

**CITY OF SOUTH JORDAN**  
**PLANNING COMMISSION MEETING AGENDA**  
**CITY HALL**  
**TUESDAY, JANUARY 24, 2023 at 6:30 PM**



Notice is hereby given that the South Jordan City Planning Commission will hold a Planning Commission Meeting on Tuesday, January 24, 2023, in the City Council Chambers, located at 1600 W. Towne Center Drive, South Jordan, Utah with an electronic option via Zoom phone and video conferencing. Persons with disabilities who may need assistance should contact the City Recorder at least 24 hours prior to this meeting.

In addition to in-person attendance, individuals may join via phone or video, using Zoom. Note, attendees joining virtually may make public comments through video conferencing, and participant must have their video on and working to speak. Attendees who wish to present photos or documents to the Planning Commission must attend in person. Those who join via phone may listen, but not comment.

In the event the electronic portion of the meeting is disrupted in any way that the City in its sole discretion deems inappropriate, the City reserves the right to immediately remove the individual(s) from the meeting and, if needed, end virtual access to the meeting. Reasons for removing an individual or ending virtual access to the meeting include but are not limited to the posting of offensive pictures, remarks, or making offensive statements, disrespectful statements, or actions, and other any action deemed inappropriate.

Ability to participate virtually is dependent on an individual's internet connection. To ensure comments are received regardless of technical issues, please have them submitted in writing to City Planner, Greg Schindler, at [gschindler@sjc.utah.gov](mailto:gschindler@sjc.utah.gov) by 3:00 p.m. on the day of the meeting.

Instructions on how to join the meeting virtually are below.

**Join South Jordan Planning Commission Electronic Meeting January 24, 2023 at 6:30 p.m.**

- Join on any device that has internet capability.
- Zoom link, Meeting ID and Meeting Password will be provided 24 hours prior to meeting start time.
- Zoom instructions are posted <https://www.sjc.utah.gov/254/Planning-Commission>

- A. **WELCOME AND ROLL CALL – Commission Chair Michele Hollist**
- B. **MOTION TO APPROVE AGENDA**
- C. **APPROVAL OF THE MINUTES**
  - [C.1.](#) January 10, 2023, Planning Commission Meeting Minutes
- D. **STAFF BUSINESS**
- E. **COMMENTS FROM PLANNING COMMISSION MEMBERS**
- F. **SUMMARY ACTION**
- G. **ACTION**
- H. **ADMINISTRATIVE PUBLIC HEARINGS**



**H.1. SILVERSTONE AUTOMATION SITE PLAN**

Address: 10096 South Jordan Gateway

File No: PLSPR202200232

Applicant: Joseph Milillo, MHTN Architects

**I. LEGISLATIVE PUBLIC HEARINGS**

**I.1. D&D RESIDENTIAL/HATCH SUBDIVISION**

Address: 10827 S. 1055 W. & 10828 S. 1055 W.

File No: PLZBA202200217

Applicant: Devan Hatch, D&D Residential Development, LLC

**J. OTHER BUSINESS**

**ADJOURNMENT**

**CERTIFICATE OF POSTING**

STATE OF UTAH )

: §

COUNTY OF SALT LAKE )

I, Cindy Valdez, certify that I am the duly appointed City Deputy Recorder of South Jordan City, State of Utah, and that the foregoing Planning Commission Agenda was faxed or emailed to the media at least 24 hours prior to such meeting, specifically the Deseret News, Salt Lake Tribune and the South Valley Journal. The Agenda was also posted at City Hall, on the City's website [www.sjc.utah.gov](http://www.sjc.utah.gov) and on the Utah Public Notice Website [www.pmn.utah.gov](http://www.pmn.utah.gov).

Dated this 19th day of January, 2023.

Cindy Valdez

South Jordan City Deputy Recorder



**CITY OF SOUTH JORDAN  
ELECTRONIC  
PLANNING COMMISSION MEETING  
COUNCIL CHAMBERS  
January 10, 2023**

Present: Commissioner Michele Hollist, Commissioner Nathan Gedge, Commissioner Trevor Darby, Commissioner Steven Catmull, Commissioner Laurel Bevans, Commissioner Aaron Starks, Assistant City Attorney Greg Simonsen, City Planner Greg Schindler, Deputy City Recorder Cindy Valdez, Deputy City Engineer Jeremy Nielson, GIS Coordinator Matt Jarman, Planner David Mann, Senior IS Tech Phill Brown, Meeting Transcriptionist Diana Baun, Planner Miguel Aguilera

Others: Jerri Harwell

Absent:

6:30 P.M.

**REGULAR MEETING**

**A. WELCOME AND ROLL CALL – Chair Michele Hollist**

Commissioner Michele Hollist welcomed everyone to the Electronic Planning Commission Meeting.

**B. MOTION TO APPROVE AGENDA**

**Commissioner Gedge motioned to approve tonight’s agenda as published. Commissioner Hollist seconded the motion; vote was unanimous in favor.**

**C. APPROVAL OF THE MINUTES**

**C.1. December 13, 2022 Planning Commission Meeting Minutes**

**Commissioner Catmull motioned to approve the December 13, 2022 Planning Commission Meeting Minutes as published. Chair Hollist seconded the motion; vote was unanimous in favor.**

**D. PLANNING COMMISSION BUSINESS**

**D.1. Elect Planning Commission Chair and Vice Chair for 2023**

Commissioner Aaron Starks asked for more historic context on the position, nominations and how it works including the expectations.



Chair Michele Hollist explained the position is usually appointed for the year, revisited in January for reappointment. In the past they have operated with just a chair and vice chair, the chair runs the meetings and sometimes there is some communication with the mayor. As the chair she has attended a few City Council meetings to be able to brief the commission when things come up, but that is not technically a requirement. The Vice Chair fills in when the chair is not available, also helps run the meetings.

Commissioner Starks asked if the commissioners' duration of service is affected or dependent on the council member appointing them to the position.

Commissioner Nathan Gedge said their terms line up with their council member's term.

Chair Hollist said that while this is an election year for some of the council members, each current member of the commission is entitled to stay in their role through the remainder of the year.

**Commissioner Gedge nominated Michele Hollist for the position of Planning Commission Chair. Commissioner Starks seconded that nomination; vote was unanimous in favor.**

**Commissioner Starks nominated Nathan Gedge for the position of Planning Commission Vice Chair. Commissioner Bevans seconded the nomination; vote was unanimous in favor.**

**D.2. Choose Planning Commission Representative to Architectural Review Committee.**

Commissioner Laurel Bevans noted that she has time in the mornings to fulfill this role if Commissioner Steve Catmull is unable to continue on that committee.

**Chair Hollist nominated Laurel Bevans as the Planning Commission Representative to the Architectural Review Committee. Commissioner Gedge seconded the nomination; vote was unanimous in favor.**

**E. STAFF BUSINESS**

Chair Michele Hollist congratulated GIS Coordinator Matt Jarman on his 15 years with the city, and thanked him for all he does.

City Planner Greg Schindler shared there is a new planner, who is in attendance tonight. His name is Miguel Aguilera and he started yesterday.

Assistant City Attorney Greg Simonsen noted the Meeting Transcriptionist was missing from the chambers and wanted to make sure that didn't cause any issues.



Staff informed him that she was on the Zoom meeting and attending online, so everything was good to go.

Planner Schindler brought up the previous discussion about opportunities for the commissioners to be on other committees and boards within the city. The council passed an ordinance in the past, stating that an individual can only serve on one appointed board or committee in the city at a time.

Commissioner Nathan Gedge asked about the commission nominating someone for the Architectural Review Committee (ARC), and how that is allowed.

Planner Schindler said that the ARC is not an official committee authorized by the city council, it was set up by the city manager years ago and that was never changed to allow the council members to make the appointments.

Commissioner Gedge asked about the commission having an informal representative or volunteer to be their representative to the city council.

Chair Michele Hollist noted that based on previous discussions, she believes the commission will rotate who attends based on availability rather than assigning a specific person. She then asked which commission members would be willing to be on that rotation to attend City Council meetings.

Commissioner Catmull was willing to take a turn, but he would be unable to attend on Tuesday nights. He would probably need to listen to the recording afterwards, but he is willing to do that and report back.

Chair Hollist asked how soon those recordings are available and staff responded that they are available the next day.

Commissioner Starks is willing to be an alternate, as he is traveling quite a bit during the next quarter.

Chair Hollist said she will create a draft for covering those meetings and they can discuss and make changes as needed once that's done.

Planner Schindler brought up the idea of a joint meeting with the city council, and that is scheduled for March 7, during the work session. That meeting will take up at least half of the work session, and he invited the commissioners to send any suggestions for discussion topics to staff, who will pass them on to the city council. He noted this will also be a training session.

**F. COMMENTS FROM PLANNING COMMISSION MEMBERS - None**



**G. ACTION - None**

**H. ADMINISTRATIVE PUBLIC HEARINGS**

**H.1. SEGO LILY DAY SPA SITE PLAN APPLICATION**

Address: 10418 S. Willow Valley Rd

File No.: PLSPR202100204

Applicant: Johan VanZeben Architecture

City Planner Greg Schindler reviewed background information from the Staff Report.

Commissioner Laurel Bevans asked if there were any comments back in April from the public, when this was originally presented.

Planner Schindler didn't believe so, he doesn't remember the previous planner mentioning any comments either.

Chair Hollist asked if the applicant was present this evening and invited them up to speak.

**Garrett Goff (Applicant)** – is with Garn Development, who also operates the Sego Lily Business. They have three locations, including Layton, Bountiful and Midvale. Part of the reason for the pause last April was due to labor. They looked at their other three locations and massage therapists were hard to come by, as was labor in general, and interest rates were doing what they were doing. They always knew they wanted to be in South Jordan because currently their flagship is in Midvale, specifically Fort Union. He grew up in the Sandy area, and many of them who grew up there and knew Sego Lily ended up in South Jordan, so they always knew they wanted to end up here because everyone knows what Sego Lily Day Spa is. The building is beautiful, the architect has done a phenomenal job designing it and you can see some of the contours and roundness of the building, actually trying to look like a flower blooming. There has been a lot of thought, care and detail that has gone into this over the last few years and they really think this would be their new flagship for their spa and they look forward to partnering with South Jordan City on this.

Commissioner Nathan Gedge asked for the general hours of operation.

Mr. Goff responded right now they are 9:00 to 7:00, Monday through Friday, and 9:00 to 9:00 on Saturday, closed on Sundays.

Commissioner Aaron Stark asked for details on the business model, whether it was subscription based and what kinds of services would be available.

Mr. Goff responded it is not subscription based. You go online and book a massage therapist for 60 or 90 minutes. They do the Vichy rubs, and are starting to look into



different medical device options like acupuncture; they have all the licensing required for that. They also do facials and pedicures.

Chair Hollist asked if staff reviews the services offered to make sure they all fall within what's allowed for personal services per city code.

Planner Schindler said that is done through the business licensing.

Chair Hollist asked to confirm that if they started doing something like tattooing, that would be reviewed to verify whether or not it needed a special permit.

David Mann shook his head to say no, as that is not a conditional use.

Commissioner Gedge noted that since they are offering additional medical services, he assumes that Fire has reviewed this to make sure there is appropriate emergency access in case of a complicated medical event.

Planner Schindler responded that yes, Fire reviews all the plans.

Chair Hollist opened the hearing for public comment. There were no comments and the hearing was closed.

Commissioner Gedge wanted to ensure that former employee emails and voicemails are being directed to new staff in the future.

**Commissioner Darby motioned to approve the Site Plan Application with File No. PLSPR202100204 at the address listed above. Chair Hollist seconded the motion. Roll Call Vote was 6-0, unanimous in favor.**

## **I. LEGISLATIVE PUBLIC HEARINGS**

### **I.1. Moderate Income Housing Plan Amendment, General Plan Amendment**

Planner David Mann reviewed background information from the Staff Report.

Chair Michele Hollist asked to confirm that the city's report required more detail in the timeline associated with rolling the chosen menu items out.

Planner Mann said yes, the initial plan approved in 2019 included the necessary strategies. They have updated the language to reflect the new language approved last year, but they also wanted more details for each strategy as far as the timeline and implementation steps set to take place in the future.



Commissioner Nathan Gedge knows the legislative session doesn't begin until next week, but he asked if staff is anticipating any more amendments that will require more changes on the city's end in the future.

Planner Mann said this requirement was part of HB 462, from last year's legislative session. These changes need to be submitted in the next month or two in order to still meet those requirements.

Commissioner Gedge asked if there are any penalties for failure to submit.

Planner Mann responded that to be prioritized for funding for roads and transportation, this needs to be in place.

Commissioner Laurel Bevans asked about the Jordan Gateway Transit Corridor, and specifically which part of the city that encompasses.

Planner Mann said that came after the general plan was approved in 2020, working with a consultant to create two sub area plans. One of those was the frontrunner station area, as well as the area around the business park by Mulligans, and that's where this was referencing.

Commissioner Bevans asked if the River Bottoms area was included in this.

Planner Mann responded yes.

Commissioner Bevans noted that on Page 5 it talks about the moderate income housing set aside, along with the programs available. How would a member of the public find those programs now, and are any still active.

Planner Mann said there was some funding available last year through the Covid time period for the CDBG program and the federal government, along with some county run programs. The city tried to create and run their own down payment assistance program, but they have been unsuccessful in figuring that out. He believes there are still some options with the county.

Commissioner Bevans noted that the Daybreak ADU standards have historically been different than the regular city standards, and asked if that was still correct.

Planner Mann responded that is correct.

Commissioner Bevans asked for details on the ADU standards in Daybreak, whether it's the HOA that disallows it or the city.

Planner Schindler said it's not necessarily Daybreak, but that city code states what zones ADUs are allowed in; the PC zone is not one of those zones. Over time, the city has been working with Daybreak in bringing the PC zone to the code section. However, Daybreak has reservations around that because the development agreement limits the number of



housing units to 20,785. They would have to open up the development agreement to make changes and specify what ADUs would count as additional units, and the developer doesn't necessarily want to open up the MDA because they like how it's written currently. They are allowed in the MDA to have ancillary units, and he explained a little bit about what those are.

Chair Hollist opened the hearing for public comment.

Assistant City Attorney Greg Simonsen quoted from Page 3, "The city's continuing discussions with the Daybreak developer regarding the development of Downtown Daybreak led to the city and Daybreak developer drafting an application for a Housing and Transit Reinvestment Zone. If approved, the Downtown Daybreak HTRZ will jumpstart the development of more than 100 acres in the Downtown Daybreak, which is situated along one future and two existing TRAX stations. Among other things, the HTRZ proposes more than 4700 residential units with more than 10% of those units being affordable." To him, as a citizen, there are two huge things going on in the city right now. The first is the one he just read, that 4700 residential units within a 100 acre area, probably means densities never seen in the city before. Based on what he has been hearing, without sitting in on the meetings, these talks have been going on for a long time now with the mayor, the city council and so forth. Back in 2008 he was on the UTA Board and one of the things they did as a board was travel down to Dallas. They got on their Dallas Area Rapid Transit and went up and down the line, getting out at stops and looking at the development along the way. That development was very high density, but it was really nice. If that's the kind of lifestyle someone would enjoy with nice places and rapid transit close by, mixed use shops with everything within walking distance, he thinks that is what they are trying to plan out there with entertainment and speculative talk of a ballpark. He thinks that will all be coming at some point before the planning commission, and there will obviously have to be zoning changes for that to happen. If it's 10% of 4700 residential units that are affordable, that's close to 500 affordable residential units. The other big thing that everyone has probably seen from the recent city council meeting is that there has been an annexation application submitted by Kennecott Copper to annex more than 2000 acres into the city, which is historic and will be carefully managed. They are talking about doing another Daybreak type development as part of that, so for anybody that has liked the Daybreak development or thought there should be some things different, now is the time to give input to the legislative body.

Chair Hollist asked about the HTRZ and whether that money will come from the RDA funds, and if it will be deed restricted.

Attorney Simonsen said that a significant amount of the money, as he understands it, is set to be RDA money, which comes from tax increment money. It comes out of property tax that would otherwise go to other entities within the city including schools. The idea behind it, to his understanding, is that it will jump start everything and then on the back end it would be more than recouped as part of the development process and sale taxes along with other money. If anyone wanted more information on that he encouraged them to contact the city's Director of Commerce Brian Preece, as he is the expert on all of that.



Commissioner Bevans asked about the developments coming in closer to the transit centers, and the discussions regarding reducing or eliminating parking requirements for those locations. Are there going to be requirements for the developers to provide incentives for residents to utilize the public transit systems, and how close do they have to be to these transit hubs to qualify for some of those reduced parking requirements.

Planner Schindler said that currently in Daybreak if they are within a quarter mile they can reduce the parking spaces for residential by one space per unit.

Chair Hollist noted that she understands the theory, but doesn't believe it's reality. In her opinion, every adult regardless of how close they live to transit in Utah has a car.

Planner Schindler said that's probably true because the adults not only need to get to work, which they can ride transit to, but they also need to get to the grocery store, school, etc.

Chair Bevans asked if we have ever required developers to provide incentives or special access to incentivize their residents to use the public transit systems.

Planner Schindler doesn't believe the city has. He thinks the apartment units near the Frontrunner station might be offering their tenants UTA passes as part of their rent, but they would probably be paying for that through their rent.

Commissioner Trevor Darby asked if anyone knew the number of households in South Jordan. He looked it up and believes it's about 24,000 and asked if that sounded correct.

Planner Schindler said he believes it's closer to 29,000.

Commissioner Darby noted that we are talking about a 16% to 17% increase to the total city with those 4700 units in that area.

Planner Schindler noted that Daybreak still can't go over the 20,785 units. Generally, with the expected densities, these will be condominiums or apartment units, and those tend to have smaller household sizes.

Chair Hollist closed the hearing.

**Commissioner Gedge moved to make a positive recommendation to the City Council to adopt the amendments above based on their review tonight. Chair Hollist seconded the motion. Roll Call Vote was 6-0, unanimous in favor.**

## **J. OTHER BUSINESS**

Commissioner Aaron Starks said he hasn't been receiving any emails since starting, so he doesn't get staff reports and recommendations ahead of the meetings. He would love to get that information in advance if it is being sent out to the other commissioners. Staff agreed to discuss



it after the meeting and figure out what's going on. He said he has contacted IT to get his city email set up, but was having some issues.

Commissioner Nathan Gedge brought up the annexation that has been proposed, and it was mentioned tonight that it might have a development agreement with, he assumes, a PC Zone. He asked if that will come before the commission, and if there will be a public hearing before the city council adopts anything.

City Planner Schindler said there probably won't be a lot of input on the development agreement, but there will be public hearings because it will have to be rezoned and will need a land use amendment. Both the rezone and land use amendment would come before the planning commission. Also, because of the location of this annexation, if Rio Tinto decides to develop more of their property in the future, especially to the north of this, it is all adjacent to South Jordan City as well. What is being proposed for annexation right now could have been annexed as part of Herriman's annexation plan, but Rio Tinto determined that South Jordan was the place to be.

Chair Hollist noted that it's good to be involved in the process early, to avoid issues later on in development after all those decisions have been made.

Commissioner Gedge added that with that he would like to see the planning commission leave some guidance for residents of the process and the thinking behind the decisions. If it is allowed, he would like to see this annexation as an item on the March 7 meeting agenda.

Planner Schindler confirmed that the zoning for that area will be the PC Zone.

Commissioner Laurel Bevans asked if staff knew which council district that area touches.

GIS Coordinator Matt Jarman answered that will be part of District 4, as all of the annexed area shares a boundary with District 4 currently and that is where it will be incorporated. None of the annexation area currently has any residents in it, which makes that process a lot easier. They have taken the first step in the annexation process with receiving the annexation and approving it, however it has to go through several hands and processes, up through the Lieutenant Governor, before it becomes recorded and officially part of the city. That will take a significant amount of time, and he doesn't think they will be looking at zoning or land use for a few months at least.

Commissioner Gedge asked if there have been any conversations with our neighbors, like Herriman, regarding whether they will be opposing this at any level.

Planner Schindler said there isn't much they can do to oppose it since there is no population in the area to oppose it, and the property owner is the one who decides where they want to annex. They are proposing to annex a small portion into Herriman that is actually south of 11800 South and east of Bacchus Highway.



Coordinator Jarman said there have been numerous discussions with Herriman City regarding this annexation, and some concessions were made regarding future street alignments and things of that nature.

Commissioner Gedge asked if fire and police access will be impacted for the rest of the city because of this, and if so he assumes the city will dedicate additional resources so that those residents on the eastern side of South Jordan will not be negatively impacted by the addition.

Coordinator Jarman said they are discussing future station locations and future streets right now.

Planner Schindler said no one will be affected by a station closing, but everyone in the city is impacted when a new station is built as the entire city pays as growth continues.

Commissioner Gedge asked about the next meeting and what the agenda looks like.

Planner Mann said there are three items on the agenda for the next meeting.

## **ADJOURNMENT**

**Chair Hollist motioned to adjourn the January 10, 2023 Planning Commission Meeting. Commissioner Bevans seconded the motion; vote was unanimous in favor.**

The January 10, 2023 Planning Commission Meeting adjourned at 7:33 p.m.



# **SOUTH JORDAN CITY PLANNING COMMISSION REPORT**

**Meeting Date: 01/24/2023**

**Issue:** SILVERSTONE AUTOMATION  
SITE PLAN  
**Address:** 10096 South Jordan Gateway  
**File No:** PLSPR202200232  
**Applicant:** Joseph Milillo, MHTN Architects

**Submitted by: Damir Drozdek, Planner III**  
**Shane Greenwood, Supervising Senior Engineer**

**Staff Recommendation (Motion Ready):** I move that the Planning Commission **approve** application PLSPR202200232 to allow for construction of a new commercial building on property located at 10096 South Jordan Gateway.

## **STANDARD OF REVIEW:**

All proposed commercial, office, industrial, multi-family dwelling or institutional developments and alterations to existing developments shall meet the site plan review requirements outlined in chapter 16.24 and the requirements of the individual zone in which a development is proposed. All provisions of titles 16 & 17 of the City Code, and other city requirements, shall be met in preparing site plan applications and in designing and constructing the development. The Planning Commission shall receive public comment regarding the site plan and shall approve, approve with conditions or deny the site plan.

## **BACKGROUND:**

The proposed project is located at 10096 South Jordan Gateway. The building will be used to design, test and build custom automation machines that will primarily cater to medical manufacturing companies.

The project was originally approved on August 25, 2020. As per City Code, the approval remains in effect for one year unless building construction has begun. An extension of the approval was granted on August 16<sup>th</sup> of 2021 allowing the applicant another year to start construction. Due to Covid and other related issues, construction on the building has not taken place for two years since the project approval.

Since the extension is now expired, the applicant must apply and obtain a site plan approval from the Planning Commission once again. Once approved, the applicant will be able to apply and obtain a building permit to begin construction.



**STAFF FINDINGS, CONCLUSIONS & RECOMMENDATION:****Findings:**

- The original application was approved August 25, 2020 and the approval has since expired.
- The only changes made to the plans pertain to building elevations and the landscape plans.

**Conclusion:**

- The original approval as well as the proposed changes meet or exceed the City Code requirements.

**Recommendation:**

- Based on the Findings and Conclusions listed above, Staff recommends that the Planning Commission take comments at the public hearing and **approve** the Application, unless, during the hearing, facts are presented that contradict these findings or new facts are presented, either of which would warrant further investigation by Staff.

**ALTERNATIVES:**

- Approve an amended Application.
- Deny the Application.
- Schedule the Application for a decision at some future date.

**SUPPORT MATERIALS:**

- Letter from the Applicant
- New Building Elevations
- City Engineer Approved Drawings - New
- Original Staff Report
- PC Meeting Minutes
- Extension Letter

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Damir Drozdek, AICP  
Planner III, Planning Department



December 22, 2022

City of South Jordan Planning Commission

Dear Commissioners,

After a couple of tough COVID years, Holdings10 would like to revive the build of the Silverstone Building at 10096 South Jordan Gateway. You're aware that a number of factors made construction difficult during those years.

For Holdings10, the factors that stopped the process included:

- Scarcity of building materials which resulted in wildly increasing and unpredictable costs and unknown delivery times. For example, trusses were out a year which meant that the construction would be partially done and then the process idled.
- The appraisal did not align with the quickly escalating construction costs. Building sale prices prior to COVID were significantly less than the present-day costs to construct that same building. This negatively affect the loan process.
- Unknown construction labor pool during the pandemic. Possible labor interruptions seemed likely to delay the project completion.

Due to the risks associated with the above factors, Holdings10 chose to wait for the pandemic and construction climate to settle.

Silverstone's business has been steady and still needs the additional space provided by the new building. The original reasons to build the building are still clearly present for Silverstone.

