



## NOTICE AND AGENDA

### BRIGHAM CITY COUNCIL MEETING

Thursday, February 5, 2026 5:00 PM

City Council Chambers, 20 North Main

To View Live Meeting Visit:

<https://www.bcutah.gov/mayor-and-city-council.htm> or

[www.youtube.com/brighamcitycorp](http://www.youtube.com/brighamcitycorp)

- 5:00 WORK SESSION ANNUAL TRAINING ON OPEN AND PUBLIC MEETINGS, NETWORK SECURITY, CONFLICT OF INTEREST AND ETHICS STATEMENT**
- 6:00 REGULAR COUNCIL MEETING**  
Thought, Reading, or Invocation: Bishop Eric Olsen, Brigham City 21<sup>st</sup> Ward  
Pledge of Allegiance
- 6:03 CONSENT**
1. Approval of January 15, 2026 City Council Meeting Minutes
  2. Appointment of Vice Chair of Planning Commission and Joint Advisory Board
- 6:05 EMPLOYEE RECOGNITION**
1. New Hire in the Power Department
- 6:07 PUBLIC HEARING** *(Items may be brought to a vote following the public hearing as deemed necessary)*
1. Consideration of Ordinance Amending the Brigham City General Plan Land Use Map to Change the Land Use Designation From Agricultural to Office/Light Industrial on Approximately 15.1 Acres Located Near 900 West and 975 North – Zane Billings
- 6:20 PUBLIC COMMENTS** <sup>1</sup> *(Per Utah Code, Council will receive input only, no decision can be made)*
- 6:25 COUNCILMEMBER COMMENTS**
- 6:30 ACTION ITEMS**
1. Consideration of Ordinance Amending The Brigham City Zoning Map To Rezone Approximately 15.1 Acres Located Near 900 West and 975 North from A-5 (Agricultural) to M-D (Manufacturing-Distribution District) – Zane Billings
  2. Consideration of Approval of Updates to the Power Standards Manual – Tom Cooper
- 6:45 CLOSED SESSION**  
Consideration to enter a closed session to discuss: purchase/exchange/lease of real property; pending litigation; cyber security; or character/professional competence or physical/mental health of an individual.

Assigned times may vary depending on discussion length or agenda alteration. ADA Notice: Individuals needing special accommodations should contact the City Recorder at 435-734-6621 at least 48 hours before the meeting. Councilmembers may participate electronically.

### CERTIFICATE OF POSTING

The undersigned duly appointed City Recorder certifies the above notice was posted in three public places within the Brigham City limits, and on the City and State Public Meeting Notice websites on January 29, 2026. A copy was also provided to the Box Elder New Journal.

Kristina Rasmussen, City Recorder

<sup>1</sup> Each individual is limited to three minutes. Total input period is limited to 15 minutes.

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**REGULAR SESSION OF THE  
BRIGHAM CITY COUNCIL  
JANUARY 15, 2026  
6:00 p.m.**

5 **PRESENT:** DJ Bott Mayor  
6 Dave Hipp Councilmember  
7 Dave Jeffries Councilmember  
8 Matthew Jensen Councilmember  
9 Ryan Smith Councilmember  
10 Robin Troxell Councilmember

11 **ALSO PRESENT:** Mark Bradley City Planner  
12 Tom Cooper Power Director  
13 Nicole Cottle City Attorney – *Arrived at 6:07*  
14 Tom Kotter Community and Economic Development Director  
15 Derek Oyler City Administrator  
16 Tyler Pugsley Assistant City Administrator  
17 Kristina Rasmussen City Recorder  
18 Chief Reyes Police Chief  
19 Chief Thueson Fire Chief

20 Mayor Bott called the meeting to order at 6:00 p.m. The invocation was offered by Bishop Mark Wilcox  
21 of the Brigham City 7th Ward. The Pledge of Allegiance followed.

22 **SWEARING IN OF NEWLY ELECTED CITY COUNCIL MEMBERS AND MAYOR**

23 The Mayor opened the meeting with the Swearing In and Oaths of Office for re-elected City Council  
24 members and the Mayor. He stated that Judge Morgan, a longtime friend of the City, had been invited to  
25 administer the oaths. Council Member Jensen and Council Member Smith were invited to join the Mayor  
26 at the front of the chambers. Judge Morgan administered the oath of office.

27 **ELECTION OF MAYOR PRO TEMPORE**

28 The Mayor then moved to the Election of the Mayor Pro Tempore for the new year and asked for  
29 nominations from the Council. Councilmember Jensen nominated Councilmember Hipp, and the motion  
30 was seconded by Councilmember Smith. The motion was approved.

31 **CONSENT AGENDA**

32 Mayor Bott introduced five consent items:

- 33 1. Approval of the December 18, 2025 City Council Meeting Minutes.  
34 2. Request to Write Off Utility Accounts totaling \$7,208.60 due to accounts being sent to  
35 collections.  
36 3. Appointments to the Planning Commission  
37 4. Request for Acceptance of Petition for Annexation of 5.59 Acres (Parcel No. 03-074-0007) Located  
38 at Approximately SR 13 and 2400 West  
39 5. Request for Acceptance of Petition for Annexation of 495.17 Acres (Parcel Nos. 04-002-0020, 04-  
40 002-0022, 04-002-0024, 03-257-0004, 03-075-0054, 03-003-0050, 03-067-0029 and 03-075-0023)  
41 located at approximately SR-13 and 1200 West and the north side of the Brigham City Airport.  
42

Councilmember Jensen made a motion to approve the consent item as presented. Councilmember Hipp seconded the motion. The vote was unanimous in favor.

## EMPLOYEE RECOGNITION

The Mayor recognized four new employees: Jorge Morales, Equipment Operator in Public Works; Ryan Hamblin, Park Lead in Parks; Allison Cervantes, Utility Billing Clerk in Finance; and Mikel De La Luca, Recreation Administrative Assistant in Public Works.

## PUBLIC HEARING

### **Consideration of Ordinance Adopting Compensation Increase for Executive Municipal Officer and Oath of Office For New Community and Economic Development Director**

Derek Oyler explained that the Community and Economic Development Director is an appointed position, and that recent changes to state code now require a public hearing and ordinance whenever compensation changes are proposed for appointed or elected officials.

Mr. Oyler stated that the Mayor would be appointing Tom Kotter as the new Community and Economic Development Director for Brigham City Corporation. He explained that the compensation adjustment being considered was tied to an expanded scope of responsibilities associated with the position.

In response to Council questions, Mr. Oyler confirmed that no budget revision was required for the proposed compensation adjustment. He explained that the department head's salary is allocated across multiple General Fund budgets and that the adjustment would be absorbed within existing appropriations.

**MOTION:** Councilmember Smith made a motion to open the public hearing regarding compensation Increase for Executive Municipal Officer – Economic Development Director. Councilmember Jensen seconded the motion.

There were no public comments.

**MOTION:** Councilmember Jeffries made a motion to close the public hearing. Councilmember Jensen seconded the motion. The motion passed unanimously.

**MOTION:** Councilmember Troxell made a motion to approve the ordinance adopting a compensation increase for an executive municipal officer – Community and Economic Development Director. Councilmember Hipp seconded the motion. The motion passed unanimously.

**Roll Call:** Councilmember Jensen – Aye; Councilmember Jeffries – Aye; Councilmember Hipp – Aye; Councilmember Troxell – Aye; Councilmember Smith – Aye

**MOTION:** Councilmember Hipp made a motion to appoint Tom Kotter as the Community and Economic Development Director. Councilmember Jeffries seconded the motion. The motion passed unanimously.

The swearing in/Oath of Office was administered to Tom Kotter by City Recorder, Kristina Rasmussen.

### **Consideration of Ordinance Amending the General Plan - Transportation Master Plan**

Derek Oyler explained the item had previously been reviewed by the Planning Commission and that the proposed amendment is tied to long-term planning for the area around Lakeview Elementary (south end of town). He shared that the School District currently anticipates Lakeview Elementary will likely remain

in service for approximately 5–10 years, but City staff began evaluating the block due to potential future redevelopment if the school were no longer used as a school.

Mr. Oyler described the area as challenging for traffic circulation and noted an existing partial street segment that dead-ends, reflecting long-standing connectivity issues. He reviewed general zoning in the area and explained the City requested the amendment because staff were concerned about future development in a General Commercial area without adequate public street access.

Mr. Oyler emphasized that a Transportation Master Plan amendment is long-range planning and does not mean the City would build a road immediately. Instead, roadway improvements would be evaluated and potentially required as redevelopment occurs through the normal review process. He clarified that “change of use” (not change of ownership) is what could trigger roadway requirements, and that existing residents can continue existing nonconforming residential use unless a change of use is proposed.

He also explained that the master plan does not set exact road width or final alignment; those details would be determined later through engineering, staff review, and coordination with property owners as specific projects come forward. Councilmembers asked clarifying questions about change of use, redevelopment of the school site, impacts to existing businesses, and ADU-related concerns previously discussed at Planning Commission. Mr. Oyler reiterated that impacts would be addressed case-by-case based on specific applications and code requirements.

**Key points highlighted by staff:**

- The amendment is intended to improve north–south connectivity in the block over time.
- The plan does not require immediate construction; it guides future redevelopment review.
- Roadway obligations, if any, would generally be triggered by a change of use.
- Existing homes and businesses may continue current use without change; details would be handled case-by-case during permitting.

**MOTION:** Councilmember Hipp made a motion to open the public hearing for the consideration of Ordinance Amending the General Plan: Transportation Master Plan. Councilmember Jensen seconded the motion. The motion passed unanimously.

**Dennis Gailey** - expressed strong opposition to the proposed amendment. He stated that the City was planning for a need far in the future and placing unnecessary restrictions on current property owners. He emphasized that zoning in the area had changed over time and argued that long-term speculative planning should not limit what property owners can do today. Mr. Gailey felt the proposal created uncertainty and unfairly constrained property rights without a clear or immediate need.

**Monty Worthy** - owner of several businesses in the area, including Burgers and Scoops and the Arby’s property, acknowledged staff’s detailed explanations but expressed concern that placing the roadway on the Transportation Master Plan could negatively affect property value and marketability. He stated that the uncertainty could impact his plans to sell and retire and asked the Council to consider delaying action until there is more clarity regarding the future of Lakeview Elementary and potential roadway design.

**Randy Navarro** - owner of property in the affected area, stated that he felt constrained in his ability to redevelop his property. He indicated that had he known about the proposed planning amendment earlier, he may have reconsidered purchasing the property. Mr. Navarro expressed concern that the amendment limited investment and redevelopment opportunities.

**Randy Dea** -, speaking on behalf of his sister as power of attorney and associated with the Brighton Beaker Plaza, expressed concern about the lack of detailed engineering information. He stated that



without knowing exact road placement or design, it was difficult to assess how access, parking, and existing business operations might be affected.

**Julianna Larson** - spoke about process and transparency. She emphasized the importance of ensuring affected property owners are fully informed and understood how long-term planning decisions could impact property values and future use.

**MOTION:** Councilmember Hipp made a motion to close the public hearing. Councilmember Jeffries seconded the motion. The motion passed unanimously.

Following closure of the public hearing, the Council engaged in discussion and asked clarifying questions of Mr. Oyler regarding how roadway requirements would be triggered if only one property within the affected block were to change use.

Mr. Oyler explained that development requirements would generally apply parcel by parcel, not automatically cascade to neighboring properties. If a property experienced a change of use, the owner would typically be required to construct the portion of the public roadway adjacent to their frontage, subject to engineering and utility constraints. Other parcels would not be forced to redevelop unless they independently proposed a change of use.

Mr. Oyler further explained that some parcels in the area currently lack public road access and would be unable to redevelop without addressing access issues. He stated that roadway construction would likely occur in segments over time, as redevelopment occurs, similar to how partial roadways have historically been constructed and stopped where development ended.

Discussion continued regarding concerns raised during public comment, including the potential impact on long-time property owners, uncertainty surrounding the future of Lakeview Elementary, and the difficulty of making long-term decisions based on unknown future conditions. Several Councilmembers expressed concern about placing additional constraints on existing properties when redevelopment timing remains uncertain.

Councilmembers acknowledged that the issue of roadway connectivity in the area has been discussed previously due to fire access, emergency services, and traffic circulation concerns, but also recognized the unique challenge posed by existing development and ownership patterns.

**MOTION:** Councilmember Smith made a motion to table the consideration of the ordinance amending the General Plan – Transportation Master Plan, requesting additional information be brought before approval. Councilmember Jensen seconded the motion. All councilmembers voted in favor of tabling.

## PUBLIC COMMENT

**Andrew Lewis** - thanked the Council for the opportunity to provide public comment and expressed appreciation for positive things he has seen and heard about the City. He shared general concerns about issues that may not always be visible and emphasized the importance of inclusion, transparency, and recognizing that every individual's voice matters within the community.

## COUNCILMEMBER COMMENTS

**Councilmember Smith** - reported he had attended a Chamber of Commerce meeting and noted the Chamber is preparing for a business summit in March, including classes and programming that may

benefit small and large businesses in the county. He thanked those who attended and spoke during the meeting, stating public input helps the Council.

**Councilmember Troxell** – thanked Mr. Lewis for coming forward and speaking, noting that public comments matter and that transparency and openness are important. She invited Mr. Lewis and other residents to contact her directly to discuss concerns and stated she believes the Council is committed to communicating with community members.

**Councilmember Hipp** - commented that the Council is starting the year by hearing from residents in multiple settings and that public input helps Council better understand how decisions affect individuals. He referenced the earlier discussion and the Council's decision to table the transportation master plan item to allow more consideration. Councilmember Hipp also thanked the City's public safety leadership and staff, referencing recent discussion about changes involving the dispatch center. He stated that although public safety leaders may face criticism on social media, he believes the changes are in the best interest of the community and employees, and he expressed appreciation for the Mayor and Council taking a stand.

**Councilmember Jeffries** - shared that the Boys and Girls Club's new gym floor was scheduled to begin installation the following day and announced a Boys and Girls Club casino night event on Saturday, February 7. He thanked those who attended the ribbon cutting and grand opening the previous week. Councilmember Jeffries also addressed his new job responsibilities requiring frequent travel between Brigham City and Seattle and reaffirmed his commitment to continue serving on the City Council.

**Councilmember Jensen** - referenced a letter to the editor by Sarah Yates regarding the food pantry and commented on the number of meals served, noting the significant volunteer effort and the benefit to those in need. He also shared that he and Councilmember Hipp attended a presentation at Utah State University and encouraged residents to review upcoming lecture series and symposiums, referencing a recent presentation on the Constitution and the Declaration of Independence. Councilmember Jensen concluded by reiterating Council support for the City's chiefs and stated the Council fully backs them.

**Mayor Bott** – shared comments regarding recent decisions involving City leadership, public safety, and Council deliberations. He referenced a phrase printed on the City employee T-shirts given as a gift from the Mayor, stating his guiding principle is to "do what is right and let the consequences follow." He noted that consequences are not always punitive, but can include standing alone when making difficult but correct decisions.

The Mayor explained that decisions in Brigham City are made through open discussion with senior staff and department directors, where differing opinions are encouraged and considered without prejudice. He stated this collaborative process led to the City's recent decisions regarding police, fire, and dispatch services, emphasizing that those actions were taken based on professional expertise and what leadership believed was in the best interest of the community.

The Mayor also referenced the Council's decision earlier in the meeting to table the Transportation Master Plan amendment, noting it demonstrated that decisions are not predetermined and that Council deliberation occurs publicly, as required by law and expected by residents. He expressed appreciation for the Council's willingness to listen, deliberate, and take the time necessary to make informed decisions.

The Mayor concluded by expressing gratitude to City employees, department chiefs, and their families for the trust placed in City leadership. He stated that he takes seriously the responsibility of serving as Mayor and supporting the professionals who serve the community, emphasizing unity, transparency, and accountability in City governance.

**CITY ADMINISTRATOR COMMENTS**

There were no comments made by City Administrator.

**ACTION ITEMS**

**Consideration of Approval of Fire Departmental Policy 205 – Revision to Bereavement Leave**

Tom Kotter explained that staff had recently completed a review of the City's employee handbook and personnel policies and identified that the existing bereavement leave policy did not adequately account for Fire Department employees. He noted that Fire Department personnel work a 48/96 schedule, meaning two days on duty followed by four days off, which differs from the schedules of other City departments.

Mr. Kotter stated that the proposed revision would ensure Fire Department and EMS employees receive bereavement leave equivalent to that provided to other City employees, adjusted appropriately to reflect their work schedule. He emphasized that the revision was intended to ensure fairness and consistency across departments.

**MOTION:** Councilmember Jensen made a motion to approve the revision to Employee Policy 9-7, Bereavement Leave. Councilmember Hipp seconded the motion. The motion passed unanimously.

At 7:34 PM Councilmember Smith made a motion to proceed into closed session to discuss the purchase/exchange/lease of real property. The motion was seconded by Councilmember Jeffries.

**Roll Call:**

Councilmember Hipp – Aye; Councilmember Jensen – Aye; Councilmember Smith – Aye;  
Councilmember Troxell – Aye; Councilmember Jeffries – Aye

At 8:55 PM The council returned to opened and a motion was made by Councilmember Smith to adjourn. Seconded by Councilmember Hipp and approved unanimously.

*The undersigned duly appointed Recorder for Brigham City Corporation hereby certifies that the foregoing is a true, accurate and complete record of the January 15, 2026 City Council Meeting.*

*Dated this 6th of February, 2026.*

Kristina Rasmussen, City Recorder

\*\* These meeting minutes were generated with the assistance of artificial intelligence and have been reviewed, edited and approved by Brigham City Staff.

**BRIGHAM CITY  
AGENDA ITEM FOR CITY COUNCIL MEETING**

1. INITIATED BY: DJ Bott

2. DEPARTMENT OR DIVISION: Mayor's Office

3. DATE INITIATED: 1/27/26

4. BRIEF EXPLANATION OF PROPOSED ACTION (ATTACH OTHER DOCUMENTATION AS NECESSARY):

Appointment of Garl Waldron as Vice Chair of the Planning Commission. *and as a member of the Joint Advisory Board.*

5. ESTIMATED TIME NEEDED: 2min

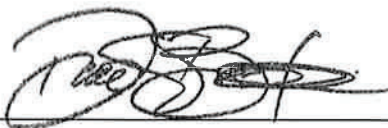
6. PROPOSED DATE FOR COUNCIL ACTION: 2/5/26

7. EXPLANATION OF DEADLINE, IF APPLICABLE:

8. REVIEW

<u>Date</u>	<u>Name</u>	<u>Signature</u>	<u>Attachment</u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>

9. MAYOR'S SIGNATURE:




**BRIGHAM CITY  
AGENDA ITEM FOR CITY COUNCIL MEETING**

1. INITIATED BY: Angie Johnsen
2. DEPARTMENT OR DIVISION: Human Resources
3. DATE INITIATED: January 27, 2026
4. BRIEF EXPLANATION OF PROPOSED ACTION (ATTACH OTHER DOCUMENTATION AS NECESSARY):  
New Hire:  
  
Braxton Wood  
Power Department  
Electronic Metering Technician
5. ESTIMATED TIME NEEDED: 3-5 minutes
6. PROPOSED DATE FOR COUNCIL ACTION: February 05, 2026
7. EXPLANATION OF DEADLINE, IF APPLICABLE:

8. REVIEW

<u>Date</u>	<u>Name</u>	<u>Signature</u>	<u>Attachment</u>
January 27, 2026	Angie Johnsen	<div style="border: 1px solid black; padding: 2px; text-align: center;"><small>eSigned via GovOS.com</small>  <small>Key: 323621ea-7128-4d35-b69a-a3d90f5a4ef9</small></div>	

9. MAYOR'S SIGNATURE:

eSigned via GovOS.com  
  
Key: 605b8e0c-e8b3-440c-bdc9-2708b4e112c

**BRIGHAM CITY**  
**AGENDA ITEM FOR CITY COUNCIL MEETING**

1. INITIATED BY: Zane Billings
2. DEPARTMENT OR DIVISION: Community & Economic Development
3. DATE INITIATED: 1/22/26
4. BRIEF EXPLANATION OF PROPOSED ACTION (ATTACH OTHER DOCUMENTATION AS NECESSARY):

Ordinance Amending the Brigham City General Plan Land Use Map to change the land use designation from Agricultural to Office/Light Industrial on approximately 15.1 acres located near 900 West and 975 North. Shane Barthlome, applicant.

5. ESTIMATED TIME NEEDED: 5 minutes
6. PROPOSED DATE FOR COUNCIL ACTION: 2/5/26
7. EXPLANATION OF DEADLINE, IF APPLICABLE:  
See attached material.

8. REVIEW

<u>Date</u>	<u>Name</u>	<u>Signature</u>	<u>Attachment</u>
<u>01/21/2026</u>	<u>Zane Billings</u>		<u>✓</u>
<u>01/22/2026</u>	<u>Tom Kotter</u>		<u>✓</u>

9. MAYOR'S SIGNATURE:





CITY ATTORNEY  
LEGAL DOCUMENT REVIEW

Document Name: Ordinance to Amend Brigham City General Plan Land Use Map

Name of Person Requesting Legal Review: Zane Billings

Date Sent: January 22, 2026 Review Date Deadline: January 26, 2026

Reviewed by Attorney: [Signature] Date: 1/27/26

X Reviewed and acceptable as submitted  
       See suggested changes

Returned to: Zane Date: 1/27/26

✓ Accepted as Received

Submitted to Mayor's Office By: ZB Date: 1/27/26

Reviewed by Mayor's Office: [Signature]  
Derek Oyler, City Administrator



# MEMORANDUM

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**To:** Mayor Bott, City Council Members

**From:** Zane Billings, Assistant City Planner

**Subject:** Amend Brigham City General Plan Land Use Map  
(Application #25-105)

**Date:** January 22, 2026

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**City Council Agenda:**  
February 5, 2026

**Overview:**

Shane Barthlome has submitted an application to amend the General Plan Land Use Map from Agriculture to Office/Light Industrial in preparation for future development. The applicant would like to construct and operate a truss manufacturing facility on the referenced properties. The properties are adjacent to two railroad corridors and SR-13. A rezone application is being processed concurrently under application #25-106 seeking a change from A-5 (Agricultural) to M-D (Manufacturing-Distribution).

**Planning Commission Recommendation:**

The Planning Commission held a public hearing on January 20, 2026, and recommended denial to the City Council (6-0 vote) based on public input, staff comments and recommendations, and the noted Findings of Fact in the Staff Evaluation.

Public input was opposed to the amendment, noting that the City recently adopted a General Plan update designating this area for agricultural use. Concerns were raised about converting designated agricultural land to industrial use when other areas are already planned for industrial development, as well as challenges related to utility availability and the nature and capacity of the roadway serving the site.

**Attachments:**

1. Staff Evaluation
2. Prepared Ordinance



**BRIGHAM CITY, UTAH  
PLANNING COMMISSION  
STAFF EVALUATION**

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<b>APPLICANT:</b> Shane Barthlome <b>PROPERTY OWNERS:</b> Krone Valene TTEE <b>PROPERTY SITE:</b> 900 West and 975 North <b>PARCEL NO:</b> 03-076-0004, 03-076-0003, 03-076-0006, 03-076-0019	<b>APPLICATION NO.:</b> 25-105 <b>AREA:</b> ~15.1 acres <b>ZONING DISTRICT:</b> Agriculture <b>DATE:</b> January 15, 2026
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<b>PLANNING COMMISSION MEETING:</b> <b>APPLICATION TYPE:</b> <b>PLANNING COMMISSION ROLE:</b>	January 20, 2026 Legislative Recommending Body to City Council
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**NATURE OF REQUEST:**

Amend General Plan Map – Change land use designation from Agricultural to Office/Light Industrial.

**OVERVIEW:**

An application was filed to amend the General Plan Land Use Map from Agriculture to Office/Light Industrial in preparation for future development. The applicant would like to construct and operate a truss manufacturing facility on the referenced properties. The properties are adjacent to two railroad corridors and SR-13. A rezone application is being processed concurrently under application #25-106 seeking a change from A-5 (Agricultural) to M-D (Manufacturing-Distribution).

**STAFF COMMENTS:**

**Community and Economic Development Department:**

1. Staff support the proposed General Plan Amendment based on the subject property's location adjacent to existing railroad corridors and its proximity to existing and planned industrial uses along SR-13. The proposed change to the General Plan Land Use Map supports the logical expansion of future land use designations in this area and is consistent with the surrounding land use context.

**Engineering Department:**

1. Our office has no concerns and supports the proposed land use change and rezoning of the property.
2. For your knowledge, the City would like to redesign the road location for the connection of 1000 West to 900 West to not have a frontage road along SR-13. Please work with the City and City Engineers in the development of this new roadway alignment.
3. The nearest public waterline is an existing 12" water main that terminates at the intersection of SR-13 and 1000 West. This line will need to be extended to this development and a proposed load will need to be supplied to ensure that the required fire flows and pressures can be met or exceeded.

**Fire Department:**

1. No concerns at this time, there is a potential for site hydrants and/or sprinklers and alarms for buildings and lumber pile limitations.

**Police Department:**

1. No Comment

**Public Power Department:**

1. No power readily available at this location. Will need to go over RR with permitting and upgrade to 3 phase or upgrade to 3 phase on the north and come across SR-13. The structures on the north side belong to RMP and there is a permitting process to gain approval for that work.
2. Requesting a load sheet be completed to determine amount of capacity being requested. Attaching a copy of this sheet.

**Public Works Department:****(Culinary Water, Street, and Wastewater Treatment/ Storm Drain Divisions)**

1. Support amendment.
2. Things to consider for development.
  - a. Roadway realignment will be required.
  - b. Because of a shallow sewer depth, sewer pumping may be required.
  - c. Storm drain is in SR-13, may require UDOT approval for connection.
  - d. Water main line will need to be extended to the site by the developer. There are two options to do this. Please communicate with Public Works and our City Engineer.

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**PLANNING COMMISSION RESPONSIBILITY:**

1. The Planning Commission holds the required public hearing.
2. The Planning Commission may recommend approval, disapproval, or request additional information in order to make a recommendation to the City Council.

**STAFF RECOMMENDATIONS:**

1. Support the proposed General Plan Amendment to change the land use designation of the subject properties from Agriculture to Office/Light Industrial on the General Plan Land Use Map

**STIPULATIONS:**

1. N/A

**FINDINGS OF FACT:**

1. The applicant, Shane Bartholome, has submitted a request for a General Plan Amendment to change the land use designation of the subject properties from Agriculture to Office/Light Industrial on the General Plan Land Use Map.
2. The subject properties are currently zoned A-5 (Agricultural). A concurrent rezone application (Application No. 25-106) has been submitted to rezone the properties to M-D (Manufacturing-Distribution District), which would be consistent with the proposed Office/Light Industrial land use designation..

3. The subject properties are located adjacent to railroad corridors and SR-13, and are situated near existing and planned transportation and industrial infrastructure.
  4. Public notice of the proposed rezone and General Plan Amendment was provided in accordance with Utah State Code and Brigham City requirements.
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**ATTACHMENTS:**

1. Locator and Parcel Map
2. Zoning Map
3. General Plan Map
4. Transportation Master plan Map

Aerial Map of a Portion of the City of San Jose, California

Scale: 1" = 100'

North Arrow

SR 13

WILSON'S SUBDIVISION

03-076-0003

03-076-0004

03-076-0008

03-076-0010

03-076-0001

03-076-0002

03-076-0005

03-076-0006

03-076-0007

03-076-0009

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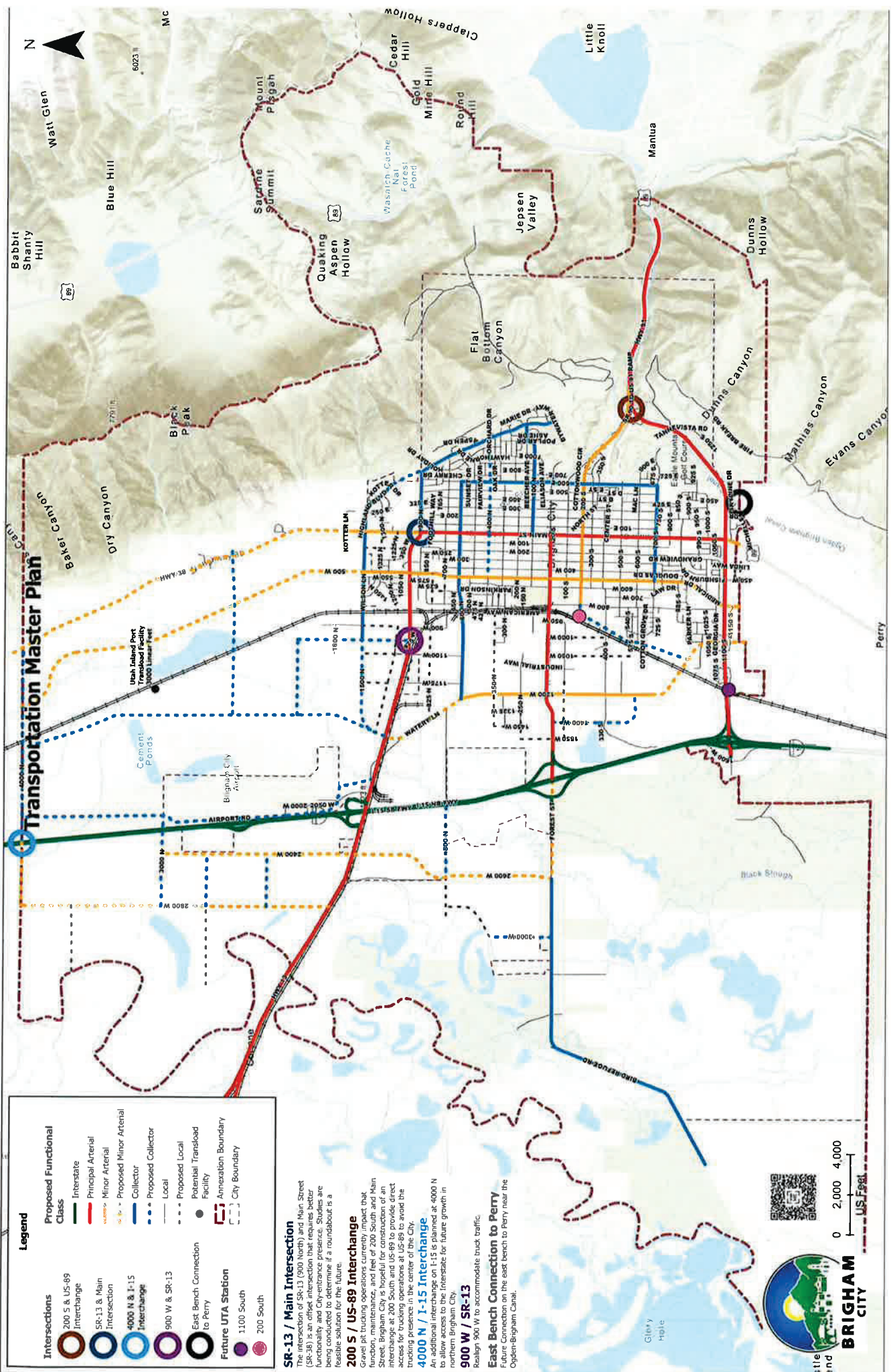
03-076-0225

03-076-0226

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03-076-0





**Legend**

- Intersections**
  - 200 S & US-89 Interchange
  - SR-13 & Main Intersection
  - 4000 N & I-15 Interchange
  - 900 W & SR-13 Interchange
  - East Bench Connection to Perry
- Future UTA Station**
  - 1100 South
  - 200 South
- Proposed Functional Class**
  - Interstate
  - Principal Arterial
  - Minor Arterial
  - Proposed Minor Arterial
  - Collector
  - Proposed Collector
  - Local
  - Proposed Local
  - Potential Transitway
  - Facility
- Boundary**
  - Annexation Boundary
  - City Boundary

**SR-13 / Main Intersection**

The intersection of SR-13 (900 North) and Main Street (SR-18) is an offset intersection that requires better functionality and city-entrance presence. Studies are being conducted to determine if a roundabout is a feasible solution for the future.

**200 S / US-89 Interchange**

Gravel pit trucking operations currently impact that function, maintenance, and feel of 200 South and Main Street. Brigham City is hopeful for construction of an interchange at 200 South and US-89 to provide direct trucking for trucking operations at US-89 to avoid the trucking operations at the center of the city.

**4000 N / I-15 Interchange**

An additional interchange on I-15 is planned at 4000 N to provide direct trucking for future growth in northern Brigham City.

**900 W / SR-13**

Realign 900 W to accommodate truck traffic.

**East Bench Connection to Perry**

Future Connection on the east bench to Perry near the Ogden-Brigham Canal.



0 2,000 4,000  
US Feet



**ORDINANCE NO. \_\_\_\_\_**

**AN ORDINANCE AMENDING THE  
BRIGHAM CITY GENERAL PLAN LAND USE MAP**

**WHEREAS**, Brigham City received an application from Shane Barthlome to amend the General Plan Land Use Map to change the land use designation from Agricultural to Office/Light Industrial on the subject properties, as described and illustrated in Exhibit "A"; and

**WHEREAS**, the applicant proposes the amendment in preparation for future development, including the construction and operation of a truss manufacturing facility on the referenced properties; and

**WHEREAS**, the subject properties are located adjacent to two railroad corridors and SR-13, making them suitable for industrial and manufacturing-related uses; and

**WHEREAS**, the proposed amendment would expand the Office/Light Industrial land use designation to accommodate future industrial development consistent with surrounding infrastructure and land uses; and

**WHEREAS**, the accompanying/recommending zoning district listed in the General Plan for the 'Office/Light Industrial' land use designation is M-D Manufacturing-Distribution; and

**WHEREAS**, following necessary public notice and public hearing, the Brigham City Planning Commission reviewed the application and recommended rejection (denial) to the Brigham City Council with a 6-0 vote; and

**WHEREAS**, following necessary public notice and public meeting, the Brigham City Council finds that such amendment is desirable and in the best interest for an industrial business.

