



# HARRISVILLE CITY

363 West Independence • Harrisville, Utah 84404 • (801) 782-4100

MAYOR:

Michelle Tait

COUNCIL MEMBERS:

Grover Wilhelmsen  
Steve Weiss  
Blair Christensen  
Max Jackson  
Kenny Loveland

## CITY COUNCIL AGENDA

363 West Independence Blvd

October 12, 2021

Join Zoom Meeting

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Meeting ID: 827 8164 9892

Passcode: 902830

"In accordance with the Americans with Disabilities Act, the City of Harrisville will make reasonable accommodations for participation in the meeting. Request for assistance can be made by contacting the City Recorder at 801-782-4100, providing at least three working days advance notice of the meeting."

### 7:00 P.M. CITY COUNCIL MEETING

*Presiding: Mayor Michelle Tait*

*Mayor Pro Tem: Steve Weiss*

1. CALL TO ORDER
2. PLEDGE OF ALLEGIANCE & OPENING CEREMONY [Council Member Loveland]
3. OATHS OF OFFICE
4. CONSENT ITEMS
  - a. Approve the minutes of September 14, 2021 as presented.
5. BUSINESS ITEMS
  - a. Discussion/possible action to adopt Harrisville Resolution 21-13; a resolution amending an Interlocal Agreement with North Ogden City relating to sewer services by adding Montgomery Farms Subdivision. [Bill Morris]
  - b. Discussion/possible action to grant Final Approval for Montgomery Farms Phase 2; a 19- lot subdivision located at approximately 100 West 2200 North. [Bill Morris]
  - c. Discussion/possible action to grant Final Approval for Ashlar Cove Subdivision; a 23-lot subdivision located at approximately 375 West 1125 North. [Bill Morris]
  - d. Discussion/possible action to grant Final Acceptance for Sunset View Estates. [Justin Shinsel]
  - e. Discussion/possible action to approve purchase of FORMAX Shredder for Harrisville City Hall. [Cynthia Benson]
  - f. Surplus of Speed Trailer [Chief Wilson/Justin Shinsel]
  - g. Fall Festival Follow-Up [Bryan Fife/Cynthia Benson]
6. PUBLIC COMMENTS - (3 minute maximum)
7. MAYOR/COUNCIL FOLLOW-UP
8. ADJOURN

DATE POSTED: October 7, 2021

BY: Jennie Knight, City Recorder

I, Jennie Knight, certify that I am the City Recorder of Harrisville City, Utah, and that the foregoing City Council agenda was posted and can be viewed at City Hall, on the City's website [www.cityofharrisville.com](http://www.cityofharrisville.com), and at the Utah Public Notice Website at <http://pmn.utah.gov>. Notice of this meeting has also been duly provided as required by law.

**MINUTES OF HARRISVILLE CITY  
CITY COUNCIL MEETING  
September 14, 2021  
363 West Independence Blvd  
Harrisville, UT 84404**

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**Present:** Mayor Michelle Tait, Council Member Wilhelmsen, Council Member Steve Weiss, Council Member Blair Christensen, Council Member Max Jackson, Council Member Kenny Loveland.

**Staff:** Bill Morris, City Administrator, Jennie Knight, City Recorder, Cynthia Benson, Deputy City Recorder, Justin Shinsel, Public Works, Mark Wilson, Police Chief.

**Visitors:** Arnold Tait, Deanna Aguilar, Carlos Aguilar, Marcie Jenkins, John Jenkins, Dave VanBeckum, Genneva Blanchard, Mark Hansen.

**7:00 P.M. CITY COUNCIL MEETING**

**1. Call to Order.**

Mayor Tait called the meeting to order and welcomed all visitors. Council Member Wilhelmsen and Council Member Loveland were excused.

**2. Opening Ceremony.**

Council Member Weiss led the pledge of allegiance and conducted the opening ceremony.

**3. CONSENT ITEMS**

- a. Approve the minutes of August 10, 2021 as presented.

**MOTION: Council Member Weiss motioned to approve the City Council Minutes from August 10, 2021. Council Member Jackson seconded the motion. All Council Members voted aye.**

**4. BUSINESS ITEMS**

- a. **PUBLIC HEARING** – to take public comments for and against Harrisville Ordinance 529; an ordinance vacating an abandoned utility easement on Montgomery Farms Phase 2.

Bill Morris took a moment to explain to the council and those in attendance what this abandoned easement was for and where it was located within the Montgomery Farms subdivision. The easement runs through Lot 2-R within the subdivision. He explained that all the council would be approving is vacating this easement and moving it to the public utility easement.

**MOTION: Council Member Christensen motioned to open the public hearing to take comments for or against Harrisville Ordinance 529; an ordinance vacating an abandoned utility easement on Montgomery Farms Phase 2. Council Member Jackson seconded the motion.**

**A Roll Call Vote was taken.**

<b>Council Member Jackson</b>	<b>Yes</b>
<b>Council Member Christensen</b>	<b>Yes</b>
<b>Council Member Weiss</b>	<b>Yes</b>
<b>Motion passed 3-0.</b>	

Marcie Jenkins asked for clarification on where the utility easement was and where the connections will be for the new subdivision. Justin stood and answered her questions. He explained that before the homes were built, hers to the south and those to the west, there was a power pole where the utility easement is. Deanna Aguilar stood and asked for clarification on where the subdivision was actually going to be since they were unclear of which open field it would be built onto. Carlos Aguilar asked where the plans were for him to review the proposed subdivision and about the fiber optic boxes. He was told by staff that a complete set of the drawings were in the Planning Commission Packet for September 8, 2021. He was concerned about the value of his own home that borders the new subdivision. Bill told him that was not something the city would know. Geneva Blanchard stepped up, by mayoral invitation, and helped to answer some other concerns for the homeowners about whether or not there was a single-family developments or high density. She explained the whole 19 lots would be single-family homes. Geneva was also asked about a fiber optics line bordering the southern end of the property by resident John Jenkins. Both Geneva and Justin had no idea where or what that line was for or why it was not on any of the surveys or title reports. They both agreed that once Blue Stakes was completed, they would tend to that matter. Geneva added that the whole of the subdivision has been completely surveyed. Mayor addressed the residents, along with Bill Morris, to stir the conversation back to the vacation of the utility easement since that is what the public comment was to be directed to. Mark Hansen stood to clarify that the meeting was to vacate the easement and reroute it onto the road way. Mayor and Bill agreed. If the residents wished for further comment, he said he would be more than happy to stay after and answer them.

**MOTION: Council Member Jackson motioned to close the public hearing. Council Member Christensen seconded the motion. All Council Members voted aye.**

- b. Discussion/possible action to adopt Harrisville Ordinance 529; an ordinance vacating Montgomery Farms Phase 2 Utility Easement. [Bill Morris]

There was no further discussion with the council members about this ordinance. Bill verified the easement location and that the final approval would happen next month.

**MOTION: Council Member Weiss motioned to adopt Harrisville Ordinance 529; an ordinance vacating Montgomery Farms Phase 2 Utility Easement. Council Member Christensen seconded the motion.**

**A Roll Call Vote was taken.**

<b>Council Member Jackson</b>	<b>Yes</b>
<b>Council Member Christensen</b>	<b>Yes</b>
<b>Council Member Weiss</b>	<b>Yes</b>
<b>Motion passed 3-0.</b>	

- c. Discussion/possible action to approve Harrisville Resolution 21-11; Public Works Vehicle Lease Agreement. [Justin Shinsel]

Justin explained that the council did approve the purchase of two new trucks in a prior meeting. The reason he was presenting this matter again is because the leasing company wished for a verbiage change with the lease of the trucks to be changed from Ford to Chevy since they are no longer able to obtain the Ford trucks currently approved due to the truck shortage. He further stated that the new lease, which is for two years and is a bit cheaper than the prior accepted, would have a buyout option at the end of the lease.

**MOTION: Council Member Christensen motioned to approve Harrisville Resolution 21-11; Public Works Vehicle Lease Agreement. Council Member Jackson seconded the motion.**

**A Roll Call Vote was taken.**

<b>Council Member Jackson</b>	<b>Yes</b>
<b>Council Member Christensen</b>	<b>Yes</b>
<b>Council Member Weiss</b>	<b>Yes</b>

**Motion passed 3-0.**

d. Discussion/possible action to surplus Police Vehicles. [Chief Wilson]  
Chief Wilson asked for permission to surplus the two F150s when the new Ford Explorers are delivered. Mayor asked when the Explorers can be expected. Chief explained that they should be built by the end of the month. Hoping October. Council Member Jackson asked who would determine fair market value.

**MOTION: Council Member Weiss motioned to surplus Police Vehicles in accordance with the memo dated September 9, 2021. Council Member Christensen seconded the motion. All Council Members voted aye.**

**A Roll Call Vote was taken.**

<b>Council Member Jackson</b>	<b>Yes</b>
<b>Council Member Christensen</b>	<b>Yes</b>
<b>Council Member Weiss</b>	<b>Yes</b>

**Motion passed 3-0.**

e. Discussion/possible action to adopt Harrisville Ordinance 526; A-1 (Agricultural) Zone Amendments. [Bill Morris]  
Bill explained the need for this verbiage change. Currently there is a need for veterinarian clinics. He is suggesting adding the verbiage to the ordinance to allow this use in the A-1 zone if the need in our city should arise.

**MOTION: Council Member Christensen motioned to adopt Harrisville Ordinance 526; A-1 (Agricultural) Zone Amendments. Council Member Weiss seconded the motion.**

**A Roll Call Vote was taken.**

<b>Council Member Jackson</b>	<b>Yes</b>
<b>Council Member Christensen</b>	<b>Yes</b>
<b>Council Member Weiss</b>	<b>Yes</b>

**Motion passed 3-0.**

f. Discussion/possible action to adopt Harrisville Ordinance 527; Internal Accessory Dwelling Unit Regulations. [Bill Morris]  
Bill explained that in the state legislature they adopted House Bill 86 that requires cities to allow Internal Accessory Dwelling Units (ADU) within a current dwelling to help alleviate the housing shortage. This is not for an accessory unit as an external unit or additional building on a property. In order for the city to regulate this state code we needed to adopt an ordinance to do so. He read through the ordinance to further clarify what the ordinance will include. An example he gave was converting an attached garage to a main dwelling into an ADU. This is allowed as long as the parking spaces lost by the conversion are reestablished. He further read through the ordinance to explain the individual line items within along with which city zones would allow the ADU. He finished with a business license is required for any ADU. Mayor asked for clarification by stating they couldn't rent out both top and bottom of their house. They would have to live in one or the other for the unit to be considered an ADU. Bill agreed. Council Member Christensen asked for clarification on Airbnb. Bill confirmed that this ordinance doesn't regulate that use.

**MOTION: Council Member Jackson motioned to adopt Harrisville Ordinance 527; Internal Accessory Dwelling Unit Regulations. Council Member Christensen seconded the motion.**

**A Roll Call Vote was taken.**

<b>Council Member Jackson</b>	<b>Yes</b>
<b>Council Member Christensen</b>	<b>Yes</b>
<b>Council Member Weiss</b>	<b>Yes</b>

**Motion passed 3-0.**

**g.** Discussion/possible action to adopt Harrisville Resolution 21-12; Department Head Personnel Policy Amendments. [Bill Morris]

Bill explained that this came about after issues with department head matters this past year. The verbiage change is in regards to the severance package. A severance is there for the terminated employee to have time to find a new job. However, if there is cause then they would not be eligible for severance.

**MOTION: Council Member Weiss motioned to adopt Harrisville Resolution 21-12; Department Head Personnel Policy Amendments. Council Member Christensen seconded the motion.**

**A Roll Call Vote was taken.**

<b>Council Member Jackson</b>	<b>Yes</b>
<b>Council Member Christensen</b>	<b>Yes</b>
<b>Council Member Weiss</b>	<b>Yes</b>

**Motion passed 3-0.**

#### **5. PUBLIC COMMENTS - (3 minute maximum)**

Dave Vanbeckum lives on the corner on 225 west. He had Glen come out to look at his driveway approach. The city already did an asphalt cut before his driveway approach to deal with a settling issue. He is concerned about the pitting on the cement in his approach and thinks his driveway situation is not normal compared to the others in his neighborhood. He is asking if it is possible for the city to replace his approach. He is asking since his driveway is the only one showing the signs of the pitting and wear. He feels it was due to his home being on the corner and a build-up of snow occurs every year along with standing water. Council asked if Justin was aware. Justin said he was aware of the situation and would have a further discussion with staff on how best to handle it.

#### **6. MAYOR/COUNCIL FOLLOW-UP**

Mayor mentioned the training for the League Conference on September 29-October 1. If any member of the council would like to attend to please tell Jennie as soon as possible for her to register them.

Council Member Christensen had a call complaining about the traffic at the soccer fields. The traffic is blocking driveways and mailboxes. Wanted to bring it up to see if there is something we can do about it. He wasn't aware of who was even using the field to cause the issue. Bill did mention that the AYSO is short on play fields due to COVID. Matter to be looked into by Bryan to see if AYSO is using the field and thus causing the issue.

Council Member Weiss asked if we could have the developer for the Ben Lomond development to come and explain why they are behind with starting the development. Bill explained there were complications with title and closing that arose. He also stated that he has been in contact

with the developer's lawyer discussing the issues. They are also looking for builders to complete each phase along with the materials to complete the development. Bill also explained there was also an issue with one of the members of their team trying to change the stipulations of the MDA. Council Member Weiss reiterated his desire to discuss why the delay.

- 7. CLOSED EXECUTIVE SESSION:** Utah State Code §52-4-205(1)(a): The Council may consider a motion to enter into Closed Executive Session for the purpose of discussion of character, professional competence, or physical or mental health of individuals(s).

**MOTION: Council Member Weiss motioned to open the Closed Executive Session for the purpose of discussion of character, professional competence, or physical or mental health of individuals(s). Council Member Christensen seconded the motion.**

**A Roll Call Vote was taken.**

<b>Council Member Jackson</b>	<b>Yes</b>
<b>Council Member Christensen</b>	<b>Yes</b>
<b>Council Member Weiss</b>	<b>Yes</b>
<b>Motion passed 3-0.</b>	

Mayor and Council convened into a Closed Executive Session.

**MOTION: Council Member Weiss motioned to close the Closed Executive Session for the purpose of discussion of character, professional competence, or physical or mental health of individuals(s). Council Member Christensen seconded the motion.**

**A Roll Call Vote was taken.**

<b>Council Member Jackson</b>	<b>Yes</b>
<b>Council Member Christensen</b>	<b>Yes</b>
<b>Council Member Weiss</b>	<b>Yes</b>
<b>Motion passed 3-0.</b>	

## **8. ADJOURN**

Mayor Tait declared the meeting adjourned at 8:20 p.m.

**ATTEST:**

\_\_\_\_\_  
**MICHELLE TAIT**  
Mayor

\_\_\_\_\_  
**JENNIE KNIGHT**

City Recorder

Approved this 12<sup>th</sup> day of October, 2021



# HARRISVILLE CITY

363 West Independence • Harrisville, Utah 84404 • (801) 782-4100

MAYOR:

Michelle N. Tait

COUNCIL MEMBERS:

Grover Wilhelmsen  
Steve Weiss  
Blair Christensen  
Max Jackson  
Kenny Loveland

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## MEMORANDUM

TO: Harrisville Mayor and City Council

FROM: Justin Shinsel, Public Works

RE: Harrisville Resolution 21-13; a resolution amending an Interlocal Agreement with North Ogden City relating to sewer services by adding Montgomery Farms Subdivision.

Date: October 5, 2021

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The proposed Harrisville Resolution 21-13; a resolution amending an Interlocal Agreement with North Ogden City relating to sewer services by adding Montgomery Farms Subdivision, is being presented to the Harrisville City Council to handle the sanitation needs of eight (8) lots within the proposed subdivision.

The original agreement proposed that the 11 lots in the Hidden Willow Subdivision be provided with 8-inch diameter gravity flow sanitary sewer service by connection to the 8-inch sanitary sewer system in the Harrisville City Hidden Willow West Subdivision. The connection shall be provided with a North Ogden City standard sewer manhole located on 2150 North Street on the common corporate North Ogden City/Harrisville City boundary line which crosses 2150 North Street. The current amendment would include the handling of the sanitation requirements for the eight (8) lots within Montgomery Farms as well.

### SUMMARY

1. The parties intend by this Agreement to cooperatively develop a working relationship to accommodate the sewer requirements of the Hidden Willow, Hidden Willow West, and Montgomery Farms Subdivisions. The parties anticipate that this planning effort will help to control sewer water outflows and will benefit both cities and the residents of the subdivisions in accordance with the City's Master Plans.
2. Lots in Montgomery Farms are situation such that any gravity sewer lines will require substantial reworking of the storm water and other utilities in the area. The landowner proposed to install a gravity feed system which will flow directly into the Harrisville system.

3. Lots in Montgomery Farms will be subject to all the provisions (1 through 10) in relation to maintenance, fees, and other provisions as outlined in the original 2006 agreement.
4. Under the Utah Code 11-13-207 the following conditions are approved;
  - a. this agreement shall be administered by the mayors of both cities.
  - b. Each city shall retain ownership of their separate real and personal property as outlined above
  - c. The function is the providing of sewer services for certain lots in North Ogden City
  - d. The joint board shall have the power to enforce and manage this agreement, with the limitation that the Agreement can only be amended in writing by each city council.

Staff brings forward a positive recommendation to recommend adoption of Harrisville Resolution 21-13; a resolution amending an Interlocal Agreement with North Ogden City relating to sewer services by adding Montgomery Farms Subdivision.



**HARRISVILLE CITY  
RESOLUTION #21-13**

**A RESOLUTION AMENDING AN INTERLOCAL AGREEMENT  
BETWEEN HARRISVILLE CITY AND NORTH OGDEN CITY RELATING TO  
THE SEWER SERVICE AT HIDDEN WILLOW AND HIDDEN WILLOW WEST  
SUBDIVISIONS BY ADDING THE MONTGOMERY FARMS SUBDIVISIONS.**

**WHEREAS**, the Utah Interlocal Cooperation Act, Title 11, Chapter 3, Utah Code Annotated, 1953 as amended, permits governmental units to enter into agreements with one another for the purpose of exercising on a joint and cooperative basis powers and privileges that will benefit their citizens and make the most efficient use of their resources; and

**WHEREAS**, Title 11, Chapter 13, Section 5 of the Utah Code Annotated, 1953 as amended, requires that governing bodies of governmental units adopt resolutions approving an interlocal agreement before such agreements may become effective; and

**WHEREAS**, Harrisville City and North Ogden City have negotiated an AMENDMENT to the Interlocal Agreement for the purpose of providing sewer services to the Hidden Willow and Hidden Willow West Subdivisions by adding the Montgomery Farms Subdivisions;

**WHEREAS**, Harrisville City and North Ogden City find that mutual benefit and cost-effective government can be achieved through this amended interlocal agreement for the services entailed herein;

**NOW, THEREFORE, BE IT RESOLVED** by the Mayor and City Council of Harrisville City that the attached Interlocal Agreement is entered into with North Ogden City for the purpose of sewer services as authorized in the Interlocal Agreement, and the Interlocal Agreement is hereby approved and incorporated by this reference. The Council hereby authorizes and directs the Mayor to execute the Interlocal Agreement for and on behalf of Harrisville City.

PASSED AND APPROVED by the Harrisville City Council this 12<sup>th</sup> day of October, 2021.

\_\_\_\_\_  
MICHELLE TAIT  
Mayor, Harrisville City

ATTEST:

\_\_\_\_\_  
JENNIE KNIGHT  
City Recorder

Municipal Vote Tally :	Yes	No
Council Member Wilhelmsen	___	___
Council Member Weiss	___	___
Council Member Christensen	___	___
Council Member Jackson	___	___
Council Member Loveland	___	___

**AMENDMENT TO A 2006 INTERLOCAL AGREEMENT RELATING TO THE SEWER SERVICE AT HIDDEN WILLOW AND HIDDEN WILLOW WEST SUBDIVISIONS BY ADDING THE MONTGOMERY FARMS SUBDIVISIONS TO THE AGREEMENT**

THIS AMENDMENT TO THE 2006 AGREEMENT made effective this \_\_\_\_ day of September, 2021, is entered into by and between North Ogden City and Harrisville City.

**RECITALS**

**WHEREAS**, the Utah Interlocal Cooperation Act, Title 11, Chapter 13, Utah Code Annotated 1953, as amended, permits public agencies to enter into agreements with one another for the purpose of exercising, on a joint and cooperative basis, powers and privileges that will benefit their citizens and make the most efficient use of their resources; and,

**WHEREAS**, all of the parties hereto are public agencies as defined by the Interlocal Cooperation Act;

**WHEREAS**, both Cities are municipal corporations duly organized under Title 10 of Utah Code Annotated, as amended;

**WHEREAS**, in accordance with federal and state laws and regulations, both Cities, as operators of sanitary sewer systems, desire to implement certain agreements and control measures and provide adequate sewer service to their citizens;

**WHEREAS**, both Cities desire to work cooperatively to comply with the relevant federal and state regulations, and to provide a cost efficient and effective sanitary sewer program;

**WHEREAS**, the Cities entered into an agreement dated July 25, 2006 allowing for the collection of sanitary sewer from the Hidden Willow and Hidden Willow West subdivisions;

**WHEREAS**, the Cities desire to extend this agreement for the purpose of handling eight (8) additional lots in the Montgomery Farms Subdivision;

**NOW, THEREFORE**, for the reasons cited above, and in consideration of the mutual covenants and agreements contained herein, North Ogden City and Harrisville City do mutually agree and undertake as follows:

**SECTION ONE  
SCOPE OF AGREEMENT**

1. The parties intend by this Agreement to cooperatively develop a working relationship to accommodate the sewer requirements of the Hidden Willow, Hidden Willow West, and Montgomery Farms Subdivisions. The parties anticipate that this planning effort will help to control sewer water outflows and will benefit both cities and the residents of the subdivisions in accordance with the City's Master Plans.

2. The westerly 11 lots in the Hidden Willow Subdivision (lots 1-5 and lots 11-16) are topographically too low in elevation to have gravity sanitary sewer service through the proposed North Ogden City sanitary sewer collection system. The lots in question are approximately located at 2150 North and 100 East Streets. (See Exhibit "A")
3. The Hidden Willow West Subdivision in Harrisville City proposes to construct a gravity flow sanitary sewer system on 2150 North Street with sufficient depth to provide gravity flow sanitary sewer service to the lots identified in item #2 above.
4. It is proposed that the 11 lots in the Hidden Willow Subdivision be provided with 8-inch diameter gravity flow sanitary sewer service by connection to the 8--inch sanitary sewer system in the Harrisville City Hidden Willow West Subdivision. The connection shall be provided with a North Ogden City standard sewer manhole located on 2150 North Street on the common corporate North Ogden City/Harrisville City boundary line which crosses 2150 North Street. (See Exhibit "A")
5. North Ogden City will be responsible to own, operate and maintain all sewer collection lines in the Hidden Willow Subdivision including that portion which flows into and connects to the Harrisville City sewer system on 2150 North Street. North Ogden City operation and maintenance responsibilities will begin at the sewer manhole on the common corporate boundary line on 2150 North and proceed east throughout the entire Hidden Willow Subdivision.
6. North Ogden City will collect sanitary sewer impact fees from the associated building permit fees of the 11 lots covered by this agreement. These impact fees will be transmitted to Harrisville City as compensation for receiving and transporting collected sewage through the Harrisville City sewer system to the Central Weber Sewer District outfall mains.
7. North Ogden City will collect and retain all monthly sanitary sewer service fees to pay for treatment costs from the Central Weber Sewer District and to pay for the cost of North Ogden City to operation and maintain the sewer system within the corporate boundaries of the City.
8. The North Ogden City Engineer will review and approve the proposed construction plans for the sewer connection and coordinate the design with the proposed sewer system in Harrisville City. The North Ogden City Public Works Inspector shall review all construction of the collection system and provide Harrisville City with a written confirmation that the collection system has been constructed to North Ogden City standards and meets or exceeds all infiltration requirements.
9. North Ogden City will be responsible for the quantity of flow generated from the 11 lots in the Hidden Willow Subdivision. If the quantity generated exceeds State of Utah design flow standards (through the connection of unauthorized drainage systems) and these increased flows have a negative impact on the Harrisville City collection system, then North Ogden City will be responsible to identify these land drainage connections and have them eliminated from flowing into the Harrisville City sewer collection system.

10. Lots #XX in Montgomery Farms are situation such that any gravity sewer lines will require substantial reworking of the storm water and other utilities in the area. The landowner proposed to install a gravity feed system which will flow directly into the Harrisville system.

11. Lots in Montgomery Farms will be subject to all the above provisions (1 through 10) in relation to maintenance, fees, and other provisions as outlined in the original 2006 agreement.

## SECTION TWO GENERAL PROVISIONS

1. Termination. Either party upon ninety (90) days written notice may terminate this Agreement.

2. Effective Date. This Agreement shall become effective upon compliance with state law governing interlocal cooperation agreements and upon ratification by the parties as provided U.C.A. § Section 11-13-10, as amended.

3. Amendment. This Interlocal Agreement may be changed, modified, or amended by written agreement of the participants, upon adoption of appropriate resolutions from the Cities, along with an approved as to form by the City Attorneys, and upon meeting all other applicable requirements of the Interlocal Cooperation Act.

4. Entire Agreement. This Agreement, together with any written amendments, shall constitute the entire agreement between the parties and any prior understanding or representation of any kind preceding the date of this Agreement shall not be binding upon either party except for the resolutions of each party herein attached and incorporated by reference.

5. Indemnification. In all instances, each of the parties agrees to defend, hold harmless, and indemnify the other party, its elected officials, officers, employees, agents, and volunteers, for the wrongful or negligent acts or omissions of employees against any and all liabilities, claims, damages, actions, suits, proceedings, costs and expenses which arise by reason of this Agreement, however, in no event shall indemnification exceed the amount set forth in *Utah Code Ann.* § 63-30-1 et. seq, at the time of judgment.

6. Employee Status. It is understood and agreed by the parties that any and all personnel furnished by the parties shall remain employees of the respective parties and shall abide by the personnel policies of the respective parties.

7. Warranties. Each party represents and warrants that it is a public agency within the meaning of the Interlocal Cooperation Act, is authorized to execute and deliver this Agreement and there is no litigation, legal action or investigation between the parties that would adversely effect this Agreement.

8. Documents on File. Executed copies of this Agreement shall be placed on file in the office of the City Recorders and shall remain on file for public inspection for the duration of this Agreement.

9. Governing Law. It is understood and agreed by the parties that this Agreement shall be governed by the laws of the State of Utah as to interpretation and performance.

10. Non-transferable. These rights, duties, powers and obligations of this Agreement may not be transferred, assigned or delegated without the consent of the parties.

11. Rules of Construction and Severability. Standard rules of construction, as well as the context of this agreement, shall be used to determine the meaning of the provisions herein, except as follows: If any of the provisions herein are different from what is normally allowed or required by law, every effort shall be made to construe the clauses to be legally binding and to infer voluntary arrangements which are in addition to what is normally allowed or required by law. If any provision, article, sentence, clause, phrase, or portion of this agreement, including but not limited to any written amendments, is for any reason held to be invalid or unconstitutional by the decision of any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this agreement. It is thus the intention of the parties that each provision of this agreement shall be deemed independent of all other provisions herein.

12. Under the Utah Code 11-13-207 the following conditions are approved

- a. this agreement shall be administered by the mayors of both cities.
- b. Each city shall retain ownership of their separate real and personal property as outlined above
- c. The function is the providing of sewer services for certain lots in North Ogden City
- d. The joint board shall have the power to enforce and manage this agreement, with the limitation that the Agreement can only be amended in writing by each city council.

Dated this \_\_\_\_ day of September, 2021

For Harrisville City

\_\_\_\_\_  
Mayor, Harrisville City

\_\_\_\_\_  
Harrisville City Attorney

For North Ogden City

\_\_\_\_\_  
Mayor, North Ogden City

\_\_\_\_\_  
North Ogden City Attorney



# HARRISVILLE CITY

363 West Independence • Harrisville, Utah 84404 • (801) 782-4100

MAYOR:

Michelle N. Tait

COUNCIL MEMBERS:

Grover Wilhelmsen  
Steve Weiss  
Blair Christensen  
Max Jackson  
Kenny Loveland

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## MEMORANDUM

TO: Harrisville Mayor and City Council

FROM: Cynthia Benson, Deputy Recorder

RE: Final Approval for Montgomery Farms Phase 2; a 19- lot subdivision located at approximately 100 West 2200 North

Date: October 5, 2021

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The proposed Final Approval for Montgomery Farms Phase 2; a 19- lot subdivision located at approximately 100 West 2200 North, comes with a positive recommendation from the Planning Commission meeting held on September 8, 2021 with the following conditions added;

### **SUMMARY from Engineer's Memo dated September 2, 2021:**

We have found the plans to be in conformance with applicable City standards and previous comments and recommendations from our office have been addressed. We therefore recommend final approval of the plat and improvement drawings at this time. The following final approval processing items will need to be completed before construction begins:

1. Obtain approval of the plat and survey monument locations from the Weber County Surveyor.
2. Complete a Storm Water Pollution Prevention Plan (SWPPP), file a Notice of Intent (NOI) with the State, and obtain a Stormwater Activity Permit from the City before any construction begins.
3. Prepare an engineer's estimate for the cost of the public improvements and send it over for review. This estimate needs to be approved before the pre-construction meeting and will be the basis for the developer's agreement and the associated construction guarantee.
4. The final set of plans will have a "City Engineer Acceptance" stamp and will be the only set of plans to be used during construction.
5. Prior to construction, the Developer and the Contractor must hold a pre-construction meeting with City staff to review construction requirements.
6. A Developer's Agreement

- a. *A standard subdivision development agreement will be completed at time of recording since the development is not annexing into the Four-Mile Special District.*
- 7. An Interlocal Agreement with North Ogden for sewer services to service eight (8) lots within Montgomery Farms.
  - a. *Harrisville Resolution 21-13; a resolution amending an Interlocal Agreement with North Ogden City relating to sewer services by adding eight (8) lots in Montgomery Farms Subdivision is being presented for adoption at City Council, October 12, 2021.*

Staff brings forward a positive recommendation for Final Approval for Montgomery Farms Phase 2; a 19- lot subdivision located at approximately 100 West 2200 North, based of all stipulations within the Engineer Memo dated September 2, 2021 and the recommendations from Planning Commission, dated September 8, 2021, have been completed or are in the process of being completed.

# MEMORANDUM



CONSULTING ENGINEERS

---

TO: Harrisville City Council

FROM: Matthew L. Robertson, P.E.  
City Engineer

RE: **MONTGOMERY FARMS PHASE 2 SUBDIVISION**  
**Final Plat and Improvement Drawings**

Date: October 7, 2021

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Our office has completed a review of the final plat and improvement plans for the Montgomery Farms Phase 2 Subdivision located at approximately 100 West 2200 North. This property is zoned R-1-10 and will have 19 new residential lots. One unique issue with this development is that 8 new residential lots in North Ogden will connect to the Harrisville City sewer collection system due to elevation and utility conflicts in North Ogden. An agreement to compensate Harrisville City for taking these connections is being amended to include these new connections.

We have found the plans to be in conformance with applicable City standards and previous comments and recommendations from our office have been addressed. We therefore recommend final approval of the plat and improvement drawings at this time. The following final approval processing items will need to be completed before construction begins:

1. Obtain final approval of the plat and survey monument locations from the Weber County Surveyor.
2. Complete a Storm Water Pollution Prevention Plan (SWPPP), file a Notice of Intent (NOI) with the State, and obtain a Stormwater Activity Permit from the City before any construction begins.
3. Prepare an engineer's estimate for the cost of the public improvements and send it over for review. This estimate needs to be approved before the pre-construction meeting and will be the basis for the developer's agreement and the associated construction guarantee.
4. The final set of plans will have a "City Engineer Acceptance" stamp and will be the only set of plans to be used during construction.
5. Prior to construction, the Developer and the Contractor must hold a pre-construction meeting with City staff to review construction requirements.

Please let me know if you have any questions.

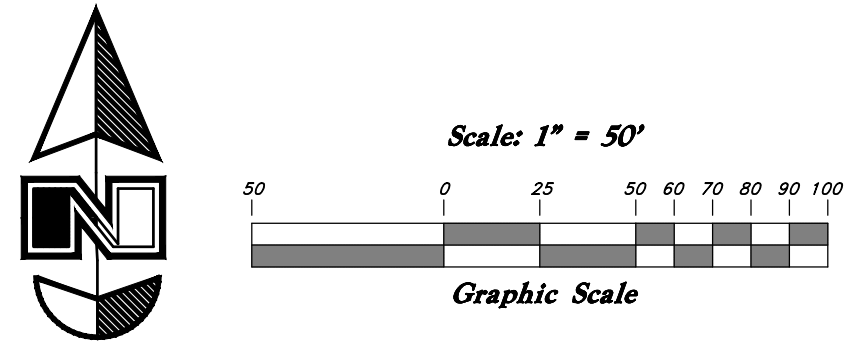


# Montgomery Farms Phase 2

A part of Section 32, T7N, R1W, SLB&M, U.S. Survey  
Harrisville City, Weber County, Utah  
August 2021

**SURVEYOR'S CERTIFICATE**  
I, Andy Hubbard, do hereby certify that I am a Professional Land Surveyor in the State of Utah, and that I hold Certificate No. 6242920 in accordance with Title 58, Chapter 22, of the Professional Engineers and Professional Land Surveyors Licensing Act. I also certify that I have completed a survey of the property described hereon in accordance with Section 17-23-17 and that I have verified all measurements shown hereon this plat of Montgomery Farms - Phase 2 in Harrisville City, Weber County, Utah and that it has been correctly drawn to the designated scale and is a true and correct representation of the following description of lands included in said subdivision, based on data compiled from records in the Weber County Recorder's Office. Monuments have been found or placed as represented on this plat.

Signed this \_\_\_\_\_ day of \_\_\_\_\_, 2021.



### BOUNDARY DESCRIPTION

A part of the South Half of Section 32, Township 7 North, Range 1 West, Salt Lake Base and Meridian  
Beginning at a the Southwest corner of The Towns at Patriot Point Subdivision Phase 2, (Weber County Recorder's Book 90 Pages 017-018), said point being 345.56 feet North 87°39'06" West along the Section line to said Subdivision and 289.39 feet South 1°29'49" East from the Center of the said Section 32; and running thence South 89°34'25" East 33.15 feet along said South Boundary and the South Boundary Line of The Towns at Patriot Point Subdivision Phase 1A, (Weber County Recorder's Book 90 Pages 015-016) to the Corporate limits of Harrisville City; thence along the said Corporate limits the following three (3) courses: (1) South 0°00'31" West 133.98 feet, (2) North 89°59'29" West 36.62 feet, and (3) South 0°05'46" West 132.17 feet to the Northern Boundary line of Hidden Willow Estates Subdivision First Amendment (Weber County Recorder's Book 68 Pages 096-097); thence along said Subdivision and Hidden Willow Estates West Subdivision (Weber County Recorder's Book 64 Page 085) South 89°22'36" West 1094.72 to the East Boundary line of Wildflower Estates Phase No. 4, (Weber County Recorder's Book 73 Pages 035); thence North 04°24'19" East 296.50 feet along said East Boundary line to an existing fence; thence along said fence (being the record position of Entry No. 2665681) South 89°37'43" East 1,075.35 feet to the West Boundary line of said The Towns at Patriot Point Subdivision Phase 2; thence South 01°29'49" East 10.35 feet along said West Boundary line to the POINT OF BEGINNING.  
Containing 7.2312 Acres.

### OWNER'S DEDICATION

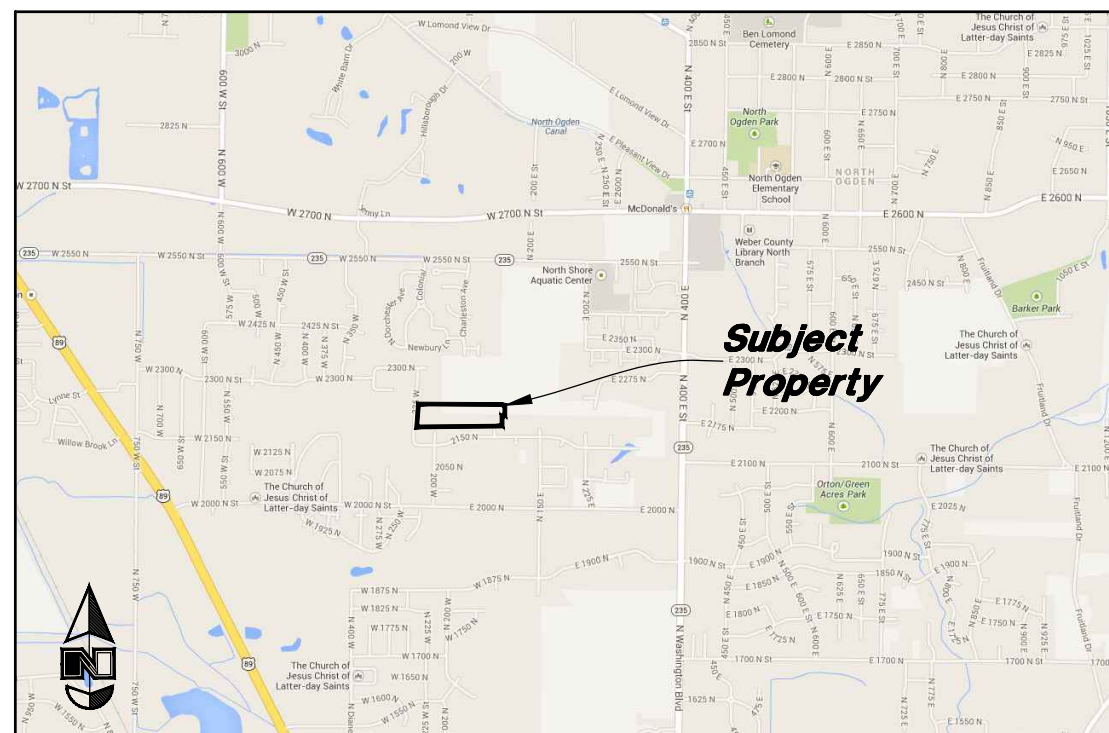
We, the undersigned owner of the hereon described tract of land, hereby set apart and subdivide the same into Lots, Common Areas and Streets as shown on this plat, and name said tract Montgomery Farms - Phase 2, and hereby dedicate, grant, and convey to the Owners Association, all those parts or portions of said tract of land designated as Common Area. I also hereby dedicate to Harrisville City, Weber County, Utah all those portions of said tract of land designated as Streets, the same to be used as public thoroughfares forever, and also hereby dedicate and grant to Harrisville City those parts or portions of said tract designated as Common Area for public utility, drainage, and stormwater management purposes as shown hereon, the same to be used for the installation, maintenance and operation of public utility service lines, drainage and stormwater detention, as may be authorized by Harrisville City.

Signed this \_\_\_\_\_ day of \_\_\_\_\_, 2021.

Montgomery Farms LLC  
John W Hansen - Manager

6242920  
License No. Andy Hubbard

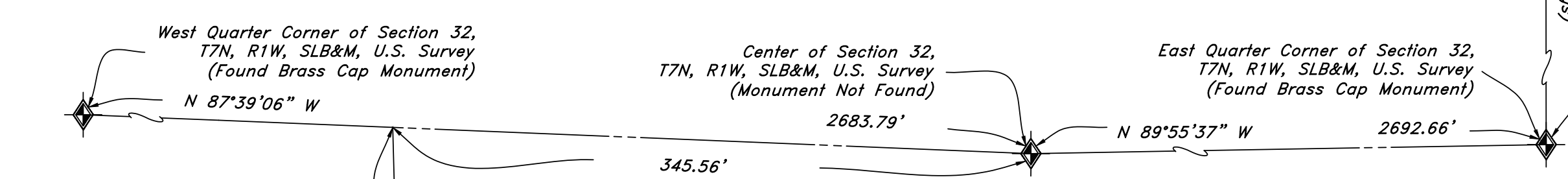
Northeast Corner of Section 32,  
T7N, R1W, SLB&M, U.S. Survey  
(Found Brass Cap Monument)



VICINITY MAP  
Not to Scale

### NARRATIVE

This Annexation Plat was requested by Mr. John W. Hansen for the purpose of subdividing said parcel into 19 lots  
Brass Cap Monuments were found at the Northeast Corner and East Quarter Corner of Section 32, T7N, R1W, SLB&M. A line with the bearing of North 87°39'06" West between the Brass Cap Monuments was used as the Basis of Bearings for this plat.  
Record Bearing and distances were held for areas adjoining existing Harrisville and North Ogden City limits. The Northern city boundary was placed on along the property boundary see record of survey filed with the County for more information.

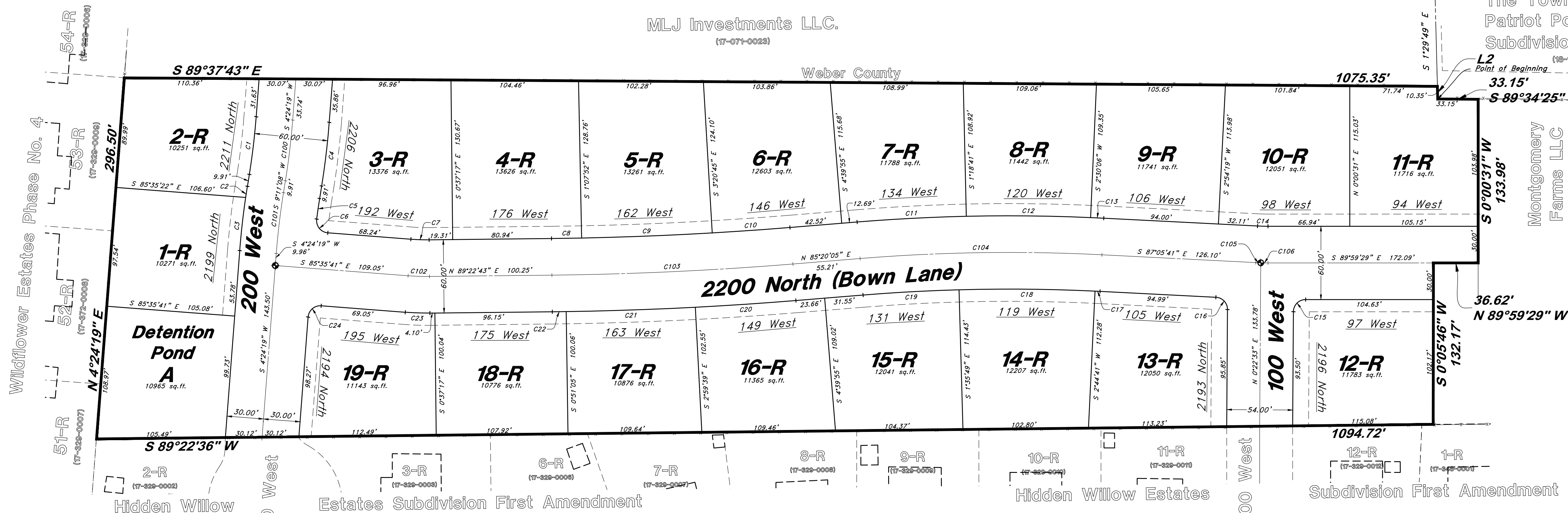


CENTERLINE CURVE DATA					
Curve	Delta	Radius	Length	Chord	Chord Bearing
C100	4°46'49"	600.00'	50.06'	50.04'	S 6°47'43" W
C101	4°46'49"	600.00'	50.06'	50.04'	S 6°47'43" W
C102	5°01'38"	189.97'	17.55'	17.54'	S 88°06'29" E
C103	4°02'39"	2800.00'	197.63'	197.59'	N 87°21'24" E
C104	7°34'14"	1500.00'	198.20'	198.05'	N 89°07'12" E
C105	2°53'48"	82.27'	4.16'	4.16'	S 87°41'26" E
C106	2°53'48"	117.74'	5.95'	5.95'	S 89°08'20" E

PROPERTY LINE CURVE DATA					
Curve	Delta	Radius	Length	Chord	Chord Bearing
C1	4°46'49"	570.00'	47.56'	47.54'	N 6°47'43" E
C2	0°47'55"	630.00'	8.78'	8.78'	N 8°47'11" E
C3	3°58'54"	630.00'	43.78'	43.77'	N 6°23'46" E
C4	4°46'49"	630.00'	52.56'	52.55'	N 6°47'43" E
C5	1°42'17"	570.00'	16.96'	16.96'	N 8°19'59" E
C6	93°04'31"	10.00'	16.24'	14.52'	N 39°03'25" W
C7	5°01'36"	170.00'	14.91'	14.91'	N 88°06'29" W
C8	0°30'35"	2770.00'	24.65'	24.64'	S 89°07'26" W
C9	2°12'53"	2770.00'	107.07'	107.06'	S 87°45'42" W
C10	1°19'10"	2770.00'	63.80'	63.79'	S 85°59'40" W
C11	3°21'14"	1530.00'	89.56'	89.55'	S 87°00'42" W
C12	3°48'47"	1530.00'	101.82'	101.80'	N 89°24'18" W
C13	0°24'13"	1530.00'	10.78'	10.78'	N 87°17'48" W
C14	2°53'48"	170.00'	8.59'	8.59'	N 88°32'35" W
C15	89°37'58"	10.00'	15.65'	14.10'	N 45°10'43" E

### Legend

- Monument to be set
- Found Centerline Monument (Rad.) Radial Line (N/R) Non-Radial Line
- PUE Public Utility Easement
- PU&DE Public Utility & Drainage Easement
- Buildable Area
- Pathway
- Fence
- Fault Setback
- Fault
- Easement
- Access & Utility Easement
- Buildable area
- Existing Boundary
- Set Hub & Tack
- A will be set Nail in Curb
- Extension of Property
- Set 5/8"x 24" Long Rebar & Cap w/ Lathe



**NOTE**  
1. 10' wide Public Utility and Drainage Easements (P.U.&D.E.) on front lot lines as indicated by dashed lines except as otherwise shown.  
2. All Lots Shown with a -R designation are (RESTRICTED LOT) "Based upon high ground water conditions, the lowest habitable floor level on this lot is restricted to an elevation which is one (1) foot below the curb and gutter fronting the lot. The curb elevation reference point shall be the lowest top back of curb elevation on the lot frontage."

