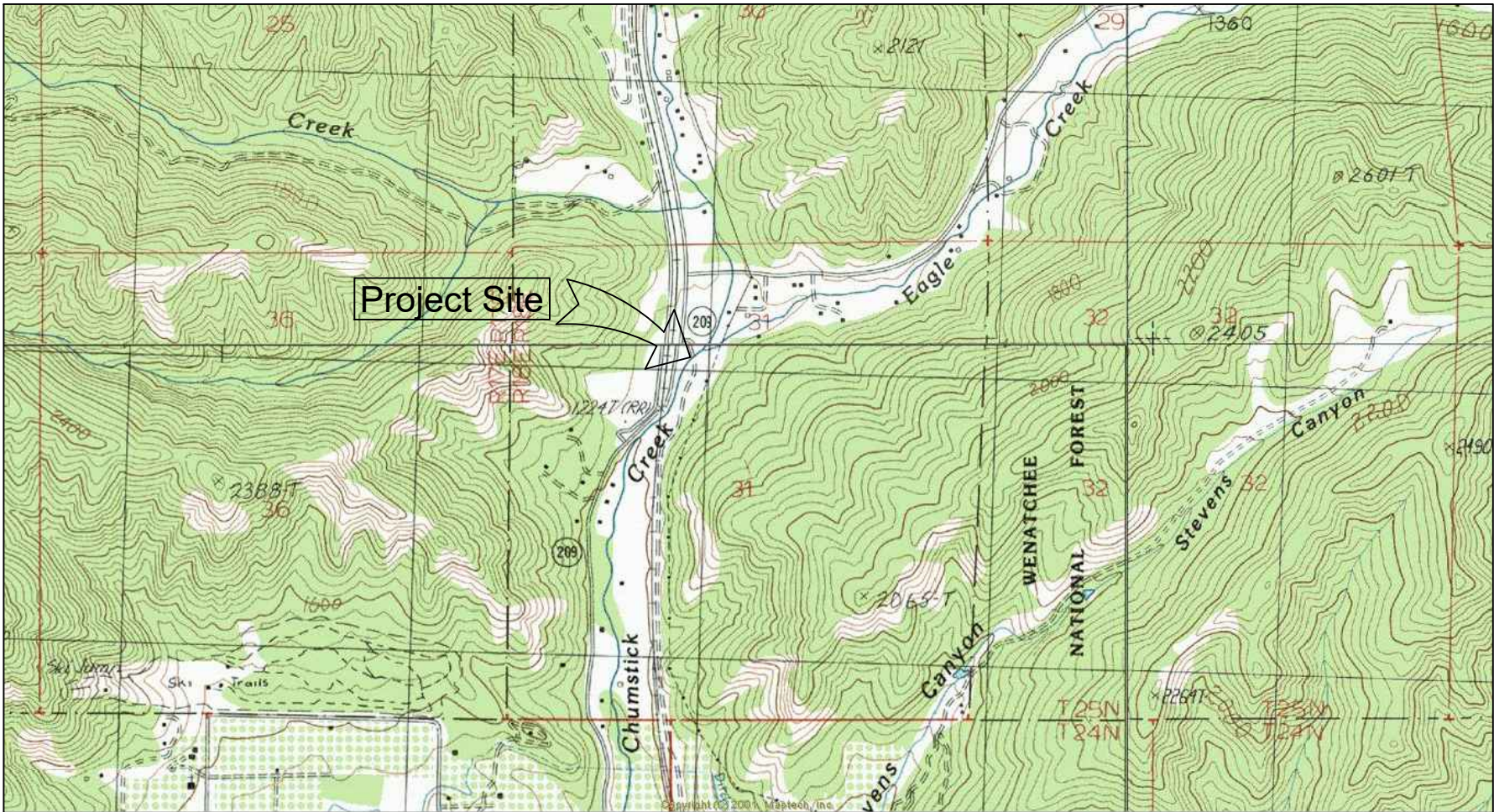


Preliminary Design

Chumstick Crk Culvert - RM 1.48

Alpenview Drive

Project Number 19-1584



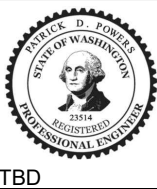
DRAWING INDEX:

