GRANTSVILLE

CITY COUNCIL

October 5th, 2022

City Council Meeting

Information Packet

AGENDA ITEM #1

Public Comments.

Public Comments will also be taken by email until 5:00 pm on October 5th, 2022. Please email comments to bbaugh@grantsvilleut.gov. Please add 'Public Comment' in the subject line.

AGENDA ITEM #2

Summary Action Items:

a. Approval of minutes from the Regular Meeting held on September 21st, 2022

b. Approval of Bills

MINUTES OF THE REGULAR MEETING OF THE GRANTSVILLE CITY COUNCIL, HELD ON SEPTEMBER 21, 2022 AT THE GRANTSVILLE CITY HALL, 429 EAST MAIN STREET, GRANTSVILLE, UTAH AND ON ZOOM. THE MEETING BEGAN AT 7:00 P.M.

Mayor and Council Members Present:
Jolene Jenkins
Scott Bevan
Jeff Hutchins
Darrin Rowberry
Jewel Allen

Council Members Not Present: Mayor Critchlow

Appointed Officers and Employees Present:
Sherrie Broadbent, Finance Director
Dan England, City Engineer
Jacob Enslen, Police Chief
Braydee Baugh, Recorder
Gina Francom, Deputy Recorder
Jesse Wilson, City Manager
Brett Coombs, City Attorney

Citizens and Guests Present: Anthon Stauffer, Thane Smith, Joann Jacobs, Rick Barchers, Matt and Sandi Brenner, Kelley and Mildred Russell, Nick Jenkins, Barry Bunderson, Ken Hale, Val Shupe, Allison Kipp, Kyle Matthews, Teri Jolynn Durfee, Carolyn Pratt, Lt. Sager, SGT Watson, Jaime and Joseph Espinosa, Mike and Rita Coon, Ellisa Pratt, Kahlea Burton, Isabelle Lewis, John Enslen, Jeremiah Bunkall, Melanie Langford, Amanda Smith, Scott Stapley, Jeff Neal

There were many members of the public present in person and via Zoom

Motion: Councilman Rowberry motioned to appoint Councilman Hutchins the Mayor Pro Temp.

Second: Councilman Allen seconded the motion.

Vote: The vote was as follows: Councilmember Rowberry, "Aye", Councilmember Allen, "Aye", Councilmember Hutchins, "Aye", Councilmember Bevan, "Aye", Councilmember Jenkins, "Aye". The motion carried.

Mayor Pro Temp Jeff Hutchins asked Youth City Council to lead the Pledge of Allegiance.

AGENDA:

1. **Public Comments:** Rick Barchers stood for public comment. Mr. Barchers would like the Council to seriously consider the implications of the annexation and interlocal agreement. Mr. Barchers was concerned with the amount of traffic and density this annexation being considered as part of Item 16 would bring to the valley. Mildred Russell stood for public comment. Ms. Russell advised Planning Commission denied this application because of the proximity to her residence. Ms. Russell reiterated her concerns with the kennel. Scott Stapley stood for public comment. Mr. Stapley was concerned about the traffic on Worthington and there was already an accident in front of the crossing guard area. Terry Durfee stood for public comment. Ms. Durfee advised she is against the proposed annexation. Ms. Durfee explained the largest concern is the water being available. Ms. Durfee advised she will start a referendum. Kyle Matthews stood for public comment. Mr. Matthews asked that City Council consider the islands this annexation will create and does not protect voter privacy. Mr. Matthews asked about what City will maintain the roads in the area. Allison Kipp stood to provide public comment regarding the annexation. Ms. Kipp advised there were multiple violations of the law related to the annexation code.

2. **Summary Action Items.**
   a. Approval of minutes from September, 7th 2022 regular meeting
   b. Approval of Bills totaling $242,836.40

   Motion: Councilmember Allen made a motion to approve the summary action items.

   Second: Councilmember Rowberry seconded the motion.

   Vote: The vote was as follows: Councilmember Rowberry, "Aye", Councilmember Hutchins, "Aye", Councilmember Bevan, "Aye", Councilmember Allen "Aye", and Councilmember Jenkins, "Aye". The motion carried.

3. **Presentation by Rocky Mountain Power to Youth City Council**
   This item was moved to Item 1 by Mayor Pro Temp. Nick Jenkins with Rocky Mountain Power was present for this item. Mr. Jenkins explained Youth City Council applied for a grant available through Rocky Mountain Power. Mr. Jenkins advised the grant is being awarded to Youth City Council. The Amount of the grant award is $3,000.

4. **Presentation by Val Shupe with the Utah Chief of Police Association recognizing Grantsville City Police Department in becoming a Utah Accredited Agency**
   This item was moved to Item 2 by Mayor Pro temp. Val Shupe was present for this item. Mr. Shupe explained there are only 19 agencies in the state who reach the

achievement of being a Utah Accredited Agency and continued it is a 3-4 year process reach this accomplishment.

5. **Consideration of Appeal for Kennel Permit for Jaime Espinosa at 187 N. Hale Street**

Jaime and Joseph Espinosa were present for this item. Ms. Espinosa explained the animals are only at her home temporarily. Ms. Espinosa explained the dogs are not going to be bred, as indicated in previous statements. Mayor Pro Temp Hutchins asked what information the applicants have that would over turn the decision made by Planning Commission. Ms. Espinosa explained the pen is being built and then pen will be 100 ft away. Councilmember Jenkins advised if this was addressed 2 years ago the issue would not be in front of council. Mayor Pro Temp Hutchins advised that he does not feel like the property can accommodate and meet the kennel requirements. Attorney Coombs advised if the application is denied the applicant would need to bring their property into compliance. Mayor Pro Temp Hutchins advised there was a 30-day time-frame to come into compliance

Motion: Councilmember Jenkins made the motion to deny appeal for the kennel permit for Jaime Espinosa for the keeping of 5 dogs at her property located at 187 N. Hale Street

Second: Councilmember Rowberry seconded the motion.

Vote: The vote was as follows: Councilmember Rowberry, "Aye", Councilmember Hutchins, "Aye", Councilmember Bevan, "Aye", Councilmember Allen "Aye", and Councilmember Jenkins, "Aye". The motion carried.

Motion: Councilmember Bevan made the motion to provide 30 days to become compliance for the kennel permit for Jaime Espinosa for the keeping of 5 dogs at her property located at 187 N. Hale Street

Second: Councilmember Rowberry seconded the motion.

Vote: The vote was as follows: Councilmember Rowberry, "Aye", Councilmember Hutchins, "Aye", Councilmember Bevan, "Aye", Councilmember Allen "Aye", and Councilmember Jenkins, "Aye". The motion carried.

6. **Consideration to approve the emergency plat amendment for Anderson Farms to allow for the Nygreen Street improvements.**

Jesse Wilson stood to represent this item. There was no discussion as this item was discussed during the regular 08/30 Special Meeting.

Motion: Councilmember Rowberry made the motion to approve the emergency plat amendment for Anderson Farms to allow for the Nygreen Street improvements.

Second: Councilmember Jenkins seconded the motion.

Vote: The vote was as follows: Councilmember Rowberry, "Aye", Councilmember Hutchins, "Aye", Councilmember Bevan, "Aye", Councilmember Allen "Aye", and Councilmember Jenkins, "Aye". The motion carried.

7. Consideration of Resolution 2022-53 awarding the Cemetery Fence RFP

Jesse Wilson was present for this item. Mr. Wilson explained the Council needed to determine which fence size they would prefer. Councilmember Rowberry advised he felt a 4 fence would be aesthetically pleasing.

Motion: Councilmember Allen made the motion approve Resolution 2022-53 awarding the Cemetery Fence RFP for the 4' fence.

Second: Councilmember Rowberry seconded the motion.

Vote: The vote was as follows: Councilmember Rowberry, "Aye", Councilmember Hutchins, "Aye", Councilmember Bevan, "Aye", Councilmember Allen "Aye", and Councilmember Jenkins, "Aye". The motion carried.

8. Discussion regarding the Interlocal Agreement with Tooele County Entities

This item was changed to a Discussion. Mayor Pro Temp Hutchins advised he has a meeting with County Councilmember Tripp regarding the specifics of this agreement. Mayor Pro Temp Hutchins advised he feels the council is less informed than previously. Mr. Wilson advised the language is not clear. Mayor Pro Temp Hutchins advised he does not know why Grantsville City would enter into an agreement other than being neighborly. Councilmember Bevan advised it would only be for emergency purposes but who determines the emergency is not clear. Councilmember Allen advised the City needs to be very protective of this resource. Attorney Coombs advised he attempted to amend the plan and identifying the emergency is problematic. Councilmember Jenkins advised her anticipation was there would be a study and the Commission Member was to come back and present for the council.

9. Consideration of Resolution 2022-55 approving the Memorandum of Understanding with Tooele Army Depot

Jesse Wilson stood to represent this item. Mr. Wilson explained this is a yearly update and with a new Colonel it needs to be updated and reassured.

Motion: Councilmember Allen made the motion to approve Resolution 2022-55 approving the Memorandum of Understanding with Tooele Army Depot

Second: Councilmember Beavan seconded the motion.

Vote: The vote was as follows: Councilmember Rowberry, "Aye", Councilmember Hutchins, "Aye", Councilmember Bevan, "Aye", Councilmember Allen "Aye", and Councilmember Jenkins, "Aye". The motion carried.

10. Consideration of Resolution 2022-56 appointing Tyler Curtis to the Parks, Trails and Recreation Advisory Board Committee as a Public Works representative

Jesse Wilson stood to present this item. Mr. Wilson explained Josh Walton has moved to a new position and Tyler Curtis has replaced him as a Parks Employee. Mr. Wilson explained he has done a lot of the work at Cherry Street Park.

Motion: Councilmember Allen made the motion to approve Resolution 2022-56 appointing Tyler Curtis to the Parks, Trails and Recreation Advisory Board Committee as a Public Works representative

Second: Councilmember Rowberry seconded the motion.

Vote: The vote was as follows: Councilmember Rowberry, "Aye", Councilmember Hutchins, "Aye", Councilmember Bevan, "Aye", Councilmember Allen "Aye", and Councilmember Jenkins, "Aye". The motion carried.

11. Consideration of Resolution 2022-57 approving the Final Plat for Provident Business Park Subdivision located at approximately 200 North and SR-138 for the creation of 11 lots in the MD Zone

Barry Bunderson and Shannon Fowles were present for this item.

Motion: Councilmember Jenkins made the motion to Consideration of Resolution 2022-57 approving the Final Plat for Provident Business Park Subdivision located at approximately 200 North and SR-138 for the creation of 11 lots in the MD Zone.

Second: Councilmember Rowberry seconded the motion.

Vote: The vote was as follows: Councilmember Rowberry, "Aye", Councilmember Hutchins, "Aye", Councilmember Bevan, "Aye", Councilmember Allen "Aye", and Councilmember Jenkins, "Aye". The motion carried.

12. Consideration of Resolution 2022-58 Approving the Annexation Agreement with Six Mile Ranch

This item was tabled at the beginning of the meeting.

13. Consideration of Ordinance 2022-25 approving the rezone of 8.385 acres of property located at approximately 448 and 454 East Main Street to go from a CD and A-10 designation to a Mixed-Use Density Designation

Rob Donigan was present for this item via Zoom. Mr. Donigan explained there was a meeting tomorrow to start working with the City on getting this developed.

Motion: Councilmember Allen made the motion to approve Ordinance 2022-25 approving the rezone of 8.385 acres of property located at approximately 448 and 454 East Main Street to go from a CD and A-10 designation to a Mixed-Use Density Designation

Second: Councilmember Rowberry seconded the motion.

Vote: The vote was as follows: Councilmember Rowberry, "Aye", Councilmember Hutchins, "Aye", Councilmember Bevan, "Aye", Councilmember Allen "Aye", and Councilmember Jenkins, "Aye". The motion carried.

14. Consideration of Ordinance 2022-26 approving the rezone of 1.29 Acres located at approximately 790 South Quirk Street to go from an A-10 Designation to an R-1-21 Zone

Todd Castagno was present via Zoom for this item. There was no discussion regarding this rezone.

Motion: Councilmember Rowberry made the motion to approving the rezone of 1.29 Acres located at approximately 790 South Quirk Street to go from an A-10 Designation to an R-1-21 Zone

Second: Councilmember Bevan seconded the motion.

Vote: The vote was as follows: Councilmember Rowberry, "Aye", Councilmember Hutchins, "Aye", Councilmember Bevan, "Aye", Councilmember Allen "Aye", and Councilmember Jenkins, "Aye". The motion carried.

15. Consideration of Ordinance 2022-27 approving the rezone of 0.5 Acres of property located at 523 East Main Street to go from an RM-7 Zone Designation to a Mixed-Use Zone Designation

Joann Jacobs was present for this item. Ms. Jacobs advised she would like to lease the building out to a business and in the future she would like to develop the property. Councilmember Jenkins asked about what type of commercial falls under the Mixed-Use zone. Attorney Coombs advised there is only a broad scope so the City can work with the applicant in determining the best options for the commercial specific to that location.

Motion: Councilmember Bevan made the motion to approve Ordinance 2022-27 approving the rezone of 0.5 Acres of property located at 523 East Main Street to go from an RM-7 Zone Designation to a Mixed-Use Zone Designation

Second: Councilmember Allen seconded the motion.

Vote: The vote was as follows: Councilmember Rowberry, "Aye", Councilmember Hutchins, "Aye", Councilmember Bevan, "Aye", Councilmember Allen "Aye", and Councilmember Jenkins, "Aye". The motion carried.

16. **Consideration of Ordinance 2022-28 approving of Grantsville City, Utah annexing into its City Limits approximately 7,888.65 Acres of Real Property Located on the North Eastern Boundary of Grantsville City, Utah to Designate this Property as a Special Overlay Zone**

    This item was tabled at the beginning of the meeting

17. **Discussion regarding the Final Plat for Willow Fields PUD Phase 1 located at approximately 830 North Old Lincoln Highway**

    Barry Bunderson was present for this item and Dustin Hall was present via Zoom. Mr. Bunderson advised there was feedback from Planning Commission that dictated he needed to add a note to the plans that is not required or was not asked for by the Geotech professional. Mr. Bunderson advised that someone from Planning and Zoning dictating him to add notes that he has to stamp as an engineer. Mayor Pro Temp Hutchins asked how this note originated. Mr. England explained there was a lot of fill on this project that was not cleared and approved prior by the City. Mr. England advised this note is more specific to this project and not typical. Mr. Bunderson requested this note be removed and deferred to the Geotech professional. Mayor Pro Temp Hutchins asked how this inspection is complete or requested. Mr. Bunderson advised there are experts who can determine the processes. Mr. England advised the Geotech is not always on-site and it would be important for Geotech to be aware of the fill that has been brought onto the site. Mr. England requested the note remain on the plans. Mr. Bunderson advised the fill is recommended to be prior to the build process to identify any settling. Councilmember Allen asked if Geotech could weigh-in on the validity of the note. Mr. Hall advised the City requires the Geotech and the quality control to be there. Mr. Hall advised the Planning Commission does not have the experience to require this note. Mr. Bunderson advised Planning Commission is not supposed to provide engineering requirements only compliance with the land use code.

18. **Discussion regarding the Concept Plan for Pheasant Hollow Subdivision**

    Jeff Neel and Barry Bunderson were present for this item. Mr. Neel explained there are different concepts they are wanting to get feedback on. Mr. Bunderson asked the Council indicate what infrastructure the applicant needs to plan for. Councilmember Jenkins

advised that she was concerned with the traffic. Mr. England noted the North road would need to be dedicated as a collector road, which would require a 45' dedication. Mr. Neel explained there was a wetland study and open space was pinpointed in that section due to that study. Mayor Pro Temp Hutchins advised the zone already allows for 1 acre lots and requested the developer work with the neighbors in that area. Mr. England noted there would need to be a road intersection every 750'. Mr. Bunderson noted there would be a proportionate law related to the requirements of dedicating land to the city. Attorney Coombs advised opinions have indicated the width of the property is appropriate to request from a developer for road improvements. There was discussion on the improvements to Booth Street in exchange of the improvements to the North proposed collector street.

19. Discussion regarding the Concept Plan for Ken Hale and the creation of two single-family dwellings in the RM-7 zone

Ken Hale was present for this item. Mr. Hale explained this property is 9' short on meeting the minimum lot size for the RM-7 zone to be able to split. Mr. Hale explained Planning Commission advised he could do a single lot with two homes. Mayor Pro Temp Hutchins confirmed it would be two lots with a shared boundary. Mr. England advised a duplex would fit better in this area than splitting the lots. Attorney Coombs advised the property can be sold individually if they are separate lots.

20. Discussion regarding the Concept Plan for Jonathan Oliver and the Scenic Vista Subdivision

No applicant present for this item.

21. Council Reports

Darrin Rowberry:
Jolene Jenkins: Youth Council will learn how to budget the grant they received.
Scott Bevan: Banners have been installed and look nice. Historical Preservation to meet on the 28th.
Jeff Hutchins: Relaunched survey, updates to Hollywood Park and proposals for park improvements. Homecoming this week.
Jewel Allen: Would like to know about funding sources for the new stage. Councilmember Jenkins advised there is a brochure available for the stage options. Councilmember Allen wanted to be at a booth for Honey Harvest Festival.
Jesse Wilson: Have been working with Dave Stewart on ARPA grants.

22. Adjourn

Motion: Councilmember Allen made the motion to adjourn

Second: Councilmember Rowberry seconded the motion.

Vote: The vote was as follows: Councilmember Rowberry, "Aye", Councilmember Hutchins, "Aye", Councilmember Bevan, "Aye", Councilmember Allen "Aye", and Councilmember Jenkins, "Aye". The motion carried.

AGENDA ITEM #3

Noise Variance Request for Ben and Kara Allen

Special Events Permit Application Levels 3 & 4

Print

[redacted]

Grantsville City
Special Events Permit Application
Level 2, 3 or 4

*** Name of Event:**

Teen Halloween party

*** Type of Event:**

Teenage Halloween costume dance

*** Number of Participants Expected:**

100

*** Event Description: (Be Specific)**

Halloween dance in our barn for our boys and high school friends/teenagers. Something wholesome and fun for kids to do on Halloween weekend. Completely free. Lots of adult supervision the entire time, including outside the barn to make sure teens don't pull out fast or disrupt neighbors.

*** Date of Event**

10/29/2022

Format: MM/DD/YYYY

*** Set up Time Start:**

7pm

*** Event Start Time:**

9pm

*** Event Take Down Time:**

11:30pm

*** Location of Event**

867 N Hale St Grantsville

(Email a Map Showing the Location and/or Route)

*** Contact Person/Person in Charge:**

Kara Allen

*** Email:**

[redacted]

*** Address:**

867 N Hale St

Street Address, City, State, Zip

*** Phone Number:**

[redacted]

Alternate Phone Number:

Does your event include the following?

(Public Property includes city-owned land, streets, sidewalks, facilities and parks)

*** A. Community Event of Public Property**

- ○ Yes
- ◉ No

(If yes, you must complete Section A)

*** B. Event Using Grantsville City Pavilions, Parks, Trails or Adjacent Parking Lots**

- ○ Yes
- ◉ No

(If yes, you must complete Section B)

*** C. Event Using Grantsville City Streets or Sidewalks**

- ○ Yes
- ◉ No

(If yes, you must complete Section C)

*** D. Event Involving More Than 300 Participants on Private Property**

- ○ Yes
- ◉ No

(If yes, you must complete Section A)

*** E. Block Party**

- ○ Yes
- ◉ No

(If yes, you must complete Section A and D)

*** F. Filming on Public Property**

- ○ Yes
- ◉ No

(If yes, you must complete Section E)

Please complete the appropriate supplemental forms based on the type and scope of your event.

*** Signature of Applicant:** Kara Allen

*** Date** 09/06/2022

Format: MM/DD/YYYY

Section A: Community Event / Block Party / Large Assembly

(Email a detailed map of the location showing where activities will take place)

Will this event interfere with or interrupt pedestrian traffic?

- ○ Yes
- ◉ No

Will this event interfere with or interrupt vehicle traffic?

- ○ Yes
- ◉ No

Will this event require closing a street?

- ○ Yes
- ◉ No

(Road closures require the applicant to rent barricades. Please show the location of proposed barricades on the map.

Will this event involve Music or other amplification?

- ◉ Yes
- ○ No

(Amplification would include microphones, sound systems or megaphones. City Nuisance Ordinance applies.)

DJ- we will keep in sound decimal ordinance. We recently insulated our barn ceiling to help with sound traveling outside the barn. It really helped.

If yes, please describe the source of music or amplificiation

Will food be served at this event?

- ○ Yes
- ◉ No

(If yes, please provide proof of food handler permits.

Will any funds or proceeds be collected from this event?

- ○ Yes
- ◉ No

If yes, will a fee be charged for admission?

- ○ Yes
- ◉ No

If yes, will products be sold at this event?

- ○ Yes
- ◉ No

How many restrooms will be available?	Toilets?	Sinks?
5	Porta potties x 4	4

List available parking including the number of spaces available:

We have 3 acres of private open field/gravel for parking

What Grantsville City services do you anticipate needing for this event?

None

Section B: Special Park / Pavilion Use

Pavilions Needed (if any):
(Please complete Pavilion Reservation Agreement on the following page.)

Email a detailed map of activities and their specific locations.

Will any funds or proceeds be collected from this event?

- ○ **Yes**
- ◉ **No**

If yes, will a fee be charged for admission?

- ○ **Yes**
- ◉ **No**

If yes, will products be sold at this event?

- ○ **Yes**
- ◉ **No**

Will this event involve music or other amplification?

- ○ **Yes**
- ○ **No**

(Amplification would include microphones, sound systems or megaphones. City Nuisance Ordinance applies.)

Grantsville

If yes, please describe the source of music or amplification.

Will you be bringing in or setting up any special equipment?

If yes, please indicate all equipment that will be set up.

After reviewing the Special Park Use Guidelines, are there event details that should be addressed

Pavilion Reservation Agreement

Desired Pavilion

Desired Pavilion

- ◯ **Cherry Street Park - Large Octagon (closest to Cherry Street)**
- ◯ **Cherry Street Park - Large Rectangle (further back of grass)**
- ◯ **Cherry Street Park - Small Octagon (closest to playground)**
- ◯ **Hollywood Park Pavilion (does not have electricity, but water is available near the restrooms)**

Pavilion Use Reservation Agreement:

I, the undersigned, signify that the information provided on this application is true and correct and I hereby accept full responsibility for any breakage or damage to the property or buildings that occurs pursuant to the use of the reserved facilities by me, my agents, or other event attendees. I agree to indemnify and hold harmless Grantsville City and its officers, officials, employees and volunteers from and against all claims, damages, losses and expenses including attorney fees arising out of acts of omissions that may be directly or indirectly attributable to myself, my agents, guests, or other event attendees. If permission is granted, I or my designated representatives agree to be present during the entire use of the facility. My signature below signifies that I agree to abide by all of the conditions of this application. Furthermore, I also agree to pay Grantsville City all costs Grantsville City may incur as a result of any failure to comply with all of these conditions including damages due to failure to leave the premises in rentable condition.

I have received a copy of the Pavilion Use Reservation Policy and agree to abide by it.

Signature of Applicant:

Date

MM/DD/YYYY

Format: MM/DD/YYYY

Section C: Street or Sidewalk Use

Email a legible, detailed map showing intersections, roads, and sidewalks affected and starting times for closures to being and end at each location. Show locations where barricades will be places. The map must show a magnified view of the area showing all streets and intersections affected. Include indicators of the direction of traffic flow.

State and/or Highway roads require separate UDOT approval. Copy of said approval will need to be submitted prior to final approval.

If any portion of a street is closed, barricades must be used. The applicant must rent or secure barricades from a licensed barricade company. As consideration for this permit, the applicant agrees to assume all liability for erection and maintenance of the barricades, agrees to clean up the area upon termination of the permitted use and agrees to assume all liability for the applicant's use of the street during the specified period. A copy of the barricade agreement will need to be submitted to the City prior to final approval of the event permit.

The applicant also agrees to provide at his own expense safety barricades which will be conspicuously displayed and lighted if the event takes place prior to dawn or after dusk. Volunteers actin as traffic control must wear high-visibility safety vests.

Please describe in detail your plans for rerouting and restricting traffic movements on streets and sidewalks. Pleas include personnel assigned to monitor and control how traffic will be handled through signalized and non-signalized intersections, how impacted neighborhoods and agencies will be notified of the changes and how volunteers or paid staff will be deployed for traffic control purposes.

For a block party which will close a street, also complete Section D.

867 N Hale St

Section D: Block Party Petition

For each block party application which involves a street closure, the applicant must secure the signatures of all residents in the area where the street will be closed. Please print the Block Party Signature Form on the grantsvilleut.gov website

Section E: Filming Application

General Terms and Conditions for filming to which the applicant agrees:

1. The permit provided with the approval of this application must be kept in possession of the applicant at all times while on location and must be made available for inspection when requested by City authorities or the public.
2. Applicant agrees to comply with all applicable Federal, State and local laws, ordinances, regulations and rules.
3. In the even an authorized representative of the City finds that the activities being conducted by the applicant unnecessarily endangers the health and safety of any persons or that said activities are or will cause damage to real or personal property, said representative, at his sole discretion, may suspend, cancel or amend this permit at any time without incurring any liability to the applicant.
4. If any changes occur to the scope permitted by the permit, the Applicant must contact the Grantsville City Manager's Office 435 884-3411 immediately.

We hereby accept this permit and agree to abide by the terms and conditions hereof. The undersigned hereby personally covenants, guarantees and warrants that he/she has the power to obligate the filming company to the terms and conditions hereof.

Media Organization:

Country of Origin:

United States

Network Affiliation:

Location Manager:

Cell Phone:

Assistant Location Manager:

Cell Phone:

Signature of Applicant:

Date

MM/DD/YYYY

Format: MM/DD/YYYY

Filming Information

Dates of Filming:

Does the filming involve restriction of public access including the stopping or disruption of vehicular or pedestrian traffic?

- ☐ **Yes**
- ☐ **No**

Does the filming require vehicle access adjacent to filming location?

- ☐ **Yes**
- ☐ **No**

If yes was marked on any item, please complete Part 1. If not, proceed to Part 2

Location: **Date:** **Time:** **Summary and Type of Shot:**

What Grantsville City services do you anticipate needing for the filming?

Grantsville

Part 1: Crew Information

Number of Crew Members: **Number of Vehicles:**

Do vehicles need to be parked adjacent to filming location?

- ☐ **Yes**
- ☐ **No**

Part 2: Location Information

AGENDA ITEM #4

Consideration of Resolution 2022-59 approving the Final Plat for Willow Fields PUD Phase 1 located at approximately 830 North Old Lincoln Highway

GRANTSVILLE CITY
RESOLUTION NO. 2022-59

A RESOLUTION APPROVING THE FINAL PLAT ON THE WILLOW FIELDS PUD SUBDIVISION FOR THE CREATION OF ELEVEN (11) COMMERCIAL/MANUFACTURING LOTS IN THE MD ZONE

Be it enacted and ordained by the City Council of Grantsville City, Utah as follows:

WHEREAS, Dustin Hall, D.A.B. & K., LLC submitted an application for a final subdivision plat for the Willow Fields PUD Subdivision in Grantsville City, Utah for the creation of twenty-seven (27) single family residential lots in the RR-1 zone;

WHEREAS, the proposed uses of the subject property are permitted in the RR-1 zone as indicated in the Grantsville City Land Use Management and Development Code (GLUMDC);

WHEREAS, the Grantsville City Planning and Zoning Commission reviewed the final plat in a regularly scheduled public meeting for compliance with the requirements of the pertinent Grantsville City code requirements, and found that the proposed final plat has met or can meet the requirements of GLUMDC;

WHEREAS, Dustin Hall, D.A.B. & K., LLC are required to construct certain public improvements;

WHEREAS, the Grantsville City Council hereby determines that it is in the best interest of the City to approve the final subdivision plat for the Willow Fields PUD Subdivision located in Grantsville City, Utah for the creation of 27 single-family residential lots in the RR-1 zone.

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF GRANTSVILLE CITY, STATE OF UTAH, AS FOLLOWS:

Section 1. Final Plat. The City of Grantsville approves the Final Plat provided in Exhibit A.

Section 2. Severability Clause. If any part or provision of this Resolution is held invalid or unenforceable, such invalidity or unenforceability shall not affect any other portion of this Resolution and all provisions, clauses and words of this Resolution shall be severable.

ADOPTED AND PASSED BY THE CITY COUNCIL OF GRANTSVILLE CITY, THIS 5th DAY OF OCTOBER, 2022.

BY ORDER OF THE
GRANTSVILLE CITY COUNCIL

_____
By Mayor Neil Critchlow

ATTEST

_____
Braydee Baugh, City Recorder

COVER

WILLOW FIELD P.U.D. PHASE 1

CHAPTER 1 STANDARD NOTES

The Grantsville City Standard Notes are required to be included as part of all construction plans for residential or commercial development. Plans submitted by public or private entities for all other types of projects within City right-of-way, its easements or property shall reference the Grantsville City Standard Notes and Specifications.

1.1 Grantsville City General Notes

1. All work done or improvements installed within Grantsville City including but not limited to excavation, construction, roadwork and utilities shall conform to the Grantsville City Construction Standards and Specifications, City Municipal Code, the latest edition of the APWA Manual of Standard Specifications and Manual of Standard Plans, the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) and any state or federal regulations and permit requirements of various governing bodies. The contractor is responsible to have a copy of these specifications and to know and conform to the appropriate codes, regulations, drawings, standards and specifications.
2. The existence and location of any overhead or underground utility lines, pipes, or structures shown on these plans are obtained by a research of the available records. Existing utilities are located on plans only for the convenience of the Contractor. The contractor shall bear full responsibility for the protection of utilities and the engineer bears no responsibility for utilities not shown on the plans or not in the location shown on the plans. This includes all service laterals of any kind. The Contractor shall, at his own expense, locate all underground and overhead interferences, which may affect his operation during construction and shall take all necessary precautions to avoid damage of the same. The Contractor shall use extreme caution when working near overhead utilities so as to safely protect all personnel and equipment, and shall be responsible for all cost and liability in connection therewith.
3. The Contractor shall take all precautionary measures necessary to protect existing utility lines, structures, survey monuments and street improvements which are to remain in place, from damage, and all such improvements or structures damaged by the Contractor's operations shall be repaired or replaced satisfactory to the City Engineer and owning utility company at the expense of the Contractor.
4. All construction shall be as shown on these plans, any revisions shall have the prior written approval of the City Engineer and Public Works Director.
5. Permits are required for any work in the public way. The Contractor shall secure all permits and inspections required for this construction.
6. Curb, gutter, and sidewalk, found to be unacceptable per City Standards and APWA shall be removed and replaced.
7. Contractor shall provide all necessary horizontal and vertical transitions between new construction and existing surfaces to provide for proper drainage and for ingress and egress to new construction. The extent of transitions to be as shown on plans.
8. Any survey monuments disturbed shall be replaced and adjusted per Tooele County Surveyors requirements.
9. All privacy walls, new or existing, are only shown on civil plans for the purpose of reviewing grading relationships; flood control and sight distance at intersections. All walls shall have a minimum 2 ft x 2 ft x 30 inch deep spot footings. Bottom of all footings on all walls shall be a minimum of 30 inches below finished grade. Walls greater than 6 feet require a separate permit and inspection by the Building Department.
10. All construction materials per APWA must be submitted and approved by the City Engineer prior to the placement of asphalt within City Right of Way. Grantsville Public Works will approve pipe zone material to be placed.
11. Request for inspection by the Grantsville City Engineering Dept. shall be made by the contractor at least 48 hours before the inspection services will be required.
12. Work in public way, once begun, shall be prosecuted to completion without delay as to provide minimum inconvenience to adjacent property owners and to the traveling public. Please see Code 17 General Provisions for more details.
13. The Contractor shall take all necessary and proper precautions to protect adjacent properties from any and all damage that may occur from storm water runoff and/or deposition of debris resulting from any and all work in connection with construction.
14. Power poles and/or other existing facilities not in proper location based on proposed improvements shown hereon will be relocated at no expense to the Grantsville City. Power lines and all other aerial utilities are to be buried and poles removed as determined by the City Engineer.
15. Curb and gutter with a grade of less than four-tenths of one percent shall be constructed by forming. Each joint shall be checked for a grade prior to construction and water tested as soon as possible after construction.
16. Contractor to follow Grantsville City Noise Ordinance Standards Code Ordinance 2018-19
17. Contractors are responsible for all OSHA requirements on the project site.
18. A UPDES (Utah Pollutant Discharge Elimination System) permit is required for all construction activities as per state law as well as providing a Storm Water Pollution Prevention Plan to the City.
19. All City maintained utilities including; waterline, fire hydrants, streetlight wiring, and storm drain must be in public right of way or in recorded easements.
20. Contractor shall work Grantsville City regular working hours of Monday through Friday 7:00 am to 4:00 pm
21. Prior to 90% bond release, a legible as-built drawing must be submitted to the Grantsville City stamped and signed by a professional engineer. As-builts must show all changes and actual field locations of storm drainage, waterlines, irrigation, street lighting, and power. As-builts will be held to the same standard as approved design drawings, no "redlined plans" allowed. In the absence of changes, copies of the approved drawings will be required stating "installed as per drawings". As-built drawings for new developments shall be submitted to the City in the following formats and quantities prior to the 90% bond release: 1 .dxf copy, 1 .pdf copy, and 1 GIS Shape file containing the same.
22. Filter fabric wrapped around an inlet grate is not an acceptable inlet sediment barrier. See Grantsville City Construction Standards and Specifications for details of approved storm water BMPs which specifically states the utilization of an Oil Water Snout Separator.
23. Asphalt paving is not allowed without a written exception from the Engineering Department and Public Works Department below an ambient temperature of 50 degrees and rising.
24. To ensure proper planting, protection and irrigation of trees, mitigating risk of tree failure or future damage to infrastructure, contractors are required to follow the standards and specifications of the ISA - International Society of Arboriculture.
25. When a proposed development borders a collector, minor collector or arterial street and is required to construct collector street fencing along the back of sidewalk, the development shall also be required put in a concrete mow strip from the back of sidewalk to underneath the fence panels. Concrete mow strips shall also be required between the sidewalk and fencing along the rear of double frontage lots.
26. Concrete for all surface improvements including but not limited to; sidewalk, driveway entrances, pedestrian ramps, curb and gutter, water ways, manhole, vault and valve collars, and any other cast in place surface concrete features shall be constructed with minimum 4,500 psi concrete.
27. Culinary Water and Sewer service laterals shall be marked on the top back of curb and lip of curb at their actual location of crossing the curb and gutter. Pins or stamps shall be used and must be installed while the concrete is still wet and will readily accept the marker. Grinding marking due to dry cement is not allowed.

