

**LEGEND AND SYMBOLS**

**ABBREVIATIONS**

EXISTING	NEW	DESCRIPTION
-e-----e-	-E-----E-	ELECTRICAL UNDERGROUND
-e------(oh)-	-E------(OH)-	ELECTRICAL OVERHEAD
----gs-----gs-	----GS-----GS-	GAS
-g-----g-	-G-----G-	NATURAL GAS
-irr-----irr-	-IRR-----IRR-	IRRIGATION
---o-----o-	---O-----O-	OIL
---sd-----sd-	---SD-----SD-	STORM DRAIN
---s-----s-	---S-----S-	SEWER
---st-----st-	---ST-----ST-	STEAM
---tc------(oh)-	---TC------(OH)-	TELECOMMUNICATION OVERHEAD
---tc-----tc-	---TC-----TC-	TELECOMMUNICATION UNDERGROUND
---t------(oh)-	---T------(OH)-	TELEPHONE OVERHEAD
---t-----t-	---T-----T-	TELEPHONE UNDERGROUND
---tv------(oh)-	---TV------(OH)-	TELEVISION OVERHEAD
---tv-----tv-	---TV-----TV-	TELEVISION UNDERGROUND
-w-----w-	-W-----W-	WATER, RECYCLED WATER
-fo-----fo-	-FO-----FO-	FIBER OPTIC
		IRRIGATION WELL, WEIR, TURNOUT, PUMP
		SEWER, STORM DRAIN MANHOLE
		UTILITY POLE
		FIRE HYDRANT
		DROP INLET
		POWER TRANSMISSION TOWER
		STREET LIGHT
		NORTH ARROW
		PROP CHSR RIGHT-OF-WAY
		CHSR TRACK CENTER LINE
		RETAINING WALL
		STRUCTURE FOUNDATION
		PTEF
		PPEF
		UTILITY TO BE REMOVED OR RELOCATED
		RETENTION BASIN
		KEY NOTE, UTILITY NUMBER
		ROADWAY EASEMENT
		WIND TURBINE - TO BE RELOCATED

AB	AGGREGATE BASE	FH	FIRE HYDRANT	R	RADIUS
ABN	ABANDON	FM	FORCE MAIN	RCP	REINFORCED CONCRETE PIPE
AC	ASPHALT CONCRETE	F-B	FRESNO TO BAKERSFIELD	RD	ROAD
ACB	ASPHALT CONCRETE BASE	FO	FIBER OPTIC	RDWY	ROADWAY
ACP	ASBESTOS CEMENT PIPE	FUT	FUTURE	REQD	REQUIRED
A/G	AT GRADE	G	GAS	RR	RAILROAD
APPROX	APPROXIMATE	GALV	GALVANIZED	RT	RIGHT
AVE	AVENUE	GB	GRADE BREAK	RTE	ROUTE
BEG	BEGIN	GIS	GEOGRAPHICAL INFORMATION SYSTEM	R/W, ROW	RIGHT-OF-WAY
BFSSA	BAKERSFIELD F STREET STATION ALIGNMENT	GND	GROUND	RWY	RAILWAY
BLDG	BUILDING	GTR	GUTTER	S	SOUTH
BLVD	BOULEVARD	GV	GAS VALVE	SB	SOUTHBOUND
BNSF	BURLINGTON NORTHERN SANTA FE	GWTR	GROUNDWATER	SD	STORM DRAIN
BO	BLOW-OFF	GWMW	GROUNDWATER MONITOR WELL	SDMH	STORM DRAIN MANHOLE
CB	CATCH BASIN	GWAW	GROUNDWATER ACTIVE WELL	SF	SQUARE FEET
CD	CURB DRAIN	HOR	HORIZONTAL	SHLD	SHOULDER
C&G	CURB AND GUTTER	HSR	HIGH-SPEED RAIL	SR	STATE ROUTE
CHSR	CALIFORNIA HIGH-SPEED RAIL	HST	HIGH-SPEED TRAIN	SS	SANITARY SEWER, SUBSTATION
CHST	CALIFORNIA HIGH-SPEED TRAIN	IN	INCH	SSMH	SANITARY SEWER MANHOLE
CIP	CAST IRON PIPE	INV	INVERT	ST	STREET
CL	CENTERLINE, CLASS	IRR	IRRIGATION	STA	STATION
CLM	CENTERLINE	L	LENGTH	SW	SIDEWALK, SWITCHING STATION
CLSM	CONTROLLED LOW STRENGTH MATERIAL	LT	LEFT	SWR	SEWER
CPUC	CALIFORNIA PUBLIC UTILITIES COMMISSION	MAX	MAXIMUM	T	TELEPHONE, TOTAL
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	TC	TELECOMMUNICATION
CTV	CABLE TELEVISION	N	NORTH, NEW	TCE	TEMPORARY CONSTRUCTION EASEMENT
CV	CURVE	NA	NOT APPLICABLE	TEL	TELEPHONE
D	DEPTH	NB	NORTHBOUND	TP	TRACTION POWER
DI	DRAINAGE INLET	NIC	NOT IN CONTRACT	TOR	TOP OF RAIL
DIA	DIAMETER	NO	NUMBER	TS	TRAFFIC SIGNAL
DIP	DUCTILE IRON PIPE	NTS	NOT TO SCALE	TYP	TPICAL
DIST	DISTANCE	OCS	OVERHEAD CONTACT SYSTEM	UG, U/G	UNDERGROUND
DWG	DRAWING	PROP, (P)	PROPOSED	UNK	UNKNOWN
E	ELECTRICAL, EAST	PED	PEDESTRIAN	UPRR	UNION PACIFIC RAILROAD
EB	EASTBOUND	PPEF	PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT	VAR	VARIES
EL	ELEVATION	PS	PROPOSED TEMPORARY ENVIRONMENTAL FOOTPRINT	VC	VERTICAL CURVE
ELEC	ELECTRIC	PTEF	PROPOSED TEMPORARY ENVIRONMENTAL FOOTPRINT	VCP	VITRIFIED CLAY PIPE
EP	EDGE OF PAVEMENT	PVC	POLYVINYL CHLORIDE	W	WEST, WATER
EXIST, (E)	EXISTING	PVMT	PAVEMENT	W/	WITH
		PG	PROPOSED GRADE	WB	WESTBOUND
				WM	WATER MAIN
				WV	WATER VALVE

Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-B0101

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY <b>D. ARUTA</b>
DRAWN BY <b>J. LOPEZ</b>
CHECKED BY <b>J. TURRELL</b>
IN CHARGE <b>G. CAMPBELL</b>
DATE <b>01/24/2020</b>

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY GENERAL  
ABBREVIATIONS AND LEGEND

CONTRACT NO. <b>HSR13-44</b>
DRAWING NO. <b>UT-B0101</b>
SCALE <b>NO SCALE</b>
SHEET NO.

UTILITY OWNERS	
OWNER	ABBREVIATION
ANTELOPE VALLEY EAST KERN WATER AGENCY	AVEKWA
APR CORPORATION	APR CORP
ARVIN-EDISON WATER STORAGE DISTRICT	AEWSD
AT&T TRANSMISSION	AT&T TRANS
AT&T/PACBELL	PACBELL
BRIGHT HOUSE NETWORKS	BRIGHTHOUSE
CALIFORNIA WATER SERVICE	CALWATER
CALTRANS	CALTRANS
CENTURYLINK COMMUNICATION CA	CENTURYLINK
CITY OF BAKERSFIELD	CITY OF BAKERSFIELD
CITY OF LANCASTER	CITY OF LANCASTER
CITY OF PALMDALE	CITY OF PALMDALE
CITY OF TEHACHAPI	CITY OF TEHACHAPI
COUNTY OF KERN	COUNTY OF KERN
CVIN LLC	CVIN
DOLE ENTERPRISES	DOLE ENT
EAST NILES COMMUNITY SERVICES DISTRICT	ENCSD
GOLDEN HILLS COMMUNITY SERVICE DISTRICT	GHCSO
KERN DELTA WATER DISTRICT	KDWD
KERN OIL & REFINING	KERN OIL
KERN SANITATION AUTHORITY	KSA
KINDER MORGAN (EL PASO PIPELINE)	EL PASO/KM
KINDER MORGAN (MOJAVE PIPELINE)	MOJAVE/KM
LANDALE MUTUAL WATER COMPANY	LMWC
LEVEL 3 COMMUNICATIONS	LEVEL 3
LOS ANGELES DEPARTMENT OF WATER AND POWER	LADWP
LOS ANGELES COUNTY DPW WATER WORKS	LACDPW-WW
LOS ANGELES COUNTY DEPARTMENT OF PARKS AND RECREATION	LACDPR
LOS ANGELES COUNTY SANITATION DISTRICT	LACSD
NAFTEX OPERATING COMPANY	NAFTEX
NEXTERA ENERGY RESOURCES	NEXTERA
PG&E - DISTRIBUTION	PG&E DIST
PG&E - TRANSMISSION	PG&E TRANS
PHILLIPS 66 - TOSCO	PHILLIPS66
ROSAMOND COMMUNITY SERVICE DISTRICT	RCSD
SHELL PIPELINE CO	SHELL
SOUTHERN CALIFORNIA EDISON - TRANSMISSION	SCE TRANS
SOUTHERN CALIFORNIA EDISON - DISTRIBUTION	SCE DIST
SOUTHERN CALIFORNIA GAS CO/SEMPRA - DISTRIBUTION	SEMPRA DIST

UTILITY OWNERS CONT.	
OWNER	ABBREVIATION
SOUTHERN CALIFORNIA GAS CO/SEMPRA - TRANSMISSION	SEMPRA TRANS
SPRINT	SPRINT
SUNESYS, LLC	SUNESYS
TEHACHAPI CUMMINGS WATER	TEHACHAPI CUMMINGS
TIME WARNER	TIME WARNER
UNITED STATES BUREAU OF RECLAMATION	USBR
VALLEY WATER MANAGEMENT COMPANY	VWMC
VAQUERO ENERGY	VAQUERO
VERIZON	VERIZON

**GENERAL NOTES:**

- EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION THESE PLANS. THE LOCATION OF EXISTING UTILITIES ARE BASED ON FOUR SOURCES:
  - TOPOGRAPHIC SURVEY
  - GIS
  - AS-BUILT DRAWINGS
  - LIMITED FIELD RECONNAISSANCE
 THE CONTRACTOR SHALL CONDUCT ITS OWN SURVEY AND VERIFY THE LOCATION OF EXISTING UTILITIES AND RECONCILE THE SURVEY DATA AND GIS DATA.
- SERVICE LATERALS FOR POTABLE WATER, SANITARY SEWER AND NATURAL GAS ARE NOT SHOWN.
- EXISTING UTILITIES IDENTIFIED WITH THE DISPOSITION 'RELOCATE' AND 'REMOVE' PERTAIN TO ONLY THAT PORTION OF THE UTILITY WITHIN THE PROPOSED CHSR ROW OR IMPACTED BY PROPOSED IMPROVEMENTS.
- ABANDONMENT OF EXISTING OIL WELLS SHALL CONFORM TO THE REQUIREMENTS OF AGENCIES HAVING JURISDICTION REGARDING DECOMMISSIONING OF EXISTING OIL WELLS AND APPURTENANT EQUIPMENT.

**HIGH VOLTAGE TRANSMISSION LINE RELOCATION NOTES:**

- ELECTRICAL TOWER AND WIRE HEIGHTS ARE NOT BASED ON FIELD SURVEY AND MAY NOT REPRESENT ACTUAL FIELD CONDITIONS.
- CPUC VERTICAL CLEARANCE FROM OCS POLE NEGATIVE FEEDER WIRE TO LOWEST HIGH VOLTAGE ELECTRICAL CONDUCTOR: CPUC GO 95 RULE 38 TABLE 2 (CASE 12).
- ELECTRICAL TRANSMISSION TOWERS/POLES SUBJECT TO ADDITIONAL CLEARANCE REQD BY UTILITY OWNER.
- PROPOSED HV TRANSMISSION TOWERS REPRESENTED CONCEPTUALLY.
- NEGATIVE FEEDER WIRE DISTANCE ABOVE TOP RAIL: 30' FOR 2 TRACK CONFIGURATION, 35' FOR 3 OR MORE TRACK CONFIGURATION.

**DRAINAGE SYSTEM AND RELOCATION NOTES:**

EXISTING STORM DRAINAGE PIPES, CULVERTS, OR CHANNELS ARE SHOWN FOR INFORMATION ONLY. REFER TO GRADING AND DRAINAGE PLANS FOR DETIALED DRAINAGE INFORMATION.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY <b>D. ARUTA</b>
DRAWN BY <b>J. LOPEZ</b>
CHECKED BY <b>J. TURRELL</b>
IN CHARGE <b>G. CAMPBELL</b>
DATE <b>01/24/2020</b>

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



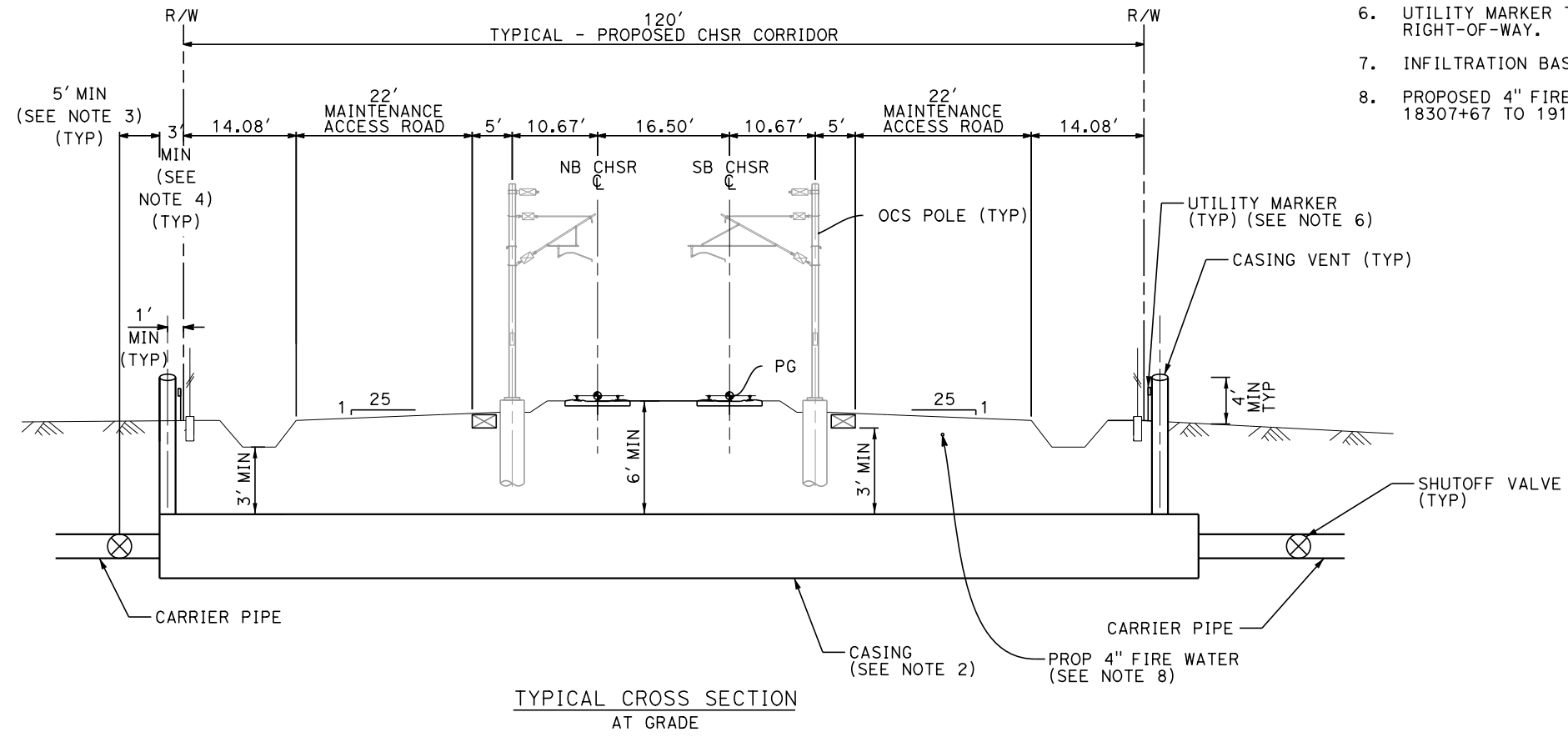
**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY GENERAL  
GENERAL NOTES AND UTILITY OWNERS

CONTRACT NO. <b>HSR13-44</b>
DRAWING NO. <b>UT-B0102</b>
SCALE <b>NO SCALE</b>
SHEET NO.

**NOTES:**

1. TRACK, SYSTEMS, DRAINAGE, AND STRUCTURES ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
2. FOR ADDITIONAL PIPE CASING REQUIREMENTS, SEE AREMA MANUAL.
3. SHUTOFF VALVE MUST BE ACCESSIBLE FROM OUTSIDE THE RIGHT-OF-WAY. IT MAY NOT BE NEEDED ON BOTH SIDES.
4. THE CASING SHALL CONTINUE MINIMUM 3'-0" BEYOND THE RIGHT-OF-WAY.
5. TRANSVERSE UTILITIES SHALL BE LOCATED AWAY FROM MANHOLES, OCS FOOTINGS, AND OTHER HST SUBSURFACE ELEMENTS.
6. UTILITY MARKER TO INDICATE LOCATION OF UTILITY CROSSING AT RIGHT-OF-WAY.
7. INFILTRATION BASIN WHERE SHOWN ON THE PLANS.
8. PROPOSED 4" FIRE WATER LINE PARALLELS ALIGNMENT FROM STATION 18307+67 TO 19104+40.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
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**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

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**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY GENERAL  
UTILITY CROSSING DETAIL

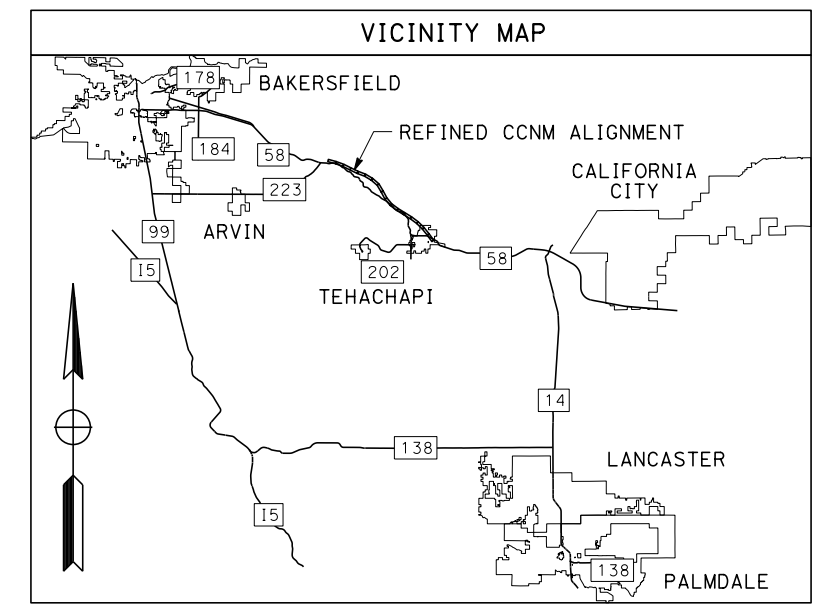
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**HSR13-44**

DRAWING NO.  
**UT-B0103**

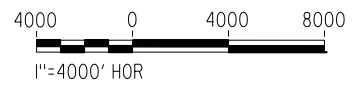
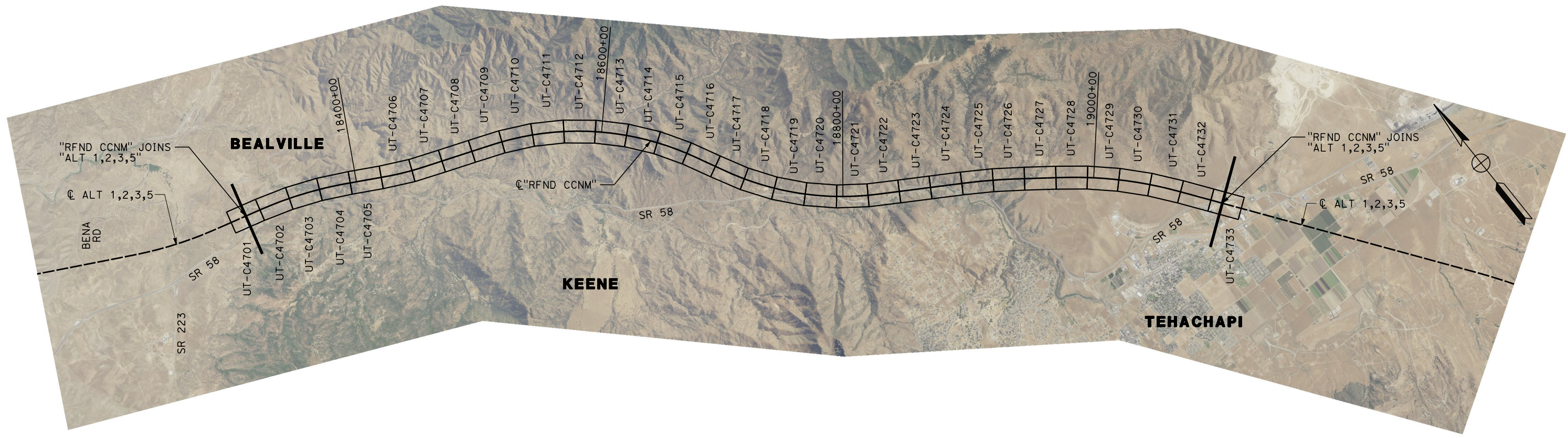
SCALE  
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SHEET NO.