- 1. Cover Sheet
- 2. Legend and Notes
- 3. Existing Site Plan
- 4. Site Plan Proposed
- 5. Stream Profile
- 6. Details
- 7. Details

VICINITY MAP
NOT TO SCALE



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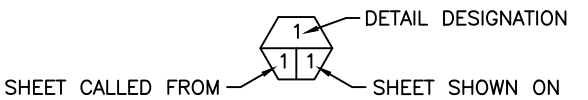
DESIGN BY:
Waterfall Engineering

DRAWN BY:

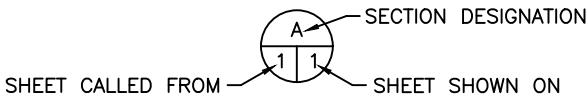
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Cover Sheet

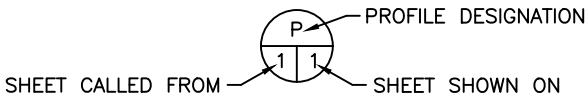
SHEET SYMBOLS



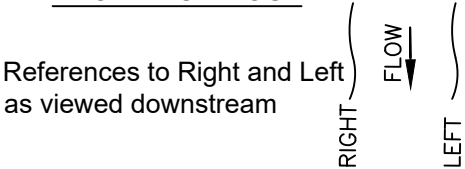
DETAIL CALLOUT



SECTION CALLOUT



PROFILE CALLOUT



ABBREVIATIONS

"	-	INCHES	MISC.	-	MISCELLANEOUS
'	-	FEET	MPH	-	MILES PER HOUR
APPROX.	-	APPROXIMATELY	O.C.	-	ON CENTER
B&B	-	BALLED AND BURLAPPED	O.D.	-	OUTSIDE DIAMETER
BM	-	BENCH MARK	OHW	-	ORDINARY HIGH WATER
CL	-	CENTERLINE	PK	-	PARKER-KALON
CAL.	-	CALIPER	R.O.W.	-	RIGHT OF WAY
CFS	-	CUBIC FEET PER SECOND	REQ'D	-	REQUIRED
CLR.	-	CLEARANCE	SEC.	-	SECTION
CMP	-	CORRUGATED METAL PIPE	S.F.	-	SQUARE FEET
CONC.	-	CONCRETE	SHT.	-	SHEET
DIA.	-	DIAMETER	SPEC'S.	-	PROJECT SPECIFICATIONS
ELEV.	-	ELEVATION	STA.	-	STATION
EQ.	-	EQUAL	SS	-	STAINLESS STEEL
FTG.	-	FOOTING	TEMP.	-	TEMPORARY
HDPE	-	HIGH DENSITY POLYETHYLENE	TYP.	-	TYPICAL
HT.	-	HEIGHT	W.S.	-	WATER SURFACE
GAL.	-	GALLON	WSDOT	-	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
I.D.	-	INSIDE DIAMETER	WSEL	-	WATER SURFACE ELEVATION
I.E.	-	INVERT ELEVATION			
LBS.	-	POUNDS			
LWD	-	LARGE WOODY DEBRIS			
MAX.	-	MAXIMUM			
MFG.	-	MANUFACTURER'S			
MHW	-	MEAN HIGH WATER			
MHHW	-	MEAN HIGHER HIGH WATER			
MIN.	-	MINIMUM			
MISC.	-	MISCELLANEOUS			

LEGEND

---	PROPERTY LINE		FOUND SURVEY MONUMENT
---	RIGHT OF WAY LINE		SET CONTROL POINT
---	CENTERLINE		POWER POLE
---	EXISTING FENCE		MANHOLE
---	BUILDING LINE		UTILITY CABINET
1145	INDEX CONTOUR LINE		LIGHT POST
---	UNDERGROUND POWER		TREE
---	EXISTING WATER LINE		WATER VALVE
---	EXISTING CALLOUT		OWNERSHIP REFERENCE
---	NEW CALLOUT		CONCRETE
---	SURVEY POINT		FILL
---	EXISTING TREES TO REMAIN		ROCK/GRAVEL
---	PROJECT BENCH MARK		UNDISTURBED GRADE
---	BORING LOCATIONS		WETLAND DELINEATION
---	SANDBAGS		DEMO
---	NOTE CALLOUT		ELEVATION MARKER
---	STATION CALLOUT		TREE TO BE REMOVED
---	PHOTO CALLOUT		TREE TO REMAIN

Survey Completed by M2C December 2019. State Plane Coordinates.

