

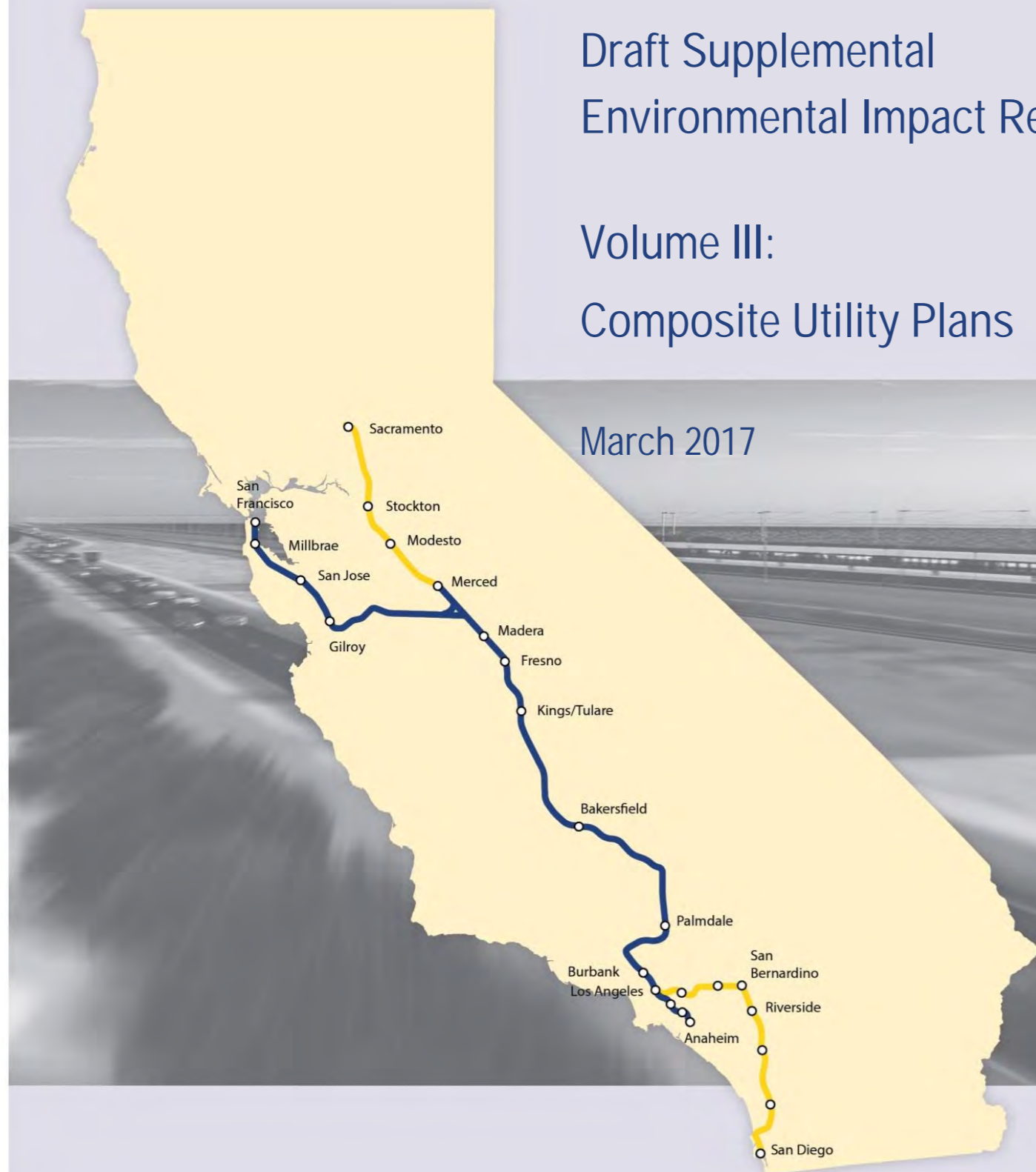
California High-Speed Rail Authority

Fresno to Bakersfield Section

Draft Supplemental
Environmental Impact Report / Environmental Impact Statement

Volume III:
Composite Utility Plans

March 2017



GENERAL AND UTILITIES

DRAWING NO.	REV NO.	DRAWING DESCRIPTION
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UT-C1020		COMPOSITE UTILITY PLAN STA 6394+00 TO 6422+00
UT-C1021		COMPOSITE UTILITY PLAN STA 6422+00 TO 6450+00
UT-C1022		COMPOSITE UTILITY PLAN STA 6450+00 TO 6478+00
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UT-C1024		COMPOSITE UTILITY PLAN STA 6506+00 TO 6534+00
UT-C1025		COMPOSITE UTILITY PLAN STA 6534+00 TO 6562+00
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UT-C1027		COMPOSITE UTILITY PLAN STA 6590+00 TO 6618+00
UT-C1028		COMPOSITE UTILITY PLAN STA 6618+00 TO 6646+00
UT-C1029		COMPOSITE UTILITY PLAN STA 6646+00 TO 6674+00
UT-C1030		COMPOSITE UTILITY PLAN STA 6674+00 TO 6702+00
UT-C1031		COMPOSITE UTILITY PLAN STA 6702+00 TO 6731+00
UT-C1032		COMPOSITE UTILITY PLAN STA 6731+00 TO 6758+00
UT-C1033		COMPOSITE UTILITY PLAN STA 6758+00 TO 6786+00
UT-C1034		COMPOSITE UTILITY PLAN STA 6786+00 TO 6814+00
UT-C1035		COMPOSITE UTILITY PLAN STA 6814+00 TO 6842+00
UT-C1036		COMPOSITE UTILITY PLAN STA 6842+00 TO 6870+00
UT-C1037		COMPOSITE UTILITY PLAN STA 6870+00 TO 6898+00
UT-C1038		COMPOSITE UTILITY PLAN STA 6898+00 TO 6926+00
UT-C1039		COMPOSITE UTILITY PLAN STA 6926+00 TO 6954+00
UT-C1040		COMPOSITE UTILITY PLAN STA 6954+00 TO 6982+00
UT-C1041		COMPOSITE UTILITY PLAN STA 6982+00 TO 7010+00
UT-C1042		COMPOSITE UTILITY PLAN STA 7010+00 TO 7038+00
UT-C1043		COMPOSITE UTILITY PLAN STA 7038+00 TO 7066+00
UT-C1044		COMPOSITE UTILITY PLAN STA 7066+00 TO 7094+00
UT-C1045		COMPOSITE UTILITY PLAN STA 7094+00 TO 7100+00
UT-C1501		COMPOSITE UTILITY PLAN POPLAR AVENUE
UT-C1502		COMPOSITE UTILITY PLAN POPLAR AVENUE
UT-C1503		COMPOSITE UTILITY PLAN RIVERSIDE STREET
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UT-C1505		COMPOSITE UTILITY PLAN 7TH STANDARD ROAD
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UT-Y4505		HH&D FACILITY SCHEDULE

UTILITY OWNERS	
OWNER	ABBREVIATION
ALON BAKERSFIELD PROP	ALON
AT&T	AT&T TRANS
AT&T/PACIFIC BELL	PACBELL
BRIGHT HOUSE NETWORKS	BRIGHT HOUSE
CALIFORNIA RESOURCE CORP	CRC
CALIFORNIA WATER SERVICE	CALWATER
CALTRANS	CALTRANS
CAWELO WATER DISTRICT	CWD
CENTURYLINK COMMUNICATIONS	CENTURYLINK
CHEVRON PIPE LINE COMPANY	CHEVRON (CPL)
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY	CHEVRON (CEMC)
CITY OF SHAFTER	CITY OF SHAFTER
CITY OF BAKERSFIELD	CITY OF BAKERSFIELD
COUNTY OF KERN	COUNTY OF KERN
CVIN LLC	CVIN
FRIANT WATER AUTHORITY	FWA
KERN COUNTY WATER AGENCY	KCWA
KERN DELTA WATER DISTRICT	KDWD
KERN SANITATION AUTHORITY	KSA
LEVEL 3 COMMUNICATIONS	LEVEL3
NORTH OF RIVER SANITATION DISTRICT	NORS
NORTH KERN WATER STORAGE DISTRICT	NKWS
OILDALE MUTUAL WATER	OMW
PACIFIC GAS AND ELECTRIC - DISTRIBUTION	PG&E DIST
PACIFIC GAS AND ELECTRIC - TRANSMISSION	PG&E TRANS
PHILLIPS 66	PHILLIPS66
SHAFTER-WASCO IRRIGATION DISTRICT	SWID
SHELL PIPELINE COMPANY	SHELL
SOUTHERN CALIFORNIA GAS COMPANY/ SEMPRA - DISTRIBUTION	SEMPRA DIST
SOUTHERN CALIFORNIA GAS COMPANY/ SEMPRA - TRANSMISSION	SEMPRA TRANS
SPRINT	SPRINT
SUNESYS, LLC	SUNESYS
VERIZON	VERIZON

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
DRAWN BY
T. SWEITZER
CHECKED BY
D. CONYERS
IN CHARGE
E. WINTERS
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
INDEX OF DRAWINGS & UTILITY OWNER ABBREVIATIONS

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-B0001
SCALE
NO SCALE
SHEET NO.

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
—iw— —iw—	—IW— —IW—	INDUSTRIAL WASTE
---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
—fo— —(oh)—	—FO— —(OH)—	FIBER OPTIC OVERHEAD
—fo— —fo—	—FO— —FO—	FIBER OPTIC
—irr— —irr—	—IRR— —IRR—	IRRIGATION
		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
		HST TRACK CENTER LINE
		RETAINING WALL
		STRUCTURE FOUNDATION
		PTEF
		PPEF
		UTILITY TO BE REMOVED OR RELOCATED
		RETENTION BASIN
		KEY NOTE, UTILITY NUMBER
		ROADWAY EASEMENT

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
BLDG	BUILDING	GND	GROUND	RWY	RAILWAY
BLVD	BOULEVARD	GTR	GUTTER	S	SOUTH
BNSF	BURLINGTON NORTHERN SANTA FE	GV	GAS VALVE	SB	SOUTHBOUND
BO	BLOW-OFF	HOR	HORIZONTAL	SD	STORM DRAIN
CB	CATCH BASIN	HST	HIGH-SPEED TRAIN	SDMH	STORM DRAIN MANHOLE
CD	CURB DRAIN	HSR	HIGH-SPEED RAIL	SF	SQUARE FEET
C&G	CURB AND GUTTER	HST	HIGH-SPEED TRAIN	SHLD	SHOULDER
CHSR	CALIFORNIA HIGH-SPEED RAIL	IN	INCH	SR	STATE ROUTE
CHST	CALIFORNIA HIGH-SPEED TRAIN	INV	INVERT	SS	SANITARY SEWER
CIP	CAST IRON PIPE	IRR	IRRIGATION	SSMH	SANITARY SEWER MANHOLE
CL	CENTERLINE, CLASS	L	LENGTH	ST	STREET
CL	CENTERLINE	LT	LEFT	STA	STATION
CLSM	CONTROLLED LOW STRENGTH MATERIAL	MAX	MAXIMUM	SW	SIDEWALK
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	SWR	SEWER
CTV	CABLE TELEVISION	N	NORTH, NEW	T	TELEPHONE, TOTAL
CV	CURVE	NA	NOT APPLICABLE	TC	TELECOMMUNICATION
D	DEPTH	NB	NORTHBOUND	TCE	TEMPORARY CONSTRUCTION EASEMENT
DI	DRAINAGE INLET	NIC	NOT IN CONTRACT	TEL	TELEPHONE
DIA	DIAMETER	NO	NUMBER	TOR	TOP OF RAIL
DIP	DUCTILE IRON PIPE	NTS	NOT TO SCALE	TS	TRAFFIC SIGNAL
DIST	DISTANCE	OCS	OVERHEAD CONTACT SYSTEM	TYP	TPICAL
DWG	DRAWING	PROP, (P)	PROPOSED	UG, U/G	UNDERGROUND
E	ELECTRICAL, EAST	PED	PEDESTRIAN	UNK	UNKNOWN
EB	EASTBOUND	PPEF	PROPOSED PERMANENT	UPRR	UNION PACIFIC RAILROAD
EL	ELEVATION	PTEF	PROPOSED TEMPORARY	VAR	VARIES
ELEC	ELECTRIC	PVC	POLYVINYL CHLORIDE	VC	VERTICAL CURVE
EP	EDGE OF PAVEMENT	PVMT	PAVEMENT	VCP	VITRIFIED CLAY PIPE
EXIST, (E)	EXISTING			W	WEST, WATER
				W/	WITH
				WB	WESTBOUND
				WM	WATER MAIN
				WV	WATER VALVE

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.

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.

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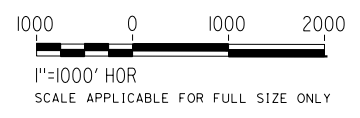
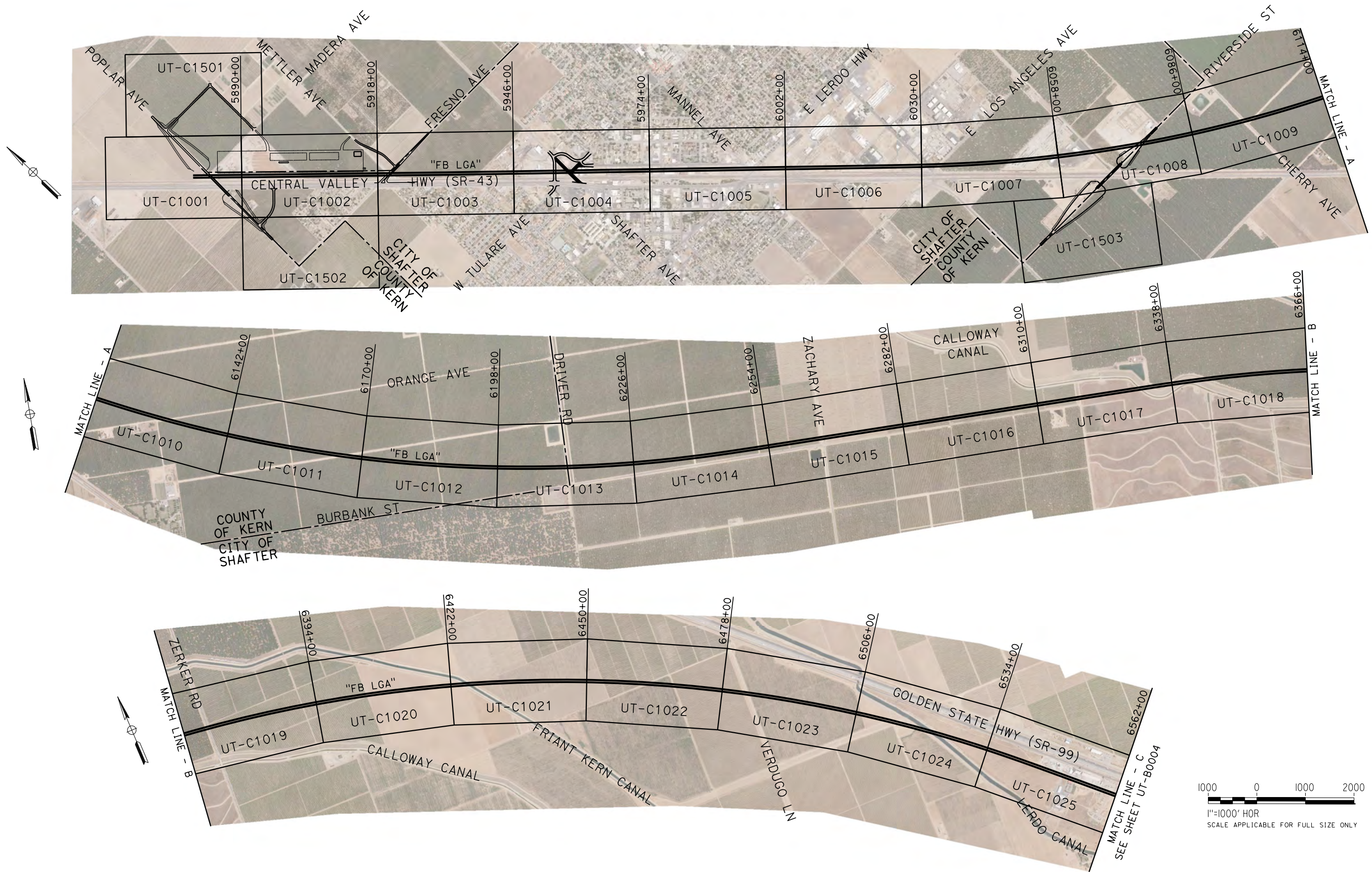
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 LEGEND, SYMBOLS, ABBREVIATIONS & NOTES

CONTRACT NO. HSR13-44
DRAWING NO. UT-B0002
SCALE NO SCALE
SHEET NO.

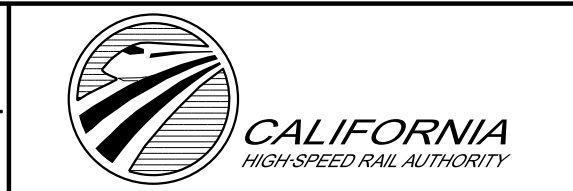
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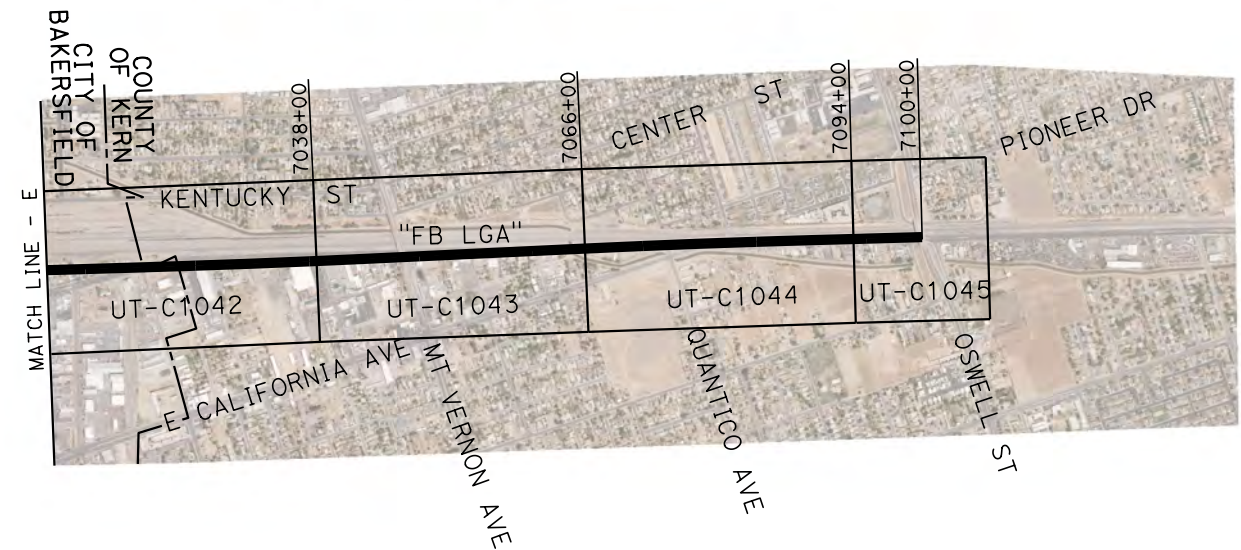
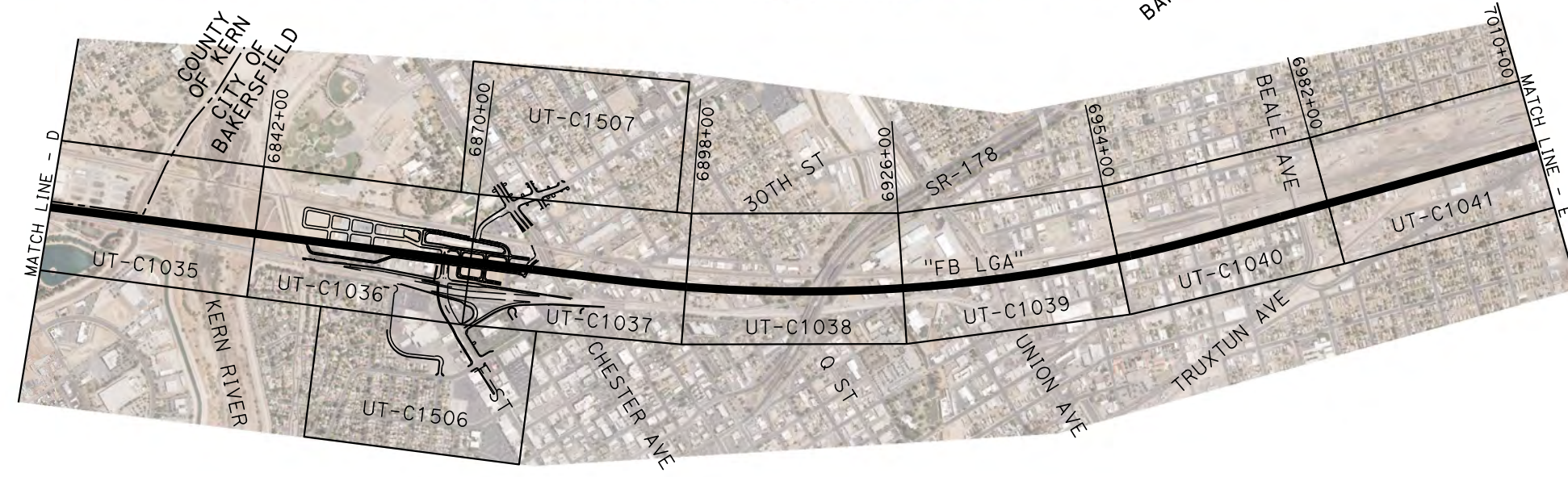
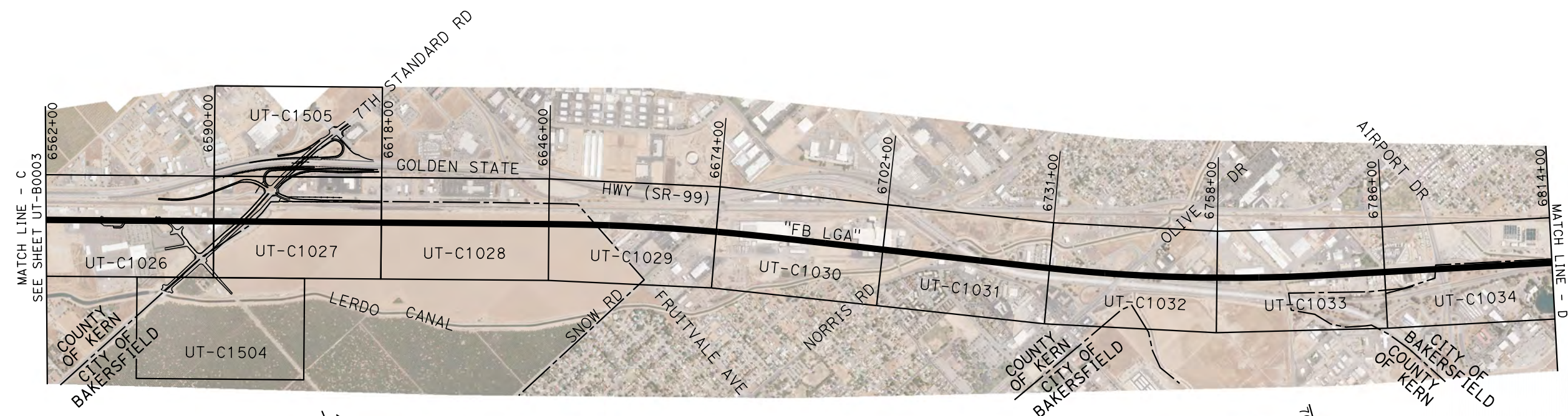
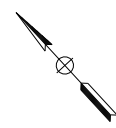
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
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COMPOSITE UTILITY PLAN
KEY MAP (SHEET 1 OF 2)

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-B0003
SCALE
AS SHOWN
SHEET NO.

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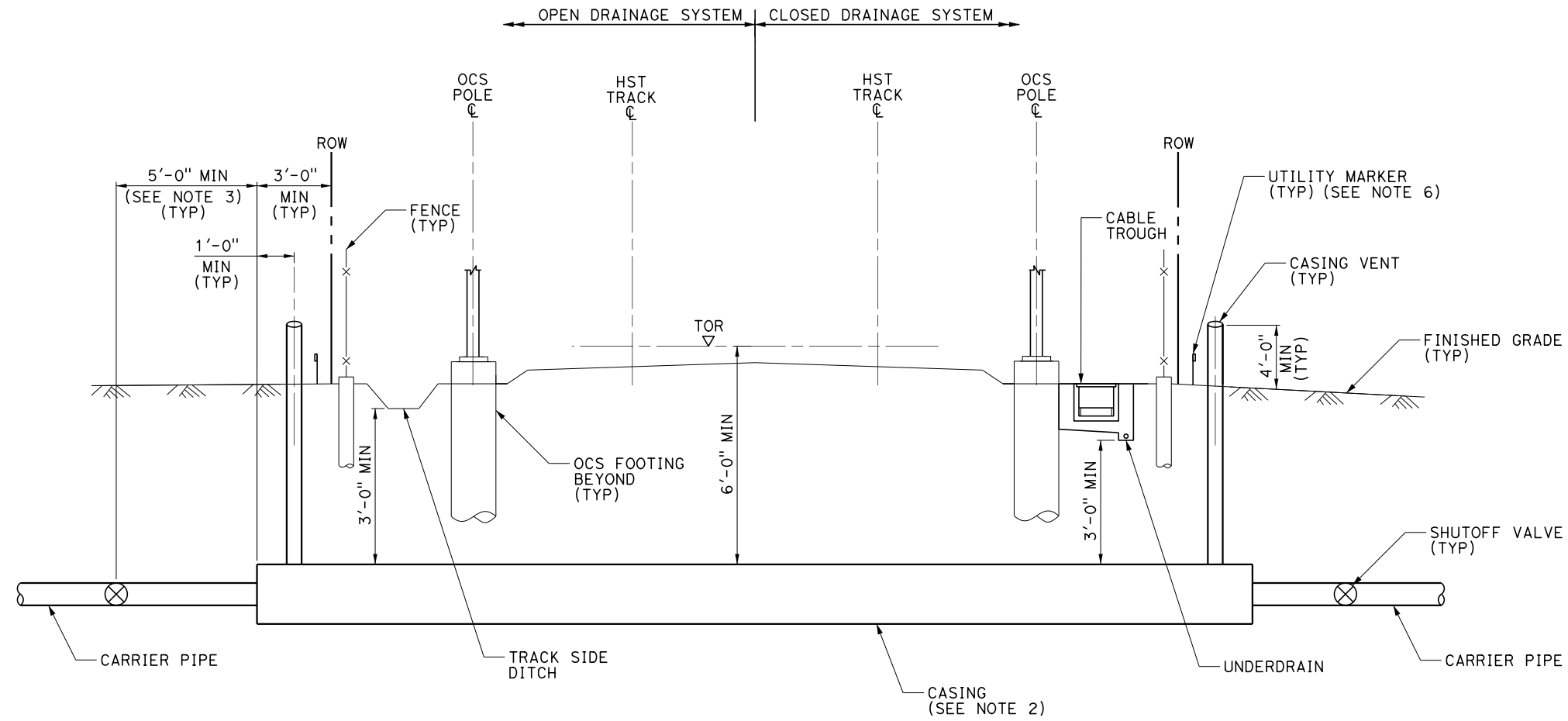
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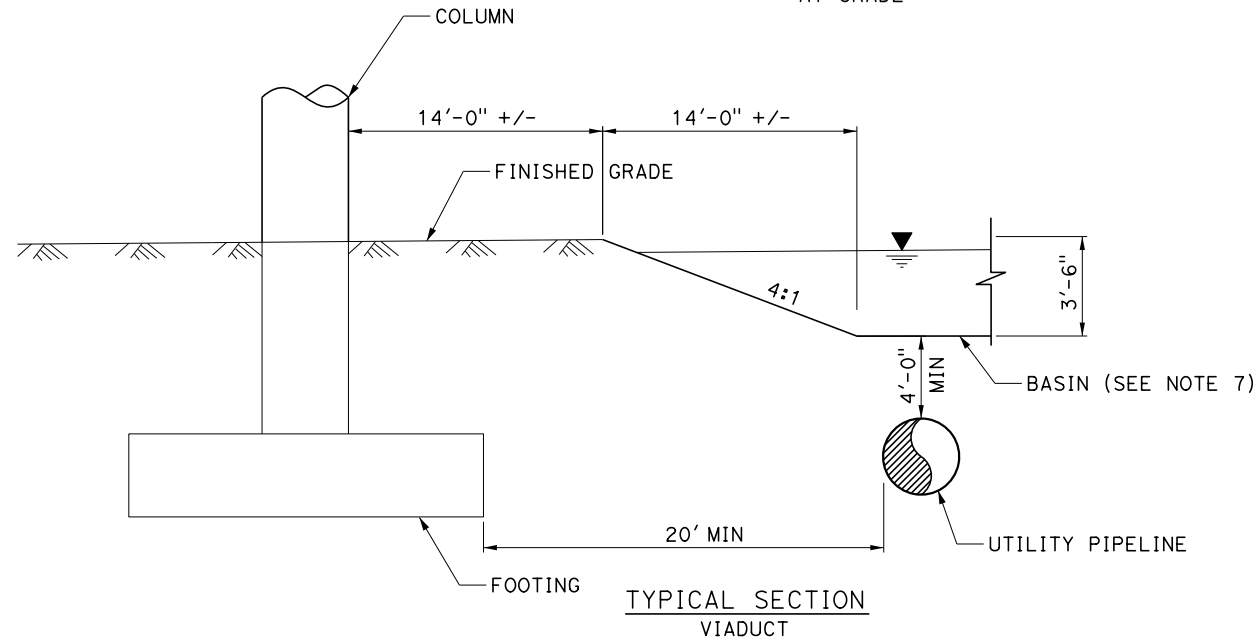
**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
KEY MAP (SHEET 2 OF 2)

CONTRACT NO.
HSR13-44
DRAWING NO.
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SCALE
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SHEET NO.