### REFINED CCNM DESIGN OPTION

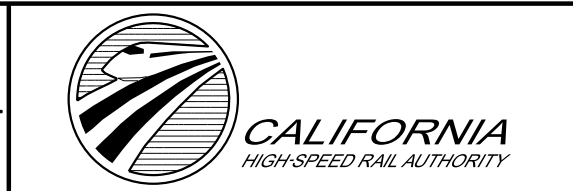


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DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

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CONSTRUCTION**

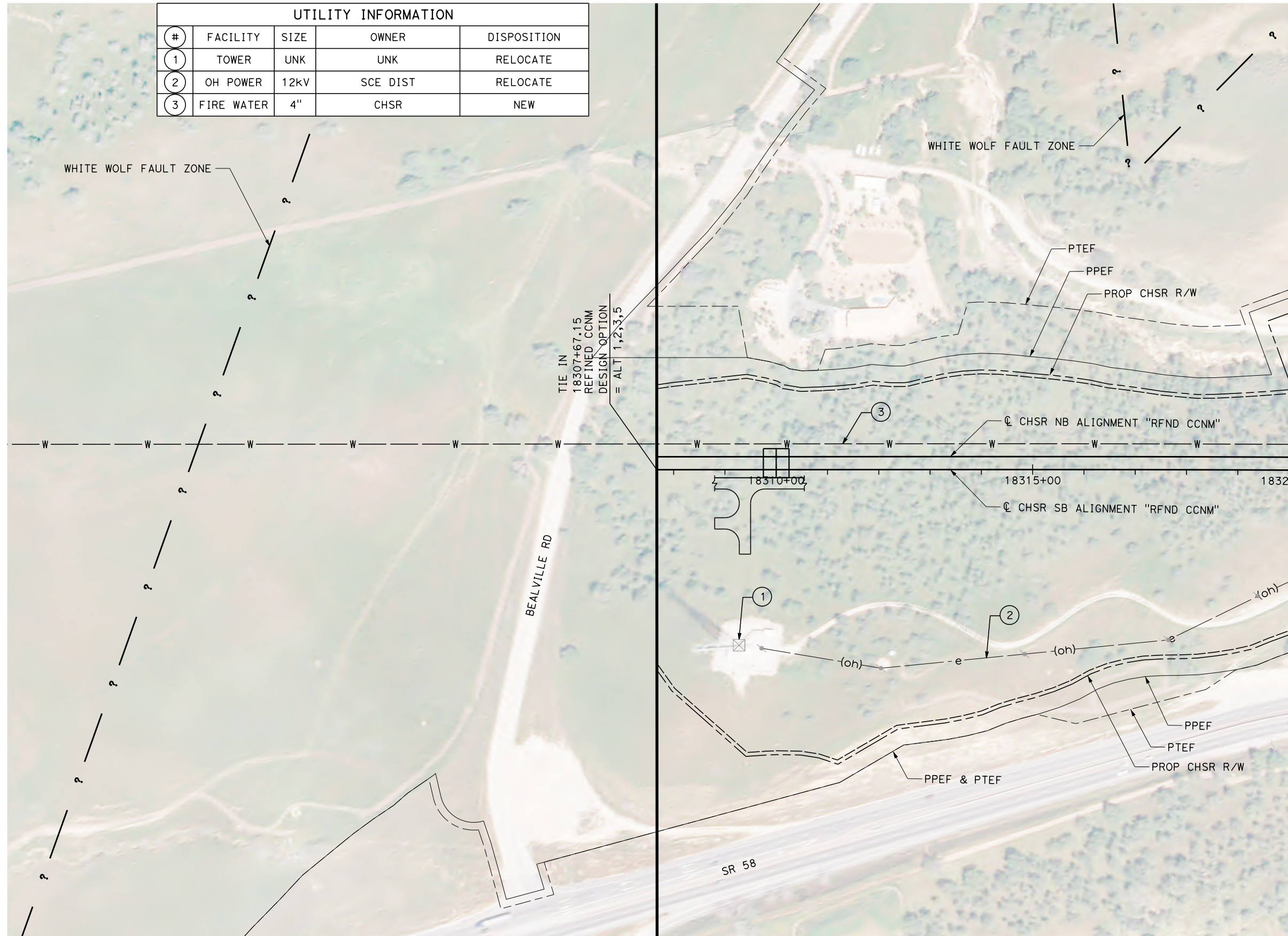


**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY GENERAL  
KEY MAP

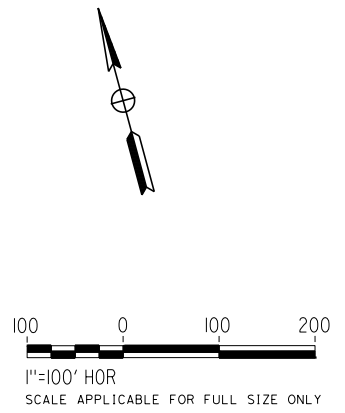
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**HSR13-44**  
DRAWING NO.  
**UT-B0104**  
SCALE  
**AS SHOWN**  
SHEET NO.



UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	TOWER	UNK	UNK	RELOCATE
2	OH POWER	12kV	SCE DIST	RELOCATE
3	FIRE WATER	4"	CHSR	NEW



MATCH LINE STA 18320+00  
SEE SHEET UT-C4702



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
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**J. LOPEZ**  
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**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

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**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18307+67 TO 18320+00  
PLAN

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
UT-C4701  
SCALE  
AS SHOWN  
SHEET NO.



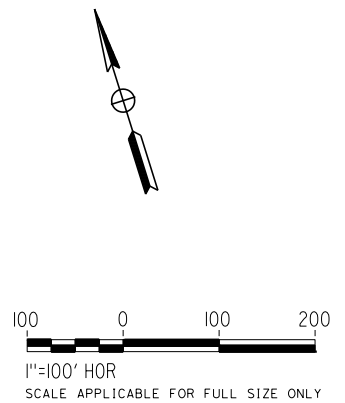
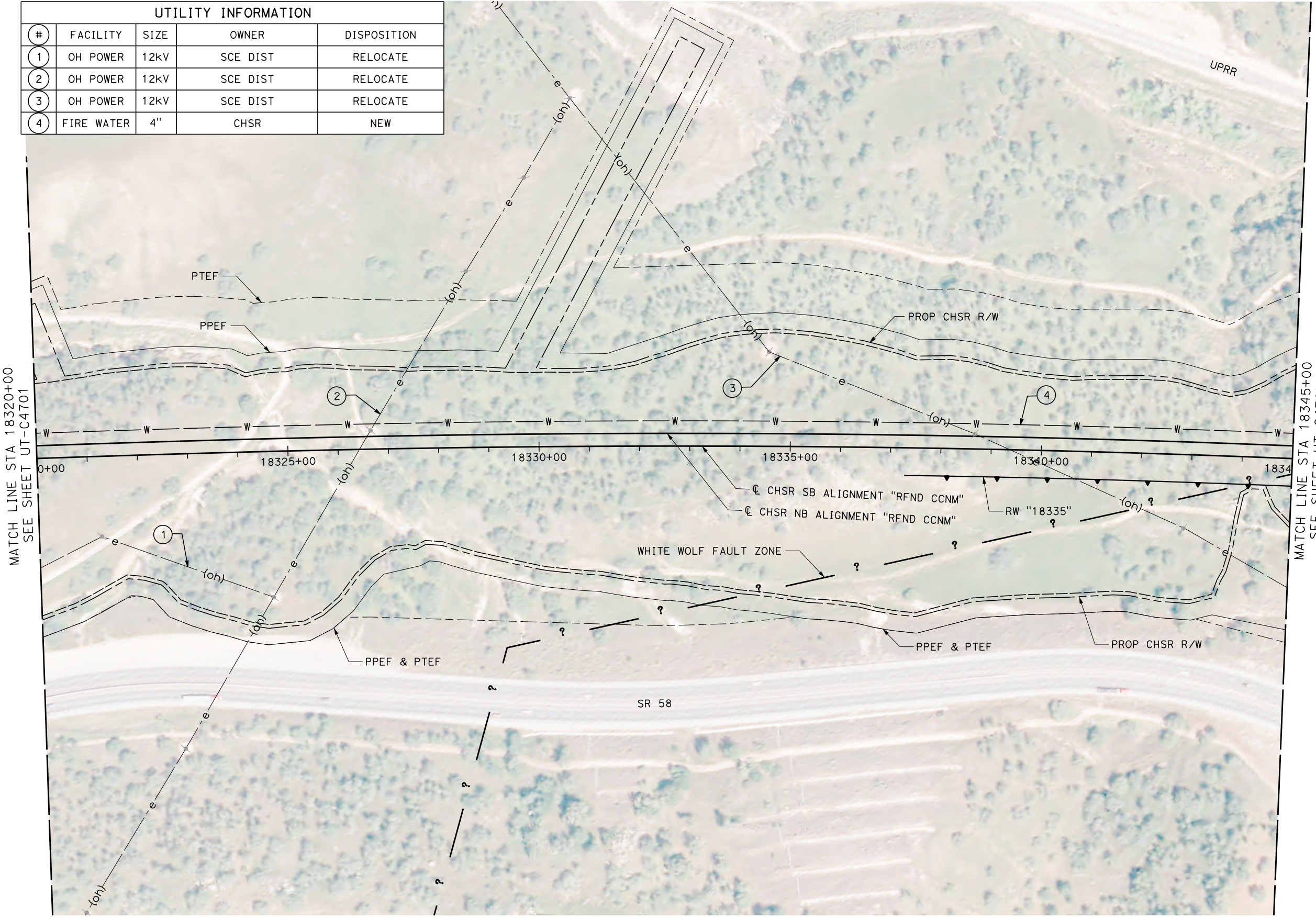
Projects\701206.00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4702

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UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12KV	SCE DIST	RELOCATE
2	OH POWER	12KV	SCE DIST	RELOCATE
3	OH POWER	12KV	SCE DIST	RELOCATE
4	FIRE WATER	4"	CHSR	NEW



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**D. ARUTA**  
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**G. CAMPBELL**  
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**01/24/2020**

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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18320+00 TO 18345+00  
PLAN

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
UT-C4702  
SCALE  
AS SHOWN  
SHEET NO.



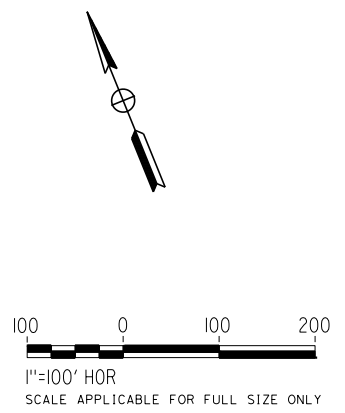
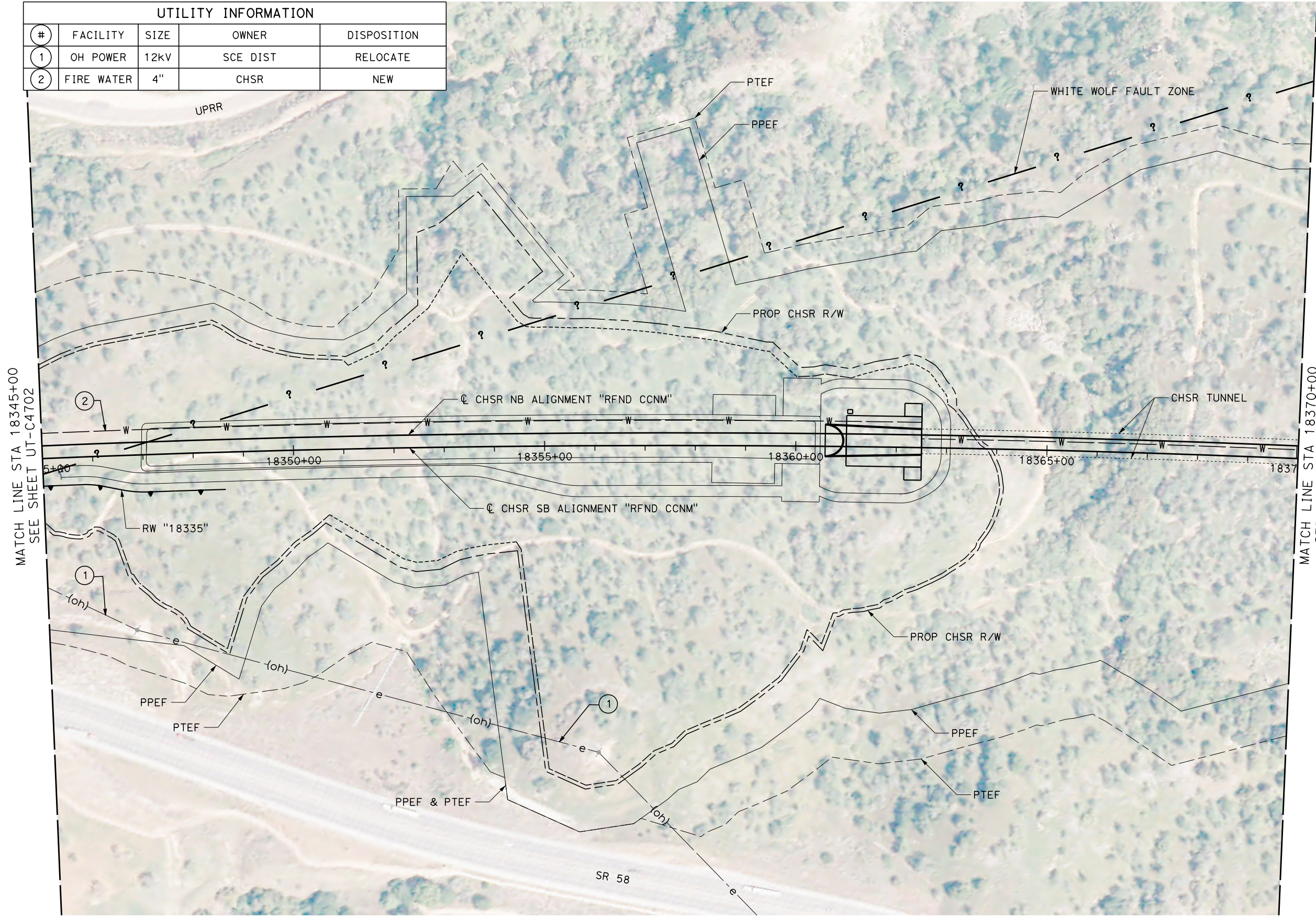
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1/22/2020

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UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	SCE DIST	RELOCATE
2	FIRE WATER	4"	CHSR	NEW



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**D. ARUTA**  
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BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18345+00 TO 18370+00  
PLAN

CONTRACT NO.  
**HSR13-44**  
DRAWING NO.  
**UT-C4703**  
SCALE  
**AS SHOWN**  
SHEET NO.



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4704

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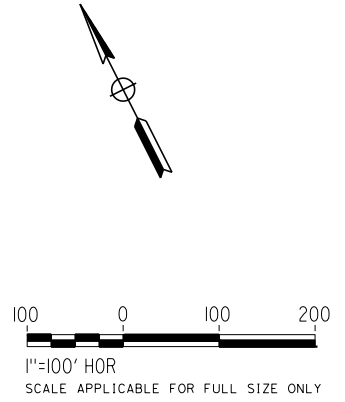
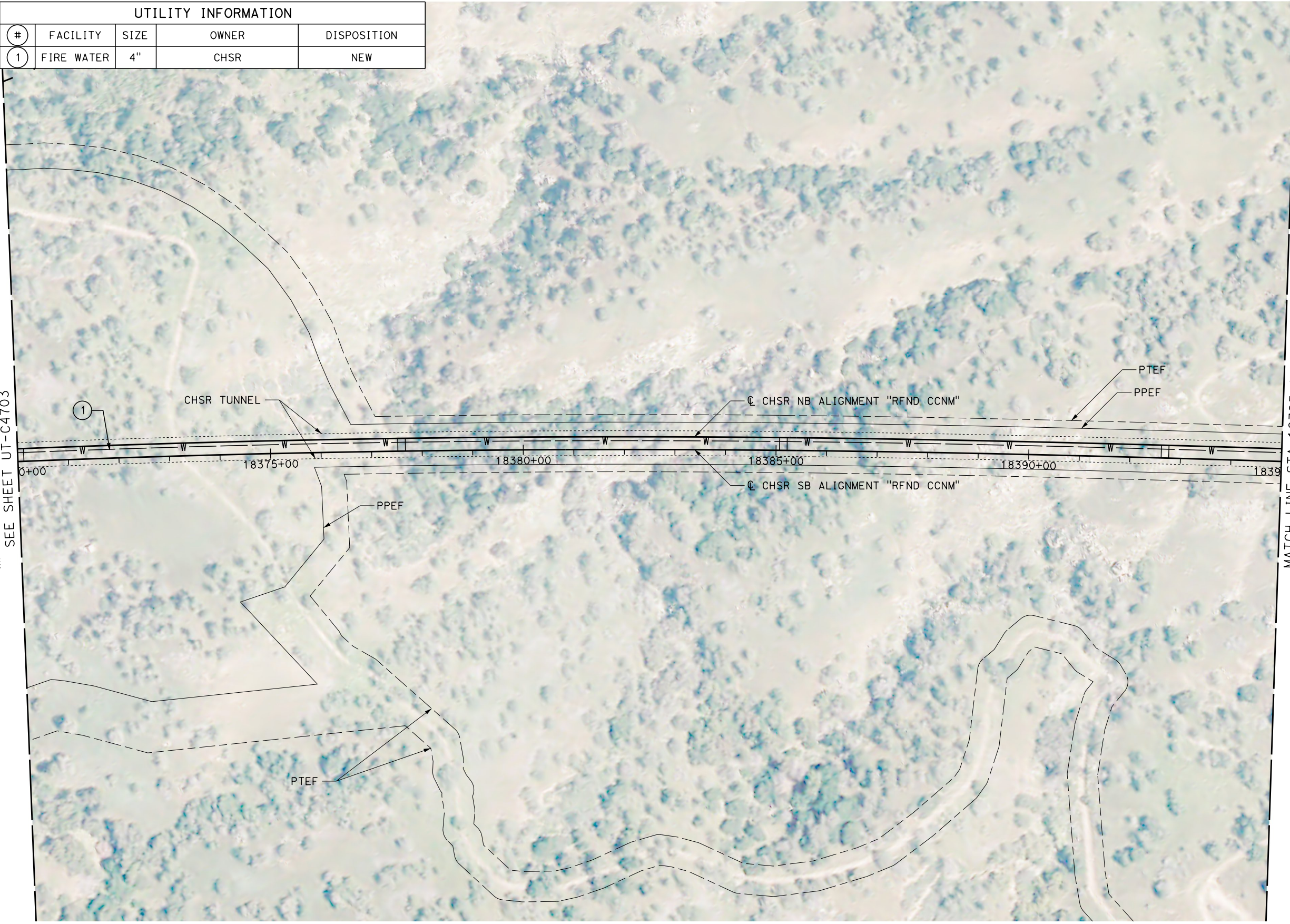
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UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW

MATCH LINE STA 18370+00  
SEE SHEET UT-C4703

MATCH LINE STA 18395+00  
SEE SHEET UT-C4705



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**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18370+00 TO 18395+00  
PLAN

CONTRACT NO.  
HSR13-44  
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UT-C4704  
SCALE  
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Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4705

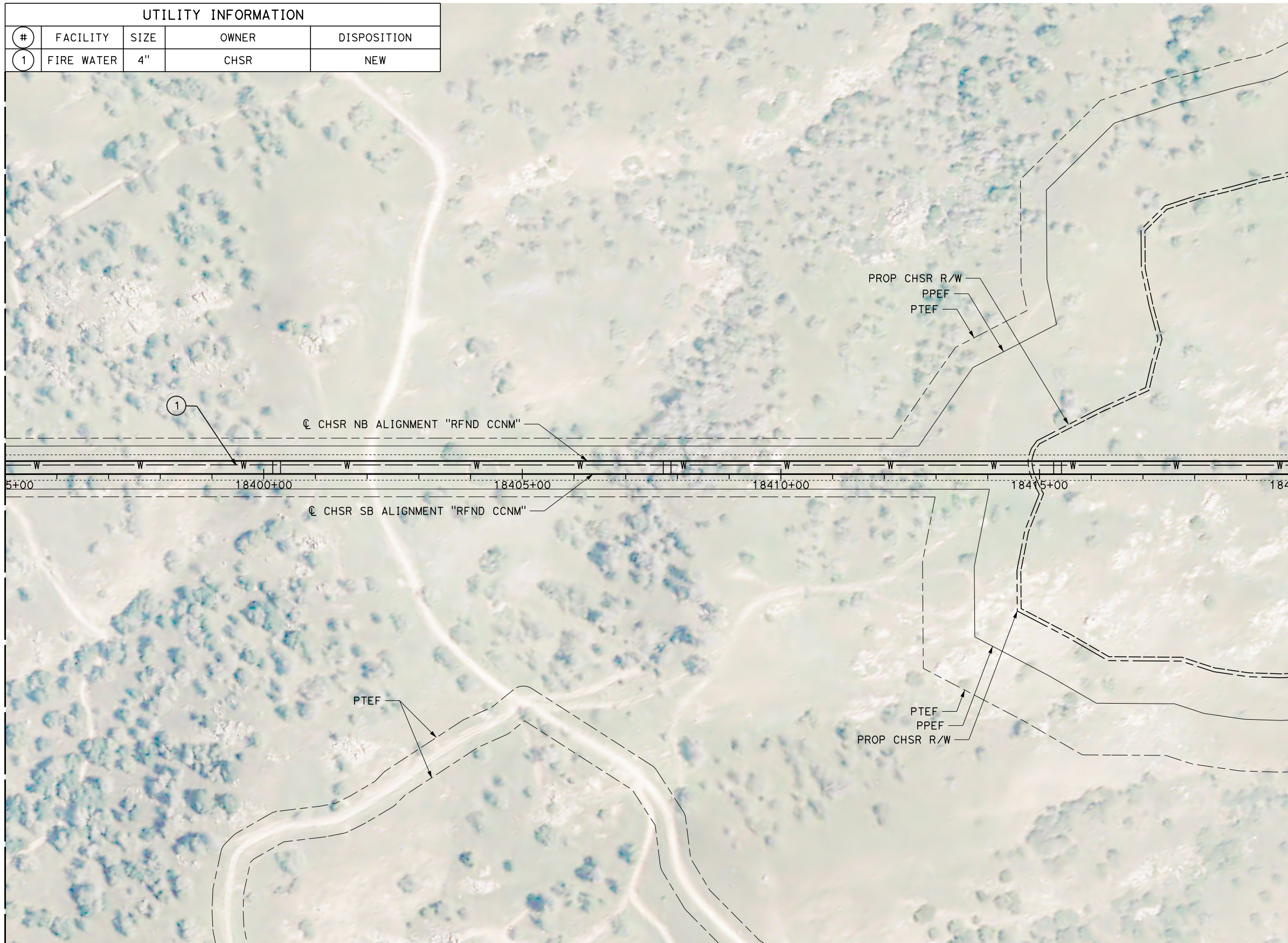
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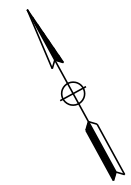
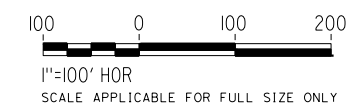
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UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW

MATCH LINE STA 18395+00  
SEE SHEET UT-C4704



MATCH LINE STA 18420+00  
SEE SHEET UT-C4706



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BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18395+00 TO 18420+00  
PLAN

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
UT-C4705  
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SHEET NO.