**NOW, THEREFORE BE IT AND IT IS HEREBY ORDAINED by the City Council of  
Brigham City:**

**Section 1.**

The Brigham City General Plan Land Use Map is hereby amended, and the properties (Parcel No's. 03-076-0004, 03-076-0003, 03-076-0006, 03-076-0019) identified and shown, attached hereto as Exhibit "A", land use designation is changed from Agricultural to Office/Light Industrial.

**Section 2.**

This ordinance shall take effect upon posting and publication in the manner as required by law.

**PASSED AND ADOPTED BY THE CITY COUNCIL OF BRIGHAM CITY, STATE OF UTAH, ON THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2026.**

**BRIGHAM CITY**

\_\_\_\_\_  
**Mayor Dennis J. Bott**

**ATTEST:**

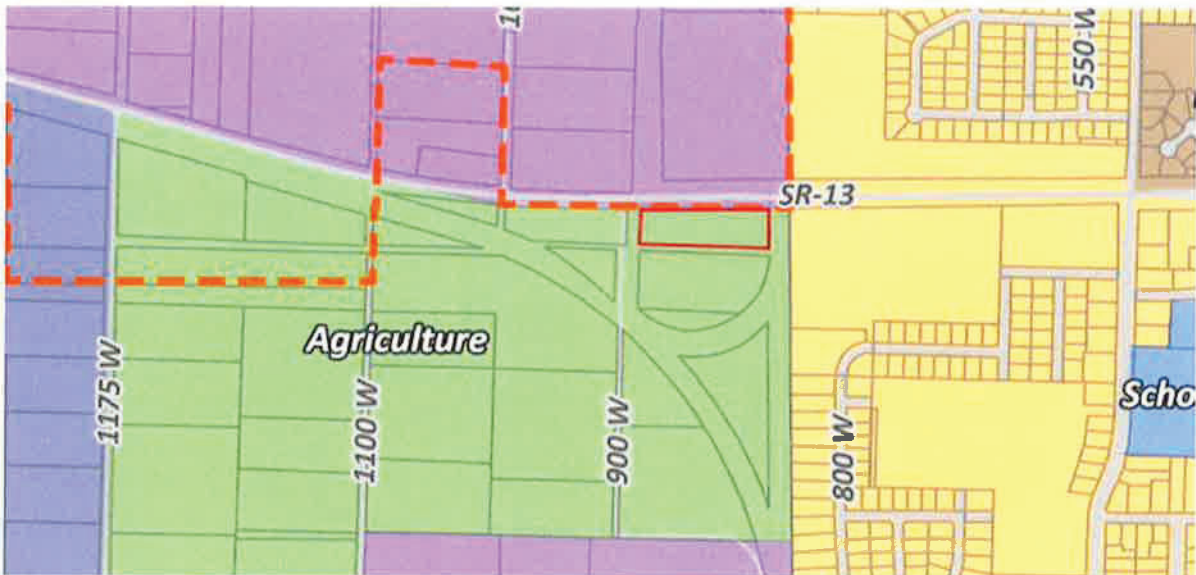
\_\_\_\_\_  
**Kristina Rasmussen, City Recorder**



## Exhibit "A"

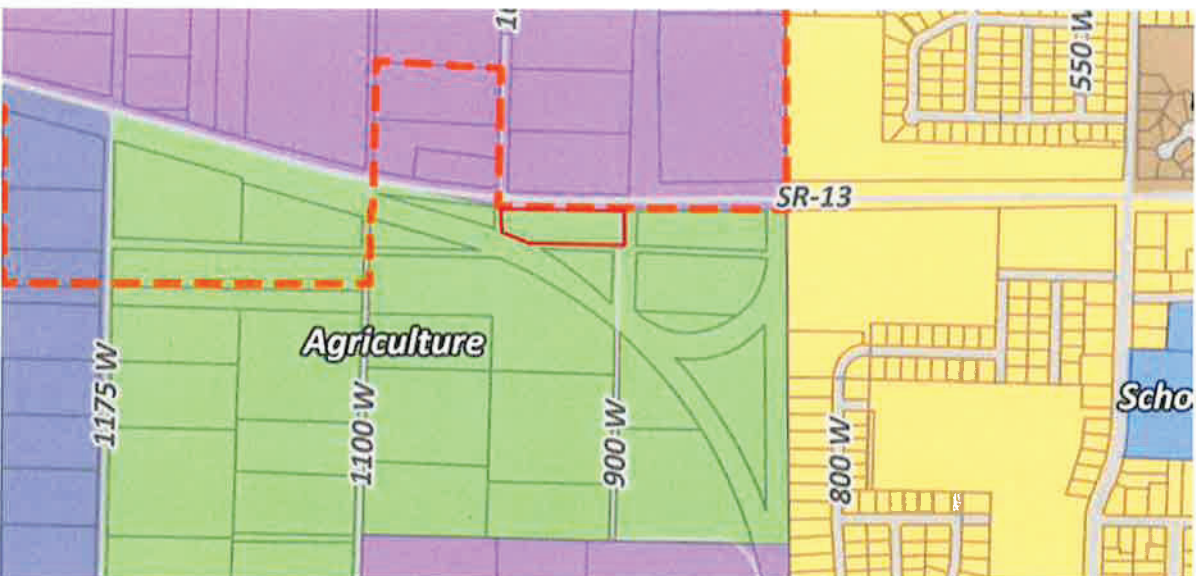
**PARCEL NO. 03-076-0004**

PART OF LOTS 1 & 2, BEG AT SE COR OF BLOCK 9 OF 5 AC PLAT OF SEC 11, TWP 9 N, R 2 W, SLM. RUNNING E 13.33 CHS, N TO ST HWY W 13.33 CHS S TO BEG.



**PARCEL NO. , 03-076-0003**

LOT 1 IN BLK 9 OF 5 AC PLAT OF SEC 11, TWP 9 N, R 2 W, SLM. LESS R.R. & ST HWY





**PARCEL NO. 03-076-0006**

LOT 9, BLK 3, 5 AC PLAT, BCS, BEG 76 RDS S & 80 RDS W OF NE COR OF SE 1/4 OF SEC 11, TWP 9 N, R 2 W, SLM. S 18 RDS, W 40 RDS, N 18 RDS, E 40 RDS TO BEG. EXC OF RES. PT OF LOT 10, BLK3, BEG 28 RDS 1 FT W FRM SE COR OF LOT 10 IN BLK 3, W 11 RDS 15 1/2 FT, N 18 RDS E 11 RDS 15/2 FT, S 18 RDS TO BEG. BEING THAT PT OF LOT W OF O.S.L. LESS O.S.L. R/W CONTG. 5.30 ACS

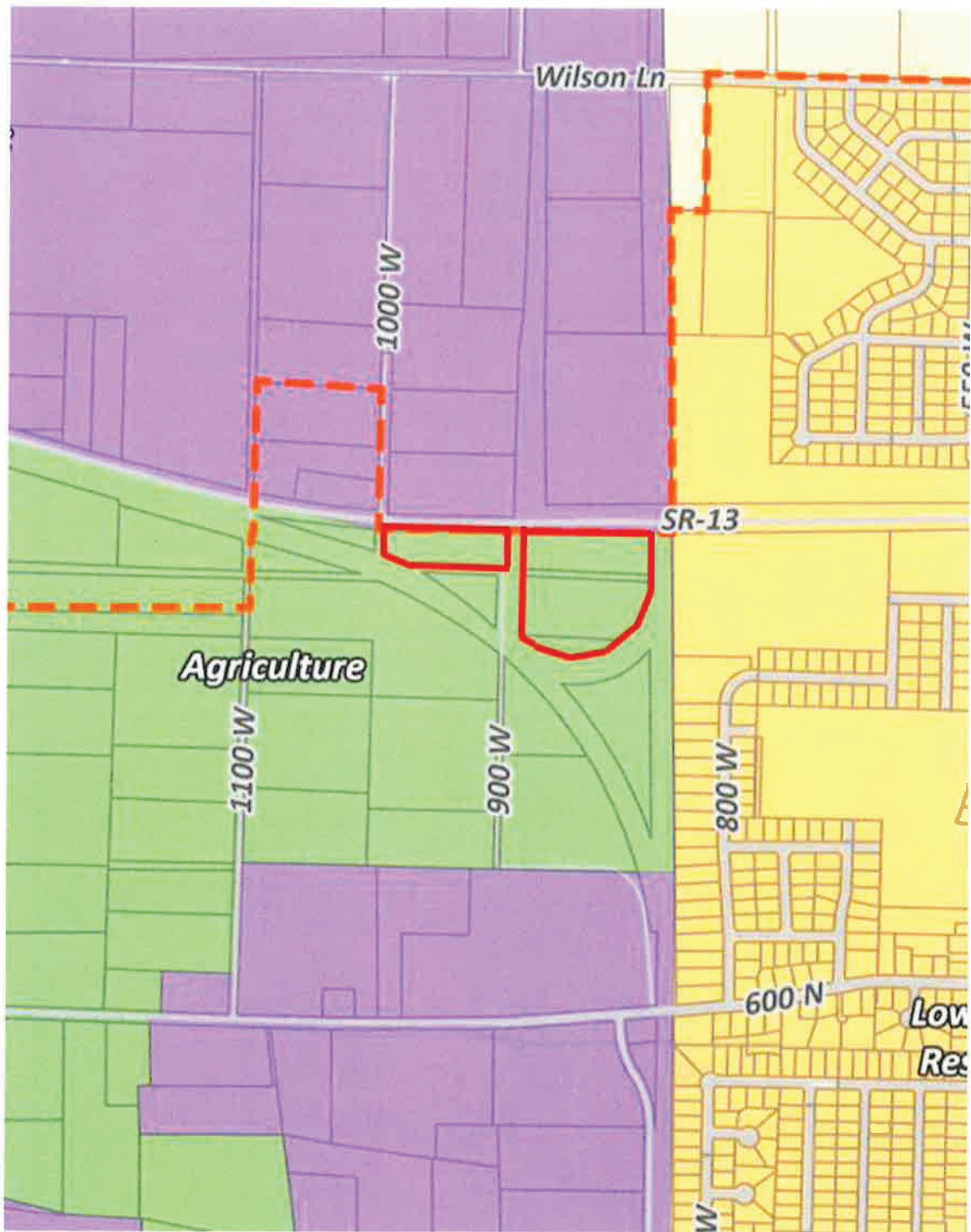


**PARCEL NO. 03-076-0019**

THAT PART OF LOT 8 BLK 3 BRIGHAM CITY FIVE ACRE PLAT IN SEC 11 T9N R2W SLM, LYING NLY OF THE RR R/W.



# General Plan Map – 2026

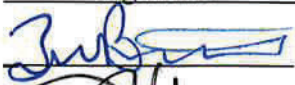



**BRIGHAM CITY  
AGENDA ITEM FOR CITY COUNCIL MEETING**

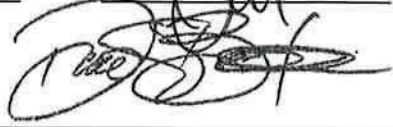
1. INITIATED BY: Zane Billings
2. DEPARTMENT OR DIVISION: Community & Economic Development
3. DATE INITIATED: 1/22/26
4. BRIEF EXPLANATION OF PROPOSED ACTION (ATTACH OTHER DOCUMENTATION AS NECESSARY):  
  
Consideration of Ordinance Amending the Brigham City Zoning Map to rezone approximately 15.1 acres located near 900 West and 975 North from A-5 (Agricultural) to M-D (Manufacturing-Distribution District). Shane Barthlome, applicant.

5. ESTIMATED TIME NEEDED: 5 minutes
6. PROPOSED DATE FOR COUNCIL ACTION: 2/5/26
7. EXPLANATION OF DEADLINE, IF APPLICABLE:  
See attached material.

8. REVIEW

<u>Date</u>	<u>Name</u>	<u>Signature</u>	<u>Attachment</u>
<u>01/21/2026</u>	<u>Zane Billings</u>		<u>✓</u>
<u>01/22/2026</u>	<u>Tom Kotter</u>		<u>✓</u>

9. MAYOR'S SIGNATURE: \_\_\_\_\_





CITY ATTORNEY  
LEGAL DOCUMENT REVIEW

Document Name: Ordinance – Zone Change from A-5 to M-D

Name of Person Requesting Legal Review: Zane Billings

Date Sent: January 22, 2026 Review Date Deadline: January 26, 2026

Reviewed by Attorney: Nicole Lott Date: 1/27/24

☒ Reviewed and acceptable as submitted  
☐ See suggested changes

Returned to: Mark/Zane Date: 1/27/24

☒ Accepted as Received

Submitted to Mayor's Office By: ZB Date: 1/27/26

Reviewed by Mayor's Office: [Signature]  
Derek Oyler, City Administrator



# MEMORANDUM

**TO:** Mayor Bott, City Council Members

**FROM:** Zane Billings, Assistant City Planner

**SUBJECT:** Zone Change from A-5 to M-D (Application #25-106)

**DATE:** January 22, 2026

---

## **CITY COUNCIL AGENDA:**

February 5, 2026

### **OVERVIEW:**

The applicant, Shane Barthlome, has submitted an application to rezone approximately 15.1 acres of property from A-5 (Agricultural) to M-D (Manufacturing-Distribution District) in preparation for future development, including a proposed truss manufacturing facility. Approval of the rezone would amend the Brigham City Zoning Map.

The subject properties are currently designated Agriculture on the General Plan Land Use Map and zoned A-5 (Agricultural). A concurrent General Plan Amendment (Application No. 25-105) is being processed to amend the land use designation from Agriculture to Office/Light Industrial, and the rezone request is subject to City Council approval of the General Plan Amendment.

### **PLANNING COMMISSION RECOMMENDATION:**

The Planning Commission held a public hearing on January 20, 2026, and recommended denial to the City Council (6-0 vote) based on public input, staff comments and recommendations, and the noted Findings of Fact in the Staff Evaluation.

Public input was opposed to the amendment, noting that the City recently adopted a General Plan update designating this area for agricultural use. Concerns were raised about converting designated agricultural land to industrial use when other areas are already planned for industrial development, as well as challenges related to utility availability and the nature and capacity of the roadway serving the site.

### **Attachments:**

1. Staff Evaluation
2. Prepared Ordinance



**BRIGHAM CITY, UTAH  
PLANNING COMMISSION  
STAFF EVALUATION**

---

<b>APPLICANT:</b> Shane Barthlome <b>PROPERTY OWNERS:</b> Krone Valene TTEE <b>PROPERTY SITE:</b> 900 West and 975 North <b>PARCEL NO:</b> 03-076-0004, 03-076-0003, 03-076-0006, 03-076-0019	<b>APPLICATION NO.:</b> 25-106 <b>AREA:</b> ~15.1 acres <b>ZONING DISTRICT:</b> A-5 <b>DATE:</b> January 15, 2026
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<b>PLANNING COMMISSION MEETING:</b> <b>APPLICATION TYPE:</b> <b>PLANNING COMMISSION ROLE:</b>	January 20, 2026 Legislative Recommending Body to City Council
---	--

**NATURE OF REQUEST:**

Rezone – Change of zoning district from A-5 (Agricultural) to M-D (Manufacturing-Distribution District).

**OVERVIEW:**

The applicant, Shane Barthlome, has submitted an application to rezone approximately 15.1 acres of property from A-5 (Agricultural) to M-D (Manufacturing-Distribution District) in effort to construct and operate a truss manufacturing facility on the referenced properties. A rezone would amend the City Zoning Map.

The subject properties are currently designated as Agriculture on the General Plan Land Use Map and zoned A-5 (Agricultural). Due to the property's unique location adjacent to the railroad corridors and SR-13, the applicant feels the proposed M-D zoning would be a more appropriate long-term land use and better aligned with surrounding infrastructure and industrial uses along the north side of SR-13. A General Plan Amendment is being processed concurrently under application #25-105, which proposes to amend the land use designation from Agriculture to Office/Light Industrial so the rezone request would be consistent with the General Plan.

**STAFF COMMENTS:**

**Community and Economic Development Department:**

1. Staff support the proposed rezone based on the subject property's location adjacent to existing railroad corridors and its proximity to existing and planned industrial uses along SR-13. The proposed zoning change supports the logical expansion of industrial zoning in this area and is consistent with existing and anticipated development patterns.
2. Attached is the Transportation Master Plan referenced in the Engineering Department's comments.

**Engineering Department:**

1. Our office has no concerns and supports the proposed land use change and rezoning of the property.
2. For your knowledge, the City would like to redesign the road location for the connection of 1000 West to 900 West to not have a frontage road along SR-13.

Please work with the City and City Engineers in the development of this new roadway alignment.

3. The nearest public waterline is an existing 12" water main that terminates at the intersection of SR-13 and 1000 West. This line will need to be extended to this development and a proposed load will need to be supplied to ensure that the required fire flows and pressures can be met or exceeded.

**Fire Department:**

1. No concerns at this time, there is a potential for site hydrants and/or sprinklers and alarms for buildings and lumber pile limitations.

**Police Department:**

1. No comment / concerns

**Public Power Department:**

1. No power readily available at this location. Will need to go over RR with permitting and upgrade to 3 phase or upgrade to 3 phase on the north and come across SR-13. The structures on the north side belong to RMP and there is a permitting process to gain approval for that work.
2. Requesting a load sheet be completed to determine amount of capacity being requested. Attaching a copy of this sheet.

**Public Works Department:**

**(Culinary Water, Street, and Wastewater Treatment/ Storm Drain Divisions)**

1. Support amendment.
2. Things to consider for development.
  - a. Roadway realignment will be required.
  - b. Because of a shallow sewer depth, sewer pumping may be required.
  - c. Storm drain is in SR-13, may require UDOT approval for connection.
  - d. Water main line will need to be extended to the site by the developer. There are two options to do this. Please communicate with Public Works and our City Engineer.

---

**PLANNING COMMISSION RESPONSIBILITY:**

1. The Planning Commission holds the required public hearing.
2. The Planning Commission determines whether the request is in harmony with the General Plan.
3. The Planning Commission recommends approval, disapproval, or request additional information in order to make a recommendation to the City Council.

**STAFF RECOMMENDATIONS:**

1. Support rezoning the subject properties from A-5 (Agricultural) to M-D (Manufacturing-Distribution District) as shown on the proposed Zoning Map Amendment

**STIPULATIONS:**

1. A land use application for site, utility, and roadway improvements is required prior to filing applications for a building permit and business license.

**FINDINGS OF FACT:**

1. The applicant, Shane Barthlome, has submitted a request to rezone the subject properties from A-5 (Agricultural) to M-D (Manufacturing-Distribution District), which would amend the City Zoning Map.
  2. The subject properties are currently designated Agriculture on the General Plan Land Use Map. A concurrent General Plan Amendment (Application No. 25-105) has been submitted to amend the land use designation to Office/Light Industrial, which would make the proposed rezone consistent with the General Plan.
  3. The subject properties are located adjacent to railroad corridors and SR-13, and are situated near existing and planned transportation and industrial infrastructure.
  4. Public notice of the proposed rezone and General Plan Amendment was provided in accordance with Utah State Code and Brigham City requirements.
  5. The City Council is the only body authorized to amend the zoning map pursuant to Utah Code § 10-9a-503(1).
  6. The City Council may not adopt a zoning map amendment without first receiving a recommendation from the Planning Commission pursuant to Utah Code § 10-9a-503(2).
- 

**ATTACHMENTS:**

1. Locator and Parcel Map
2. Zoning Map
3. General Plan Map
4. Transportation Master Plan



[illegible][illegible]

**ORDINANCE NO. \_\_\_\_\_**

**AN ORDINANCE AMENDING THE BRIGHAM CITY ZONING MAP FROM  
A-5 (AGRICULTURAL) TO M-D (MANUFACTURING-DISTRIBUTION DISTRICT)**

**WHEREAS**, Brigham City received an application from Shane Barthlome to amend the Brigham City Zoning Map to change the zoning district on approximately 15.1 acres of property from A-5 (Agricultural) to M-D (Manufacturing-Distribution District), as described and illustrated in Exhibit "A"; and

**WHEREAS**, the applicant is requesting the rezone in order to construct and operate a truss manufacturing facility on the referenced properties; and

**WHEREAS**, the subject properties are currently designated Agriculture on the General Plan Land Use Map and zoned A-5 (Agricultural); and

**WHEREAS**, due to the property's location adjacent to two railroad corridors and SR-13, the proposed M-D (Manufacturing-Distribution) zoning district is more appropriate for long-term use and is better aligned with surrounding infrastructure and existing and planned industrial uses along the north side of SR-13; and

**WHEREAS**, the M-D (Manufacturing-Distribution) zoning district is the accompanying and recommended zoning district listed in the General Plan for the Office/Light Industrial land use designation; and

**WHEREAS**, following necessary public notice and public hearing, the Brigham City Planning Commission reviewed the application and recommended denial to the Brigham City Council with a 6-0 vote; and

**WHEREAS**, following necessary public notice and public meeting, the Brigham City Council finds that such amendment is desirable and in the best interest for an industrial business.

**NOW, THEREFORE BE IT AND IT IS HEREBY ORDAINED by the City Council of  
Brigham City:**

**Section 1.**

The Brigham City Zoning Map is hereby amended, and the properties identified on the legal description, attached hereto as Exhibit "A", including Parcel Nos. 03-076-0004, 03-076-0003, 03-076-0006, and 03-076-0019, located at approximately 900 West and 975 North, comprising approximately 15.1 acres, are hereby rezoned from A-5 (Agricultural) to M-D (Manufacturing-Distribution District).

**Section 2.**

This ordinance shall take effect upon posting and publication in the manner as required by law.

**PASSED AND ADOPTED BY THE CITY COUNCIL OF BRIGHAM CITY, STATE OF UTAH, ON THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2026.**

**BRIGHAM CITY**

\_\_\_\_\_  
**Mayor Dennis J. Bott**

**ATTEST:**

\_\_\_\_\_  
**Kristina Rasmussen, City Recorder**



## Exhibit "A"

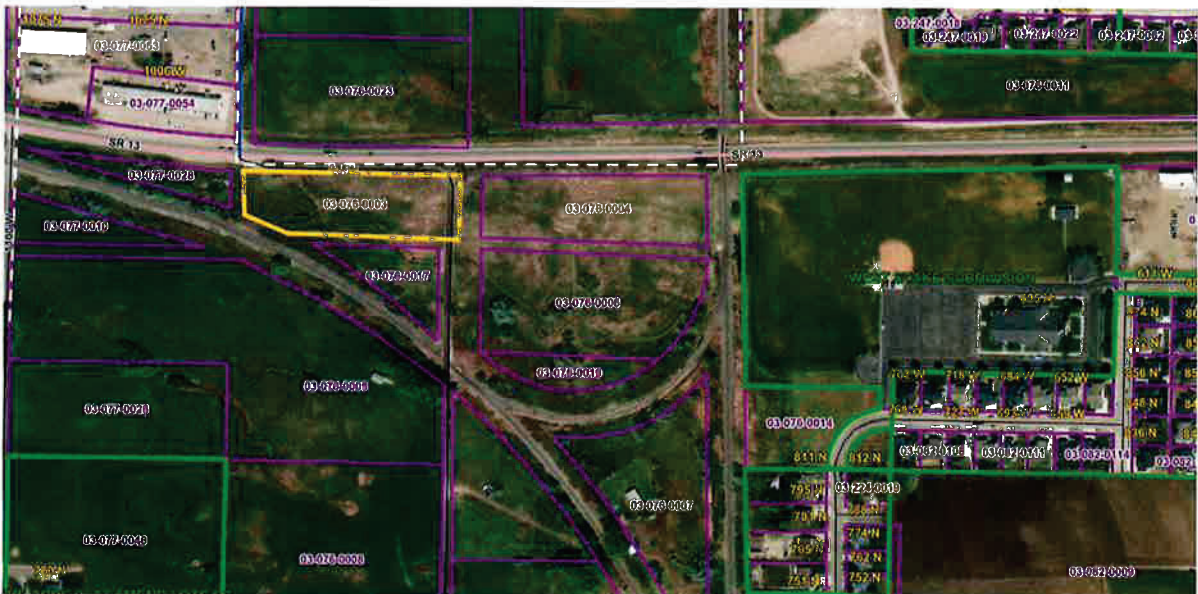
**PARCEL NO. 03-076-0004**

PART OF LOTS 1 & 2, BEG AT SE COR OF BLOCK 9 OF 5 AC PLAT OF SEC 11, TWP 9 N, R 2 W, SLM. RUNNING E 13.33 CHS, N TO ST HWY W 13.33 CHS S TO BEG.



**PARCEL NO. , 03-076-0003**

LOT 1 IN BLK 9 OF 5 AC PLAT OF SEC 11, TWP 9 N, R 2 W, SLM. LESS R.R. & ST HWY





**PARCEL NO. 03-076-0006**

LOT 9, BLK 3, 5 AC PLAT, BCS, BEG 76 RDS S & 80 RDS W OF NE COR OF SE 1/4 OF SEC 11, TWP 9 N, R 2 W, SLM. S 18 RDS, W 40 RDS, N 18 RDS, E 40 RDS TO BEG. EXC OF RES. PT OF LOT 10, BLK3, BEG 28 RDS 1 FT W FRM SE COR OF LOT 10 IN BLK 3, W 11 RDS 15 1/2 FT, N 18 RDS E 11 RDS 15 1/2 FT, S 18 RDS TO BEG. BEING THAT PT OF LOT W OF O.S.L. LESS O.S.L. R/W CONTG. 5.30 ACS

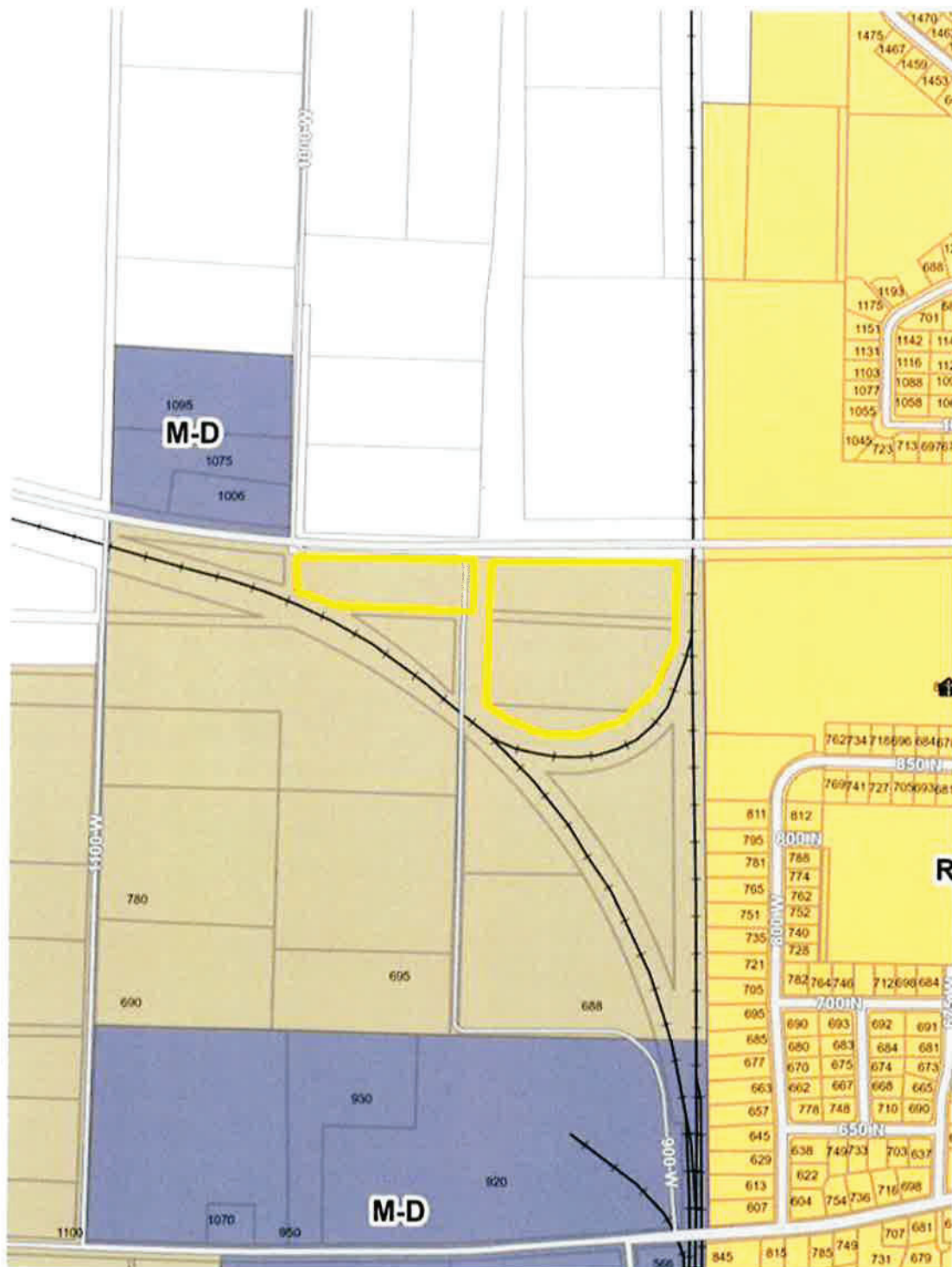


**PARCEL NO. 03-076-0019**

THAT PART OF LOT 8 BLK 3 BRIGHAM CITY FIVE ACRE PLAT IN SEC 11 T9N R2W SLM, LYING NLY OF THE RR R/W.



# Zoning Plan - 2026



**BRIGHAM CITY  
AGENDA ITEM FOR CITY COUNCIL MEETING**


1. INITIATED BY: Tom Cooper
2. DEPARTMENT OR DIVISION: Brigham City Power
3. DATE INITIATED: January 26, 2026
4. BRIEF EXPLANATION OF PROPOSED ACTION (ATTACH OTHER DOCUMENTATION AS NECESSARY):  
Changes to Public Power Standards Manual

5. ESTIMATED TIME NEEDED: 10 mins.
6. PROPOSED DATE FOR COUNCIL ACTION: February 05, 2026
7. EXPLANATION OF DEADLINE, IF APPLICABLE:

8. REVIEW

<u>Date</u>	<u>Name</u>	<u>Signature</u>	<u>Attachment</u>
January 26, 2026	Tom Cooper	<div><small>eSigned via GovOS.com</small>  <small>Key: 323521ea-7128-4d35-b69a-e3a90f8ade1a</small></div>	✓

9. MAYOR'S SIGNATURE:

eSigned via GovOS.com  
  
Key: 605b890c-a6b3-440c-bdc8-2708ba4nb2c

---

BRIGHAM CITY PUBLIC POWER  
ELECTRICAL REQUIREMENTS  
AND  
STANDARDS MANUAL



FEBRUARY 2026



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## GENERAL

### SECTION 1 GENERAL

#### 1.01 Ordinances Govern

Nothing in this document shall be construed to be contrary to Brigham City Ordinances. Should a conflict exist between this document and the Ordinances, the Ordinances shall govern.

#### 1.02 Conformance with Federal, State, and Local Laws

Nothing in this document shall relieve the Developer, Engineer, or Contractor from abiding by any and all Federal, State and local laws

#### 1.03 Definitions

- A. APWA. The American Public Works Association
- B. City. The City of Brigham City, Utah.
- C. County. Box Elder County, Utah
- D. Construction Plans. Construction plans include drawings showing all required improvements for a development showing their location, size, grade, and elevations.
- E. Customer. A person or company receiving service from any City utilities
- F. Contractor. A person or company hired by the city or a Developer to perform construction in or for the city, having appropriate state licenses to perform said work.
- G. Council or City Council. The governing body of the city.
- H. Development Review Team. The Review Team (DRT) of Brigham City.
- I. Developer. Person, persons, partnership or corporations developing residential, commercial or industrial property.
- J. Improvements. Includes roads, streets, curbs, gutters, sidewalks, grading, landscaping, water and sanitary sewer systems, irrigation systems, drainage systems, power systems, fences, public facilities, trees or other requirements by this chapter or by the city.
- K. Land Surveyor. A person licensed with the State of Utah to practice as a licensed land surveyor.
- L. Lot. A parcel or tract of land within a subdivision.
- M. MUE. A Municipal Utility Easement acquired by the city for city utilities.
- N. MUTCD. Manual on Uniform Traffic Control Devices.
- O. NEC. The National Electrical Code is a United States standard for the safe installation of electrical wiring and equipment.
- P. NEMA. National Electrical Manufacturers' Association
- Q. NESC. The National Electrical Safety Code
- R. Net billing. A debit and credit metering process in an account.
- S. Offsite Facilities. Facilities outside of the boundaries of the subdivision or development.

- T. Onsite Facilities. Facilities installed within or on the perimeter of the subdivision or development site.
- U. OSHA. The Occupational Safety and Health Administration.
- V. Power Department. The division of City government responsible for the city owned Electric utilities.
- W. Public Power Director. The Public Power Director for Brigham City or authorized representative.
- X. Public Utility Easements. The easements required to place public utilities across any privately owned property.
- Y. ROW. Right of Way

#### 1.04 Easements

Developers shall provide municipal utility easements (MUEs) for all utility extensions through private property and for 10 feet along public right-of-ways. Developments other than single family home developments shall provide 10-foot MUEs along all property lines. If setbacks are less than 10 feet, then MUEs shall be the extent of the setback. Single family lots shall have 10-foot MUEs along public right-of-ways or streets and not necessarily along the other property lines unless a utility is planned there. Developer shall not be allowed to nor shall they include any type of protection easement intended to provide exclusivity to their development.

#### 1.05 Traffic Control

A traffic control plan shall be submitted to the City prior to construction in or along public streets. All traffic control shall comply with APWA 01 55 26 (Traffic Control) and the MUTCD.

#### 1.06 Survey

The alignment of the side property lines for each lot in a subdivision shall be marked in the top back of curb with a lot line witness marker that meets the requirements and specifications of APWA 31 05 10 (Boundary Markers and Survey Monuments). Developers shall provide survey benchmarks and monuments as required by the Public Power Director.