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TYPICAL SECTION AT GRADE



TYPICAL SECTION VIADUCT

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.

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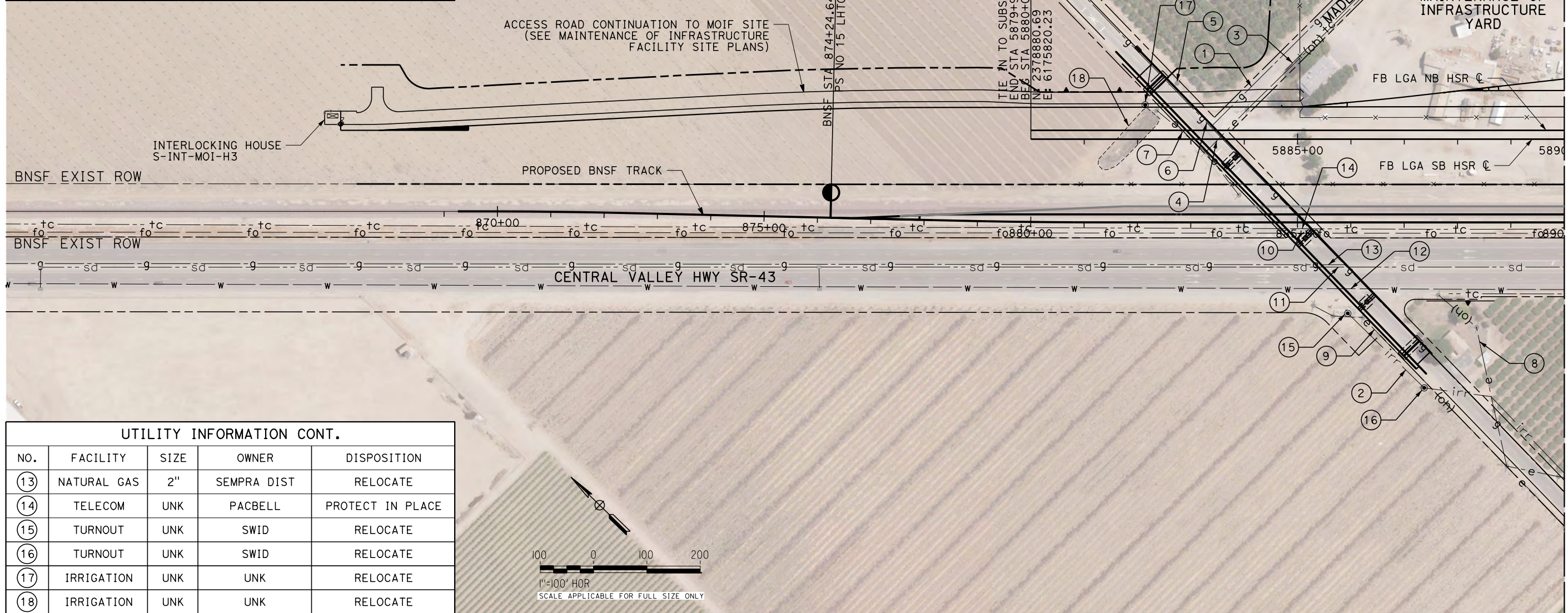


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
UTILITY CROSSING CLEARANCES

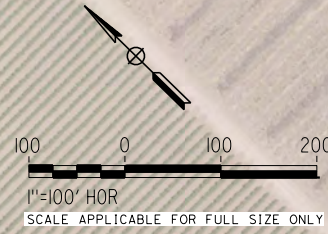
CONTRACT NO.
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SCALE
NO SCALE
SHEET NO.

MATCH LINE (UT-C1501)

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	NATURAL GAS	2"	SEMPRA DIST	RELOCATE
②	IRRIGATION	18"	SWID	RELOCATE
③	TELECOM	UNK	PACBELL	RELOCATE
④	OH POWER	12KV	PG&E DIST	RELOCATE
⑤	POLE MOUNTED SOLAR PANEL	UNK	UNKNOWN	RELOCATE
⑥	NATURAL GAS	2"	SEMPRA DIST	RELOCATE
⑦	OH POWER	12KV	PG&E DIST	RELOCATE
⑧	OH POWER	12KV	PG&E DIST	REMOVE
⑨	OH POWER	12KV	PG&E DIST	RELOCATE
⑩	FIBER OPTIC	UNK	LEVEL 3	RELOCATE
⑪	STORM DRAIN	24"	CALTRANS	PROTECT IN PLACE
⑫	WATER	10"	CITY OF SHAFER	PROTECT IN PLACE



UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑬	NATURAL GAS	2"	SEMPRA DIST	RELOCATE
⑭	TELECOM	UNK	PACBELL	PROTECT IN PLACE
⑮	TURNOUT	UNK	SWID	RELOCATE
⑯	TURNOUT	UNK	SWID	RELOCATE
⑰	IRRIGATION	UNK	UNK	RELOCATE
⑱	IRRIGATION	UNK	UNK	RELOCATE

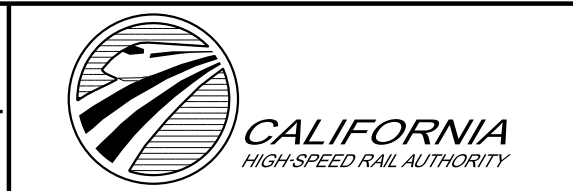


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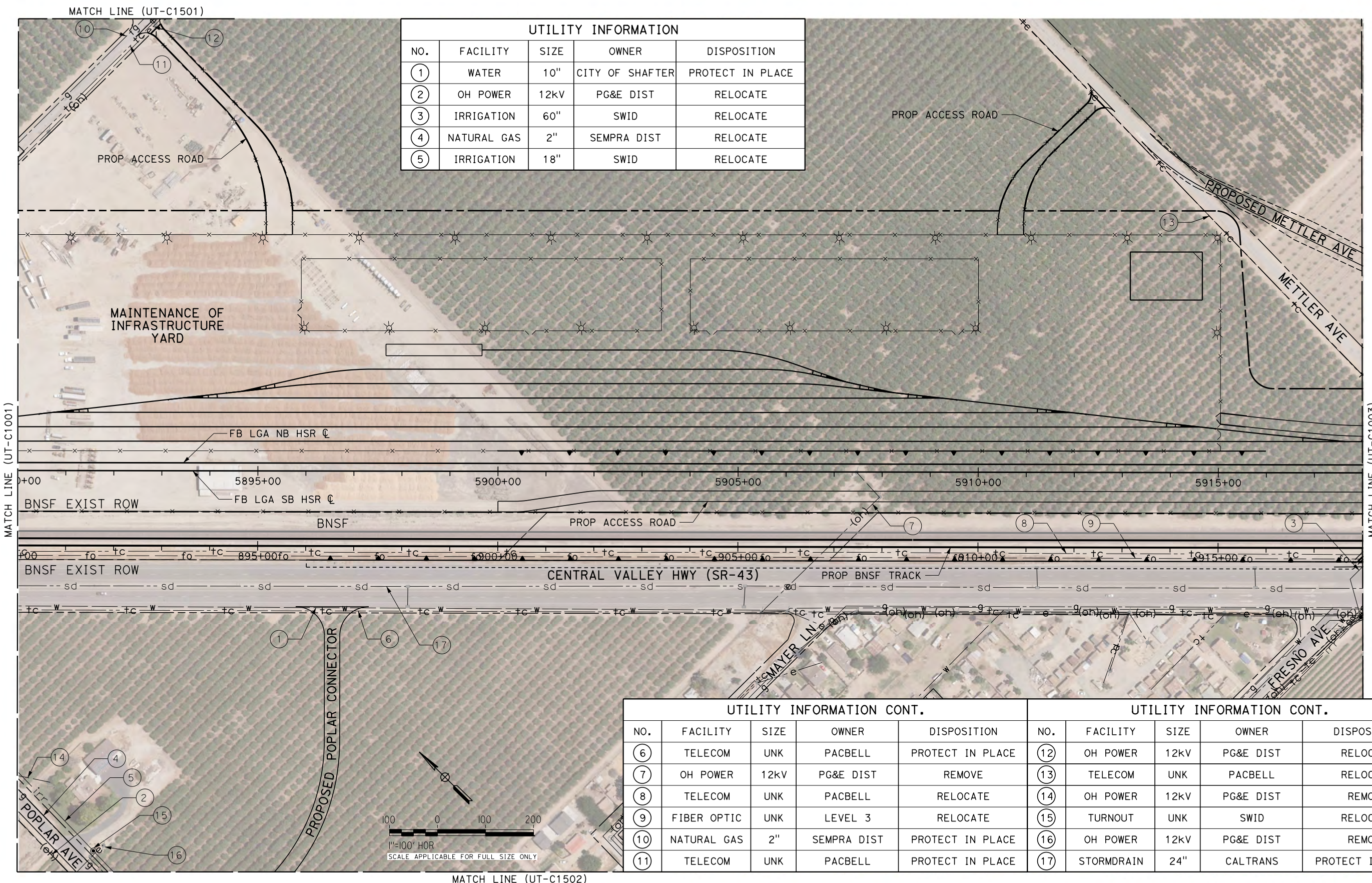
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 5880+00 TO 5890+00

CONTRACT NO.
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UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	10"	CITY OF SHAFTER	PROTECT IN PLACE
②	OH POWER	12KV	PG&E DIST	RELOCATE
③	IRRIGATION	60"	SWID	RELOCATE
④	NATURAL GAS	2"	SEMPRA DIST	RELOCATE
⑤	IRRIGATION	18"	SWID	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑥	TELECOM	UNK	PACBELL	PROTECT IN PLACE
⑦	OH POWER	12KV	PG&E DIST	REMOVE
⑧	TELECOM	UNK	PACBELL	RELOCATE
⑨	FIBER OPTIC	UNK	LEVEL 3	RELOCATE
⑩	NATURAL GAS	2"	SEMPRA DIST	PROTECT IN PLACE
⑪	TELECOM	UNK	PACBELL	PROTECT IN PLACE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑫	OH POWER	12KV	PG&E DIST	RELOCATE
⑬	TELECOM	UNK	PACBELL	RELOCATE
⑭	OH POWER	12KV	PG&E DIST	REMOVE
⑮	TURNOUT	UNK	SWID	RELOCATE
⑯	OH POWER	12KV	PG&E DIST	REMOVE
⑰	STORMDRAIN	24"	CALTRANS	PROTECT IN PLACE



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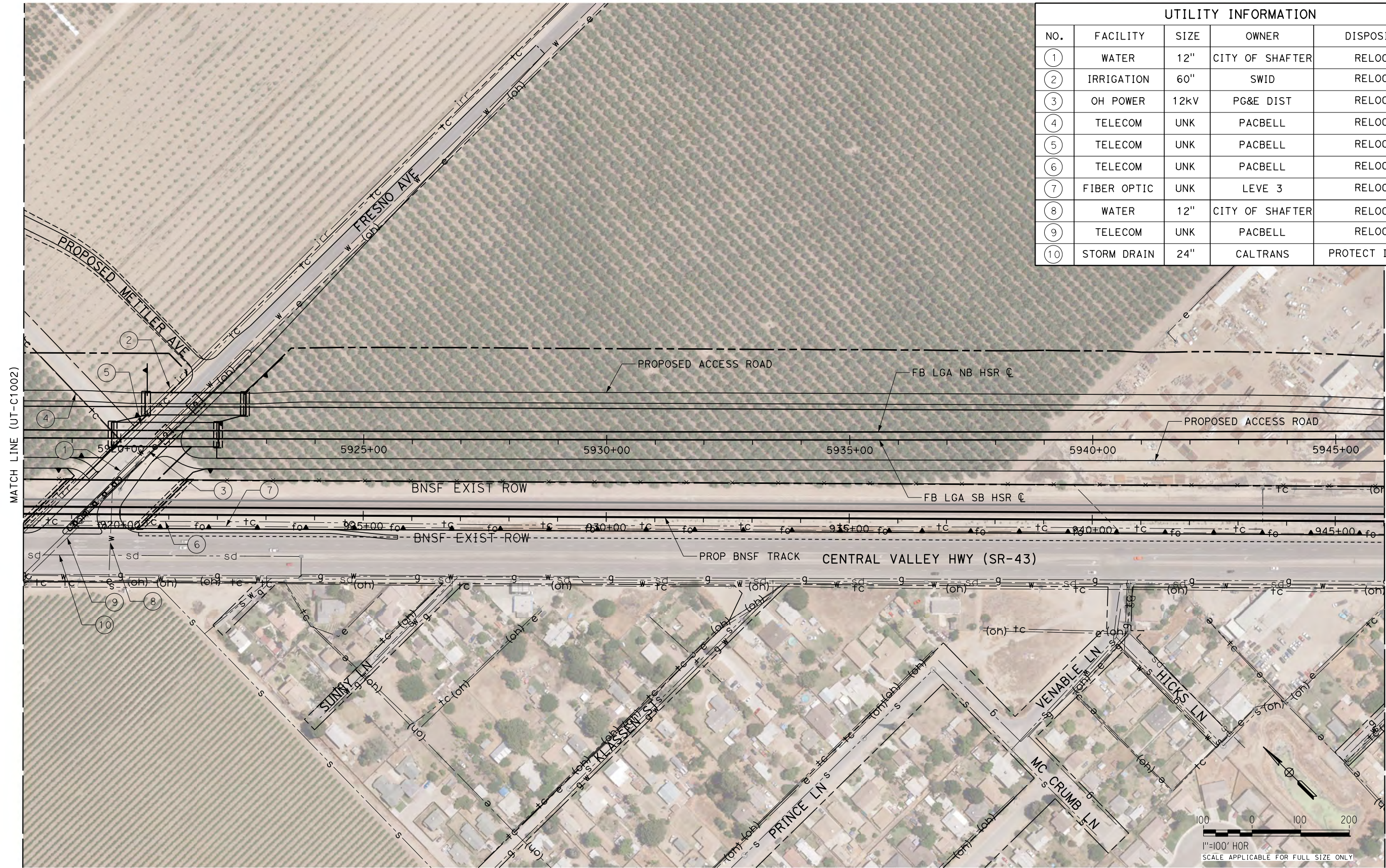


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 5890+00 TO 5918+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1002
 SCALE
AS SHOWN
 SHEET NO.

Projects\701206_N_BFSS\00_CADD\Sheet_Files\Utilities\BFSSA-UT-C1003.dgn \$PLTDRVS\$ \$PENTBL\$ 10/11/2016 1:49:09 PM

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	12"	CITY OF SHAFTER	RELOCATE
②	IRRIGATION	60"	SWID	RELOCATE
③	OH POWER	12kV	PG&E DIST	RELOCATE
④	TELECOM	UNK	PACBELL	RELOCATE
⑤	TELECOM	UNK	PACBELL	RELOCATE
⑥	TELECOM	UNK	PACBELL	RELOCATE
⑦	FIBER OPTIC	UNK	LEVE 3	RELOCATE
⑧	WATER	12"	CITY OF SHAFTER	RELOCATE
⑨	TELECOM	UNK	PACBELL	RELOCATE
⑩	STORM DRAIN	24"	CALTRANS	PROTECT IN PLACE



1"=100' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
DRAWN BY
T. SWEITZER
CHECKED BY
D. CONYERS
IN CHARGE
E. WINTERS
DATE
10/28/2016

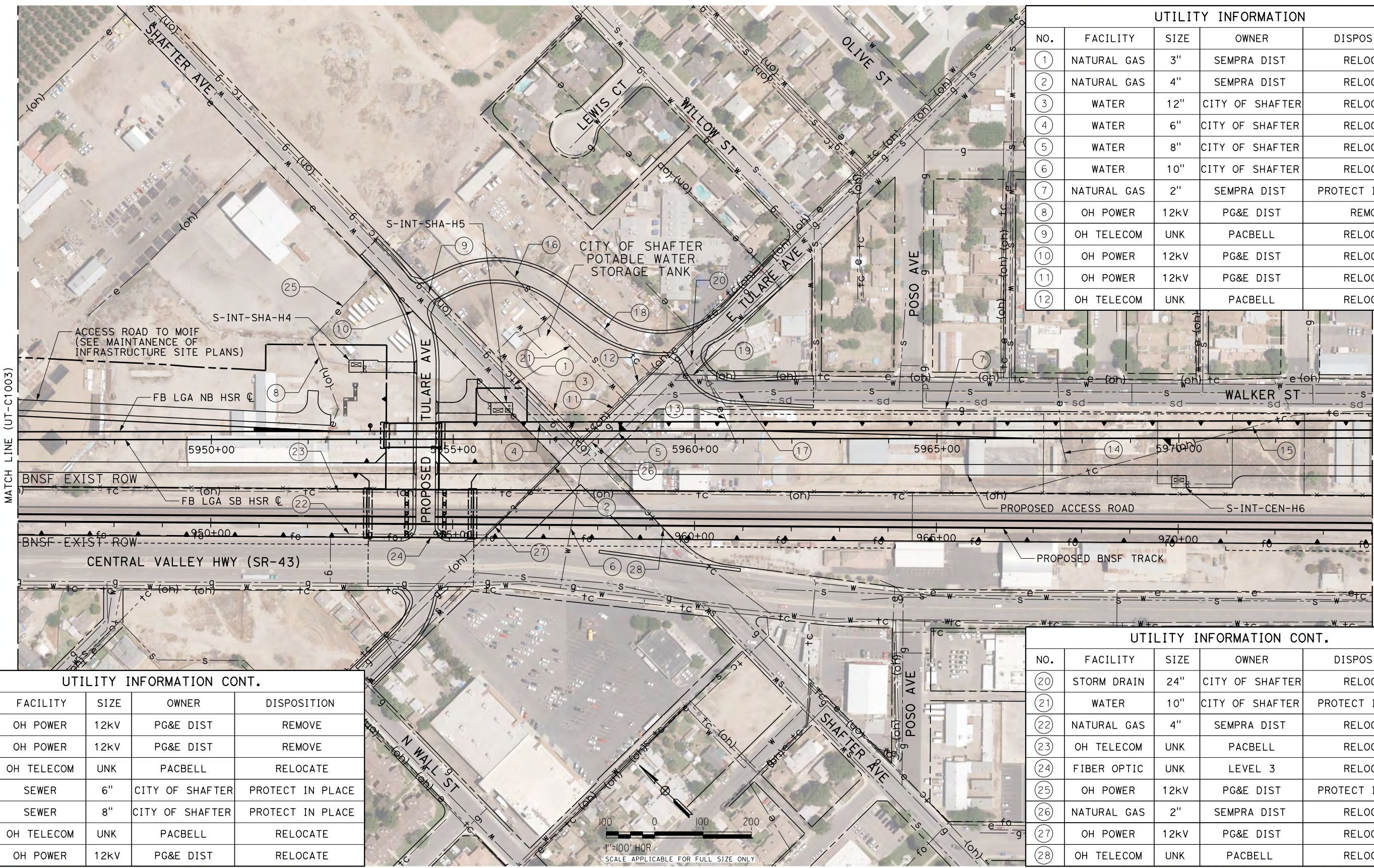
**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 5918+00 TO 5946+00

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C1003
SCALE
AS SHOWN
SHEET NO.

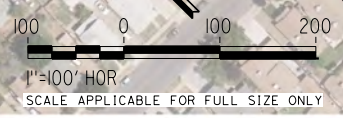
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UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	NATURAL GAS	3"	SEMPRA DIST	RELOCATE
2	NATURAL GAS	4"	SEMPRA DIST	RELOCATE
3	WATER	12"	CITY OF SHAFTER	RELOCATE
4	WATER	6"	CITY OF SHAFTER	RELOCATE
5	WATER	8"	CITY OF SHAFTER	RELOCATE
6	WATER	10"	CITY OF SHAFTER	RELOCATE
7	NATURAL GAS	2"	SEMPRA DIST	PROTECT IN PLACE
8	OH POWER	12kV	PG&E DIST	REMOVE
9	OH TELECOM	UNK	PACBELL	RELOCATE
10	OH POWER	12kV	PG&E DIST	RELOCATE
11	OH POWER	12kV	PG&E DIST	RELOCATE
12	OH TELECOM	UNK	PACBELL	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
13	OH POWER	12kV	PG&E DIST	REMOVE
14	OH POWER	12kV	PG&E DIST	REMOVE
15	OH TELECOM	UNK	PACBELL	RELOCATE
16	SEWER	6"	CITY OF SHAFTER	PROTECT IN PLACE
17	SEWER	8"	CITY OF SHAFTER	PROTECT IN PLACE
18	OH TELECOM	UNK	PACBELL	RELOCATE
19	OH POWER	12kV	PG&E DIST	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
20	STORM DRAIN	24"	CITY OF SHAFTER	RELOCATE
21	WATER	10"	CITY OF SHAFTER	PROTECT IN PLACE
22	NATURAL GAS	4"	SEMPRA DIST	RELOCATE
23	OH TELECOM	UNK	PACBELL	RELOCATE
24	FIBER OPTIC	UNK	LEVEL 3	RELOCATE
25	OH POWER	12kV	PG&E DIST	PROTECT IN PLACE
26	NATURAL GAS	2"	SEMPRA DIST	RELOCATE
27	OH POWER	12kV	PG&E DIST	RELOCATE
28	OH TELECOM	UNK	PACBELL	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
 DRAWN BY
T. SWEITZER
 CHECKED BY
D. CONYERS
 IN CHARGE
E. WINTERS
 DATE
10/28/2016

**RECORD SET
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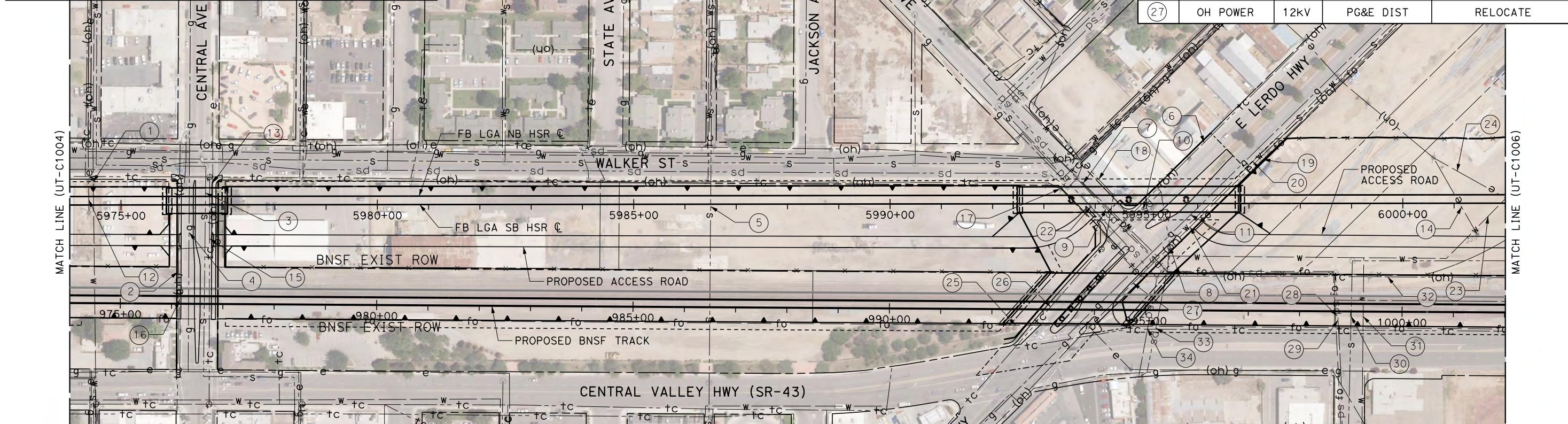
**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 5946+00 TO 5974+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1004
 SCALE
AS SHOWN
 SHEET NO.

Projects\701206.N_BFSS\00_CADD\Sheet_Files\Utilities\BFSSA-UT-C1005.dgn \$PLTDRVS\$ \$PENTBL\$ \$ 10/11/2016 1:48:40 PM

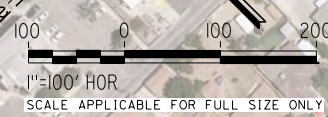
UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	10"	CITY OF SHAFTER	RELOCATE
②	TELECOM	UNK	BRIGHT HOUSE	PROTECT IN PLACE
③	SEWER	8"	CITY OF SHAFTER	PROTECT IN PLACE
④	NATURAL GAS	2"	SEMPRA DIST	PROTECT IN PLACE
⑤	SEWER	10"	CITY OF SHAFTER	RELOCATE
⑥	OH TELECOM	UNK	PACBELL	RELOCATE
⑦	WATER	8"	CITY OF SHAFTER	PROTECT IN PLACE
⑧	STORM DRAIN	24"	CITY OF SHAFTER	PROTECT IN PLACE
⑨	FIBER OPTIC	UNK	CITY OF SHAFTER	PROTECT IN PLACE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑱	OH POWER	12kV	PG&E DIST	RELOCATE
⑲	FIBER OPTIC	UNK	CITY OF SHAFTER	RELOCATE
⑳	WATER	8"	CITY OF SHAFTER	PROTECT IN PLACE
㉑	OH POWER	12kV	PG&E DIST	RELOCATE
㉒	STORM DRAIN	24"	CITY OF SHAFTER	RELOCATE
㉓	WATER	8"	CITY OF SHAFTER	RELOCATE
㉔	OH POWER	240V	PG&E DIST	REMOVE
㉕	FIBER OPTIC	UNK	LEVEL 3	RELOCATE
㉖	TELECOM	UNK	PACBELL	PROTECT IN PLACE
㉗	OH POWER	12kV	PG&E DIST	RELOCATE



UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑩	STORM DRAIN	36"	CITY OF SHAFTER	PROTECT IN PLACE
⑪	NATURAL GAS	6"	SEMPRA DIST	PROTECT IN PLACE
⑫	OH POWER	12kV	PG&E DIST	RELOCATE
⑬	OH POWER	240V	PG&E DIST	RELOCATE
⑭	OH POWER	240V	PG&E DIST	RELOCATE
⑮	TELECOM	UNK	PACBELL	PROTECT IN PLACE
⑯	OH POWER	12kV	PG&E DIST	RELOCATE
⑰	OH TELECOM	UNK	PACBELL	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
㉘	FIBER OPTIC	UNK	CITY OF SHAFTER	RELOCATE
㉙	STORM DRAIN	54"	CITY OF SHAFTER	RELOCATE
㉚	SEWER	12"	CITY OF SHAFTER	RELOCATE
㉛	WATER	10"	CITY OF SHAFTER	RELOCATE
㉜	OH TELECOM	UNK	PACBELL	RELOCATE
㉝	STORM DRAIN	24"	CITY OF SHAFTER	RELOCATE
㉞	STORM DRAIN	24"	CITY OF SHAFTER	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
DRAWN BY
T. SWEITZER
CHECKED BY
D. CONYERS
IN CHARGE
E. WINTERS
DATE
10/28/2016

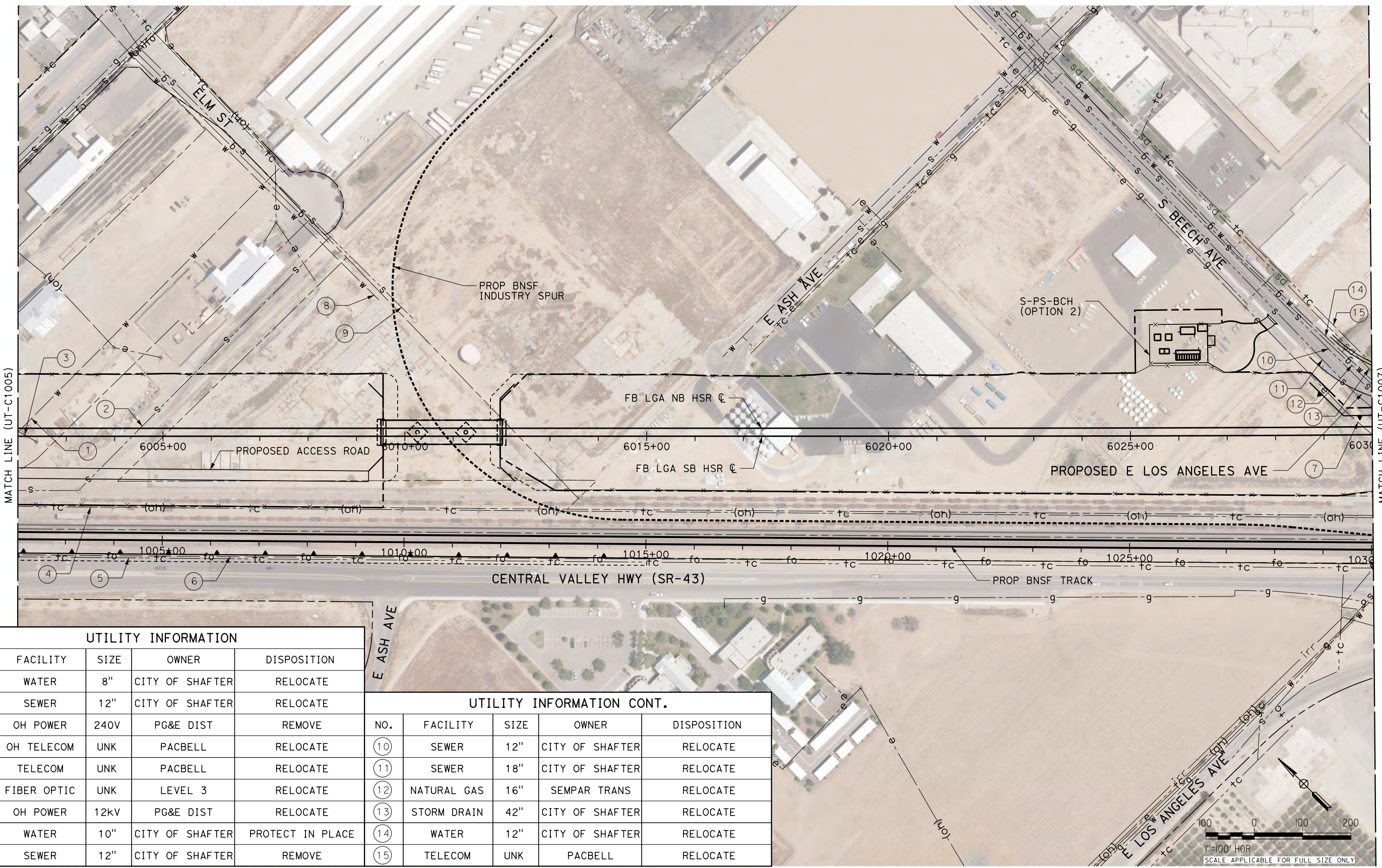
**RECORD SET
PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 5974+00 TO 6002+00

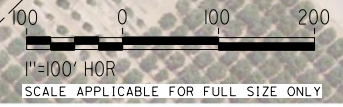
CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C1005
SCALE
AS SHOWN
SHEET NO.