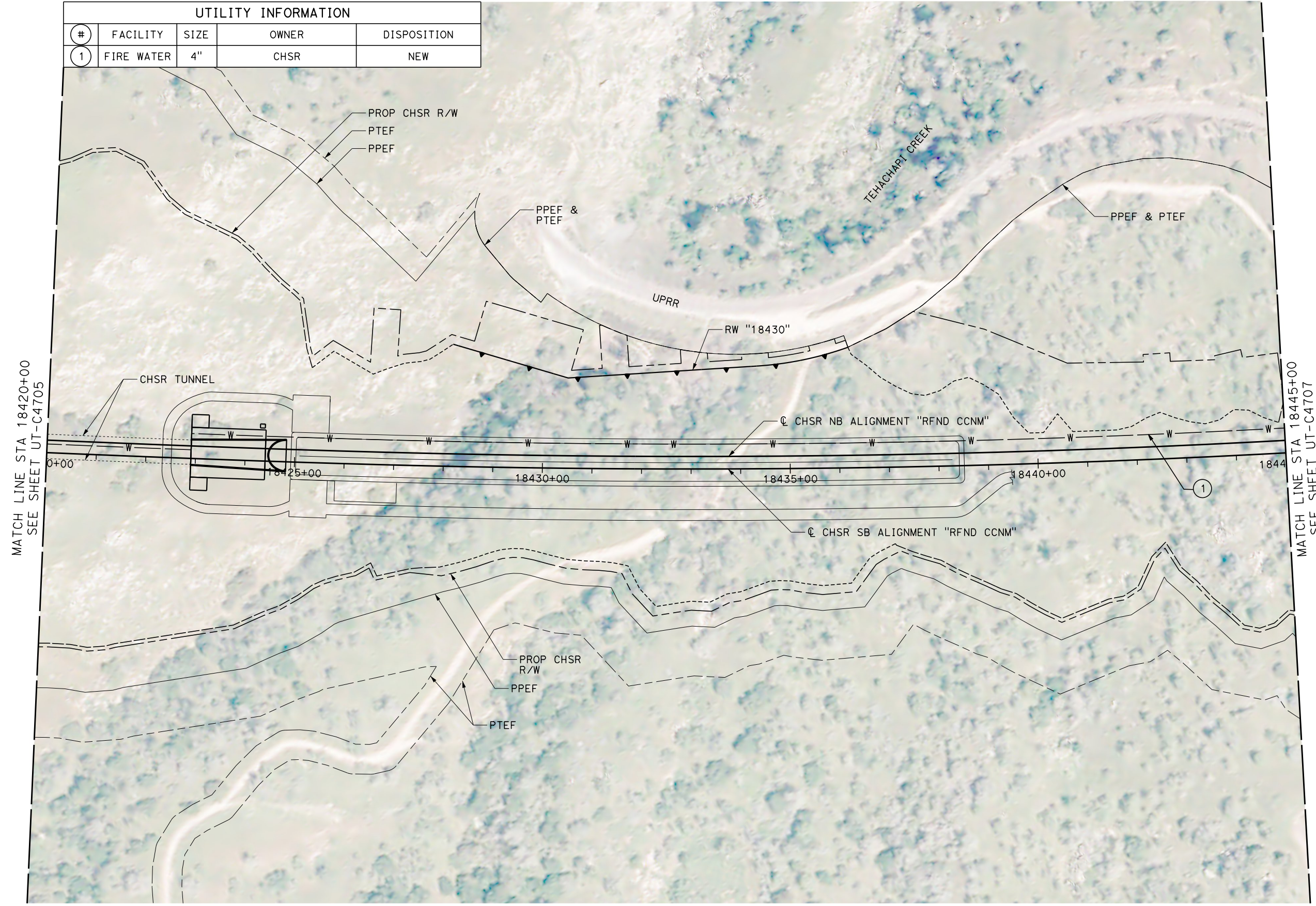
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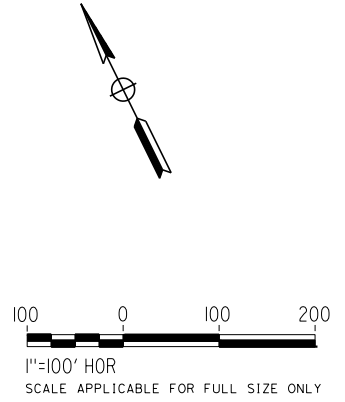
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UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW



MATCH LINE STA 18420+00  
SEE SHEET UT-C4705

MATCH LINE STA 18445+00  
SEE SHEET UT-C4707



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
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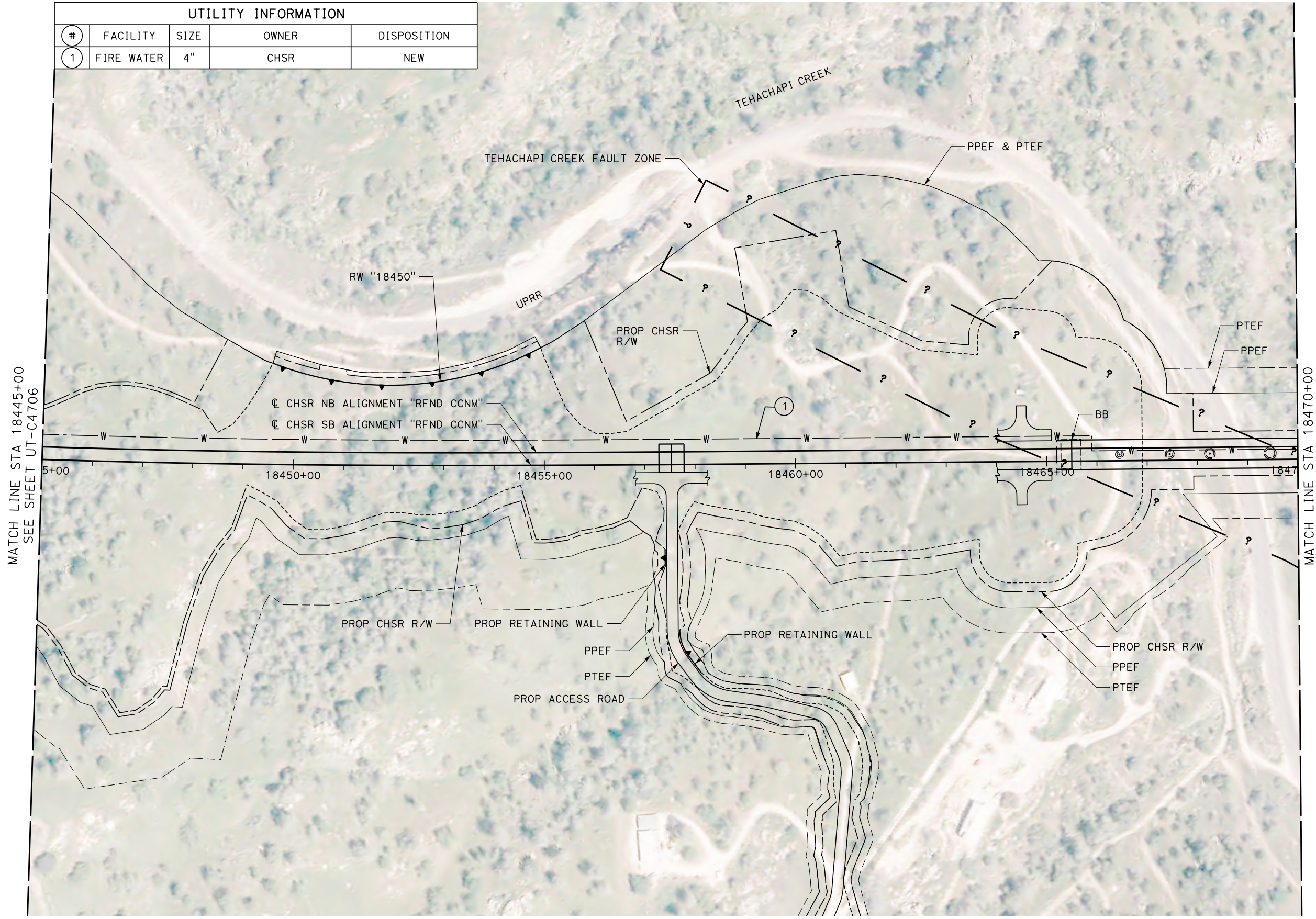


**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18420+00 TO 18445+00  
PLAN

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
UT-C4706  
SCALE  
AS SHOWN  
SHEET NO.



UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4707

11:18:20 PM

1/22/2020

javier\_lopez@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18445+00 TO 18470+00  
PLAN

CONTRACT NO.  
**HSR13-44**

DRAWING NO.  
**UT-C4707**

SCALE  
**AS SHOWN**

SHEET NO.



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4708

11:15:53 PM

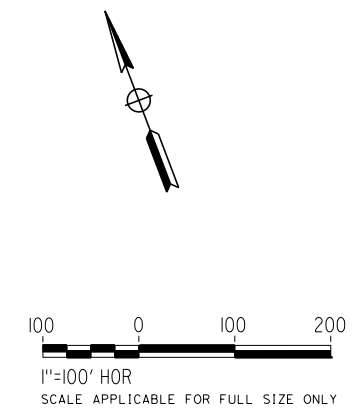
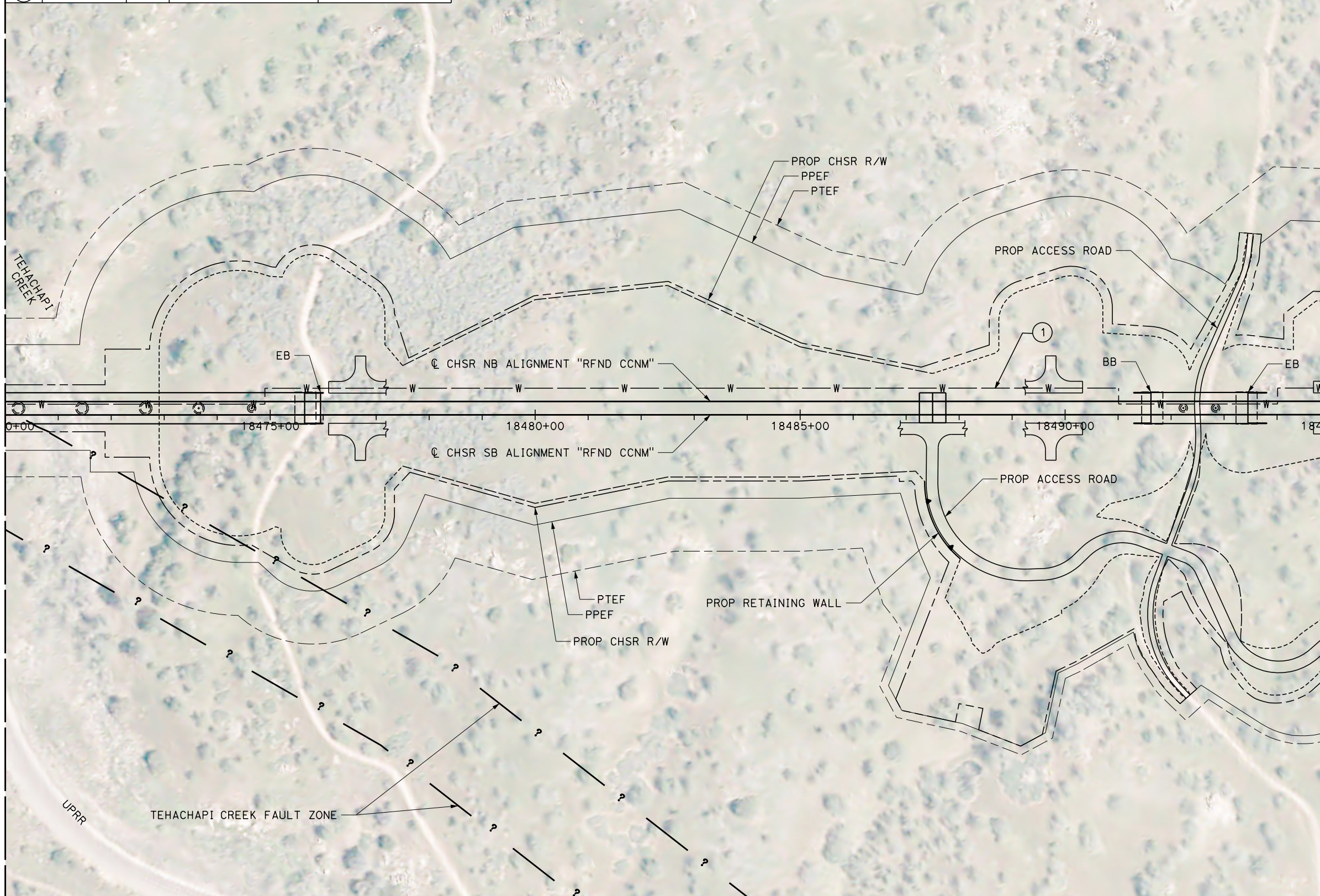
1/22/2020

javier\_lopez@tylin.com

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW

MATCH LINE STA 18470+00  
SEE SHEET UT-C4707

MATCH LINE STA 18495+00  
SEE SHEET UT-C4709



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18470+00 TO 18495+00  
PLAN

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
UT-C4708  
SCALE  
AS SHOWN  
SHEET NO.



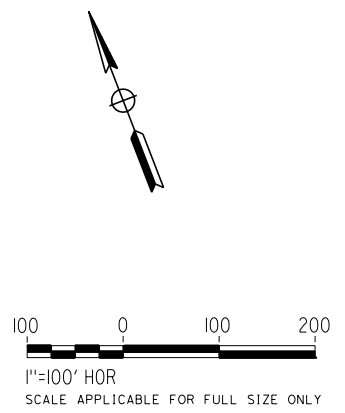
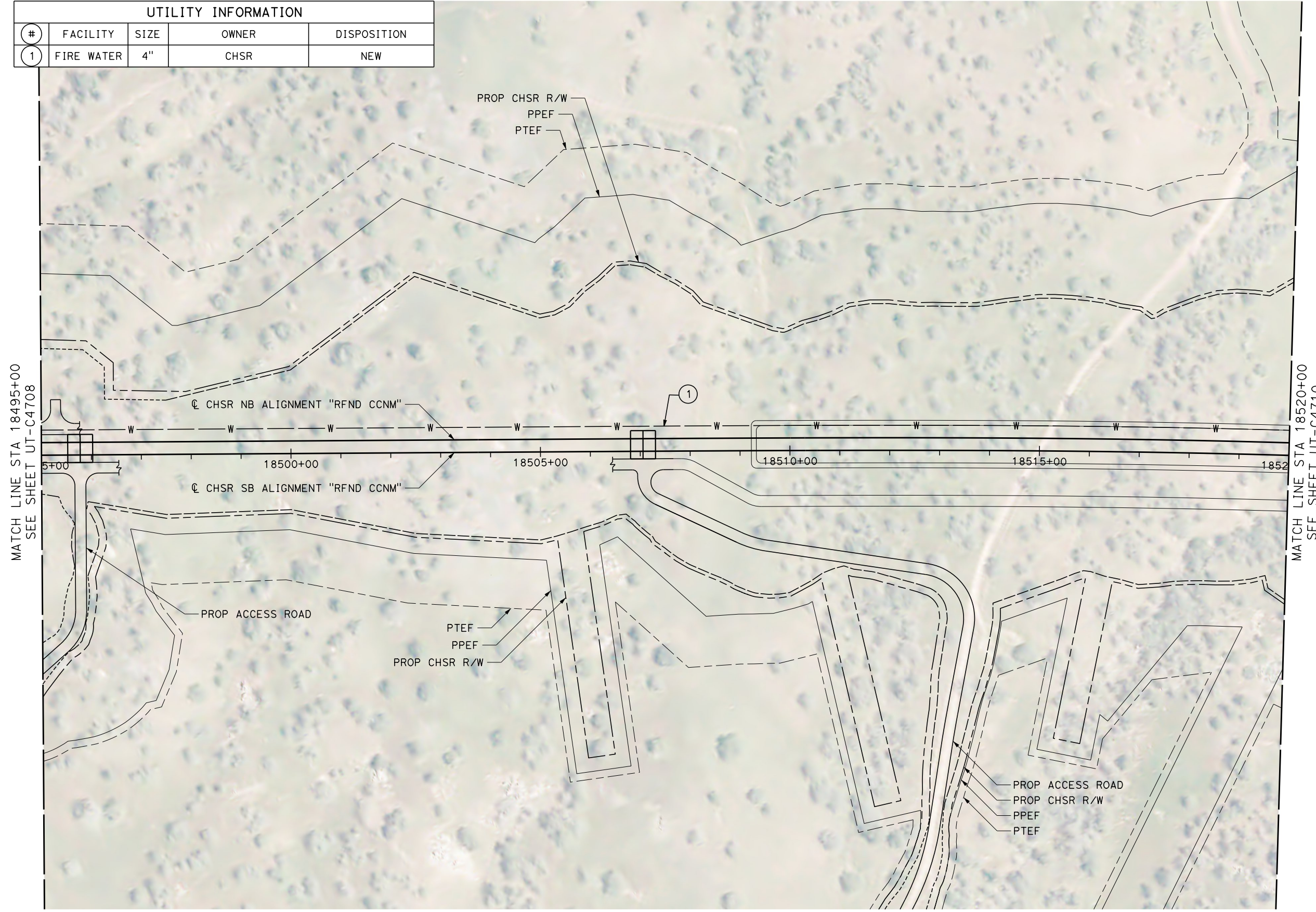
Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4709

11:18:44 PM

1/22/2020

javier\_lopez@tylin.com

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**

DRAWN BY  
**J. LOPEZ**

CHECKED BY  
**J. TURRELL**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18495+00 TO 18520+00  
PLAN

CONTRACT NO.  
**HSR13-44**

DRAWING NO.  
**UT-C4709**

SCALE  
**AS SHOWN**

SHEET NO.