#### 1.07 Temporary Controls

Temporary controls such as noise, dust, mud, surface water, ground water, pollution and erosion controls shall be made. Controls shall meet the requirements and specifications of APWA 01 57 00 (Temporary Controls). Pumping groundwater into the sanitary sewer system is prohibited. Ground water and/or surface water must be kept on the construction site. If either leave the site by any manner, additional temporary controls must be implemented to protect the storm water drain system. A Storm Water Pollution Prevention Plan (SWPPP) and Notice of Intent (NOI) may also be required. See Brigham City's SWPPP Requirements on the public website for more information.

## SECTION 2 IMPROVEMENT REQUIREMENTS

### 2.01 General

This policy defines the general requirements for improvements to be built by the Developer, sub-divider, owner, or Contractor for all types of construction (including residential, commercial, industrial, institutional, governmental and professional office). All improvements which are in areas that are or will become public rights-of-way and/or easements, or that will be under the responsibility of a homeowner's association, shall meet the requirements of these specifications.

### 2.02 Variations, Substitutions, Exceptions and Changes

Any variation, substitution or exception from the standards in this policy must be authorized in writing by the Public Power Director. Product options and substitutions must meet the requirements of APWA 01 25 00 (Product Options and Substitutions). Any item of construction not covered in these standards must have plans and specifications approved by the Public Power Director. Requests for changes to the Construction Standards shall be made in writing to the Public Power Director. These requests will be reviewed during the revision process conducted in conjunction with the APWA, NESC and NEC revisions. There is no appeal from the decision of the Public Power Director.

### 2.03 Protection of Existing Improvements

The Contractor shall be responsible for the protection of any existing improvements on public or private property at the start of work or placed there during the progress of the work. Existing improvements shall include but are not limited to permanent surfacing, curbs, ditches, driveways, culverts, fences, walls and landscaping. Any surface improvements damaged because of construction shall be restored or replaced to an equal or better condition than before. This shall be accomplished in a timely manner.

### 2.04 New Materials

Only new materials may be used during construction unless otherwise authorized by the Public Power Director.

### 2.05 City Furnished Products

If the City furnishes any products the Contractor shall conform to requirements and specifications of APWA 01 64 00 (Owner-furnished Products), NESC and NEC.

### 2.06 Product Delivery and Handling

The Contractor shall conform to requirements and specifications of APWA 01 65 00 (Product Delivery and Handling), NESC and NEC.

### 2.07 Product Storage and Protection

The Contractor shall conform to requirements and specifications of APWA 01 66 00 (Product Storage and Protection), NESC and NEC.

## 2.08 Other Specifications and Standards

City standards and ordinances shall supersede all other Standards whenever they conflict.

## SECTION 3 SPECIALIZED ENGINEERING

### 3.01 General

Any specialized engineering beyond the expertise of city staff such as, but not limited to, geotechnical, traffic, environmental, hillside, floodplain, bank stabilization and erosion control will require the review of qualified consultants. All review costs shall be paid by the property owner/developer.

Locate utilities within areas of explorations by notifying the appropriate local one-call state utility locate service (Blue Stakes). Independent private utility locates may be required for utilities not identified by the local one-call service. Complete subsurface explorations in accordance with the minimum requirements outlined in this section.

## SECTION 4 CONSTRUCTION PLANS

### 4.01 General

The following instructions are for the purpose of standardizing the preparation of construction plans to obtain uniformity in appearance, clarity, size, and style. Plans and designs shall meet the standards defined in the specifications and drawings hereinafter outlined. All drawings and/or prints shall be clear and legible and conform to good engineering and drafting room practice.

Include the following in construction plans for all developments:

1. A copy of the proposed final plat or site plan.
2. A plan view of the entire project showing all utilities, roads, and appurtenances.
3. Plan and profiles of all storm, land and groundwater drains, sanitary sewer, curb, gutter, and irrigation.
4. Detail drawings of street cross sections according to the standard drawings and other detail drawings only for items not found in the city standard drawings. Detail drawings shall be to scale and completely dimensioned and described. All items shall be designed in accordance with minimum requirements established by the Public Works Standards.
5. Complete plans for all off-site work to be done in conjunction with the project.
6. A stamp and signature of a Civil Engineer licensed in the state of Utah on each plan sheet, detail drawing, and design sheet.

### 4.02 Electric Plans

Construction plans must include the location of all existing poles, transformers, secondary junction boxes, sectionalizers, and overhead electrical wire. After plans



are updated to meet the approval of the DRT, the Developer shall submit a computer aided design (CAD) file of the plans to the Power Department. CAD file must be in a .dwg or .dxf format. Thereafter the Power Department will design and make available plans for the proposed electric lines for the development. City electrical utility design shall supersede any design provided by developer.

## SECTION 5 POWER UTILITY IMPROVEMENTS

### 5.01 General

It shall be the responsibility of the Developer to connect to existing utilities or improvements wherever they are located and extend those improvements to and through the development. This requirement includes hooking up existing homes within the development to all utilities. Existing buildings impacted by development which are currently fed overhead shall be required to be rerouted and metering directly connected to new underground electrical grid at developer's expense. Workmanship and details of construction shall be in accordance with the Public Power Standards and/or other codes adopted by the City. All work shall be done under the supervision of the Public Power Director.

### 5.02 Electric

Electrical lines shall be underground except when the Public Power Director feels that such underground lines are not in the best interest of the City.

## SECTION 6 INSPECTION AND TESTING

### 6.01 Quality Control

The following work shall be subject to the inspection and testing requirements of this chapter:

1. Work on existing or proposed City property.
2. Work on property that will be owned by a property owners association.
3. Work on existing or proposed streets, easements, or right-of-ways.
4. Work on existing or proposed City utilities.

The Contractor is responsible for performing all inspection and testing required to verify installed materials meet these standards and must verify the materials are accepted by the Public Power Director. The Contractor must also ensure that any additional inspection and testing required by the city or a testing company is performed and accepted by the City.

### 6.02 Inspection and Testing Notification

The City may contract with a private company to conduct any inspections or testing specified to be performed by the City. All inspections and tests must be scheduled with the City or company contracted by the City a minimum of 1 full business day

before needed. Requests for inspection on work requiring continuous inspection shall be made 3 full business days prior to commencing the work.

**6.03 Work Without Required Inspection and Testing**

Failure to provide proper notification or to perform work without inspection will result in rejected material. Rejected material will be subject to additional verification requirements including, but not limited to, post-placement sampling and laboratory testing for material conformance, in-place testing for concrete strength and air content. All post-placement testing for uninspected work will be at no additional cost to the city.

Additionally, any work performed without required inspection or testing will give the city the option to hold the bond covering that portion of the improvements in violation, or require the removal and replacement of the uninspected work. The City shall have the option of retaining part or all the bond for up to 10 years after installation of improvements constructed without required inspection or testing. The Public Power Director may also accept the work at a reduced price.

**6.04 Inspection and Testing Fees**

Connection fees required shall be paid and permits required shall be obtained prior to the preconstruction meeting.

**6.05 Weekly Progress Meetings**

The City may require, at their discretion, construction projects in the City to have a weekly progress meeting at the Public Power office. The Public Power Director, City inspectors, the Contractor, and subcontractors shall be in attendance.

**6.06 As-Built Survey**

The Contractor shall notify the City to survey all underground utilities either installed or uncovered during construction. Contractor shall give the City 24-hour notice to survey utilities.

**6.07 Earthwork: Compaction and Moisture Content Tests (Refer to Sheet E10)**

The city will test all sub-grade and fill material for compaction and moisture content. Test locations shall be determined by the city.

**6.08 Inspections**

**6.08.1 Conduit Inspections**

The Public Power Director must inspect all conduit before backfilled.

**6.08.2 Service Stub Inspections**

The Public Power Director must inspect all service stubs before backfilled.

### 6.08.3 Street Light Base Inspections

The Public Power Director must inspect all street light bases prior to concrete placement and before they are backfilled around.

### 6.08.4 Bedding Inspections

The Public Power Director must inspect the bedding in all electrical trenches.

### 6.08.5 Final Electrical Inspection

Once all electrical work for a development is completed to City standards, a final electrical inspection must be done by the Public Power Director prior to permanent power installation.

## SECTION 7 PORTLAND CEMENT CONCRETE WORK (Refer to Sheets E5-E9, E12-E14 and E16)

### 7.01 General

All materials and processes involved in concrete work shall be subject to inspection and testing as detailed in general compliance with ASTM E105-54T. For additional information refer to the Public Works Standards manual.

## SECTION 8 EARTHWORK AND TRENCHES (Refer to Sheets E4 and E5)

### 8.01 Excavation

#### 8.01.1 General

Excavation shall meet the requirements and specifications of APWA 31 23 16 (Excavation) unless otherwise indicated.

#### 8.01.2 Safety

All construction shall be done in accordance with the provisions of the Utah State Industrial Commission, OSHA regulations and APWA 31 23 16 (Excavation). No trenches deeper than 4 feet shall be left open at any time unless construction is in process. When construction is in process only 200 feet of trench may be open at one time and must be completely backfilled before proceeding. Any variation will require the approval of the Public Power Director. No trenches shall be left open at any time unless guarded with adequate barricades, warning lamps and signs.

Any injury or damage resulting from lack of adequate bracing and shoring shall be the responsibility of the Developer/Contractor and the Developer/Contractor shall, at his/her own expense, affect all necessary repairs or reconstruction resulting from such damage. No inspections will be done in unsafe trenches and will be the cause for immediate shutdown of the project until the trench is deemed to be safe by the Public Power Director.

## 8.02 Subsurface Pipe Installation

### 8.02.1 General

Pipes, conduits or casings, 4 inches in diameter or less, may be bored, jacked, augured or jetted under sidewalk, curb, gutter if authorized by the Public Power Director. The resulting hole diameter shall not exceed 1 inch plus the outside diameter of the pipe or sleeve installed.

### 8.02.2 Boring or Jacking

Boring or jacking work shall meet the requirements and specifications of APWA 33 05 23 (Trenchless Utility Installation).

### 8.02.3 Tunneling

Where sidewalk, curb, and gutter exist, excavation may be made by tunneling provided the following requirements are met:

1. Excavation shall be vertical and as near to the curb or sidewalk as possible.
2. The length of the tunnel shall not exceed the width of the sidewalk, curb, and gutter.
3. Where a separate sidewalk and curb exist, an excavation shall be made between the sidewalk and the curb.
4. At least three feet of undisturbed earth shall be left under the sidewalk or curb; and
5. Where the sidewalk has been tunneled, the hole shall be filled from each end with flowable fill. Where the excavation cannot meet these requirements, a section of sidewalk, curb, or gutter, from joint to joint shall be removed and replaced.

## 8.03 Fill Material

### 8.03.1 General

All fill material shall be placed on sub-grade prepared according to the specifications of this chapter. All fill material shall be compacted according to the specifications of this chapter.

All fill material under and within a foot of electrical boxes shall be untreated base course. In other areas native excavated material may normally be used unless such material cannot be properly compacted according to specifications in this chapter. All fill material, including native fill material, must be free from debris, organic material, and rocks larger than 6 inches in diameter.

### 8.03.2 Bedding Material

Use sand as a bedding material for electrical conduit. Bedding sand must compact sufficiently to support the pipe and shall meet the following gradation:

#### Sand Gradation

Sieve/Screen Size	% Passing
No. 4	100
No. 200	10 to 20

## 8.04 Installation and Compaction of Earth Materials

### 8.04.1 General

The installation of all fill material shall meet the requirements and specifications of APWA 33 05 20 (Backfilling Trenches), APWA 31 23 23 (Backfilling Structures), APWA 32 05 10 (Backfilling Roadways) and APWA 31 23 26 (Compaction). Fill material outside of pavement areas, as defined by APWA 32 05 10 (Backfilling Roadways), and more than 24 inches from any utility box shall be compacted to not less than 90% of the maximum dry density.

### 8.04.2 Backfill in Trenches

Backfill shall be carefully placed around and over pipes and shall not be permitted to fall directly on a pipe from such a height or in such a manner as to cause damage.

### 8.04.3 Conduit Zone (Refer to Sheet E11)

The conduit zone includes the full width of trench from 3 inches below the conduit to 12 inches above the conduit for all conduit. Electrical conduit may be placed to 3" off the sides of trenches. Trenches shall be wide enough to compact fill material according to the specifications in this chapter.

---

Electrical Service

## SECTION 9 GENERAL

## 9.01 Standards and Specifications

All electrical work shall be installed in accordance with these development standards, the most current edition of the National Electrical Code (NEC) and the National Electric Safety Code (NESC), and applicable State, County and OSHA codes and ordinances.

These specifications cover the installation of the electrical system. See Section 2 for improvement and design requirements, Section 6 for inspection and testing requirements, and Section 8 for earthwork and trench requirements. See standard drawings related to electrical system.

## 9.02 Construction Costs

All costs to install or relocate facilities to provide electrical service shall be paid by the Customer.

If a temporary electrical service is needed the contractor/developer is responsible for providing and installing the required conduit, grounding, transformer pad, and metering equipment as directed by the City. There will be a rental fee for the transformer needed that will be determined based off of the length of time the unit is needed. Brigham City Power will provide and install all primary wiring and transformer at the developers/contractor's expense. Any fees paid to the City for these purposes will not be refundable or be applied to any other electrical fees.

## 9.03 Attaching to Existing City Facilities Prohibited

Customer shall install no wiring or attachments on poles or other equipment of the City unless specifically authorized, in writing, by the City.

## 9.04 Unusual Service Extensions

Special and unusual service extension requirements for equipment or structures are treated as separate items and are not included in these standards.

## 9.05 Permits and Inspections

Service will not be established until all necessary permits have been obtained and not until Customer's wiring installation has been inspected and approved by the Public Power Director. Any variations of this must be preapproved by the Public Power Director. The City reserves the right to inspect wiring and to refuse service to any installation that is, in the opinion



of the Public Power Director, unsafe or if the operation of same may be detrimental to the service furnished to other Customers or the City. All conduits shall be inspected prior to backfilling. All concrete street light bases, concrete transformer pads and other required concrete shall be inspected prior to pouring concrete. A compaction test shall be taken by the City or an approved engineering firm prior to setting any electrical enclosures, cabinets, or other structures. In addition, a test shall be taken on the concrete used for electrical pole bases, and pads.

9.06 Access to Premises

Any properly identified representative of the City shall, at all hours, have free access to and from the premises of the Customer for the purpose of inspecting Customer's installations and electric equipment and for the purpose of reading, repairing, testing, or removing the City's meter or its other property. When, as declared by the Public Power Director, emergency conditions exist with respect to City's service, City's representative shall have immediate and free access to Customer's premises.

9.07 Electrical Plan Drawings

Brigham City Public Power shall design the electrical system and provide approved electrical plan drawings. Requests for any changes to these drawings can be made by contacting Brigham City Public Power with a proposal. Approved electrical drawings must be initialed by an approved electrical division supervisor and signed by Brigham City Public Power to be valid for construction of the electrical system improvements. Photocopies of approved drawings will not be considered valid. Revisions, if needed, must also include the date the revision was approved.

9.08 Electrical Box Clearance

All electrical boxes shall have 12 feet clearance to the front and 3 feet clearance to the back and on either side. Secondary pedestals shall only require 3 feet of clearance on all sides. Switchgears shall have 12 feet clearance in front of the doors and 3 feet of clearance on the sides. Meters, metering cabinets & enclosures, service disconnect cabinets & enclosures, & CT cabinets, shall have a minimum of 8 feet of clearance in front of said cabinets & enclosures. All electrical sectionalizers, transformers, switchgear, etc. shall have a clear and level working space around them. The area shall be backfilled and leveled a minimum of 12 feet in all directions from the respective electrical device.

Meters, meter cabinets, services and related electrical cabinets shall not be enclosed by carports, sheds, out buildings, additions or remodels or other such buildings. Brigham City Public Power shall have ready access to such equipment for safety & maintenance. The City reserves the right to

disconnect the City electrical service to meter bases, services, etc. if in the opinion of the City the service is inaccessible or unsafe until the service & safety issues are resolved to the City's satisfaction. This may include, but is not limited to relocating the service, or upgrading the service to meet current City codes.

9.09 Overhead Electrical Power Line Clearances (Refer to Sheet E21)

As set forth in Section 54-8c-1 through Section 54-8c-7 of the Utah Code, no person or thing may be brought within 15 feet of any high voltage overhead power line unless:

The responsible party has notified Brigham City Public Power of the intended activity; and

The responsible party and Brigham City Public Power have completed mutually satisfactory safety precautions for the activity; and

The responsible party has made prior arrangements to pay Brigham City Public Power for the mutually satisfactory safety precautions (if applicable).

No building, dwelling, sign, bridge, antennae, or structure shall be constructed, or placed underneath any overhead electrical power lines, and shall meet current NESC/NEC and City clearance requirements, both vertically and horizontally, from said power lines. Variances shall only be allowed at the City's discretion.

If existing buildings or structures exist under power lines, those same buildings or structures shall not be modified, remodeled or constructed to further encroach upon the clearances from said power lines.

In general, for overhead high voltage open supply conductors operating from 750 volts to 22,000 volts nominal, the space extending from grade level to the height of the conductor vertically and 15 feet horizontally from the further most outside conductor from the pole shall be kept clear from the power lines. Furthermore, for overhead high voltage open supply conductors operating from 22,001 volts to 138,000 volts nominal, the space extending from grade level to the height of the conductor vertically, and 30 feet horizontally from the further most outside conductor from the pole shall be kept clear from the power lines. Open water, swimming pools, combustible materials or hazardous locations may have additional clearances required.

Additional clearances may be required depending on the installation or application.

## SECTION 10 VOLTAGE AND ENERGY REGULATION (Refer to E19)

### 10.01 Available Voltages

#### Standard Electrical Services

Residential	Commercial and Industrial
1 Phase	3 Phase
3 Wire	4 Wire
120/240 Volts	208Y/120 or 480Y/277 Volts

Developers must contact the Public Power Director regarding the availability of other service options.

The Public Power Director reserves the right to deny a customer 3-phase service if the Public Power Director determines that single-phase service will adequately supply Customer's load requirements. The Public Power Director reserves the right to deny a customer single phase service if the Public Power Director determines 3-phase service is in the best interest and beneficial to the City's electrical system.

### 10.02 Phase Service

3 phase service may, at the City's option, be furnished where 3 phase facilities of adequate capacity are already installed immediately adjacent to the point where service is to be delivered to Customer, or where, as determined by the City, it is economically feasible to extend such 3 phase facilities.

The City reserves the right to refuse to extend or install 3 phase facilities to serve motors individually rated at 20 HP or less and to furnish only single-phase service for such motors. In such an event, Customer may elect to install single- phase to 3 phase conversion equipment to operate 3 phase motors.

### 10.03 Power Factor Correction

The City reserves the right to require the Customer to install power factor corrective equipment. This equipment shall maintain the power factor on all of Customers electric power meters to not less than 95% lagging at all times.

#### 10.04 Load Control

The Public Power Director reserves the right to require developers to install equipment to limit load and reduce voltage fluctuations.

#### 10.05 Voltage Control

Where Customer installs power factor corrective equipment, the City reserves the right to require Customer to install controls and equipment to prevent voltage, frequency, and/or harmonics problems that may be detrimental to other Customers or the City.

#### 10.06 Fluctuating Load Limitations

Where large fluctuating single-phase loads, such as spot welders, are involved, the City reserves the right to require such loads to be supplied by means of a 3 phase to a single-phase converter or other similar equipment. All conversion equipment shall be installed, owned, operated and maintained by the Customer.

In the event a separate service or transformer installation or additional transformer capacity is required to adequately serve fluctuating loads (such as X-ray equipment, welders, etc.). Such equipment costs and installations shall be the responsibility of the Customer.

#### 10.07 Penalties

If, such voltage control equipment is not installed by Customer, Customer may be required to pay a power factor penalty and/or all electric service shall be subject to disconnection as provided by Title 50 of the Brigham City Public Power Municipal Code. Customer's wiring used to supply such fluctuating loads shall be installed in a continuous run of rigid conduit and cable as approved by the City.

### SECTION 11 MATERIALS

#### 11.01 Materials

Only electrical grade materials and apparatus shall be used. The materials and apparatus shall be UL Listed and designed for their purpose.

#### 11.02 Conduit

All conduits shall be electrical grade conduit. Conduit shall be Schedule 40 PVC unless otherwise specified by the Public Power Director. Electrical grade Schedule 40 fiberglass and/or PVC conduit shall be used under collector and arterial streets and for all sweeps. Fiberglass conduits shall not be used for riser poles. All conduits extending out of the ground outside of an enclosure shall be rigid metal and the elbows attaching to those risers shall be either rigid metal or fiberglass. All conduits entering any cabinet,

enclosure, vault, or ground sleeve shall have end bells attached to the ends of conduits to protect wire from damage. All buried metal conduit shall be coated with anti-corrosion tape. Tape shall be a minimum of 2 inches wide. Tape shall extend 6 inches above finished grade.

#### 11.03 Enclosures (Refer to Sheets E5-E9 and Sheets E12-E14)

All enclosures, including primary and secondary junction boxes, shall be level. Opening mechanisms and locking devices on all transformer equipment shall be 4 to 6 inches above final grade. Opening mechanisms and locking devices on all primary sectionalizers, switchgear and secondary junction boxes shall be 10 inches above final grade. Only approved enclosures, pads, and vaults shall be used.

#### 11.04 Soils & Compaction (Refer to Sheet E10)

All soils under enclosures shall be approved road base and be compacted to 95% of dry density. The compaction area must extend at least 1 foot past the enclosure in all directions and be a minimum of 1 foot in depth under the enclosure. A compaction test shall be required before any enclosure, box, sleeve, or pad is set into place. The compaction test shall be taken by the City or by the City's approved engineering firm. If ground sleeves or pads settle, Developer shall be required to re-level to the above specifications. If primary enclosures or transformers settle after being energized, the City shall re-level the equipment at the Developer's expense.

### SECTION 12 INSTALLATION (Refer to Sheets E5 – E9 and Sheets E12-E14)

#### 12.01 General

All electrical facilities shall be installed under the supervision of a licensed electrical contractor or journeyman lineman. **A certified journeyman electrician or lineman shall be on site during all conduit installation, cable pulling and connecting of electrical wiring.** All electrical installation & equipment shall be installed in a neat and workmanlike manner.

Curb & gutter shall be installed before excavation of electrical trenches. The curb should have property corners pinned in the top of the curb by approved methods. The curb will give reference for proper conduit depths & locations, and proper placement of electrical and communications boxes. Developer required to notify communication company and give up to 1 week to install communication lines. Open trench will be backfilled up to communication lift during waiting period.

Contractor shall construct all electrical facilities in a development except for the following which shall be completed by the Utility:

1. Pulling high voltage underground cable.
2. Installing high voltage cable terminations.

3. Setting transformers and switch gears (contractor shall furnish & install sectionalizers).
4. Secondary connections shall be connected in transformers (exception: contractors shall connect secondary connectors in 3 phase transformers);

All overhead facilities, including extension of risers as shown in the standard drawings. (Refer to Sheet E20)

#### 12.02 Underground Lines

All new facilities shall be constructed underground unless otherwise authorized by the City. Existing buildings & facilities that have a change of use, or extensive remodeling, may, at the Public Power Director's discretion, be required to install underground power lines. No overhead power will be allowed unless required or approved by the Utility.

#### 12.03 Conduit Depths

High voltage (12.47kV) primary conduits shall always be installed below secondary (600 volts or less) conduits & communications conduits if installed in a joint trench application. No primary high voltage conduits shall be installed at less than 4 feet in depth to top of conduits unless otherwise approved.

In general, the following table of depths shall be used for electrical conduit: (Note: depths are to the top of conduits)

Table 12.03.A  
Electrical Conduit Depths

Conduit Size	Depth to Top of Conduit
1" Street Light	2 Feet
2" Secondary	2 Feet
3" & 4" Secondary	2 Feet
4" Primary	4 Feet
6" Primary	4 Feet*

\*Depths may increase depending upon application.

#### 12.04 Pull Strings

All primary conduits shall have 1,350 lb. mule tape in the conduit securely tied off in each pad or enclosure.

#### 12.05 Identification Tape and Stub Markers

All conduits shall have a caution tape buried 12 inches below grade directly above conduit. Tape shall meet the requirements and specifications of APWA



23 20. The end of each stubbed conduit, including service laterals, shall be marked to the surface according to the standard drawings.

#### 12.06 Underground Metal Conduit

If underground metal conduit were allowed, all buried metal conduit shall be coated with anti-corrosion protective tape. Tape shall extend 6 inches above finished grade.

#### 12.07 Road Crossings

Conduit shall be schedule 80 gray PVC or rigid fiberglass conduit. Shadow conduit shall be installed at road crossings at Public Power Director's discretion.

#### 12.08 Berms, Slopes, and Hillside Conditions

For installation instructions around berms, slopes, and hillsides contact Brigham City Public Power.

#### 12.09 Labels

A label shall be securely taped to the end of each conduit run where it emerges into any cabinet or enclosure. The label shall indicate whether the conduit run is primary or secondary and the direction & footage of conduit.

### SECTION 13 SYSTEM REQUIREMENTS

#### 13.01 Additional Capacity Requirements

In the event a Customer makes application for additional capacity, subject to provisions of the applicable rate schedule, Customer shall install the necessary transformer capacity, service wires and other equipment required to adequately serve Customer's requirements. Customer will be required to submit a Brigham City Load Sheet to be completed by electrical engineer, architect, or master electrician. Report shall include all existing and future load.

Customer shall be required to participate in system load study to ensure needed capacity is available through City's transmission system. Customer shall be responsible for all costs associated with said study.

All applications for service involving the furnishing of additional capacity or equipment by the City may be required of the Customer. The application shall state that any service entrance wiring and main switches required for the utilization of such additional capacity to be furnished by Customer, shall be considered as permanent fixtures belonging to the property being served and property except for replacement or enlargement if necessary.

### 13.02 Substations

Substation may be required of Customer. The City reserves the right, where unusual substation capacity or voltage is involved, to require the Customer to install the necessary complete substation as provided for in City's rate schedule.

Where the Customer furnished the necessary complete substation equipment to take service at primary service voltage, such equipment shall be owned and maintained by the Customer and shall include the necessary transformers, structure, controls, and protective equipment, and shall be of such quality and construction as meets City approval. Customer shall supply main transmission breaker to City for ownership and operation providing interconnection to transmission system. Operation of said breaker will be controlled by the city.

## SECTION 14 SERVICES

### 14.01 Point of Service

The Public Power Director determines the point of delivery for all developments. Public Power Director reserves the right to meter service at either primary or secondary voltage. For large or unusual loads, Public Power Director reserves the right to require Customer to take service at primary voltage and to require Customer to furnish the necessary complete substation equipment. The Public Power Director will decide if multiple buildings, business and residential, or portions of buildings will be metered from one or from multiple metering points. Each building or structure served shall be supplied by only one service. Multiple services are only allowed at the Public Power Director's discretion.

### 14.02 Service Entrance Requirements

The service entrance shall be defined as the facilities that consist of approved service entrance conduit and cable enclosing conductors and apparatuses. Said conductors shall extend from the point of contact with the City's secondary point of service and thence to and include Customer's service entrance safety switch or disconnection means.

Customer shall install all conduit and wire from the building to the pole or transformer according to the City standards.

1. Service Entrance Safety Switch or Main Disconnect for new construction and remodel. A residential service safety switch shall be an exterior service combination meter base and main disconnect device. For commercial & industrial installations a service safety switch shall be an exterior service main disconnect device or devices, which will always

remain accessible. This device shall be a main breaker, but minimum requirement shall be a safety switch, which will disconnect all service power from the premise wiring to the entire facility. The location of the main disconnecting device shall be approved by the City.

2. Identification. (Current NEC) Where a building or structure is supplied by more than one service, or any combination of branch circuits, feeders, and services, a permanent plaque or directory shall be installed at each service disconnect location denoting all other services, feeders, and branch circuits supplying that building or structure and the area served by each.
3. Service Entrance Conductors. All service entrance conductors and any conduit enclosure shall be continuous, unbroken, and completely exposed for external inspection throughout their entire length, extending from said point of contact with City's service wires to the meter socket (or meter cabinet if installed) and thence to Customer's service entry safety switch or main disconnecting means. Service entrance conductor type & size shall meet current NEC, NESC, and City Standards. Brigham City Public Power reserves the right to make an allowance as needed.

Underground service lateral conductors from the City's Secondary service point up to the line side of the main disconnecting means shall be installed, maintained, and owned by the Customer. The City assumes no liability for replacement of secondary service lateral conductors.

#### 14.03 Underground Residential Service Requirements (Refer to Sheets E2 and E15)

##### 14.03.1 Conductor,\* conduit sizes, & conduit depths

Refer to following table:

Service Size	Service Conductor Size (AWG)	Conduit Size	Conduit Depth
100 amp	2/0 alum.	3"	2'
125 amp	2/0 alum.	3"	2'
150 amp	2/0 alum.	3"	2'
200 amp	2/0 alum.	3"	2'
201-400 amps	Contact Brigham City Public Power	Contact Brigham City Public Power	Contact Brigham City Public Power

\*Table 14.03.1.A Note: The current National Electric Code may supersede these conductor sizes based upon service size. Refer to current NEC for service conductor sizes for other types of conductors & installations.

**14.03.2 Conduit (Refer to Sheet E11)**

Only continuous factory lengths of conduit shall be used. Conduit may be cut or spliced; however the couplers & bends shall not exceed a 360-degree pull on the overall length of the conduit run. Conduit shall be installed in a neat and workman-line manner. All service lateral conduits shall be inspected prior to backfilling.

**14.03.3 Materials**

Only electrical grade materials shall be used. Rigid metal conduits (RMC), schedule 40 fiberglass and schedule 40 PVC shall be used for any elbows or bends 45 degrees or greater. RMC shall be coated with an anti-corrosion tape below grade and tape shall extend 6 inches above finished grade. RMC shall be used for all above grade service entrance conduits. Customer shall provide and install service wire from house to junction box, transformer or pole according to City standard drawings. Service wire type shall be approved by Brigham City Public Power.

**14.03.4 Trenching**

Service lateral trenches shall be 24 inches in depth. Trenches shall be as straight as possible from the secondary service point to the Customer disconnect or meter base. The bottom of the trench shall be as level as possible and free from rocks & debris. Backfill placed directly on conduits shall be free from large rocks.

**14.03.5 Service Entrance Conduits Support and Attachments**

Service Entrance conduits shall be securely attached to the foundation of house or building by means of unistrut, concrete anchors, and unistrut type clamps. Unistrut shall be securely attached to foundation by a minimum 3/8 inches x 3 inches concrete anchors. Unistrut shall typically be 24 inches. Service entrance conduits shall be one continuous, unbroken conduit from the elbow to the point of attachment at the meter base hub.

**14.03.6 Location(s)**

Note: Refer to 15.02 Metering for additional requirements. Meter/main disconnect shall be located within the front 6 feet of the side of a residential dwelling. Meter/main disconnect shall always be accessible. Meter/main disconnect shall be kept a minimum of 36 inches from any natural gas meters, window wells, windows, doors, stairs and any material deemed

to be combustible or hazardous. For remodels, service upgrades, building additions or other instances or applications affecting the existing electrical service, CT cabinet, meter base, meter and disconnect contact the Brigham City Public Power for requirements. Brigham City Public Power will require a meter main disconnect to be installed anytime electrical upgrade work is performed on the residence. The service, meter, meter base, or disconnect may be required to be relocated to meet current Standards and Codes. Meter/main disconnect shall meet all applicable NEC and NESC codes. The Public Power Director reserves the right to accept or reject any locations of meter base/main disconnects.

#### 14.03.7 Temporary Underground Service (Refer to Sheet E18)

For temporary service furnished to individual small single-phase loads, such as house trailers, small construction projects (such as house and small buildings, portable tools, etc.) City will install a standard temporary service drop, at Customer's expense. City's General Service Rate shall apply.

Where the temporary service installation requires additional facilities more than the previously mentioned standard service drop (such as an extension of the City's primary line), such installation will be at the Customers' expense.

### 14.04 Overhead Residential Service Requirements (Refer to Sheet E3)

#### 14.04.1 General

Overhead services shall also include mast knob and service grips. Wiring shall meet load and installation requirements as indicated in the NESC/NEC.

#### 14.04.2 Service Drop Support and Attachments

For one story buildings, or where conditions will not permit proper ground clearance to be maintained by City's service wires, Customer shall install, at Customer's expense, suitable conduit or service entrance mast pipe or other structure or support that will properly support the City's service drop conductors and to maintain the minimum ground clearance as required by the NESC/NEC. If clearances cannot be met, the service may be required to be relocated or otherwise rerouted underground.

#### 14.04.3 Service Entrance Weather head Clearance

The service entrance weather head shall be located to meet or to exceed NESC/NEC clearance from readily accessible



windows, doors, or porches. The weather head must also be located so that when the service drop conductors are attached to the building structure or other service drop support, adequate clearance will be maintained away from telephone or other wires, windows, awnings, drainpipes, chimneys, or other obstructions.

14.04.4 Service Entrance Mast Pipe

This installation shall be made by Customer, at his/her expense, and shall conform to City's specifications. The service entrance mast pipe shall be of electrical grade galvanized rigid steel of not less than 2 inches inside diameter and shall be attached to the wall of the building by means of an adequate number of approved fastening devices. All service conduits shall be 2 inches in diameter, or larger.

The mast pipe and/or conduit shall be continuous, extending from the service entrance weather head located at the top of the mast pipe to Customer's meter socket base.

The service entrance mast pipe shall extend above the roof surface (through weatherproof roof flashing) so that the point of attachment of City's service wires to the mast pipe will be not less than 18 inches above said roof line, and not to exceed 36 inches without guy support to structural frame plus such additional height as is necessary so that the point of attachment of City's service wires will maintain minimum ground clearance, specified in the NESC/NEC.

14.04.5 Service Drop Attachments to Buildings

The Customer will furnish and the city will install the necessary attachment brackets and apparatuses to attach City's service wires to Customer's service drop termination facilities.