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UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	8"	CITY OF SHAFER	RELOCATE
②	SEWER	12"	CITY OF SHAFER	RELOCATE
③	OH POWER	240V	PG&E DIST	REMOVE
④	OH TELECOM	UNK	PACBELL	RELOCATE
⑤	TELECOM	UNK	PACBELL	RELOCATE
⑥	FIBER OPTIC	UNK	LEVEL 3	RELOCATE
⑦	OH POWER	12kV	PG&E DIST	RELOCATE
⑧	WATER	10"	CITY OF SHAFER	PROTECT IN PLACE
⑨	SEWER	12"	CITY OF SHAFER	REMOVE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑩	SEWER	12"	CITY OF SHAFER	RELOCATE
⑪	SEWER	18"	CITY OF SHAFER	RELOCATE
⑫	NATURAL GAS	16"	SEMPAR TRANS	RELOCATE
⑬	STORM DRAIN	42"	CITY OF SHAFER	RELOCATE
⑭	WATER	12"	CITY OF SHAFER	RELOCATE
⑮	TELECOM	UNK	PACBELL	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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T. SWEITZER
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IN CHARGE
E. WINTERS
DATE
10/28/2016

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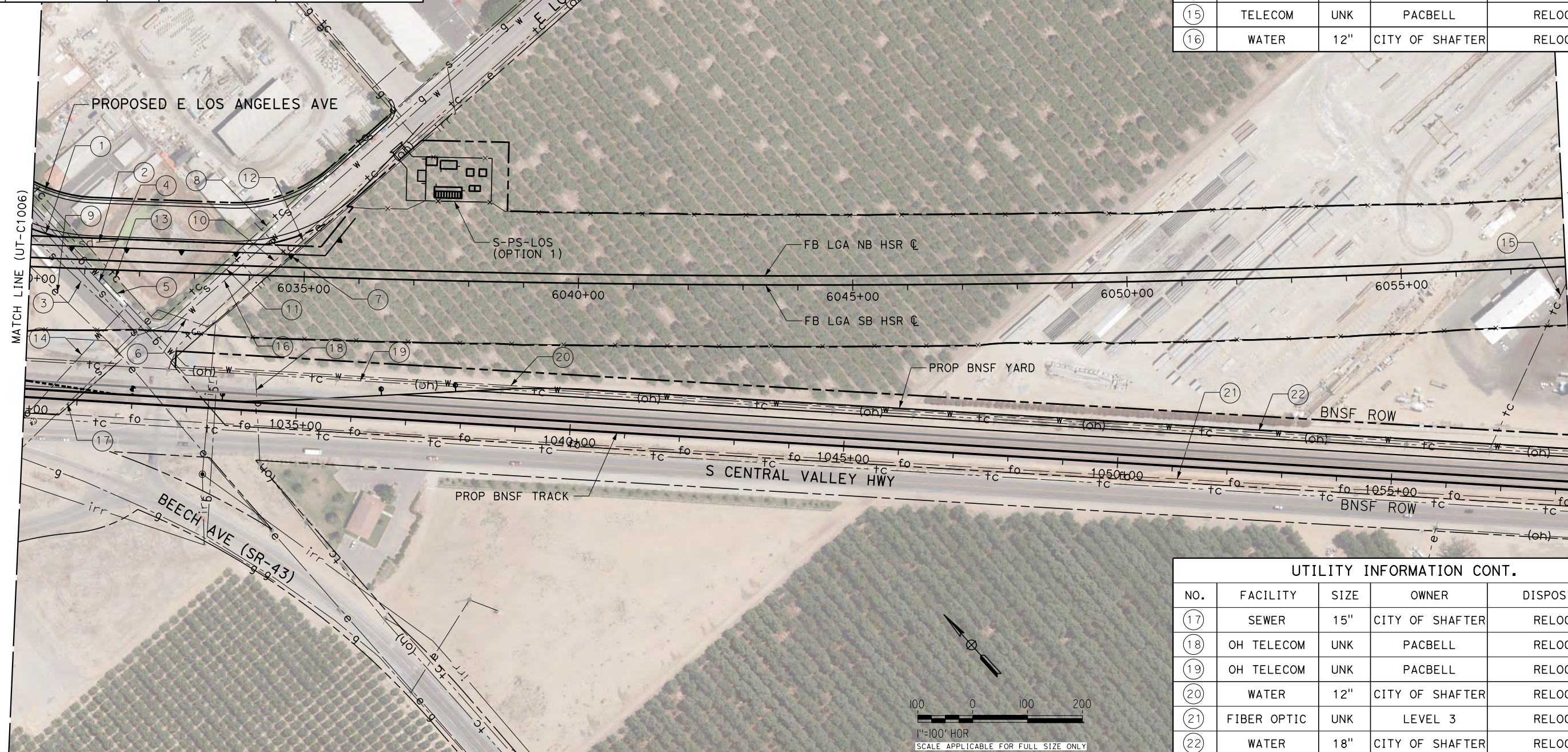


**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6002+00 TO 6030+00

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C1006
SCALE
AS SHOWN
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	SEWER	12"	CITY OF SHAFTER	RELOCATE
②	STORM DRAIN	42"	CITY OF SHAFTER	RELOCATE
③	SEWER	18"	CITY OF SHAFTER	RELOCATE
④	NATURAL GAS	16"	SEMPRA TRANS	RELOCATE
⑤	WATER	12"	CITY OF SHAFTER	RELOCATE
⑥	OH POWER	UNK	PG&E DIST	RELOCATE
⑦	IRRIGATION	42"	SWID	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑧	TELECOM	UNK	PACBELL	RELOCATE
⑨	OH POWER	12kV	PG&E DIST	RELOCATE
⑩	TELECOM	UNK	PACBELL	RELOCATE
⑪	SEWER	12"	CITY OF SHAFTER	RELOCATE
⑫	OH POWER	12kV	PG&E DIST	RELOCATE
⑬	TELECOM	UNK	PACBELL	RELOCATE
⑭	WATER	14"	CITY OF SHAFTER	RELOCATE
⑮	TELECOM	UNK	PACBELL	RELOCATE
⑯	WATER	12"	CITY OF SHAFTER	RELOCATE



UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑰	SEWER	15"	CITY OF SHAFTER	RELOCATE
⑱	OH TELECOM	UNK	PACBELL	RELOCATE
⑲	OH TELECOM	UNK	PACBELL	RELOCATE
⑳	WATER	12"	CITY OF SHAFTER	RELOCATE
㉑	FIBER OPTIC	UNK	LEVEL 3	RELOCATE
㉒	WATER	18"	CITY OF SHAFTER	RELOCATE

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
 DRAWN BY
T. SWEITZER
 CHECKED BY
D. CONYERS
 IN CHARGE
E. WINTERS
 DATE
10/28/2016

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PEPD DESIGN
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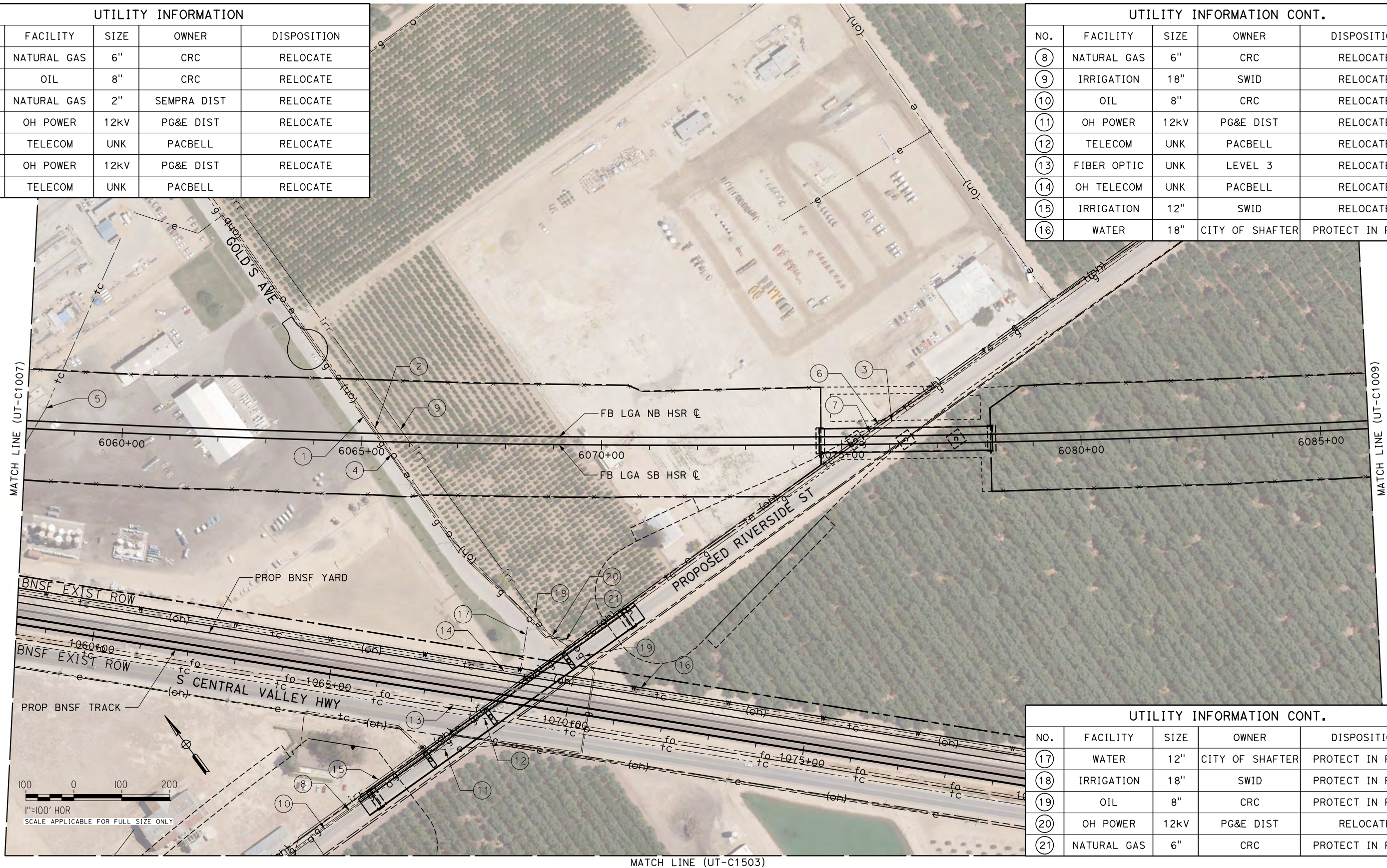


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6030+00 TO 6058+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1007
 SCALE
AS SHOWN
 SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	NATURAL GAS	6"	CRC	RELOCATE
②	OIL	8"	CRC	RELOCATE
③	NATURAL GAS	2"	SEMPRA DIST	RELOCATE
④	OH POWER	12KV	PG&E DIST	RELOCATE
⑤	TELECOM	UNK	PACBELL	RELOCATE
⑥	OH POWER	12KV	PG&E DIST	RELOCATE
⑦	TELECOM	UNK	PACBELL	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑧	NATURAL GAS	6"	CRC	RELOCATE
⑨	IRRIGATION	18"	SWID	RELOCATE
⑩	OIL	8"	CRC	RELOCATE
⑪	OH POWER	12KV	PG&E DIST	RELOCATE
⑫	TELECOM	UNK	PACBELL	RELOCATE
⑬	FIBER OPTIC	UNK	LEVEL 3	RELOCATE
⑭	OH TELECOM	UNK	PACBELL	RELOCATE
⑮	IRRIGATION	12"	SWID	RELOCATE
⑯	WATER	18"	CITY OF SHAFER	PROTECT IN PLACE



UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑰	WATER	12"	CITY OF SHAFER	PROTECT IN PLACE
⑱	IRRIGATION	18"	SWID	PROTECT IN PLACE
⑲	OIL	8"	CRC	PROTECT IN PLACE
⑳	OH POWER	12KV	PG&E DIST	RELOCATE
㉑	NATURAL GAS	6"	CRC	PROTECT IN PLACE

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D. SALGADO
 DRAWN BY
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 IN CHARGE
E. WINTERS
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10/28/2016

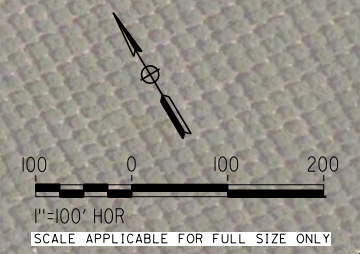
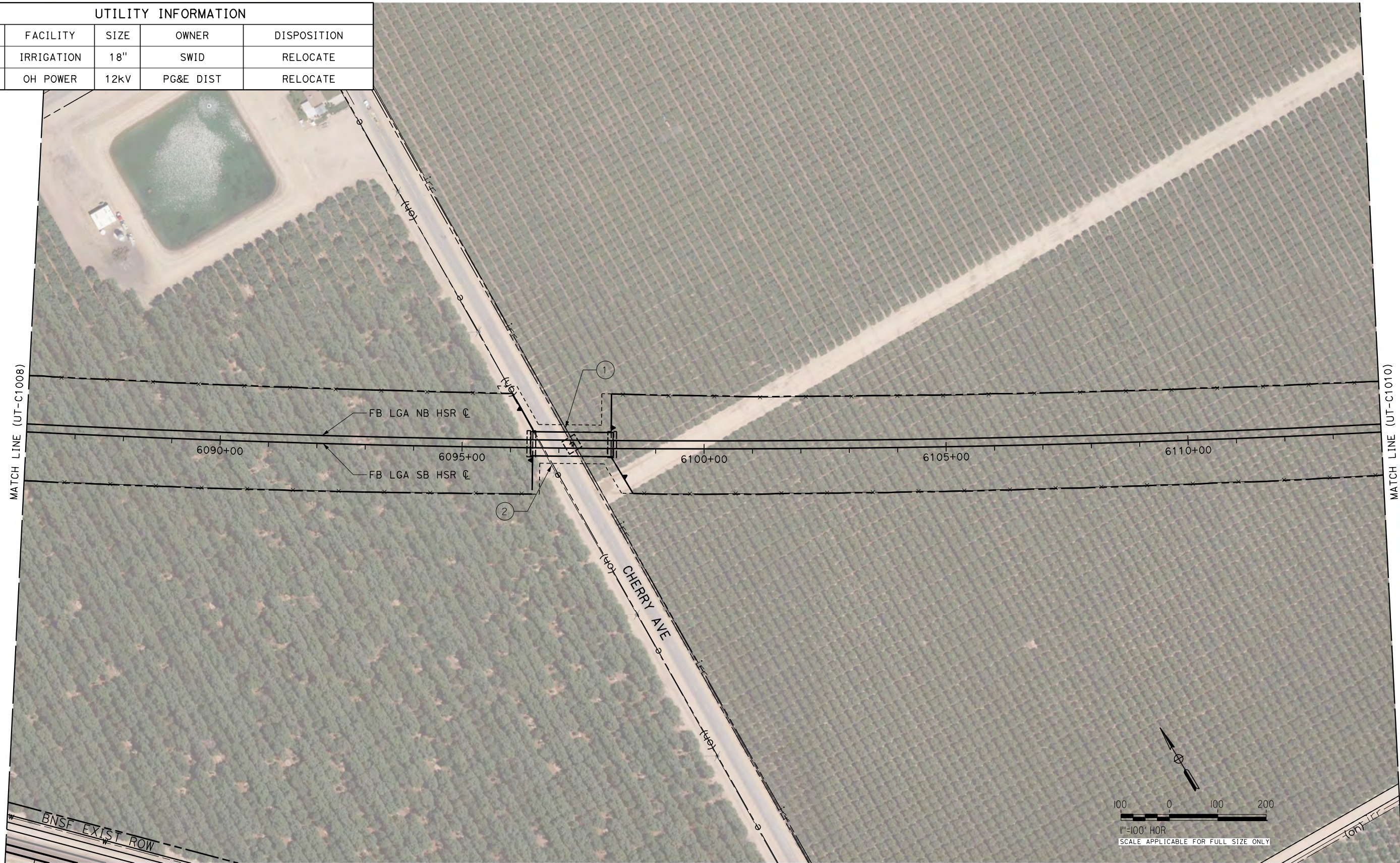
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6058+00 TO 6086+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1008
 SCALE
AS SHOWN
 SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	IRRIGATION	18"	SWID	RELOCATE
②	OH POWER	12KV	PG&E DIST	RELOCATE



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D. SALGADO
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T. SWEITZER
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D. CONYERS
 IN CHARGE
E. WINTERS
 DATE
10/28/2016

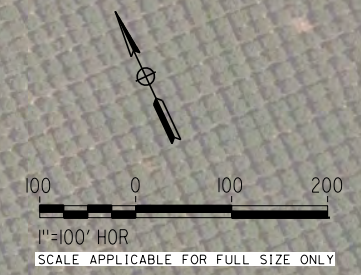
RECORD SET
PEPD DESIGN
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6086+00 TO 6114+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1009
 SCALE
AS SHOWN
 SHEET NO.

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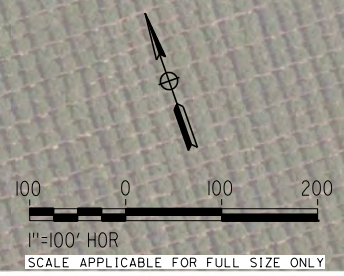
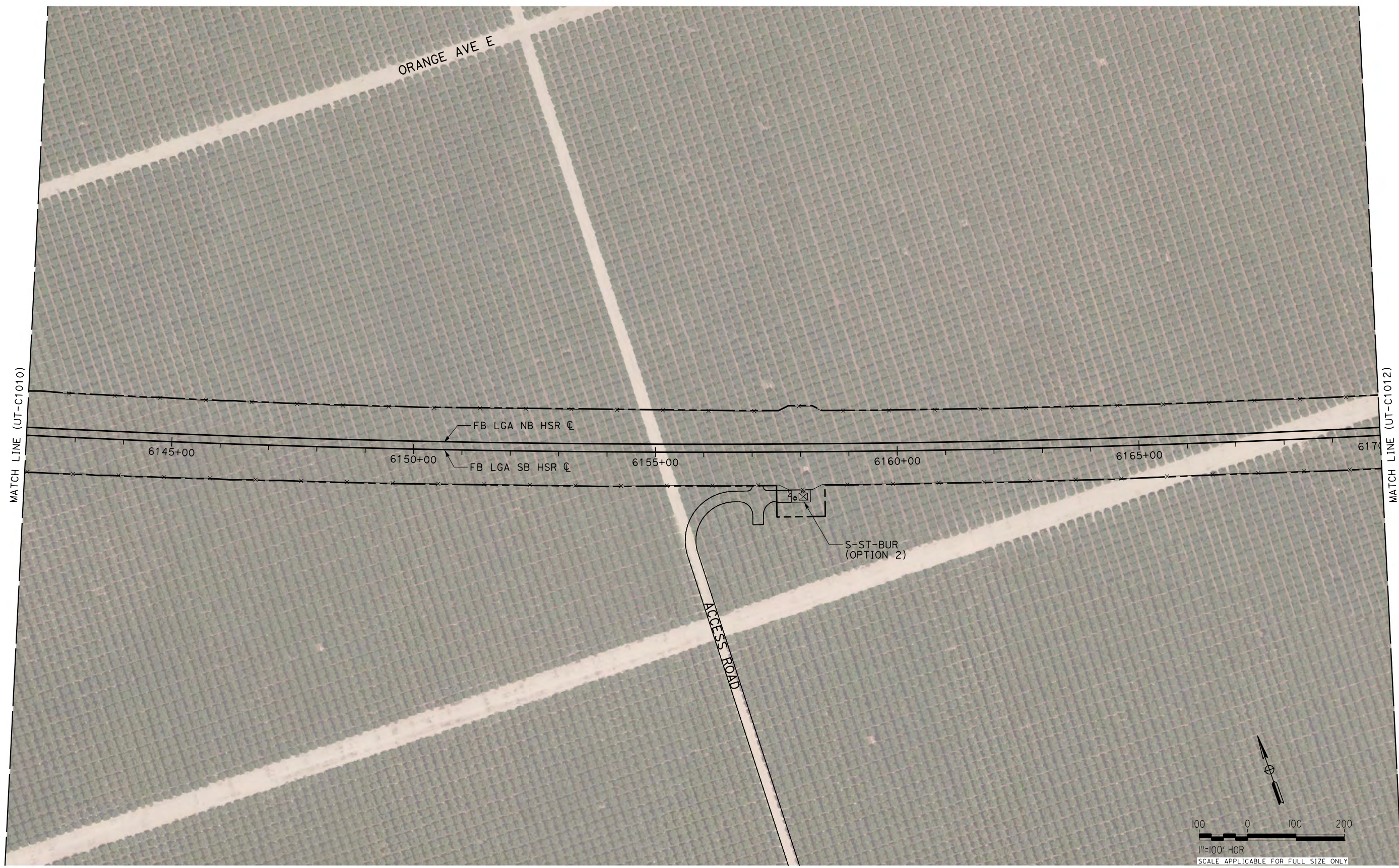
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6114+00 TO 6142+00

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C1010
SCALE
AS SHOWN
SHEET NO.

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DESIGNED BY
D. SALGADO

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T. SWEITZER

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D. CONYERS

IN CHARGE
E. WINTERS

DATE
10/28/2016

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PEPD DESIGN
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6142+00 TO 6170+00

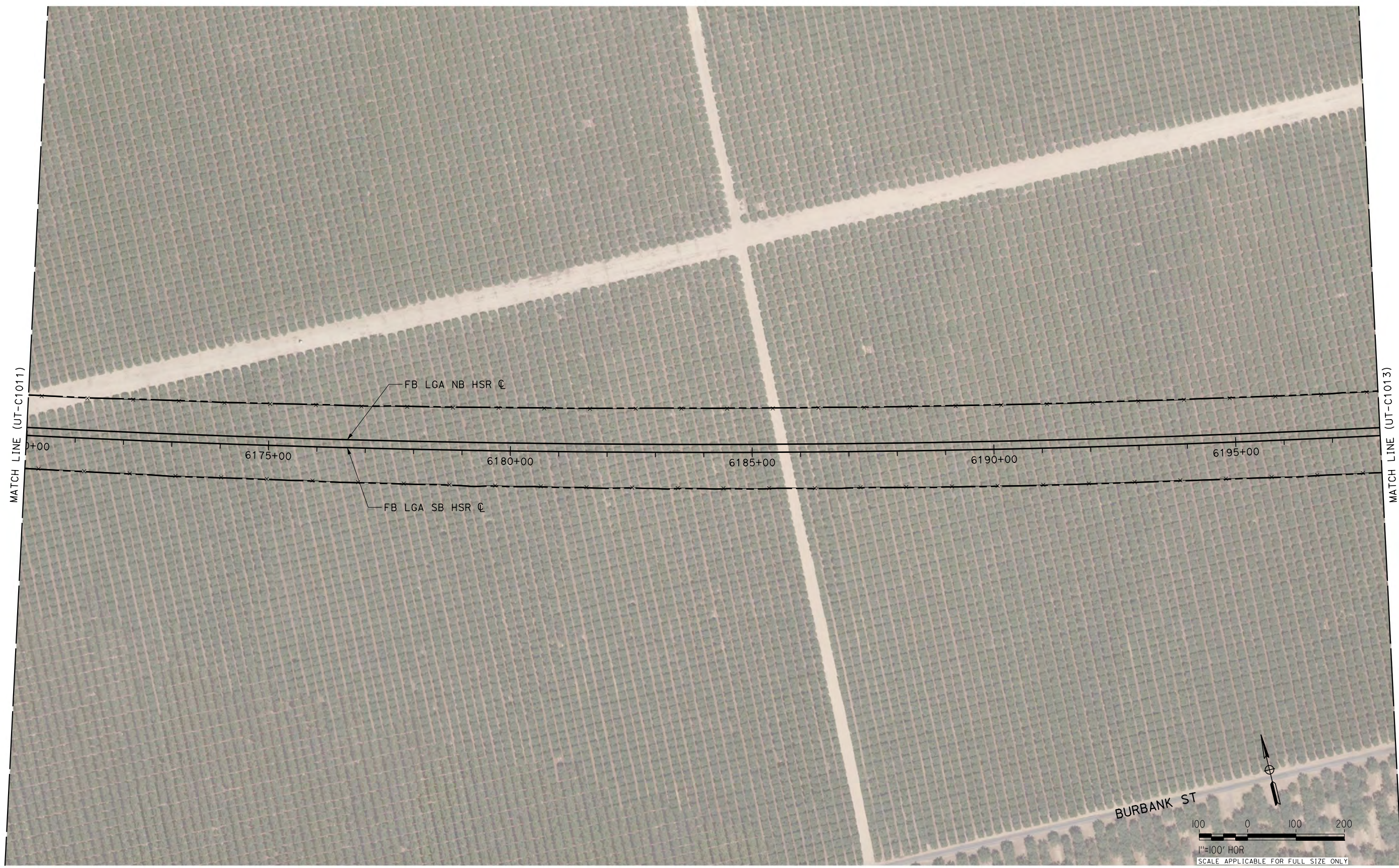
CONTRACT NO.
HSR13-44

DRAWING NO.
UT-C1011

SCALE
AS SHOWN

SHEET NO.