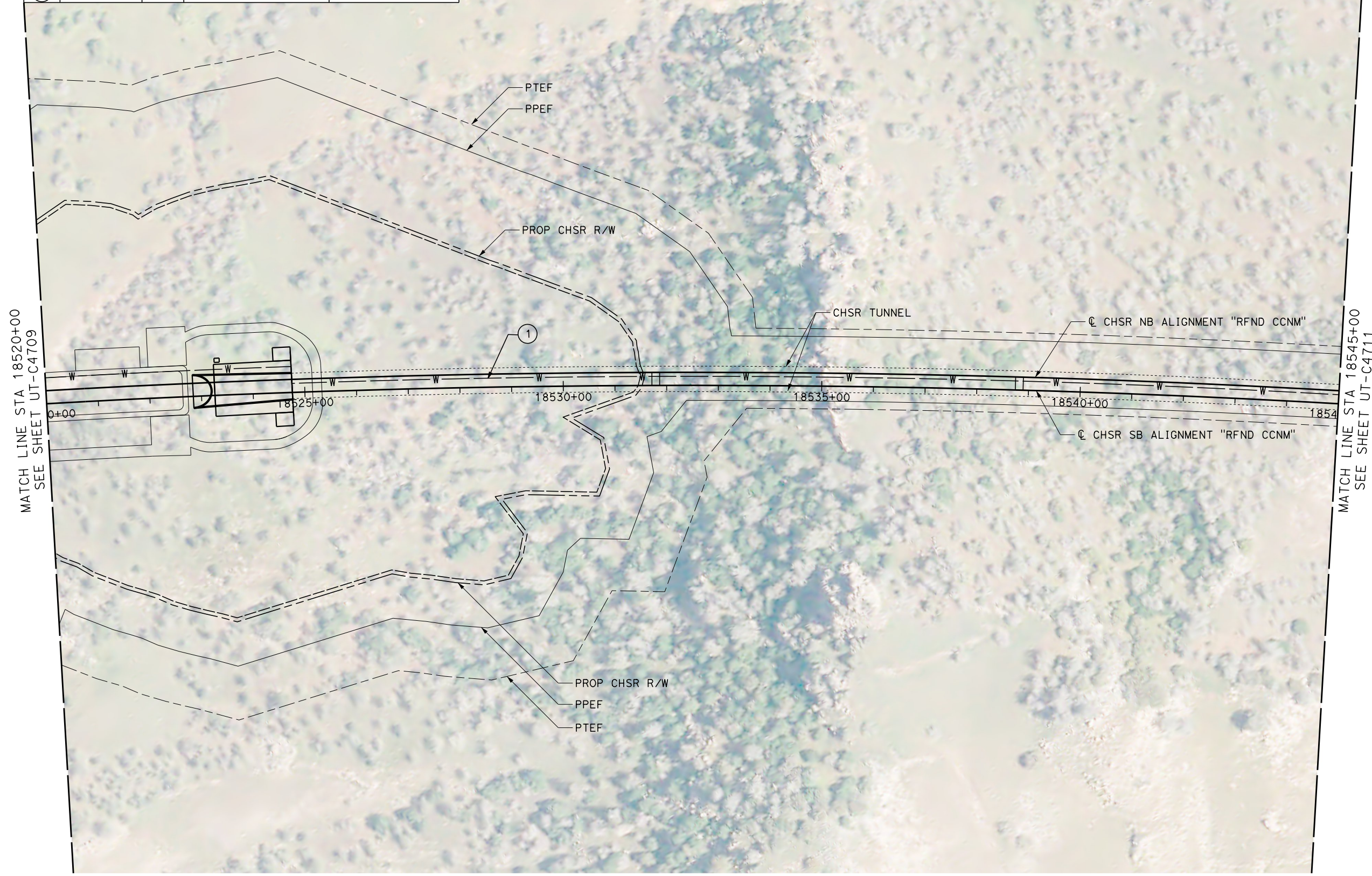
Projects\701206.00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4710

11:16:25 PM

1/22/2020

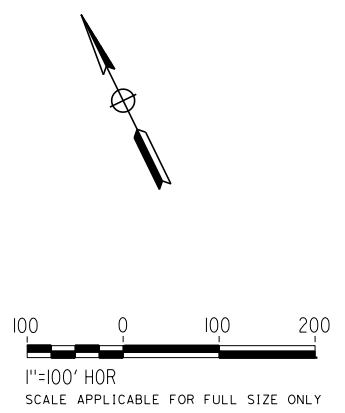
javier\_lopez@tylin.com

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW



MATCH LINE STA 18545+00  
SEE SHEET UT-C4711

MATCH LINE STA 18520+00  
SEE SHEET UT-C4709



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18520+00 TO 18545+00  
PLAN

CONTRACT NO.  
**HSR13-44**

DRAWING NO.  
**UT-C4710**

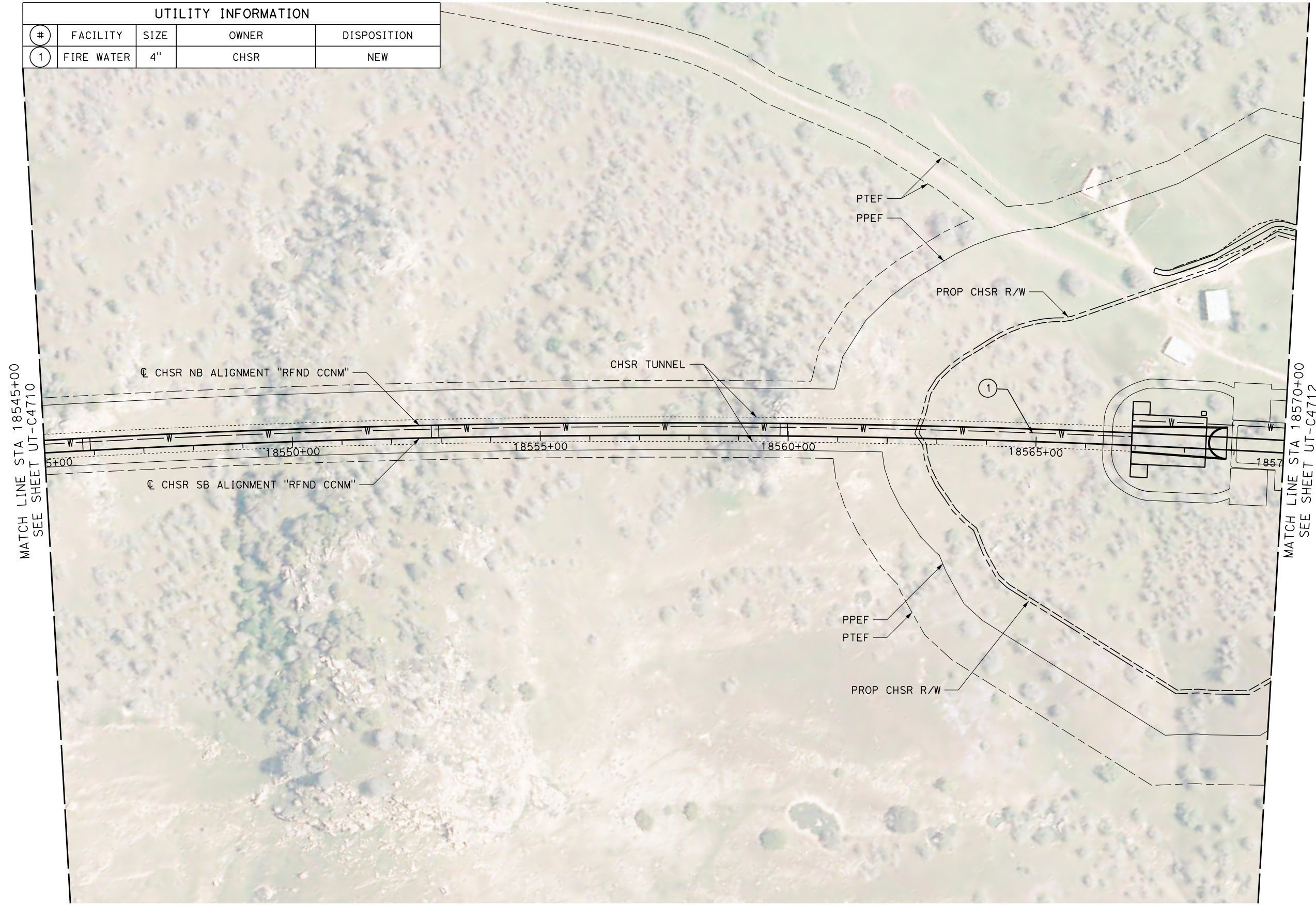
SCALE  
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SHEET NO.



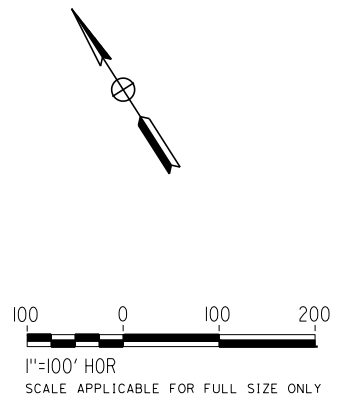
Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4711 1/22/2020 11:18:38 PM javier\_lopez@tylin.com

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW



MATCH LINE STA 18545+00  
SEE SHEET UT-C4710

MATCH LINE STA 18570+00  
SEE SHEET UT-C4712



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18545+00 TO 18570+00  
PLAN

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
UT-C4711  
SCALE  
AS SHOWN  
SHEET NO.



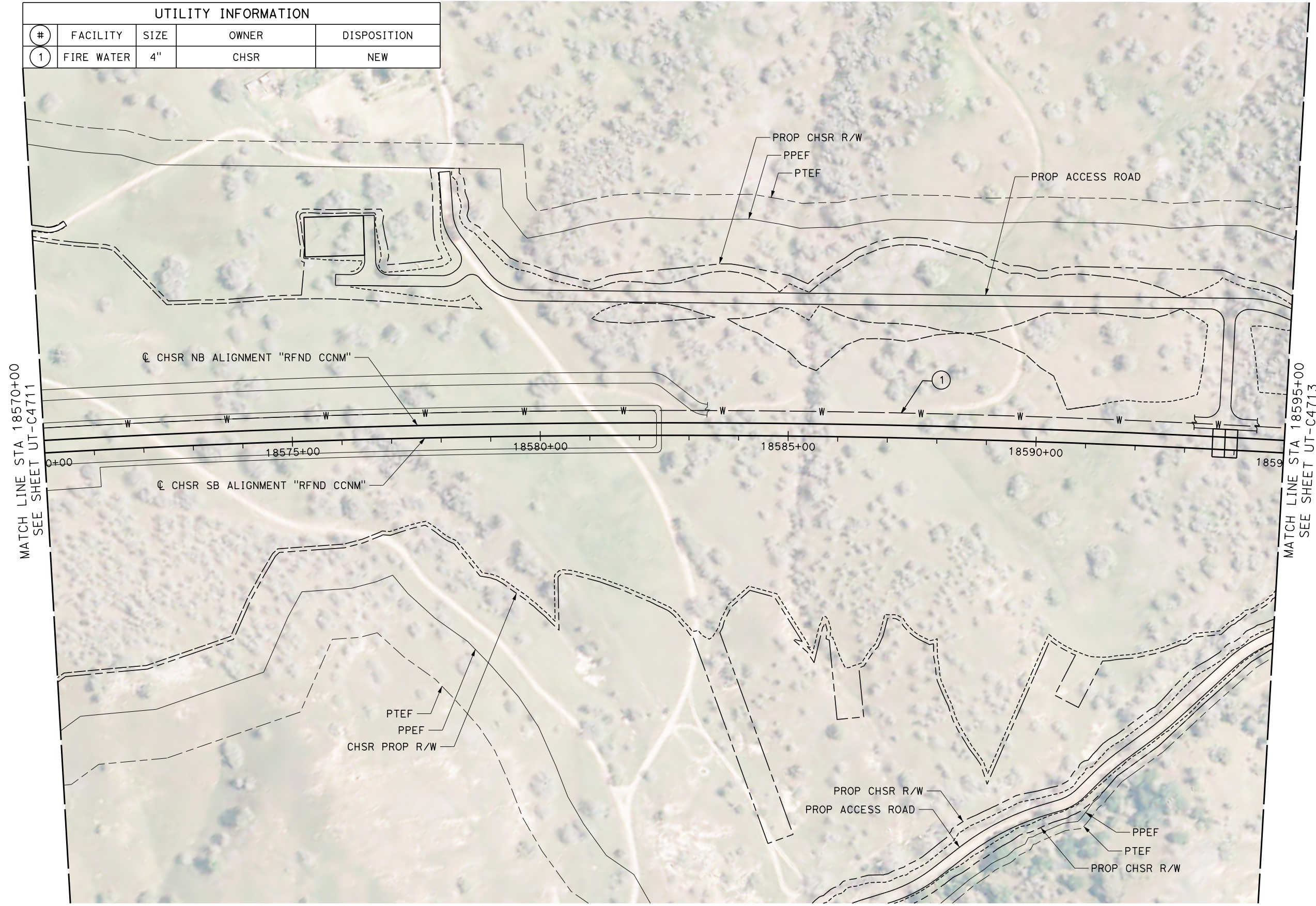
Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4712

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1/22/2020

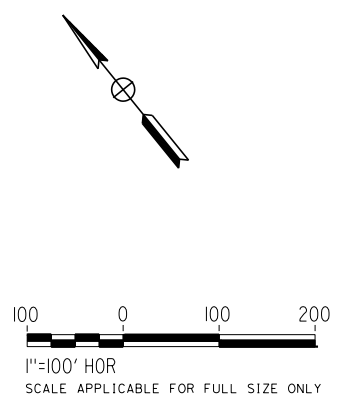
javier\_lopez@tylin.com

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW



MATCH LINE STA 18570+00  
SEE SHEET UT-C4711

MATCH LINE STA 18595+00  
SEE SHEET UT-C4713



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18570+00 TO 18595+00  
PLAN

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
UT-C4712  
SCALE  
AS SHOWN  
SHEET NO.



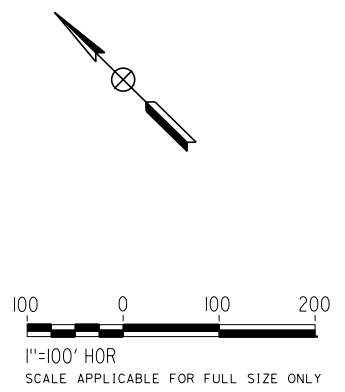
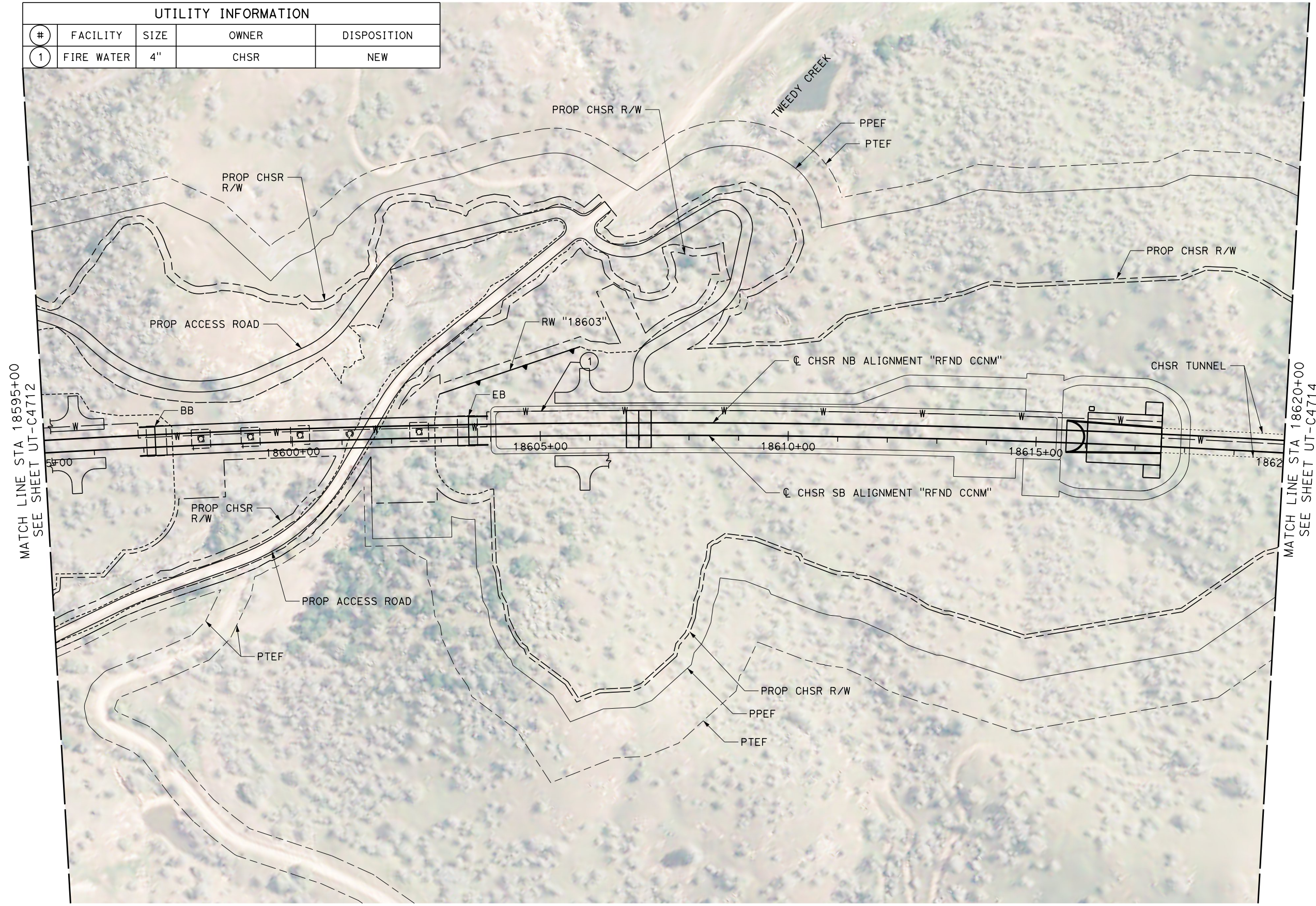
Projects\701206.00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4713

11:18:48 PM

1/22/2020

javier\_lopez@tylin.com

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18595+00 TO 18620+00  
PLAN

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
UT-C4713  
SCALE  
AS SHOWN  
SHEET NO.



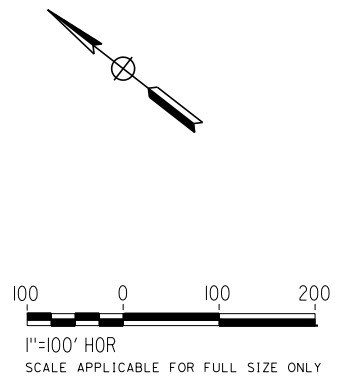
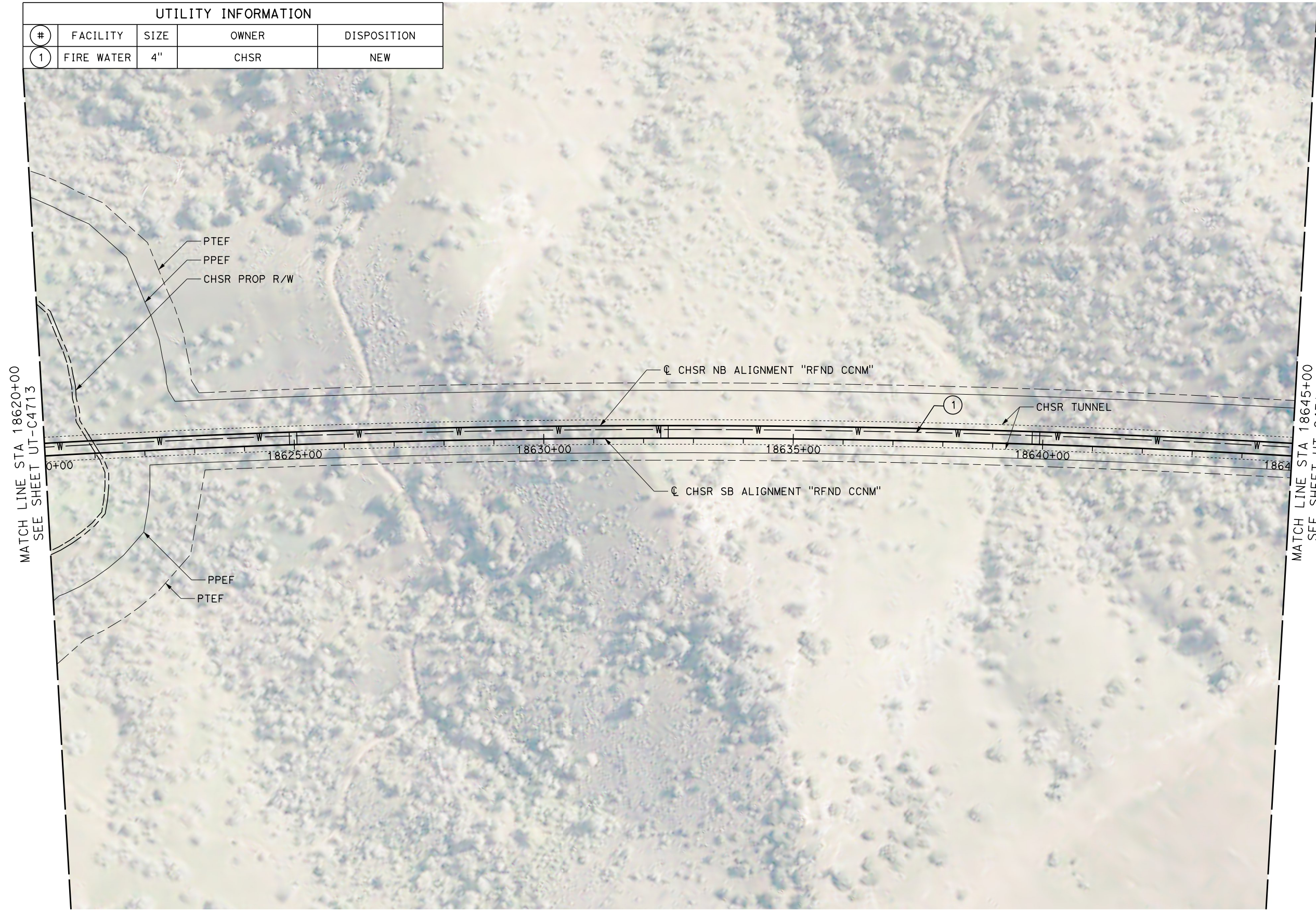
Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4714

11:16:30 PM

1/22/2020

javier\_lopez@tylin.com

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**

DRAWN BY  
**J. LOPEZ**

CHECKED BY  
**J. TURRELL**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18620+00 TO 18645+00  
PLAN

CONTRACT NO.  
HSR13-44

DRAWING NO.  
UT-C4714

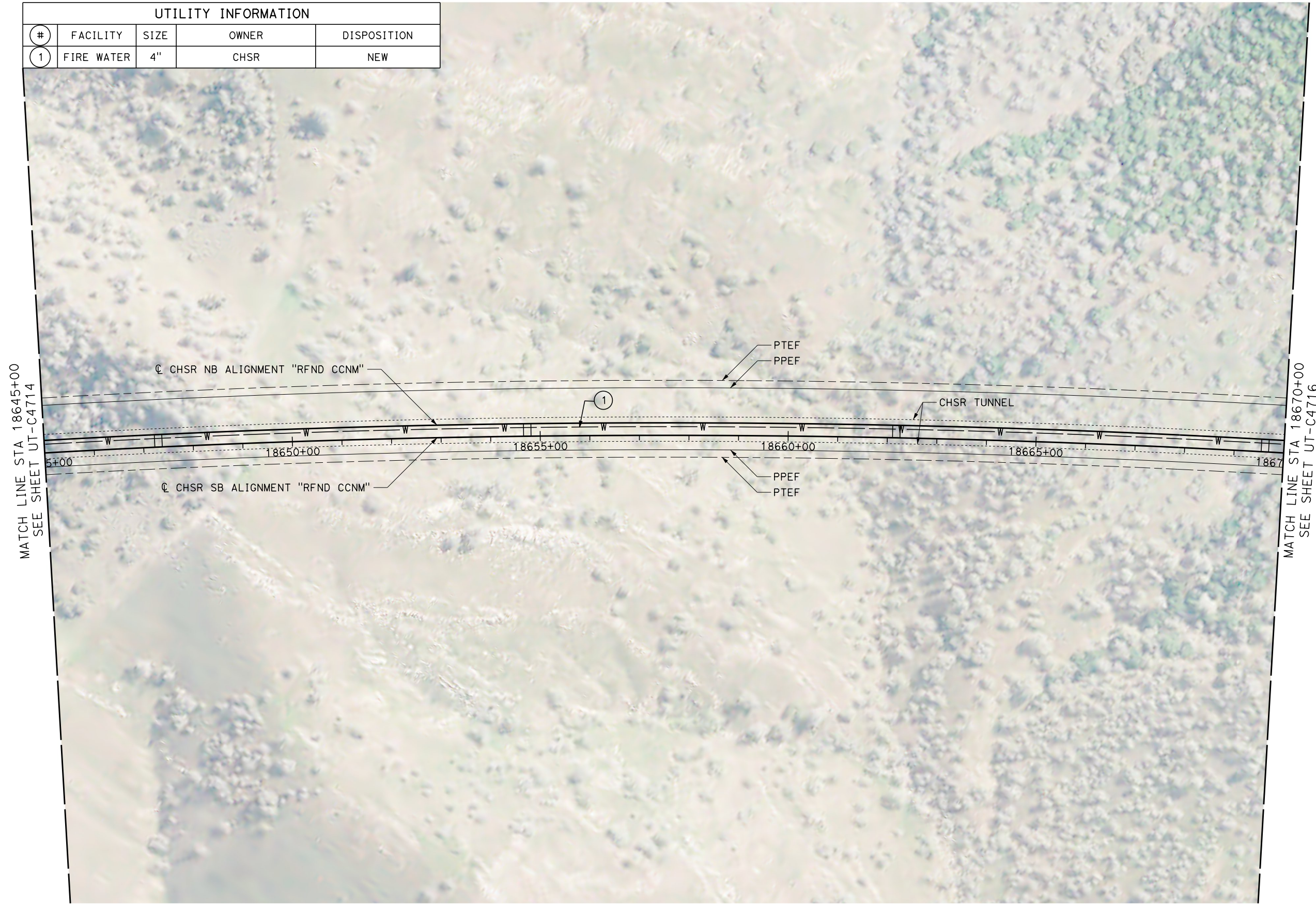
SCALE  
AS SHOWN

SHEET NO.



