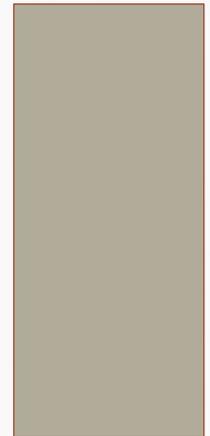


TRANSMISSION LINE  
ROCKY MOUNTAIN POWER &  
HEBER LIGHT AND POWER

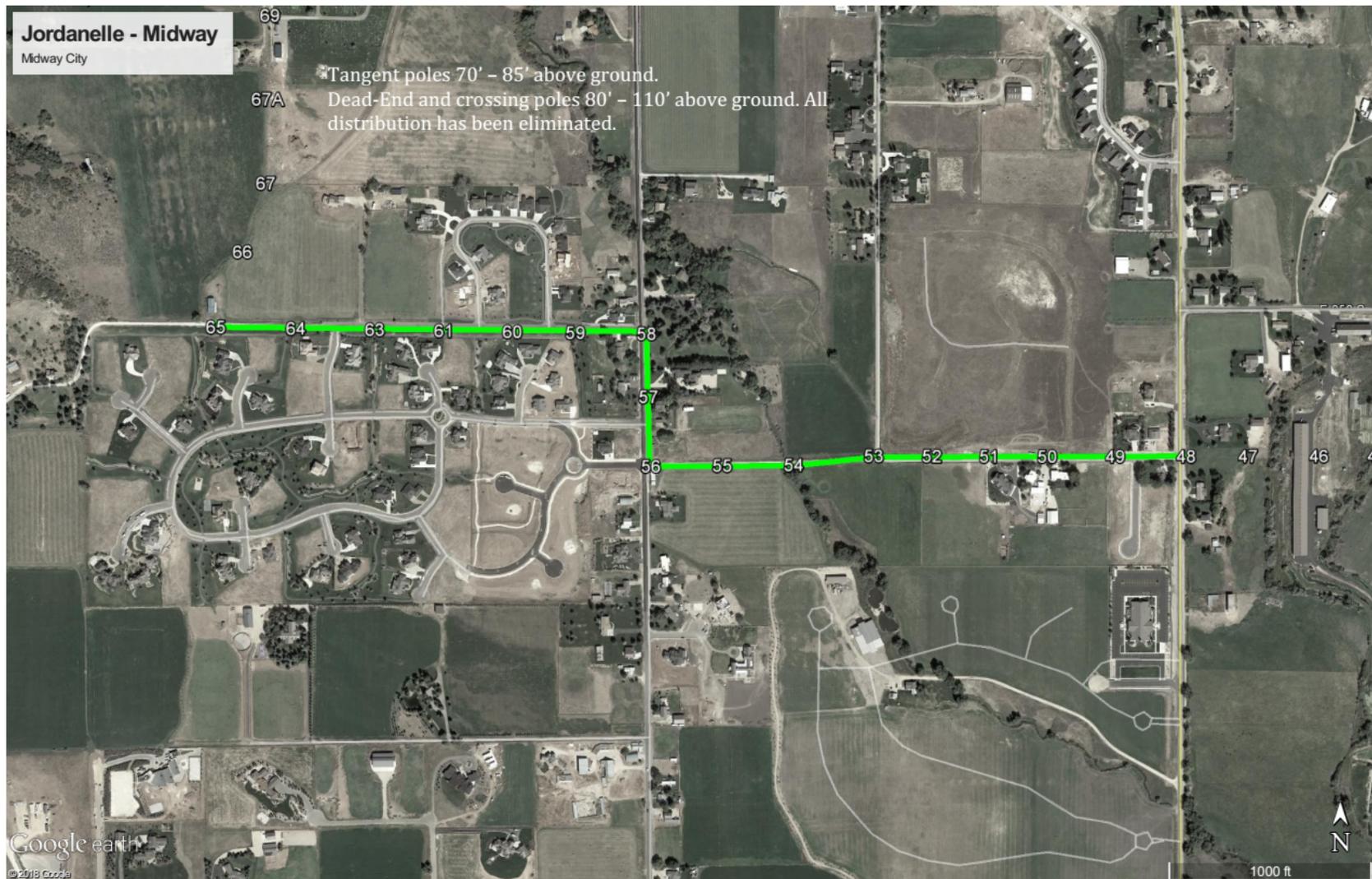
CONDITIONAL USE



# PROPOSED CONDITIONAL USE

- Rebuild existing HL&P (46-138kV)
- Install RMP lines on the same poles (138kV)
- Establish a second transmission line interconnection
  - Strengthen reliability
  - Increase capacity in Midway and surrounding area
- About 1 mile of transmission line in Midway
  - Follow historic route
    - Stringtown Road, Wards Lane, and 970 South
- Pole heights would range from 65' – 88'
- Distribution lines would be buried by HL&P

# PROPOSED CONDITIONAL USE





— TRANSMISSION LINE TO BE REBUILT

① VIEWPOINT LOCATION

● SUBSTATION

# JORDANELLE TO MIDWAY TRANSMISSION LINE UPGRADE PROJECT



PHOTO REGULATIONS BY  
**POWER**  
ENGINEERS

EXISTING CONDITIONS



PROPOSED CONDITIONS



## JORDANELLE TO MIDWAY TRANSMISSION LINE UPGRADE PROJECT

### PHOTO SIM VIEWPOINT 1

- TRANSMISSION LINE TO BE REBUILT
- ① SIMULATION VIEWPOINT LOCATION

PHOTO SIMULATION BY  POWER ENGINEERS

DATE: 04/24/2018

TIME: 1:42 PM

DIRECTION: SOUTH

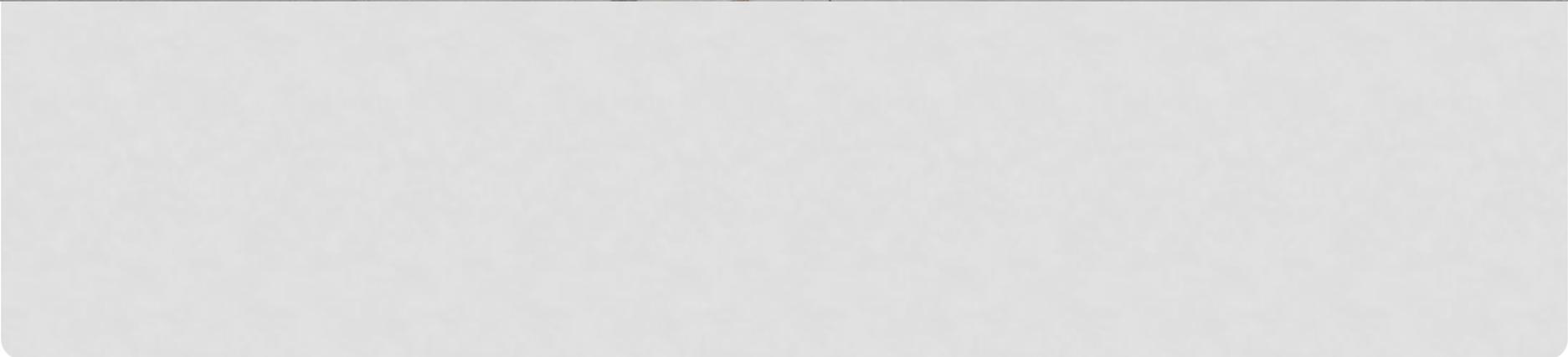


PHOTO SIMULATION IS FOR DEMONSTRATION PURPOSES ONLY. FINAL DESIGN IS SUBJECT TO CHANGE PENDING PUBLIC, ENGINEERING, AND REGULATORY REVIEW.

## EXISTING CONDITIONS



**PROPOSED CONDITIONS**



## HL&P PROPOSED POSSIBLE CONDITIONS

- Visual/aesthetic conditions as outlined in the prior meeting: taller/long span poles, rust-colored metal poles plus wood poles, non-specular wire, distribution and communications lines underground, designed/constructed for future improvement of 900 South.
- The companies must contact all property owners whose properties are crossed by the power line prior to beginning construction.
- The companies must obtain all property rights required by Utah law prior to beginning construction.

## HL&P PROPOSED POSSIBLE CONDITIONS

- In the event a final determination is made by a court with jurisdiction that any existing property rights are not sufficient for the project, the companies will acquire legally sufficient property rights for the project, which may include negotiated agreements with the property owners or the use of eminent domain. As a part of this process and in accordance with Utah law, the companies will pay compensation for the properties either as negotiated with the property owner or determined by the court.

## HL&P PROPOSED POSSIBLE CONDITIONS

- Notwithstanding the requirement in the Utility Facility Review Board Act that all of the estimated cost difference be paid within 30 days prior to start of construction, the City would pay only \$75,000 by 1/15/2020 to start study and design work on the underground line. If not paid by that date, the line will be designed and built overhead.

## HL&P PROPOSED POSSIBLE CONDITIONS

- If the City makes an administrative decision that the line is to be constructed underground, the City would pay the balance of the estimated difference in costs between standard (overhead) construction and underground construction by 2/17/2020; the underground line, including the drop poles, will be constructed in Midway City. If the balance is not paid on time, the line will be designed and constructed overhead, all costs related to studies/design/engineering for the underground line will be deducted from the \$75,000 prepayment, and any balance will be returned to the City (or any overage would be paid by the City).

