

Bavarian Substation Feasibility Report - Findings & Recommendation

Board of Commission Update

July 10, 2017

Today's Agenda

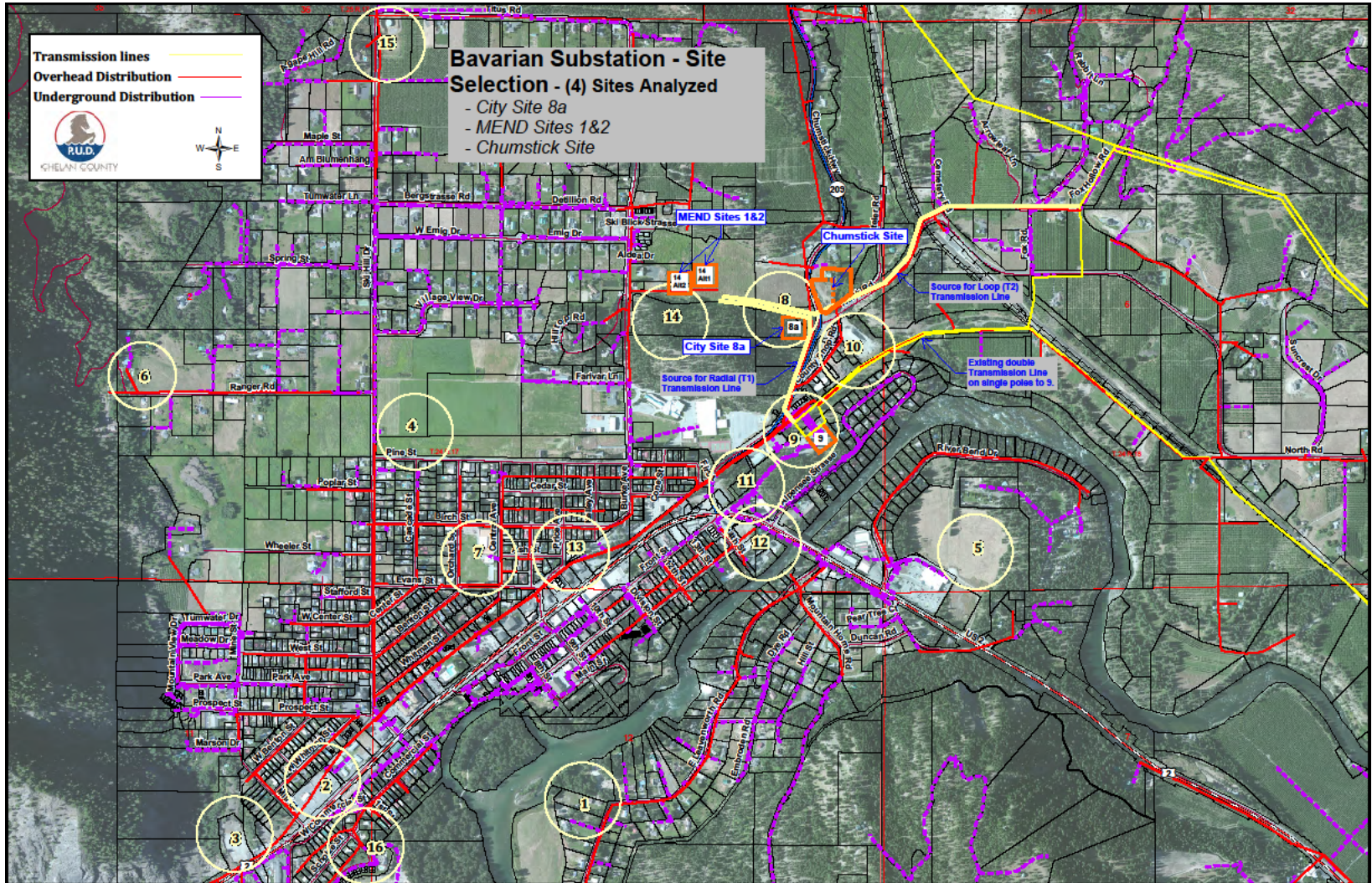
- Overview of Bavarian Substation Sites
- Feasibility Report Findings
- Recommendation – No action requested
- Review next steps and timeline

Review

- **March 6th Board meeting**
 - Review initial engineering and costs comparisons for three sites: (*CCPUD Site 9, City Site 8a, MEND Site 14*)
 - Stakeholder feedback and Leavenworth Focus Group supports Site 14, and Site 8a if Site 14 does not advance; Two sites moving forward
- **March 20th Board meeting**
 - Review power line easement rights
 - Continuing discussions and learning with both City of Leavenworth officials and representatives from owner of Site 14 (MEND)
- **May 1st Board meeting**
 - Staff recommends purchase of Chumstick Site, located near Site 8a, due to recent availability and desirable site access attributes
 - Board authorizes purchase of Chumstick Site and approved it as the preferred alternative
 - Staff to proceed with consultant analysis of all three sites