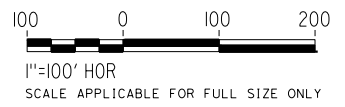
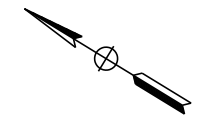
Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4715 1/22/2020 11:18:51 PM javier\_lopez@tylin.com

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW



MATCH LINE STA 18645+00  
SEE SHEET UT-C4714

MATCH LINE STA 18670+00  
SEE SHEET UT-C4716



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18645+00 TO 18670+00  
PLAN

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
UT-C4715  
SCALE  
AS SHOWN  
SHEET NO.



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4716

11:16:22 PM

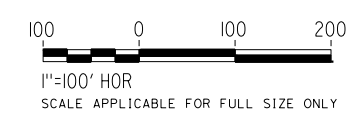
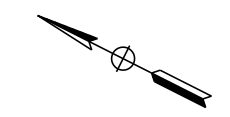
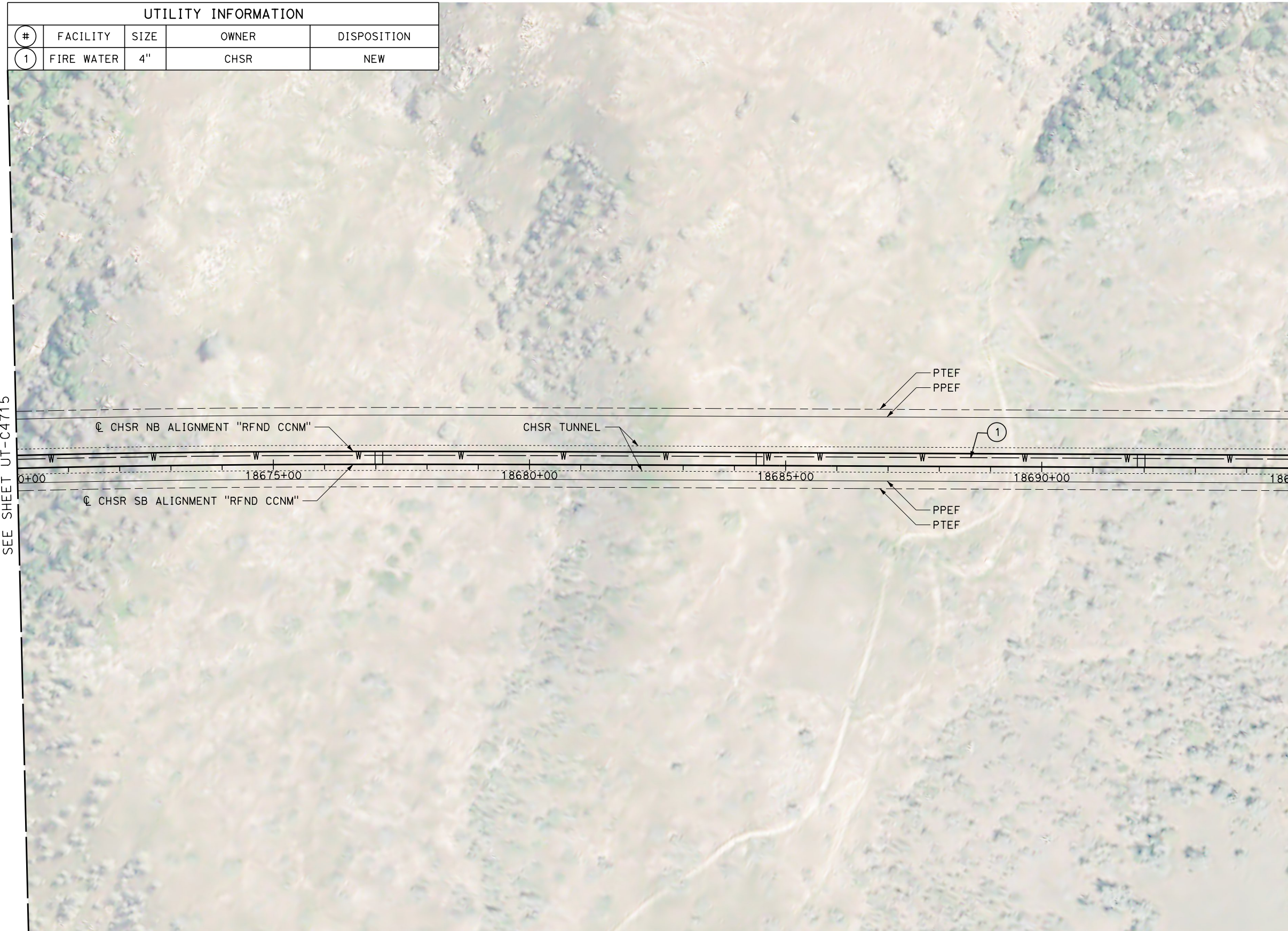
1/22/2020

javier\_lopez@tylin.com

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW

MATCH LINE STA 18670+00  
SEE SHEET UT-C4715

MATCH LINE STA 18695+00  
SEE SHEET UT-C4717



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**

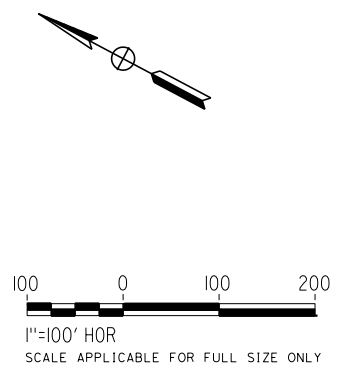
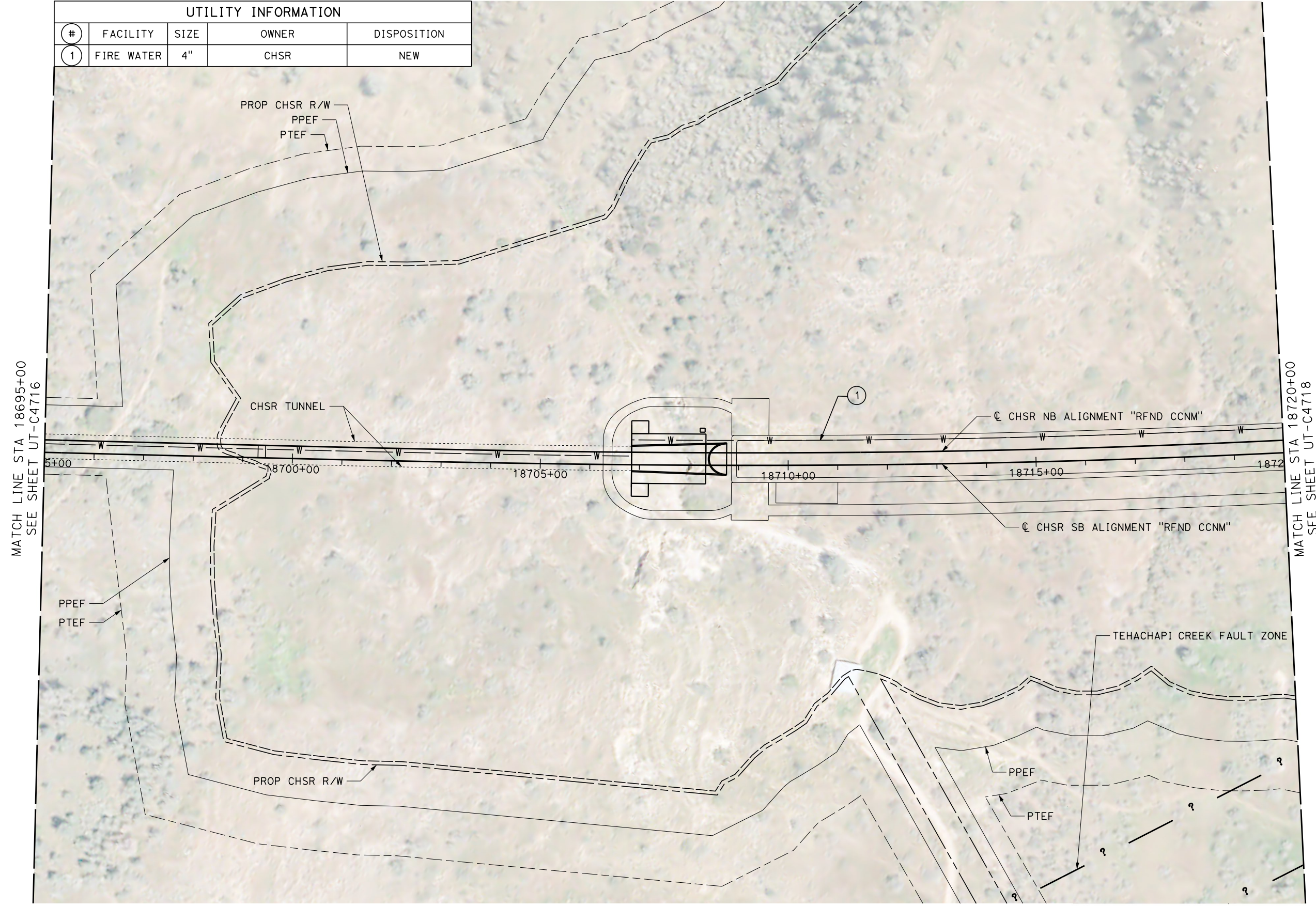


**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18670+00 TO 18695+00  
PLAN

CONTRACT NO.  
**HSR13-44**  
DRAWING NO.  
**UT-C4716**  
SCALE  
**AS SHOWN**  
SHEET NO.



UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4717

11:19:15 PM

1/22/2020

javier\_lopez@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
 DRAWN BY  
**J. LOPEZ**  
 CHECKED BY  
**J. TURRELL**  
 IN CHARGE  
**G. CAMPBELL**  
 DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
 REFINED CCNM DESIGN OPTION  
 COMPOSITE UTILITY PLAN  
 STA 18695+00 TO 18720+00  
 PLAN

CONTRACT NO.  
**HSR13-44**  
 DRAWING NO.  
**UT-C4717**  
 SCALE  
**AS SHOWN**  
 SHEET NO.



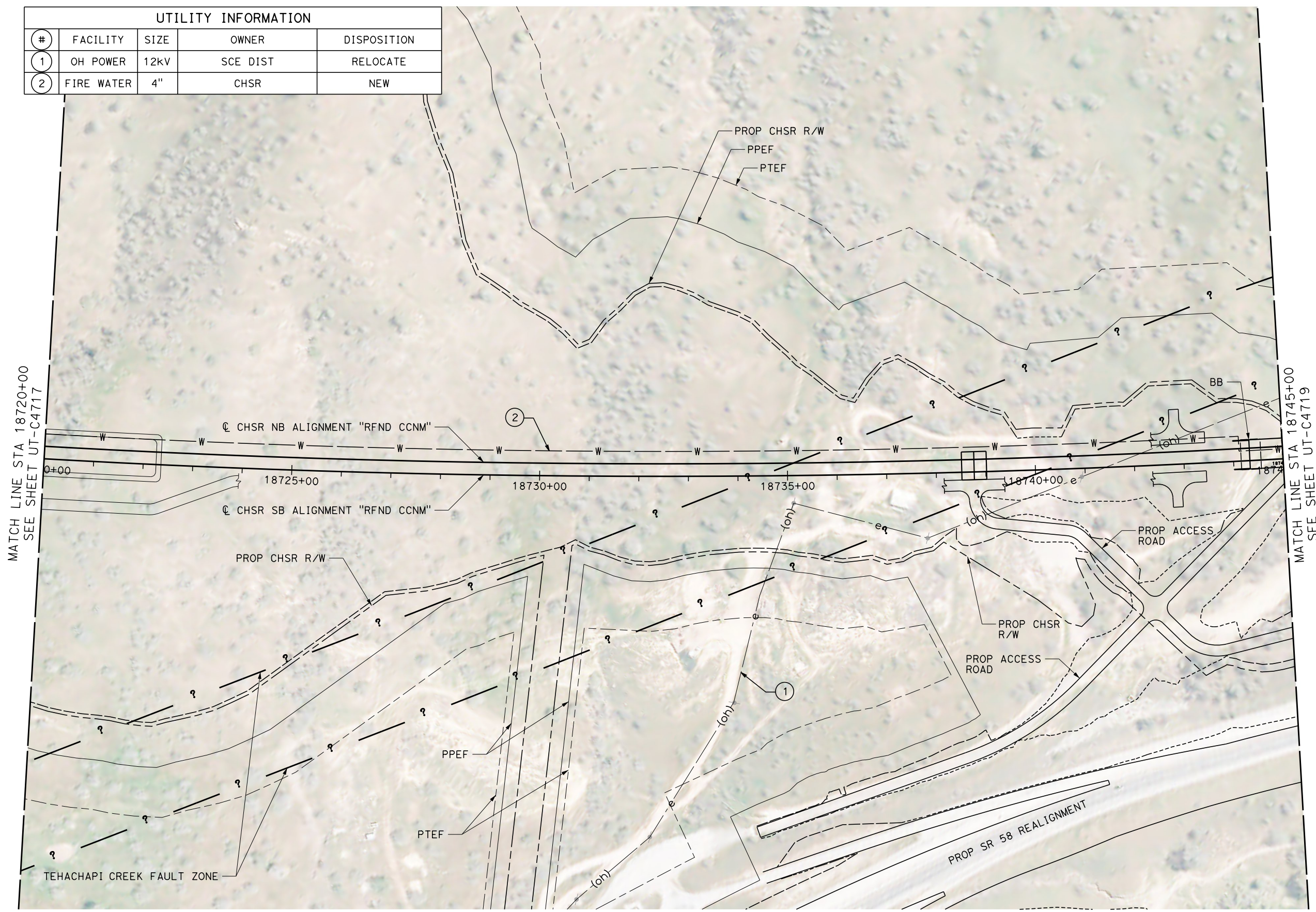
Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4718

11:17:01 PM

1/22/2020

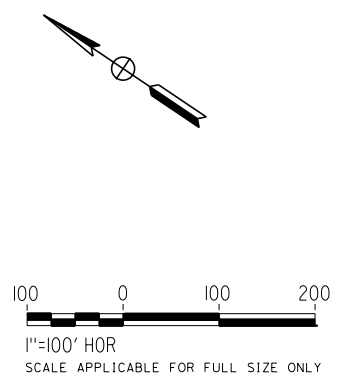
javier\_lopez@tylin.com

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	SCE DIST	RELOCATE
2	FIRE WATER	4"	CHSR	NEW



MATCH LINE STA 18720+00  
SEE SHEET UT-C4717

MATCH LINE STA 18745+00  
SEE SHEET UT-C4719



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**

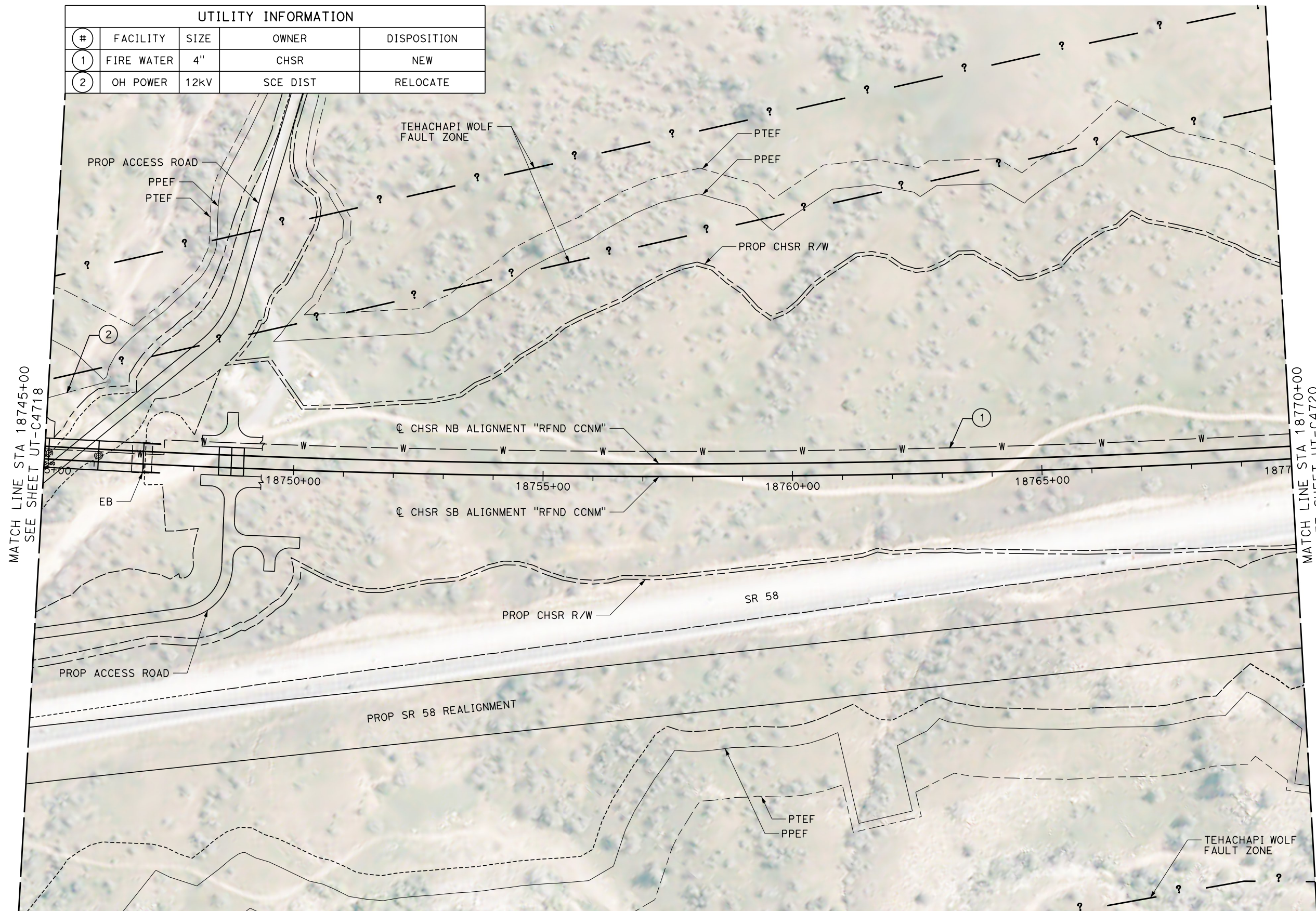


**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18720+00 TO 18745+00  
PLAN

CONTRACT NO.  
**HSR13-44**  
DRAWING NO.  
**UT-C4718**  
SCALE  
**AS SHOWN**  
SHEET NO.