**HARRISVILLE CITY APPROVALS**  
This plat was approved by the City Engineer and the Community Development Director.  
City Engineer \_\_\_\_\_ Date \_\_\_\_\_  
Planning Director \_\_\_\_\_ Date \_\_\_\_\_

**HARRISVILLE CITY ATTORNEY**  
I certify that the requirements of all applicable statutes and ordinances prerequisite by the state of Utah and the ordinances of Harrisville of the foregoing plat and dedications have been complied with.  
Signed this \_\_\_\_\_ day of \_\_\_\_\_, 2021.  
City Attorney \_\_\_\_\_

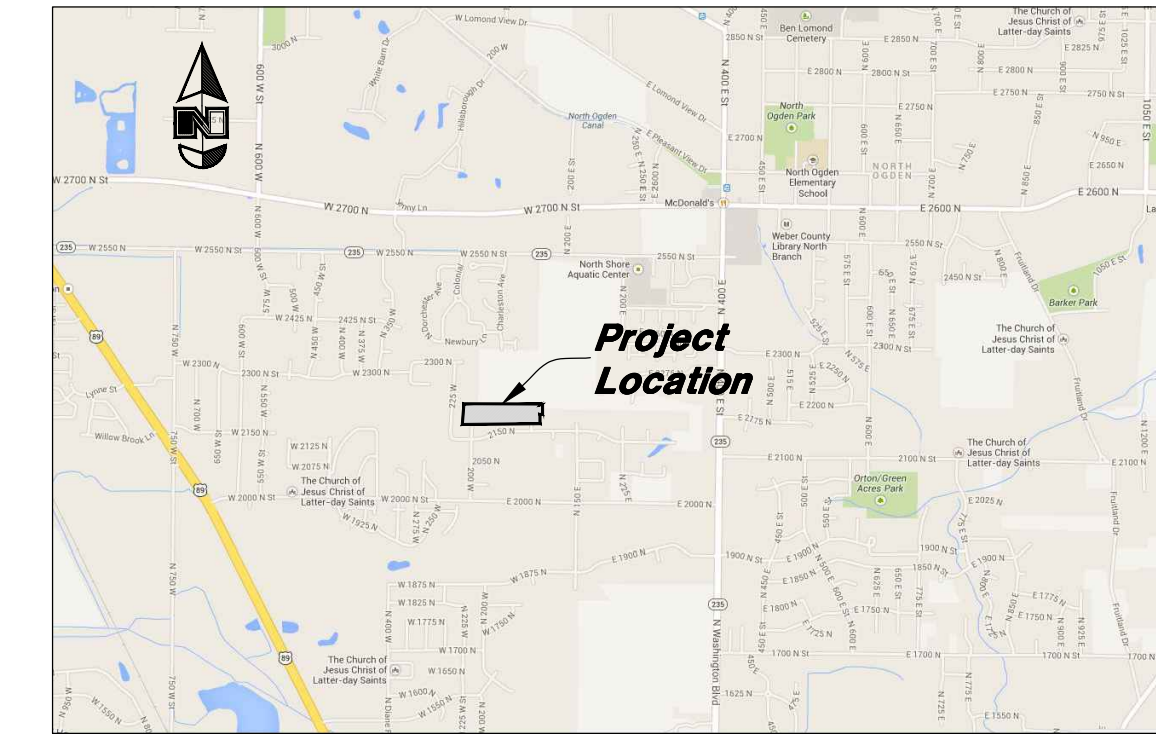
**LAND USE AUTHORITY**  
This is to certify that this plat and the dedication of this plat along with the dedication of all easements were duly approved and accepted by the Land Use Authority of Harrisville City this \_\_\_\_\_ day of \_\_\_\_\_, 2020.  
by: \_\_\_\_\_ Chairman  
Attest: \_\_\_\_\_ Secretary

**ACKNOWLEDGMENT**  
State of Utah } ss  
County of \_\_\_\_\_  
The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 2021 by John W. Hansen - Manager.  
Residing At: \_\_\_\_\_  
Commission Number: \_\_\_\_\_ A Notary Public commissioned in Utah  
Commission Expires: \_\_\_\_\_  
Print Name \_\_\_\_\_

**WEBER COUNTY RECORDER**  
ENTRY NO. \_\_\_\_\_ FEE PAID \_\_\_\_\_  
RECORDED \_\_\_\_\_ FILED FOR RECORD AND AT \_\_\_\_\_  
IN BOOK \_\_\_\_\_ OF OFFICIAL RECORDS, PAGE \_\_\_\_\_, RECORDED FOR \_\_\_\_\_  
WEBER COUNTY RECORDER  
DEPUTY \_\_\_\_\_

# Montgomery Farms Subdivision Phase 2

A part of Section 32, T7N, R1W, SLB&M, U.S. Survey  
 Harrisville City, Weber County, Utah  
 June 2021



VICINITY MAP  
 Not to Scale

### GENERAL NOTES:

1. All construction must meet or exceed Harrisville City Standards and Specifications.
2. All Culinary water lines and services to meet or exceed Bona Vista water standards and expectations.
3. Verify the Depth & Location of all utility crossings & connections prior to their Construction.
4. Contractor is responsible for Looping Culinary and Secondary Waterlines to Maintain depth of cover and separation between gravity fed utility lines.
5. Saw Cut existing Asphalt to expose a smooth clean edge and a minimum 1 foot of undisturbed road base from under existing asphalt.
6. 3/4" Culinary Water Laterals to be installed as shown on drawing, and extended 15.0 feet beyond property line.
7. 4" Sanitary Sewer Laterals to be installed on the lower end of lot and Extended 10.0' beyond right-of-way line.
8. Field verify size & type of exist. utilities prior to construction of laterals.
9. Field verify and adjust curb to maintain a minimum of 1.5% and a maximum of 4.0% cross slope or overlay existing asphalt to ensure proper drainage.
10. Import fill required for trenches within the Right of Way unless on site material is approved by City Engineer with proper testing.
11. All work on Culinary Water System needs to be to Bona Vista Water Standards.
12. All Water Laterals to be 3/4" diameter.

### 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 Bona Vista 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, and as to Bona Vista Standards. 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/Root Drain down spout connections to Storm Water System with Civil, Plumbing & Architectural plans. Notify Engineer of any discrepancies.
10. 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

1. 3/4" diameter pipe - copper tube ASTM B, Type K, Soft Temper

### WATER MAIN LINES AND FIRE LINES

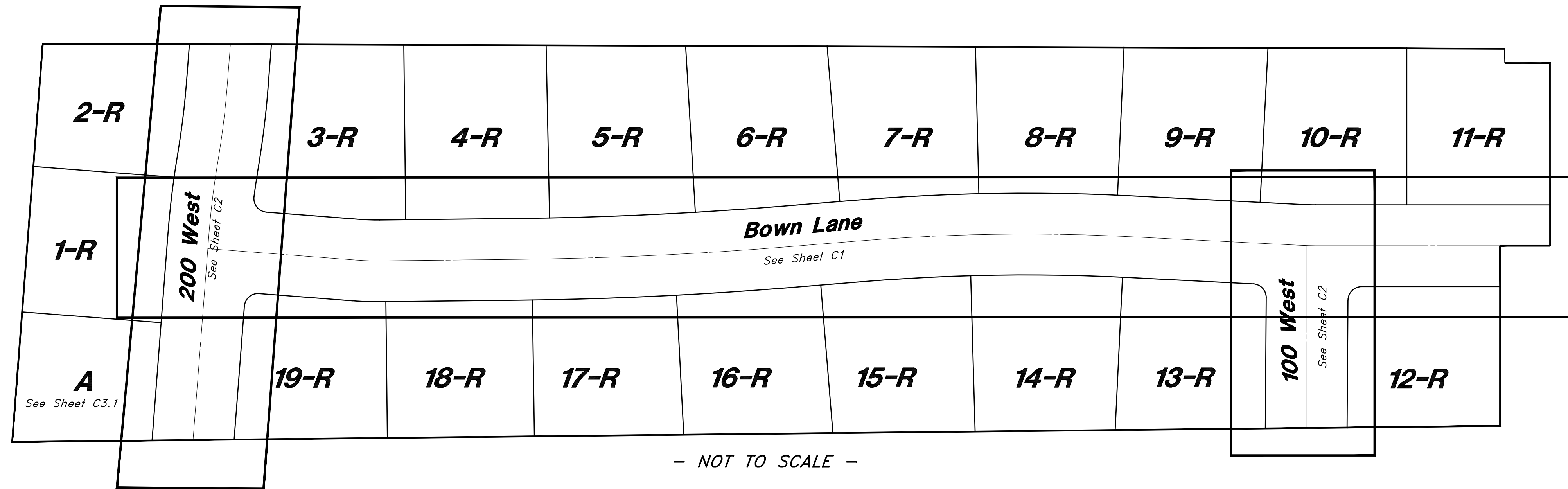
1. Pipe material as shown on utility plan view or to meet Bona Vista standards  
 Culinary Lines shall be C-900 Blue Pipe DR-18 and Secondary Lines shall be Purple Pipe C-900 DR-18.

### SANITARY SEWER LINES

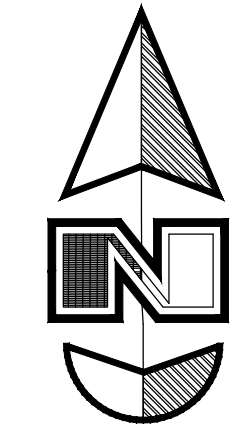
1. All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe Green, ASTM D 3034, Type PSM, SDR 35

### STORM DRAIN LINES

1. 15" to 21" pipes - Reinforced Concrete Pipe, ASTM C76, Class III up to 13' of cover.
2. 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.



- NOT TO SCALE -



### Legend

(Note: All items may not appear on drawing)

- San. Sewer Manhole
- Water Manhole
- Storm Drain Manhole
- Cleanout
- Electrical Manhole
- Catch Basins
- Exist. Fire Hydrant
- Fire Hydrant
- Water Valve
- Sanitary Sewer
- Culinary Water
- Gas Line
- Irrigation Line
- Storm Drain
- Telephone Line
- Secondary Waterline
- Power Line
- Fire Line
- Land Drain
- Power pole
- Power pole w/guy
- Light Pole
- Fence
- Flowline of ditch
- Overhead Power line
- Corrugated Metal Pipe
- Concrete Pipe
- Reinforced Concrete Pipe
- Ductile Iron
- 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
- Finish Contour
- Exist. Contour
- Finish Grade
- Exist. Grade
- Ridge Line
- Direction of Flow
- Existing Asphalt
- New Asphalt
- Existing Concrete
- New Concrete

**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.

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



1-800-882-4111

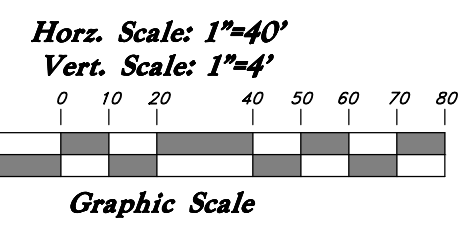
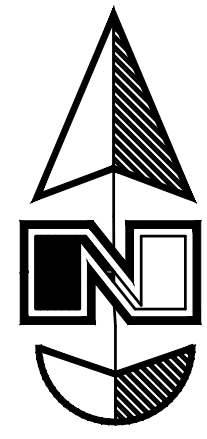
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION

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

**Plan and Profile**  
**Montgomery Subdivision Phase 2**  
 Approx 2163 North 200 West  
 Harrisville City, Weber County, Utah  
 A part of Section 32, T7N, R1W, SLB&M, U.S. Survey

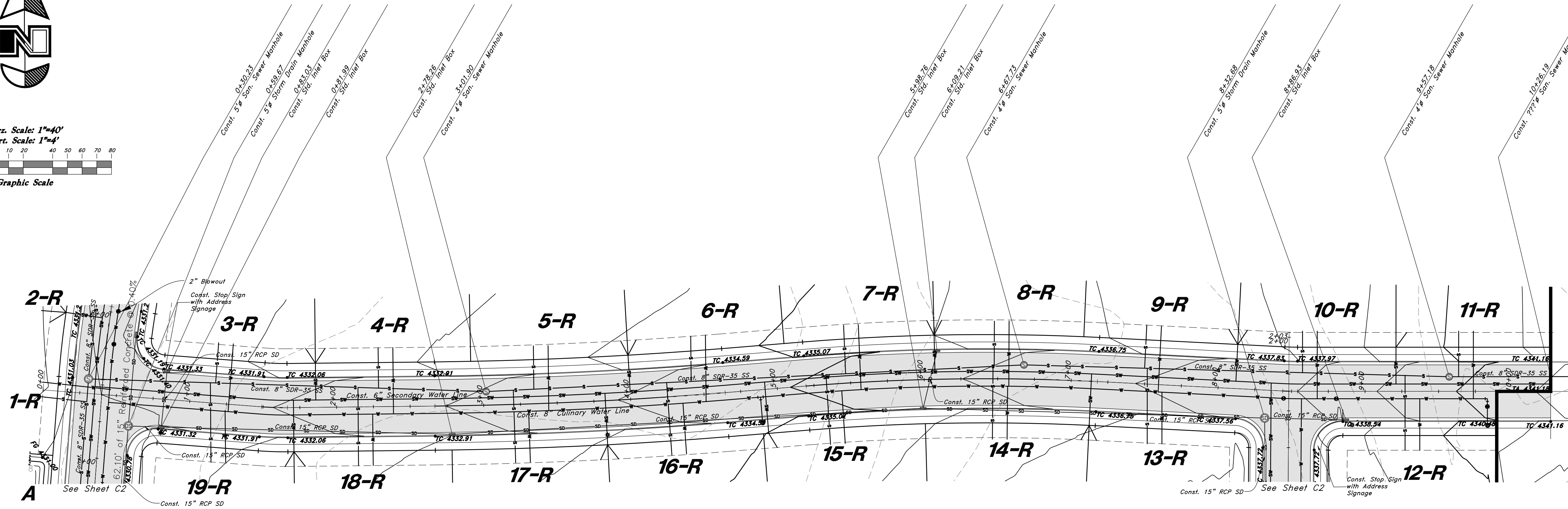
June, 2021  
 SHEET NO.  
**C1**  
 21N601



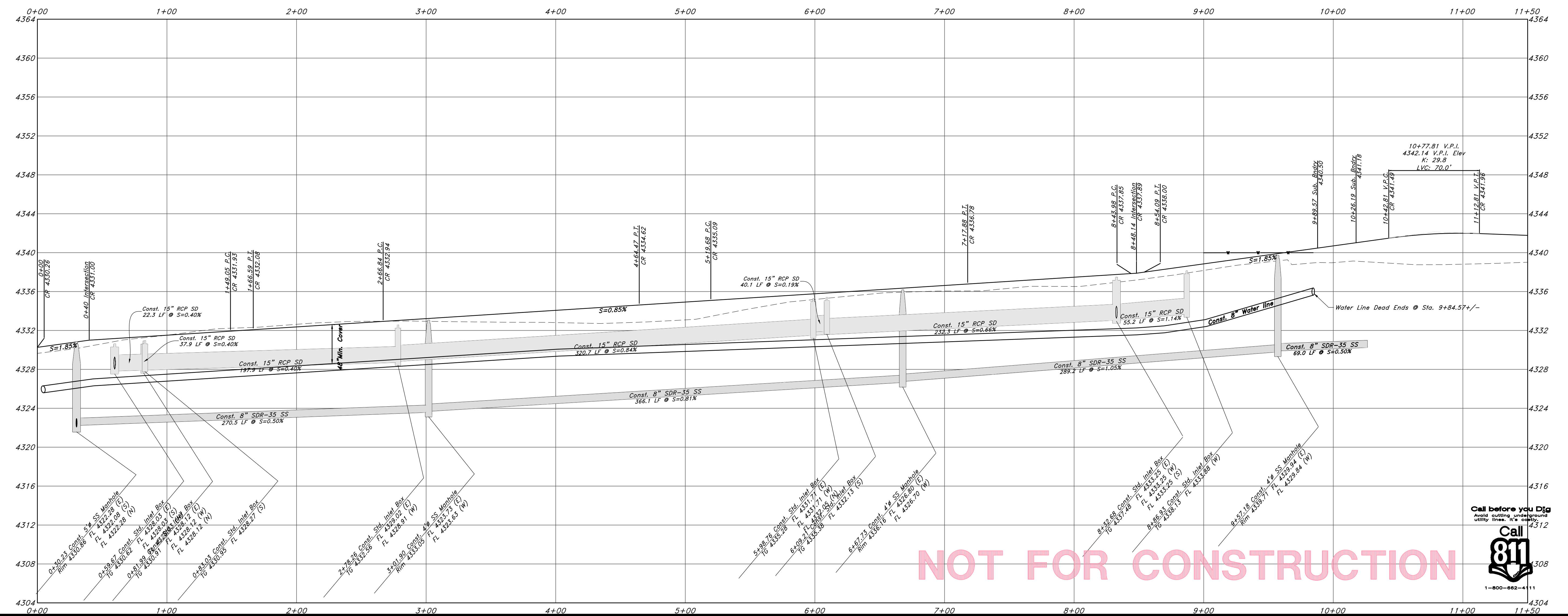
# Legend

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- Top of Asphalt
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- Flowline
- Finish Floor
- Top of Curb
- Top of Wall
- Top of Walk
- Top of Concrete
- Natural Ground
- Finish Contour
- Exist. Contour
- Finish Grade
- Exist. Grade
- Ridge Line
- Direction of Flow
- Existing Asphalt
- New Asphalt
- Heavy Duty Asphalt
- Concrete
- Open Face
- Curb & Gutter



## Bown Lane



# NOT FOR CONSTRUCTION



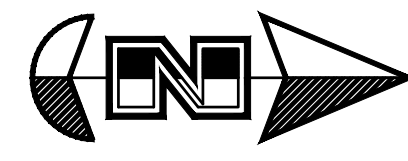
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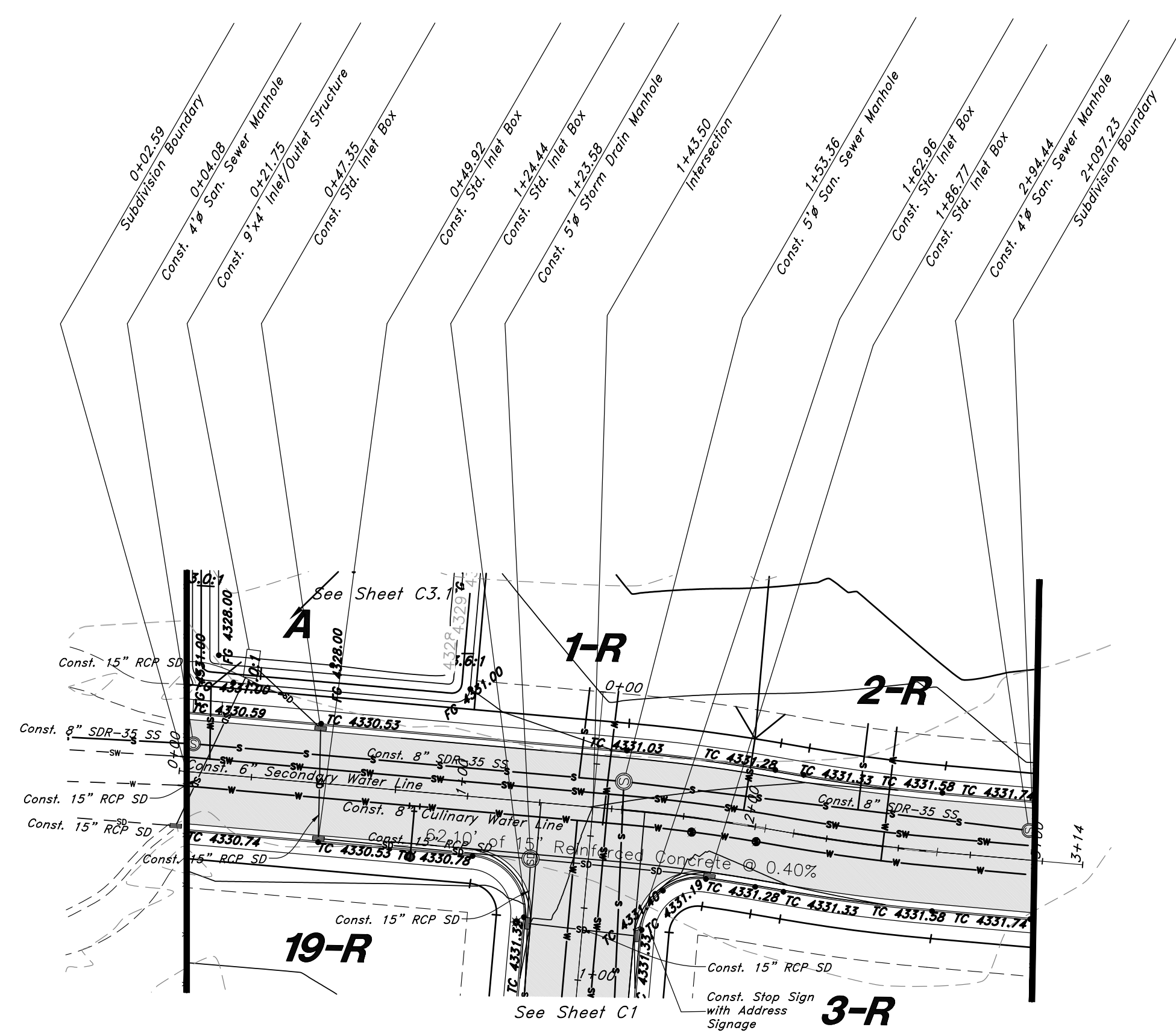
**Plan and Profile**

**Montgomery Subdivision Phase 2**

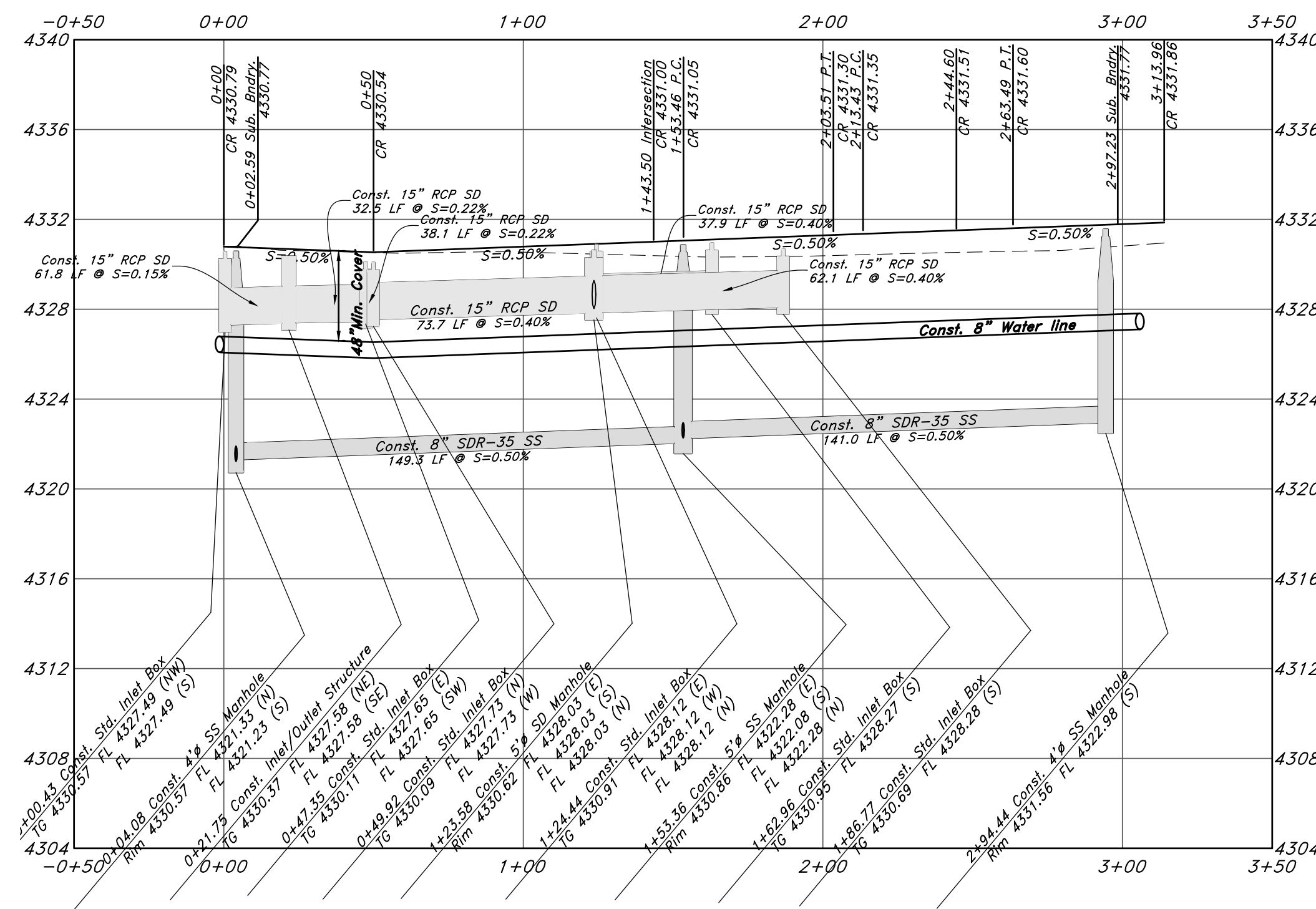
Approx 2163 North 200 West  
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 A part of Section 32, T7N, R1W, S18E, U.S. Survey



Horz. Scale: 1"=40'  
Vert. Scale: 1"=4'  
Graphic Scale



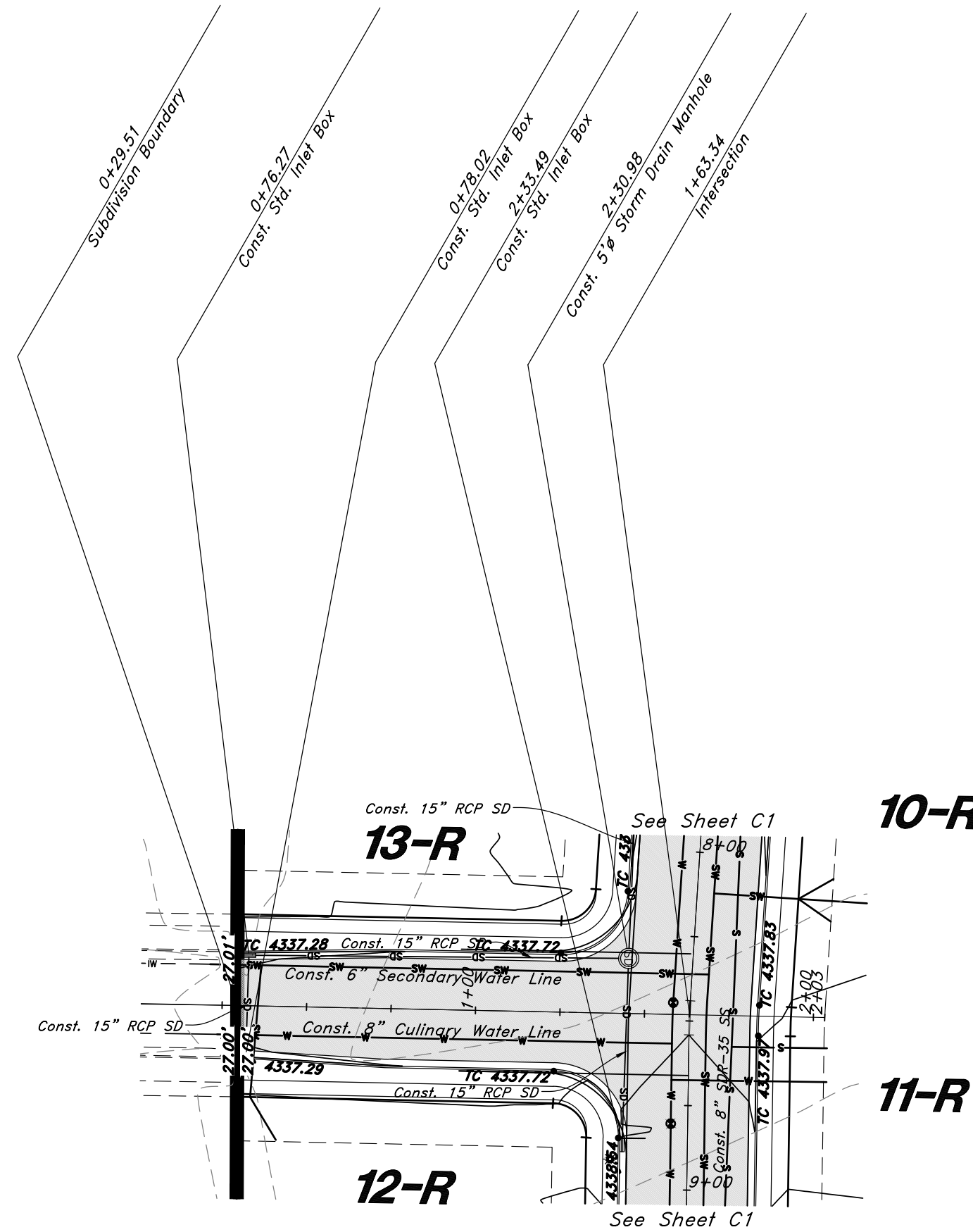
## 200 West Street



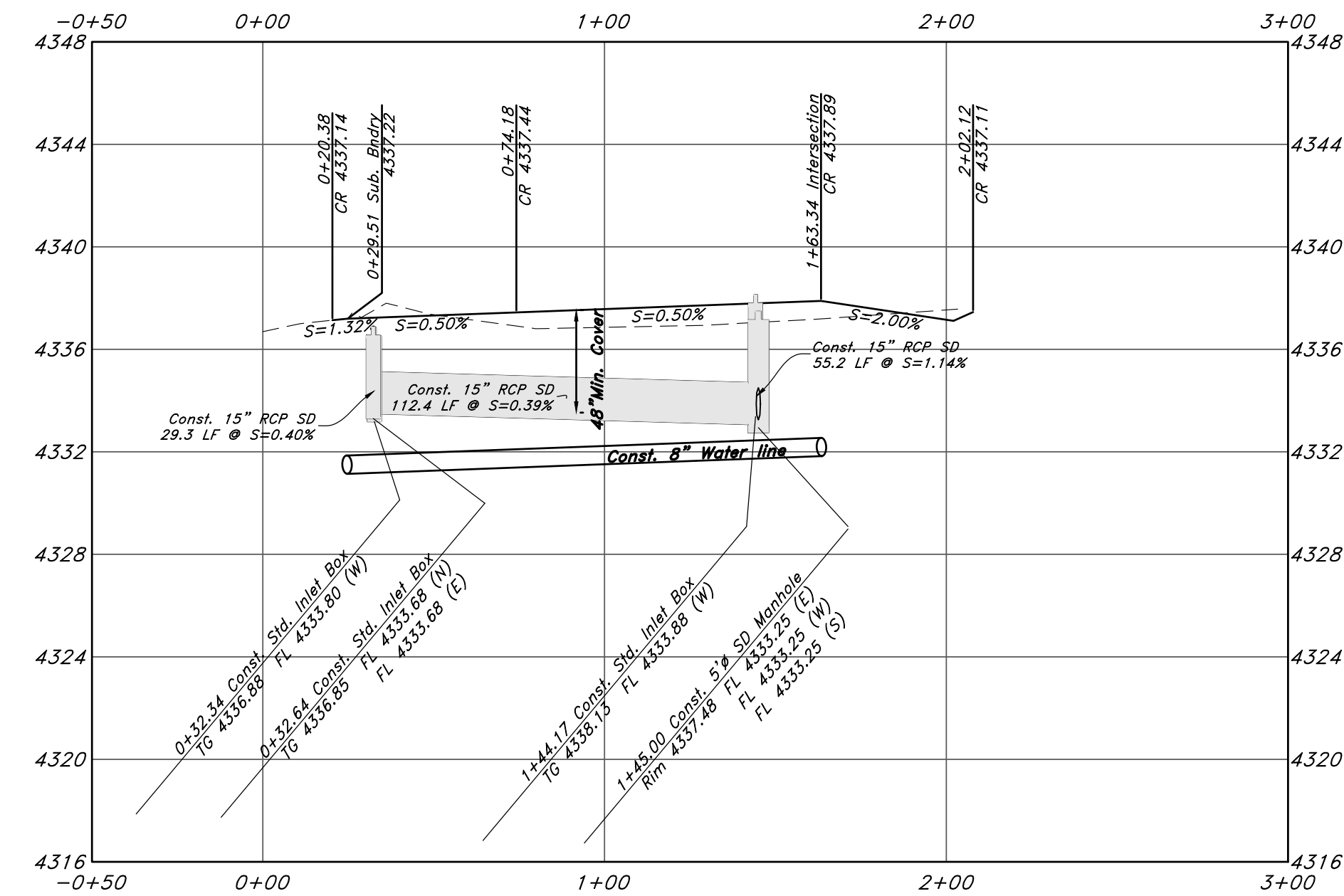
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- Top of Wall
- Top of Walk
- Top of Concrete
- Natural Ground
- Finish Contour
- Exist. Contour
- Finish Grade
- Exist. Grade
- Ridge Line
- Direction of Flow
- Existing Asphalt
- New Asphalt
- Heavy Duty Asphalt
- Concrete
- Open Face
- Curb & Gutter



## 100 West Street



REV	DATE	DESCRIPTION

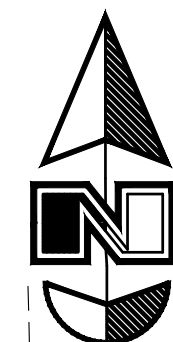
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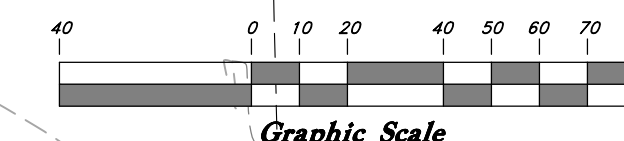
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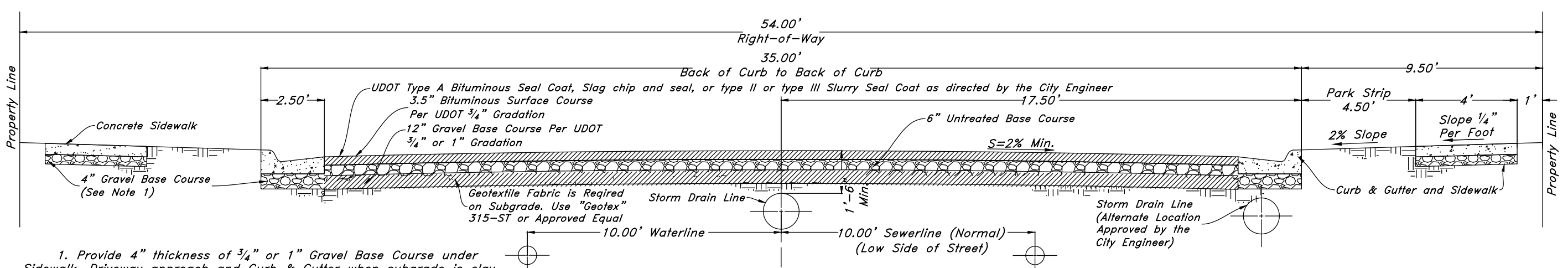
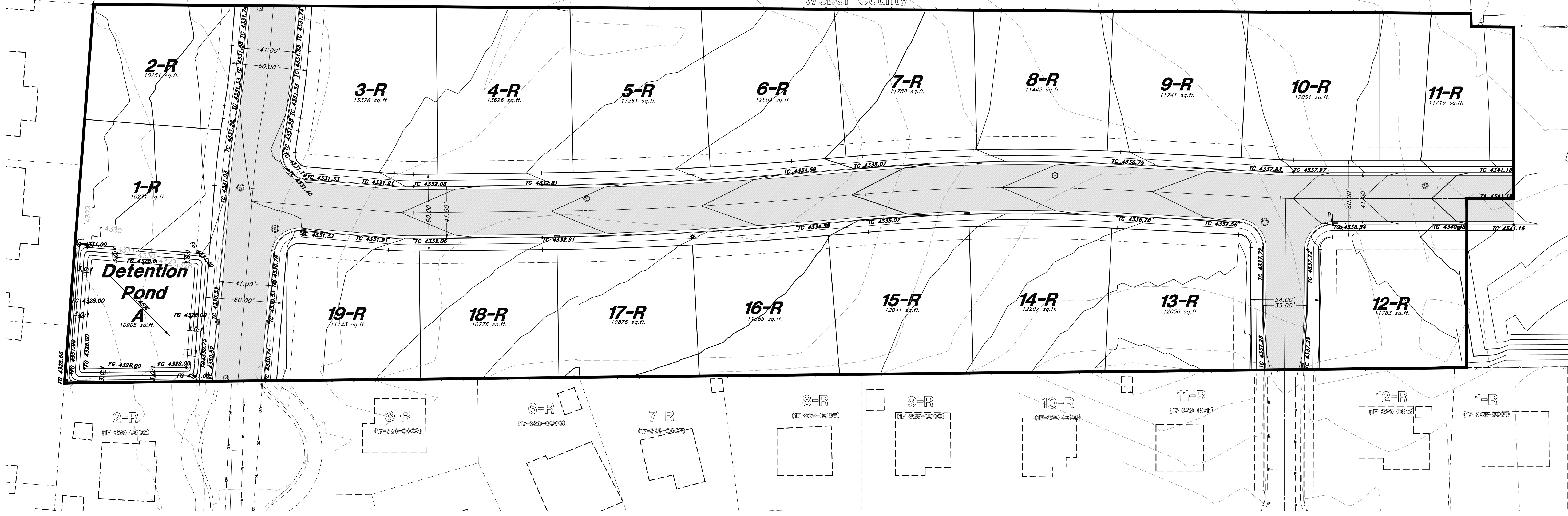
**NOT FOR CONSTRUCTION**



Scale: 1" = 40'



Weber County



100 West Street Roadway Section

1. Provide 4" thickness of 3/4" or 1" Gravel Base Course under Sidewalk, Driveway approach and Curb & Gutter when subgrade is clay or as directed by the city engineer.
2. These pavement thickness shall be considered as city standards and may be increased by the city engineer when a greater depth is necessary to provide sufficient stability designer and/or developer may submit an alternative pavement design based on a detailed soils analysis for approval by the city engineer which may modify pavement thickness but in no case shall the bituminous surface course be less than 3" thick
3. All Earthwork shall be subject to soil testing.
4. Natural gas typically located in the parkstrip, power and communication lines typically located behind property lines or in a lot Easement

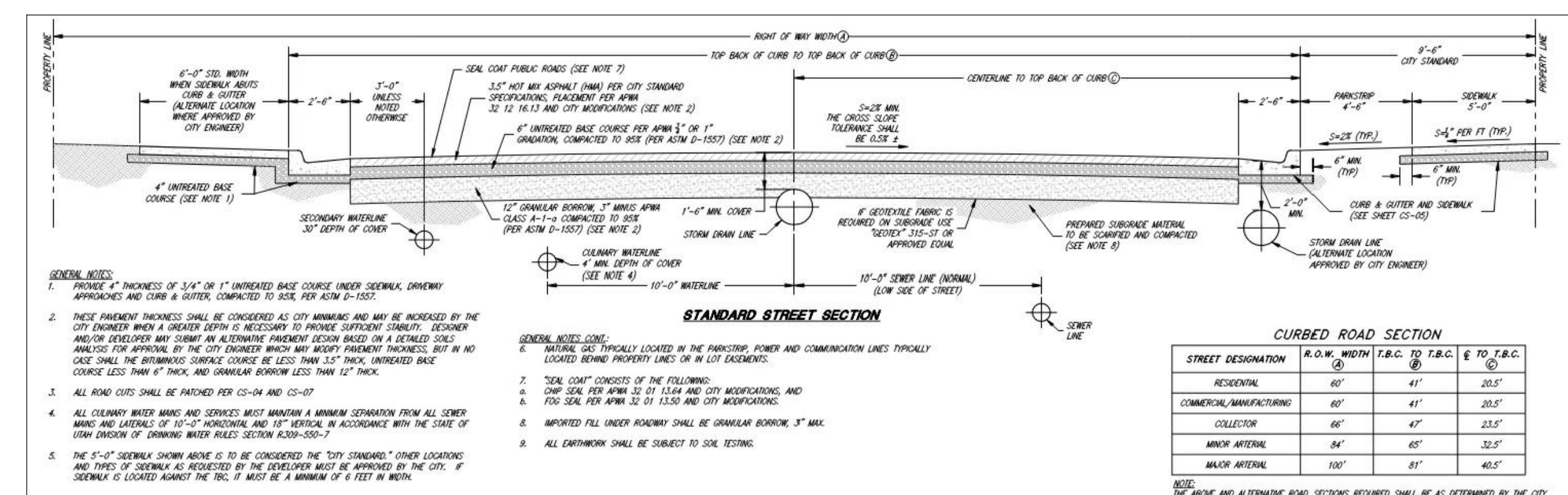
NOTE

1. Perimeter of development will be graded to match grade of adjacent parcels. Fence already exists along perimeter of development.