1.2 Grantsville City Traffic Notes

1. When a designated "Safe Route To School" is encroached upon by a construction work zone the safe route shall be maintained in a manner acceptable to Grantsville City.
2. If the improvements necessitate the obliteration, temporary obstruction, temporary removal or relocation of any existing traffic pavement marking, such pavement marking shall be restored or replaced with like materials to the satisfaction of the City Engineer, Public Works Director or designee.
3. The street Sign Contractor shall obtain street names and block numbering from the Planning Department prior to construction.
4. The Contractor shall be responsible for providing and installing all permanent signs shown on the plans. Street name signs shall conform in their entirety to current City Standards and the latest Manual of Uniform Traffic Control Devices (MUTCD) manual. All other signs shall be standard size unless otherwise specified on the plans. All sign posts shall be installed in accordance with the current City Standards and the latest Manual of Uniform Traffic Control Devices (MUTCD) manual.
5. All permanent traffic control devices called for hereon shall be in place and in final position prior to allowing any public traffic onto the portions of the road(s) being improved hereunder, regardless of the status of completion of paving or other off-site improvements called for per approved construction drawings unless approved by the City Engineer & Public Works Director.
6. The Contractor shall be responsible for notifying Utah Transit Authority (UTA) if applicable, if the construction interrupts or relocates a bus stop or has an adverse effect on bus service on that street to arrange for temporary relocation of stop.
7. Before any work is started in the right-of-way, the contractor shall install all advance warning signs for the construction zone. The contractor shall install temporary stop signs at all new street encroachments into existing public streets. All construction signing, barricading, and traffic delineation shall conform to the Manual of Uniform Traffic Control Devices (MUTCD) per the current edition adopted by UDOT and be approved by the Grantsville City before construction begins. Traffic control plans shall be submitted as part of the engineering construction package and approved by the Grantsville City Engineer and Public Works Director.
8. All signs larger than 36" X 36" or 1296 square inches per sign pole shall be mounted on a Slip Base system per UDOT standard drawing SN 10B (detail drawing attached to standard drawings) with a "Z" bar backing. Signs of this size are not allowed to be mounted on a yielding pole.
9. Sign components such as sheeting, EC film, inks, letters and borders are all required to be from the same manufacturer. Only EC film may be used to achieve color. Vinyl EC film is not accepted.
10. All new roundabouts, crosswalks, stop bars and legends shall be installed with Paint and Glass Bead.
11. Paving asphalt binder grade shall be PG 58-28 unless otherwise approved by the City Engineer. Asphalt aggregate size shall be ½ inch for residential and collector roads. No more than 15% RAP (reclaimed asphalt pavement) by weight will be allowed in the asphalt mix design for the paving of public and private streets. Up to the 15 percent will be allowed with no change in the specific binder grade. The asphalt mix design shall have no more than 3½ % air voids.
14. Potholing: All potholes must be saw cut square and have a minimum size of 1 square foot. When repairing a pothole, sand or pea gravel meeting Grantsville City standards shall be placed over the exposed utility to a depth of 6 inches. Following the pea gravel will be flowable fill up to 1 inch below the bottom edge of the existing asphalt. The remaining portion of the hole shall be filled with asphalt, which will have an overall thickness of the existing asphalt plus 1 inch.
15. All fill within the public right of way shall be A-1-A to A-3, with the exception of top soil in the park strip for landscaping and trench backfill. Trench backfill material under pavements or surface improvements shall be clean, nonclumping, granular and flowable, 2" minus, A-1-a to A-2-7 soils according to AASHTO 145 soil Classification System. Lime treated flowable fills, if approved, shall have a 28-day strength of 65 PSI. 16. All traffic road closures involving 1 or more lanes of traffic must receive prior approval from the City Engineer, Public Works Director or his/her representative. VMS PCMS boards must be placed a minimum of 7 days in advance of any lane closure on collector, minor collector or arterial street. VMS PCMS boards must also be placed in advance of any lane closures on a subdivision street per the City Engineer's direction.
17. Roundabouts, including their ingress and egress, shall be constructed with concrete pavement. Engineer shall design cross section and submit to the City for review and approval.

1.3 Grantsville City Grading Notes

1. In the event that any unforeseen conditions not covered by these notes are encountered during grading operations, the Owner and City Engineer shall be immediately notified for direction.
2. It shall be the responsibility of the Contractor to perform all necessary cuts and fills within the limits of this project and the related off-site work, so as to generate the desired subgrade, finish grades and slopes shown.
3. Contractor shall take full responsibility for all excavation. Adequate shoring shall be designed and provided by the Contractor to prevent undermining of any adjacent features or facilities and/or caving of the excavation.
4. The Contractor is warned that an earthwork balance was not necessarily the intent of this project. Any additional material required or leftover material following earthwork operations becomes the responsibility of the Contractor.
5. Contractor shall grade the pavement area subgrade to the lines (horizontal) and elevations (vertical) shown on the plans within a tolerance of 0.1 + to 0.1 -.
6. All cut and fill slopes shall be protected until effective erosion control has been established.
7. The use of potable water without a special permit for building or construction purposes including consolidation of backfill or dust control is prohibited. The Contractor shall obtain all necessary permits for construction water from Grantsville City Engineering and Utilities Department.
8. The Contractor shall maintain the streets, sidewalks and all other public right-of way in a clean, safe and usable condition. All spills of soil, rock or construction debris shall be promptly removed from the publicly owned property during construction and upon completion of the project. All adjacent property, private or public shall be maintained in a clean, safe and usable condition.
9. In the event that any temporary construction item is required that is not shown on these drawings, the Developer agrees to provide and install such item at his own expense and at the direction of the City Engineer. Temporary construction includes ditches, berms, road signs and barricades, etc.
10. All grading work shall conform to the soils report as prepared by the Soils Engineer and approved by the City Engineer, and as shown on these plans.
11. All quality control testing shall be performed by an independent licensed and Certified third-party testing service.

1.5 Grantsville City Fire Department Notes

1. On any new home or building installation, accessible fire hydrants shall be installed before combustible construction commences and said fire hydrants shall be in good working order with an adequate water supply.
2. Contractor shall call the Public Works Department and Engineering Department for underground inspection, pressure and flush verification of all fire hydrants and fire lines before back filling.
3. Painting of the curbs and hydrant and any work necessary for protection of hydrants from physical damage shall be approved before being constructed. Hydra-finders will be installed per Grantsville City Standards detail.
4. A flow test must be witnessed by the Fire Department prior to occupancy for verification of required on-site water supply.
5. All on-site fire main materials must be U.L. listed and A.W.W.A. approved.
6. The turning radius for any fire apparatus access road and/or fire lane, public or private, shall be not less than forty-eight feet (48') outside radius equaling 96' or larger and twenty-two feet (22') inside radius and shall be paved.
7. A fire apparatus road shall be required when any portion of an exterior wall of the first story is located more than one-hundred fifty feet (150') from Fire Department vehicle access roads and/or fire lanes, public or private, in excess of one hundred fifty feet (150') in length shall be provided with an approved turn around area. Contractor/Engineer shall follow latest International Fire Code regulations at all times in regards to distance.
8. Access roads shall be marked by placing approved signs at the start of the designated fire lane, one sign at the end of the fire lane and width signs at intervals of one-hundred feet (100') along all designated fire lanes. Signs to be placed on both sides of an access roadway if needed to prevent parking on either side. Signs shall be installed at least 5', measured from the bottom edge of the sign to the near edge of pavement. Where parking or pedestrian movements occur, the clearance to the bottom of the sign shall be at least 7'. The curb along or on the pavement or cement if curb is not present, shall be painted with red weather resistant paint in addition to the signs.
9. Electrically controlled access gates shall be provided with an approved emergency vehicle detector/receiver system. Said system shall be installed in accordance with the Grantsville City F.D. approval. Gates are only allowed with prior approval.
10. All private underground fire lines that service automatic fire sprinkler systems shall be no smaller than eight (8) inches in diameter and have a Post Indicator Valve (PIV) between the water main and the building. If a PIV isn't feasible due to site constraints, a Water Indicator Valve (WIV) may be used with the approval of the City Engineer or Fire Code Official. For a WIV to be allowed, another valve must be installed on the fire service line back at the connection to the water main, which will be maintained by the City as part of it's culinary water system. All fire lines material shall be Ductile Iron. (Ductile Iron from the PIV to the building shall be permitted or Ductile Iron from the main water line to the WIV).
11. Post Indicator Valves (PIV) shall be between 6 and 40 feet from buildings not exceeding three stories or equivalent in height and between 30 and 40 feet on buildings in excess of three or more stories in height or equivalent.
12. Roads and accesses shall be designed and maintained to support the imposed loads of fire apparatus. Surface shall be paved before the application of combustible material.
13. All new buildings equipped with a Fire Department Connection (FDC) must have inlets secured with Knox brand locking FDC cap(s) with a swivel collar. All new buildings are also required to have a Knox brand key lock box mounted on the exterior building, such that Fire Department personnel may gain access in case of an emergency.

1.6 Grantsville City Water Notes

1. The following Grantsville City Water Notes are intended for general water standards only and are not all inclusive. The City has included the Culinary Water Design and Construction Standards within the City Construction Standards and Specifications.
2. No work shall begin until the water plans have been released for construction by the Engineering Department. Following water plan approval, forty-eight (48) hour notice shall be given to the Engineering Department and the Public Works Department prior to the start of construction. Notice must be given by 2:00 P.M. the business day prior to an inspection.
3. All work within Grantsville City shall conform to Grantsville City Standards and Specifications, AWWA and APWA.
4. For Residential Developments - The developer shall purchase and install meter boxes and setters according to City Standards on newly developed lots and real property at the time of water main installation. Water meters will be supplied and installed by the Grantsville Utilities Department (at Developer's expense). The developer shall also provide the site address, lot number, meter size and pay meter fees prior to building permit approval. The developer should also pay for rental of a hydrant meter, and/or use the Grantsville City Public Water Standpipe located by the Public Works Building.
5. For Commercial and Condominium Developments - The developer shall purchase and install meter boxes and setters according to City Standards. Water meters will be supplied by Grantsville City Public Works Department (at Developer's expense) and installed by Developer.
6. All water facilities shall be filled, disinfected, pressure tested, flushed, filled and an acceptable water sample obtained prior to commissioning the new water line to the Grantsville City Culinary Water Distribution System.
7. Grantsville City Utilities Department must approve water shut down which may require evening and weekend shut down as deemed necessary, requiring the contractor to be billed for overtime. 48 hour notice is required.
8. Water stub-out installations will not be construed as a commitment for water service.
9. Conditional Approval of Valved Outlet (6" and Larger): In the event the water plans show one or more valved outlets extending out of paved areas, installations of these outlets is acceptable, however, if the outlets are incorrectly located or not used for any reason when the property is developed, the developer shall abandon the outlets at the connection to the active main in accordance with the city standards and at the developer's expense.
10. All lines to be pressure tested according to Grantsville City and AWWA standards and chlorinated prior to use and final acceptance.
11. All fittings to be coated with poly fm grease and wrapped with 8-mil thick polyethylene.
12. No other utility lines may be placed in the same trench with water line unless approved by the City Engineer.
13. Any conflict with existing utilities shall be immediately called to the attention of the City Engineer or designee.
14. All water vaults will be constructed per Grantsville City standard drawings and specifications. No vaults are allowed in traffic areas without prior approval of the City Engineer.
15. Landscaping and irrigation adjacent to vaults shall drain away from vaults.
16. Once the waterline has been tested, approved and city water is flowing through the pipe, only City personnel are authorized to shut down and charge the waterline.
17. Megalug following ring or an approved equivalent shall be used on all fittings.
18. APWA plan 562, City requires stainless steel tie-down restraints with turnbuckles only. 5/8" rebar is not acceptable. Megalug followers required on all fittings and all dimensions of thrust blocking still apply. Thrust blocks may be eliminated if horizontal tie down restraints have been pre-engineered and receive prior City approval.
19. Water mains will be hot tapped as called out on the approved plans. Under special circumstances, when a contractor submits a request for a shutdown contrary to the approved plans and the request is approved at the discretion of the City Engineer or designee, the contractor must provide 48-hour notice to neighbors and those affected. If businesses are impacted by the shutdown it will be done after hours and all overtime fees for City personnel, equipment and vehicles must be paid in advance.
20. Contractors are required to write the lot number with a black permanent marker on the inside of the water meter barrels as they are installed.

Grantsville City Grading Plan Notes

1. A right-of-way encroachment permit must be obtained from Grantsville City Prior to doing any work in the existing right-of-way, on any City roads
2. Accepted Construction Drawing OR a Grading Permit must be obtained from Grantsville City prior to disturbing any vegetation or moving any soil. Contact City Engineer at 435-884-4661

Grantsville City Required Drainage certificate

1. I hereby certify that this design for the onsite drainage of this development was prepared by me (or under by direct supervision) in accordance with the provisions of Grantsville City's Standard Specifications and Drawings, and was designated to comply with the provisions thereof. I understand that the City assumes no responsibility or liability whatsoever for this design

Sheet List Table	
Sheet Number	Sheet Title
--	FINAL PLAT
1	G-001 - COVER
2	G-002 - ABBREVIATIONS AND LEGENDS
3	CS-111 - CIVIL SITE
4	CU-111 - CIVIL UTILITY
5	CG-111 - CIVIL GRADING
6	CD-111 - CIVIL DRAINAGE
7	CT-111 - CIVIL TRANSPORTATION
8	EC-111 - EROSION CONTROL
9	PP-01 - PLAN AND PROFILE
10	PP-02 - PLAN AND PROFILE
11	PP-03 - PLAN AND PROFILE
12	C-301 - CIVIL SECTIONS
13	CU-101 - SEWER EXTENSION
14	CU-102 - SEWER EXTENSION
15	CU-103 - SEWER EXTENSION
16	C-511 - EROSION CONTROL DETAILS
17	C-521 - CIVIL SURFACE DETAILS
18	C-522 - CIVIL SURFACE DETAILS
19	C-523 - CIVIL SURFACE DETAILS
20	C-531 - CIVIL STORM DRAIN DETAILS
21	C-541 - CIVIL SEWER DETAILS
22	C-551 - CIVIL WATER DETAILS
23	C-561 - CIVIL IRRIGATION DETAILS
24	C-571 - DRY UTILITY DETAILS

ZONING INFORMATION:

- CURRENT ZONE: RR-1
- SINGLE FAMILY DWELLING = PERMITTED
- FAMILY DWELLING MINIMUM LOT SIZE : 43,560 SQ. FT.
- MIN LOT FRONTAGE: 50 FT. AT FRONT PROPERTY LINE.

SETBACKS
- MIN FRONT YARD: 40 FT
- MIN REAR YARD FOR MAIN BUILDING: 30 FT
- MIN REAR YARD FOR ACCESSORY BUILDING: 2 FT
- MIN SIDE YARD FOR MAIN BUILDING, EACH SIDE, INTERIOR: 15 FT
- TWO FRONT AND TWO SIDE YARD FOR CORNER LOTS
- MIN SIDE YARD FOR ACCESSORY BUILDINGS: 4 FT
- MAX BUILDING HEIGHT: 35 FT
- MAX BUILDING LOT COVERAGE (ALL BUILDINGS): 20%

MODIFIED SETBACKS PER APPROVED P.U.D.

FOR LOTS OF THE 0.5-ACRE CLASS THE ZONING REGULATIONS ARE THOSE AS IDENTIFIED IN SECTION 15.1 R-1-21 WITH THE FOLLOWING MODIFICATIONS:
- MINIMUM YARD SETBACK ON CORNER LOTS INCLUDE: ONE FRONT YARD OF 40 FT, ONE REAR YARD OF 25 FT, ONE INTERIOR SIDE YARD OF 10 FT, AND ONE STREET SIDE YARD OF 25 FT.

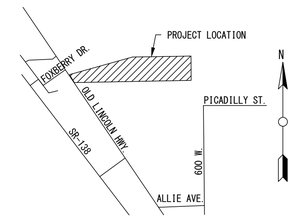
For Lots of the 1-acre class the zoning regulations are those as identified in Section 14.5 RR-1 with the following modifications:
- Minimum yard setback on corner lots include: one front yard of 40 ft, one rear yard of 30 ft, one interior side yard of 15 ft, and one street side yard of 30 ft.

SITE ANALYSIS NARRATIVE

- THE PURPOSE OF THE SITE ANALYSIS MAP IS TO ENSURE THAT THE IMPORTANT SITE FEATURES HAVE BEEN ADEQUATELY IDENTIFIED PRIOR TO THE CREATION OF THE SITE DESIGN, AND THAT THE PROPOSED OPEN SPACE (WHERE APPLICABLE) WILL MEET THE REQUIREMENTS OF CHAPTER 21, SECTION 21.1.13.
- THIS PRELIMINARY PLAN INCLUDES THE PLANNED UNIT (PUD) SUBDIVISION OF TOOELE COUNTY PARCEL 01-062-0-0102 INTO 27 RESIDENTIAL SINGLE-FAMILY LOTS IN A THREE PHASED DEVELOPMENT. THE CURRENT ZONING IS RR-1
- THE ACREAGE OF THE ENTIRE TRACT IS 1,678,178 SQ. FT. OR 38.53 ACRES.
- GENERAL VEGETATION CHARACTERISTICS INCLUDE GRASS, WEEDS, SAGEBRUSH AND A FEW SMALL TREES.
- GENERAL SOILS TYPES CONSIST PREDOMINANTLY OF SILT TO ORGANIC SILT (ML TO OL) AND SILTY CLAY (CL) EXTENDING TO THE FULL DEPTH PENETRATED. 12 FEET PER THE CMT ENGINEERING LABORATORIES GEOTECHNICAL STUDY DATED JULY 9, 2021. GROUNDWATER WAS ENCOUNTERED AT THE TIME OF FIELD EXPLORATIONS IN SEVERAL TEST PITS ABOUT 5-6 FEET BELOW THE EXISTING GROUND SURFACE. THEREFORE, GROUNDWATER MAY AFFECT DEEPER EXCAVATIONS.
- THE SITE IS IN ZONE "D" PER FEMA PANEL 49045C1605C DATED 11/18/2009
- THE PROJECT ANTICIPATES CONNECTING TO THE CITY WATER SYSTEM FOR ALL LOTS. THE PROJECT PLANS TO CONNECT TO THE CITY SEWER SYSTEM FOR ALL LOTS
- STORM DRAIN MITIGATION WILL INCLUDE A 100-YEAR RETENTION POND WITHIN THE ROADSIDE SWALES CREATED BY A SERIES OF CHECK DAMS, OR AS REQUIRED AS PART OF OPEN SPACE B AND OR LOTS 206 & 207. THE HYDRAULIC SOIL GROUP IS "C"

OPEN SPACE NARRATIVE

- OPEN SPACE MEETS REQUIREMENTS BY PROVIDING 5 ACRES OR 13% OF THE GROSS SUBDIVISION AREA. THE 5 ACRES ARE PROVIDED BY OPEN SPACE PARCELS A AND B.



VICINITY MAP
1" = 2000 FT

PRE-CONSTRUCTION MEETING DATE:
xxxxx

GRANTSVILLE CITY COUNCIL APPROVAL DATE:
xxxx

Utah Code 10-9a-509 (1) (g)

A municipality may not impose on a holder of an issued land use permit or a final, unexpired subdivision plat a requirement that is not expressed:

(i) in a land use permit;

(ii) on the subdivision plat;

(iii) in a document on which the land use permit or subdivision plat is based;

(iv) in the written record evidencing approval of the land use permit or subdivision plat;

(v) in this chapter; or

(vi) in a municipal ordinance.

GRANTSVILLE CITY ENGINEER

APPROVED BY CITY ENGINEER : GRANTSVILLE CITY, UTAH. FOR PUBLIC IMPROVEMENTS ONLY SHEETS (_____)

BY: _____ DATE: _____

GRANTSVILLE CITY ENGINEER

"Approval of these plans does not release the developer from responsibility for correction of mistakes, errors or omissions contained therein. If during the course of construction, the public interest requires a modification or a departure from the city specifications, or the approved plans, the city shall have the authority to require such modification or a departure, and to specify the manner which the same is made.

GRANTSVILLE CITY PUBLIC WORKS

APPROVED FOR CONSTRUCTION

BY: _____ DATE: _____

GRANTSVILLE CITY PUBLIC WORKS DIRECTOR

811

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UTILITY NOTIFICATION CENTER, INC
1-800-662-4111
www.bluestakes.org

CONTACTS:

ENGINEER:	CIVIL PROJ-EX	435-228-6736
SURVEYOR:	NOLAN HATHCOCK	801-568-2965
OWNER REPRESENTATIVE:	DUSTIN HALL	801-514-3623

No.	Revisions	By	Date

FINAL INFRASTRUCTURE

Designed By: BVB
Date Issued: 2022.09.13
Project Number: 20-45015
Drawn By: BVB

Project Name:
WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY, UTAH

CIVIL PROJ-EX, INC
ENGINEERS · PLANNERS
95 QUIRK STREET
GRANTSVILLE, UTAH 84029

PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
STATE OF UTAH
2022.09.13

9/13/2022 2:01:02 PM

Sheet Name:
G-001

PRE-CONSTRUCTION MEETING AGENDA NOTES

Construction Staking

- Surveying & Staking:
- We are having some alignment issues on City utilities please make sure you get adequate staking.

Geotechnical

- Does the Contractor have a copy of the Geotechnical Report and is he familiar with the requirements?
- Does the City Inspector have a copy of the Geotechnical Report and is he familiar with the requirements? The City Inspectors will be given a copy.
- Geo-tech shall monitor the excavation and determine the locations that require additional granular sub-base and specify the depth required. City would like a drawings showing the areas that require additional work.
- Who will do soils, compaction testing?

Submittals:

- The Contractor shall provide submittals for material to the City for approval prior to purchase of materials and installation. The City wants to check that the materials meet spec before they are ordered so they don't get rejected when they have been installed. Submit to Christy Montierth in Public Works.
  The City is fine with the materials that have previously been used.

Sewer

- Pipe Material: PVC ASTM D-3034 SDR-35
- Follow OSHA requirements for trenching (4' vertical with 1:1 sloping or stepping or use trench boxes).
- Sewer laterals per city standard. (APWA 431).
- Utah requirement of 10' horizontal separation between sewer and water laterals.
- 18" minimum vertical separation between water and sewer.
- Crushed Rock ¾-inch minus in pipe zone (3/8-inch rounded pea gravel is not allowed by the city).
- Sewer laterals, gravel bedding to be extended to dwelling.
- Native soils may be used above the pipe zone if they are suitable to the city and can meet compaction requirements (blending may be required).
- Offset tees for sewer laterals; gasket type.
- Compaction - 95% in roads, 90% off-road (ASTM D-1557, Modified Proctor)
- Installation as per ASTM D-2321
- All precast manholes to be provided with rubber boots and stainless-steel bands at pipe penetrations.
- Interior pipe penetrations in all sewer manholes shall be grouted.
- Tracer wire extending from main to lateral stub on all laterals and extended to surface at stub marker. Include an extra 30-feet to extend along the service to the dwelling.
- Stamp (When Wet) or pin (Do Not Grind) gutter both at the lip and top of curb an "S" at all service laterals (Two places for each service). Make sure these are located above the laterals in the proper locations.
- Extend utility lateral stub markers beyond the 15-foot PU&DE (15-feet behind back of walk).
- End of sewer laterals shall be plugged.

Testing:

- Air Test mandatory - certification required.
- Vacuum test required for the manholes.
- Video inspection after flushing - The City does not need to observe the video inspection. Video record to be provided for City review.
- Please provide the City 48 hours' notice prior to testing.

Emergency Services

- Install silt fence five feet out around fire hydrants and electrical transformers after their installation. This helps maintain a clear space around them and makes them visible if emergency services are needing to find them during construction.
- Install temporary signage at the beginning of work on the site.
- Park only on one side of access roads so emergency access is clear.
- Coordinate with Fire Chief for his inspections. Roads: face of curb to face of curb is proper distance and hydrants are properly placed. The height of the hydrants will also be inspected. 18" above ground from the pumper nozzle.
- Paint red curb ten feet either direction fire hydrants.

Culinary Water

- Pipe Material: PVC C900 DR18
- Use bedding sand for backfill in the pipe zone (City needs to preapprove sand bedding.) City wants cleaned washed sand. The City wants a bucket ahead of time so the City can wet it and see if it sets up like concrete or not. It can't set up like concrete. They can pull from the Staker pit but the sand needs to be washed. The City can provide an example for what they are looking for.
- Water laterals sand bedding needs to go to the dwelling.
- Native soils may be used above the pipe zone if they are suitable to the city and can meet compaction requirements (blending may be required)
- Valves shall be clustered in intersections
- Valves & temp. blow-off are located at the dead-end main of phase lines to allow for flushing, isolation and continued service to existing connections when future phases are constructed.
- Meter and services shall be ¾-inch polyethylene SDR11 IPS. Install service laterals and meters within 5-feet of lot lines (as close to lot line as practicable), one on each side of common lot line (alternate with secondary water).
- Use 150# corp stops.
- 10' horizontal separation of water and sewer lateral per state requirements. Water lateral to be located upslope of sewer lateral to the extent practicable.
- 18" minimum vertical separation between water and sewer.
- 10' horizontal separation of water and stormwater.
- Meter Barrels shall be 21-inch diameter white corrugated polyethylene
- Meter to be installed 18 to 22 inches below the lid.
- Place sand around the water service setter bases and above to stabilize setter and provide insulation. Gravel is not allowed.
- Tapping saddles shall be brass with double stainless steel or brass straps wrapped with polysock.
- Use dual check and heavy-duty angle valves for all services.
- Install tracer wire and locating tape above water main.
- Install tracer wire from main connection through meter pit to stub marker with 30' excess to extend to the dwelling.
- Stamp (When Wet) or pin (Do Not Grind) gutter both at the lip and top of curb with a "W" at all service laterals (2 places each service). Make sure these are located above the laterals in the proper locations.
- Thrust blocks need to be inspected by the City prior to backfill. Size based on test pressures
- Make sure fire hydrants need to be installed to the proper height to help the break a way function works.
- Hydro finders must be installed.

Testing:

- Hydrostatic Pressure Test: 200 psi for a minimum of 2 hours for main only and 150 psi if testing with tapping saddles and corporations in place - Inspector (Glen Millward or assigned City Inspector) must be present for the entire duration of the test.

Disinfection:

- Hypochlorite powder
- Chlorine residuals will be tested once by the City, but any retests will be performed by the contractor/developer
- Only one series of Bac-T testing will be performed by the City to accept water lines and any retests will be performed by the contractor/developer (preliminary investigative tests by the contractor/developer are encouraged) The City needs to do the grab on any samples.
  - Per AWWA C651, Bac-T testing shall be completed for every 1,200 feet of new water main, at the end of the line, and at each branch. Two consecutive sample sets shall be collected at the aforementioned locations at least 24 hours apart.

The City will not swing meter boxes to accommodate the driveway. Think about the lateral locations before locating the dwelling.

Storm Water

Pipe Material:

- Reinforced Concrete (RCP) and/or ADS N-12-WT
- Installation and compaction to follow manufacturers recommendations.
- All catch basin boxes include a sump. For boxes with snouts the sump depth is based upon the snout model manufactures recommendation. For all other boxes the depth is 12" below the flow line of the pipes.

Franchise Utilities

- Gas: Dominion
- Power: Rocky Mountain Power
- Cable: Comcast
- Phone: Century Link
- Please install stubs for future phases for franchised utilities so that new streets and concrete don't have to be cut to extend to a future phase.

Surface Improvements

Pavement:

- ½" or ¾-inch asphalt aggregate (1/2" is the City preference). The City Standard pavement section is 3-inch Asphalt on 6-inch UBC on 8-inch Granular Borrow. (Fabric)
- Marshall mix required prior to paving
- Road base and cross-section per approved drawings.
- Provide proper signage per Utah MUTCD.
- Provide stops bars at stop signs.
- ADA truncated dome inserts need to be yellow in ped ramps. The spacing is required to be 2" to front of ramp and no more than 2" off the sides of the walking path.
- Install "No Parking" signs in temporary turnarounds. Homeowners are parking vehicles in them.

Concrete:

- Air test every 50 yards unless results are out of spec (5% - 7%)
- 3 cylinders every 50 yards
- 4,500 psi concrete for all surface improvements.
- Sidewalk section is 6" PCC on 6" UBC.

Earthwork:

- Provide compaction and sieve analysis on all initial proctors and new material.
- Compaction tests every 100 feet of pipe trench. Vary depths to provide results throughout strata.
- Road work and base - both shoulders and centerline with a maximum of 200' between tests.
- Proof roll trenches, subgrade, and base
- Minimum of four compaction tests around each manhole and cleanout.
- Use APWA Detail 255 for pipe trench patching.

Testing and QA/QC

- 48-hour notice is required prior to any testing, Make sure the test is scheduled.
- Inspector(s) representing the city must be present for all testing including those performed by an independent agency.
- Public Works hours are 7 am to 3:30 pm Monday through Friday. However, the City will work with Contractor if Contractor is working outside these hours.
- Compact fill in 8" lift's.

Construction Water

- Contractor shall obtain water for construction from a city approved fire hydrant using a hydrant meter rented from the city. There is a $1600 refundable deposit for hydrant meters and a charge of $6 per 1000 gallons for all water used, $75 a month rental charge.
- Please don't damage the meters and don't take anything off the meter.

Erosion Control / Storm Water System Protection

- Minimize potential for off-site run-off
- Minimize disturbed areas.
- Keep working area wetted to minimize dust
- Provide silt fence to prevent sediment transport downstream.
- Contain all sediment on site.
- Maintain BMPs as per SWPPP.
- SWPPP to be on-site at all times.
- Proof of coverage under UPDES required
  - City will need a copy of the NOI.
- The City is on Compliance Go, Make sure updates are loaded in Compliance Go. Add the City Public Works e-mail contact. Have a RSI and PTOE on site.
- The City will check with the contractor after an event.
- The City will share inspection reports with the Contractor.
- Inspect after rainfall and other events (weather, and construction around BMPs) that may affect BMPs.
- Make sure to follow the SWPPP as shown on the plans.
- Provide vegetative cover on completed or long-term temporary grading within 14 days.
- Put the SWPPP sign on site and visible so the State can see it on a drive by.

Construction Debris Disposal

- Maintain a work site that is clean as possible and properly dispose of debris and trash.
- No garbage pits allowed
- No on-site concrete washout allowed unless hauled from site at end of project or other provisions are made.

Site Safety

- Conform to OSHA Standards.
- Close trenches at night.
- Secure open trenches and plug lines.

Security

- Secure construction equipment when not in use.

Sanitation

- Clean and properly maintained Port-A-John(s) on site at all times.

Hazardous Material Storage on Site

- If there are hazardous materials on site, make sure the City has approved it and that it has secondary containment. The Fire Chief needs to know what is on site, how it is secured and were it is located.

Site Access

As shown on the SWPPP don't deviate from it.

Construction Observation

- City personnel will inspect regularly as needed.

Construction Drawings

- Keep an accurate set of As-Builts.
- Provide copies of As-Builts at completion of project prior to occupancy.
- Make sure changes in as-builts are bubbled and clear as what changes have occurred.
- City has storm basin plan certification the designing engineer needs to sign and stamp.
- Provide digital set of As-Builts (PDF, DWG and Shape Files are required.) for City prior to occupancy.
- City will provide a list of items required in the shape file.
- Kristy will provide her requirements for the construction drawings.
- If there are questions about the plans and conditions on the ground first request the design engineer's interpretation and bring that interpretation to the City when questions come up. The onsite inspectors cannot make approvals to changes, document changes.

Construction Drawings:

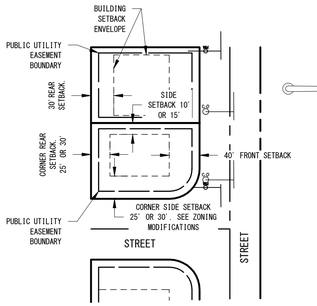
Don't print any plans until all of the changes have been made and you have received a copy of the signed plans from Kristy Clark.

1. Provide Kristy Clark with one 24x36 and Four 11x17's.

END.

FITTING SCHEDULE

REDUCERS	R10X8 (10'' BY 8'' REDUCER) SMALL END SIZE (in) LARGE END SIZE (in) FITTING DESIGNATION, R = REDUCER
TEES	T8X6 (8'' BY 8'' BY 6'' TEE) BRANCH PIPE SIZE (in) THROUGH PIPE SIZE (in) FITTING DESIGNATION, T = TEE
BENDS AND CAPS	B12.45 (12'', 45° BEND) BEND ANGLE (DEGREES) BEND SIZE (in) FITTING DESIGNATION, B = BEND, C = CAP

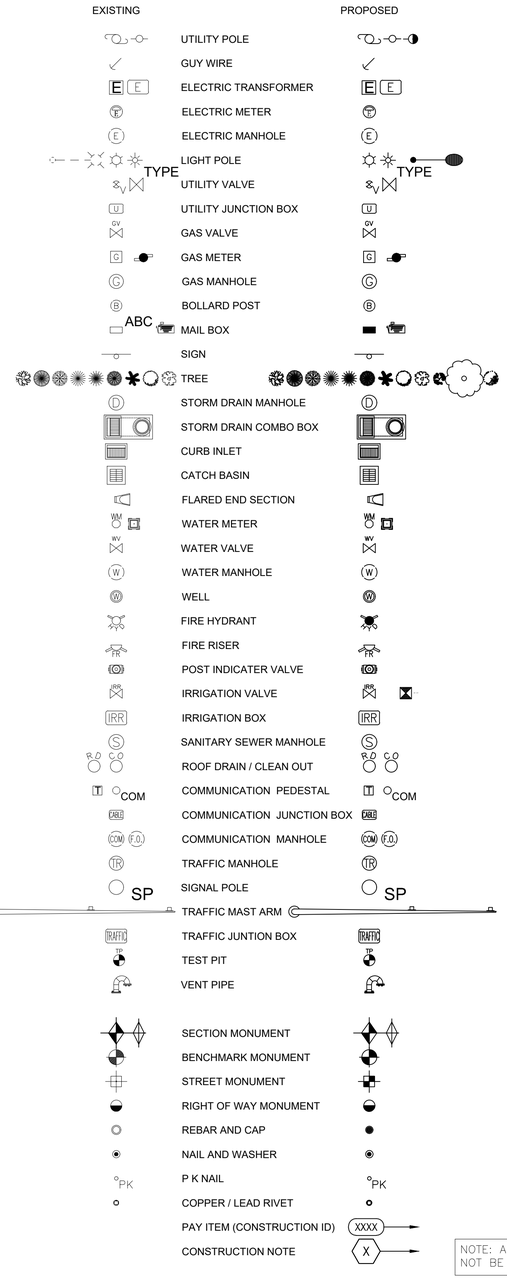


UTILITY SERVICE LATERAL LOCATIONS

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1 UTILITY SERVICE LATERAL SCHEMATIC
SCALE: NTS

SYMBOLS



NOTE: ALL SYMBOLS, LINETYPES AND/OR ABBREVIATIONS MAY NOT BE SHOWN.