Regards,  
Leonard Di Sera and Corey Bodily  
Holdings10





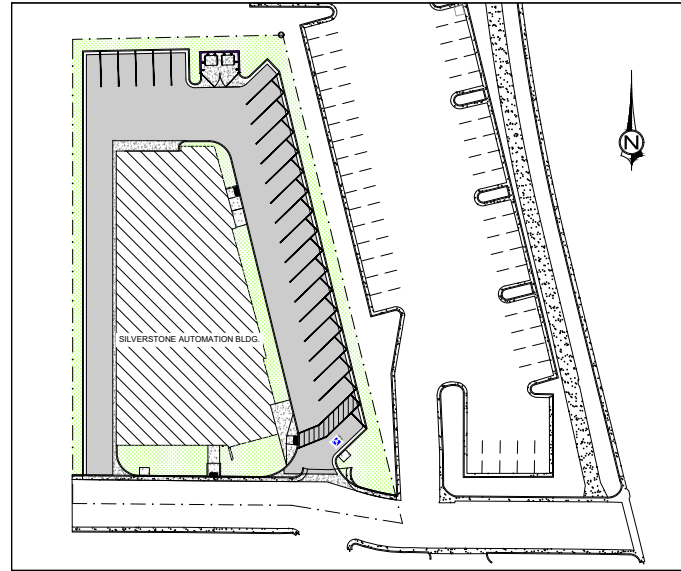
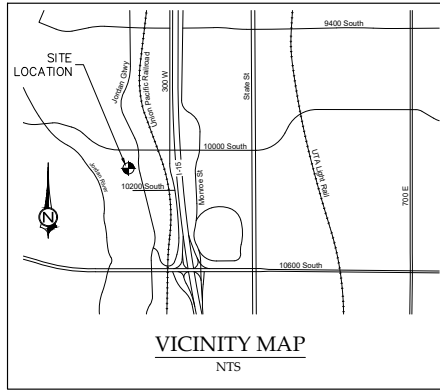






# SILVERSTONE AUTOMATION BUILDING

LOCATED IN SW 1/4 OF SECTION 12, TOWNSHIP 3 SOUTH, RANGE 1 WEST,  
SALT LAKE BASE AND MERIDIAN  
10096 S 460 W, SOUTH JORDAN, UTAH



SHEET INDEX		
SHEET	#	TITLE
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SP2	4	SITE AND UTILITY PLAN
GP	5	GRADING PLAN
DT1	6	DETAILS
DT2	7	DETAILS
DT3	8	DETAILS

## PROJECT CONTACTS

### LOCAL GOVERNMENT

SOUTH JORDAN CITY PLANNING & ZONING  
1600 W. TOWNE CENTER DR.  
SOUTH JORDAN, UTAH 84095  
PHONE: 801-254-3742

### SEWER

SOUTH VALLEY SEWER DISTRICT  
1253 W. JORDAN BASIN LN.  
BLUFFDALE, UTAH 84065  
PHONE: 801-571-1166

### WATER

SOUTH JORDAN CITY PUBLIC WORKS  
10996 S. REDWOOD RD.  
SOUTH JORDAN, UT 84095  
PHONE: 801-253-5230

### FIRE DEPARTMENT

SOUTH JORDAN CITY FIRE DEPARTMENT  
1600 W. TOWNE CENTER DR.  
SOUTH JORDAN, UTAH 84095  
PHONE: 801-254-3742

## OWNER

SILVERSTONE AUTOMATION  
14621 S. 800 W., Suite 200  
BLUFFDALE, UTAH 84065  
PHONE: 801-619-0803

## ARCHITECT

MHTN ARCHITECTS  
420 E. SOUTH TEMPLE #100  
SALT LAKE CITY, UTAH 84111  
PHONE: 801-595-6700

## ENGINEER

**CivilScience**  
Engineers | Surveyors | Solutions  
3160 WEST CLUBHOUSE DRIVE  
LEHI, UT 84043  
801.768.7200

### City Engineer

City of South Jordan  
Approved 01/10/2023

*Ben Klawns* City Engineer



Know what's below.  
Call before you dig.



REVISIONS		DATE
NO.	DESCRIPTION	DATE

COVER SHEET  
SILVERSTONE AUTOMATION BUILDING  
SOUTH JORDAN, UT

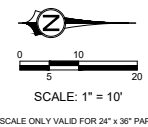
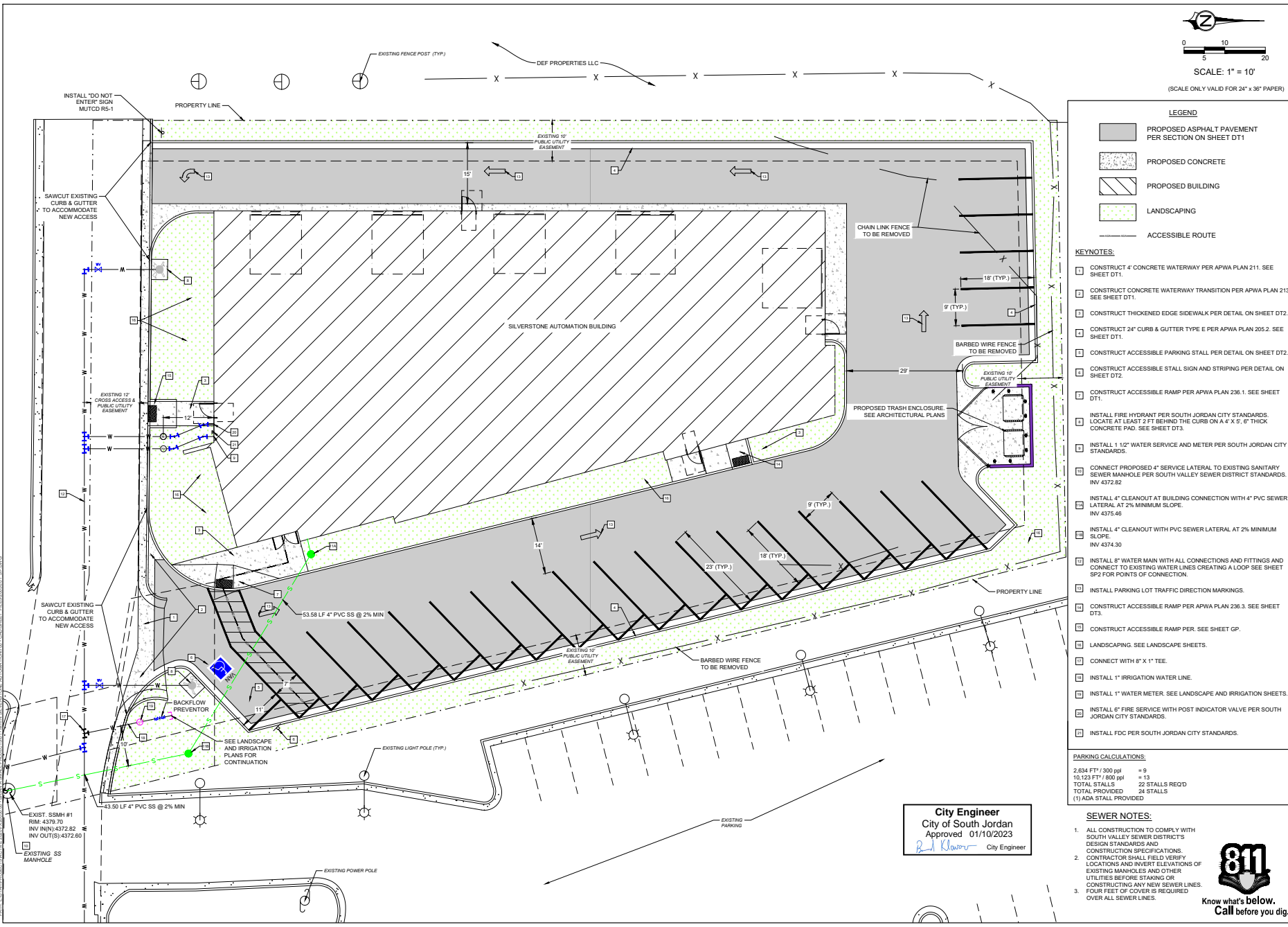
PROJ. #	FF 2020-01
DATE	DECEMBER 2, 2022
DESIGN	
CHECK	
SHEET	18
OF	8



PATH: L:\UTM\PROJECTS\ACTIVE 2020\FX 2050 00 - BRIAN A SMALL PROJECT\9A1-MHFN SILVERTONE AUTOMATION\700 - CAD\SHEET FILE\2050501 CV & NOTE.SWG



ALL UTILITIES SHOWN ARE BASED ON RECORD DRAWINGS AND FIELD SURVEY. THE USER SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.



- LEGEND**
- PROPOSED ASPHALT PAVEMENT PER SECTION ON SHEET DT1
  - PROPOSED CONCRETE
  - PROPOSED BUILDING
  - LANDSCAPING
  - ACCESSIBLE ROUTE

- KEYNOTES:**
- CONSTRUCT 4" CONCRETE WATERWAY PER APWA PLAN 211. SEE SHEET DT1.
  - CONSTRUCT CONCRETE WATERWAY TRANSITION PER APWA PLAN 213. SEE SHEET DT1.
  - CONSTRUCT THICKENED EDGE SIDEWALK PER DETAIL ON SHEET DT2.
  - CONSTRUCT 24" CURB & GUTTER TYPE E PER APWA PLAN 205.2. SEE SHEET DT1.
  - CONSTRUCT ACCESSIBLE PARKING STALL PER DETAIL ON SHEET DT2.
  - CONSTRUCT ACCESSIBLE STALL SIGN AND STRIPING PER DETAIL ON SHEET DT2.
  - CONSTRUCT ACCESSIBLE RAMP PER APWA PLAN 236.1. SEE SHEET DT1.
  - INSTALL FIRE HYDRANT PER SOUTH JORDAN CITY STANDARDS. LOCATE AT LEAST 2 FT BEHIND THE CURB ON A 4' X 5', 6" THICK CONCRETE PAD. SEE SHEET DT3.
  - INSTALL 1 1/2" WATER SERVICE AND METER PER SOUTH JORDAN CITY STANDARDS.
  - CONNECT PROPOSED 4" SERVICE LATERAL TO EXISTING SANITARY SEWER MANHOLE PER SOUTH VALLEY SEWER DISTRICT STANDARDS. INV 4372.82
  - INSTALL 4" CLEANOUT AT BUILDING CONNECTION WITH 4" PVC SEWER LATERAL AT 2% MINIMUM SLOPE. INV 4375.46
  - INSTALL 4" CLEANOUT WITH PVC SEWER LATERAL AT 2% MINIMUM SLOPE. INV 4374.30
  - INSTALL 8" WATER MAIN WITH ALL CONNECTIONS AND FITTINGS AND CONNECT TO EXISTING WATER LINES CREATING A LOOP SEE SHEET SP2 FOR POINTS OF CONNECTION.
  - INSTALL PARKING LOT TRAFFIC DIRECTION MARKINGS.
  - CONSTRUCT ACCESSIBLE RAMP PER APWA PLAN 236.3. SEE SHEET DT3.
  - CONSTRUCT ACCESSIBLE RAMP PER. SEE SHEET GP.
  - LANDSCAPING. SEE LANDSCAPE SHEETS.
  - CONNECT WITH 8" X 1" TEE.
  - INSTALL 1" IRRIGATION WATER LINE.
  - INSTALL 1" WATER METER. SEE LANDSCAPE AND IRRIGATION SHEETS.
  - INSTALL 6" FIRE SERVICE WITH POST INDICATOR VALVE PER SOUTH JORDAN CITY STANDARDS.
  - INSTALL FDC PER SOUTH JORDAN CITY STANDARDS.

**PARKING CALCULATIONS:**

2,634 FT <sup>2</sup> / 300 ppl	= 9
10,123 FT <sup>2</sup> / 800 ppl	= 13
TOTAL STALLS	22 STALLS REQ'D
TOTAL PROVIDED	24 STALLS
(1) ADA STALL PROVIDED	

- SEWER NOTES:**
- ALL CONSTRUCTION TO COMPLY WITH SOUTH VALLEY SEWER DISTRICT'S DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS.
  - CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTING ANY NEW SEWER LINES.
  - FOUR FEET OF COVER IS REQUIRED OVER ALL SEWER LINES.

City Engineer  
City of South Jordan  
Approved 01/10/2023  
*Paul Klawns* City Engineer

PROFESSIONAL ENGINEER  
No. 1135943  
ROBERT BURKHILL, III  
12.02.22  
STATE OF UTAH

NO.	REVISION	DATE	DESCRIPTION

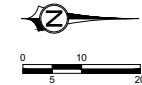
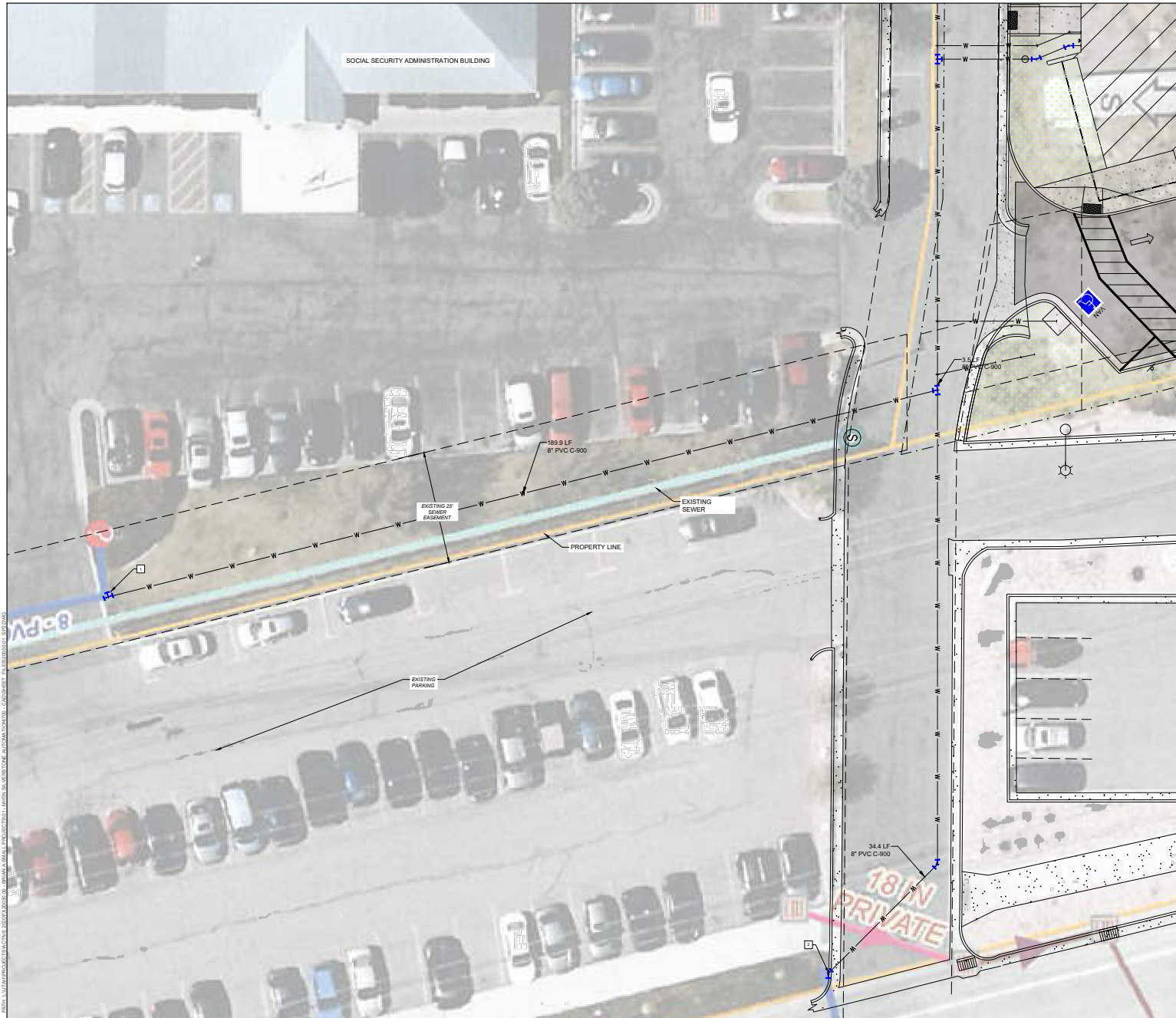
**SITE AND UTILITY PLAN**

SILVERSTONE AUTOMATION BUILDING  
SOUTH JORDAN, UT

PROJ. # FF 2020-01  
DATE: DECEMBER 2, 2022  
DESIGNER: CHIC  
SHEET: 20  
3 OF 8

Know what's below.  
Call before you dig.





SCALE: 1" = 10'  
(SCALE ONLY VALID FOR 24" x 36" PAPER)

#### LEGEND

- PROPOSED ASPHALT PAVEMENT  
PER SECTION ON SHEET DT1
- PROPOSED CONCRETE
- PROPOSED BUILDING
- LANDSCAPING
- ACCESSIBLE ROUTE

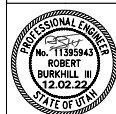
#### KEYNOTES:

- INSTALL 6" WATER MAIN WITH ALL CONNECTIONS AND FITTINGS AND CONNECT TO EXISTING 8" WATER MAIN PER SOUTH JORDAN CITY STANDARDS.
- CONNECT TO EXISTING 6" WATER MAIN PER SOUTH JORDAN CITY STANDARDS.

**City Engineer**  
City of South Jordan  
Approved 01/10/2023  
*Bob Kline* City Engineer

#### SEWER NOTES:

- ALL CONSTRUCTION TO COMPLY WITH SOUTH VALLEY SEWER DISTRICT'S DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS.
- CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTING ANY NEW SEWER LINES.
- FOUR FEET OF COVER IS REQUIRED OVER ALL SEWER LINES.



NO.	REVISION	DATE	DESCRIPTION

**SITE AND UTILITY PLAN**  
SILVERSTONE AUTOMATION BUILDING  
SOUTH JORDAN, UT

PROJ. #	FF 2020-01
DATE	DECEMBER 2, 2022
DRAWN	
CHECK	
SHEET	21
OF	8

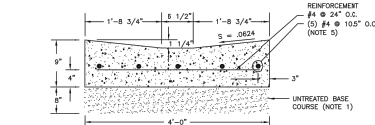




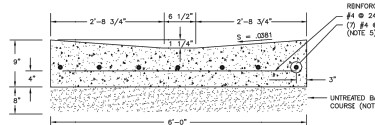


# Waterway

- GENERAL**
  - Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
  - Unless indicated otherwise, width of waterway as follows.
    - 4 feet for a residential street.
    - 6 feet for a non-residential street.
    - If wider than 6 feet, offset the flow line in the waterway to match (line up with) the curb and gutter flow line. Adjust cross slopes to match existing slopes.
- PRODUCTS**
  - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
  - 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.
  - Reinforcement: Galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A615.
  - Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
- EXECUTION**
  - Base Course Placement: APWA Section 32 05 10. Thickness is 6-inches if flow-line grade is 0.5 percent ( $\pm 0.005$ ) 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.
  - Concrete Placement: APWA Section 03 30 16.
    - Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Expansion joints are not required in concrete placement using slip-form construction.
    - 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.
    - Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
  - 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.



4'-0" WATERWAY



6'-0" WATERWAY

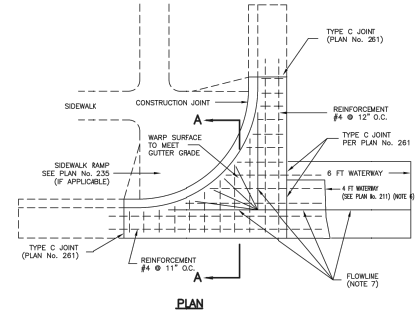
Waterway  
31

Plan No.  
211

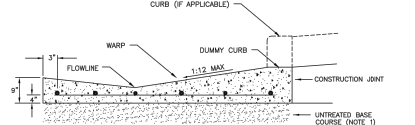
January 2003

# Waterway transition structure

- GENERAL**
  - Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
  - Additional requirements are specified in APWA Section 32 16 13.
- PRODUCTS**
  - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
  - 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.
  - Reinforcement: Galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A615.
  - Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
- EXECUTION**
  - 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.
  - Concrete Placement: APWA Section 03 30 16.
    - Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Expansion joints are not required in concrete placement using slip-form construction.
    - 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.
    - Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
  - 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.



PLAN



SECTION A-A

Waterway transition structure

Plan No.  
213

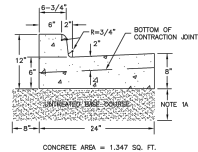
May 2005

211

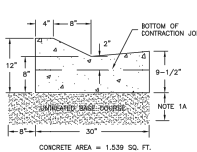
213

# Curb and gutter

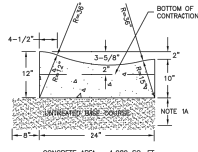
- GENERAL**
  - Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
  - Additional requirements are specified in APWA Section 32 16 13.
- PRODUCTS**
  - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
  - 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.
  - Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
- EXECUTION**
  - Base Course Placement: APWA Section 32 05 10. Thickness is 6-inches if flow-line grade is 0.5 percent ( $\pm 0.005$ ) 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.
  - Concrete Placement: APWA Section 03 30 16.
    - Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Expansion joints are not required in concrete placement using slip-form construction.
    - 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.
    - Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
  - 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.



TYPE E



TYPE F



TYPE G

CURB AND GUTTER JOINT DETAIL

Curb and gutter  
27

Plan No.  
205

June 2005

Drawing 2 of 2

# Midblock curb cut assembly

- GENERAL**
  - 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.
  - Installation of flares or curb returns is ENGINEER's choice.
  - Definitions and supplemental requirements are specified in APWA Section 32 16 14.
- PRODUCTS**
  - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
  - 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.
  - Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
- EXECUTION**
  - 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.
  - Concrete Placement: APWA Section 03 30 16.
    - Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Expansion joints are not required in concrete placement using slip-form construction.
    - 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.
    - Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
  - Clear Space: No trip hazards in the clear space.

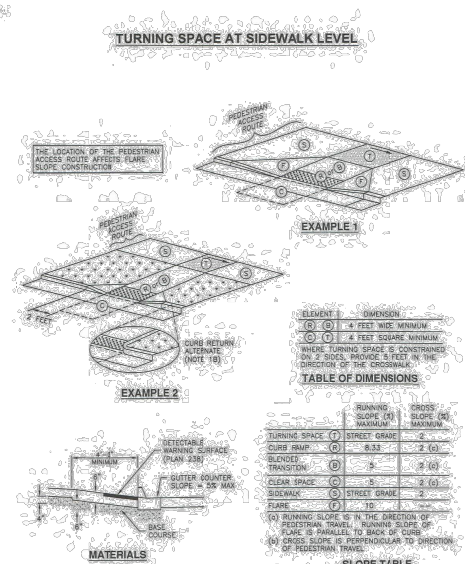


TABLE OF DIMENSIONS

TURNING SPACE (T)	STREET GRADE (S)	CURB RAMP (C)	TRANSITION (D)	CLEAR SPACE (E)	FLARE (F)
4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"

205.2

236.1

City Engineer  
City of South Jordan  
Approved 01/10/2023  
R. J. Kline City Engineer

APWA  
Utah Chapter

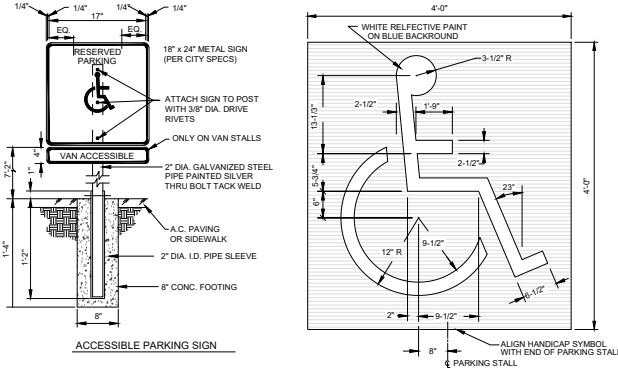
Mid-block curb cut assembly

236.1

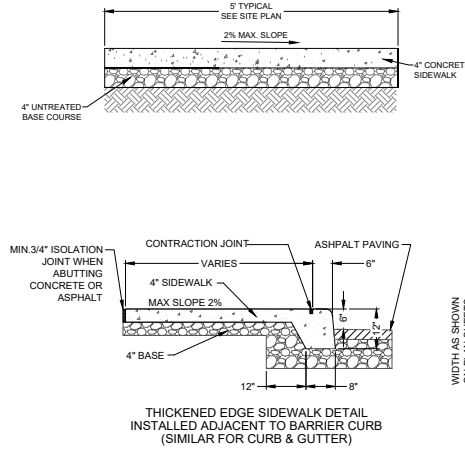
PROJ # FF 2020-01  
DATE DECEMBER 2, 2022  
DESIGNER  
CHECKER  
SHR  
23  
6 OF 8

Civil Science  
Engineering and Construction  
1139543  
BURKHILL  
12.02.22  
STATE OF UTAH  
SILVERSTONE AUTOMATION BUILDING  
SOUTH JORDAN, UT

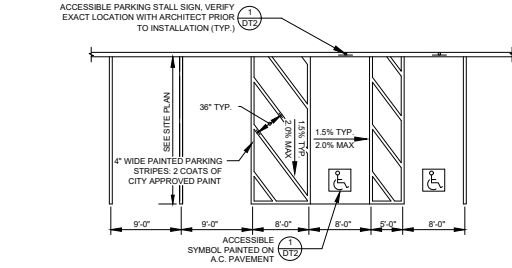




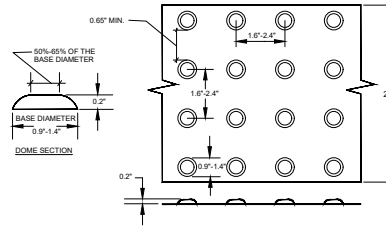
① INTERNATIONAL SYMBOL OF ACCESSIBILITY  
N.T.S.