The City further reserves the right to require that the installation of the necessary mast pipe or equivalent facilities required supporting city's service wires, be made by Customer during the course of building construction.

Where the exterior of buildings is finished with brick facing, concrete, plastered metal lathe, sheet iron, stucco, tile or similar material, suitable facilities of adequate strength to hold City's wires and attachments, shall be installed by Customer at Customer's expense.

**14.04.6 Service Drop Conductor Ground Clearance**

The service drop conductors must be located at such height as will enable adequate clearance to be maintained through the entire service drop length. The minimum ground clearance shall be as specified by the NESC/NEC, but not less than 12 feet over driveways not subject to truck traffic; 16 feet over commercial areas, parking lots and other areas subject to truck traffic; and 22 feet over public streets, alleys and roads. The final height attachment determination shall take into consideration conductor sag due to weather fluctuations & lengths of spans.

**14.04.7 Service Entrance Conductor Specifications**

The service entrance conductors may be either copper or aluminum, and shall be continuous without any joints, splices or connections, extending from the point of connection with service drop conductors to the termination of same at the meter socket or meter cabinet and thence same shall continue without joints, etc., to Customer's service entrance safety switch.

The Customer shall have electrical Contractor provide at the service entrance weather head, sufficient excess service entrance conductor length or "tails" (18 inch minimum) so that the City can connect directly to the service drop conductors. The service entrance installation shall conform in every respect to City's specifications, as to conductor connectors, and the method of making connections and all other related matters involved.

The service entrance conductor size for the ampere load to be carried shall be based on a maximum conductor operating temperature of 75°C (type RH, RHW, XHHW, or equivalent.)  
Note: Refer to Table 14.03.1.A regarding service conduit & conductor sizes.

**14.04.8 Main Breaker or Disconnect**

The entrance safety switch or main breaker ampacity shall not be less than the rated ampacity of the service conductors. Other specifications, including conductors, shall conform to the latest edition of the NEC.  
Upon special application, City may permit 2 or 3 wire service entrance installations of less than 100 ampere capacity for signs, etc., where the load requirements, as determined by

City, justify the same. In no event will 2 wire service be furnished except at city's option.

14.04.9 Temporary Service Drops (Refer to Sheet E18)

For temporary service furnished to individual small single-phase loads, such as house trailers, small construction projects (such as house and small buildings, portable tools, etc.) City will install a standard temporary service drop, at Customer's expense. City's General Service Rate shall apply.

Where the temporary service installation requires additional facilities more than the previously mentioned standard service drop (such as an extension of the city's primary line), such installation will be at the Customers' expense.

14.04.10 Service to Mobile Homes and Trailer Courts through one meter

For service to trailer courts where more than 1 dwelling unit, mobile home, or trailer exists, the campus shall be supplied through 1 meter and the furnishing of such service shall be provided and installed by the facility owner.

14.04.11 Load to be Balanced on Circuits

The Customer shall use reasonable care in designing electric wiring and circuits; also, the connection of the loads to the circuits, so that the loads on the individual phases and circuits of City's service are properly balanced at all times.

14.04.12 Temporary Service to be Installed on Customer's Pole

All such temporary service drops shall be supported on a pole or post as approved by the Public Power Director and shall be installed by Customer at his/her expense.

14.05 Underground Service Requirements for Multi-Family Dwelling Units

14.05.1 General

Service lateral conduits from the City's point of secondary service shall be 4 inches minimum for multi-family dwelling units. A load calculation study shall be performed for multi-family dwellings units and submitted to Brigham City Public Power. All other residential service requirements apply.

14.06 Underground Service Requirements for Commercial & Industrial Applications

14.06.1 General

Service entrance conductors & conduits shall be sized according to applicable NEC and NESC codes. The City shall

approve all locations & installations of conduits, service disconnection means, and meters.

- a. All commercial & industrial buildings shall have an accessible, exterior main disconnecting means that is capable of disconnecting (opening) all service entrance conductors from the building or structure premises wiring.
- b. All services rated 801 amps or more supplied by a 4-wire three phase 480Y/277 volt connected system shall have a ground fault test performed for protection of equipment.
- c. All services, equipment, cabinets, conduits, etc. shall be grounded & bonded according to applicable NEC & City codes.
- d. The service disconnecting means shall be identified as suitable for use as service equipment.
- e. A building or structure may only be served by one service lateral or service drop, unless otherwise approved by Brigham City Public Power.
- f. There shall not be more than 6 service disconnects for each service. Each service disconnect shall be permanently marked to identify it as part of the service disconnecting means. All service disconnecting means for each service shall be grouped together.
- g. The center of the operating handle of switch or breaker, when in its highest position, shall not be more than 5 feet and not less than 4 feet above finished grade.

#### 14.06.2 Materials

Only electrical grade & UL listed materials shall be used. Rigid metal conduits (RMC), schedule 40 fiberglass and schedule 40 PVC shall be used for any elbows or bends 45 degrees or greater. RMC shall be coated with an anti-corrosion tape below grade and tape shall extend 6 inches above finished grade. RMC shall be used for all above grade service entrance conduits. Customer shall provide service wire from building to utility transformer or pole. All electrical equipment, cabinets, panels, etc. shall be UL listed and approved for the installation.

#### 14.06.3 Trenching

Service lateral trenches shall be 2 feet in depth. Trenches shall be as straight as possible from the secondary service point to the Customer disconnect or meter base. The bottom of the trench shall be as level as possible and free from large rocks & debris

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**14.06.4 Service Entrance Conduits Support and Attachments**

Service Entrance conduits shall be securely attached to the foundation of building by means of unistrut concrete anchors, unistrut type clamps or other approved methods. Unistrut shall be securely attached to the foundation by a minimum 3/8 inches x 3 inches concrete anchors. Service entrance conduits shall be one continuous, unbroken conduit from the elbow to the point of attachment at the meter base, CT cabinet, or main disconnect cabinet. Service lateral conduits shall be installed at a depth of 2 feet to top of conduits. All installations shall be installed in a neat and workman-like manner.

**14.06.5 Locations**

Locations of service lateral conduits shall be approved by the Public Power Director. Locations of outside main disconnecting equipment shall be approved by the Public Power Director. Meter/main disconnect shall always be accessible. Meter/main disconnect shall be kept a minimum of 36 inches away from any natural gas meters, window wells, windows, doors, stairs and any material deemed to be combustible. Meter/main disconnect shall meet all applicable NEC and NESC codes. The Public Power Director reserves the right to accept or reject any locations of meter base main disconnects. If the Public Power Director determines the service location is inaccessible or otherwise unsafe, the Customer shall relocate or upgrade service to City standards at Customer's expense. The Public Power Director further reserves the right to disconnect electrical power to the Customer's service until the service is brought into compliance.

**14.06.6 Ownership of Conductors**

For commercial underground installations the secondary service conductors and conduit paths shall be owned & maintained by the Customer from the secondary connections inside the transformer up to the termination point of the service disconnect. For commercial overhead installations the secondary service conductors shall be owned & maintained up to the overhead secondary connection point. City shall own the overhead drop up to the connections at the service mast.

**14.06.7 Energizing Development**

Developments may be energized when the following is completed and accepted by the city.



1. Curb, gutter and an all-weather road surface.
2. Electric conduit.
3. Electrical boxes and proper access to the boxes.
4. Secondary wiring, except that required for street lighting.

## SECTION 15 METERING (Refer to Sheet E22)

### 15.01 General

The city will furnish and install all electric revenue meters. Normally outdoor socket-mounted meters will be used by the city whenever practical. The meter base will be furnished and installed by Customer's electrical contractor for all normal residential installations. The meter base with test switch shall be provided by the City and installed by Customer's electrical contractor for commercial or industrial applications.

If instrument transformers are required, the City reserves the right to require customers to furnish and install a suitable steel cabinet to house City's instrument transformers and accessories. Said cabinet shall contain only the City's metering equipment and shall be equipped so that it can be sealed and locked by the City. The City shall have sole access to this cabinet.

### 15.02 Location

The City shall approve the location of service entrance and meter. The following conditions must be met for the location of all meters & services:

1. Visibility. All entrance wiring connections shall not be concealed and shall always be in plain view for inspection by the City.
2. Residential properties shall have the point of service externally installed on the primary residence of the property. If a residential property needs multiple services the amount of services must be approved by the City and be contained in one location inside one meter base that is located on the exterior of the primary residence. Any variation of this may be approved by the Public Power Director.
3. Industrial/Commercial businesses are allowed to have up to two points of service with multiple meters at each location. If more than two points of service are required due to the original design of the property or the property is expanded, then the campus will be required to install a primary metering cabinet. Electrical service to the property will be delivered at the City's distribution voltage. The location of the primary metering cabinet will be determined by the city. The City will maintain ownership and control of the metering cabinet but all conductors feeding out of the metering cabinet will be owned and maintained by the property owner.

4. A property that is undergoing renovation and has pulled a building permit or new construction will be required to relocate the electrical meter and main disconnect point (MDP) of the building to the outside of the building. The metering equipment and MDP shall be mounted to the building if under 801 amps. If service is 801 amps or greater than a freestanding MDP switchgear cabinet will be required. The MDP switchgear cabinet will need to be approved by the Public Power Director before equipment order is placed by the contractor.
5. Protection. No meter or service equipment shall be installed in any location where it may be unnecessarily exposed to heat, cold, dampness or other cause of damage, or in any unduly dirty or inaccessible location.
6. Height. The meter socket shall be mounted at a height of not less than 4½ feet, no more than 6 feet above finished grade, as the case may be. Where multiple meters are installed, care shall be taken to ensure the lowest meter is no less than 4 ½ feet and no higher than 6 feet from finished grade.

When a combination 3 phase and single-phase service is supplied to the same premises, all meters and service entrance switches shall be at the same location.

#### 15.03 Meter Base

Residential meter bases shall be furnished and installed by the Contractor according to City standard drawings. No smaller than a 100-amp service entrance will be accepted other than by approval from the Public Power Director. The meter base shall always be kept sealed and under the control of the City.

#### 15.04 Commercial Meters

Single-phase and three-phase self-contained meter bases shall be installed by the Developer and shall have bypass capability in the meter base. For details and specific information regarding this requirement, please contact Brigham City Public Power. For services rated 200 amps up to 800 amps, the Brigham City Public Power will supply the meter base & test switch for contractor to install at Customer's expense. No smaller than a 200-amp 3 phase service entrance will be accepted unless otherwise approved by the Public Power Director. For services rated over 800 amps, a manufacturer's shop drawing of the MDP switchgear cabinet with main disconnect and adequate metering provisions will need to be provided for approval. Contact Brigham City Public Power for specific requirements and submission details.

The Contractor's portion shall be completely installed, inspected, and the electrical hook-up fee paid before the City will complete the final electrical hookup.

#### 15.05 Location of Multiple Meters

Where more than one meter is required for a building, such as an apartment complex, all meter sockets shall be located side by side at an outside location as determined by the Public Power Director.

#### 15.06 Meter Location Regarding Remodeling

When remodeling, where 2 or more houses or dwelling units are combined to form one building, the meter socket shall be moved to a single location. Meter and service locations shall first be approved by Brigham City Public Power. Existing meters and services may require relocation to meet current City standards. In all remodeling where the meter is changed or moved, or wiring changes made, outdoor meter sockets and an approved new service entrance shall be installed by Customer at Customer's expense.

#### 15.07 Meter Accessibility

In the event a structural change is made by the owner that results, in the opinion of the Public Power Director, to be an undesirable meter location, the meter socket, meter cabinet, and/or service entrance installation shall be moved by the Customer at his/her expense to an accessible location as determined by the City.

Whenever the construction of a building on an adjacent lot prevents proper access to any meter, or access to the point of attachment of service drop conductors, or results in inadequate service drop clearance, the Customer shall move, at Customer's expense, the meter socket and service entrance to a location that is acceptable to City. The meter shall not be enclosed by any portion of a building. The meter shall not be placed under carports or enclosed by sheds, garages, outbuildings or other buildings. The meter shall always remain readily accessible to the City.

#### 15.08 Outdoor Meters for Non-Residential General Service

All single-phase meters installed for non-residential use shall be socket type. The meter base shall have bypass links installed. The meter socket shall be furnished and installed by Customer at Customer's expense.

#### 15.09 Instrument Transformer for Metering

In all outdoor installations requiring current transformers, whether single phase or 3 phase, the Customer shall provide an approved meter loop for meter connections. The City shall furnish any instrument transformers, meter bases, or other devices required, to properly meter the Customer's electrical needs at the Customer's expense. Such instrument transformers and devices shall be installed by the City.

#### 15.10 Current Transformer Cabinet (Refer to Sheet E19)

Any cabinets required to house said instrument transformers and accessory equipment shall be furnished and installed by Customer at Customer's expense. This requirement applies to all installations. All cabinets shall be approved by the City.

Such metering or instrument cabinets are for the exclusive use of City, and shall always be under the control of, and kept sealed by City.

#### 15.11 Unacceptable Meter Locations

For reasons of public safety, maintenance of service equipment, and reliability of metering, meters shall not be installed in any of the following locations:

1. Inside any building, unless located within an acceptable meter room.
2. In any location that is not readily accessible.
3. Directly over any stairway, ramp or steps.
4. In any substation or transformer vault.
5. Accessible only by a trap door or in any location which may be hazardous to personnel.
6. On any surface subject to excessive vibration.
7. In or accessed through any rest, bath, shower, powder, or toilet room.
8. In any elevated area.
9. In any location not providing a clear and continuously unobstructed working space extending a minimum of eight (8) feet from the face of the meter panel and having a width to permit ready access to the complete metering installation.
10. In any location where moisture, fumes, or dust may interfere with the operation of the meter or damage it.
11. In any location giving less than three feet clearance to any property line, or with less than three feet clearance to any sidewalk, alley or driveway giving access to non-residential or industrial property.
12. In any basement or depressed area.
13. Within carport or patio areas which are or can become enclosed, when served overhead or underground.
14. Mounted on BCPP poles.
15. In a room containing mechanical equipment.
16. In any elevator shaft or hatchway.
17. Mounted on any trees.
18. In any unsanitary areas in reference to farm animals and products.
19. In a plenum or any portion of a return or supply air ducting system.
20. Areas where entry may be restricted or controlled because of medical, health, environmental or other safety-related issues.

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SECTION 16 LIGHTING AND SIGNAL POLES (Refer to Sheets E16-E17)

## 16.01 General

The City shall provide the street light poles, fixtures & associated parts to install the streetlights. The contractor is responsible for transport of the streetlights from the Public Power Department to their respective developments. Furthermore, the contractor shall be responsible for pouring the concrete bases, assembling and erecting the streetlights.

All local streets, minor & major collectors, and arterial streets shall have the decorative streetlight as shown in the standard drawings or as designed. 25-foot steel galvanized poles with a 6-foot arm, and either a 100-watt or a 250-watt equivalent LED cobra head type fixture may be used or substituted for a decorative type pole & fixture at the City's discretion. All fixture types will be of the Luminaire type with 90-degree cutoff lens.

All traffic signal poles shall be powder coated black.

## 16.02 Dark Sky

All street and parking lot lighting shall meet the IDA (International Dark-Sky Association) recommendation and City ordinance for dark sky compliance. This will require that all lighting, streetlight, parking lot lighting, walkway lighting, etc., cannot broadcast light above 180° from the parallel ground surface. It is advised that all lighting on buildings, such as security lighting, also meets this requirement.

## 16.03 Location

In general, streetlights will be installed at all intersections except where a four-way intersection has an offset of less than 100 feet from another intersection. Streetlights shall be installed on the top of all traffic signal poles. Streetlights for local streets will be installed with a maximum spacing of 400 feet between lights. All mid-block streetlights shall be installed 18 inches from a property line. Collector and arterial streets shall have lights spaced at 175 feet apart on alternating sides of the street. In addition to the typical location design and layout, street light locations may also be designed by Brigham City Public Power. Commercial right-of-way lighting needs to be staggered 125 feet with a maximum of 250 feet of spacing on each side of the ROW.

Each streetlight will be installed so that the street light pole is centered in the planter strip or within 18 inches of the sidewalk if no planter strip exists.

## 16.04 Orientation

Streetlights at intersections of local streets shall aim at the center of the intersection. On collector or arterial streets streetlights shall be set at a 90-degree angle at regular intervals determined by the City.



16.05 Grounding & Bonding

A bonding wire shall be connected from the rebar “Ufer” rings in the concrete pole base to the street light pole grounding/bonding screw or termination point using NEC approved methods and a separate grounding wire will be installed from the pole to the closest secondary pedestal or transformer. The grounding conductor shall be terminated with the neutral conductor.

16.06 Wiring & Fusing

A 10-amp in-line fuse & fuse holder shall be installed in the junction box on the 120/240-volt ungrounded conductors.

## VEGETATION MANAGEMENT

### SECTION 17 VEGETATION MANAGEMENT

#### 17.01 Overview

When feasible, BCPP prioritizes the removal of tall-growing trees and vegetation to prevent future conflicts with overhead power lines, while supporting the establishment of low-growing species that will never interfere with the high-voltage lines. Considering the interests of property owners and other land use objectives, it is not always possible to remove incompatible trees.

Tall-growing trees that cannot be removed must be pruned to maintain clearance around power lines through use of arboriculturally sound pruning practices.

#### 17.02 Professionalism

In accordance with ANSI Z133, all personnel working in proximity to overhead conductors at any time are required to hold one of the following designations: Qualified Line Clearance Arborist or Qualified Line Clearance Arborist Trainee.

#### 17.03 Safety

The safety of workers and the public should always be given the highest priority. Federal and state requirements governing vegetation management activities shall always be followed, including all OSHA requirements. ANSI Z133 (2107 or most current) and OSHA 1910.269 are examples of these requirements. Activities shall be conducted to minimize tree crew and public safety risks.

Table 17.03.A Minimum approach distances for Qualified Line Clearance Arborists and Qualified Line Clearance Arborist Trainees.

Voltage (kV) (Phase-to-Phase)	Minimum Approach Distance Sea Level to 5,000 ft.	Minimum Approach Distance 5,000 to 10,000 ft.	Minimum Approach Distance 10,000 to 14,000 ft.	Source*
0.05-0.300	Avoid contact	Avoid contact	Avoid contact	APM/Z133
0.301-0.750	1' - 6"	1' - 7"	1' - 7"	APM/Z133
0.751-15.0	2' - 6"	2' - 7"	2' - 10"	APM/Z133
15.1-46.0	3' - 6"	3' - 7"	3' - 8"	APM/Z133
46.1-72.5	3' - 6"	4' - 0"	4' - 4"	Z133
72.0-121.0	3' - 11"	4' - 6"	4' - 10"	Z133
121.1-145.0	4' - 6"	5' - 2"	5' - 7"	Z133
145.1-169.0	5' - 1"	5' - 9"	6' - 3"	Z133
169.1-242.0	7' - 0"	7' - 11"	8' - 7"	Z133
242.1-362.0	11' - 9"	13' - 6"	14' - 7"	Z133
362.1-420.0	14' - 8"	16' - 9"	18' - 2"	Z133
420.1-550.0	17' - 6"	20' - 0"	21' - 8"	Z133
550.1-800.0	23' - 9"	27' - 2"	29' - 5"	Z133

#### 17.04 Fire Protection

Federal, state, and local fire protection laws and regulations shall be followed, and the Tree Crew Foreman performing the work must obtain necessary work permits. Crews shall have all fire suppression tools and equipment required by the governmental agency responsible. Tree Crew Foreman shall also adhere to fire restrictions concerning work hours, fire watch following work, and other policies of the pertinent jurisdiction. Tree Crew Foreman with crews working in fire-prone rural areas shall provide basic fire prevention and suppression training to their crews annually. Documentation of this training shall be submitted annually to the BCPP Director July 1<sup>st</sup>.

#### 17.05 Species of concerns

Vegetation maintenance shall not disturb or harm any rare, threatened, endangered, or protected plant or animal species. Nesting season work restrictions exemplify important scheduling considerations necessary to accommodate protected species. If there are rare, threatened, endangered, or protected plant or animal species present at a location where work is planned, the Tree Crew Foreman must stop work and immediately inform the BCPP Director.

#### 17.06 Bird Protection

Migratory birds are protected by the Migratory Bird Treaty Act of 1918 (16 USC 703-712) (MBTA). Most bird species are protected under the MBTA; therefore, in an abundance of caution, all bird species should be considered subject to

the law's provisions. The Tree Crew Foreman shall conduct vegetation maintenance consistent with the MBTA.

The MBTA prohibits removal of bird nests that have eggs or chicks and killing any birds which are members of any protected species. Active nests may not be disturbed unless the BCPP Director, after consultation with U.S. Wildlife Services has provided authorization. If tree crews identify a possible immediate risk (e.g., active nest in the vicinity of vegetation listed for work), the Tree Crew Foreman shall contact the BCPP Director. The Director will consult with U.S. Wildlife Services regarding whether work may proceed. If work is postponed until after young have left the nest, the location must be recorded and tracked to ensure completion at the appropriate time.

The nests of eagles threatened and endangered species, and colonial waterbird nests (such as those of herons) may not be disturbed – whether or not they are active. Eagles are subject to additional protection; it is illegal to disturb them near their nests or winter roosting sites. If large stick nests, suspected to be protected nests, are in vegetation identified for removal, the Tree Crew Foreman must contact the BCPP Director who will consult with the U.S. Wildlife Services.

Raptors (birds of prey) and herons require buffers around active nests to prevent them from being disturbed, unless instructed otherwise by U.S. Wildlife Services or applicable regulatory authority.

Table 17.06.A Work buffers around active nests of eagles, hawks, and herons.

Species	Work buffer
Bald Eagles (Jan 1-Aug 31)	660 feet
Bald Eagle roosts (Nov 1-Mar 31)	0.25 mile
Golden Eagles (Jan 1-Aug 31)	0.25 mile
Hawks (exceptions below)	600 feet
Ferruginous hawk	0.5 mile
Northern goshawk (Mar 1-Aug 31)	0.5 mile
Swainsons hawk	0.25 mile
Owls	300 feet
Great Gray Owl	0.25 mile
Northern Spotted Owl	0.25 mile
Osprey	600 feet
Herons/Colonial Nesters	600 feet
Songbirds	50 feet

In general, if a bird leaves a nest and does not return within an hour, it is being disturbed, and the buffer should be increased. In these cases, U.S.

Wildlife Services should be contacted within 24 hours to monitor the nest and respond appropriately if the adults fail to return.

Active bird nests and inactive bird nests should be reported to the BCPP Director and U.S. Wildlife Services.

#### 17.07 Tree Removal

In certain circumstances, it is necessary or appropriate to remove trees (i.e., removed the threat posed to electrical infrastructure or remove the tree from the “inventory” of future work). When a tree is removed, the stump shall be cut to within 6 inches of the ground or as close to it as practical (for example, at the top of a barbed wire fence that has become imbedded in the trunk). Stumps of all deciduous trees, brushes, and vines that are removed shall be treated with an approved herbicide, unless otherwise indicated by landowner or restricted by the land managing agency. Tree removal may be discretionary or necessitated by the presence of Hazard Trees.

##### 17.07.1 Hazard Trees

“Hazard Trees” are defined as a tree in whole or in part, that might fail, and which is identified as a likely source of harm. Trees that are dead, dying, diseased, deformed, or unstable, which have a high likelihood of falling and contacting a specific target (electrical infrastructure) should be assessed for removal. The Tree Crew Foreman shall conduct a visual assessment, consistent with ANSI A300. Hazard Trees pose a safety and reliability risk and must be removed (or pruned to the extent that the tree is no longer a Hazard Tree). BCPP reserves the right to deny chipping of any dead wood and will leave the dead wood on property for customer to clear. Federal and state agencies sometimes request that trees subject to removal be topped to create “wildlife trees.” BCPP may honor such requests, provided the safety of the tree workers or the integrity of facilities are not compromised. Any Hazard Trees removed to accommodate this request should be reduced to a height so that the tree would never contact any BCPP Facilities should it fall.

##### 17.07.2 Discretionary Tree Removal

Discretionary tree removal reduces the total tree inventory and can, therefore, reduce long-term risks to safety and reliability; improve access to facilities, clear lines of sight, and moderate future workloads. In general, removal of trees near power lines are encouraged and are to be pursued by the Tree Crew Foreman.



## 17.08 Debris Disposal

Before leaving a particular worksite, all debris must be brought to ground, with no severed limbs left in the tree canopy (hangers). Work locations shall be left in a safe and orderly condition at the end of the workday. “Debris” is cut vegetation remaining after maintenance operations.

Debris is typically disposed of in multiple ways. First, debris may be chipped using a mechanical chipper and then transported off-site. Second, debris may be chipped using a mechanical chipper and then broadcast on-site. Third, debris may be lopped into maximum lengths of 3 feet and scattered (if necessary to pile debris, piles shall be no more than 18 inches high). The appropriate method of disposal depends on the area where vegetation maintenance is being performed. Additional debris management requirements may be identified by land managing agencies.

### 17.08.1 Inaccessible Areas

In remote off-road areas without reasonable vehicle access, debris can be disposed of on-site. Use the lop and scatter method mentioned above.

## 17.09 Directional Pruning

Directional pruning is a natural target pruning applied to redirect tree growth away from utility lines (Gilman 2012). ANSI A300 and ISA’s best management practices (Kempton 2004) instruct that pruning to clear the utility space involves thinning cuts: removing at natural targets entire branches that are growing toward (or once cut will produce sprouts that will grow toward) the power lines.

While heading cuts produce sprouts that grow quickly back into the power lines, branch removal and reduction promote growth away from conductors. Because one objective of utility pruning is to train trees away from power lines wherever practical, branches growing away from the electric facility should not be pruned. Instead, these stems should be allowed to develop to their natural height or length, provide that growth does not create unreasonable safety risks. This cannot be accomplished with strongly excurrent trees trapped directly beneath conductors.

Topping, round-overs, flush cuts, branch tipping, and rip cuts are improper as they result in damage to the trees. Directional pruning is consistent with natural tree structure. Remaining branches retain their taper, strong attachments, growth regulators, and spacing. They continue to grow and function normally, allowing the tree to reach its natural height.

“V” shapes often result in properly pruned trees growing under power lines, particularly on decurrent, deciduous trees (Gilman 2012; Kempton 2004;

Miller 1998; Shigo 1990). Limbs growing upward and toward the facility should be cut back to the trunk or to limbs growing away from the conductors. Remaining branches should have sufficient clearance, so they do not damage the conductors in inclement weather common for the locality (high wind, freezing rain, snow, or other conditions). Excurrent trees (such as main conifers) are more problematic but should be reduced to appropriate laterals or whorls. “L” or one-sided shapes often result in properly pruned trees to the side of conductors (Shigo 1990; Gilman 2012). Limbs on the wire side of trees located adjacent to facilities should be cut back to the trunk; or to limbs growing vertically, sideways or downward; depending on the distance to the line or available natural target.

#### 17.10 Tree Houses

Tree houses built in trees growing near power lines present electric safety risks. Children or others may contact the line, either directly or indirectly, if a tree house is built too close to conductors. Indirect contact may occur through any conductive object, including a tree or tree parts that are contacting power lines. Minimum tree house distances are set at twice the “Minimum approach distances to energized conductors for arborists not qualified by training and experience to work within 10 feet of electrical conductors” as established in Table 1 of ANSI Z133.

#### 17.11 Distribution Cycle Maintenance

Trees and vegetation are pruned from distribution facilities on scheduled cycles. Facilities are worked systematically, either by circuit or grid. The duration of a cycle is dependent on local conditions, as determined by BCPP. BCPP typically schedules distribution cycle maintenance work on a three-year cycle for most circuits in BCPP service territories.

Refer to Sheet V-1.

In performing distribution cycle maintenance, the Tree Crew Foreman is required to:

- Systematically prune and remove trees and other vegetation at a specified distance from all primary conductors and non-primary conductors, consistent with this section,

- Comply with all other specifications generally applicable to all vegetation maintenance under these SOPs, including without limitation

- Identify and remove (or remediate) Hazard Trees and discretionary tree removals.

- Identify and correct readily climbable trees that are too close to power lines.

Identify and remedy or remove tree houses violating the criteria.

Remove all brush, which include volunteer trees (naturally seeded, non-landscaped trees) and woody plants (including vines).

17.11.1 Distribution Cycle Maintenance - Clearance Distances – Primary (Refer to sheets V-1 and V-2)

Each work cycle, trees and other vegetation are pruned or removed to achieve clearance distances to comply with the NESC, state regulation clearance requirements, and BCPP guidelines.

Specified vegetation clearance distances from primary conductors in the distribution system should allow sufficient space to prevent contact with primary conductors or regulatory mandated clearance distances throughout the cycle.

The Tree Crew Foreman is responsible for identifying all vegetation that would encroach upon conductors, BCPP required distances, or regulatory mandated minimum clearance distances throughout the cycle.

Neutral conductors in a raised position, which includes above or on a crossarm, are treated as primary-conductors for purposes of this section. Low neutral position is treated as a hot conductor.

17.11.2 Distribution Cycle Maintenance – Clearance Distances – Non-Primary

17.11.2.1 A secondary line is a line typically energized to less than 750 volts. Specified distances from secondary conductors in the distribution system are designed to prevent strain (severe deflection) or abrasion. The “Work Threshold,” which is the point at which action must be taken) and Post Work Clearance distances for non-primary are set forth as follows:

Table 17.11.2. A non-primary wire vegetation clearance distances.

Line Type	Work Threshold	Minimum Post-Work Clearance
Non-insulated wire pole-to-pole secondary	N/A	3 feet
Neutral low position	Contact	2 feet
Insulated pole-to-pole secondary	Deflection or abrasion	2 feet
Non-insulated secondary service line/streetlight	N/A	1 foot
Insulated secondary service/streetlight	Deflection or abrasion	1 foot
Guy wire	2-inch or greater diameter limb applying pressure	Relieve pressure

These practices can be changed at any time at the discretion of the BCPP Director.

In addition to the specification clearances (Table 17.11.2.A), the following requirements also apply to distribution cycle maintenance work on distribution non-primary.

**17.11.2.2 Tree Limbs Between Conductors.** Any tree limbs between a primary conductor and any secondary conductor, regardless of type, shall be removed or pruned to Post-Work Clearances for primary.

**17.11.2.3 Customer Work.** If a customer expresses a desire to remove other limbs or trees around any non-primary, in addition to the work to complete under these specifications, vegetation maintenance workers should inform the customer to call BCPP to arrange for a temporary disconnection of the facilities to allow safe completion of the desired tree work, as required by law.

## 17.11.3 Distribution Cycle Maintenance – Other Facility Clearances

In addition to pruning trees to maintain clearances, certain vegetation maintenance is required on utility poles (and supporting guy wires) as part of distribution cycle maintenance work. One-third of the circumference around poles shall be cleared of vegetation to 5 feet from the pole to allow lineman a climbing path. The remaining two-thirds of the pole circumference should be cleared of all vegetation 1 foot from the pole.

Vines growing on poles and guy wires shall be:

Cut at ground level

Treated with an approved herbicide

Removed from the bottom 5 feet of the pole or guy wire

Reported as brush or tree removed

Vines clearly part of a landscape and rooted well away from the pole may be:

Pruned to provide sufficient climbing path and 5 feet of separation (e.g., 5 feet of separation between the top of a fence and facility)

Reported as brush pruned (not to exceed 100 brush ft. pruned)

Where vines remain on facilities after work is completed, the Tree Crew Foreman will document the exception and report it to BCPP Director to clear the remainder of the pole.

## 17.12 Transmission procedures

Transmission facilities are overhead lines energized at a higher voltage. Typical transmission voltages on BCPP's system are 46kV and 138kV. Facility voltage and type determine the amount of transmission clearance needed. Vegetation maintenance performed on transmission lines shall comply with ANSI A300. In addition, vegetation maintenance performed on transmission lines shall conform with the NERC Reliability Standard FAC-003-5. Consistent with requirement R4 of NERC Standard FAC-003-5 and the procedures set forth in BCPP transmission grid operations. BCPP line patrolmen are responsible to complete inspections on certain transmission lines. When doing their inspections, line patrolmen will identify any vegetation that poses a threat of causing a transmission outage. In addition, BCPP vegetation management department completes vegetation inspections of the Right of Way for transmission lines. BCPP vegetation management completes an annual vegetation inspection on main grid transmission lines. All other transmission lines are inspected at least once



every year. Vegetation maintenance on transmission lines is then scheduled according to the results of those inspections.

#### 17.12.1 Transmission Clearances

The objective of systematic transmission work is to safeguard the reliability of BCPP transmission system by preventing outages from contact with vegetation. Clearance work on a transmission line is guided by three concepts: Minimum Vegetation Clearance Distances, Action Thresholds, and Minimum Clearances Following Work.

Minimum Vegetation Clearance Distance (MBVCD) represents radial distances from the conductors inside of which trees shall not encroach.

### 17.13 Chemical Procedures

Herbicides and tree growth regulators (TGR) are an important part of BCPP Vegetation Management Program. Herbicides are chemicals used to manipulate or control undesirable vegetation. When safely used, herbicides are effective and efficient, minimize soil disturbance, and enhance plant and wildlife diversity. Herbicide applications can benefit wildlife by improving forage as well as escape and nesting cover. In some instances, noxious weed control is a desirable objective in utility ROW that can be accomplished through herbicide treatment. Herbicide use can control individual plants that are prone to resprout or sucker after removal. When trees that resprout or sucker are removed without herbicide treatment, dense thickets develop, impeding access, swelling workloads, increasing costs, blocking lines-of-site, and deteriorating wildlife habitat (Yahner and Hutnik 2004). Treating suckering plants allows early successional, compatible species to dominate the ROW and out-compete incompatible species, reducing work. “Tree growth regulators” refers to chemical treatments that slow the growth of some tree species.

Chemical applications shall always be performed according to federal, state, and local regulations and consistent with all labeling requirements.

#### 17.13.1 Notification to Property Owners

Before chemical use on a property, Tree Crew Foreman shall give notice to the property owner(s). Notice shall be provided at least five days before work but no more than six weeks in advance, whenever chemicals are to be used on their property.