## HL&P PROPOSED POSSIBLE CONDITIONS

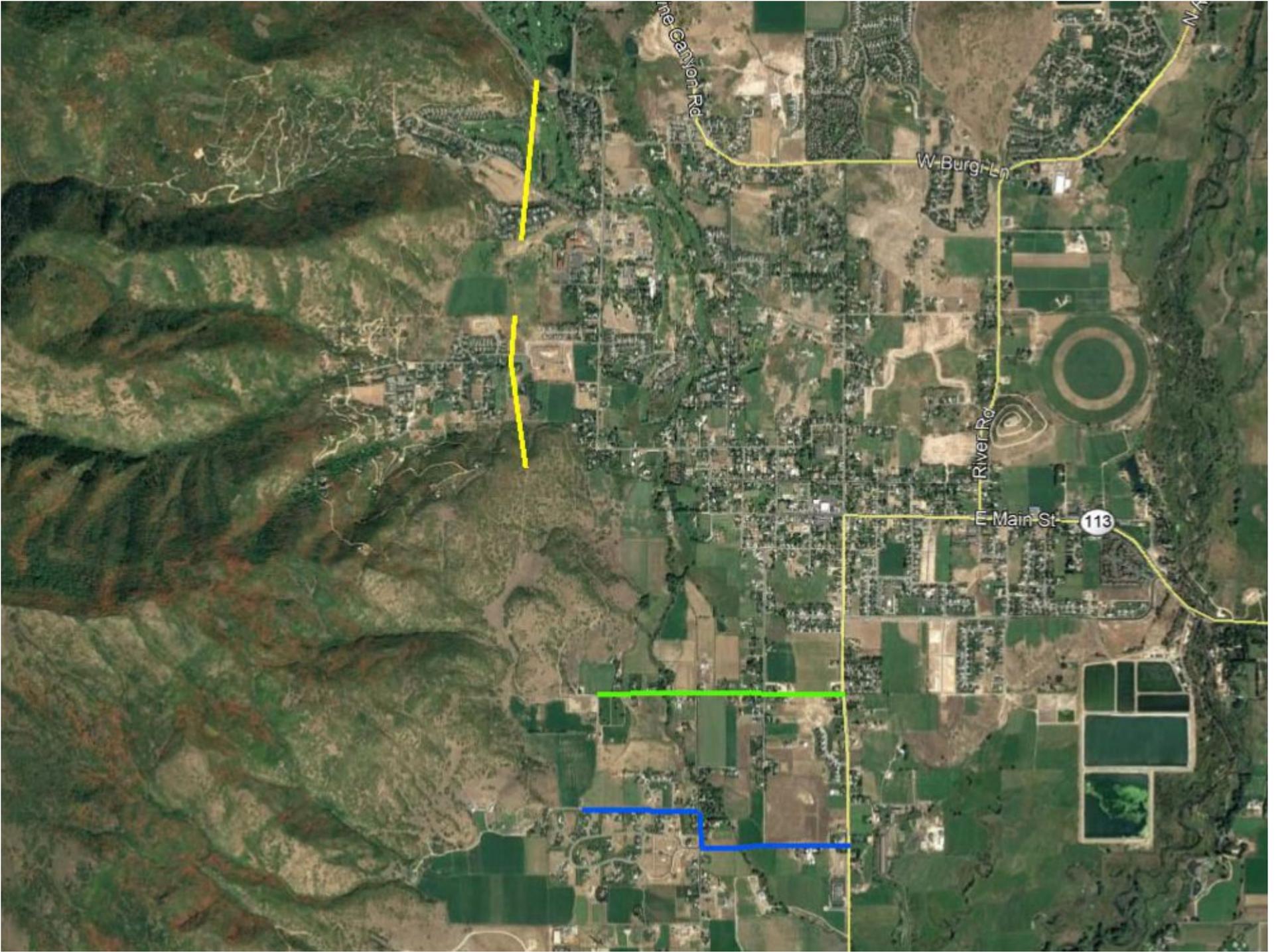
- If the line is constructed underground, the actual costs will be trued-up after construction is completed, and either RMP would refund the overpayment to the City, or the City would pay the difference to RMP. Per our calculations and the results of our third-party appraisal analysis and underground cost study, the estimated excess costs are \$3.8 million (assuming all of the underground line and the dip poles are located within City limits).

# CITY CODE

- Midway adopted a transmission line code on 1-15-2019
- Transmission lines allowed as a conditional use
- Resident concerns
  - Aesthetics
  - Health
  - Property values
  - Potential other options (lack of)

# TRANSMISSION LINES IN MIDWAY

- Judge Line (west of Homestead Drive)
  - Rocky Mountain Power
  - 1 mile
- 500 South
  - Heber Light & Power
  - 0.8 miles
- 970 South
  - Heber Light & Power
  - 1 mile



# SWISS ALPINE



# LIME CANYON



# LIME CANYON



# 500 SOUTH



# 500 SOUTH



# 500 SOUTH



# 970 SOUTH



# 970 SOUTH



# STRINGTOWN ROAD



# STRINGTOWN ROAD



# WARDS LANE



## WARDS LANE 65' POLE



## Stringtown Road 55' Pole



Hwy 113  
Approx. 60'



# 970 South 55' Pole



# WARDS LANE 65'



## Stringtown Road



# 970 South



# TRANSMISSION LINE PROPOSAL

CONDITIONAL USE

# Tangent Pole



# Dead End Pole

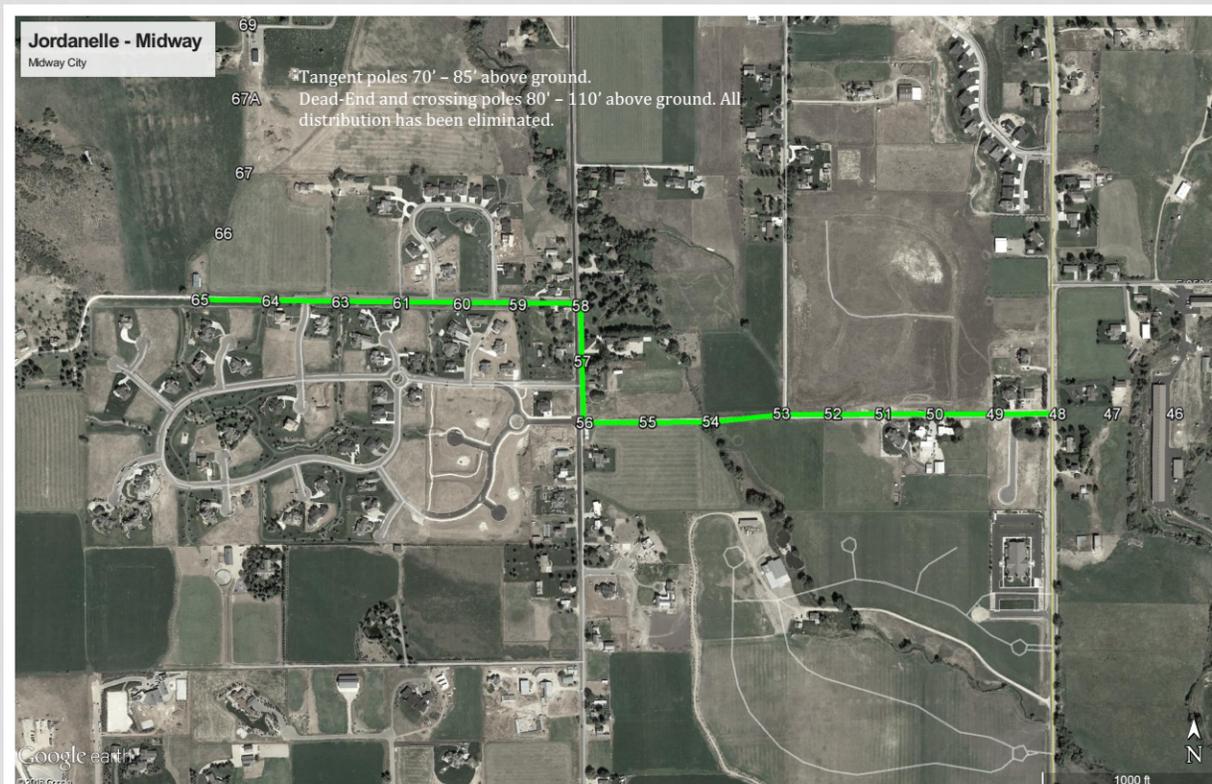


# SUBMITTED DOCUMENTS

- Underground Transmission Cost/Feasibility Study
- Transmission Lines and Property Values: Review of the Research
- EMF Electric and Magnetic Fields Associated with the Use of Electric Power
- Powering Our Future: Summit Wasatch Electrical Plan Local Planning Handbook

# ROUTE

- Section.13.47 (D)(1)
  - Prefers transmission lines follow historic routes
  - Proposal is to follow existing route



# POLE HEIGHT

- Section.13.47 (D)(2)
  - Prefers the shortest poles allowed by industry standards
    - All options should be considered for aesthetics and for harmonizing with the vision of the General Plan
  - Taller poles may reduce the number of poles required
  - Shorter poles may require the most amount of poles
  - Proposal is to replace existing 55'-65' (total length of poles) poles with poles that are 65'- 88' in height
  - All distribution and, possibly, communication lines will be buried

# TYPES OF POLES

- Section.13.47 (D)(3)
  - Limits the types of poles and focuses on the visual impact
    - No galvanized poles or reflective material is allowed
    - Pole color and material will focus on minimizing the visual impact
    - Wood poles or metal poles are both options
      - Wood poles would be taller than metal poles
    - If metal poles are chosen then the City may determine the color
- Section.13.47 (D)(4)
  - Any reasonable conditions may be imposed

# BURIAL OF TRANSMISSION LINES

- Section.13.47 (E)
  - Allows the City to require the burial of transmission lines and distribution lines
    - Application states that distribution and communication lines will be buried
    - If transmission lines area required to be buried
      - Cost must be considered
      - The City or some other source must pay the difference in cost
      - Must be paid within 30 days prior to construction
      - Limited time allowed to pay the difference in cost creates complications that would need to be considered