Legend

(Note: All items may not appear on drawing)

San. Sewer Manhole	FL	Flowline	FL
Water Manhole	FF	Finish Floor	FF
Storm Drain Manhole	TC	Top of Curb	TC
Cleanout	TW	Top of Walk	TW
Electrical Manhole	TCN	Top of Concrete	TCN
Catch Basins	FG	Finish Grade	FG
Exist. Fire Hydrant	ME	Match Existing	ME
Fire Hydrant	FDC	Fire Department Connection	FDC
Exist. Water Valve	95.337A	Exist. Contour	95.337A
Water Valve	95.721A	Exist. Grade	95.721A
Sanitary Sewer	R	Ridge Line	R
Culinary Water	W	Direction of Flow	W
Gas Line	G	Direction of Flow	G
Irrigation Line	SD	Existing Asphalt	SD
Storm Drain	SD	New Asphalt	SD
Telephone Line	T	Heavy Duty Asphalt	SD
Secondary Waterline	SW	Existing Concrete	SD
Power Line	P	New Concrete	SD
Fire Line	F	Spill Curb & Gutter	SD
Land Drain	LD	Demo Tree	SD
Power pole w/guy	PP		
Light Pole	LP		
Fence	X-X		
Flowline of ditch	DHP		
Overhead Power line	CMP		
Corrugated Metal Pipe	CP		
Concrete Pipe	RCP		
Reinforced Concrete Pipe	RCPP		
Ductile Iron	DI		
Polyvinyl Chloride	PVC		
Top of Asphalt	TA		
Edge of Asphalt	EA		
Centerline	CL		



STREET DESIGNATION	A.O.W. WIDTH	F.B.C. TO F.B.C.	F.T.O. F.B.C.
RESIDENTIAL	60'	40'	20.5'
COMMERCIAL/INDUSTRIAL	60'	40'	20.5'
COLLECTOR	60'	40'	20.5'
MAJOR ARTERIAL	60'	40'	20.5'
MAJOR ARTERIAL	100'	80'	40.5'

PRELIMINARY

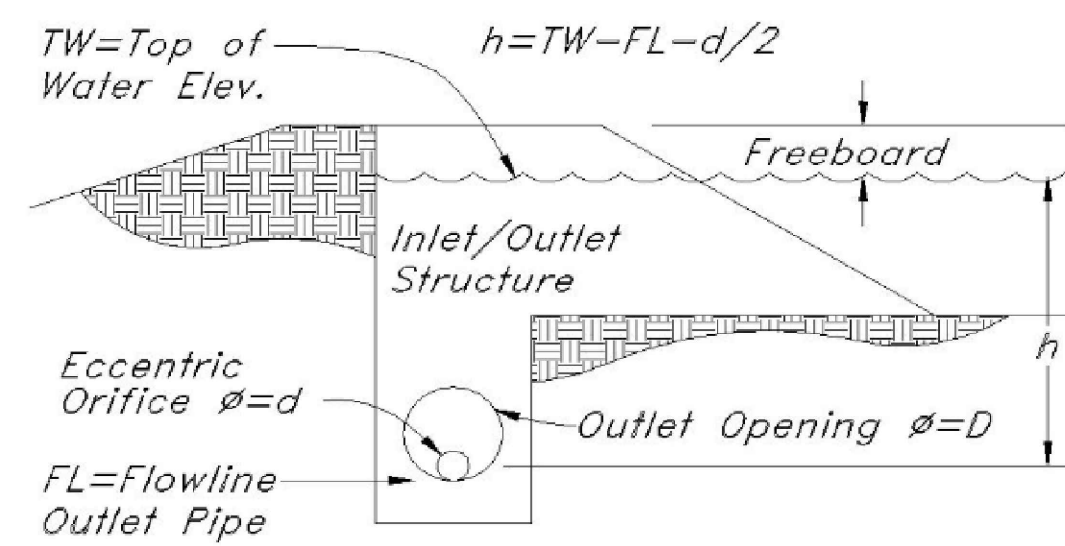
REV	DATE	DESCRIPTION

**GREAT BASIN ENGINEERING**

5746 SOUTH 1475 EAST, SUITE 102, OGDEN, UTAH 84403  
 WWW.GREATBASINENGINEERING.COM

Grading and Drainage Plan  
 Montgomery Subdivision Phase 2  
 Approx 152 East 2225 North  
 North Ogden City, Weber County, Utah  
 A part of Section 32, T7N, R1W, S16&M, U.S. Survey

**ORIFICE PLATE CALCULATIONS**



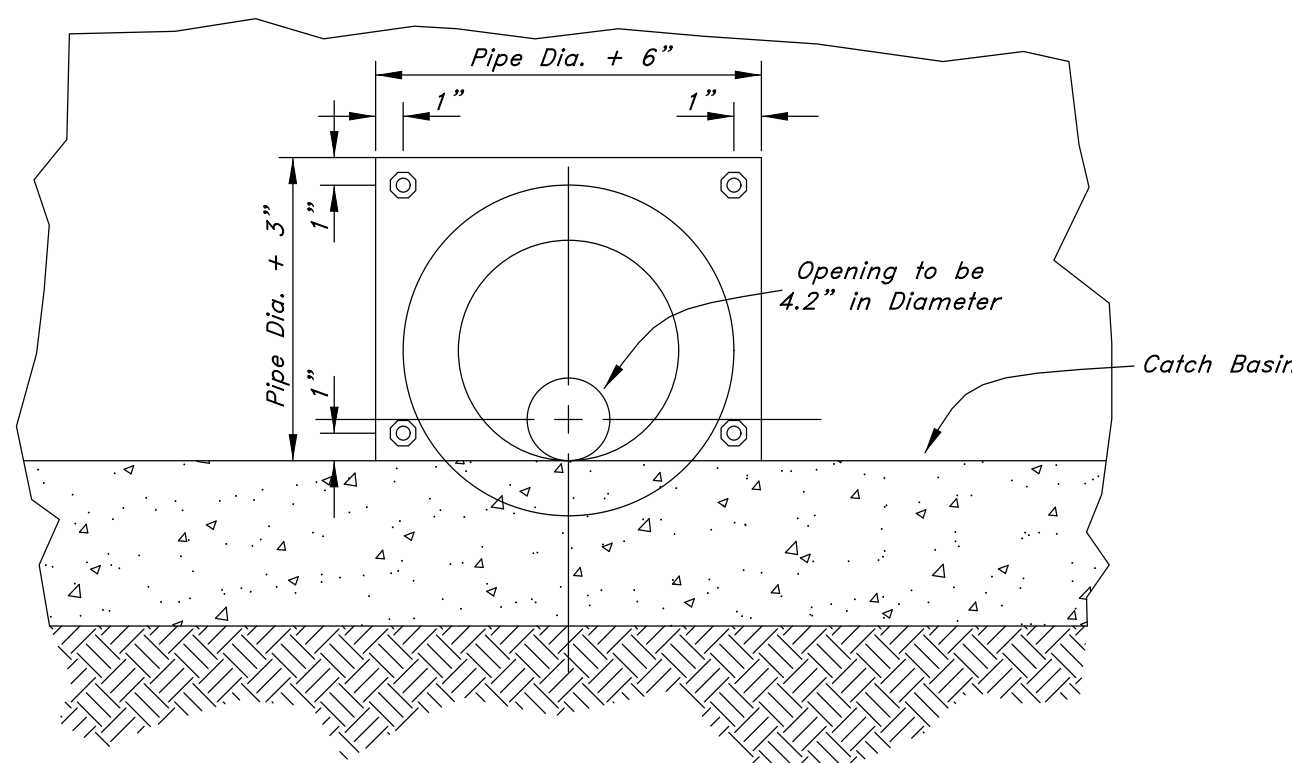
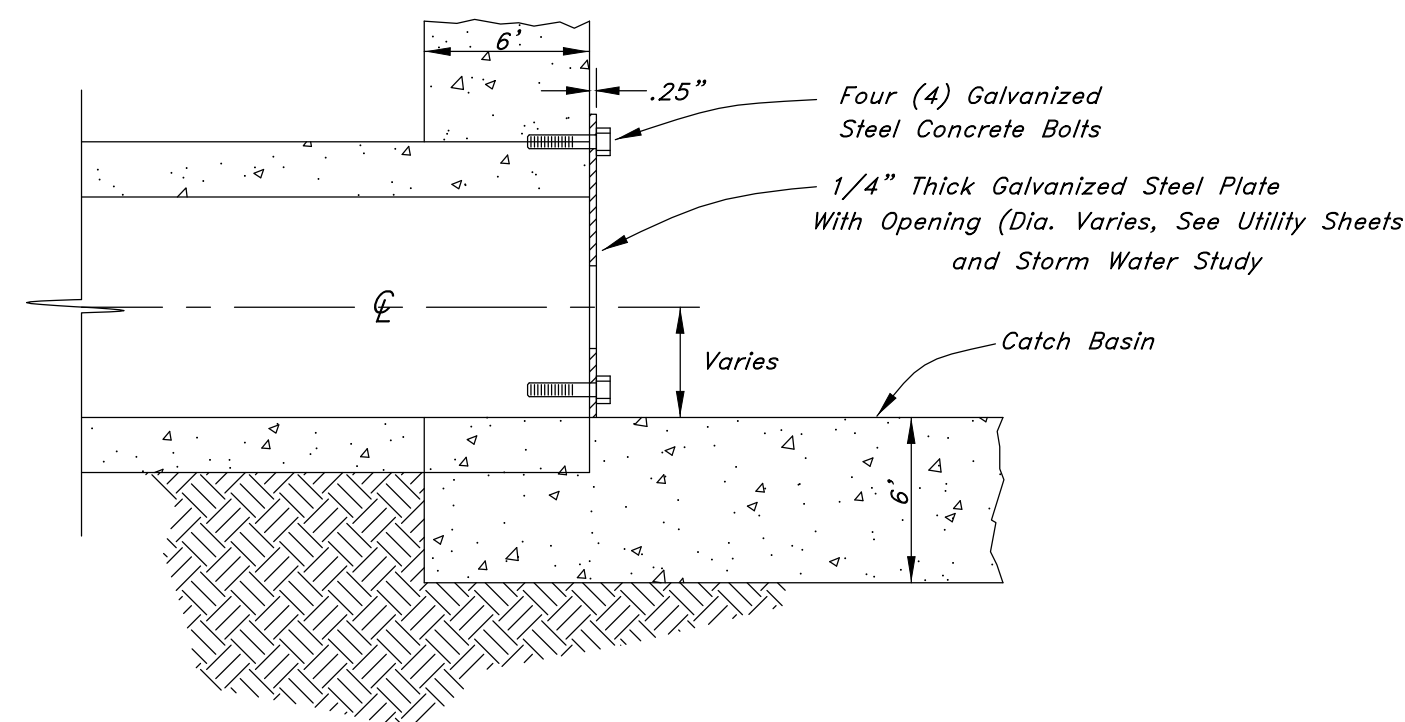
Q = Total Discharge Rate  
 $Q = 0.62 \cdot A_o \cdot \sqrt{64.4 \cdot h}$   
 $A_o = \frac{\pi \cdot d^2}{4}$

Solving for d, we have....  
 $d = \sqrt{\frac{4 \cdot Q}{0.62 \cdot \pi \cdot \sqrt{64.4 \cdot (TW - FL - d/2)}}$

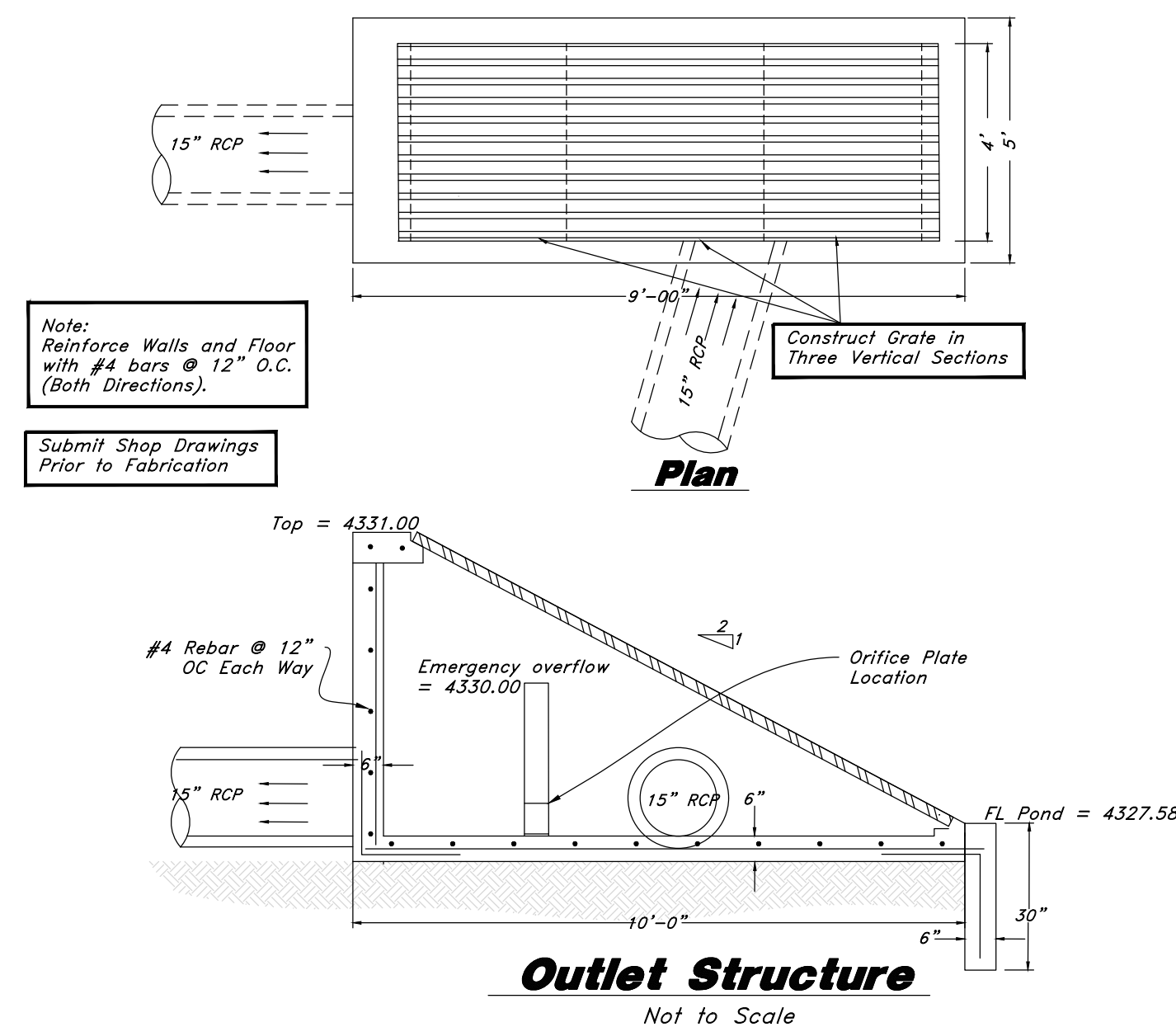
Let  $\Delta = d - \frac{4 \cdot Q}{0.62 \cdot \pi \cdot \sqrt{64.4 \cdot (TW - FL - d/2)}}$

Goal-seek  $\Delta$  to zero by changing "trial d"

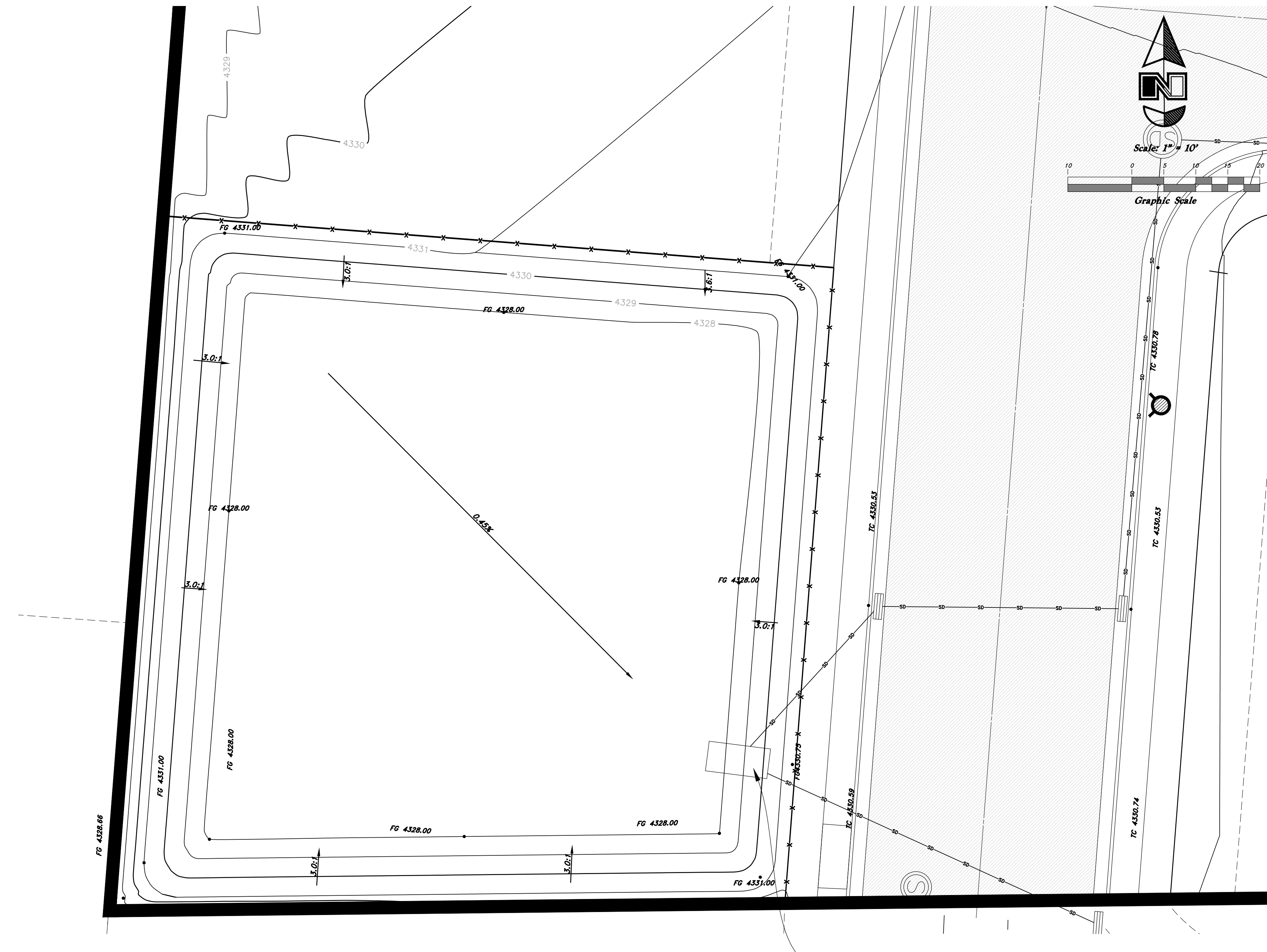
TW	30.00
FL	27.58
Q	0.721 cfs
trial d	0.3510 ft
$\Delta$	0.000 ft
d	4.21 inches



**Orifice Plate Detail**



- POND NOTES:**
- Pond Designed to accommodate the 25yr storm.
  - Detention Pond Volume Required: 15,871 cf
  - Detention Pond Volume Provided: 16,227 cf
  - Excess Volume: 356 cf
  - Top of water 4330
  - FL of Pond 4327.58
  - Free board: 1.0'
  - Maximum Pond Depth: 2.42'
  - Pond Side slopes not to exceed 3:1
  - Pond Sides to be grass.
  - Orifice in Orifice Plate to be 4.2" in Diameter

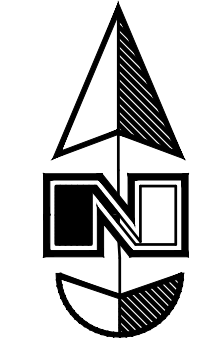


Location of Orifice Plate

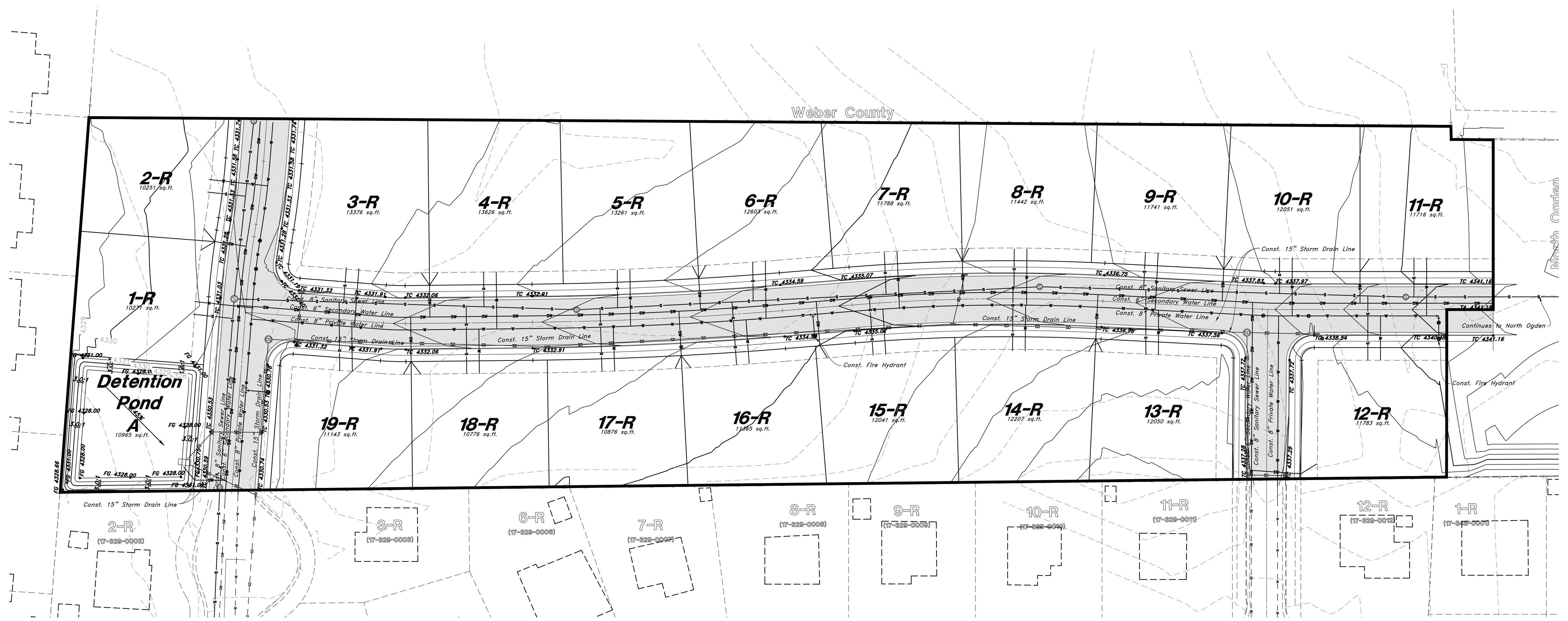
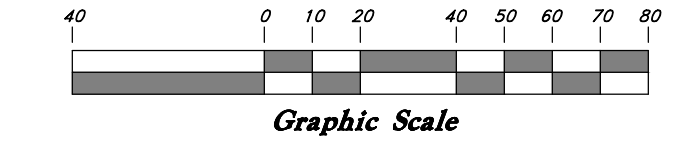
**GREAT BASIN ENGINEERING**  
 5746 SOUTH 1475 EAST, OGDEN, UTAH 84403  
 801.874.4151  
 WWW.GREATBASINENGINEERING.COM

**Grading and Drainage Plan**  
**Montgomery Subdivision Phase 2**  
 Approx 152 East 2225 North  
 North Ogden City, Weber County, Utah  
 A part of Section 32, T7N, R1W, SLB&M, U.S. Survey

**NOT FOR CONSTRUCTION**



Scale: 1" = 40'



Weber County

Ninth Meridian

### Legend

(Note: All items may not appear on drawing)

San. Sewer Manhole		Flowline	FL
Water Manhole		Finish Floor	FF
Storm Drain Manhole		Top of Curb	TC
Cleanout		Top of Wall	TW
Electrical Manhole		Top of Walk	TW
Catch Basins		Top of Concrete	TCN
Exist. Fire Hydrant		Natural Ground	NG
Exist. Water Valve		Finish Grade	FG
Water Valve		Match Existing	ME
Sanitary Sewer		Fire Department Connection	FDC
Culinary Water		Finish Contour	-90
Gas Line		Exist. Contour	-90
Irrigation Line		Finish Grade	95.337A
Storm Drain		Exist. Grade	95.721A
Telephone Line		Ridge Line	R
Secondary Waterline		Direction of Flow	
Power Line		Existing Asphalt	
Fire Line		New Asphalt	
Land Drain		Heavy Duty Asphalt	
Power pole w/guy		Existing Concrete	
Light Pole		New Concrete	
Fence		Spill Curb & Gutter	
Flowline of ditch			
Overhead Power line			
Corrugated Metal Pipe			
Concrete Pipe			
Reinforced Concrete Pipe			
Ductile Iron			
Polyvinyl Chloride			
Top of Asphalt			
Edge of Asphalt			
Centerline			

**NOTE**  
 1. Secondary water plans to be provided by Pineview Water. Shown here for information purposes only

REV	DATE	DESCRIPTION

**GREAT BASIN ENGINEERING**

5746 SOUTH 1475 EAST OGDEN, UTAH 84403  
 1801 BRERET BLDG. SALT LAKE CITY, UT 84143  
 WWW.GREATBASINENGINEERING.COM

**Utility Plan**

**Montgomery Subdivision Phase 2**

Approx 152 East 2225 North  
 North Ogden City, Weber County, Utah  
 A part of Section 32, T7N, R1W, SLB&M, U.S. Survey

27 July, 2021

SHEET NO. **C4**

18N744

PRELIMINARY



# HARRISVILLE CITY

363 West Independence • Harrisville, Utah 84404 • (801) 782-4100

MAYOR:

Michelle N. Tait

COUNCIL MEMBERS:

Grover Wilhelmsen  
Steve Weiss  
Blair Christensen  
Max Jackson  
Kenny Loveland

---

## MEMORANDUM

TO: Harrisville Mayor and City Council

FROM: Cynthia Benson, Deputy Recorder

RE: Final Approval for Ashlar Cove Subdivision; a 23-lot subdivision located at approximately 375 West 1125 North

Date: October 5, 2021

---

The proposed Final Approval for Ashlar Cove Subdivision; a 23-lot subdivision located at approximately 375 West 1125 North, comes with a positive recommendation from the Planning Commission meeting held on September 8, 2021 with the following conditions added;

### **SUMMARY from Engineer's Memo dated September 2, 2021:**

We have reviewed the final plat and improvement plans and they generally conform to City public works standards and engineering requirements. We recommend final approval of the plat and improvement drawings at this time contingent upon the following items:

1. Obtain all approvals from the ditch users and coordinate work with the property owners to ensure that delivery of irrigation water is not interrupted.
2. Annex the subdivision into the Four-Mile Special Service District. An annexation plat has been prepared but needs to be sent to the County Surveyor for review. Water shares will need to be turned over to the District as part of the annexation.
3. Complete a Storm Water Pollution Prevention Plan (SWPPP), file a Notice of Intent (NOI) with the State, and obtain a Stormwater Activity Permit from the City before any construction begins.
4. Prepare an engineer's estimate for the cost of the public improvements and send it over for review. This estimate needs to be approved before the pre-construction meeting and will be the basis for the developer's agreement and the associated construction guarantee.
5. The final set of plans will have a "City Engineer Acceptance" stamp and will be the only set of plans to be used during construction.
6. Prior to construction, the Developer and the Contractor must hold a pre-construction meeting with City staff to review construction requirements.



7. A Developer's Agreement

- a. *Developer's agreement is process with developer. Jennie sent the agreement over to the developer but hasn't heard back. Follow-up to be done upon her return.*

Staff brings forward a positive recommendation for Final Approval for Ashlar Cove Subdivision; a 23-lot subdivision located at approximately 375 West 1125 North, based on all stipulations within the Engineer Memo dated September 2, 2021 and the recommendations from Planning Commission, dated September 8, 2021, have been completed or are in the process of being completed.

# MEMORANDUM



CONSULTING ENGINEERS

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TO: Harrisville City Council

FROM: Matthew L. Robertson, P.E.  
City Engineer

RE: **ASHLAR COVE SUBDIVISION**  
**Final Plat and Improvement Drawings**

Date: October 7, 2021

---

Our office has completed a review of the final plat and improvement plans for the Ashlar Cove Subdivision located at approximately 1175 North Highway 89. This property is zoned RE-15 and the proposed development will have 23 new residential lots.

An important issue to understand with this development is the impact to the gravity irrigation ditches that traverse the property. The Levi Taylor ditch as well as a small portion of the Shurtliff ditch are impacted by this development. The ditches will be piped within the development and the water shares owned by the property will be used to fill a new secondary water pond and associated pressurized secondary water system for the new subdivision. This subdivision will be annexed into the Four-Mile Special Service District which is operated by the City. Downstream of the new pond, the ditch will be piped within an irrigation easement in the subdivision and new turnout structures for each ditch user that borders the development will be installed to ensure continued service for these properties. To maintain reasonable access for the ditch users, the Developer is proposing to install an asphalt trail in the irrigation easement and granting a trail easement to Harrisville City. This trail would then become a part of the City's trail system and would be maintained by the City. The trail would run along the west perimeter of the development and connect to the church property. The Developer has met with the ditch users and they are aware of these proposed changes. If the Developer is able to obtain permission from the neighboring properties to relocate the ditch onto their properties and outside of the subdivision before the trail is installed and the plat is recorded, then the irrigation and trail easement will not be necessary.

We have reviewed the final plat and improvement plans and they generally conform to City public works standards and engineering requirements. We recommend final approval of the plat and improvement drawings at this time contingent upon the following items:

1. Obtain all approvals from the ditch users and coordinate work with the property owners to ensure that delivery of irrigation water is not interrupted.
2. Annex the subdivision into the Four-Mile Special Service District. An annexation plat has been prepared and approved by the County Surveyor and the plat just needs to be approved by the Service District and routed for signatures. Water shares will need to be turned over to the District as part of the annexation as well.

3. Complete a Storm Water Pollution Prevention Plan (SWPPP), file a Notice of Intent (NOI) with the State, and obtain a Stormwater Activity Permit from the City before any construction begins.
4. An engineer's estimate for the cost of the public improvements has been submitted and will be reviewed by our office; make any necessary revisions and re-submit. This estimate needs to be approved before the pre-construction meeting and will be the basis for the developer's agreement and the associated construction guarantee.
5. The final set of plans will have a "City Engineer Acceptance" stamp and will be the only set of plans to be used during construction.
6. Prior to construction, the Developer and the Contractor must hold a pre-construction meeting with City staff to review construction requirements.

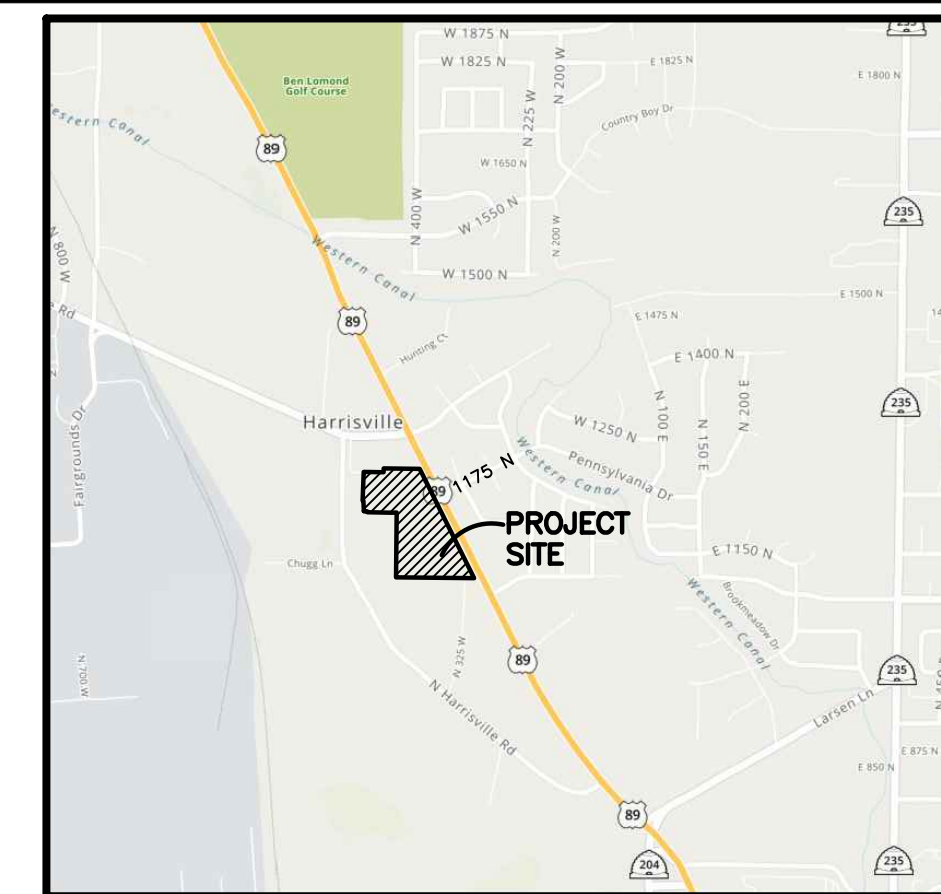
Please let me know if you have any questions.

**Project Narrative/Notes/Revisions**

1. 02/03/21 NF - COMPLETED DESIGN FOR CLIENT & CITY REVIEW.
2. 03/04/21 NF - CITY COMMENTS DATED 2/8/21.
3. 05/25/21 NF - CITY COMMENTS DATED 5/3/21.
4. 07/26/21 NF - CITY COMMENTS DATED 6/25/21.

# ASHLAR COVE SUBDIVISION Improvement Plans

HARRISVILLE CITY, WEBER COUNTY, UTAH  
NOVEMBER 2020



**Vicinity Map**  
NOT TO SCALE

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

REVISIONS	DESCRIPTION
DATE	

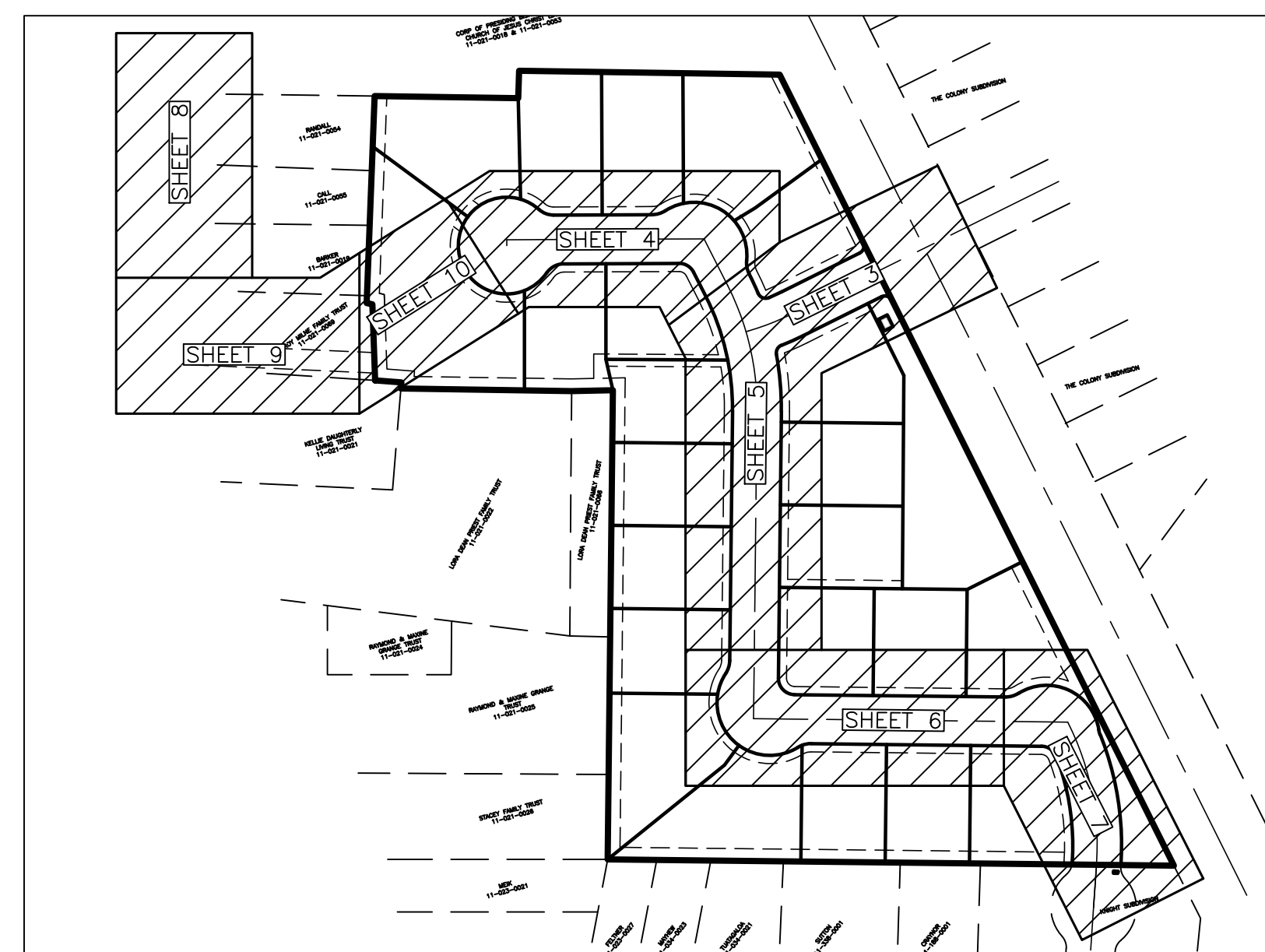
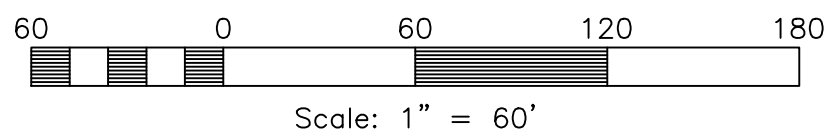
**Ashlar Cove Subdivision**  
 PART OF THE SE 1/4 OF SECTION 6 AND THE SW 1/4 OF SECTION 5,  
 TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE BASE & MERIDIAN, U.S. SURVEY  
 HARRISVILLE CITY, WEBER COUNTY UTAH

**Cover/Index Sheet**



**Project Info.**

Engineer: JEREMY A. DRAPER, P.E.  
 Drafter: N. FICKLIN  
 Begin Date: 11/10/2020  
 Name: ASHLAR COVE  
 MILNE PROPERTY  
 Number: 4016-10



**Sheet Index Key Map**  
NOT TO SCALE

- Sheet Index**
- Sheet 1 - Cover/Index Sheet
  - Sheet 2 - Notes/Legend
  - Sheet 3 - 1175 North - 4+75.00 - 8+00.00
  - Sheet 4 - 1225 North - 3+80.00 - 7+50.00
  - Sheet 5 - 375 West - 7+50.00 - 11+75.00
  - Sheet 6 - 1125 North - 11+75.00 - 15+25.00
  - Sheet 7 - 325 West - 15+25.00 - 18+50.00
  - Sheet 8 - Harrisville Rd. 5+00.00 - 10+00.00
  - Sheet 9 - Utility Outfall A 5+00.00 - 8+00.00
  - Sheet 10 - Utility Outfall B 5+00.00 - 5+70.00  
Utility Outfall C 5+00.00 - 7+10.00
  - Sheet 11 - Grading Plan
  - Sheet 11.1 - Basin Plan
  - Sheet 11.2 - Irrigation Plan
  - Sheet 12 - Utility Plan
  - Sheet 13 - Standard Details
  - Sheet 13.1 - Standard Details
  - Sheet 13.2 - Standard Details
  - Sheet 14 - Storm Water Pollution Prevention Plan Exhibit
  - Sheet 15 - Storm Water Pollution Prevention Plan Details
  - Sheet 16 - UDOT Exhibit U.S. Hwy-89 Access Plan

**Engineer's Notice To Contractors**

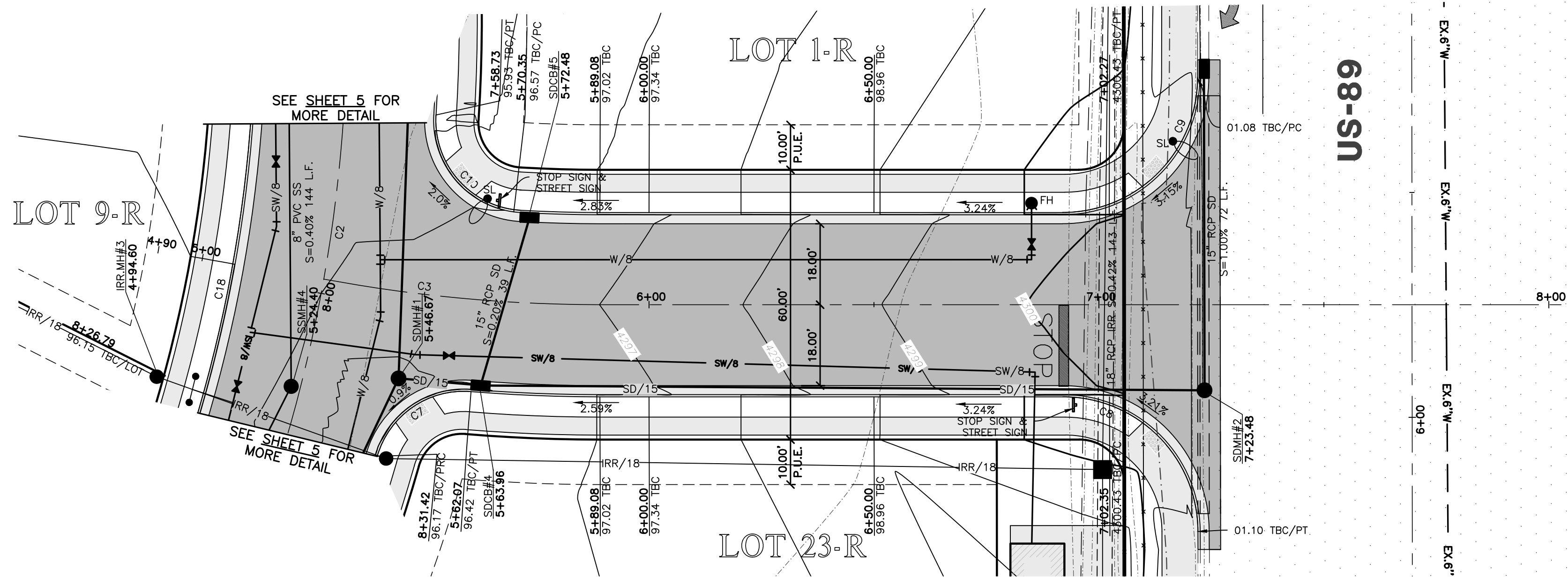
THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED FROM AVAILABLE INFORMATION PROVIDED BY OTHERS. THE LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT 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:**  
 Sierra Homes  
 170 North 2450 West  
 Tremonton, Utah, 84337  
 PH: (435) 257-4963

**Project Contact:**  
 Project Manager: Jeremy Draper  
 Project Engineer: Jeremy Draper



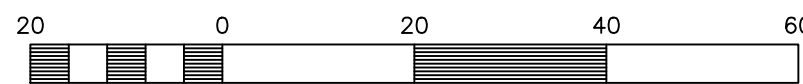




US-89



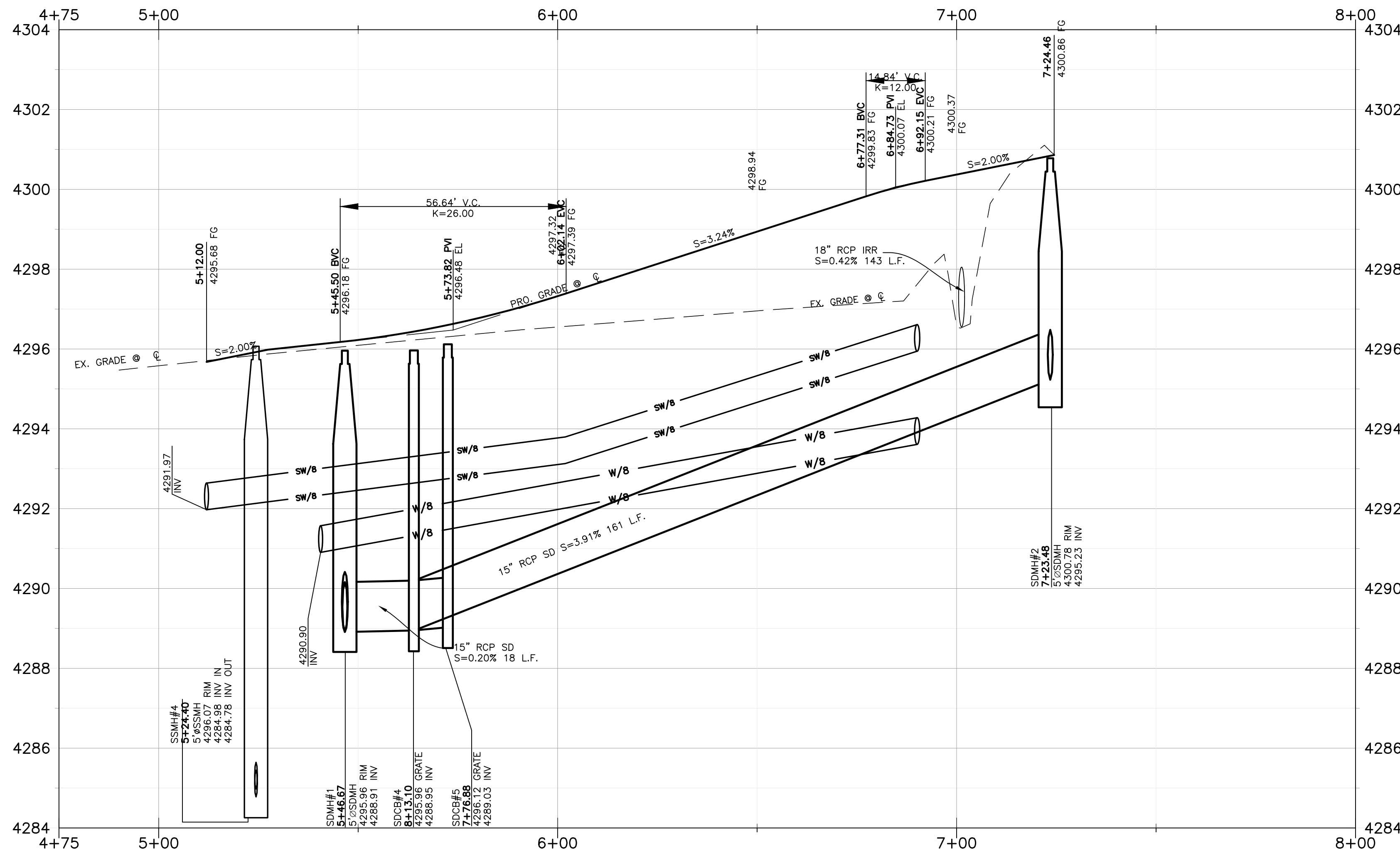
### 1175 NORTH 4+75.00 - 8+00.00



Horizontal Scale: 1" = 20'  
Vertical Scale: 1" = 2'

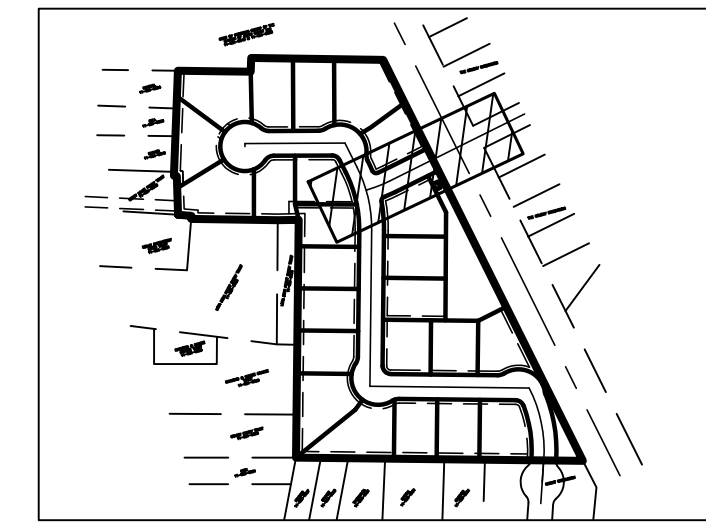
TBC Curve Data						
#	Delta	Radius	Length	Tangent	Chord	CH Length
C7	78°37'28"	19.97'	27.41'	16.35'	S28°58'33"W	25.31'
C8	89°54'21"	30.00'	47.07'	29.95'	N71°28'12"W	4301.31'
C9	89°55'45"	30.00'	47.09'	29.96'	N18°36'43"E	4301.29'
C10	90°16'18"	20.00'	31.52'	20.10'	S68°03'11"E	28.36'
C18	27°29'20"	312.50'	149.93'	76.44'	N13°06'44"W	148.50'

Centerline Curve Data						
#	Delta	Radius	Length	Tangent	Chord	CH Length
C3	10°03'45"	333.00'	58.48'	29.32'	N68°36'30"E	58.41'



#### Key Map

NOT TO SCALE



#### Construction Notes:

1. ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF HARRISVILLE CITY.
2. CONSTRUCT HANDICAP RAMP PER ADA AND CITY REQUIREMENTS.

#### CULINARY WATER

W/8 - 8" PVC DR-18 C900 WATER LINE  
W LAT - 3/4" COPPER PIPE, 5/8" METER

#### SANITARY SEWER

SS/8 - 8" PVC SDR-35 SEWER LINE  
SS LAT - 4" PVC ASTM D-3034 SDR35

#### STORM DRAIN

SD/15 - 15" RCP CLASS III STORM DRAIN  
SD/18 - 18" RCP CLASS III STORM DRAIN

#### SECONDARY WATER

SW/8 - 8" AWWA C900 DR 18 PURPLE  
SW LAT - 1" POLYETHYLENE (PE) 200 PSI  
CTS SECONDARY WATER LINE

SW LAT (DOUBLE) - 1 1/2" POLYETHYLENE (PE) (DOUBLE)  
CTS SECONDARY WATER LINE

#### IRRIGATION

SD/18 - 18" RCP CLASS III STORM DRAIN

#### NOTE:

1. PROVIDE 18" CLEARANCE FOR WATER LATERALS & MAINS OVER SEWER.
2. DEPTH OF WATER TO BE 4' MIN. BELOW FINISHED GRADE.
3. CULINARY WATER TO BE INSTALLED PER BONA VISTA STANDARDS.
4. ALL EXISTING DITCHES THAT ARE BEING FILLED IN, MUST HAVE STRUCTURAL FILL IN ALL RIGHT-OF-WAY AND BUILDING FOOTPRINTS.
5. DURING CONSTRUCTION THE CONTRACTOR WILL ENSURE THAT FENCING IS REPLACED, TEMPORARY FENCING IS USED AS NECESSARY, DAMAGE TO PROPERTY IS RESTORED, AND THE THAT TEMPORARY BYPASSING OF THE DITCH FLOWS IS INSTALLED TO ENSURE UNINTERRUPTED DELIVERY OF WATER TO DOWNSTREAM USERS.
6. ALL EXISTING FENCING WITHIN PROPERTY TO BE REMOVED.
7. ALL IRRIGATION LATERALS AND HEADGATES TO BE MAINTAINED & OPERATED BY IRRIGATION COMPANY.
8. PVC SLEEVES TO BE INSTALLED UNDER PATHWAY FOR SPRINKLER USE.
9. CONTRACTOR TO INSTALL ALL SLEEVES AS REQUIRED FOR THE RESIDENTIAL DEVELOPMENT.

REVISIONS

DESCRIPTION

DATE

**Ashlar Cove Subdivision**  
PART OF THE SE 1/4 OF SECTION 6 AND THE SW 1/4 OF SECTION 5,  
TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE BASE & MERIDIAN, U.S. SURVEY  
HARRISVILLE CITY, WEBER COUNTY UTAH

**1175 NORTH 4+75.00 - 8+00.00**



#### Project Info.

Engineer: JEREMY A. DRAPER, P.E.