#### 17.13.2 Licensed Applicators

Crew members in Brigham City service territory shall hold a valid Commercial pesticide applicator License. The Tree Crew

Foreman performing work is always responsible to ensure that any application of chemicals is performed by an applicator with a valid applicator's license, as required by state law where the property is located.

17.13.3 Closed Chain of Custody

The Tree Crew Foreman making the application is responsible for chemical purchase, storage, and container disposal. Closed chain of custody is required, including the use of returnable, reusable supply containers.

17.13.4 Chemical Reporting

All chemical applications shall be documented as required by law for a licensed applicator. In addition, chemical applications shall be documented as instructed by BCPP. The Tree Crew Foreman making the application shall be responsible for maintaining reports and shall produce reports for review by the state departments of agriculture upon request.

17.13.5 Herbicide Application Efficiency

Ninety-five percent control shall be assumed on all herbicide applications to be considered effective.

17.13.6 Wetland and Waterbodies

Product label shall be followed and approved for use near wetlands and waterbodies.

17.13.7 Spills

Applicator is responsible for preventing any chemical spills from occurring. Special attention should be made while mixing, loading, and cleaning equipment, which are activities that carry more risk for accidents or spills. Spills can be avoided by using closed chain of custody best management practices. Spill kits are required on every truck when any herbicide is used or being transported.

In the event of a spill:

1. Stop, contain and isolate the spill
2. Report the spill to the BCPP Director, who will notify the environmental services; the following information must be provided to the TREE CREW FOREMAN:
  - a. Caller and manager
  - b. Name
  - c. Date and time of spill

- d. Location (address or longitude and latitude)
  - e. EPA number (product spilled)
  - f. Cause of spill
  - g. Amount of spill
  - h. Types of surfaces contaminated
  - i. Containment and/or clean-up activities performed so far
- 3. Remediate the spill
  - 4. Cleanup at or near BCPP generating sites or substations must comply with site-specific spill prevention and remediation plans.

#### 17.14 Approved Herbicides

In all circumstances, the licensed applicator is responsible for following label requirements. In addition, specific chemical products must be approved by the BCPP Director, based on pre-approved chemical products. Any approved chemical products must be based on one or a combination of the following active ingredients:

##### Stump Application

2, 4-D  
Glyphosate  
Picloram  
Triclopyr

##### Low Volume Basal Application

Imazapyr  
Triclopyr

##### Foliar Application

2, 4-D  
Aminopyralid  
Fosamine ammonium  
Glyphosate  
Imazapyr  
Metasulfuron methyl  
Picloram  
Sulfometuron methyl  
Triclopyr

##### Soil Application

Diuron  
Indaziflam  
Imazapyr  
Picloram  
Sulfentrazone  
Tebuthiuron

##### Tree Growth Regulators (TGR)

Fluprimsidol  
Paclobutrazol

#### 17.14.1 Substations Herbicide Treatment

Substations will be sprayed and treated multiple times throughout the year.

# BRIGHAM CITY PUBLIC POWER DEPARTMENT ELECTRICAL CONSTRUCTION STANDARD DRAWINGS

Index of Drawings (32 Sheets)

SUBMITTED & RECOMMENDED

ELECTRICAL CONSTRUCTION STANDARDS

- E1.....ELECTRIC FRONT PAGE-INFORMATION
  - E2.....RESIDENTIAL UNDERGROUND SERVICE 200 AMPS OR LESS
  - E3.....RESIDENTIAL OVERHEAD SERVICE 200 AMPS OR LESS
  - E4.....ELECTRIC CONDUIT TRENCH DETAIL
  - E5.....SECONDARY JUNCTION PEDESTAL
  - E6.....SINGLE PHASE PAD MOUNT TRANSFORMER
  - E7.....200-AMP 1-PHASE SECTIONALIZER
  - E8.....200-AMP 1 AND 3-PHASE FIBERGLASS SECTIONALIZER
  - E9.....600-AMP 3-PHASE FIBERGLASS SECTIONALIZER
  - E10.....ELECTRICAL BOX BACKFILL & COMPACTION
  - E11.....CONDUIT ROUTING
  - E12.....5-PHASE TRANSFORMER & CONCRETE PAD
  - E13.....600 AMP PSE 9/11 SWITCHGEAR
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  - E15.....SECONDARY PEDESTAL, WIRE & CONNECTIONS
  - E16.....DECORATIVE STREET LIGHT POLE FOOTING DETAIL
  - E17.....STREET LIGHT POLES AND FIXTURES
  - E18.....TEMPORARY SERVICE FOR OVERHEAD & UNDERGROUND LINES
  - E19.....3-PHASE UNDERGROUND SERVICE 201-800 AMPS
  - E20.....TYPICAL RISER POLE
  - E21.....OVERHEAD POWER LINE CLEARANCES OVER 600 VOLTS TO 22,000 VOLTS
  - E22.....1-PHASE FREE STANDING METER BASE & 3-PHASE FREE STANDING METER BASE
  - E23.....PHOTOVOLTAIC SINGLE-PHASE SYSTEM DIAGRAM CENTRAL INVERTER (RESIDENTIAL)
  - E24.....PHOTOVOLTAIC SINGLE-PHASE SYSTEM DIAGRAM MICRO INVERTER (RESIDENTIAL)
  - E25.....PHOTOVOLTAIC SINGLE-PHASE SYSTEM DIAGRAM ENERGY STORAGE - CENTRAL INVERTER (RESIDENTIAL)
  - E26.....PHOTOVOLTAIC SINGLE-PHASE SYSTEM DIAGRAM ENERGY STORAGE - MICRO INVERTER (RESIDENTIAL)
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  - E29.....PV DISCONNECT LABELS & PV SERVICE PANEL WARNING LABELS
  - E30.....EUSERC DWG NO. 501 - AC DISCONNECT GUIDELINES
- ELECTRICAL - VEGETATION MANAGEMENT STANDARDS
- V1.....TREE AND VEGETATION TRIMMING AND CLEARING DETAILS
  - V2.....TREE PLANTING AND ELECTRICAL BOX CLEARANCE DETAILS



APPROVAL

ENGINEER	DATE
TOM COOPER PUBLIC POWER DIRECTOR	
PUBLIC POWER SUPERINTENDENT	DATE
TROY DAHLGREN PUBLIC POWER SUPERINTENDENT	
PUBLIC POWER SUPERINTENDENT	DATE
CASEY SMITH PUBLIC POWER SUPERINTENDENT	
KRISTINA RASMUSSEN ATTTEST, CITY RECORDER	DATE

SPECIAL STANDARD NOTES:

- A. AT THE BRIGHAM CITY PUBLIC POWER'S SOLE DISCRETION, ALTERNATE METHODS OF CONSTRUCTION OR DEVIATIONS FROM THESE STANDARDS MAY BE REQUIRED OR APPROVED BY THE CITY PUBLIC POWER DIRECTOR AND PUBLIC POWER SUPERINTENDENT (OR THEIR DESIGNEE), WHEN SUCH ARE NECESSARY TO MEET THE BEST INTERESTS OF THE CITY.
- B. WHEN BRIGHAM CITY PUBLIC POWER APPROVAL IS REQUIRED, IT SHALL MEAN APPROVAL FROM THE CITY PUBLIC POWER DIRECTOR, PUBLIC POWER SUPERINTENDENT, CITY ENGINEER, OR THEIR DESIGNEE.
- C. ANY VARIANCE, DEVIATION, OR WAIVER TO THE CITY ELECTRICAL STANDARDS SHALL BE AS APPROVED BY THE PUBLIC POWER DIRECTOR OR SUPERINTENDENT.

FEBRUARY 2026

## GENERAL INFORMATION

## Purpose

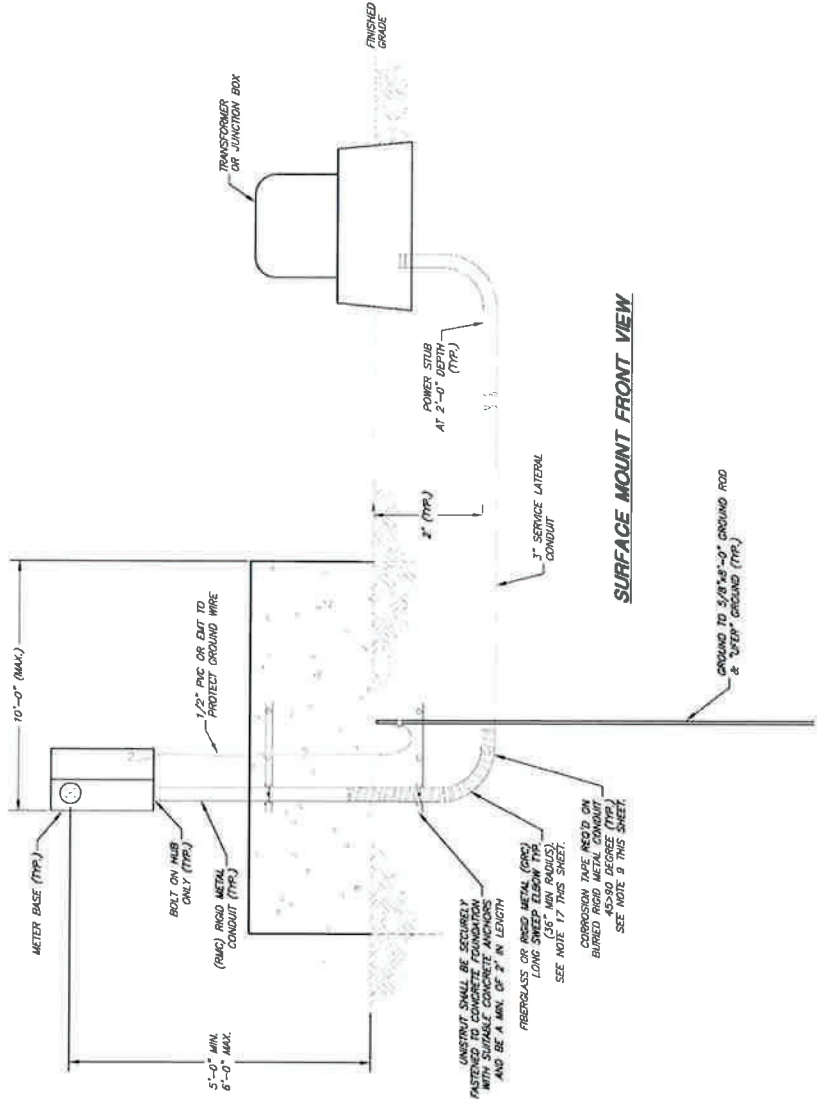
THE PURPOSE OF THE ELECTRICAL CONSTRUCTION DRAWINGS IS TO AID CUSTOMERS, CONTRACTORS, DEVELOPERS, AND ENGINEERS, IN CONSTRUCTION AND INSTALLATION OF ELECTRICAL SYSTEMS AND SERVICES TO NEW AND REMODELED STRUCTURES, AND NEW RESIDENTIAL, COMMERCIAL AND INDUSTRIAL DEVELOPMENTS. IT IS THE INTENT AND DESIRE, WITH THE AID OF THE CONSTRUCTION STANDARDS AND DRAWINGS, OF BROMHAY CITY PUBLIC POWER TO PROVIDE SAFE, EFFICIENT, AND RELIABLE ELECTRICAL SERVICE TO ALL CUSTOMERS.

## GENERAL GUIDELINES AND RULES

1. CURB & GUTTER SHALL BE INSTALLED ON ANY PROJECT BEFORE THE MAIN ELECTRICAL TRENCH IS DOWNGRADED. THE CURB SHALL HAVE PROPERTY CORNERS MARKED AND PINNED IN THE CURB BY APPROVED METHODS. THE CURB WILL GIVE REFERENCE TO THE ELECTRICAL CONDUIT DEPTHS, ELECTRICAL BOX PLACEMENT AND OTHER LOCATIONS NECESSARY FOR ELECTRICAL REINSTALLATION.
2. IF THE ELECTRICAL INSTALLATION, APPLICATIONS, OR OTHER MATTERS ARE NOT COVERED IN THIS BOOK, THEN IN GENERAL THE INSTALLATION, APPLICATION, OR MATTER IS NOT APPROVED.
3. ALL ELECTRICAL CONSTRUCTION, AND INSTALLATION SHALL CONFORM TO APPLICABLE PROVISIONS OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NESC), OSHA, STATE, COUNTY, AND CITY ORDINANCES, STANDARDS, AND CODES.
4. ANY AND ALL WORK IN THE VICINITY OF OVERHEAD POWER LINES SHALL NOT BE ALLOWED UNLESS THE OWNER AND ALL PERSONS INVOLVED IN THE PROJECT ARE AWARE OF THE POTENTIAL DANGERS OF THE INTERFERED WORK OR ACTIVITY. NO PERSON OR THING SHALL BE PERMITTED TO WITHIN THE VICINITY OF THE PUBLIC POWER AND POWER DEPARTMENT PERSONNEL. THE PROPER STEPS ARE TAKEN TO INSURE THE SAFETY OF THE PUBLIC, AND POWER DEPARTMENT PERSONNEL. THE POWER DEPARTMENT RECOMMENDS A MINIMUM OF 3 BUSINESS DAYS NOTICE BE GIVEN BEFORE ANY WORK NEAR ITS OVERHEAD POWER LINES IS SCHEDULED TO BEGIN.
5. THE NATIONAL ELECTRICAL SAFETY CODE, CITY PUBLIC POWER CODE REQUIRES THAT HOMES, BUILDINGS, SIONS, BRIDGES, ANTENNAS ETC. HAVE SUFFICIENT HORIZONTAL AND VERTICAL CLEARANCES TO OVERHEAD POWER LINES. COME IN CONTACT WITH THE POWER DEPARTMENT FOR APPLICABLE DISTANCES AND CLEARANCES.
6. CALL BLUE STAKES BEFORE YOU DIG! UTAH LAW SECTION 54-4a-1 THROUGH 54-4a-11 REQUIRES THE BLUE STAKES BE PLACED AT LEAST 24 HOURS BEFORE ANY EXCAVATION. AT LEAST TWO BUSINESS DAYS PRIOR TO EXCAVATION, THE EXCAVATION SHALL NOT BE STARTED UNTIL LOCATING THE BLUE MARK.
7. IN GENERAL, JOINT TRENCHING OF POWER AND COMMUNICATIONS IS ALLOWED AS LONG AS THE INSTALLATION CONFORMS TO THE CONSTRUCTION STANDARDS.
8. ALL ELECTRICAL CONDUITS SHALL BE INSTALLED A MINIMUM OF 4 FEET TO TOP OF CONDUIT FROM FINISHED GRADE. CONDUIT DEPTHS MAY BE REQUIRED TO EXCEED 4 FEET IN SOME AREAS. HIGH VOLTAGE PRIMARY (12-49K) CABLES ARE INSTALLED IN A JOINT POSITION WITHIN THE TRENCH. CONDUITS SHALL BE INSTALLED 1 FOOT IN DEPTH FOR EVERY 1/2 INCH IN CONDUIT SIZE. PRIMARY (12-49K) CONDUITS SHALL BE INSTALLED 1 FOOT IN DEPTH FOR EVERY 1/2 INCH IN CONDUIT SIZE. (EXAMPLE 6 inch conduit shall be 6 feet in depth), BUT IN NO CASE SHALL PRIMARY CONDUITS BE INSTALLED LESS THAN THE MINIMUM OF 4 FEET IN DEPTH, UNLESS APPROVED BY THE POWER DEPARTMENT.
9. THE ELECTRICAL DISTRIBUTION SYSTEM FOR ALL NEW CONSTRUCTION OF RESIDENTIAL, COMMERCIAL, INDUSTRIAL, DEVELOPMENTS SHALL BE INSTALLED UNDERGROUND UNLESS OTHERWISE APPROVED BY THE BIGHAM CITY PUBLIC POWER DEPARTMENT. THE ELECTRICAL DISTRIBUTION SYSTEM FOR EXISTING DEVELOPMENTS AND OTHER CHARGES THAT EFFECT THE ELECTRICAL SYSTEM MAY REQUIRE THAT THE ELECTRICAL SYSTEM BE INSTALLED UNDERGROUND. ANY AND/OR BE BROUGHT UP TO CURRENT NEC, NESC, AND CITY PUBLIC POWER STANDARDS, ADDITIONAL REQUIREMENTS MAY APPLY.
10. THE DEVELOPER IS TO PROVIDE THE TRENCH FOR ALL REQUIRED CONDUIT SYSTEMS AND FOLLOWING THE INSTALLATION OF THE CONDUITS BY THE DEVELOPER, PROVIDE SAND AND BACKFILL TO MEET THE CONSTRUCTION STANDARDS. ALL TRENCHES SHALL BE COMPACTED TO 95% AND PASS THE COMPACTION TEST BEFORE THE TRENCH IS COVERED. THE TRENCH SHALL BE COVERED WITHIN 10 BUSINESS DAYS OF THE COMPLETION OF THE TRENCH. FINAL GRADE HAS BEEN ESTABLISHED. THE CURB & GUTTER SHALL BE INSTALLED BEFORE THE ELECTRICAL TRENCH IS STRIPPED.
11. PRIOR TO BACKFILLING ANY CONDUITS, THE DEVELOPER SHALL SCHEDULE AND REQUEST AN INSPECTION FROM THE BIGHAM CITY PUBLIC POWER DEPARTMENT FOLLOWING THE INSPECTION THE POWER DEPARTMENT WILL ISSUE A "PASSED" OR "FAILED" SLIP TO PROCEED BACKFILLING OR NOT TO PROCEED.
12. STATE SPECIFIED ROAD BASE SHALL BE USED UNDER ALL ELECTRICAL BOXES, ENCLOSURES, PADS OR VALVES. THE ROAD BASE SHALL BE COMPACTED TO 95% MINIMUM AND PASS A COMPACTION TEST BEFORE ANY BOXES, ENCLOSURES, PADS OR VALVES ARE SET. THE ROAD BASE SHALL BE A MINIMUM OF 1 FOOT IN DEPTH AND EXTEND A MINIMUM OF 10 FEET PAST ALL SIDES OF THE BOXES, ENCLOSURES, PADS OR VALVES. ADDITIONAL REQUIREMENTS MAY APPLY.
13. IN GENERAL, ALL ELECTRICAL BOXES SHALL BE PLACED A MINIMUM OF 18 INCHES FROM A PROPERTY LINE AND SET BACK 6 INCHES TO 1 FOOT BEHIND SIDEWALKS.

[illegible]



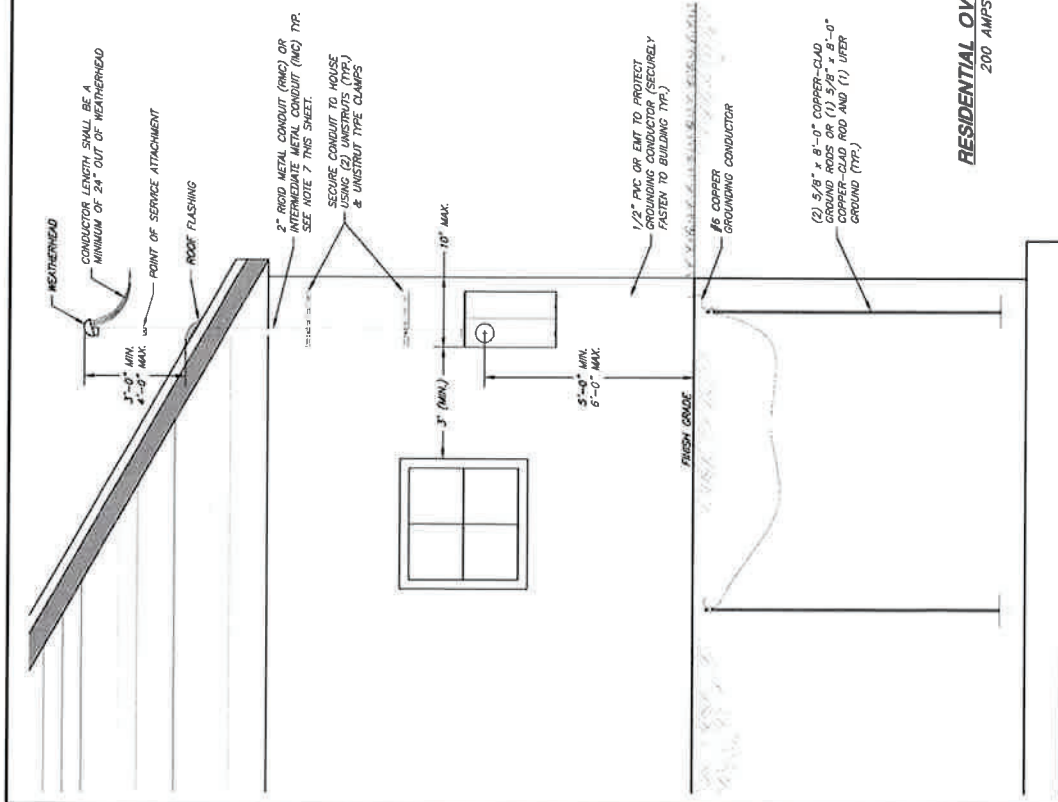


- NOTES:
1. ALL MATERIALS TO BE SUPPLIED BY CUSTOMER EXCEPT METER.
  2. ALL TEMPORARY/PERMANENT EQUIPMENT SHALL COMPLY WITH CURRENT N.E.C., N.E.S.C. AND CITY PUBLIC POWER STANDARDS.
  3. BRIGHAM CITY PUBLIC POWER WILL FURNISH AND INSTALL METER AND CONNECT SERVICE IN TRANSFORMER OR JUNCTION BOX.
  4. SERVICE CONDUIT SHALL MEET CURRENT NATIONAL ELECTRIC CODE AND BRIGHAM CITY PUBLIC POWER REQUIREMENTS.
  5. CORROSION INHIBITING COMPOUND SHALL BE USED ON ALL ELECTRICAL WIRE CONNECTIONS INSIDE METER BASE.
  6. GROUND ROD TO BE DRIVEN A MINIMUM OF 6'-0\"/>
  7. UNSTRUT TO BE OF ONE PIECE AND OF 2'-0\"/>
  8. ENOUGH WIRE SHALL BE PROVIDED TO EXTEND A MINIMUM OF 4' PAST THE TRANSFORMER OR SECONDARY PEDESTAL GROUND SLEEVE.
  9. ALL RIGID METAL CONDUIT INSTALLED BELOW GRADE SHALL BE WRAPPED WITH 10-MIL CORROSION-RESISTANT TAPE. TAPE SHALL EXTEND 8\"/>
  10. ALL POWER SERVICE LATERAL CONDUITS SHALL BE 3\"/>
  11. METER BASE SHALL BE LOCATED WITHIN THE FRONT 10'-0\"/>
  12. METER SOCKET SHALL BE PLACED A MINIMUM OF 5'-0\"/>
  13. CONTACT BRIGHAM CITY PUBLIC POWER TO SCHEDULE APPOINTMENT FOR ASSISTANCE IN PULLING IN WIRE INTO ENERGIZED TRANSFORMERS.
  14. MAIN DISCONNECT BREAKER TO BE INSTALLED AT TIME OF INSPECTION.
  15. IN GENERAL ONLY CONTINUOUS LENGTHS OF CONDUIT SHALL BE USED. NO JOINTS OR COUPLERS ARE PERMITTED IN SERVICE CONDUITS UNLESS OTHERWISE APPROVED.
  16. ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED PRIOR TO FINAL POWER INSPECTION.
  17. FIBERGLASS OR GALVANIZED RIGID STEEL CONDUIT (RSC) SHALL BE USED FOR BONDS 45 DEGREES AND GREATER ON ALL CONDUITS EXTENDING OUT OF THE GROUND OUTSIDE OF AN ENCLOSURE.

**SURFACE MOUNT FRONT VIEW**

BRIGHAM CITY PUBLIC POWER		E2		E2	
ELECTRICAL CONSTRUCTION STANDARDS					
RESIDENTIAL UNDERGROUND SERVICE 200 AMPS OR LESS					
Brigham City Public Power		1400 Oak Street, Suite 100 Brigham City, UT 84302		Tel: (435) 734-4000 Fax: (435) 734-4000 www.bcpower.gov	
Brigham City Corporation		1400 Oak Street, Suite 100 Brigham City, UT 84302		Tel: (435) 734-4000 Fax: (435) 734-4000 www.bcpower.gov	
Brigham City Public Power		1400 Oak Street, Suite 100 Brigham City, UT 84302		Tel: (435) 734-4000 Fax: (435) 734-4000 www.bcpower.gov	
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Brigham City					





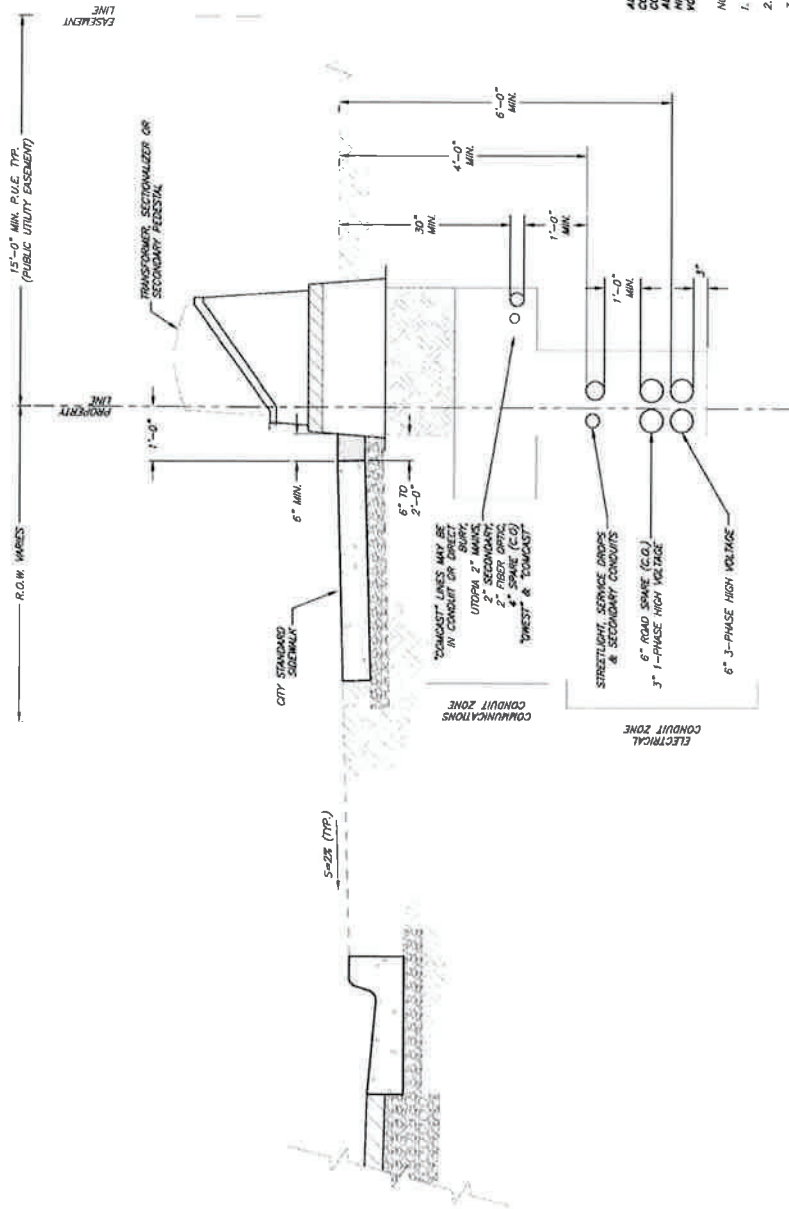
SERVICE OR FEEDER RATING (AMPERES)	NEC WIRE SIZE		CONDUIT SIZE
	COPPER	ALUMINUM OR COPPER-CLAD ALUMINUM	
100 AMP	4	2	2"
110 AMP	3	1	2"
125 AMP	2	1/0	2"
150 AMP	1	2/0	2"
175 AMP	1/0	3/0	2"
200 AMP	2/0	4/0	2"
201 AMPS-400 AMPS	SEE PUBLIC POWER DIVISION		--

NOTES:

1. ALL METER BASE SERVICE LOCATIONS MUST FIRST BE APPROVED BY THE PUBLIC POWER DEPARTMENT.
2. IN GENERAL, ALL METER BASES SHALL BE LOCATED ON THE FRONT 10'-0" OF THE SIDE OF THE HOUSE.
3. METER HEIGHT SHALL BE A MINIMUM OF 5'-0" AND A MAXIMUM OF 6'-0" TO CENTER OF METER SOCKET.
4. METER BASE SHALL BE KEPT A MINIMUM OF 3'-0" FROM DOORS, WINDOWS, STAIRS, GAS METERS, ETC.
5. ALL BONDING AND GROUNDING SHALL MEET CURRENT NEC AND BRIGHAM CITY PUBLIC POWER REQUIREMENTS. FOR EXISTING HOMES (2) GROUND RODS SHALL BE REQUIRED IN ADDITION TO ANY OTHER NEC GROUNDING REQUIREMENTS.
6. ALL SERVICE CONDUCTOR SIZES AND TYPES SHALL MEET CURRENT NEC.
7. IN GENERAL, ONLY CONTINUOUS LENGTHS OF CONDUIT SHALL BE USED. NO JOINTS OR COUPLERS ARE PERMITTED IN SERVICE CONDUITS UNLESS OTHERWISE APPROVED. ALL COUPLERS MUST BE BELOW ROOF LINE.

RESIDENTIAL OVERHEAD SERVICE  
200 AMPS OR LESS

BRIGHAM CITY PUBLIC POWER ELECTRICAL CONSTRUCTION STANDARDS		BRIGHAM CITY CITY	
RESIDENTIAL OVERHEAD SERVICE 200 AMPS OR LESS		E3	
BRIGHAM CITY PUBLIC POWER 1400 East Center Street Provo, UT 84601 (801) 734-6600 www.bppwr.com		BRIGHAM CITY CORPORATION 22 North Center Street Provo, UT 84601 (801) 734-6600 www.bccorp.com	
DATE: 01/09/2025	BY: N.T.S.	REVISION: 10 & CS	DATE: 01/09/2025
DRAWN BY: N.T.S.		CHECKED BY: TC	



**TYPICAL JOINT TRENCH OF HIGH VOLTAGE,  
LOW VOLTAGE, & COMMUNICATIONS CONDUITS**

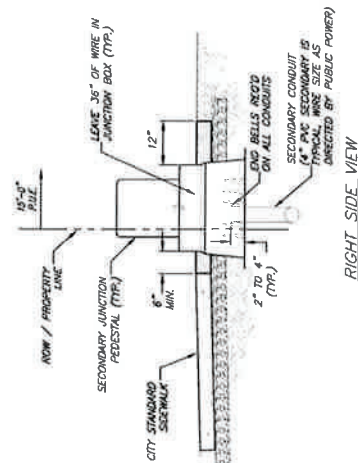
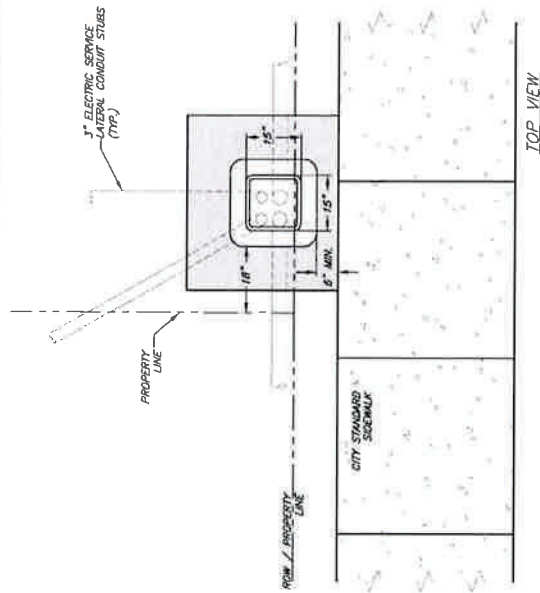
TYPE OF CONDUIT	CONDUIT SIZE	MIN. DEPTH TO TOP OF CONDUIT
STREET LIGHT ELECTRICAL SERVICE	2" SECONDARY	2'-0"
	3" SECONDARY	2'-0"
	1"	2'-0"
SECONDARY	2"-0"	2'-0"
	3"	2'-0"
	4"	2'-0"
	6"	2'-0"
PRIMARY	4"-0"	4'-0"
	6"	4'-0"

ALL POWER CONDUIT SHALL BE BURIED A MINIMUM OF 4" IN DEPTH TO TOP OF CONDUIT. IF HIGH VOLTAGE (12KV) CONDUITS & LOW VOLTAGE (600 VOLT) POWER CONDUITS ARE INSTALLED IN THE SAME TRENCH THE HIGH VOLTAGE POWER SHALL ALWAYS BE INSTALLED BELOW LOW VOLTAGE POWER CONDUITS. IF THERE ARE MULTIPLE HIGH VOLTAGE CONDUITS (3" PHASE, 6" PHASE) IN THE SAME TRENCH, ALL HIGH VOLTAGE CONDUITS MAY BE IN THE DEPTH OF THE LARGEST CONDUIT (6")

## NOTES:

7. HIGH VOLTAGE PRIMARY CONDUITS SHALL ALWAYS BE BELOW SECONDARY CONDUITS.
8. REMAIN SHALL BE CAPPED UNTIL BACKFILLED.
9. BACKFILL SHALL MEET THE REQUIREMENTS OF EARTHWORK AND TRENCHES AND OTHER STANDARDS IN THE CONSTRUCTION AND DEVELOPMENT STANDARDS.
10. ALL CONDUITS SHALL BE INSPECTED AT EACH "J" POINT, AT THE COMPRESSION LEVEL, AND FOR A POLE ASSESSMENT.
11. CATCHER PANS SHALL BE PLACED DIRECTLY ON CONDUIT, AND A CAUTION TAPE SHALL BE PLACED OVER THE PAN.
12. ONLY CONDUCIBLE CONDUIT PANS ARE PERMITTED. FIBROUS JOINTS SHALL NOT BE USED FOR ATTACHING PAN LENGTH CONDUITS TOGETHER UNLESS OTHERWISE APPROVED.