ABBREVIATIONS

ABUT.	= ABUTMENT
AGG.	= AGGREGATE
APPROX.	= APPROXIMATE
A.S.	= AS SHOWN
AUX.	= AUXILIARY
AVG.	= AVERAGE
BCR	= BEGIN OF CURB RETURN
BOW	= BACK OF WALK
BRG.	= BEARING
℄ /C.L.	= CONTROL LINE/CENTER LINE
CATV	= CABLE TELEVISION
CI	= CAST IRON
CLR.	= CLEAR/CLEARANCE
CMP	= CORRUGATED METAL PIPE
COL	= COLUMN
CONC.	= CONCRETE
CONN	= CONNECTION
CONST.	= CONSTRUCTION
CONT.	= CONTINUOUS
COR.	= CORNER
CP	= CONTROL POINT
C.F.	= CUBIC FEET
DI	= DUCTILE IRON
DIA./Ø	= DIAMETER
DIP	= DUCTILE IRON PIPE
DIM.	= DIMENSION
DR	= DIMENSION RATIO
DWG.	= DRAWING
E	= EAST
EA	= EACH
ECR	= END OF CURB RETURN
EL./ELEV.	= ELEVATION
ELEC	= ELECTRIC
EO	= EDGE OF OIL
EST.	= ESTIMATED
EXIST	= EXISTING
F.F.	= FINISHED FLOOR
F.G.	= FINISHED GRADE
FL/FL	= FLOW LINE
FT.	= FEET
FLG.	= FLANGE
GA.	= GAUGE
G	= GALLON
GALV.	= GALVANIZED
GMH	= GAS MANHOLE
GV	= GAS VALVE
HA	= HECTARE
HDPE	= HIGH DENSITY POLYETHYLENE
HGL	= HYDRAULIC GRADE LINE
HMA	= HOT MIX ASPHALT
HORIZ.	= HORIZONTAL
HP	= HIGH PRESSURE/HIGH POINT
HWY	= HIGHWAY
I.D.	= INSIDE DIAMETER
INCL.	= INCLUDES
INT	= INTERSECTION
INV	= INVERT
IRRIG	= IRRIGATION
L	= LENGTH
LF OR LIN. FT.	= LINEAR FEET
LOC	= LIP OF CURB
LOC.	= LOCATION
LP	= LIGHT POLE/LOW POINT
LT	= LEFT
M.J.	= MECHANICAL JOINT FITTING
MISC.	= MISCELLANEOUS
MPa	= MEGAPASCAL
MAX.	= MAXIMUM
MG	= MEGAGRAM
MH	= MANHOLE
MIN.	= MINIMUM
N/NO.	= NORTH
NO./#	= NUMBER
N.T.S.	= NOT TO SCALE
O.C.	= ON CENTER
O.D.	= OUTER DIAMETER
OHP	= OVER HEAD POWER
PC	= POINT OF CURVATURE
PED	= PEDESTRIAN
PI/P.I.	= POINT OF INTERSECTION
PIP	= PLASTIC IRRIGATION PIPE
PL	= PROPERTY LINE
POC	= POINT ON CURVE
PP	= POWER POLE
PT	= POINT
PT	= POINT OF TANGENCY
PVC	= POLYVINYL CHLORIDE PLASTIC
PVC	= POINT OF VERTICAL CURVATURE
PVT	= POINT OF VERTICAL TANGENCY
PVI	= POINT OF VERTICAL INTERSECTION
PVMNT	= PAVEMENT
PVRC	= POINT OF VERTICAL REVERSE CURVE
R/RAD.	= RADIUS
R/C	= REBAR AND CAP
Rd.	= ROAD
RCP	= REINFORCED CONCRETE PIPE
R/W	= RIGHT OF WAY
REINF.	= REINFORCING
REQ'D	= REQUIRED
RET.	= RETAINING
R.P.	= REFERENCE POST
RT	= RIGHT
S	= SLOPE
S/SO.	= SOUTH
SCH	= SCHEDULE
SD	= STORM DRAIN
SDMH	= STORM DRAIN MANHOLE
SDR	= STANDARD DIMENSION RATIO
SDWLK	= SIDEWALK
SECT./SEC	= SECTION
SHLD	= SHOULDER
SHT	= SHEET
SPA.	= SPACING/SPACES
SQ.	= SQUARE
STA.	= STATION
STD.	= STANDARD
STD.	= STANDARD DRAWING
STR.	= STRUCTURE
SS	= SANITARY SEWER
SSMH	= SANITARY SEWER MANHOLE
T	= TANGENT DISTANCE
TA	= TOP OF ASPHALT
T.B.	= THRUST BLOCK
TBC	= TOP BACK OF CURB
TBW	= TOP BACK OF WALK
TC	= TOP OF CONCRETE
TEL	= TELEPHONE
TEMP	= TEMPORARY
TMH	= TELEPHONE MANHOLE
TOW	= TOP OF WALL
TYP.	= TYPICAL
UG	= UNDERGROUND
UTIL.	= UTILITY
VC	= VERTICAL CURVE
VERT.	= VERTICAL
W	= WEST
W/	= WITH
WC	= WITNESS CORNER
WMH	= WATER MANHOLE
WV	= WATER VALVE
YD^2/YD2	= SQUARE YARD

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Revisions		

FINAL INFRASTRUCTURE

Designed By: BVB
Date Issued: 2022.09.13
Project Number: 20-45015
Drawn By: BVB

Project Name:
WILLOW FIELDS P.U.D.
GRANTSVILLE, TOOELE COUNTY, UTAH

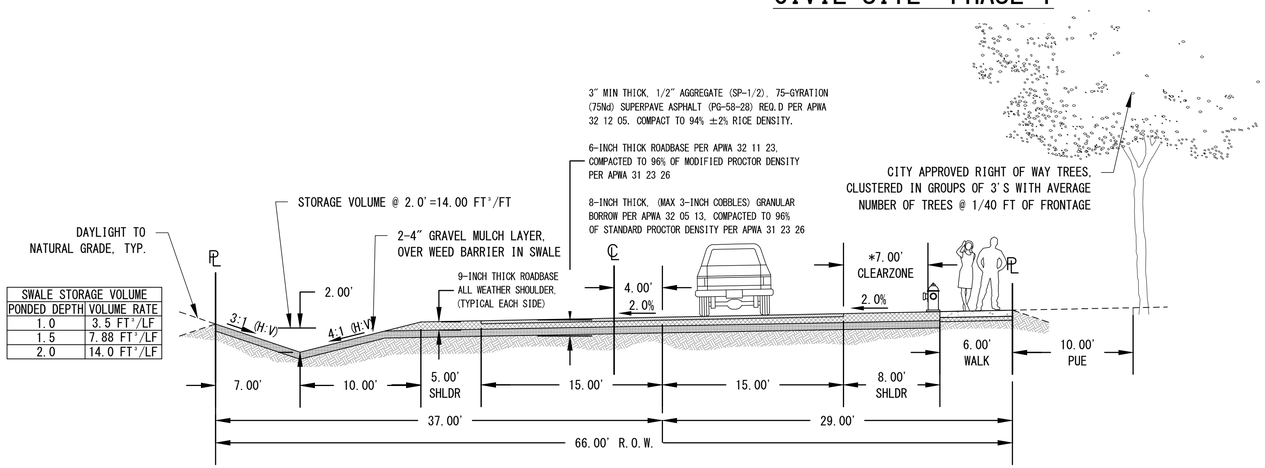
CIVIL PROJ-EX, INC
ENGINEERS, PLANNERS
96 QUIRK STREET
GRANTSVILLE, UTAH 84029

PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
Barry V. Bunderson
2022.09.13
STATE OF UTAH

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CIVIL SITE PHASE 1

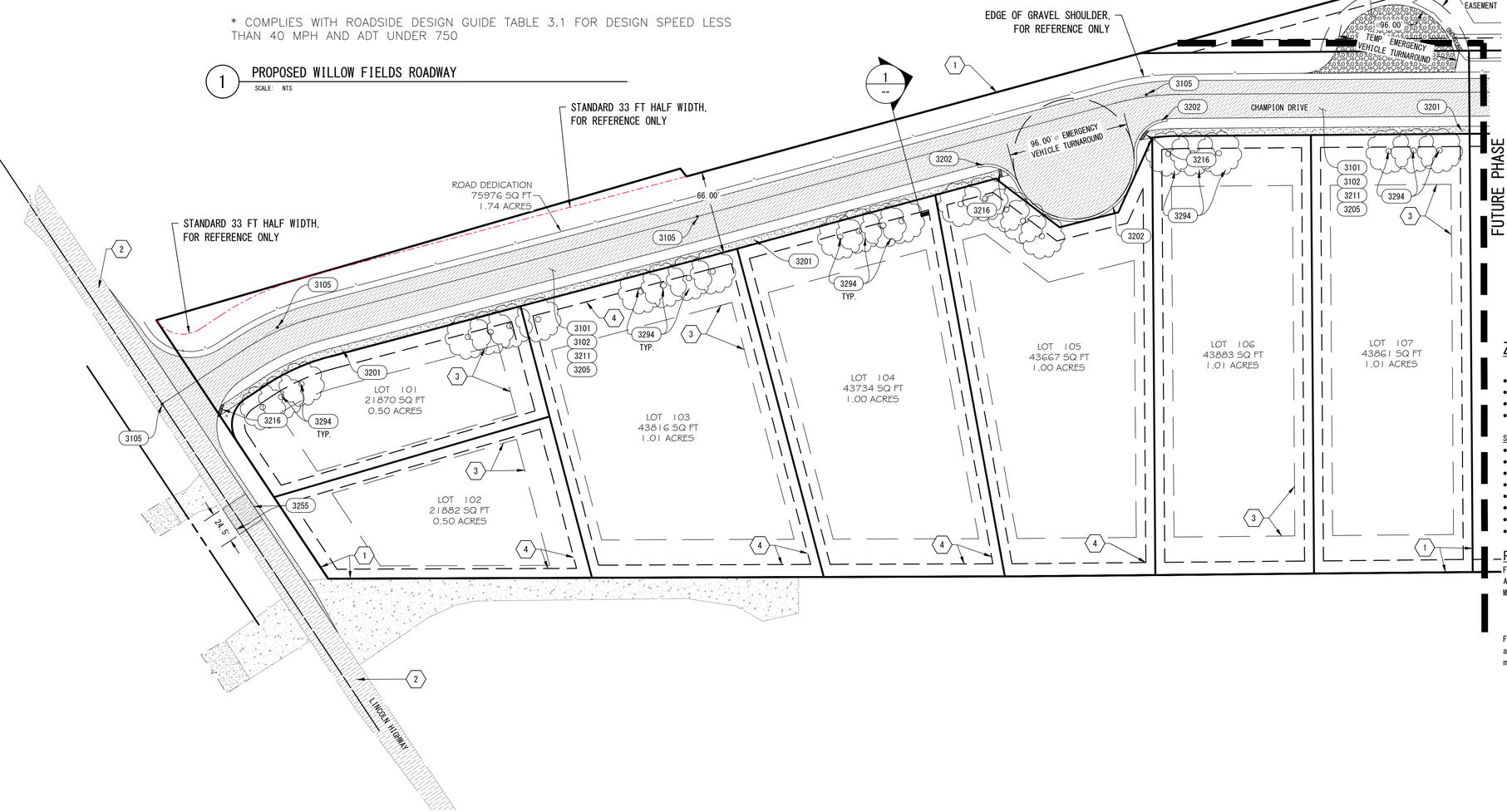


SWALE STORAGE VOLUME	
PONDED DEPTH	VOLUME RATE
1.0	3.5 FT³/LF
1.5	7.88 FT³/LF
2.0	14.0 FT³/LF

* COMPLIES WITH ROADSIDE DESIGN GUIDE TABLE 3.1 FOR DESIGN SPEED LESS THAN 40 MPH AND ADT UNDER 750

1 PROPOSED WILLOW FIELDS ROADWAY

SCALE: NTS



SCALE: 1" = 50'

0 50 100 150

N

PAY ITEMS

3101	UNCLASSIFIED ROADWAY EXCAVATION
3102	8-INCH THICK GRANULAR BORROW
3105	STREET MONUMENT, PER APWA PLAN 272, 273, 274, 275
3201	CONCRETE SIDE WALK, APWA PLAN 231
3202	CONCRETE RIBBON CURB, APWA 205.1 TYPE R, SEE DETAIL
3205	3-INCH THICK 75Nd SUPERPAVE ASPHALT PG 58-28, 1/2-INCH MIX
3206	8 UNIT COMMUNITY MAILBOX, FLORENCE 1570-8XX MODEL (OR EQUAL) W/ 6" x 42" x 42" CONCRETE PAD.
3211	6-INCH THICK ROAD BASE, SEE TYPICAL SECTION
3216	CURB RAMP, APWA PLAN 235.2
3255	ASPHALT PAVEMENT T-PATCH, APWA PLAN 255
3294	RIGHT OF WAY TREE PER CITY APPROVED STANDARD LIST

CONSTRUCTION NOTES

1. PROPERTY BOUNDARY
2. EXISTING ASPHALT PAVEMENT
3. BUILDING SETBACK ENVELOPE REQUIREMENTS
4. PUBLIC UTILITY AND DRAINAGE EASEMENT

ZONING INFORMATION:

- CURRENT ZONE: RR-1
- SINGLE FAMILY DWELLING = PERMITTED
- FAMILY DWELLING MINIMUM LOT SIZE : 43,560 SQ. FT.
- MIN LOT FRONTAGE: 50 FT. AT FRONT PROPERTY LINE.

SETBACKS
- MIN FRONT YARD: 40 FT
- MIN REAR YARD FOR MAIN BUILDING: 30 FT
- MIN REAR YARD FOR ACCESSORY BUILDING: 2 FT
- MIN SIDE YARD FOR MAIN BUILDING, EACH SIDE, INTERIOR: 15 FT
- TWO FRONT AND TWO SIDE YARD FOR CORNER LOTS
- MIN SIDE YARD FOR ACCESSORY BUILDINGS: 4 FT
- MAX BUILDING HEIGHT: 35 FT
- MAX BUILDING LOT COVERAGE (ALL BUILDINGS): 20%

P.U.D. SETBACK MODIFICATIONS

FOR LOTS OF THE 0.5-ACRE CLASS THE ZONING REGULATIONS ARE THOSE AS IDENTIFIED IN SECTION 15.1 R-1-21 WITH THE FOLLOWING MODIFICATIONS:

- MINIMUM YARD SETBACK ON CORNER LOTS INCLUDE: ONE FRONT YARD OF 40 FT, ONE REAR YARD OF 25 FT, ONE INTERIOR SIDE YARD OF 10 FT, AND ONE STREET SIDE YARD OF 25 FT.

For Lots of the 1-acre class the zoning regulations are those as identified in Section 14.5 RR-1 with the following modifications:

- Minimum yard setback on corner lots include: one front yard of 40 ft, one rear yard of 30 ft, one interior side yard of 15 ft, and one street side yard of 30 ft.

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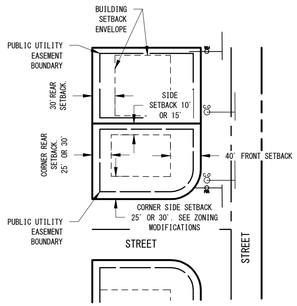
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Sheet Name:
CS-111

CIVIL UTILITY PHASE 1



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1 UTILITY SERVICE LATERAL SCHEMATIC

SCALE: NTS

SCALE: 1" = 50'

0 50 100 150

N

250' FIRE HYDRANT RADIUS

250' FIRE HYDRANT RADIUS

SSMH. 1
STA:11+12.12 OFF:-8.25L
RIM:4298.58
INV OUT (E):4286.16 8" PVC

SSMH. 2
STA:14+24.18 OFF:-5.00L
RIM:4287.64
INV IN (W):4275.20 8" PVC
INV OUT (E):4275.00 8" PVC

SSMH. 3
STA:18+23.42 OFF:-6.72L
RIM:4265.91
INV IN (W):4254.06 8" PVC
INV OUT (E):4253.96 12" PVC

SSMH. 4
STA:21+02.59 OFF:-5.00L
RIM:4264.55
INV IN (W):4253.34 12" PVC
INV OUT (E):4253.24 12" PVC

ROAD DEDICATION
75976 SQ FT
1.74 ACRES

313.19' of 8" PVC @ 3.50%

400.00' of 8" PVC @ 5.23%

279.96' of 12" PVC @ 0.22%

CHAMPION DRIVE

LINCOLN HIGHWAY

FUTURE PHASE

LOT 101	21870 SQ FT	0.50 ACRES
LOT 102	21882 SQ FT	0.50 ACRES
LOT 103	43816 SQ FT	1.01 ACRES
LOT 104	43734 SQ FT	1.00 ACRES
LOT 105	43667 SQ FT	1.00 ACRES
LOT 106	43883 SQ FT	1.01 ACRES
LOT 107	43861 SQ FT	1.01 ACRES

PAY ITEMS

0241	REMOVE EXISTING IRRIGATION PIPE
3281	SECONDARY WATER SERVICE, 1 INCH
3281.5	SECONDARY WATER PIPE, 1.5-INCH POLY,
3301	POTABALE WATER SERVICE, 1-INCH, CITY STD
3306	GATE VALVE, 6-INCH, AWWA C509
3308	GATE VALVE, 8-INCH, AWWA C509
3309	BLUE PVC PIPE, 8-INCH, AWWA C900 SDR 18 WATER MAIN, SEE CITY WATER MAIN TRENCH
3312	GATE VALVE, 12-INCH, AWWA C509
3319	FIRE HYDRANT ASSEMBLY, CITY STD
3320	2-INCH BLOW OFF ASSEMBLY, CITY STD
3331	SANITARY SEWER MANHOLE, 4-FT DIAMETER, COMPLETE, APWA PLAN 402, 411, 413
3332	SANITARY SEWER MANHOLE, 5-FT DIAMETER, COMPLETE, APWA PLAN 402, 411, 413
3333	PVC SDR 35 SANITARY SEWER LATERAL, APWA PLAN 431
3334	PVC SANITARY SEWER PIPE, 8-INCH, SDR 35, APWA PLAN 381 & 382
3335	PVC SANITARY SEWER PIPE, 12-INCH, SDR 35, APWA PLAN 381 & 382
3347	EXCAVATED STORM WATER POND
3350	HDPE FLARED END SECTION WITH TRASH GUARD AND 1 C.Y. OF 6" RIP RAP
3371	PVC CONDUIT, 3-INCH

CONSTRUCTION NOTES

1. EXISTING SEWER MAIN
2. EXISTING IRRIGATION PIPE
3. EXISTING WATER MAIN
4. EXISTING FIRE HYDRANT
5. EXISTING GAS, DOMINION ENERGY
6. EXISTING ELECTRIC COORDINATE WITH ROCKY MOUNTAIN POWER
7. EXISTING COMMUNICATION, CENTRYLINK
8. EXISTING UTILITY POLE
9. EXISTING SANITARY SEWER MANHOLE
10. CONCEPTUAL GAS LAYOUT

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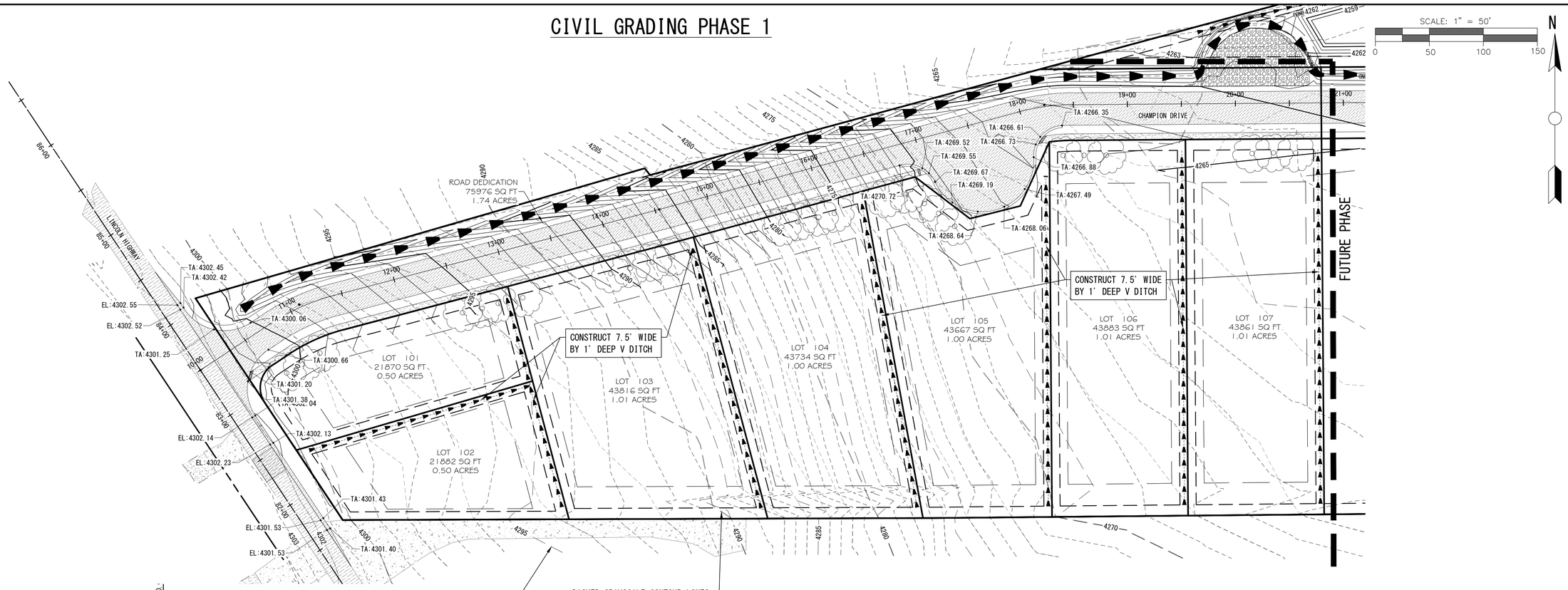
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GRANTSVILLE, UTAH 84029

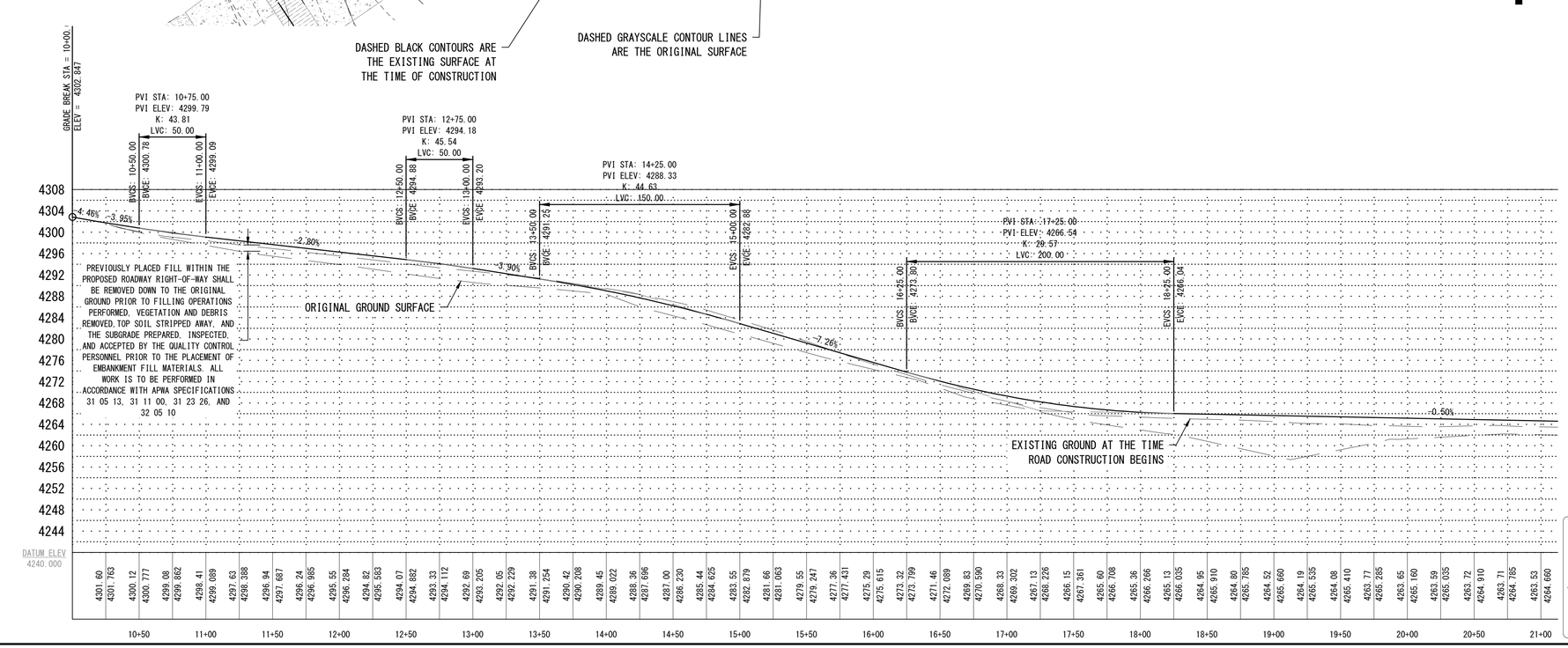
PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
STATE OF UTAH
2022.09.13

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Sheet Name:
CU-111

CIVIL GRADING PHASE 1





No.	Revisions	By	Date

FINAL INFRASTRUCTURE

Project Number	Designed By	Date Issued
20-45015	BVB	2022.09.13
Drawn By		
BVB		

Project Name:

WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY, UTAH

CIVIL PROJ-EX, INC
ENGINEERS • PLANNERS
96 QUIRK STREET
GRANTSVILLE, UTAH 84029

PROFESSIONAL ENGINEER
7224167
BARRY V.
BUNDERSON
STATE OF UTAH
2022.09.13

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Sheet Name:

CG-111

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CIVIL DRAINAGE PHASE 1

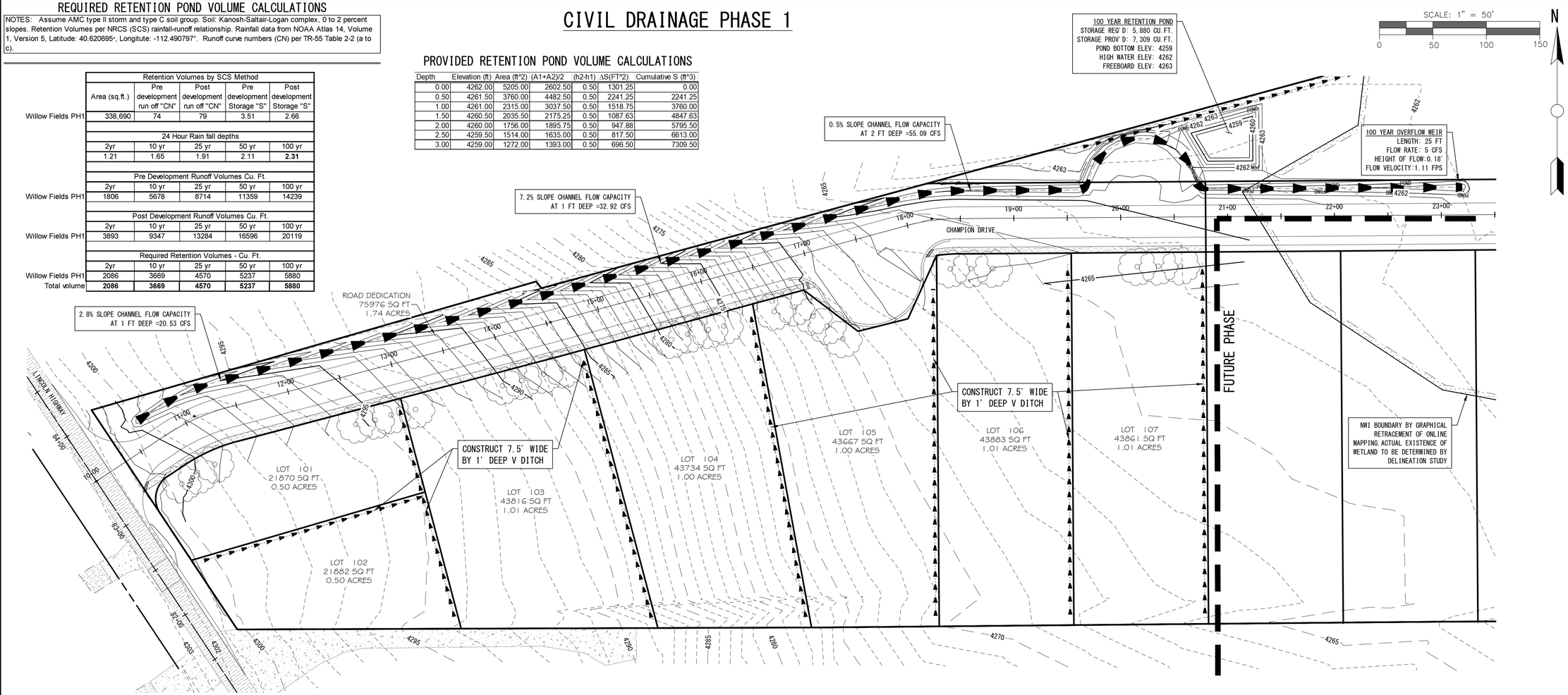
REQUIRED RETENTION POND VOLUME CALCULATIONS

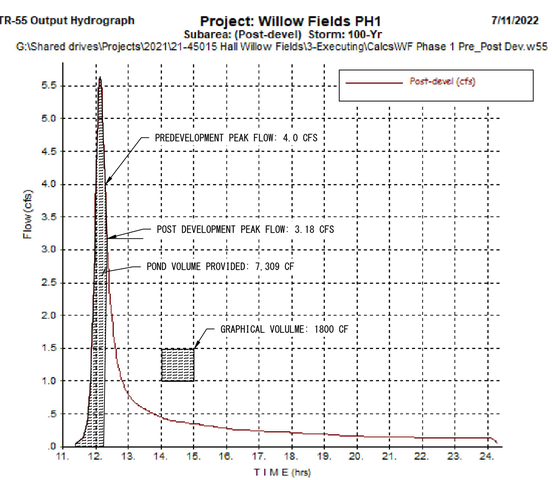
NOTES: Assume AMC type II storm and type C soil group. Soil: Kanosh-Saltair-Logan complex, 0 to 2 percent slopes. Retention Volumes per NRCS (SCS) rainfall-runoff relationship. Rainfall data from NOAA Atlas 14, Volume 1, Version 5, Latitude: 40.620695°, Longitute: -112.490797°. Runoff curve numbers (CN) per TR-55 Table 2-2 (a to c).

Retention Volumes by SCS Method					
	Area (sq.ft.)	Pre development run off "CN"	Post development run off "CN"	Pre development Storage "S"	Post development Storage "S"
Willow Fields PH1	338,690	74	79	3.51	2.66
24 Hour Rain fall depths					
	2yr	10 yr	25 yr	50 yr	100 yr
	1.21	1.65	1.91	2.11	**2.31**
Pre Development Runoff Volumes Cu. Ft.					
	2yr	10 yr	25 yr	50 yr	100 yr
Willow Fields PH1	1806	5678	8714	11359	14239
Post Development Runoff Volumes Cu. Ft.					
	2yr	10 yr	25 yr	50 yr	100 yr
Willow Fields PH1	3893	9347	13284	16596	20119
Required Retention Volumes - Cu. Ft.					
	2yr	10 yr	25 yr	50 yr	100 yr
Willow Fields PH1	2086	3669	4570	5237	5880
Total volume	**2086**	**3669**	**4570**	**5237**	**5880**

PROVIDED RETENTION POND VOLUME CALCULATIONS

Depth	Elevation (ft)	Area (ft^2)	(A1+A2)/2	(h2-h1)	ΔS(FT^2)	Cumulative S (ft^3)
0.00	4262.00	5205.00	2602.50	0.50	1301.25	0.00
0.50	4261.50	3760.00	4482.50	0.50	2241.25	2241.25
1.00	4261.00	2315.00	3037.50	0.50	1518.75	3760.00
1.50	4260.50	2035.50	2175.25	0.50	1087.63	4847.63
2.00	4260.00	1756.00	1895.75	0.50	947.88	5795.50
2.50	4259.50	1514.00	1635.00	0.50	817.50	6613.00
3.00	4259.00	1272.00	1393.00	0.50	696.50	7309.50






```
Civil Proj                    Willow Fields PH1
                              Phase 1 Pre-Dev.
                              Tooele County, Utah

                    Hydrograph Peak/Peak Time Table

 Sub-Area       Peak Flow and Peak Time (hr) by Rainfall Return Period
 or Reach      10-Yr     100-Yr
Identifier     (cfs)      (cfs)
               (hr)       (hr)
-------------------------------------------------------------------------
SUBAREAS
Post-devel      2.15       5.33
              12.14      12.15

Pre-develo      1.17       4.00
              12.12      12.10


                        --- Sub-Area Data ---

Name            Description                 Reach        Area(ac)     RCN     Tc
-------------------------------------------------------------------------------
Post-devel                                  PH1_Channe       7.78      79    .385
Pre-develo                                  Outlet           7.78      74    .29


                    Sub-Area Time of Concentration Details

 Sub-Area     Flow            Mannings's      End      Wetted                  Travel
 Identifier/  Length   Slope       n         Area     Perimeter   Velocity     Time
              (ft)    (ft/ft)              (sq ft)     (ft)      (ft/sec)     (hr)
-------------------------------------------------------------------------------------
Post-devel
  SHEET        100   0.0290     0.240                                         0.333
  SHALLOW      300   0.0133      1.21                                         0.045
  SHALLOW      105   0.0476      1.21                                         0.007
  CHANNEL      942   0.0265                                                   0.007

                                                    Time of Concentration      .385
                                                                           ========

Pre-develo
  SHEET        100   0.0390     0.130                                         0.181
  SHALLOW     1120   0.0315      1.21                                         0.109

                                                    Time of Concentration      .29
                                                                           ========
```

THE GEOTECHNICAL REPORT PREPARED BY CMT LABORATORIES, DATED JULY 9 2021 REPORTS AN INFILTRATION RATE OF 55 MINUTES PER INCH OR 1.09 INCHES PER HOUR (0.09083 FT/HR) BASED ON REPEATED TESTS UNTIL SUBSEQUENT READING WERE THE SAME.
WITH THE GIVEN POND GEOMETRY THE LOADING RATE OF STORAGE PER AVERAGE FOOT PRINT IS 7309 CF/ 2035 SF = 3.59 CF/SF
APPLYING THE MEASURED RATE TO THE POND LOADING, IT IS ASSUMED THE POND WILL DRAIN IN 3.59 / 0.0983 HRS= 40 HOURS.