Control Points				
POINT	EASTING	NORTHING	ELEV	Description
40	227726.91	1686674.33	1222.02	M2C Cap
41	227848.92	1686492.37	1223.80	M2C Cap

Number	Northing	Easting	Elev(a)
1			
2			



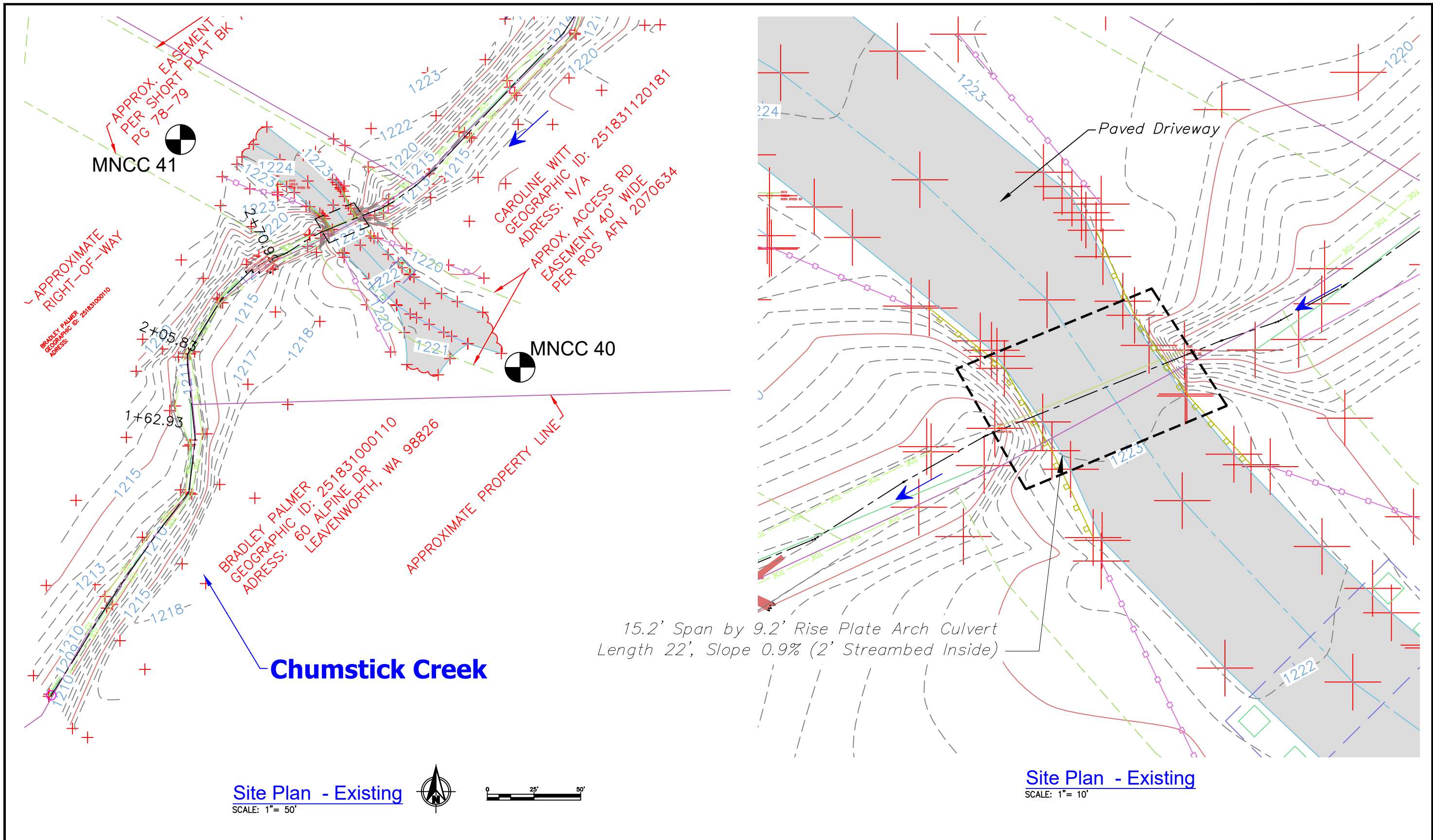
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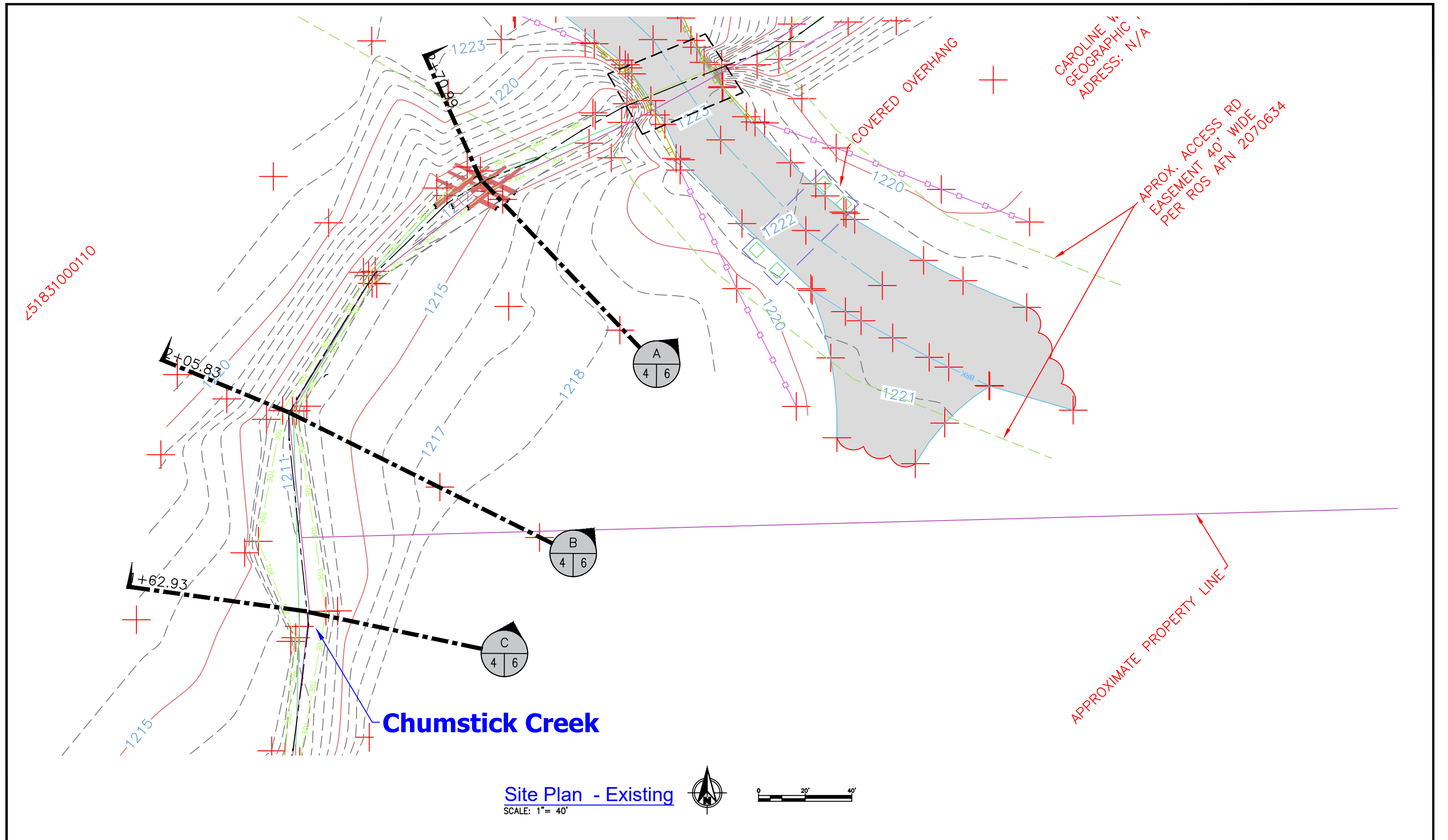