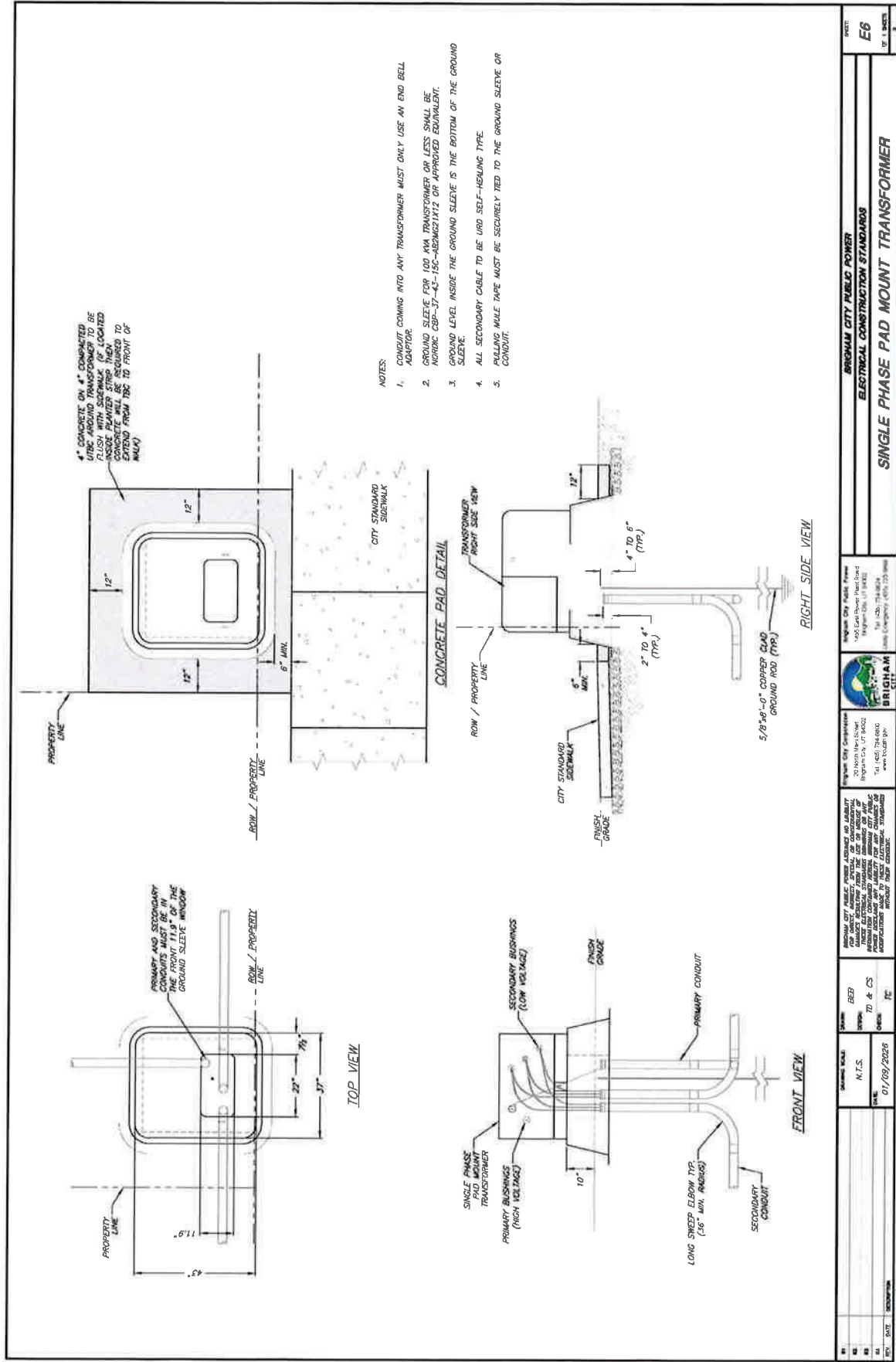
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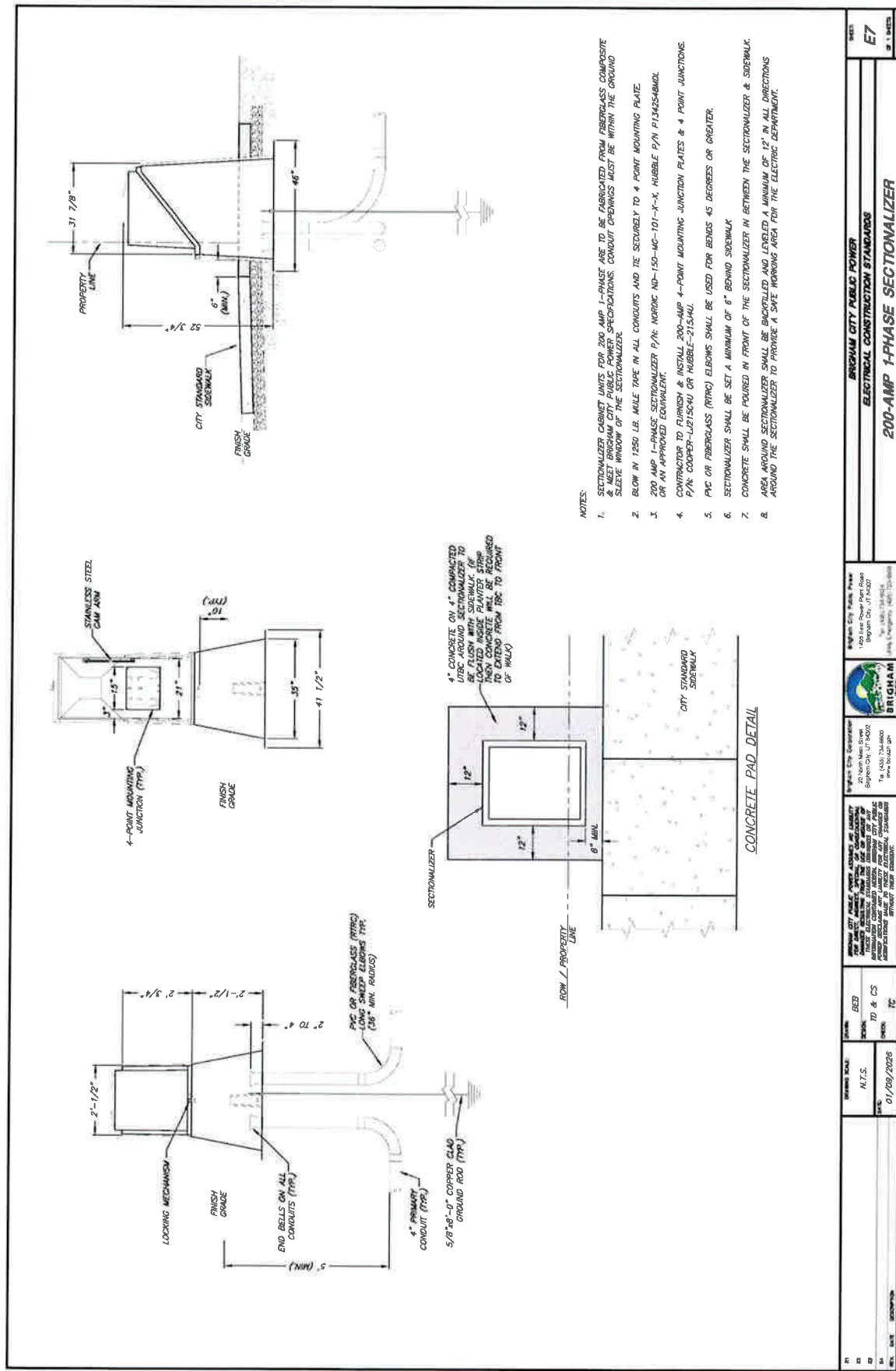


NOTES:

1. CONDUITS EXTERMINATING ANY JUNCTION BOX SHALL HAVE END BELLS TO PROTECT WIRE FROM DAMAGE.
2. SECONDARY WIRE SHALL BE RATED FOR 600 VOLTS AND BE THE UND TYPE. CARE SHALL BE TAKEN IN INSTALLATION AS NOT TO DAMAGE WIRE INSULATION.
3. ALL SECONDARY WIRE SHALL EXTEND A MINIMUM OF 36" & A MAXIMUM OF 48" FROM TOP OF BOX (WITHOUT THE LID).
4. SECONDARY FEEDS SHALL FACE TOWARDS THE STREET AND SHALL BE LEVEL.
5. ROADBASE SHALL BE USED UNDER ALL FEEDS. ROADBASE SHALL BE COMPACTED TO 95% OF DRY DENSITY. COMPACTION TESTS SHALL BE TAKEN PRIOR TO ANY FEEDS BEING SET INTO PLACE.
6. CONDUITS SHALL BE 2" TO 4" HIGHER THAN ROADS GRADE OF FEEDS. (INSIDE GRADE IS THE BOTTOM OF THE FEEDS).
7. LOCKING MECHANISM SHALL BE 10" FROM FINISHED GRADE.
8. USE ONLY APPROVED JUNCTION FEEDS. FENWELL AGCHMDXL-WL & NORDIC PSP-15-15-30-MG OR APPROVED EQUIVALENT.
9. SECONDARY SERVICE LATERAL CONDUITS SHALL BE SEPARATED HORIZONTALLY IN THE TRENCH FROM COMMUNICATIONS CONDUITS.

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13	DATE	12/09/2026	14	DATE	12/09/2026
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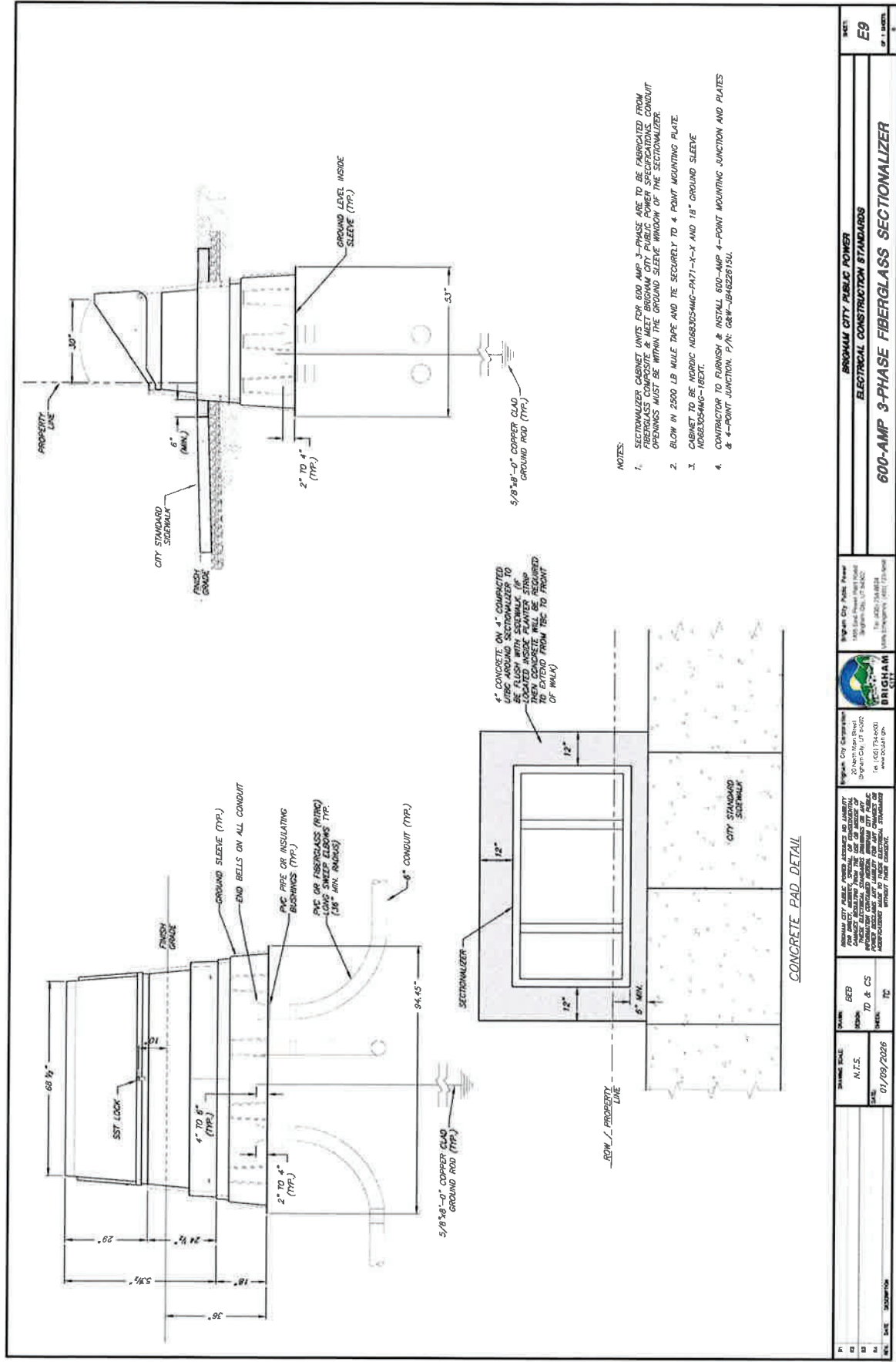




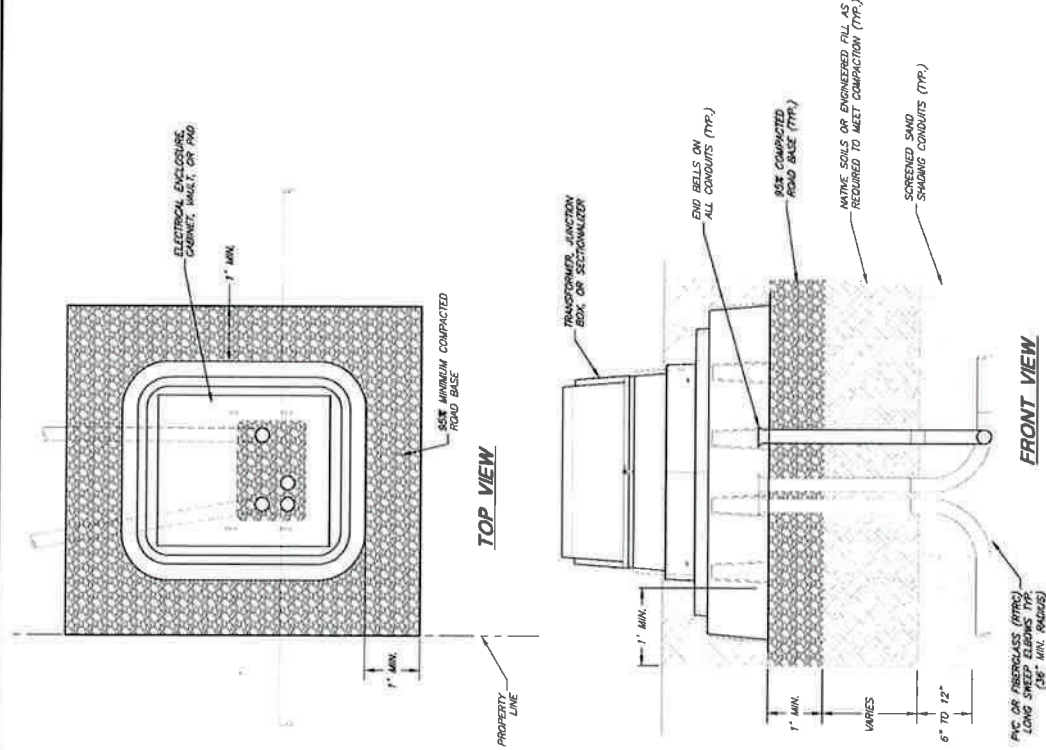






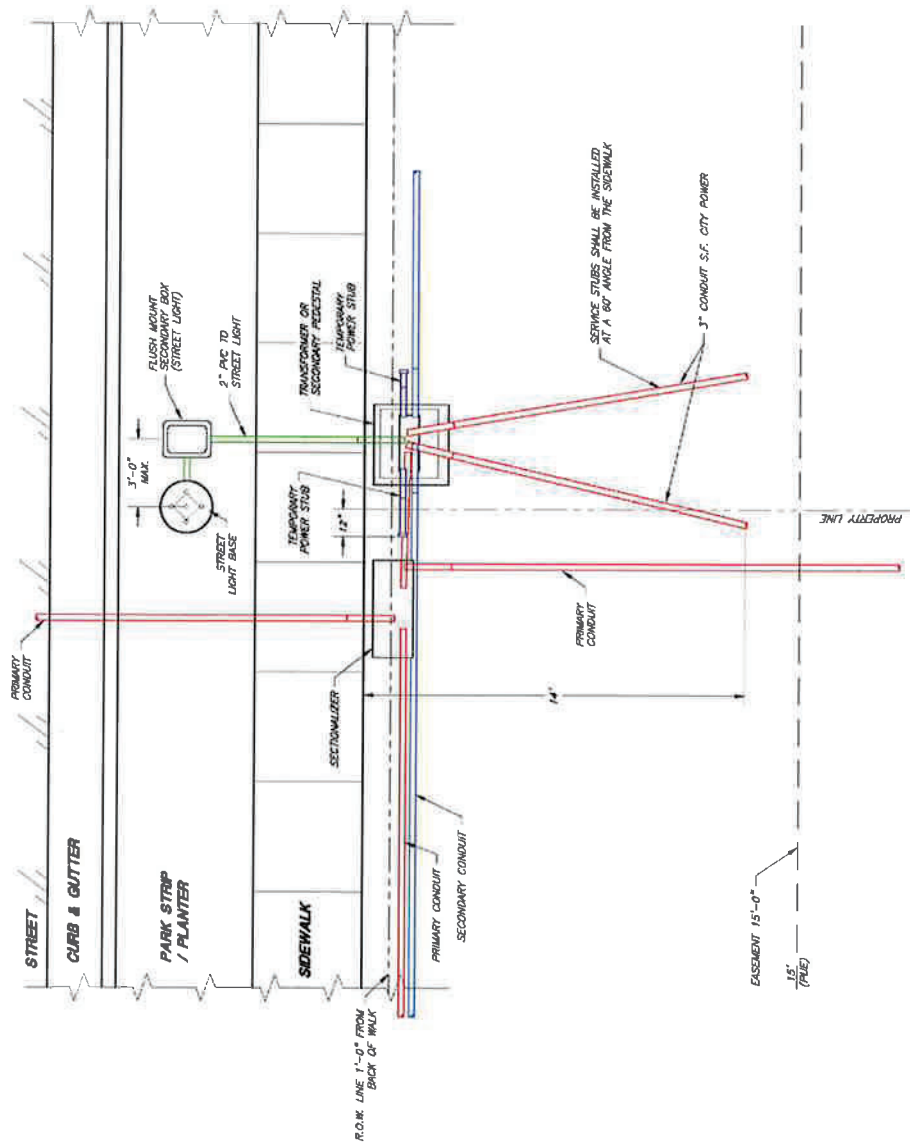


BY	DATE	REVISION	DESCRIPTION
1	01/09/2026	N.T.S.	600-AMP 3-PHASE FIBERGLASS SECTIONALIZER
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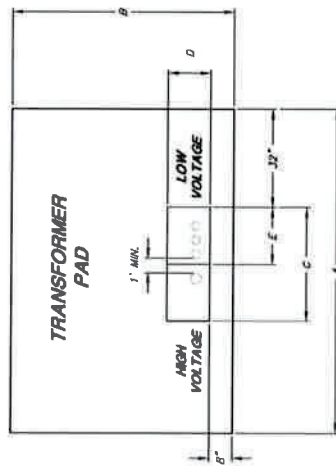
1. ALL ELECTRICAL BOXES INCLUDING, BUT NOT LIMITED TO, SECONDARY, SECONDARY JUNCTION BOXES, TRANSFORMERS, AND TRANSFORMER CONCRETE ENCLOSURES SHALL BE MINIMUM 18" IN DEPTH AND TO A MINIMUM OF 6" UNDER ALL BOXES. FILL SHALL BE A MINIMUM OF 1" IN DEPTH AND SHALL EXTEND A MINIMUM OF 1" PAST ALL SIDES AND BACK AND 1" IN FRONT (IF A SIDEWALK IS PRESENT) ON ALL SIDES OR PAVED.
2. ALL CONDUIT TESTS SHALL BE TAKEN BEFORE ELECTRICAL BOXES ARE SET INTO PLACE.
3. ALL CABLE, ROADSIDE AND ENGINEERED FILL SHALL MEET BIRMINGHAM CITY PUBLIC POWER STANDARDS.
4. REFER TO "EARTHWORK AND TRENCHING" SECTION IN THE CONSTRUCTION STANDARDS FOR ADDITIONAL REQUIREMENTS FOR BACKFILL, BENCHING AND COMPACTION.
5. AREA AROUND ELECTRICAL BOXES SHALL BE BACKFILLED & LOADED TO A MINIMUM OF 12" IN ALL DIRECTIONS TO PROVIDE A SAFE WORKING AREA FOR THE ELECTRIC DEPARTMENT.

DATE		01/10/2026		TIME		08:27		SHEET		1		TOTAL		1		PROJECT		ELECTRICAL CONSTRUCTION STANDARDS		DRAWING		E10		BY		J. HARRIS		CHECKED		T. C.		DATE		01/10/2026		TIME		08:27		SHEET		1		TOTAL		1		PROJECT		ELECTRICAL CONSTRUCTION STANDARDS		DRAWING		E10		BY		J. HARRIS		CHECKED		T. C.		DATE		01/10/2026		TIME		08:27		SHEET		1		TOTAL		1		PROJECT		ELECTRICAL CONSTRUCTION STANDARDS		DRAWING		E10		BY		J. HARRIS		CHECKED		T. C.		DATE		01/10/2026		TIME		08:27		SHEET		1		TOTAL		1		PROJECT		ELECTRICAL CONSTRUCTION STANDARDS		DRAWING		E10		BY		J. HARRIS		CHECKED		T. C.		DATE		01/10/2026		TIME		08:27		SHEET		1		TOTAL		1		PROJECT		ELECTRICAL CONSTRUCTION STANDARDS		DRAWING		E10		BY		J. HARRIS		CHECKED		T. C.		DATE		01/10/2026		TIME		08:27		SHEET		1		TOTAL		1		PROJECT		ELECTRICAL CONSTRUCTION STANDARDS		DRAWING		E10		BY		J. HARRIS		CHECKED		T. C.		DATE		01/10/2026		TIME		08:27		SHEET		1		TOTAL		1		PROJECT		ELECTRICAL CONSTRUCTION STANDARDS		DRAWING		E10		BY		J. HARRIS		CHECKED		T. C.		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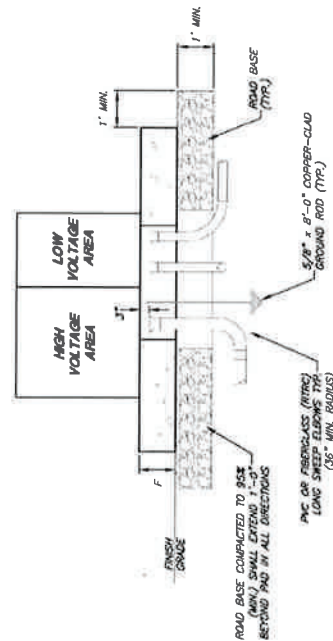


- NOTES:
1. CONTRACTOR TO PERMANENTLY CAP ALL CONDUIT ENDS. ENDS OF CONDUITS TO BE CAPPED WITH A CONDUIT END CAP OR WITH A RAINY ENGINEERS MODEL 600 RED BURIED PIPE MARKER OR APPROVED EQUAL.
  2. COMMUNICATION FIBER/STRIPS SHALL BE INSTALLED BY THE SERVICE PROVIDER (ALL TELECOM FACILITIES)
  3. ALL CONDUIT STRIPS SHALL BE INSTALLED BY DEVELOPER.

[illegible]

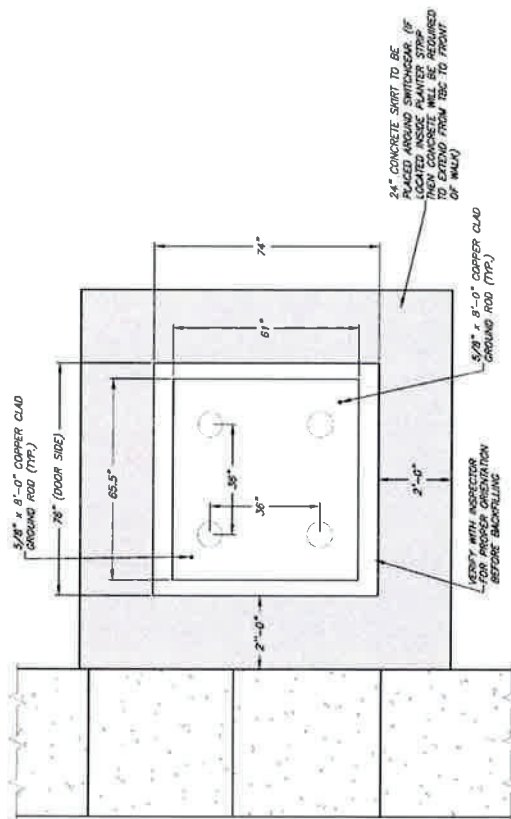
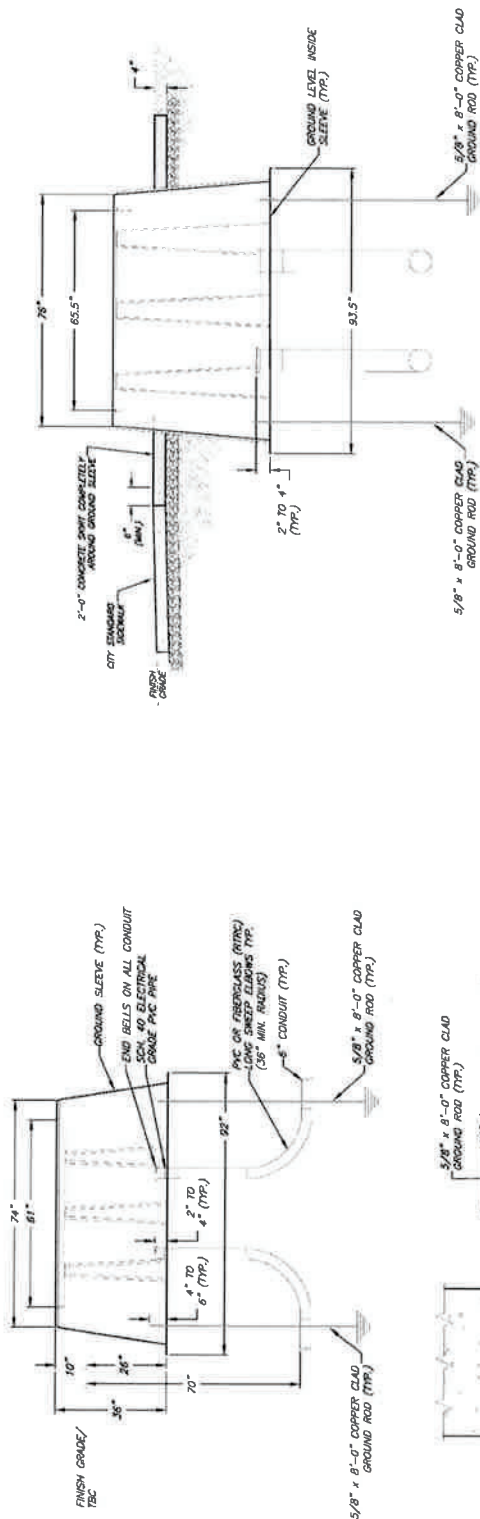


TRANSFORMER PAD DIMENSION CHART						
TRANSFORMER KVA RATING	DIMENSIONS					
	A	B	C	D	E	F
75-500 KVA	114"	78"	36"	15"	18"	9"
750-1500 KVA	118"	105"	52"	16"	20"	11"
2000 KVA	CONTACT POWER DEPT.					



## GENERAL TRANSFORMER CLEARANCES

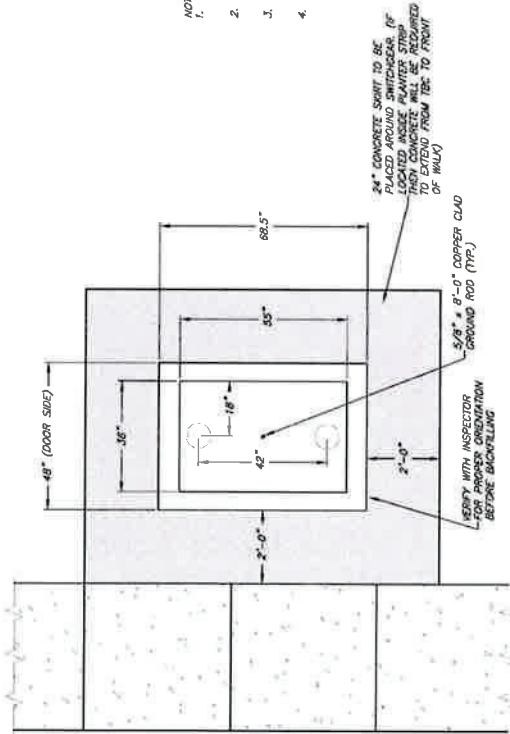
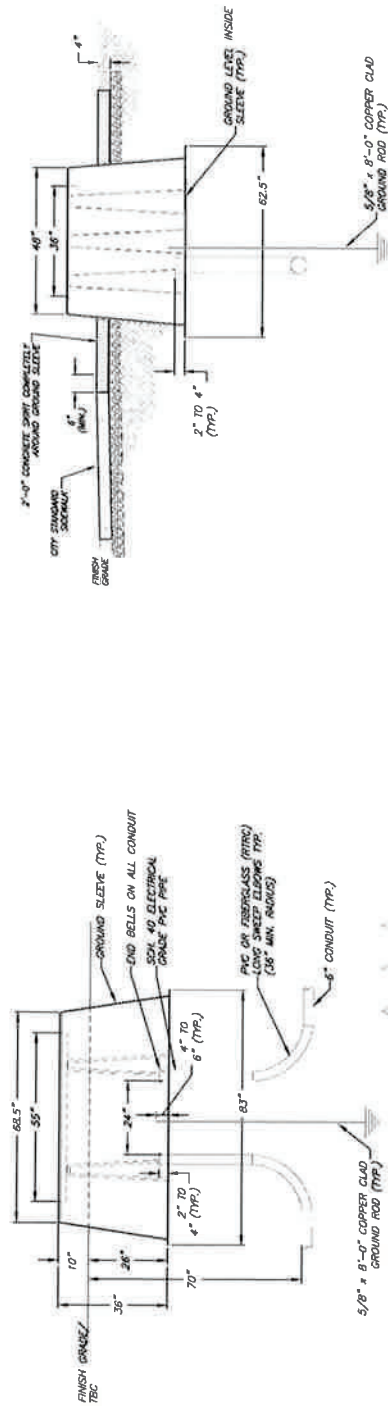
- NOTES:
1. SEE INFORMATION & INSTRUCTIONS AFTER EXCAVATION, ALL EXCAVATED AREA 1' PAST PAD SHALL BE BACK FILLED WITH PAW BASE AND MUST BE COMPACTED TO 95% THE GROUND MUST BE EXCAVATED TO 12" BELOW THE FINISHED GRADE AND 12" BELOW THE FINISHED GRADE. ALL PADS SHALL BE INSPECTED PRIOR TO POURING CONCRETE CONSTRUCTED.
  2. CONCRETE SHALL BE IN ACCORDANCE WITH BRIGHTON CITY PUBLIC POWER STANDARD 4.39.63.10.40. STEEL REINFORCEMENT SHALL BE #4 BARS PLACED AT 12" CENTERS THROUGHOUT THE PAD. THE FINISHED SURFACE MUST BE COMPLETELY FLAT AND LEVEL. CONCRETE SHALL BE TESTED BY A QUALIFIED TESTING AGENCY PRIOR TO POURING CONCRETE. CONCRETE SHALL CONFORM TO CITY STANDARDS.
  3. FABRICATION THE PAD MUST BE CONSTRUCTED ON THE SITE ACCORDING TO THE SPECIFICATIONS.
  4. CONDUIT WINDOW LAYOUT LOW VOLTAGE CONDUITS SHALL BE FORMED AS TIGHTLY AS POSSIBLE AGAINST THE RIGHT SIDE OF THE OPENING AND SHALL IN NO CASE EXTEND FURTHER THAN 30" FROM THE RIGHT SIDE OF THE CONDUIT WINDOW ON THE SMALL PAD OR 30" ON THE LARGE PADS. THERE SHALL BE NO MORE THAN 12 SECONDARY CONDUITS BE USED. DO NOT PUT ANY CONCRETE IN PADS, UNDER THE CONDUIT WINDOW. USE SOIL TO SEPARATE CONDUITS. ALL CONDUITS ENTERING THE PAD MUST BE SCHEDULE 40 PAD WITH PWC OR FIBERGLASS (RING) ELBOWS.
  5. GROUNDING A 5/8" X 81" GROUND ROD MUST BE USED ON THE SMALL PAD AND A 3/4" X 10" ROD ON THE LARGE PADS. THE GROUND ROD SHALL BE INSTALLED ON THE PRIMARY SIDE OF THE TRANSFORMER.
  6. CLEARANCES THE FRONT OF THE PAD SHOULD ALWAYS FACE AWAY FROM ADJACENT STRUCTURES AND BE FREE OF OBSTRUCTIONS. AT LEAST THREE FEET MUST SEPARATE THE EDGES OF THE PAD FROM ANY ADJACENT STRUCTURE. THE EDGES OF THE PAD MUST BE AT LEAST TEN FEET FROM THE EDGES OF THE TRANSFORMER. THE CLEARANCE MUST BE MEASURED FROM THE OUTSIDE OF THE OVERHANG. THE PAD MUST NOT BE PLACED IN AN AREA TEN FEET IN LINE WITH OR THREE FEET TO EITHER SIDE OF ANY WINDOW IN AN ADJACENT STRUCTURE.
  7. CLEARANCE FOR A DOOR THERE MUST BE TWENTY FEET IN LINE WITH IT AND TEN FEET ON EITHER SIDE. PADS MUST NOT BE PLACED WITHIN TWENTY FEET OF ANY WALL OR WITHIN TWENTY FEET OF ANY OTHER OBSTRUCTIONS MUST BE PLACED WITHIN THREE FEET OF THE SIDE OF THE PAD OR WITHIN TWELVE FEET OF THE FRONT OF THE PAD. THE AREA SURROUNDING THE PAD MUST HAVE TWELVE FEET OF CLEAR, LEVEL, WORKING AREA FOR MAINTENANCE OF THE TRANSFORMER. THE TRANSFORMER SHALL BE PLACED WITHIN TWENTY FEET OF THE PAD. ALSO, IT MUST NOT BE PLACED WITHIN 12 FEET VERTICALLY OF A DOOR OR WINDOW.
  8. BARRIERS IF THE TRANSFORMER PAD IS TO BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC (PARKING LOTS, DRIVEWAYS, ETC.) CONTACT BRIGHTON CITY PUBLIC POWER FOR PROTECTIVE BARRIER REQUIREMENTS.
  9. METERING IN GENERAL, THE METERING SHALL BE PLACED ON BUILDINGS OR STRUCTURES.
  10. CONNECTIONS ALL SECONDARY (LOW VOLTAGE) CABLES & SECONDARY CONNECTIONS ARE THE CONTRACTOR'S RESPONSIBILITY. BRIGHTON CITY PUBLIC POWER WILL INSTALL & TERMINATE PRIMARY CABLES & CONNECTIONS ONLY.
  11. ANCHORING CONTRACTOR TO ANCHOR TRANSFORMER TO PAD WITH MINIMUM OF TWO ANCHOR POINTS.
- PRECAST TRANSFORMER PADS MUST BE APPROVED BY THE PUBLIC POWER DEPARTMENT.