# BURIAL OF TRANSMISSION LINES

- Two poles are required, one for each transmission line

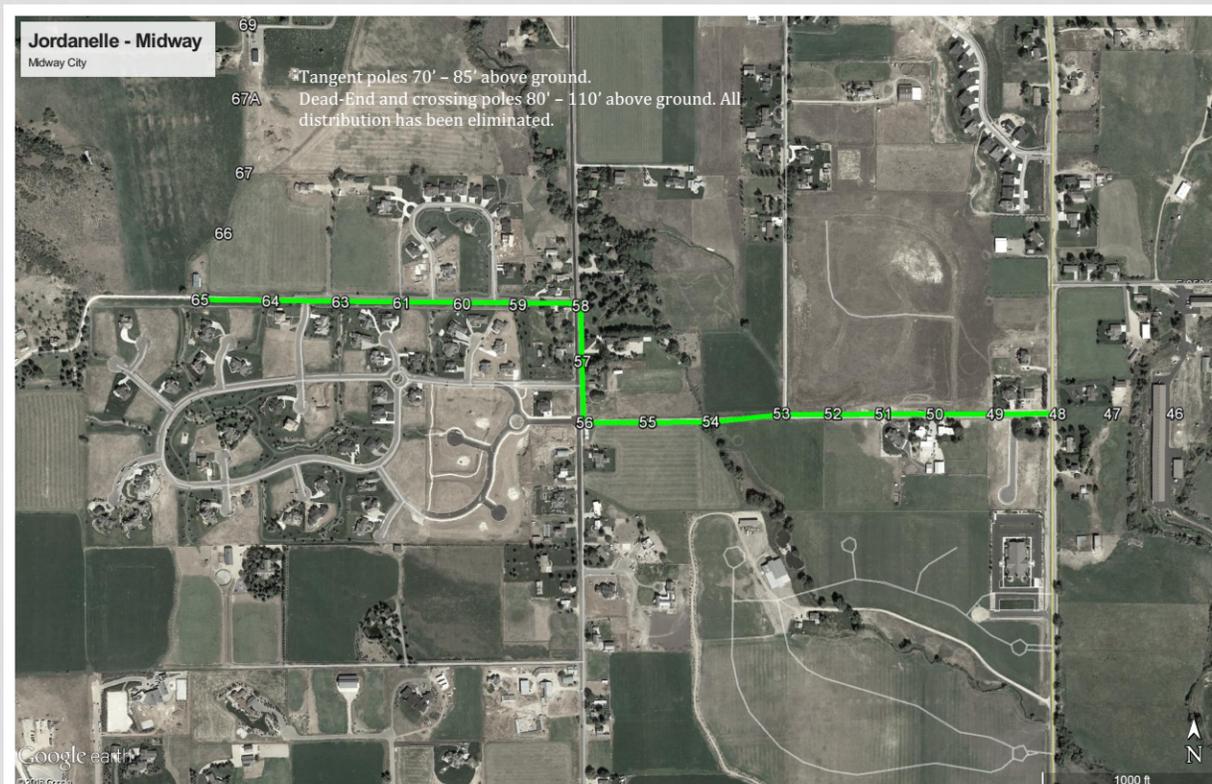


# POLE HEIGHT & NUMBER OF POLES

- Option A
  - 21 poles
  - 65' – 83'
  - 6 steel poles and 15 wood poles
- Option B
  - 16 poles
  - 70' - 85'
  - 6 steel poles and 10 wood poles
- Option B Alternate
  - 16 poles
  - 70' – 88'
  - 7 steel poles and 9 wood poles

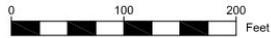
# ALTERNATIVE ROUTE STUDY

- Section.13.47 (D)(1)
  - Prefers transmission lines follow historic routes
  - Proposal is to follow existing route



## PROVIDE COST AND SIZE OF EASEMENTS

	Short Span	Long Span	Underground
Wards Lane	0sf	0sf	134sf
Stringtown Road	1401sf	1729sf	1298sf
970 S. West	4676sf	5489sf	329sf
970 S. East	7046sf	7734sf	813sf
Total	13123	14952	2574
Fee Acre Price	\$ 150,000.00	\$ 150,000.00	\$ 150,000.00
% of Fee	0.5	0.5	0.5
Est. Easement Cost	\$ 22,594.70	\$ 25,743.80	\$ 4,431.82



# JORDANELLE-MIDWAY TRANSMISSION LINE MIDWAY RIGHT-OF-WAY MAP

Section 3, Township 4 South, Range 4 East, SLB&M  
Wasatch County, Utah

## Option A (short spans)

Existing 46kV ROW: 27' from centerline  
138kV ROW: 28.5' from centerline

- LEGEND:**
- PROPERTY LINE
  - - - ROAD RIGHT-OF-WAY LINE
  - PAVED ROAD
  - - - UNPAVED ROAD
  - x-x- FENCE
  - EXISTING POWER LINE
  - EXISTING POLE
  - ├ EXISTING GUY/ANCHOR
  - PROPERTY CORNER MARKER
  - PROPOSED POWER LINE
  - PROPOSED POLE
  - - - EXISTING RIGHT-OF-WAY LINE
  - - - PROPOSED RIGHT-OF-WAY LINE



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Drawing # 17412-Midway-A  
Sheet 1 of 4  
7/05/2019

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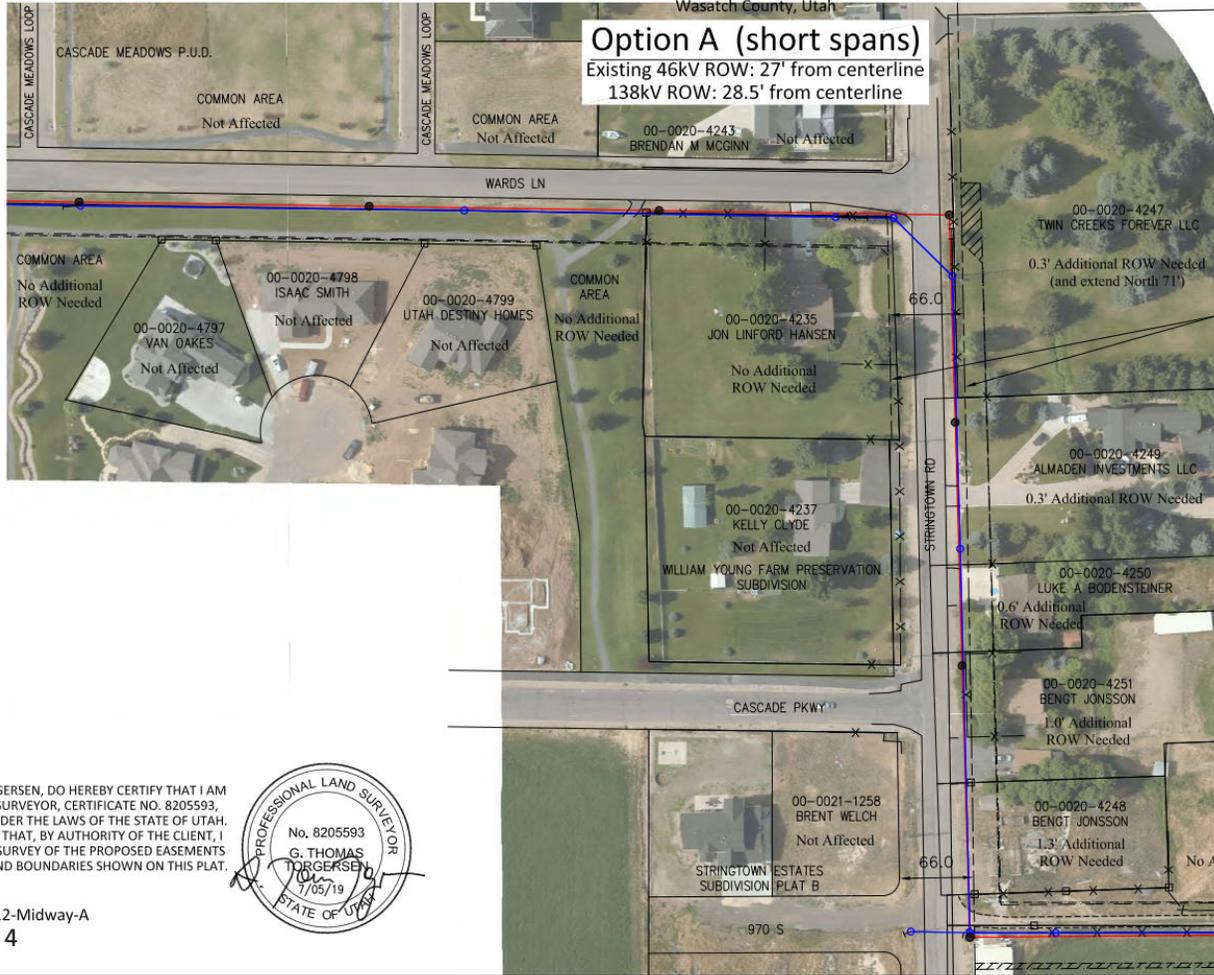
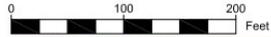
**ROCKY MOUNTAIN POWER**  
A DIVISION OF PACIFICORP

# JORDANELLE-MIDWAY TRANSMISSION LINE MIDWAY RIGHT-OF-WAY MAP

Section 3, Township 4 South, Range 4 East, SLB&M  
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  - - - - UNPAVED ROAD
  - x-x- FENCE
  - EXISTING POWER LINE
  - EXISTING POLE
  - ├ EXISTING GUY/ANCHOR
  - PROPERTY CORNER MARKER
  - PROPOSED POWER LINE
  - PROPOSED POLE
  - - - - EXISTING RIGHT-OF-WAY LINE
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Stringtown Road right-of-way lines based on 33' half-width from centerline (Typ.)