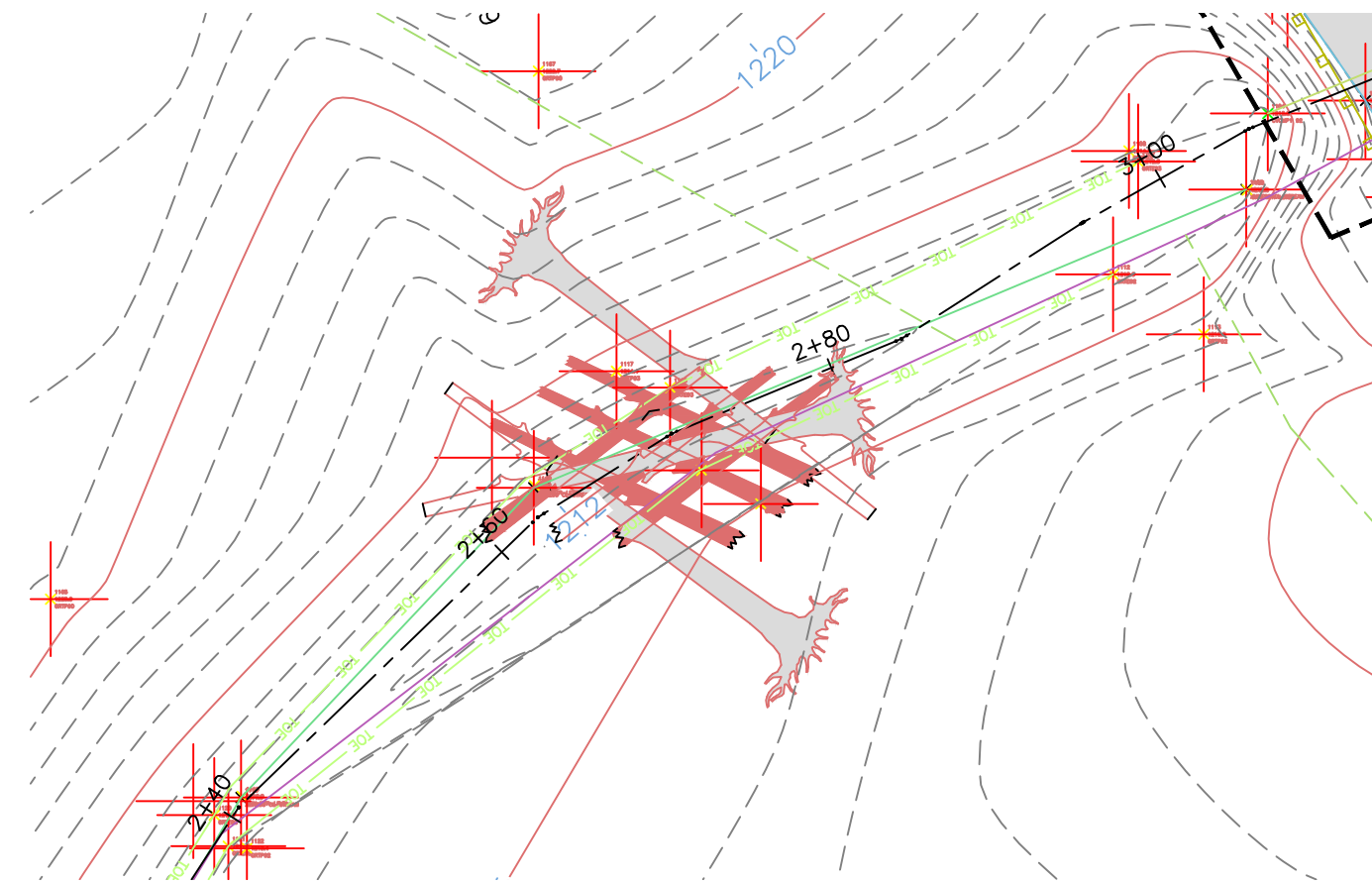
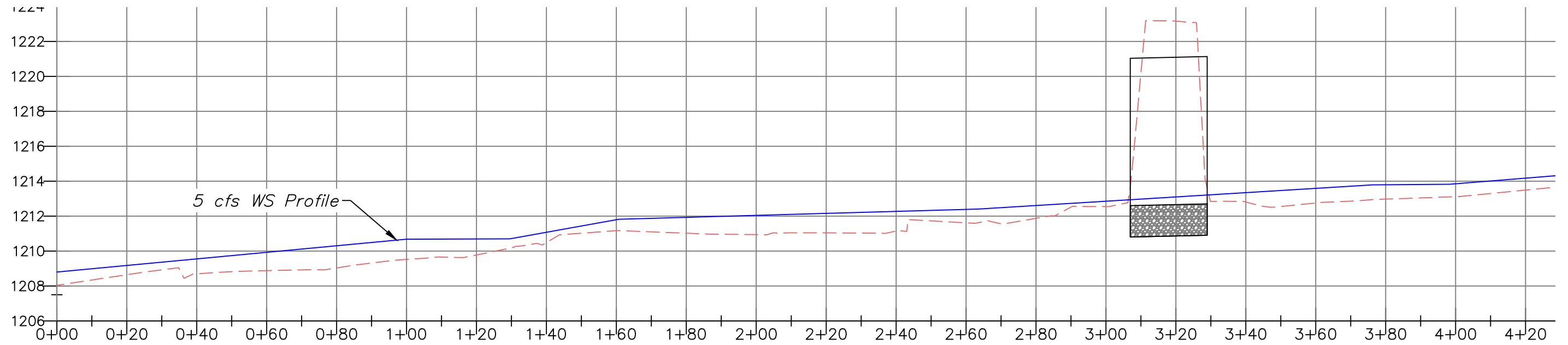
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DRAWN BY:
DATE: 1/9/2020