- NOTES:
1. SWITCH, GEAR, GROUND SLEEVES SHALL BE PROVIDED BY BRIGHAM CITY PUBLIC POWER AND INSTALLED BY ELECTRICAL CONTRACTOR AS PER CITY SUPPLIED LAYOUT
  2. 2500 LB MALE W/PE SHALL BE BLOWN INTO CONDUIT AND TIED SECURELY TO EACH (2) GROUND ROD
  3. CONDUIT LAYOUT DETAIL SHALL BE GIVEN BY BRIGHAM CITY PUBLIC POWER DURING PRE CONSTRUCTION MEETING
  4. TYPICAL FOR SITE DEVELOPMENTS

[illegible]





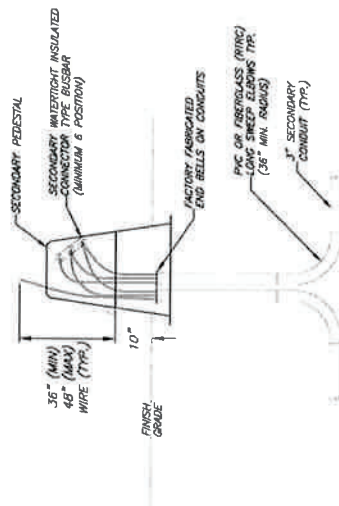
- NOTES:
1. SIX INCH GEAR GROUND SLEEVE SHALL BE PROVIDED BY BROMHAM CITY PUBLIC POWER AND INSTALLED BY ELECTRICAL CONTRACTOR AS PER CITY SUPPLIED LAYOUT
  2. 2000 LB MILE TAPE SHALL BE BLOWN INTO CONDUIT AND TIED SECURELY TO GROUND ROD
  3. CONDUIT LAYOUT DETAIL SHALL BE GIVEN BY BROMHAM CITY PUBLIC POWER DURING PRE CONSTRUCTION MEETING
  4. TYPICAL FOR COMMERCIAL TRANSFORMER PROTECTION FOR 750KVA AND LARGER

24" CONCRETE SKIRT TO BE  
PLACED AROUND SWITCHGEAR. (IF  
LOCATED INSIDE PLANTER STRIP  
THEN CONCRETE WILL BE REQUIRED  
TO EXTEND FROM TBC TO FRONT  
OF WALK)

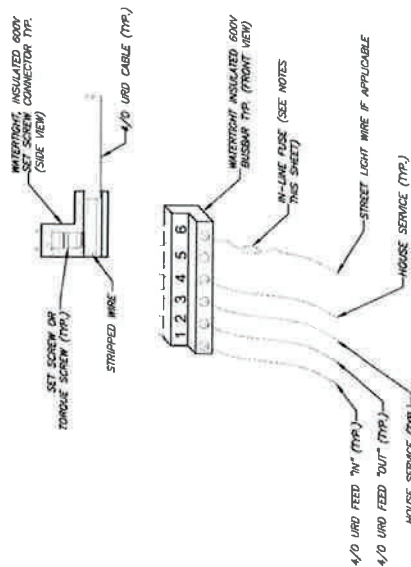
5/8" x 8'-0" COPPER CLAD  
GROUND ROD (TYP.)

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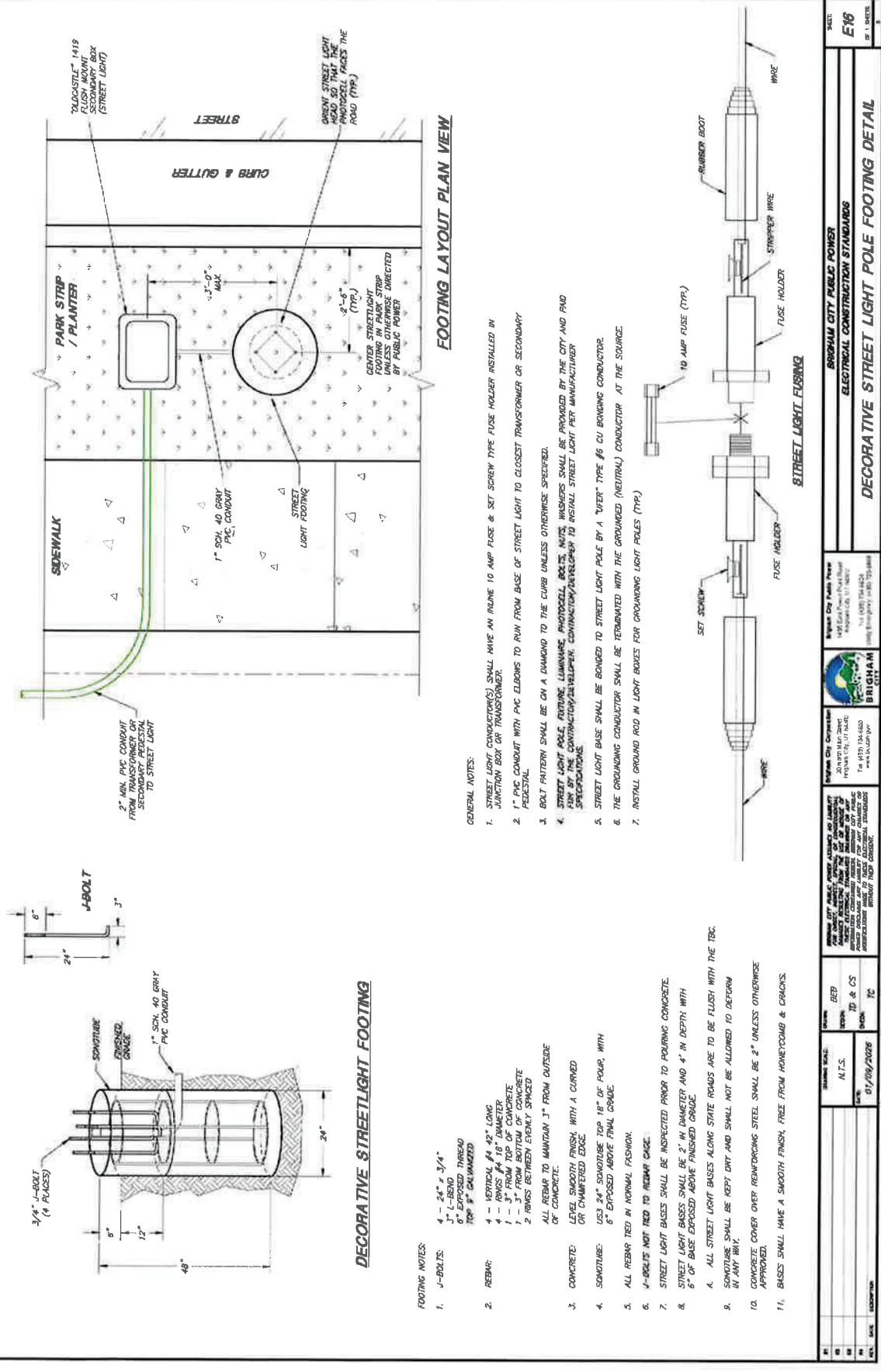


## SECONDARY CONNECTIONS

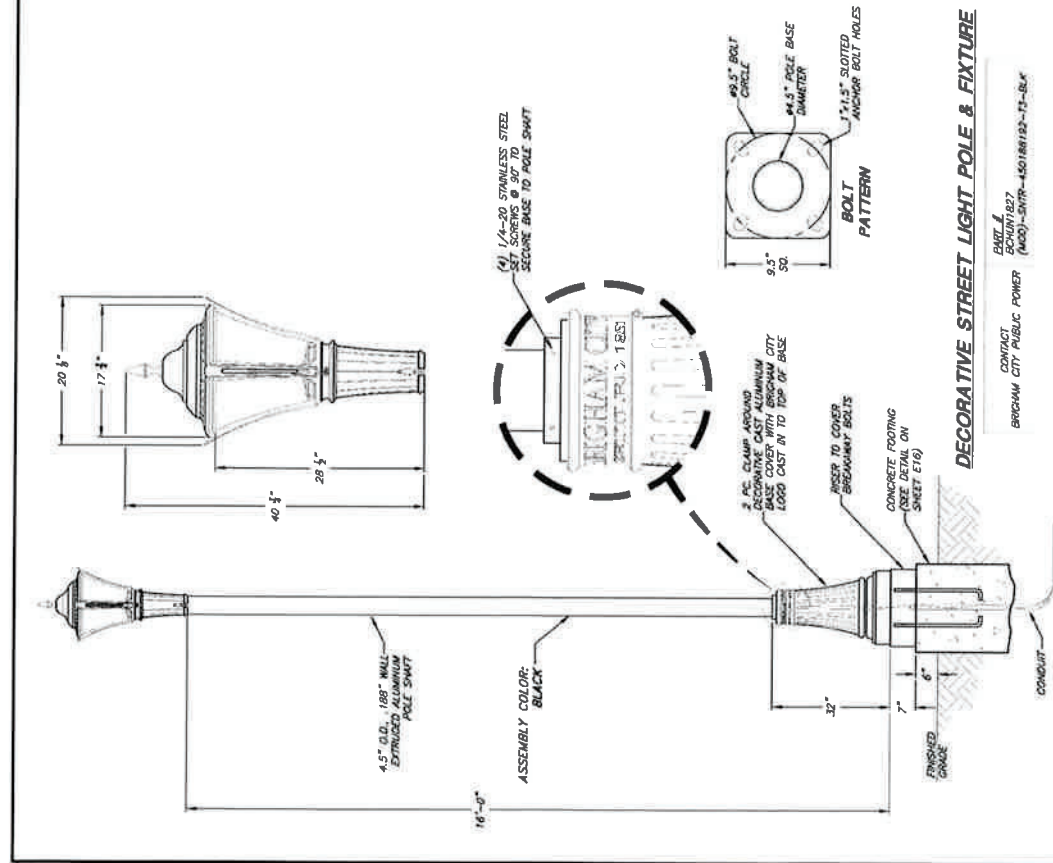


- NOTES:
1. INSTALL AN IN-LINE 10 AMP FUSE & FUSE HOLDER ON THE UNGROUNDED 120/240V STREET LIGHT CONDUCTOR(S) IN JUNCTION BOX.
2. CONDUIT ENTERING INTO ANY SECONDARY PEDESTAL MUST HAVE A FABRICATED BELL END
3. SECONDARY PEDESTAL SHALL BE NORDIC PSP-15-15-30-MG OR PENCIL ALUMINUM-AL APPROVED EQUIVALENT.
4. GROUND LEVEL INSIDE THE GROUND SLEEVE IS THE BOTTOM OF THE GROUND SLEEVE
5. ALL SECONDARY CABLE SHALL EXTEND A MINIMUM OF 36" & A MAXIMUM OF 48" FROM TOP OF SECONDARY BOX (WITHOUT JOG) AND SHALL BE THE URD TYPE CABLE.
6. ROAD BASE SHALL BE USED UNDER SECONDARY BOXES. ROAD BASE SHALL BE COMPACTED TO 95% AND BE TESTED PRIOR TO BOX BEING SET INTO PLACE.
7. ALL SERVICE STUDS SHALL EXTEND 10' PAST PROPERTY LINE.
8. SECONDARY WATERPROOF, INSULATED SET SCREW CONNECTIONS (BAYCHEM GRP-150-60-CBRL) OR EQUIVALENT) SHALL ACCEPT A MINIMUM OF 50% INDIVIDUAL WETES, UNLESS OTHERWISE APPROVED BY ELECTRICAL DEPARTMENT.

[illegible]



SHEET		BIRMINGHAM CITY PUBLIC POWER		E16	
DATE		ELECTRICAL CONSTRUCTION STANDARDS		OF 1 SHEETS	
PROJECT		BIRMINGHAM CITY		DECORATIVE STREET LIGHT POLE FOOTING DETAIL	
DESIGNED BY		BIRMINGHAM CITY		DATE	
CHECKED BY		BIRMINGHAM CITY		DATE	
APPROVED BY		BIRMINGHAM CITY		DATE	

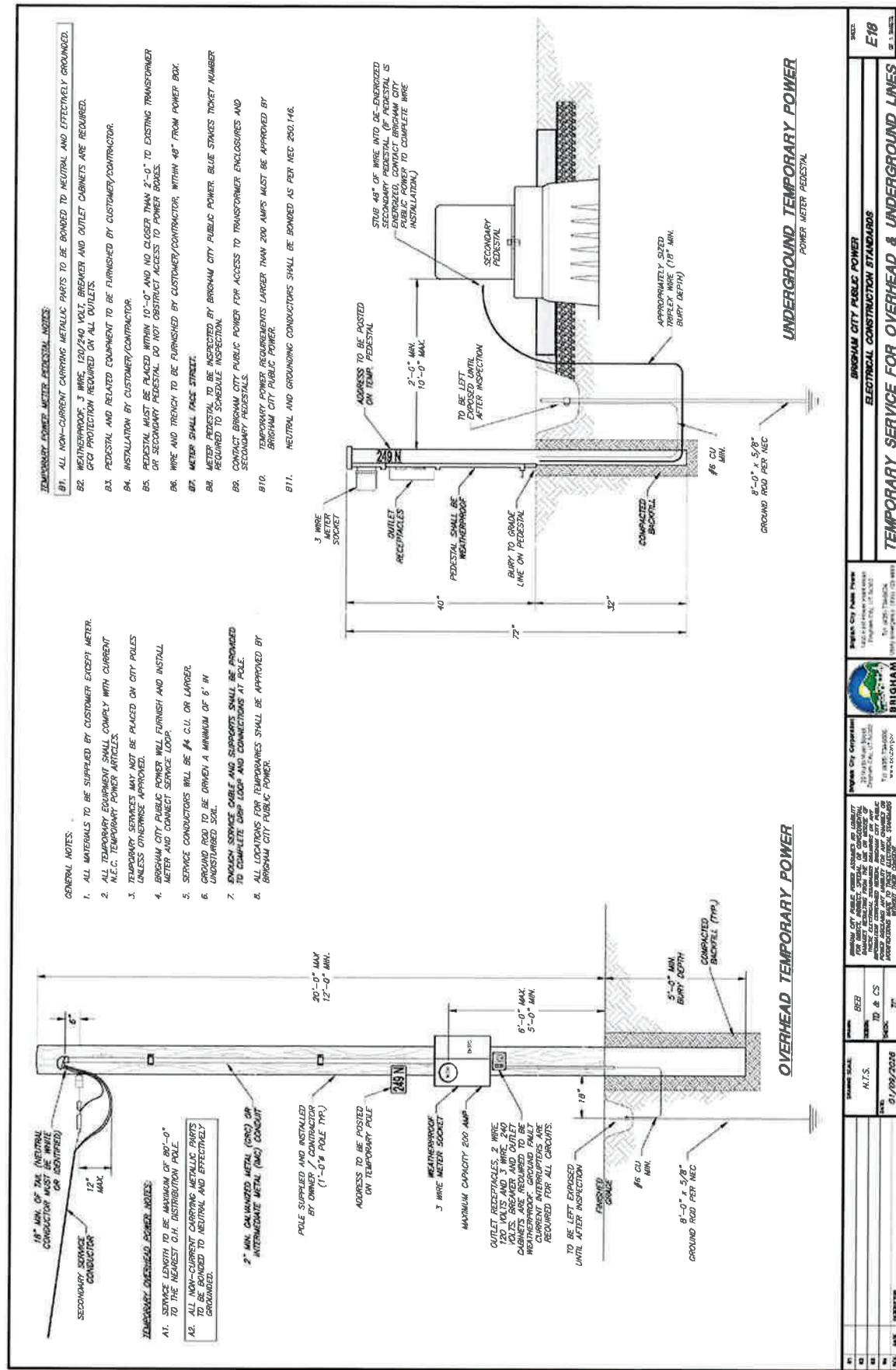


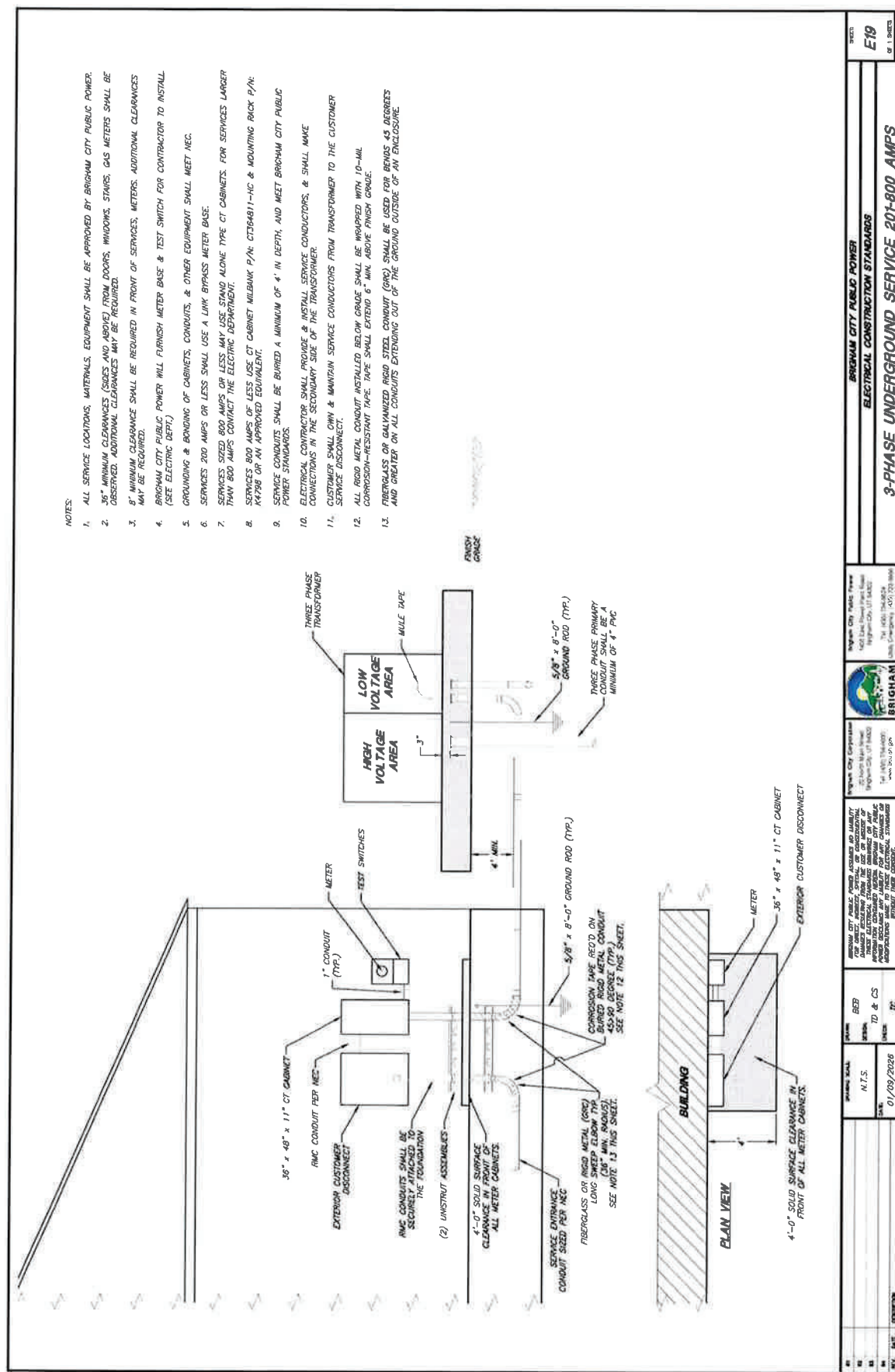
**DECORATIVE STREET LIGHT POLE & FIXTURE**

CONTACT  
BRIGHAM CITY PUBLIC POWER  
PART 1  
BOHUN1827  
(MOD) - SNTR-450188182-11-18-18

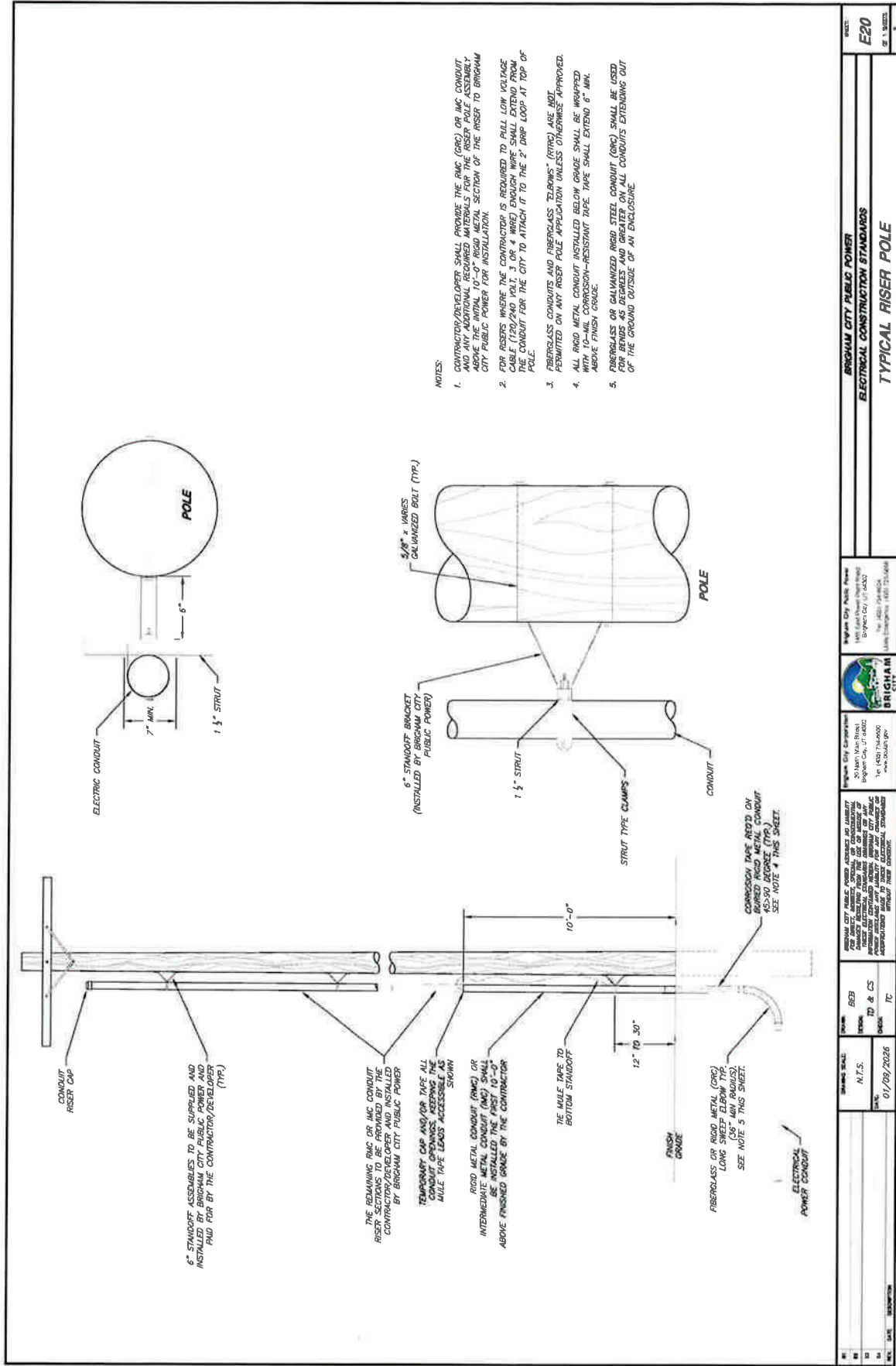
**COBRA HEAD LIGHT POLE & FIXTURE**  
TO BE DETERMINED - CONTACT BRIGHAM CITY PUBLIC POWER

[illegible]



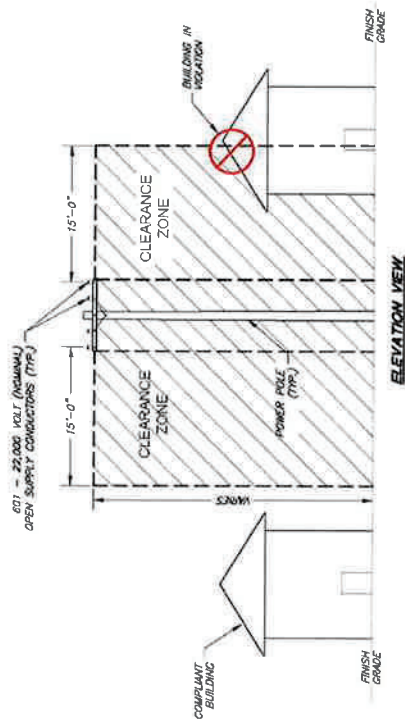
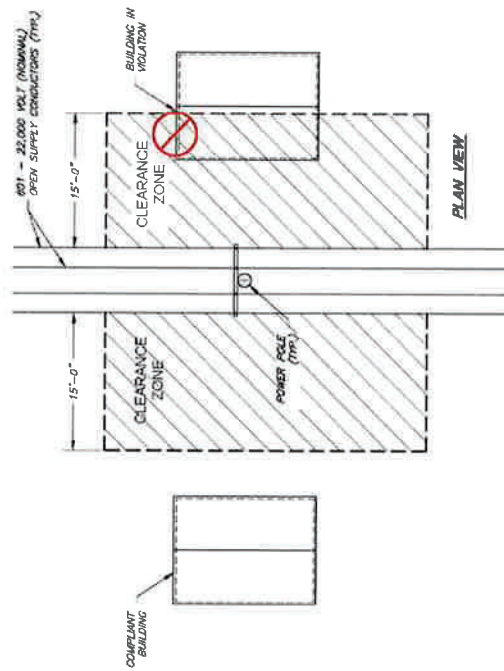






BRIGHAM CITY PUBLIC POWER		BRIGHAM CITY PUBLIC POWER	
ELECTRICAL CONSTRUCTION STANDARDS		ELECTRICAL CONSTRUCTION STANDARDS	
TYPICAL RISER POLE		TYPICAL RISER POLE	
REV	DATE	BY	DATE
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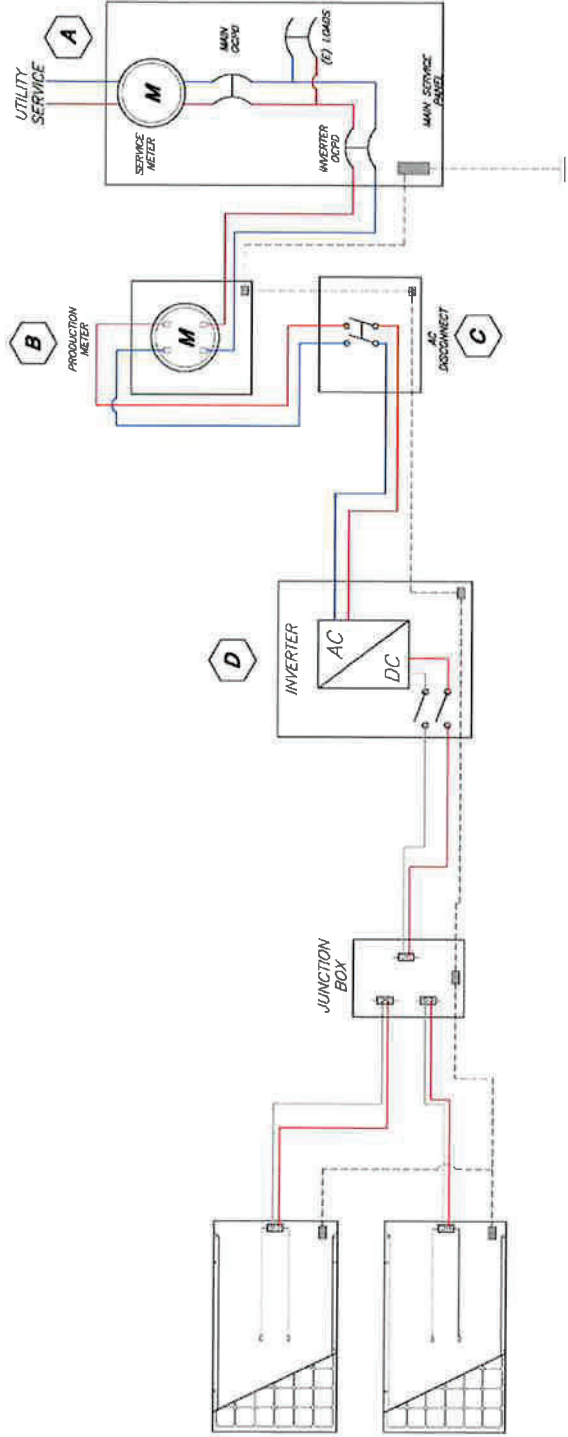


1. NO BUILDING OR STRUCTURE SHALL BE PLACED, OR CONSTRUCTED IN THE POWER LINE CLEARANCE ZONE.
2. CLEARANCES GIVEN ARE TYPICAL AND APPLY TO OPEN SUPPLY PRIMARY CIRCUITS OPERATING AT OVER 600 VOLTS UP TO 22,000 VOLTS, AND MAY NOT APPLY TO ALL CASES OR CIRCUMSTANCES.
3. CLEARANCES DO NOT APPLY TO SECONDARY INSULATED SERVICE CIRCUITS OPERATING AT 600 VOLTS OR LESS.
4. TYPICAL CLEARANCES INCLUDE THE COMPLETE VERTICAL & HORIZONTAL SPACE AROUND POWER LINES FROM THE OUTSIDE CONDUCTOR TO ANY BUILDING, SIGN, OR STRUCTURE.
5. TYPICAL CLEARANCES FOR 12KV PRIMARY OVERHEAD DISTRIBUTION CIRCUITS ARE 15' FROM THE OUTSIDE CONDUCTOR IN ANY DIRECTION FROM ANY BUILDING, SIGN, OR STRUCTURE.
6. TYPICAL CLEARANCES FOR 48KV PRIMARY OVERHEAD TRANSMISSION CIRCUITS ARE 30' FROM THE OUTSIDE CONDUCTOR IN ANY DIRECTION FROM ANY BUILDING, SIGN, OR STRUCTURE.
7. SPECIAL APPLICATIONS, HIGHER VOLTAGES, RAILROAD TRACKS, SWIMMING POOLS, AND OTHER WATER POWER.
8. ANY VARIANCE TO THESE STANDARDS SHALL BE AS APPROVED BY THE PUBLIC POWER DIRECTOR ON A CASE-BY-CASE BASIS.