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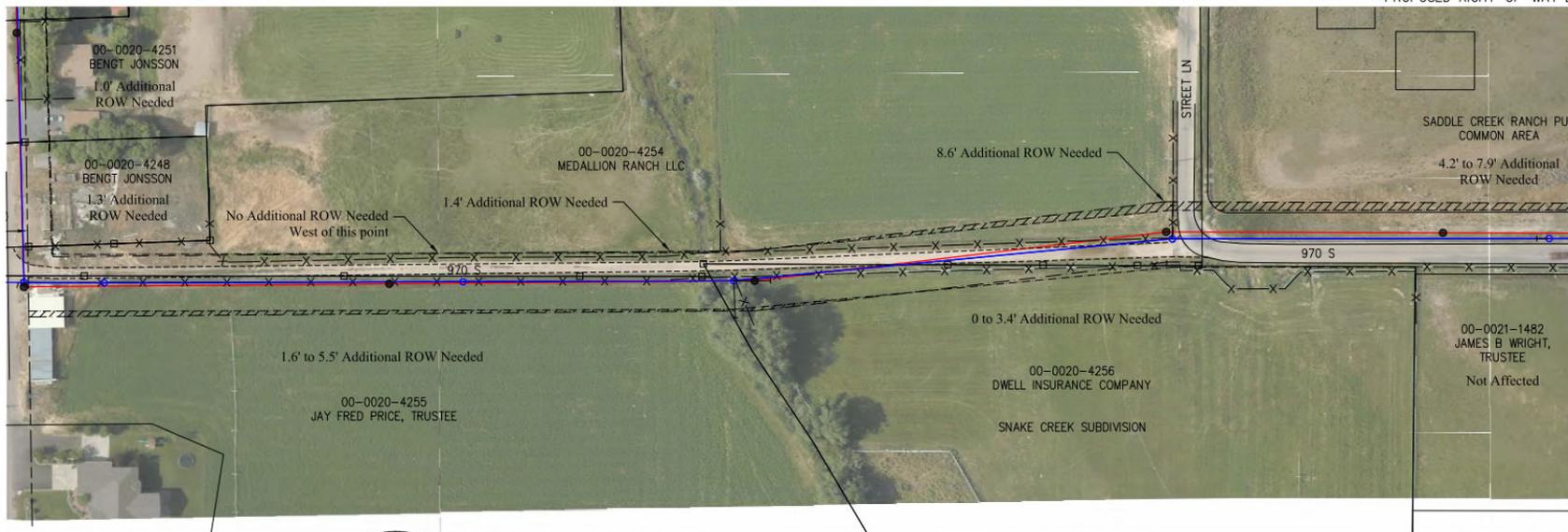
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  - x-x- FENCE
  - EXISTING POWER LINE
  - o EXISTING POLE
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  - PROPOSED POWER LINE
  - PROPOSED POLE
  - - - EXISTING RIGHT-OF-WAY LINE
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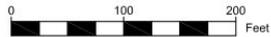
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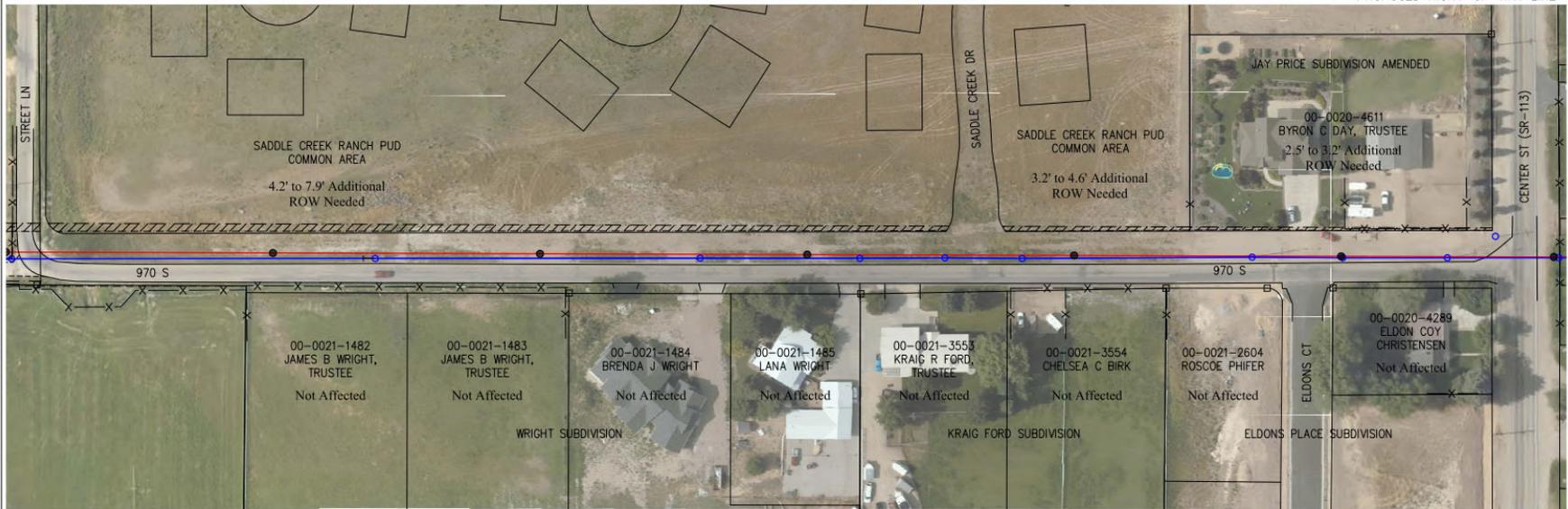
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Wasatch County, Utah

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- PROPERTY LINE
  - - - - - ROAD RIGHT-OF-WAY LINE
  - PAVED ROAD
  - - - - - UNPAVED ROAD
  - x-x- FENCE
  - EXISTING POWER LINE
  - EXISTING POLE
  - T EXISTING GUY/ANCHOR
  - PROPERTY CORNER MARKER
  - PROPOSED POWER LINE
  - PROPOSED POLE
  - - - - - EXISTING RIGHT-OF-WAY LINE
  - - - - - PROPOSED RIGHT-OF-WAY LINE



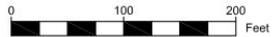
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# JORDANELLE-MIDWAY TRANSMISSION LINE MIDWAY RIGHT-OF-WAY MAP

Section 3, Township 4 South, Range 4 East, SLB&M  
Wasatch County, Utah

## Option B (long spans)

Existing 46kV ROW: 27' from centerline

138kV ROW: 29' from centerline

- LEGEND:**
- PROPERTY LINE
  - - - - - ROAD RIGHT-OF-WAY LINE
  - PAVED ROAD
  - - - - - UNPAVED ROAD
  - x - x - FENCE
  - EXISTING POWER LINE
  - EXISTING POLE
  - ├ EXISTING GUY/ANCHOR
  - PROPERTY CORNER MARKER
  - PROPOSED POWER LINE
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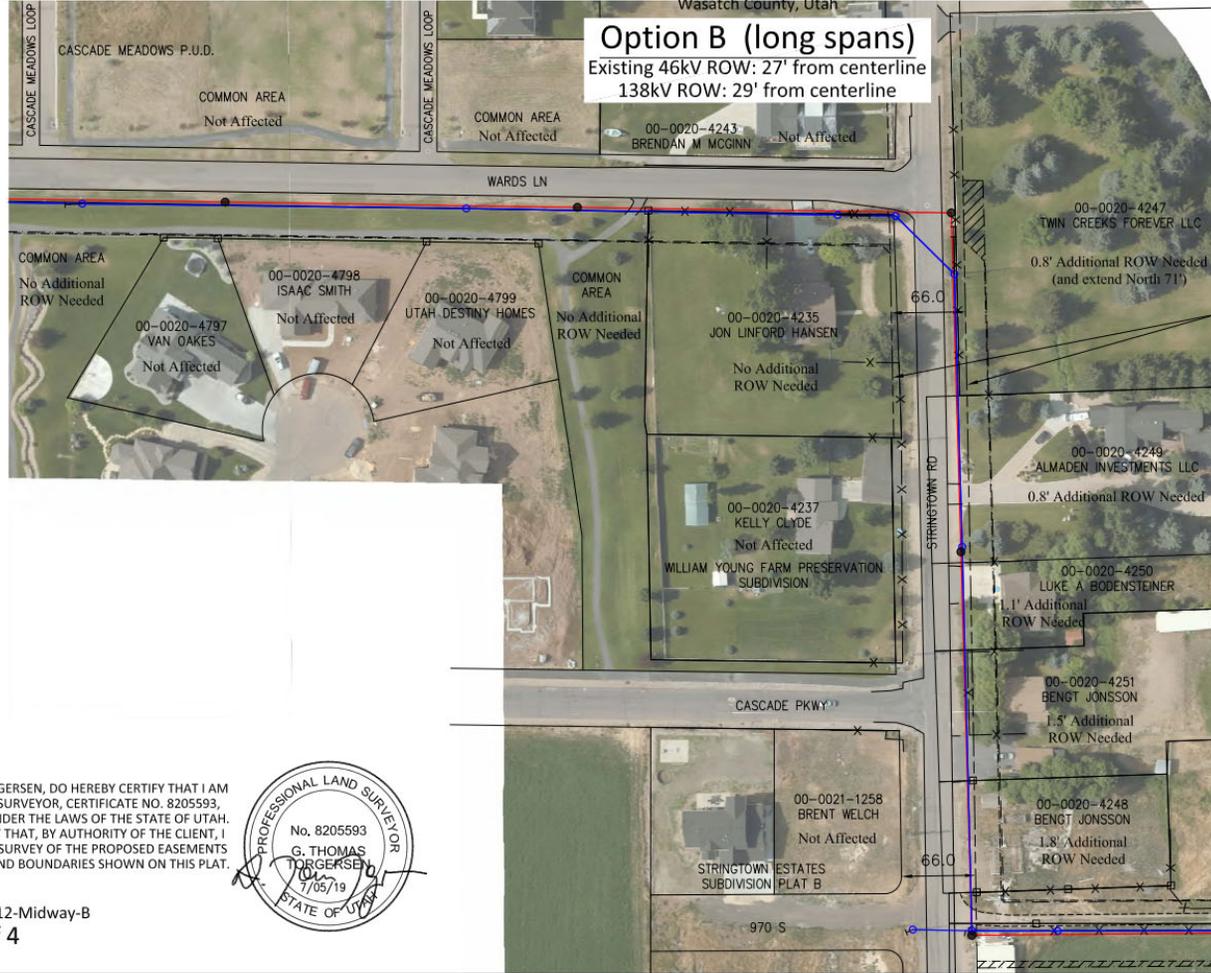
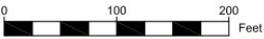
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# JORDANELLE-MIDWAY TRANSMISSION LINE MIDWAY RIGHT-OF-WAY MAP