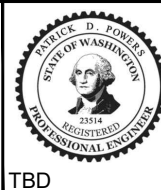
Legend







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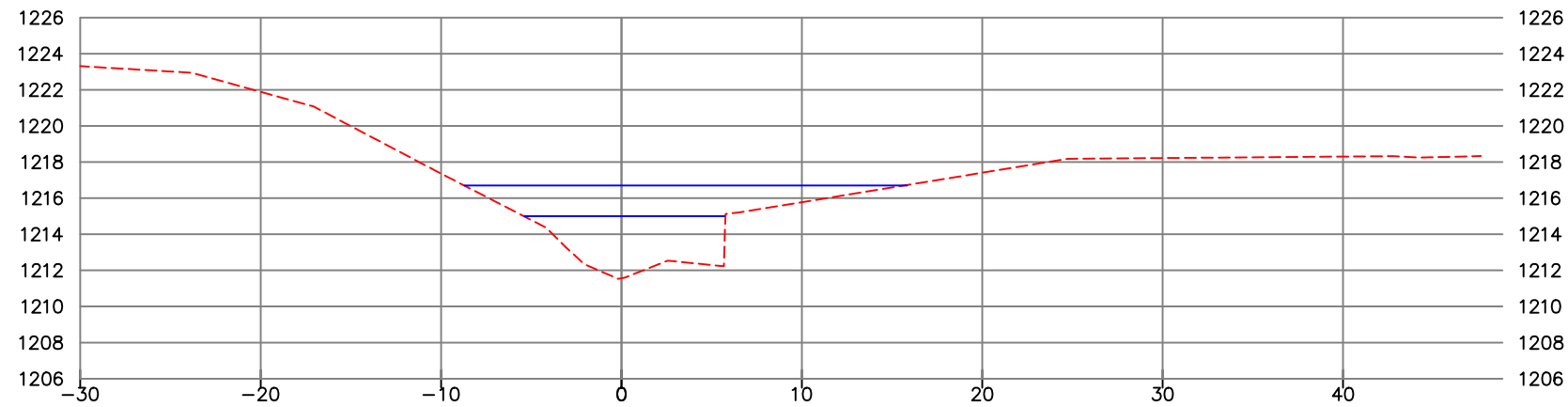
TBD