② SIDEWALK DETAILS  
N.T.S.

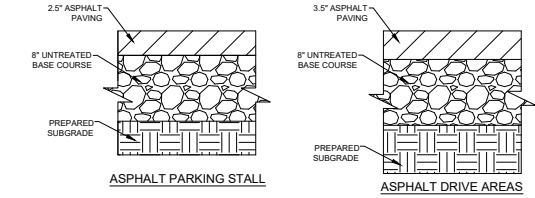


③ ACCESSIBLE PARKING STALL  
N.T.S.



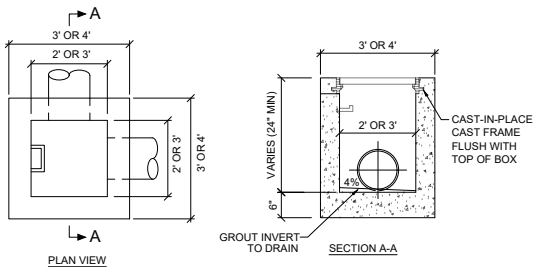
④ DETECTABLE WARNING (TRUNCATED DOMES) DETAIL  
N.T.S.

NOTES:  
1. DETECTABLE WARNING CONSISTING OF RAISED TRUNCATED DOMES CONTRASTING VISUALLY WITH ADJOINING SURFACES SHALL BE PLACED ON BOTTOM PORTION OF RAMP EXTENDING 4' MINIMUM WIDTH AND TO A MINIMUM DEPTH OF 24 INCHES PER CITY STANDARDS.



\* REFER TO PROJECT GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION

⑤ PAVEMENT SECTIONS  
N.T.S.



⑥ PRECAST DROP INLET DETAIL  
N.T.S.

NOTES:  
1. CONCRETE SHALL BE 4000 PSI @ 28 DAYS. INLET MAY BE CAST-IN-PLACE OR PRECAST AND SHALL CONFORM TO ASTM C-478. PRECAST INLETS SHALL CONFORM WITH ASTM C88 AND C913. (PRECAST BOX SHOWN)  
2. CAST-IN-PLACE CONCRETE WALLS SHALL BE 6\"/>

NOTES:

1. 4\"/>

NO.	REVISION	DESCRIPTION	BY	DATE





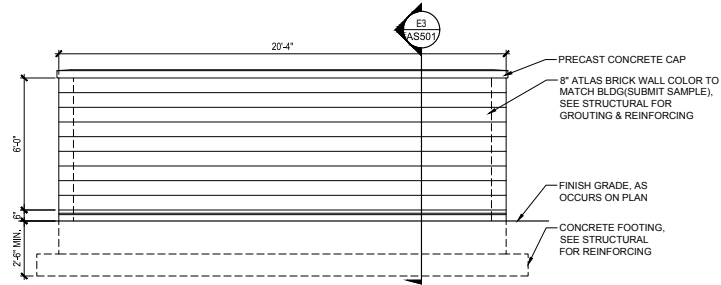


A

B

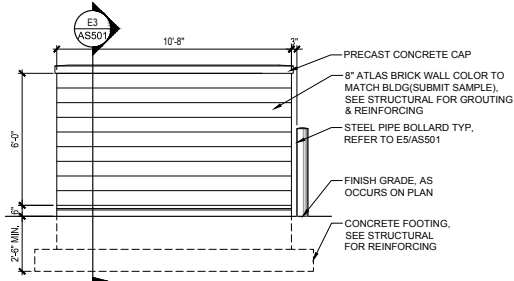
C

D



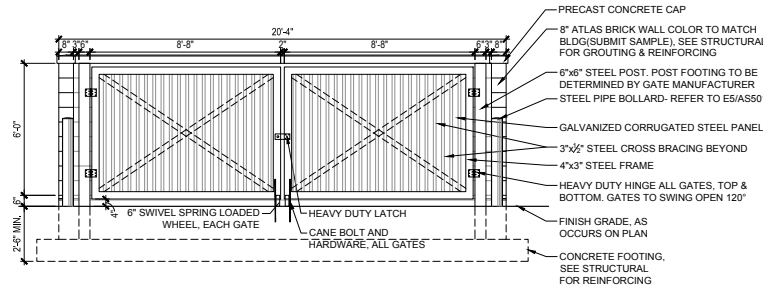
**B2** DUMPSTER ENCLOSURE- NORTH ELEVATION

P-CO-SL-042263-13



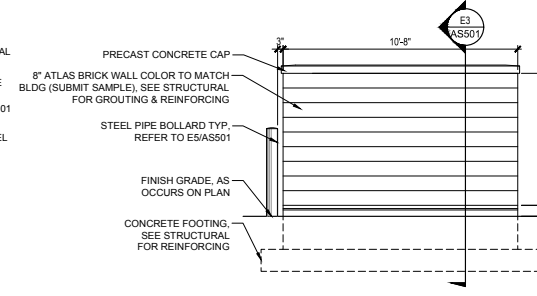
**C1** DUMPSTER ENCLOSURE- WEST ELEVATION

P-CO-SL-042263-11



**C2** DUMPSTER ENCLOSURE- SOUTH ELEVATION

P-CO-SL-042263-14

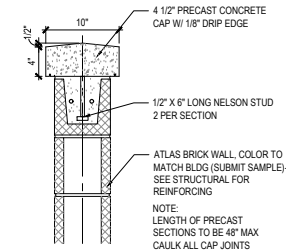


**C4** DUMPSTER ENCLOSURE- EAST ELEVATION

P-CO-SL-042263-14

## REFERENCE NOTES SCHEDULE

SYMBOL	LANDSCAPE DESCRIPTION
(L-01)	ASPHALT PAVING
(L-02)	CONCRETE PAVING
(L-03)	CONCRETE CURB & GUTTER
(L-04)	CMU SCREEN WALL
(L-05)	BOLLARD TYP.

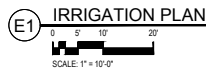


**D4** 10' PRECAST CONCRETE CAP

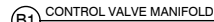
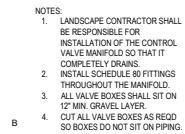
1/2" = 1'-0"

P-CO-SL-042263-02



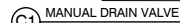






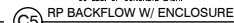
NOT TO SCALE

P-CO-SIL-328406-00



04 NOT TO SCALE

P-CO-SIL-328406-10



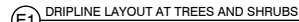
P-CO-SIL-328409-01


$$\int_{-\infty}^{\infty} f(x) \delta(x - a) dx = f(a)$$


④  $1^{\circ} = 1^{\circ}$

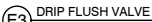


⑤  $1^{\circ} = 1^{\circ}$



① 1° = 1'-0"

P-CO-SIL-328413-11


$$1^* = 1^*$$


④  $1^{\circ} = 1'-0''$



1° = 1°

P-CO-SIL-328409-07



IRRIGATION SYSTEMS

SECTION 328400 - IRRIGATION SYSTEMS

1. GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the contract, including General and Supplementary Conditions and Division I Specification Sections, apply to this Section.
- B. This Section includes valves, piping, sprinklers, specialties, accessories, controls, and wiring for irrigation systems.
- C. Field verify capacity of the existing irrigation system complete including but not limited to flow, capacity, controller operation and etc.
- D. Related Sections: The following Sections contain requirements that relate to this Section:

1. Section 01100 "Summary".
2. Specification Section "Soils Report for reference only."
3. Section 320401 "Drp Irrigation System."
4. Section 329301 "Landscape Planting."
5. Division 26 Sections for electrical power materials and installations.

1.3 DEFINITIONS

- A. Piping sizes used in this Section are nominal pipe size (NPS) in inches. Tube sizes are standard size in inches. Equivalent (E) (metric) sizes are indicated in millimeters (mm) in parentheses.
- B. Supply Piping: Piping from water source to connection to irrigation system pressure piping. Piping is under same pressure as water supply. Piping in this category is not included in this Section.
- C. Pressure Piping: Piping downstream from supply piping to and including control valves. Piping is under irrigation system pressure. Piping in this category includes pressure regulator, water meters, and backflow preventers, when used.
- D. Control Piping: Piping downstream from control valves to irrigation system sprinklers, emitters, devices, and drain valves. Piping is under pressure (less than pressure piping) during flow.
- E. Control Valve: Manual or automatic (electrically operated) valve for control water flow to irrigation system zone, including isolation or zone valves. Piping is not under pressure.
- F. Drain Piping: Downstream from control or pressure piping drain valves. Piping is not under pressure.
- G. Drain Valve: Manual drain valve for draining of irrigation system circuit piping.

1.4 SYSTEM PERFORMANCE REQUIREMENTS

- A. Location of Sprinkler and Devices: Design location is approximate. Make minor adjustments necessary to avoid planting and obstructions such as signs and light standards.
- B. Minimum Water Coverage: Not less than:
  1. Turf Areas: 100 percent.
  2. Other Planting Areas: 100 percent.
- C. Components and Installation: Capable of producing piping systems with the following minimum working pressure ratings except where indicated otherwise:
  1. Pressure Piping: 150 psig (1035 kPa).
  2. Control and Drain Piping: 100 psig (689 kPa).

1.5 CODES AND STANDARDS

- A. Plumbing code compliance: Comply with any applicable portions of the Utah state plumbing code pertaining to the selection of materials and the installation of irrigation systems.
- B. Water purveyor compliance: Comply with requirements of purveyor supplying water to the project.
- C. Any permits that are needed for the installation of construction of any work included under the contract, which are required by the authorities of jurisdiction, shall be obtained and paid for by the contractor following whatever ordinances, regulations and codes requiring the permit. If the authorities of the jurisdiction require inspection at said points of the installation, the contractor shall pay all costs related thereto.
- D. Additional work or furnishing of materials required due to inspection by the authorities of jurisdiction shall be furnished at no cost to the owner. If the specifications for this project and existing ordinances, regulations or codes are in conflict, the piping shall be noted in writing by the contractor to the owner's authorized representative, and any necessary changes in work shall allow an established procedure for claims for extra compensation.

1.6 SUBMITTALS

- A. General: Submit the following according to the Conditions of Contract and Division I Specification Sections:
  1. Product data including pressure, rating, rated capacity, settings, and electrical data of selected models for the following:
    - a. Pressure regulators.
    - b. Valves, including general-duty, underground, manual and automatic control, and quick-coupler types, and valve boxes.
    - c. Sprinklers, including emitters, drip tubes, and devices.
    - d. Controls, including controller wiring diagrams.
    - e. Wiring and fittings.
    - f. Pipe, including sleeves, lateral, supply, conduit and drain.
    - g. Flow Sensor.
    - h. Plastic pipe cement.
    - i. Backflow Prevention Device.
    - j. Master Valve.
  2. Wiring diagrams for electrical controls, valves, and devices.
- B. Maintenance data for inclusion in "Operating and Maintenance Manual" specified in Division 1 Section "Project Closeout" for the following:
  1. Pressure regulators.
  2. Automatic control valves.
  3. Sprinklers.
  4. Controllers.
  5. Flow Sensor.
  6. Master Valve.
  7. Backflow Prevention Device.
- C. Erection Schedule: A monthly irrigation Schedule shall be prepared that covers the initial 120-day establishment period and the typical long term use period. This schedule shall consist of a table with the following information for each valve:
  1. Plant type (for example, turf, trees, low water use plants);
  2. Irrigation type (for example, sprinklers, drip, bubblers);
  3. Flow rate in gallons per minute;
  4. Precipitation rate in inches per hour (sprinklers only);
  5. Run time in minutes per day;
  6. Number of water days per week;
  7. Cycle time to avoid runoff.

The irrigation schedule shall rely on the estimated landscape water use calculations and shall be adjusted as necessary for irrigation efficiency, soil conditions, slope, and microclimate conditions.

**Qualification Data: for Qualified Installer.**

**Mock ups:** This contractor will provide a mockup of a three valve manifold.

1.7 QUALITY ASSURANCE

- A. Comply with requirements of utility supplying water for prevention of backflow and back-siphonage.
- B. Comply with requirements of authority with jurisdiction for irrigation systems.
- C. Installer Qualifications: Engage an experienced installer who has completed minimum of 6 irrigation systems similar in material, design, and extent to indicate for Project that have resulted in construction with a record of successful in-service performance. Contractor must be a Certified Irrigator Contractor.
- D. Listing/Approval Stamp, Label, or Other Marking: On equipment, specialties, and accessories make to specified standards.
- E. Listing and Labeling Equipment, specialties, and accessories that are listed and labeled:
  1. The terms "Listed" and "Labeled": As defined in National Electrical Code "Article 100."
  2. Listing and Labeling Agency Qualifications: A Nationally Recognized Testing

Laboratory" (NRTL) as defined in OSHA Regulation 1910.7.

F. Product Options: Irrigation system piping, specialties, and accessories are based on specific types, manufacturers, and models indicated. Components with equal performance characteristics produced by other manufacturers may be considered, provided deviations in dimensions, operation, and other characteristics do not change design concept or intended performance as judged by the Architect, unless noted "No Substitute". The burden of proof of product equality is on the Contractor. Refer to Division 1 Section "Product Substitutions". No requests for substitutions will be reviewed after bids have been received by Owner.

- A. Perform site survey, research public utility records, and verify existing utility locations. Verify that irrigation system piping may be installed in compliance with original design and referenced standards. Report to the Landscape Architect in writing any contradictions between the site, the drawings and the specifications.
- B. Site Inspection: Reports on subsurface condition investigations made during design of the Project are available for informational purposes only; data in reports are not intended as representations or warranties of accuracy or continuity of conditions (between soil borings). Owner assumes no responsibility for interpretations or conclusions drawn from site information.
- C. Sequencing and Scheduling
- D. Maintain uninterrupted water service to building during normal working hours. Arrange for temporary water shutoff with Owner.
- E. Coordinate irrigation systems work with landscape work specified in Division 2 Section 320000 - Landscape Planting.

1. Quick Couplers: Furnish quantity of units equal to 10% of amount of each size installed, but not less than 1.
2. Sprinklers: Furnish quantity of units equal to 10% of amount of each type installed, but not less than 1.
3. Dripper Tube: Furnish quantity of units equal to 10% of amount of each type installed.
4. Valve Keys: Furnish quantity of two-handle units equal to 25% of amount of each type key-operated, but not less than 2 each.
5. Quick Coupler Hose Shanks: Furnish quantity of units equal to 25% of amount of each type quick coupler installed, but not less than 2.
6. Quick Coupler Operating Keys: Furnish quantity of units equal to 25% of amount of each type quick coupler installed, but not less than 3.

1.10 EXTRA MATERIALS

- A. Deliver extra materials to Owner. Furnish extra materials matching products installed as described below. Package them with protective covering for storage and label clearly describing contents.
  1. Quick Couplers: Furnish quantity of units equal to 10% of amount of each size installed, but not less than 1.
  2. Sprinklers: Furnish quantity of units equal to 10% of amount of each type installed, but not less than 1.
  3. Dripper Tube: Furnish quantity of units equal to 10% of amount of each type installed.
  4. Valve Keys: Furnish quantity of two-handle units equal to 25% of amount of each type key-operated, but not less than 2 each.
  5. Quick Coupler Hose Shanks: Furnish quantity of units equal to 25% of amount of each type quick coupler installed, but not less than 2.
  6. Quick Coupler Operating Keys: Furnish quantity of units equal to 25% of amount of each type quick coupler installed, but not less than 3.

1.11 WARRANTY/GUARANTEE

- A. During the period of one (1) year from and after the final acceptance of the completed irrigation system, the Contractor shall at his own expense, make all needed repairs or replacement due to defective workmanship or materials which in the judgment of the Owner or Owner's representative, shall become necessary during that period. If, within seven (7) calendar days after mailing of notification or verbal communication by the Owner to the Contractor or his agent, requesting such repairs or replacement, the Contractor shall, without charge, make such repairs or replacement, the Contractor shall be responsible for the cost of the Contractor's expense. In the case of emergency where, in the judgment of the Owner, delay could cause serious loss, hazard or damage to persons or property, then repairs, replacement and security, both temporary and/or permanent, may be provided by such persons as the Owner may employ after verbal communication with Contractor without notice being sent to the Contractor, and the Contractor shall pay all costs related thereto.
- B. The guarantee shall be in the form of a letter from the Contractor addressed to the Owner. The letter shall incorporate the language stated above and be signed by an authorized agent/representative or Owner of the Contractor.
- C. During the guarantee period, the Contractor will drain the system in the fall and put the system back into operation in the Spring. This work shall be done in the presence of the Owner's representative and maintenance personnel.

1.12 RECORD DRAWINGS

- A. Any deviation from plan layout should be indicated on the final "Record" Drawings. This Contractor shall make an exact measured and dimensioned drawing showing locations of all piping, wiring, control, valves and quick coupler valves.
- B. Record Drawings shall be furnished to the Landscape Architect at the time of Substantial Completion Inspection before a letter of Substantial Completion for the irrigation system will be issued.
- C. The Contractor shall provide the Landscape Architect with record drawing information in AutoCAD format before final acceptance of the irrigation system. The following shall be included on Irrigation Record Drawings. In addition, provide a reduced color-coded drawing(s) showing all zones and assigned valves.

1. Note all points of connection (P.O.C.) include tap size, line size and static water pressure (P.S.I.) of service.
2. Provide name and phone number of the servicing water purveyor include the name and date the installer was contacted and the date the as-built drawing was approved.
3. Accurately locate the following major components by dimension and their size as installed on the project. (But not limited to the following):
  - Pressure Regulators
  - Water Meters
  - Backflow Preventers
  - Pressure Reducing Valves (note pressure settings)
  - Filters
  - Stop and Waste
  - Master Control Valves
  - Control Water Junction Boxes
  - Pumps
  - Flow Sensors
  - Remote Control Valves (note station assignment, size flow rate, pressure setting, O.U. and actual flow rate, if available from water audit)
  - Drip System Pressure Regulators and Filters
  - Quick Couplers and Hose Bids
  - Pressure Main Lines and Future P.O.C.'s
  - Manual Drain Valves and Sumps
  - Remote Control Valve (label both ends in existing job)
  - Controller Location(s) (Note manufacturer, model, size and number of station used)
  - Note and identify location(s) of junction utility boxes as encountered during installation, i.e., gas, phone, sewer, etc.
  - Air Release Valves

4. Indicate and show the following additional components installed on the project:

- All Sprinkler Heads
- Lateral Lines and Sizes
- Lateral Lines Sleeves and Sizes
- Manual or Automatic Flush Valves

1.13 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver irrigation system components in manufacturer's original undamaged and unopened containers with labels intact and legible.
- B. Deliver plastic piping in bundles, packaged to provide adequate protection of pipe ends, both threaded or plain.
- C. Store and handle materials to prevent damage and deterioration.
- D. Provide secure, locked storage for valves, sprinkler heads, and similar components that cannot be immediately replaced, to prevent installation delays.

PART 2 - PRODUCTS

- 2.1 MANUFACTURERS
  - A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the work include, but are not limited to, the following:
  - B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    1. Pressure Regulators
      - a. Bernad.
      - b. Conbraco Industries, Inc.
      - c. Honeywell
      - d. Watts Regulator Co.
      - e. Wilkins Regulator Div., Zurn Industries, Inc.
    2. Backflow Prevention
      - a. Rain Bird Sprinkler Mfg. Corp. (Design Standard)
      - b. Lemco

- a. Flow Valve Co. Div., McWane, Inc.
- b. Kennedy Valve Div., McWane, Inc.
- c. Stockham Valves & Fittings, Inc.
- d. Watertown Co.
- e. Ferguson Station for Underground Installation
- f. Rain Bird Mfg. Box Co., Inc.
- g. Hays Div., Rome, Industries.
- h. A.V. McDonald Mfg. Co.
- i. Mueller Co., Grinnel Corp.
- j. Valves for Aboveground and Not Installation
  - a. Grinnel Supply Sales Co., Grinnel Corp.
  - b. Nibo, Inc.
  - c. Stockham Valves & Fittings, Inc.
  - d. Walworth Co.
  - e. Watts Regulator Co.
- k. Automatic Control Valves
  - a. Rain Bird Sprinkler Mfg. Corp. (Design Standard)
  - b. Hunter Industries
  - c. Toro Irrigation
- l. Control Valve Boxes
  - a. Ametek by Plymouth Products Div., AMETEK
  - b. Brooks Products, Inc., Polyplastics Div.
  - c. Canco Industries, Inc.
  - d. DFW/HPI by Heiko Plastics, Inc.
  - e. National Diversified Sales, Inc.
- m. Quick Couplers
  - a. Rain Bird Sprinkler Mfg. Corp. (Design Standard)
  - b. Hunter Industries
  - c. Toro Irrigation
- n. Sprinklers
  - a. Rain Bird Sprinkler Mfg. Corp.
  - b. Hunter Industries
  - c. Toro Irrigation
- o. Dripper Tubes, and Devices
  - a. Neatlin, Inc. (Design Standard)
  - b. Hunter Industries
  - c. Toro Irrigation
- p. Valve Keys
  - a. Rain Bird Sprinkler Mfg. Corp.
  - b. Hunter Industries
  - c. Toro Irrigation
- q. Pacific Western Extruded Plastics Co.
- r. Eagle Pacific Industries, Inc.
- s. L-M Manufacturing Company, Inc.
- t. Joint Assembly
- u. Rain Bird Sprinkler Mfg.
- v. Hunter Industries
- w. Toro Irrigation
- x. Neatlin, Inc. (Design Standard)
- y. Dwyer
- z. Backflow Prevention Device
  - a. Fefco
  - b. Watts Regulator Co.
  - c. Conbraco Industries, Inc.
- aa. Controller
  - a. Rain Bird Sprinkler Mfg. Corp.
  - b. Hunter Industries
  - c. Toro Irrigation

2.2 PIPES AND TUBES

- A. Refer to Part 3 Article "Piping Applications" for identification of systems where pipe and tube materials specified below are used:
  1. Polyvinyl chloride (PVC) Plastic Pipe: ASTM D 1785, PVC 120, Schedule 40, 160 psig (1100 kPa) minimum pressure rating for 3-inch (102 mm) and smaller sizes, with flange, threaded end.
  2. PVC Socket Fittings: Schedule 40; ASTM D 2466.
  3. Polyvinyl Chloride (PVC) Plastic Pipe: ASTM D 1785, PVC 120 compound, Schedule 80, 160 psig (1100 kPa) minimum pressure rating for 3-inch (102 mm) and smaller sizes, with flange, threaded end.
  4. PVC Threaded Fittings: Schedule 80; ASTM D 2464.
  5. PVC, Pressure-Rated Pipe: ASTM D 2241, PVC 1120 compound, SDR 21 End and Ring for pipe 4" and larger.
  6. Flexible Polyethylene Pipe: Rohb Drn 3PVC-Flex-100, Nominal Inside Dia. 3/4" pressure rated at 80 psi or larger.
- B. Refer to Part 3 Article "Piping Applications" for identification of systems where pipe and tube fittings specified below are used:
  1. Cast-Bronze Flanges: ASME B16.24, Class 150, raised ground face, bolt holes spot faced.
  2. Polyvinyl Chloride (PVC) Plastic Pipe Fittings: ASTM D2467, Schedule 80, socket-type and ASTM D2464, Schedule 40, threaded fittings.
  3. Polyvinyl Chloride (PVC) Plastic Pipe Fittings: ASTM D2467, Schedule 40, socket-type and ASTM D2464, Schedule 40, threaded fittings.
  4. Polyvinyl Chloride (PVC) Plastic Pipe Fittings: ASTM D2241, PVC 1120 compound, SDR 21.
  5. Polyvinyl Chloride (PVC) Plastic Pipe Fittings: ASTM D2467, Schedule 40, socket-type.
  6. Ductile Iron: Deep Socket Cast Iron Fittings: ASTM A536, 30 on all main line pipe 2 1/2" or larger.
- C. Mechanical Joints: Mechanical Joint Steel Bittings: AWWA A210
- D. Hose Connections: Rain Bird SB Series Spiral Bitts for 7" and 5" inlet sprinklers. Max operating pressure 80 psi and 8 gpm.