STORM WATER DESIGN NARRATIVE:

- THE STORM WATER MITIGATION FOR QUANTITY IS TO ALLOW THE RUNOFF TO BE CONVEYED VIA OVERLAND FLOW. THE ROADSIDE SWALE TO THE PHASE RETENTION POND LOCATION.
- THE SCS RAINFALL - RUNOFF RELATIONSHIP WAS USED TO PREDICT THE VOLUME OF RUNOFF FOR BOTH THE PREDEVELOPMENT SCENARIO AND POST DEVELOPMENT SCENARIO. THE DIFFERENCE BETWEEN POST AND PRE-DEVELOPMENT RUNOFFS IS THE VOLUME REQUIRED. SEE ADJACENT RETENTION VOLUME CALCULATIONS
- THE DESIGN STORM IS THE 100 YEAR 24 HOUR STORM EVENT. PRECIPITATION DEPTH AND INTENSITIES WERE COLLECTED FROM THE NOAA ATLAS 14, VOLUME 1, VERSION 5 AT LATITUDE 40.6207° AND LONGITUDE: -112.4908° , WITH ELEVATION 4257 FT. SOIL DATA WAS ALSO COLLECTED AT THIS LOCATION FROM THE NRCS NATIONAL COOPERATIVE SOIL SURVEY TO UNDERSTAND THE HYDROLOGIC SOIL GROUP PROPERTIES
- THE NRCS WIN TR-55 SOFTWARE FOR SMALL WATERSHED WAS USED TO PREDICT THE PRE-DEVELOPMENT PEAK RUNOFF RATES FOR THE PHASE 1 CATCHMENT AND A TABLE OF THE PEAK RUNOFF RATES ARE SHOWN ADJACENT.
- IT WAS PREDICTED THAT THE PEAK RUNOFF OF THE PROPOSED DEVELOPMENT WILL BE AT A LOWER RATE THAN THE PREDEVELOPMENT RUNOFF FOR THE 100 YEAR DESIGN STORM.
- THE STORAGE VOLUME PROVIDED OF 7,309.50 CU. FT. IS MORE THAN THE REQUIRED VOLUME OF 5,880 CU FT. AND THEREFORE THE POST DEVELOPMENT RUNOFF VOLUME IS LESS THAN THE PRE-DEVELOPMENT RUNOFF VOLUME.

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No.	Revisions	By	Date

FINAL INFRASTRUCTURE

Designed By	Date Issued
BVB	2022.09.13
Project Number	Drawn By
20-45015	BVB

Project Name:
WILLOW FIELDS P.U.D.
GRANTSVILLE, UTAH
TOOELE COUNTY, UTAH

CIVIL PROJ-EX, INC
ENGINEERS, PLANNERS
96 QUIRK STREET
GRANTSVILLE, UTAH 84029

PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
STATE OF UTAH
2022.09.13

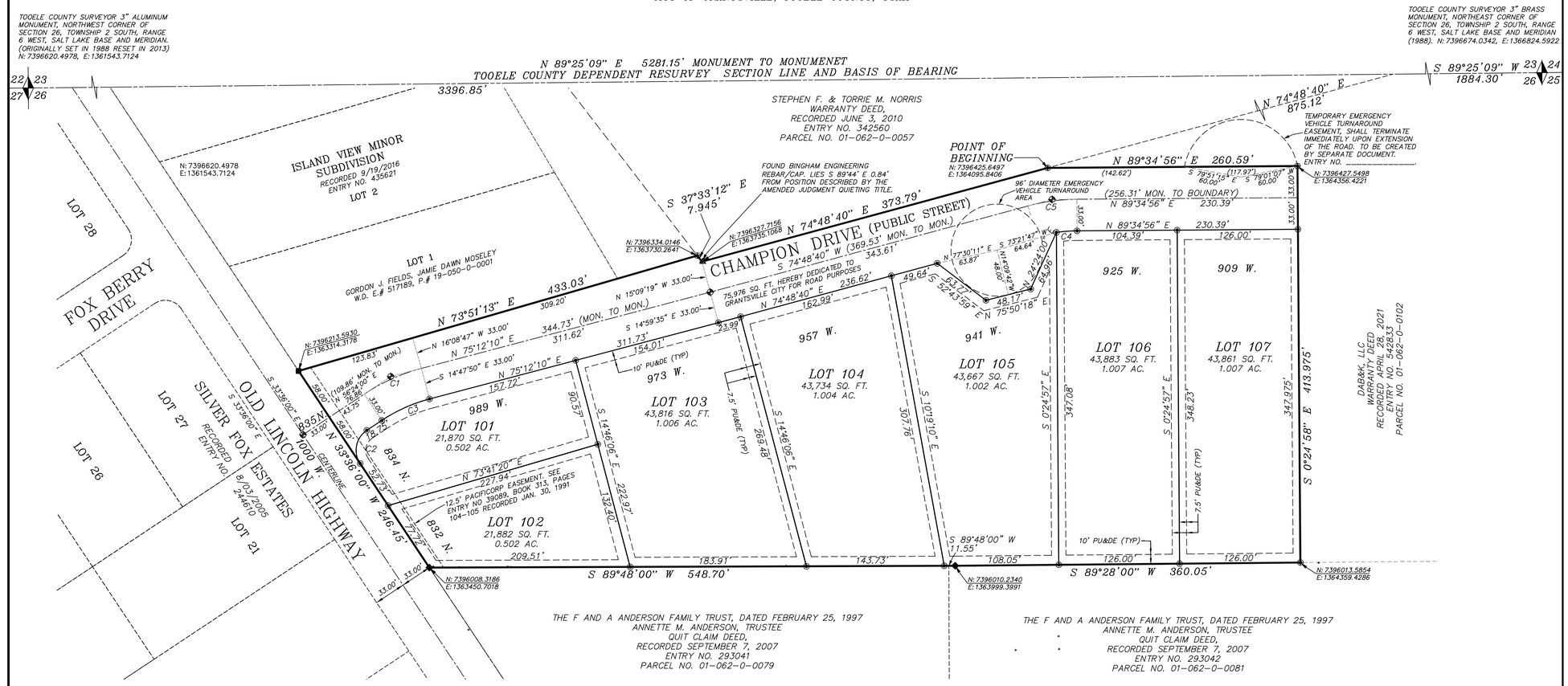
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FINAL PLAT

WILLOW FIELDS P.U.D.
PHASE 1

LOCATED IN THE NORTHEAST AND NORTHWEST QUARTERS OF SECTION 26
TOWNSHIP 2 SOUTH, RANGE 6 WEST, SALT LAKE BASE AND MERIDIAN
CITY OF GRANTSVILLE, TOOELE COUNTY, UTAH



THE F AND A ANDERSON FAMILY TRUST, DATED FEBRUARY 25, 1997
ANNETTE M. ANDERSON, TRUSTEE
QUIT CLAIM DEED,
RECORDED SEPTEMBER 7, 2007
ENTRY NO. 293041
PARCEL NO. 01-062-0-0079

THE F AND A ANDERSON FAMILY TRUST, DATED FEBRUARY 25, 1997
ANNETTE M. ANDERSON, TRUSTEE
QUIT CLAIM DEED,
RECORDED SEPTEMBER 7, 2007
ENTRY NO. 293042
PARCEL NO. 01-062-0-0081

LEGEND

- FOUND TOOELE COUNTY SURVEYOR BRASS MONUMENT
- FOUND BINGHAM ENGINEERING REBAR & CAP
- FOUND ENSIGN ENGINEERING REBAR & CAP
- FOUND HATHCOCK REBAR & CAP
- 5/8" X 24" REBAR WITH YELLOW PLASTIC CAP MARKED "HATHCOCK – L.S. 166346" TO BE SET.
- REQUIRED CENTERLINE MONUMENT TO BE SET.

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	DELTA ANG.	CHORD BRG.	CHORD LENGTH	TANGENT
C1	65.63'	200.00'	18°48'10"	N 65°48'05" E	65.34'	33.11'
C2	39.27'	25.00'	90°00'00"	N 11°24'00" E	35.35'	25.00'
C3	54.80'	167.00'	18°48'10"	N 65°48'05" E	54.56'	27.65'
C4	21.68'	167.00'	7°26'12"	N 85°51'50" E	21.66'	10.85'
C5	51.56'	200.00'	14°46'16"	N 82°11'48" E	51.42'	25.92'

NOTES:

1. 1. A 7.5' Public Utility & Drainage Easement is hereby created parallel with the side lot lines in this subdivision. A 10' Public Utility & Drainage Easement is hereby created parallel with the front and rear lot lines in this subdivision unless otherwise noted hereon.
2. Coordinate values shown hereon are based upon Tooele County Dependent Resurvey data.
3. 5/8"x24" rebar with yellow plastic caps have been or will be set as indicated by the legend and symbols shown hereon, prior to the recording of this plat.

PROFESSIONAL LAND SURVEYOR
NO. 166346
NOLAN C. HATHCOCK
8/27/2022
STATE OF UTAH

GRAPHIC SCALE

60 0 30 60 120 240

1 INCH = 60 FEET

NORTH

OWNER OF RECORD
DAB&K, LLC
57 S. MATTHEWS LANE
GRANTSVILLE, UTAH 84029

PLANNING COMMISSION
APPROVED THIS _____ DAY OF _____, 202__ BY THE GRANTSVILLE CITY PLANNING COMMISSION.
_____ CHAIR, GRANTSVILLE CITY PLANNINMG COMM.

SURVEYOR'S CERTIFICATE

I, Nolan C. Hathcock, do hereby certify that I am a Professional Land Surveyor, and that I hold License No. 166346, in accordance with Title 58, Chapter 22, of the Professional Engineers and Land Surveyors Act; I further certify that by authority of the owners I have completed a survey of the property described on this plat in accordance with Section 17–23–17, have verified all measurements, divided said property into lots, streets, parcels and open space, together with easements, hereafter to be known as

WILLOW FIELDS P.U.D.
PHASE 1

and that the same has been correctly surveyed and has been or will be monumented on the ground as shown on this plat.

BOUNDARY DESCRIPTION

A parcel of land located in the Northeast and Northwest Quarters of Section 26, Township 2 South, Range 6 West, Salt Lake Base and Meridian, described by metes and bounds as follows:
Beginning at a point which lies South 89°25'09" West 1884.30 feet along the section line and South 74°48'40" West 875.12 feet from the Tooele County Surveyor monument representing the Northeast Corner Section 26, Township 2 South, Range 6 West, Salt Lake Base and Meridian (Basis of bearing for this description is South 89°25'09" West 5281.15 feet along the section line defined by Tooele County Surveyor monuments representing the Northeast and Northwest Corners of said Section 26.);
thence North 89°34'56" East 260.59 feet;
thence South 0°24'58" East 413.975 feet to intersect that boundary established by Judgment, Case No. 030301376, recorded May 17, 2007 as Entry No. 284763 in the office of the Tooele County Recorder;
thence along said boundary the following two (2) courses:
(1) South 89°28'00" West 360.05 feet;
(2) South 89°48'00" West 548.70 feet to intersect the easterly right–of–way line of the Old Lincoln Highway being 66.00 feet perpendicularly distant easterly and parallel with the westerly right–of–way line of said Old Lincoln Highway, established by SILVER FOX ESTATES SUBDIVISION, the recorded plat of which may be found as Entry No. 244610 in the office of said Recorder;
thence along said easterly right–of–way line, North 33°36'00" West 246.45 feet to the southwest corner of ISLAND VIEW MINOR SUBDIVISION, recorded September 19, 2016 as Entry No. 435621 in the office of said Recorder;
thence along the southerly boundary of said ISLAND VIEW MINOR SUBDIVISION, and beyond (the bearings of said subdivision have been rotated 0°00'57" clockwise to the bearing base of this description), North 73°51'13" East 433.03 feet to intersect that boundary established by Amended Judgment Quieting Title, Case No. 0003009970T, recorded January 9, 2001 as Entry No. 157511 in Book 655 at Pages 420–421 in the office of said Recorder;
thence along said boundary the following two (2) courses:
(1) South 37°33'12" East 7.945 feet;
(2) North 74°48'40" East 373.79 feet to the Point of Beginning.
The above described parcel of land contains approximately 338,689 square feet or 7.775 acres, divided into seven (7) lots and a public street.

OWNER'S DEDICATION AND CONSENT TO RECORD

Know all men by these presents that the undersigned is the owner of the hereon described tract of land and hereby causes the same to be divided into lots and streets, together with easements as set forth, hereafter to be known as:

WILLOW FIELDS P.U.D.
PHASE 1

and do hereby dedicate for the perpetual use of the public all areas shown on this plat as intended for public use. The undersigned owner also hereby conveys to Grantsville City and to any and all public utility companies providing service to the hereon described tract a perpetual, non–exclusive easement over the public utility & drainage easements shown on this plat, the same to be used for drainage and installation, maintenance and operation of public utility service lines and facilities.

In witness whereof said owner have has hereunto set his hand this_____ day of _____ A.D., 202___.

DAB&K, LLC

_____,
BY: DUSTIN K. HALL
ITS: AUTHORIZED AGENT

ACKNOWLEDGMENT

STATE OF UTAH
County of_____ } s.s.

On the _____ day of _____, A.D. 202__, personally appeared before me, the undersigned Notary Public, in and for said County of _____ in the State of Utah, Dustin K. Hall, who being by me duly sworn, did say, that he is the Authorized Agent of DAB&K, LLC, a Utah limited liability company and said Dustin K. Hall acknowledged to me that he executed the within and forgoing Owner's Dedication, with authority ,and in behalf of said DAB&K, LLC for the uses and purposes therein stated.

MY COMMISSION EXPIRES: _____
NOTARY PUBLIC: _____
RESIDING IN: _____

FINAL PLAT
WILLOW FIELDS P.U.D.
PHASE 1
LOCATED IN THE NORTHEAST AND NORTHWEST QUARTERS OF SECTION 26, TOWNSHIP 2 SOUTH, RANGE 6 WEST, SALT LAKE BASE AND MERIDIAN
CITY OF GRANTSVILLE, TOOELE COUNTY, UTAH
Prepared: June 3, 2022

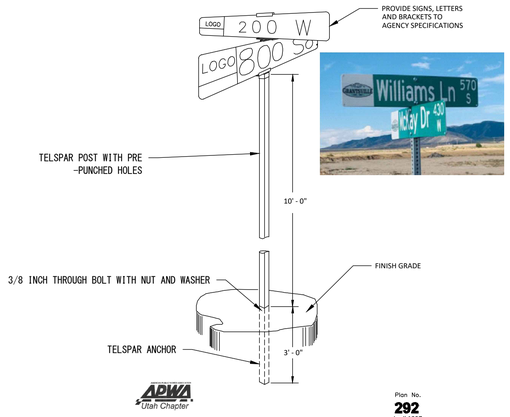
PREPARED BY:
NOLAN C. HATHCOCK
PROFESSIONAL LAND SURVEYOR
UTAH LICENSE NO. 166346
9592 STORNOWAY CIRCLE
SOUTH JORDAN, UTAH 84009
PHONE: 801–557–5398

GRANTSVILLE CITY ENGINEER	GRANTSVILLE CITY PUBLIC WORKS	GRANTSVILLE CITY ATTORNEY	TOOELE COUNTY TREASURER	GRANTSVILLE CITY FIRE MARSHALL	TOOELE COUNTY SURVEY DEPT.	GRANTSVILLE CITY MAYOR/CITY COUNCIL	RECORDED #
APPROVED THIS _____ DAY OF _____, 202__ BY THE GRANTSVILLE CITY ENGINEER.	APPROVED THIS _____ DAY OF _____, 202__ BY THE GRANTSVILLE CITY PUBLIC WORKS DIRECTOR.	APPROVED THIS _____ DAY OF _____, 202__ BY THE GRANTSVILLE CITY ATTORNEY.	APPROVED THIS _____ DAY OF _____, 202__ BY THE TOOELE COUNTY TREASURER	APPROVED THIS _____ DAY OF _____, 202__ BY THE GRANTSVILLE CITY FIRE MARSHALL.	APPROVED THIS 1 DAY OF September, 202 2 BY THE TOOELE COUNTY SURVEY DEPARTMENT. ROS FILE NO. 2021–0063–01.	PRESENTED TO THE GRANTSVILLE CITY COUNCIL THIS _____ DAY OF _____, 202__, AT WHICH TIME IT WAS ACCEPTED AND APPROVED.	STATE OF UTAH, COUNTY OF TOOELE, RECORDED AND FILED AT THE REQUEST OF: _____
_____ CITY ENGINEER OR DESIGNEE	_____ PUBLIC WORKS DIRECTOR OR DESIGNEE	_____ GRANTSVILLE CITY ATTORNEY	_____ TOOELE COUNTY TREASURER	_____ GRANTSVILLE CITY FIRE MARSHALL	_____ DIRECTOR, TOOELE COUNTY SURVEY DEPT.	_____ MAYOR ATTEST: CITY RECORDER	DATE: _____ TIME _____ FEE $ _____ TOOELE COUNTY RECORDER

CIVIL TRANSPORTATION PHASE 1

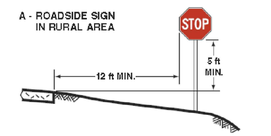
Street name signpost

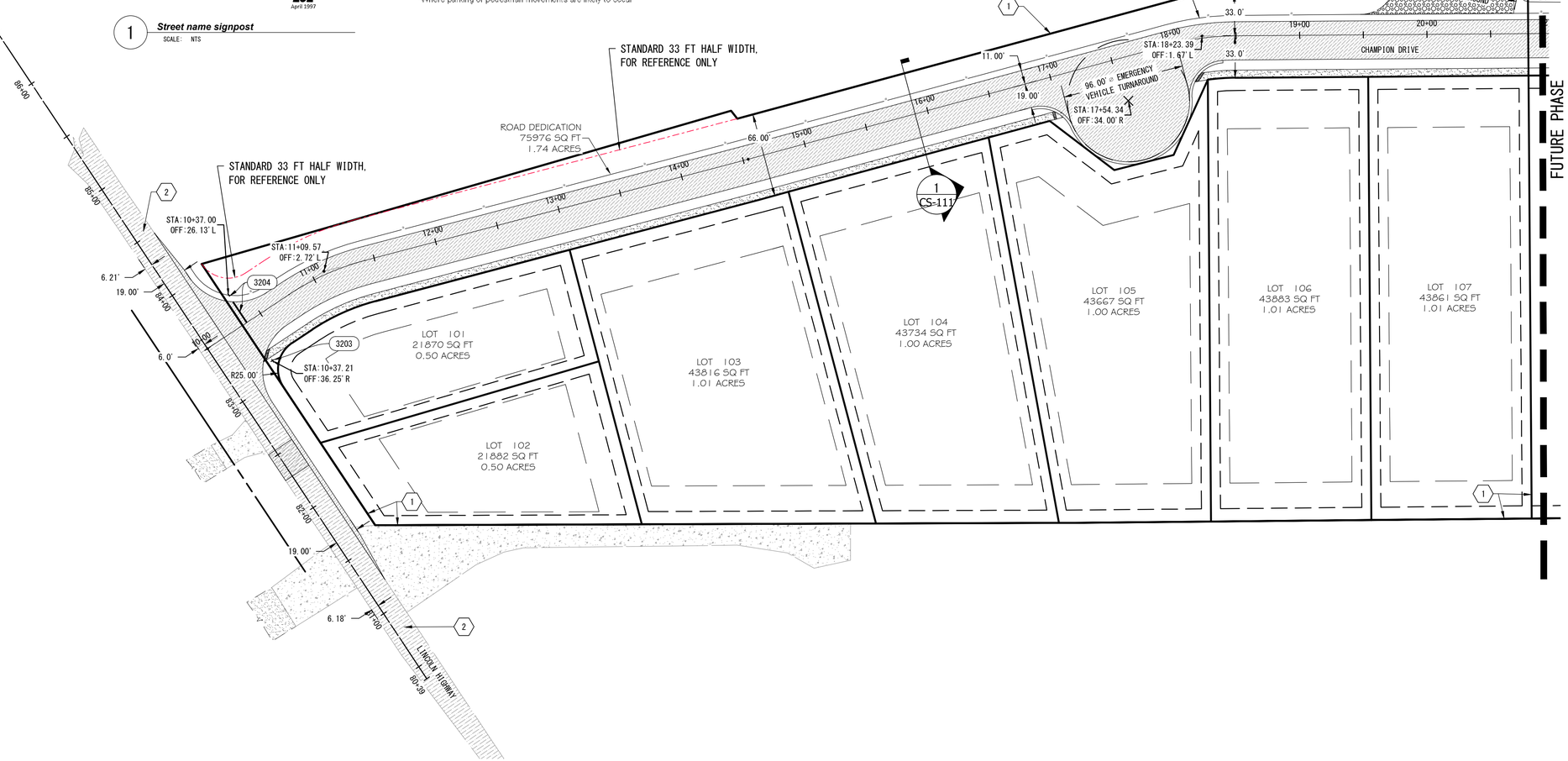
1. GENERAL
   A. Get ENGINEER's approval of sign format and installation.
2. PRODUCTS
   A. Bolts, Nuts, Washers, Accessories: Stainless or galvanized steel, APWA Section 05 05 23.
3. EXECUTION
   A. Install sign posts on corner selected by ENGINEER.
   B. Install the edge of the sign 2 feet from the vertical extension of the back of curb as near as possible to the approach curb P.C. (point of curvature).



1 ***Street name signpost***
SCALE: NTS

HEIGHTS AND LATERAL LOCATIONS OF SIGN INSTALLATIONS	
ROADSIDE SIGN IN RURAL AREA	FIG. A
ROADSIDE SIGN IN BUSINESS, COMMERCIAL, OR RESIDENTIAL AREA	FIG. C





PAY ITEMS

####	
3203	POST MOUNTED STREET SIGNS, COORDINATE LOGO WITH GRANTSVILLE CITY PUBLIC WORKS
3204	POST MOUNTED STOP SIGN, MUTCD R1-1 WITH "CROSS TRAFFIC DOES NOT STOP" MUTCD W4-4P SIGN, AND 12-INCH WIDE PAINTED STOP BAR

CONSTRUCTION NOTES

#	
1.	PROPERTY BOUNDARY
2.	EXISTING ASPHALT PAVEMENT

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FINAL INFRASTRUCTURE
Designed By: BVB
Date Issued: 2022.09.13
Project Number: 20-45015
Drawn By: BVB

Project Name:
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GRANTSVILLE,
TOOELE COUNTY, UTAH

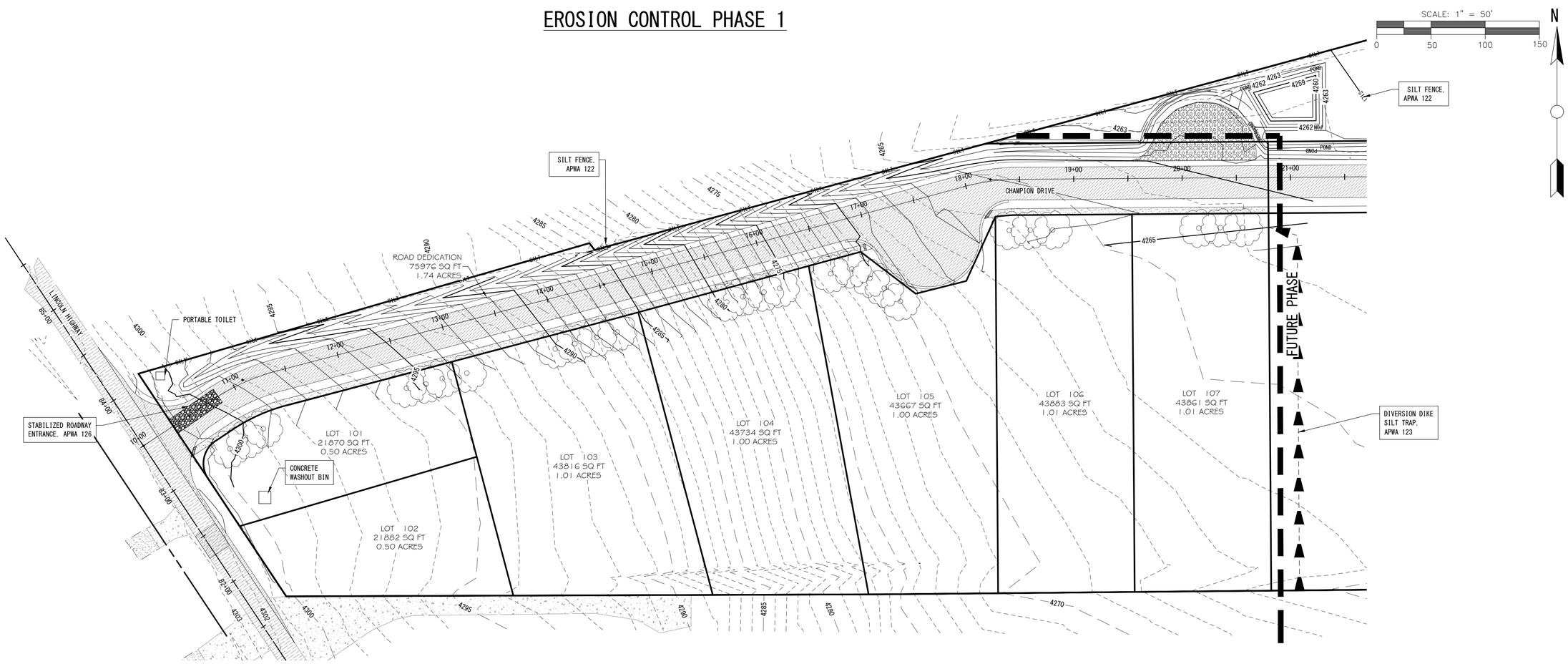
CIVIL PROJ-EX, INC
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PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
STATE OF UTAH
2022.09.13

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Sheet Name:
CT-111

EROSION CONTROL PHASE 1



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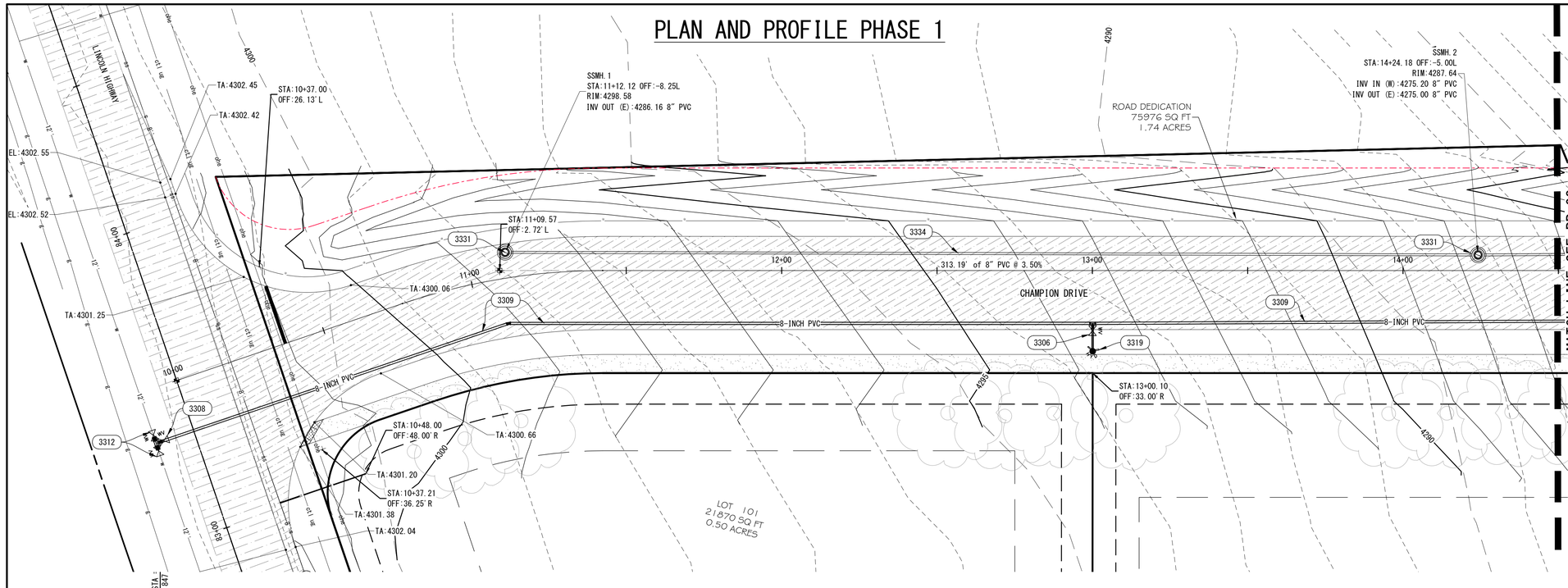
PROFESSIONAL ENGINEER
7224167
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Barry V. Bunderson
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STATE OF UTAH

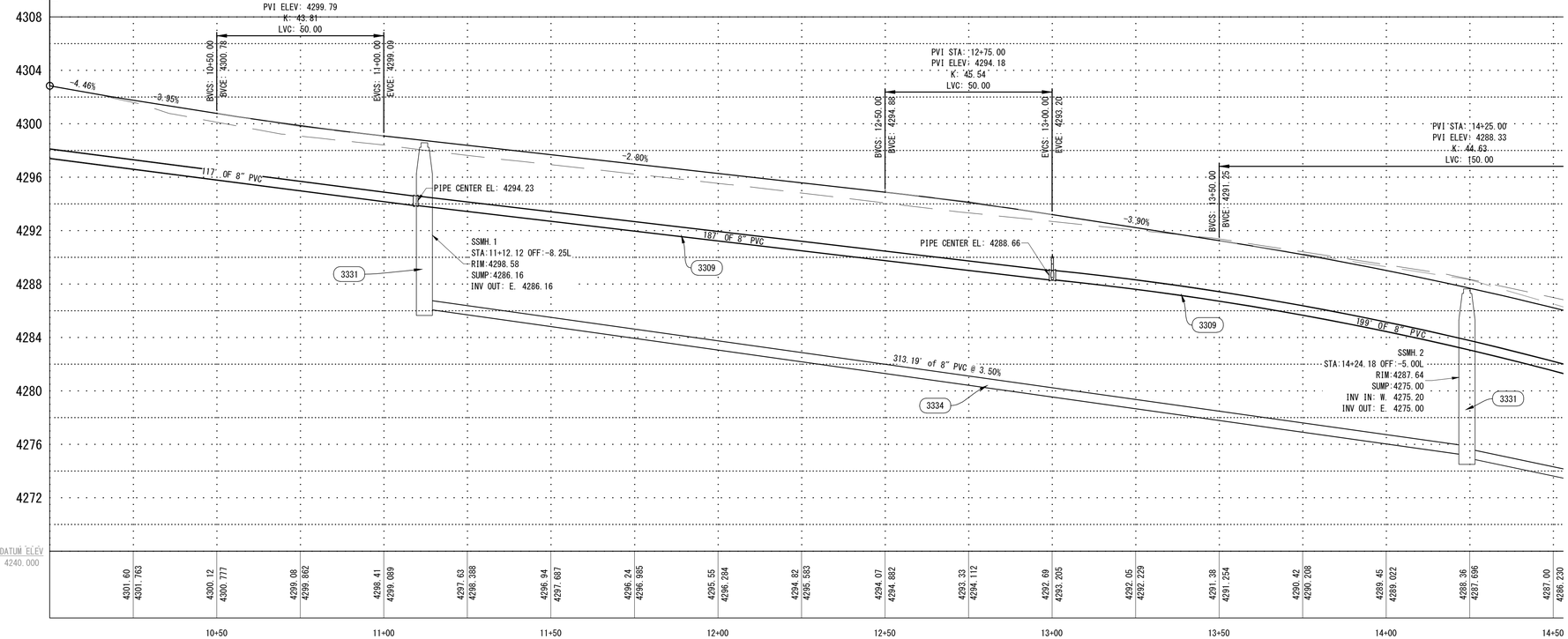
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PLAN AND PROFILE PHASE 1





PAY ITEMS

(####)	
0241	REMOVE EXISTING IRRIGATION PIPE
3281	SECONDARY WATER SERVICE, 1 INCH
3281.5	SECONDARY WATER PIPE, 1.5-INCH POLY,
3301	POTABALE WATER SERVICE, 1-INCH, CITY STD
3306	GATE VALVE, 6-INCH, AWWA C509
3308	GATE VALVE, 8-INCH, AWWA C509
3309	BLUE PVC PIPE, 8-INCH, AWWA C900 SDR 18 WATER MAIN, SEE CITY WATER MAIN TRENCH
3312	GATE VALVE, 12-INCH, AWWA C509
3319	FIRE HYDRANT ASSEMBLY, CITY STD
3320	2-INCH BLOW OFF ASSEMBLY, CITY STD
3331	SANITARY SEWER MANHOLE, 4-FT DIAMETER, COMPLETE, APWA PLAN 402, 411, 413
3332	SANITARY SEWER MANHOLE, 5-FT DIAMETER, COMPLETE, APWA PLAN 402, 411, 413
3333	PVC SDR 35 SANITARY SEWER LATERAL, APWA PLAN 431
3334	PVC SANITARY SEWER PIPE, 8-INCH, SDR 35, APWA PLAN 381 & 382
3335	PVC SANITARY SEWER PIPE, 12-INCH, SDR 35, APWA PLAN 381 & 382
3347	EXCAVATED STORM WATER POND
3350	HDPE FLARED END SECTION WITH TRASH GUARD AND 1 C.Y. OF 6" RIP RAP
3371	PVC CONDUIT, 3-INCH

CONSTRUCTION NOTES

(#)

1. EXISTING SEWER MAIN
2. EXISTING IRRIGATION PIPE
3. EXISTING WATER MAIN
4. EXISTING FIRE HYDRANT
5. EXISTING GAS, DOMINION ENERGY
6. EXISTING ELECTRIC COORDINATE WITH ROCKY MOUNTAIN POWER
7. EXISTING COMMUNICATION, CENTRYLINK
8. EXISTING UTILITY POLE
9. EXISTING SANITARY SEWER MANHOLE
10. CONCEPTUAL GAS LAYOUT

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Designed By	Date Issued
BVB	2022.09.13
Project Number	Drawn By
20-45015	BVB