Summary

- Sixteen areas were initially identified and four sites were analyzed by Consultant Feasibility Evaluation
- Consultant Feasibility Evaluation recommends the Chumstick Site as the preferred alternative, which is consistent with the Leavenworth Focus Group and Board endorsements of Chumstick Site
- District staff recommends selection of the Chumstick site as the preferred alternative
- Next steps would include proceeding with permit level design, initiating the Conditional Use Permit (CUP) process, and further evaluation of transmission routing



Bavarian Substation - Feasibility Report Findings

July 10, 2017

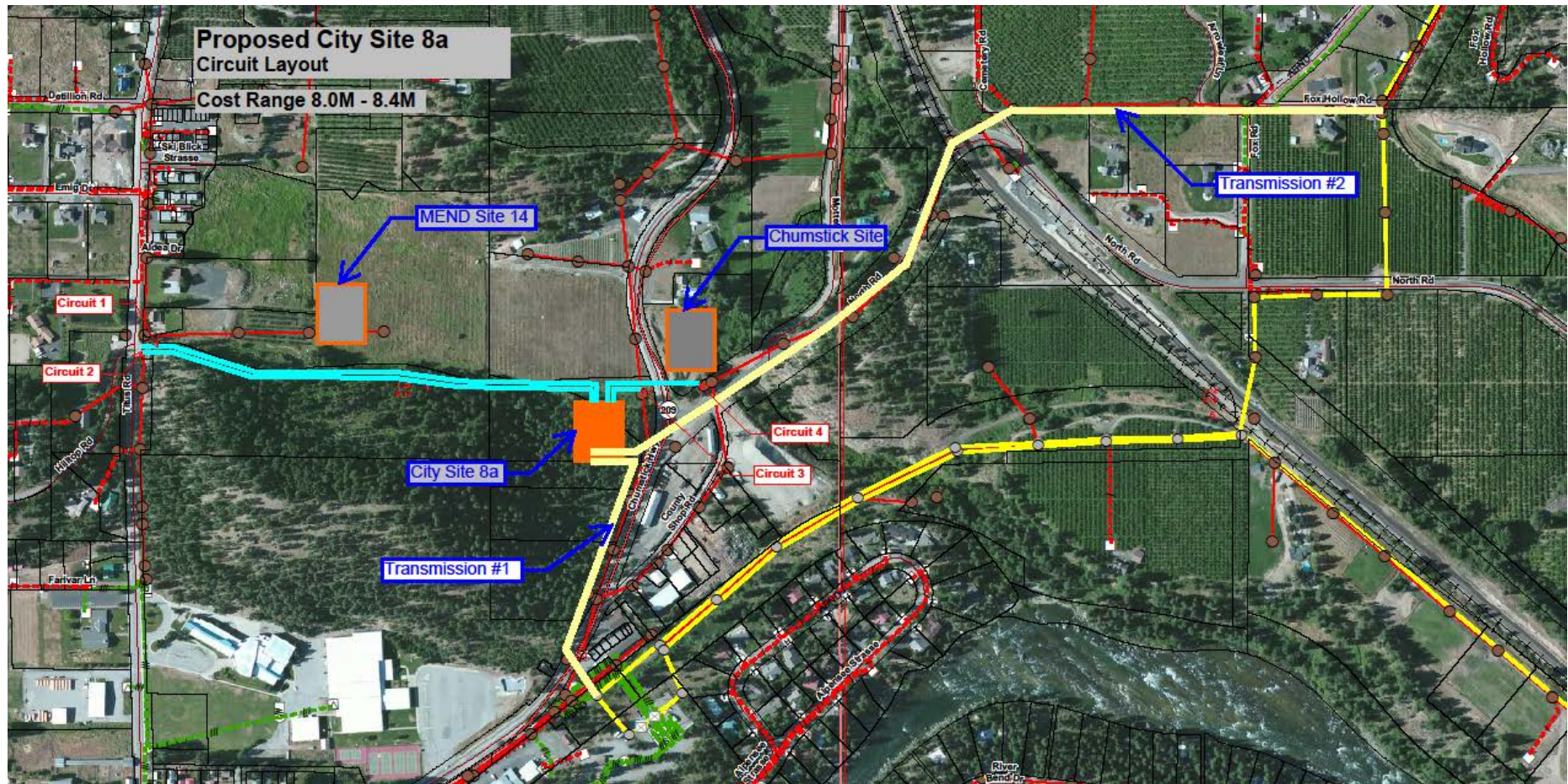
	City Site 8a		MEND Site 14-Alt 1		MEND Site 14-Alt2		Chumstick	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
Earthwork Costs	1,750,000	1,750,000	2,010,000	2,310,000	2,010,000	2,310,000	870,000	870,000
Substation Costs	3,510,000	3,560,000	3,510,000	3,560,000	3,500,000	3,550,000	3,430,000	3,500,000
Distribution Costs	1,180,000	1,230,000	1,340,000	1,390,000	1,520,000	1,570,000	790,000	1,200,000
Transmission Costs	1,560,000	1,830,000	2,170,000	2,550,000	2,060,000	2,410,000	1,410,000	1,600,000
Total Costs	8,000,000	8,370,000	9,030,000	9,810,000	9,090,000	9,840,000	6,500,000	7,170,000
Range*	8.0M to 8.4M		9.0M to 9.8M		9.1M to 9.8M		6.5M to 7.2M	