2.3 JOINING MATERIALS

- A. Refer to Division 15 Section "Basic Mechanical Materials and Methods" for joining materials not included in this Section.
- B. Solvent Cement: ASTM F799 primer and weld-on IPS PVC 711, plastic pipe and fittings manufacturer.
- C. Gaskets for Plastic Flanged Joints: ASTM D2264 solvent cement in color other than orange. Weld-on IPS PVC 711 primer and weld-on IPS PVC 711, plastic pipe and fittings manufacturer.
- D. Gaskets for Plastic Joints: Trans gaskets as recommended the fittings manufacturer.

2.5 VALVES

- A. General: Valves are for general-duty and underground applications. Refer to "Valve Applications" Article for locations of various valve types specified in this Article. Refer to "Control Valves" Article for control valves and accessories and "Backflow Prevention" Article for backflow prevention valves.
- B. Nonrising Stem Gate Valves 3-inches (DN 80) and Larger: AWWA C500, cast-iron double disc, bronze disc and seat rings or AWWA C504, resilient seated, bronze stem, cast-iron, or ductile-iron body and bonnet, stem nut, 250 psi (1700 kPa) working pressure, and ends that meet NPS dimension. PVC pipe: Include elastomeric gaskets. All gaskets shall be resilient, domestic type gate valves.
- C. Valve Boxes: Cast-iron box with top section and cover with lettering "WATER," bottom section with base to fit over valve and barrel approximately 5-inches (127 mm) in diameter, and adjustable cast iron extension of length required for depth of bury of valve.
  1. Provide steel steel handle shaft nut with each service box. Include two handle, shaft nut with one pointed end, stem of length to operate valve, and end fitting valve operating nut.
- D. Curb Stops 2-inches (DN 50) and Smaller: bronze body, ground key ring or ball, 150 psi (1035 kPa) minimum pressure rating, wide line head, with inlet and outlet to suit application.
- E. Service Boxes for Curb Stops: Cast-iron box with telescoping top section of length required for depth of bury of valve. Include cover with lettering "WATER" and bottom section of base of size to fit over curb stop and barrel approximately 3-inches (75 mm) in diameter.
  1. Provide steel steel handle shaft nut with each service box. Include two handle, shaft nut with one pointed end, stem of length to operate curb stop, and slotted end fitting curb stop head.
- F. Bronze, Nonrising Stem Gate Valves, 2-inches (DN 50) and Smaller: MSS SP-80, Type 1, solid wedge, nonrising, copper-aluminum alloy, Class 125, body and screw bonnet of ASTM B 62 cast bronze, with threaded or solder-joint ends. Include polytetrafluoroethylene (PTFE) - impregnated packing, brass packing gland, and non-lead-ion non-leached.

- F. Plastic Valves: Polyvinyl chloride (PVC) Plastic, with 150 psi (1035 kPa) minimum pressure rating, ends compatible to piping where valve is to be installed, and two handle.
- G. Ball Valves: Ball valves shall be solid bronze meeting Federal Specification WWS-54, CLASS A, Type I. Size shall be the same size as the main line on which it is installed. Valves shall be installed on the up-stream side of the electric remote control valve manifold and in the same valve box. NOTE: Only one (1) ball valve required per manifold.
- H. Stop and Waste Valves: Stop and waste valves shall be solid bronze meeting Federal Specification WWS-54, CLASS A, Type I. Provide on 8" round valve box over the PVC stand pipe.
- I. Drain Valves: All drain valves shall be 1/2" brass full port ball cocks and installed as per details on the Drawings. Valves shall be tested for 150 psi working pressure. This valve is to be installed on mainlines only.
- J. Valve Box Isolations: Provide a domestic brass ball valve with a minimum 200 psi rating. Valve shall be on an Apollo model 70 series or approved equal.

2.6 BACKFLOW PREVENTERS

- A. Description: ASME Standard backflow preventers, of size indicated for maximum flow rate and maximum pressure loss indicated:
  1. Working Pressure: 150 psig (1035 kPa) minimum except where otherwise indicated.
  2. 2-inches (DN 50) and Smaller: Bronze body with threaded end.
  3. 2 1/2-inches (DN 65) and Larger: Bronze, cast-iron, steel or stainless-steel body with flange ends.
    - a. Interior Protective Coating: AWWA C550, epoxy coating for backflow preventers with cast-iron or steel body.
  4. Interiors: Composite: Conserve-resistant materials.
  5. Strainer supplied with and compatible for size and capacity with unit, on inlet, where strainer is indicated.
  6. Reduced-Pressure-Principle Backflow Preventer: ASME 1015, with (OS&Y) gate valves on inlet and outlet and strainer on inlet. Include test cocks and pressure differential relief valve with ASME A112.1.2 air-gate filling located between two positive-sealing check valves for continuous pressure application.
    1. Pressure Loss: 15 psig (103 kPa) maximum, through middle third of flow range.
    2. Gate valves supplied with and compatible for size and testing of cast iron inlet and outlet. Valves 2-inches (DN 50) and smaller may be ball valves if these are unit manufacturer's standard valve for this application.

2.7 CONTROL VALVES

- A. Description: Manufacturer's standard control valves for circuits, of type and size indicated, and as follows:
  1. Provide cast-bronze bodies, unless otherwise indicated.
  2. Manual Control Valves: MSS SP-80, Class 125, globe valves.
  3. Key-Operated, Manual Control Valves: MSS SP-80, Class 125, globe valves, fitted for key operation.
  4. Automatic Control Valves: Diaphragm-type, normally closed, with manual flow adjustment, and operated by 24-volt a.c. solenoid.
- B. Control Valve Boxes: Canco Brooks Polytelene (PE), or approved equal, box and cover. Size as required for application.
  1. Drivage Beddels: Cleaned 1" x 8 gsg over or crushed stone, 6" deep.
  2. Foundation: Provide a pressure treated foundation of 4"x4" lumber.
- C. Valve boxes shall be of sufficient size to house electric remote control valves with emitters, and shall allow room for maintenance without having to excavate or perform similar operations. Boxes shall have lock down lids and shall meet ASTM D638 for tensile strength of 4,300 pounds per square inch.
  1. Limit the number valves per valve box. Service Boxes for Key-Operated Control Valves: Cast-iron box with telescoping top section of length required for depth of bury of valve, with cover with lettering "WATER" and bottom section with base of size to fit over curb stop and barrel approximately 3-inches (75 mm) in diameter.
- D. Include valve key, 3/8-inches (915 mm) long with top handle and key end to fit valve.

2.8 SPRINKLERS

- A. Description: Manufacturer's standard sprinklers designed to provide uniform coverage over area and spray pattern of various sizes, as follows:
  1. Housings: plastic, except where material is specified.
  2. Pop-up: Spray: Fixed pattern, with screw-type flow adjustment and stainless steel retaining ring.
  3. Pop-up, Rotary Spray: Guard, clear, drive-cable and adjustable part-circle type.
  4. Bubbler: Fixed pattern, with screw type flow adjustment.
- B. AUTOMATIC CONTROL SYSTEM
  - A. Description: Low-voltage controller system made for control of irrigation system automatic control valves. Controller operates on 120 volts a.c. building power system, provides 24 volts a.c. power to control valves.
  - B. Connect all valves to existing base line controller.
  - C. Lighting Protection: Provide manufacturer's standard lightning protection on wiring and devices.
  - D. Wiring: UL 483, solid copper conductor, insulated cable, suitable for direct burial.
  1. Feeder Circuit Cables: Type UF, No. 14 AWG minimum, with type PE39.
  2. Control Wiring: Rain Bird, Max/Icon signal communication wire, Type PCB3.
- C. Valve wire sizing chart: See Appendix A at end of section.

2.10 SLEEVES

- A. Sleeve Type: Provide Deep-1" Sleeve Magnets for marking irrigation sleeves.

2.11 IDENTIFICATION

- A. Refer to Division 2 Section "Earthwork" for underground warning tapes.
- B. THURST BLOCKS
  1. All fittings adjacent to thrust blocks shall be wrapped in plastic sheathing to guard against interfering with any future disassembly of fitting or pipe.
  2. All main lines shall have a thrust block of poured concrete installed at each change of direction. The thrust block shall be of sufficient size for the pipe involved and rest on undisturbed ground. Construct as follows:

STEP 1.

Multiply the working pressure by the appropriate value shown in the following table to obtain total thrust in lb (N):

PIPELINE THRUST FACTORS \* \*

Pipe size		Dead end	90°	45°	22°	
	in	mm	90°	45°	22°	90°
3"	89	9.80	13.90	7.51	3.82	
3 1/2"	102	12.80	18.10	9.81	4.99	
4"	114	16.20	23.00	12.40	6.31	
5"	141	24.70	35.00	18.90	9.63	
6"	168	34.80	49.20	26.70	13.60	
8"	219	56.80	85.50	45.20	23.00	
10"	273	91.50	130.00	70.00	35.30	
12"	324	129.00	182.00	98.50	50.00	

\* Based on thrust per kPa (PSI) pressure.

\* Blocking for cross may not be needed with long branch lines.

STEP 2.

Determine the bearing strength of the soil from the table below:

BEARING STRENGTH OF SOILS

Soils and pipe bearing limits	Soils	kPa	PSI
Sound shale		10,000	500
Cemented gravel and sand		4,000	200
Coarse sand, well sorted		3,000	150
Medium clay - can be spaded		2,000	100
Soft clay		1,000	50
Muck		0	0

See Soils Report for soil type

STEP 3.

Divide the total thrust obtained in Step 1 by the bearing strength of the soil to get the area needed, m<sup>2</sup>(ft<sup>2</sup>).

SIDE THRUST ALTERNATIVE PROCEDURE

Pipe size	in.	mm	Thrust per deg. deflection
3"	89	17.10	76.10
3 1/2"	102	22.40	92.60
4"	114	28.30	116.90
5"	141	43.10	191.90
6"	168	60.80	270.20
8"	219	103.00	458.50
10"	273	160.00	711.70
12"	324	226.00	1,000.80

\* Based on side thrust per 689 kPa (100 PSI) pressure per degree of deflection.

NOTE: Multiply side thrust from table by



IRRIGATION SYSTEMS

SECTION 32840 - IRRIGATION SYSTEMS

3.1 TRENCHES:

- A. Trenches shall be dug as wide and deep as necessary to properly place the sprinkling system according to the requirements herein. Any rock encountered in the excavation shall not be left in the backfill. All excess rock shall be removed from the site by the Contractor and legally disposed of off the property. All trenches shall be backfilled and compacted to insure no settling of the surface, after the lawn is planted.
- B. If backfill soil is rocky or lumpy, protect the pipe and the pipe conduit with 8" of sand or loose, rock free, soil under, over and on sides of pipe. Avoid putting large rocks against pipe during backfilling operation. See detail.
- C. All trenches must be compacted to 90% in 6" lifts and watered in. Lines from control valves shall be installed after topsoil is in place and properly graded.
- D. This Contractor, in placing the sprinkling lines, etc., may uncover material not suitable for finished grading. This material shall be removed from the site by the Contractor. After the installation of the lines, the finished grading shall be smoothed over and restored to its original condition, using additional topsoil at this Contractor's expense, if this is necessary. The upper 6" of topsoil removed in the excavation of trenches for pipeline shall be conserved and kept separate from subsoil and reinstalled without mixing with other soil.
- E. Trenches where more than one pipe is to be installed, a distance of 6" is to be maintained between each pipe. No exceptions.
- F. All trenches are to be 12" away from all curbs, buildings and sidewalks. No exceptions.

3.8 PIPING INSTALLATION

- A. Install underground polyvinyl chloride (PVC) plastic pipe according to ASTM D 2774.
- B. Lay piping on solid sub-base, uniformly sloped without humps or depressions.
1. Slope circuit piping down toward drain valve minimum of 1/8-inch in 10-feet (1/240).
2. Install polyvinyl chloride (PVC) plastic pipe in dry weather when temperature is above 40 deg. F (4 deg. C). Allow joints to cure at least 24-hours at temperature above 40 deg. F (4 deg. C) before testing, unless otherwise recommended by manufacturer.
- C. Drain Pockets: Excavate to sizes indicated. Backfill with cleaned gravel and crushed stone, graded from 3-inches (75 mm) to 1/2-inch (12mm) minimum, drain material to 12-inches (300 mm) below grade. Cover drain material with sheet of ASTM D 328, Type II, asphalt-saturated felt and backfill remainder with excavated material. Drain pocket to be minimum 6 cubic feet.
- D. Minimum Cover: Provide following minimum cover over top of buried piping:
1. Pressure Piping: Greater depth of minimum of 18-inches (600 mm) below finished grade.
2. Circuit Piping: 12-inches (360 mm).
3. Drain Piping: 12-inches (360 mm).
4. Sleeves: 18-inches (600 mm).
- E. Install piping under sidewalks and paving in sleeves.
- F. All pipe threads shall be sealed with Teflon tape and pipe thread compound.
- G. All glue joints to be set 24 hours prior to pressurization.

3.9 FLUSHING AND PRELIMINARY TESTING

- A. Flush and test each zone after installation of new piping, swing pipe and prefill swing joint, but before installation of heads and before backfilling is complete. Open control valve completely and flush with a full head of water. Each automatic valve shall then be disassembled, inspected for rocks, cleaned and re-assembled. Install heads and test each zone for coverage.
- B. Testing will be performed after completion of each circuit and again after the completion of the entire system. All repair work will be made at the contractor's expense.

3.10 BACKFLOW PREVENTER INSTALLATION

- A. Install backflow preventers of type, size, and capacity indicated. Include valves and test cocks. Install according to plumbing code and health department authorities with jurisdiction.
- B. Install pressure-type vacuum breakers minimum of 12-inches (300 mm) above downstream piping system.
- C. Do not install bypass around backflow preventer.
- D. Do not install backflow preventers with drains or vents in pits or areas subject to flooding.
- E. Support backflow preventers, valves, and piping on 3,000 psi (20.7 MPa) minimum, Portland-Cement-Mix concrete piers.

3.11 VALVE APPLICATIONS

- A. Drawings indicate valve types to be used. Where specific valve types are not indicated, following requirements apply:
1. Buried Valves 3-inches (DN 80) and Larger: ANWW, gate valves, non-rising stem, with stem nut and valve box.
2. Buried Valves 2-inches (DN 50) and Smaller: Bronze-body, curb stop, with tee head, service box and shutoff rod.

3.12 VALVE INSTALLATION

- A. Valves: Install underground valves in valve boxes or pits.
1. Install valves and SCH 80 polyvinyl chloride (PVC) pipe with restrained, gasketed joints.
2. Do not install at low spots.
3. Install all valves with SCH 80 PVC pipe running through the manifold. SCH 80 PVC to extend to the outside edge of the valve box on each side.
- B. Curb Stops: Install underground curb stops in service boxes.
- C. Control and Ball Valves: Install in valve control valve boxes, arranged for easy adjustment and removal. Install unions with one (1) on upstream side at each valve manifold.
- D. Control valves shall be located as close as possible to where shown on drawings. Avoid locating valves in areas of high pedestrian or vehicular traffic.
- E. Provide isolation valve at all valve bank locations.

3.13 VALVE WIRING

- A. Connect all valves to the irrigation control system as per manufacturer's recommendations.
1. Valve wire installations wiring shall be enclosed in adequate size PVC electrical conduit.
2. All splices shall be enclosed in a plastic valve box and noted on "as built" drawings.
3. At Y in two wire paths "Page Decoder cable fuse device" shall be installed or equivalent
- B. All splices shall be enclosed in a plastic valve box and noted on "as built" drawings.
- C. Wires run in some trench as main pressure line or any other pipe shall be set a minimum of 4-in from pipe to allow for maintenance access. Wire shall run parallel to pipe and not wrap around or go under pipe unless core is taken to allow clearance for maintenance access.
- D. Grounding shall be done according to manufacturers specifications
1. Before the controller
2. Every five valves in field or 500ft.
3. Install line surge protector at termination of two wire path
- E. Each installed grounding system shall maintain a maximum ground resistance of 10 ohms, or less
5. Refer to the decoder manufacturer recommendations and documentation for proper specifications on grounding systems installation and grounding system design
6. Grounding rods shall be installed in plastic valve box and noted on "as built" drawings.

A grounding test shall be performed on all grounding elements paid for by the Contractor.

3.14 SPRINKLER INSTALLATION

- A. Sprinklers: Flush circuit piping with full head of water and install sprinklers after hydrostatic test is complete.
1. Install lawn sprinklers at manufacturer's recommended heights.

2. Install shrubbery sprinklers at heights indicated.
3. Locate port-circle sprinklers to maintain a minimum distance of 12-inches (400 mm) from walls and 2-inches (50 mm) from other boundaries, unless otherwise indicated.

- B. All sprinkler heads and valve boxes shall be set flush with finish grade unless otherwise specified. Contractor shall insure tops of heads and boxes remain at finish grade, and adjust as required. If any settlement occurs within the 1 year warranty period, the contractor will be required to place such areas back in satisfactory condition, using additional topsoil and new sod if necessary.

3.15 AUTOMATIC CONTROL SYSTEM INSTALLATION

- A. Install controllers according to manufacturer's written instructions and as indicated.
- B. Pedestal mount irrigation controller in the location shown and as directed by the Owner as per manufacturer's requirements.
- C. Run one extra wire from the adjacent controller to each group of valves for future use and stub into the valve box.
- D. Install control wiring in same trench with piping.
- 3.16 CONNECTIONS
- A. Connect piping to sprinklers, devices, valves, control valves, specialties, and accessories.
- B. Connect water supplies to irrigation systems. Include backflow preventers on potable water supplies. Include automatic filters on secondary water supplies.
- C. Electrical Connections: Connect to power source, controllers, and automatic control valves.
- D. Minimum requirements for electrical installations are specified in Division 16.
- E. Ground systems according to Division 16 Section "Grounding."

3.17 FIELD QUALITY CONTROL

- A. Testing: Perform hydrostatic test of piping and valves before backfilling trenches. Piping may be tested in sections to expedite work.
1. Cap and subject the piping system to a static water pressure of 50 psig (345 kPa) above the operating pressure without exceeding pressure rating of piping system materials. Isolate test source and allow to stand for 4-hours. Leaks and loss in test pressure constitute defects that must be repaired.
2. Repair leaks and defects with new materials and retest system or portion thereof until satisfactory results are obtained.
3. Notify Architect 24 hour in advance of pressure testing so test may be observed.

3.18 CLEANING AND ADJUSTING

- A. Flush dirt and debris from piping before installing sprinklers and other devices.
- B. Adjust automatic control valves to provide flow rate of rated operating pressure required for each sprinkler circuit.
- C. Carefully adjust lawn sprinklers so they will be flush with, or not more than 1/4-inch (13 mm) above, finish grade after completion of landscape work.
- D. Adjust settings of controllers and automatic control valves.

3.19 COMMISSIONING

- A. Starting Procedures: Follow manufacturer's written procedures. If no procedures are prescribed by manufacturers, proceed as follows:
1. Verify that specialty valves and their accessories have been installed correctly and operate correctly.
2. Verify that specified test of piping are complete.
3. Check that sprinklers and devices are correct type.
4. Check that damaged sprinklers and devices have been replaced with new materials.
5. Check that potable water supplies have correct type backflow preventers.
6. Energize circuits to electrical equipment and devices.
7. Adjust operating controls.
- B. Operational Testing: Perform operational testing after hydrostatic testing is completed, backfill is in place, and sprinklers are adjusted to final position.
- C. Provide irrigation system layout and diagram in CAD format with water zones clearly identified. Layout to be color coded with a maximum of 5 colors for easy legibility. Record water budget for each irrigation control zone and current settings. Provide laminated copy and mount near controller. Verify location with Architect.

3.20 DEMONSTRATION

- A. Demonstrate to Architect that system meets coverage requirements and that automatic controls function properly.
- B. Demonstrate to Owner's maintenance personnel operation of equipment, sprinklers, specialties, and accessories. Review operating and maintenance information.
- C. Provide 7-days' written notice in advance of demonstration.
- D. System Operation Test / Substantial Completion Inspection:
1. During the Substantial Completion Inspection, the entire system, both electric and hydraulic, will be tested in the presence of the Landscape Architect and the Owner's Representative to insure COMPLETE coverage of all areas to be watered. Any deficiencies identified at this time will require revisions by the Contractor at the Contractor's expense.

3.21 WINTERIZATION

- A. All irrigation systems are typically winterized October 15<sup>th</sup>. If the Substantial Completion Certificate has not been issued by this date, it will be the responsibility of the Contractor to work with the Owner to winterize the system. The Contractor to then be responsible to assist in the activation of the system in the Spring to insure there are no problems.

APPENDIX A  
ALLOWABLE AVERAGE DISTANCES FROM CONTROLLER TO VALVES

Valve Type	Valve Size	MAXIMUM AVERAGE DISTANCE FROM CONTROLLER TO VALVE (feet)				MAXIMUM AVERAGE DISTANCE FROM CONTROLLER TO VALVE (meters)				MAXIMUM AVERAGE DISTANCE FROM CONTROLLER TO VALVE (feet)				MAXIMUM AVERAGE DISTANCE FROM CONTROLLER TO VALVE (meters)			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1/2"	1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	3/4"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	1"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	1 1/4"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	1 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	2 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	3"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	3 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	4"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	4 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	5"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	5 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	6"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	6 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	7"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	7 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	8"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	8 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	9"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	9 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	10"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	10 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	11"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	11 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	12"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	12 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	13"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	13 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	14"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	14 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	15"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	15 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	16"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	16 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	17"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	17 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	18"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	18 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	19"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	19 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	20"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	20 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	21"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	21 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	22"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	22 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	23"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	23 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	24"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	24 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	25"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	25 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	26"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	26 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	27"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	27 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	28"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	28 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	29"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	29 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	30"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	30 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	31"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	31 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	32"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	32 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	33"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	33 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	34"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	34 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	35"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	35 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	36"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	36 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	37"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	37 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	38"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	38 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	39"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	39 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	40"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	40 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	41"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	41 1/2"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	42"	100	100	100	100	30	30	30	30	100	100	100	100	30	30	30	30
1/2"	42 1/2"	100	100	100	100	30											



DRIP IRRIGATION SYSTEMS  
SECTION 32840.1 - DRIP IRRIGATION SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes valves, piping, drip tube, sprinklers, specialties and accessories for drip irrigation systems. This Section does not override any of the requirements of section 032400.
- B. Field verify capacity of the existing irrigation system complete including but not limited to flow, capacity, controller operation.
- C. Related Sections: The following Sections contain requirements that relate to this Section:
- 1. Section 011000 "Summary".
  - 2. Section 329300 "Landscape Planting".
  - 3. Section 328400 "Irrigation System".
  - 4. Specification Section - Soils Report for reference only.

1.3 DEFINITIONS

- A. Piping sizes used in this Section are normal pipe size (NPS) in inches. Tube sizes are standard size in inches. Equivalent (S) (metric) sizes are indicated in millimeters (mm) in parentheses.
- B. Supply Piping: Piping from water source to connection to irrigation system pressure piping. Piping is under same pressure as water supply. Piping in this category is not included in this Section.
- C. Pressure Piping: Piping downstream from supply piping to and including control valves. Piping is under irrigation system pressure. Piping in this category includes pressure regulators, water meters, and backflow preventers, when used.
- D. Circuit Piping: Piping downstream from control valves to irrigation system sprinklers, emitters, devices, and drain valves. Piping is under pressure (less than pressure piping) during flow.
- E. Control Valve: Manual or automatic (electrically operated) valve for control water flow to irrigation system zone, including isolation or zone valves.

1.4 SYSTEM PERFORMANCE REQUIREMENTS

- A. Location of Drip line, Emitters and Devices: Design location is approximate. Make minor adjustments necessary to avoid planting and obstructions such as signs and light standards.

1.5 SUBMITTALS

- A. General: Submit the following according to the Conditions of the Contract and Division 1 Specification Sections.
- B. Product data including pressure rating, rated capacity, settings, and electrical data of selected models for the following:

1. Integral pressure-compensating, continuously self-cleaning, check valve and anti-drain drip line.
2. Pressure regulators.
3. Valves, including general-duty, underground, manual and automatic control, and quick-coupler types, and valve boxes.
4. Sprinklers and devices.
5. Flush Valves.
6. Filters.
7. Air/Vacuum Relief Valves.
8. Pipe, including sleeves, lateral, supply, conduit and drain.
- C. Maintenance data for inclusion in "Operating and Maintenance Manual" specified in Division 1 Section "Project Closeout" for the following:
1. Dripper line.
2. Pressure regulators.
3. Valves, including general-duty, underground, manual and automatic control, and quick-coupler types, and valve boxes.
4. Sprinklers and devices.
5. Flush Valves.
6. Filters.
7. Air/Vacuum Relief Valves.
8. Pipe, including sleeves, lateral, supply, conduit and drain.