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REV	DATE	BY	CHK	APP	DESCRIPTION

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D. SALGADO

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E. WINTERS

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10/28/2016

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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6170+00 TO 6198+00

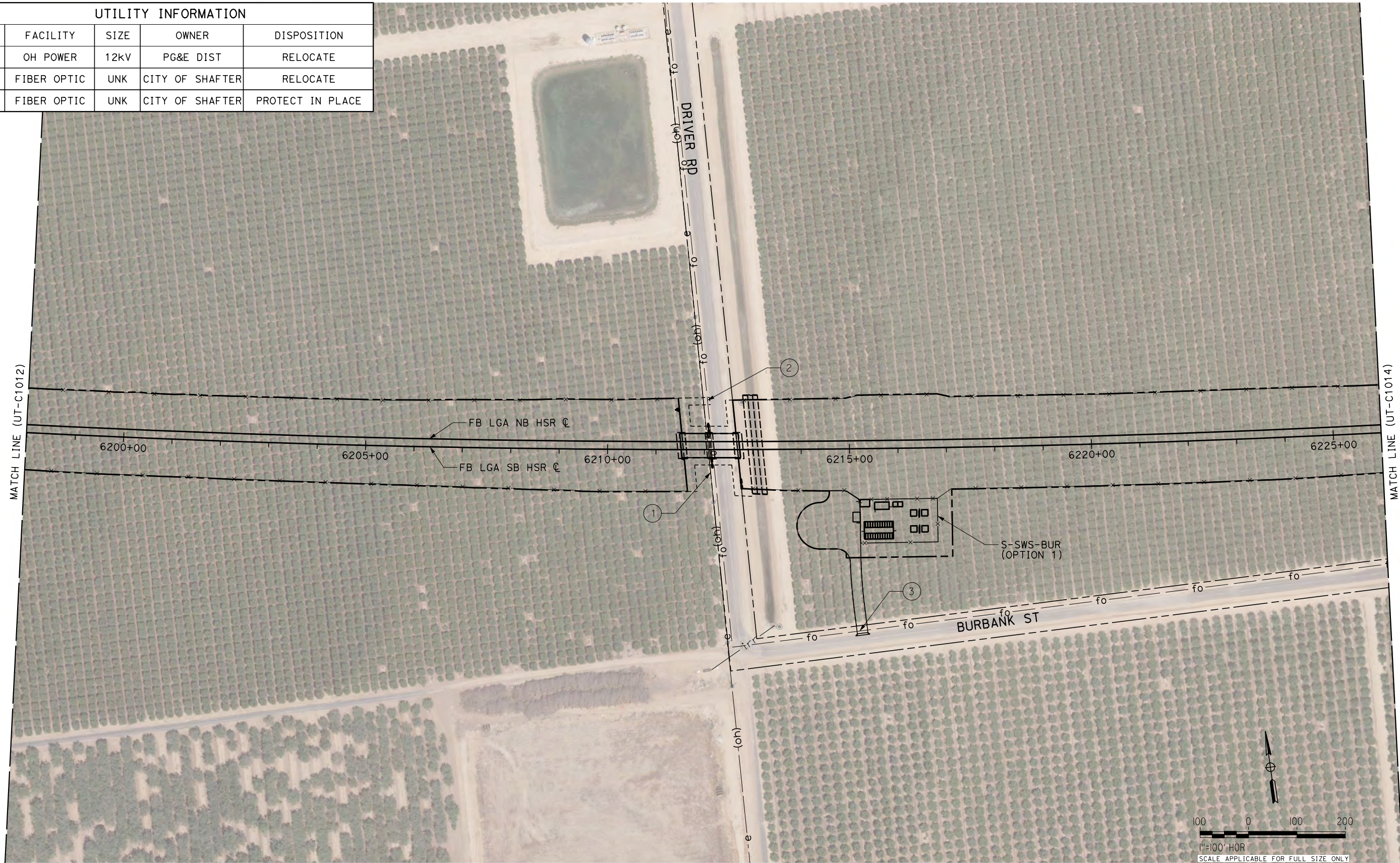
CONTRACT NO.
HSR13-44

DRAWING NO.
UT-C1012

SCALE
AS SHOWN

SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	OH POWER	12KV	PG&E DIST	RELOCATE
②	FIBER OPTIC	UNK	CITY OF SHAFTER	RELOCATE
③	FIBER OPTIC	UNK	CITY OF SHAFTER	PROTECT IN PLACE

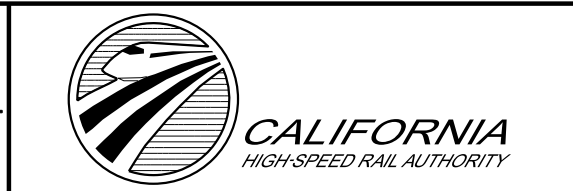


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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
 DRAWN BY
T. SWEITZER
 CHECKED BY
D. CONYERS
 IN CHARGE
E. WINTERS
 DATE
10/28/2016

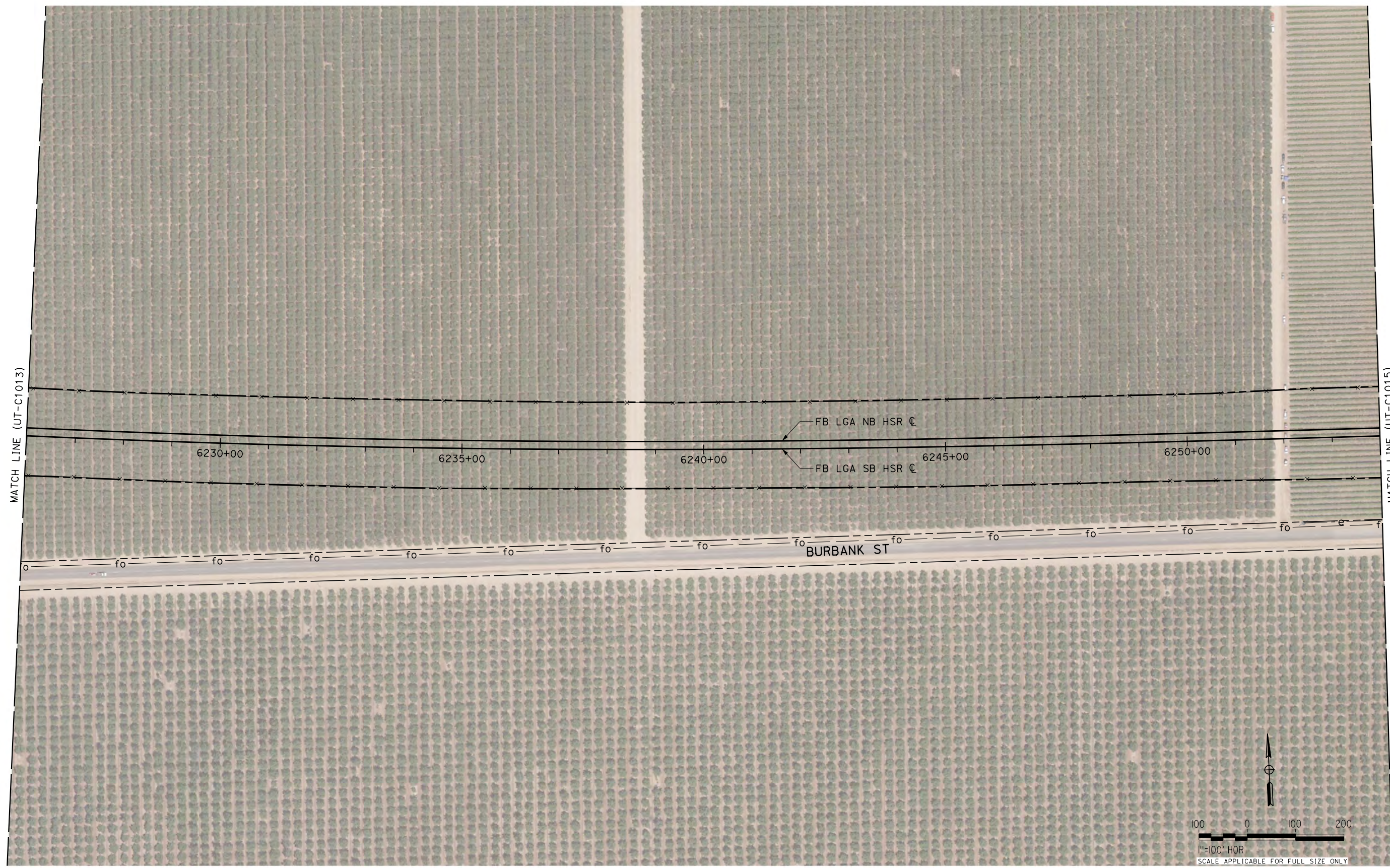
RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6198+00 TO 6226+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1013
 SCALE
AS SHOWN
 SHEET NO.

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
DRAWN BY
T. SWEITZER
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D. CONYERS
IN CHARGE
E. WINTERS
DATE
10/28/2016

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PEPD DESIGN
SUBMISSION**

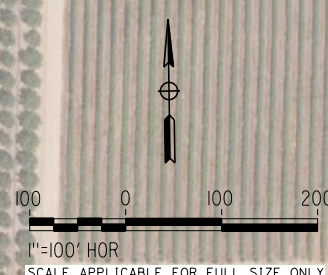
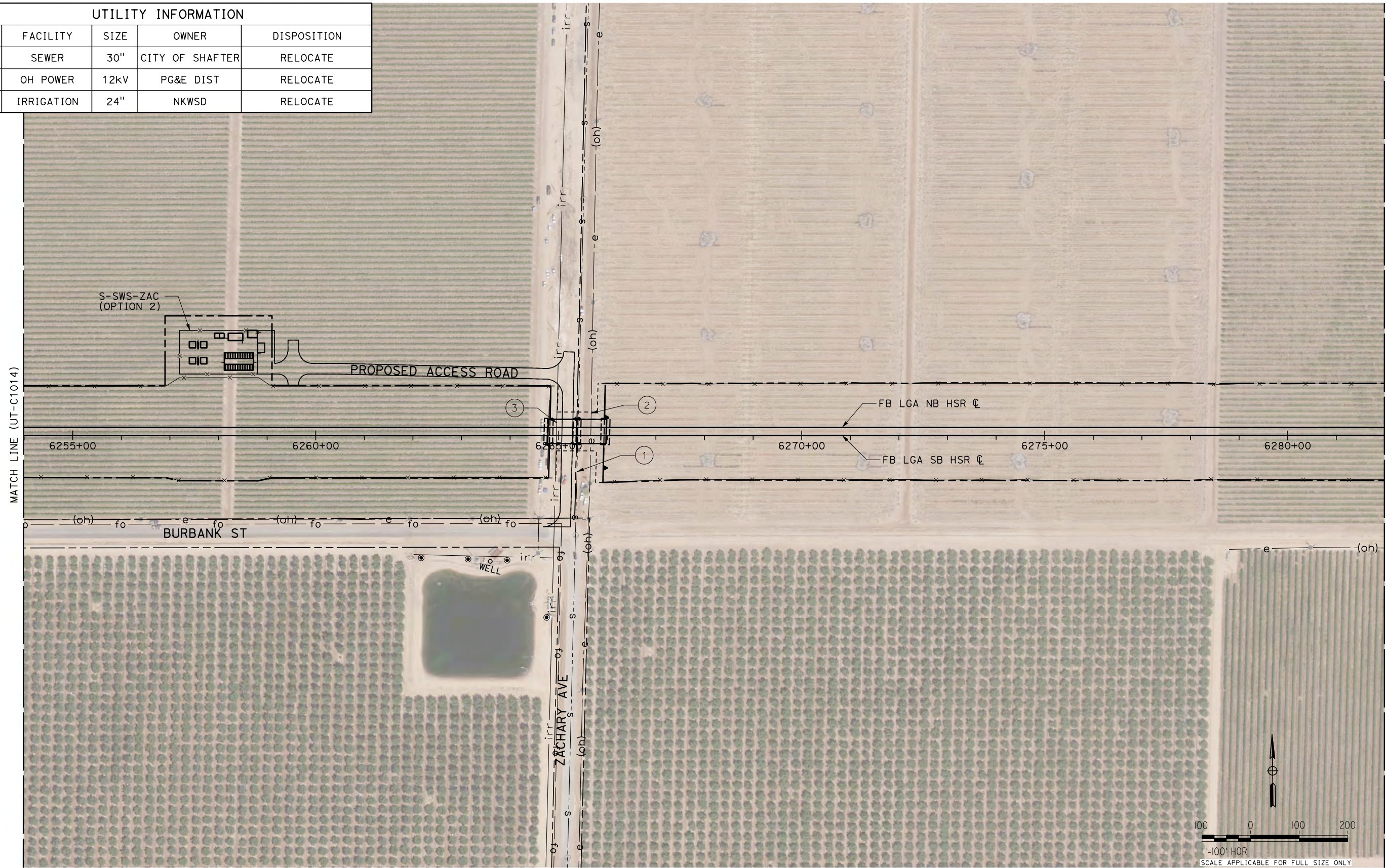
TYLIN INTERNATIONAL



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6226+00 TO 6254+00

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C1014
SCALE
AS SHOWN
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	SEWER	30"	CITY OF SHAFTER	RELOCATE
②	OH POWER	12KV	PG&E DIST	RELOCATE
③	IRRIGATION	24"	NKWSD	RELOCATE



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
 DRAWN BY
T. SWEITZER
 CHECKED BY
D. CONYERS
 IN CHARGE
E. WINTERS
 DATE
10/28/2016

RECORD SET
PEPD DESIGN
SUBMISSION

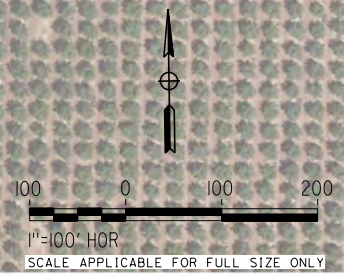
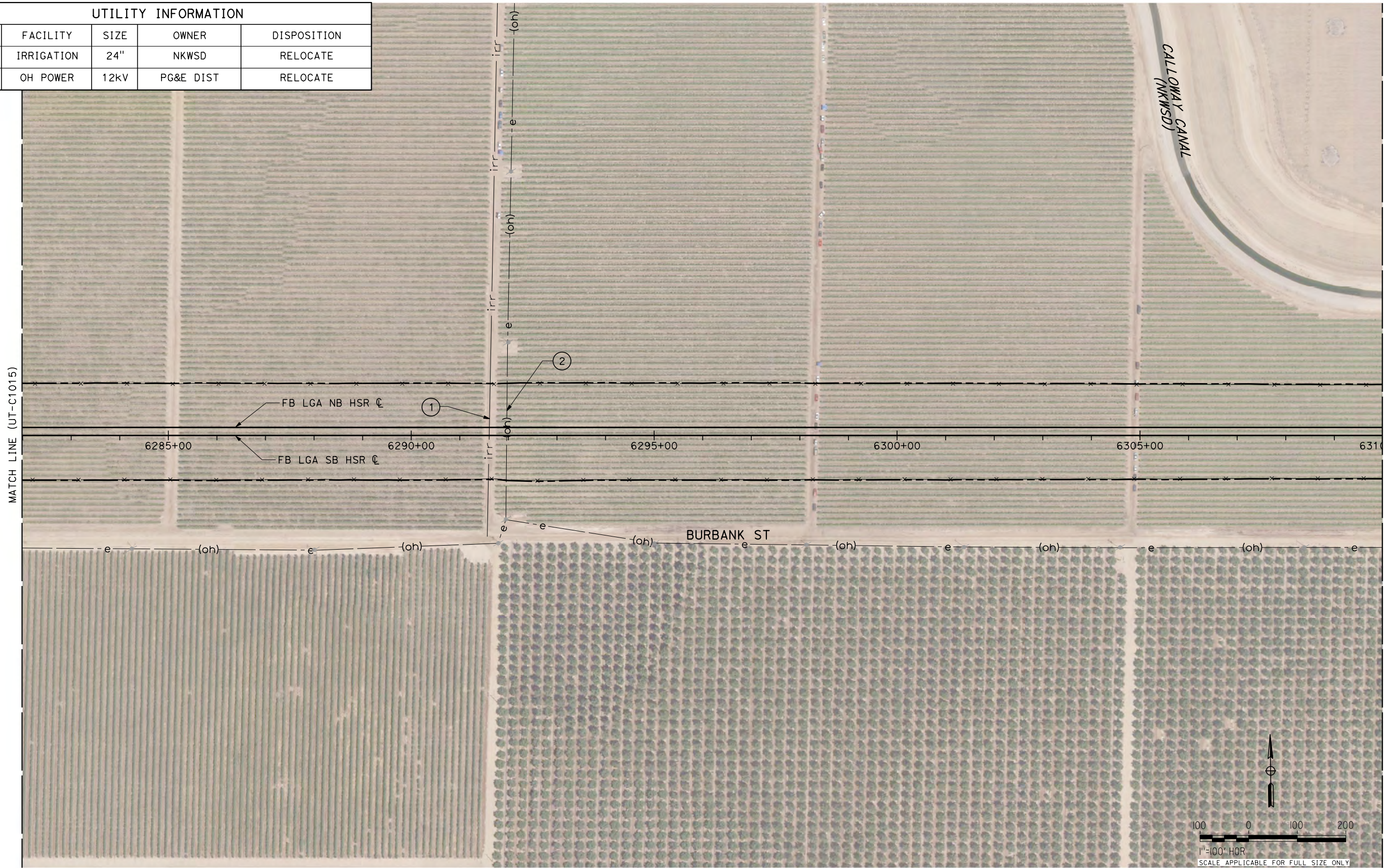


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6254+00 TO 6282+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1015
 SCALE
AS SHOWN
 SHEET NO.

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UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	IRRIGATION	24"	NKWS	RELOCATE
②	OH POWER	12KV	PG&E DIST	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
DRAWN BY
T. SWEITZER
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D. CONYERS
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E. WINTERS
DATE
10/28/2016

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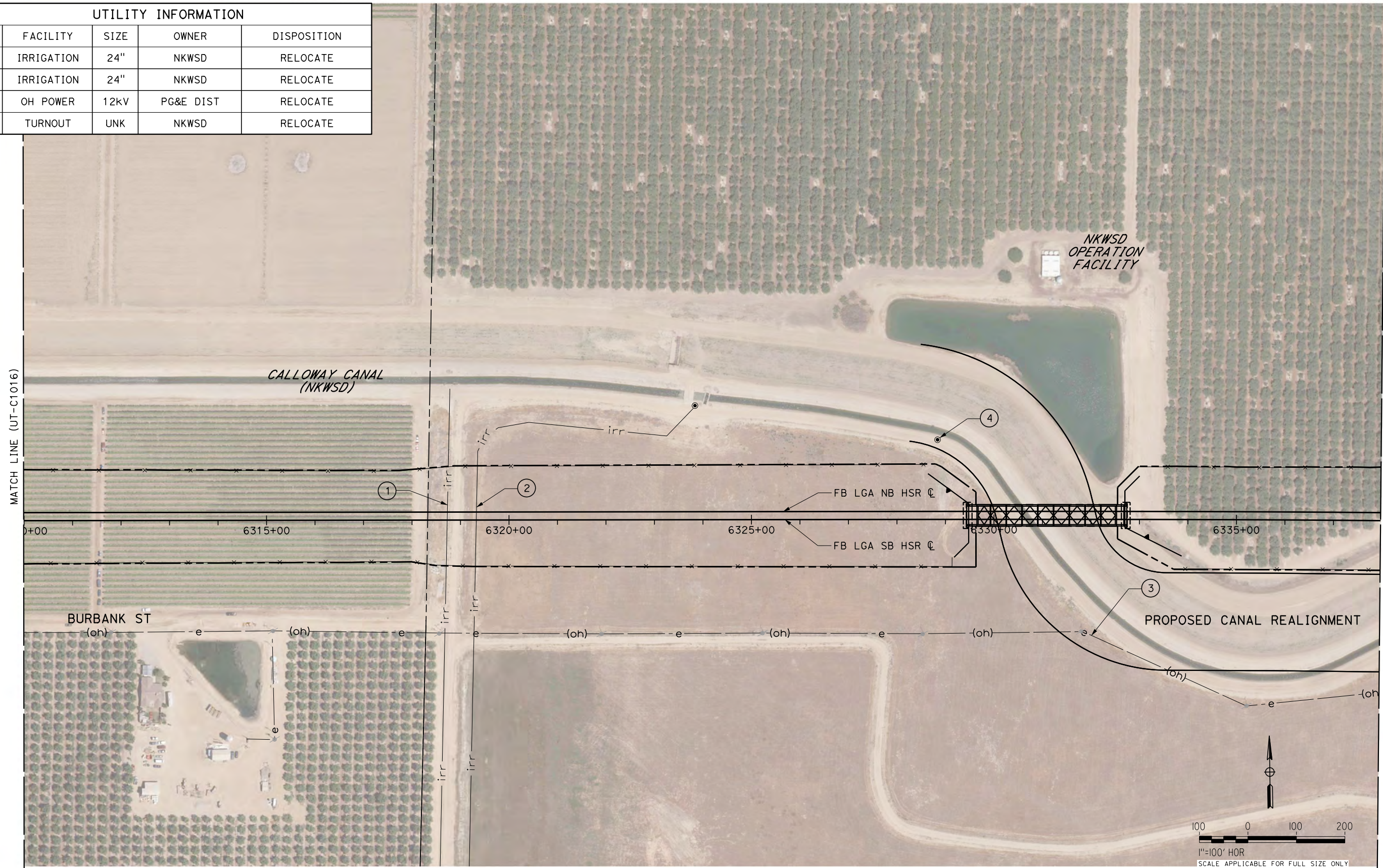
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6282+00 TO 6310+00

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C1016
SCALE
AS SHOWN
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	IRRIGATION	24"	NKWS	RELOCATE
②	IRRIGATION	24"	NKWS	RELOCATE
③	OH POWER	12KV	PG&E DIST	RELOCATE
④	TURNOUT	UNK	NKWS	RELOCATE



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D. SALGADO
 DRAWN BY
T. SWEITZER
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D. CONYERS
 IN CHARGE
E. WINTERS
 DATE
10/28/2016

RECORD SET
PEPD DESIGN
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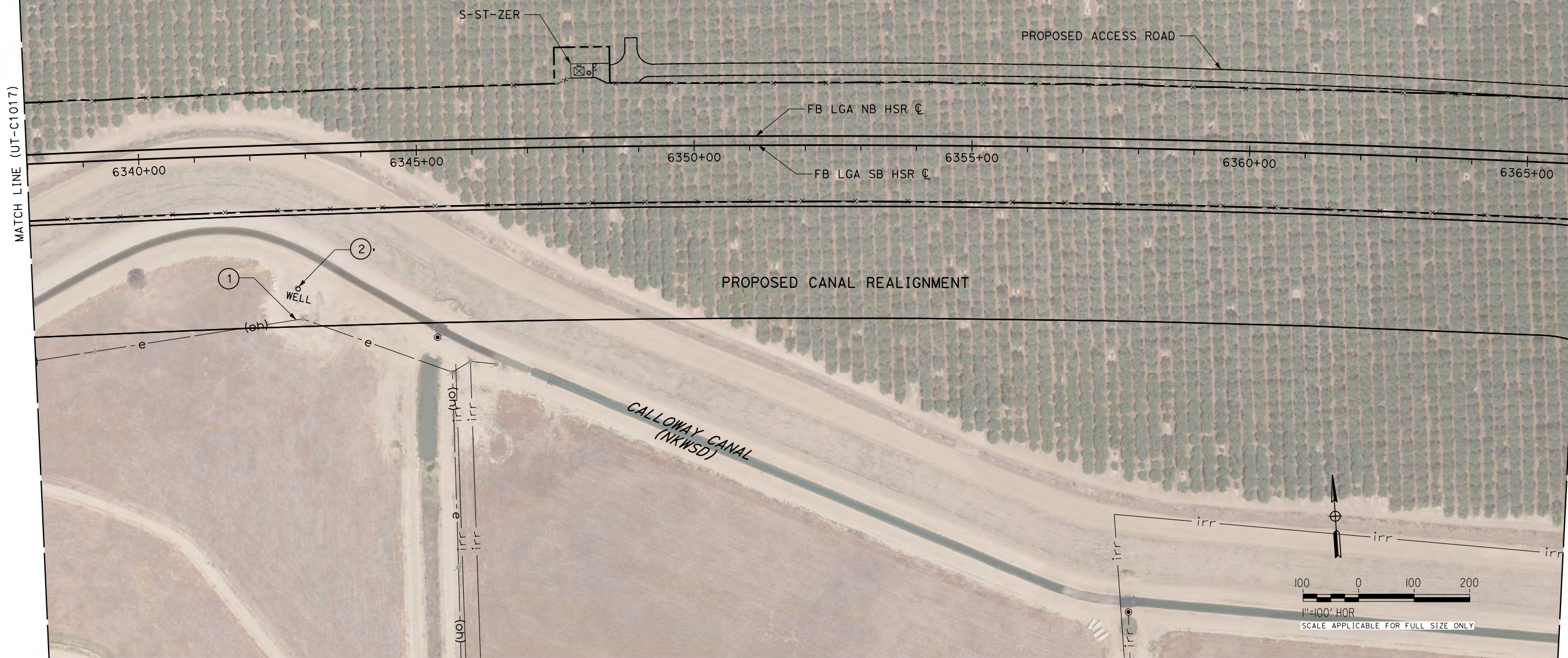
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6310+00 TO 6338+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1017
 SCALE
AS SHOWN
 SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	OH POWER	12KV	PG&E DIST	RELOCATE
②	GNDW WELL	UNK	NKWS	RELOCATE

MATCH LINE (UT-C1017)

MATCH LINE (UT-C1019)



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DESIGNED BY
D. SALGADO
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T. SWEITZER
CHECKED BY
D. CONYERS
IN CHARGE
E. WINTERS
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**

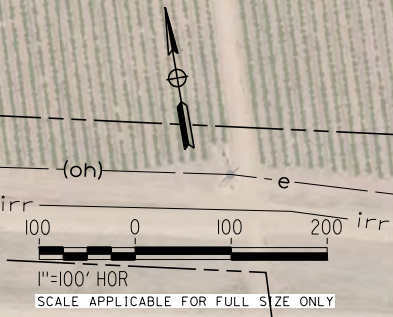
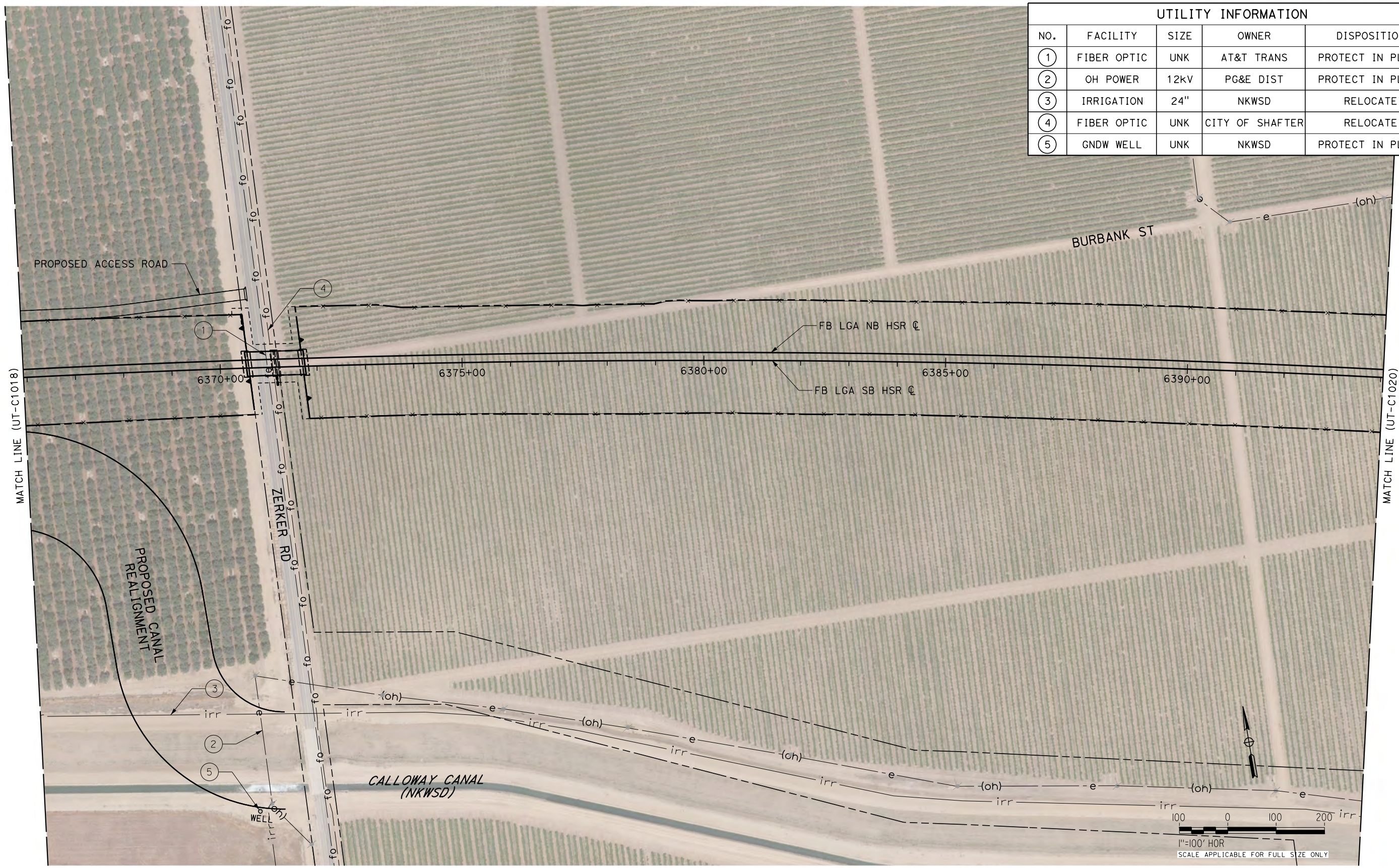


**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6338+00 TO 6366+00

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C1018
SCALE
AS SHOWN
SHEET NO.