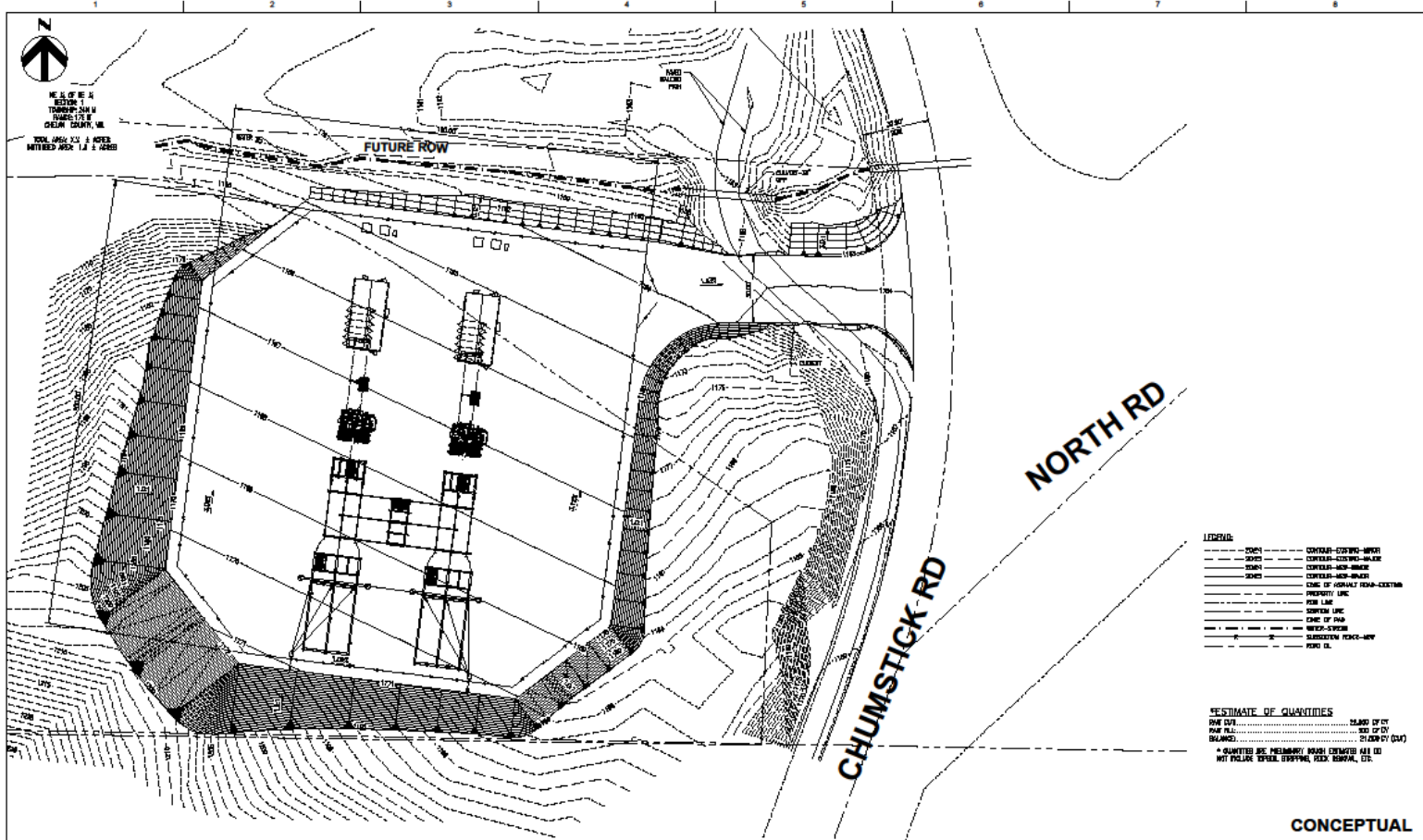
** Components of Range*

- Access Road Allowance	0	X	X	0
- Groundwater Mitigation	0	X	X	0
- Deferred Circuit 1	0	0	0	X
- Trenching Rock Excavation	X	X	X	X
- CUP Req'd Landscaping	X	X	X	X
- Transmission Routing	X	X	X	X