Project Name:
WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY, UTAH

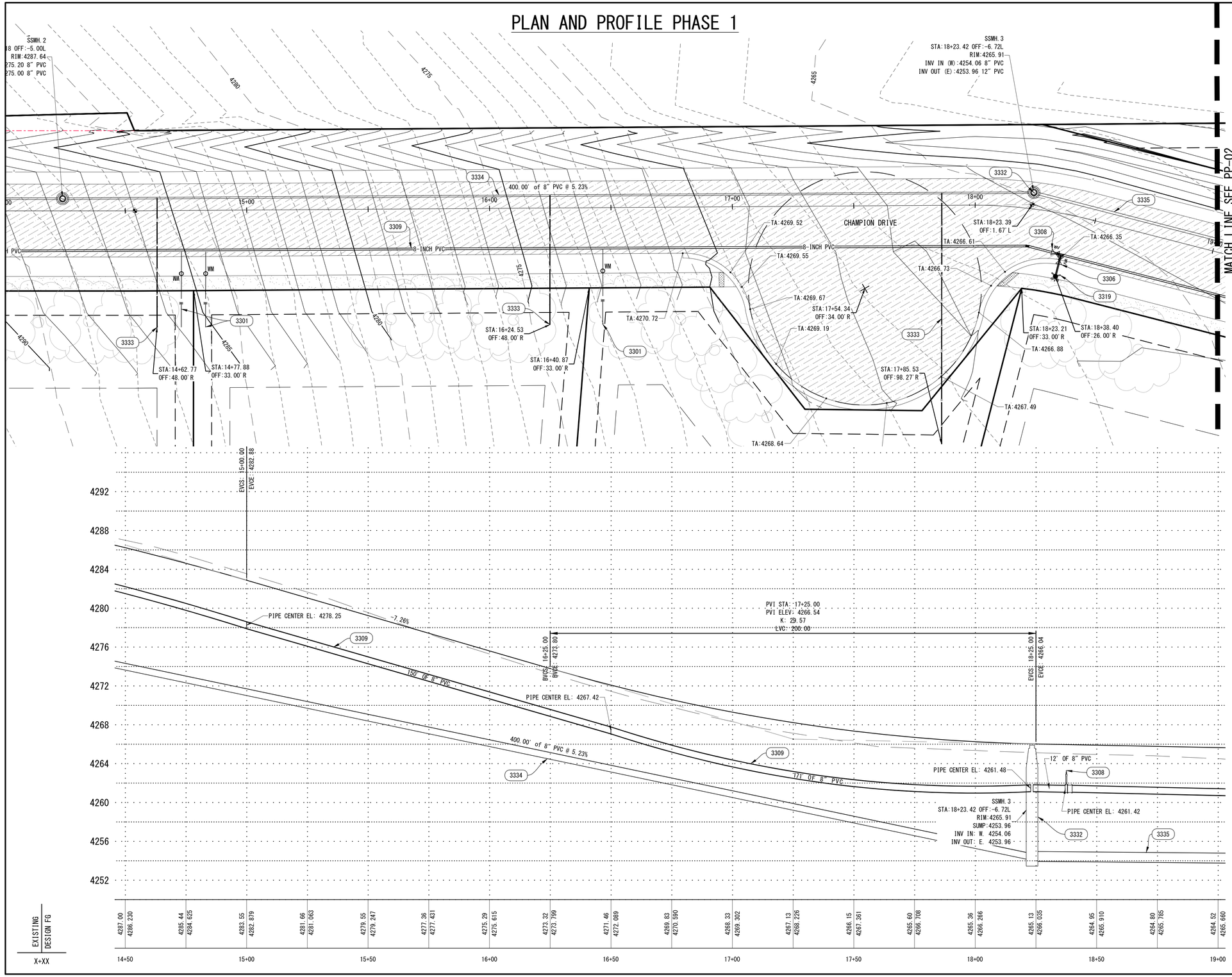
CIVIL PROJ-EX, INC
ENGINEERS, PLANNERS
96 QUIRK STREET
GRANTSVILLE, UTAH 84029

PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
Barry V. Bunderson
2022.09.13
STATE OF UTAH

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Sheet Name:
PP-01

PLAN AND PROFILE PHASE 1



SCALE: 1" = 20'

0 20 40 60

N

PAY ITEMS

(####)

0241	REMOVE EXISTING IRRIGATION PIPE
3281	SECONDARY WATER SERVICE, 1 INCH
3281.5	SECONDARY WATER PIPE, 1.5-INCH POLY,
3301	POTABALE WATER SERVICE, 1-INCH, CITY STD
3306	GATE VALVE, 6-INCH, AWWA C509
3308	GATE VALVE, 8-INCH, AWWA C509
3309	BLUE PVC PIPE, 8-INCH, AWWA C900 SDR 18 WATER MAIN, SEE CITY WATER MAIN TRENCH
3312	GATE VALVE, 12-INCH, AWWA C509
3319	FIRE HYDRANT ASSEMBLY, CITY STD
3320	2-INCH BLOW OFF ASSEMBLY, CITY STD
3331	SANITARY SEWER MANHOLE, 4-FT DIAMETER, COMPLETE, APWA PLAN 402, 411, 413
3332	SANITARY SEWER MANHOLE, 5-FT DIAMETER, COMPLETE, APWA PLAN 402, 411, 413
3333	PVC SDR 35 SANITARY SEWER LATERAL, APWA PLAN 431
3334	PVC SANITARY SEWER PIPE, 8-INCH, SDR 35, APWA PLAN 381 & 382
3335	PVC SANITARY SEWER PIPE, 12-INCH, SDR 35, APWA PLAN 381 & 382
3347	EXCAVATED STORM WATER POND
3350	HDPE FLARED END SECTION WITH TRASH GUARD AND 1 C.Y. OF 6" RIP RAP
3371	PVC CONDUIT, 3-INCH

CONSTRUCTION NOTES

(#)

1. EXISTING SEWER MAIN
2. EXISTING IRRIGATION PIPE
3. EXISTING WATER MAIN
4. EXISTING FIRE HYDRANT
5. EXISTING GAS, DOMINION ENERGY
6. EXISTING ELECTRIC COORDINATE WITH ROCKY MOUNTAIN POWER
7. EXISTING COMMUNICATION, CENTRYLINK
8. EXISTING UTILITY POLE
9. EXISTING SANITARY SEWER MANHOLE
10. CONCEPTUAL GAS LAYOUT

811

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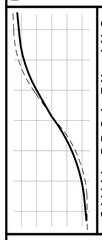
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No.	Revisions	By	Date

FINAL INFRASTRUCTURE

Designed By: BVB
Date Issued: 2022.09.13
Project Number: 20-45015
Drawn By: BVB

Project Name:
WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY, UTAH



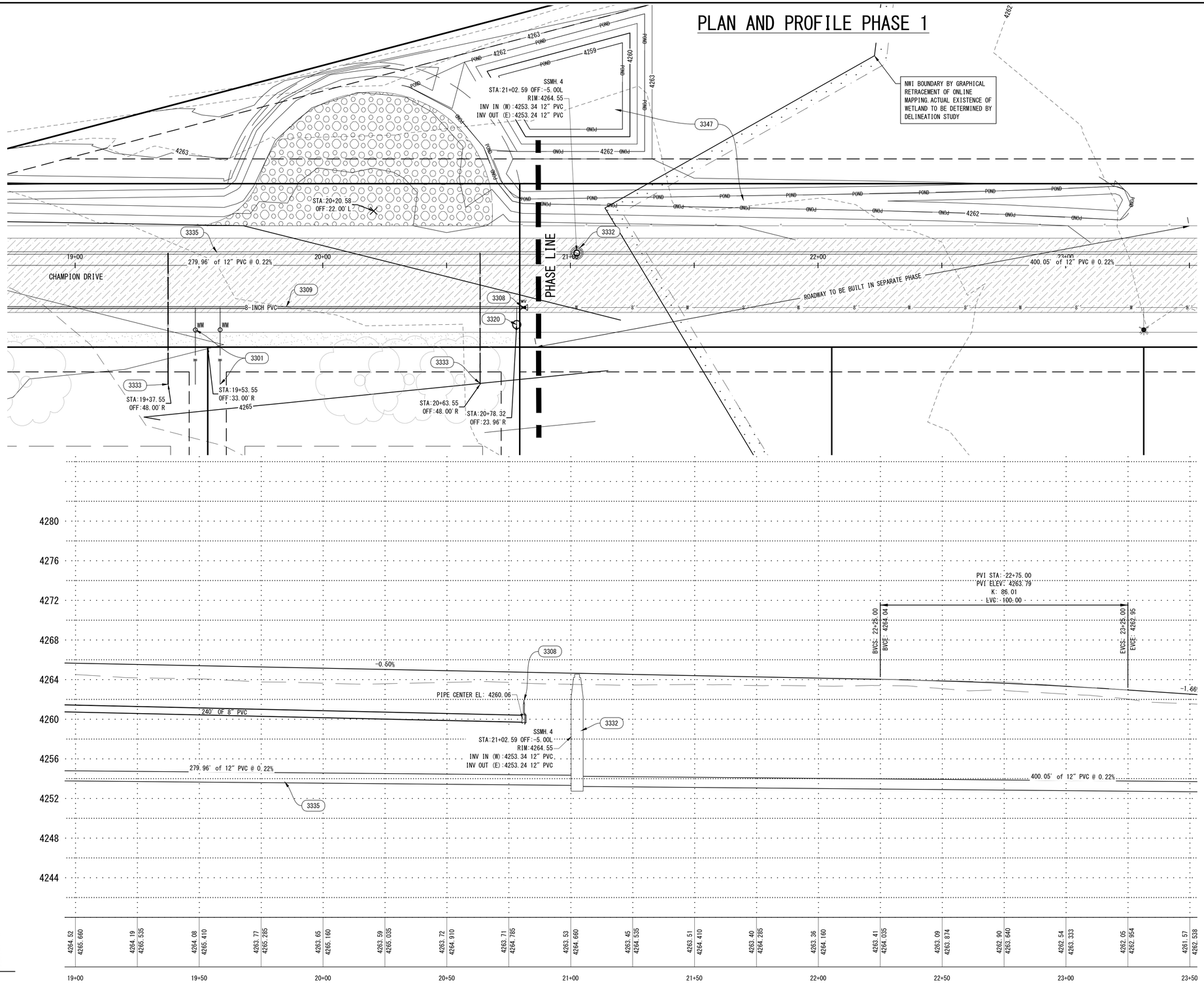
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7224167
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Sheet Name:
PP-02

PLAN AND PROFILE PHASE 1



PAY ITEMS

(####)

0241	REMOVE EXISTING IRRIGATION PIPE
3281	SECONDARY WATER SERVICE, 1 INCH
3281.5	SECONDARY WATER PIPE, 1.5-INCH POLY,
3301	POTABALE WATER SERVICE, 1-INCH, CITY STD
3306	GATE VALVE, 6-INCH, AWWA C509
3308	GATE VALVE, 8-INCH, AWWA C509
3309	BLUE PVC PIPE, 8-INCH, AWWA C900 SDR 18 WATER MAIN, SEE CITY WATER MAIN TRENCH
3312	GATE VALVE, 12-INCH, AWWA C509
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3332	SANITARY SEWER MANHOLE, 5-FT DIAMETER, COMPLETE, APWA PLAN 402, 411, 413
3333	PVC SDR 35 SANITARY SEWER LATERAL, APWA PLAN 431
3334	PVC SANITARY SEWER PIPE, 8-INCH, SDR 35, APWA PLAN 381 & 382
3335	PVC SANITARY SEWER PIPE, 12-INCH, SDR 35, APWA PLAN 381 & 382
3347	EXCAVATED STORM WATER POND
3350	HDPE FLARED END SECTION WITH TRASH GUARD AND 1 C.Y. OF 6" RIP RAP
3371	PVC CONDUIT, 3-INCH

CONSTRUCTION NOTES

(#)

1. EXISTING SEWER MAIN
2. EXISTING IRRIGATION PIPE
3. EXISTING WATER MAIN
4. EXISTING FIRE HYDRANT
5. EXISTING GAS, DOMINION ENERGY
6. EXISTING ELECTRIC COORDINATE WITH ROCKY MOUNTAIN POWER
7. EXISTING COMMUNICATION, CENTRYLINK
8. EXISTING UTILITY POLE
9. EXISTING SANITARY SEWER MANHOLE
10. CONCEPTUAL GAS LAYOUT

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No.	Revisions	By	Date

FINAL INFRASTRUCTURE

Designed By: BVB
Date Issued: 2022.09.13
Project Number: 20-45015
Drawn By: BVB

Project Name:
WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY, UTAH

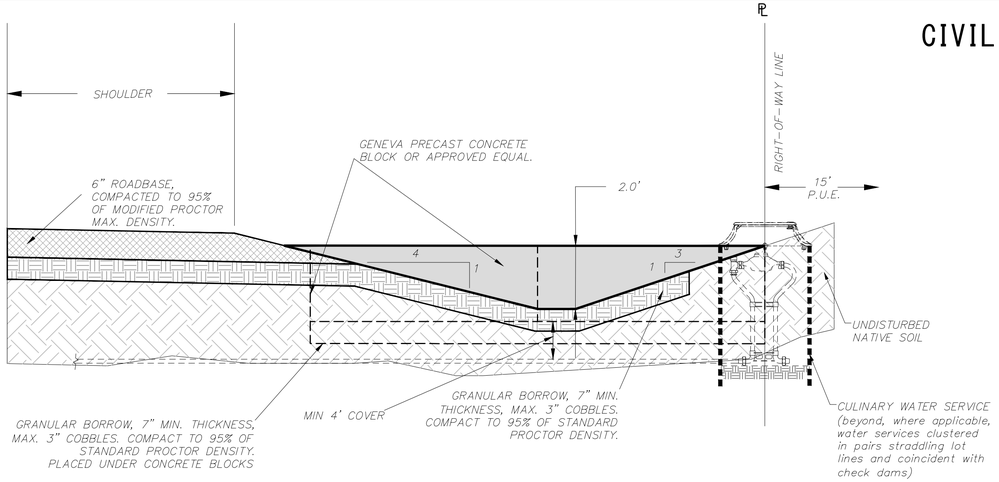
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GRANTSVILLE, UTAH 84029

PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
STATE OF UTAH
2022.09.13

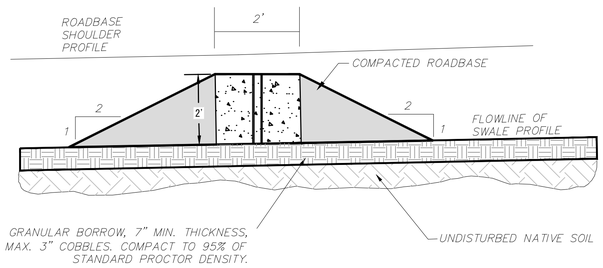
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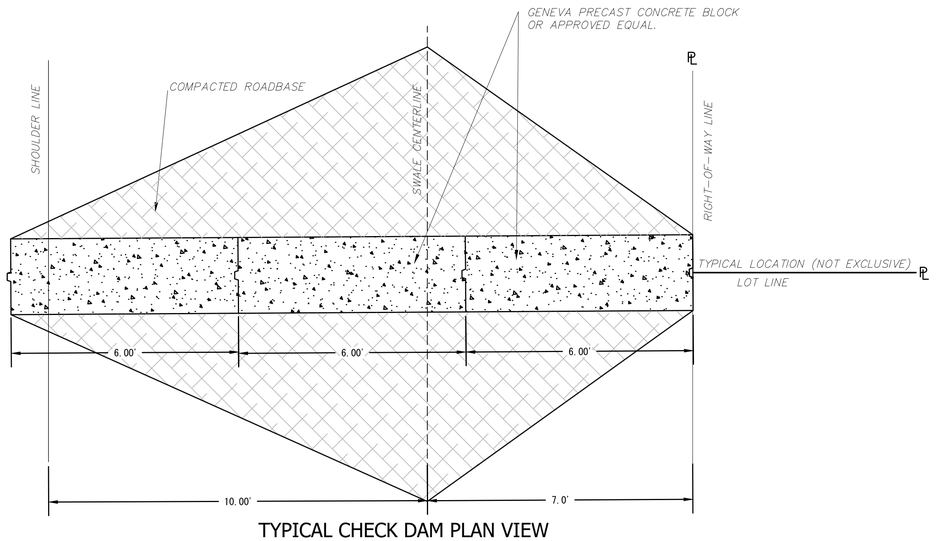
CIVIL SECTIONS



TYPICAL CHECK DAM PROFILE



TYPICAL CHECK DAM CROSS-SECTION

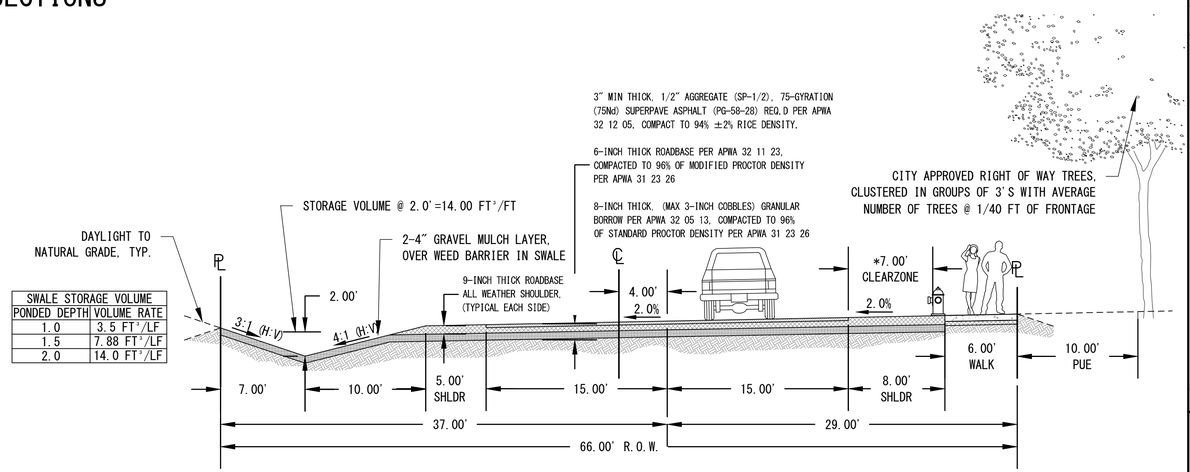


TYPICAL CHECK DAM PLAN VIEW

5 CHECK DAM

Scale: NTS

SWALE STORAGE VOLUME	
PONDED DEPTH	VOLUME RATE
1.0	3.5 FT³/LF
1.5	7.88 FT³/LF
2.0	14.0 FT³/LF



* COMPLIES WITH ROADSIDE DESIGN GUIDE TABLE 3.1 FOR DESIGN SPEED LESS THAN 40 MPH AND ADT UNDER 750

1 PROPOSED WILLOW FIELDS ROADWAY

SCALE: NTS

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FINAL INFRASTRUCTURE

Designed By BVB

Date Issued 2022.09.13

Project Number 20-45015

Drawn By BVB

Project Name:

WILLOW FIELDS P.U.D.
GRANTSVILLE, TOOELE COUNTY, UTAH

CIVIL PROJ-EX, INC
ENGINEERS - PLANNERS
96 QUIRK STREET
GRANTSVILLE, UTAH 84029

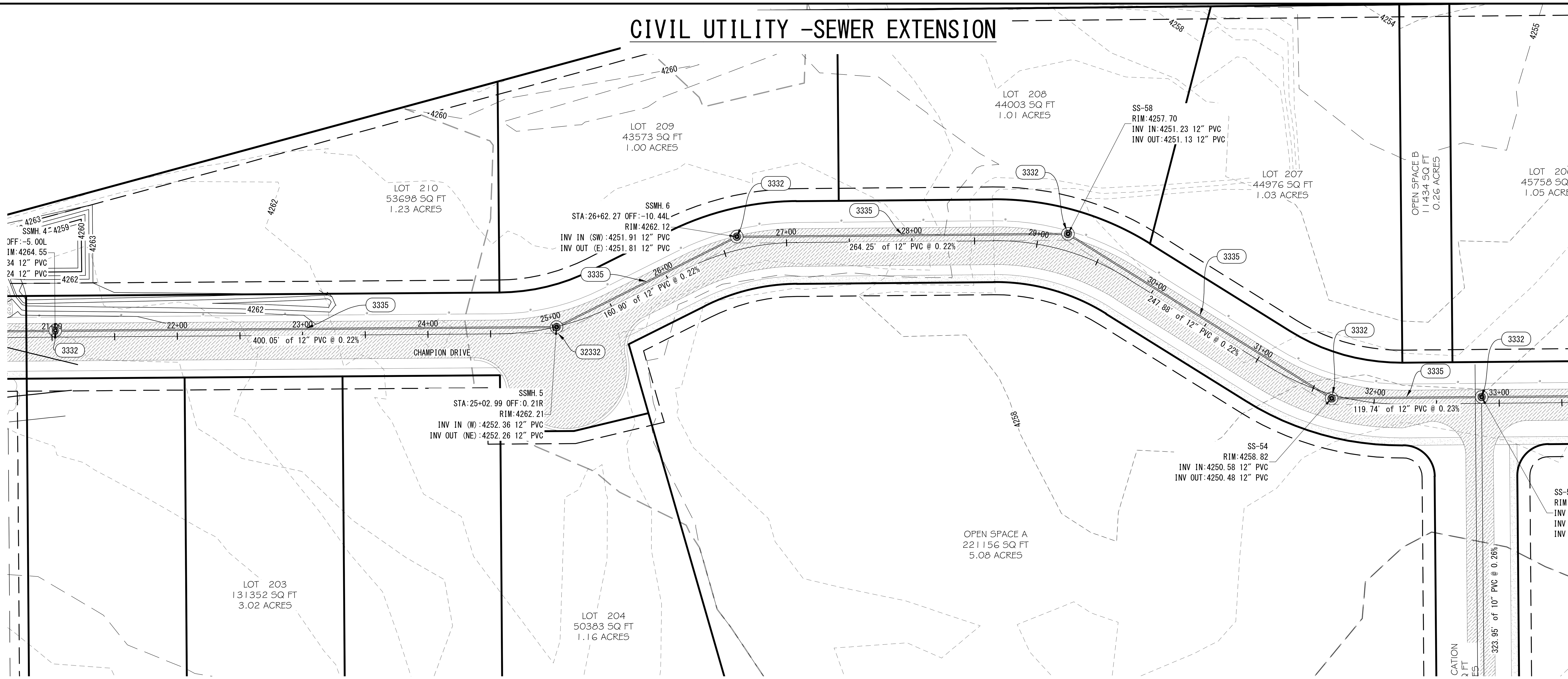
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7224167
BARRY V. BUNDERSON
2022.09.13
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Sheet Name:

C-301

CIVIL UTILITY -SEWER EXTENSION



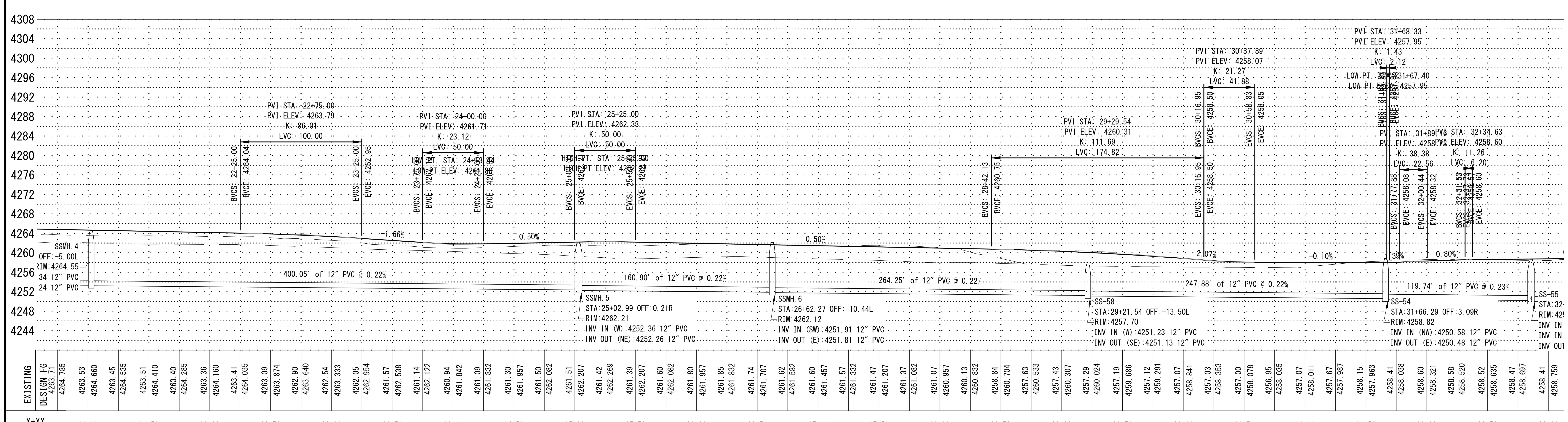
SCALE: 1" = 50'

0 50 100 150

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SCOPE OF WORK

- 3331 SANITARY SEWER MANHOLE, 4-FT DIAMETER, COMPLETE, APWA PLAN 402, 411, 413
- 3332 SANITARY SEWER MANHOLE, 5-FT DIAMETER, COMPLETE, APWA PLAN 402, 411, 413
- 3334 PVC SANITARY SEWER PIPE, 8-INCH, SDR 35, APWA PLAN 381 & 382
- 3335 PVC SANITARY SEWER PIPE, 12-INCH, SDR 35, APWA PLAN 381 & 382



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No.	Revisions	By	Date

FINAL INFRASTRUCTURE

Designed By: BVB	Date Issued: 2022.09.13
Project Number: 20-45015	Drawn By: BVB

Project Name:
WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY, UTAH

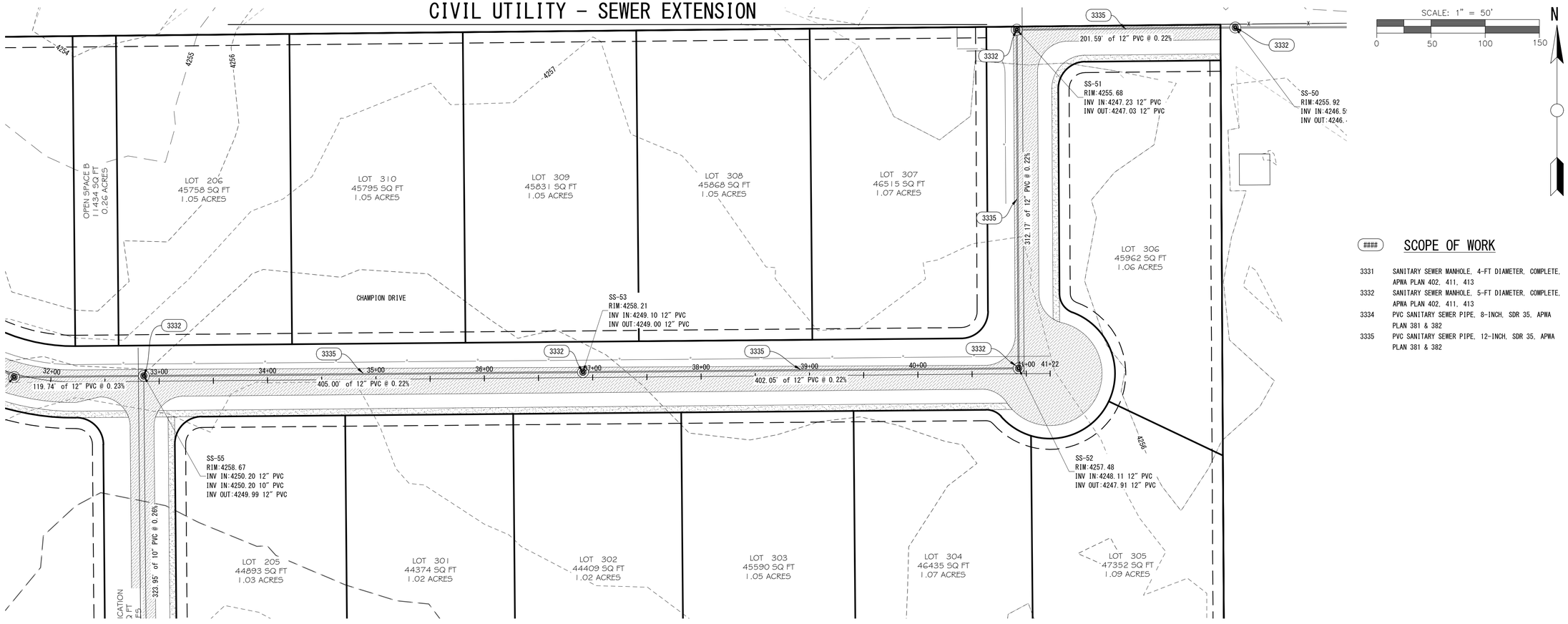
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GRANTSVILLE, UTAH 84029

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7224167
BARRY V. BUNDERSON
2022.09.13
STATE OF UTAH

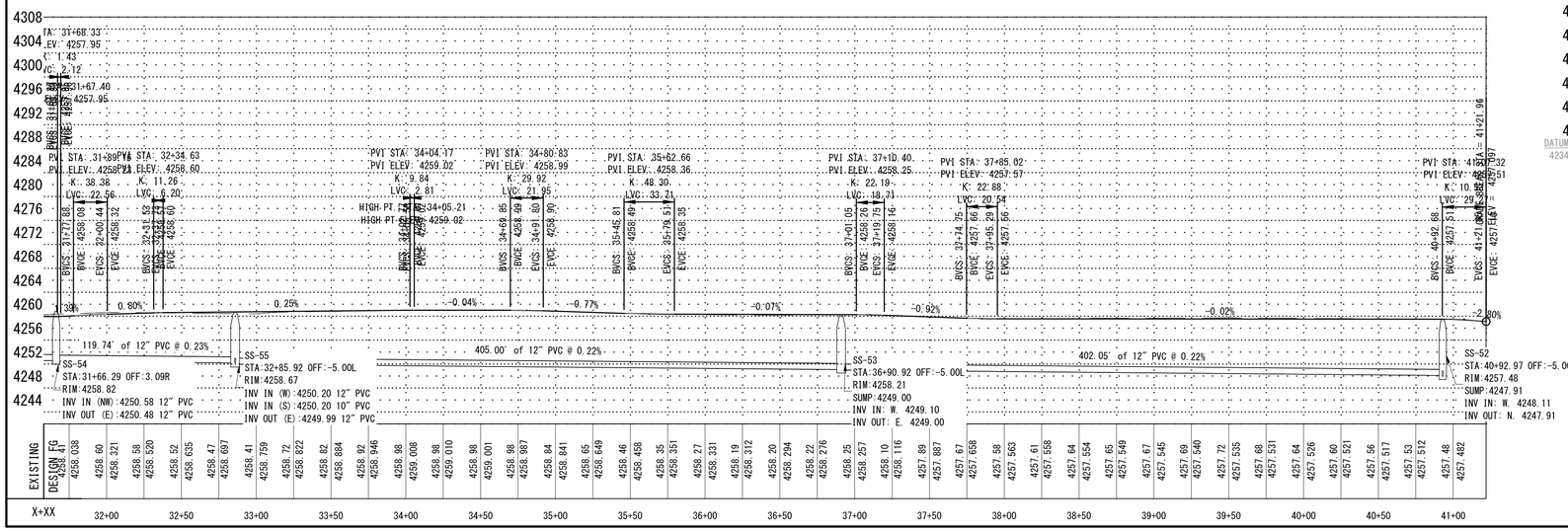
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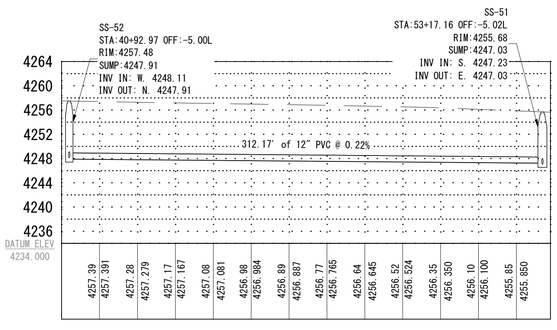
Sheet Name:
CU-101

CIVIL UTILITY - SEWER EXTENSION



ROAD PROFILE IN THIS AREA IS NOT COMPLETE AT THIS TIME





SCOPE OF WORK

####

3331	SANITARY SEWER MANHOLE, 4-FT DIAMETER, COMPLETE, APWA PLAN 402, 411, 413
3332	SANITARY SEWER MANHOLE, 5-FT DIAMETER, COMPLETE, APWA PLAN 402, 411, 413
3334	PVC SANITARY SEWER PIPE, 8-INCH, SDR 35, APWA PLAN 381 & 382
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No. | Revisions | By | Date

FINAL INFRASTRUCTURE
Designed By: BVB
Date Issued: 2022.09.13
Project Number: 20-45015
Drawn By: BVB

Project Name:
WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY, UTAH

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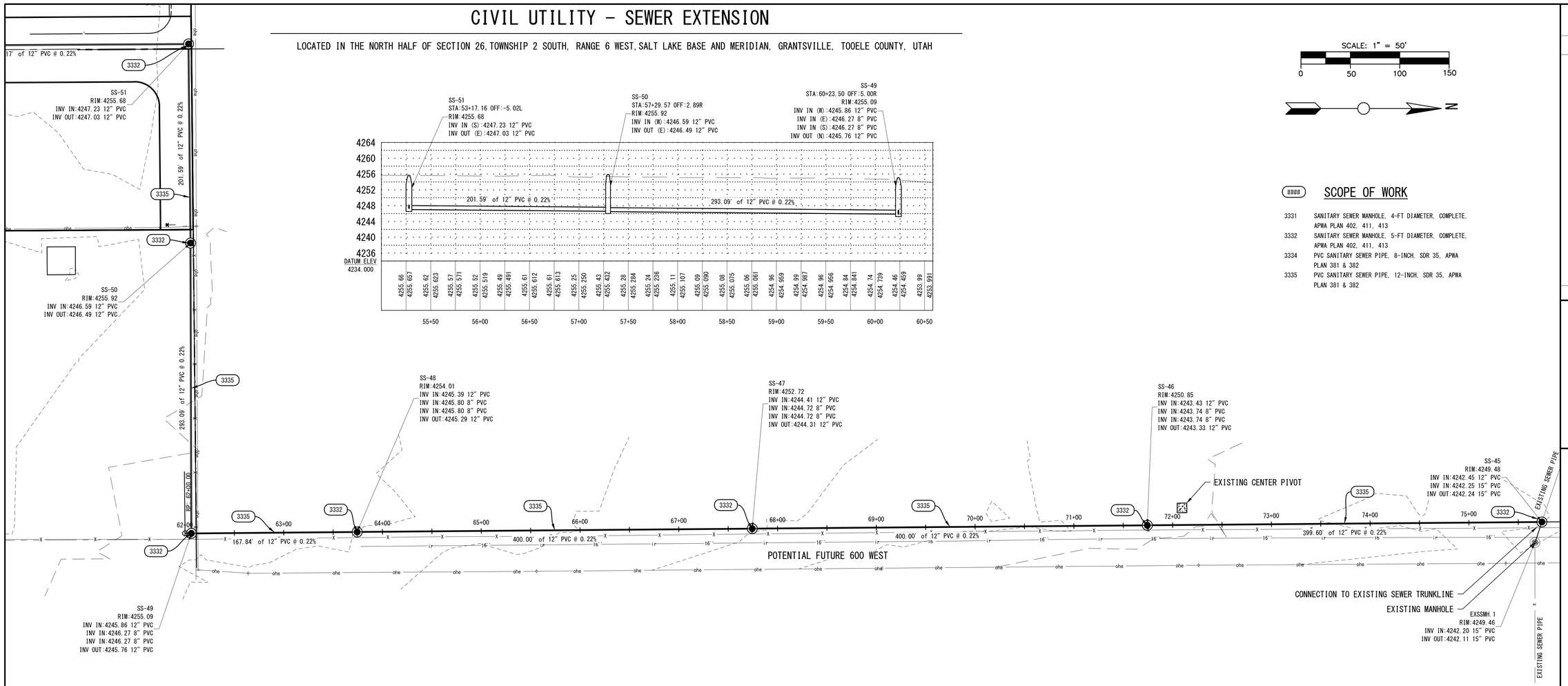
PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
Barry V. Bunderson
2022.09.13
STATE OF UTAH

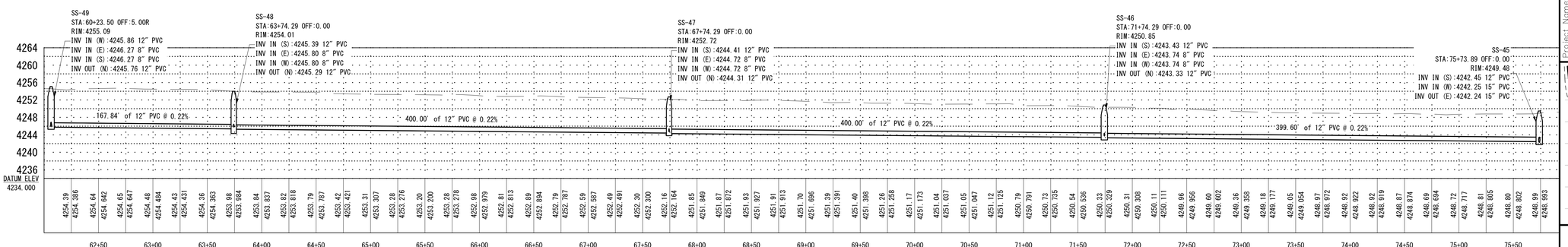
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Sheet Name:
CU-102

CIVIL UTILITY - SEWER EXTENSION

LOCATED IN THE NORTH HALF OF SECTION 26, TOWNSHIP 2 SOUTH, RANGE 6 WEST, SALT LAKE BASE AND MERIDIAN, GRANTSVILLE, TOOELE COUNTY, UTAH





SCALE: 1" = 50'

0 50 100 150

N

SCOPE OF WORK

3331	SANITARY SEWER MANHOLE, 4-FT DIAMETER, COMPLETE, APWA PLAN 402, 411, 413
3332	SANITARY SEWER MANHOLE, 5-FT DIAMETER, COMPLETE, APWA PLAN 402, 411, 413
3334	PVC SANITARY SEWER PIPE, 8-INCH, SDR 35, APWA PLAN 381 & 382
3335	PVC SANITARY SEWER PIPE, 12-INCH, SDR 35, APWA PLAN 381 & 382

No.	Revisions	By	Date
1	City Public Works requires 4500 PSI concrete for Public Way Improvements	BYB	8.12.21

FINAL INFRASTRUCTURE

Project Number 21-45015

Designed By BYB

Drawn By BYB

Date Issued 2022.09.29

Project Name:

WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY, UTAH

CIVIL PROJ-EX, INC
ENGINEERS * PLANNERS
96 QUIRK STREET
GRANTSVILLE, UTAH 84029

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7224167
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2022.08.29

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Sheet Name:

CU-103

CIVIL ENVIRONMENTAL CONTROL DETAILS

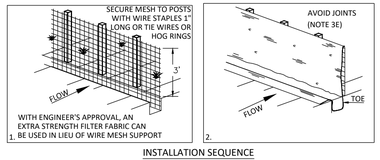
Silt fence

1. GENERAL
   - A. Description. A temporary sediment barrier consisting of a filter fabric stretched across and attached to supporting posts and entrenched.
   - B. Application. To intercept sediment from disturbed areas of limited extent.
   - C. Perimeter Control: Place barrier at down gradient limits of disturbance.
   - D. Sediment Barrier: Place barrier at toe of slope or soil stockpile.
   - E. Protection of Existing Waterways: Place barrier at top of stream bank.
   - F. Inlet Protection.