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UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	FIBER OPTIC	UNK	AT&T TRANS	PROTECT IN PLACE
②	OH POWER	12KV	PG&E DIST	PROTECT IN PLACE
③	IRRIGATION	24"	NKWSO	RELOCATE
④	FIBER OPTIC	UNK	CITY OF SHAFTER	RELOCATE
⑤	GNDW WELL	UNK	NKWSO	PROTECT IN PLACE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
DRAWN BY
T. SWEITZER
CHECKED BY
D. CONYERS
IN CHARGE
E. WINTERS
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**

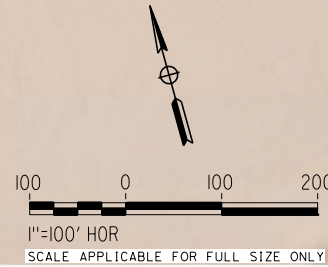
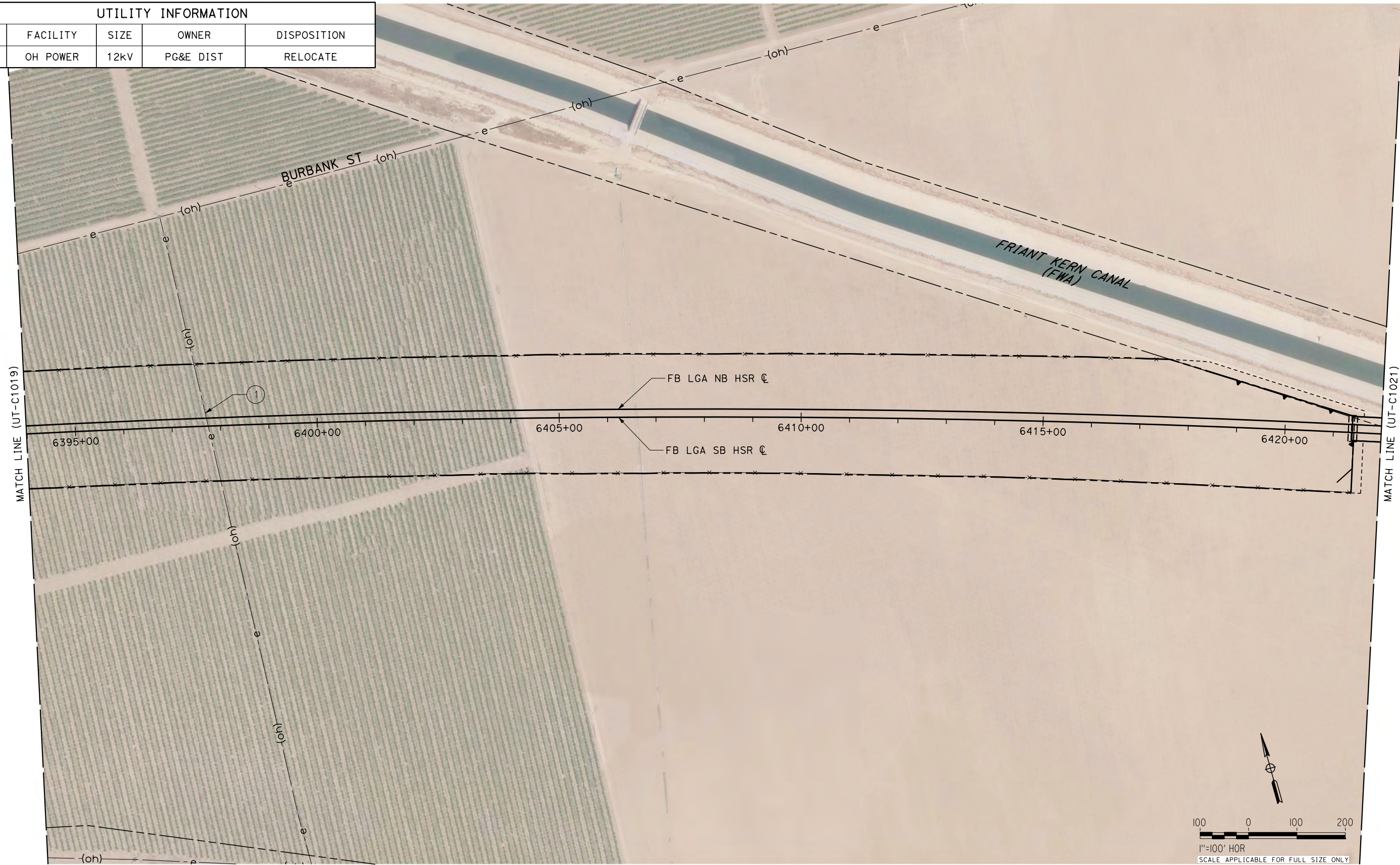
TYLIN INTERNATIONAL



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6366+00 TO 6394+00

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C1019
SCALE
AS SHOWN
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	OH POWER	12kv	PG&E DIST	RELOCATE



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T. SWEITZER
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D. CONYERS
 IN CHARGE
E. WINTERS
 DATE
10/28/2016

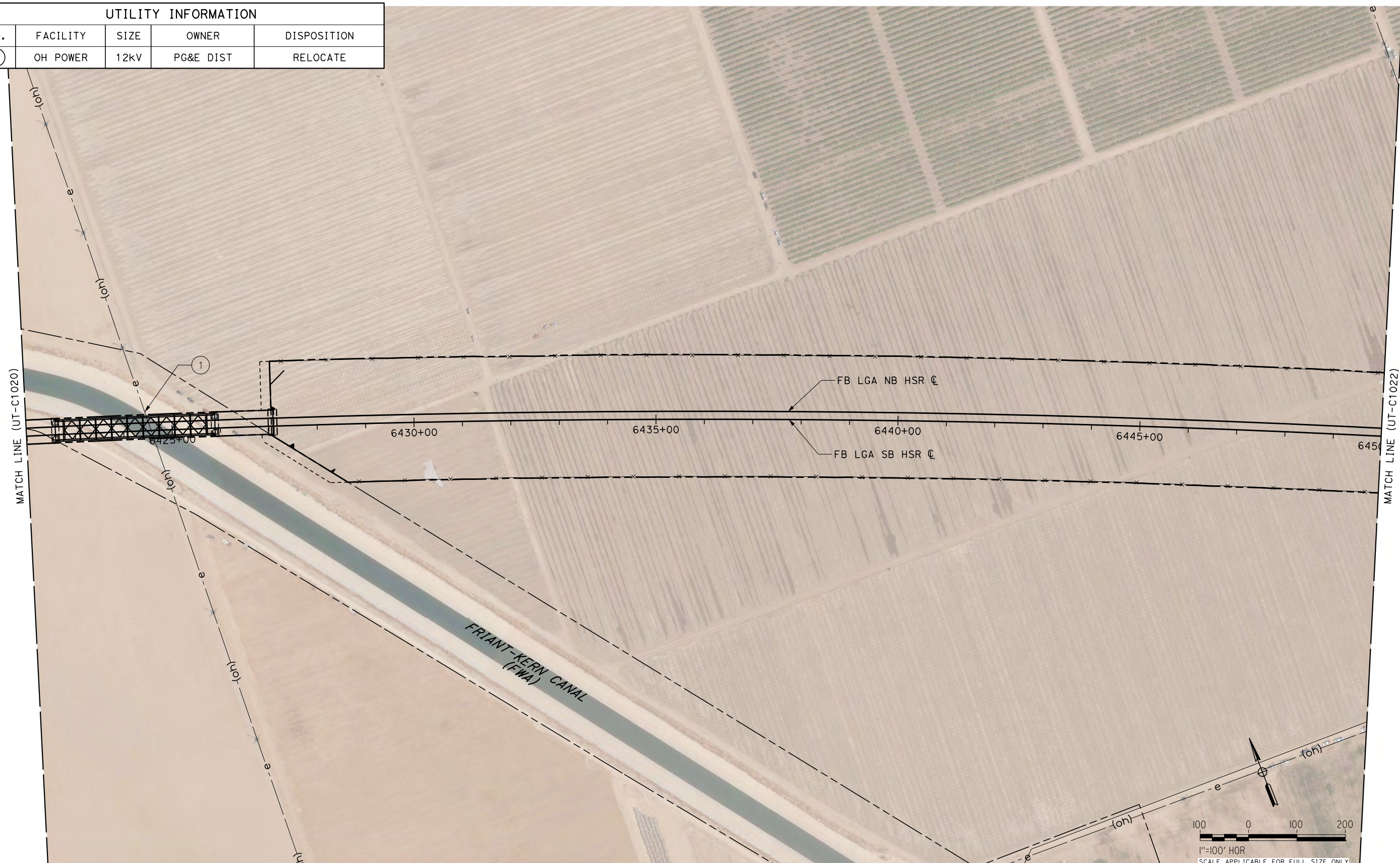
RECORD SET
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6394+00 TO 6422+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1020
 SCALE
AS SHOWN
 SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	OH POWER	12kV	PG&E DIST	RELOCATE



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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6422+00 TO 6450+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1021
 SCALE
AS SHOWN
 SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	OH POWER	12kV	PG&E DIST	RELOCATE
②	IRRIGATION	24"	NKWS D	RELOCATE



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REV	DATE	BY	CHK	APP	DESCRIPTION

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10/28/2016

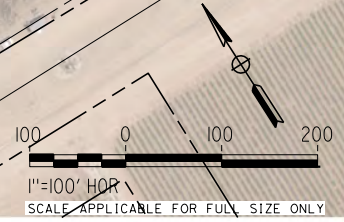
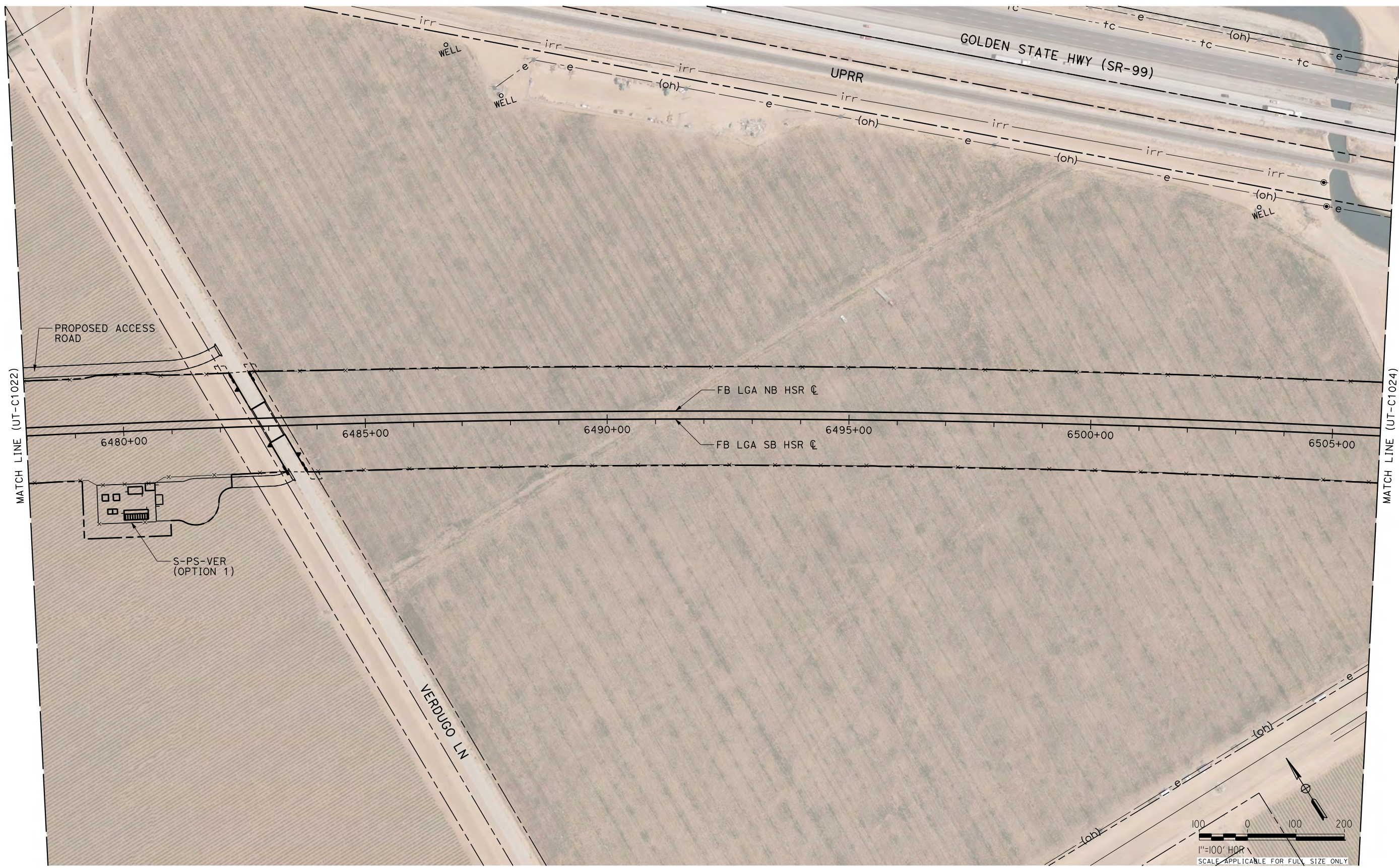
RECORD SET
PEPD DESIGN
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6450+00 TO 6478+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1022
 SCALE
AS SHOWN
 SHEET NO.

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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6478+00 TO 6506+00

CONTRACT NO.
HSR13-44

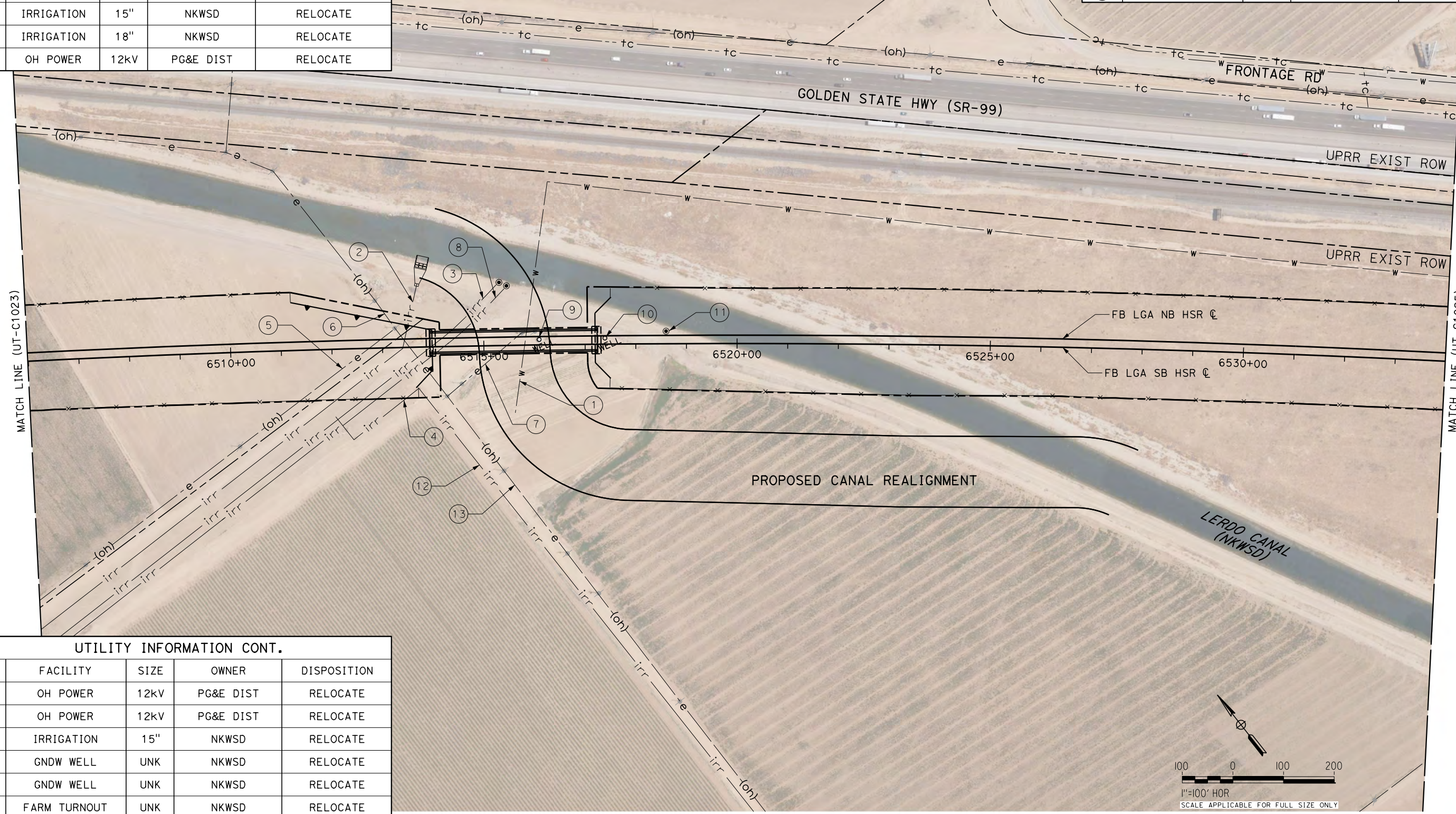
DRAWING NO.
UT-C1023

SCALE
AS SHOWN

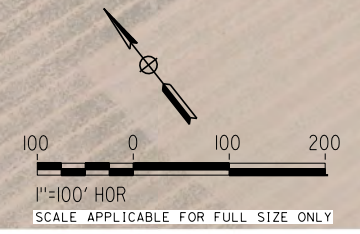
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	16"	OMW	RELOCATE
②	IRRIGATION	96"	NKWS	RELOCATE
③	IRRIGATION	15"	NKWS	RELOCATE
④	IRRIGATION	18"	NKWS	RELOCATE
⑤	OH POWER	12KV	PG&E DIST	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑫	IRRIGATION	18"	NKWS	RELOCATE
⑬	OH POWER	12KV	PG&E DIST	RELOCATE



UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑥	OH POWER	12KV	PG&E DIST	RELOCATE
⑦	OH POWER	12KV	PG&E DIST	RELOCATE
⑧	IRRIGATION	15"	NKWS	RELOCATE
⑨	GNDW WELL	UNK	NKWS	RELOCATE
⑩	GNDW WELL	UNK	NKWS	RELOCATE
⑪	FARM TURNOUT	UNK	NKWS	RELOCATE



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T. SWEITZER
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D. CONYERS
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10/28/2016

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PEPD DESIGN
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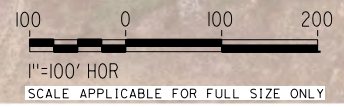
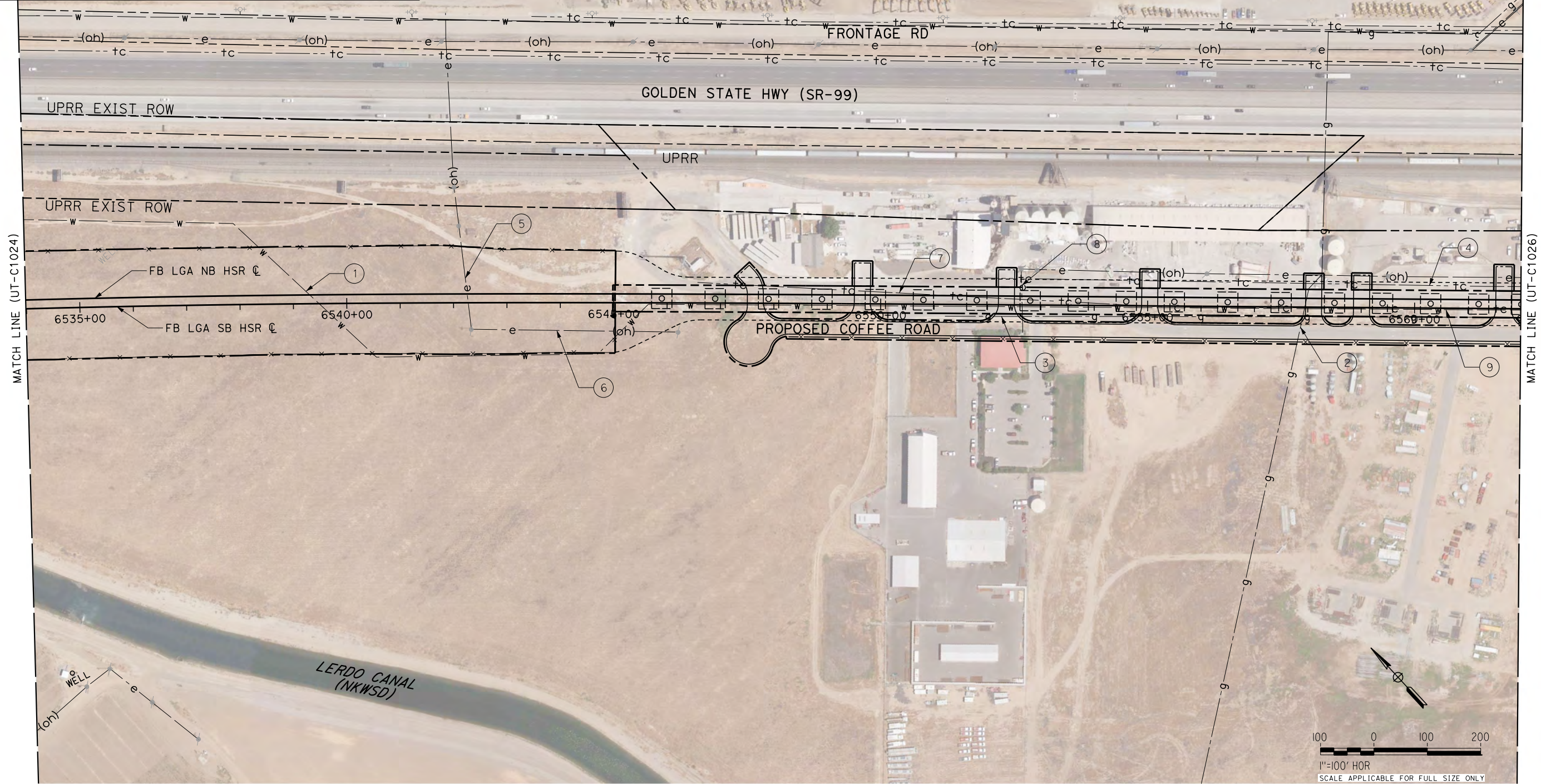


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6506+00 TO 6534+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1024
 SCALE
AS SHOWN
 SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	12"	OMW	RELOCATE
②	NATURAL GAS	24"	SEMPRA TRANS	PROTECT IN PLACE
③	NATURAL GAS	3"	SEMPRA DIST	RELOCATE
④	TELECOM	UNK	PACBELL	PROTECT IN PLACE
⑤	OH POWER	12KV	PG&E DIST	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑥	OH POWER	12KV	PG&E DIST	RELOCATE
⑦	TELECOM	UNK	PACBELL	RELOCATE
⑧	OH POWER	12KV	PG&E DIST	RELOCATE
⑨	WATER	12"	OMW	RELOCATE



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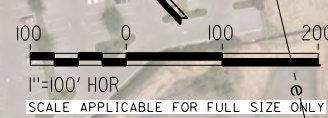
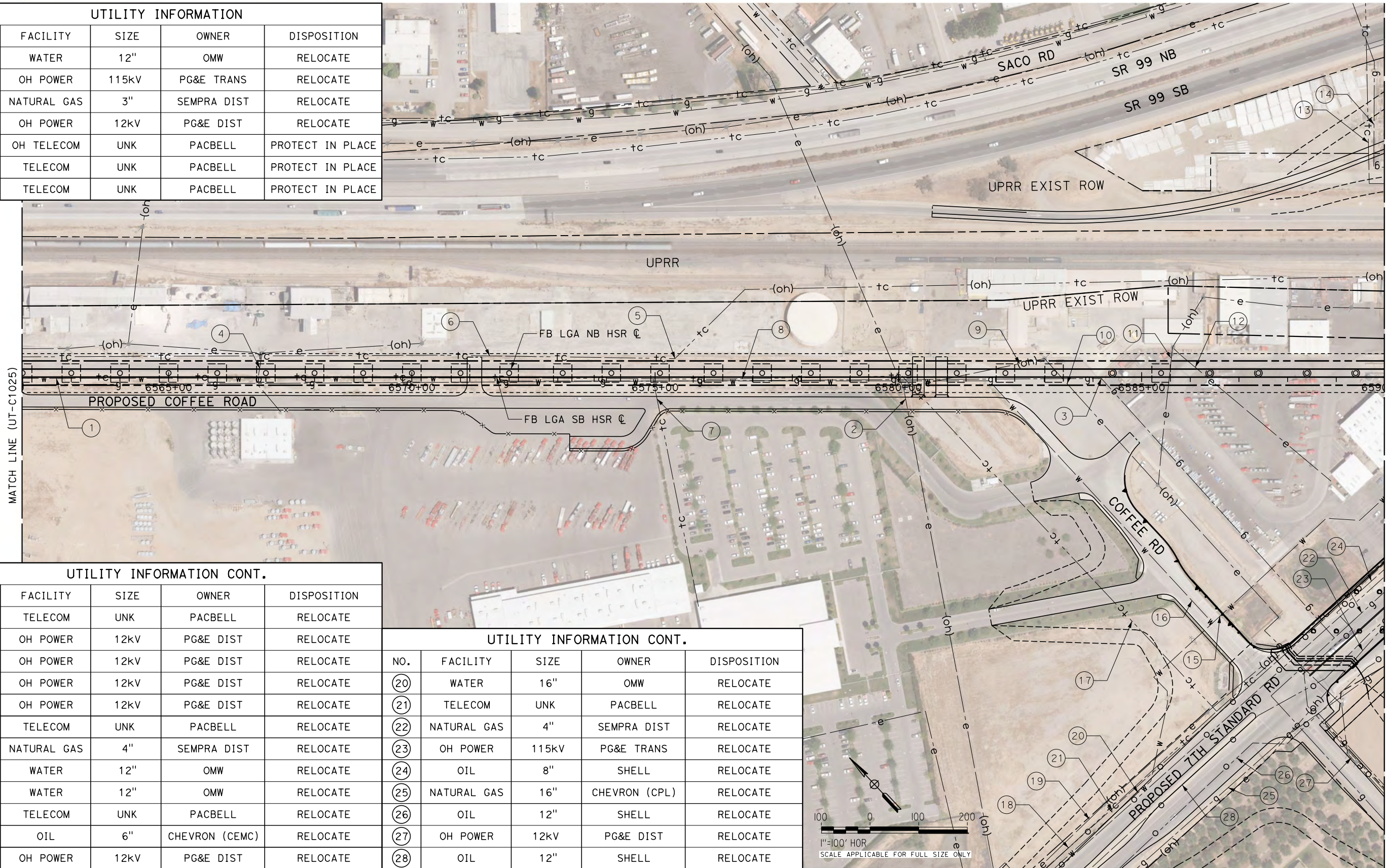
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6534+00 TO 6562+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1025
 SCALE
AS SHOWN
 SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	12"	OMW	RELOCATE
②	OH POWER	115kV	PG&E TRANS	RELOCATE
③	NATURAL GAS	3"	SEMPRA DIST	RELOCATE
④	OH POWER	12kV	PG&E DIST	RELOCATE
⑤	OH TELECOM	UNK	PACBELL	PROTECT IN PLACE
⑥	TELECOM	UNK	PACBELL	PROTECT IN PLACE
⑦	TELECOM	UNK	PACBELL	PROTECT IN PLACE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑧	TELECOM	UNK	PACBELL	RELOCATE
⑨	OH POWER	12kV	PG&E DIST	RELOCATE
⑩	OH POWER	12kV	PG&E DIST	RELOCATE
⑪	OH POWER	12kV	PG&E DIST	RELOCATE
⑫	OH POWER	12kV	PG&E DIST	RELOCATE
⑬	TELECOM	UNK	PACBELL	RELOCATE
⑭	NATURAL GAS	4"	SEMPRA DIST	RELOCATE
⑮	WATER	12"	OMW	RELOCATE
⑯	WATER	12"	OMW	RELOCATE
⑰	TELECOM	UNK	PACBELL	RELOCATE
⑱	OIL	6"	CHEVRON (CEMC)	RELOCATE
⑲	OH POWER	12kV	PG&E DIST	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑳	WATER	16"	OMW	RELOCATE
㉑	TELECOM	UNK	PACBELL	RELOCATE
㉒	NATURAL GAS	4"	SEMPRA DIST	RELOCATE
㉓	OH POWER	115kV	PG&E TRANS	RELOCATE
㉔	OIL	8"	SHELL	RELOCATE
㉕	NATURAL GAS	16"	CHEVRON (CPL)	RELOCATE
㉖	OIL	12"	SHELL	RELOCATE
㉗	OH POWER	12kV	PG&E DIST	RELOCATE
㉘	OIL	12"	SHELL	RELOCATE