Drafter: N. FICKLIN

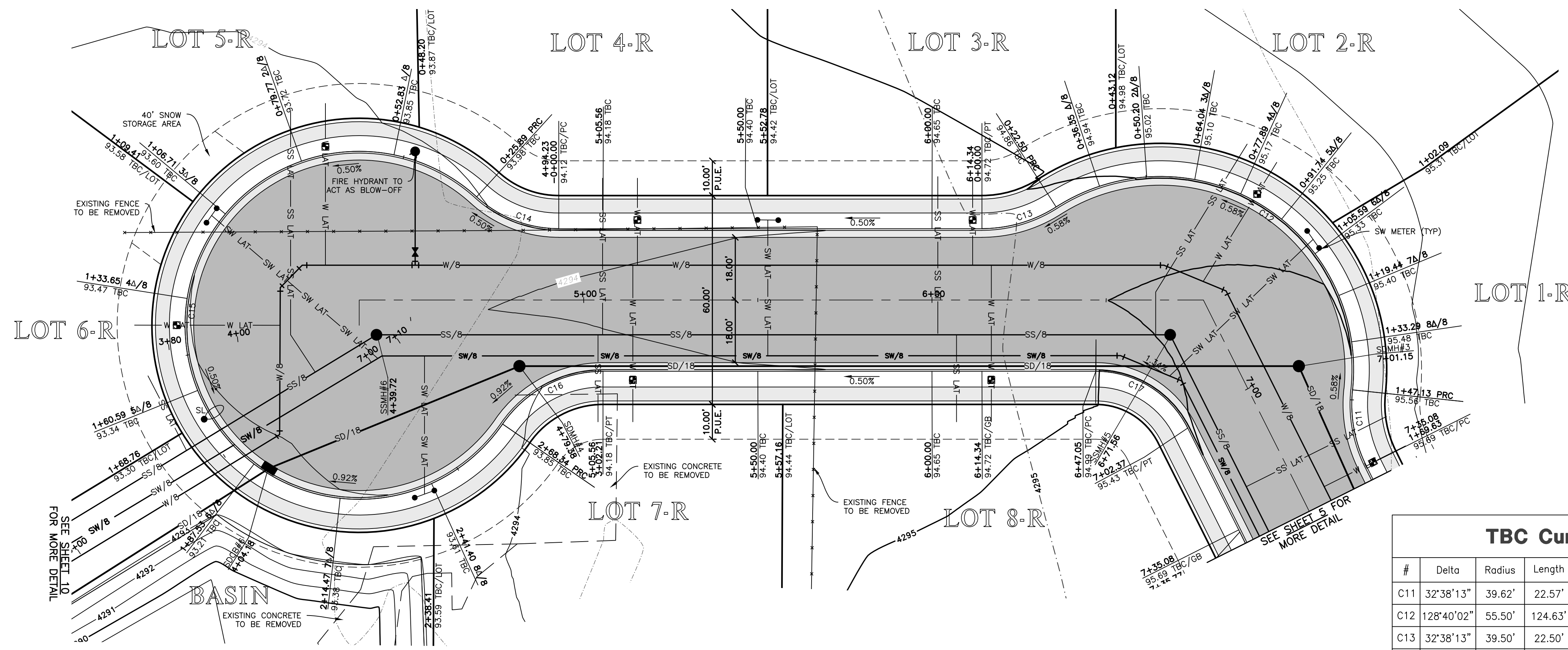
Begin Date: 11/10/2020

Name: ASHLAR COVE

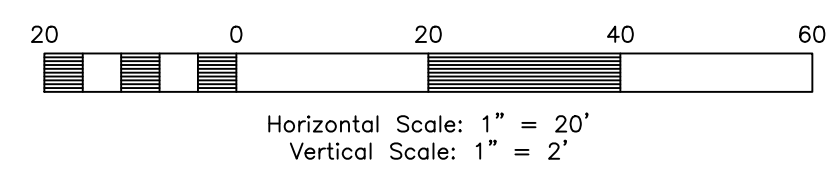
MILNE PROPERTY

Number: 4016-10

Sheet **3** of **16** Sheets

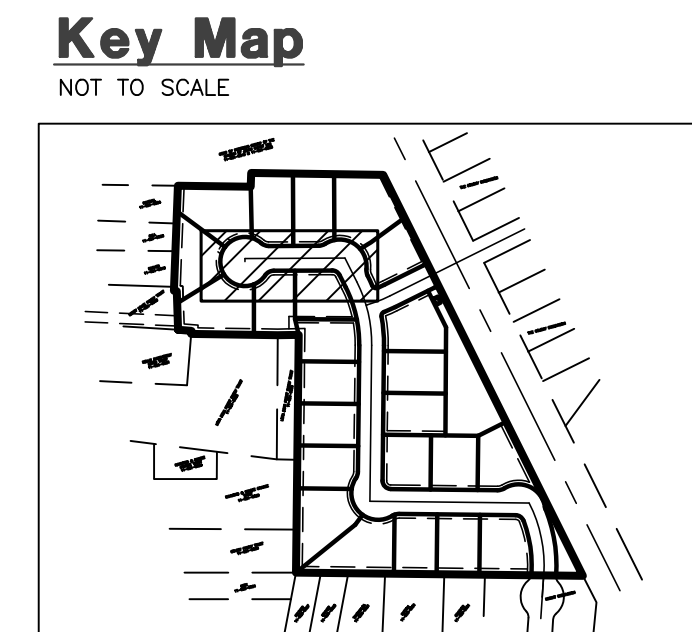
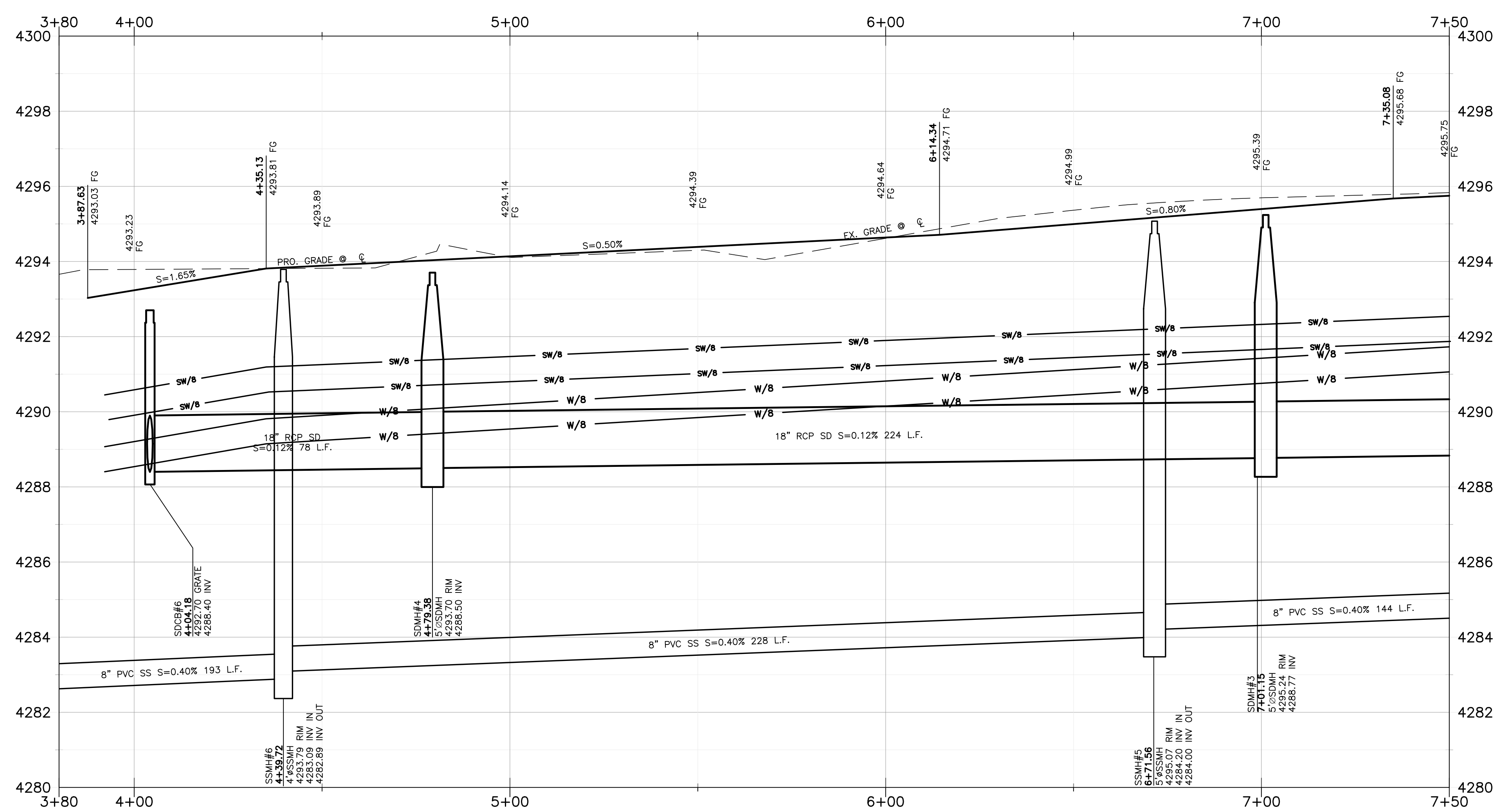


### 1225 NORTH 3+80.00 - 7+50.00



#### TBC Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C11	32°38'13"	39.62'	22.57'	11.60'	S10°35'19"E	22.26'
C12	128°40'02"	55.50'	124.63'	115.49'	N58°33'11"W	100.05'
C13	32°38'13"	39.50'	22.50'	11.56'	N73°25'54"E	22.20'
C14	42°23'15"	35.00'	25.89'	13.57'	S69°03'22"E	25.31'
C15	277°49'36"	50.00'	242.45'	43.60'	S6°46'33"E	65.72'
C16	55°26'21"	35.00'	33.87'	18.39'	S62°01'50"W	32.56'
C17	63°23'36"	29.50'	32.64'	18.22'	N58°33'12"W	31.00'



#### Construction Notes:

- ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF HARRISVILLE CITY.
  - CONSTRUCT HANDICAP RAMP PER ADA AND CITY REQUIREMENTS.
- CULINARY WATER**  
W/8 - 8" PVC DR-18 C900 WATER LINE  
W LAT - 3/4" COPPER PIPE, 5/8" METER
- SANITARY SEWER**  
SS/8 - 8" PVC SDR-35 SEWER LINE  
SS LAT - 4" PVC ASTM D-3034 SDR35
- STORM DRAIN**  
SD/15 - 15" RCP CLASS III STORM DRAIN  
SD/18 - 18" RCP CLASS III STORM DRAIN
- SECONDARY WATER**  
SW/8 - 8" AWWA C900 DR 18 PURPLE  
SW LAT - 1" POLYETHYLENE (PE) 200 PSI  
CTS SECONDARY WATER LINE  
SW LAT (DOUBLE) - 1/2" POLYETHYLENE (PE) CTS SECONDARY WATER LINE
- IRRIGATION**  
SD/18 - 18" RCP CLASS III STORM DRAIN

- NOTE:**
- PROVIDE 18" CLEARANCE FOR WATER LATERALS & MAINS OVER SEWER.
  - DEPTH OF WATER TO BE 4" MIN. BELOW FINISHED GRADE.
  - CULINARY WATER TO BE INSTALLED PER BONA VISTA STANDARDS.
  - ALL EXISTING DITCHES THAT ARE BEING FILLED IN, MUST HAVE STRUCTURAL FILL IN ALL RIGHT-OF-WAY AND BUILDING FOOTPRINTS.
  - DURING CONSTRUCTION THE CONTRACTOR WILL ENSURE THAT FENCING IS REPLACED, TEMPORARY FENCING IS USED AS NECESSARY, DAMAGE TO PROPERTY IS RESTORED, AND THE THAT TEMPORARY BYPASSING OF THE DITCH FLOWS IS INSTALLED TO ENSURE UNINTERRUPTED DELIVERY OF WATER TO DOWNSTREAM USERS.
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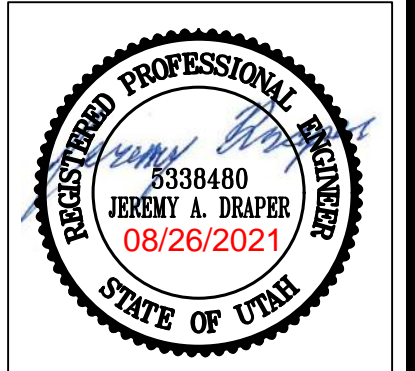
**Reeve & Associates, Inc.**  
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS  
5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405  
TEL: (801) 621-3100 www.reeve-associates.com

**RA**

REVISIONS	DESCRIPTION

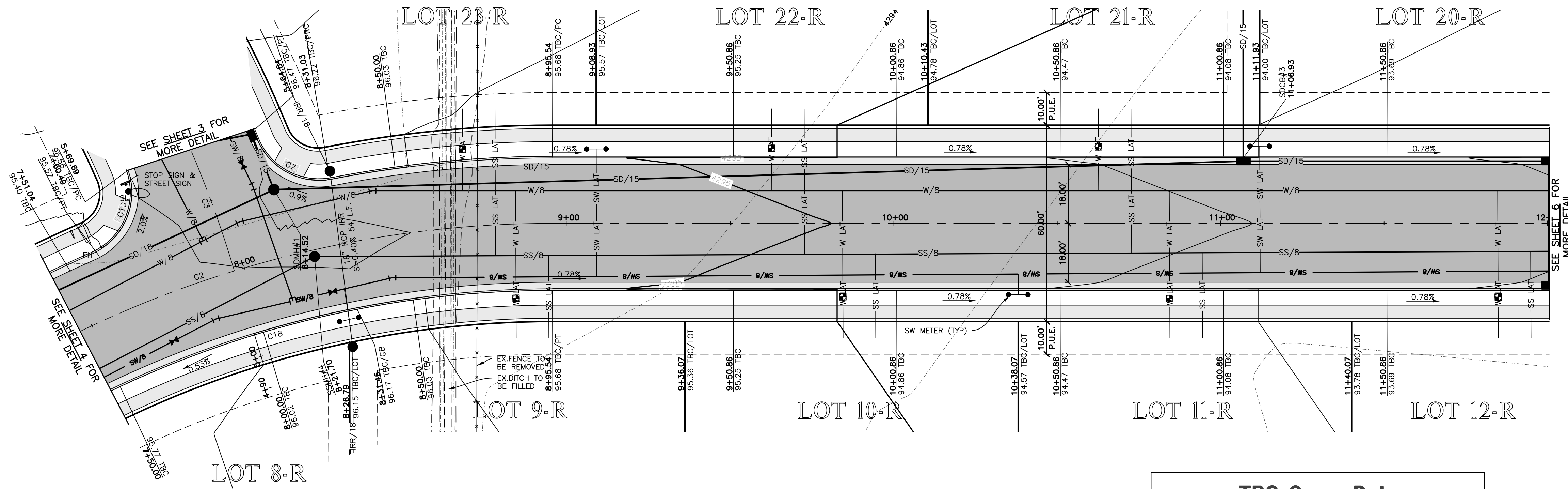
**Ashtlar Cove Subdivision**  
PART OF THE SE 1/4 OF SECTION 6 AND THE SW 1/4 OF SECTION 5,  
TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE BASE & MERIDIAN, U.S. SURVEY

**1225 NORTH 3+80.00 - 7+50.00**

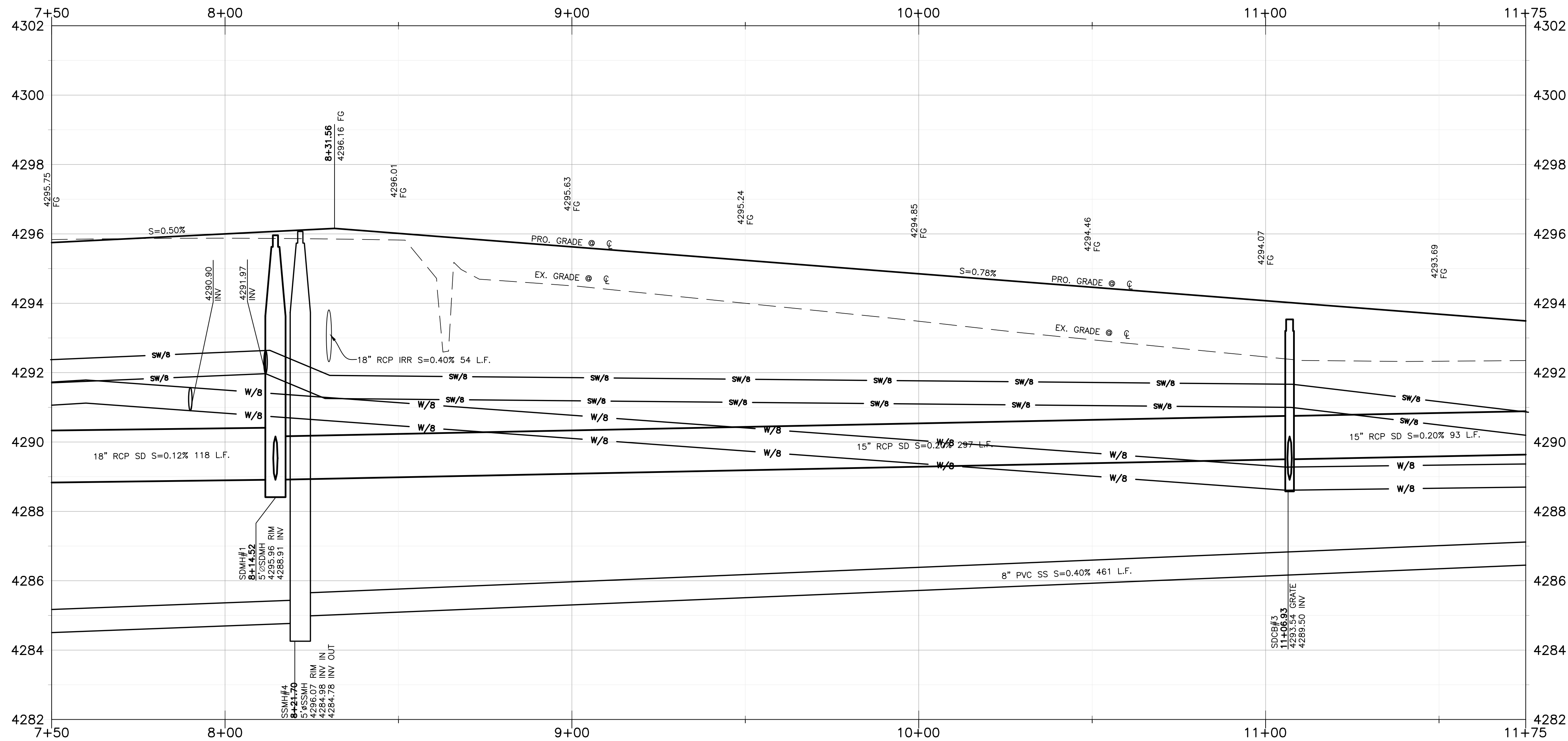
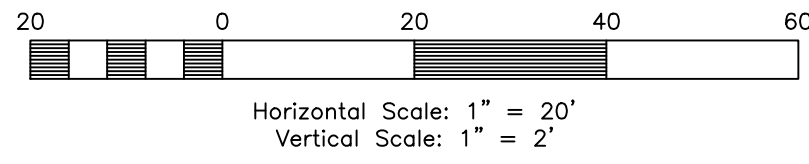


**Project Info.**  
Engineer: JEREMY A. DRAPER, P.E.  
Drafter: N. FICKLIN  
Begin Date: 11/10/2020  
Name: ASHLAR COVE MILNE PROPERTY  
Number: 4016-10

Sheet **4** of **16** Sheets

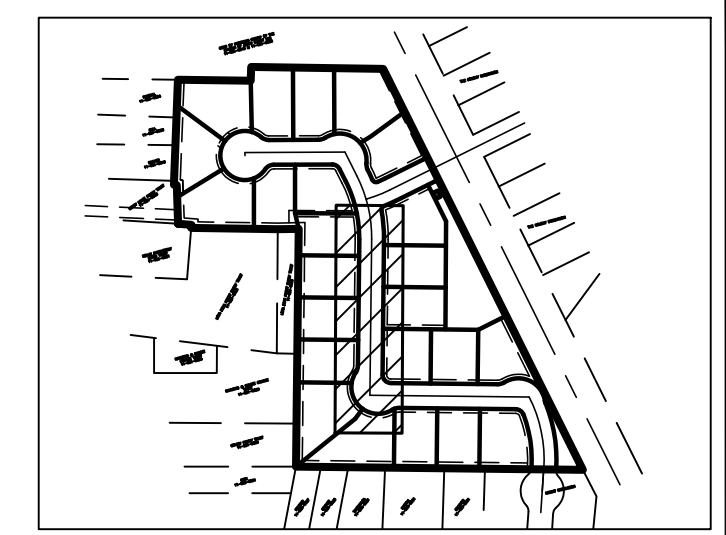


375 WEST 7+50.00 - 11+75.00



Key Map

NOT TO SCALE



Construction Notes:

- 1. ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF HARRISVILLE CITY.
2. CONSTRUCT HANDICAP RAMP PER ADA AND CITY REQUIREMENTS.

CULINARY WATER

W/8 - 8" PVC DR-18 C900 WATER LINE
W LAT - 3/4" COPPER PIPE, 5/8" METER

SANITARY SEWER

SS/8 - 8" PVC SDR-35 SEWER LINE
SS LAT - 4" PVC ASTM D-3034 SDR35

STORM DRAIN

SD/15 - 15" RCP CLASS III STORM DRAIN
SD/18 - 18" RCP CLASS III STORM DRAIN

SECONDARY WATER

SW/8 - 8" AWWA C900 DR 18 PURPLE
SW LAT - 1" POLYETHYLENE (PE) 200 PSI
CTS SECONDARY WATER LINE

SW LAT (DOUBLE) - 1 1/2" POLYETHYLENE (PE)
CTS SECONDARY WATER LINE

IRRIGATION

SD/18 - 18" RCP CLASS III STORM DRAIN

NOTE:

- 1. PROVIDE 18" CLEARANCE FOR WATER LATERALS & MAINS OVER SEWER.
2. DEPTH OF WATER TO BE 4" MIN. BELOW FINISHED GRADE.
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TBC Curve Data

Table with 7 columns: #, Delta, Radius, Length, Tangent, Chord, CH Length. Rows include C7, C10, and C18.

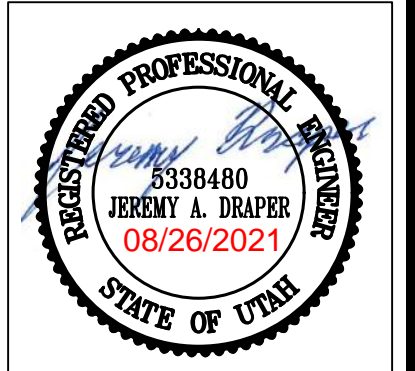
Centerline Curve Data

Table with 7 columns: #, Delta, Radius, Length, Tangent, Chord, CH Length. Row includes C2.

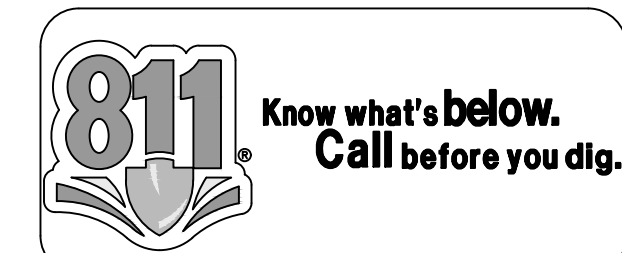
Reeve & Associates, Inc. logo and contact information including address (5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405) and phone number (801) 621-3100.

Revisions table with columns for REVISIONS, DESCRIPTION, and DATE.

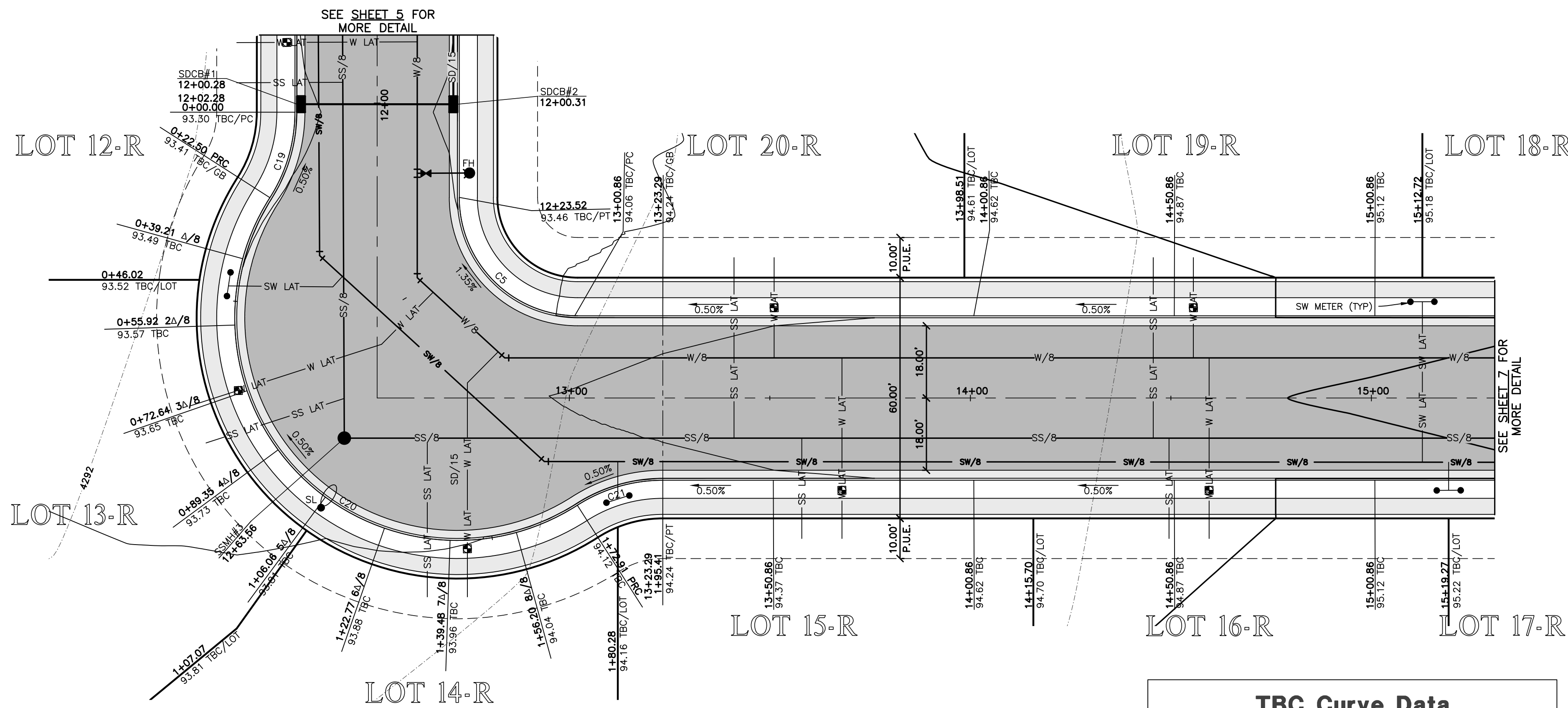
Project title: Ashlar Cove Subdivision. Location: PART OF THE SE 1/4 OF SECTION 6 AND THE SW 1/4 OF SECTION 5, TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE BASE & MERIDIAN, U.S. SURVEY. HARRISVILLE CITY, WEBER COUNTY UTAH. Project address: 375 WEST 7+50.00 - 11+75.00.



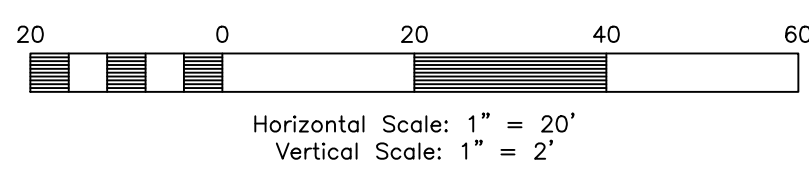
Project Info. Engineer: JEREMY A. DRAPER, P.E. Drafter: N. FICKLIN. Begin Date: 11/10/2020. Name: ASHLAR COVE MILNE PROPERTY. Number: 4016-10.



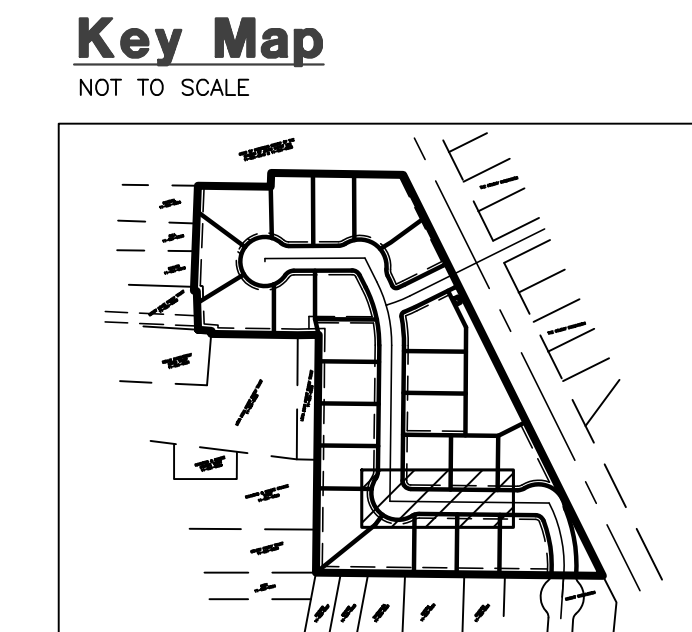
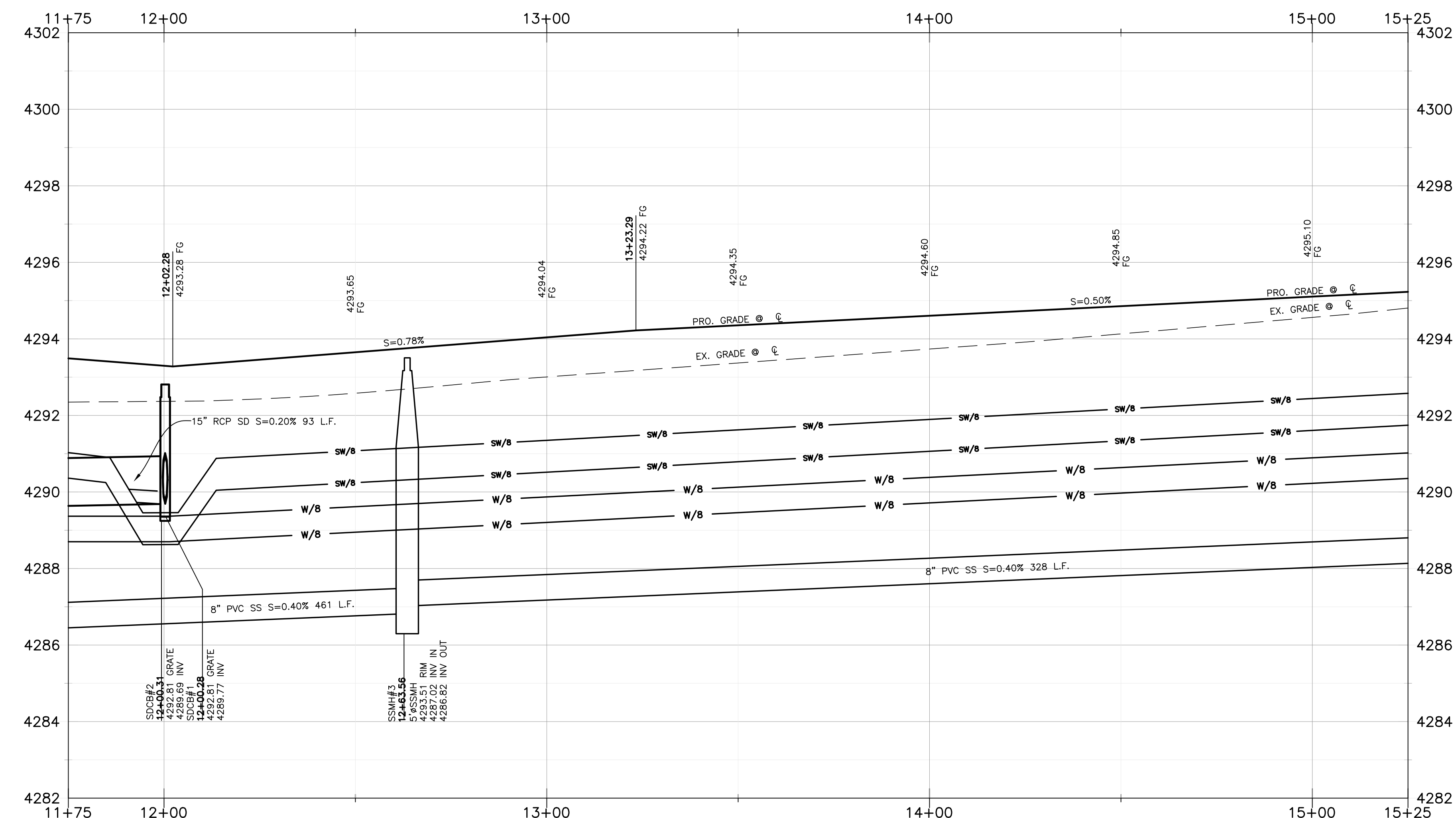




1125 NORTH 11+75.00 - 15+25.00



#	Delta	Radius	Length	Tangent	Chord	CH Length
C5	90°00'02"	29.50'	46.34'	29.50'	S44°22'04"E	41.72'
C19	32°38'13"	39.50'	22.50'	11.56'	N16°57'03"W	22.20'
C20	155°16'27"	55.50'	150.41'	253.21'	N44°22'04"W	108.43'
C21	32°38'13"	39.50'	22.50'	11.56'	S74°18'49"W	22.20'



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 W/LAT - 3/4" COPPER PIPE, 5/8" METER
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 SS/8 - 8" PVC SDR-35 SEWER LINE  
 SS/LAT - 4" PVC ASTM D-3034 SDR35
- STORM DRAIN**  
 SD/15 - 15" RCP CLASS III STORM DRAIN  
 SD/18 - 18" RCP CLASS III STORM DRAIN
- SECONDARY WATER**  
 SW/8 - 8" AWWA C900 DR 18 PURPLE  
 SW/LAT - 1" POLYETHYLENE (PE) 200 PSI  
 CTS SECONDARY WATER LINE
- SW/LAT (DOUBLE) - 1 1/2" POLYETHYLENE (PE)  
 CTS SECONDARY WATER LINE**
- IRRIGATION**  
 SD/18 - 18" RCP CLASS III STORM DRAIN

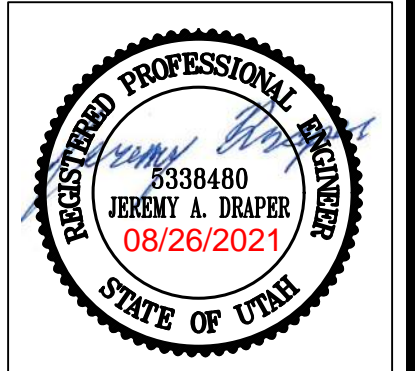
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REVISIONS	DESCRIPTION

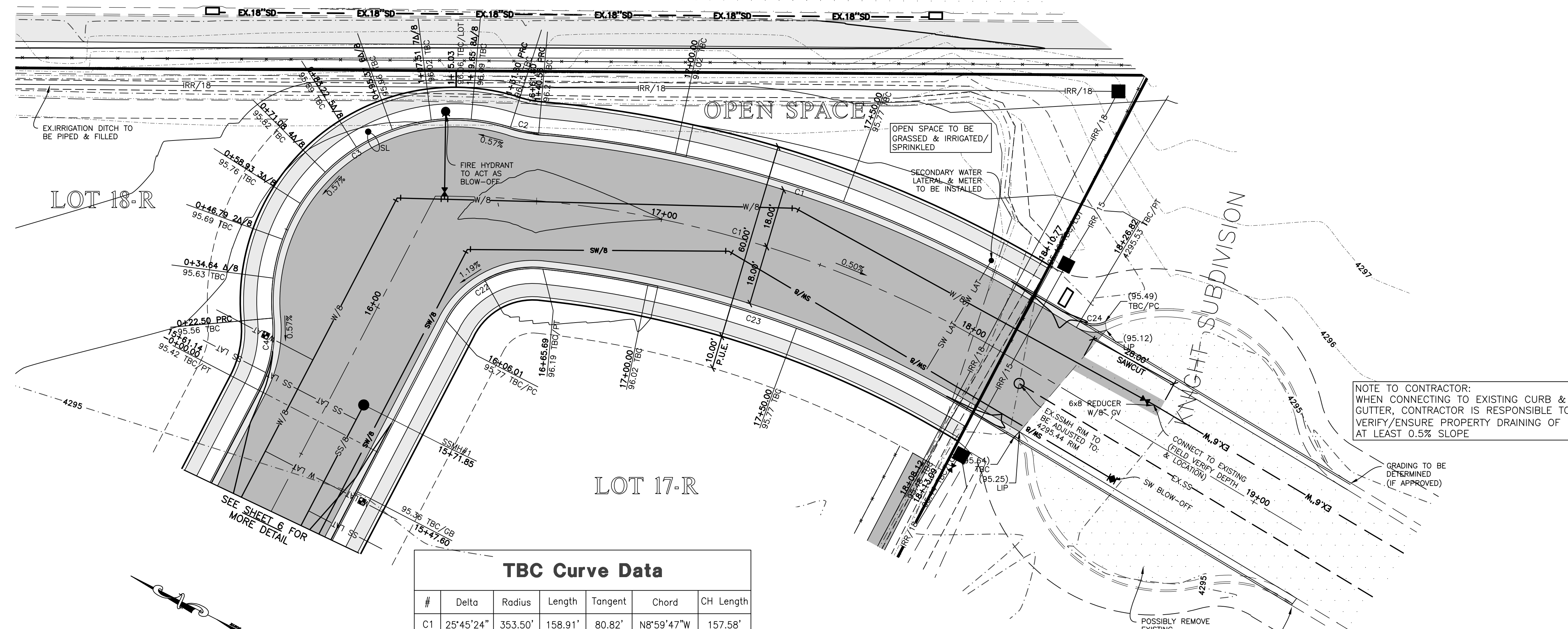
**Ashlar Cove Subdivision**  
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 HARRISVILLE CITY, WEBER COUNTY UTAH

**1125 NORTH 11+75.00 - 15+25.00**

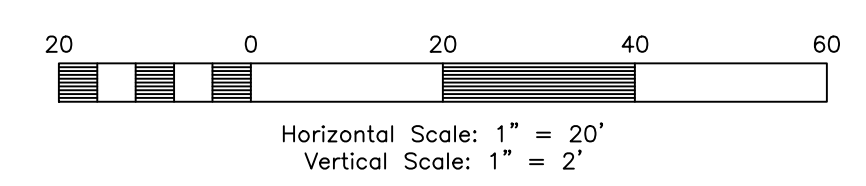


**Project Info.**  
 Engineer: JEREMY A. DRAPER, P.E.  
 Drafter: N. FICKLIN  
 Begin Date: 11/10/2020  
 Name: ASHLAR COVE MILNE PROPERTY  
 Number: 4016-10

Sheet **6** of **16** Sheets



**325 WEST 15+25.00 - 19+00.00**

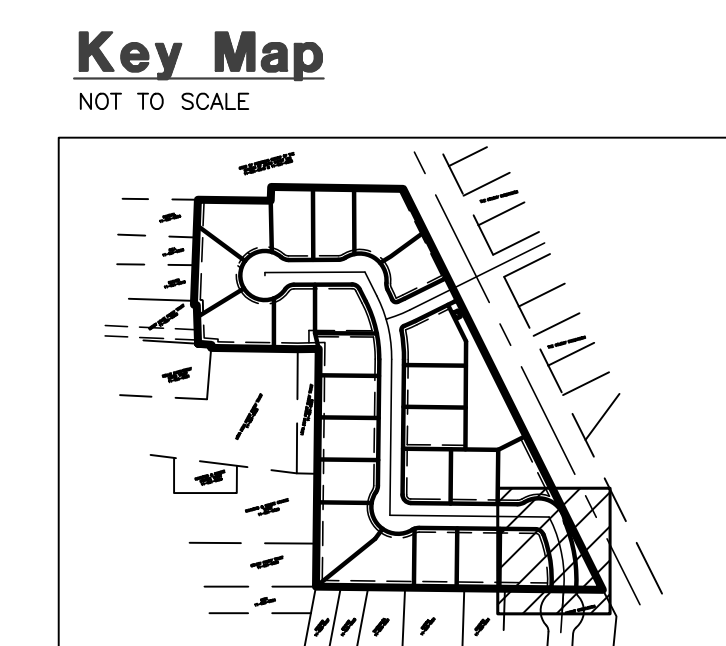
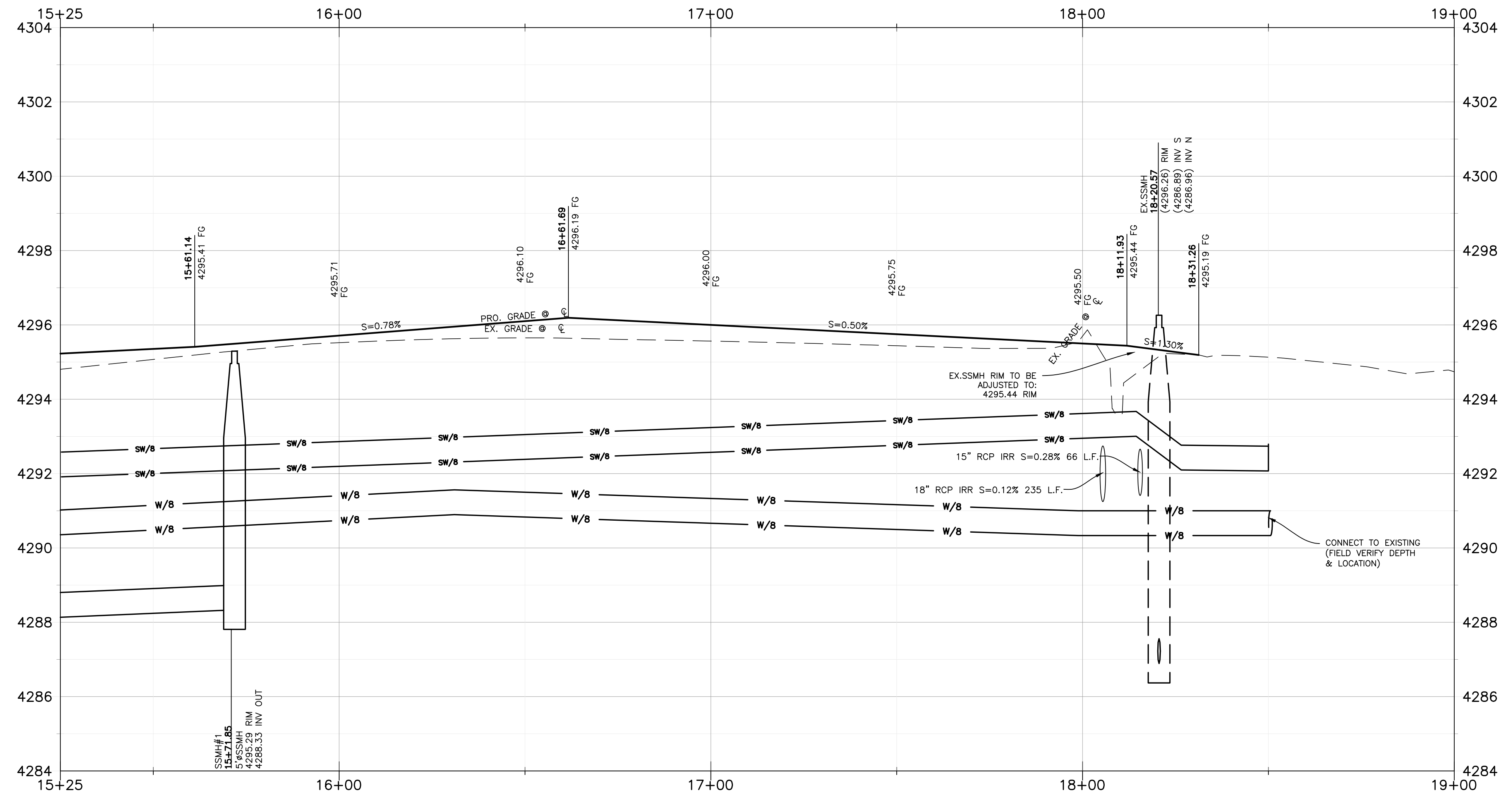


**TBC Curve Data**

#	Delta	Radius	Length	Tangent	Chord	CH Length
C1	25°45'24"	353.50'	158.91'	80.82'	N8°59'47"W	157.58'
C2	12°42'14"	39.50'	8.76'	4.40'	S15°31'22"E	8.74'
C3	97°48'08"	55.50'	94.74'	63.62'	N58°04'19"W	83.65'
C22	68°22'54"	29.50'	35.21'	20.04'	N55°10'38"W	33.16'
C23	24°52'06"	312.50'	135.64'	68.90'	N8°33'08"W	134.57'
C24	54°48'28"	8.00'	7.65'	4.15'	S23°31'19"E	7.36'

**Centerline Curve Data**

#	Delta	Radius	Length	Tangent	Chord	CH Length
C1	24°52'06"	333.00'	144.53'	73.42'	S8°33'08"E	143.40'



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- STORM DRAIN**  
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 SD/18 - 18" RCP CLASS III STORM DRAIN
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 SD/18 - 18" RCP CLASS III STORM DRAIN

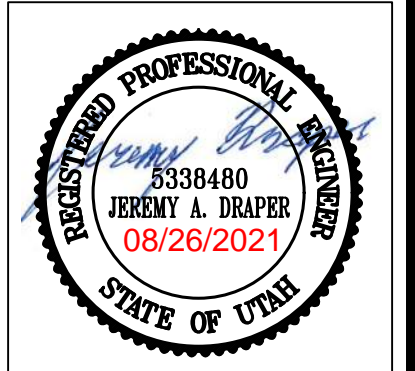
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REVISIONS	DESCRIPTION
DATE	

**Ashlar Cove Subdivision**  
 PART OF THE SE 1/4 OF SECTION 6 AND THE SW 1/4 OF SECTION 5,  
 TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE BASE & MERIDIAN, U.S. SURVEY  
 HARRISVILLE CITY, WEBER COUNTY UTAH

**325 WEST 15+25.00 - 19+00.00**

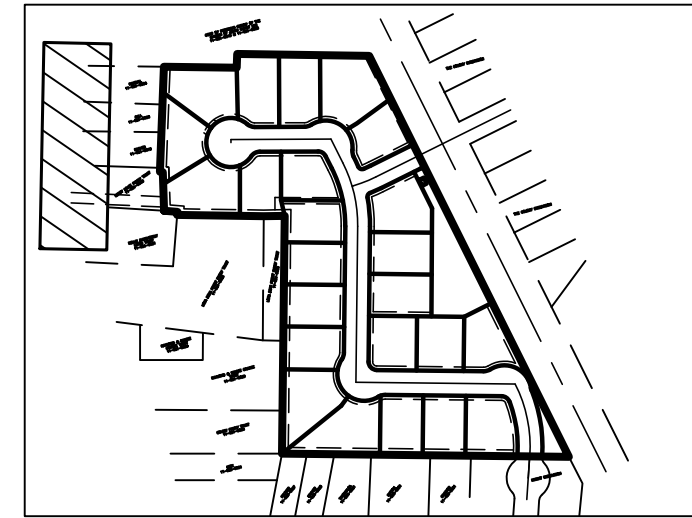


**Project Info.**  
 Engineer: JEREMY A. DRAPER, P.E.  
 Drafter: N. FICKLIN  
 Begin Date: 11/10/2020  
 Name: ASHLAR COVE MILNE PROPERTY  
 Number: 4016-10

Sheet **7** of 16 Sheets

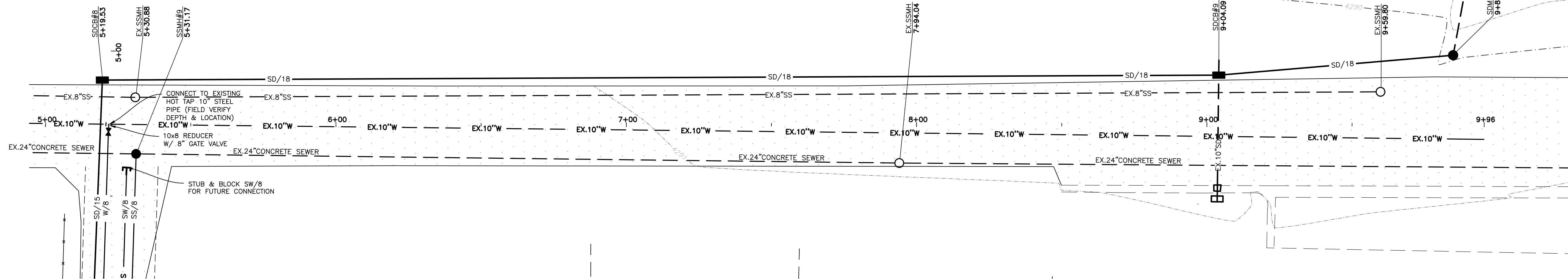
**Key Map**

NOT TO SCALE

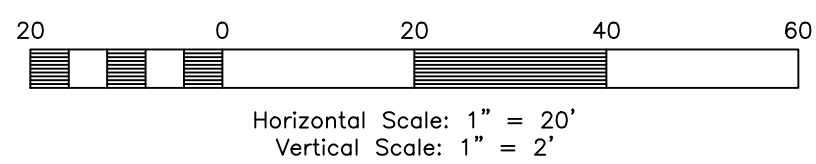


- NOTES:**
1. 18" RCP STORM DRAIN TO BE 6' FROM EX.8" SEWER.
  2. 18" RCP STORM DRAIN TO BE 5'-6" DEEP.
  3. REMOVE EX.12" RCP AND REPLACE WITH 18" RCP.
  4. WHEN REPLACING EX.12" PIPE WITH 18" RCP, CONTRACTOR MUST MAINTAIN INVERT OUT.
  5. EX.DRIVEWAYS TO BE PAVED TO ORIGINAL ELEVATIONS PRIOR TO CONSTRUCTION.
  6. CONNECT EX.10" SD TO SDCB#9. FIELD VERIFY DEPTH & LOCATION OF EXISTING PIPE.