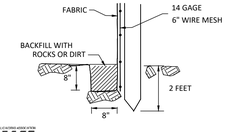
2. PRODUCTS
   - A. Fabric. Synthetic filter fabric shall be a pervious sheet of propylene, nylon, polyester, or polyethylene yarn. Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of 6 months of expected usable construction life at a temperature range of 0 deg F to 120 deg F.
   - B. Burlap. 10 ounces per square yard of fabric.
   - C. Posts. Either 2" x 4" diameter wood, or 1.33 pounds per linear foot steel with a minimum length of 5 feet, or steel posts with projections for fastening wire to them.

3. EXECUTION
   - A. Cut the fabric on site to desired width, unroll, and drape over the barrier. Secure the fabric toe with rocks or dirt and secure the fabric to the mesh with twin, staples or similar devices.
   - B. When attaching two silt fences together, place the end post of the second fence inside the end post of the first fence. Rotate both posts at least 180 degrees on a clockwise direction to create a tight seal with the filter fabric. Drive both posts into the ground and bury the flap.
   - C. When used to control sediments from a steep slope, place silt fences away from the toe of the slope for increased holding capacity.
   - D. Maintenance
     - (1) Inspect immediately after each rainfall and at least daily during prolonged rainfall.
     - (2) Should the fabric on a silt fence or filter barrier decompose or become ineffective before the end of the expected usable life and the barrier still be necessary, replace the fabric promptly.
     - (3) Remove sediment deposits after each storm event. They must be removed when deposits reach approximately one-half the height of the barrier.
     - (4) Re-anchor fence as necessary to prevent shortcutting.
     - (5) Inspect for runoff bypassing ends of barriers or undercutting barriers.

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



INSTALLATION SEQUENCE



TOE DETAIL

APWA Utah Chapter

Plan No. **122** February 2006

1 **Silt fence** SCALE: NTS

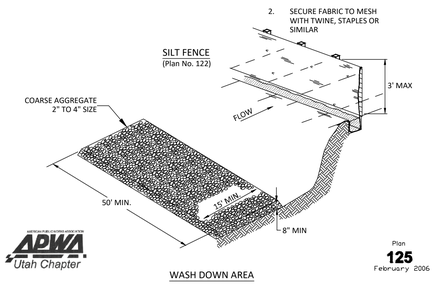
Equipment and vehicle wash down area

1. GENERAL
   - A. Description. A temporary stabilized pad of gravel for general washing of equipment and construction vehicles.
   - B. Application.
     - 1) At any site where regular washing of vehicles and equipment will occur.
     - 2) May also be used as a filling point for water trucks limiting erosion caused by overflow or spillage of water.

2. PRODUCTS (Not used)

3. EXECUTION
   - A. Clear and grub area and grade to provide maximum slope of 1 percent away from paved roadway.
   - B. Compact subgrade.
   - C. Place filter fabric under wash down area if desired (recommended for wash area that remains more than 3 months).
   - D. Install silt fence down gradient (see Plan 122)
   - E. Maintenance.
     - 1) Requires periodic top dressing with additional stones.
     - 2) Solely used to control sediment in wash water. Cannot be utilized for washing equipment or vehicles that may cause contamination of runoff (such as fertilizer equipment or concrete equipment).
     - 3) Keep the wash area in a condition which will prevent tracking or flow of mud onto public rights-of-way.
     - 4) Periodically dress the top with 2-inch stone may be required, as conditions demand, and repair any structures used to trap sediments.
     - 5) Inspect daily for loss of gravel or sediment buildup.
     - 6) Inspect adjacent area for sediment deposit and install additional controls as necessary.
     - 7) Expand stabilized area as required to accommodate activities.
     - 8) Maintain silt fence as outlined in Plan 122.

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



WASH DOWN AREA

APWA Utah Chapter

Plan **125** February 2006

3 **Equipment and vehicle wash down area** SCALE: NTS

Stabilized roadway entrance

1. GENERAL
   - A. A temporary stabilized pad of gravel for controlling equipment and construction vehicle access to the site.
   - B. At any site where vehicles and equipment enter the public right of way.

2. PRODUCTS (Not used)

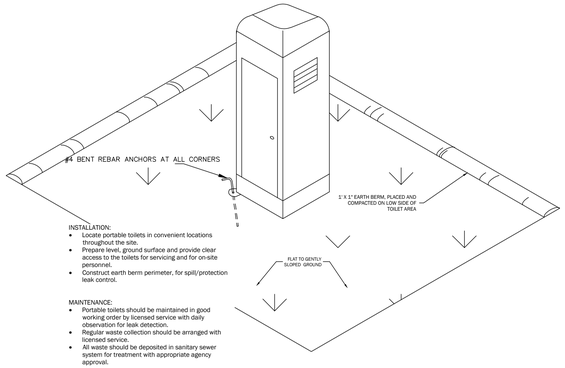
3. EXECUTION
   - A. Clear and grub area and grade to provide maximum slope of 1 percent away from paved roadway.
   - B. Compact subgrade.
   - C. Place filter fabric under stone if desired (recommended for entrance area that remains more than 3 months).
   - D. Maintenance.
     - 1) Prevent tracking or flow of mud into the public right-of-way.
     - 2) Periodic top dressing with 2-inch stone may be required, as conditions demand, and repair any structures used to trap sediments.
     - 3) Inspect daily for loss of gravel or sediment buildup.
     - 4) Inspect adjacent area for sediment deposit and install additional controls as necessary.
     - 5) Expand stabilized area as required to accommodate activities.

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.

APWA Utah Chapter

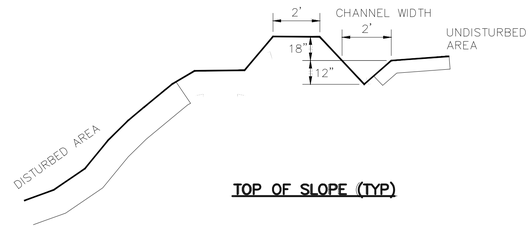
Plan No. **126** February 2006

4 **Stabilized roadway entrance** SCALE: NTS

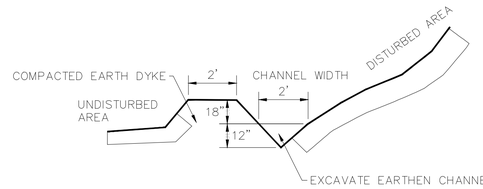


5 **Toilet** SCALE: NTS

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRATICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



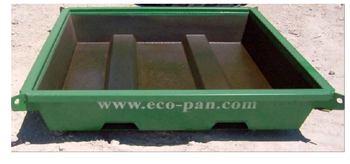
TOP OF SLOPE (TYP)



BASE OF SLOPE (TYP)

Plan No. **123** February 2006

6 **Diversion dike** SCALE: NTS



7 **Concrete wash-out bin** SCALE: NTS

No.	Revisions	By	Date
1	City Public Works requires 4500 PSI concrete for Public Way Improvements	BYB	8.12.21

FINAL INFRASTRUCTURE

Project Number 21-45015 | Designed By BYB | Drawn By BYB | Date Issued 2022.08.29

Project Name:

WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY,UTAH

CIVIL PROJ-EX, INC
ENGINEERS * PLANNERS
96 QUIRK STREET
GRANTSVILLE, UTAH 84029

PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
STATE OF UTAH
2022.08.29

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Sheet Name:

C-511

CIVIL SURFACE INFRASTRUCTURE DETAILS

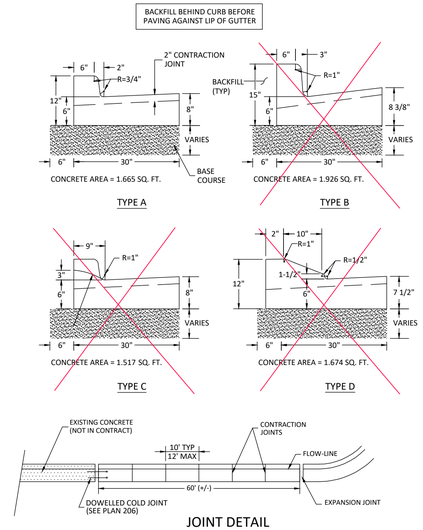
Concrete for all surface improvements in the Public Way including but not limited to; sidewalk, driveway entrances, pedestrian ramps, curb and gutter, water ways, manhole, vault and valve collars, and any other cast in place surface concrete features shall be constructed with minimum **4,500 psi** concrete per Grantsville City Public Works.

Curb and gutter

1. GENERAL
   A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.

2. PRODUCTS
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
   C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
   D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

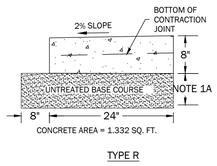
3. EXECUTION
   A. Base Course Placement: APWA Section 32 05 10. Thickness is 6-inches if flowline grade is 0.5 percent (s=0.005) or greater. If slope is less, provide 8-inches. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   B. Concrete Placement: APWA Section 03 30 10.
      1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install at the start or end of a street intersection curb return. Expansion joints are not required in concrete placement using slip-form construction.
      2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Match joint location in adjacent Portland-cement concrete roadway pavement.
      3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
   C. Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.



APWA Utah Chapter

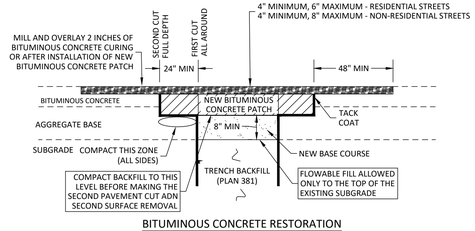
Plan No. **205.1** December 2008

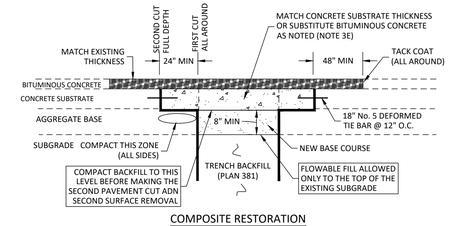
Curb and gutter



1 CONCRETE CURB AND GUTTER
SCALE: NTS

1. GENERAL
   A. Vertical cuts in bituminous pavement may be done by saw or pavement zipping. If cuts greater than 6 inches are necessary to prevent pavement "break off" consult ENGINEER for directions on handling additional costs.
   B. Repair a T-patch restoration if any of the following conditions occur prior to final payment or at the end of the one year correction period.
      1) Pavement surface distortion exceeds 1/4-inch deviation in 10 feet. Repair option - plane off surface distortions. coat planed surface with a cationic or anionic mulsion that complies with APWA Section 32 12 03.
      2) Separation appears at a connection to an existing pavement or any Street Fixture. Repair option - blow separation clean and apply joint sealant, Plan 265.
      3) Cracks at least 1-foot long and 1/4-inch wide occur more often than 1 in 10 square feet. Repair option - blow clean and apply crack seal, Plan 265.
      4) Pavement raveling is greater than 1 square foot per 100 square feet. Repair option - Mill and inlay, APWA Sections 32 01 16.71 and 32 12 05.
2. PRODUCTS
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER'fs permission.
   B. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
   C. Reinforcement. No. 5, galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A615.
   D. Concrete: Class 4000, APWA Section 03 30 04.
   E. Tack Coat: APWA Section 32 12 13.13.
   F. Bituminous Concrete. APWA Section 32 12 05.
      1) Warm Weather Patch: PG64-22-DM-1/2, unless indicated otherwise.
      2) Cold Weather Patch: Modified MC-250-FM-1 as indicated in APWA Section 33 05 25.
3. EXECUTION
   A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   B. Flowable Fill: Cure to initial set before placing aggregate base or bituminous pavement. Use in excavations that are too narrow to receive compaction equipment.
   C. Tack Coat. Clean all horizontal and vertical surfaces. Apply full coverage all surfaces.
   D. Pavement Placement: Follow APWA Section 32 12 16.13. Unless indicated otherwise, lift thickness is 3-inches minimum after compaction. Compact to 94 percent of ASTM D2041 (Rice density) plus or minus 2 percent.
   E. Bituminous Concrete Substitution: If bituminous concrete is substituted for Portland cement concrete substrate, omit rebar and provide 1.25 inches of bituminous concrete for each 1 inch of Portland cement concrete. Follow paragraph E requirements.
   F. Reinforcement. Required if thickness of existing Portland-cement concrete substrate is 6- inches or greater. Not required if 1) less than 6-inches thick, 2) if existing concrete is deteriorating, 3) if excavation is less than 3 feet square, or 4) if bituminous pavement is substituted for Portland-cement concrete substrate.
   G. Concrete Substrate. Cure to initial set before placing new bituminous concrete patch.





APWA Utah Chapter

4 ***Bituminous pavement T-patch***
SCALE: NTS

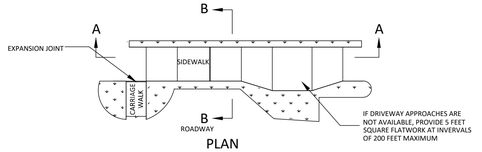
Plan **255** November 2015

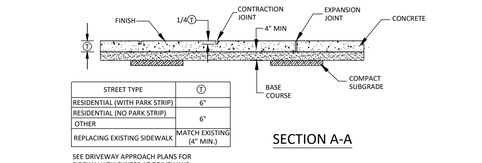
Sidewalk

1. GENERAL
   A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
   B. Additional requirements are specified in APWA Section 32 16 13.

2. PRODUCTS
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
   C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
   D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

3. EXECUTION
   A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   B. Concrete Placement: APWA Section 03 30 10.
      (1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface.
      (2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Maximum length to width ratio for non-square panels is 1.5 to 1. Maximum panel length (in feet) is 1.5 times the slab thickness (in inches).
      (3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.

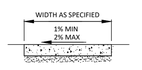




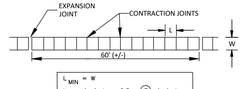
STREET TYPE	T
RESIDENTIAL (WITH PARK STRIP)	6"
RESIDENTIAL (NO PARK STRIP)	6"
OTHER	
REPLACING EXISTING SIDEWALK	MATCH EXISTING (4" MIN.)

SEE DRIVEWAY APPROACH PLANS FOR SIDEWALK THICKNESS AT DRIVEWAYS

SECTION A-A



SECTION B-B



SIDEWALK JOINT DETAIL

APWA Utah Chapter

5 ***Sidewalk***
SCALE: NTS

Plan **231** March 2009

No.	Revisions	By	Date
1	City Public Works requires 4500 PSI concrete for Public Way Improvements	BYB	8.12.21

FINAL INFRASTRUCTURE

Project Number 21-45015

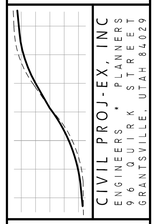
Designed By BYB

Date Issued 2022.08.29

Drawn By BYB

WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY,UTAH

Project Name:



CIVIL PROJ-EX, INC
ENGINEERS * PLANNERS
96 QUIRK STREET
GRANTSVILLE UTAH 84029

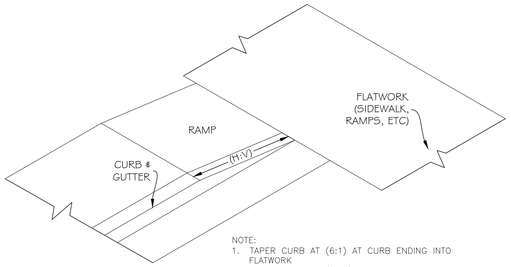
PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
STATE OF UTAH
2022.08.29

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Sheet Name:

C-521

CIVIL SURFACE INFRASTRUCTURE DETAILS



NOTE:
1. TAPER CURB AT (6:1) AT CURB ENDING INTO FLATWORK
2. TAPER CURB AT (12:1) MAX ALONG LONGITUDINAL RAMPS, WALK WAYS OR PATHS

1 TAPER CURB
SCALE: NTS

Concrete for all surface improvements in the Public Way including but not limited to; sidewalk, driveway entrances, pedestrian ramps, curb and gutter, water ways, manhole, vault and valve collars, and any other cast in place surface concrete features shall be constructed with minimum **4,500 psi** concrete per Grantsville City Public Works.

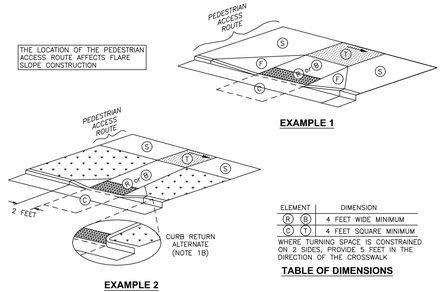
Mid-block curb cut assembly

1. GENERAL
   A. Where existing elements or spaces are altered to receive an assembly; slopes and dimensions shall comply with slopes and dimensions shown on the drawing, or to the maximum extent feasible permitted by the ENGINEER. Final configuration of the assembly may be different than shown.
   B. Installation of a curb wall is ENGINEER's choice.
   C. Definitions and supplemental requirements are specified in APWA Section 32 16 14.

2. PRODUCTS
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73..
   C. Detectable Warning Surface: Paver, ribbed composite panel, or tile. Provide a color that contrasts with adjacent walking surface, either light-on-dark or dark-on-light. ENGINEER to select type and color unless indicated elsewhere.
   D. Concrete: Class 4000, APWA Section 03 30 04.
   E. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

3. EXECUTION
   A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   B. Curb Modifications:
      1) The sloped surface created to accommodate the ramp or approach areas shall be perpendicular to the back of curb.
      2) No grade break shall exist between the flow-line and the turning space. Length of the curb modification abutting the turning space is 4 feet minimum.
   C. Curb Ramp: Length not required to exceed 15 feet. Grade breaks are perpendicular to the direction of ramp run and are not permitted on the ramp or turning space surface. Sides are parallel to each other and perpendicular to the ends.
   D. Concrete Placement: APWA Section 03 30 10.
      1) Maximum length to width ratio for rectangular panel joints is 1.5 to 1. Joint spacing measured in feet not to exceed twice slab thickness measured in inches or a maximum of 15 feet.
      2) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install contraction joints vertical, 1/8-inch wide, and 1/4 of the depth of the concrete flatwork.
      3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
   E. Clear Space: No trip hazards in the clear space.

TURNING SPACE AT SIDEWALK LEVEL



EXAMPLE 1

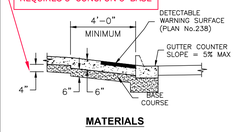
EXAMPLE 2

ELEMENT		DIMENSION
R	B	4 FEET WIDE MINIMUM
C	T	4 FEET SQUARE MINIMUM

WHERE TURNING SPACE IS CONSTRAINED ON 2 SIDES, PROVIDE 5 FEET IN THE DIRECTION OF THE CROSSWALK

TABLE OF DIMENSIONS

GRANTSVILLE PUBLIC WORKS REQUIRES 6" CONC. ON 6" BASE



MATERIALS

		RUNNING SLOPE (%) MAXIMUM	CROSS SLOPE (%) MAXIMUM
TURNING SPACE	T	STREET GRADE	2
CURB RAMP	R	8.33	2 (c)
BLENDED TRANSITION	B	5	2 (c)
CLEAR SPACE	C	5	2 (c)
SIDEWALK	S	STREET GRADE	2
FLARE	F	10	---

(a) RUNNING SLOPE IS IN THE DIRECTION OF PEDESTRIAN TRAVEL. RUNNING SLOPE OF FLARE IS PARALLEL TO BACK OF CURB
(b) CROSS SLOPE IS PERPENDICULAR TO DIRECTION OF PEDESTRIAN TRAVEL

SLOPE TABLE

APWA Utah Chapter

2 Mid-block curb cut assembly
SCALE: NTS

Plan **236.1** September 2011

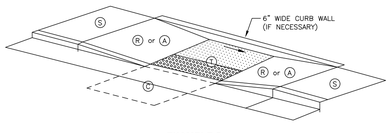
Mid-block curb cut assembly

1. GENERAL
   A. Where existing elements or spaces are altered to receive an assembly; slopes and dimensions shall comply with slopes and dimensions shown on the drawing, or to the maximum extent feasible permitted by the ENGINEER. Final configuration of the assembly may be different than shown.
   B. Installation of a curb wall is ENGINEER's choice.
   C. Definitions and supplemental requirements are specified in APWA Section 32 16 14.

2. PRODUCTS
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73..
   C. Detectable Warning Surface: Paver, ribbed composite panel, or tile. Provide a color that contrasts with adjacent walking surface, either light-on-dark or dark-on-light. ENGINEER to select type and color unless indicated elsewhere.
   D. Concrete: Class 4000, APWA Section 03 30 04.
   E. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

3. EXECUTION
   A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   B. Curb Modifications:
      1) The sloped surface created to accommodate the ramp or approach areas shall be perpendicular to the back of curb.
      2) No grade break shall exist between the flow-line and the turning space. Length of the curb modification abutting the turning space is 4 feet minimum.
   C. Curb Ramp: Length not required to exceed 15 feet. Grade breaks are perpendicular to the direction of ramp run and are not permitted on the ramp or turning space surface. Sides are parallel to each other and perpendicular to the ends.
   D. Curb Wall: Set top of curb wall equal to elevation of extended lateral lines of sidewalk.
   E. Concrete Placement: APWA Section 03 30 10.
      1) Maximum length to width ratio for rectangular panel joints is 1.5 to 1. Joint spacing measured in feet not to exceed twice slab thickness measured in inches or a maximum of 15 feet.
      2) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install contraction joints vertical, 1/8-inch wide, and 1/4 of the depth of the concrete flatwork.
      3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
   F. Clear Space: No trip hazards in the clear space.

TURNING SPACE AT STREET LEVEL



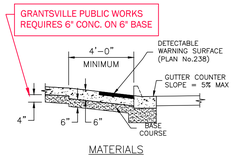
EXAMPLE 5

ELEMENT		DIMENSION
R	A	4 FEET WIDE MINIMUM
C	T	4 FEET SQUARE MINIMUM

WHERE TURNING SPACE IS CONSTRAINED ON 2 SIDES, PROVIDE 5 FEET IN THE DIRECTION OF THE CROSSWALK

TABLE OF DIMENSIONS

GRANTSVILLE PUBLIC WORKS REQUIRES 6" CONC. ON 6" BASE



MATERIALS

		RUNNING SLOPE (%) MAXIMUM	CROSS SLOPE (%) MAXIMUM
TURNING SPACE	T	STREET GRADE	2
CURB RAMP	R	8.33	2
CLEAR SPACE	C	5	STREET GRADE
SIDEWALK	S	STREET GRADE	2
APPROACHE	A	8.33	2

(a) RUNNING SLOPE IS IN THE DIRECTION OF PEDESTRIAN TRAVEL. RUNNING SLOPE OF FLARE IS PARALLEL TO BACK OF CURB
(b) CROSS SLOPE IS PERPENDICULAR TO DIRECTION OF PEDESTRIAN TRAVEL

SLOPE TABLE

APWA Utah Chapter

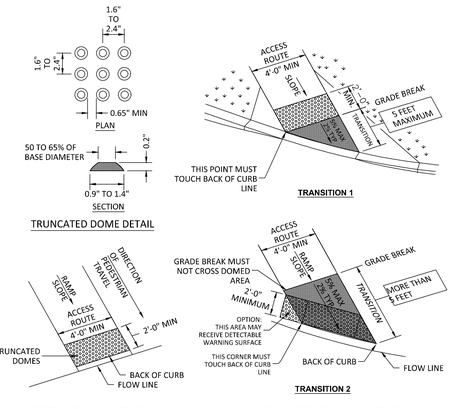
3 Midblock curb cut assembly
SCALE: NTS

Plan **236.3** September 2011

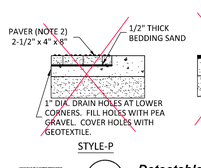
1. GENERAL
   A. Detectable warnings consist of a surface of truncated domes aligned in a square or radial grid pattern with dome size, dome spacing, contrast and panel size as indicated.
   B. Definitions and supplemental requirements are specified in APWA Section 32 16 14.

2. PRODUCTS
   A. Pavers:
      1) Concrete, APWA Section 32 14 13.
      2) Brick and Mortar, APWA Section 32 14 16.
   B. Tile: Unless indicated elsewhere, selection is by CONTRACTOR as allowed by ENGINEER.
   C. Ribbed Composite Panel: Unless indicated elsewhere, selection is by CONTRACTOR as allowed by ENGINEER.
   D. D. Bedding Sand, Joint Sand, Geotextile: APWA Section 32 14 13.

3. EXECUTION
   A. Layout:
      1) Joints Between Units: 3/16 inch maximum or manufacturer'fs recommendation.
      2) Flares: Do not install detectable warning units on flared surfaces.
      3) Alignment: Where a ramp, turning space, or blended transition provides access to the street continuously around a corner, align the vertical rows of truncated domes to be perpendicular or radial to the grade break between the ramp and the street for a 4 feet minimum width for each crosswalk served.
      4) Transition 1 or 2: Selection is by ENGINEER unless indicated elsewhere.
      5) At Rail Crossings: The edge of the detectable warning surface nearest the rail crossing is 6 feet minimum and 15 feet maximum from the centerline of the nearest rail.
   B. Paver Installation: APWA Section 32 14 13. If paver must be cut, minimum paver cut length is 3/4 paver, or 1/2 paver length providing the adjacent paver is also reduced no more than 1/2 its original length. Do not cut pavers longitudinally. Remove domes that were cut.
   C. Tile Installation: Install according to manufacturer'fs recommendations. Remove domes that were cut.
   D. Ribbed Composite Panel Installation: Install according to manufacturer's recommendation. Remove domes that were cut. Seal cuts to prevent water intrusion.

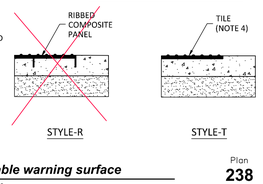


PERPENDICULAR ASSEMBLY



STYLE-P

NON-PERPENDICULAR ASSEMBLY



STYLE-R STYLE-T

APWA Utah Chapter

4 Detectable warning surface
SCALE: NTS

Plan **238** July 2011

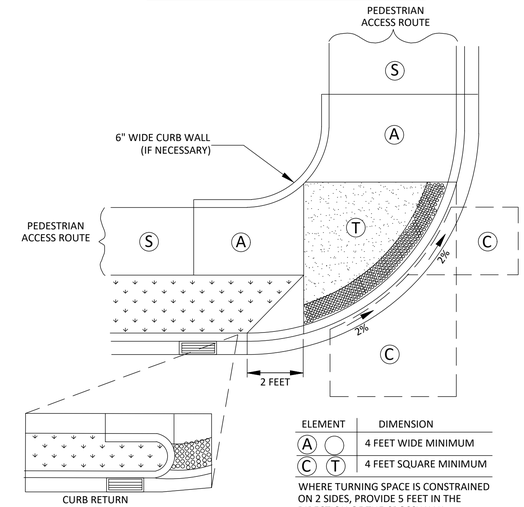
Corner curb cut assembly

1. GENERAL
   A. Where existing elements or spaces are altered to receive an assembly; slopes and dimensions shall comply with slopes and dimensions shown on the drawing, or to the maximum extent feasible permitted by the ENGINEER. Final configuration of the assembly may be different than shown. Where physical constraints (e.g. utility covers, poles, vaults, etc.) prevent compliance, a single diagonal curb cut assembly may serve both pedestrian street crossings.
   B. Installation of a curb wall, flares, or curb returns is ENGINEER's choice.
   C. Definitions and supplemental requirements are specified in APWA's Section 32 16 14.

2. PRODUCTS
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
   C. Detectable Warning Surface: Paver, ribbed composite panel, or tile. Provide a color that contrasts with adjacent walking surface, either light-on-dark or dark-on-light. ENGINEER to select type and color unless indicated elsewhere.
   D. Concrete: Class 4000, APWA Section 03 30 04.
   E. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

3. EXECUTION
   A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   B. Curb Modifications:
      (1) The sloped surface created to accommodate a flare or an approach area shall be perpendicular to the back of curb.
      (2) No grade break shall exist between the flow-line and the turning space. Length of the curb modification abutting the turning space is 4 feet minimum for each crosswalk served.
   C. Curb Wall: Set top of curb wall equal to elevation of extended lateral lines of sidewalk.
   D. Concrete Placement: APWA Section 03 30 10.
      (1) Maximum length to width ratio for rectangular panel joints is 1.5 to 1. Joint spacing measured in feet not to exceed twice slab thickness measured in inches or a maximum of 15 feet.
      (2) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install contraction joints vertical, 1/8-inch wide, and 1/4 of the depth of the concrete flatwork.
      (3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
   E. Clear Space: No hazards in the clear space.

TURNING SPACE AT STREET LEVEL

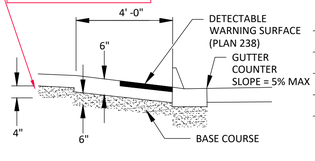


EXAMPLE D

ELEMENT		DIMENSION
A		4 FEET WIDE MINIMUM
C	T	4 FEET SQUARE MINIMUM

WHERE TURNING SPACE IS CONSTRAINED ON 2 SIDES, PROVIDE 5 FEET IN THE DIRECTION OF THE CROSSWALK

GRANTSVILLE PUBLIC WORKS REQUIRES 6" CONC. ON 6" BASE



MATERIALS

TABLE OF DIMENSIONS

		RUNNING SLOPE (%) MAXIMUM	CROSS SLOPE (%) MAXIMUM
TURNING SPACE	T	2	2
CLEAR SPACE	C	5	2 (c)
SIDEWALK	S	STREET GRADE	2
APPROACH	A	8.33	2

(a) RUNNING SLOPE IS IN THE DIRECTION OF PEDESTRIAN TRAVEL. RUNNING SLOPE OF FLARE IS PARALLEL TO BACK OR CURB
(b) CROSS SLOPE IS PERPENDICULAR TO DIRECTION OF PEDESTRIAN TRAVEL

SLOPE TABLE

Plan No. **235.2** August 2011

5 Corner curb cut assembly
SCALE: NTS

No.	Revisions	By	Date
1	City Public Works requires 4500 PSI concrete for Public Way Improvements	BYB	8.12.21

FINAL INFRASTRUCTURE

Project Number 21-45015 | Designed By BYB | Date Issued 2022.08.29 | Drawn By BYB

WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY,UTAH

Project Name:

CIVIL PROJ-EX, INC
ENGINEERS * PLANNERS
96 QUIRK STREET
GRANTSVILLE, UTAH 84029

PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
Barry V. Bunderson
2022.08.29
STATE OF UTAH

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Sheet Name:

C-522

CIVIL SURFACE INFRASTRUCTURE DETAILS

Monument cap and base

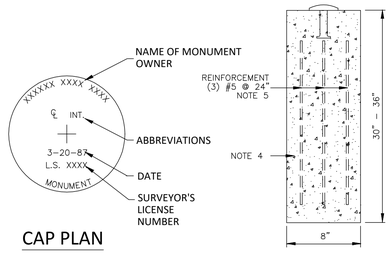
1. GENERAL
   A. Includes fabrication of monument cap and base.

2. PRODUCTS
   A. Cap: Brass or bronze with the following abbreviations. Apply other marks and abbreviations as applicable.

INT	Intersection
ML INT	Monument line intersection
P.C.	Point of curvature
P.C.C.	Point of compound curve
P.I.	Point of intersection
P.O.C.	Point on curve
P.O.T.	Point on Tangent
P.R.C.	Point of reverse curve
P.T.	Point of tangency
S.C.	Section Corner
W.C.	Witness corner

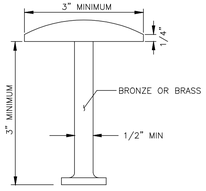
   B. Concrete: Class 4000, APWA Section 03 30 04.
   C. Reinforcement: Galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A615.

3. EXECUTION
   A. Monument Cap: Show month, day, and year when cap was marked.
   B. License: Show license number of land surveyor who marked the cap.
   C. Provide either precast or cast in-place monument base.