Proposed City Site 8a Circuit Layout

Cost Range 8.0M - 8.4M





ESTIMATE OF QUANTITIES

ROAD SURF SQ. YD. OF 12"
 BASE SQ. YD. OF 6"
 BALANCE CUBIC YD. OF CUT
 FILL

* QUANTITIES ARE PRELIMINARY AND ESTIMATES ARE TO NOT INCLUDE SPECIAL EQUIPMENT, PERMITS, ETC.

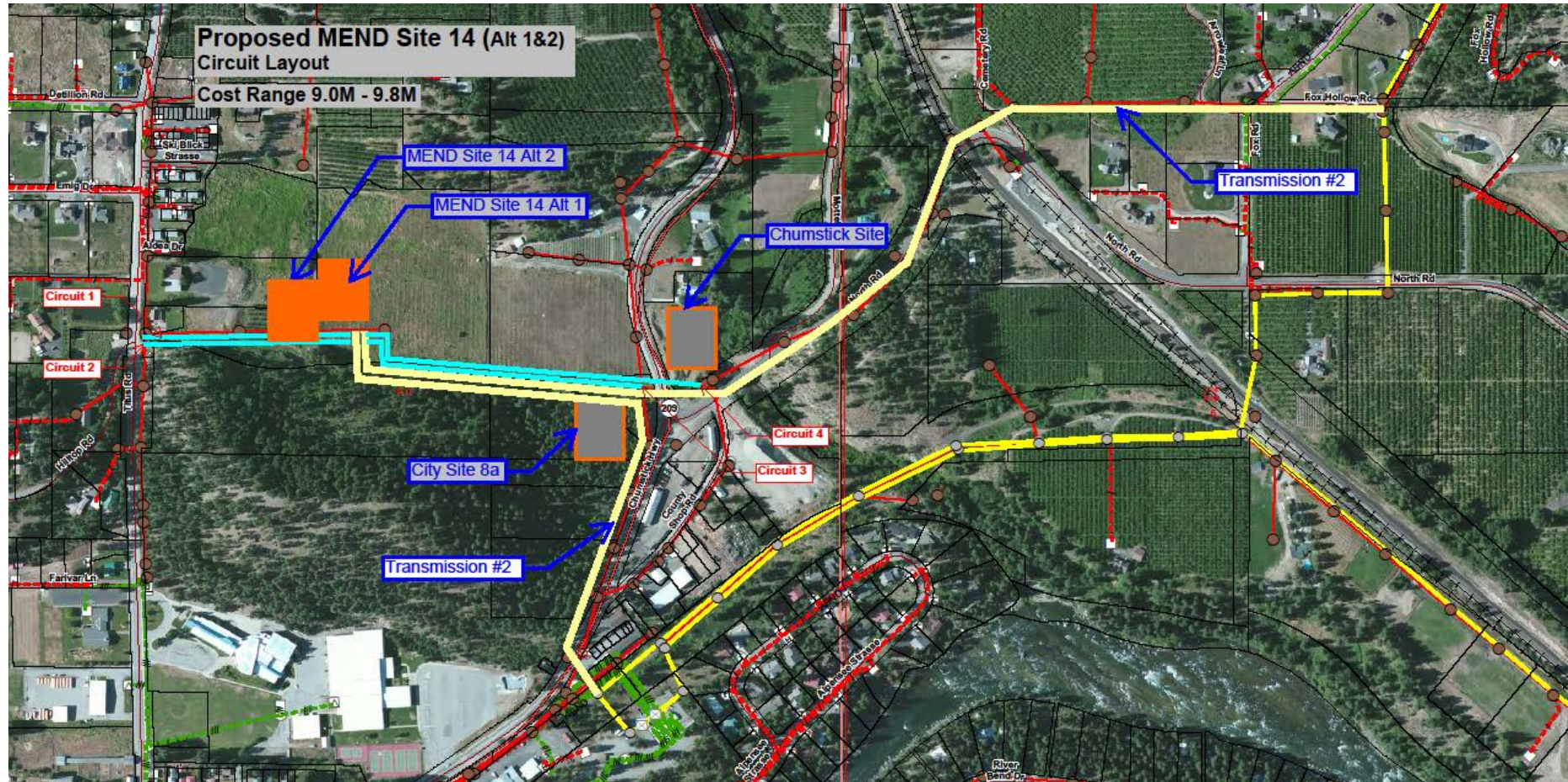
HDR		PROJECT MANAGER C. WALLACE	CHELAN COUNTY PUBLIC UTILITY DISTRICT	SITE GRADING	
		PROJECT ENGINEER D. MELIA		GRADING-RATTLESNAKE HILL	
				LEAVENWORTH SUBSTATION	
		PROJECT NUMBER 10044201		FILENAME 07L-07-01	SHEET GP
			SCALE 1" = 20'		