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D. SALGADO
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E. WINTERS
 DATE
10/28/2016

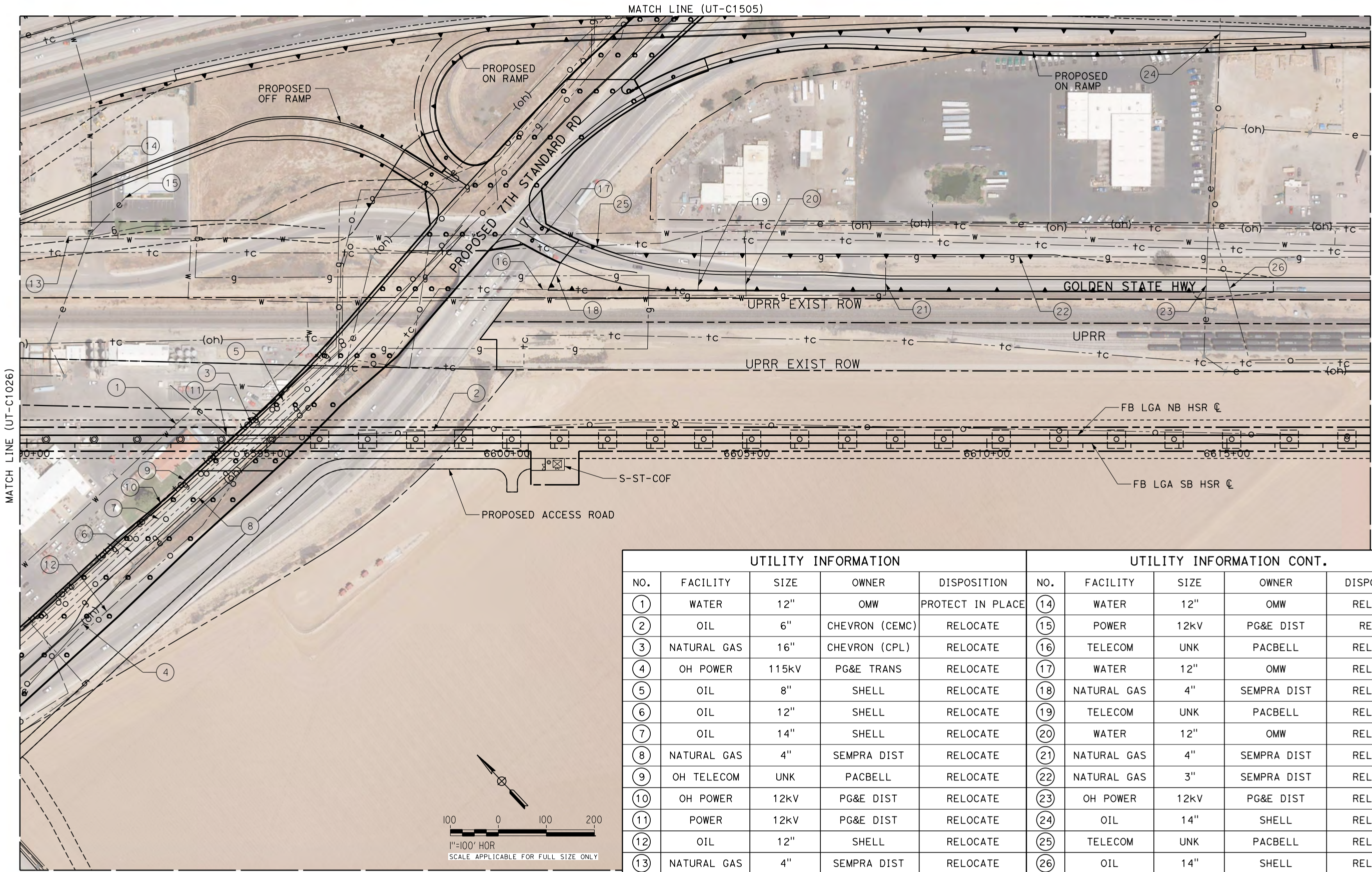
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PEPD DESIGN
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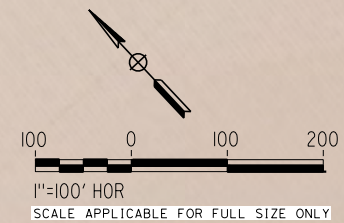
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6562+00 TO 6590+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1026
 SCALE
AS SHOWN
 SHEET NO.

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UTILITY INFORMATION					UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION	NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	12"	OMW	PROTECT IN PLACE	14	WATER	12"	OMW	RELOCATE
2	OIL	6"	CHEVRON (CEMC)	RELOCATE	15	POWER	12kV	PG&E DIST	REMOVE
3	NATURAL GAS	16"	CHEVRON (CPL)	RELOCATE	16	TELECOM	UNK	PACBELL	RELOCATE
4	OH POWER	115kV	PG&E TRANS	RELOCATE	17	WATER	12"	OMW	RELOCATE
5	OIL	8"	SHELL	RELOCATE	18	NATURAL GAS	4"	SEMPRA DIST	RELOCATE
6	OIL	12"	SHELL	RELOCATE	19	TELECOM	UNK	PACBELL	RELOCATE
7	OIL	14"	SHELL	RELOCATE	20	WATER	12"	OMW	RELOCATE
8	NATURAL GAS	4"	SEMPRA DIST	RELOCATE	21	NATURAL GAS	4"	SEMPRA DIST	RELOCATE
9	OH TELECOM	UNK	PACBELL	RELOCATE	22	NATURAL GAS	3"	SEMPRA DIST	RELOCATE
10	OH POWER	12kV	PG&E DIST	RELOCATE	23	OH POWER	12kV	PG&E DIST	RELOCATE
11	POWER	12kV	PG&E DIST	RELOCATE	24	OIL	14"	SHELL	RELOCATE
12	OIL	12"	SHELL	RELOCATE	25	TELECOM	UNK	PACBELL	RELOCATE
13	NATURAL GAS	4"	SEMPRA DIST	RELOCATE	26	OIL	14"	SHELL	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
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 DRAWN BY
T. SWEITZER
 CHECKED BY
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E. WINTERS
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10/28/2016

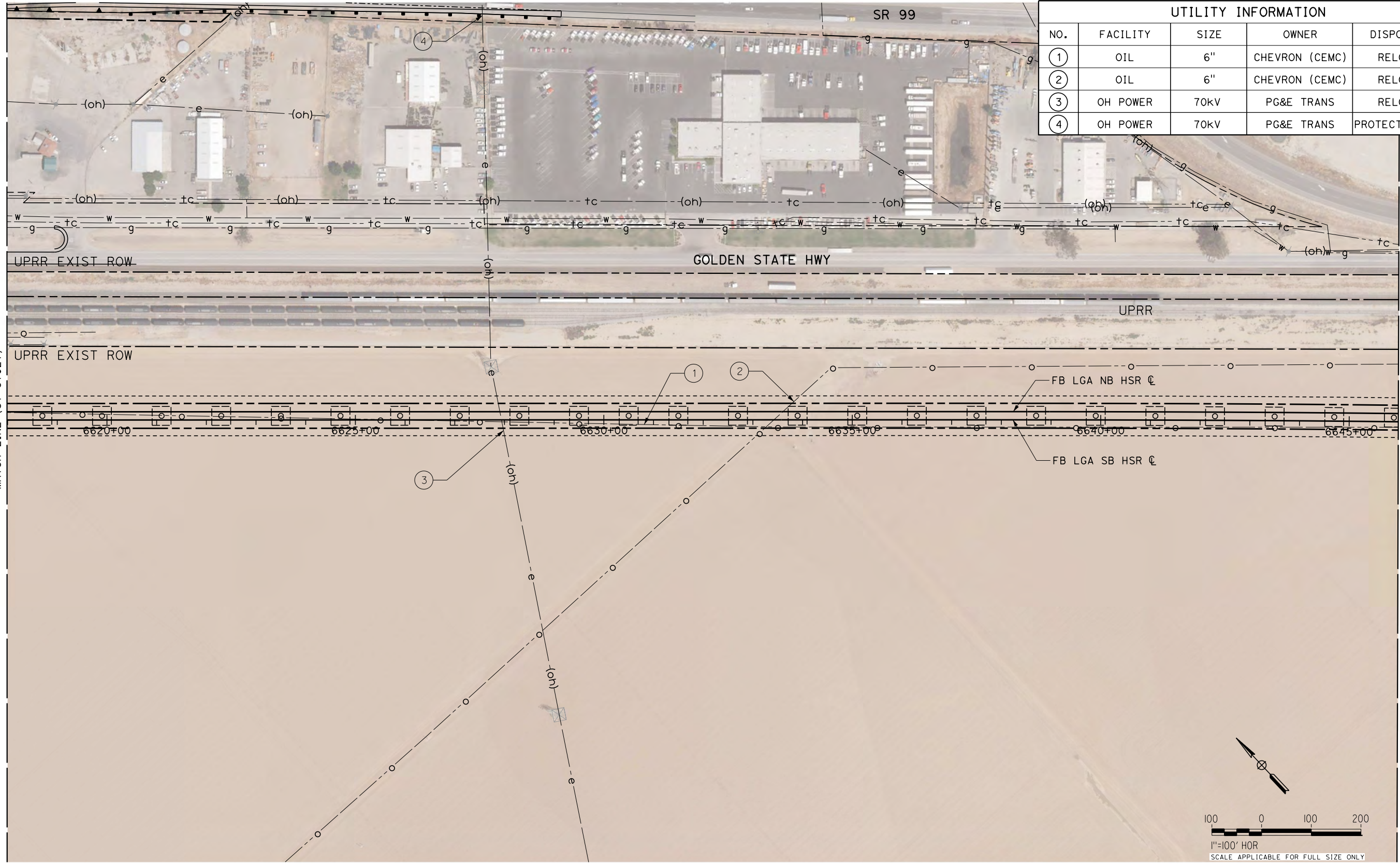
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6590+00 TO 6618+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1027
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UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	OIL	6"	CHEVRON (CEMC)	RELOCATE
②	OIL	6"	CHEVRON (CEMC)	RELOCATE
③	OH POWER	70KV	PG&E TRANS	RELOCATE
④	OH POWER	70KV	PG&E TRANS	PROTECT IN PLACE

MATCH LINE (UT-C1027)

MATCH LINE (UT-C1029)

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T. SWEITZER
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D. CONYERS
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 DATE
10/28/2016

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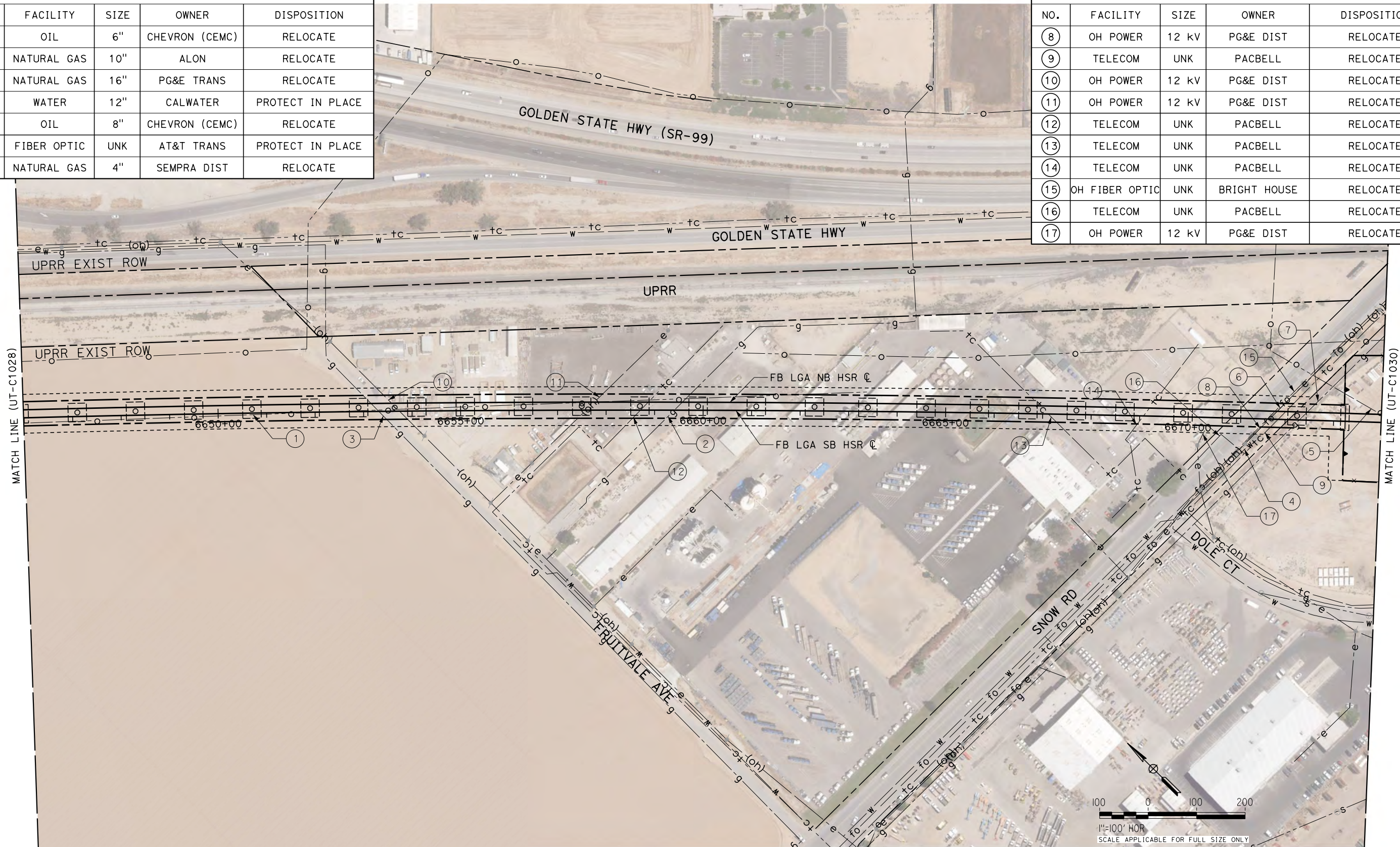


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6618+00 TO 6646+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1028
 SCALE
AS SHOWN
 SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	OIL	6"	CHEVRON (CEMC)	RELOCATE
②	NATURAL GAS	10"	ALON	RELOCATE
③	NATURAL GAS	16"	PG&E TRANS	RELOCATE
④	WATER	12"	CALWATER	PROTECT IN PLACE
⑤	OIL	8"	CHEVRON (CEMC)	RELOCATE
⑥	FIBER OPTIC	UNK	AT&T TRANS	PROTECT IN PLACE
⑦	NATURAL GAS	4"	SEMPRA DIST	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑧	OH POWER	12 KV	PG&E DIST	RELOCATE
⑨	TELECOM	UNK	PACBELL	RELOCATE
⑩	OH POWER	12 KV	PG&E DIST	RELOCATE
⑪	OH POWER	12 KV	PG&E DIST	RELOCATE
⑫	TELECOM	UNK	PACBELL	RELOCATE
⑬	TELECOM	UNK	PACBELL	RELOCATE
⑭	TELECOM	UNK	PACBELL	RELOCATE
⑮	OH FIBER OPTIC	UNK	BRIGHT HOUSE	RELOCATE
⑯	TELECOM	UNK	PACBELL	RELOCATE
⑰	OH POWER	12 KV	PG&E DIST	RELOCATE



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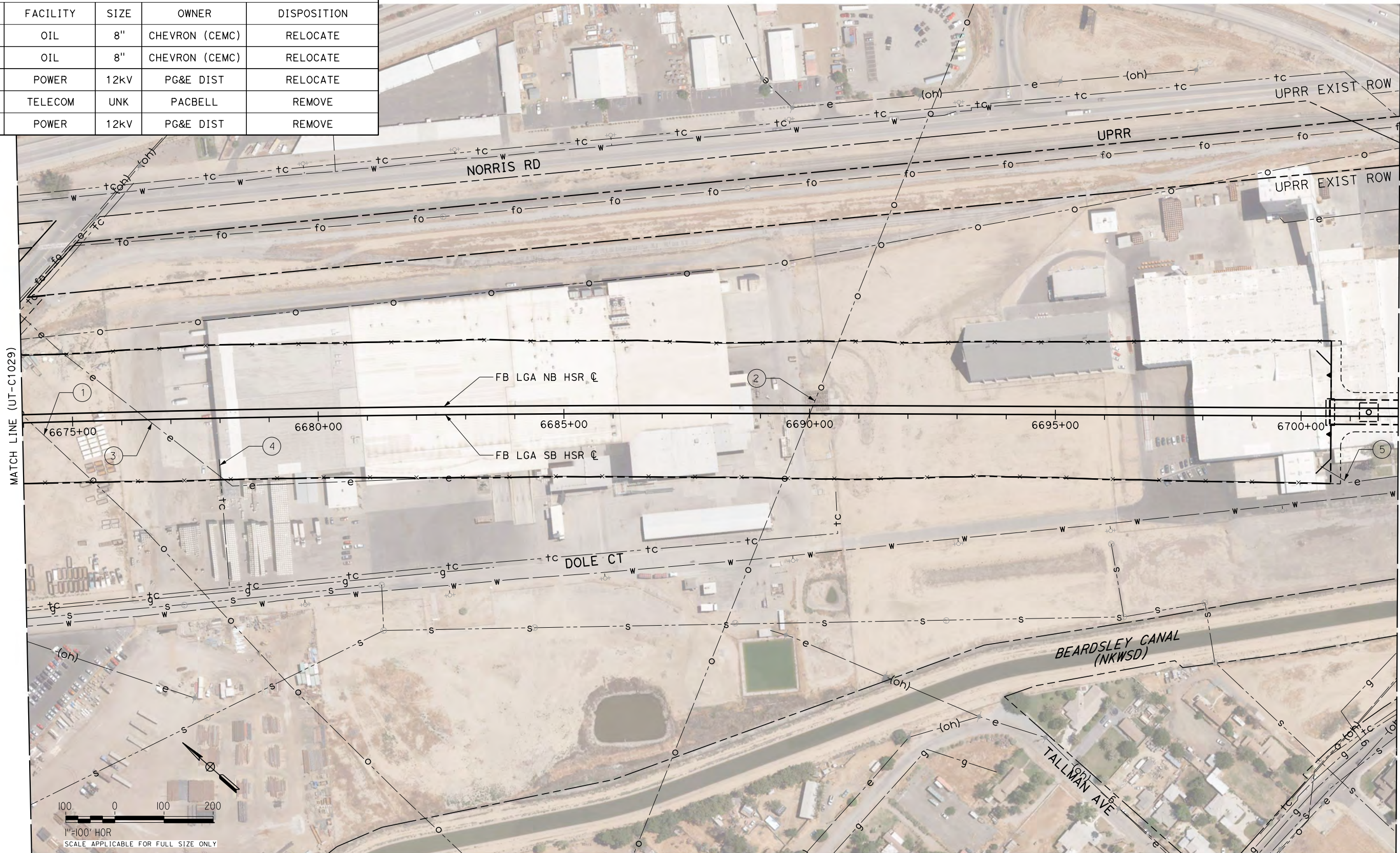
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6646+00 TO 6674+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1029
 SCALE
AS SHOWN
 SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	OIL	8"	CHEVRON (CEMC)	RELOCATE
②	OIL	8"	CHEVRON (CEMC)	RELOCATE
③	POWER	12KV	PG&E DIST	RELOCATE
④	TELECOM	UNK	PACBELL	REMOVE
⑤	POWER	12KV	PG&E DIST	REMOVE



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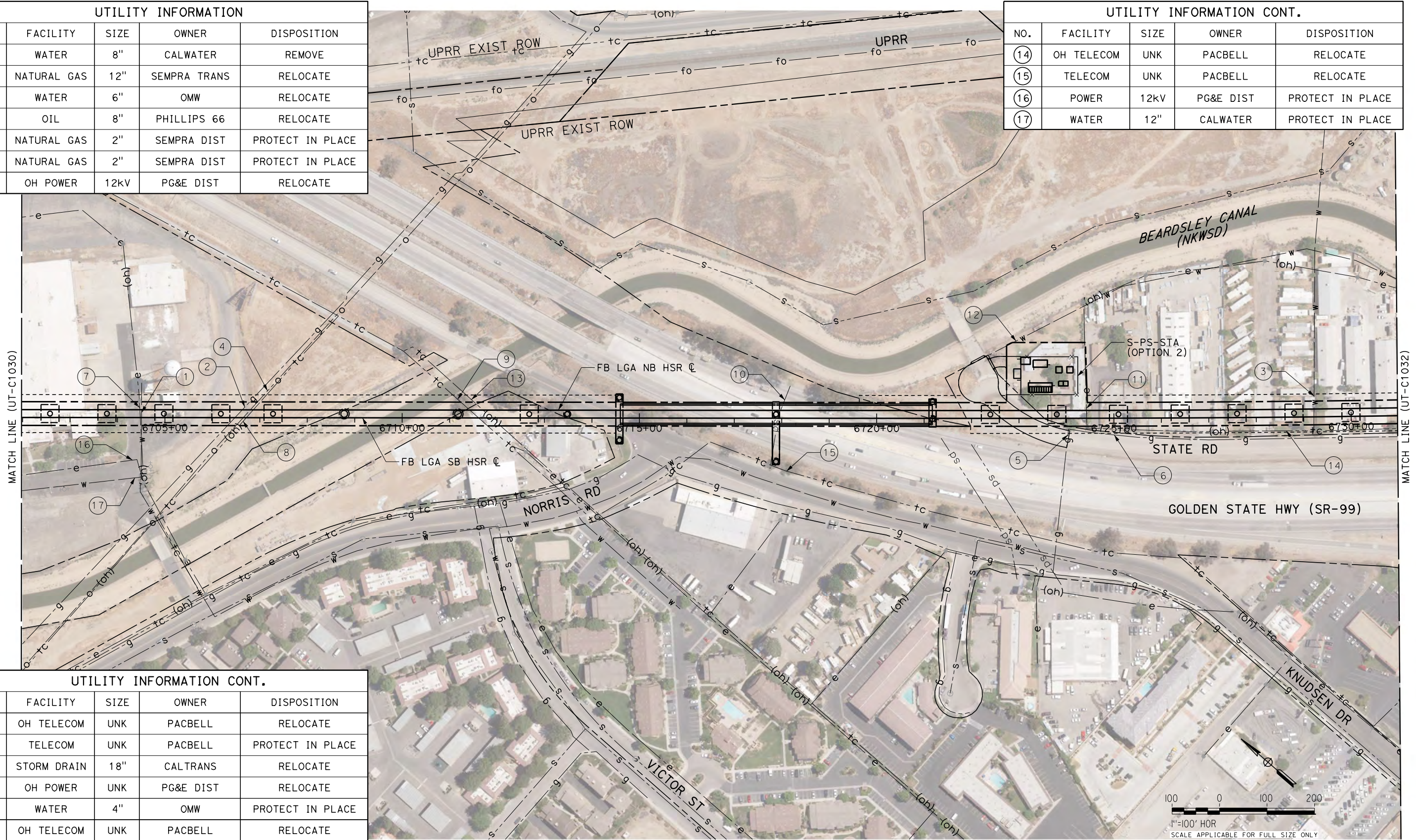


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6674+00 TO 6702+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1030
 SCALE
AS SHOWN
 SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	8"	CALWATER	REMOVE
②	NATURAL GAS	12"	SEMPRA TRANS	RELOCATE
③	WATER	6"	OMW	RELOCATE
④	OIL	8"	PHILLIPS 66	RELOCATE
⑤	NATURAL GAS	2"	SEMPRA DIST	PROTECT IN PLACE
⑥	NATURAL GAS	2"	SEMPRA DIST	PROTECT IN PLACE
⑦	OH POWER	12kV	PG&E DIST	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑭	OH TELECOM	UNK	PACBELL	RELOCATE
⑮	TELECOM	UNK	PACBELL	RELOCATE
⑯	POWER	12kV	PG&E DIST	PROTECT IN PLACE
⑰	WATER	12"	CALWATER	PROTECT IN PLACE



UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑧	OH TELECOM	UNK	PACBELL	RELOCATE
⑨	TELECOM	UNK	PACBELL	PROTECT IN PLACE
⑩	STORM DRAIN	18"	CALTRANS	RELOCATE
⑪	OH POWER	UNK	PG&E DIST	RELOCATE
⑫	WATER	4"	OMW	PROTECT IN PLACE
⑬	OH TELECOM	UNK	PACBELL	RELOCATE

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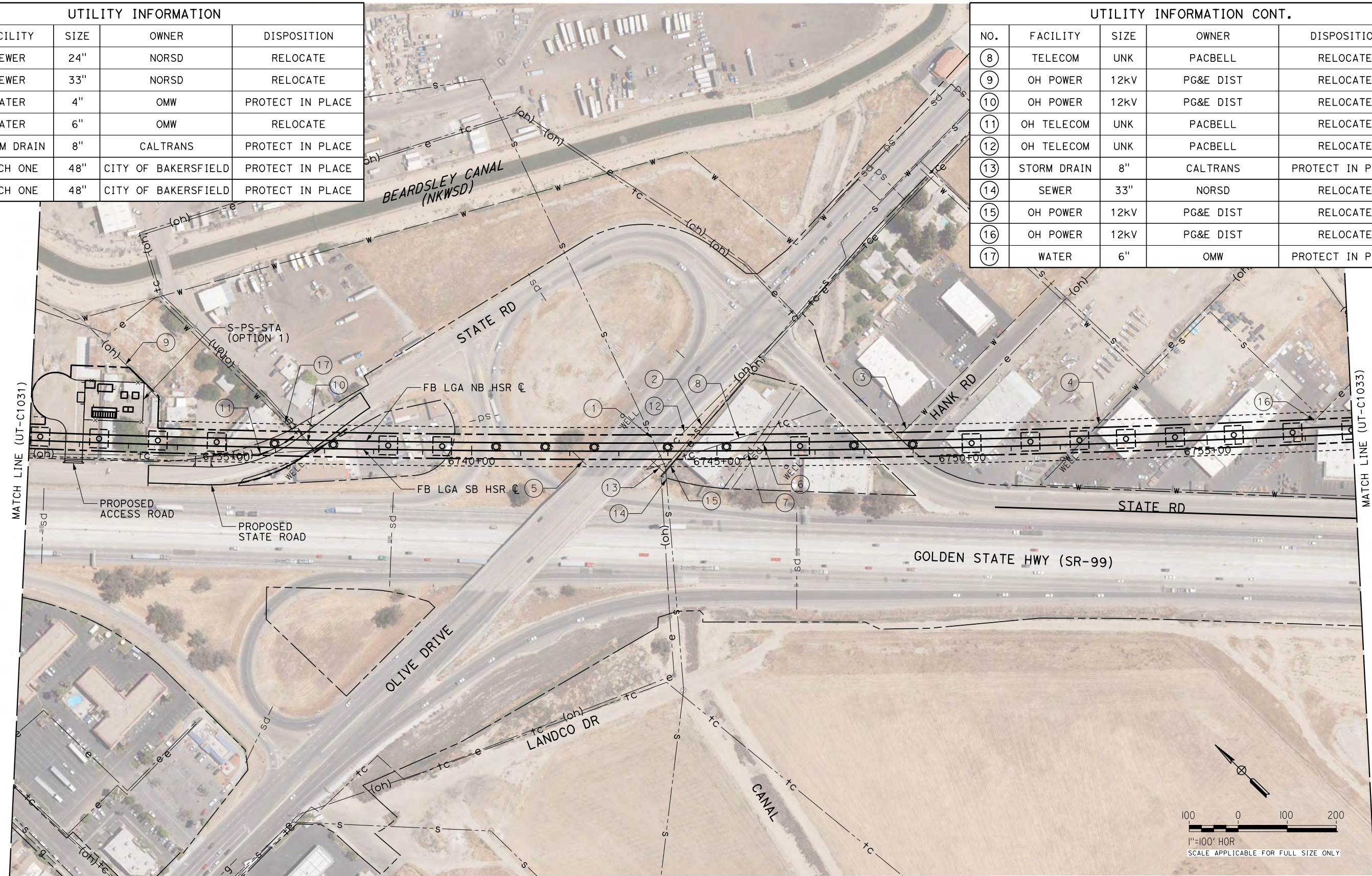
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6702+00 TO 6731+00