REPLACE EXIST. 12" WITH NEW 18" RCP TO CREEK



**HARRISVILLE RD 5+00.00 - 10+00.00**



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**SECONDARY WATER**

SW/8 - 8" AWWA C900 DR 18 PURPLE  
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CTS SECONDARY WATER LINE

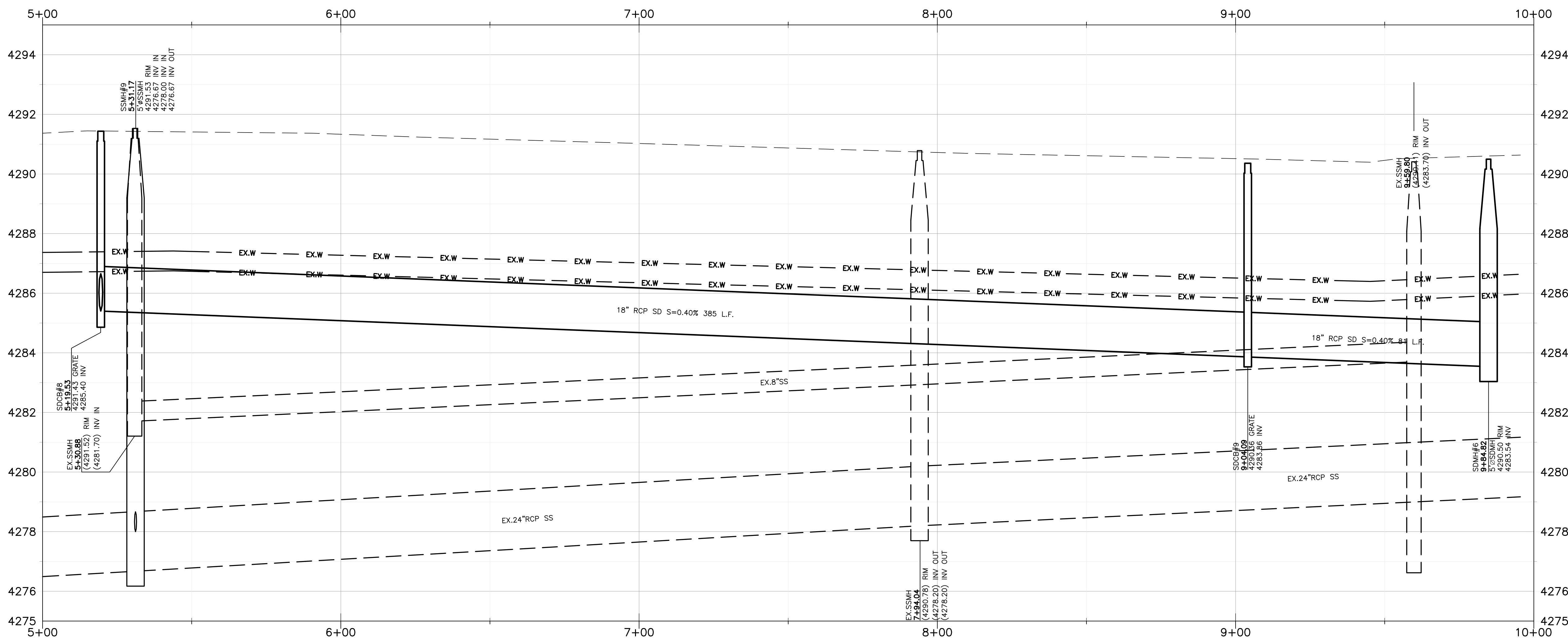
SW LAT (DOUBLE) - 1/2" POLYETHYLENE (PE)  
CTS SECONDARY WATER LINE

**IRRIGATION**

SD/18 - 18" RCP CLASS III STORM DRAIN

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DATE	

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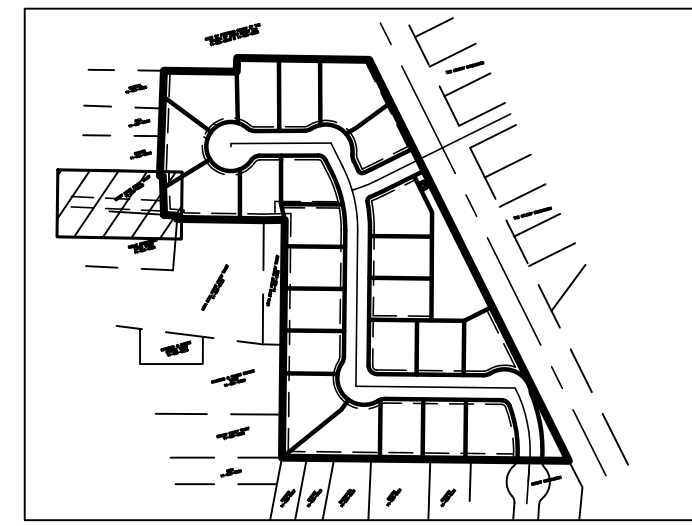
**HARRISVILLE RD 5+00.00 - 10+00.00**



**Project Info.**  
 Engineer: JEREMY A. DRAPER, P.E.  
 Drafter: N. FICKLIN  
 Begin Date: 11/10/2020  
 Name: ASHLAR COVE MILNE PROPERTY  
 Number: 4016-10

**Key Map**

NOT TO SCALE



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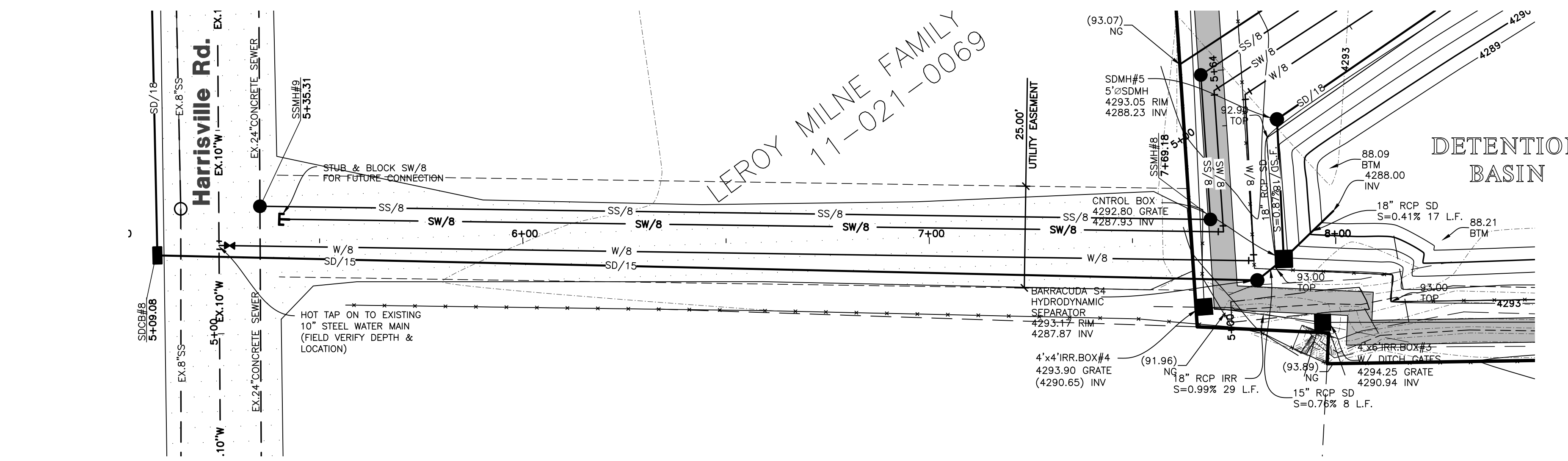
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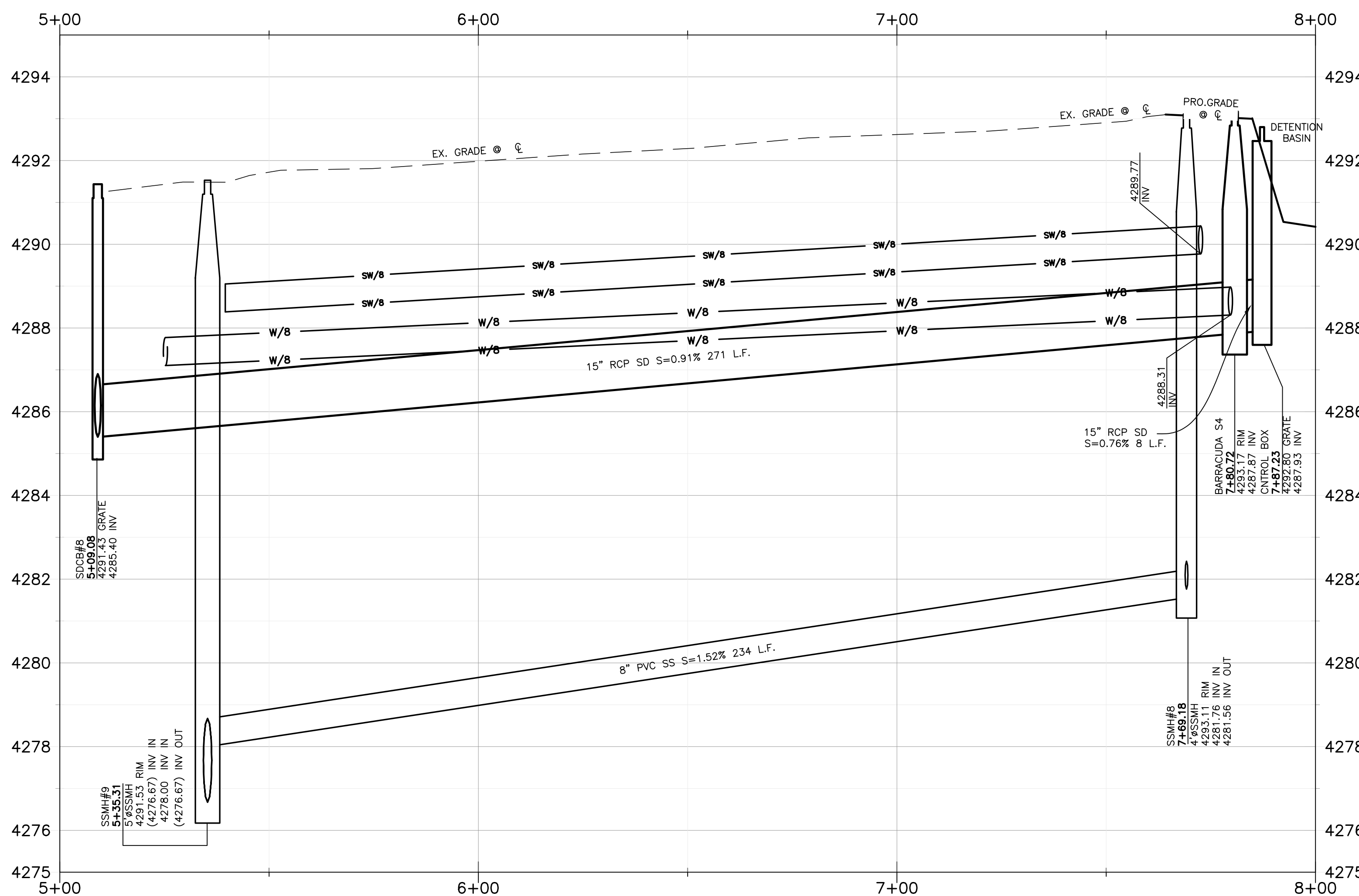
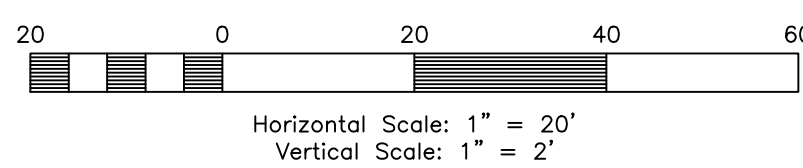
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LEROY MILNE FAMILY  
11-021-0069

**UTILITY OUTFALL A  
5+00.00 - 8+00.00**



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**UTILITY OUTFALL A 5+00.00 - 8+00.00**

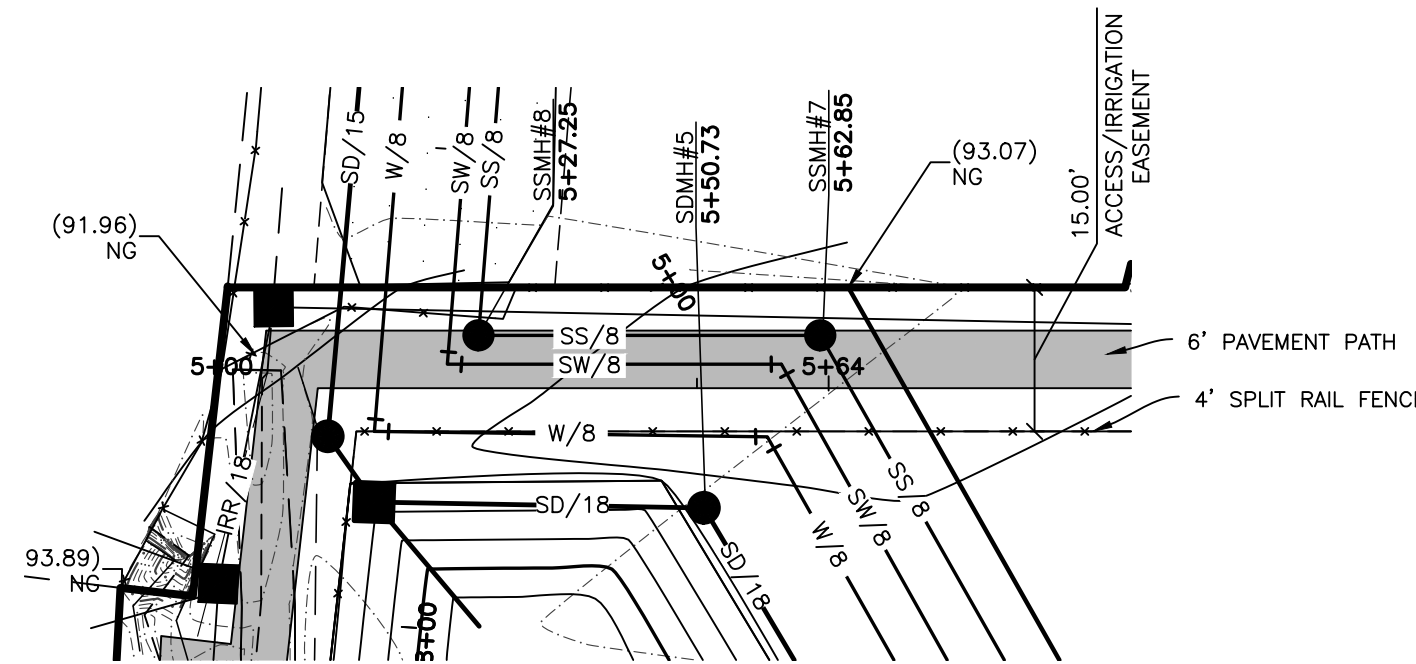
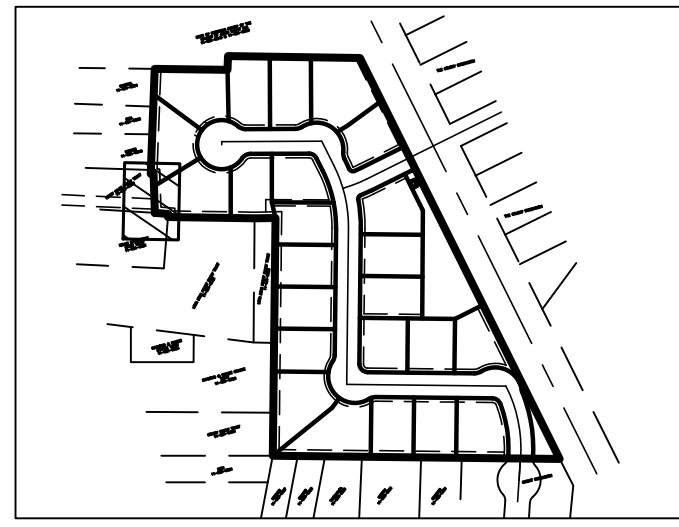


**Project Info.**  
Engineer: JEREMY A. DRAPER, P.E.  
Draftsman: N. FICKLIN  
Begin Date: 11/10/2020  
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Number: 4016-10

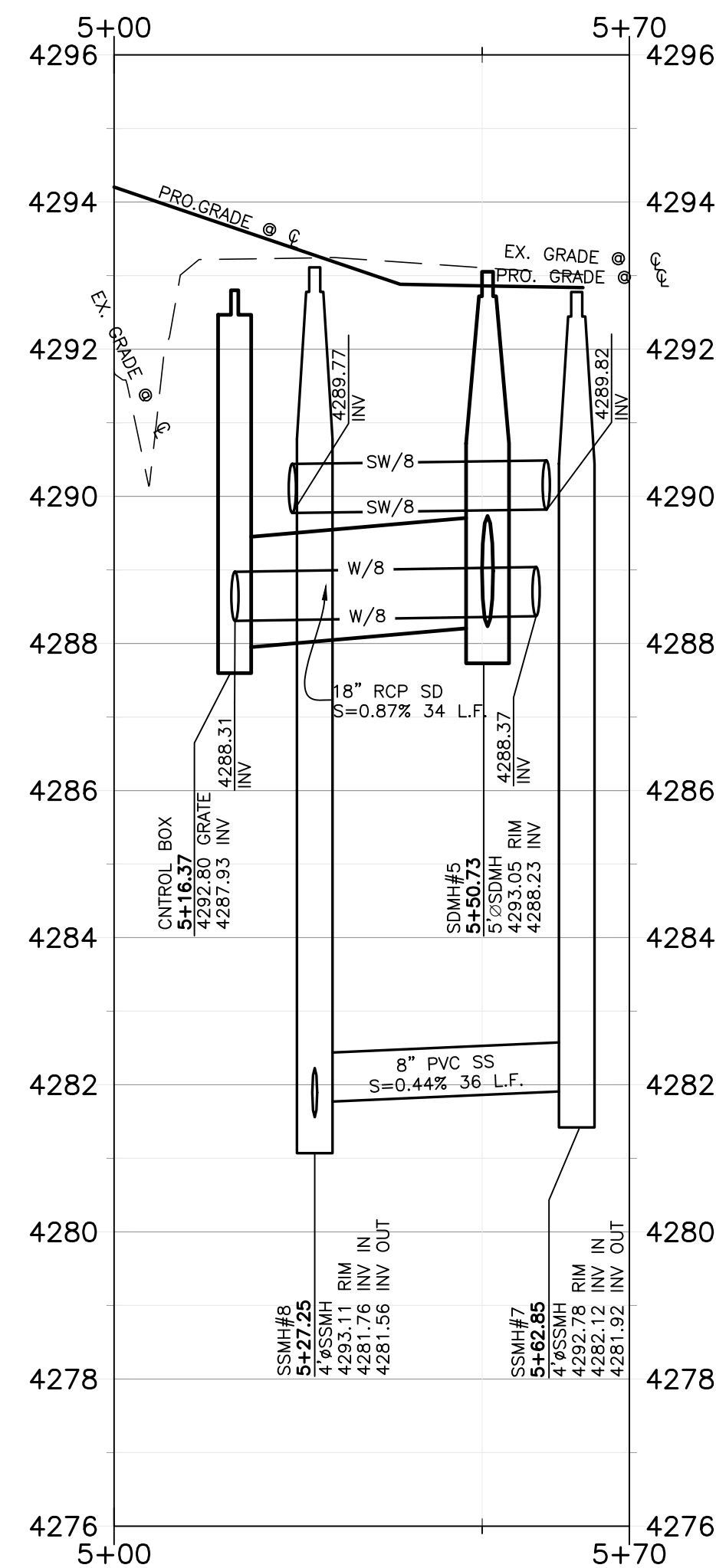
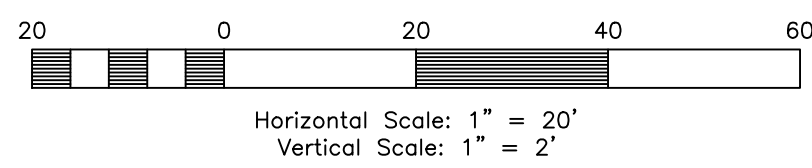
Sheet **9** of **16**  
Sheets

Key Map

NOT TO SCALE

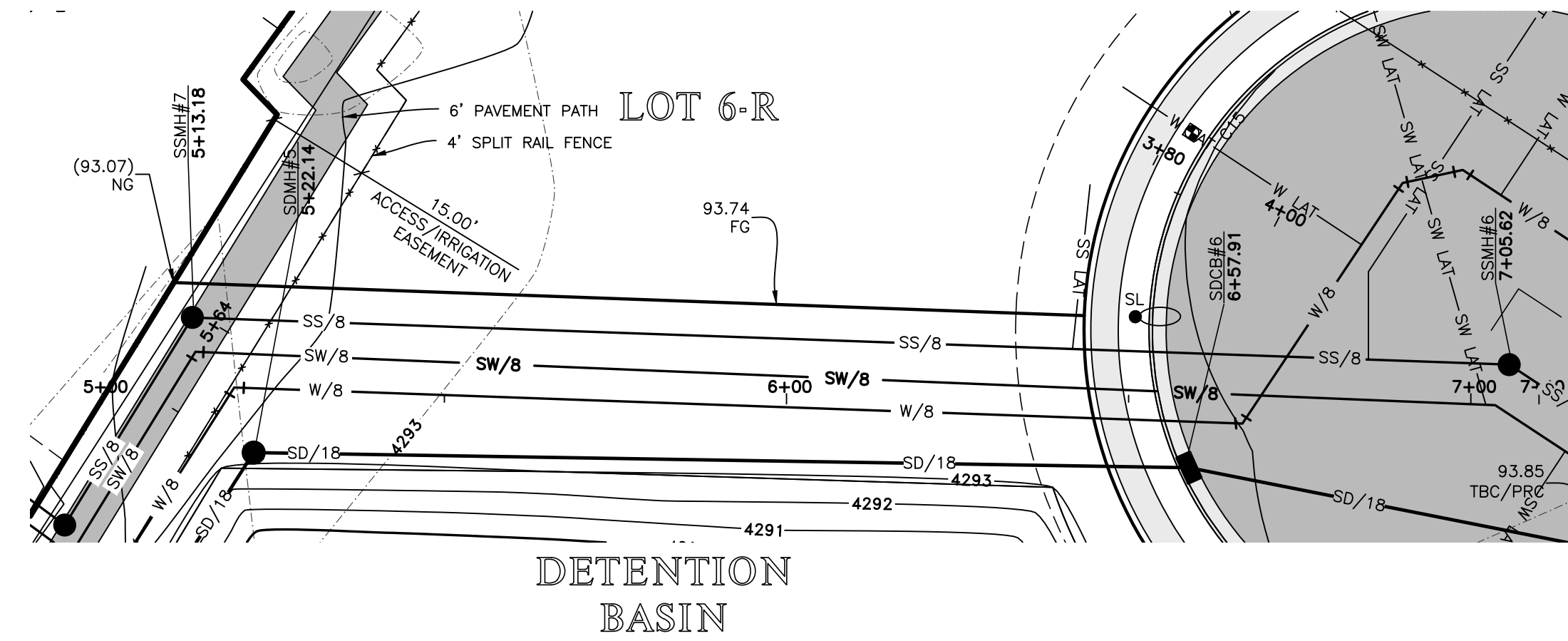
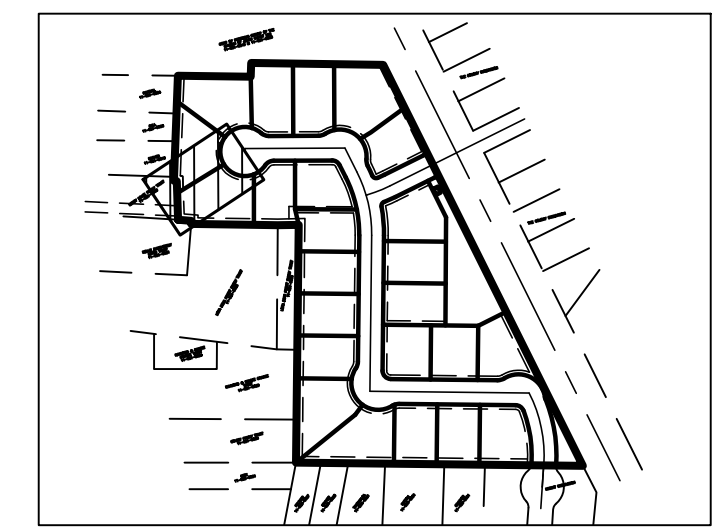


UTILITY OUTFALL B  
5+00.00 - 5+70.00



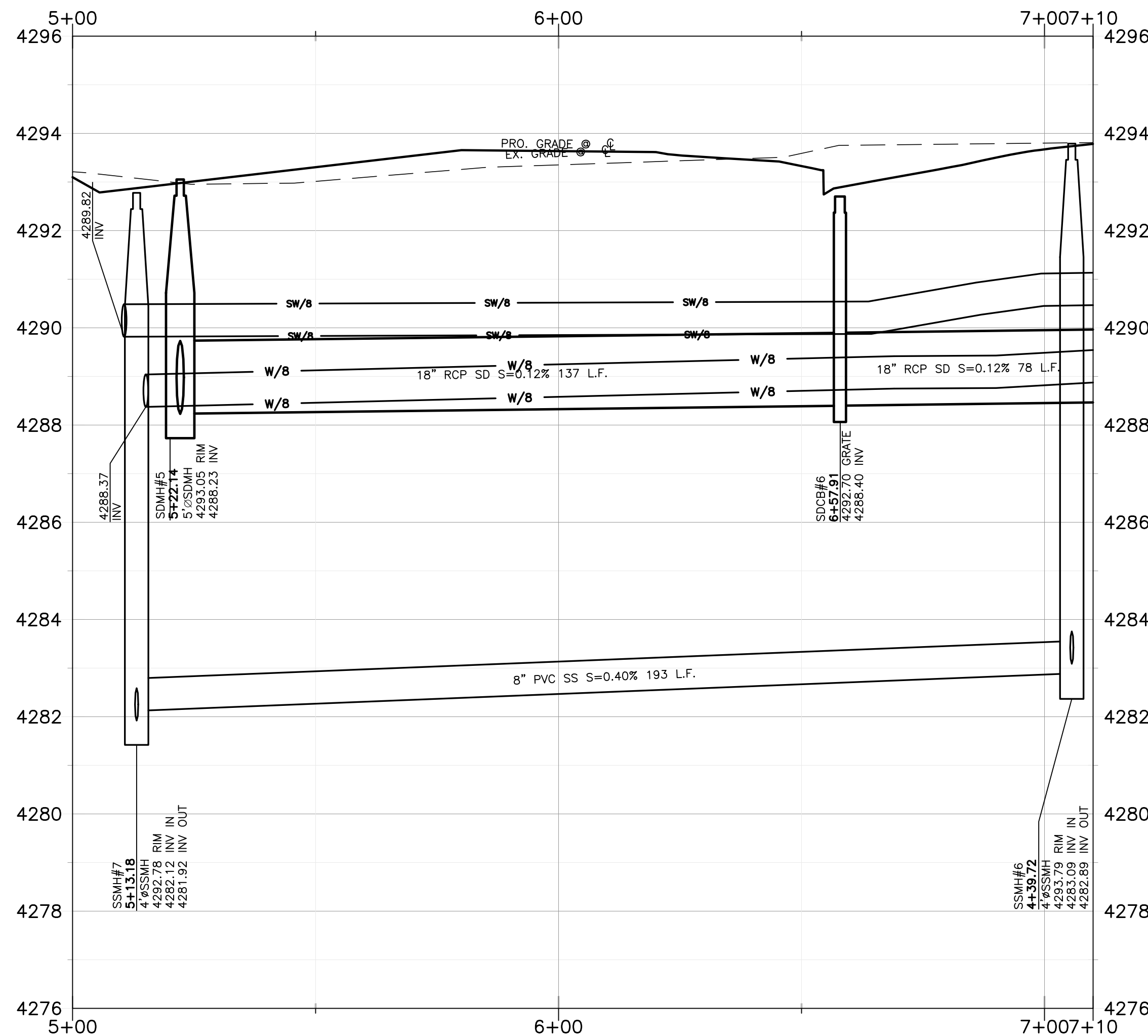
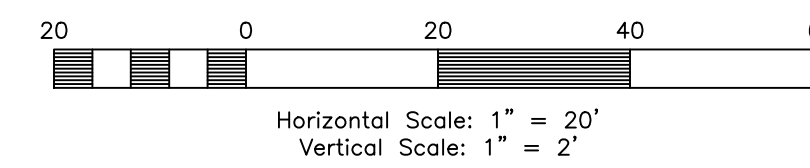
Key Map

NOT TO SCALE



DETENTION BASIN

UTILITY OUTFALL C  
5+00.00 - 7+10.00



Construction Notes:

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2. CONSTRUCT HANDICAP RAMP PER ADA AND CITY REQUIREMENTS.

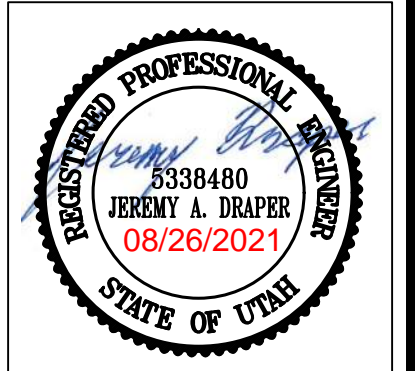
- CULINARY WATER
W/8 - 8" PVC DR-18 C900 WATER LINE
W LAT - 3/4" COPPER PIPE, 5/8" METER
SANITARY SEWER
SS/8 - 8" PVC SDR-35 SEWER LINE
SS LAT - 4" PVC ASTM D-3034 SDR35
STORM DRAIN
SD/15 - 15" RCP CLASS III STORM DRAIN
SD/18 - 18" RCP CLASS III STORM DRAIN
SECONDARY WATER
SW/8 - 8" AWWA C900 DR 18 PURPLE
SW LAT - 1" POLYETHYLENE (PE) 200 PSI
CTS SECONDARY WATER LINE
SW LAT (DOUBLE) - 1 1/2" POLYETHYLENE (PE)
CTS SECONDARY WATER LINE
IRRIGATION
SD/18 - 18" RCP CLASS III STORM DRAIN

- NOTE:
1. PROVIDE 18" CLEARANCE FOR WATER LATERALS & MAINS OVER SEWER.
2. DEPTH OF WATER TO BE 4' MIN. BELOW FINISHED GRADE.
3. CULINARY WATER TO BE INSTALLED PER BONA VISTA STANDARDS.
4. ALL EXISTING DITCHES THAT ARE BEING FILLED IN, MUST HAVE STRUCTURAL FILL IN ALL RIGHT-OF-WAY AND BUILDING FOOTPRINTS.
5. DURING CONSTRUCTION THE CONTRACTOR WILL ENSURE THAT FENCING IS REPLACED, TEMPORARY FENCING IS USED AS NECESSARY, DAMAGE TO PROPERTY IS RESTORED, AND THE THAT TEMPORARY BYPASSING OF THE DITCH FLOWS IS INSTALLED TO ENSURE UNINTERRUPTED DELIVERY OF WATER TO DOWNSTREAM USERS.
6. ALL EXISTING FENCING WITHIN PROPERTY TO BE REMOVED.
7. ALL IRRIGATION LATERALS AND HEADGATES TO BE MAINTAINED & OPERATED BY IRRIGATION COMPANY.
8. PVC SLEEVES TO BE INSTALLED UNDER PATHWAY FOR SPRINKLER USE.
9. CONTRACTOR TO INSTALL ALL SLEEVES AS REQUIRED FOR THE RESIDENTIAL DEVELOPMENT.



Table with 2 columns: REVISIONS, DESCRIPTION. Includes a date field.

Ashlar Cove Subdivision
PART OF THE SE 1/4 OF SECTION 6 AND THE SW 1/4 OF SECTION 5, TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE BASE & MERIDIAN, U.S. SURVEY HARRISVILLE CITY, WEBER COUNTY UTAH
UTILITY OUTFALL B 5+00.00 - 5+70.00
UTILITY OUTFALL C 5+00.00 - 7+10.00

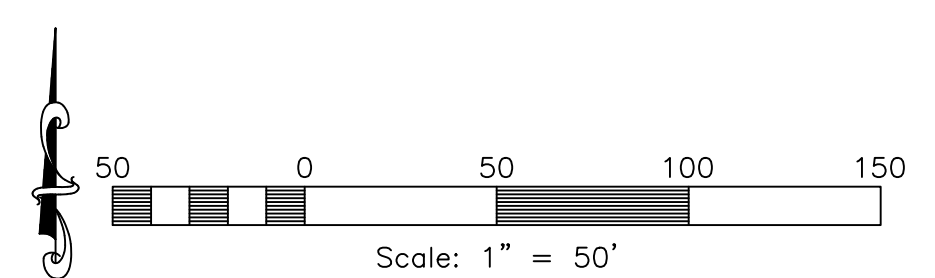
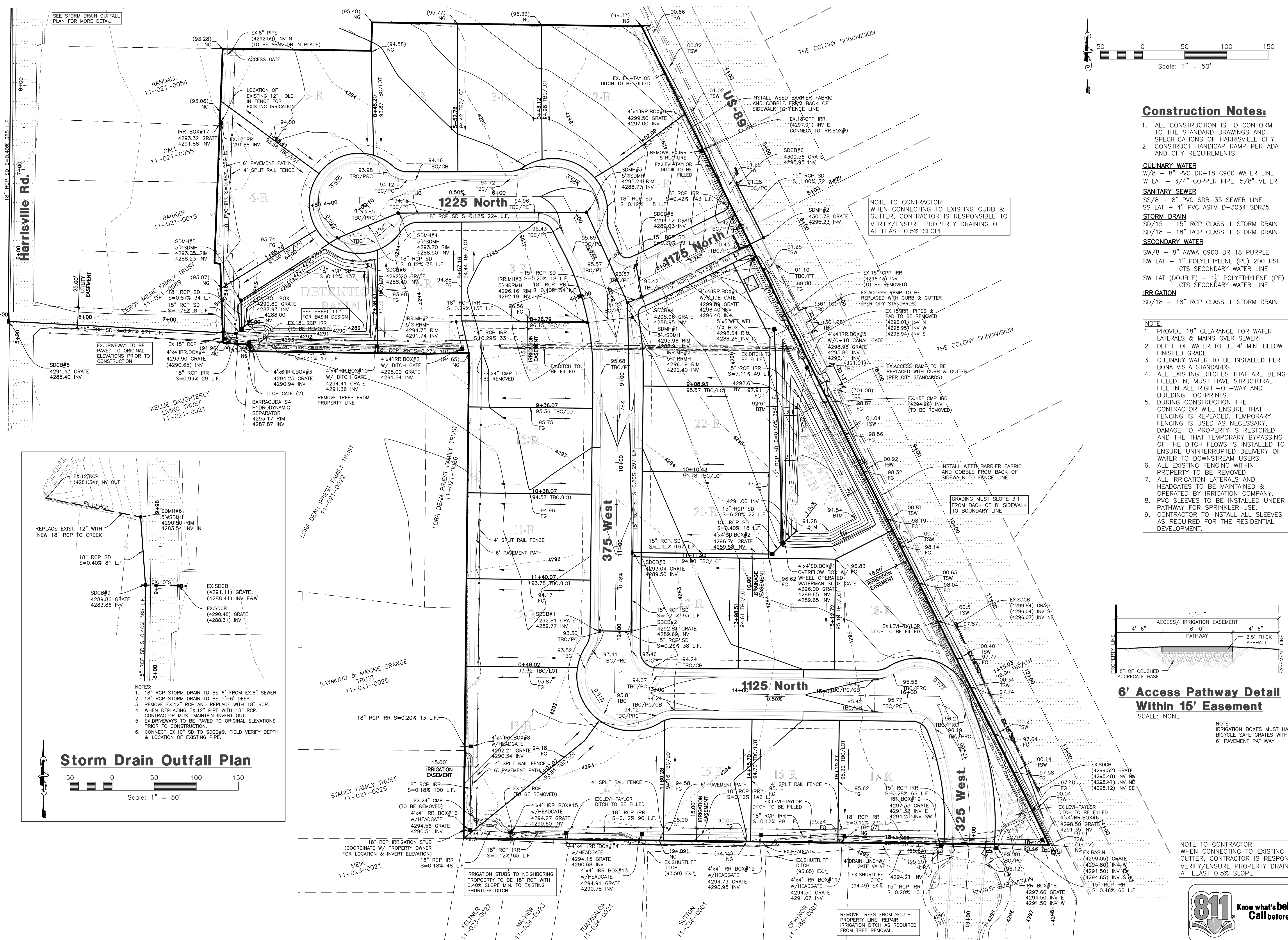


Project Info:
Engineer: JEREMY A. DRAPER, P.E.
Drafter: N. FICKLIN
Begin Date: 11/10/2020
Name: ASHLAR COVE MILNE PROPERTY
Number: 4016-10

Sheet 10 of 16

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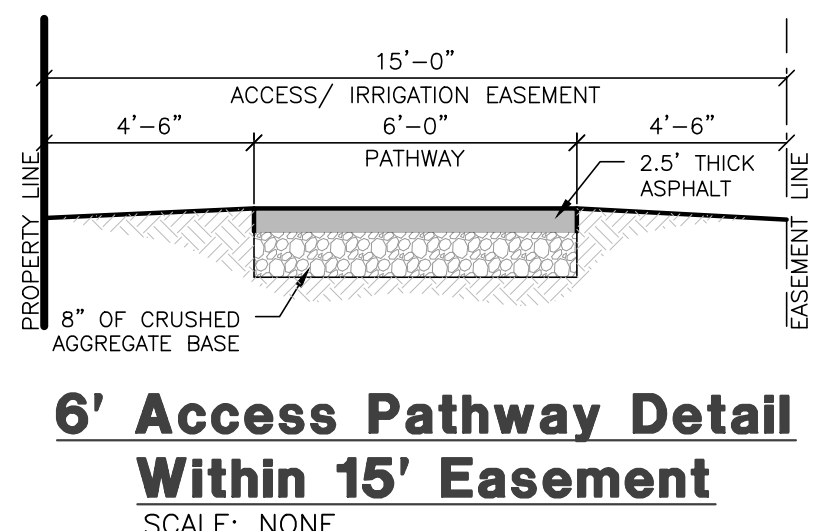
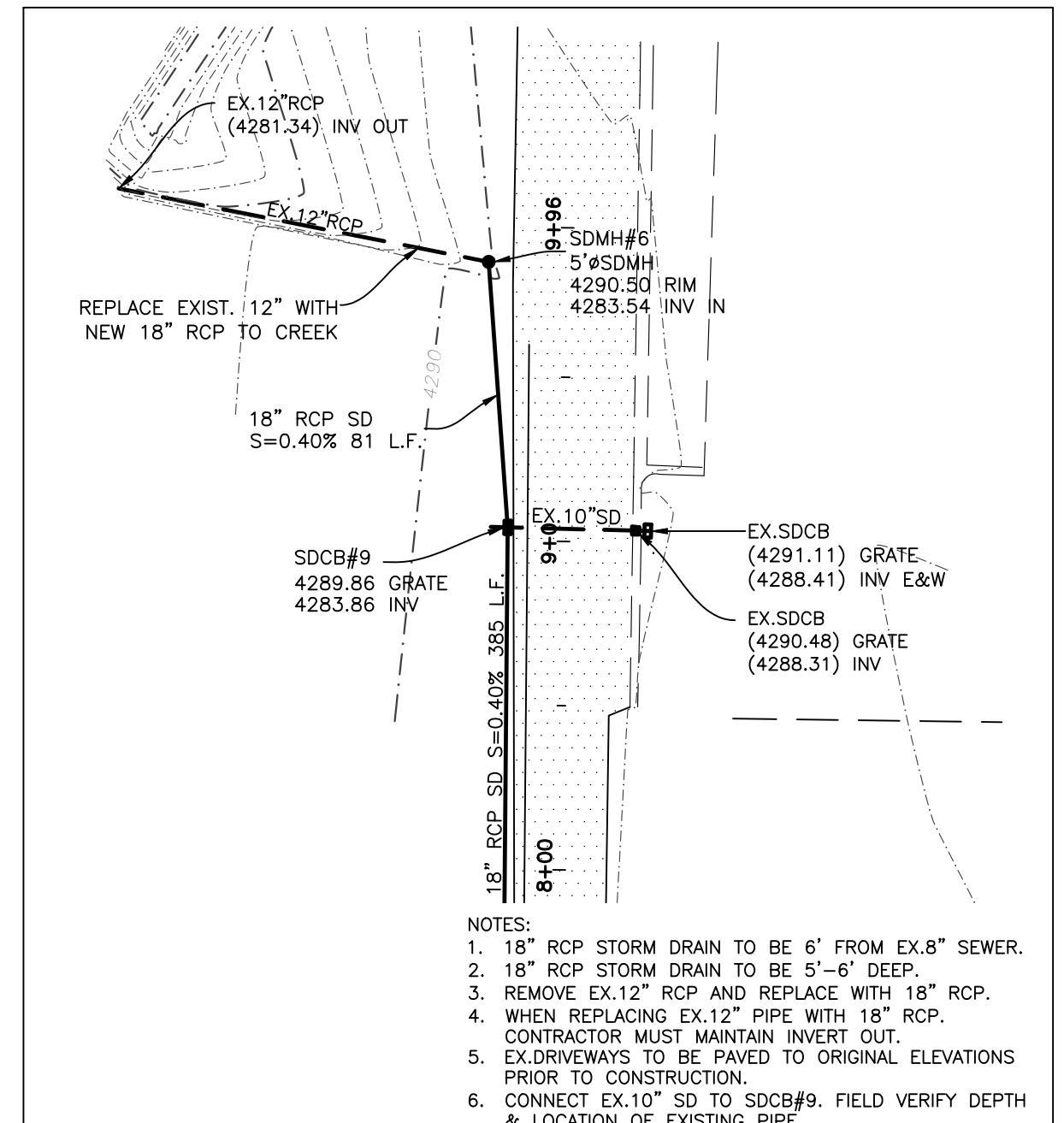
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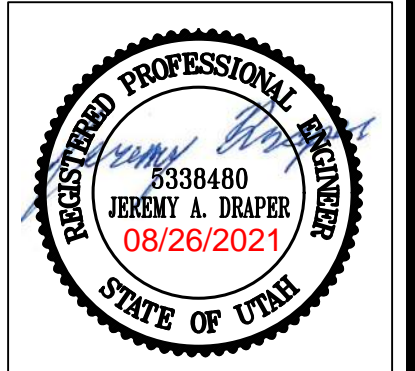
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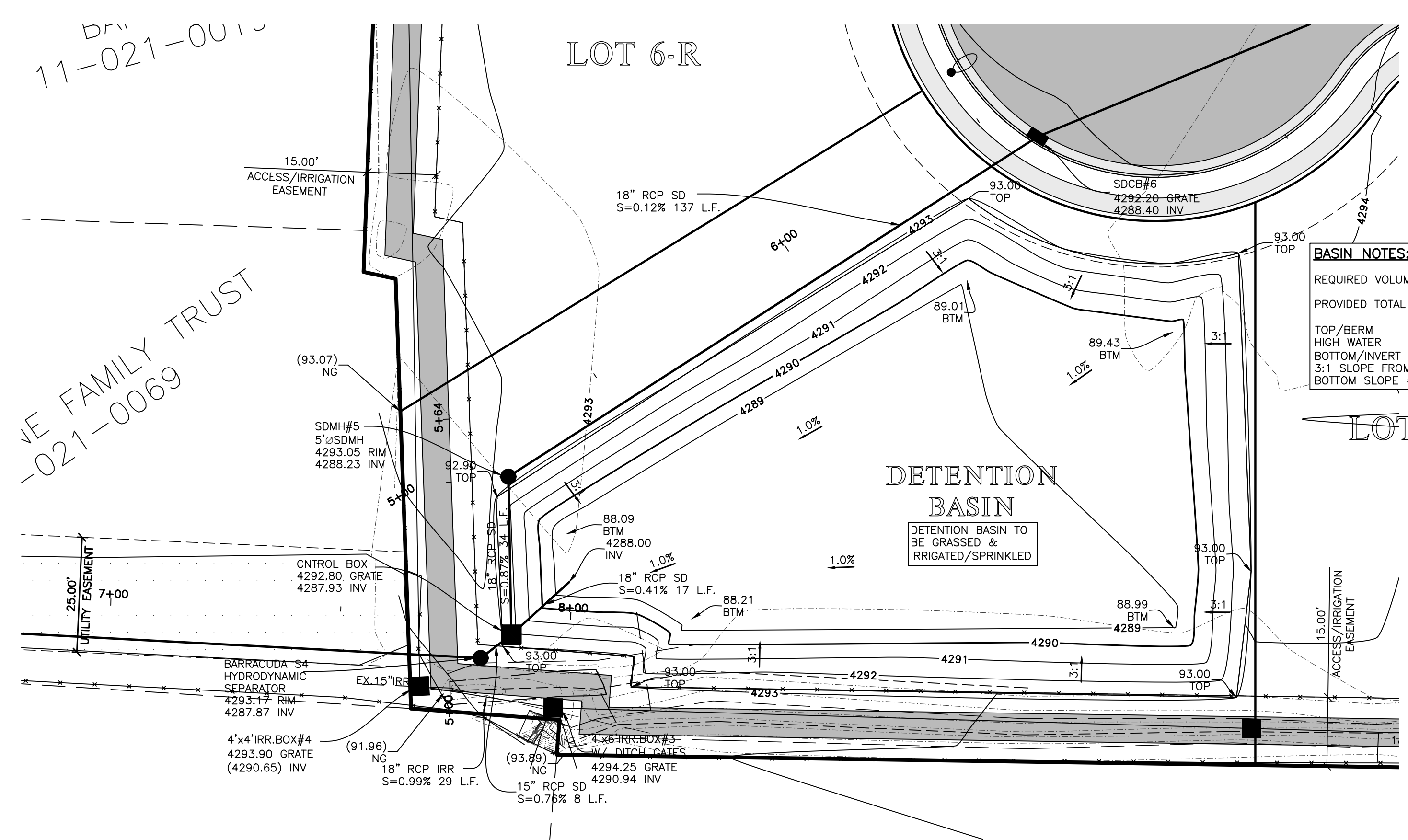
REVISIONS	DESCRIPTION	DATE