Section 3, Township 4 South, Range 4 East, SLB&M  
Wasatch County, Utah

## Option B (long spans)

Existing 46kV ROW: 27' from centerline  
138kV ROW: 29' from centerline



- LEGEND:**
- PROPERTY LINE
  - - - ROAD RIGHT-OF-WAY LINE
  - PAVED ROAD
  - - - UNPAVED ROAD
  - x x FENCE
  - EXISTING POWER LINE
  - o EXISTING POLE
  - EXISTING GUY/ANCHOR
  - PROPERTY CORNER MARKER
  - PROPOSED POWER LINE
  - PROPOSED POLE
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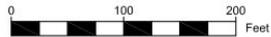
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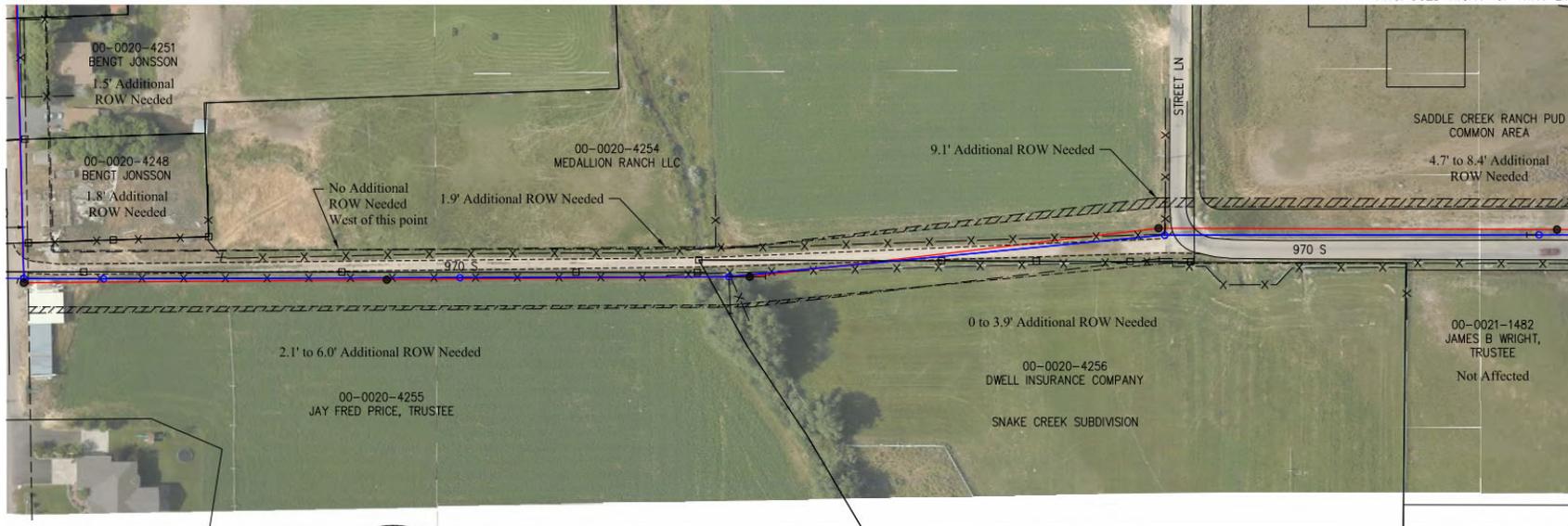
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Wasatch County, Utah

## Option B (long spans)

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138kV ROW: 29' from centerline

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- PROPERTY LINE
  - - - ROAD RIGHT-OF-WAY LINE
  - PAVED ROAD
  - - - UNPAVED ROAD
  - x-x- FENCE
  - EXISTING POWER LINE
  - o EXISTING POLE
  - EXISTING GUY/ANCHOR
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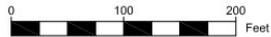
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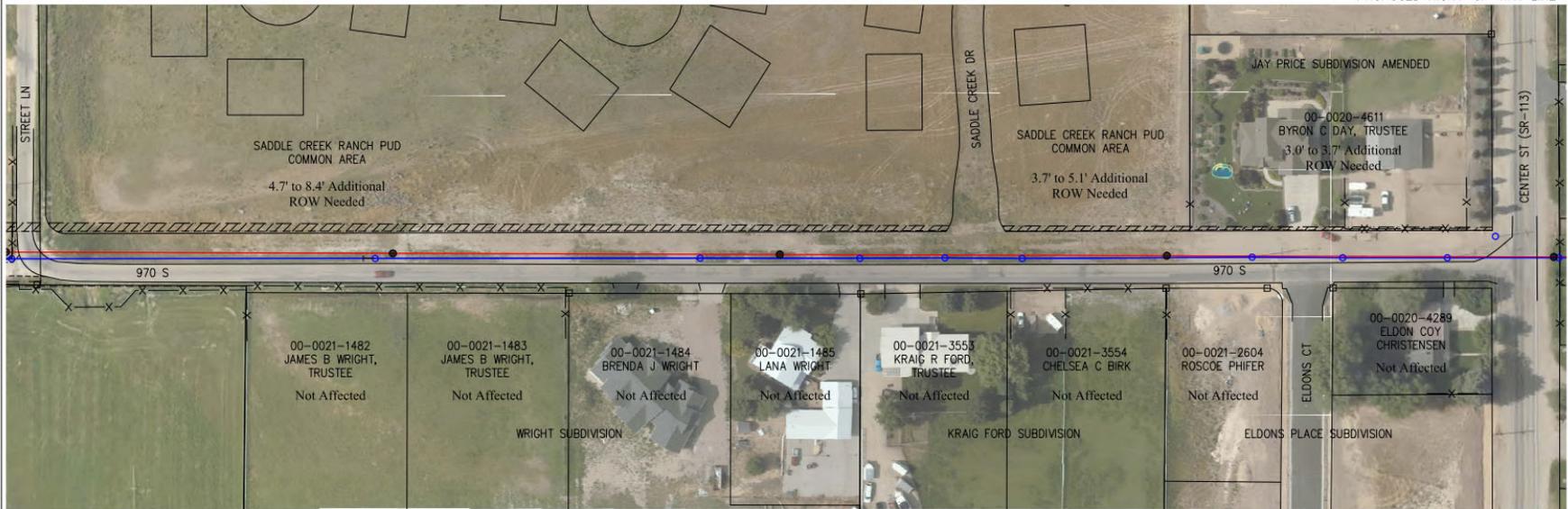
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Section 3, Township 4 South, Range 4 East, SLB&M  
Wasatch County, Utah

## Option B (long spans)

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138kV ROW: 29' from centerline

- LEGEND:**
- PROPERTY LINE
  - - - - - ROAD RIGHT-OF-WAY LINE
  - PAVED ROAD
  - - - - - UNPAVED ROAD
  - x-x- FENCE
  - EXISTING POWER LINE
  - EXISTING POLE
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  - PROPOSED POLE
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  - - - - - PROPOSED RIGHT-OF-WAY LINE



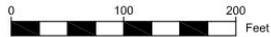
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**ROCKY MOUNTAIN POWER**  
A DIVISION OF PACIFICORP



# JORDANELLE-MIDWAY TRANSMISSION LINE MIDWAY RIGHT-OF-WAY MAP

Section 3, Township 4 South, Range 4 East, SLB&M  
Wasatch County, Utah

## Option C (Underground)

Existing 46kV ROW: 27' from centerline  
138kV Underground ROW: 15' from centerline and 30'x80' for vaults

LEGEND:	
	PROPERTY LINE
	ROAD RIGHT-OF-WAY LINE
	PAVED ROAD
	UNPAVED ROAD
	FENCE
	EXISTING POWER LINE
	EXISTING POLE
	EXISTING GUY/ANCHOR
	PROPERTY CORNER MARKER
	PROPOSED POWER LINE
	PROPOSED POLE
	EXISTING RIGHT-OF-WAY LINE
	PROPOSED RIGHT-OF-WAY LINE
	PROPOSED VAULT



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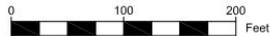


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**ROCKY MOUNTAIN  
POWER**  
A DIVISION OF PACIFICORP





# JORDANELLE-MIDWAY TRANSMISSION LINE MIDWAY RIGHT-OF-WAY MAP

Section 3, Township 4 South, Range 4 East, SLB&M  
Wasatch County, Utah

## Option C (Underground)

Existing 46kV ROW: 27' from centerline  
138kV Underground ROW: 15' from centerline and 30'x80' for vaults

**LEGEND:**

- PROPERTY LINE
- - - ROAD RIGHT-OF-WAY LINE
- PAVED ROAD
- - - UNPAVED ROAD
- x - x - FENCE
- EXISTING POWER LINE
- o EXISTING POLE
- T - EXISTING GUY/ANCHOR
- PROPERTY CORNER MARKER
- PROPOSED POWER LINE
- PROPOSED POLE
- - - EXISTING RIGHT-OF-WAY LINE
- - - PROPOSED RIGHT-OF-WAY LINE
- PROPOSED VAULT



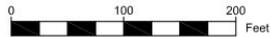
I, G. THOMAS TORGENSEN, DO HEREBY CERTIFY THAT I AM A LICENSED LAND SURVEYOR, CERTIFICATE NO. 8205593, AS PRESCRIBED UNDER THE LAWS OF THE STATE OF UTAH. I FURTHER CERTIFY THAT, BY AUTHORITY OF THE CLIENT, I HAVE DIRECTED A SURVEY OF THE PROPOSED EASEMENTS AND AFFECTED LAND BOUNDARIES SHOWN ON THIS PLAT.



Drawing # 17412-Midway-C  
Sheet 3 of 4  
7/05/2019

PREPARED BY:  
**TORGENSEN ENGINEERING**  
265 North 600 East  
Richfield, Utah 84701  
(435) 893-0081  
www.TorgEng.com

**ROCKY MOUNTAIN POWER**  
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# JORDANELLE-MIDWAY TRANSMISSION LINE MIDWAY RIGHT-OF-WAY MAP

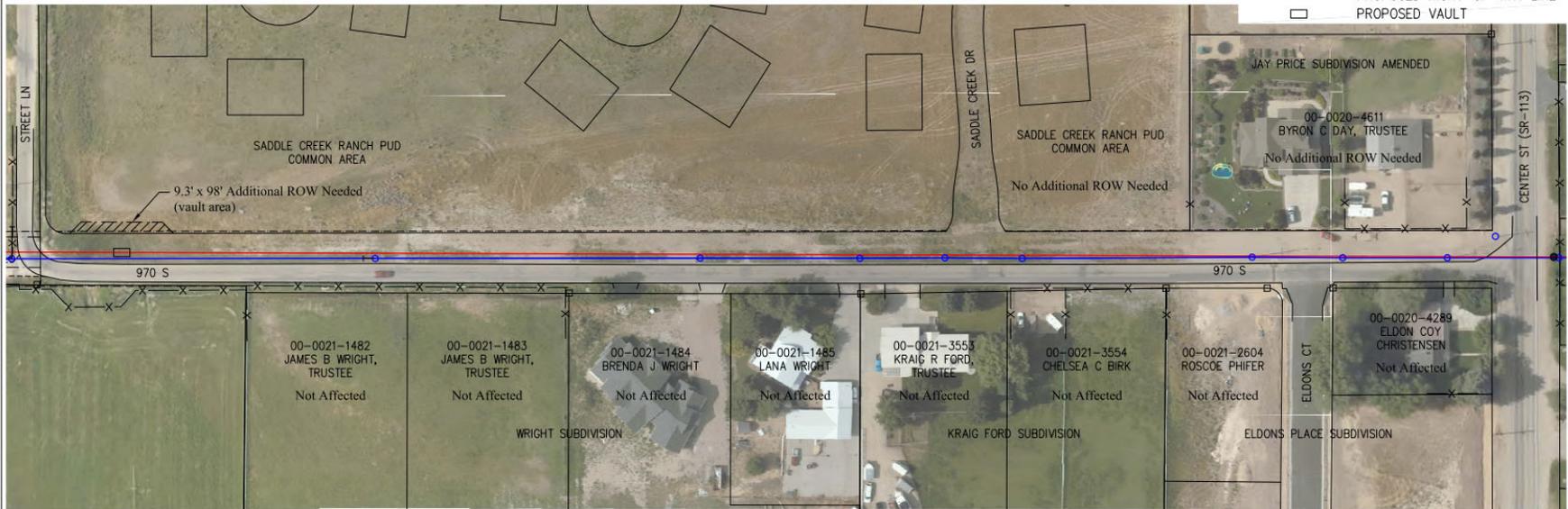
Section 3, Township 4 South, Range 4 East, SLB&M  
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●	PROPOSED POLE
- - -	EXISTING RIGHT-OF-WAY LINE
- - -	PROPOSED RIGHT-OF-WAY LINE
□	PROPOSED VAULT