CONTRACT NO.
HSR13-44
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UT-C1031
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UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	SEWER	24"	NORS	RELOCATE
②	SEWER	33"	NORS	RELOCATE
③	WATER	4"	OMW	PROTECT IN PLACE
④	WATER	6"	OMW	RELOCATE
⑤	STORM DRAIN	8"	CALTRANS	PROTECT IN PLACE
⑥	DITCH ONE	48"	CITY OF BAKERSFIELD	PROTECT IN PLACE
⑦	DITCH ONE	48"	CITY OF BAKERSFIELD	PROTECT IN PLACE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑧	TELECOM	UNK	PACBELL	RELOCATE
⑨	OH POWER	12kV	PG&E DIST	RELOCATE
⑩	OH POWER	12kV	PG&E DIST	RELOCATE
⑪	OH TELECOM	UNK	PACBELL	RELOCATE
⑫	OH TELECOM	UNK	PACBELL	RELOCATE
⑬	STORM DRAIN	8"	CALTRANS	PROTECT IN PLACE
⑭	SEWER	33"	NORS	RELOCATE
⑮	OH POWER	12kV	PG&E DIST	RELOCATE
⑯	OH POWER	12kV	PG&E DIST	RELOCATE
⑰	WATER	6"	OMW	PROTECT IN PLACE



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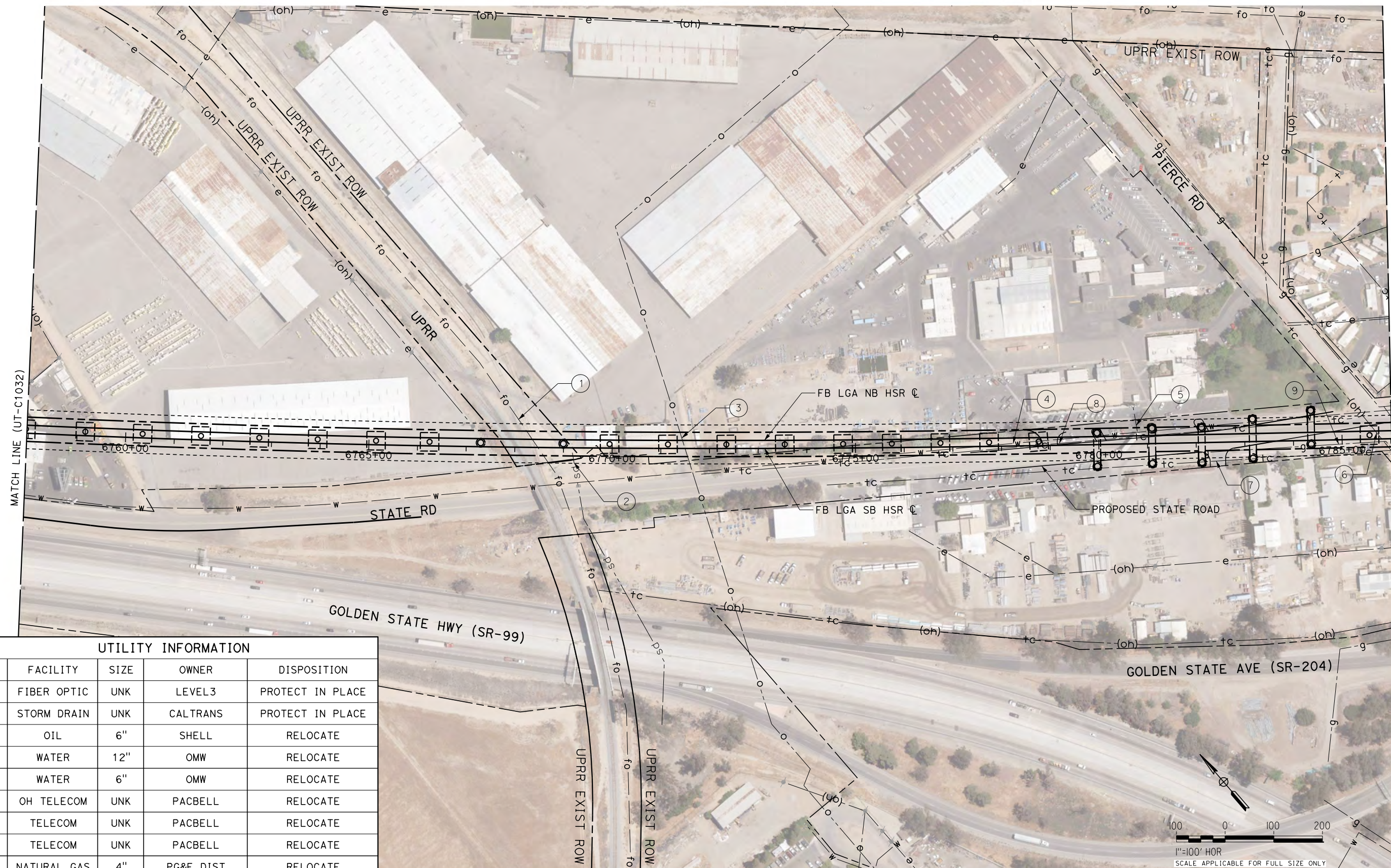
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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6731+00 TO 6758+00

CONTRACT NO.
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UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	FIBER OPTIC	UNK	LEVEL3	PROTECT IN PLACE
②	STORM DRAIN	UNK	CALTRANS	PROTECT IN PLACE
③	OIL	6"	SHELL	RELOCATE
④	WATER	12"	OMW	RELOCATE
⑤	WATER	6"	OMW	RELOCATE
⑥	OH TELECOM	UNK	PACBELL	RELOCATE
⑦	TELECOM	UNK	PACBELL	RELOCATE
⑧	TELECOM	UNK	PACBELL	RELOCATE
⑨	NATURAL GAS	4"	PG&E DIST	RELOCATE

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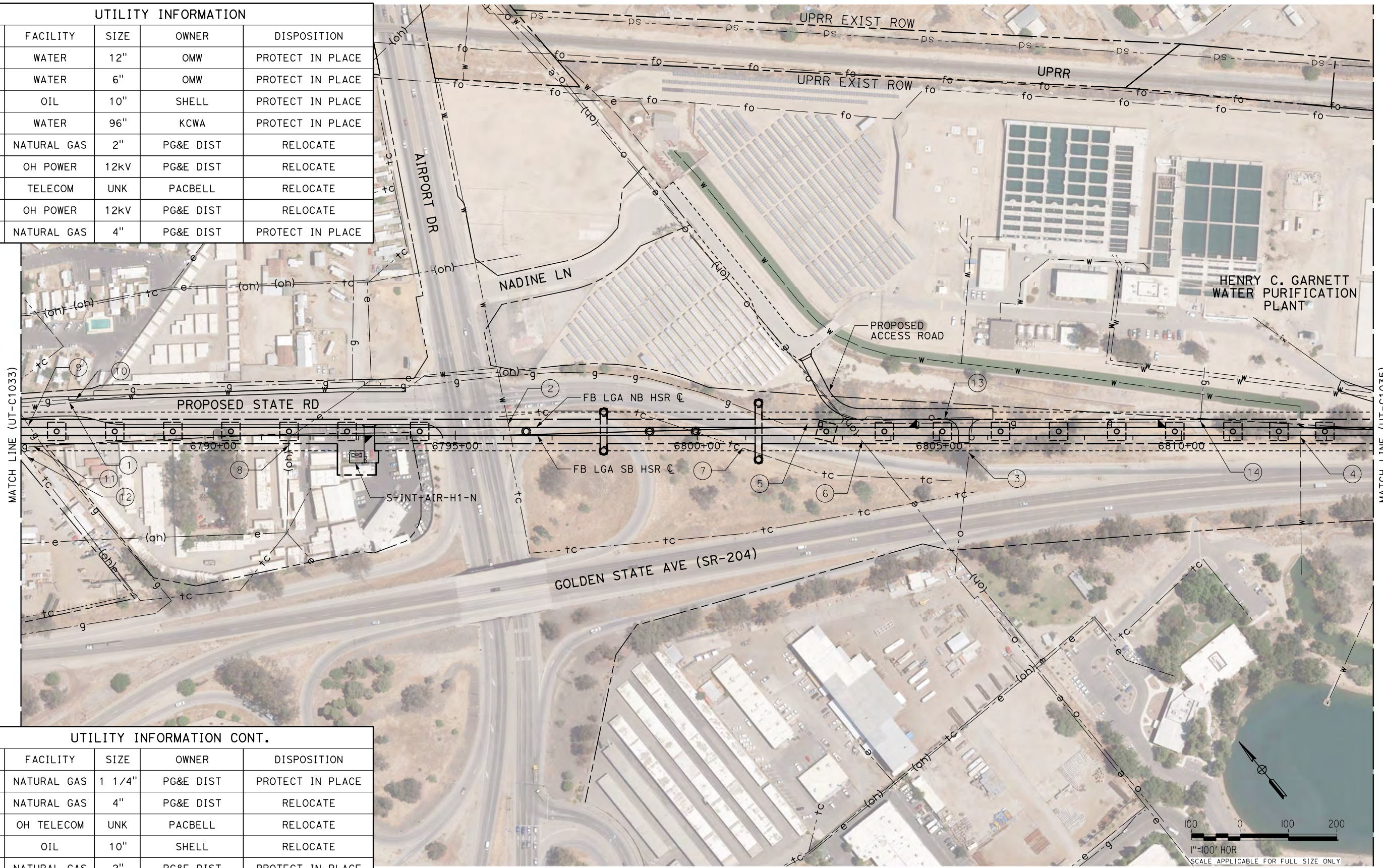
**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6758+00 TO 6786+00

CONTRACT NO.
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DRAWING NO.
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SCALE
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UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	12"	OMW	PROTECT IN PLACE
②	WATER	6"	OMW	PROTECT IN PLACE
③	OIL	10"	SHELL	PROTECT IN PLACE
④	WATER	96"	KCWA	PROTECT IN PLACE
⑤	NATURAL GAS	2"	PG&E DIST	RELOCATE
⑥	OH POWER	12KV	PG&E DIST	RELOCATE
⑦	TELECOM	UNK	PACBELL	RELOCATE
⑧	OH POWER	12KV	PG&E DIST	RELOCATE
⑨	NATURAL GAS	4"	PG&E DIST	PROTECT IN PLACE

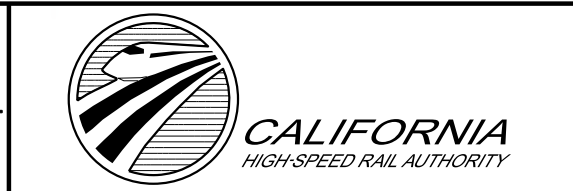
UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑩	NATURAL GAS	1 1/4"	PG&E DIST	PROTECT IN PLACE
⑪	NATURAL GAS	4"	PG&E DIST	RELOCATE
⑫	OH TELECOM	UNK	PACBELL	RELOCATE
⑬	OIL	10"	SHELL	RELOCATE
⑭	NATURAL GAS	2"	PG&E DIST	PROTECT IN PLACE



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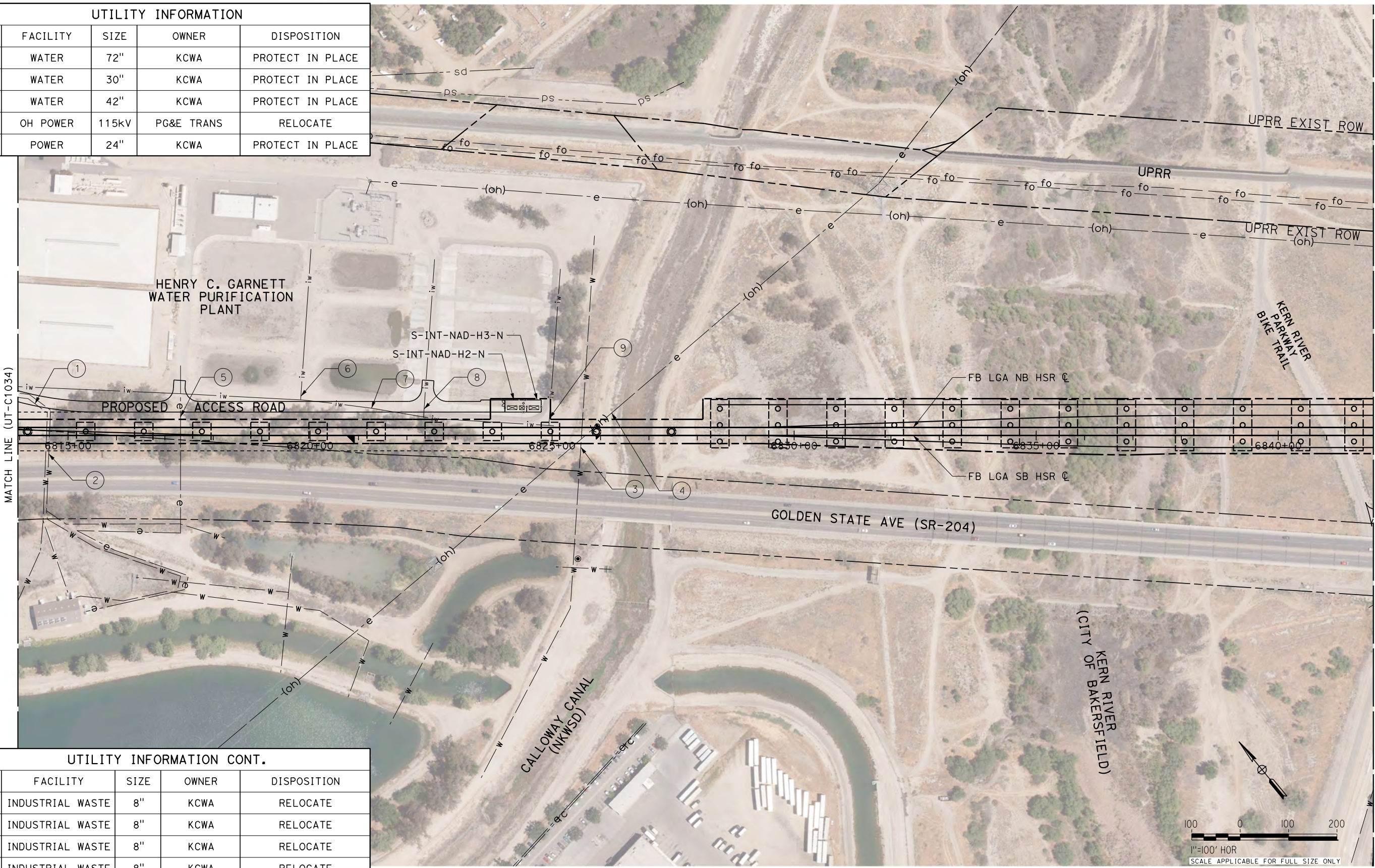


**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6786+00 TO 6814+00

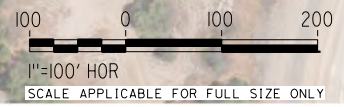
CONTRACT NO.
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UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	72"	KCWA	PROTECT IN PLACE
②	WATER	30"	KCWA	PROTECT IN PLACE
③	WATER	42"	KCWA	PROTECT IN PLACE
④	OH POWER	115KV	PG&E TRANS	RELOCATE
⑤	POWER	24"	KCWA	PROTECT IN PLACE



UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑥	INDUSTRIAL WASTE	8"	KCWA	RELOCATE
⑦	INDUSTRIAL WASTE	8"	KCWA	RELOCATE
⑧	INDUSTRIAL WASTE	8"	KCWA	RELOCATE
⑨	INDUSTRIAL WASTE	8"	KCWA	RELOCATE



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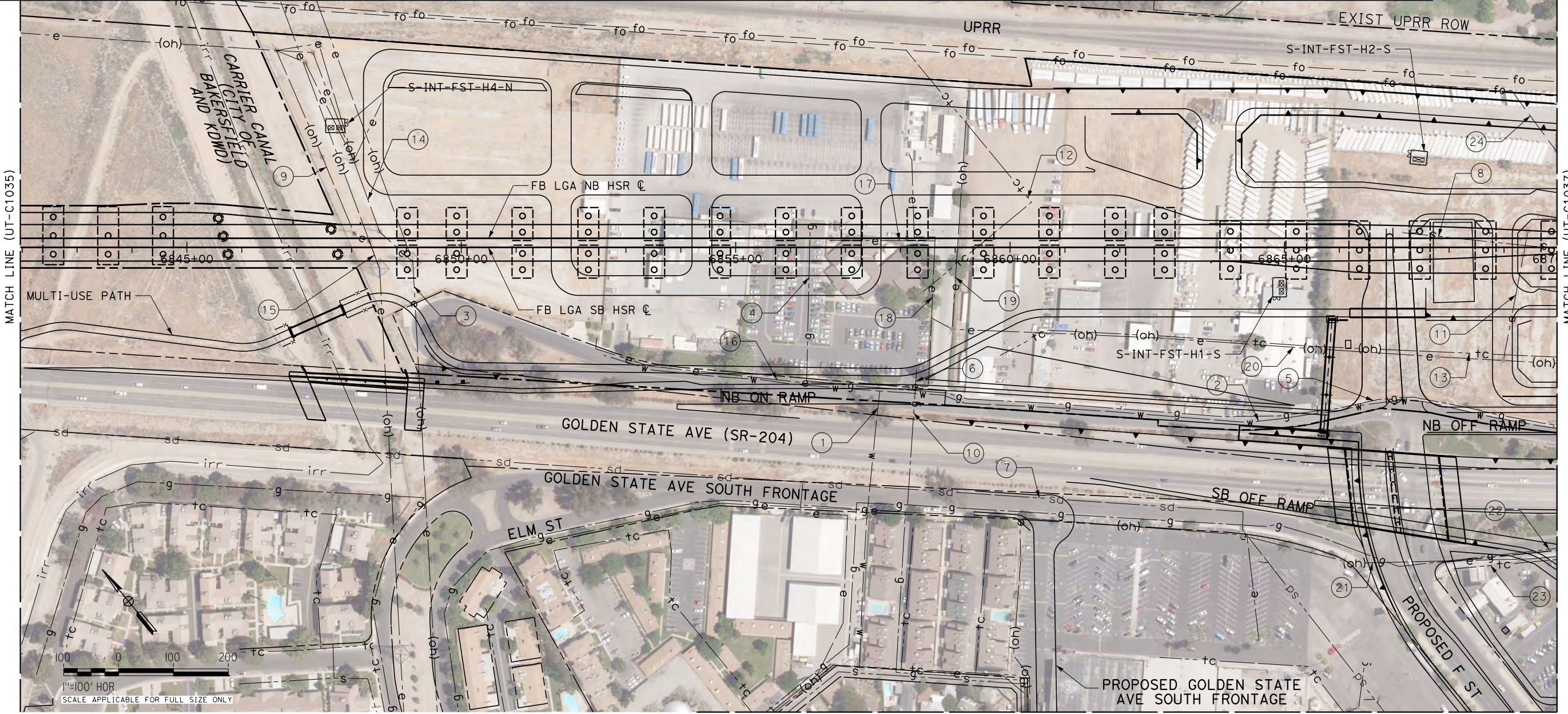
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**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6814+00 TO 6842+00

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C1035
SCALE
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SHEET NO.

UTILITY INFORMATION					UTILITY INFORMATION CONT.					UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION	NO.	FACILITY	SIZE	OWNER	DISPOSITION	NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	12"	CALWATER	PROTECT IN PLACE	9	OH POWER	70kV	PG&E TRANS	RELOCATE	17	POWER	12kV	PG&E DIST	REMOVE
2	WATER	8"	CALWATER	RELOCATE	10	NATURAL GAS	12"	PG&E TRANS	PROTECT IN PLACE	18	POWER	12kV	PG&E DIST	REMOVE
3	OH POWER	115kV	PG&E TRANS	RELOCATE	11	OH POWER	12kV	PG&E DIST	REMOVE	19	OH POWER	12kV	PG&E DIST	REMOVE
4	NATURAL GAS	1"	PG&E DIST	REMOVE	12	TELECOM	UNK	PACBELL	REMOVE	20	OH POWER	12kV	PG&E DIST	REMOVE
5	NATURAL GAS	3"	PG&E DIST	RELOCATE	13	OH TELECOM	UNK	PACBELL	REMOVE	21	OH POWER	12kV	PG&E DIST	PROTECT IN PLACE
6	NATURAL GAS	12"	PG&E TRANS	REMOVE	14	OH POWER	70kV	PG&E TRANS	RELOCATE	22	NATURAL GAS	12"	PG&E TRANS	PROTECT IN PLACE
7	STORM DRAIN	27"	CITY OF BAKERSFIELD	PROTECT IN PLACE	15	OH POWER	115kV	PG&E TRANS	RELOCATE	23	TELECOM	UNK	PACBELL	PROTECT IN PLACE
8	SEWER	6"	CITY OF BAKERSFIELD	REMOVE	16	POWER	12kV	PG&E DIST	REMOVE	24	FIBER OPTIC	UNK	AT&T TRANS	RELOCATE



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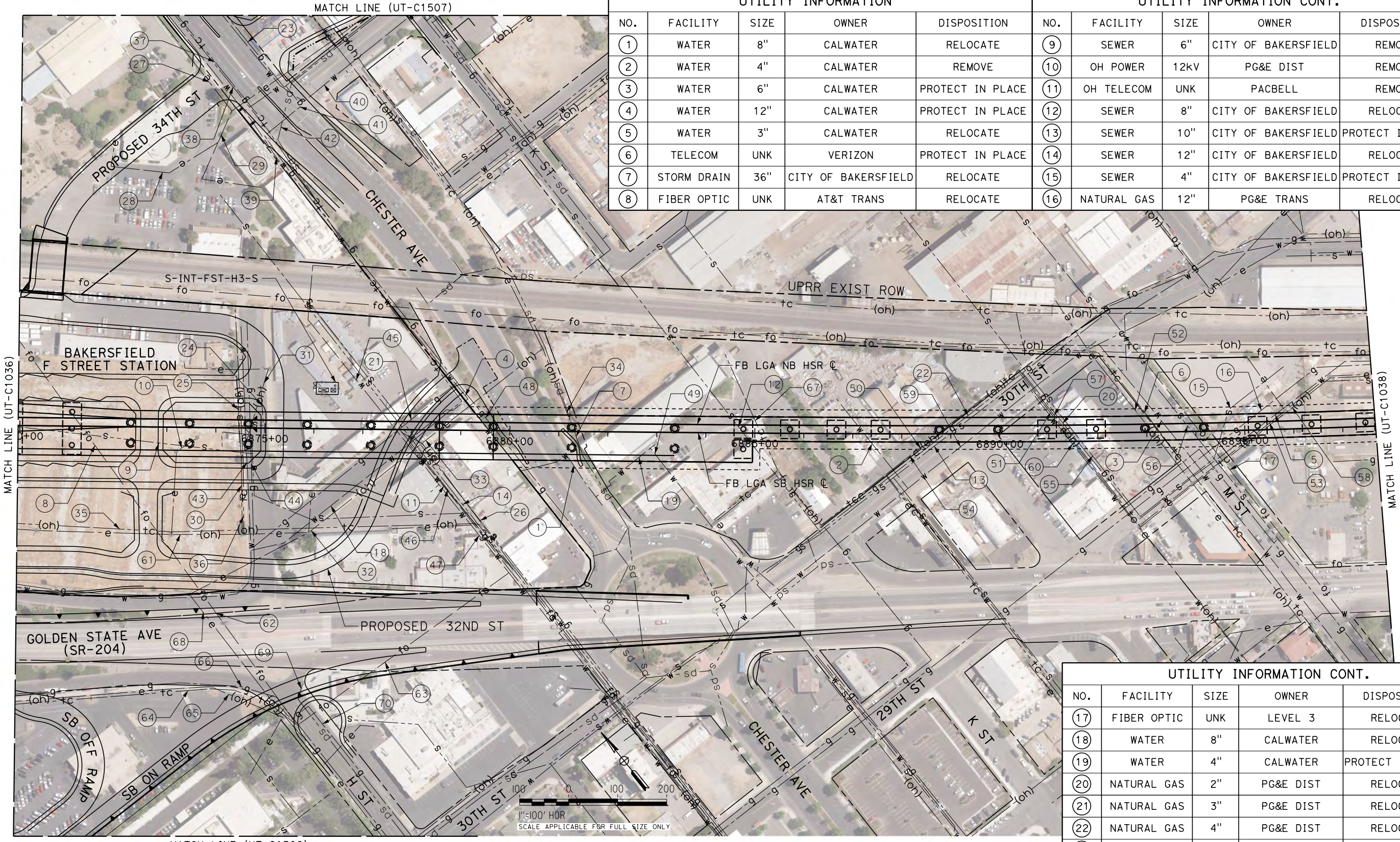


CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6842+00 TO 6870+00

CONTRACT NO.
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UTILITY INFORMATION					UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION	NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	WATER	8"	CALWATER	RELOCATE	9	SEWER	6"	CITY OF BAKERSFIELD	REMOVE
2	WATER	4"	CALWATER	REMOVE	10	OH POWER	12KV	PG&E DIST	REMOVE
3	WATER	6"	CALWATER	PROTECT IN PLACE	11	OH TELECOM	UNK	PACBELL	REMOVE
4	WATER	12"	CALWATER	PROTECT IN PLACE	12	SEWER	8"	CITY OF BAKERSFIELD	RELOCATE
5	WATER	3"	CALWATER	RELOCATE	13	SEWER	10"	CITY OF BAKERSFIELD	PROTECT IN PLACE
6	TELECOM	UNK	VERIZON	PROTECT IN PLACE	14	SEWER	12"	CITY OF BAKERSFIELD	RELOCATE
7	STORM DRAIN	36"	CITY OF BAKERSFIELD	RELOCATE	15	SEWER	4"	CITY OF BAKERSFIELD	PROTECT IN PLACE
8	FIBER OPTIC	UNK	AT&T TRANS	RELOCATE	16	NATURAL GAS	12"	PG&E TRANS	RELOCATE



UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
17	FIBER OPTIC	UNK	LEVEL 3	RELOCATE
18	WATER	8"	CALWATER	RELOCATE
19	WATER	4"	CALWATER	PROTECT IN PLACE
20	NATURAL GAS	2"	PG&E DIST	RELOCATE
21	NATURAL GAS	3"	PG&E DIST	RELOCATE
22	NATURAL GAS	4"	PG&E DIST	RELOCATE
23	NATURAL GAS	10"	PG&E DIST	PROTECT IN PLACE

NOTE: FOR CONTINUATION OF UTILITY INFORMATION SEE DWG UT-C1506.