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HARRISVILLE CITY, WEBER COUNTY UTAH

**Grading Plan**

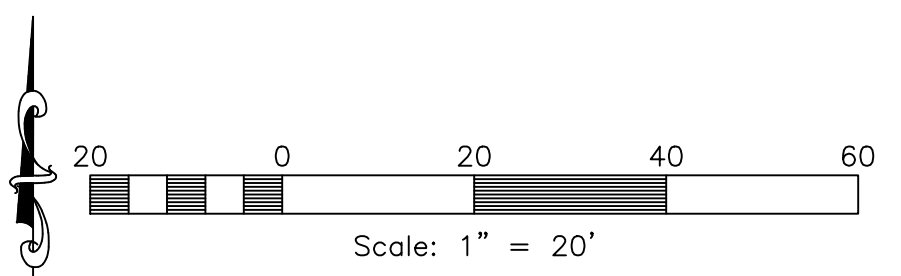


**Project Info.**  
Engineer: JEREMY A. DRAPER, P.E.  
Drafter: N. FICKLIN  
Begin Date: 11/10/2020  
Name: ASHLAR COVE MILNE PROPERTY  
Number: 4016-10



**BASIN NOTES:**

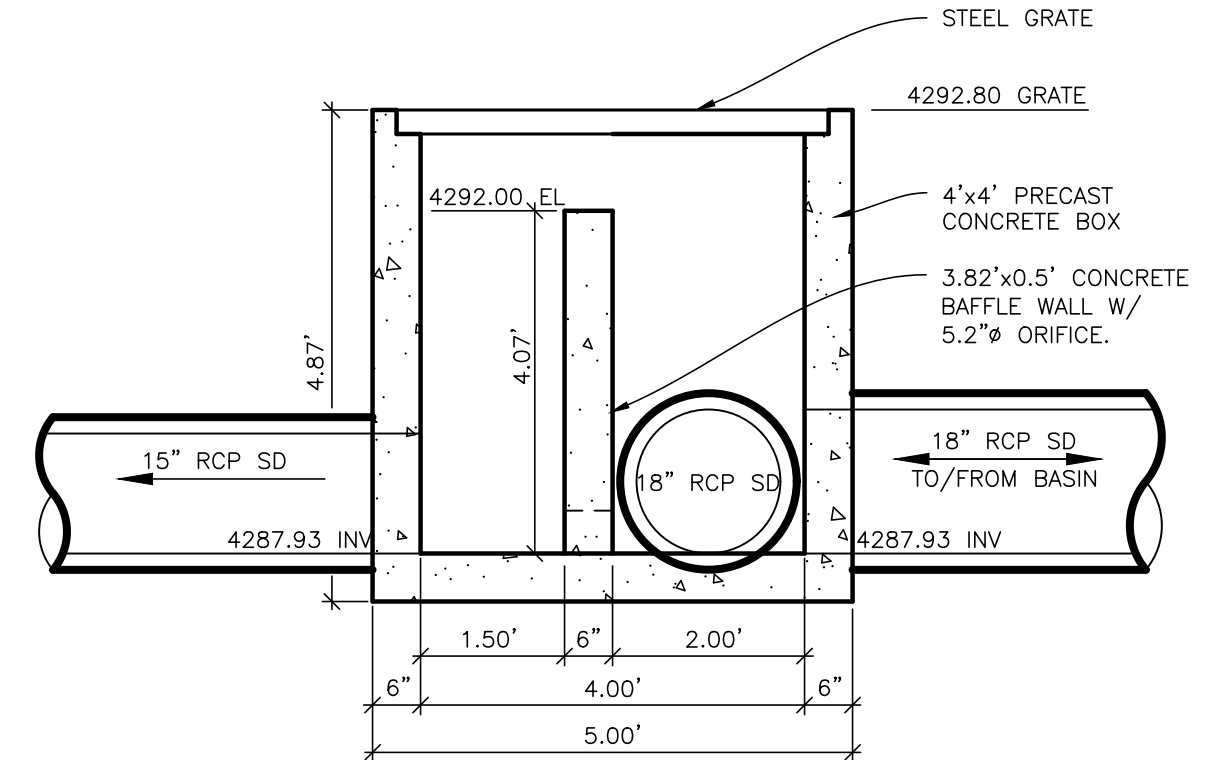
- REQUIRED VOLUME = 26,808 c.f.
- PROVIDED TOTAL = 30,390 c.f.
- TOP/BERM HIGH WATER = 4293.00 Elev.
- BOTTOM/INVERT IN 3:1 SLOPE FROM TOP TO BOTTOM = 4288.00 Elev.
- BOTTOM SLOPE = 1.00% MIN.



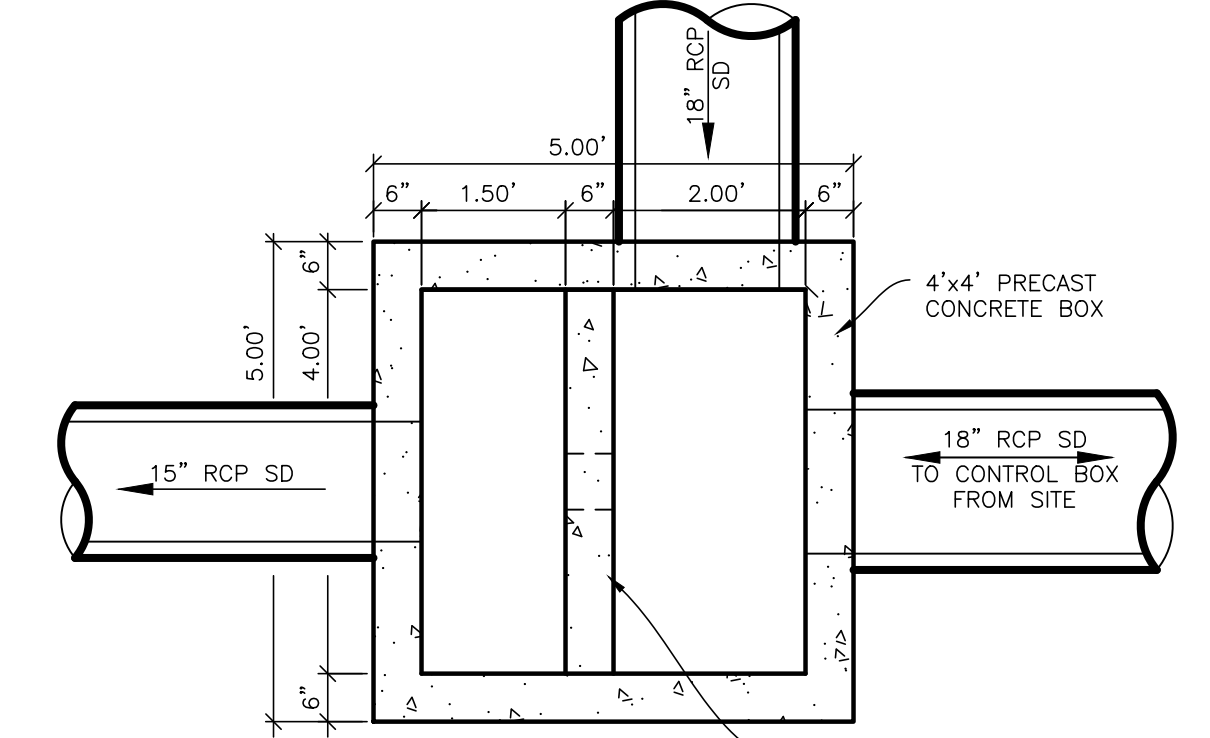
**STAGE STORAGE TABLE**

ELEV.	AREA (sq. ft.)	DEPT H (ft)	AVG END INC. VOL. (cu. ft.)	AVG END TOTAL VOL. (cu. ft.)	CONIC INC. VOL. (cu. ft.)	CONIC TOTAL VOL. (cu. ft.)
4,288.00	0.04	N/A	N/A	0.00	N/A	0.00
4,289.00	5,724.82	1.00	2862.43	2862.43	1913.45	1913.45
4,290.00	8,850.55	0.75	6163.56	10689.79	6157.46	9729.27
4,291.00	10,298.67	1.00	9574.61	20264.40	9565.47	19294.74
4,292.00	11,910.93	1.00	11104.80	31369.20	11095.03	30389.78
4,293.00	35.41	1.00	5973.17	37342.37	4198.59	34588.36
4,293.00	6,466.15	0.00	0.00	37342.37	0.00	34588.36
4,293.00	2,334.34	0.00	0.00	37342.37	0.00	34588.36

NOTE: IRRIGATION BOXES MUST HAVE BICYCLE SAFE GRATES WITHIN 6' PAVEMENT PATHWAY

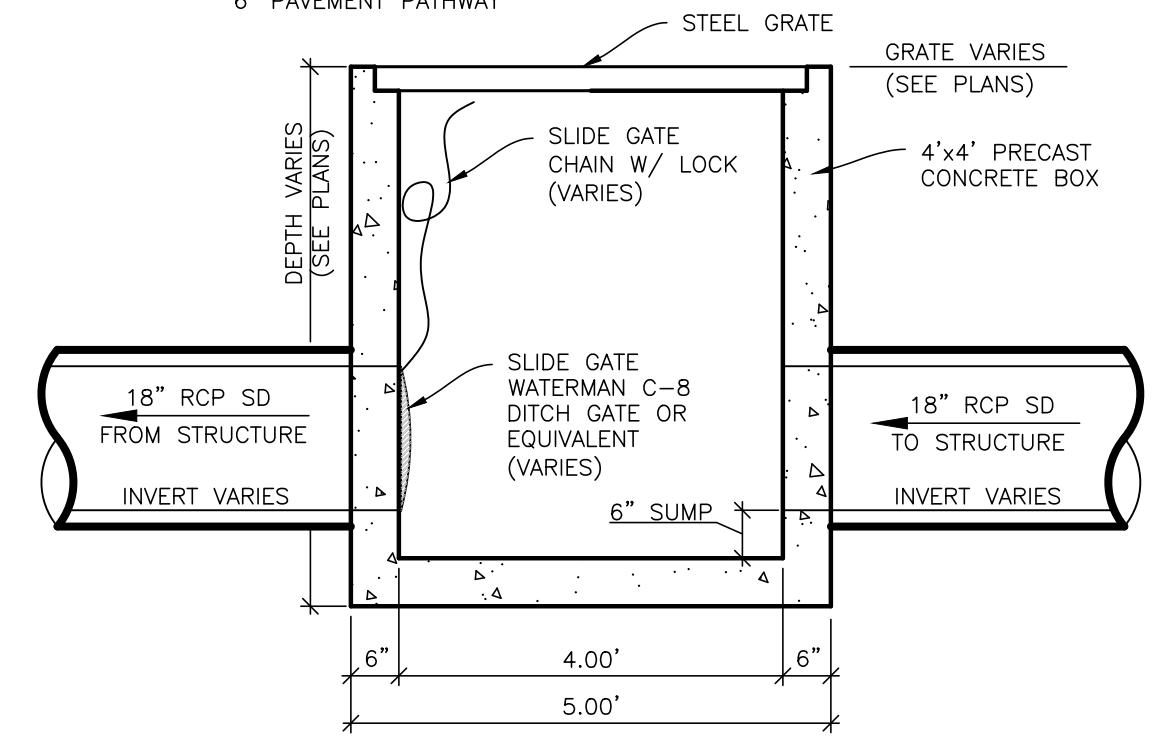


**Section**

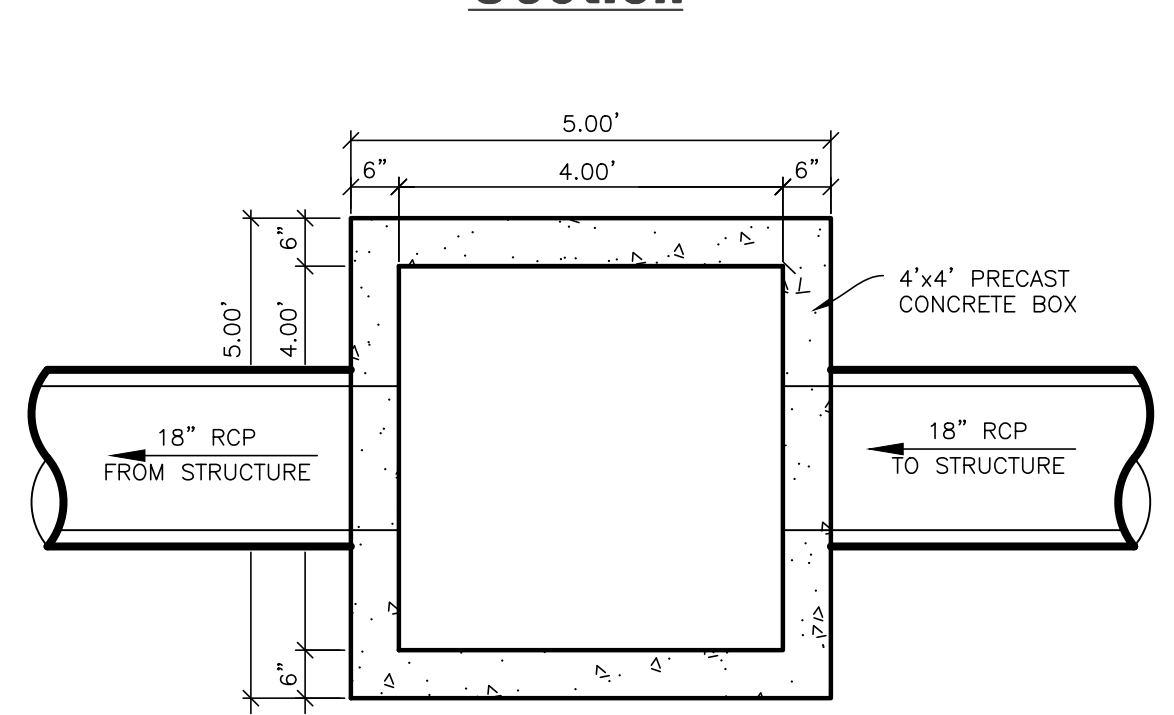


**Plan**

**4'x4' Control Box Detail**  
SCALE: NONE



**Section**



**Plan**

**Typical Irrigation Box Detail**  
SCALE: NONE

- NOTE:
- SLIDE GATE VARIES PER STRUCTURE. (SEE PLANS)
  - INVERT IN/OUT VARIES. (SEE PLANS)
  - SLIDE GATES SHALL BE LOCATED ON THE INVERT OUT OF THE STRUCTURES CALLED OUT WITH SLIDE GATE
  - INVERTS CALLED OUT ON PLANS SHALL BE BOTTOM OF STRUCTURE.
  - GRATES CALLED OUT ON PLANS SHALL BE TOP OF STRUCTURE.
  - SLIDE GATE CHAINS MUST BE INSTALLED WITH LOCK.
  - SILT TRAP TO BE ADDED IN BOTTOM OF BOX PER SLIDE GATE MANUFACTURER RECOMMENDATIONS TO ALLOW PROPER CLOSURE/SEALING OF PIPE WHEN SYSTEM IS NOT IN USE.
  - FOR IRRIGATION BOXES LOCATED WITHIN PATHWAY OF ACCESS EASEMENT AROUND PROPERTY MUST HAVE BICYCLE SAFE GRATES INSTALLED

**Storm Runoff Calculations**

**Milne Property**  
11/11/2020 KE  
1/26/2021 KHH

The following runoff calculations are based on the Rainfall - Intensity - Duration Frequency Curve for the Harrisville City area taken from the NOAA Atlas 14 database. Calculations have been completed for the 100-yr 24-hr storm event. Storm water runoff has been calculated for a fully developed site and limited to a release rate of 0.1 cfs/acre.

The calculations are as follows:

**Drainage Area:**

Total Area =	12.49 acre or	544,205 ft <sup>2</sup>
Runoff Coefficients		
Paved Area	85,816	C = 0.9
Roof	55,200	C = 0.9
Landscaped Area	403,189	C = 0.2
Weighted Runoff Coefficient		C = 0.38

**LID Retention**

80 <sup>th</sup> Percentile Rainfall Event		0.43 in
Is the site Feasible for LID?	Yes	
Site Imperviousness	0.26	
NRCS Soil Group	C/D	
Rv Equation	0.83i <sup>1.122</sup>	
R <sub>v</sub>	0.18	
V <sub>pond</sub>	3557	c.f.

**Rainfall Intensities:**  
100-yr intensity for a 30 minute TOC - Pipe Capacity 2.93 in/hr

**Peak Run-off:**

Runoff Coefficient	C =	0.38
Rainfall Intensity	i =	2.93 IN./HR.
Acreeage	A =	12.49 ACRES
Q	Q =	13.96 cfs

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

time (min)	time (sec)	i (in./hr.)	Q (cfs)	Vol. in (cf)	Vol. out (cf)	Difference (cf)
0	0	0.00	0.00	0	0	0
5	300	6.91	33.20	9960	375	9585
10	600	5.26	25.27	15163	750	14413
15	900	4.35	20.90	18809	1124	17685
30	1800	2.93	14.08	25339	2249	23090
60	3600	1.81	8.70	31306	4498	26808
120	7200	1.01	4.85	34938	8995	25943
180	10800	0.687	3.30	35647	13493	22154
360	21600	0.38	1.83	39435	26985	12450
720	43200	0.233	1.12	48360	53971	-5611
1440	86400	0.13	0.62	53964	107941	-53978

**Orifice Sizing**

Given:

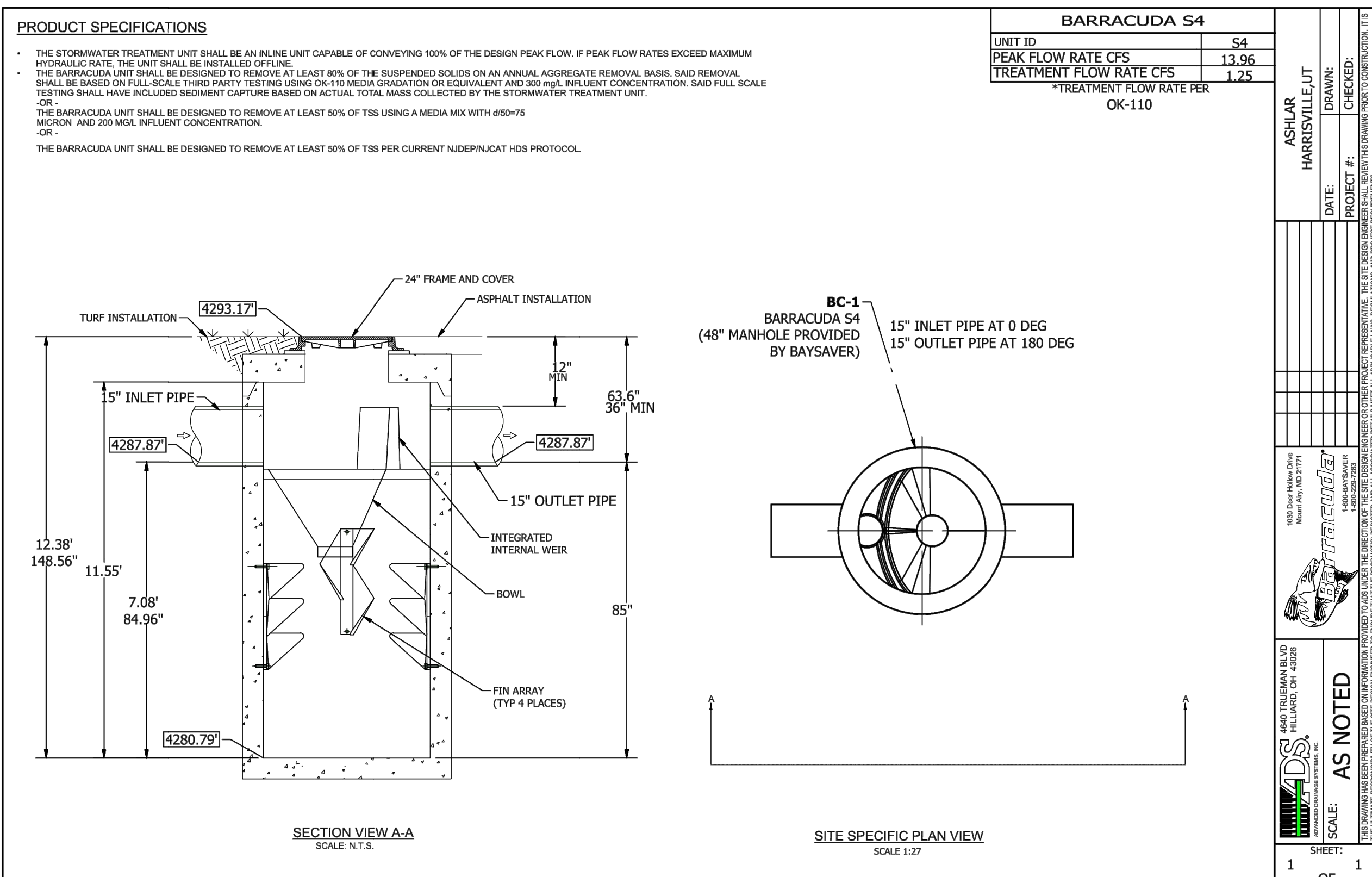
Q =	1.25	cfs
2g =	64.4	ft/s <sup>2</sup>
H =	3.00	ft
Cd =	0.62	

R = SQRT(Q/pi/(0.7\*(64.4\*H)^0.5))  
R = 0.21 feet  
D = 2.58 inches  
A = 20.89 inches<sup>2</sup>      0.1450 ft<sup>2</sup>

**Pipe Sizing**

Description	Pipe Size	Slope	Cap. (cfs)	Req. Cap.
	15	0.40%	4.12	

**SUMMARY:**  
The required 100-yr storage volume is **26,808** cubic feet  
Orifice size is **5.2** inches



**BARRACUDA S4**

UNIT ID	S4
PEAK FLOW RATE CFS	13.96
TREATMENT FLOW RATE CFS	1.25
TREATMENT FLOW RATE PER	OK-110

DATE: \_\_\_\_\_ DRAWN: \_\_\_\_\_ CHECKED: \_\_\_\_\_  
PROJECT #:

ASHLAR HARRISVILLE, UT

SCALE: AS NOTED

1 OF 1

**Reeve & Associates, Inc.**  
5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405  
TEL: (801) 621-3100 www.reeve-associates.com

**RA**

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**REVISIONS**

NO.	DESCRIPTION	DATE

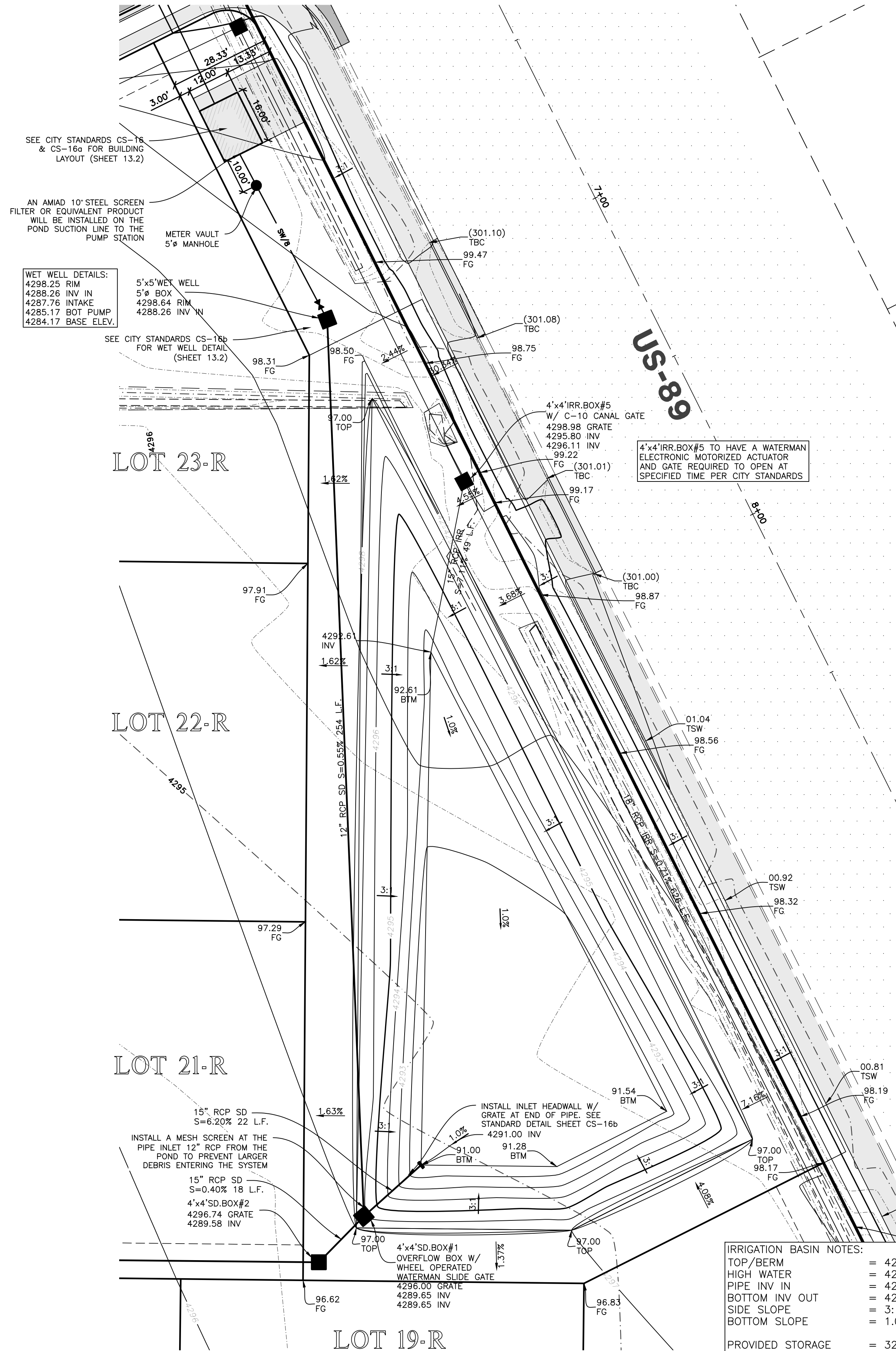
**Ashlar Cove Subdivision**  
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HARRISVILLE CITY, WEBER COUNTY UTAH

**Basin Plan**

**REGISTERED PROFESSIONAL ENGINEER**  
338480  
JEREMY A. DRAPER  
08/26/2021  
STATE OF UTAH

**Project Info.**  
Engineer: JEREMY A. DRAPER, P.E.  
Drafted: N. FICKLIN  
Begin Date: 11/10/2020  
Name: ASHLAR COVE MILNE PROPERTY  
Number: 4016-10

Sheet **16**  
**11.1** Sheets



**IRRIGATION BASIN NOTES:**  
 TOP/BERM = 4296.75  
 HIGH WATER = 4295.75  
 PIPE INV IN = 4292.61  
 BOTTOM INV OUT = 4291.00  
 SIDE SLOPE = 3:1  
 BOTTOM SLOPE = 1.0%  
 PROVIDED STORAGE = 32,562 c.f.



**Pump Sizing Calculations**  
 Ashlar Cove  
 4016-10 8/25/2021 JPL

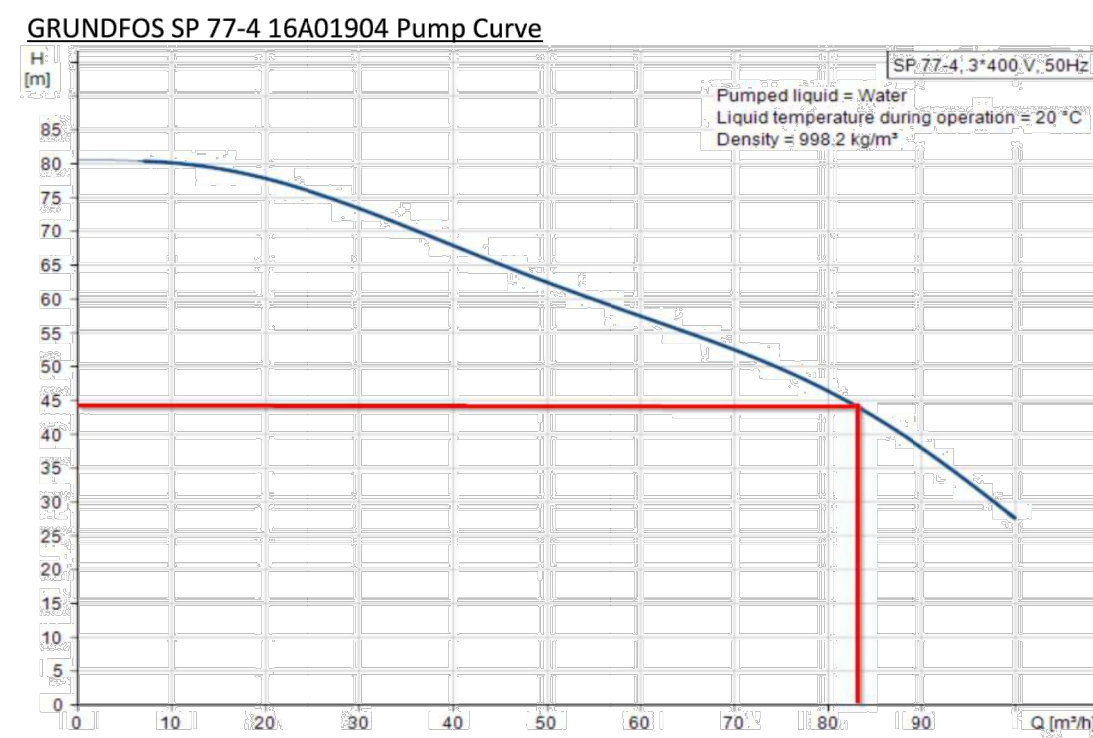
The calculations are as follows:

**Assumption**  
 12 homes watering one zone at 30 gpm at any given time will yield a total demand of 360 gpm.

**Length of Pipe** 1530 ft  
**Roughness Coefficient** 150  
**Flow Rate** 370 gpm (360 gpm required)  
**Inside Hydraulic Diameter** 8 in

**Head loss per 100 ft of pipe**  $0.2083(100/c)^{1.852}q^{1.852}/d^{4.8655}$   
 0.23 ft

**Head Loss:** 3.46 ft  
**Elevation Head:** 2 ft  
**Pressure Head:** 139 ft head = 60 psi  
**Flow Rate:** 0.8 ft<sup>3</sup>/s  
**Total head:** 144 ft = 44 m  
**Flow Rate:** 370 gpm = 84 m<sup>3</sup>/h  
**Velocity:** 2.4 ft/s



**Secondary Water Calculations**  
 Ashlar Cove  
 4016-10 5/24/2021 NP

The following secondary water calculations are based on requirements set by Harrisville City, UT. Calculations have been completed for the hottest month of the year, July. Canal flow has been set to 3 cfs.

The calculations are as follows:

**Provided Irrigation**

Canal Flow	3.00	cfs
Number of Shares	55	shares/week
Time per Share	6	minutes
<b>Total</b>	<b>59400</b>	<b>ft<sup>3</sup>/week</b>

**Irrigation Demand**

**Assumptions:**

12.49 Acres	Total Acreage of Subdivision
544064 sf	Converted to square feet
217626 sf	40% of area requires irrigation (lawn)
8366	sf of lawn per lot
5.00 Acres	Irrigated Acres
6.21 inches	Lawn requires 6.21 inches in July (Hottest Month of Year)
	Harrisville City has similar climate to West Jordan City

**Formula** Water Requirement (gallons) = Eto x 1.0x0.62xA  
**Eto** Historical Evapotranspiration Rate of alfalfa - water used by plant (inches)  
**0.62** Conversion from inches per square feet to gallons  
**1** Convert from alfalfa to Lawn ( compensates for inefficiency of irrigation systems)  
**A** Area in square feet

Month	Gallons	Eto (Inches)	Area
Month(July)	837903	6.21	1 0.62 217625.76
Per Week	209476		
Per Day	27029		

**Eto Values (inches) for Monthly Water Allowance (West Jordan)**

Jan	Feb	Mar	Apr	May	Jun
0	0	0	3.36	4.59	5.4
Jul	Aug	Sep	Oct	Nov	Dec
6.21	5.6	3.72	2.3	0	0

**City Requirements**

7 gallons per minute per irrigated acre minimum 34.972 gallons per minute  
 One-week supply of water 11.2 Acre Feet minimum  
 min 1 ac-ft for 50 acres of irrigated land per day 1.6 Acre Feet minimum  
 evaporation 0.33 in/day and percolation  
 peak instantaneous flow rate must be greater than 8 gpm  
 pressure 60 psi -100 psi  
 Pipe velocities not more than 4 feet per second  
 2 pumps minimum required  
 vfd system required  
 4" to 24" diameter pipe for distribution

Acre Feet= 43,560 cubic feet  
 Acre Feet= 325,851 u.s. gallons

City Min.  
 1 acre foot ac-ft 11.66 acres 7 day 325851 gallons  
 50 acres acres 1 day 1 week 1 ac-ft

Irr. Demand 209476 gal/week  
 28003 ft<sup>3</sup>/week

**Evaporation**

Basin Cap. 59615 ft<sup>3</sup>  
 Top Area 14632 ft<sup>2</sup>  
 Bottom Area 6935 ft<sup>2</sup>  
**Evaporation Loss 2817 ft<sup>3</sup>/week**

**Total Demand = 30820 ft<sup>3</sup>/week**

**SUMMARY:**  
 The required irrigation demand is 30,820 cubic feet per week  
 The irrigation pond storage volume is 32,562 cubic feet

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4,293.00	6,927.90	1.00	5880.98	8298.01	5849.67	7463.18
4,294.00	8,403.07	1.00	7665.48	15963.50	7653.63	15116.81
4,295.00	10,162.59	1.00	9282.83	25246.33	9268.90	24385.71
4,295.75	11,659.26	0.75	8183.19	33429.52	8176.77	32562.48
4,296.00	12,177.86	0.25	2979.64	36409.16	2979.40	35541.89
4,297.00	14,991.50	1.00	13584.68	49993.84	13560.33	49102.22

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REVISIONS	DESCRIPTION

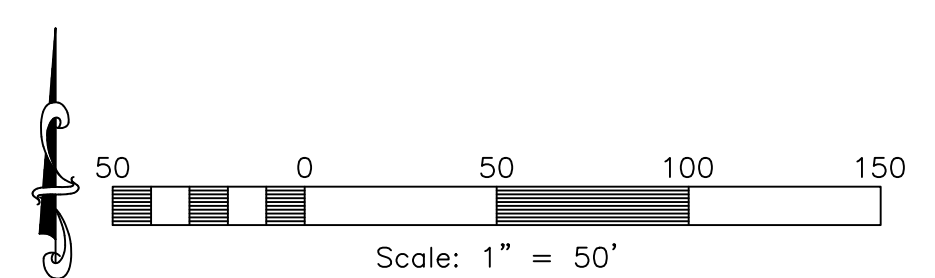
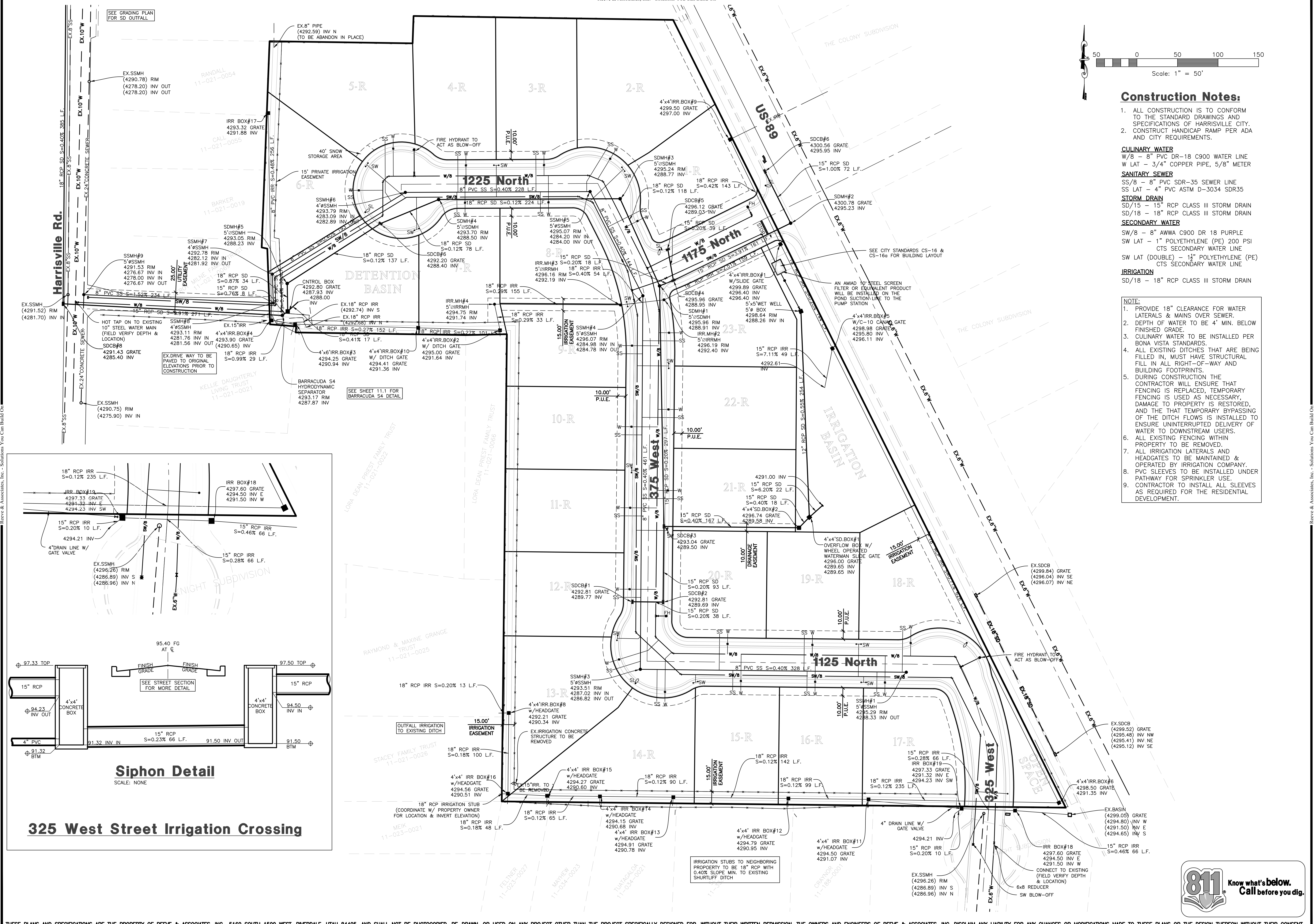
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 HARRISVILLE CITY, WEBER COUNTY UTAH

**Irrigation Basin Plan**

**Project Info.**  
 Engineer: JEREMY A. DRAPER, P.E.  
 Drafter: N. FICKLIN  
 Begin Date: 11/10/2020  
 Name: ASHLAR COVE MILNE PROPERTY  
 Number: 4016-10





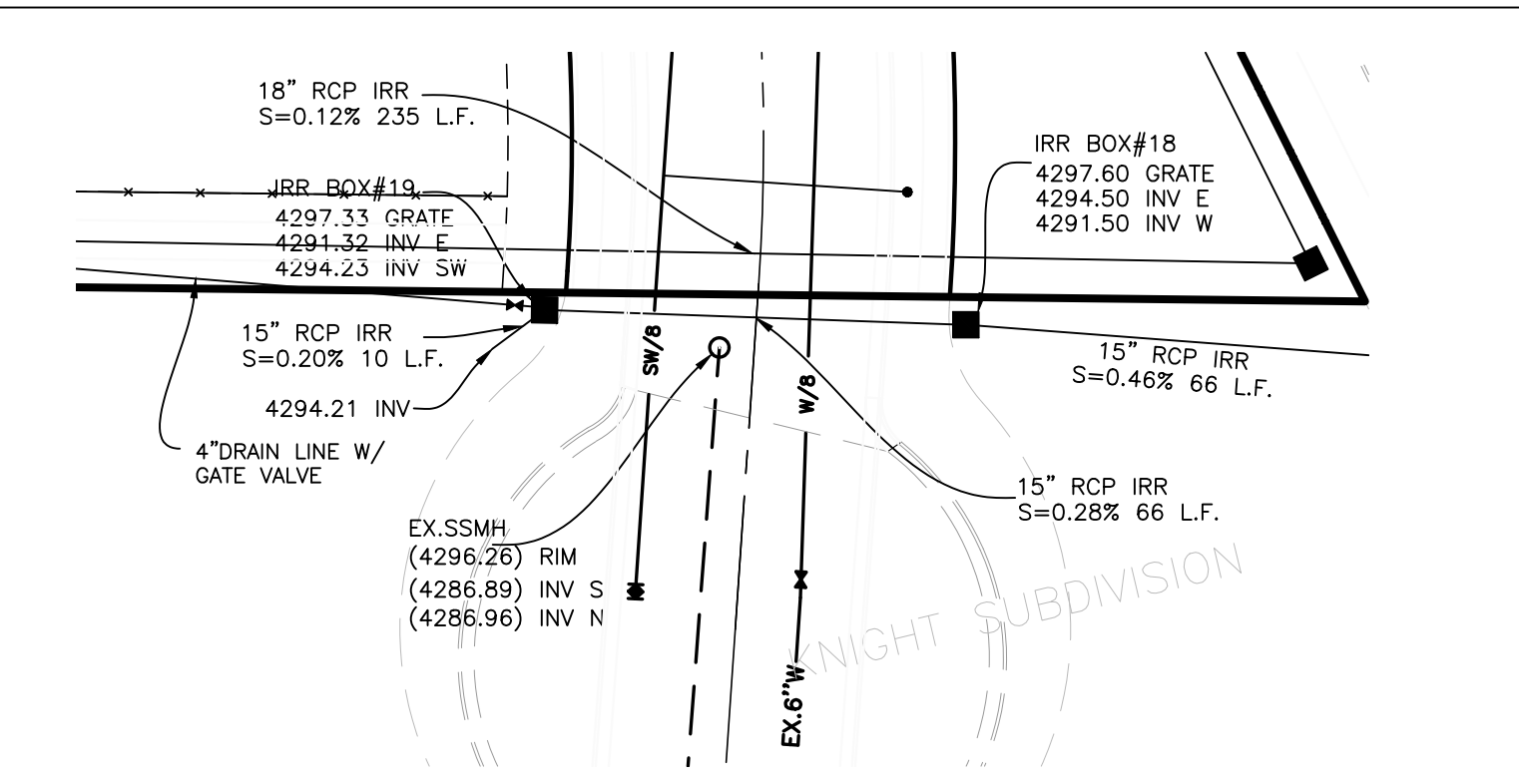


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SS LAT - 4" PVC ASTM D-3034 SDR35
- STORM DRAIN**  
SD/15 - 15" RCP CLASS III STORM DRAIN  
SD/18 - 18" RCP CLASS III STORM DRAIN
- SECONDARY WATER**  
SW/8 - 8" AWWA C900 DR 18 PURPLE  
SW LAT - 1" POLYETHYLENE (PE) 200 PSI  
CTS SECONDARY WATER LINE  
SW LAT (DOUBLE) - 1 1/2" POLYETHYLENE (PE)  
CTS SECONDARY WATER LINE
- IRRIGATION**  
SD/18 - 18" RCP CLASS III STORM DRAIN

- NOTE:**
1. PROVIDE 18" CLEARANCE FOR WATER LATERALS & MAINS OVER SEWER.
  2. DEPTH OF WATER TO BE 4" MIN. BELOW FINISHED GRADE.
  3. CULINARY WATER TO BE INSTALLED PER BONA VISTA STANDARDS.
  4. ALL EXISTING DITCHES THAT ARE BEING FILLED IN, MUST HAVE STRUCTURAL FILL IN ALL RIGHT-OF-WAY AND BUILDING FOOTPRINTS.
  5. DURING CONSTRUCTION THE CONTRACTOR WILL ENSURE THAT FENCING IS REPLACED, TEMPORARY FENCING IS USED AS NECESSARY, DAMAGE TO PROPERTY IS RESTORED, AND THAT TEMPORARY BYPASSING OF THE DITCH FLOWS IS INSTALLED TO ENSURE UNINTERRUPTED DELIVERY OF WATER TO DOWNSTREAM USERS.
  6. ALL EXISTING FENCING WITHIN PROPERTY TO BE REMOVED.
  7. ALL IRRIGATION LATERALS AND HEADGATES TO BE MAINTAINED & OPERATED BY IRRIGATION COMPANY.
  8. PVC SLEEVES TO BE INSTALLED UNDER PATHWAY FOR SPRINKLER USE.
  9. CONTRACTOR TO INSTALL ALL SLEEVES AS REQUIRED FOR THE RESIDENTIAL DEVELOPMENT.