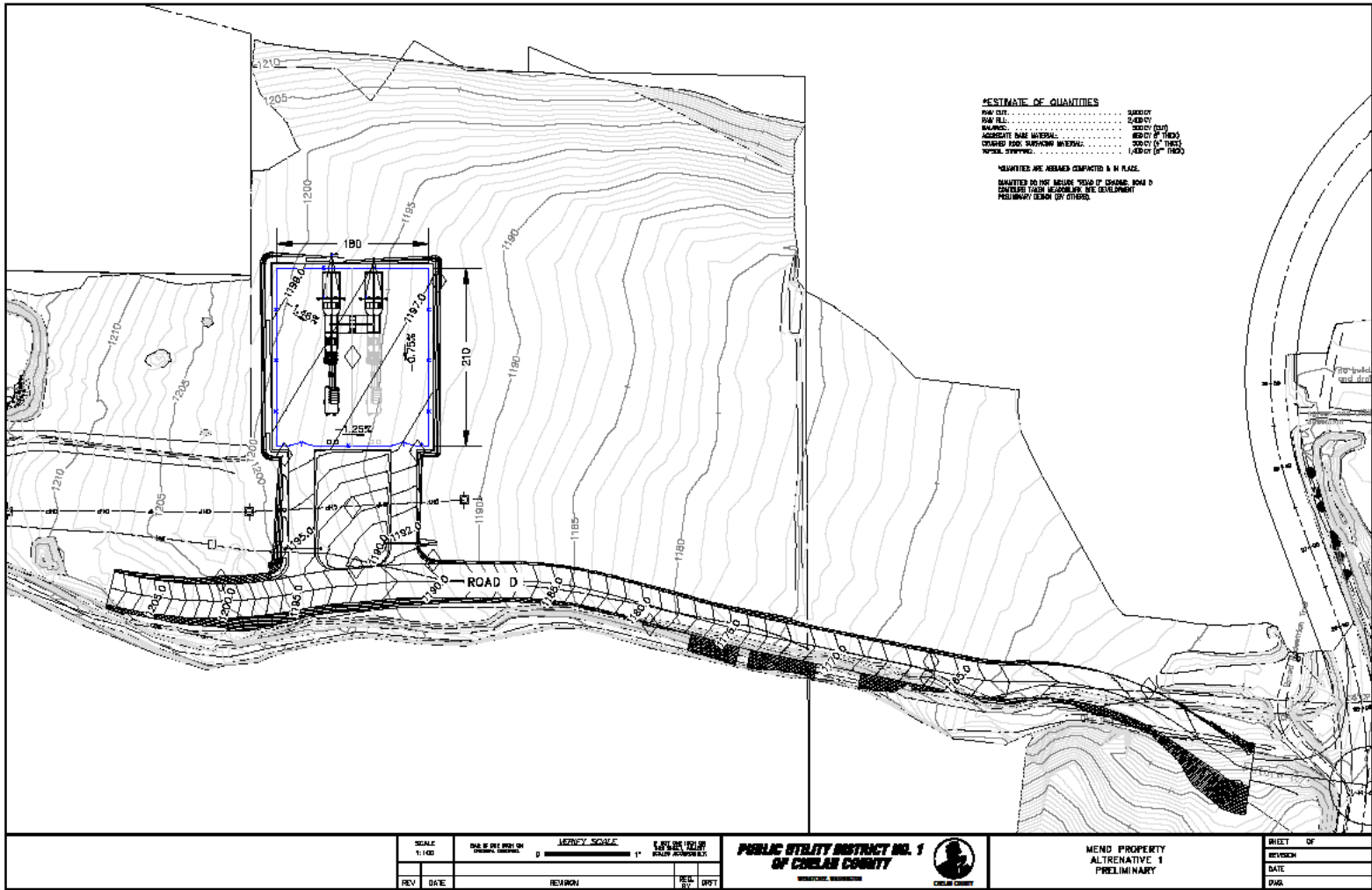
City Site 8a - Existing



City Site 8a - Rendering







SCALE 1" = 40'	SEE 16 FOR MORE ON CONCRETE FINISHES	LEGEND SCALE 1" = 40'	DATE OF THIS SET NOV 10 2010
REV	DATE	REVISION	BY