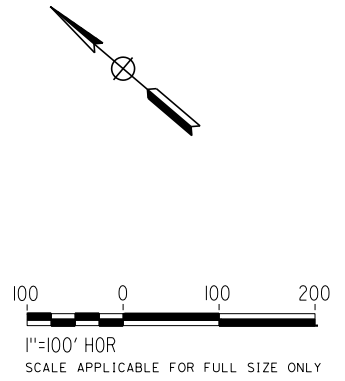


UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW
2	OH POWER	12kV	SCE DIST	RELOCATE



MATCH LINE STA 18745+00  
SEE SHEET UT-C4718

MATCH LINE STA 18770+00  
SEE SHEET UT-C4720



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4719 1/22/2020 11:19:10 PM javier\_lopez@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18745+00 TO 18770+00  
PLAN

CONTRACT NO.  
**HSR13-44**  
DRAWING NO.  
**UT-C4719**  
SCALE  
**AS SHOWN**  
SHEET NO.



UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW

TEHACHAPI CREEK FAULT ZONE

PROP CHSR R/W  
PPEF  
PTEF

CHSR NB ALIGNMENT "RFND CCNM"

CHSR SB ALIGNMENT "RFND CCNM"

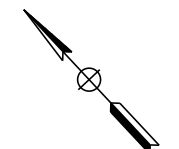
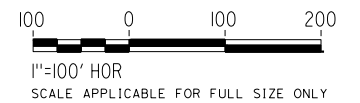
PROP SR 58 REALIGNMENT

TEHACHAPI CREEK FAULT ZONE

PPEF  
PTEF

MATCH LINE STA 18770+00  
SEE SHEET UT-C4719

MATCH LINE STA 18795+00  
SEE SHEET UT-C4721



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4720

1/22/2020 11:17:04 PM

1/22/2020

javier\_lopez@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



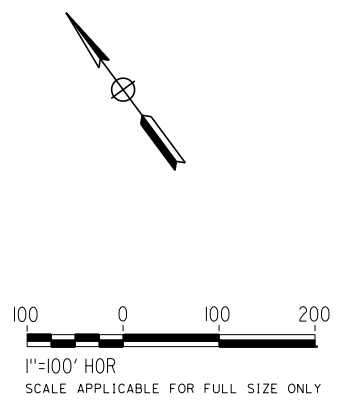
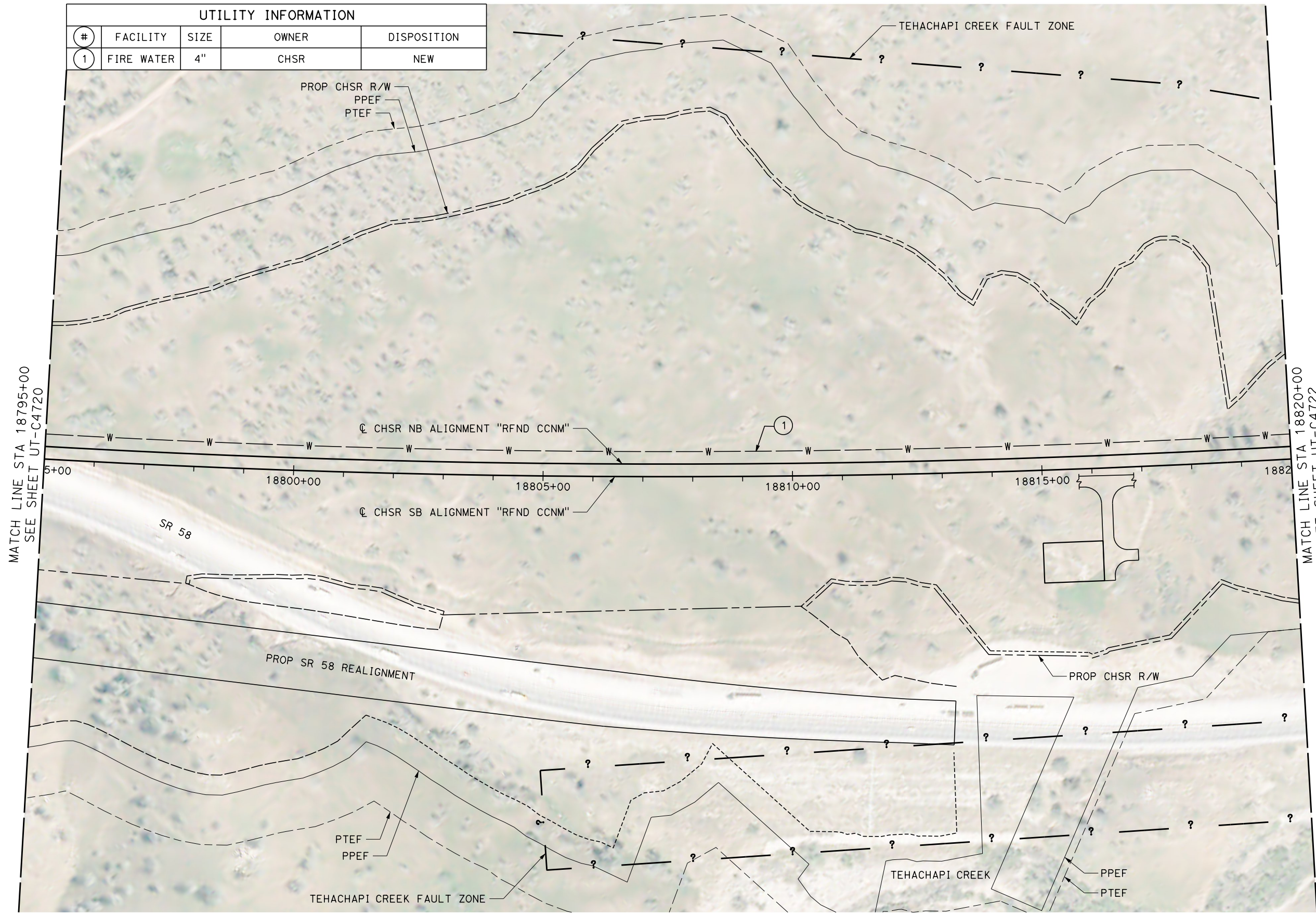
**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18770+00 TO 18795+00  
PLAN

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
UT-C4720  
SCALE  
AS SHOWN  
SHEET NO.



UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4721

1/22/2020 11:19:18 PM

1/22/2020

javier\_lopez@tylin.com

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**

DRAWN BY  
**J. LOPEZ**

CHECKED BY  
**J. TURRELL**

IN CHARGE  
**G. CAMPBELL**

DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18795+00 TO 18820+00  
PLAN

CONTRACT NO.  
HSR13-44

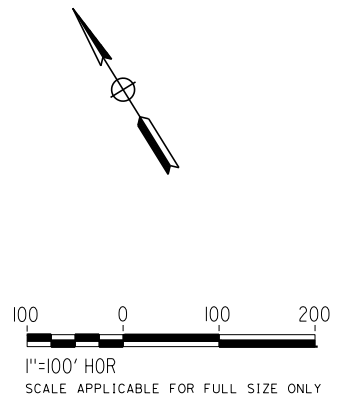
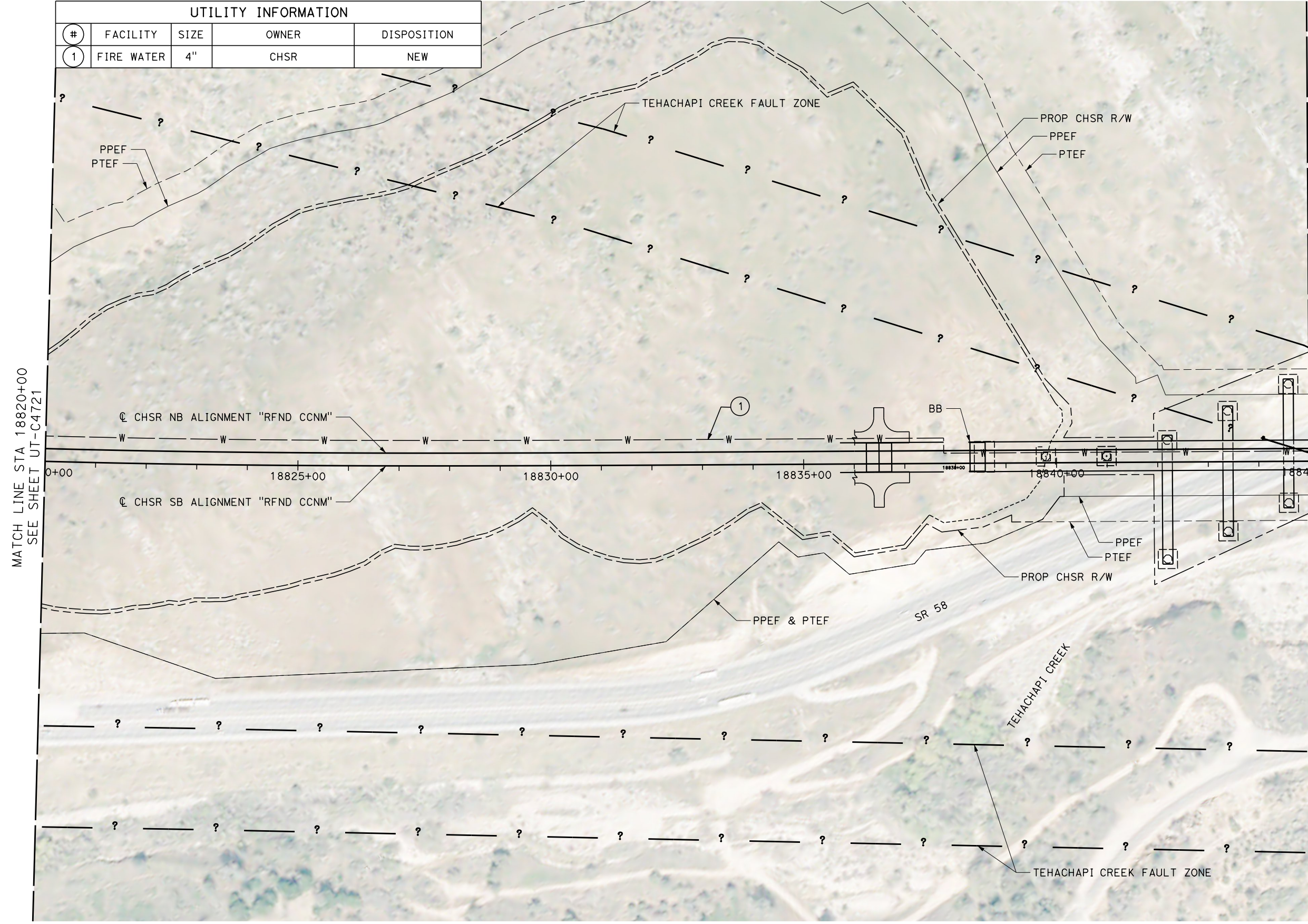
DRAWING NO.  
UT-C4721

SCALE  
AS SHOWN

SHEET NO.



UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4722

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1/22/2020

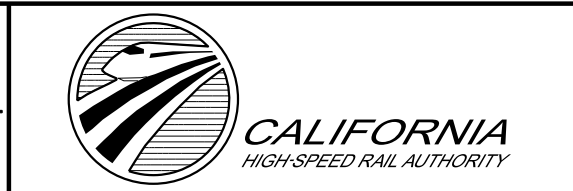
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18820+00 TO 18845+00  
PLAN

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
UT-C4722  
SCALE  
AS SHOWN  
SHEET NO.



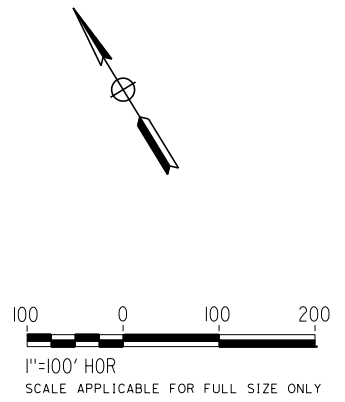
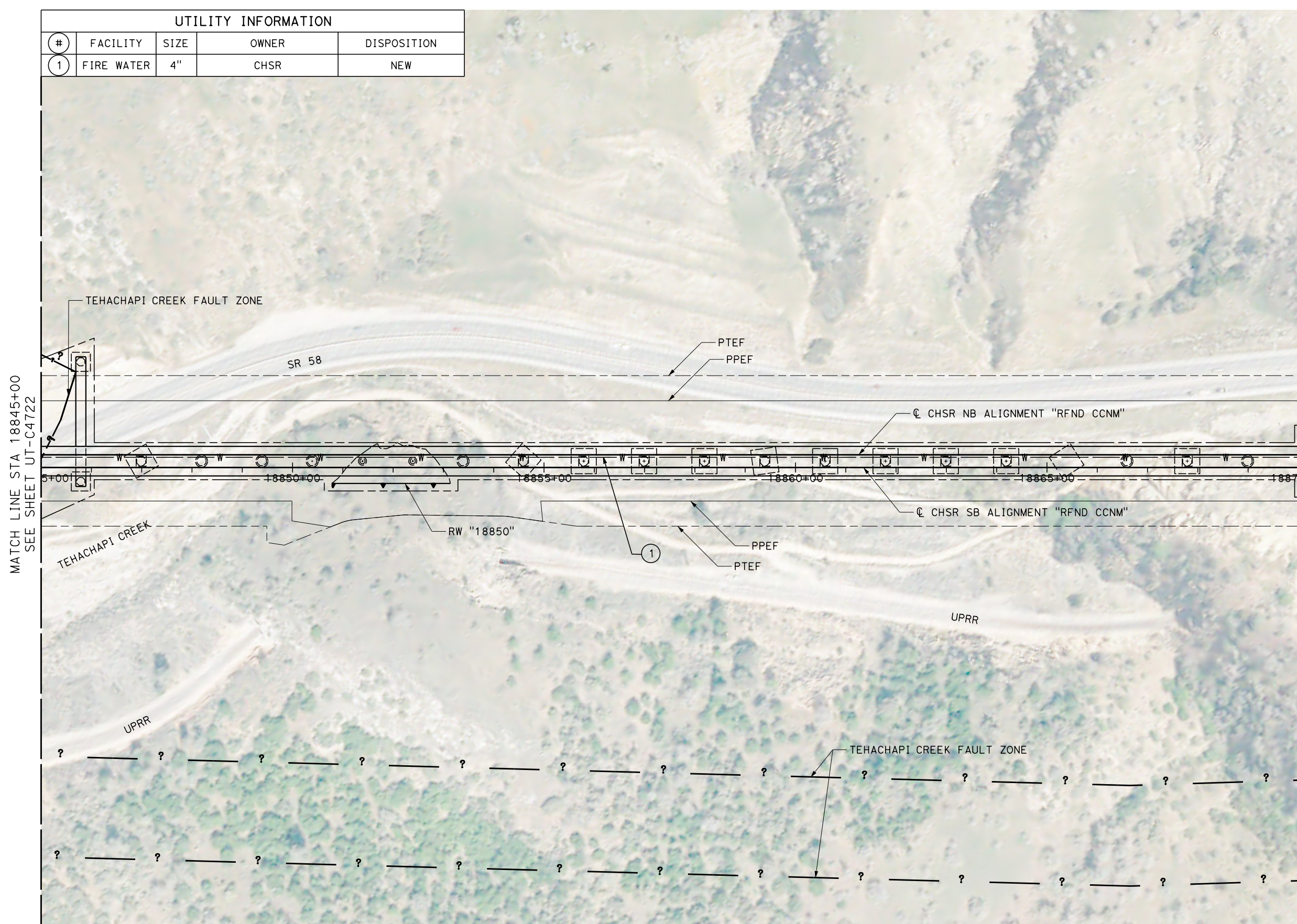
Projects\701206\_00\_CHSRBP\00\_CADD\CCNM\_Option\_D\Sheets\UT\BP-UT-C4723

1/22/2020 11:19:29 PM

1/22/2020

javier\_lopez@tylin.com

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18845+00 TO 18870+00  
PLAN

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
UT-C4723  
SCALE  
AS SHOWN  
SHEET NO.



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4724

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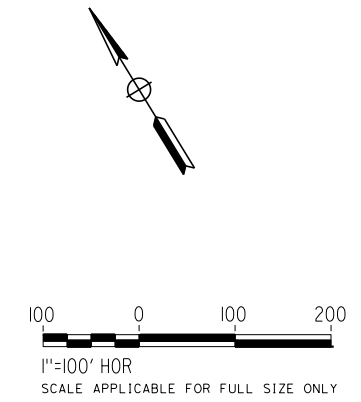
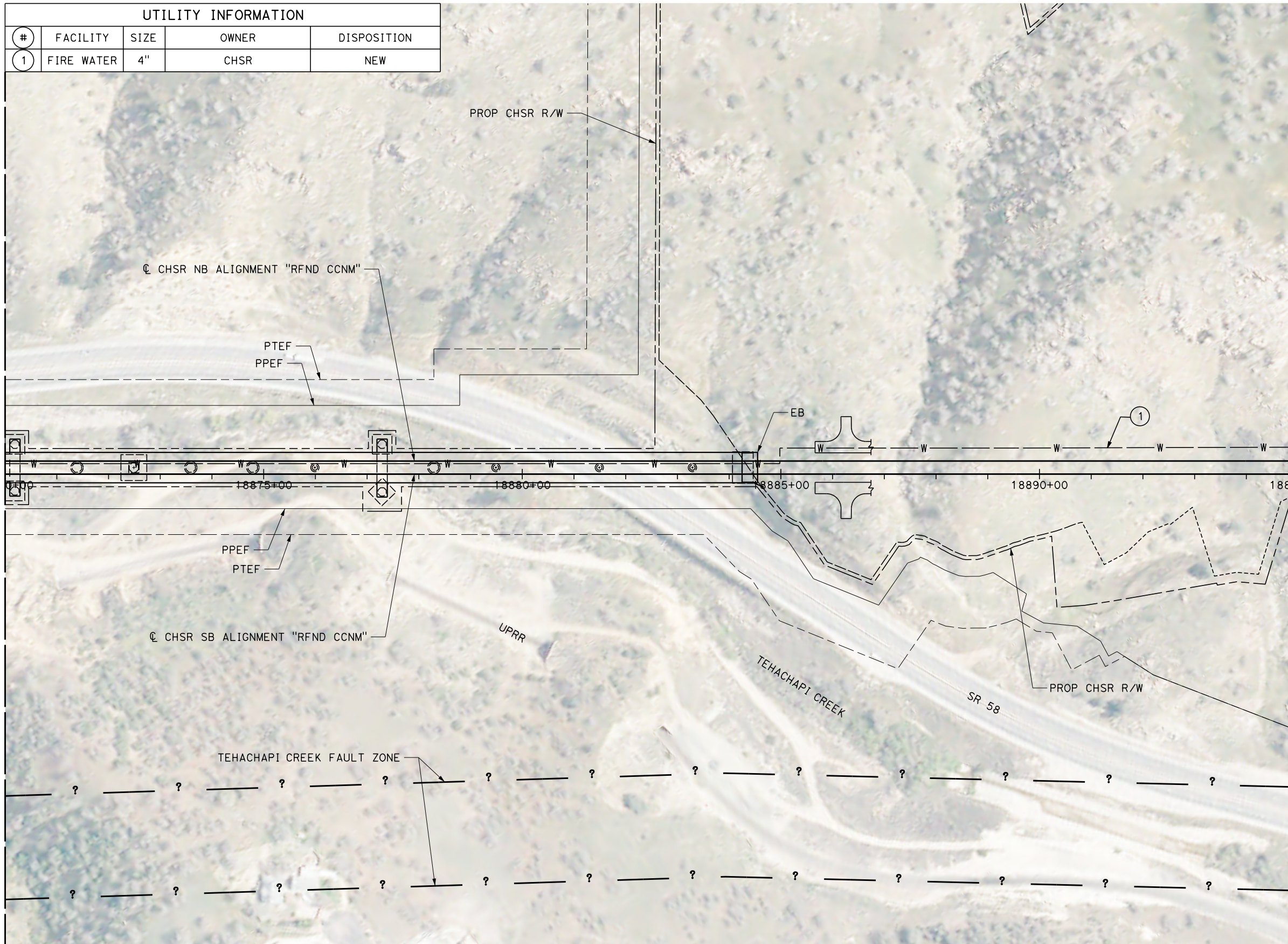
1/22/2020

javier\_lopez@tylin.com

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW

MATCH LINE STA 18870+00  
SEE SHEET UT-C4723

MATCH LINE STA 18895+00  
SEE SHEET UT-C4725



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**

**TYLIN INTERNATIONAL**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18870+00 TO 18895+00  
PLAN

CONTRACT NO.  
**HSR13-44**

DRAWING NO.  
**UT-C4724**

SCALE  
**AS SHOWN**

SHEET NO.