1.6 QUALITY ASSURANCE

- A. Comply with requirements of utility jurisdiction for prevention of backflow and backpressure.
- B. Comply with requirements of authority with supplying for irrigation systems.
- C. Installer Qualifications: Engage an experienced installer who has completed minimum of 6 irrigation systems similar in material, design, and extent to that indicated for Project that have resulted in construction with a record of successful in-service performance.
- D. The successful contractor shall, at the time of bid and award, have at least one registered CIG (Irrigation Association) Contractor with a current certification and who is a direct employee of the Irrigation Contractor. The CIG shall meet with the University Landscape Maintenance Department on site at least weekly to review the progress of the work.

D. Electrical Components, Devices and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

D. Irrigation Components, Devices and Accessories: Listing, Label, or Other Marking: The manufacturer's markings and labels to be clearly stamped on all equipment, specialties, and accessories made to specified standards.

F. Product Options: Irrigation system piping, specialties, and accessories are based on specific types, manufacturers, and models indicated. Components with equal performance characteristics produced by other manufacturers may be considered, provided deviations in dimensions, operation, and other characteristics do not change design concept or intended performance as judged by the Architect, unless noted "No Substitutes". The burden of proof of product equality is on the Contractor. Refer to Division 1 Section "Product Substitutions." No requests for substitutions will be reviewed after bids have been received by Owner.

1.7 PROJECT CONDITIONS

- A. Perform site survey, research public utility records, and verify existing utility locations. Verify that irrigation system piping may be installed in compliance with original design and referenced standards.
- B. Site Information: Reports on subsurface condition investigations made during design of the Project are available for informational purposes only; data in reports are not intended as representations or warranties of accuracy or continuity of conditions drawn from this information. Owner assumes no responsibility for interpretations or conclusions drawn from this information.
- C. SEQUENCING AND SCHEDULING
- A. Maintain uninterrupted water service to building during normal working hours. Arrange for temporary water shutoff with Owner.
- B. Coordinate irrigation systems work with landscape work specified in Division 32 Section 328300 "Landscape Planting."

1.8 EXTRA MATERIALS

- A. Deliver extra materials to Owner. Furnish extra materials matching products installed as described below. Package them with protective covering for storage and label clearly describing contents.

1. Dripper Tube: Furnish quantity of units equal to 10% of amount of each type installed.

1.10 WARRANTY/GUARANTEE

- A. During the period of one (1) year from and after the final acceptance of the completed irrigation system, the Contractor shall at his own expense, make all needed repairs or replacements due to defective workmanship or materials which in the judgment of the Owner or Owner's representative, shall become necessary during such period. If, within seven (7) calendar days after mailing of the written notice or verified communication by the Owner to the Contractor or its agent, requesting such repairs or replacement, the Contractor shall

- neglect to make repairs, Owner may make such repairs at the Contractor's expense. In the case of emergency where, in the judgment of the Owner, delay could cause serious loss, hazard or damage to persons or property, then repairs, replacement and security, both temporary and/or permanent, may be provided by such persons as the Owner may employ, after verbal communication with Contractor without notice being sent to the Contractor, and the Contractor shall pay all costs related thereto.

- B. The guarantee shall be in the form of a letter from the Contractor addressed to the Owner. The letter shall incorporate the language stated above and be signed by an authorized officer/agent or Owner of the Contractor.
- C. During the guarantee period, the Contractor will drain the system in the fall and put the system back into operation in the spring. This work shall be done in the presence of the Owner's representative and maintenance personnel.

1.11 RECORD DRAWINGS:

- A. Any deviation from plan layout should be indicated on the final "Record" Drawings. This Contractor shall make an exact measured and dimensioned drawing showing locations of all piping, wiring, control, valves and quick coupler valves.
- B. Record Drawings shall be furnished to the Landscape Architect at the time of Substantial Completion Inspection before a letter of Substantial Completion for the irrigation system will be issued.
- C. The Contractor shall supply the Landscape Architect with record drawing information in AutoCAD format before final acceptance of the irrigation system.

1.12 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver irrigation system components in manufacturer's original undamaged and unopened containers with labels intact and legible.
- B. Deliver plastic piping in bundles, packaged to provide adequate protection of pipe ends, both threaded or plain.
- C. Store and handle materials to prevent damage and deterioration.
- D. Provide secure, locked storage for valves, sprinkler heads, and similar components that cannot be immediately replaced, to prevent installation delays.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the work include, but are not limited to, the following:
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Pressure Regulators
- a. Rain Bird Sprinkler Mfg. Corp.
  - b. Netatm USA
  - c. Hunter Industries
2. Automatic Control Valves
- a. Rain Bird Sprinkler Mfg. Corp. (Design Standard)
3. Control Valve Boxes
- a. Ametek by Plymouth Products Div., AMETEK
  - b. Brooks Products, Inc., Polyplastics Div.
  - c. Carson - Oldcastle.
4. Sprinklers
- a. Hunter Industries
  - b. Rain Bird Sprinkler Mfg. Corp.
  - c. Netatm USA
5. Filters
- a. Hunter Industries
  - b. Rain Bird Sprinkler Mfg. Corp.
  - c. Netatm USA
6. Flush Valves
- a. Hunter Industries
  - b. Rain Bird Sprinkler Mfg. Corp.
  - c. Netatm USA
7. Air/Vacuum Relief Valves
- a. Hunter Industries
  - b. Rain Bird Sprinkler Mfg. Corp.
  - c. Netatm USA
8. Pipe
- a. Pacific Western Extruded Plastics Co.
  - b. Eagle Plastic Industries, Inc.
  - c. J-M Manufacturing Company, Inc.

2.2 PIPES AND TUBES

- A. Refer to Part 3 Article "Piping Applications" for identification of systems where pipe and tube materials specified below are used.
- B. Polyvinyl Chloride (PVC) Plastic Pipe Fittings: ASTM D1585, Schedule 40, 160 pipe (1100 kPa) minimum pressure rating for 4-inch (100-mm) and smaller sizes, with plain, threaded or bell ends.

2.3 PIPE AND TUBE FITTINGS

- A. Refer to Part 3 Article "Piping Applications" for identification of systems where pipe and tube fittings materials specified below are used.
- B. Polyvinyl Chloride (PVC) Plastic Pipe Fittings: ASTM D2467, Schedule 40, socket-type and ASTM D2464, Schedule 40, threaded fittings.
- C. Polyvinyl Chloride (PVC) Plastic Pipe Fittings: ASTM D2467, Schedule 40, socket-type.

2.4 JOINING MATERIALS

- A. Refer to Division 15 Section "Basic Mechanical Materials and Methods" for joining materials not included in this Section.
- B. Solvent Cement: ASTM F696 primer and ASTM D2564 solvent cement in color other than white.
- C. 17 mm Fittings: Connections shall be made with drip line manufacturer approved fittings.

2.5 VALVES

- A. General: Valves are for general-duty and underground applications. Refer to "Valve Applications" Article for locations of various valve types specified in this Article. Refer to "Control Valves" Article for control valves and accessories and "Backflow Preventers" Article for backflow preventive valves.
- B. Plastic Valves: Polyvinyl Chloride (PVC) Plastic, with 150 psig (1035 kPa) minimum pressure rating, ends compatible to piping where valve is to be installed, and tee handle.
- C. Ball Valves: Ball valves shall be solid bronze meeting Federal Specification WW-V-35C, TYPE II COMPOSITION. RT, STYLE - 3. Size shall be the same size as the main line in which it is installed. Ball valves shall be installed on the up-stream side of the electric control valve manifold and in the same valve box. NOTE: Only one (1) ball valve required per manifold.

2.6 CONTROL VALVES

- A. Description: Manufacturer's standard control valves for circuits, of type and size indicated, and as follows:
- 1. Provide cast-bronze bodies, unless otherwise indicated.
  - 2. Manual Control Valves: MSS SP-80, Class 125, globe valves.
  - 3. Key-Operated Manual Control Valves: MSS SP-80, Class 125, globe valves, fitted for key operation.
- B. Hose Bibbs: Factory-fabricated assembly. Include coupler water valve. Threads for garden hose or outlet; hose bibb to be in upright position.
- C. Control Valve boxes: Polyethylene (PE), acrylonitrile-butadiene-styrene (ABS), fiberglass, polymer concrete, or precast concrete box and cover. Size as required for application.
- D. Drainage Backfill: Cleaned gravel or crushed stone, graded from 3-inches (75 mm) maximum to 1/4-inch (19 mm) minimum.

2. Valve boxes shall be of sufficient size to house two (2) electric remote control valves with unions, and still allow room for maintenance without having to excavate or perform similar operations. Boxes shall have lock down lids and shall meet ASTM D638 for tensile strength of 4,300 pounds per square inch.

2.7 SPRINKLERS

- A. Description: Manufacturer's standard 1/2" pop up sprinklers used as a flag to indicate that the drip system is operating, as follows:

1. Pop-up, Spray: Fixed pattern, with screw-type flow adjustment and stainless steel retention spring.

2.8 DRIP LINE AND INTEGRAL DRIPPER LINE COMPONENTS

- A. The dripper shall be CV pressure compensating dripper line 17mm, dripper line as manufactured by Netatm irrigation, Inc. or approved equal. Dripper flow rate spacing shall be as indicated on drawings.

1. 17mm fittings: All connections shall be made with manufacturer approved 17mm insert fittings.
2. Soil Staples: All air-ways under much drippe installations shall be held in place with Soil Staples spaced evenly every 3' to 5', on center, and with two staples on each change of location.
3. Pressure Regulator: A pressure regulator shall be installed at each zone valve or on the main line to ensure operating pressures do not exceed system requirements. The pressure regulator shall be a Netatm or Rainbird Pressure Regulator for low flow inline applications. For flows greater than 5 gpm or 1 zones or 11 gpm or 1-1/2 zones the PRV shall be Netatm. Model number as indicated on drawings.
4. Disc Filter: A disc filter shall be installed at each zone valve or on the main line to ensure proper filtration. The filter shall be a Netatm or Rainbird Disc Filter, Model number and mesh as indicated on drawings.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Investigate and determine available water supply, water pressure and flow characteristics.

3.2 PIPING APPLICATIONS

- A. Refer to Part 2 of this Section for detailed specifications for pipe and fittings products listed below. Use pipe, tube, fittings, and joining materials from the following applications. Piping in pits and aboveground may be joined with flanges instead of joints indicated.
- B. Use pipe, tube, fittings, and joining methods according to the manufacturer's specification and the following applications.
- C. Circuit Piping: Use the following:

1. 3-inches (DN 80) and Smaller: ASTM D 2241, SDR 17, polyvinyl chloride (PVC) plastic pipe. ASTM D 2467, Schedule 40, PVC plastic, socket-type pipe fittings, and solvent-cemented joints.
- D. Branches and Offsets at Sprinkler and Devices: ASTM D 1785, Schedule 80, polyvinyl chloride (PVC) plastic pipe with threaded ends; ASTM D 2464, Schedule 80, PVC plastic, threaded fittings, and threaded joints.
- E. Sleeves: ASTM D 1785, Schedule 40, polyvinyl chloride (PVC) plastic pipe; ASTM D 2466, Schedule 40, PVC plastic, socket-type fittings, and solvent-cemented joints.

3.3 JOINT CONSTRUCTION

- A. Polyvinyl Chloride (PVC) Piping Solvent-Cemented Joints: Construction joints according to ASTM D 2812 and ASTM D 2855.
1. Handling of Solvent Cements, Primers, and Cleaners: Comply with procedures in ASTM F 402 for safe handling when joining plastic pipe and fittings with solvent cements.

3.4 PIPING SYSTEMS - COMMON REQUIREMENTS

- A. General Locations and Arrangements: Drawings indicated general location and arrangement of piping systems. Indicated locations and arrangements were used to size pipe and calculate friction loss, and in other design considerations. Install piping as indicated, except where deviations to layout are approved on coordination drawings.
- B. Install piping at a uniform slope of 6-inches per 100-feet (1:200) minimum, down to drain points.
- C. Install components having pressure rating equal to or greater than system operating pressure.
- D. Install piping free of sags and bends.
- E. Locate groups of pipes parallel to each other, spaced to permit valve servicing.
- F. Install fittings to changes in direction and branch connections.
- G. Piping Connections: Except as otherwise indicated make piping connections as specified below.
1. Install unions, in piping 2-inches (DN 50) and smaller, adjacent to each valve and at final connection to each piece of equipment having 2-inch (DN 50) or smaller threaded pipe connection.

3.5 TRENCHES:

- A. Trenches shall be dug as wide and deep as necessary to properly place the sprinkling system according to the requirements herein. Any rock uncovered in this excavation shall not be left in the backfill. All excess rock shall be removed from the site by this Contractor and legally disposed of off the property. All trenches shall be backfilled and compacted to insure no settling of the surface, after the lawn is planted.
- B. If backfill soil is rocky or lumpy, protect the pipe and the pipe conduit with 1/4" of sand or loose, rock free, soil under, over and on sides of pipe. Avoid putting large rocks against pipe during backfilling operation.
- C. All trenches must be compacted to 90% in 6" lifts and watered in. Lines from control valves shall be installed after topsoil is in place and properly graded.

- D. This Contractor, in placing the sprinkling lines, etc., may uncover material not suitable for trench backfilling. This may be the Contractor's responsibility. The Contractor shall be the installer of the lines, the finished grading shall be smoothed over and reseeded to its original condition, using additional topsoil at this Contractor's expense, if this is necessary. The upper 6" of topsoil removed in the excavation of trenches for pipeline shall be composed and kept separate from subsoil and reinstalled without mixing with other soil.

- E. Trenches where more than one pipe is to be installed, a distance of 6" is to be maintained between each pipe.
- F. All trenches are to be 12" away from all curbs, buildings and sidewalks. No exceptions.

3.6 PIPING INSTALLATION

- A. Install underground polyvinyl chloride (PVC) plastic pipe according to ASTM D 2774.
- B. Lay piping on solid sub-base, uniformly sloped without humps or depressions.
1. Slope correct piping down toward drain valve minimum of 1/4-inch to 16 (1:240).
2. Install polyvinyl chloride (PVC) plastic pipe in dry weather when temperature is above 40 deg. F (4 deg. C). Allow pipes to cure at least 24-hours at temperature above 40 deg. F (4 deg. C) before testing, unless otherwise recommended by manufacturer.
- C. Minimum Cover: Provide following minimum cover over top of buried piping:
- 1. Lateral Line Piping: 16".
  - 2. Main Line Pipe: 24".
  - 3. Inline Emitter Tubing: 2".
- D. Install piping under sidewalks and paving in sleeves.

3.7 DRIP LINE INSTALLATION

- A. Install all drip line as indicated on drawings. Use only Teflon tape on all threaded connections.
- B. When installing drip line on surface, install soil staples as listed below:
- 1. Sand Soil: One staple every three (3) feet and two (2) staples on each change of direction (see, below, or cross).

2. Loam Soil: One staple every four (4) and two (2) staples on each change of direction (see, below or cross).
3. Clay Soil: One staple every five (5) feet and two (2) staples on each change of direction (see, below or cross).
- C. Cap or plug all openings as soon as lines have been installed to prevent the entrance of materials that would obstruct the pipe. Leave in place until removal is necessary for completion of installation.
- D. Install tee Netatm or approved equal operation flags, per each drip line system. Netatm operation flags shall be used to notify and indicate location of the drip system.
- E. Thoroughly flush all water lines before installing valves, emitters and other hydrants.
- F. Test in accordance with Manufacturers recommendations.

3.8 VALVE INSTALLATION

- A. Valves: Install underground valves in valve boxes or pits.
- 1. Install valves and polyvinyl chloride (PVC) pipe with restrained, gasketed joints.
- B. Control and Ball Valves: Install in valve control valve boxes. All of the devices in the manifold shall be spaced such that all of the devices are fully operational and accessible for maintenance purposes. Manifold shall include the following devices, in this order:
- 1. Brass Isolation Valve.
  - 2. Automatic valve of the appropriate size.
  - 3. Manifold union.
  - 4. Disc filter with 140 mesh disc filter ring, of appropriate size.
  - 5. Inline pressure regulator valve of appropriate size and flow.
  - 6. Manifold union.

3.9 SPRINKLER INSTALLATION

- A. Sprinklers: Flush circuit piping with full head of water and install sprinklers after hydrostatic test is complete.
- 1. Install shrubby sprayers at heights indicated.

3.10 DRAINS:

- A. All lines shall be sloped to drain. A minimum of drains should be used. Extra drain valves necessitated by unforeseen field conditions to make the system drain shall be provided by the Contractor and approved by the Landscape Architect.
- B. A suitable gravel sump shall be provided for each drain, minimum of 6" below the finished grade. A sump shall be a 2-1/2 diameter hole fitted with gravel 2" above and 12" below the drain.

3.11 DRIP FILTERS:

- A. Filters shall be installed immediately after the electric valve and before the pressure regulator. The main body of the filter shall be installed at a slight downward angle so the dirt and debris will collect in the removable cap. An appropriate valve box shall be used to insure easy access to the filter for cleaning purposes.

3.12 DRIP SYSTEM PRESSURE REGULATORS:

- A. Due to the high flows involved with a Teflon system compared to other drip systems it is important to only use the Netatm high flow (20 GPM) 4 PSI regulators. The regulators shall be installed after the filters and must not be buried, but shall be accessible for inspections and maintenance.

3.13 MANUAL FLUSH VALVES:

- A. These valves serve to provide flushing during installation and in case of major breaks or contamination in the system. They shall be installed one for each dead end and low point in the system. Use flush valves shall be placed in a 10 round box, stabilized on brick and with a 12" gravel sump below each valve.

3.14 FIELD QUALITY CONTROL

- A. Testing: Perform hydrostatic test of piping and valves before backfilling trenches. Piping may be tested in sections to expedite work.
- 1. Cap and subject the piping system to a static water pressure of 50 psig (345 kPa) above the operating pressure, but not less than 100 psig without exceeding pressure rating of piping system materials. Isolate test source and allow to stand for 4-hours. Leaks and loss in test pressure constitute defects that must be repaired.
  - 2. Repair leaks and defects with new materials and retest system or portion thereof until satisfactory results are obtained.
- B. Notify Architect and University Landscape Maintenance Department Representative 24 hours in advance of pressure testing so test may be observed.

3.15 CLEANING AND ADJUSTING

- A. Flush dirt and debris from piping before installing sprinklers and other devices.
- B. Adjust automatic control valves to provide flow rate of rated operating pressure required for each sprinkler circuit.

3.16 COMMISSIONING

- A. Starting Procedures: Follow manufacturer's written procedures. If no procedures are prescribed by Manufacturers, proceed as follows:
- 1. Verify that specialty valves and their accessories have been installed correctly and operate correctly.
  - 2. Verify that specified test of piping are complete.
  - 3. Check that sprinklers and devices are correct type.
  - 4. Check that damaged drip tube, emitters and devices have been replaced with new materials.
  - 5. Energize circuits to electrical equipment and devices.
  - 6. Adjust operating controls.
- B. Operational Testing: Perform operational testing after hydrostatic testing is completed, backfill is in place, and sprinklers are adjusted to final position.

3.17 DEMONSTRATION

- A. Demonstrate to Architect that system meets coverage requirements and that automatic controls function properly.
- B. Demonstrate to Owner's maintenance personnel operation of equipment, sprinklers, specialties, and accessories. Review operating and maintenance information.
- C. Provide 7-days' written notice in advance of demonstration.

END OF SECTION 32840.1



SILVERSTONE AUTOMATION  
HOLDINGS 10 LLC  
10096 S. JORDAN GATEWAY  
SOUTH JORDAN CITY, UT 84117



DATE: PROJECT NO. 2019575

REVISIONS: TO VERIFY CHANGES TO THE PROJECT AND TO CORRECT ANY ERRORS.

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## PLANTING NOTES

- ALL PLANTS SHALL CONFORM TO THE MINIMUM STANDARDS OF HEIGHT, SIZE, CALIPER AND ETC. OF THE AMERICAN ASSOCIATIONS OF NURSERYMEN "AMERICAN STANDARDS FOR NURSERY STOCK".
- THIS CONTRACTOR SHALL SPREAD TOPSOIL TO A DEPTH OF 6" IN ALL LAWN PLANTING AREAS AND 12" IN ALL SHRUB AND PERENNIAL BEDS.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING FROM THE SITE ALL SOIL EXCAVATED FROM TREE PITS.
- ALL MONSTRIPS ARE TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE IRRIGATION SYSTEM AND THE LANDSCAPE PLANTING.
- INSTALL MULCH IN ALL SHRUB PLANTING BEDS AFTER PLANT MATERIAL INSTALLATION.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING THE REQUIRED AMOUNT OF TOPSOIL TO COMPLETE THE PROJECT. NEW TOPSOIL SHALL MATCH QUALITY AND TEXTURE OF THE EXISTING TOPSOIL ON SITE.

## PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME	COMMON NAME	CAL	REMARKS
	EXI RSX	EXISTING TREE	EXISTING TREE	2" CAL	
	PIC WEL	PICEA OMORICA 'WELLS RIVERSIDE'	RIVERSIDE SERBIAN SPRUCE	10' HT	
	ZEL CI2	ZELKOVA SERRATA 'JFS-KW1' TM	CITY SPRITE ZELKOVA	2" CAL	
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	CONT	REMARKS
	COR HAL	CORNUS ALBA 'BAILHALO' TM	IVORY HALO DOGWOOD	5 GAL	
	COR ISA	CORNUS SERICEA 'ISANTI'	ISANTI REDOSIER DOGWOOD	5 GAL	
	HEM ORO	HEMEROCALLIS X 'STELLA DE ORO'	STELLA DE ORO DAYLILY	1 GAL	
	PRU PAW	PRUNUS BESSEYI 'PAWNEE BUTTES'	SAND CHERRY	5 GAL	
	RHU GRO	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	1 GAL	
	RIB GRE	RIBES ALPINUM 'GREEN MOUND'	GREEN MOUND ALPINE CURRANT	5 GAL	
	SAL ARE	SALIX ARENARIA	SILVER CREEPING WILLOW	5 GAL	
GRASSES	CODE	BOTANICAL NAME	COMMON NAME	CONT	REMARKS
	CHA LAT	CHASMANTHUM LATIFOLIUM	WOOD OATS	1 GAL	
	SPO HET	SPOROBOLUS HETEROLEPS	PRAIRIE DROPSEED	1 GAL	



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NOTES: 1. TREES SHALL BE OF QUALITY PRESCRIBED IN CROWN OBSERVATIONS AND ROOT OBSERVATIONS DETAILS AND SPECIFICATIONS. 2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.



LANDSCAPE PROJECT NO. 2019575

DATE	DESCRIPTION
12-02-2022	CONSTRUCTION DOCUMENTS

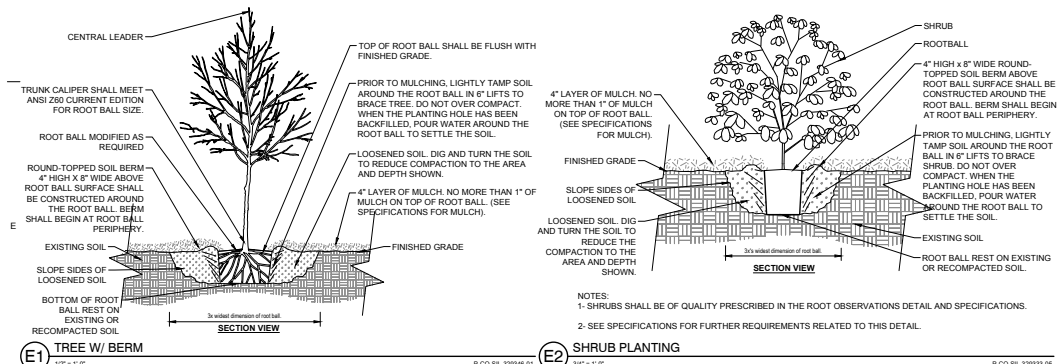
CONSTRUCTION DOCUMENTS

LANDSCAPE DETAILS & NOTES

33

LP501

NOTES:  
1. TREES SHALL BE OF QUALITY PRESCRIBED IN CROWN OBSERVATIONS AND ROOT OBSERVATIONS DETAILS AND SPECIFICATIONS.  
2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.