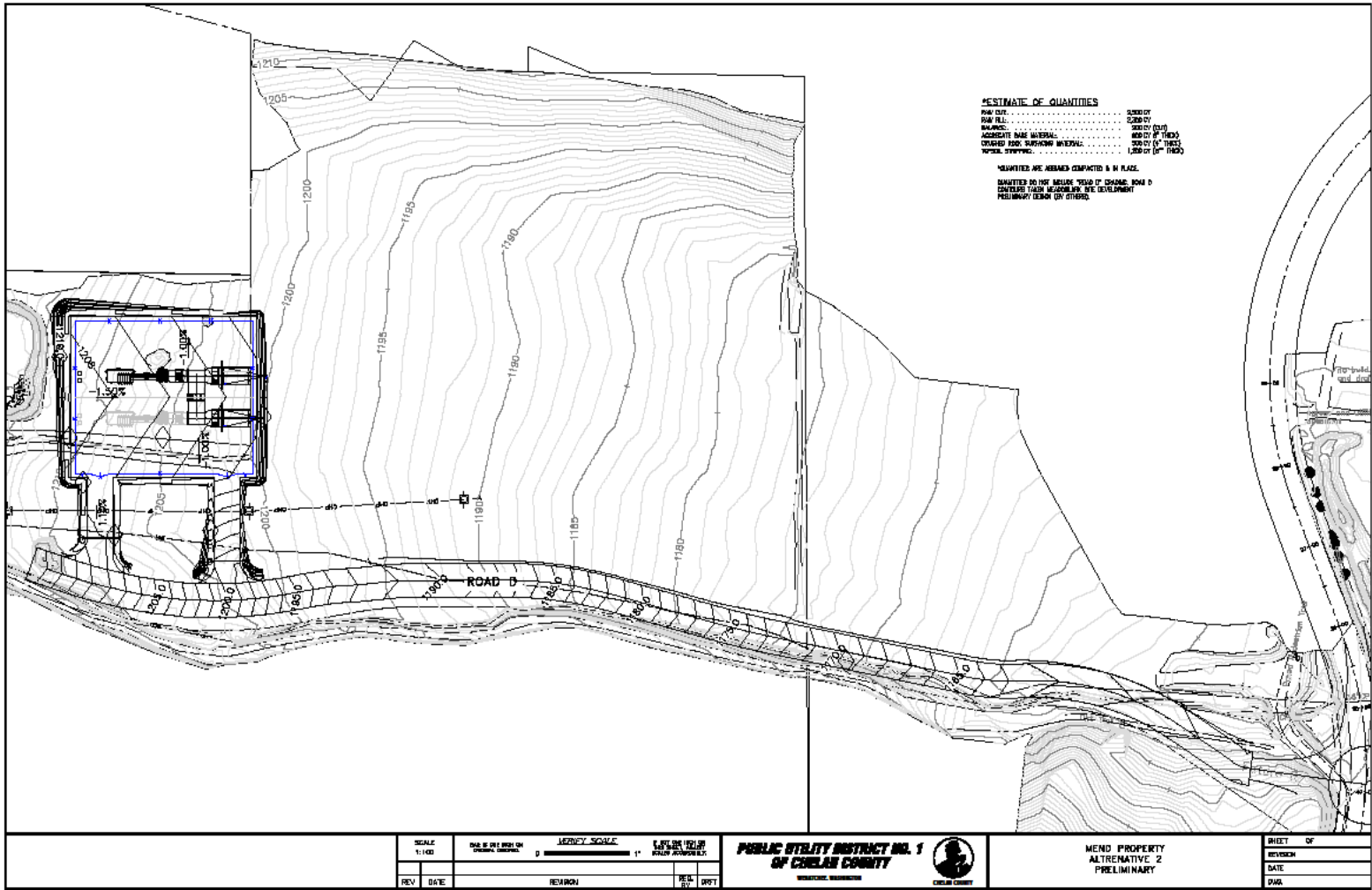
**PUBLIC UTILITY DISTRICT NO. 1
OF CHELAN COUNTY**



CHELAN COUNTY

MENDO PROPERTY
ALTERNATIVE 1
PRELIMINARY

SHEET	OF
REVISION	
DATE	
DWG.	



SCALE 1"=100'	PLAN IS ON A GRID ON CHELAN COUNTY	VERTICAL SCALE 1"=10' (VERTICAL) 1"=100' (HORIZONTAL)
REV	DATE	REVISION

**PUBLIC UTILITY DISTRICT NO. 1
OF CHELAN COUNTY**

MANAGING DIRECTOR

MEND PROPERTY
ALTERNATIVE 2
PRELIMINARY

SHEET	OF
REVISION	
DATE	
DWG.	