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4725

11:19:46 PM

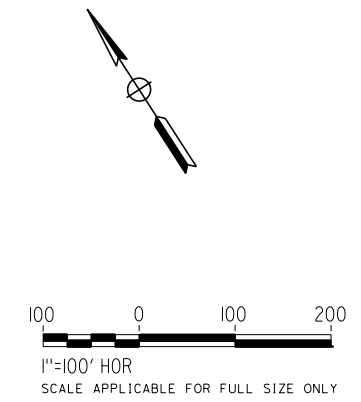
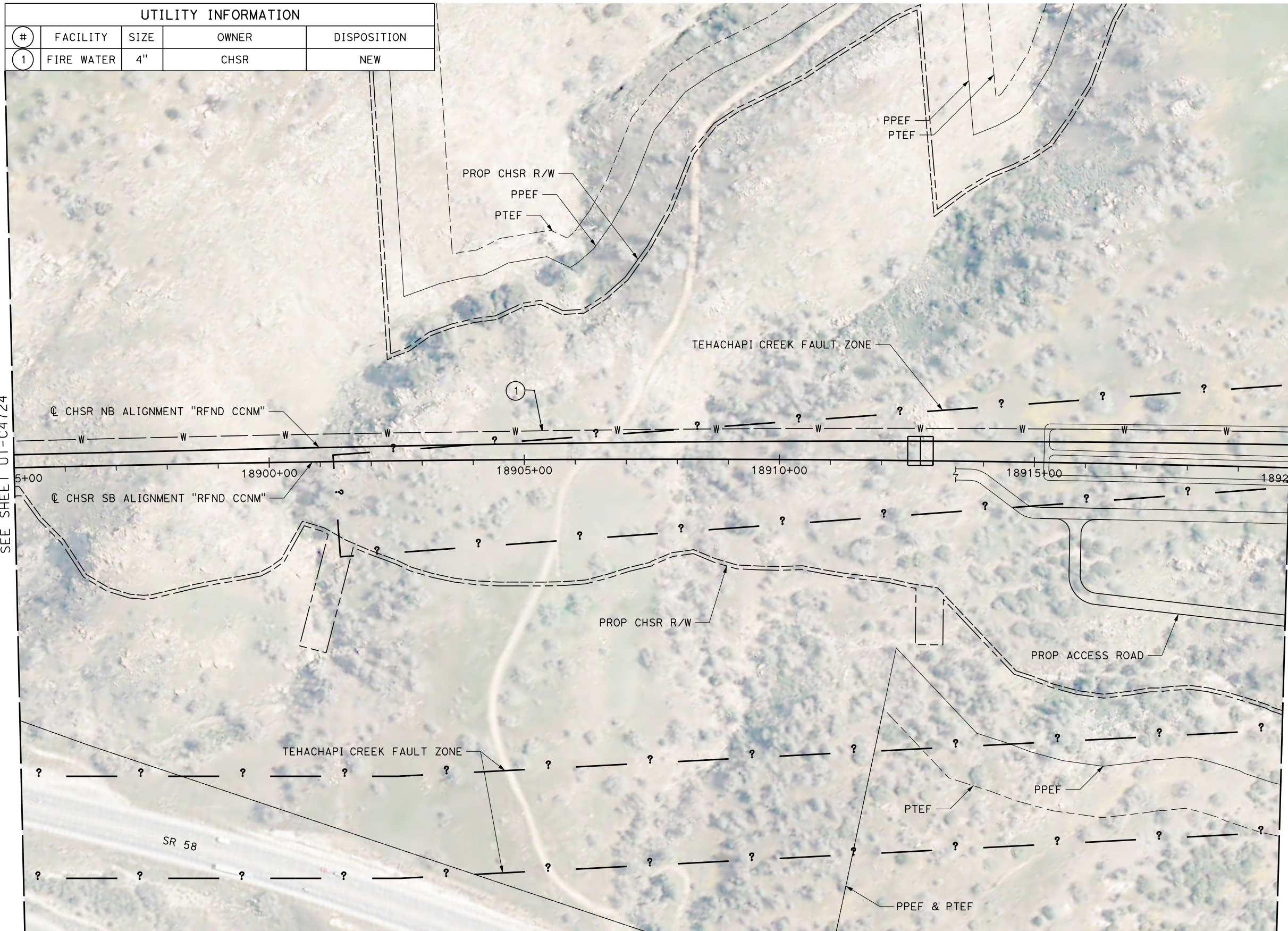
1/22/2020

javier\_lopez@tylin.com

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW

MATCH LINE STA 18895+00  
SEE SHEET UT-C4724

MATCH LINE STA 18920+00  
SEE SHEET UT-C4726



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

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PEPD  
SUBMITTAL**

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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18895+00 TO 18920+00  
PLAN

CONTRACT NO.  
**HSR13-44**  
DRAWING NO.  
**UT-C4725**  
SCALE  
**AS SHOWN**  
SHEET NO.



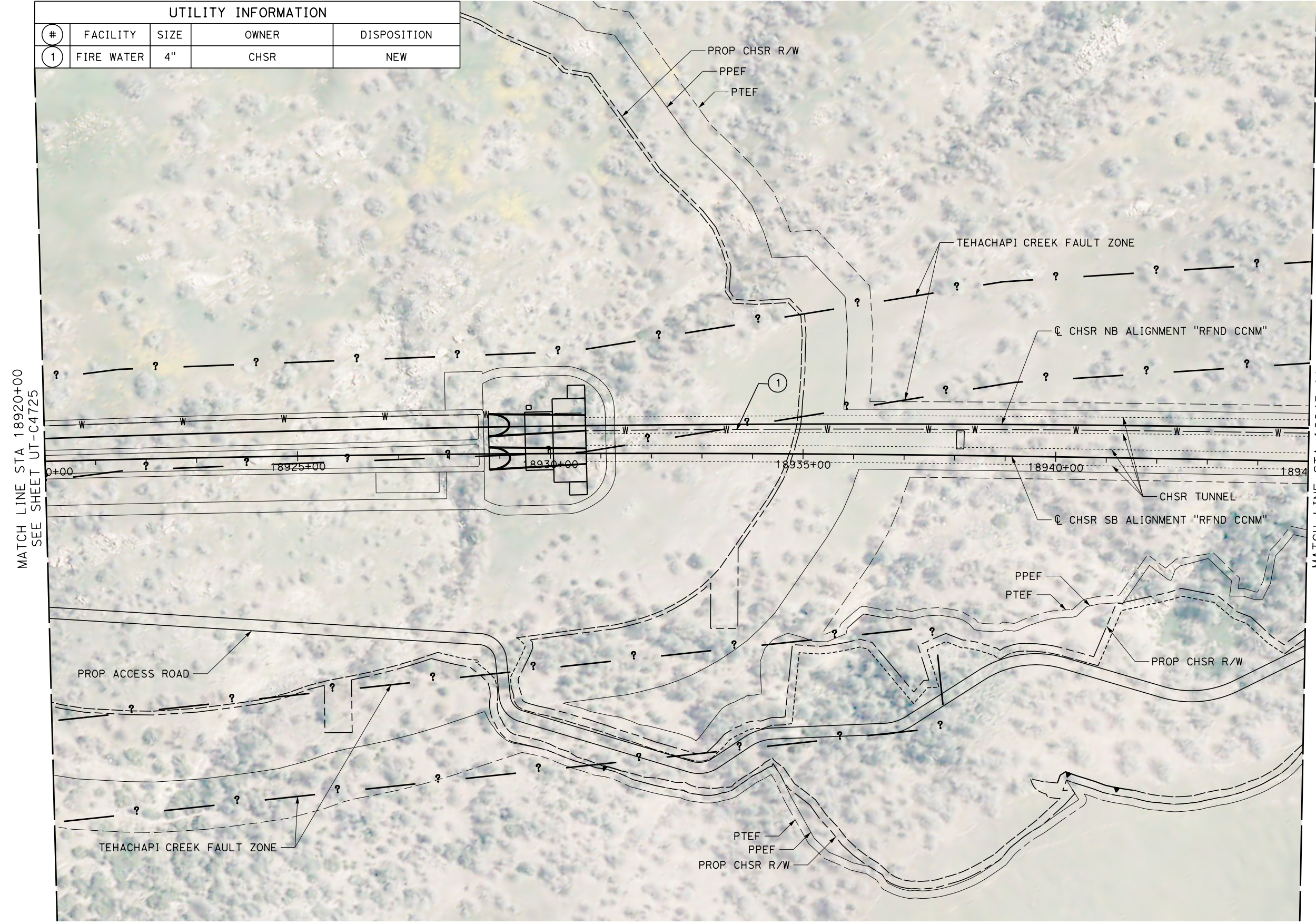
Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4726

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1/22/2020

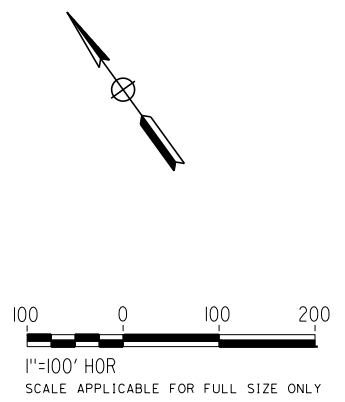
javier\_lopez@tylin.com

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW



MATCH LINE STA 18920+00  
SEE SHEET UT-C4725

MATCH LINE STA 18945+00  
SEE SHEET UT-C4727

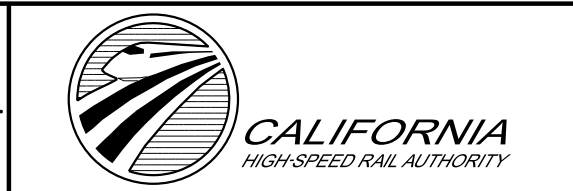


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

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SUBMITTAL**

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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18920+00 TO 18945+00  
PLAN

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
UT-C4726  
SCALE  
AS SHOWN  
SHEET NO.



Projects\701206.00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4727

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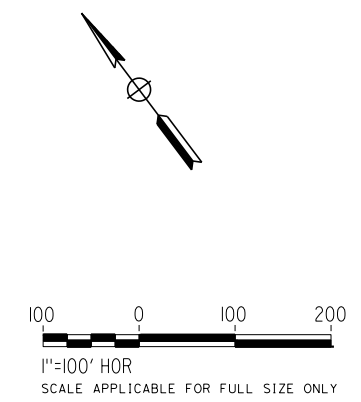
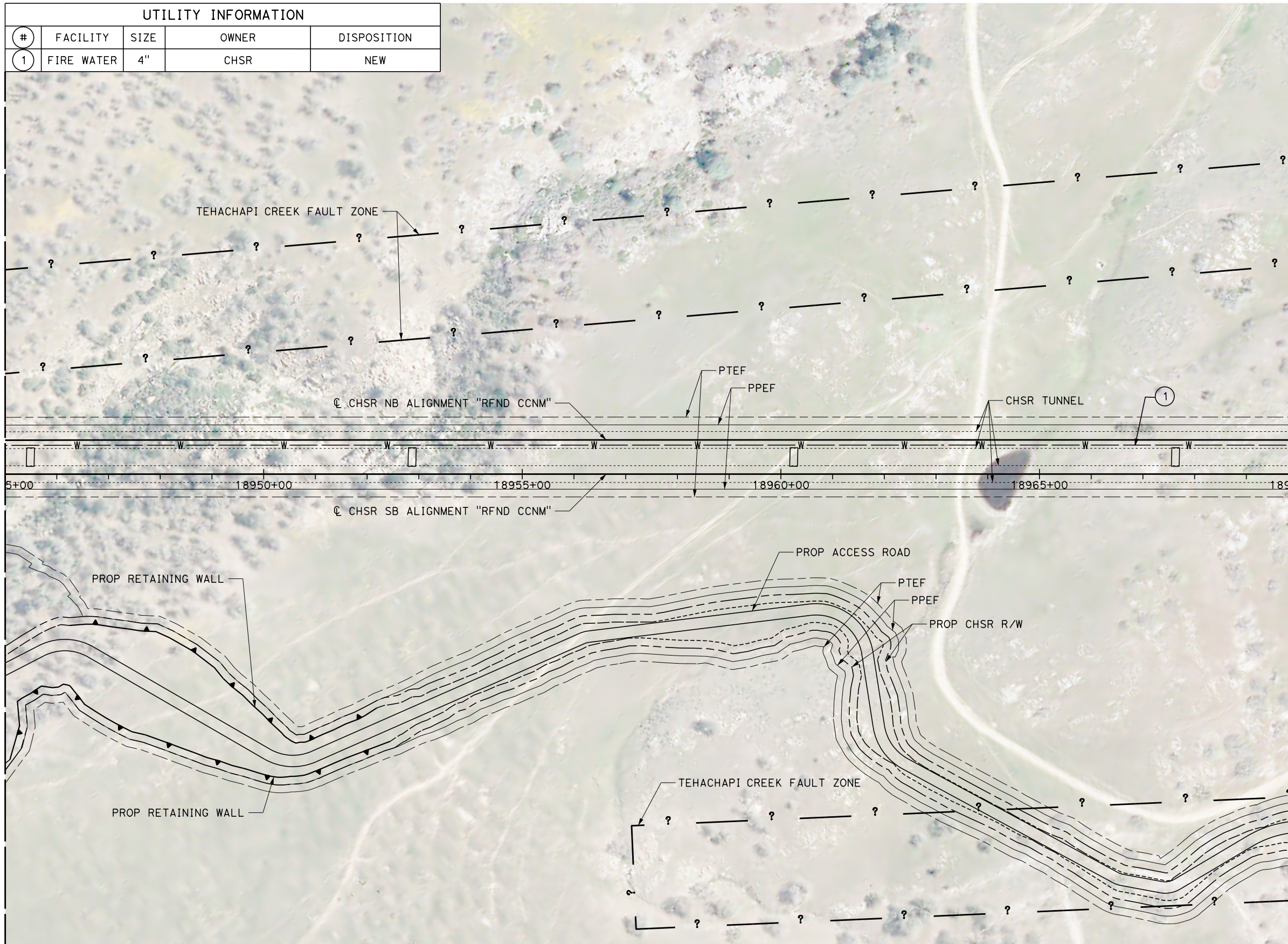
1/22/2020

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UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW

MATCH LINE STA 18945+00  
SEE SHEET UT-C4726

MATCH LINE STA 18970+00  
SEE SHEET UT-C4728



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18945+00 TO 18970+00  
PLAN

CONTRACT NO.  
**HSR13-44**  
DRAWING NO.  
**UT-C4727**  
SCALE  
**AS SHOWN**  
SHEET NO.



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4728

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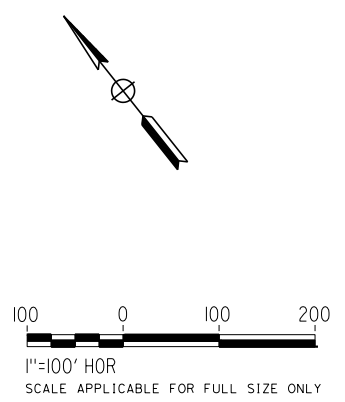
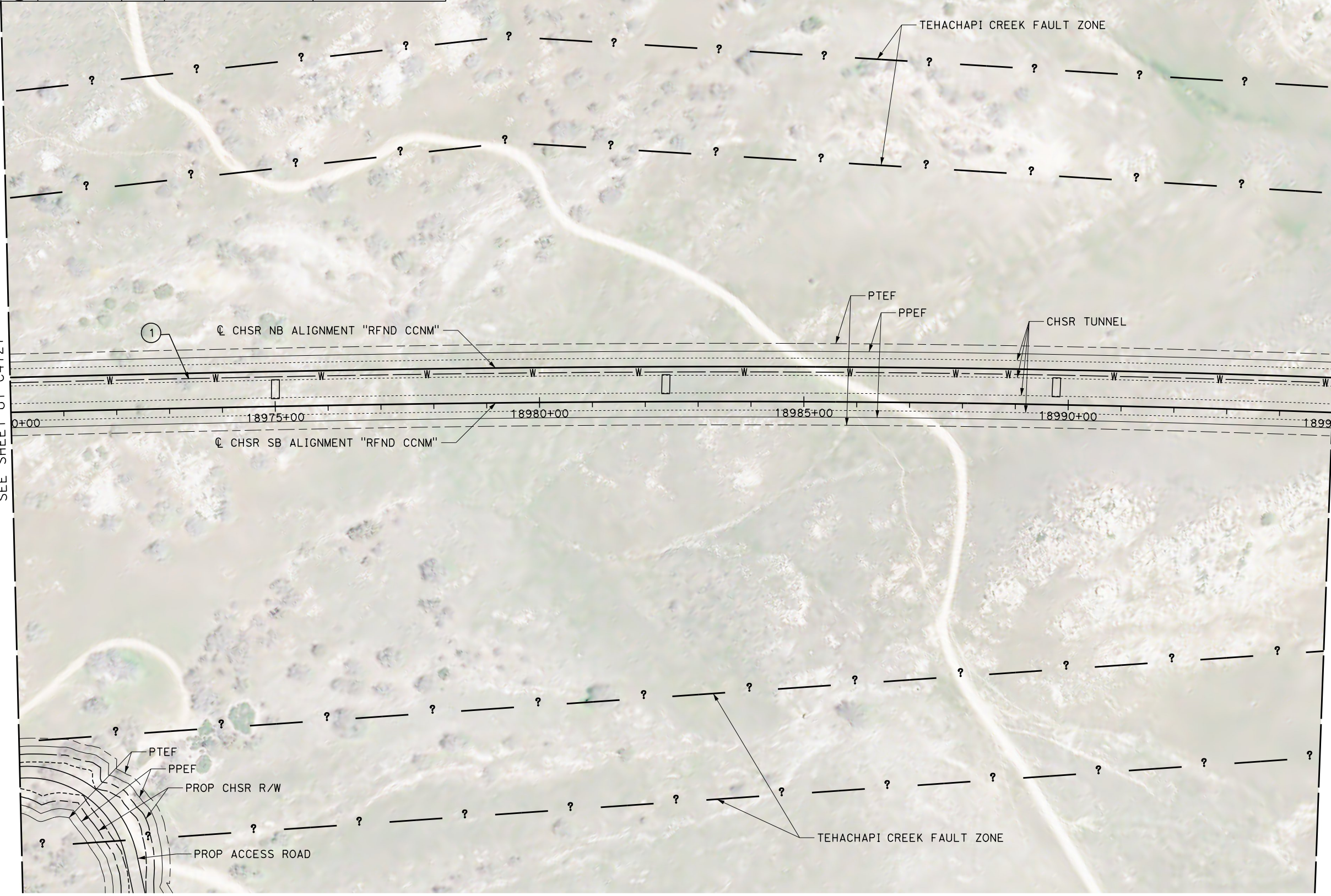
1/22/2020

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UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW

MATCH LINE STA 18970+00  
SEE SHEET UT-C4727

MATCH LINE STA 18995+00  
SEE SHEET UT-C4729



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

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PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18970+00 TO 18995+00  
PLAN

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
UT-C4728  
SCALE  
AS SHOWN  
SHEET NO.



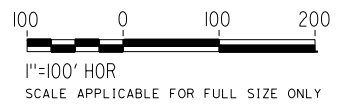
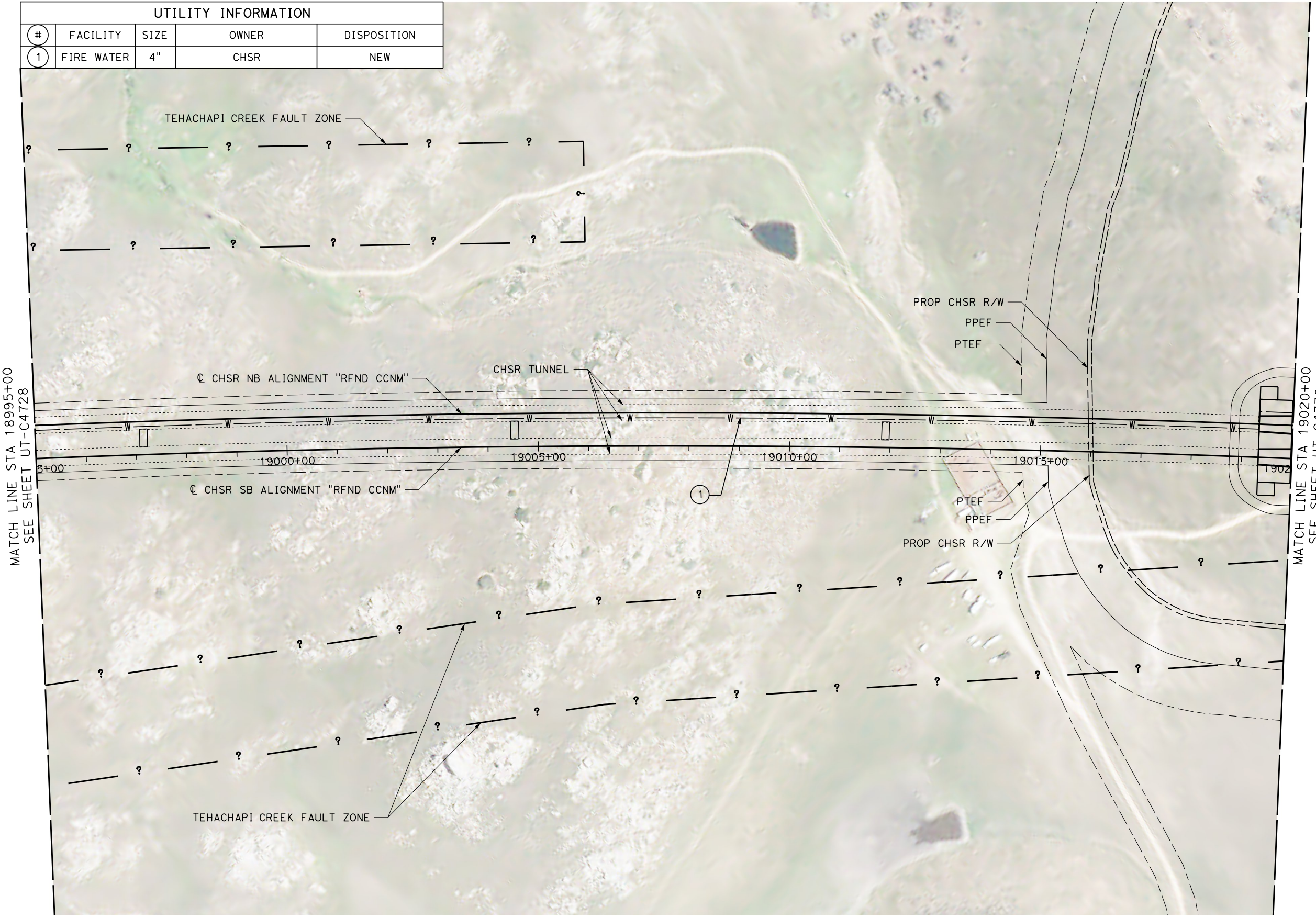
Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4729