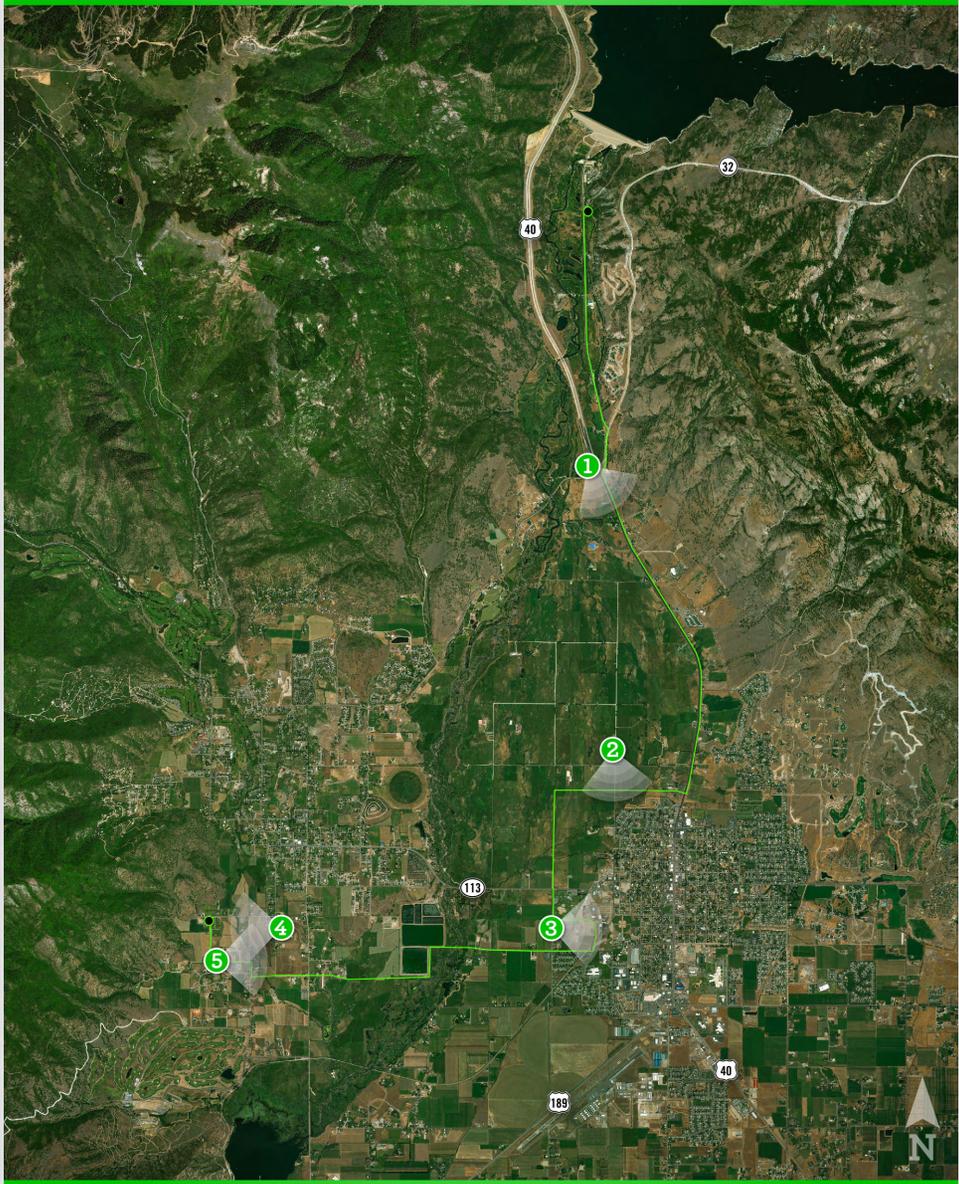
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Drawing # 17412-Midway-C  
Sheet 4 of 4  
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— TRANSMISSION LINE TO BE REBUILT

① VIEWPOINT LOCATION

● SUBSTATION

# JORDANELLE TO MIDWAY TRANSMISSION LINE UPGRADE PROJECT

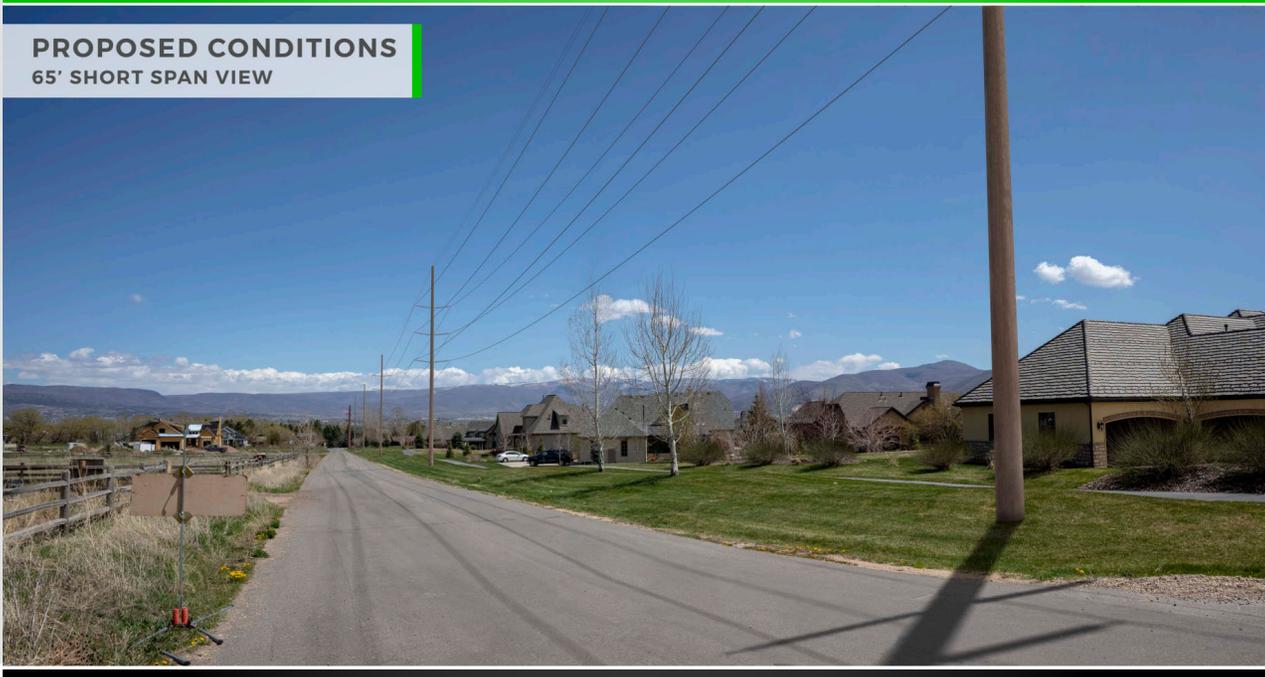


PHOTO SIMULATION BY  
**POWER ENGINEERS**

**EXISTING CONDITIONS**



**PROPOSED CONDITIONS**  
65' SHORT SPAN VIEW



**EXISTING CONDITIONS**



**PROPOSED CONDITIONS**  
70' LONG SPAN VIEW



**PROPOSED CONDITIONS**  
65' SHORT SPAN VIEW



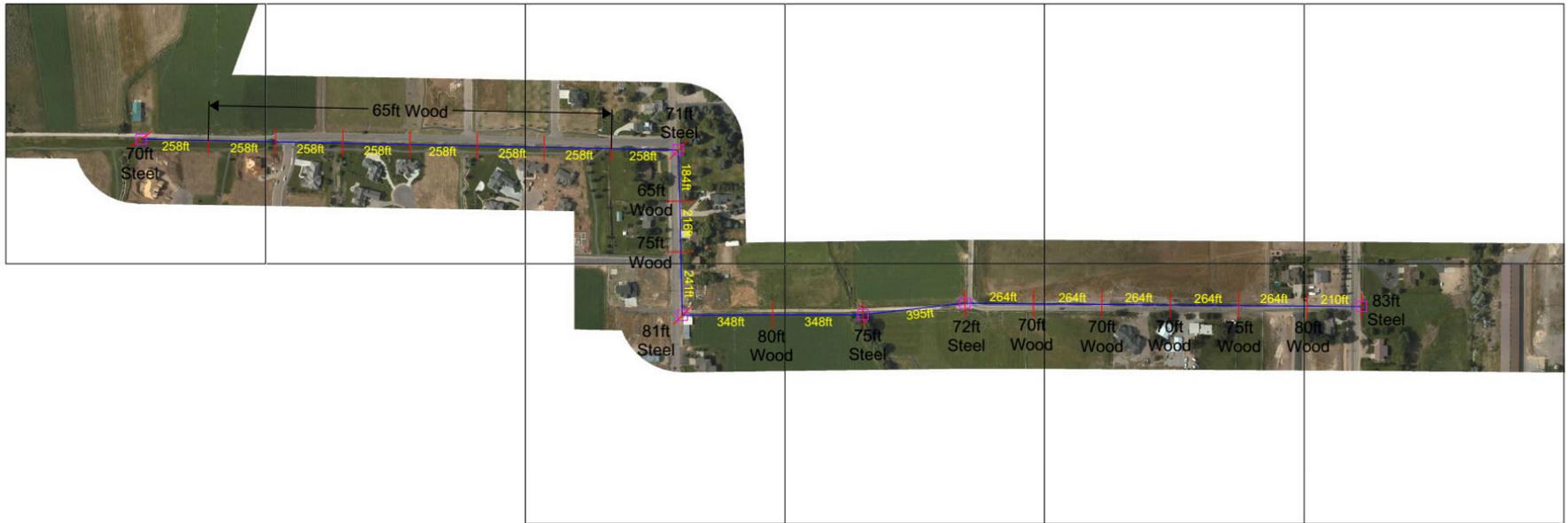
**PROPOSED CONDITIONS**  
70' LONG SPAN VIEW