**Siphon Detail**

SCALE: NONE

**325 West Street Irrigation Crossing**

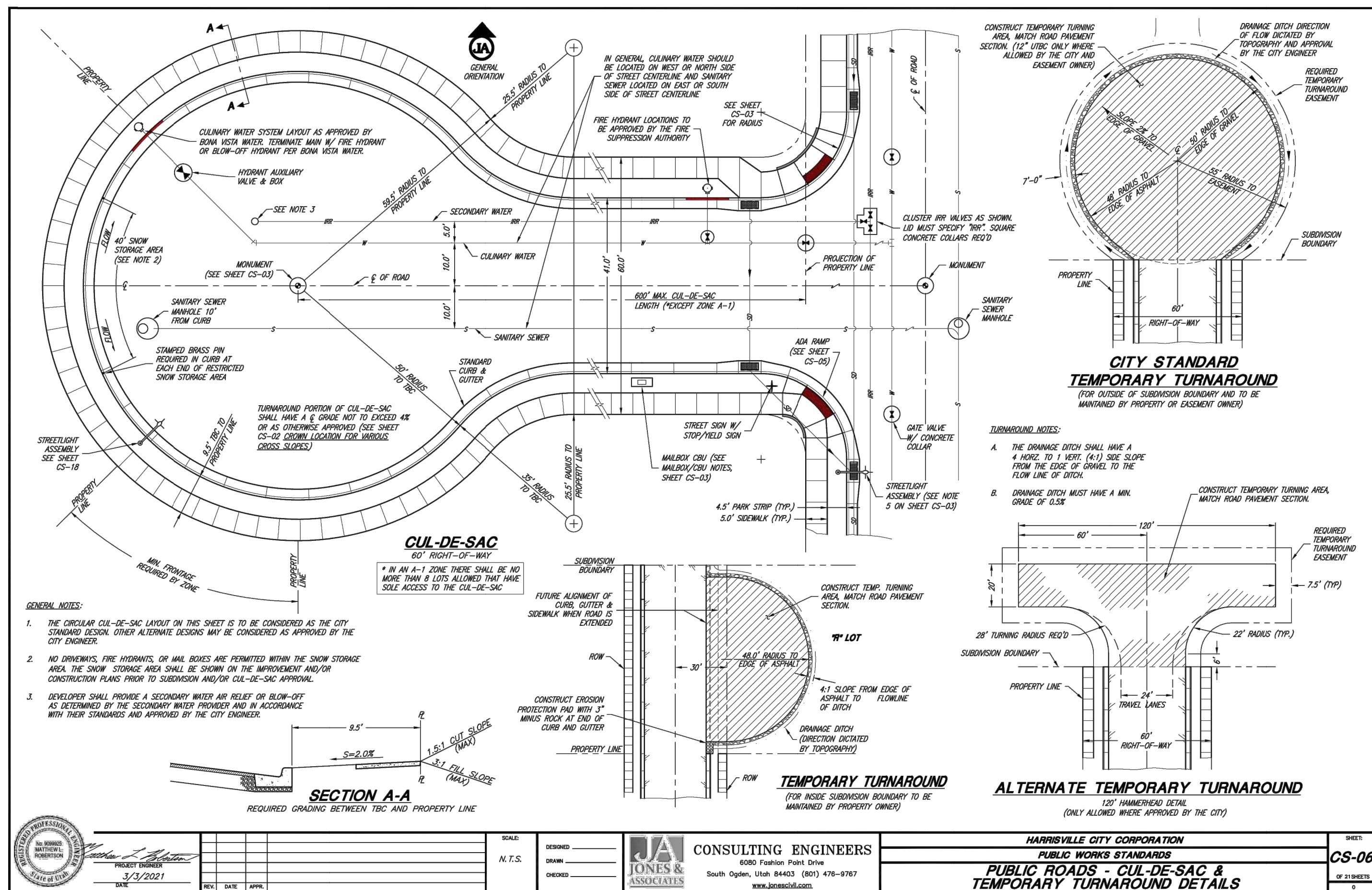
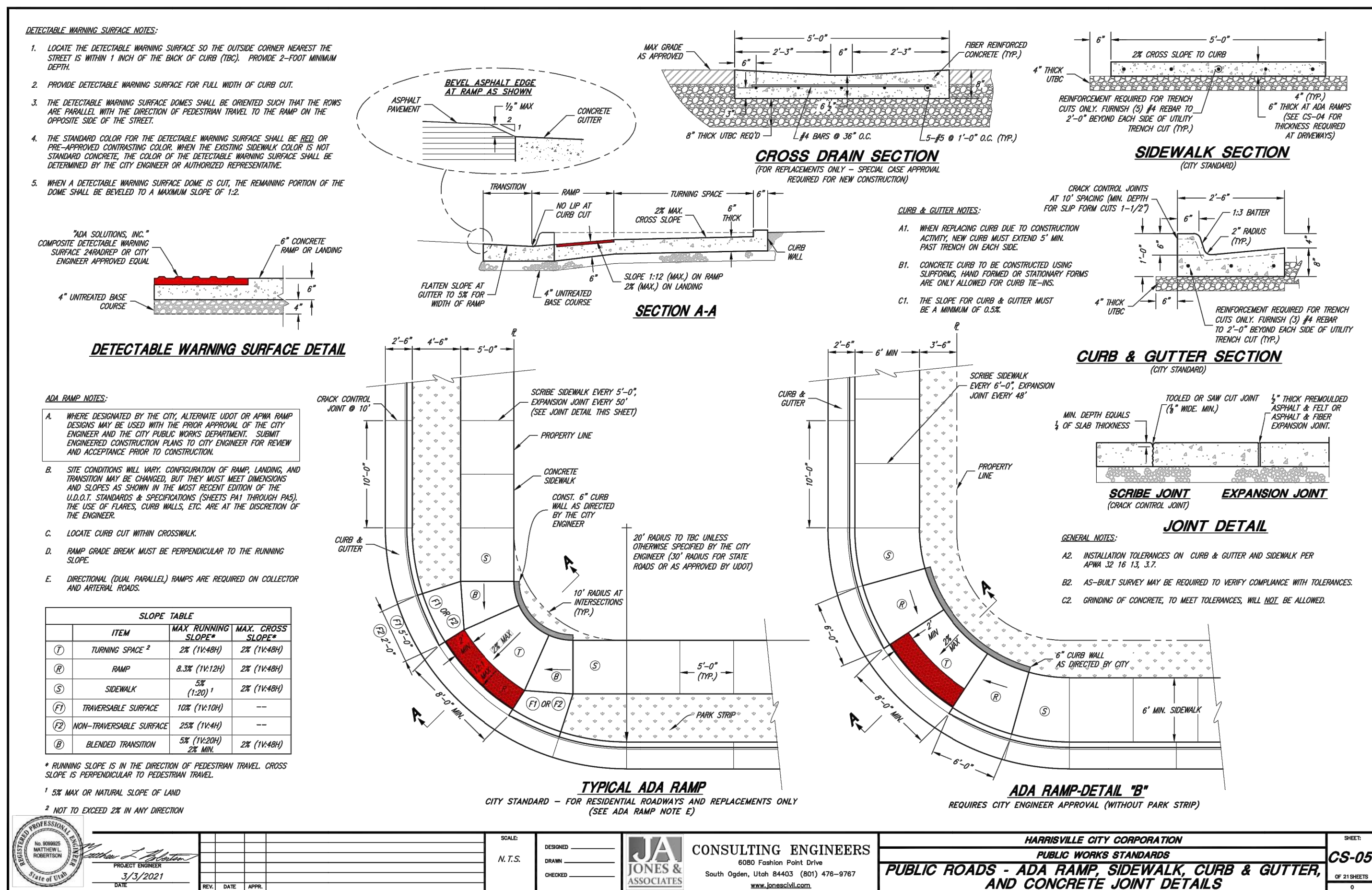
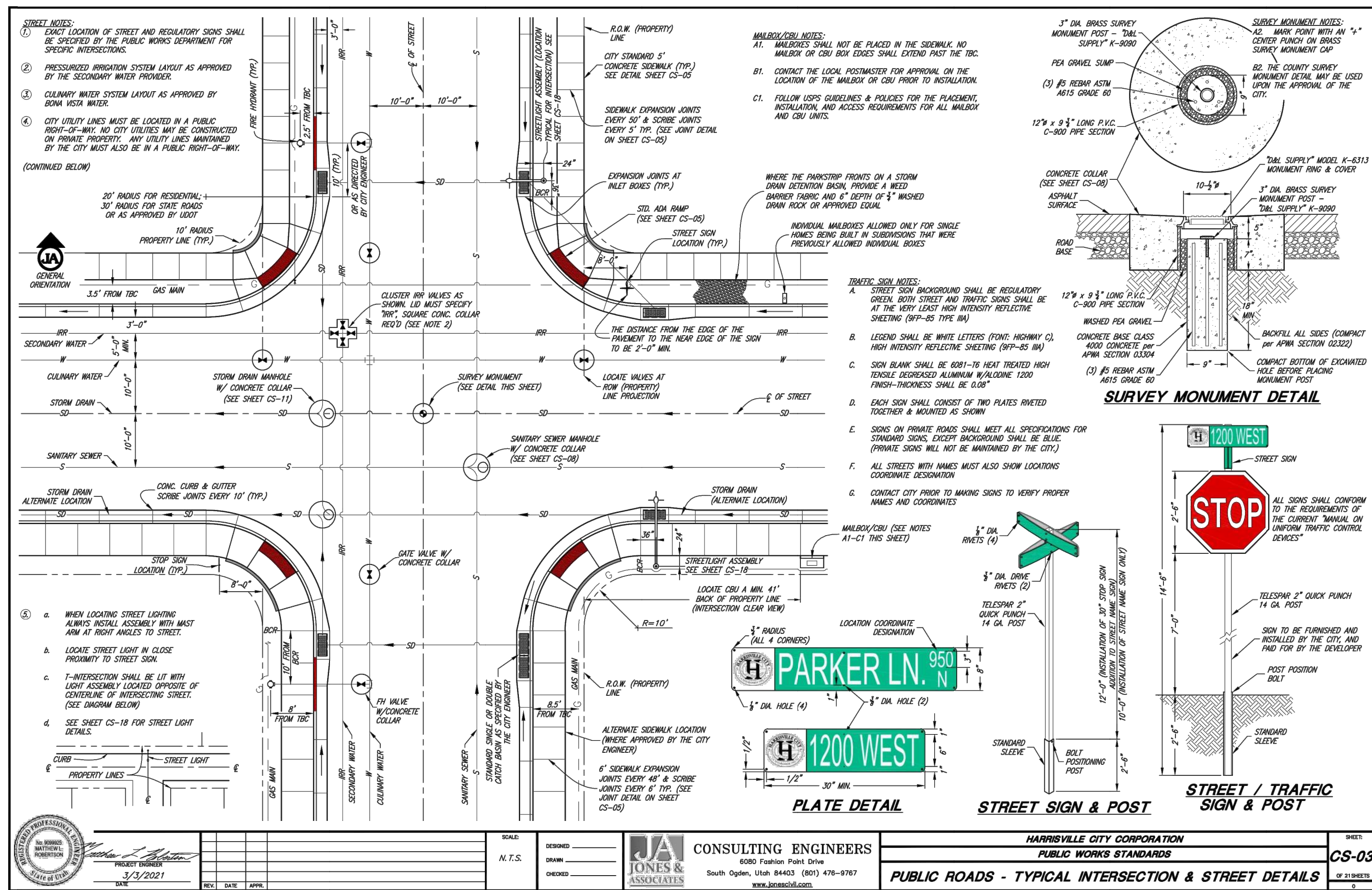
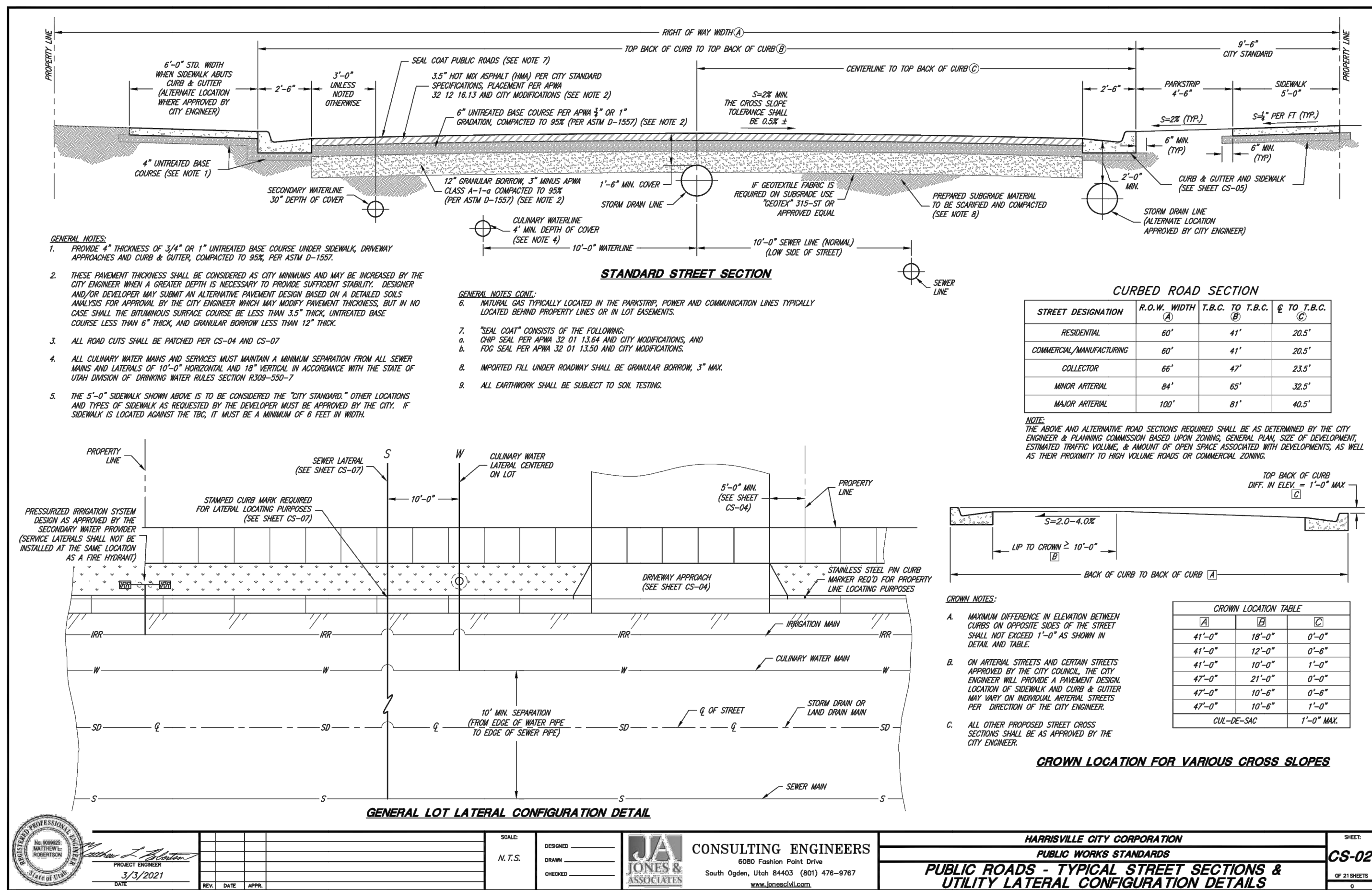
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REVISIONS	DESCRIPTION

**Project Info.**

Engineer: JEREMY A. DRAPER, P.E.  
 Drafter: N. FICKLIN  
 Begin Date: 11/10/2020  
 Name: ASHLAR COVE MILNE PROPERTY  
 Number: 4016-10

Sheet **12** of **16** Sheets



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**IRA**

REVISIONS

NO.	REVISIONS	DATE

DATE

**Ashlar Cove Subdivision**  
 PART OF THE SE 1/4 OF SECTION 6 AND THE SW 1/4 OF SECTION 5,  
 TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE BASIN & MERIDIAN, U.S. SURVEY  
 HARRISVILLE CITY, WEBER COUNTY, UTAH

**Standard Details**

REGISTERED PROFESSIONAL ENGINEER  
 338480  
 JEREMY A. DRAPER  
 08/26/2021  
 STATE OF UTAH

**Project Info.**  
 Engineer: JEREMY A. DRAPER, P.E.  
 Drafter: N. FICKLIN  
 Begin Date: 11/10/2020  
 Name: ASHLAR COVE  
 MILNE PROPERTY  
 Number: 4016-10

Sheet **13** of **16** Sheets

**GENERAL NOTES:**

- ALL SANITARY SEWER LATERAL CONNECTIONS ON SEWER MAINS IN NEW SUBDIVISIONS SHALL BE MADE WITH IN-LINE, FLOW-TO-LEFT, OR TEES UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- FLOWLINE ELEVATION OF LATERALS SHALL EQUAL THE INSIDE TOP OF PIPE ON MAINLINE AT THE CONNECTING POINT. THE LATERAL SLOPE SHALL BE IN THE TOP QUARTER OF THE SEWER MAIN LINE, PREFERABLY IN THE TOP OR 2:00 POSITION.
- SANITARY SEWER SERVICE LATERAL CONNECTIONS SHALL NOT BE ALLOWED IN SEWER MANHOLES.
- SANITARY SEWER MAINS AND LATERALS SHALL BE "TIGHT" IN COLOR. IRRIGATION PIPES SHALL BE "PURPLE" IN COLOR. PREVIOUS YEARS PIPE COLOR MAY VARY THROUGHOUT THE CITY. CONTRACTOR TO NOTIFY EXISTING PIPE PRIOR TO MAKING ANY CONNECTION.
- INSERTA TEE PRODUCT IS NOT APPROVED BY THE CITY.
- ALL CLEANOUTS SHALL BE MARKED AND FITTED WITH A BRASS PLUG FOR LOCATION PURPOSES.
- ALL CLEANOUTS WITH MAINS AND SERVICES MUST MAINTAIN A MINIMUM SEPARATION ABOVE ALL SEWER MAINS AND LATERALS OF 18" VERTICAL AND 10" HORIZONTAL IN ACCORDANCE WITH THE STATE OF UTAH DIVISION OF DRINKING WATER (DWM) PULLS SECTION 900-200-7. EXCEPTIONS MUST BE APPROVED BY DWM.
- ALL SANITARY SEWER LINES SHALL BE INSPECTED BY MEANS OF VIDEO CAMERA AND AIR TESTED WHEN CONSTRUCTED. SEE APPN 33 OR 00 AND CITY MODIFICATIONS FOR MORE INFORMATION.
- STAMPED CONCRETE CURB MARKS USED FOR LATERAL LOCATING ARE REQUIRED BY THE CITY. STAMPED CURB MARKS SHALL BE INSTALLED DURING ALL NEW CONSTRUCTION OR RESTORED WHEN REPAIRING DAMAGED CURB & GUTTER DUE TO ANY CONSTRUCTION RELATED ACTIVITY. STAMP "S" FOR SANITARY SEWER.
- THE LOCATION OF THE SEWER LATERAL MUST BE DOCUMENTED AND SUBMITTED TO THE CITY ON SCALED AS-BUILT DRAWINGS.
- ALL SANITARY SEWER MAINS SHALL BE INSPECTED BY MEANS OF VIDEO CAMERA AND AIR TESTED WHEN CONSTRUCTED. SEE APPN 33 OR 00 AND CITY MODIFICATIONS FOR MORE INFORMATION.
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**TYPICAL TRENCH SECTION**  
(SEWER AND STORM DRAIN)

**CONNECTING INTO EXISTING WYE OR TEE**

**TAPPING INTO EXISTING PVC PIPE**

**TAPPING INTO EXISTING CONCRETE PIPE**

**GENERAL NOTES:**

- 1.5" & 2" PVC SHALL BE POLYETHYLENE, SDP-9, CTS, ASTM D-2737 W/ PURPLE 12 GAUGE TRACER WIRE.
- FITTINGS SHALL BE STAINLESS UNLESS SPECIFIED OTHERWISE.
- VALVE & METAL ENCLOSURE LIDS SHALL BE STAMPED "IRRIGATION".
- INSURE VALVE CONTROL CAN BE SERVICED BY WRENCH WHEN POSITIONING UNDER ENCLOSURE LID.
- ALL COMPRESSION-TYPE CONNECTIONS REQUIRE STAINLESS STEEL INSERTS/SPEARERS.
- THE TUBING SHOULD BE INSERTED INTO THE FITTING SO THAT THE END OF THE TUBING IS WELL PAST THE RUBBER GASKET AND AT LEAST 1" FROM THE BOTTOM OF THE SOCKET.
- SERVICE LINES ARE TO BE TAPPED LEVEL.
- ALL MAIN LINES ARE TO BE PURPLE C900 W/ PURPLE LATERAL TAPE & PURPLE 12 GAUGE TRACER WIRE.

**TRACER WIRE NOTES:**

- ALL SECONDARY WATER LINES SHALL HAVE A MINIMUM 12 GA. INSULATED TRACER WIRE INSTALLED UNDER THE MANHOLES OF THE PIPE PRIOR TO BACKFILLING.
- TRACER WIRES SHALL TERMINATE AT ALL METERS, AT SERVICE SADDLES AND TAPPING SLEEVES. THE TRACER WIRE SHALL NOT BE ALLOWED TO BE PLACED BETWEEN THE SADDLE AND THE PIPE. A GROUNDING ROD SHALL BE INSTALLED AT ALL TRACER SYSTEM TERMINAL POINTS.
- TRACER WIRES SHALL BE COVERED WITH PURPLE INSULATION RATED FOR DIRECT BURIAL. ALL WIRE CONNECTIONS SHALL BE 3W SHIELD Braid OR PRE-APPROVED ACCEPTABLE EQUAL AND SHALL BE WATERTIGHT TO PROVIDE ELECTRICAL CONTINUITY.
- ALL TRACER WIRE SHALL BE TESTED FOR CONTINUITY IN THE PRESENCE OF THE PUBLIC WORKS INSPECTOR PRIOR TO ASPHALT PLACEMENT. ANY TRACER WIRE FOUND NOT TO BE CONTINUOUS AFTER TESTING SHALL BE REMOVED OR REPLACED BY THE CONTRACTOR PRIOR TO ASPHALT PLACEMENT.

**HARRISVILLE CITY CORPORATION**  
**PUBLIC WORKS STANDARDS**  
**SANITARY SEWER - SEWER LATERAL & MAIN LINE CONNECTION DETAILS**

DATE: 3/3/2021  
DRAWN: [Signature]  
CHECKED: [Signature]

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**HARRISVILLE CITY CORPORATION**  
**PUBLIC WORKS STANDARDS**  
**CS-07**

**GENERAL NOTES:**

- 1.5" & 2" PVC SHALL BE POLYETHYLENE, SDP-9, CTS, ASTM D-2737 W/ PURPLE 12 GAUGE TRACER WIRE.
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**HARRISVILLE CITY CORPORATION**  
**PUBLIC WORKS STANDARDS**  
**SECONDARY WATER - TYPICAL SERVICE LATERALS**

DATE: 3/3/2021  
DRAWN: [Signature]  
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**PUBLIC WORKS STANDARDS**  
**CS-14**

**GENERAL NOTES:**

- ALL BOLTS AND NUTS ARE REQUIRED BY THE CITY.

**TYPICAL DRAIN**

**AIR VACUUM & AIR RELEASE VALVE STREET INSTALLATION**

**AIR VACUUM & AIR RELEASE VALVE PARK STRIP OR SHOULDER INSTALLATION**

**HARRISVILLE CITY CORPORATION**  
**PUBLIC WORKS STANDARDS**  
**SECONDARY WATER - AIR/VAC, DRAIN, CONCRETE COLLAR, & GATE VALVE DETAILS**

DATE: 3/3/2021  
DRAWN: [Signature]  
CHECKED: [Signature]

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**CS-15**

**AMAD MODEL "SAF" FILTER**

MODELS	MIN. LINE	MAX. FLOW	DM 14"	DM 18"
2" SAF-1500	2"	150 GPM	11.8"	2.66"
3" SAF-1500	3"	200 GPM	11.8"	2.66"
4" SAF-1500	4"	300 GPM	11.8"	2.66"
4" SAF-3000	4"	400 GPM	24.4"	3.54"
6" SAF-3000	6"	600 GPM	24.4"	3.54"
6" SAF-4500	6"	800 GPM	24.4"	4.52"
8" SAF-4500	8"	1100 GPM	24.4"	4.52"
8" SAF-6000	8"	1400 GPM	24.4"	4.52"
10" SAF-6000	10"	1700 GPM	24.4"	4.52"

**AMAD FILTER NOTES:**

- SCREENS TO BE 30 MESH.
- CONTROL TO BE STAINLESS STEEL.
- STEEL TO BE TO EPDM COATED STEEL.
- CLEANING MECHANISM TO BE STAINLESS STEEL.
- EXHAUST VALVE TO BE EPDM COATED CAST IRON.

**GENERAL NOTES:**

- ALL PIPE SHALL BE DUCTILE IRON CLASS 50 UNLESS OTHERWISE NOTED.
- ALL STRUCTURAL CONSTRUCTION SHALL COMPLY W/ CURRENT IBC & LOCAL BUILDING CODES & SHALL BE CONSISTENT WITH COMMON CONSTRUCTION PRACTICES OF THE TOWN.
- EXHAUST FAN SHALL BE SELECTED BY THE CITY (SEE DETAILS).
- METAL ROOF, FASCIA TRIM & SOFFIT, & METAL DRAIN EDGE COLOR TO BE SELECTED BY THE CITY (SEE DETAILS).
- IRRIGATION LINE IS TO HAVE 3" MINIMUM COVER.
- ALL FITTINGS, VALVES, FITTINGS, METERS, AND OTHER MEAS. PARTS OF THE PUMP SYSTEM SHALL BE WATERTIGHT W/ COAT OF PRIMER AND 2 COATS OF ACRYLIC ENAMEL PAINT (PURPLE COLOR TO BE APPROVED BY THE CITY).

**HARRISVILLE CITY CORPORATION**  
**PUBLIC WORKS STANDARDS**  
**SECONDARY WATER - PUMP CONTROL & FILTER STATION DETAILS**

DATE: 3/3/2021  
DRAWN: [Signature]  
CHECKED: [Signature]

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REVISIONS

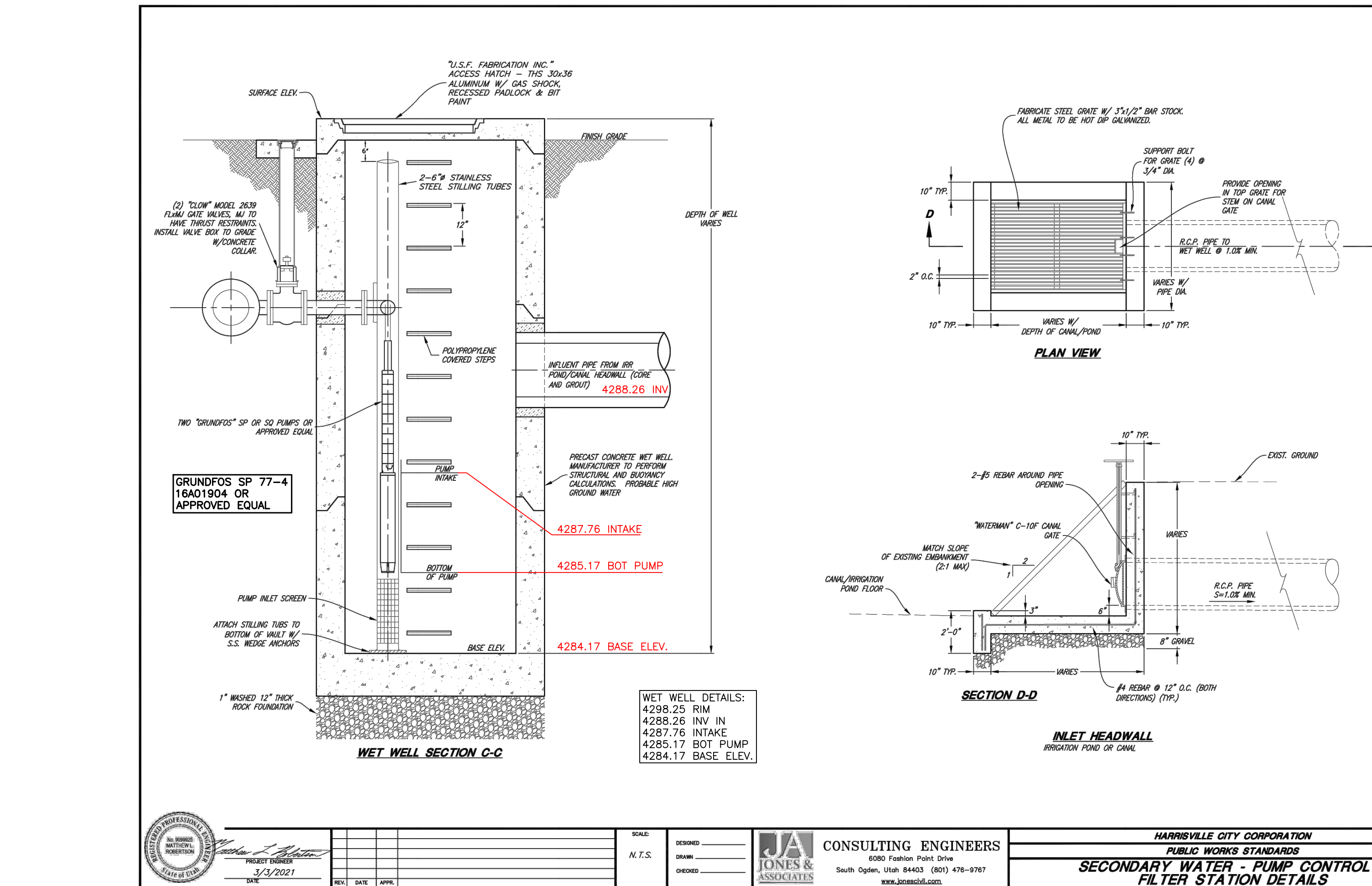
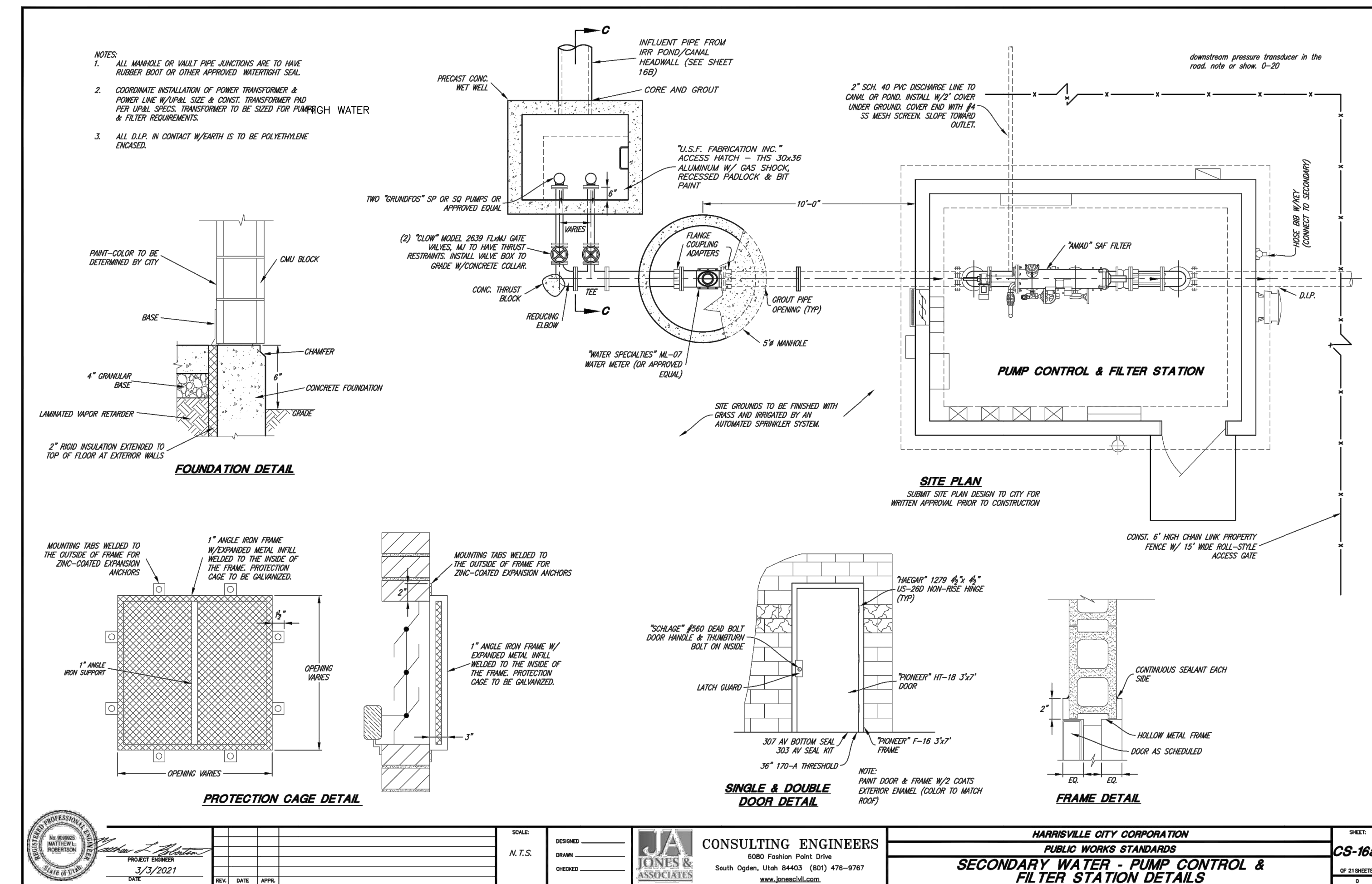
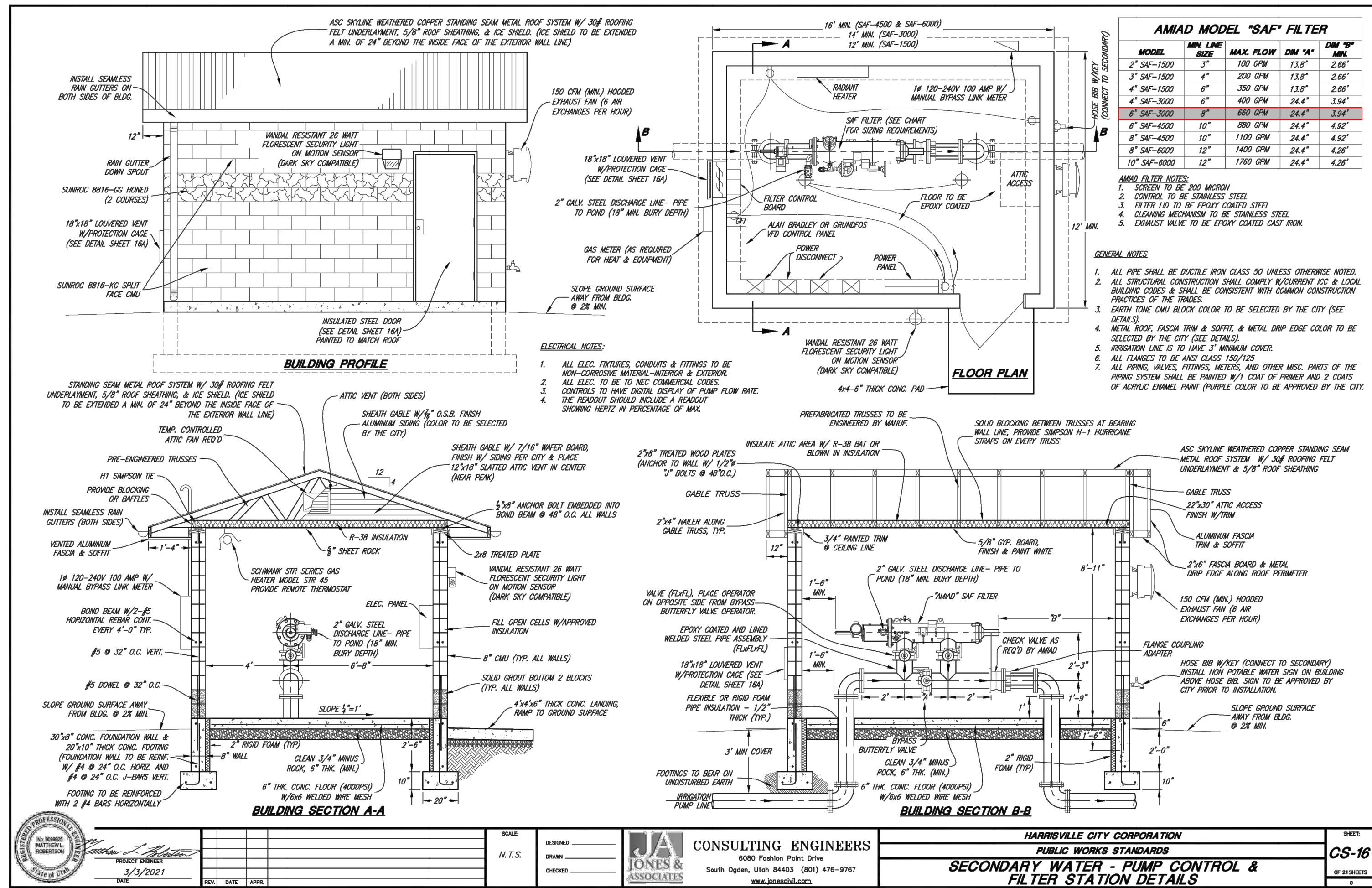
NO.	DESCRIPTION	DATE

**Ashlar Cove Subdivision**  
PART OF THE SE 1/4 OF SECTION 6 AND THE SW 1/4 OF SECTION 5,  
TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE BASE & MERIDIAN, U.S. SURVEY  
HARRISVILLE CITY, WEBER COUNTY, UTAH

**REGISTERED PROFESSIONAL ENGINEER**  
5338480  
**JERRY A. DRAPER**  
08/26/2021  
STATE OF UTAH

**Project Info.**  
Engineer: JERRY A. DRAPER, P.E.  
Drafter: N. FICKLIN  
Begin Date: 11/10/2020  
Name: ASHLAR COVE  
MILNE PROPERTY  
Number: 4016-10

Sheet **16**  
**13.1** Sheets



**REVISIONS**

NO.	DESCRIPTION	DATE

**ASHLAR COVE SUBDIVISION**  
 PART OF THE SE 1/4 OF SECTION 6 AND THE SW 1/4 OF SECTION 5,  
 TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE & MERIDIAN, U.S. SURVEY  
 HARRISVILLE CITY, WEBER COUNTY UTAH

**Standard Details**

**Project Info.**  
 Engineer: JEREMY A. DRAPER, P.E.  
 Drafter: N. FICKLIN  
 Begin Date: 11/10/2020  
 Name: ASHLAR COVE  
 MILNE PROPERTY  
 Number: 4016-10

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 5338480  
 JEREMY A. DRAPER  
 08/26/2021  
 STATE OF UTAH

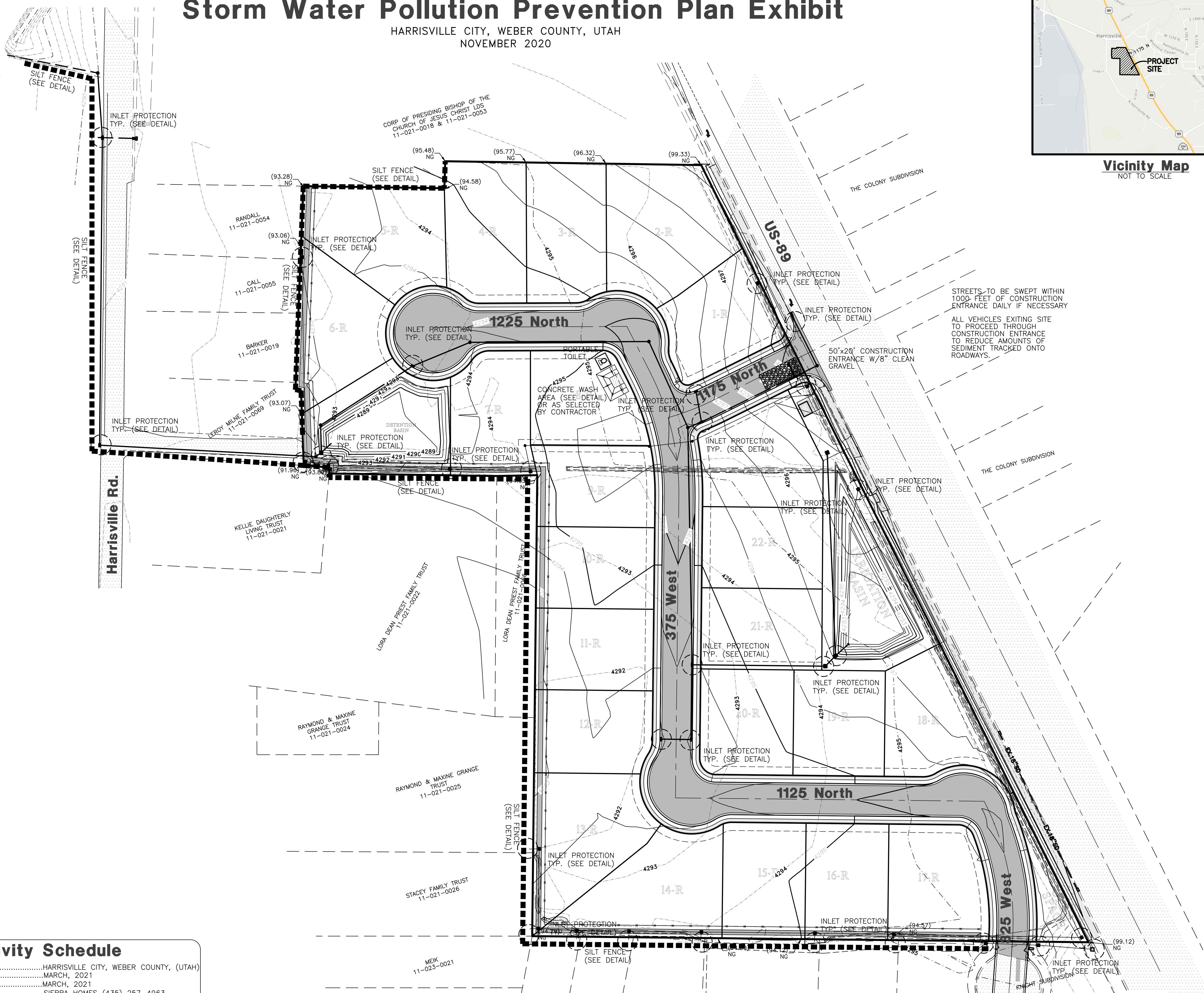
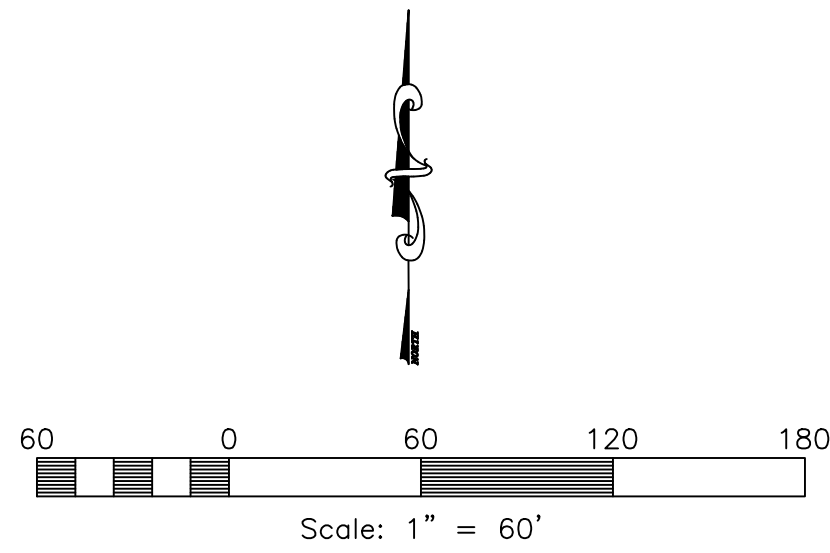
# ASHLAR COVE SUBDIVISION