1	NAME	BRIGHAM CITY PUBLIC POWER	DATE	E21
2	PROJECT	ELECTRICAL CONSTRUCTION STANDARDS		
3	LOCATION	BRIGHAM CITY PUBLIC POWER		
4	DATE	01/09/2026		
5	BY	N.T.S.		
6	FOR	70 & 65		
7	REVISION	TC		
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**THIS DETAIL SHOWS THE REQUIREMENTS FOR A PHOTOVOLTAIC SINGLE-PHASE  
BASIC SYSTEM WITH A CENTRAL INVERTER**



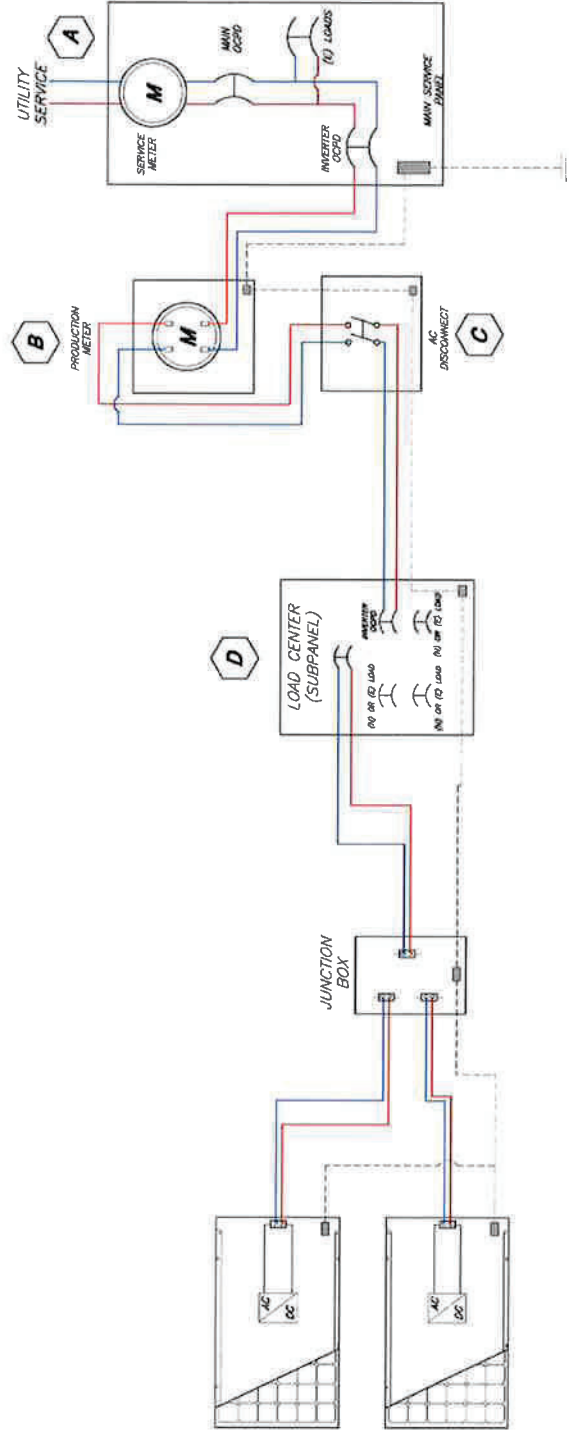
**NOTES:**

- A. MAIN SERVICE PANEL MUST COMPLY WITH CEC LATEST REVISION AND OPERATE IN A SAFE MANNER.
1. BRIGHAM CITY PUBLIC POWER WILL NOT ALLOW INTERCONNECTIONS WITH ANY UNSAFE CONDITIONS.
- B. PRODUCTION METER TO BE PROVIDED AND INSTALLED BY BRIGHAM CITY PUBLIC POWER AT CUSTOMER'S EXPENSE. METER SOCKET TO BE PROVIDED BY INSTALLER. BRIGHAM CITY PUBLIC POWER WILL ACTIVATE THE PV SYSTEM AFTER IT MEETS ALL REQUIREMENTS, AND PASSES ALL INSPECTIONS.
- C. LOCKABLE KNIFE-BLADE UTILITY A.C. DISCONNECT TO BE LOCATED WITHIN 10'-0" AND LINE OF SIGHT OF SERVICE PANEL AND MUST COMPLY WITH UL507 AND 501.
- D. INVERTER MUST COMPLY WITH UL1741 REQUIREMENTS. GROUNDING ELECTRODE SYSTEM MUST COMPLY WITH LATEST REVISION OF CEC ARTICLE 680.47.
1. SEPARATE D.C. DISCONNECT AT GRADE LEVEL REQUIRED ONLY IF INVERTER DOES NOT HAVE AN INTEGRATED D.C. DISCONNECT
- NOTE: A LEASED SYSTEM MAY INCLUDE A SEPARATE METER PROVIDED AND INSTALLED BY THE LEASING COMPANY.
1. LEASED METER WILL NOT BE INSTALLED BETWEEN PRODUCTION METER AND MAIN SERVICE PANEL.
- ALL PV SYSTEMS MUST COMPLY WITH THE LATEST REVISION TO CEC ARTICLES 680 AND 724.
- ALL NECESSARY CLEARANCES SHALL BE ATTACHED TO THE ELECTRIC EQUIPMENT OR LOCATED ADJACENT TO THE IDENTIFIED EQUIPMENT (AS APPROVED BY THE AUI).
- ALL SIGNS OR IDENTIFIERS SHALL BE PERMANENTLY ATTACHED BY MEANS OF ENGRAVING, STAMPING, OR PRINTING. (SCREWS OR NAILS ARE NOT ALLOWED).
- ALL SIGNS SHALL BE PERMANENTLY ATTACHED BY MEANS OF ENGRAVING, STAMPING, OR PRINTING. (SCREWS OR NAILS ARE NOT ALLOWED).
- ALL SIGNS SHALL BE EITHER METAL OR PLASTIC WITH ENGRAVED LETTERS, MACHINE PRINTED LETTERS, OR ELECTRO-PHOTO PLATING LETTERS IN RED WITH WHITE LETTERING.

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BRIGHAM CITY PUBLIC POWER	BRIGHAM CITY PUBLIC POWER	BRIGHAM CITY PUBLIC POWER	BRIGHAM CITY PUBLIC POWER
ELECTRICAL CONSTRUCTION STANDARDS	ELECTRICAL CONSTRUCTION STANDARDS	ELECTRICAL CONSTRUCTION STANDARDS	ELECTRICAL CONSTRUCTION STANDARDS
PHOTOVOLTAIC SINGLE-PHASE SYSTEM DIAGRAM	PHOTOVOLTAIC SINGLE-PHASE SYSTEM DIAGRAM	PHOTOVOLTAIC SINGLE-PHASE SYSTEM DIAGRAM	PHOTOVOLTAIC SINGLE-PHASE SYSTEM DIAGRAM
CENTRAL INVERTER (RESIDENTIAL)	CENTRAL INVERTER (RESIDENTIAL)	CENTRAL INVERTER (RESIDENTIAL)	CENTRAL INVERTER (RESIDENTIAL)
E23	E23	E23	E23
OF 1 SHEET	OF 1 SHEET	OF 1 SHEET	OF 1 SHEET

**THIS DETAIL SHOWS THE REQUIREMENTS FOR A PHOTOVOLTAIC SINGLE-PHASE  
BASIC SYSTEM WITH MICRO INVERTERS**



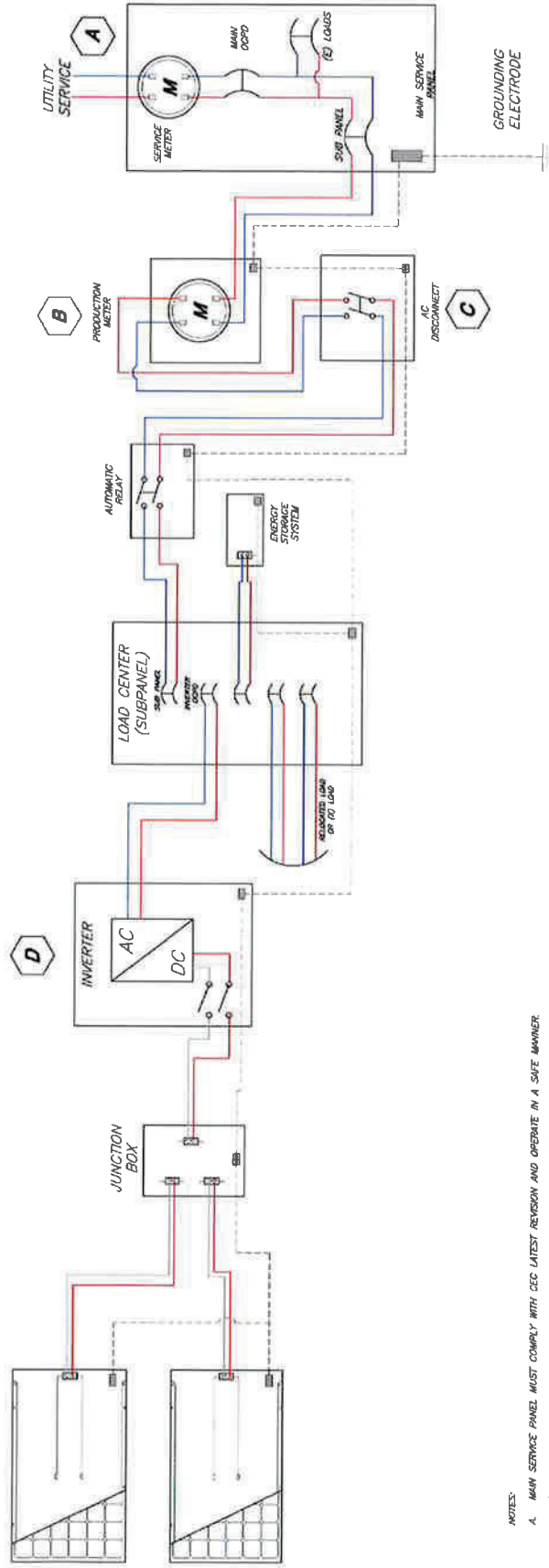
**NOTES:**

- A. MAIN SERVICE PANEL MUST COMPLY WITH CEC LATEST REVISION AND OPERATE IN A SAFE MANNER.
1. BRIGHAM CITY PUBLIC POWER WILL NOT ALLOW INTERCONNECTIONS WITH ANY UNSAFE CONDITIONS.
- B. PRODUCTION METER TO BE PROVIDED AND INSTALLED BY BRIGHAM CITY PUBLIC POWER AT CUSTOMER'S EXPENSE. METER SOCKET TO BE PROVIDED BY INSTALLER.
1. ALL SYSTEMS MUST COMPLY WITH CEC LATEST REVISIONS AND PASS ALL INSPECTIONS.
- C. CENTER OF METER MUST BE INSTALLED BETWEEN 4'-0" AND 6'-3" ABOVE FINAL GRADE.
- D. LOCKABLE KNIFE-BLADE UTILITY A.C. DISCONNECT TO BE LOCATED WITHIN 10'-0" AND LINE OF SIGHT OF SERVICE PANEL AND MUST COMPLY WITH ELSERG DING 501.
- E. INVERTER MUST COMPLY WITH UL1741 REQUIREMENTS. GROUNDING ELECTRODE SYSTEM MUST COMPLY WITH LATEST REVISION OF CEC ARTICLE 680.47.
1. SEPARATE D.C. DISCONNECT AT GRADE LEVEL REQUIRED ONLY IF INVERTER DOES NOT HAVE AN INTEGRATED D.C. DISCONNECT
- NOTE: A LEASED SYSTEM MAY INCLUDE A SEPARATE METER PROVIDED AND INSTALLED BY THE LEASING COMPANY.
1. LEASED METER WILL NOT BE INSTALLED BETWEEN PRODUCTION METER AND MAIN SERVICE PANEL.
- ALL PV SYSTEMS MUST COMPLY WITH THE LATEST REVISION TO CEC ARTICLES 690 AND 706.
- ALL NECESSARY CLEARANCES SHALL BE ATTACHED TO THE ELECTRIC EQUIPMENT OR LOCATED ADJACENT TO THE IDENTIFIED EQUIPMENT (AS APPROVED BY THE AHJ).
- ALL SIGNS OR IDENTIFIERS SHALL BE PERMANENTLY ATTACHED TO THE EQUIPMENT (SIGNS OR PLATES ARE NOT ALLOWED).
- ALL SIGNS SHALL BE PERMANENTLY ATTACHED BY MEANS OF ENGRAVED OR EQUIVALENT SUITABLE FOR THE ENVIRONMENT (SIGNS OR PLATES ARE NOT ALLOWED).
- ALL SIGNS SHALL BE EITHER METAL OR PLASTIC WITH ENGRAVED LETTERS, OR ELECTRO-PHOTO PLATING LETTERS IN RED WITH WHITE LETTERING.

REV	DATE	BY	CHKD	APP'D	DESCRIPTION
1	01/09/2025	N.T.S.	TD & CS	TC	
BRIGHAM CITY PUBLIC POWER					
ELECTRICAL CONSTRUCTION STANDARDS					
PHOTOVOLTAIC SINGLE-PHASE SYSTEM DIAGRAM					
MICRO INVERTER (RESIDENTIAL)					
E24					
OF 1 SHEET					



**THIS DETAIL SHOWS THE REQUIREMENTS FOR A PHOTOVOLTAIC SINGLE-PHASE SYSTEM WITH ENERGY STORAGE (CENTRAL INVERTER)**



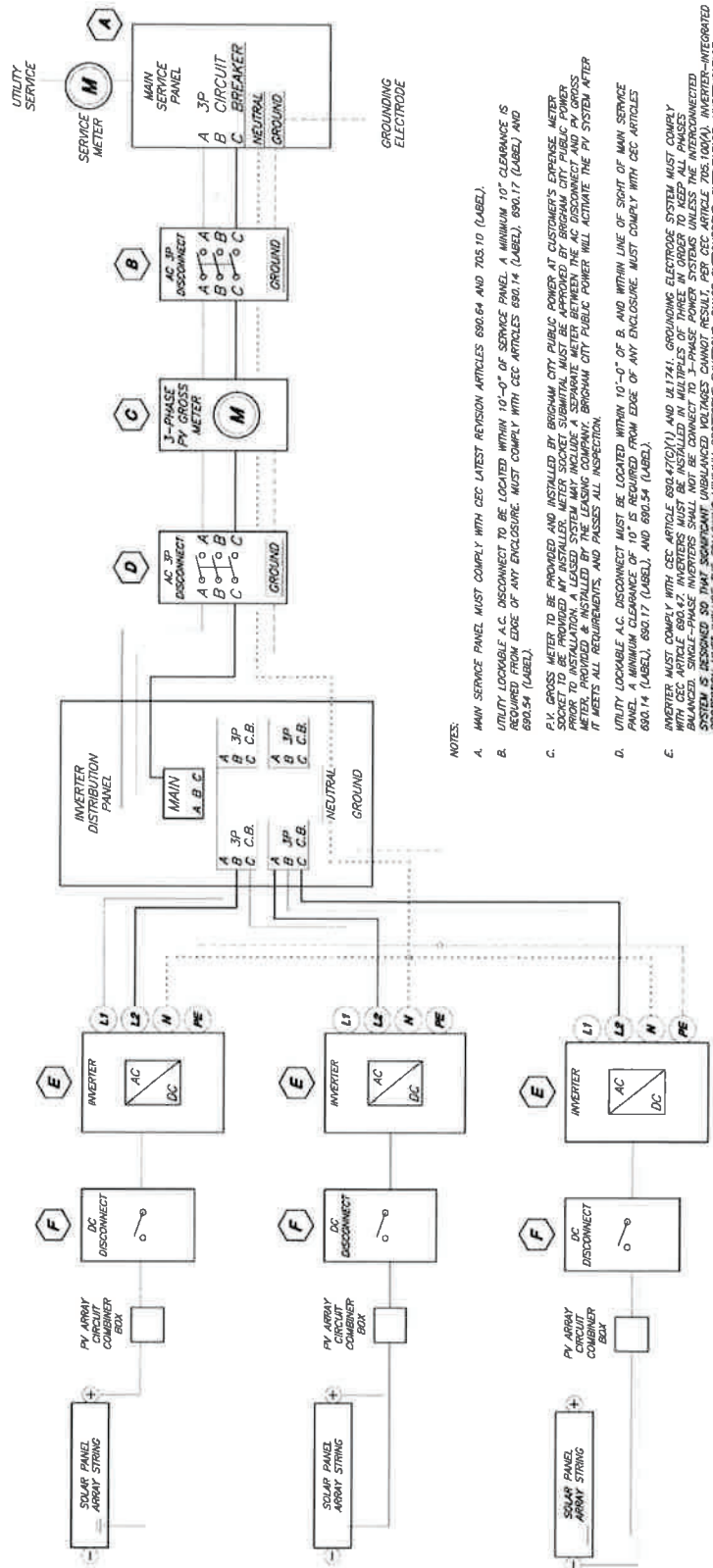
- NOTES:**
- A. MAIN SERVICE PANEL MUST COMPLY WITH CEC LATEST REVISION AND OPERATE IN A SAFE MANNER.
  1. BROOKHAM CITY PUBLIC POWER WILL NOT ALLOW INTERCONNECTIONS WITH ANY UNSAFE CONDITIONS.
  - B. PRODUCTION METER TO BE PROVIDED AND INSTALLED BY BROOKHAM CITY PUBLIC POWER AT CUSTOMER'S CHARGE. METER SOCKET TO BE PROVIDED BY INSTALLER.
  - C. BROOKHAM CITY PUBLIC POWER WILL ACTIVATE THE PV SYSTEM AFTER IT MEETS ALL REQUIREMENTS, AND PASSED ALL INSPECTIONS.
  1. CENTER OF METER MUST BE INSTALLED BETWEEN 4'-0" AND 6'-3" ABOVE FINAL GRADE
  - D. LOCKABLE KNIFE-BLADE UTILITY A.C. DISCONNECT TO BE LOCATED WITHIN 10'-0" AND LINE OF SIGHT OF SERVICE PANEL AND MUST COMPLY WITH UL958C DWG 901.
  - E. WHEPETER COMPANY WILL UL1741 REQUIREMENTS. GROUNDING ELECTRODE SYSTEM MUST COMPLY WITH LATEST REVISION OF CEC ARTICLE 880.47.
  1. SEPARATE D.C. DISCONNECT AT GRADE LEVEL REQUIRED ONLY IF INVERTER DOES NOT HAVE AN INTEGRATED D.C. DISCONNECT
  - NOTE: A LEASED SYSTEM MAY INCLUDE A SEPARATE METER PROVIDED AND INSTALLED BY THE LEASING COMPANY:
  1. LEASED METER WILL NOT BE INSTALLED BETWEEN PRODUCTION METER AND MAIN SERVICE PANEL.
  - ALL PV SYSTEMS SHALL COMPLY WITH THE LATEST REVISION TO CEC ARTICLES 680 AND 705.
  - ALL NECESSARY CLEARANCES SHALL COMPLY WITH CEC ARTICLE 110.2B.
  - ALL ELECTRICAL EQUIPMENT SHALL BE PERMANENTLY ATTACHED TO THE STRUCTURE OR LOCATED ADJACENT TO THE MOUNTED EQUIPMENT (AS APPROVED BY THE AHJ).
  - ALL SONS SHALL BE SUPPLIED THROUGHOUT THE ENTIRE LENGTH OF THE RACKING.
  - ALL SONS SHALL BE PERMANENTLY ATTACHED BY MEANS OF EXOTIC OR EQUIVALENT SUITABLE FOR THE ENVIRONMENT (SCREWS OR RIVETS ARE NOT ALLOWED).
  - ALL SONS SHALL BE EITHER METAL OR PLASTIC WITH ENGRAVED LETTERS, MACHINE PRINTED LETTERS, OR ELECTRO-IMAGED PLAYING LETTERS IN RED WITH WHITE LETTERING.

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**THIS DETAIL SHOWS THE REQUIREMENTS FOR A PHOTOVOLTAIC THREE-PHASE SYSTEM USING MULTIPLE 2-LINE 1-PHASE INVERTERS WITH A NEUTRAL CONNECTION**



**NOTES:**

- MAIN SERVICE PANEL MUST COMPLY WITH CEC LATEST REVISION ARTICLES 690.64 AND 705.10 (LABEL).
  - UTILITY LOCABLE A.C. DISCONNECT TO BE LOCATED WITHIN 10'-0" OF SERVICE PANEL. A MINIMUM 10" CLEARANCE IS REQUIRED FROM EDGE OF ANY ENCLOSURE. MUST COMPLY WITH CEC ARTICLES 690.14 (LABEL), 690.17 (LABEL) AND 690.54 (LABEL).
  - P.V. GROSS METER TO BE PROVIDED AND INSTALLED BY BRIGHAM CITY PUBLIC POWER AT CUSTOMER'S EXPENSE. METER SOCKET TO BE PROVIDED BY INSTALLER. METER SOCKET SUBMITTAL MUST BE APPROVED BY BRIGHAM CITY PUBLIC POWER. METER MUST BE INSTALLED IN A SEPARATE METER ENCLOSURE. SEPARATE METER BETWEEN THE AC DISCONNECT AND PV GROSS METER. PROVIDED AS INSTALLED BY BRIGHAM CITY PUBLIC POWER WILL ACTIVATE THE PV SYSTEM AFTER IT MEETS ALL REQUIREMENTS, AND PASSES ALL INSPECTIONS.
  - UTILITY LOCABLE A.C. DISCONNECT MUST BE LOCATED WITHIN 10'-0" OF B. AND WITHIN LINE OF SIGHT OF MAIN SERVICE PANEL. A MINIMUM CLEARANCE OF 10' IS REQUIRED FROM EDGE OF ANY ENCLOSURE. MUST COMPLY WITH CEC ARTICLES 690.14 (LABEL), 690.17 (LABEL), AND 690.54 (LABEL).
  - INVERTER MUST COMPLY WITH CEC ARTICLE 690.47(C)(1) AND UL1741. GROUNDING ELECTRODE SYSTEM MUST COMPLY WITH CEC ARTICLE 690.53 (LABEL). INVERTER MUST BE CONNECTED TO 3-PHASE POWER SYSTEMS UNLESS THE INTERCONNECTED SYSTEM IS DESIGNED SO THAT SIGNIFICANT UNBALANCED VOLTAGES CANNOT RESULT. PER CEC ARTICLE 705.10(A). INVERTER-INTEGRATED PROTECTION MUST INCLUDE THE FOLLOWING MINIMUM PROTECTIVE FUNCTIONS: PHASE OVERCURRENT, OVERVOLTAGE, UNDERVOLTAGE, OVERTEMPERATURE, AND AC GND FAULT.
  - D.C. DISCONNECT MUST COMPLY WITH CEC ARTICLES 690.14(A-D), 690.53 (LABEL), 690.7 (LABEL) AND 690.8.
- SEPARATE DC DISCONNECT IS REQUIRED ONLY IF INVERTER WAS AN INTEGRATED (BUT NOT SEPARATED) DC DISCONNECT. SIGNS OR DISCONNECTS SHALL BE ATTACHED TO THE ELECTRIC EQUIPMENT OR LOCATED ADJACENT TO THE IDENTIFIED EQUIPMENT. SIGNS SHALL BE ATTACHED TO THE EQUIPMENT BY MEANS OF EPOXY, SCREENS, OR INVERTS. OUTDOOR SIGNS SHALL BE EITHER METAL OR PLASTIC WITH ENGRAVED OR MACHINE PRINTED LETTERS. OR ELECTRO-PHOTO PLATING, IN A CONTRASTING COLOR TO THE SIGN BACKGROUND. SPACE REQUIREMENTS FOR ELECTRIC EQUIPMENT SHALL COMPLY WITH CEC ARTICLE 110.25.

BRIGHAM CITY PUBLIC POWER		E27	
ELECTRICAL CONSTRUCTION STANDARDS		PHOTOVOLTAIC THREE-PHASE SYSTEM DIAGRAM USING MULTIPLE TWO-LINE SINGLE-PHASE INVERTERS WITH NEUTRAL CONNECTION	
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BRIGHAM CITY CORPORATION		300 West 100 South Brigham City, UT 84302	
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**THIS DETAIL SHOWS THE WARNING LABEL REQUIREMENTS FOR THE PV SERVICE PANEL**

**DUAL POWER SUPPLY  
PHOTOVOLTAIC SYSTEM**

MAIN BREAKER

## DIRECTORY PLAQUE

PLACE THIS LABEL ON  
THE SERVICE PANEL  
COVER ALONG WITH THE  
DIRECTORY PLAQUE

SOLAR BREAKER

**WARNING**  
ELECTRIC SHOCK HAZARD  
DO NOT TOUCH TERMINALS  
TERMINALS ON BOTH LINE  
AND LOAD SIDES MAY BE  
ENERGIZED IN THE OPEN POSITION

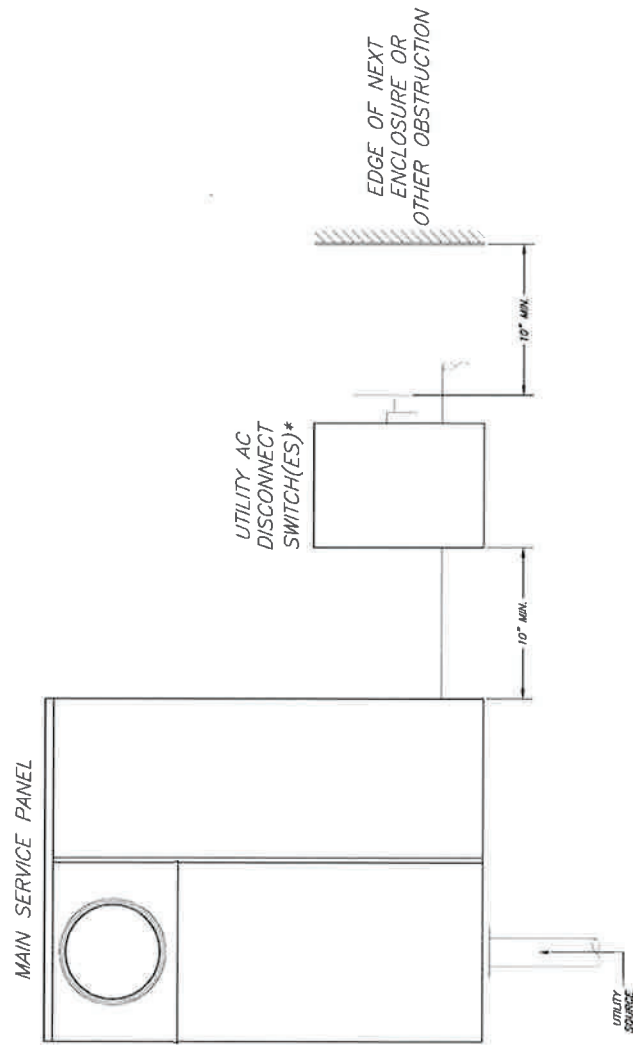
PY BREAKER LABEL SHALL  
-BE NEXT TO OR JUST BELOW  
SOLAR BREAKER

NOTES:

A. REQUIRED PLACARDS SHALL BE ATTACHED TO THE ELECTRIC EQUIPMENT WITHOUT COVERING MANUFACTURER LABELING OR LOCATED ADJACENT TO THE IDENTIFIED EQUIPMENT (PER ANI APPROVAL.)

- NOTES:
1. ALL PLACARDS SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT.
  2. ALL PLACARDS SHALL BE PERMANENTLY ATTACHED TO THE SURFACE OF THE ELECTRICAL EQUIPMENT BY MEANS OF EPOXY OR EQUIVALENT SUITABLE FOR THE ENVIRONMENT (SCREWS OR RIVETS ARE NOT ALLOWED)
  3. ALL PLACARDS SHALL BE EITHER METAL OR PLASTIC WITH ENGRAVED OR MACHINE PRINTED LETTERS OR ELECTRO-PHOTO PLATING IN RED WITH WHITE LETTERING.
  4. ALL PLACARDS SHALL NOT BE SMALLER THAN 3"x6" (WITH THE EXCEPTION OF THE DIRECTORY PLACARD)
  5. ALL PLACARDS FONT STYLE SHALL BE ABJUL WITH THE FONT SIZE NO SMALLER THAN SIZE 12 OR NO LARGER THAN SIZE 24.
  6. EACH A.C. DISCONNECT SHALL HAVE ITS OWN PLACARD AND MUST COMPLY WITH NEC 690.15(A), NEC ARTICLES 690.12, 690.17, AND 690.54
  7. EACH D.C. DISCONNECT SHALL HAVE ITS OWN PLACARD AND MUST COMPLY WITH NEC ARTICLES 690.53, 690.54, 690.55, 690.56, 690.57, 690.58, 690.59, 690.60, 690.61, 690.62, 690.63, 690.64, 690.65, 690.66, 690.67, 690.68, 690.69, 690.70, 690.71, 690.72, 690.73, 690.74, 690.75, 690.76, 690.77, 690.78, 690.79, 690.80, 690.81, 690.82, 690.83, 690.84, 690.85, 690.86, 690.87, 690.88, 690.89, 690.90, 690.91, 690.92, 690.93, 690.94, 690.95, 690.96, 690.97, 690.98, 690.99, 691.1, 691.2, 691.3, 691.4, 691.5, 691.6, 691.7, 691.8, 691.9, 691.10, 691.11, 691.12, 691.13, 691.14, 691.15, 691.16, 691.17, 691.18, 691.19, 691.20, 691.21, 691.22, 691.23, 691.24, 691.25, 691.26, 691.27, 691.28, 691.29, 691.30, 691.31, 691.32, 691.33, 691.34, 691.35, 691.36, 691.37, 691.38, 691.39, 691.40, 691.41, 691.42, 691.43, 691.44, 691.45, 691.46, 691.47, 691.48, 691.49, 691.50, 691.51, 691.52, 691.53, 691.54, 691.55, 691.56, 691.57, 691.58, 691.59, 691.60, 691.61, 691.62, 691.63, 691.64, 691.65, 691.66, 691.67, 691.68, 691.69, 691.70, 691.71, 691.72, 691.73, 691.74, 691.75, 691.76, 691.77, 691.78, 691.79, 691.80, 691.81, 691.82, 691.83, 691.84, 691.85, 691.86, 691.87, 691.88, 691.89, 691.90, 691.91, 691.92, 691.93, 691.94, 691.95, 691.96, 691.97, 691.98, 691.99, 692.1, 692.2, 692.3, 692.4, 692.5, 692.6, 692.7, 692.8, 692.9, 692.10, 692.11, 692.12, 692.13, 692.14, 692.15, 692.16, 692.17, 692.18, 692.19, 692.20, 692.21, 692.22, 692.23, 692.24, 692.25, 692.26, 692.27, 692.28, 692.29, 692.30, 692.31, 692.32, 692.33, 692.34, 692.35, 692.36, 692.37, 692.38, 692.39, 692.40, 692.41, 692.42, 692.43, 692.44, 692.45, 692.46, 692.47, 692.48, 692.49, 692.50, 692.51, 692.52, 692.53, 692.54, 692.55, 692.56, 692.57, 692.58, 692.59, 692.60, 692.61, 692.62, 692.63, 692.64, 692.65, 692.66, 692.67, 692.68, 692.69, 692.70, 692.71, 692.72, 692.73, 692.74, 692.75, 692.76, 692.77, 692.78, 692.79, 692.80, 692.81, 692.82, 692.83, 692.84, 692.85, 692.86, 692.87, 692.88, 692.89, 692.90, 692.91, 692.92, 692.93, 692.94, 692.95, 692.96, 692.97, 692.98, 692.99, 693.1, 693.2, 693.3, 693.4, 693.5, 693.6, 693.7, 693.8, 693.9, 693.10, 693.11, 693.12, 693.13, 693.14, 693.15, 693.16, 693.17, 693.18, 693.19, 693.20, 693.21, 693.22, 693.23, 693.24, 693.25, 693.26, 693.27, 693.28, 693.29, 693.30, 693.31, 693.32, 693.33, 693.34, 693.35, 693.36, 693.37, 693.38, 693.39, 693.40, 693.41, 693.42, 693.43, 693.44, 693.45, 693.46, 693.47, 693.48, 693.49, 693.50, 693.51, 693.52, 693.53, 693.54, 693.55, 693.56, 693.57, 693.58, 693.59, 693.60, 693.61, 693.62, 693.63, 693.64, 693.65, 693.66, 693.67, 693.68, 693.69, 693.70, 693.71, 693.72, 693.73, 693.74, 693.75, 693.76, 693.77, 693.78, 693.79, 693.80, 693.81, 693.82, 693.83, 693.84, 693.85, 693.86, 693.87, 693.88, 693.89, 693.90, 693.91, 693.92, 693.93, 693.94, 693.95, 693.96, 693.97, 693.98, 693.99, 694.1, 694.2, 694.3, 694.4, 694.5, 694.6, 694.7, 694.8, 694.9, 694.10, 694.11, 694.12, 694.13, 694.14, 694.15, 694.16, 694.17, 694.18, 694.19, 694.20, 694.21, 694.22, 694.23, 694.24, 694.25, 694.26, 694.27, 694.28, 694.29, 694.30, 694.31, 694.32, 694.33, 694.34, 694.35, 694.36, 694.37, 694.38, 694.39, 694.40, 694.41, 694.42, 694.43, 694.44, 694.45, 694.46, 694.47, 694.48, 694.49, 694.50, 694.51, 694.52, 694.53, 694.54, 694.55, 694.56, 694.57, 694.58, 694.59, 694.60, 694.61, 694.62, 694.63, 694.64, 694.65, 694.66, 694.67, 694.68, 694.69, 694.70, 694.71, 694.72, 694.73, 694.74, 694.75, 694.76, 694.77, 694.78, 694.79, 694.80, 694.81, 694.82, 694.83, 694.84, 694.85, 694.86, 694.87, 694.88, 694.89, 694.90, 694.91, 694.92, 694.93, 694.94, 694.95, 694.96, 694.97, 694.98, 694.99, 695.1, 695.2, 695.3, 695.4, 695.5, 695.6, 695.7, 695.8, 695.9, 695.10, 695.11, 695.12, 695.13, 695.14, 695.15, 695.16, 695.17, 695.18, 695.19, 695.20, 695.21, 695.22, 695.23, 695.24, 695.25, 695.26, 695.27, 695.28, 695.29, 695.30, 695.31, 695.32, 695.33, 695.34, 695.35, 695.36, 695.37, 695

[illegible]



EUSERC DWG NO. 501

- NOTES:
1. \* CHECK THE ACCEPTABILITY TABLES FOR UTILITY REQUIREMENTS.
  2. THE AC DISCONNECT SWITCH MAY BE FUSED OR UNFUSED.
  3. THE AC DISCONNECT SWITCH SHALL BE LOCATED WITHIN 10'-0" OF THE MAIN SERVICE PANEL AND WITHIN LINE OF SIGHT.
  4. A MINIMUM 10" CLEARANCE IS REQUIRED FROM THE EDGE OF ANY ENCLOSURE.

NO.	DATE	DESCRIPTION	DATE	BY	REVISION
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ID NUMBER	WIRE DESCRIPTION	TRAINING PRIORITY
1	PRIMARY LINES (MAIN VOLTAGE)	PRIORITY 1 (HIGHEST)
2	SECONDARY LINES	PRIORITY 2
3	STREET LIGHTS	PRIORITY 3
4	POWER SERVICE DROP	PRIORITY 3
5	COMMUNICATION LINES (TELEPHONE, CABLE, FIBER, ETC.)	NOT MAINTAINED BY (T) FPM&S (SEE ELECTRICAL)