Typical Span Lengths Proposal  
Span Length: 300ft - 395ft  
16 Total Structures  
Structure Height Above Ground:  
70ft - 85ft



Reduced Pole Height Proposal  
Span Length: 185ft - 395ft  
21 Total Structures  
Structure Height Above Ground:  
65ft - 83ft



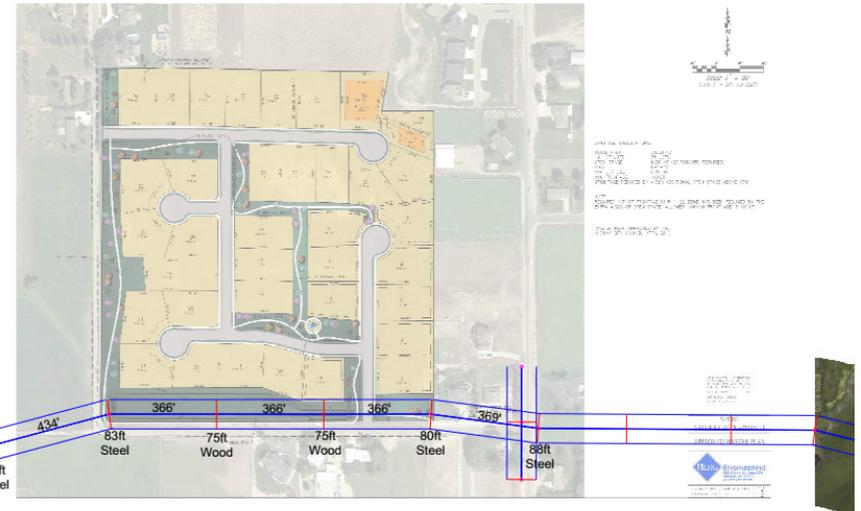
# LONG & SHORT SPAN OPTIONS

		970 S (Center - 250 W)						970 S (250 W - Stringtown)			Stringtown (970 S - Wards Lane)			Wards Lane (Stringtown - County)								
Short Span / Shorter Poles	Structure Number	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20	# 21
	Pole Height (Feet)	83	80	75	70	70	70	72	75	80	81	75	65	71	65	65	65	65	65	65	65	70
	Pole Material	Steel	Wood	Wood	Wood	Wood	Wood	Steel	Steel	Wood	Steel	Wood	Wood	Steel	Wood	Wood	Wood	Wood	Wood	Wood	Wood	Steel
	Span (Feet)	210	264	264	264	264	264	395	348	348	241	216	184	258	258	258	258	258	258	258	258	Steel
Long Span / Taller Poles	Structure Number	# 1	# 2	# 3	# 4			# 5	# 6	# 7	# 8	# 9		# 10	# 11	# 12	# 13	# 14	# 15	# 16		
	Pole Height (Feet)	85	80	75	75			72	75	80	81	75		73	75	75	75	75	75	70		
	Pole Material	Steel	Wood	Wood	Wood			Steel	Steel	Wood	Steel	Wood		Steel	Wood	Wood	Wood	Wood	Wood	Steel		
	Span (Feet)	382	382	382	382			395	348	348	340	301		333	313	331	343	390	355			
Long Span / Taller Poles / 970 Road	Structure Number	# 1	# 2	# 3	# 4			# 5	# 6	# 7	# 8	# 9		# 10	# 11	# 12	# 13	# 14	# 15	# 16		
	Pole Height (Feet)	88	80	75	75			83	78	80	80	75		73	75	75	75	75	75	70		
	Pole Material	Steel	Steel	Wood	Wood			Steel	Steel	Wood	Steel	Wood		Steel	Wood	Wood	Wood	Wood	Wood	Steel		
	Span (Feet)	369	366	366	366			434	366	366	369	302		333	313	331	343	390	355			

Longer Span Summary:	Long span results in two (2) fewer poles that are 0' - 5' taller.	Both designs are identical.	Long span results in one (1) fewer pole that is 0' - 10' taller.	Long span results in two (2) fewer poles that are 0' - 10' taller.
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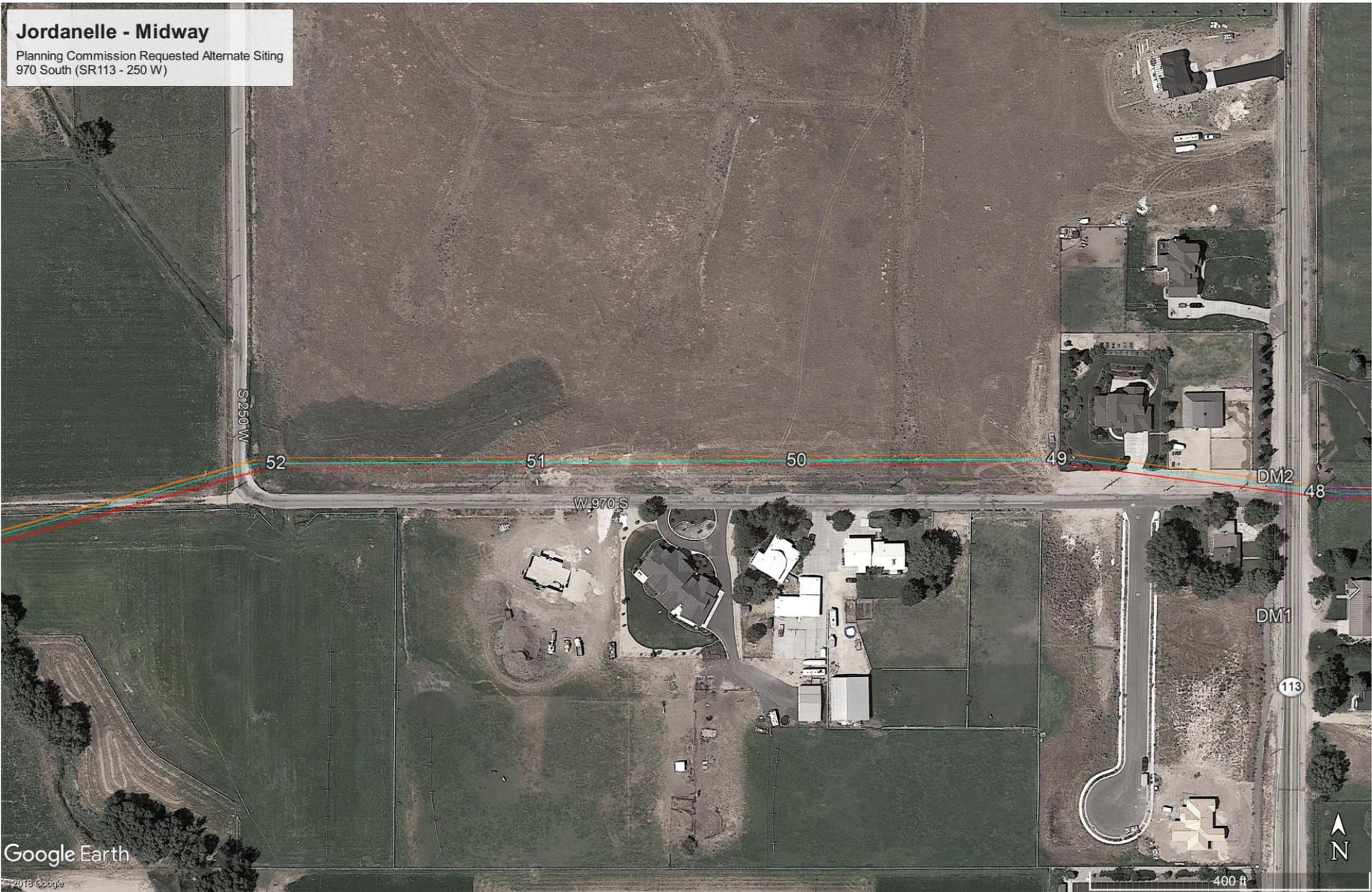
970 South Road Span Summary:	Long span results in two (2) fewer poles that are 0' - 5' taller and one (1) more steel pole.	Both designs are identical.	Long span results in one (1) fewer pole that is 0' - 10' taller.	Long span results in two (2) fewer poles that are 0' - 10' taller.
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# OPTION B - ALTERNATE



# Jordanelle - Midway

Planning Commission Requested Alternate Siting  
970 South (SR113 - 250 W)



Google Earth

© 2018 Google

400 ft

# Jordanelle - Midway

Planning Commission Requested Alternate Siting  
970 South (250 W - Stringtown)