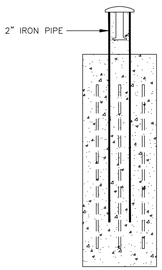


CAP PLAN

SECTION OF BASE
TYPICAL SETTING



CAP SECTION



SECTION OF BASE
ALTERNATE SETTING

APWA Utah Chapter

1 ***Monument cap and base***
SCALE: NTS

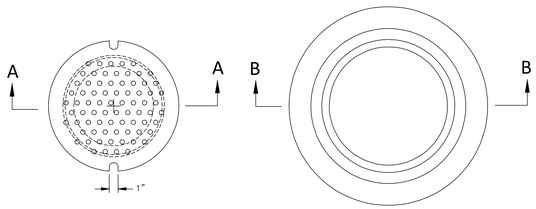
Plan No. **272** April 1997

Frame and cover for monument

1. GENERAL
   A. The drawing is a frame and cover castings for monument boxes, Plan 274 and 275.

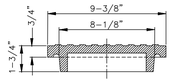
2. PRODUCTS
   A. Castings: Class 20 grey iron, ASTM A48, coated with asphalt based paint or better.

3. EXECUTION
   A. Set frame independent of monument post.

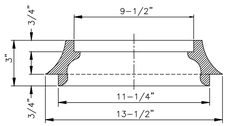


COVER

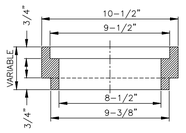
FRAME



SECTION A-A



SECTION B-B



EXTENSION

NOTE: USE EXTENSION IN PORTLAND CEMENT CONCRETE PAVEMENTS. USE FRAME IN BITUMINOUS CONCRETE PAVEMENTS.

APWA Utah Chapter

4 ***Frame and cover for monument***
SCALE: NTS

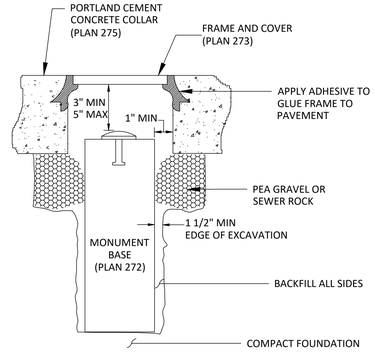
Plan No. **273** April 1997

Cover collar for survey monuments

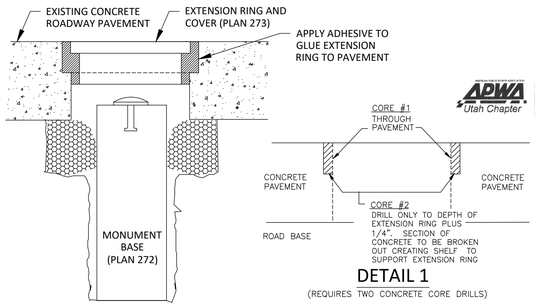
1. GENERAL
   A. In a pavement surface, fill an annular space around a frame and cover casting with concrete. The concrete will support the casting under traffic loadings.

2. PRODUCTS
   A. Castings: Class 20 grey iron, ASTM A48, coated with asphalt based paint or better
   B. Backfill: Native soil or backfill borrow, APWA Section 31 05 13.
   C. Concrete: Class 4000, APWA Section 03 30 04.
   D. Adhesive: Epoxy adhesive grout, APWA Section 03 30 10.
   E. Pea Gravel: Nominal size 3/4, APWA Section 31 05 13.
   F. Sewer Rock: Nominal size 1", APWA Section 31 05 13.

3. EXECUTION
   A. Locate monument base so reference point falls within 1-inch diameter circle in the center of marker plate. Install maker plate in monument base before the concrete sets.
   B. Compact bottom of excavated hole before placement of precast or cast-in-place monument post.
   C. Compact backfill to 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   D. Set top of frame and cover level with concrete collar.
   E. Set frame independent of monument post.



BITUMIOUS CONCRETE PAVEMENTS



DETAIL 1
(REQUIRES TWO CONCRETE CORE DRILLS)

CEMENT CONCRETE PAVEMENTS

APWA Utah Chapter

3 ***Survey monument placement under pavements***
SCALE: NTS

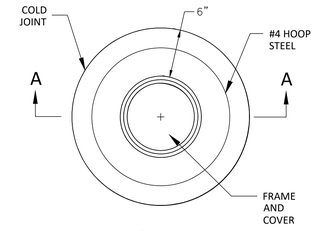
Plan No. **274** December 2001

Cover collar for survey monuments

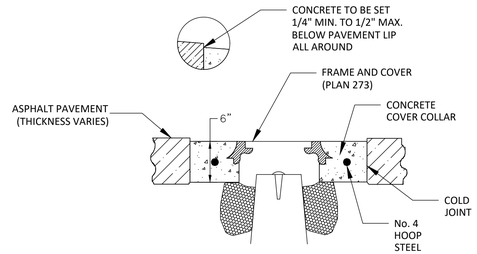
1. GENERAL
   A. In a pavement surface, fill an annular space around a frame and cover casting with concrete. The concrete will support the casting under traffic loadings.

2. PRODUCTS
   A. Concrete: Class 4000, APWA Section 03 30 04.
   B. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type D Class A), APWA Section 03 39 00.

3. EXECUTION
   A. Pavement Preparation: Provide a neat vertical and concentric joint between concrete and existing bituminous concrete surfaces. Clean edges of all dirt, oil, and loose debris.
   B. Concrete Placement: Fill the annular space around the frame and cover casting with concrete. Apply a broom finish. Apply a curing agent.



PLAN



SECTION A-A

APWA Utah Chapter

4 ***Cover collar for survey monuments***
SCALE: NTS

Plan No. **275** April 2011

No.	Revisions	By	Date
1	City Public Works requires 4500 PSI concrete for Public Way Improvements	BVB	8.12.21

FINAL INFRASTRUCTURE

Project Number 21-45015 | Designed By BVB | Drawn By BVB | Date Issued 2022.08.29

Project Name:

WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY, UTAH

CIVIL PROJ-EX, INC
ENGINEERS * PLANNERS
96 QUIRK STREET
GRANTSVILLE, UTAH 8429

PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
Barry V. Bunderson
2022.08.29
STATE OF UTAH

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Sheet Name:

C-523

CIVIL STORM DRAIN DETAILS

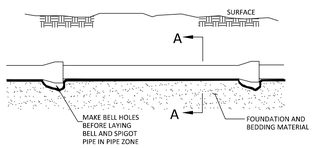
Concrete for all surface improvements in the Public Way including but not limited to; sidewalk, driveway entrances, pedestrian ramps, curb and gutter, water ways, manhole, vault and valve collars, and any other cast in place surface concrete features shall be constructed with minimum **4,500 psi** concrete per Grantsville City Public Works.

Pipe zone backfill

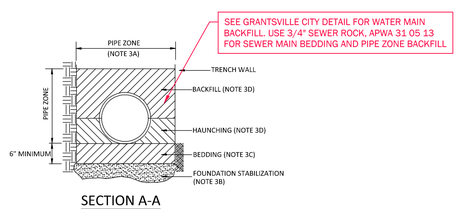
1. GENERAL
   A. Install the pipe in the center of the trench or no closer than 6-inches from the wall of the pipe to the wall of the trench.

2. PRODUCTS
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
   C. Concrete: APWA Section 03 30 04.
   D. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
   E. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.

3. EXECUTION
   A. Excavate the Pipe Zone: Width is measured at the pipe spring line and includes any necessary sheathing. Provide width recommended by pipe manufacturer. Follow manufacturer'fs recommendations when using trench boxes.
   B. Foundation Stabilization: Get ENGINEER'fs permission before installing common fill. Vibrate to stabilize. Installation of stabilization-separation geotextile will be required to separate backfill material and native subgrade materials if common fill cannot provide a working surface or prevent soils migration.
   C. Bedding: Follow APWA Section 33 05 20 requirements and the following provisions.
      (1) Furnish untreated base course material unless specified otherwise by pipe manufacturer.
      (2) Maximum lift thickness is 8-inches.
      (3) Bedding immediately under the pipe should not be compacted, but loosely placed.
      (4) Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
      (5) When using concrete, provide at least Class 2,000, APWA Section 03 30 04.
   D. Pipe Zone: DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate in the pipe zone. Water jetting is NOT allowed.
      (1) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26 unless pipe manufacturer requires more stringent installation.
      (2) Submission of quality control compaction test result data developed for the haunch zone may be requested by ENGINEER at any time. CONTRACTOR is to provide results of tests immediately upon request.
   E. Flowable Fill (when required and if allowed by pipe manufacturer):
      (1) Place the controlled low strength material, APWA Section 31 05 15.
      (2) Prevent pipe flotation by installing in lifts and providing pipe restraints as required by pipe manufacturer.
      (3) Reset pipe to line and grade if pipe "floats" out of position.



ELEVATION VIEW



SECTION A-A

INSTALLATION

CONCRETE PIPE: FOLLOW ASTM C 1479
STANDARD PRACTICE FOR INSTALLATION OF PRECAST CONCRETE SEWER, STORM DRAIN, AND CULVERT PIPE USING STANDARD INSTALLATIONS.

PLASTIC PIPE: FOLLOW ASTM D 2321
STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS.

CORRUGATED METAL PIPE: FOLLOW ASTM A 798
STANDARD PRACTICE FOR INSTALLING FACTORY-MADE CORRUGATED STEEL PIPE FOR SEWERS AND OTHER APPLICATIONS.

VITRIFIED CLAY PIPE: FOLLOW ASTM C 12
STANDARD RECOMMENDED PRACTICE FOR INSTALLING VITRIFIED CLAY PIPE LINES.

APWA Utah Chapter

Plan No. **382** January 2011

1 ***Pipe zone backfill***
SCALE: NTS

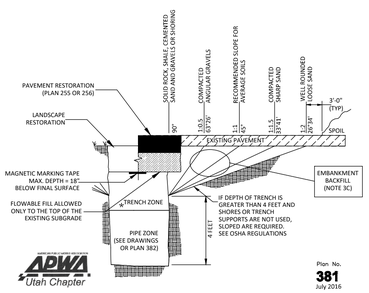
Trench backfill

1. GENERAL
   A. The drawing applies to backfilling a trench (and embankment) above the pipe zone.

2. PRODUCTS
   A. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches.
   B. Flowable Fill: APWA Section 31 05 15. Target is 60 psi in 28 days with 90 psi maximum in 28 days, It must flow easily requiring no vibration for consolidation.

3. EXECUTION
   A. Trench Backfill Above the Pipe Zone: Follow requirement indicated in APWA Section 33 05 20 and the following provisions. See Standard Plan 382 for backfilling the pipe zone.
      (1) DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate as trench backfill.
      (2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.
      (3) Water jetting is NOT allowed.
   B. Flowable Fill: If controlled low strength material is placed in the trench. Cure the material before placing surface restorations.
   C. Embankment Backfill: When trench sides are sloped proceed as follows.
      (1) Maximum lift thickness is 8-inches before compaction.
      (2) Compact per APWA Section 31 23 26 to 95 percent or greater relative to a standard proctor density.
      (3) Submission of quality control compaction test result data may be requested by ENGINEER at any time. Provide results of tests immediately upon request.
   D. Surface Restoration:
      (1) Landscaped Surface: Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (groundcover) requirements. Rake to match existing grade. Replace vegetation to match pre-construction conditions.
      (2) Paved Surface: Follow APWA Section 33 05 25 (bituminous pavement surfacing), or APWA Section 33 05 25 (concrete pavement surfacing). Do not install surfacing until compaction density is acceptable to ENGINEER.

NARRATIVE: THIS PLAN SHOWS VARIOUS SLOPES RECOMMENDED FOR VARIOUS TYPES OF SLOPE STABILITY PROBLEMS. THE VERTICAL TEXT INDICATES VARIOUS MATERIALS THAT MAY BE ENCOUNTERED. THE SERVICES OF A PROFESSIONAL SOILS ENGINEER SHOULD BE USED TO VERIFY SLOPE STABILITY.



APWA Utah Chapter

Plan No. **381** July 2016

SECTION A-A

Trench backfill

* ADDITIONAL GRANTSVILLE CITY TRENCH ZONE NOTES

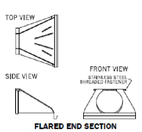
PAVED ROADWAY: Above the pipe zone.
A. A-1-a Granular Borrow APWA Section 31 05 13. Limit maximum particle size to 6 inches. Place fill per APWA Section 33 05 20. Compact to a modified proctor density of 95 percent or greater. Maximum lift thickness is 8 inches before compaction. Do not use clay without ENGINEER's review and acceptance. Water jetting is NOT allowed in backfilling operation.
B. Flowable Fill. Provide and place controlled low strength material per APWA Section 31 05 15. Cure the fill before placing surface restorations.

NON-ROADWAY: Above the pipe zone.
A. Native Fill: CONTRACTOR to submit appropriate Proctor per APWA Section 31 23 26. Place in lifts not exceeding 8 inches before compaction. Compact per APWA Section 31 23 26 to a standard proctor density of 80 percent or greater.

2 Trench backfill
SCALE: NTS

FLARED END SECTIONS

SIZE	PRODUCT CODE
10" (250mm)	1015NP
12" (300mm) / 15" (375mm)	1215NP
18" (450mm)	1810NP
24" (600mm)	2410NP
30" (750mm)	3015NP
36" (900mm)	3615NP



FLARED END SECTION

METAL TRASH GUARDS*

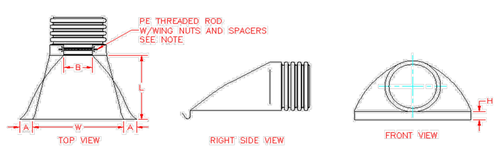
DIAMETER	DESCRIPTION	PRODUCT CODE
12" (300mm)	GALVANIZED STEEL	1290DA
15" (375mm)	GALVANIZED STEEL	1590DA
18" (450mm)	GALVANIZED STEEL	1890DA
24" (600mm)	GALVANIZED STEEL	2490DA
30" (750mm)	GALVANIZED STEEL	3090DA
36" (900mm)	GALVANIZED STEEL	3690DA

*Grate is sized to fit flared end sections only.



METAL TRASH GUARD

FLARED END SECTIONS



PART #	PIPE SIZE	A	B(MAX)	H	L	W
1015NP	10 in (250 mm)	3.8 in (95 mm)	10.0 in (254 mm)	6.5 in (165 mm)	28.0 in (711 mm)	34.5 in (876 mm)
1215NP	12 & 15 (300 & 375mm)	6.5 in (165 mm)	10.0 in (254 mm)	6.5 in (165 mm)	25.0 in (635 mm)	29.0 in (737 mm)
1810NP	18 in (450 mm)	7.5 in (191 mm)	15.0 in (381 mm)	6.5 in (165 mm)	32.0 in (813 mm)	35.0 in (888 mm)
2410NP	24 in (600 mm)	7.5 in (191 mm)	18.0 in (457 mm)	6.5 in (165 mm)	36.0 in (914 mm)	45.0 in (1143 mm)
3015NP	30 in (750 mm)	7.5 in (191 mm)	12.0 in (305 mm)	8.6 in (218 mm)	58.0 in (1473 mm)	63.0 in (1600 mm)
3615NP	36 in (900 mm)	7.5 in (191 mm)	25.0 in (635 mm)	8.6 in (218 mm)	58.0 in (1473 mm)	63.0 in (1600 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

ADS ADVANCED DRAINAGE SYSTEMS, INC.

DRAWING #	6070
DRAWN BY	JCB 01.17.07
APPROVED BY	JCB 06.28.07
REVISIONS	TJR 6/7/2016

3 FLARED END SECTION AND TRASH GAURD
SCALE: NTS

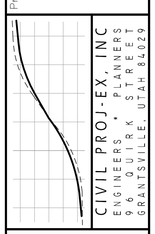
No.	Revisions	By	Date
1	City Public Works requires 4500 PSI concrete for Public Way Improvements	BYB	8.12.21

FINAL INFRASTRUCTURE

Project Number 21-45015
Designed By BYB
Drawn By BYB
Date Issued 2022.08.29

WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY,UTAH

Project Name:



CIVIL PROJ-EX, INC
ENGINEERS * PLANNERS
96 QUIRK STREET
GRANTSVILLE UTAH 8429

PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
STATE OF UTAH
Barry V. Bunderson
2022.08.29

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Sheet Name:

C-531

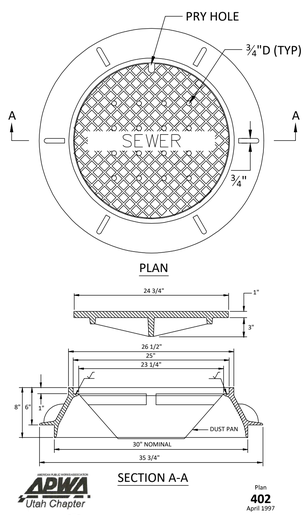
CIVIL SEWER DETAILS

30" Frame and cover

1. GENERAL
   A. The frame and cover fits the manhole in Plan 411

2. PRODUCTS
   A. Castings: Grey iron class 35 minimum, ASTM A48, coated with asphalt based paint or better (except on machined surfaces).
      1. Cast the heat number on the frame and cover.
      2. Give the frame and cover a machine finish so the cover will not rock.
      3. √ designates machined surface.
      4. Cast the words "SEWER" on the cover in upper case flush with the surface finish.

3. EXECUTION
   A. Except in paved streets, provide locking manhole covers in easements, alleys, parking lots, and all other places. Drill and tap two holes to a depth of 1-inch at 90 degrees to pry hole and install 3/4 x 3/4 -inch allen socket set screws.



Plan
402
April 1997

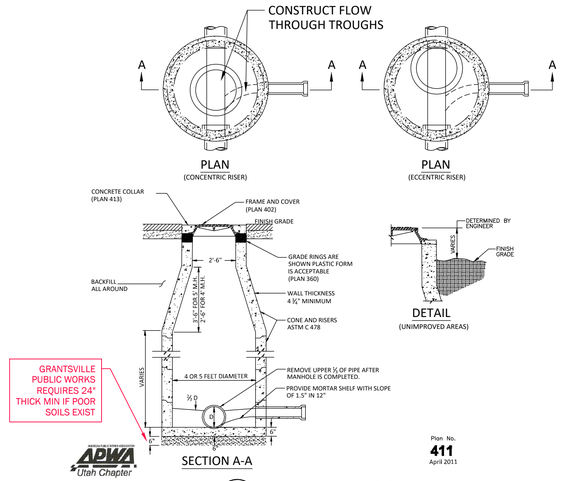
1 ***30" Frame and cover***
SCALE: NTS

Sanitary sewer manhole

1. GENERAL
   A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the manhole.
   B. Manhole size.
      1) Diameter is 4 feet: For sewers under 12" diameter.
      2) Diameter is 5 feet: For sewers 12" and larger, or when 3 or more pipes intersect the manhole.

2. PRODUCTS
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER'fs permission.
   B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
   C. Concrete: Class 4000, APWA Section 03 30 04.
   D. Riser and Reducing Riser: ASTM C478.
   E. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615.
   F. Grout: 2 parts sand to 1 part cement mortar, ASTM C1329.
   G. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR'fs choice, APWA Section 31 05 19.

3. EXECUTION
   A. Foundation Stabilization: Get ENGINEER'fs permission to use a sewer rock or a granular backfill borrow in a geotextile wrap to stabilize an unstable foundation.
   B. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   C. Invert Cover. During construction, place invert covers over the top of pipe in manholes that currently convey sewerage. See Plan 412.
   D. Pipe Connections: Grout around all pipe openings.
   E. Pipe Seal: Install rubber-based pipe seals on all plastic pipes when connecting plastic pipes to manholes. Hold water-stop in place with stainless steel bands.
   F. Joints: Place flexible gasket-type sealant in all riser joints. Finish with grout.
   G. Adjustment: If the required manhole adjustment is more than 1'-0"fi, remove the cone and grade rings and adjust the manhole elevation with the appropriate manhole section, the cone section, and the grade rings or plastic form to make frame and lid match finish grade.
   H. Finish: Provide smooth and neat finishes on interior of cones, shafts, and rings. Imperfect moldings or honeycombs will not be accepted.
   I. Backfill: Provide backfill against the manhole shaft. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.



GRANTSVILLE PUBLIC WORKS REQUIRES 24" THICK MIN IF POOR SOILS EXIST

Plan No.
411
April 2011

2 ***Sanitary sewer manhole***
SCALE: NTS

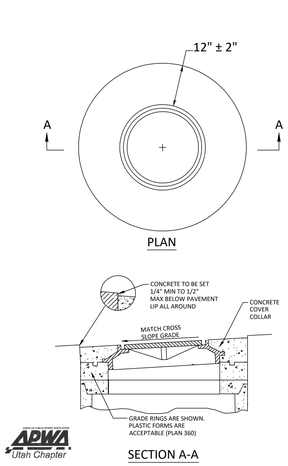
Concrete for all surface improvements in the Public Way including but not limited to; sidewalk, driveway entrances, pedestrian ramps, curb and gutter, water ways, manhole, vault and valve collars, and any other cast in place surface concrete features shall be constructed with minimum **4,500 psi** concrete per Grantsville City Public Works.

Cover collar for sanitary sewer manhole

1. GENERAL
   A. In a pavement surface, the concrete will support the frame under traffic loadings.

2. PRODUCTS
   A. Concrete: Class 4000, APWA Section 03 30 04
   B. Concrete Curing Agent: Type ID Class A (clear with fugitive dye), membrane forming compound, APWA Section 03 39 00.

3. EXECUTION
   A. Pavement Preparation: Provide a neat vertical and concentric joint between the concrete collar and the bituminous pavement surface. Clean edges of all dirt, oil, and loose debris.
   B. Concrete Placement: Fill the annular space around the frame and cover casting with concrete. Apply a broom finish. Apply a curing agent.



Plan No.
413
September 2001

3 ***Cover collar for sanitary sewer manhole***
SCALE: NTS

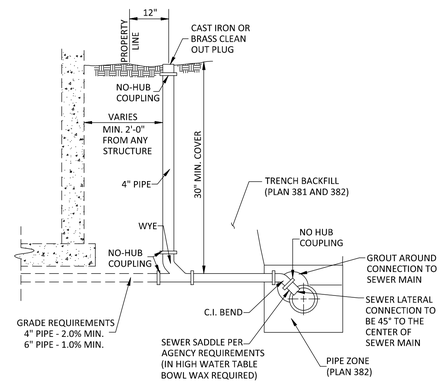
GRANTSVILLE CITY PUBLIC WORKS REQUIRES A-1-A MATERIAL TRENCH BACKFILL ABOVE PIPE OR CONDUIT BEDDING ZONES WITHIN THE PUBLIC RIGHT OF WAY

Sewer lateral connection

1. GENERAL
   A. Before installation, secure acceptance by ENGINEER for all pipe, fittings, and couplings to be used.
   B. Before backfilling, secure inspection of installation by ENGINEER. Give at least 24 hours notice.
   C. Verify if CONTRACTOR or agency is to install the wye.

2. PRODUCTS
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
   C. Provide agency approved wye or tee with appropriate donut.
   D. Stainless steel straps required.

3. EXECUTION
   A. Tape wrap pipe as required by soil conditions.
   B. Remove core plug from sewer main. Do not break into sewer main to make connection.
   C. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.



Plan No.
431
January 2011

4 ***Sewer lateral connection***
SCALE: NTS

FINAL INFRASTRUCTURE

Project Number	Designed By	Date Issued
21-45015	BVB	2022.08.29
	Drawn By	
	BVB	

No.	Revisions	By	Date
1	City Public Works requires 4500 PSI concrete for Public Way Improvements	BVB	8.12.21

WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY, UTAH

Project Name:

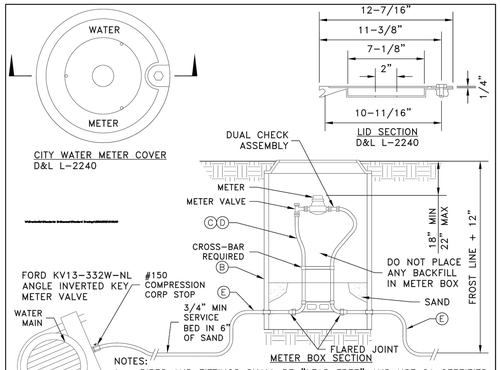
CIVIL PROJ-EX, INC
ENGINEERS * PLANNERS
96 QUIRK STREET
GRANTSVILLE UTAH 84029

PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
Barry V. Bunderson
2022.08.29
STATE OF UTAH
9/13/2022 1:48:37 PM

Sheet Name:
C-541

CIVIL WATER DETAILS

GRANTSVILLE CITY PUBLIC WORKS REQUIRES A-1-A MATERIAL TRENCH BACKFILL ABOVE PIPE OR CONDUIT BEDDING ZONES WITHIN THE PUBLIC RIGHT OF WAY



NOTES:
1- PIPES AND FITTINGS SHALL BE "LEAD FREE" AND NSF 61 CERTIFIED.
2- INSTALL TRACER WIRE FROM MAIN CONNECTION THROUGH METER PIT WITH 30 FEET EXCESS TO EXTEND TO DWELLING.
3- SERVICE CONNECTIONS AND METER ASSEMBLIES LARGER THAN 1-INCH NEED TO COMPLY WITH THE LATEST APWA STANDARD DETAILS.
4- INSTALL SERVICE LATERALS AND METERS WITHIN 5 FEET OF LOT LINES ONE ON EACH SIDE OF COMMON LOT LINE (ALTERNATE WITH SECONDARY WATER).
5- STAMP OR PIN GUTTER LIP AND TOP OF CURB WITH A "W" IN TWO PLACES, NEAR CURB LIP AND TOP OF CURB.

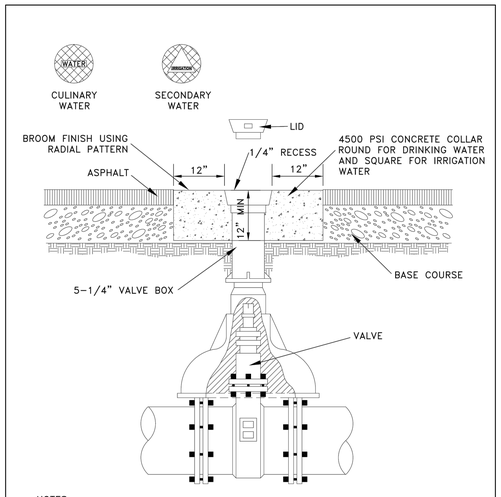
LEGEND

No	*	ITEM	DESCRIPTION
(A)		FRAME AND COVER	CAST IRON COVER (GRASS) DUCTILE IRON COVER (DRIVEWAY)
(B)		METER BOX (21" DIAMETER) (30" TO 36" DEEP)	WHITE CORRUGATED PE
(C)		3/4" METER YOKE	DUAL CHECK ASSEMBLY REQUIRED
(D)		1" METER YOKE	OPTIONAL BACKFLOW PROTECTION PER AGENCY REQUIREMENTS
(E)		3/4" AND 1" SERVICE LINE	HDPE IPS SDR 11

REV 07-22

GRANTSVILLE CITY
SERVICE CONNECTION & METER ASSEMBLY

1 SCALE: NTS



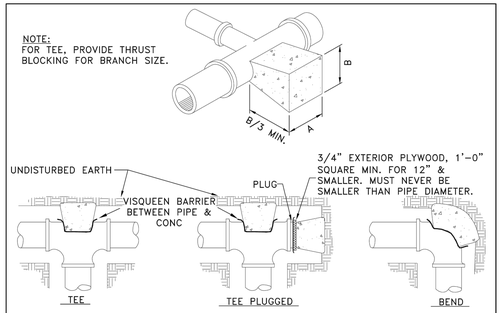
NOTES:
1. RAISE VALVE BOX AND PLACE CONCRETE COLLAR AFTER PAVING OPERATION IS COMPLETED.
2. ALL PIPES, FITTINGS & APPURTENANCES SHALL BE NSF-61 CERTIFIED.
3. BURIED GATE VALVES SHALL BE USED FOR LINES 10-INCHES AND SMALLER. BURIED BUTTERFLY VALVES SHALL BE USED FOR LINES 12-INCHES AND LARGER.
4. ISOLATION VALVES SHALL BE PROVIDED AT NO MORE THAN 500-FOOT INTERVALS IN COMMERCIAL DISTRICTS AND AT NOT MORE THAN ONE BLOCK OR 800-FOOT INTERVALS IN OTHER DISTRICTS, [UAC 309-550-5(8)].

REV. 01-22

GRANTSVILLE CITY
VALVE BOX COLLAR DETAIL

2 SCALE: NTS

GRANTSVILLE CITY PUBLIC WORKS REQUIRES A-1-A MATERIAL TRENCH BACKFILL ABOVE PIPE OR CONDUIT BEDDING ZONES WITHIN THE PUBLIC RIGHT OF WAY

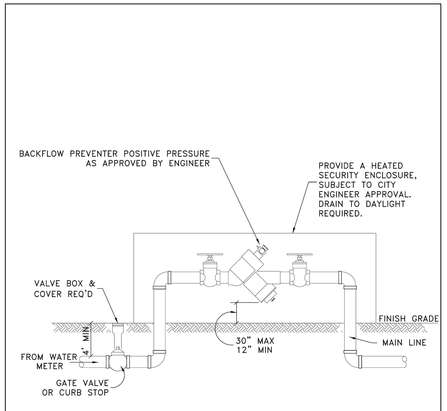


DIMENSIONS FOR THRUST BLOCKING								
FITTING SIZES	TEES & PLUGS		90° BENDS		45° BENDS & "Y"S		22 1/2° BENDS	
	A	B	A	B	A	B	A	B
4"	1'-6"	1'-6"	1'-6"	1'-9"	1'-3"	0'-6"	1'-0"	0'-6"
6"	2'-0"	1'-0"	2'-0"	2'-0"	1'-3"	1'-6"	1'-0"	1'-5"
8"	2'-0"	1'-6"	2'-3"	2'-3"	1'-8"	1'-8"	1'-0"	1'-3"
10"	2'-6"	2'-3"	2'-9"	2'-10"	2'-3"	1'-10"	1'-3"	2'-0"
12"	3'-0"	2'-9"	3'-6"	3'-3"	2'-6"	2'-4"	2'-0"	1'-6"
14"	3'-5"	3'-0"	4'-0"	3'-8"	3'-6"	2'-4"	2'-0"	2'-3"
16"	4'-0"	3'-6"	5'-0"	4'-0"	3'-6"	3'-0"	2'-6"	2'-3"
18"	4'-0"	4'-3"	6'-0"	4'-0"	4'-0"	3'-3"	2'-9"	2'-6"
20"	5'-0"	4'-3"	6'-0"	5'-0"	4'-3"	4'-0"	3'-0"	2'-9"
24"	6'-0"	5'-3"	8'-0"	5'-6"	6'-0"	4'-0"	4'-0"	3'-0"

NOTES:
1. THIS TABLE IS BASED ON 200 P.S.I. MAIN PRESSURE AND 2000 P.S.F. SOIL BEARING PRESSURE. ADJUST BEARING AREAS IN ACCORDANCE WITH SOIL CONDITIONS AND PRESSURES ENCOUNTERED.
2. USE POLYETHYLENE ENCASEMENT BETWEEN CONCRETE AND PIPE.
3. REFER TO CONCRETE STANDARD SPECIFICATIONS.
4. THE "THRUST BLOCKING DETAILS" IN NO WAY LIMITS THE LOCATION OR SIZE OF ADDITIONAL BLOCKING WHEN SO WARRANTED OR REQUIRED BY THE ENGINEER.
5. THRUST BLOCKS NEED TO BE INSPECTED BY CITY PRIOR TO BACKFILL.

GRANTSVILLE CITY
THRUST BLOCK DETAIL

3 SCALE: NTS

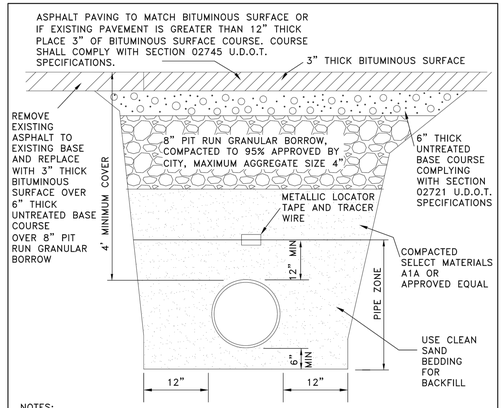


NOTES:
1. ALL PIPES, FITTING & APPURTENANCES SHALL BE NSF-61 CERTIFIED.
2. ALL NEW OR REPLACED WATER LINES SHALL BE FLUSHED & DISINFECTED PER AWWA STANDARD C651 LATEST EDITION.

GRANTSVILLE CITY
TYPICAL BACKFLOW PREVENTER INSTALLATION

4 SCALE: NTS

GRANTSVILLE CITY PUBLIC WORKS REQUIRES A-1-A MATERIAL TRENCH BACKFILL ABOVE PIPE OR CONDUIT BEDDING ZONES WITHIN THE PUBLIC RIGHT OF WAY



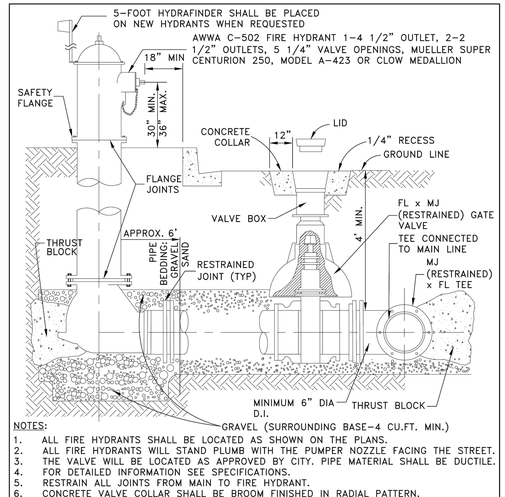
NOTES:
1. PIPES & FITTINGS SHALL BE LEAD FREE.
2. ASBESTOS CEMENT PIPE SHALL NOT BE ALLOWED.
3. WATER MAINS & SEWER LINES SHALL NOT BE INSTALLED IN THE SAME TRENCH.
4. ALL PIPES, FITTINGS & APPURTENANCES SHALL BE NSF-61 CERTIFIED.
5. ALL NEW OR REPLACED WATER LINES SHALL BE FLUSHED & DISINFECTED PER AWWA STANDARD C651 LATEST EDITION.
6. MATERIAL THICKNESS MAY CHANGE AS DIRECTED BY THE CITY ENGINEER BASED UPON FINDINGS AND RECOMMENDATIONS IN GEOTECHNICAL REPORT.
7. FOR WATER METERS NOT CONNECTED TO FIRE HYDRANTS, THE MINIMUM LINE SIZE SHALL BE 4" IN DIAMETER, UNLESS THEY SERVE PICNIC SITES, PARKS, SEMI-DEVELOPED CAMPS, PRIMITIVE CAMPS, OR ROADWAY REST-STOPS. MINIMUM WATER MAIN SIZE SERVICING A FIRE HYDRANT LATERAL SHALL BE 8 INCHES IN DIAMETER UNLESS A HYDRAULIC ANALYSIS INDICATES THAT REQUIRED FLOW AND PRESSURES CAN BE MAINTAINED BY 6" LINES. [UAC R309-550-5(4)].
8. ALL TYPES OF INSTALLED PIPE SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA C600 (LATEST EDITION).
9. UNDER NO CIRCUMSTANCES SHALL THE PIPE OR ACCESSORIES BE DROPPED INTO THE TRENCH.