City Engineer  
City of South Jordan  
Approved 01/10/2023  
B. J. Kline City Engineer



1	LANDSCAPE PLANTING SECTION 29301 - LANDSCAPE PLANTING PART 1 - GENERAL 1.1 SUMMARY A. The extent of the landscape development work is shown on the drawings and in schedules. This work includes: 1. Obtaining and paying for permit fees, inspections and tests required for the installation of landscape planting. 2. Providing and placement of all plant material, topsoil, mulch, miscellaneous materials and maintenance of landscape planting and associated guarantees. 3. Repair the existing Landscape Planting as required to restore to "as-new" condition. 4. All plant material will be approved by the Architect and the Owner's Representative on site prior to planting. Non-approved material to be removed from the site at no cost the District. 5. Attendance at the Construction Conference 1.2 RELATED WORK A. Section 011000 "Summary". B. Section 323400 "Irrigation System". C. Section 323401 "Crop Irrigation System". D. Specification Section - Sola Report for reference only.	2	placed around and between the plants as they are completely covered. The method of storage of plants and mulch material shall be acceptable to the Landscape Architect. c. Provide irrigation to stored plants. D. Do not deliver or use topsoil in frozen or muddy conditions. E. Packaged materials shall be delivered in factory labeled containers showing weight, content and manufacturer. Protect all materials from damage and deterioration during delivery and storage at site. 1.7 GRADING A. Examine the subgrade, verify the elevations of topsoil, planting mix or mulch. Observe the conditions under which work is to be performed and notify the Landscape Architect of any deficiencies. Do not begin landscape work until unsatisfactory conditions have been improved. 1.8 EXCAVATION A. When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify the Landscape Architect before planting. 1.9 EXISTING UTILITIES A. Determine location of underground utilities and perform work in a manner which will avoid possible damage. Hand excavate, as required, to minimize possibility of damage to underground utilities. The Contractor shall be required to furnish all individual plants and plant material in strict accordance with the contract and additional expense to the Owner. B. Before planting, locate all underground utilities prior to digging. Do not place plants on or near utility lines. Obtain a digging permit first (see the General Conditions) and have the permit at the site. 1.10 PLANTING SCHEDULE A. Before bidding each bidder shall investigate sources of supply and determine availability of all plants specified on the planting list in size, variety and quantity. Failure to take this precaution will not relieve the successful bidder from responsibility as a contractor to furnish and install all plant material in strict accordance with the contract and additional expense to the Owner. B. Prepare a proposed planting schedule for approval by the Landscape Architect. Schedule the dates for each type of landscape work during the normal seasons for such work in the area of the site. Comply with specified maintenance periods to provide maintenance throughout the specified time period. Once accepted, revise dates only as approved in writing, after documentation of reasons for delays. C. Proceed with and complete the landscape work as rapidly as portions of the site become available, working within the seasonal limitations for each kind of landscape work required. 1.11 ESTABLISHMENT, MAINTENANCE, REPLACEMENT, AND GUARANTEE A. The establishment period shall begin at the time that the planting phase of the work is completed, inspection and written notice is given and shall continue until substantial line. See Total Site Maintenance section 3.11. B. Maintenance shall include but not be limited to watering, weeding, pruning, spraying, adjusting of guys, and lawn maintenance as described herein. C. Remove and replace trees found to be unacceptable at the time of substantial completion and any time during the guarantee period. Replacements shall be made during the guarantee period. Replacements shall be made during the growing season and shall comply with all requirements and specifications. Replacements shall include match specified tree size, species, and condition. Any delaying the completion of any item of work in the planting operation which extends the planting into more than one season shall extend the guarantee period accordingly. D. Any plants that settle below or rise above the desired finished grades during establishment or guarantee period shall be reset at the proper grades. E. Guarantee all planting for one year following signature of Owner on the final contract payment application. F. The Contractor will not be responsible for plants destroyed or lost due to occupancy of the project, or vandalism on the parts of others or if the failure of any plant material can be proven to the Landscape Architect to be beyond the control of the Contractor. G. At the end of the guarantee period a final inspection of all planting included in this contract will be made by the Landscape Architect. At that time any plant found not to be in good growing condition, broken, damaged, or not exhibiting the desired characteristics of the plant shall be noted. These noted plants shall be removed as specified above.	3	Product Test moss or organic soil conditioner Topsoil 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 4.10 4.11 4.12 4.13 4.14 4.15 4.16 4.17 4.18 4.19 4.20 4.21 4.22 4.23 4.24 4.25 4.26 4.27 4.28 4.29 4.30 4.31 4.32 4.33 4.34 4.35 4.36 4.37 4.38 4.39 4.40 4.41 4.42 4.43 4.44 4.45 4.46 4.47 4.48 4.49 4.50 4.51 4.52 4.53 4.54 4.55 4.56 4.57 4.58 4.59 4.60 4.61 4.62 4.63 4.64 4.65 4.66 4.67 4.68 4.69 4.70 4.71 4.72 4.73 4.74 4.75 4.76 4.77 4.78 4.79 4.80 4.81 4.82 4.83 4.84 4.85 4.86 4.87 4.88 4.89 4.90 4.91 4.92 4.93 4.94 4.95 4.96 4.97 4.98 4.99 5.00 5.01 5.02 5.03 5.04 5.05 5.06 5.07 5.08 5.09 5.10 5.11 5.12 5.13 5.14 5.15 5.16 5.17 5.18 5.19 5.20 5.21 5.22 5.23 5.24 5.25 5.26 5.27 5.28 5.29 5.30 5.31 5.32 5.33 5.34 5.35 5.36 5.37 5.38 5.39 5.40 5.41 5.42 5.43 5.44 5.45 5.46 5.47 5.48 5.49 5.50 5.51 5.52 5.53 5.54 5.55 5.56 5.57 5.58 5.59 5.60 5.61 5.62 5.63 5.64 5.65 5.66 5.67 5.68 5.69 5.70 5.71 5.72 5.73 5.74 5.75 5.76 5.77 5.78 5.79 5.80 5.81 5.82 5.83 5.84 5.85 5.86 5.87 5.88 5.89 5.90 5.91 5.92 5.93 5.94 5.95 5.96 5.97 5.98 5.99 6.00 6.01 6.02 6.03 6.04 6.05 6.06 6.07 6.08 6.09 6.10 6.11 6.12 6.13 6.14 6.15 6.16 6.17 6.18 6.19 6.20 6.21 6.22 6.23 6.24 6.25 6.26 6.27 6.28 6.29 6.30 6.31 6.32 6.33 6.34 6.35 6.36 6.37 6.38 6.39 6.40 6.41 6.42 6.43 6.44 6.45 6.46 6.47 6.48 6.49 6.50 6.51 6.52 6.53 6.54 6.55 6.56 6.57 6.58 6.59 6.60 6.61 6.62 6.63 6.64 6.65 6.66 6.67 6.68 6.69 6.70 6.71 6.72 6.73 6.74 6.75 6.76 6.77 6.78 6.79 6.80 6.81 6.82 6.83 6.84 6.85 6.86 6.87 6.88 6.89 6.90 6.91 6.92 6.93 6.94 6.95 6.96 6.97 6.98 6.99 7.00 7.01 7.02 7.03 7.04 7.05 7.06 7.07 7.08 7.09 7.10 7.11 7.12 7.13 7.14 7.15 7.16 7.17 7.18 7.19 7.20 7.21 7.22 7.23 7.24 7.25 7.26 7.27 7.28 7.29 7.30 7.31 7.32 7.33 7.34 7.35 7.36 7.37 7.38 7.39 7.40 7.41 7.42 7.43 7.44 7.45 7.46 7.47 7.48 7.49 7.50 7.51 7.52 7.53 7.54 7.55 7.56 7.57 7.58 7.59 7.60 7.61 7.62 7.63 7.64 7.65 7.66 7.67 7.68 7.69 7.70 7.71 7.72 7.73 7.74 7.75 7.76 7.77 7.78 7.79 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19.80 19.81 19.82 19.83 19.84 19.85 19.86 19.87 19.88 19.89 19.90 19.91 19.92 19.93 19.94 19.95 19.96 19.97 19.98 19.99 20.00 20.01 20.02 20.03 20.04 20.05 20.06 20.07 20.08 20.09 20.10 20.11 20.12 20.13 20.14 20.15 20.16 20.17 20.18 20.19 20.20 20.21 20.22 20.23 20.24 20.25 20.26 20.27 20.28 20.29 20.30 20.31 20.32 20.33 20.34 20.35 20.36 20.37 20.38 20.39 20.40 20.41 20.42 20.43 20.44 20.45 20.46 20.47 20.48 20.49 20.50 20.51 20.52 20.53 20.54 20.55 20.56 20.57 20.58 20.59 20.60 20.61 20.62 20.63 20.64 20.65 20.66 20.67 20.68 20.69 20.70 20.71 20.72 20.73 20.74 20.75 20.76
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# **SOUTH JORDAN CITY PLANNING COMMISSION REPORT**

**Meeting Date: 08/25/2020**

**Issue:** SILVERSTONE AUTOMATION  
SITE PLAN

**Address:** 10096 South Jordan Gateway

**File No:** PLSPR202000181

**Applicant:** Ryan Berry, MHTN Architects

**Submitted by: Damir Drozdek, Planner III**  
**Shane Greenwood, Supervising Senior Engineer**

**Staff Recommendation (Motion Ready):** I move that the Planning Commission **approve** application PLSPR202000181 to allow for construction of a new commercial building on property located at 10096 South Jordan Gateway.

<b>ACREAGE:</b>	Approximately 0.75 acres
<b>CURRENT ZONE:</b>	I-F (Industrial - Freeway) Zone
<b>CURRENT USE:</b>	Undeveloped and vacant
<b>FUTURE LAND USE PLAN:</b>	IND (Industrial)
<b>NEIGHBORING ZONES/USES:</b>	North – I-F / Parking Lot
	South – I-F / Social Security Offices
	West – I-F / Vacant land
	East – I-F / Parking Lot

## **STANDARD OF REVIEW:**

All proposed commercial, office, industrial, multi-family dwelling or institutional developments and alterations to existing developments shall meet the site plan review requirements outlined in chapter 16.24 and the requirements of the individual zone in which a development is proposed. All provisions of titles 16 & 17 of the City Code, and other city requirements, shall be met in preparing site plan applications and in designing and constructing the development. The Planning Commission shall receive public comment regarding the site plan and shall approve, approve with conditions or deny the site plan.

## **BACKGROUND:**

The applicant is seeking approval to construct a new commercial building on property located at 10096 S. Jordan Gateway. The building will consist of an office and shop space. The shop space will primarily be used to build machines that are delivered to medical manufacturing companies. The building will be two stories tall and 32 feet above grade at its highest point. The exterior finish materials will include brick, eifs siding system, aluminum/composite wood siding and metal cladding. Mechanical equipment will be located on the rooftop and screened from view by a parapet wall.



Access to the building from Jordan Gateway will be via a shared driveway with the Social Security Administration building immediately to the south. No improvements will be made to the existing private drive or along Jordan Gateway. Parking will be provided along the east and the north project boundary. Public improvements will be minimal and consisting of a new fire hydrant, water meters and a water line. Storm water will be collected and retained in an underground storage facility located at the northwest corner of the project. It will be privately maintained.

Landscaping will consist of various trees, shrubs, grasses and stone mulch around the building and the parking area. No sod will be installed with the project. A dumpster enclosure will be located at the northeast end of the project. No new fencing will be constructed with the project. The existing barbed wire fence which runs along the north boundary will be removed.

### **STAFF FINDINGS, CONCLUSIONS & RECOMMENDATION:**

#### **Findings:**

- The business is classified as “assembly” and “research and development” per City Code. These two uses are listed as permitted uses in the I-F zone.
- Impact Control Measures of the City Code require an “operations plan” for the assembly-type use and “operations plan”, “sound plan” and “additional notice” for the research and development use. The operations and sound plan are attached in the Support Materials as a letter from the applicant. The additional notice was completed as well. The notice was sent to all property owners within 600’ of the project boundary.
- The Architectural Review Committee reviewed the proposed building on June 24, 2020 and unanimously recommended approval as long as service doors at the rear of the building are painted to match the building colors and mechanical equipment is screened from view. Those two items have been changed on the new elevation drawings showing new colors for service doors and a parapet wall around the building edge.
- The project meets the Planning and Zoning (Title 17) and the Subdivision and Development (Title 16) Code requirements.

#### **Conclusion:**

- The proposed project will meet the requirements of the Subdivision and Development (Title 16) and the Planning and Zoning (Title 17) Codes.

#### **Recommendation:**

- Based on the Findings and Conclusions listed above, Staff recommends that the Planning Commission take comments at the public hearing and **approve** the Application, unless, during the hearing, facts are presented that contradict these findings or new facts are presented, either of which would warrant further investigation by Staff.

#### **ALTERNATIVES:**

- Approve an amended Application.
- Deny the Application.
- Schedule the Application for a decision at some future date.



**SUPPORT MATERIALS:**

- Aerial Map
- Zoning Map
- Site Plan
- Landscape Plan
- Elevations
- Cabco Jordan Subdivision plat map
- Silverstone Business Description (applicant's letter)




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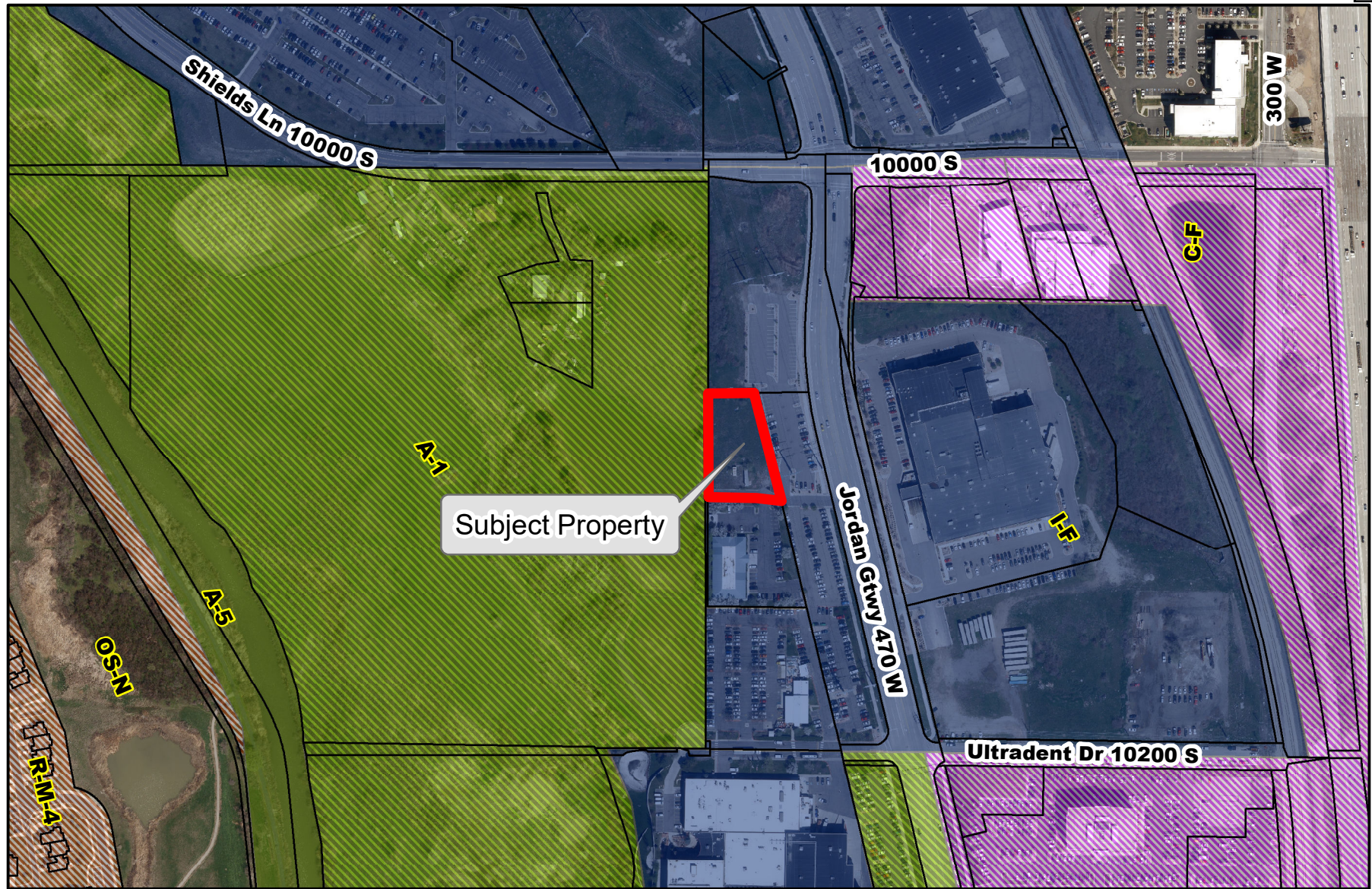
Damir Drozdek, AICP  
Planner III  
Planning Department






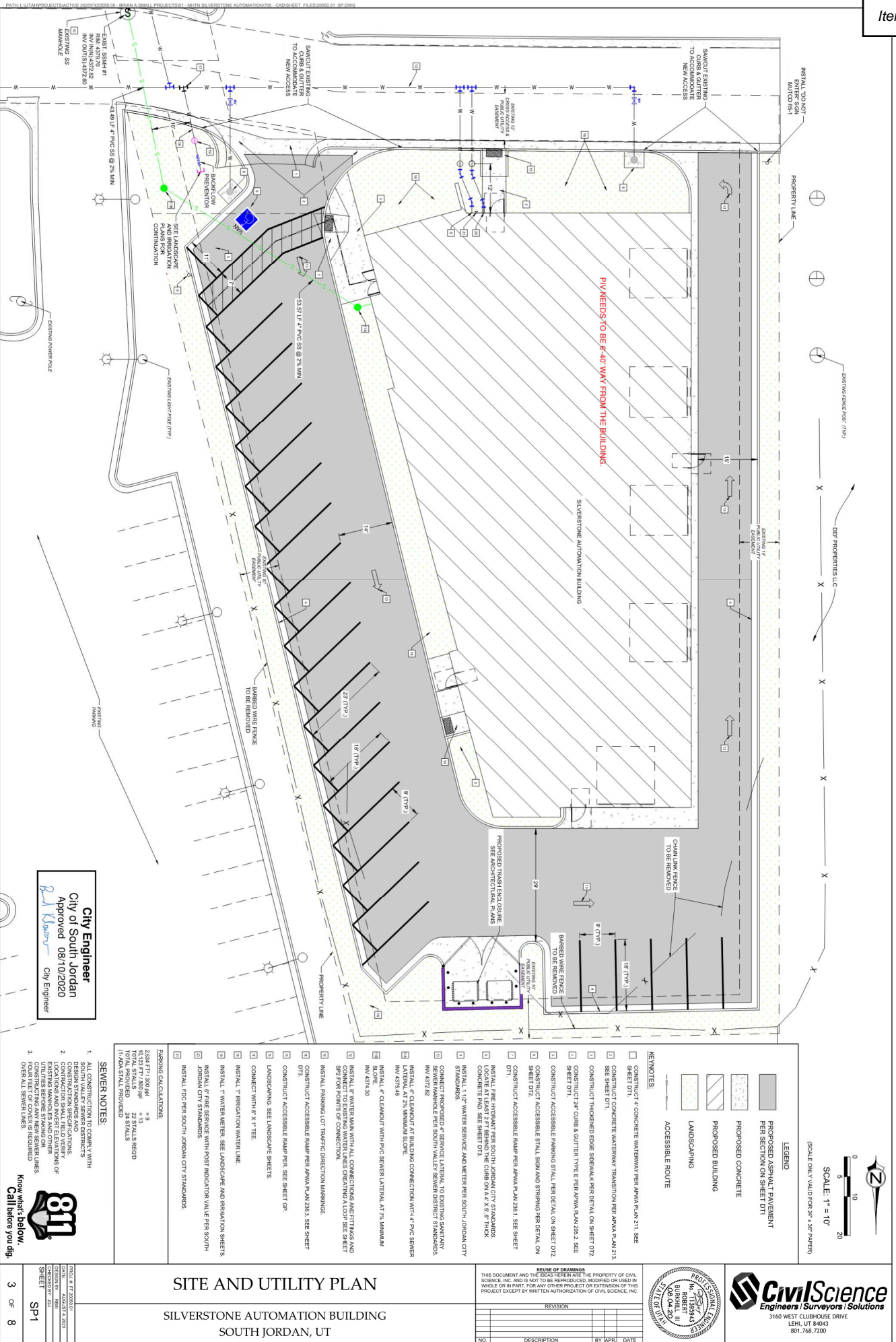
<p><b>Legend</b></p> <p>STREETS</p> <p>PARCELS</p>	<p><b>Aerial Map</b></p> <p><i>City of South Jordan</i></p>	<p>0 105 210 420 630 840 Feet</p> <p>Aerial Imagery 2019</p> 
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<p><b>Legend</b></p> <p>STREETS</p> <p>PARCELS</p>	<h2>Zoning Map</h2> <h3>City of South Jordan</h3>	<p>0 105 210 420 630 840 Feet</p> <p>Aerial Imagery 2019</p> 
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SITE AND UTILITY PLAN  
SILVERSTONE AUTOMATION BUILDING  
SOUTH JORDAN, UT



LANDSCAPE CALCULATIONS			
TOTAL LANDSCAPE AREA	5,955 SF	REQUIRED	PROVIDED
TOTAL TREES (1/500 SF REQ.)		12	24
EVERGREEN TREES (30% REQ.)		4	4
DECIDUOUS TREES		8	20

<u>SYMBOL</u>	<u>LANDSCAPE DESCRIPTION</u>
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SYMBOL	LANDSCAPE DESCRIPTION
	ASPHALT PAVING
	CONCRETE PAVING
	CONCRETE CURB & GUTTER
	CMU SCREEN WALL
	BOLLARD TYP.
SYMBOL	PLANTING NOTES
	STONE MULCH 3/4"-1 1/2" CRUSHED AGGREGATE 3/4"
	DEEP

STONE MULCH, 3/4"-1-1/2" CRUSHED AGGREGATE 3 DEEP

PLANNING NOTES	DESCRIPTION

BOLLARD TYP.