MEND Site 14 - Existing

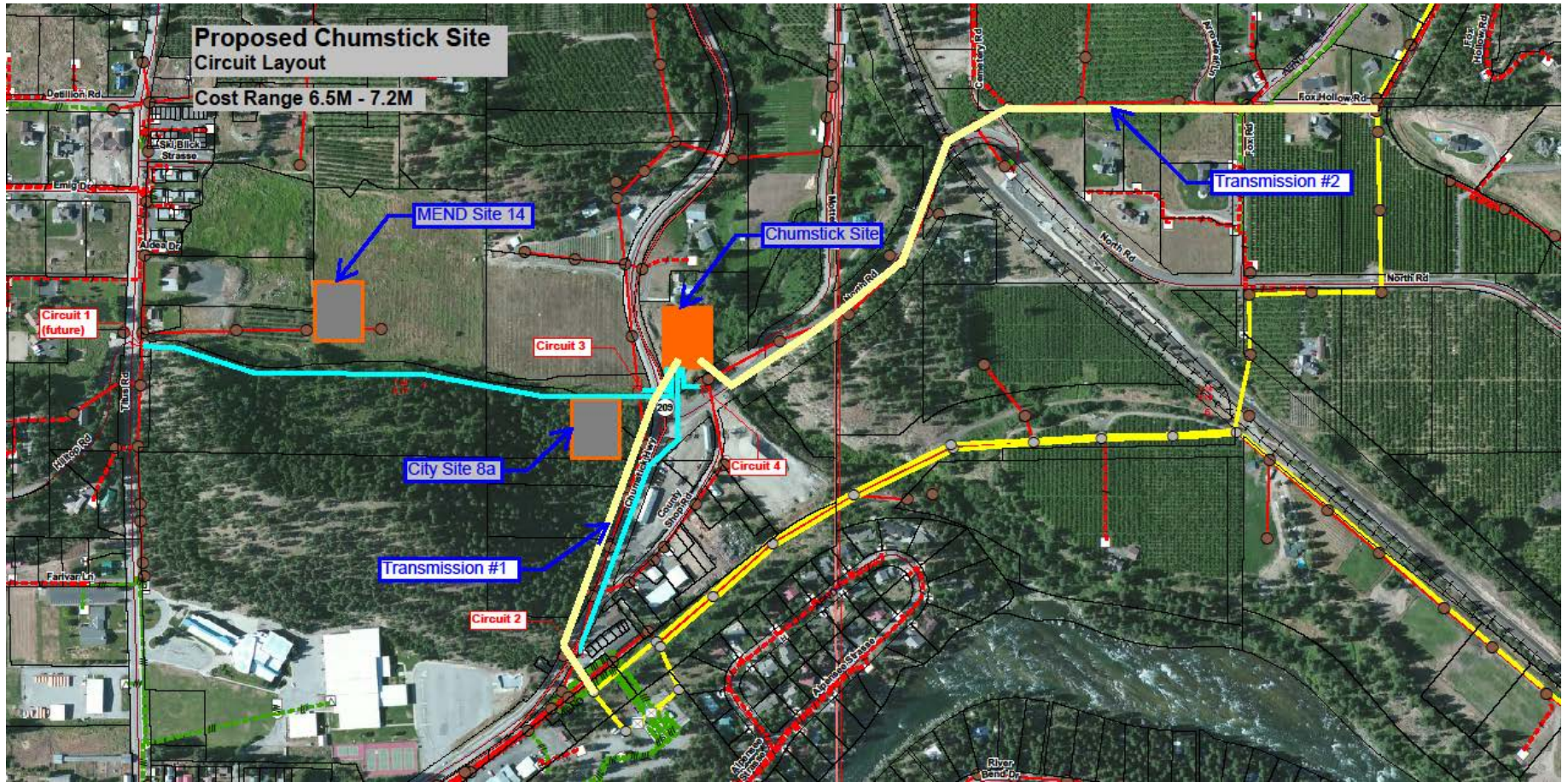


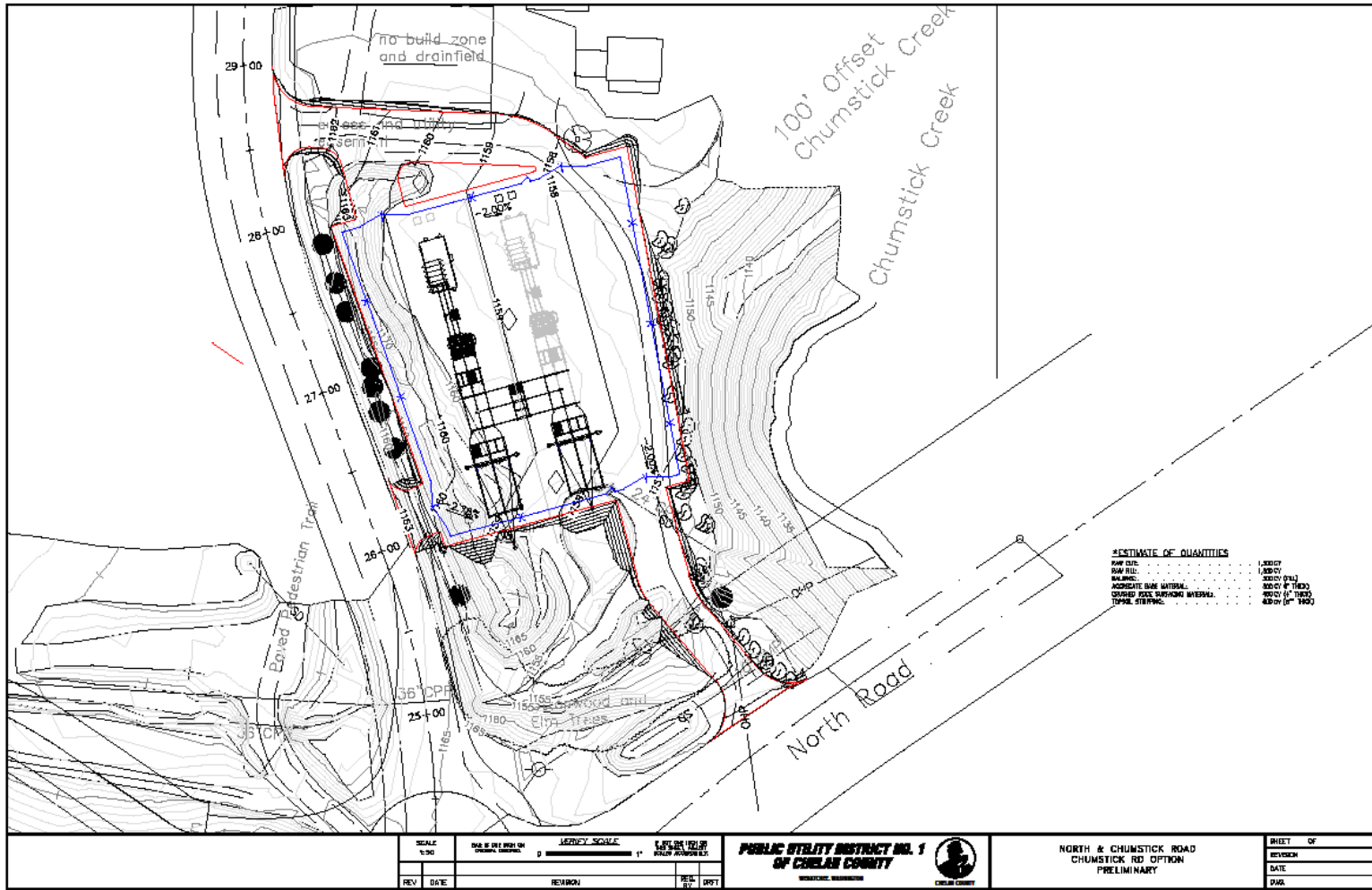
MEND Site 14 – Alt 1 Rendering



MEND Site 14 – Alt 2 Rendering







ESTIMATE OF QUANTITIES

RAW CUT:	1,800 CY
RAW FILL:	1,800 CY
PAVING:	2,000 SQ YD
AGGREGATE BASE MATERIAL:	2,000 CY (1,000 SQ YD @ 2\"/>
GRAVEL FILL SURVIVAL MATERIAL:	200 CY (1,000 SQ YD @ 2\"/>
TYPICAL STRENGTH:	200 CY (1,000 SQ YD @ 2\"/>

SCALE 1"=50'	VERTICAL SCALE 1"=5'	GRAPHIC SCALE 1"=50'
REV	DATE	REVISION

**PUBLIC UTILITY DISTRICT NO. 1
OF CHELAN COUNTY**

**NORTH & CHUMSTICK ROAD
CHUMSTICK RD OPTION
PRELIMINARY**

DISTRICT OF	
REVISION	
DATE	
DRAWN	

Chumstick Site - Existing



Chumstick Site - Rendering



Bavarian Substation

Planned Next Steps & Timeline

- **July 10:** Invite focus group members to Commission meeting
- **July 11:** Update Leavenworth City Council and community with Feasibility Report Findings & Recommendation
- **July:** Initiate CUP Process
- **July:** Initiate Permit Level Design
- **July – September:** Evaluate Transmission Routing in combination with stakeholder outreach
- **Q3-Q4:** Begin major equipment purchases

Questions?