LOCATED IN SURFACED ROAD

REV. 01-22

GRANTSVILLE CITY
UTILITY TRENCH FOR WATER MAIN

5 SCALE: NTS

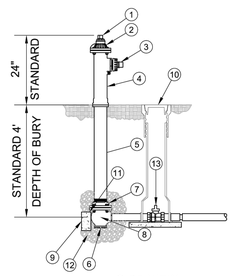


NOTES:
1. ALL FIRE HYDRANTS SHALL BE LOCATED AS SHOWN ON THE PLANS.
2. ALL FIRE HYDRANTS WILL STAND PLUMB WITH THE PUMPER NOZZLE FACING THE STREET.
3. THE VALVE WILL BE LOCATED AS APPROVED BY CITY. PIPE MATERIAL SHALL BE DUCTILE.
4. FOR DETAILED INFORMATION SEE SPECIFICATIONS.
5. RESTRAIN ALL JOINTS FROM MAIN TO FIRE HYDRANT.
6. CONCRETE VALVE COLLAR SHALL BE BROOM FINISHED IN RADIAL PATTERN.
7. ALL NEW OR REPLACED WATER LINES SHALL BE FLUSHED & DISINFECTED PER AWWA STANDARD C651 LATEST EDITION.
8. PROVIDE 3-FOOT CLEAR SPACE AROUND THE CIRCUMFERENCE OF FIRE HYDRANTS (IFC 507.5.5)
9. HYDRANT DRAINS SHALL NOT BE CONNECTED TO, OR LOCATED WITHIN, 10 FEET OF SANITARY SEWERS. WHERE POSSIBLE, HYDRANT DRAINS SHALL NOT BE LOCATED WITHIN 10 FEET OF STORM DRAINS. [UAC R309-550-6(5)(a)]
10. MINIMUM WATER MAIN SIZE SERVICING A FIRE HYDRANT LATERAL SHALL BE 8 INCHES IN DIAMETER UNLESS A HYDRAULIC ANALYSIS INDICATES THAT REQUIRED FLOW AND PRESSURES CAN BE MAINTAINED BY 6" LINES. [UAC R309-550-5(4)]

REV. 05-22

GRANTSVILLE CITY
FIRE HYDRANT ASSEMBLY

6 SCALE: NTS



GENERAL NOTES:
1. #2 ECLIPSE POST HYDRANT SHALL BE SELF-DRAINING, NON-FREEZING, COMPRESSION TYPE WITH 2-3/16" MAIN VALVE OPENING. INLET CONNECTION SHALL BE 2" FIP. OUTLET SHALL BE 2 1/2". STANDARD DEPTH OF BURY IS 4'.
2. ALL WATER FLOW SHALL PASS THRU A 3-1/2" FBE COATED STEEL PIPE AND CAST IRON TOP STOCK WATERWAY.
3. ALL WORKING PARTS SHALL BE SERVICEABLE FROM ABOVE GROUND WITH NO DIGGING OR REPLACEMENT NEEDED.
4. HYDRANT SHALL BE SET IN 4 CUBIC FEET OF CRUSHED STONE TO ALLOW FOR PROPER DRAINAGE OF HYDRANT.
5. THE #2 ECLIPSE POST HYDRANT AS MANUFACTURED BY THE KUPFERLE FOUNDRY, ST. LOUIS MO. 63102.

SIDE VIEW
SCALE: NTS

ITEM	ITEM / DESCRIPTION	NOTES
1	OPERATING SCREW	
2	TOP CAP	
3	SIDE CAP	
4	TOP STOCK	
5	3-1/2" FBE COATED STEEL PIPE	
6	DRAIN HOLE	
7	COUPLING	
8	INLET VALVE BODY	
9	UNDISTURBED EARTH	
10	VALVE BOX	
11	THRUST BLOCK	
12	CRUSHED ROCK	
13	HYDRANT SHUT-OFF VALVE	

REV	DATE	APPR	DESCRIPTION

SCALE: -

GRANTSVILLE CITY

ABOVE GRADE 2" BLOW-OFF INSTALLATION

SHEET 6-56

8 SCALE: NTS

No.	Revisions	By	Date
1	City Public Works requires 4500 PSI concrete for Public Way Improvements	BYB	8.12.21

FINAL INFRASTRUCTURE

Project Number 21-45015 | Designed By BYB | Date Issued 2022.09.29

Drawn By BYB

Project Name:

WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY,UTAH

CIVIL PROJ-EX, INC
ENGINEERS * PLANNERS
96 QUIRK STREET
GRANTSVILLE, UTAH 84029

PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
STATE OF UTAH
2022.08.29

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Sheet Name:

C-551

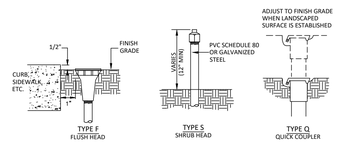
CIVIL IRRIGATION AND LANDSCAPING DETAILS

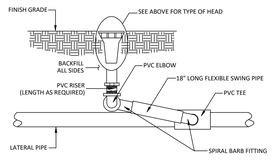
Stationary head

1. GENERAL
   A. Before backfilling around head, get ENGINEER's inspection of head installation.

2. PRODUCTS
   A. Heads: Plastic, or steel.

3. EXECUTION
   A. Adjust heads to final landscape grade and adjust throttle controls to obtain required coverage over final landscape grade.
   B. Keep flush heads 1/2-inch below edge of pavement surfaces and flush with surrounding sod or seeded areas.
   C. Compact backfill around heads to prevent settling.
   D. Cut sod around head to fit.





SECTION

APWA Utah Chapter

Plan **621** January 2006

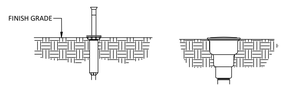
1 **Stationary head**
SCALE: NTS

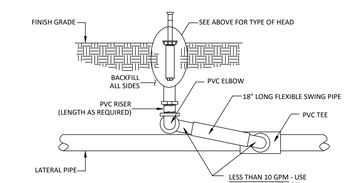
Pop-up head

1. GENERAL
   A. Before backfilling around head, get ENGINEER's inspection of head installation.

2. PRODUCTS
   A. Heads: Plastic, brass, or steel.

3. EXECUTION
   A. Adjust heads to final landscape grade and adjust throttle controls to obtain required coverage over final landscape grade.
   B. Keep flush heads 1/2-inch below edge of pavement surfaces and flush with surrounding sod or seeded areas.
   C. Compact backfill around heads to prevent settling.
   D. Cut sod around head to fit.





SECTION

APWA Utah Chapter

Plan **622** January 2006

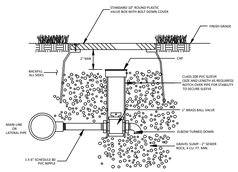
2 **Pop-up head**
SCALE: NTS

Drain valve

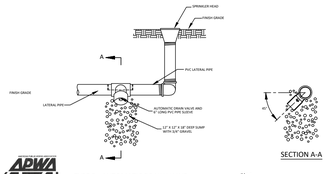
1. GENERAL
   A. Before backfilling around valve box, get ENGINEER's inspection of drain installation. System must be pressurized during inspection.

2. PRODUCTS (Not used)

3. EXECUTION
   A. Install backfill material around pipe and valve and compact to prevent settling.
   B. Provide positive drainage in entire system. Do not install automatic drain valves on the end of lateral pipes. Install upstream of the last head or at a low point to obtain full drainage.
   C. Deliver salvaged valves to ENGINEER unless specified otherwise.
   D. Locate all valves at all low points on lateral pipe.



TYPE A - MANUAL DRAIN VALVE



APWA Utah Chapter

TYPE B - AUTOMATIC DRAIN VALVE

Plan **632** April 2011

3 **Drain valve**
SCALE: NTS

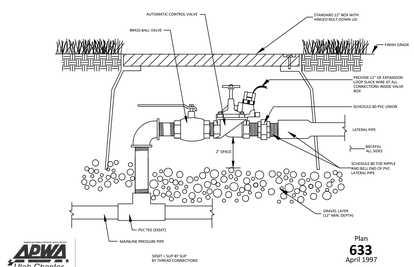
Control valve

1. GENERAL
   A. Before backfilling around valve box, get ENGINEER's inspection of drain installation. System must be pressurized during inspection.

2. PRODUCTS
   A. Backfill: APWA Section 31 05 13.
      1) Gravel with a maximum particle size 2-inches.
      2) Native soil

3. EXECUTION
   A. Install automatic controllers and wiring per manufacturer's recommendations.

NARRATIVE: USE SCHEDULE 80 THREADED PIPING



APWA Utah Chapter

Plan **633** April 1997

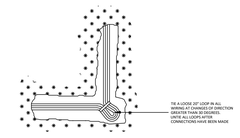
4 **Control valve**
SCALE: NTS

Wire runs for landscape irrigation

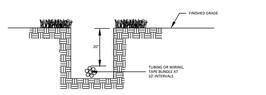
1. GENERAL
   A. Before backfilling, get ENGINEER'fs inspection of installation.

2. PRODUCTS
   A. Control Wire: UF-UL listed copper.
   B. Insulation: PVC for direct burial

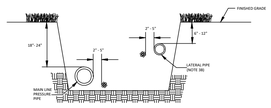
3. EXECUTION
   A. Backfill: Place backfill in trench. Water jetting is NOT allowed. Compact to 95- percent or greater relative to a standard proctor density, APWA Section 31 23 26.
   B. Lateral Pipe: Where lateral pipe runs parallel to a mainline (pressure) pipe, do not install over main line pipe.
   C. Control Wire: Provide 12-inches of expansion loop wire at each valve and every 100 feet of wire length. Use waterproof wire connectors at all splices.



PLAN VIEW



SECTION

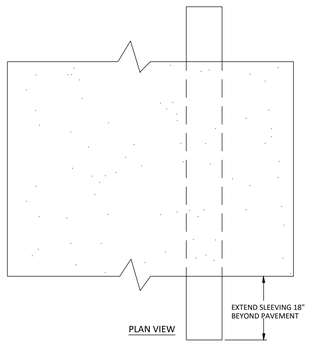


SECTION

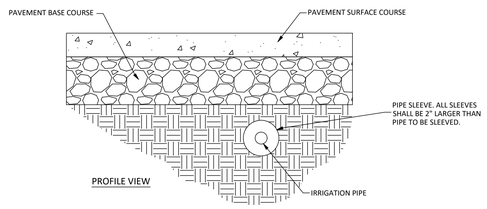
APWA Utah Chapter

Plan **651** April 2011

5 **Wire runs for landscape irrigation**
SCALE: NTS



PLAN VIEW



PROFILE VIEW

6 **Irrigation sleeve**
SCALE: NTS

Tree

1. GENERAL
   A. Definitions:
      1). Large Tree: Over 50 feet tall at maturity.
      2). Medium Tree: Between 30 and 50 feet tall at maturity.
      3). Small Tree: Up to 30 feet tall at maturity.
      4). Park Strip: Area between the edge of road, (back of curb) and the sidewalk.
      5). Tree Size: Average caliper diameter measured 6" above the root ball.

2. PRODUCTS
   A. Tree:

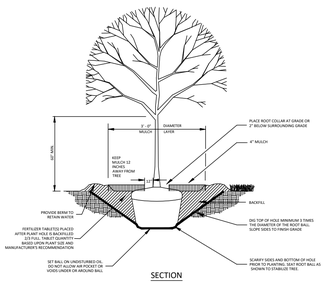
Size	Width of Planting Area
Large	8 feet or larger
Medium	5 feet or larger
Small	3 feet or larger

   B. Mulch: APWA Section 32 93 43

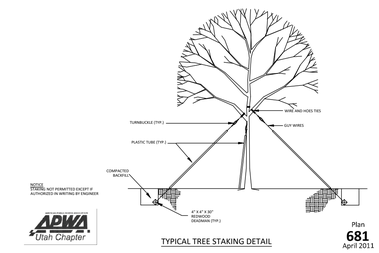
3. EXECUTION
   A. Planting Location:

Distance from	Distance
Fire hydrant, water meter, utility box, residential driveway alley, property line, mailbox, or building	10 feet
Non-traffic control signing (no parking, children at play, etc.)	15 feet
Small tree, utility pole, light pole, or unregulated intersection	20 feet
Tree on private property	25 feet
Medium tree, commercial driveway, or traffic control signing	30 feet
Large tree, or intersection with traffic control lights	40 feet

   B. Root ball:
      1). Prune circling roots, protruding root stubs, and fibrous matted roots flush with the root ball. Handle root ball with care. Minimize crumbling, cracking, and splitting.
      2). After placing the tree in the hole remove wire and burlap if stability of the root ball allows. If not, remove only the top one or two rows of wire and an equal amount of burlap. Leave no twine or burlap on or near the surface of the ball or around the trunk. Cut vertical slits in burlap that remains. Do not fold burlap into the hole.
   C. Containers: Slide root balls out of containers. Do not pull on the trunk. If is too large, cut the container off after the tree is placed in the planting site.
   D. Backfill and Watering:
      1). Use soil removed from the hole as backfill. If soil is a base course material, mix with 1/3 organic mulch. Mix thoroughly.
      2). Compact backfill in 6"h layers. Water. Allow water to soak deeply into the soil. Make sure ball gets thoroughly wet.



SECTION



NOTICE
STAKING NOT PERMITTED EXCEPT IF AUTHORIZED IN WRITING BY ENGINEER

APWA Utah Chapter

TYPICAL TREE STAKING DETAIL

Plan **681** April 2011

1 **Tree**
SCALE: NTS

NO.	Revisions	By	Date
1	City Public Works requires 4500 PSI concrete for Public Way Improvements	BYB	8.12.21

FINAL INFRASTRUCTURE

Project Number	Designed By	Date Issued
21-45015	BYB	2022.09.29
	Drawn By	
	BYB	

WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY,UTAH

Project Name:

CIVIL PROJ-EX, INC
ENGINEERS * PLANNERS
96 GUSTAVE STREET
GRANTSVILLE, UTAH 429

PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
Barry V. Bunderson
2022.08.29
STATE OF UTH

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Sheet Name:

C-561

CIVIL DRY UTILITY DETAILS

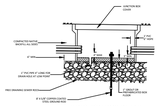
Trench for buried electrical conduit

1. GENERAL
   A. The drawing is a typical arrangement. It shows installation in a landscaped area. The installation is similar under concrete flatwork in the park strip.

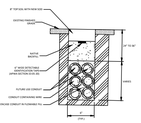
2. PRODUCTS
   A. Base Course: Untreated base course, APWA Section 32 11 23. Maximum particle size 2-inches. Do not use gravel as a base course without ENGINEER's permission.
   B. Backfill: Bedding sand, backfill borrow, or topsoil, APWA Section 31 05 13. Maximum particle size 2-inches.
   C. Detectable Identification Tape: Permanent red color, continuously printed, magnetic, intended for direct-burial service, not less than 6-inches wide by 4 mils thick. The tape shall read "CAUTION: BURIED INSTALLATION BELOW".
   D. Bolts, Nuts, Washers, Accessories: Stainless steel, APWA Section 05 05 23.
   E. PVC Conduit: APWA Section 33 05 07.

3. EXECUTION
   A. Conduit:
      1) Install conduit through sides of junction box. Seal all conduit holes using a rubber-based sleeve gasket and expanding foam.
      2) In addition to circuit wires, provide all conduits with a 700 pound flat braided nylon pull wire.
      3) Seal ends of each conduit run with a sealing compound, CONTRACTOR's choice.
   B. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 90 percent or greater relative to a standard proctor density, APWA Section 31 23 26. Water jetting is NOT allowed.
   C. Ground: Use exothermic weld connections when making connection to the ground rod.
   D. Landscaped Surface Restoration: Rake to match existing grade. Replace vegetation to match pre-construction conditions. Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements.

PARK STRIP



JUNCTION BOX DETAIL



TRENCH DETAIL

Plan
732.1
September 2011

Trench for buried electrical conduit

SCALE: NTS

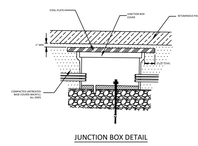
Trench for buried electrical conduit

1. GENERAL
   A. The drawing is a typical arrangement. It shows installation requirements under roadway pavement and in landscaped areas.
   B. Additional pavement removal to a painted lane strip, a lip of gutter, an existing pavement patch, or an edge of existing pavement is required if such street feature is within 2-feet of the second saw-cut.

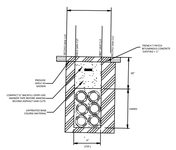
2. PRODUCTS
   A. Bedding: Sand, APWA Section 31 05 13.
   B. Backfill: Native soil, APWA Section 31 05 13. Maximum particle size 2-inches.
   C. Detectable Identification Tape: Permanent red color, continuously printed, magnetic, intended for direct-burial service, not less than 6-inches wide by 4 mils thick. The tape shall read "CAUTION: BURIED INSTALLATION BELOW".
   D. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. Use a fill that flows easily and vibration is not required.
   E. Bituminous Concrete: APWA Section 32 12 05.
      1) Warm weather patch – AC-20-DM-1/2, . Unless indicated otherwise.
      2) Cold weather patch – modified MC-250-FM-1, APWA Section 33 05 25.
   F. PVC Conduit: APWA Section 33 05 07.

3. EXECUTION
   A. Conduit:
      1) Install conduit through sides of junction box. Seal all conduit holes using a rubber-based sleeve gasket and expanding foam.
      2) In addition to circuit wires, provide all conduits with a 700 pound flat braided nylon pull wire.
      3) Seal ends of each conduit run with a sealing compound, CONTRACTOR's choice.
   B. Base Course and Backfill Placement:
      1) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26. Water jetting is NOT allowed.
      2) Use flowable fill in excavations that are less than 8"h wide. Before placing aggregate or pavement over flowable fill, cure fill to initial set.
   C. Ground: Use exothermic weld connections when making connection to the ground rod.
   D. Before Surface Restoration.
      1) Do not install bituminous concrete or Portland cement concrete surfacing until trench compaction is accepted by ENGINEER.
      2) Provide tack coat full coverage on all vertical surfaces and surface of concrete substrate.
   E. Roadway Pavement Restoration: Plan 255, 256, or 261 as applicable.

ROADWAY



JUNCTION BOX DETAIL



TRENCH DETAIL

Plan
732.2
September 2011

Trench for buried electrical conduit

SCALE: NTS

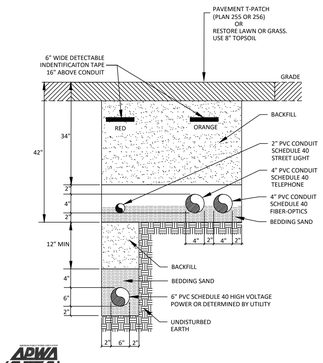
Joint use trench

1. GENERAL
   A. The drawing is a typical arrangement. It applies to the conduit zone and backfilling the trench above the conduit zone.

2. PRODUCTS
   A. Base Course: Sand, APWA Section 31 05 13.
   B. Backfill: Native soil, APWA Section 31 05 13. Maximum particle size 2-inches.
   C. Sewer Rock or Pea Gravel: NOT ALLOWED as backfill in any part of the trench.
   D. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
   E. Detectable Identification Tape: Permanent color as indicated, continuous-printed, magnetic, intended for direct-burial service, not less than 6-inches wide by 4 mils thick. The tape shall read "CAUTION: BURIED INSTALLATION BELOW".
   F. Conduit: PVC, APWA Section 33 05 07.

3. EXECUTION
   A. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26. Water jetting is NOT allowed.
   B. Flowable Fill: Place controlled low strength material. Cure the fill before placing surface restorations.
   C. Surface Restoration. Do not install bituminous concrete or Portland cement concrete surfacing until trench compaction is accepted by ENGINEER.
   D. Landscaped Restoration: Rake trench backfill to match existing grade. Compact backfill to 90 percent relative to a standard proctor density, APWA Section 31 23 26. Replace vegetation to match pre-construction conditions. Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements.
   E. Roadway Pavement Restoration: Plans No. 255, 256, or 261.

NARRATIVE: THIS IS A TYPICAL EXAMPLE. INSTALLATION VARIES ACCORDING TO THE SERVICE PROVIDED.



Plan No.
733
September 2011

Joint use trench

SCALE: NTS

GRANTSVILLE CITY PUBLIC WORKS REQUIRES A-1-A MATERIAL TRENCH BACKFILL ABOVE PIPE OR CONDUIT BEDDING ZONES WITHIN THE PUBLIC RIGHT OF WAY

No.	Revisions	By	Date
1	City Public Works requires 4500 PSI concrete for Public Way Improvements	BVB	8.12.21

FINAL INFRASTRUCTURE

Project Number 21-45015

Designed By BVB

Drawn By BVB

Date Issued 2022.08.29

WILLOW FIELDS P.U.D.
GRANTSVILLE,
TOOELE COUNTY, UTAH

Project Name:

CIVIL PROJ-EX, INC
ENGINEERS * PLANNERS
96 QUIRK STREET
GRANTSVILLE UTAH 8429

PROFESSIONAL ENGINEER
7224167
BARRY V. BUNDERSON
Barry V. Bunderson
2022.08.29
STATE OF UTAH

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Sheet Name:

C-571

AGENDA ITEM #5

Consideration of Resolution 2022-60 approving the Contract with Legion Technology

GRANTSVILLE CITY
RESOLUTION NO. 2022-60

A RESOLUTION APPROVING A CONTRACT WITH LEGION TECHNOLOGY TO PROVIDE INFORMATION TECHNOLOGY (IT) SERVICES TO THE CITY

Be it enacted and ordained by the City Council of Grantsville City, Utah as follows:

WHEREAS, the Grantsville City requires IT services at each of its offices, including City Hall, the Library, the Law & Justice Center, the Fire Department, the Public Works building, and all other City owned structures; and

WHEREAS, said services including maintenance and protection of all the City's physical equipment, software, and intellectual property; and

WHEREAS, Legion Technology has been providing said services to the City for many years and the City believes it is in the best position to continue to provide the services; and

WHEREAS, the City staff recommends the City enter into the attached contract with Legion Technology to continue to provide the required services; and

WHEREAS, the City Council hereby finds that entering into and executing the attached contract with Legion Technology is beneficial to the City and its residents.

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF GRANTSVILLE CITY, STATE OF UTAH, AS FOLLOWS:

Section 1. IT Contract. The City of Grantsville hereby approves the Contract with Legion Technology attached as Exhibit "A".

Section 2. Severability Clause. If any part or provision of this Resolution is held invalid or unenforceable, such invalidity or unenforceability shall not affect any other portion of this Resolution and all provisions, clauses and words of this Resolution shall be severable.

ADOPTED AND PASSED BY THE CITY COUNCIL OF GRANTSVILLE CITY, THIS 5th DAY OF OCTOBER, 2022.

BY ORDER OF THE
GRANTSVILLE CITY COUNCIL

_____
By Mayor Neil Critchlow

ATTEST

_____
Braydee Baugh, City Recorder

Exhibit "A"

AGREEMENT FOR
COMPUTER SUPPORT SERVICES
FOR THE GRANTSVILLE LIBRARY

THIS COMPUTER SUPPORT AGREEMENT dated this 15th day of February, 2013, is between the undersigned Contractor (hereinafter "Contractor") and **GRANTSVILLE CITY LIBRARY** (Library), 429 East Main, Grantsville, Utah 84029. This agreement sets forth the terms and conditions whereby Contractor will provide computer support and information technology (IT) services to City.

RECITALS

The Library is in need of computer support and information technology services but does not have employees qualified to perform such services and therefore desires to contract with Contractor for the same. Contractor is capable and willing to provide such services as described in this agreement to assist City.

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

SECTION I - COMPUTER SUPPORT AND INFORMATION TECHNOLOGY SERVICES: Contractor agrees that it will at all times faithfully, industrially, and to the best of its ability, experience, and talents, perform all of the duties that may be associated with the services set forth herein and shall perform said services to the reasonable satisfaction of the Library. Contractor shall be on-site at Library, a minimum of once per week to perform services under this agreement. Contractor shall not install any software without the proper licensing, nor perform any services in conflict with City or Contractor policies.

Contractor agrees to provide computer support and information technology services for the Library which services shall include but shall not be limited to the following:

A. Support and maintain approximately 26 computers, four servers and accompanying network infrastructure.

B. With City approval, order on state bid or with other approved vendors, stage, and install new software, computers, servers and related equipment as needed.

C. Support and maintain application upgrades, problem resolution, licensing management and training as needed.

D. Provide server maintenance outside of business hours (8am-6pm).

E. Initially build / set-up of computer and network systems for Grantsville Public Library.

F. Include research design and set-up of the following: Network infrastructure, Wireless Network, 4 Windows Servers, up to 25 Desktop Computers to be used by the library staff and the public.

F. Support and maintain the sever, firewall, ISP, Vault Tape Backup, backup exec, anti-virus, and Windows.

SECTION II - FEES: City agrees to pay Contractor $669.00 (six hundred sixty nine dollars) per month as compensation for the above stated computer support and information technology services. All hardware and software required by the Library shall remain the financial responsibility of City. Compensation for a partial month worked under this agreement shall be prorated on a daily basis using a 30 day month.

City agrees to pay Contractor $2,500.00 (two thousand five hundred dollars) as compensation for the above stated one time set-up fee.

SECTION III - TERM AND TERMINATION: This agreement shall take effect upon February _____, 2013 and shall remain in full force and effect until terminated. This agreement shall immediately terminate upon the happening of any of the following events:

A. A breach of contract by either party is grounds for termination immediately, if such breach is not remedied after fifteen (15) days written notice to the defaulting party.

B. Either party may terminate this agreement without penalty, upon thirty (30) day written notice for which no reason need be given.

SECTION IV - CONFIDENTIAL INFORMATION: In order for the City reasonably to protect its interests against the inappropriate or unlawful use of any of the City's confidential information, Contractor agrees that it, including its employees agents or associates will not at any time communicate or disclose to any person or use for Contractor's benefit any information, observations, data, written materials, records and documents or other information concerning the business or affairs of the City (including without limitation, customer lists or mailing lists) or processes, equipment or products of the City (all of the foregoing are hereinafter referred to as "Confidential Information"). It is understood, however, that the obligations of this shall not apply in the event and to the extent that Confidential Information is in the public domain other than as a result of Contractor's act or omission. Contractor agrees that the Confidential Information is the sole property of the City, even if Contractor assisted in acquiring or developing that Confidential Information. Contractor acknowledges that all confidential information, including any originals and copies, whether in hardcopy or electronic form, shall at all times remain the property of the City and shall not be copied, published or distributed without the express written consent of the City.

SECTION V- INDEMNIFICATION: Each party shall indemnify and hold harmless the other party, its officers, agents, and employees from and against all claims, lawsuits, damage, injury, or liability claims however caused by said party, its agents, or employees or clients.

SECTION VI - INDEPENDENT RELATIONSHIP. Nothing herein shall be deemed to subject Contractor to the supervision or control of the City or its agents, or employees, that would interfere or be inconsistent with the traditional professional responsibilities of Contractor to comply with the provisions of State Law. As an independent contractor, Contractor shall be responsible for its own professional expenses, such as license fees, association dues, continuing education and similar expenses, except as provided for herein. No relationship of employer and employee is created by this agreement, it being understood that Contractor will act hereunder as an independent entity and Contractor shall have no claim, under this agreement or otherwise, against the City for wages, salary, vacation pay, sick leave, retirement benefits, Social Security payments, Worker's Compensation, disability or unemployment insurance or benefits or employee benefits of any kind. Contractor shall be free to provide its services to any other entity during the term of this agreement, proved that such provision of services does not create a conflict of interest or be contrary to the interests of the City..

SECTION VII - MISCELLANEOUS.

A. Exclusive Terms. Neither party shall be bound to any situation or provision exclusive of the terms of this written agreement, which together with any amendments adopted as herein stated shall encompass the entire agreement, and no other agreement shall exist exclusive of this agreement.

B. Waiver. Any waiver of any of the terms and conditions hereof shall not be

construed as a general waiver by either party and the waiving party shall be free to reinstate such part or clause with or without notice to the other party.

C. Severability. Should any court of competent jurisdiction determine that any clause or section of this agreement be illegal, the remaining clauses or sections shall remain in full force and effect.

D. Law Jurisdiction. This agreement is drawn to be effective in, and shall be construed in accordance with the laws of the State of Utah. Any legal action to enforce or construe this agreement shall be initiated in the Third District Court in and for the Tooele County, State of Utah.

E. Modification. Any modification of this agreement or additional obligation assumed by either party in connection with this agreement shall be binding only if evidenced by writing signed by each party or an authorized representative of each party.

CITY OF GRANTSVILLE:

BRENT K. MARSHALL, Mayor

CONTRACTOR

Authorized Agent

ATTEST:

CHRISTINE WEBB, City Recorder

(SEAL)

APPROVED AS TO FORM:

Joel K. Linares
Grantsville City Attorney

December 1, 2009

AGREEMENT FOR COMPUTER SUPPORT SERVICES FOR GRANTSVILLE CITY, UTAH

THIS COMPUTER SUPPORT AGREEMENT dated this 3rd day of December, 2009, is between the undersigned Contractor (hereinafter "Contractor") and **GRANTSVILLE CITY**, 429 East Main, Grantsville, Utah 84029, a municipal corporation of the State of Utah (hereinafter "City"). This agreement sets forth the terms and conditions whereby Contractor will provide computer support and information technology (IT) services to City.

RECITALS

City is in need of computer support and information technology services but does not have employees qualified to perform such services and therefore desires to contract with Contractor for the same. Contractor is capable and willing to provide such services as described in this agreement to assist City.

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

SECTION I - COMPUTER SUPPORT AND INFORMATION TECHNOLOGY

SERVICES: Contractor agrees that it will at all times faithfully, industrially, and to the best of its ability, experience, and talents, perform all of the duties that may be associated with the services set forth herein and shall perform said services to the reasonable satisfaction of City. Contractor shall be on-site at City, a minimum of once per week to perform services under this agreement. Contractor shall not install any software without the proper licensing, nor perform

any services in conflict with City or Contractor policies.

Contractor agrees to provide computer support and information technology services for the City offices and departments located in Grantsville City, Utah which services shall include but shall not be limited to the following:

A. Support and maintain approximately 30 computers, four servers and accompanying network infrastructure.

B. With City approval, order on state bid or with other approved vendors, stage, and install new software, computers, servers and related equipment as needed.

C. Support and maintain application upgrades, problem resolution, licensing management and training as needed.

D. Develop a one time City website re-design and provide ongoing maintenance of City website.

E. Provide server maintenance outside of business hours (8am-6pm).

F. Support and maintain the City's Caselle software and CORIS software for the Court when installed.

G. Support and maintain the Microsoft Exchange Sever, CRIS, SQL 2000, SQL server 2003, Sonic Wall Firewall, Beehive Wireless for ISP, Overland Vault Tape Backup, Sympatec Backup Exec, Symantec Anti-Virus, Fatpot, and Windows Server 2003.

SECTION II - FEES: City agrees to pay Contractor $1395.00 per month as compensation for the above stated computer support and information technology services. All hardware and software required by the City shall remain the financial responsibility of City. Compensation for a partial month worked under this agreement shall be prorated on a daily basis

using a 30 day month.

SECTION III - TERM AND TERMINATION: This agreement shall take effect upon December 3, 2009 and shall remain in full force and effect until terminated. This agreement shall immediately terminate upon the happening of any of the following events:

A. A breach of contract by either party is grounds for termination immediately, if such breach is not remedied after fifteen (15) days written notice to the defaulting party.

B. Either party may terminate this agreement without penalty, upon thirty (30) day written notice for which no reason need be given.

SECTION IV - CONFIDENTIAL INFORMATION: In order for the City reasonably to protect its interests against the inappropriate or unlawful use of any of the City's confidential information, Contractor agrees that it, including its employees agents or associates will not at any time communicate or disclose to any person or use for Contractor's benefit any information, observations, data, written materials, records and documents or other information concerning the business or affairs of the City (including without limitation, customer lists or mailing lists) or processes, equipment or products of the City (all of the foregoing are hereinafter referred to as "Confidential Information"). It is understood, however, that the obligations of this shall not apply in the event and to the extent that Confidential Information is in the public domain other than as a result of Contractor's act or omission. Contractor agrees that the Confidential Information is the sole property of the City, even if Contractor assisted in acquiring or developing that Confidential Information. Contractor acknowledges that all confidential information, including any originals and copies, whether in hardcopy or electronic form, shall at all times remain the property of the City and shall not be copied, published or distributed without

the express written consent of the City.

SECTION V- INDEMNIFICATION: Each party shall indemnify and hold harmless the other party, its officers, agents, and employees from and against all claims, lawsuits, damage, injury, or liability claims however caused by said party, its agents, or employees or clients.

SECTION VI - INDEPENDENT RELATIONSHIP. Nothing herein shall be deemed to subject Contractor to the supervision or control of the City or its agents, or employees, that would interfere or be inconsistent with the traditional professional responsibilities of Contractor to comply with the provisions of State Law. As an independent contractor, Contractor shall be responsible for its own professional expenses, such as license fees, association dues, continuing education and similar expenses, except as provided for herein. No relationship of employer and employee is created by this agreement, it being understood that Contractor will act hereunder as an independent entity and Contractor shall have no claim, under this agreement or otherwise, against the City for wages, salary, vacation pay, sick leave, retirement benefits, Social Security payments, Worker's Compensation, disability or unemployment insurance or benefits or employee benefits of any kind. Contractor shall be free to provide its services to any other entity during the term of this agreement, proved that such provision of services does not create a conflict of interest or be contrary to the interests of the City..

SECTION VII - MISCELLANEOUS.

A. Exclusive Terms. Neither party shall be bound to any situation or provision exclusive of the terms of this written agreement, which together with any amendments adopted as herein stated shall encompass the entire agreement, and no other agreement shall exist exclusive

of this agreement.

B. Waiver. Any waiver of any of the terms and conditions hereof shall not be construed as a general waiver by either party and the waiving party shall be free to reinstate such part or clause with or without notice to the other party.

C. Severability. Should any court of competent jurisdiction determine that any clause or section of this agreement be illegal, the remaining clauses or sections shall remain in full force and effect.

D. Law Jurisdiction. This agreement is drawn to be effective in, and shall be construed in accordance with the laws of the State of Utah. Any legal action to enforce or construe this agreement shall be initiated in the Third District Court in and for the Tooele County, State of Utah.

E. Modification. Any modification of this agreement or additional obligation assumed by either party in connection with this agreement shall be binding only if evidenced by writing signed by each party or an authorized representative of each party.

CITY OF GRANTSVILLE:

_____
C. BYRON ANDERSON, Mayor

CONTRACTOR

_____
Dean Jorgensen
Authorized Agent

ATTEST:

_____
RACHEL WRIGHT, City Recorder

(S E A L)

APPROVED AS TO FORM:

_____
Ronald L. Elton
Grantsville City Attorney

AGENDA ITEM #6

Discussion regarding the Interlocal Agreement with Tooele County Entities

AGENDA ITEM #7

Council Reports

AGENDA ITEM #8

Closed Session (Imminent Litigation, Personnel, Property)

AGENDA ITEM #9

Adjourn