CMU SCREEN WALL

### CONCRETE CURB & GUTTER

## CONCRETE PAVING

**DESCRIPTION**

LANDSCAPE

## REFERENCE NOTES

41  
ARCHITECTS

41

SILVERSTONE AUTOMATION  
HOLDINGS10 LLC  
10096 S. JORDAN GATEWAY  
SOUTH JORDAN CITY, UT 84117

# LANDSCAPE PLAN







OBJECT NUMBER  
LP100

**City Engineer**  
City of South Jordan  
Approved 08/10/2020  
*Ed Klawns* City Engineer



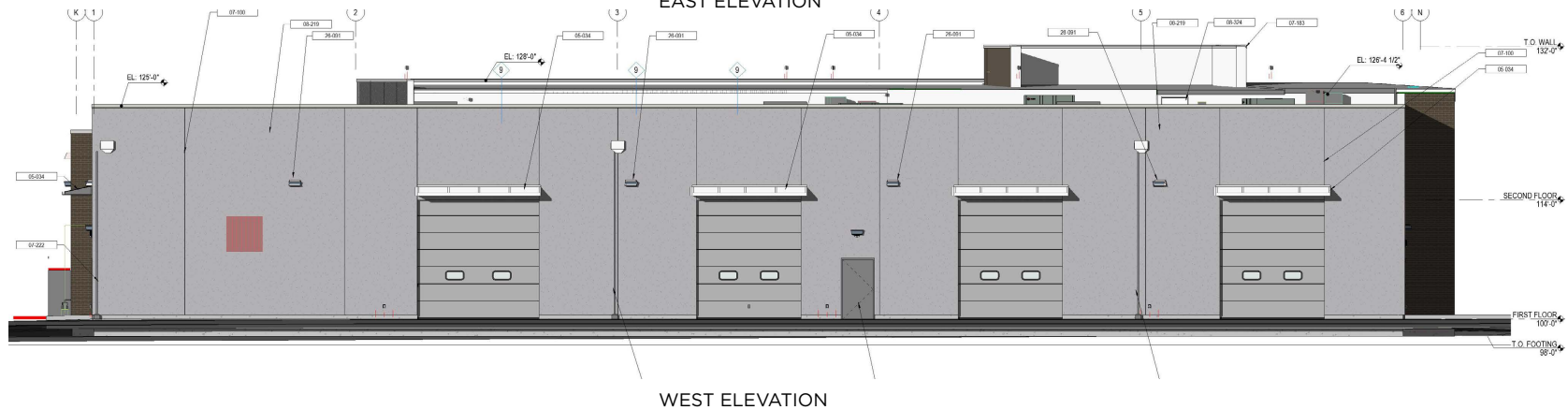
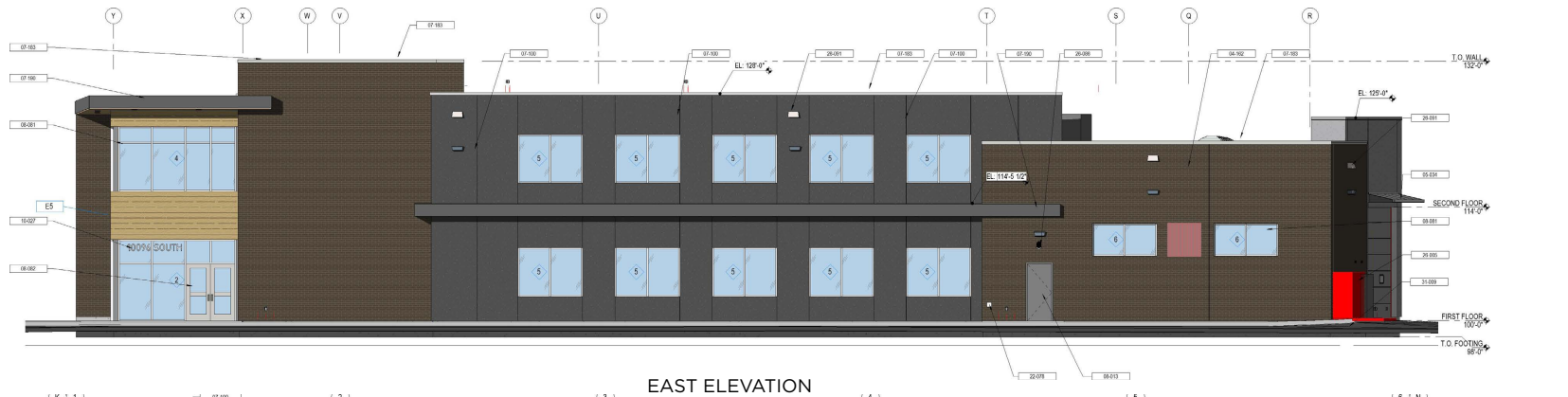
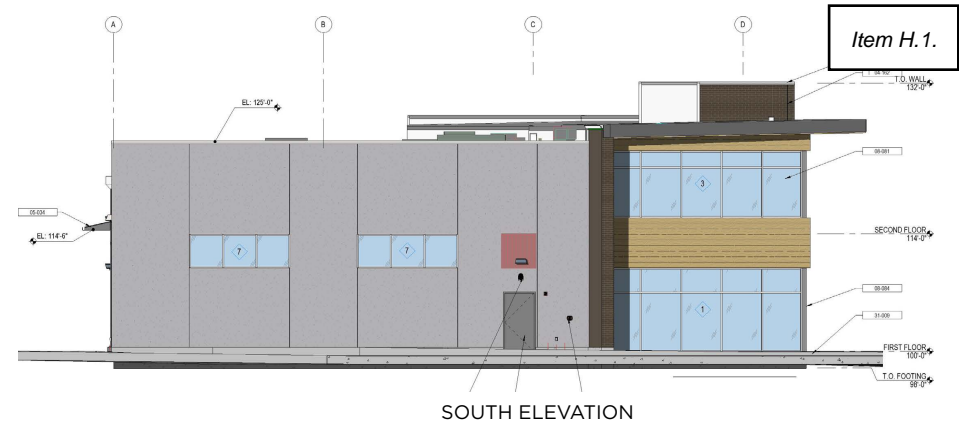
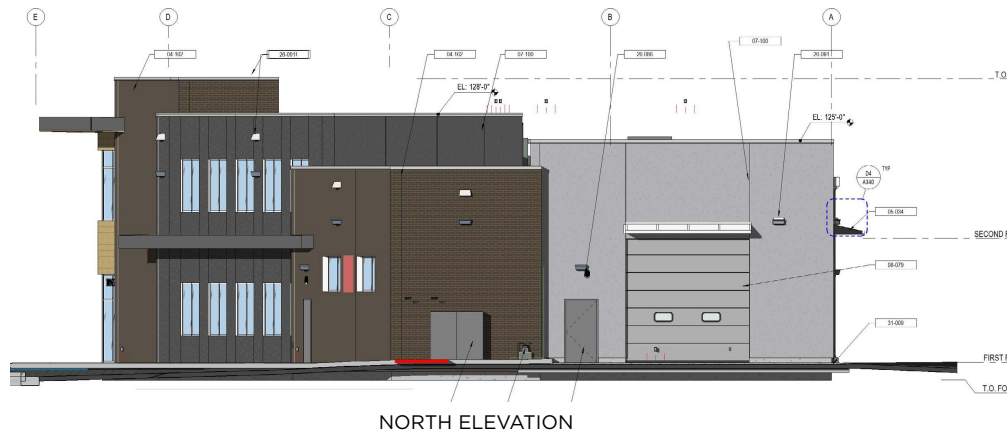


MATERIAL TYPES:

					
1 GeoLam or equal Wood Hybrid system facade Aluminium/composite wood siding Teak finish	2 INTERSTATE BRICK SIZE: KING SIZE COLOR: COAL	3 EIFS SIDING SYSTEM COLOR: LIGHT GREY BUILD SPACE SIDE, PART NORTH/ SOUTH, AND ALL WEST	4 EIFS SIDING SYSTEM COLOR: DARK GREY FRONT OFFICE AREA	5 BLACK METAL FASCIA CLADDING	6 ANODIZED ALUMINUM STOREFRONTS/ AWNINGS

MATERIAL BOARD











**Business description:**

Design, build, program, test, and document custom automation machines that are delivered primarily to medical manufacturing companies. Silverstone also builds a handful of standard machines for medical manufactures.

**Noise:**

Standing outside our building, you might hear the faint sounds (~70db) of:

- Air compressor.
- Maybe a customer's machine running in debug mode.
- About one time per week, we use our forklift to access a delivery truck. The forklift sound is similar to a car.
- Band saw sometimes one time per day.
- Prototyping tools (mill, lathe) a few times a day.

**Odor:**

None

**Dust:**

None

**Vibration:**

None would be felt outside the building. On our build floor, when certain machines are in debug, you might feel faint floor vibrations. Some machines use vibratory feeder bowls which transmit small vibrations into the floor near the machine.

**Visual impacts:**

None. Our customers are medical companies which means cleanliness is an important selling point.

**Hazardous materials used or stored on site:**

1 gallon of lacquer thinner to wipe surfaces of the machine.

**Hazardous activities:**

None

**Is there any heavy equipment or trucks coming or leaving the site and how often?**

Tractor trailer pick up or drop off approximately 1 time per week.

**Let us know what the hours and days of operation are:**

7AM to 6:00PM M, T, W, TH, F

Occasionally Sat 7 to 12PM



**Employees:**

Eleven employees drives to and from work.

**Customers:**

Customers visit about 2 times per week.

**Vendors:**

Vendors visit about 2 times per week.

**UPS/FedEX/DHL:**

Usually 2 or 3 deliveries per day.



Commissioner Gedge said Hawthorn Academy is across the street and I can't think of any other areas where we have retail establishment like this with (4) drive thru isles that close to a school, are there any concerns about the kids walking to, and from school.

Planner Sanderson said there is pad (F) and a detention basin, and then there is the Hawthorn Academy, but there is a space between them. There is also a signalized light that will go in, and that is part of the agreement that the City worked out with the developer. That signal has been fronted and we are working with UDOT to get that in, so it is not a matter of if, but when. The traffic studies show that it should help, because we don't anticipate that a lot of kids from Hawthorn will be walking, but it will be safer once that signal is installed.

**Reed Stallings, Sandy Utah (Applicant)** – said for clarification, all the lanes are about 11 cars stack, and Starbucks is the coffee house going in there. The other (3) lanes are a little wider so they could stack about 12 cars, and there is extra parking in the parking lot. I don't know if you have any other questions, but we just appreciate being able to do this. We have been working on this for a long time and we are anxious to get going on this as soon as we can. Pending this working out we will be submitting building permit plans tomorrow and hopefully get the first 2 building going before the snow flies.

Chair Hollist opened the Public Hearing to comments. There was none. She closed the Public Hearing.

Chair Hollist said will you continue to manage all (4) properties so it works well for all (4) tenants.

Mr. Stalling said that is correct, we are the developer and the owners. This is the Stalling's farm that we have owned for a long time in South Jordan, and when we sold it to the Boyer Company we wanted to have a tie to our family farm, so our intent is to own it for a very long time.

**Commissioner Catmull motioned to approve File No. PLSPR202000048 for the proposed Ridgeview Commercial Parcel F Site Plan and conditional use permit, located at `1553 West 11400 South, with the following requirements which need to be completed prior to construction:**

- **Provide the original Storm Water Facilities Maintenance Agreement to the Engineering Department.**
- **Provide 15' wide water line easement for all main lines, hydrants and services up to and including water meters.**

**Commissioner Hollist seconded the motion. Roll Call Vote was 5-0 unanimous in favor.**

**C. SILVERSTONE AUTOMATION, SITE PLAN**

Location: 10096 South Jordan Gateway  
File No: PLSPR202000181  
Applicant: Ryan Berry, MHTN Architects



Planner Greg Schindler reviewed background information on this item from the staff report. There was (4) letters sent by email from the residents (Attachment A, B, C, D)

Commissioner Gedge said in one of the emails that Damir sent out there was a concern about property lines and what the City has that came from the Salt Lake County Assessor's Office, is that correct?

Planner Schindler said we received the email, but it has nothing to do with this development. This lot is on Lot 2 of the subdivision and it has been recorded with the County. We have a copy of the plat and it matches with what the site shows. The narrow strip on the other side does not pertain to this anyway, it is a different issue and I have no ideas of what the history is there. It has the same IF-Zoning, but it cannot be developed because it is not big enough.

**Lenny Disera, Sandy Utah (Applicant)** – said I would like to thank you for your time. The last 20 years I have been driving through South Jordan to Draper, and I am very excited to build this beautiful building in South Jordan and calling South Jordan our home.

**Cory Bodily, Sandy Utah (Applicant)** – said I am also a co-owner and I would like to thank you for the time you have spent on this project.

Chair Hollist opened the Public Hearing to comments. There was none. She closed the Public Hearing.

**Commissioner Gedge motioned to approved application PLSPR202000181 to allow for construction of a new commercial building on property located at 10096 South Jordan Gateway. Commissioner Hollist seconded the motion. Roll Call Vote was 4-0 unanimous in favor; Commissioner Morrissey was absent from the vote.**

## **IX. LEGISLATIVE PUBLIC HEARINGS –**

### **A. OTTO JONES PROPERTY REZONE Rezone from R-1.8 (Single-Family Residential, 1.8 lots per acre) to R-2.5 (Single-Family Residential, 2.5 lots per acre) Zone**

Location: 10431 South 3200 West  
File No: PLZBA202000131  
Applicant: Justin Jones

Planner Greg Schindler reviewed background information on this item from the staff report. There were (2) letters sent by email from the residents (Attachment E, and F)

Chair Hollist said I have the General Plan Land Use Map in front of me and there is an “L” shaped property just east of this that is marked an economic center, can you tell me what that is?

Planner Schindler said because it is on South Jordan Parkway and it is the only access there, and those are remnant UDOT Lots, and that is why it shows that there. It doesn't mean that they have



Dawn R. Ramsey, *Mayor*  
Patrick Harris, *Council Member*  
Bradley G. Marlor, *Council Member*  
Donald J. Shelton, *Council Member*  
Tamara Zander, *Council Member*  
Jason T. McGuire, *Council Member*



Item H.1.

PH: 801.446-HELP @SouthJordanUT

August 16, 2021

Attn:  
**Ryan Berry**  
**420 E. South Temple, Suite 100**  
**Salt Lake City, UT 84111**

RE: Decision Notification for Time Extension  
**(PLTE202100202)**

Dear Applicant,

On August 16, 2021, the above referenced application was **Approved** with the following Conditions:

- The time extension expires on August 25, 2022.
- Additional time extensions will not be allowed.

If you have any questions or concerns regarding this application, please do not hesitate to contact me by phone (801-254-3742) or by email ([gschindler@sjc.utah.gov](mailto:gschindler@sjc.utah.gov)).

Sincerely,

A handwritten signature in black ink that reads "Greg S." with a stylized flourish at the end.

Greg Schindler  
City Planner



# SOUTH JORDAN CITY PLANNING COMMISSION REPORT

Meeting Date: 01/24/2023

**Issue:** D & D RESIDENTIAL/HATCH SUBDIVISION  
Rezone from Agricultural (A-1) / (A-5), & Professional Office (P-O) to Residential (R-1.8)  
Land Use Amendment from Economic Infill Opportunity (EIO) to Stable Neighborhood (SN)

**Address:** 10828 S. 1055 W. & 10827 S. 1055 W.  
**File No:** PLZBA202200217  
**Applicant:** Devan Hatch, D & D Residential Development, LLC

**Submitted by:** Andrew McDonald, Planner I  
Jared Francis, Senior Engineer

**Staff Recommendation (Motion Ready):** Based on the findings in this report, I move that the Planning Commission forward a recommendation to the City Council to **approve** the land use amendment, Resolution R2023-08, and rezone, Ordinance No. 2023-02-Z.

**ACREAGE:** Approximately 3.31 (acres)  
**CURRENT ZONE:** A-1, A-5, & P-O  
**CURRENT LAND USE:** Residential  
**FUTURE LAND USE MAP:** Agricultural Preservation (AP) & Economic Infill Opportunity (EIO)  
**NEIGHBORING ZONES / LAND USES:**  
North – A-5 / SN  
South – R-1.8 & P-O / AP & EIO  
West – R-1.8 / SN  
East – P-O / EIO

## STANDARD OF APPROVAL:

### 1. LAND USE AMENDMENT:

The general plan may be amended by resolution of the City Council as follows:

- A. The process to amend the general plan and future land use map may be initiated by members of the City Council, by the City Manager or Community Development Director, or by the owner of a subject property or his or her agent. A general plan land use or text amendment which is not initiated by the city may not be reinitiated for an amendment which was considered within the previous year without a majority vote of the City Council. A land use amendment should not impair the development potential of the subject parcel or neighboring properties.



- B. The Planning Commission shall hold a public hearing, as required by state law, after which the commission may modify the proposed general plan amendment. The Planning Commission shall then forward the proposed general plan amendment to the City Council.
- C. After receiving the recommendation of the Planning Commission, the City Council shall hold a public hearing, and may accept, accept with modifications, or reject the proposed general plan amendment.

(City Code § 17.12.030)

## 2. REZONE:

The rezoning of property may not be considered if the proposed zoning does not conform to the general plan. The following guidelines shall be considered in the rezoning of parcels:

- A. The parcel to be rezoned meets the minimum area requirements of the proposed zone or if the parcel, when rezoned, will contribute to a zone area which meets the minimum area requirements of the zone.
- B. The parcel to be rezoned can accommodate the requirements of the proposed zone.
- C. The rezoning will not impair the development potential of the parcel or neighboring properties.

(City Code § 17.22.020)

The Planning Commission shall receive public comment at the public hearing regarding the proposed rezoning and make a recommendation on the rezoning to the City Council (*see* City Code § 17.22.040).

---

## **BACKGROUND:**

Devon Hatch submitted an application for a Rezone & Land Use Amendment. The purpose of the application is to make the subject properties consistent with other property owned by D&D Residential Development, LLC, by rezoning them to R-1.8. This application involves three parcels: 27-14-376-008, 27-14-377-001, & 27-14-377-002.

The largest parcel (27-14-376-008) is currently vacant and is approximately two acres. It is zoned A-5 and the future land use is Agricultural Preservation (AP). The applicant intends to build a six-lot subdivision on this parcel together with three adjacent parcels that are already zoned R-1.8.



The other two parcels are east of 1055 West and are respectively .84 acres and .44 acres. These parcels are adjacent to each other and are currently in three different zones: A-1, A-5, and P-O. The future land use for these parcels is EIO, which was an unintentional designation that is being corrected with this application to reflect the intent of the 2020 General Plan changes (i.e., only Roseman University's property east of the canal should have been designated as EIO). The applicant intends to sell these two parcels in a deal that is pending the outcome of this application. The existing buildings will be demolished and replaced by single-family housing. These properties must be rezoned for new construction to comply with City Code requirements.

## **FINDINGS, CONCLUSION & RECOMMENDATION:**

### **Findings:**

- The application meets the rezone standards of approval and will not impair the development potential of the neighboring properties.
- Amending the land use from EIO to SN conforms with the original intent of the 2020 General Plan amendments in this area.
- Rezoning the property will allow the properties to be developed for single-family residential use in compliance with City Code requirements, and will be consistent with adjacent uses.
- The Concept Plan shows lots that are larger than the minimum lot size in the R-1.8 Zone, which is consistent with the AP land use, which is defined in the General Plan as follows: "Agricultural Preservation identifies areas with current and/or historic agricultural usage. Though these properties are a beloved asset to the community, future development is probable. Future development shall be primarily residential and serve to preserve the agricultural character in the forms and character of the development. Cluster style development will be encouraged to preserve the agricultural use/open space where possible. Small scale, neighborhood commercial uses could be strategically placed consistent with surrounding land uses and/or at the core of the neighborhood to provide a themed service base for neighborhood gathering."

### **Conclusion:**

The land use amendment and rezone are consistent with the General Plan, and the City Code requirements for land use amendments and rezones.

### **Recommendation:**

Staff recommends that the Planning Commission take comments at the public hearing; and **recommend approval** of the application (File # PLZBA202200217) to City Council, unless, during the hearing, facts are presented that contradict these findings or new facts are presented, either of which would warrant further investigation by Staff.

## **INFRASTRUCTURE IMPACT:**

An infrastructure analysis report is included in the supporting materials.

## **FISCAL IMPACT:**

A fiscal impact analysis is included in the supporting materials.



**ALTERNATIVES:**

- Recommend approval of an amended application.
- Recommend denial of the application.
- Schedule the application for a decision at some future date

**SUPPORT MATERIALS:**

- Current Land Use Map
- Current Zoning Map
- Concept Plan
- Engineering Infrastructure Analysis Report
- Fiscal Impact Analysis Report
- Resolution R2023-08
- Ordinance 2023-02-Z

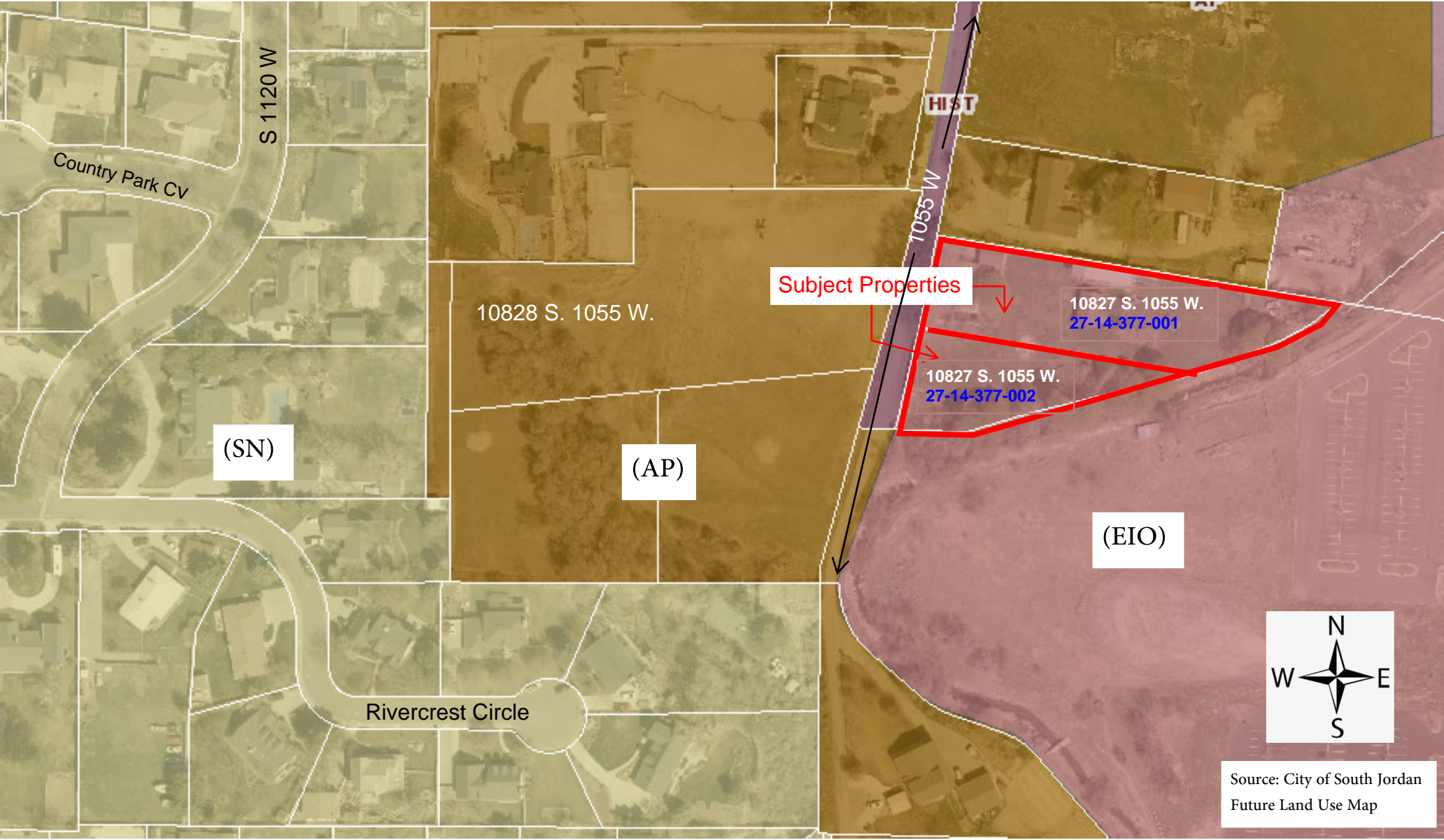


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City of South Jordan  
Andrew McDonald  
Planner I