REV	DATE	BY	APP'D	DESCRIPTION
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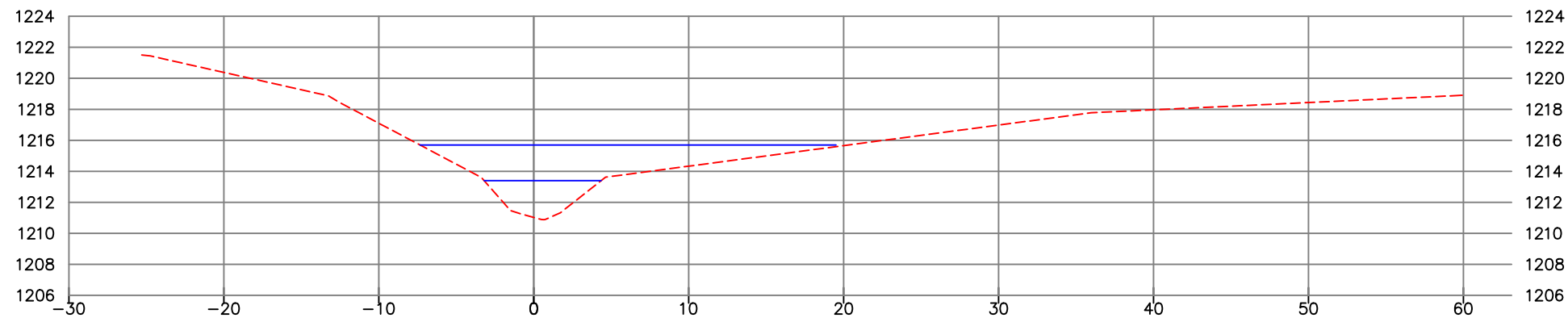
DESIGN BY: Waterfall Engineering
DRAWN BY:
DATE: 1/9/2020

Stream Profile/Sections

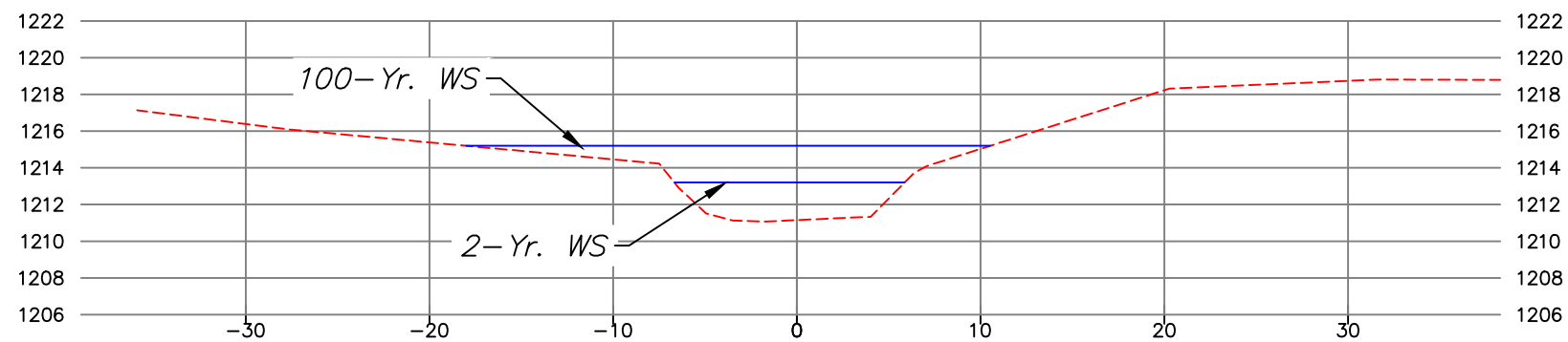
5 SHEET OF 7



A
4 6
Channel Section - STA 2+71 - View Upstream
Scale: 1" = 10'



B
4 6
Channel Section - STA 2+06 - View Upstream
Scale: 1" = 10'



C
4 6
Channel Section - STA 1+63 - View Upstream
Scale: 1" = 10'



Chumstick Creek - RM 1.48 Alpenview Drive



TBD

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Waterfall Engineering

DRAWN BY:

DATE:
1/9/2020

Sections/Details

6 **7**
SHEET OF