Google Earth

© 2018 Google

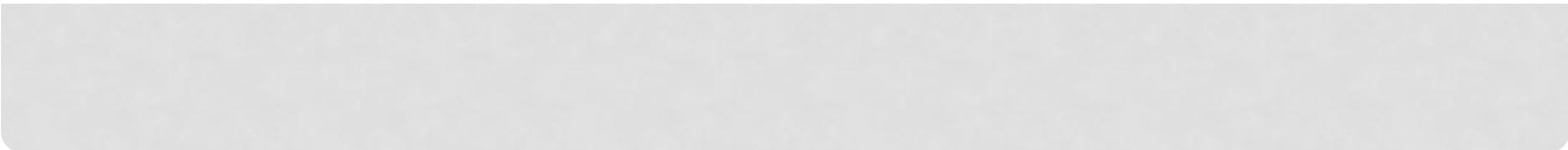
400 ft



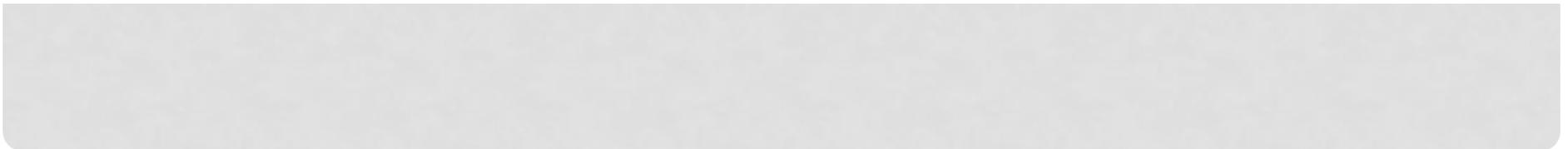
# Metal Finishes: Self-Weathering Steel



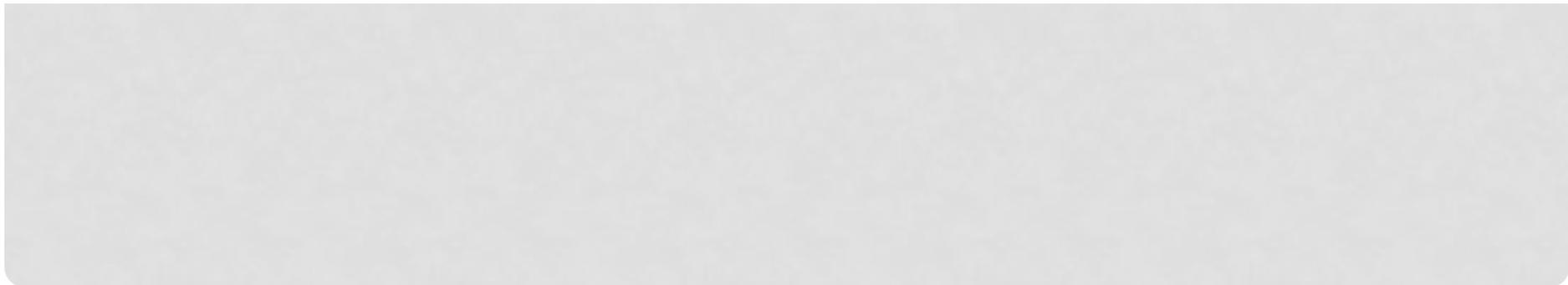
# Metal Finishes: Galvanized Steel



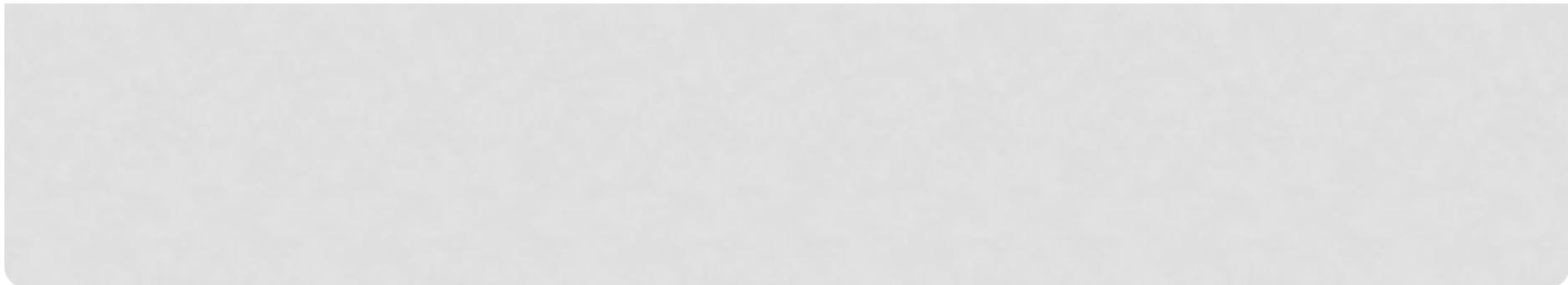
# Metal Finishes: Dulled Galvanized Steel



# 46kV – 138kV Rights-of-Way with Vegetation



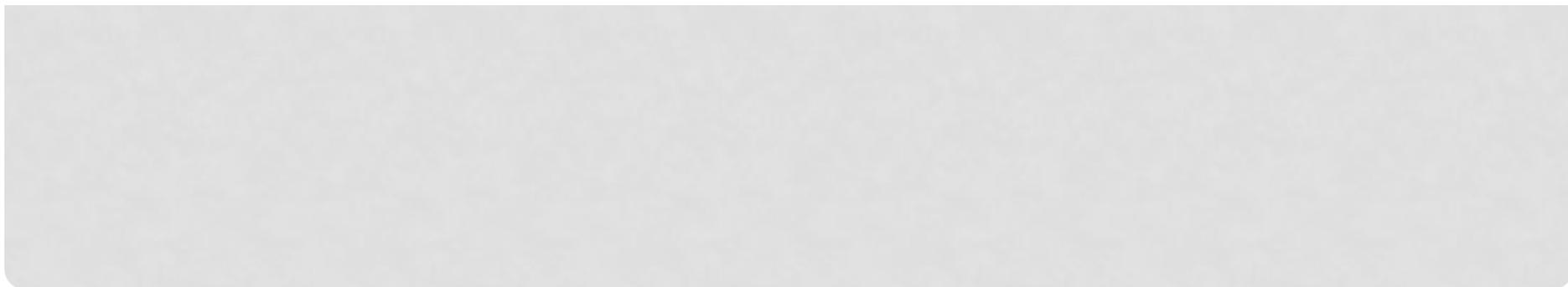
# 46kV – 138kV Rights-of-Way with Vegetation



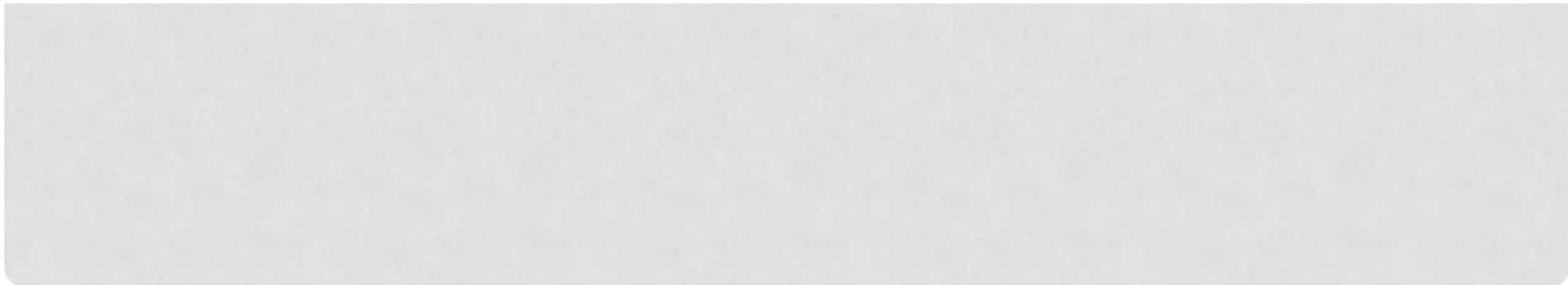
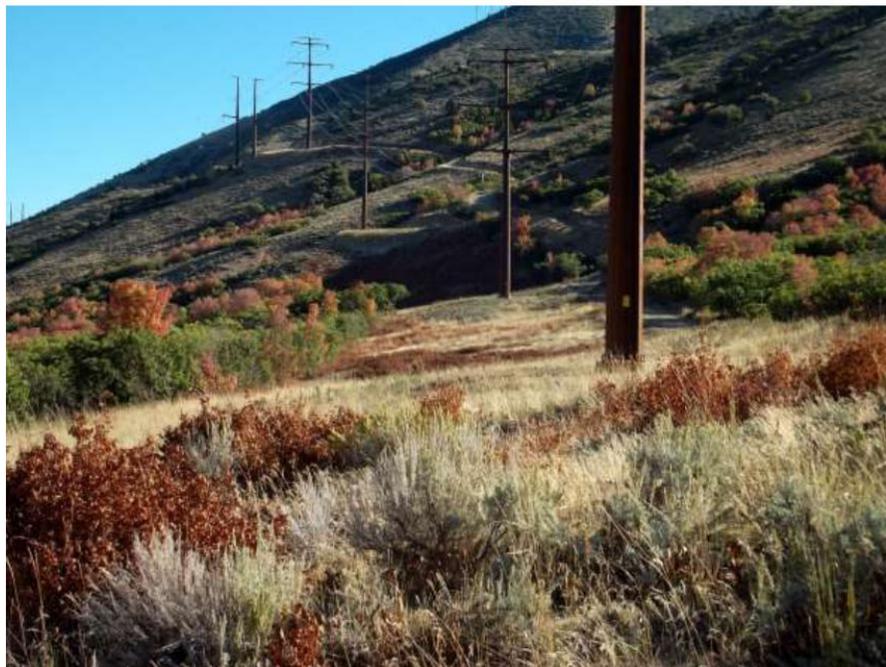
# 46kV – 138kV Rights-of-Way with Vegetation



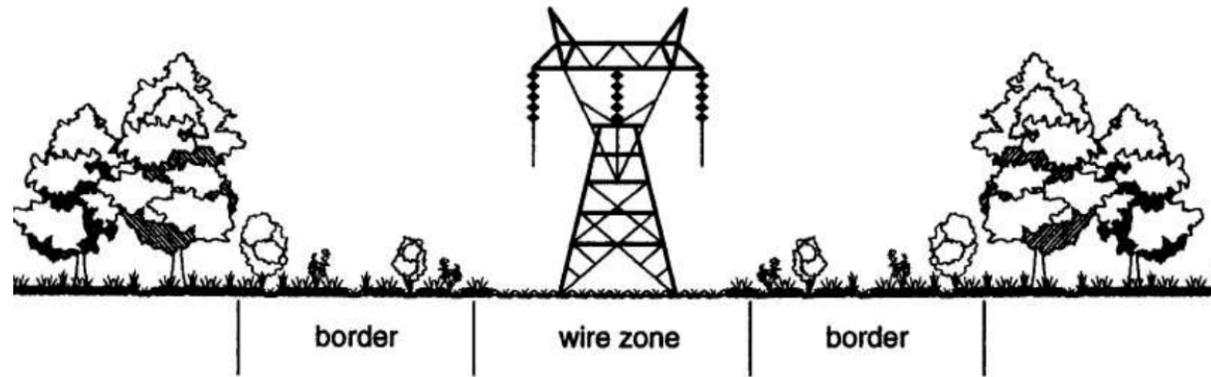
# 46kV – 138kV Rights-of-Way with Vegetation



# 345kV Rights-of-Way with Vegetation



## Bramble & Byrnes Right-of-Way Method



# POSSIBLE FINDINGS

- The proposal is an administrative review and approval
- The proposed use is a conditional use and the city may impose reasonable conditions to mitigate identified issues
- The proposal includes taller poles that will be visible to the residents of Midway, visitors of Midway, and the surrounding residents of Wasatch County
- The distribution and possibly communication lines will be buried to help declutter the current transmission line situation, and reduce the weight being carried by the poles, thus reducing poles in the area
- The proposal will create a second point of power access that will benefit the residents of the valley
- The proposal will allow more power to enter the valley that will benefit the entire community by meeting community needs

# PROPOSED CONDITIONS

As the review process continues, conditions will be created based on public comment, Planning Commission discussion, and City Council discussion.