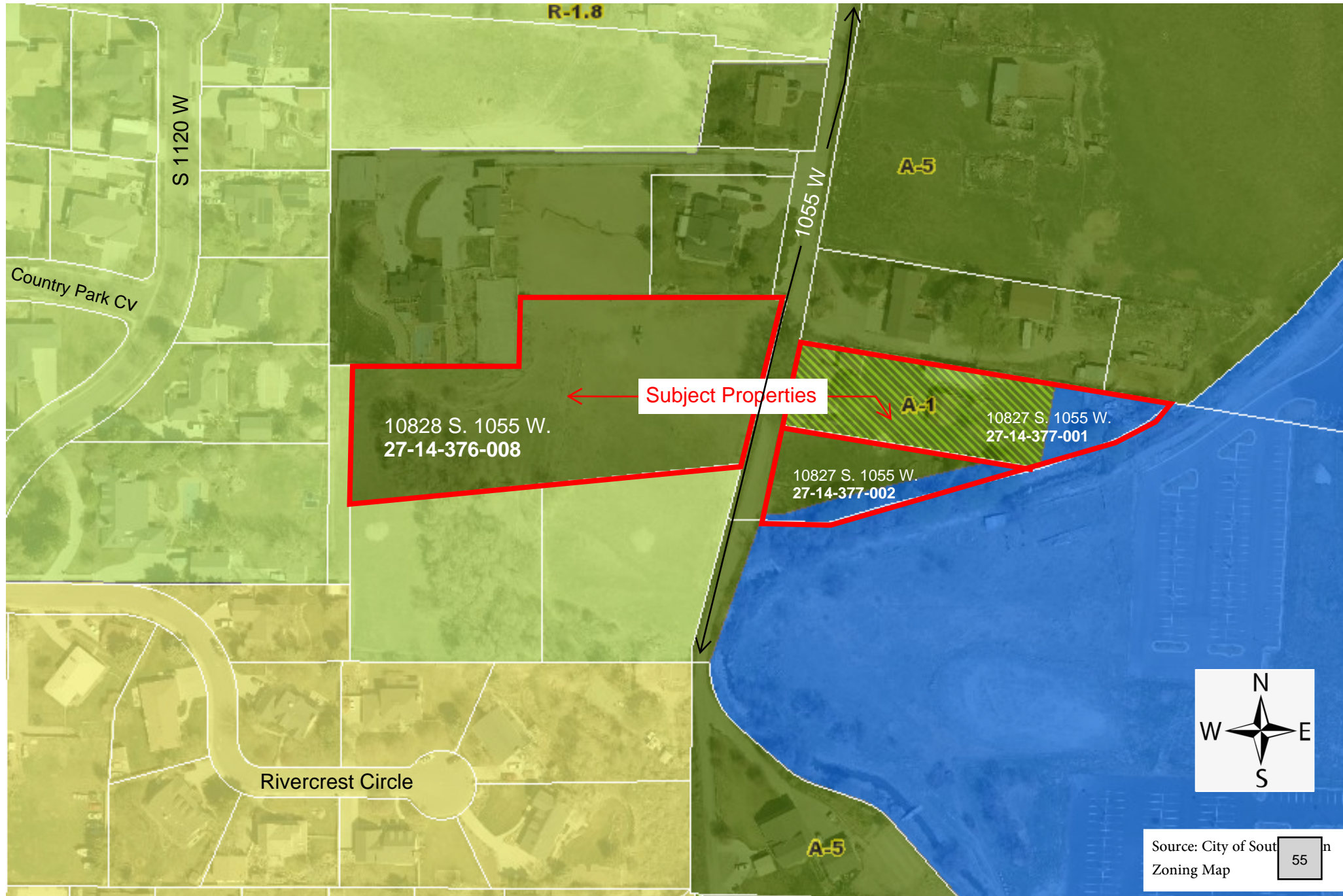
# Location Map of Subject Property



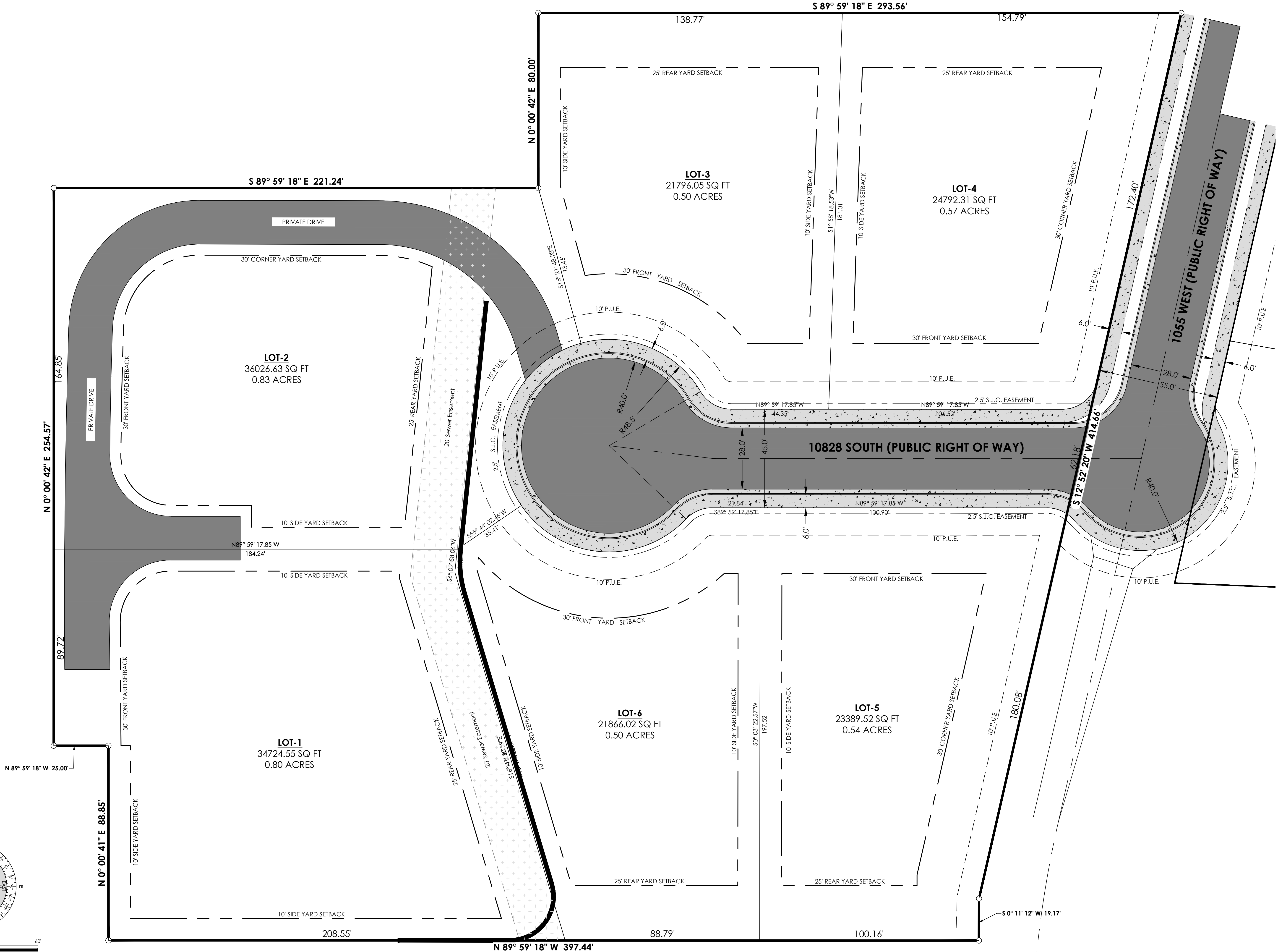
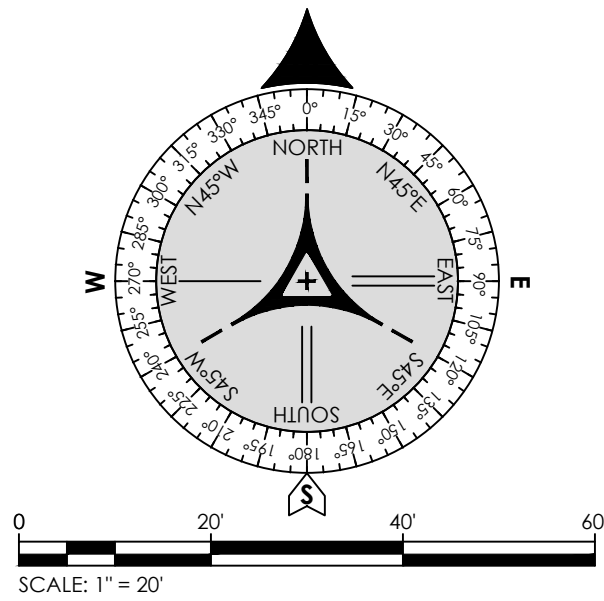


# Location Map of Subject Property

Item I.1.







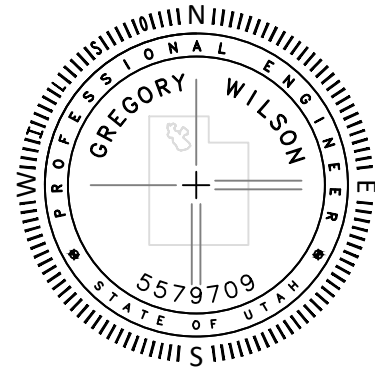
HATCH SUBDIVISION

HATCH SUBDIVISION

10828 SOUTH - 1055 WEST

SOUTH JORDAN, UTAH

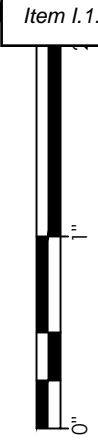
SOUTHWEST 1/4, SECTION-14, T3S, R1W, SLB&M



SCALE

REV	DATE	COMMENT
A	OCT 13, 2022	1st Submittal

SCALE CONSULTANTS, P.C.  
RIVINGTON, UTAH 84096  
(801) 664-6624





# LAND USE AMMENDMENTS & REZONE DEVELOPMENT PROJECTS

## INFRASTRUCTURE ANALYSIS

<b>Project Name/Number</b>	Hatch Subdivision	10828 S 1055 W
----------------------------	-------------------	----------------

<b>Planner Assigned</b>	Andrew McDonald
<b>Engineer Assigned</b>	Jared Francis

The Engineering Department has reviewed this application and has the following comments:

**Transportation:** *(Provide a brief description of the access, transportation master plan and how this change affects Master Plan, condition/status of existing roadways. Determine whether a Traffic Study should be completed)*

The subject property will be accessed from 1055 West. The development will be required to install public right of way improvements along the portion of 1055 West that borders the project, and dedicate the necessary right of way. The project is proposed to have a public street and cul-de-sac, providing frontage for 4 of the proposed lots. The remaining two lots will be accessed from a private drive extending off the end of the cul-de-sac.

**Culinary Water:** *(Provide a brief description of the water servicing the area, look into deficiencies, and determine if water modeling needs to be performed at this time, look at Water Master Plan and evaluate the change to the Master Plan)*

There is an existing City owned 6" water main in 1055 West. Fire hydrants will be required on site as per City standards. A water model will be required as part of the preliminary subdivision submittals.

**Secondary Water:** *(Provide a brief description of the secondary water servicing the area, briefly look into feasibility)*

There does not appear to be a City owned secondary water system adjacent to the project. An engineer's cost estimate will be required during the preliminary subdivision review to determine if it's feasible per City code for the new development to provide a functioning secondary water system.



**Sanitary Sewer:** *(Attach letter from South Valley Sewer stating that this zone/land use change does not affect service and that any future project can be services by the District)*

There is a sewer main line running north and south on the west side of the subdivision that may be able to service the upper two, west most lots. A new sewer main may be required in 1055 West and within the project to provide service to the rest of the lots. Sewer main design and connection requirements will be determined by the South Valley Sewer District.


**Storm Drainage:** *(How will this area be services for storm drainage, kept on site, Master Storm Plan, etc. any other issues with drainage)*


In order to comply with State and City guidelines, the proposed development must retain on site, through use of approved low impact development devices and best management practices, all rainfall events less than or equal to the 80<sup>th</sup> percentile rainfall event. For storm events greater than the 80<sup>th</sup> percentile, the additional storm water must either be retained on site or discharged into an approved storm drain system. There is not an existing public storm drain system in 1055 West.

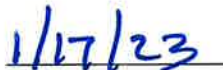
**Other Items:** *(Any other items that might be of concern)*

**Report Approved:**

  
Development Engineer

  
Date

  
Brad Klavano, PE, PLS  
Director of Engineering Services/City Engineer

  
Date



# Project Analysis

**Project:** Hatch Subdivision

December 7, 2022

## Scenario Descriptions

### Scenario 1: No Change - R-1.8

No Change - Residential R-1.8 (2.15 acres), Agriculture A-1 (0.8 acres), Agriculture A-5 (2.47 acres)

## Financial Summary by Scenario

Scenario Descriptions	Financial Summary by Scenario	
	Direct Impact (General Fund)	No Change - R-1.8
<b>Scenario 1: No Change - R-1.8</b>		
No Change - Residential R-1.8 (2.15 acres), Agriculture A-1 (0.8 acres), Agriculture A-5 (2.47 acres)		
	<b>Revenue</b>	<b>\$ 1,257</b>
	Property Tax	\$ 900
	Sales Tax (direct)	\$ -
	Other	\$ 357
		<b>\$ 17,601</b>
	<b>Expenses</b>	<b>\$ 8,653</b>
	Roads	\$ -
	Emergency Serv.	\$ 230
	Parks	\$ 41
	Other	\$ -
		<b>\$ 13,241</b>
	<b>Total</b>	<b>\$ (7,396)</b>
	Per Acre	\$ (1,782.24)
	Per Unit	\$ (7,396.28)
	Per Person	\$ (2,096.03)

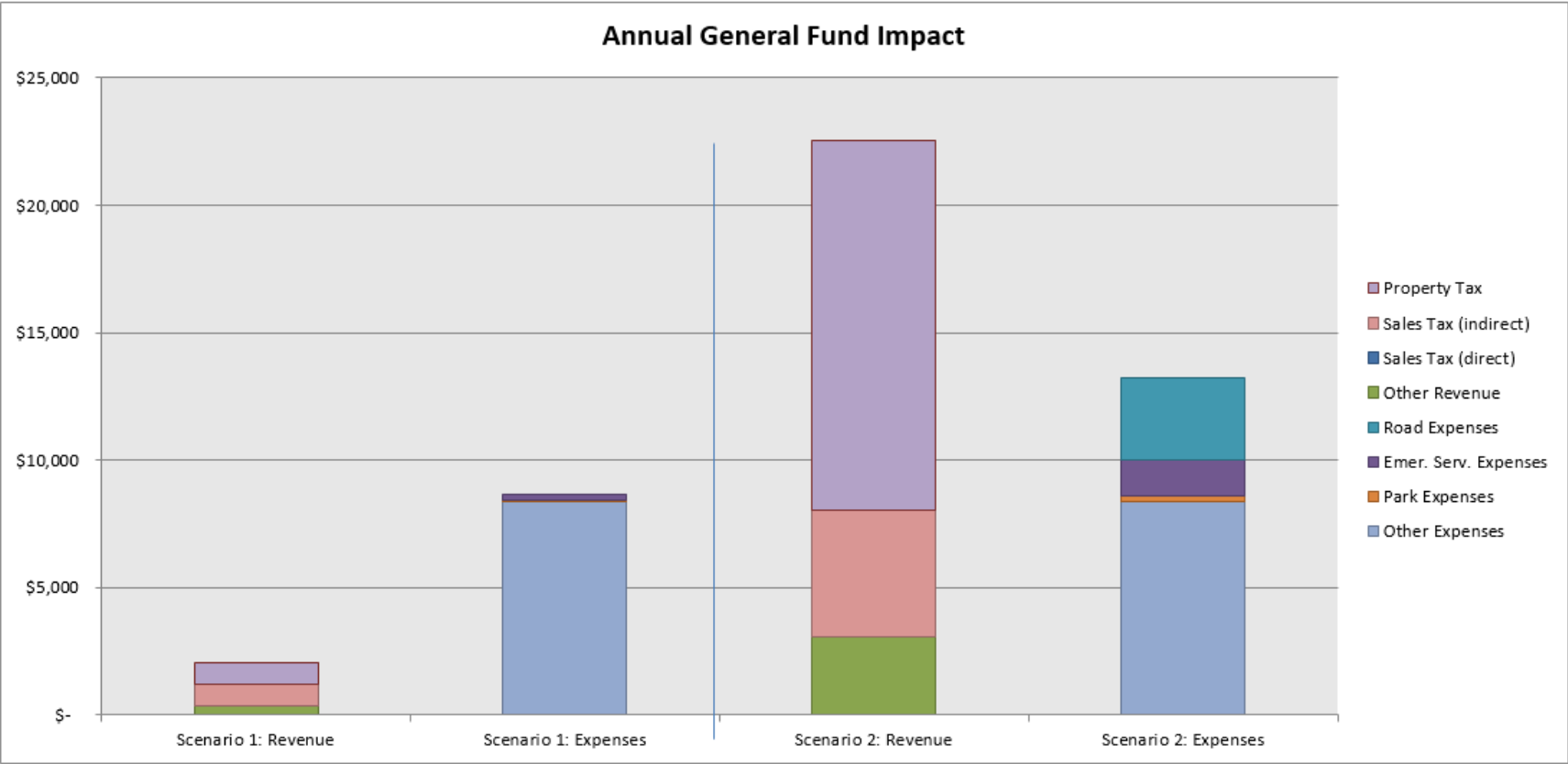
## Indirect Impact

<b>Potential Retail Sales</b>	<b>\$ 81,383</b>	<b>\$ 488,296</b>
Sales Tax (indirect)	\$ 827	\$ 4,960

\*Other Revenue - Includes Permits, Licenses, Motor Vehicle Tax, Energy Sales & Use Tax, Telecommunications Tax, and Cable Franchise Tax.

\*\* Other Expense - Includes all other General Fund Expenses excluding Roads, Emergency Services, and Parks.







## RESOLUTION R2023-08

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SOUTH JORDAN, UTAH, AMENDING THE FUTURE LAND USE PLAN MAP OF THE GENERAL PLAN OF THE CITY OF SOUTH JORDAN FROM ECONOMIC INFILL OPPORTUNITY (EIO) TO STABLE NEIGHBORHOOD (SN) ON PROPERTY LOCATED AT 10827 S. 1055 W.; DEVON HATCH (APPLICANT).**

**WHEREAS**, the City Council of the City of South Jordan (“City Council”) has adopted the Future Land Use Plan Map of the General Plan of the City of South Jordan (“Land Use Map”); and

**WHEREAS**, the Applicant requested that the City Council amend the Land Use Map by changing the land use designation on property located at 10827 S. 1055 W. from Economic Infill Opportunity to Stable Neighborhood ; and

**WHEREAS**, the South Jordan Planning Commission reviewed Applicant’s proposed amendment and made a recommendation to the City Council; and

**WHEREAS**, the City Council held a public hearing concerning the proposed amendment; and

**WHEREAS**, the City Council finds that amending the Land Use Map as proposed by the Applicant will enhance the public health, safety and general welfare, and promote the goals of the General Plan.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SOUTH JORDAN, UTAH:**

**SECTION 1. Amendment.** The land use designation of the Land Use Map of a portion of property described in Application PLZBA202200217, filed by Devan Hatch, which is located at 10827 S. 1055 W. in the City of South Jordan, Utah, is hereby changed from Economic Infill Opportunity to Stable Neighborhood as shown in **Exhibit A**.

**SECTION 2. Severability.** If any section, clause or portion of this Resolution is declared invalid by a court of competent jurisdiction, the remainder shall not be affected thereby and shall remain in full force and effect.

**SECTION 3. Effective Date.** This Resolution shall become effective immediately upon passage.

[SIGNATURE PAGE FOLLOWS]



**APPROVED BY THE CITY COUNCIL OF THE CITY OF SOUTH JORDAN, UTAH,  
ON THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2023 BY THE FOLLOWING VOTE:**

	YES	NO	ABSTAIN	ABSENT
Patrick Harris	_____	_____	_____	_____
Bradley Marlor	_____	_____	_____	_____
Donald Shelton	_____	_____	_____	_____
Tamara Zander	_____	_____	_____	_____
Jason T. McGuire	_____	_____	_____	_____

Mayor: \_\_\_\_\_  
Dawn R. Ramsey

Attest: \_\_\_\_\_  
City Recorder

Approved as to form:

\_\_\_\_\_  
Office of the City Attorney



**EXHIBIT A**

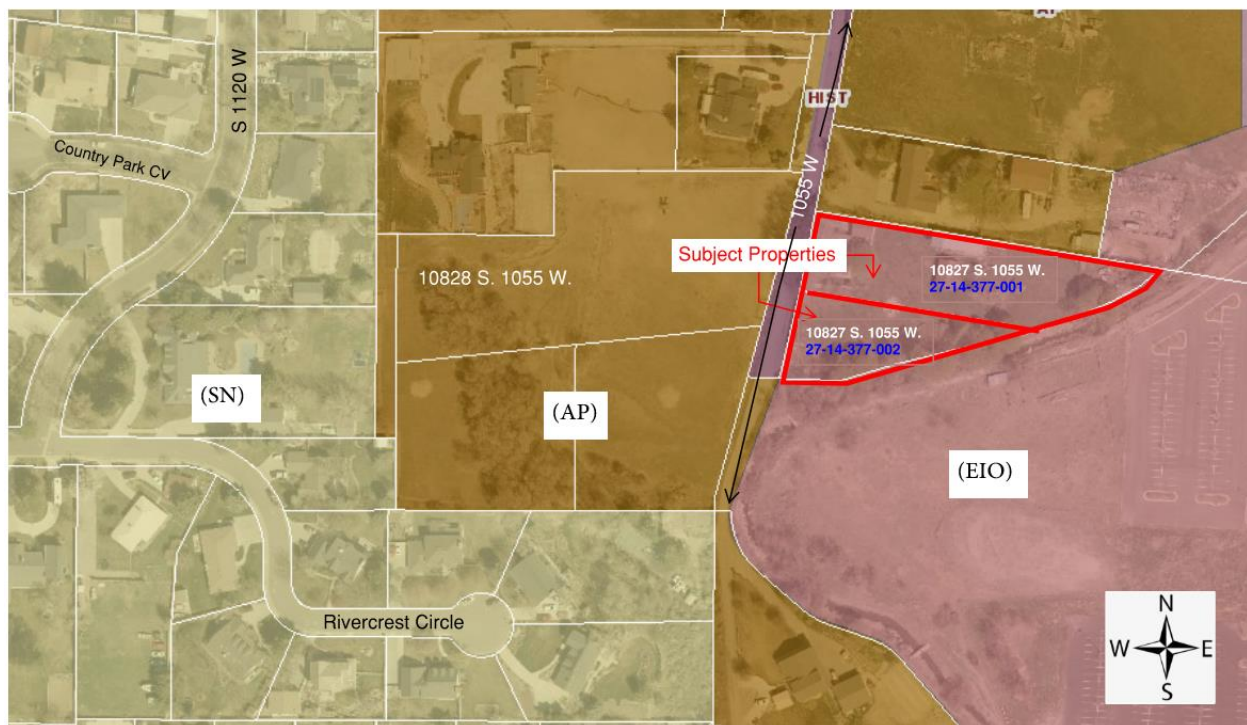
(Property Description)

PARCEL NUMBER: 27-14-377-001

BEG S 12 CHS & E 74 CHS & W 37.5 CHS & N 39;30' W 2.3 CHS & N 75; W 1.5 CHS & N 43; W 2.55 CHS & N 11;30' E 6 CHS FR NW COR OF S 1/2 OF SW 1/4, SEC 14, T3S, R1W, SLM; S 11;30' W 100 FT; S 80;40' E 350 FT; N 71;10'42" E 37.34 FT; N 67;45'39" E 60.96 FT; N 61;21'55" E 37.29 FT; N 51;33'35" E 37.85 FT; NWLY TO BEG. 0.80 AC. 2199-144 8794-2809

PARCEL NUMBER: 27-14-377-002

COM 2216.77 FT E & 1570.83 FT S FR W 1/4 COR SEC 14 T 3S R 1W SL MER S 12^30' W 114.25 FT S 87^45'25" E 70.75 FT TO W FENCE LINE OF BECKSTEAD DITCH N 73^20'10" E 72.7 FT N 76^30'E 180.48 FT N 80^00' W 295.6 FT TO BEG 0.47 AC. 2760-0070 4463-0543

**Location Map of Subject Property**



**ORDINANCE NO. 2023-02-Z****AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SOUTH JORDAN, UTAH, REZONING PROPERTY LOCATED AT 10828 S. 1055 W. AND 10827 S. 1055 W. FROM THE A-1, A-5, AND P-O ZONES TO THE R-1.8 ZONE.**

**WHEREAS**, the City Council of the City of South Jordan (“City Council”) has adopted the Zoning Ordinance of the City of South Jordan (Title 17 of the City Code) with the accompanying Zoning Map; and

**WHEREAS**, the Applicant, Devan Hatch, proposed that the City Council amend the Zoning Map by rezoning the property described in the attached Exhibit A; and

**WHEREAS**, the South Jordan Planning Commission reviewed the proposed rezoning and made a recommendation to the City Council; and

**WHEREAS**, the City Council held a public hearing concerning the proposed rezoning; and

**WHEREAS**, the City Council finds that the rezoning will enhance the public health, safety and welfare and promote the goals of the General Plan.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SOUTH JORDAN, UTAH:**

**SECTION 1. Rezone.** The property described in Application PLZBA202200217 located in the City of South Jordan, Utah is hereby reclassified from the A-1, A-5, and P-O Zones to R-1.8 on property described in the attached **Exhibit A**.

**SECTION 2. Filing of Zoning Map.** The Official Zoning Map showing such changes shall be filed with the South Jordan City Recorder.

**SECTION 3. Severability.** If any section, part or provision of this Ordinance is held invalid or unenforceable, such invalidity or unenforceability shall not affect any other portion of this Ordinance and all sections, parts, provisions and words of this Ordinance shall be severable.

**SECTION 4. Effective Date.** This Ordinance shall become effective immediately upon publication or posting as required by law.

[SIGNATURE PAGE FOLLOWS]



**PASSED AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF SOUTH JORDAN, UTAH, ON THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2023 BY THE FOLLOWING VOTE:**

	YES	NO	ABSTAIN	ABSENT
Patrick Harris	_____	_____	_____	_____
Bradley Marlor	_____	_____	_____	_____
Donald Shelton	_____	_____	_____	_____
Tamara Zander	_____	_____	_____	_____
Jason McGuire	_____	_____	_____	_____

Mayor: \_\_\_\_\_  
Dawn R. Ramsey

Attest: \_\_\_\_\_  
City Recorder

Approved as to form:

\_\_\_\_\_  
Office of the City Attorney



**EXHIBIT A**

(Property Description)

**A-5 Zone to R-1.8 Zone****PARCEL NUMBER: 27-14-376-008**

BEG S 1501.88 FT & E 1786 FT FR W 1/4 COR SEC 14, T 3S, R 1WS L M; E 195.5 FT; N 80 FT; E 309.5 FT; S 14°59'22" W 198.05 FT; S 83°52'33" W 456.38 FT; N 160 FT TO BEG. 2.0 AC M OR L.5316-0001

**A-1, A-5, P-O to R-1.8 Zone****PARCEL NUMBER: 27-14-377-001**

BEG S 12 CHS & E 74 CHS & W 37.5 CHS & N 39°30' W 2.3 CHS & N 75° W 1.5 CHS & N 43° W 2.55 CHS & N 11°30' E 6 CHS FR NW COR OF S 1/2 OF SW 1/4, SEC 14, T3S, R1W, SLM; S 11°30' W 100 FT; S 80°40' E 350 FT; N 71°10'42" E 37.34 FT; N 67°45'39" E 60.96 FT; N 61°21'55" E 37.29 FT; N 51°33'35" E 37.85 FT; NW'LY TO BEG. 0.80 AC. 2199-144 8794-2809

**PARCEL NUMBER: 27-14-377-002**

COM 2216.77 FT E & 1570.83 FT S FR W 1/4 COR SEC 14 T 3S R 1W SL MER S 12°30' W 114.25 FT S 87°45'25" E 70.75 FT TO W FENCE LINE OF BECKSTEAD DITCH N 73°20'10" E 72.7 FT N 76°30' E 180.48 FT N 80°00' W 295.6 FT TO BEG 0.47 AC. 2760-0070 4463-0543



# Location Map of Subject Property