11:19:55 PM

1/22/2020

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UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
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CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

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PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



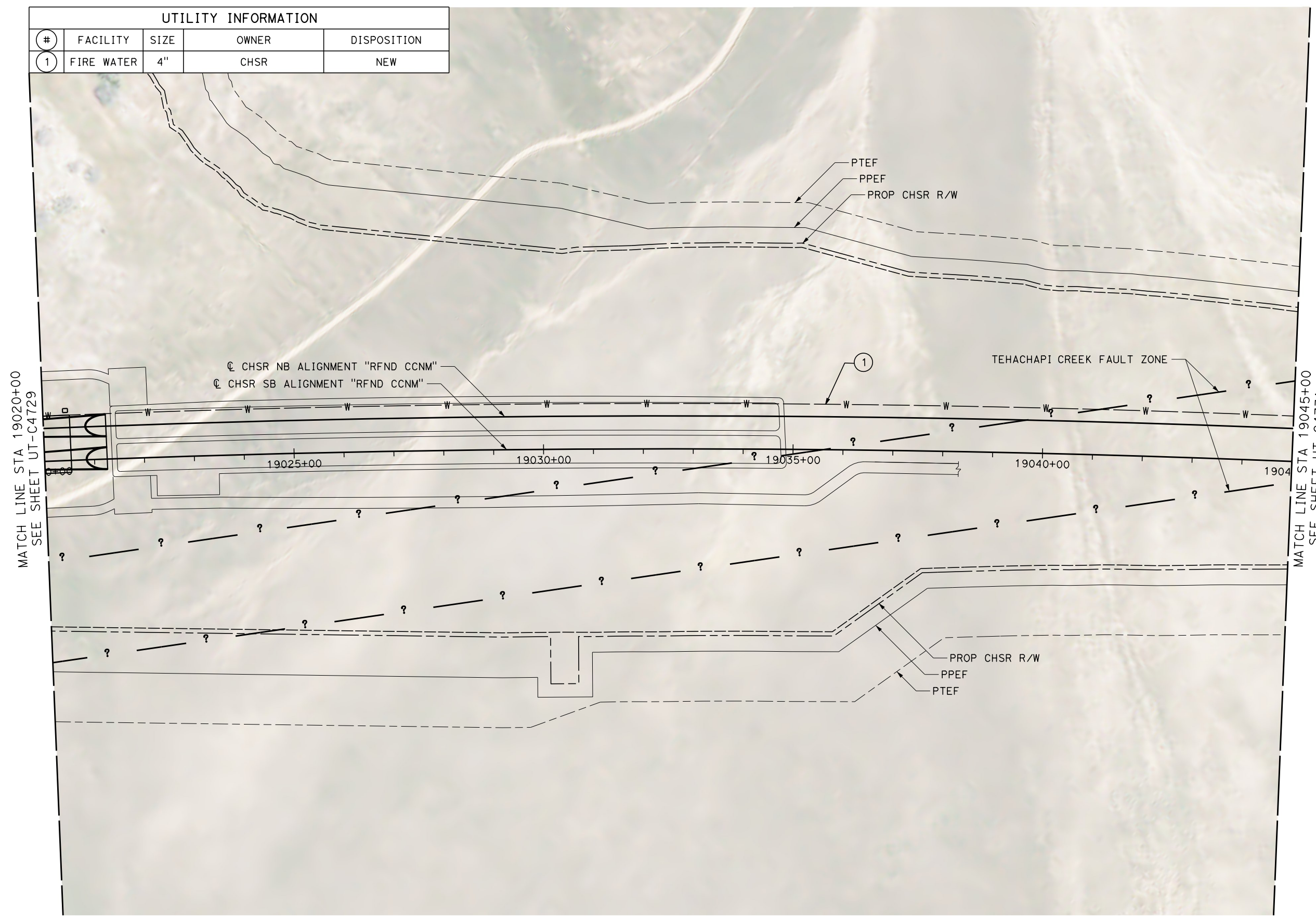
**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 18995+00 TO 19020+00  
PLAN

CONTRACT NO.  
HSR13-44  
DRAWING NO.  
UT-C4729  
SCALE  
AS SHOWN  
SHEET NO.



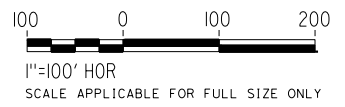
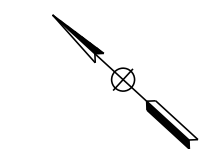
UTILITY INFORMATION

#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW



MATCH LINE STA 19020+00  
SEE SHEET UT-C4729

MATCH LINE STA 19045+00  
SEE SHEET UT-C4731



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4730

11:17:41 PM

1/22/2020

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 19020+00 TO 19045+00  
PLAN

CONTRACT NO.  
**HSR13-44**  
DRAWING NO.  
**UT-C4730**  
SCALE  
**AS SHOWN**  
SHEET NO.



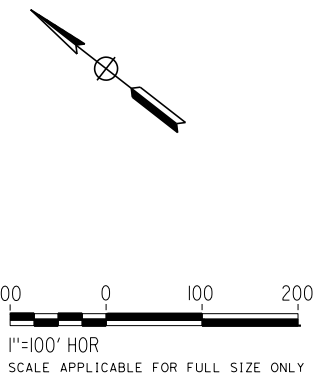
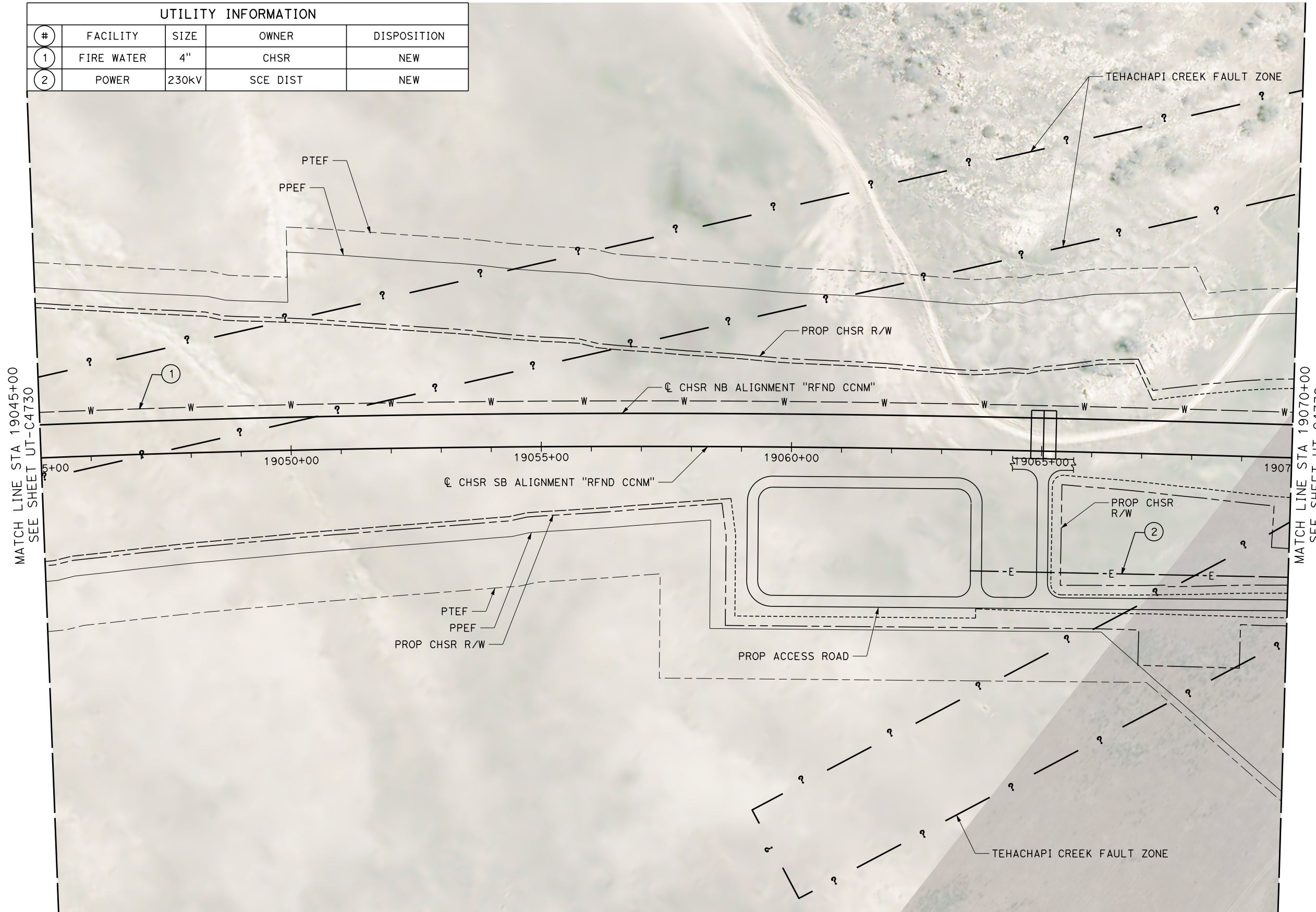
Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4731

11:19:59 PM

1/22/2020

javier\_lopez@tylin.com

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	FIRE WATER	4"	CHSR	NEW
2	POWER	230KV	SCE DIST	NEW



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 19045+00 TO 19070+00  
PLAN

CONTRACT NO.  
**HSR13-44**

DRAWING NO.  
**UT-C4731**

SCALE  
**AS SHOWN**

SHEET NO.



Projects\701206\_00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4732

11:17:37 PM

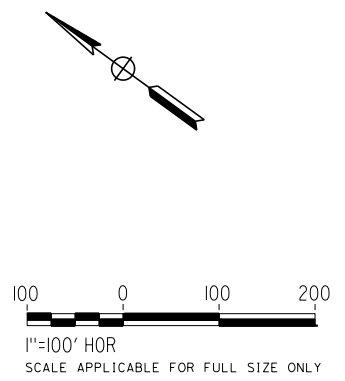
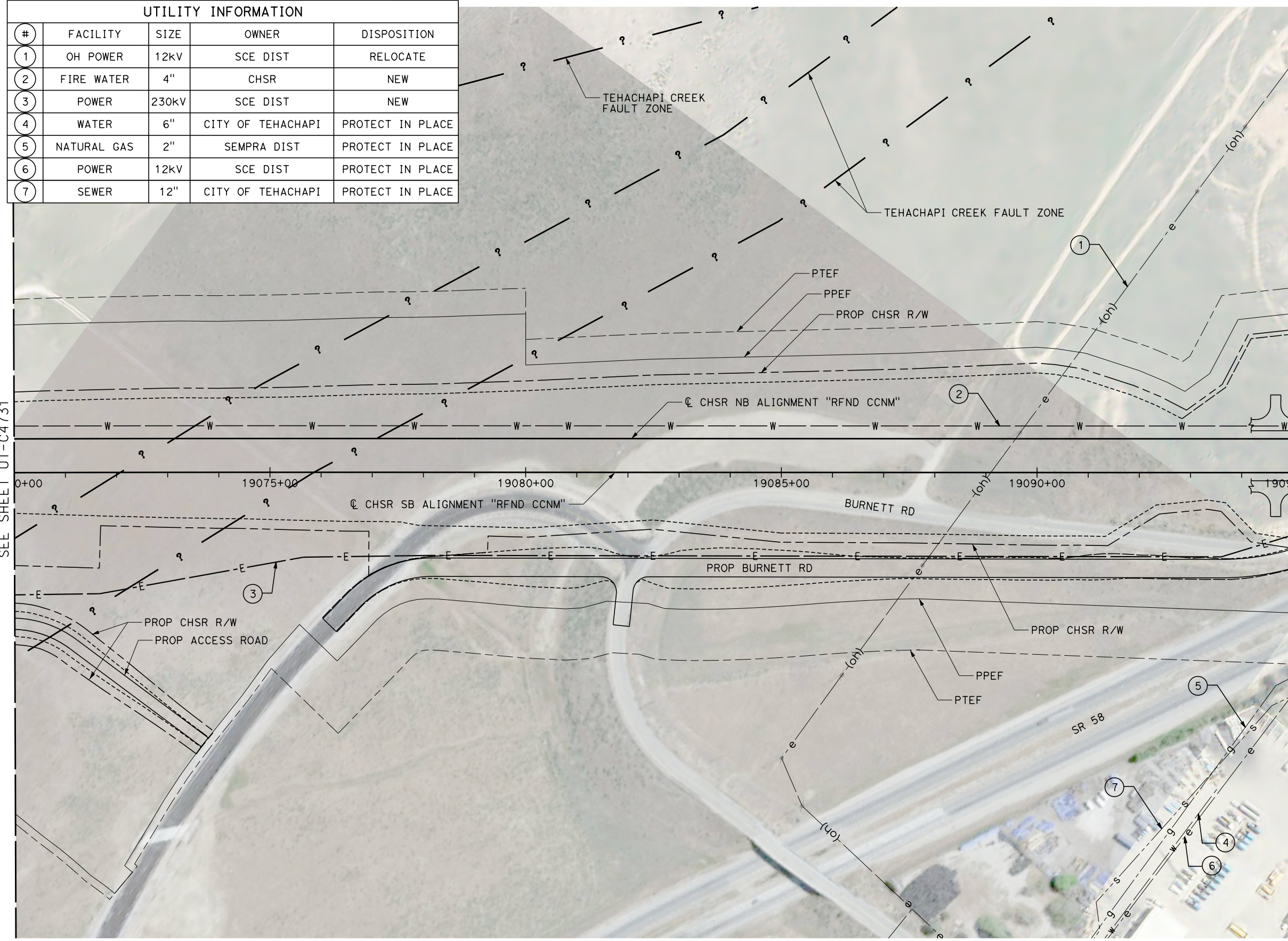
1/22/2020

javier\_lopez@tylin.com

UTILITY INFORMATION				
#	FACILITY	SIZE	OWNER	DISPOSITION
1	OH POWER	12kV	SCE DIST	RELOCATE
2	FIRE WATER	4"	CHSR	NEW
3	POWER	230kV	SCE DIST	NEW
4	WATER	6"	CITY OF TEHACHAPI	PROTECT IN PLACE
5	NATURAL GAS	2"	SEMPRA DIST	PROTECT IN PLACE
6	POWER	12kV	SCE DIST	PROTECT IN PLACE
7	SEWER	12"	CITY OF TEHACHAPI	PROTECT IN PLACE

MATCH LINE STA 19070+00  
SEE SHEET UT-C4731

MATCH LINE STA 19095+00  
SEE SHEET UT-C4733



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**D. ARUTA**  
DRAWN BY  
**J. LOPEZ**  
CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**

REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 19070+00 TO 19095+00  
PLAN

CONTRACT NO.  
HSR13-44

DRAWING NO.  
UT-C4732

SCALE  
AS SHOWN

SHEET NO.

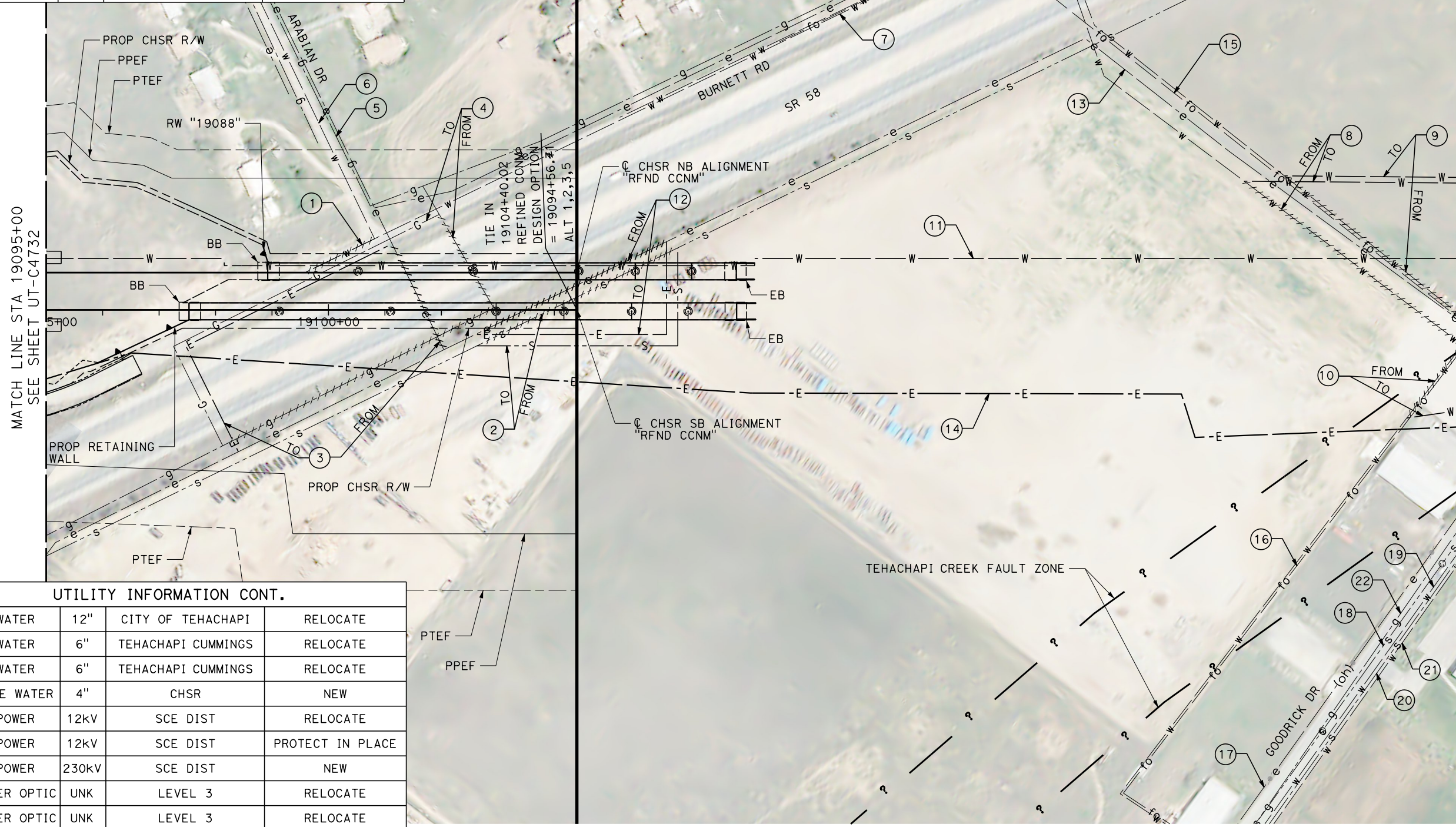


UTILITY INFORMATION

#	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	6"	CITY OF TEHACHAPI	REMOVE
2	SEWER	12"	CITY OF TEHACHAPI	RELOCATE
3	POWER	12KV	SCE DIST	RELOCATE
4	NATURAL GAS	2"	SEMPRA DIST	RELOCATE
5	NATURAL GAS	2"	SEMPRA DIST	PROTECT IN PLACE
6	WATER	12"	CITY OF TEHACHAPI	PROTECT IN PLACE
7	WATER	6"	CITY OF TEHACHAPI	PROTECT IN PLACE

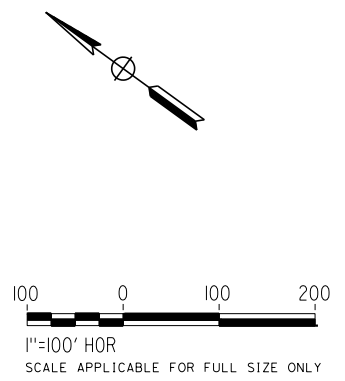
UTILITY INFORMATION CONT.

#	FACILITY	SIZE	OWNER	DISPOSITION
17	POWER	12KV	SCE DIST	PROTECT IN PLACE
18	SEWER	8"	CITY OF TEHACHAPI	PROTECT IN PLACE
19	WATER	12"	CITY OF TEHACHAPI	PROTECT IN PLACE
20	SEWER	12"	CITY OF TEHACHAPI	PROTECT IN PLACE
21	WATER	8"	CITY OF TEHACHAPI	PROTECT IN PLACE
22	NATURAL GAS	4"	SEMPRA DIST	PROTECT IN PLACE



UTILITY INFORMATION CONT.

#	FACILITY	SIZE	OWNER	DISPOSITION
8	WATER	12"	CITY OF TEHACHAPI	RELOCATE
9	WATER	6"	TEHACHAPI CUMMINGS	RELOCATE
10	WATER	6"	TEHACHAPI CUMMINGS	RELOCATE
11	FIRE WATER	4"	CHSR	NEW
12	POWER	12KV	SCE DIST	RELOCATE
13	POWER	12KV	SCE DIST	PROTECT IN PLACE
14	POWER	230KV	SCE DIST	NEW
15	FIBER OPTIC	UNK	LEVEL 3	RELOCATE
16	FIBER OPTIC	UNK	LEVEL 3	RELOCATE



Projects\701206.00\_CHSRBP\00\_CADD\CCNM Option D\Sheets\UT\BP-UT-C4733 1/22/2020 11:20:16 PM javier\_lopez@tylin.com

DESIGNED BY  
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CHECKED BY  
**J. TURRELL**  
IN CHARGE  
**G. CAMPBELL**  
DATE  
**01/24/2020**

**RECORD  
PEPD  
SUBMITTAL**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
BAKERSFIELD TO PALMDALE**  
REFINED CCNM DESIGN OPTION  
COMPOSITE UTILITY PLAN  
STA 19095+00 TO 19104+00  
PLAN

CONTRACT NO.  
**HSR13-44**  
DRAWING NO.  
**UT-C4733**  
SCALE  
**AS SHOWN**  
SHEET NO.

REV	DATE	BY	CHK	APP	DESCRIPTION