## Storm Water Pollution Prevention Plan Exhibit

HARRISVILLE CITY, WEBER COUNTY, UTAH  
NOVEMBER 2020



Vicinity Map  
NOT TO SCALE



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

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

REVISIONS	DESCRIPTION

**Ashlar Cove Subdivision**  
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HARRISVILLE CITY, WEBER COUNTY UTAH

**Storm Water Pollution Prevention Plan Exhibit**

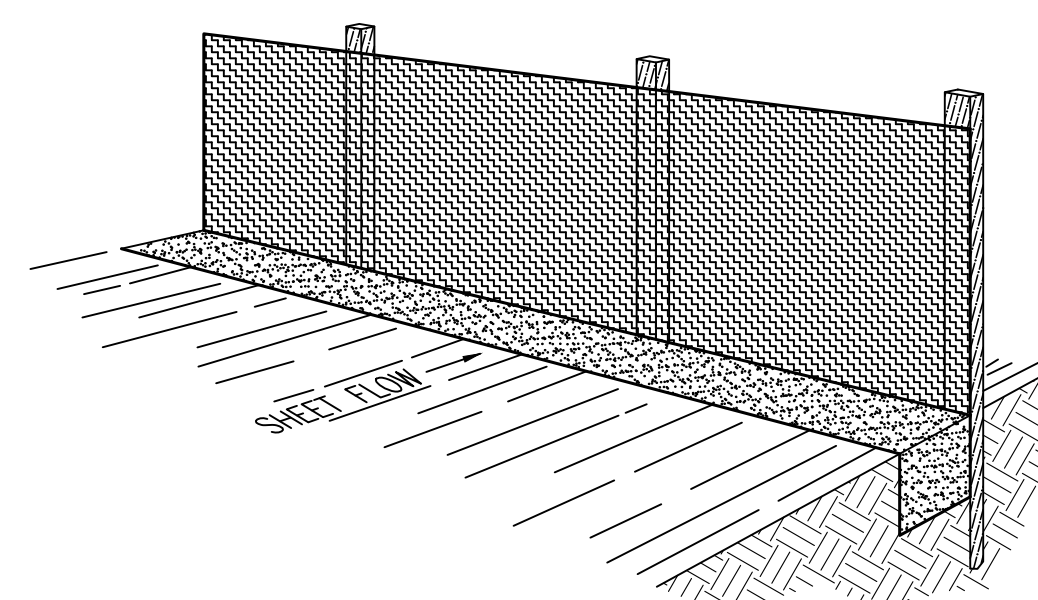


**Project Info.**  
Engineer: JEREMY A. DRAPER, P.E.  
Drafter: N. FICKLIN  
Begin Date: 11/10/2020  
Name: ASHLAR COVE MILNE PROPERTY  
Number: 4016-10

SILT FENCE (SEE DETAIL) LOCATION.....	HARRISVILLE CITY, WEBER COUNTY, (UTAH)
PROJECT BEGINNING DATE.....	MARCH, 2021
BMP'S DEPLOYMENT DATE.....	MARCH, 2021
STORM WATER MANAGEMENT CONTACT / INSPECTOR.....	SIERRA HOMES (435) 257-4963
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
    - Maintain all construction equipment to prevent oil or other fluid leaks.
    - Keep vehicles and equipment clean; prevent excessive build-up of oil and grease.
    - Regularly inspect on-site vehicles and equipment for leaks, and repair immediately.
    - Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment on-site.
    - Segregate and recycle wastes, such as greases, used oil or oil filters, antifreeze, cleaning solutions, automotive batteries, hydraulic, and transmission fluids.
  - Fueling
    - If fueling must occur on-site, use designated areas away from drainage.
    - Locate on-site fuel storage tanks within a bermed area designed to hold the tank volume.
    - Cover retention area with an impervious material and install in a manner to ensure that any spills will be contained in the retention area. To catch spills or leaks when removing or changing fluids.
    - Use drip pans for any oil or fluid changes.
  - Washing
    - Use as little water as possible to avoid installing erosion and sediment controls for the wash area.
    - If washing must occur on-site, use designated, bermed wash areas to prevent waste water discharge into storm water, creeks, rivers, and other water bodies.
    - Use phosphate-free, biodegradable soaps.
    - Do not permit steam cleaning on-site.
- Spill Prevention and Control
  - Minor Spills:  
Minor spills are those which are likely to be controlled by on-site personnel. After contacting local emergency response agencies, the following actions should occur upon discovery of a minor spill:
    - Contain the spread of the spill.
    - If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (i.e. absorbent materials, cat litter, and / or rags).
    - If the spill occurs in dirt areas, immediately contain the spill by constructing an earth dike. Dig up and properly dispose of contaminated soil.
    - If the spill occurs during rain, cover the impacted area to avoid runoff.
    - Record all steps taken to report and contain spill.
  - Major Spills:  
On-site personnel should not attempt to control major spills until the appropriate and qualified emergency response staff have arrived at the site. For spills of federal reportable quantities, also notify the National Response Center at (800) 424-8802. A written report should be sent to all notified authorities. Failure to report major spills can result in significant fines and penalties.
- Post Roadway / Utility Construction
  - Maintain good housekeeping practices.
  - Enclose or cover building material storage areas.
  - Properly store materials such as paints and solvents.
  - Store dry and wet materials under cover, away from drainage areas.
  - Avoid mixing excess amounts of fresh concrete or cement on-site.
  - Perform washout of concrete trucks offsite or in designated areas only.
  - Do not wash out concrete trucks into storm drains, open ditches, streets or streams.
  - Do not place material or debris into streams, gutters or catch basins that stop or reduce the flow of runoff water.
  - All public streets and storm drain facilities shall be maintained free of building materials, mud and debris caused by grading or construction operations. Roads will be swept within 1000' of construction entrance daily, if necessary.
  - Install straw wattle around all inlets contained within the development and all others that receive runoff from the development.
- Erosion Control Plan Notes
  - The contractor will designate an emergency contact that can be reached 24 hours a day 7 days a week.
  - A stand-by crew for emergency work shall be available at all times during potential rain or snow runoff events. Necessary materials shall be available on site and stockpiled at convenient locations to facilitate rapid construction of emergency devices when rain or runoff is eminent.
  - Erosion control devices shown on the plans and approved for the project may not be removed without approval of the engineer of record. If devices are removed, no work may continue that have the potential of erosion without consulting the engineer of record. If deemed necessary erosion control should be reestablished before this work begins.
  - Graded areas adjacent to fill slopes located at the site perimeter must drain away from the top of the slope at the conclusion of each working day. This should be confirmed by survey or other means acceptable to the engineer of record.
  - All silt and debris shall be removed from all devices within 24 hours after each rain or runoff event.
  - Except as otherwise approved by the inspector, all removable protective devices shown shall be in place at the end of each working day and through weekends until removal of the system is approved.
  - All loose soil and debris, which may create a potential hazard to offsite property, shall be removed from the site as directed by the engineer of record of the governing agency.
  - The placement of additional devices to reduce erosion damage within the site is left to the discretion of the engineer of record.
  - Desilting basins may not be removed or made inoperable without the approval of the engineer of record and the governing agency.
  - Erosion control devices will be modified as need as the project progresses and plans of these changes submitted for approval by the engineer of record and the governing agency.
- Conduct a minimum of one inspection of the erosion and sediment controls every two weeks. Maintain documentation on site.
  - Part III.D.4 of general permit 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**

Figure 2

**INSTALLATION**

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

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

**PREFABRICATED SILT FENCE ROLLS**

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

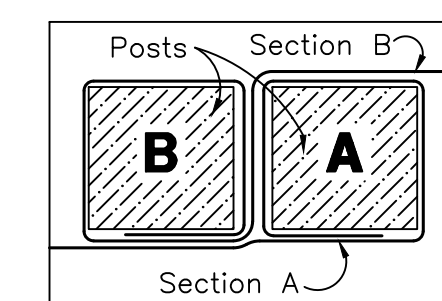


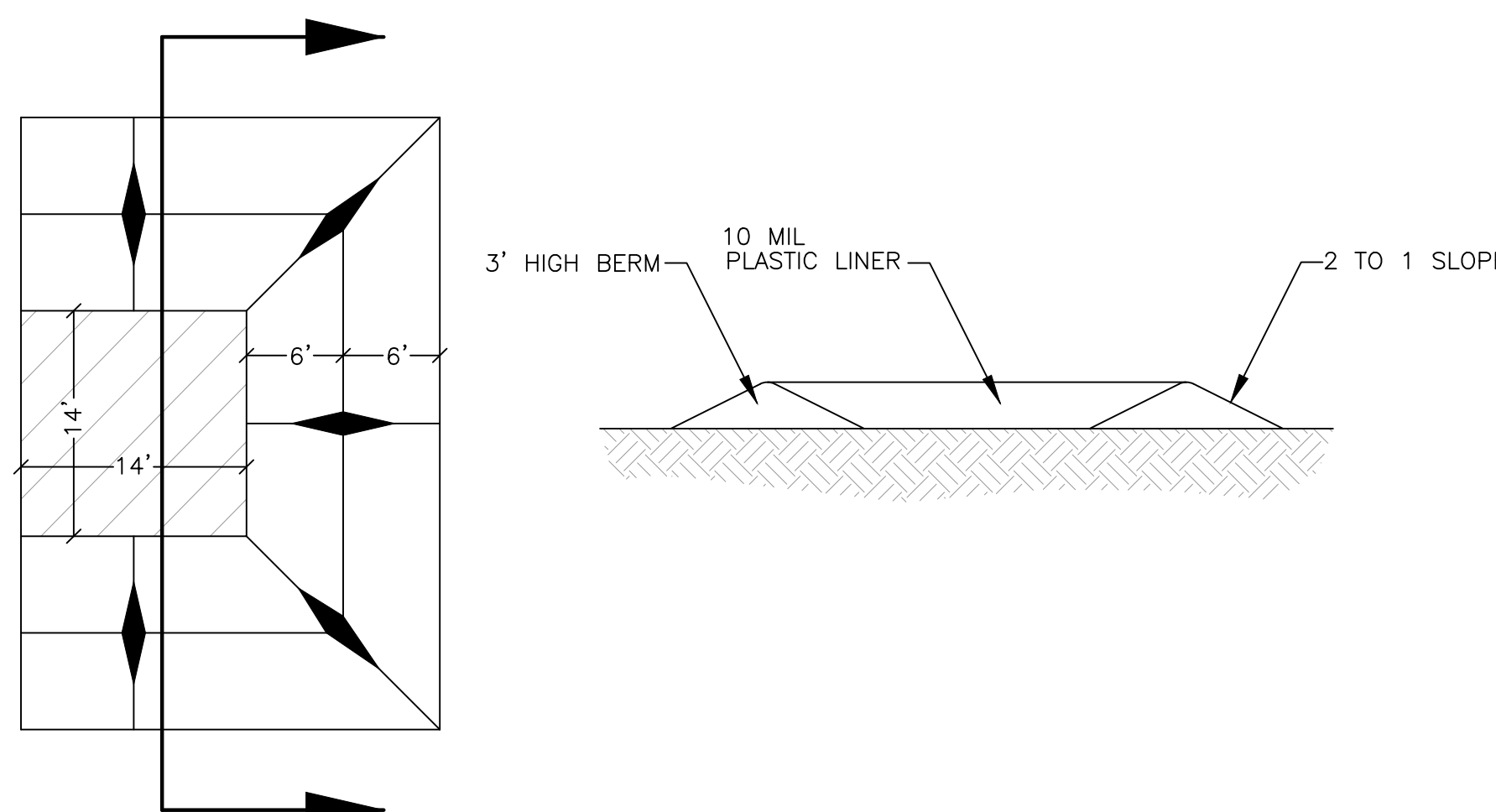
Figure 1: Top View of Roll-to-Roll Connection

**FIELD ASSEMBLY:**

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

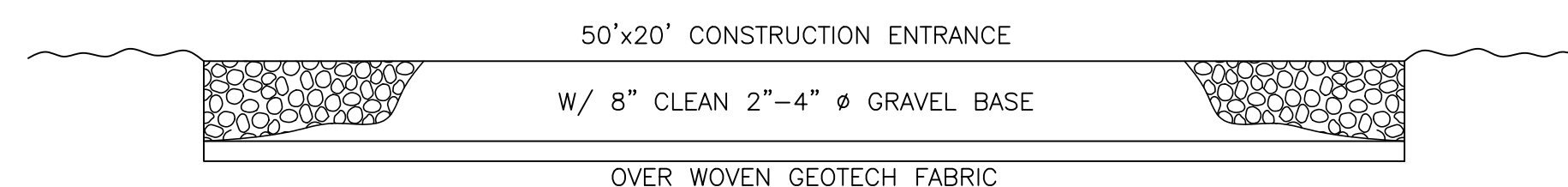
**Silt Fence Detail**

SCALE: NONE

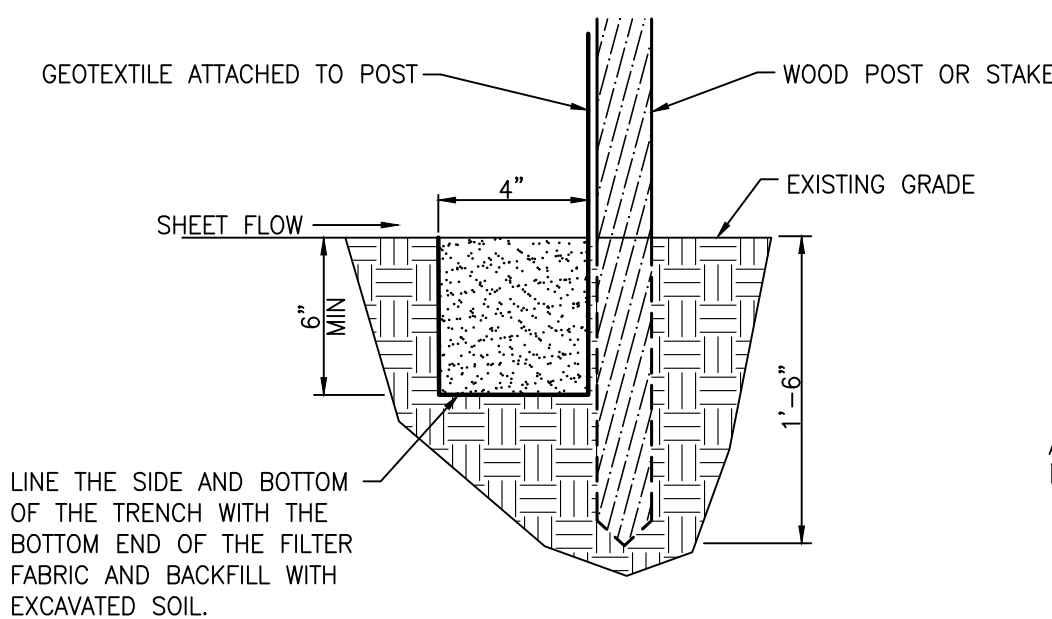


**Concrete Washout Area w/ 10 mil Plastic Liner**

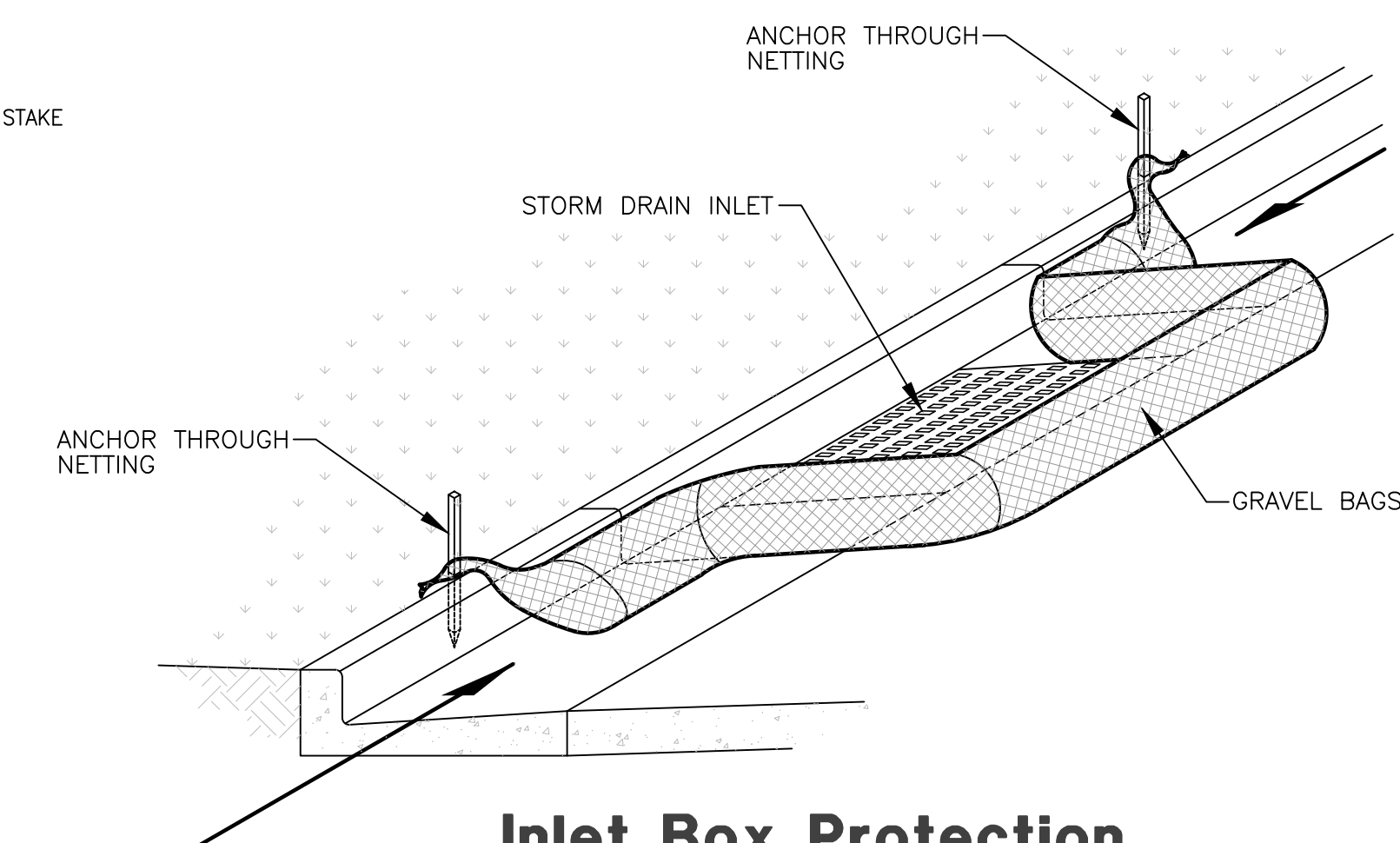
SCALE: NONE



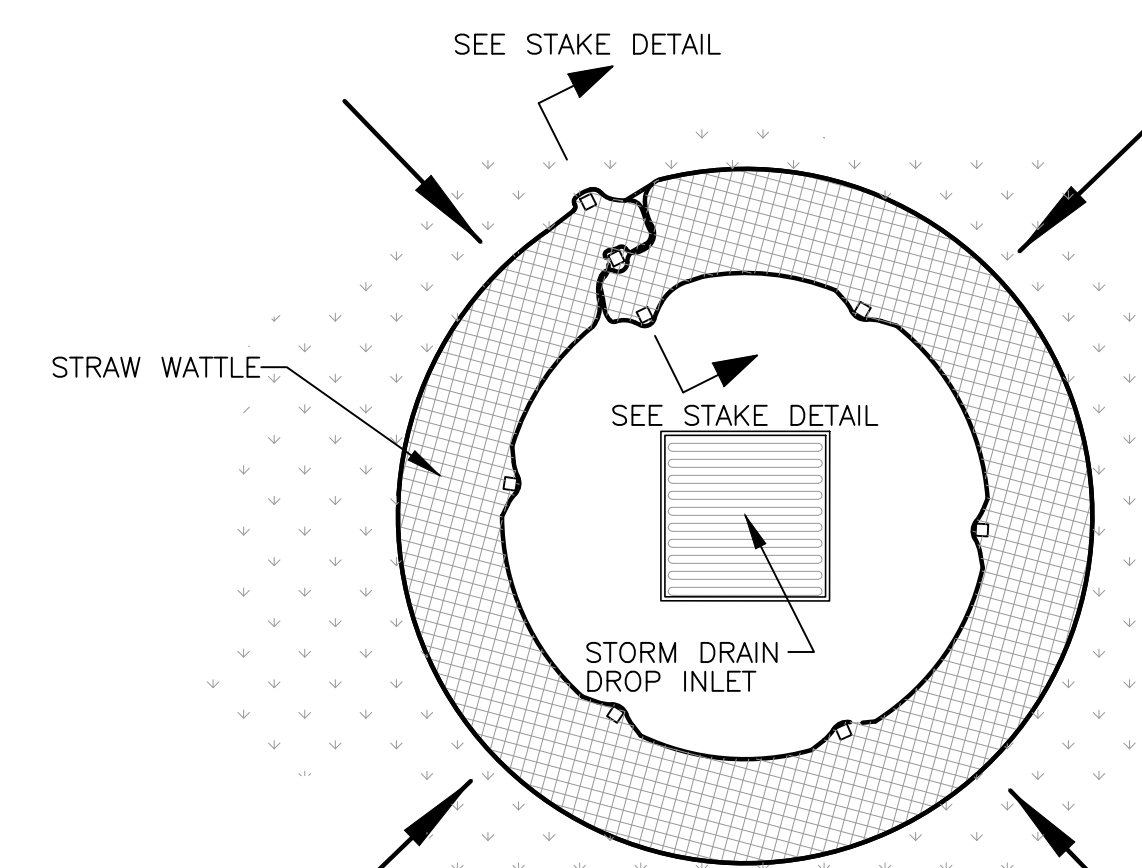
**Cross Section 50' x 20' Construction Entrance**



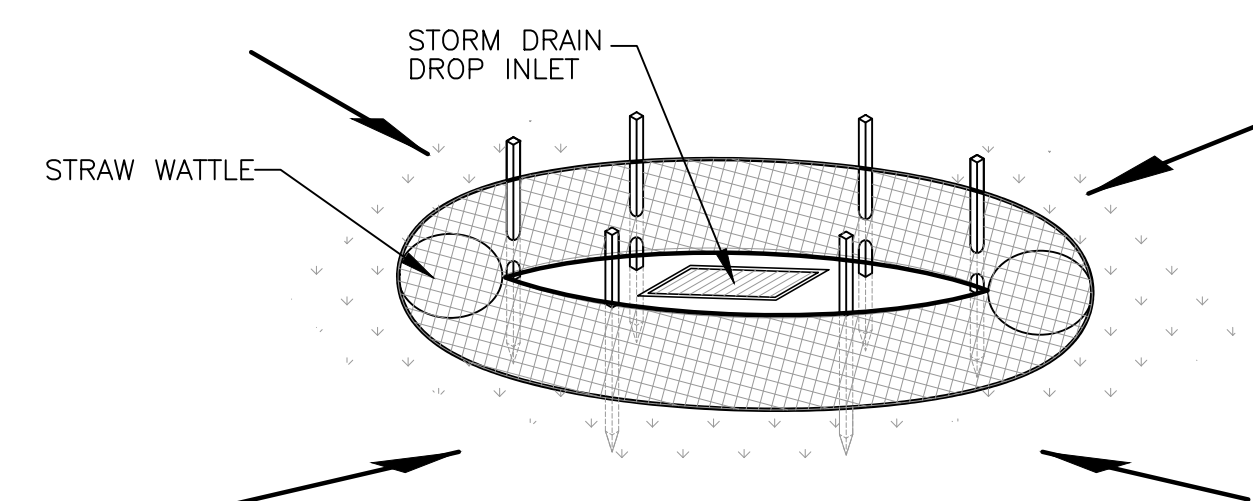
**Section**



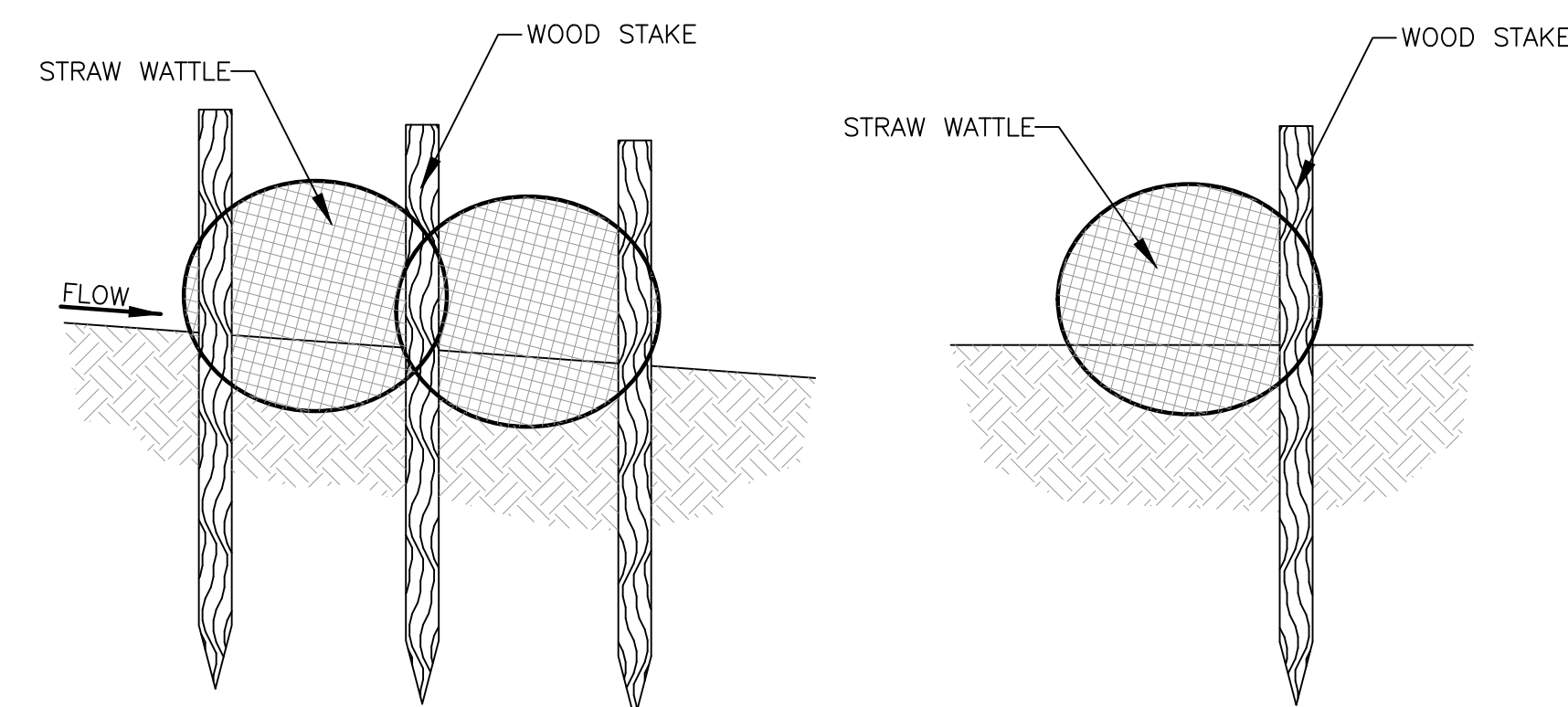
**Inlet Box Protection**



**Plan View**



**Drop Inlet Protection**



**Stake Detail**

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

**IRA**

REVISIONS	DESCRIPTION
DATE	

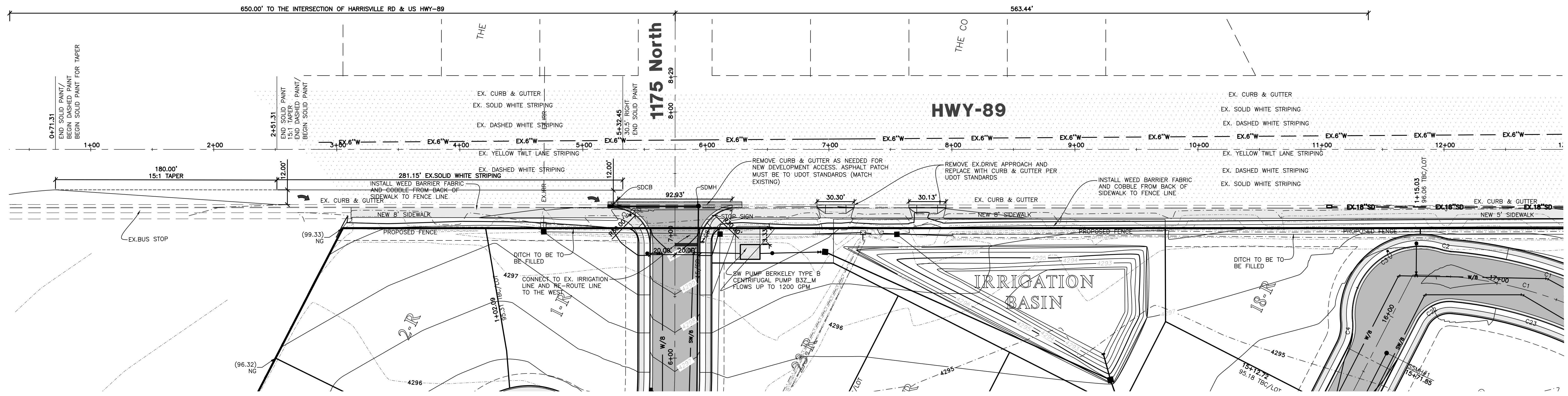
**Ashlar Cove Subdivision**  
PART OF THE SE 1/4 OF SECTION 6 AND THE SW 1/4 OF SECTION 5,  
TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE BASE & MERIDIAN, U.S. SURVEY  
HARRISVILLE CITY, WEBER COUNTY UTAH

**Storm Water Pollution Prevention Plan Details**

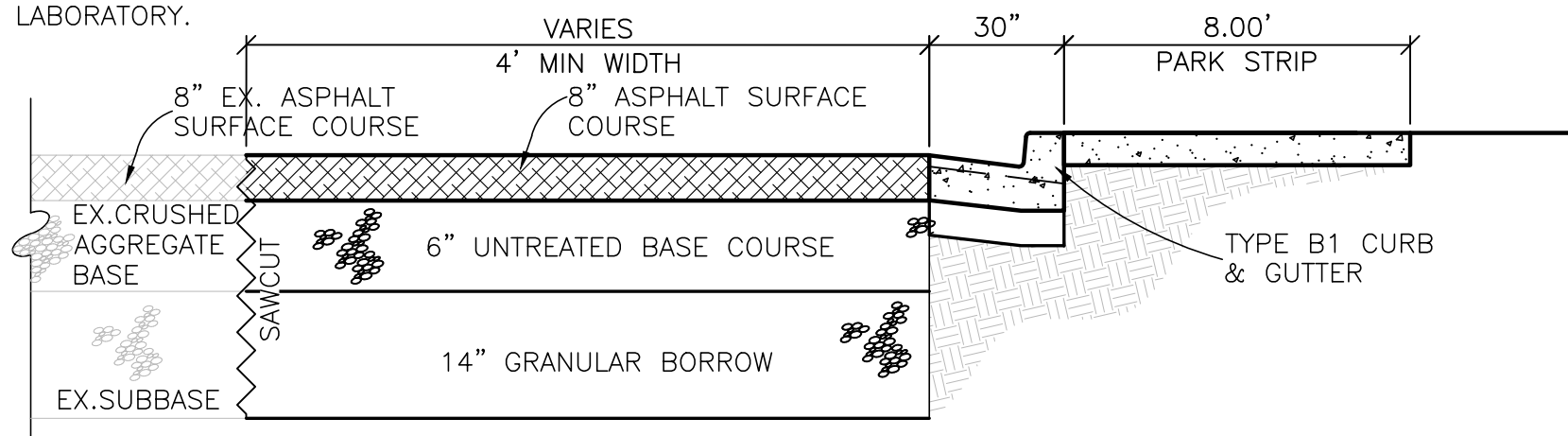
REGISTERED PROFESSIONAL ENGINEER  
338480  
JEREMY A. DRAPER  
08/26/2021  
STATE OF UTAH

**Project Info.**  
Engineer: JEREMY A. DRAPER, P.E.  
Drafted: N. FICKLIN  
Begin Date: 11/10/2020  
Name: ASHLAR COVE  
MILNE PROPERTY  
Number: 4016-10

Sheet **15** of **16** Sheets



ROADWAY CONSTRUCTION TO FOLLOW DETAILED THICKNESSES OR MATCH EXISTING (WHICHEVER IS GREATER). PROVIDE DOCUMENTATION OF COMPARISON FROM A UDOT-QUALIFIED LABORATORY.



**UDOT Street Detail**  
SCALE: NONE

- MIX DESIGN ASPHALT CONFORMING TO UDOT SPECIFICATIONS 02741
- SAWCUT AND TACK COAT VERTICAL CUTS IN ASPHALT PER UDOT SPECIFICATION 027055 PAVEMENT CUTTING

**UDOT Notes:**

- ALL CONSTRUCTION WITHIN THE UDOT RIGHT-OF-WAY SHALL CONFORM TO THE MOST CURRENT UDOT STANDARD (INCLUDING SUPPLEMENTAL) DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR IS TO OBTAIN AN ENCROACHMENT PERMIT FROM THE APPLICABLE UDOT REGION PERMIT OFFICE PRIOR TO COMMENCING WORK WITHIN UDOT RIGHT-OF-WAY. WORKING HOUR LIMITATIONS WILL BE LISTED IN THE LIMITATION SECTION OF THE ENCROACHMENT PERMIT.
- UDOT RESERVES THE RIGHT, AT ITS OPTION, TO INSTALL A RAISED MEDIAN ISLAND OR RESTRICT THE ACCESS TO A RIGHT-IN OR RIGHT-OUT AT ANY TIME.
- OWNER, DEVELOPER, AND CONTRACTOR ARE RESPONSIBLE FOR ANY DAMAGES DIRECTLY OR INDIRECTLY WITHIN THE UDOT RIGHT-OF-WAY AS A RESULT OF DEVELOPMENT ACTIVITIES.
- OWNER, DEVELOPER, AND/OR CONTRACTOR IS REQUIRED TO HIRE AN INDEPENDENT COMPANY FOR ALL TESTING WITHIN THE UDOT RIGHT-OF-WAY.
- ALL SIGNS INSTALLED ON THE UDOT RIGHT-OF-WAY MUST BE HIGH INTENSITY GRADE (TYPE XI SHEETING) WITH A B3 SLIP BASE. INSTALL ALL SIGNS PER UDOT SN SERIES STANDARD DRAWINGS.
- COMPLY WITH THE REQUIREMENTS OF UTAH CODE 17-23-14 (DISTURBED CORNERS - COUNTY SURVEYOR TO BE NOTIFIED - COORDINATION WITH CERTAIN STATE AGENCIES).
- PEDESTRIAN RAMP ARE TO MEET UDOT STANDARD SUPPLEMENTAL DRAWINGS PA SERIES. ANY NON-CONFORMING RAMP WILL BE REPLACED AT NO COST TO THE DEPARTMENT. PERMIT INSPECTORS WILL SUBMIT THE REQUIRED FORMS FOR ALL IMPACTED RAMP.
- REMOVE ALL CONCRETE SIDEWALK, CURB AND GUTTER TO NEAREST EXISTING JOINT. DUAL PARALLEL RAMP OPTIONS ARE THE FIRST STANDARD TO FOLLOW, IF CONDITIONS WILL NOT ALLOW THIS TYPE, THEN A SINGLE (APEX) RAMP OPTION WILL BE ALLOWED.
- FOR ASPHALT CONSTRUCTION WITHIN THE UDOT ROW MATCH EXISTING, OR THE ANTICIPATED EXISTING OF 8 INCHES OF UDOT APPROVED HOT MIX ASPHALT (HMA), PG-GRADE 64-34 ASPHALT BINDER, 1/2 INCH NOMINAL MAX. 7-75-115 GYRATION PER UDOT STANDARD SPECIFICATION 02741; 6 INCHES UNTREATED BAS COURSE (UTBC) PER UDOT SPECIFICATION 02721; OVER 14 INCHES GRANULAR BORROW (GB) PER UDOT SPECIFICATION 02056 (WHICHEVER IS GREATER).
- MICRO-SURFACING PER UDOT STANDARD SPECIFICATION 027355 REQUIRED FOR THIS ROADWAY ON AT LEAST ALL NEW PAVEMENT PLACED WITHIN UDOT ROW.

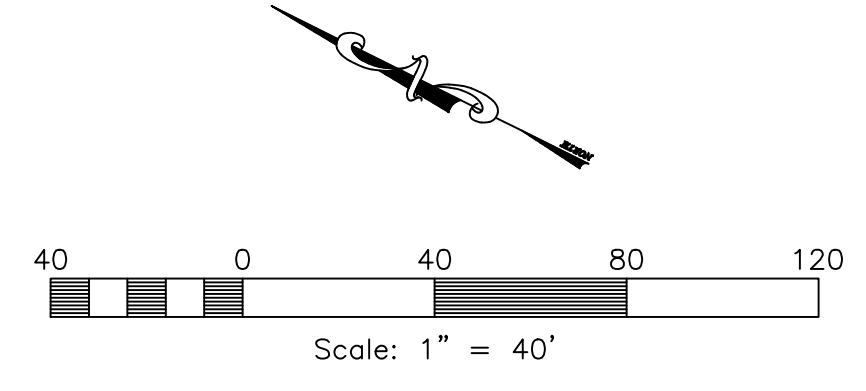
**UDOT NOTE:**  
REPAIR OR REPLACE ANY DAMAGED CURB, GUTTER &/OR DRIVEWAY. CURB & GUTTER TO BE TYPE B1 CURB, DRIVEWAY TO BE CONSTRUCTED AS GW3A (2017 UDOT DRAWING)

ALL TRENCHES TO BE REPAIRED AS A T-PATCH W/ ASPHALT THE GREATER OF 7" OR TO MATCH EXISTING IN LIFTS NO GREATER THAN 3" .10" ON EACH SIDE OF TRENCH TO BE MILLED 2" DEEP AND REPAVED AS A SINGLE PATCH.

UTILITY WORK REQUIRES SEPARATE PERMITTING, CONTRACTOR TO APPLY DIRECTLY W/ UDOT AT LEAST 30 DAYS IN ADVANCE.

ANY DAMAGED PAINT STRIPING DURING CONSTRUCTION MUST BE REDONE.

- NOTE:**
- SAWCUT MIN. 2" INTO EXISTING ASPHALT INSIDE FROM OUTER EDGE FOR TACK SEAL OF NEW ASPHALT ON ROAD WIDENING.
  - CONTRACTOR TO VERIFY 2% MINIMUM-5% MAX SLOPE FROM EDGE OF ASPHALT TO LIP OF GUTTER.
  - SLOPE SHALL FLOW TOWARDS CURB & GUTTER UNLESS SPECIFIED DIFFERENT ON PLAN.
  - ASPHALT SEAL COAT FOR ASPHALT PRESERVATION TO BE COORDINATED WITH HARRISVILLE CITY.



**LEGEND**

- SS/8 — = PROPOSED SANITARY SEWER LINE
- EX.SS — = EXISTING SANITARY SEWER LINE
- SW/8 — = PROPOSED SECONDARY WATER LINE
- EX.IRR — = EXISTING IRRIGATION WATER LINE (SIZE VARIES)
- W/8 — = PROPOSED CULINARY WATER LINE (SIZE VARIES)
- EX.W — = EXISTING CULINARY WATER LINE
- SD — = PROPOSED STORM DRAIN (SIZE VARIES)
- X — = EXISTING FENCE LINE
- FH = PROPOSED FIRE HYDRANT
- = PROPOSED STORM DRAIN/SANITARY SEWER MANHOLE
- I = PROPOSED GATE VALVE
- = PROPOSED SINGLE GRATE CATCH BASIN WITH BICYCLE-SAFE GRATE
- = AIR-VAC ASSEMBLY
- [ ] = PROPOSED CONCRETE
- [ ] = PROPOSED ASPHALT SURFACE

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 TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS	DESCRIPTION

**Ashlar Cove Subdivision**  
 PART OF THE SE 1/4 OF SECTION 6 AND THE SW 1/4 OF SECTION 5,  
 TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE BASE & MERIDIAN, U.S. SURVEY  
 HARRISVILLE CITY, WEBER COUNTY UTAH

**UDOT Exhibit**  
**U.S. Hwy-89 Access Plan**



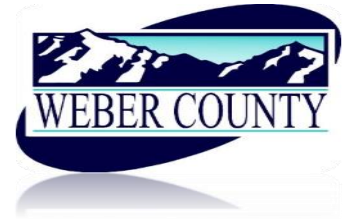
**Project Info.**

Engineer: JEREMY A. DRAPER, P.E.  
 Drafter: N. FICKLIN  
 Begin Date: 11/10/2020  
 Name: ASHLAR COVE MILNE PROPERTY  
 Number: 4016-10

September 20, 2021

Darrel Woodruff

Weber County Surveyor's  
2380 Washington BLVD., Suite 370  
Ogden, Utah 84401



To Whom It May Concern:

Based upon state code [17-23-20] the Weber County Surveyor's office has reviewed the proposed plat Annex 4 Mile Special Service District and conditional approval by this office at this time has been satisfied. Fix all required redlines on attached plat plus signatures and platting requirements will be reviewed at the time of final submittal of mylar to this office for approval and county surveyor signature. If any additional changes are made to the attached plat, another review will be required by this office for approval.

Thank you

Weber County Surveyor's Office





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# CITY *of* HARRISVILLE

---

363 West Independence Blvd · Harrisville, Utah 84404 · (801) 782-4100 · Fax (801) 782-1600

TO: Mayor and City Council

From: Justin Shinsel

9/28/2021

Sunset View Town homes Final Acceptance

I have completed a final inspection on the Sunset view Town homes Development and find it in compliance of Harrisville City standards and recommend acceptance of finalized subdivision from Eric Thomas Developer.

If there are any questions or concerns feel free to contact me at any time.

**Justin Shinsel**  
**Public Works Director**  
**8016033220**



# HARRISVILLE CITY

---

363 West Independence • Harrisville, Utah 84404 • (801) 782-4100

MAYOR:

Michelle N. Tait

COUNCIL MEMBERS:

Grover Wilhelmsen  
Steve Weiss  
Blair Christensen  
Max Jackson  
Kenny Loveland

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## MEMORANDUM

TO: Harrisville Mayor and City Council

FROM: Cynthia Benson, Deputy Recorder

RE: City Office Shredder

Date: October 7, 2021

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After working with Shred-it, the current company responsible for the shredding bin in the city breakroom, Jennie and Jackie have not been able to get them to respond. Both ladies have worked to obtain pick-up dates with Shred-it to get them to empty the shredding bin over the last month. They have yet to arrive.

Jennie looked into other possible contracts through the League of Cities and Towns and found there were no other available. She contacted Les Olsen Company for information on shredders and the cost for purchasing one for the office. The shredders would cross-cut the documents into confetti allowing the office staff to remove the remains once the bin was full.



YOUR OFFICE TECHNOLOGY PARTNER

---

A CUSTOM PROPOSAL PREPARED FOR

Harrisville City

---

Prepared By

**Brady Smith**, Senior Account Executive  
bsmith@lesolson.com | 801-336-8596



(801) 621-2323



[www.lesolson.com](http://www.lesolson.com)



1750 W 12<sup>th</sup> St, Ogden, UT 84404



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C O M P A N Y

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than paper and ink, more than  
hardware and technology

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Les Olson Company makes managing your documents easier and more efficient. Whether you're a small to medium sized business or a large company with a high output of documents - managing the flow of information is vital to your success.

Les Olson Company provides its partners with a full range of document management solutions backed by a veteran team of professionals who provide you with unbeatable service and support.

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Over 60 years of experience in the industry | A family business, locally owned and operated | Nine locations: Salt Lake City, Logan, Ogden, Lindon, Price, Manti, Cedar City, St. George and Las Vegas | We service the entire state of Utah as well as Southern Nevada | We are part of a large dealer network, which gives us the ability to support our clients throughout the country | Factory-trained and certified technicians | Professional expertise with extensive product and technical knowledge



## SERVICE & SUPPORT

We pride ourselves on our client-oriented philosophies, service response times that exceed industry-standard benchmarks, use of genuine parts and supplies and comprehensive training programs that certify 100% of our technical staff.

**SHARP PLATINUM SERVICE PROVIDER** Les Olson Company is a Sharp Platinum Service Provider; an honor reserved for Sharp's most elite dealers who meet their highest standards of operational efficiency. This award is a reflection of our best practices in the areas of service, client satisfaction, training, management and technical expertise.

**HP SERVICEONE EXPERT PARTNER** We are a proud HP ServiceOne Expert Partner. HP ServiceOne Expert Partners meet HP's most rigorous technical certification requirements. While there are thousands of HP resellers, there are only 800 HP ServiceOne Expert Partners in the world.



## ADDITIONAL SERVICES

- Managed Print Services
- In-house Leasing, giving us greater flexibility in financing options for our clients
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- Comprehensive Maintenance Contracts
- Free Supply Delivery
- Extensive Online Knowledge Base
- Complete Recycling Program



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- Sharp Multifunction Printers
- HP LaserJet Printers and MFPs
- HP Designjet Large-format Printers
- Sharp Aquos Digital Presentation Boards
- Fujitsu Scanners
- DocuWare Document Management Software
- PaperCut Print Control Software
- Paper, toner, ink and large-format media supplies

# EXECUTIVE SUMMARY

## EQUIPMENT:

### Formax FD 8402



#### Pricing

Formax FD 8402	\$2,140.00
Service Contract (per year)	\$300
Total	\$2,440.00

### Formax FD 8502AF



#### Pricing

Formax FD8502AF	\$3,271.00
Service Contract (per year)	\$395.00
Total	\$3,666.00

**LOGAN**  
435.750.8990  
917 West 600 North #108  
Logan, Utah 84321

**OGDEN**  
801.621.2323  
1750 West 12th Street  
Marriott-Slaterville, Utah 84404

**LINDON**  
801.785.5432  
480 North Geneva Road  
Lindon, Utah 84042

**CEDAR CITY**  
435.586.2345  
2130 West Highway 56, Suite D  
Cedar City, Utah 84720

**ST. GEORGE**  
435.634.1548  
3790 South River Road  
St. George, Utah 84790

**LAS VEGAS**  
702.932.7431  
2975 Lincoln Road  
Las Vegas, Nevada 89115

## Les Olson Company – Salt Lake City *Corporate Headquarters*



3244 S. 300 W., Salt Lake City, UT | 801-486-7431 | lesolson.com



Centrally located in Salt Lake City, Les Olson Company's corporate office is home to over 115 friendly and dedicated employees who provide sales, service and support to clients across the Salt Lake Valley.

Revco Leasing; our in-house leasing partner, as well as many of the company's executives and owners operate from the Salt Lake office building, providing more opportunities for flexibility and the best possible client experience.

Our large onsite warehouse is always well stocked with inventory, which is delivered directly to our clients on a daily basis. This means we're prepared with replacement equipment, parts and supplies to minimize downtime.

Les Olson Company is proud to offer unbeatable service and support for businesses not only in Salt Lake, but throughout the entire state of Utah as well as Southern Nevada with seven total locations. Each branch office has their own warehouse similarly stocked with everything our clients need to stay productive.



# HARRISVILLE CITY

363 West Independence s Harrisville, Utah 84404 s (801) 782-4100

MAYOR:

Michelle N. Tait

COUNCIL MEMBERS:

Grover Wilhelmsen

Steve Weiss

Blair Christensen

Max Jackson

Kenny Loveland

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## MEMORANDUM

TO: Harrisville Mayor and City Council

FROM: Justin Shinsel, Public Works Director

RE: Surplus of Speed Trailer

Date: October 6, 2021

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Requesting permission to send a speed sign trailer to surplus. The money that will be obtained will be put back into motorpool funds to replace with a newer more accurate sign. Speed sign trailer is inoperable and the amount to fix would cost more than the value of the trailer.