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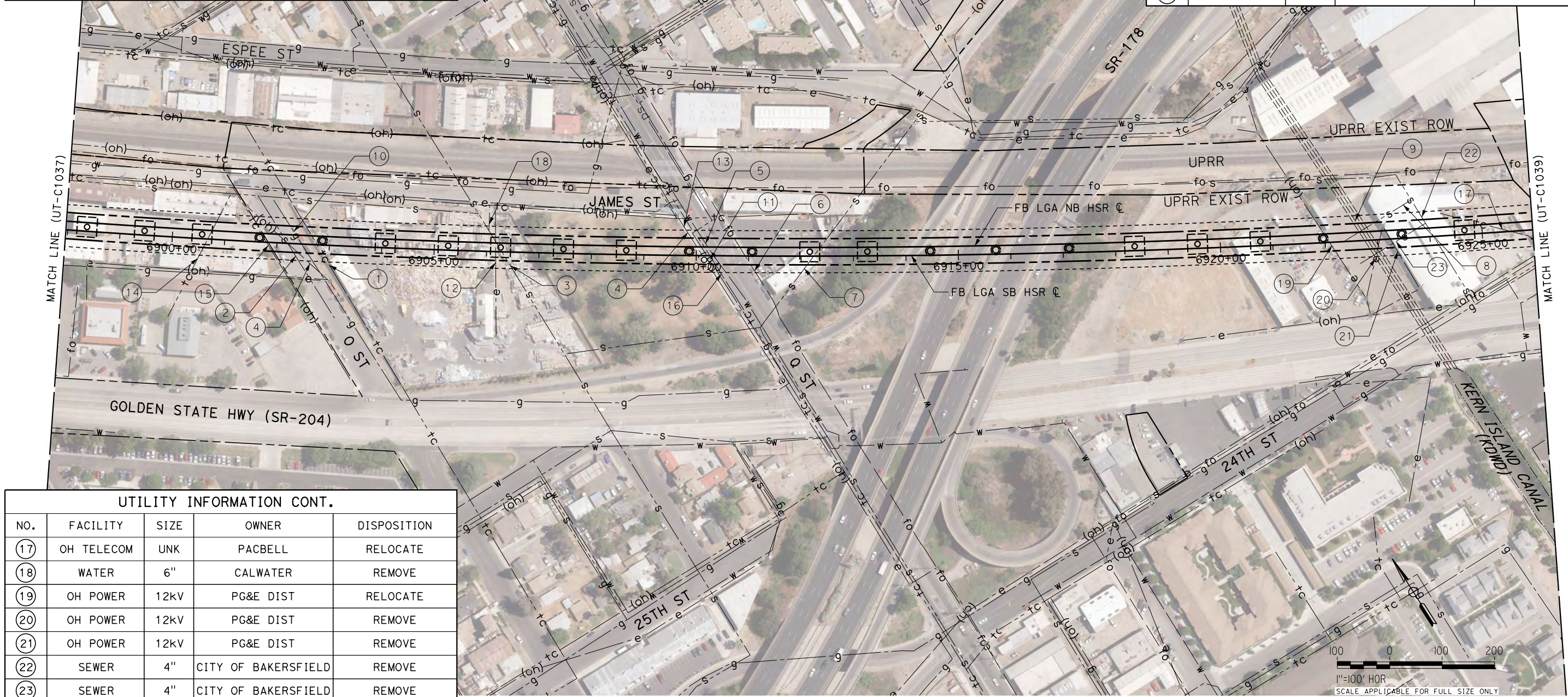


**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6870+00 TO 6898+00

CONTRACT NO.
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UT-C1037
 SCALE
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UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	TELECOM	UNK	VERIZON	RELOCATE
②	SEWER	8"	CITY OF BAKERSFIELD	PROTECT IN PLACE
③	SEWER	12"	CITY OF BAKERSFIELD	RELOCATE
④	OH POWER	12KV	PG&E DIST	RELOCATE
⑤	WATER	6"	CALWATER	PROTECT IN PLACE
⑥	FIBER OPTIC	UNK	CVIN	PROTECT IN PLACE
⑦	SEWER	27"	CITY OF BAKERSFIELD	RELOCATE
⑧	SEWER	4"	CITY OF BAKERSFIELD	REMOVE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑨	IRRIGATION	2-66"	KDWD	PROTECT-IN-PLACE
⑩	NATURAL GAS	2"	PG&E DIST	PROTECT IN PLACE
⑪	NATURAL GAS	4"	PG&E DIST	RELOCATE
⑫	POWER	12KV	PG&E DIST	RELOCATE
⑬	OH POWER	21KV	PG&E DIST	RELOCATE
⑭	OH TELECOM	UNK	PACBELL	RELOCATE
⑮	OH TELECOM	UNK	PACBELL	RELOCATE
⑯	OH TELECOM	UNK	PACBELL	RELOCATE



UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑰	OH TELECOM	UNK	PACBELL	RELOCATE
⑱	WATER	6"	CALWATER	REMOVE
⑲	OH POWER	12KV	PG&E DIST	RELOCATE
⑳	OH POWER	12KV	PG&E DIST	REMOVE
㉑	OH POWER	12KV	PG&E DIST	REMOVE
㉒	SEWER	4"	CITY OF BAKERSFIELD	REMOVE
㉓	SEWER	4"	CITY OF BAKERSFIELD	REMOVE

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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6898+00 TO 6926+00

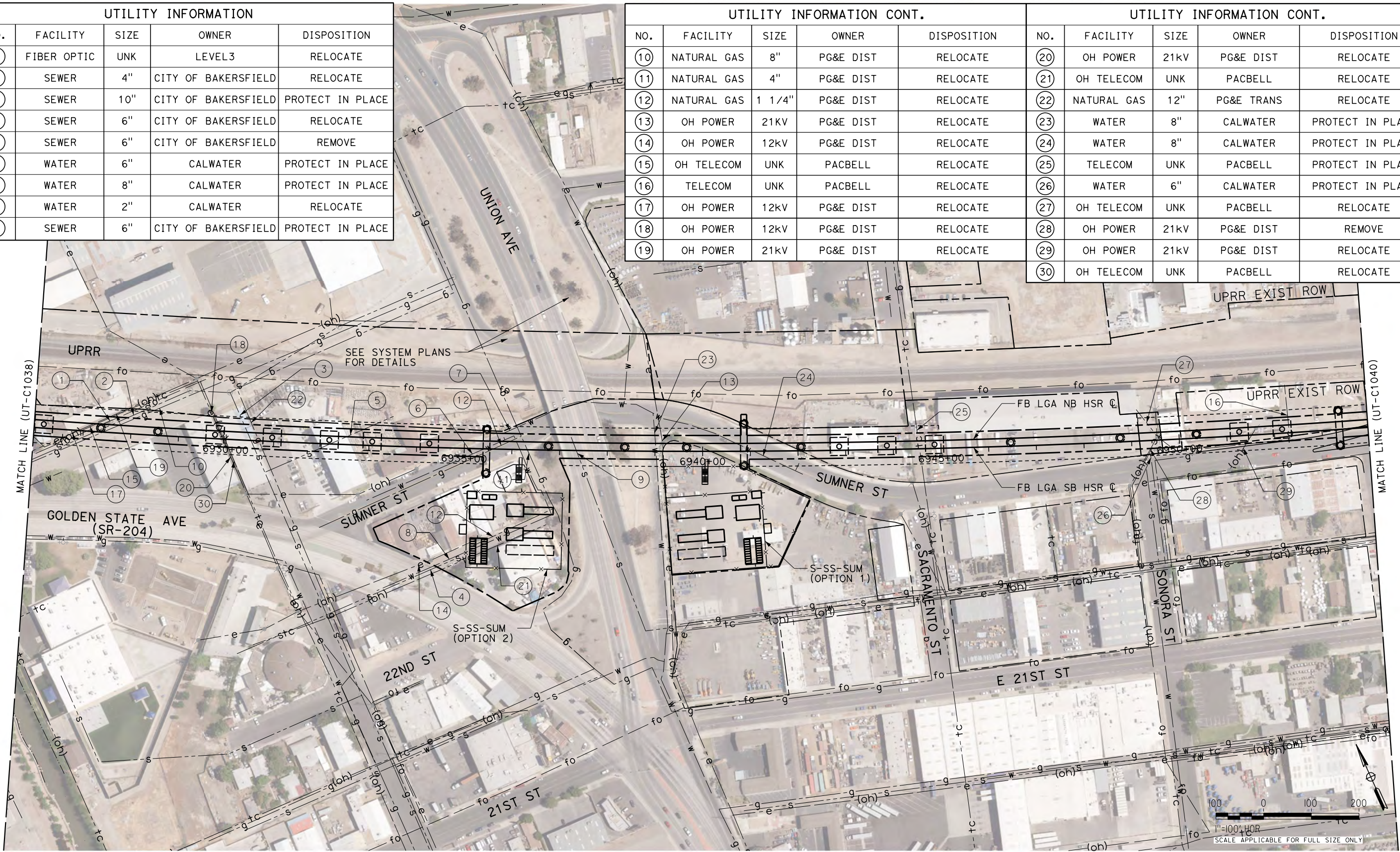
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UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	FIBER OPTIC	UNK	LEVEL3	RELOCATE
②	SEWER	4"	CITY OF BAKERSFIELD	RELOCATE
③	SEWER	10"	CITY OF BAKERSFIELD	PROTECT IN PLACE
④	SEWER	6"	CITY OF BAKERSFIELD	RELOCATE
⑤	SEWER	6"	CITY OF BAKERSFIELD	REMOVE
⑥	WATER	6"	CALWATER	PROTECT IN PLACE
⑦	WATER	8"	CALWATER	PROTECT IN PLACE
⑧	WATER	2"	CALWATER	RELOCATE
⑨	SEWER	6"	CITY OF BAKERSFIELD	PROTECT IN PLACE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑩	NATURAL GAS	8"	PG&E DIST	RELOCATE
⑪	NATURAL GAS	4"	PG&E DIST	RELOCATE
⑫	NATURAL GAS	1 1/4"	PG&E DIST	RELOCATE
⑬	OH POWER	21KV	PG&E DIST	RELOCATE
⑭	OH POWER	12KV	PG&E DIST	RELOCATE
⑮	OH TELECOM	UNK	PACBELL	RELOCATE
⑯	TELECOM	UNK	PACBELL	RELOCATE
⑰	OH POWER	12KV	PG&E DIST	RELOCATE
⑱	OH POWER	12KV	PG&E DIST	RELOCATE
⑲	OH POWER	21KV	PG&E DIST	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑳	OH POWER	21KV	PG&E DIST	RELOCATE
㉑	OH TELECOM	UNK	PACBELL	RELOCATE
㉒	NATURAL GAS	12"	PG&E TRANS	RELOCATE
㉓	WATER	8"	CALWATER	PROTECT IN PLACE
㉔	WATER	8"	CALWATER	PROTECT IN PLACE
㉕	TELECOM	UNK	PACBELL	PROTECT IN PLACE
㉖	WATER	6"	CALWATER	PROTECT IN PLACE
㉗	OH TELECOM	UNK	PACBELL	RELOCATE
㉘	OH POWER	21KV	PG&E DIST	REMOVE
㉙	OH POWER	21KV	PG&E DIST	RELOCATE
㉚	OH TELECOM	UNK	PACBELL	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
 DRAWN BY
T. SWEITZER
 CHECKED BY
D. CONYERS
 IN CHARGE
E. WINTERS
 DATE
10/28/2016

**RECORD SET
 PECD DESIGN
 SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 6926+00 TO 6954+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1039
 SCALE
AS SHOWN
 SHEET NO.

Projects\701206_N_BFSS\00_CADD\Sheet Files\Utilities\BFSSA-UT-C1040.dgn \$PLTDRVS\$ \$PENTBL.S\$ 10/11/2016 1:51:38 PM

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	12"	CALWATER	PROTECT IN PLACE
②	WATER	6"	CALWATER	RELOCATE
③	WATER	2"	CALWATER	REMOVE
④	FIBER OPTIC	UNK	LEVEL3	RELOCATE
⑤	WATER	10"	CALWATER	PROTECT IN PLACE
⑥	SEWER	12"	CITY OF BAKERSFIELD	PROTECT IN PLACE
⑦	NATURAL GAS	1 1/4"	PG&E DIST	PROTECT IN PLACE
⑧	NATURAL GAS	4"	PG&E DIST	PROTECT IN PLACE
⑨	NATURAL GAS	2"	PG&E DIST	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑩	OH POWER	UNK	PG&E DIST	RELOCATE
⑪	OH POWER	21KV	PG&E DIST	RELOCATE
⑫	TELECOM	UNK	PACBELL	RELOCATE
⑬	OH TELECOM	UNK	PACBELL	RELOCATE
⑭	TELECOM	UNK	PACBELL	PROTECT IN PLACE
⑮	OH POWER	21KV	PG&E DIST	RELOCATE
⑯	TELECOM	UNK	PACBELL	RELOCATE
⑰	SEWER	12"	CITY OF BAKERSFIELD	PROTECT IN PLACE
⑱	OH FIBER OPTIC	UNK	SUNESYS	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
DRAWN BY
T. SWEITZER
CHECKED BY
D. CONYERS
IN CHARGE
E. WINTERS
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**

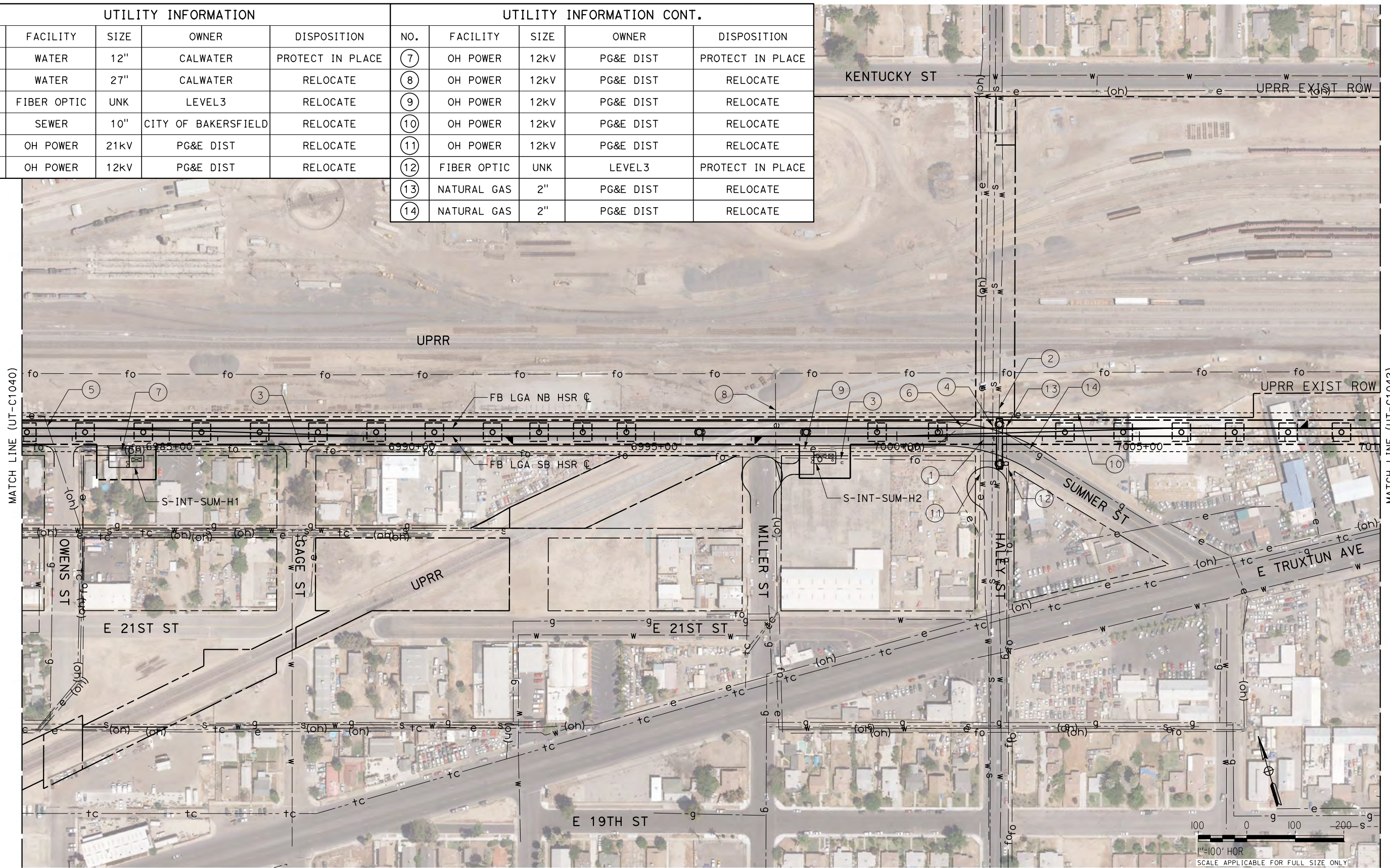


**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6954+00 TO 6982+00

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C1040
SCALE
AS SHOWN
SHEET NO.

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UTILITY INFORMATION					UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION	NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	12"	CALWATER	PROTECT IN PLACE	⑦	OH POWER	12KV	PG&E DIST	PROTECT IN PLACE
②	WATER	27"	CALWATER	RELOCATE	⑧	OH POWER	12KV	PG&E DIST	RELOCATE
③	FIBER OPTIC	UNK	LEVEL3	RELOCATE	⑨	OH POWER	12KV	PG&E DIST	RELOCATE
④	SEWER	10"	CITY OF BAKERSFIELD	RELOCATE	⑩	OH POWER	12KV	PG&E DIST	RELOCATE
⑤	OH POWER	21KV	PG&E DIST	RELOCATE	⑪	OH POWER	12KV	PG&E DIST	RELOCATE
⑥	OH POWER	12KV	PG&E DIST	RELOCATE	⑫	FIBER OPTIC	UNK	LEVEL3	PROTECT IN PLACE
					⑬	NATURAL GAS	2"	PG&E DIST	RELOCATE
					⑭	NATURAL GAS	2"	PG&E DIST	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
DRAWN BY
T. SWEITZER
CHECKED BY
D. CONYERS
IN CHARGE
E. WINTERS
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**



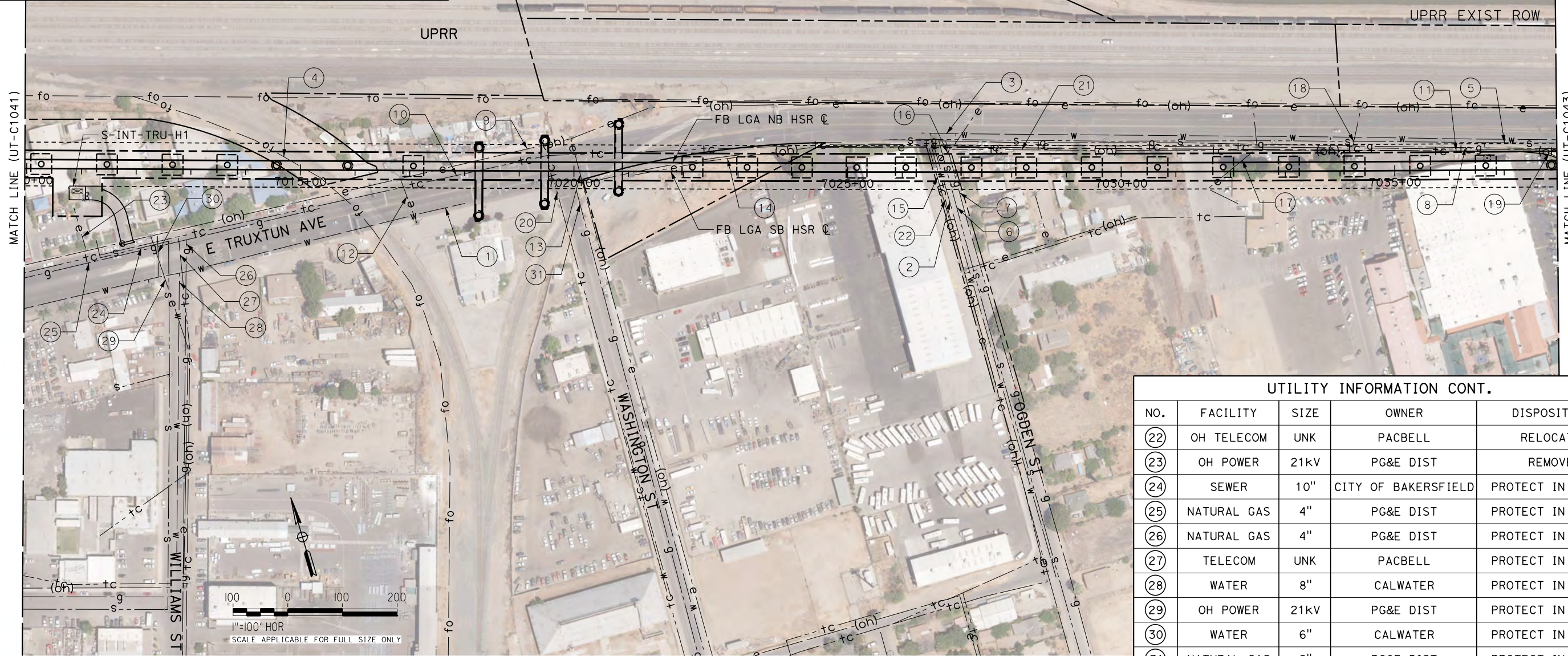
**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 6982+00 TO 7010+00

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C1041
SCALE
AS SHOWN
SHEET NO.

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UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	8"	CALWATER	PROTECT IN PLACE
②	WATER	6"	CALWATER	PROTECT IN PLACE
③	WATER	8"	CALWATER	PROTECT IN PLACE
④	FIBER OPTIC	UNK	LEVEL3	PROTECT IN PLACE
⑤	SEWER	8"	KSA	RELOCATE
⑥	SEWER	8"	KSA	RELOCATE
⑦	NATURAL GAS	3"	PG&E DIST	RELOCATE
⑧	NATURAL GAS	4"	PG&E DIST	RELOCATE
⑨	OH POWER	21KV	PG&E DIST	RELOCATE
⑩	TELECOM	UNK	PACBELL	PROTECT IN PLACE
⑪	OH TELECOM	UNK	PACBELL	RELOCATE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑫	OH POWER	21KV	PG&E DIST	RELOCATE
⑬	OH POWER	21KV	PG&E DIST	RELOCATE
⑭	OH POWER	21KV	PG&E DIST	RELOCATE
⑮	OH POWER	21KV	PG&E DIST	RELOCATE
⑯	OH POWER	21KV	PG&E DIST	RELOCATE
⑰	OH POWER	21KV	PG&E DIST	RELOCATE
⑱	OH POWER	21KV	PG&E DIST	PROTECT IN PLACE
⑲	OH POWER	21KV	PG&E DIST	RELOCATE
⑳	TELECOM	UNK	PACBELL	PROTECT IN PLACE
㉑	TELECOM	UNK	PACBELL	RELOCATE



UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑳	OH TELECOM	UNK	PACBELL	RELOCATE
㉑	OH POWER	21KV	PG&E DIST	REMOVE
㉒	SEWER	10"	CITY OF BAKERSFIELD	PROTECT IN PLACE
㉓	NATURAL GAS	4"	PG&E DIST	PROTECT IN PLACE
㉔	NATURAL GAS	4"	PG&E DIST	PROTECT IN PLACE
㉕	TELECOM	UNK	PACBELL	PROTECT IN PLACE
㉖	WATER	8"	CALWATER	PROTECT IN PLACE
㉗	OH POWER	21KV	PG&E DIST	PROTECT IN PLACE
㉘	WATER	6"	CALWATER	PROTECT IN PLACE
㉙	NATURAL GAS	2"	PG&E DIST	PROTECT IN PLACE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
 DRAWN BY
T. SWEITZER
 CHECKED BY
D. CONYERS
 IN CHARGE
E. WINTERS
 DATE
10/28/2016

**RECORD SET
 PEPP DESIGN
 SUBMISSION**



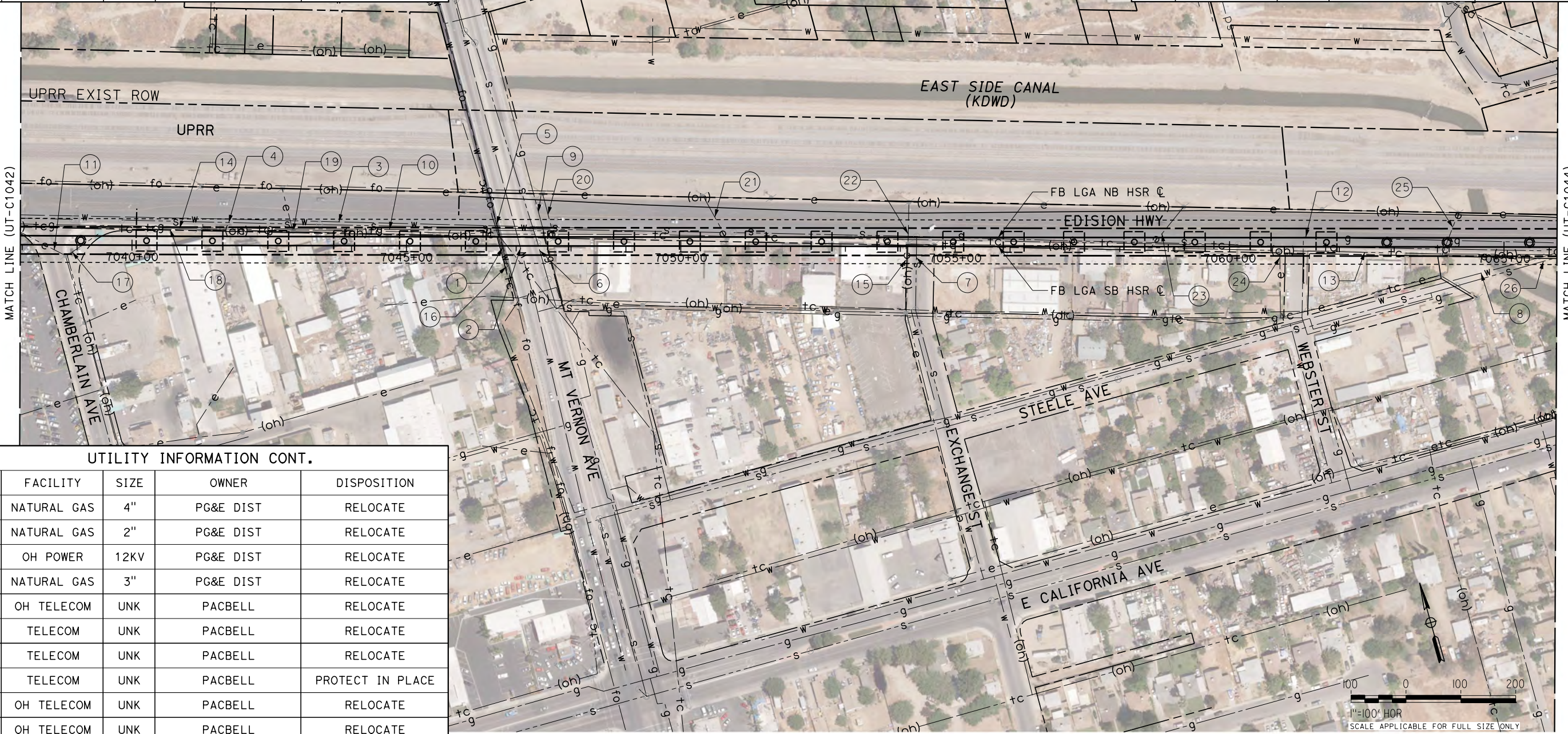
**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 7010+00 TO 7038+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1042
 SCALE
AS SHOWN
 SHEET NO.

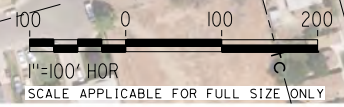
Projects\701206.N_BFSS\00_CADD\Sheet Files\Utilities\BFSSA-UT-C1043.dgn \$PLTDRVS\$ \$PENTBL\$ 10/11/2016 10:52:08 PM IEC.TSweitzer

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
1	FIBER OPTIC	UNK	CVIN	PROTECT IN PLACE
2	WATER	16"	CALWATER	PROTECT IN PLACE
3	WATER	8"	CALWATER	PROTECT IN PLACE
4	SEWER	8"	KSA	PROTECT IN PLACE
5	WATER	21"	CALWATER	PROTECT IN PLACE
6	SEWER	18"	KSA	PROTECT IN PLACE
7	SEWER	8"	KSA	PROTECT IN PLACE
8	WATER	12"	CALWATER	PROTECT IN PLACE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
19	OH POWER	12KV	PG&E DIST	REMOVE
20	OH POWER	12KV	PG&E DIST	RELOCATE
21	OH POWER	12KV	PG&E DIST	REMOVE
22	OH POWER	12KV	PG&E DIST	RELOCATE
23	OH POWER	12KV	PG&E DIST	RELOCATE
24	OH POWER	12KV	PG&E DIST	RELOCATE
25	OH POWER	12KV	PG&E DIST	RELOCATE
26	SEWER	8"	KSA	RELOCATE



UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
9	NATURAL GAS	4"	PG&E DIST	RELOCATE
10	NATURAL GAS	2"	PG&E DIST	RELOCATE
11	OH POWER	12KV	PG&E DIST	RELOCATE
12	NATURAL GAS	3"	PG&E DIST	RELOCATE
13	OH TELECOM	UNK	PACBELL	RELOCATE
14	TELECOM	UNK	PACBELL	RELOCATE
15	TELECOM	UNK	PACBELL	RELOCATE
16	TELECOM	UNK	PACBELL	PROTECT IN PLACE
17	OH TELECOM	UNK	PACBELL	RELOCATE
18	OH TELECOM	UNK	PACBELL	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
DRAWN BY
T. SWEITZER
CHECKED BY
D. CONYERS
IN CHARGE
E. WINTERS
DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**

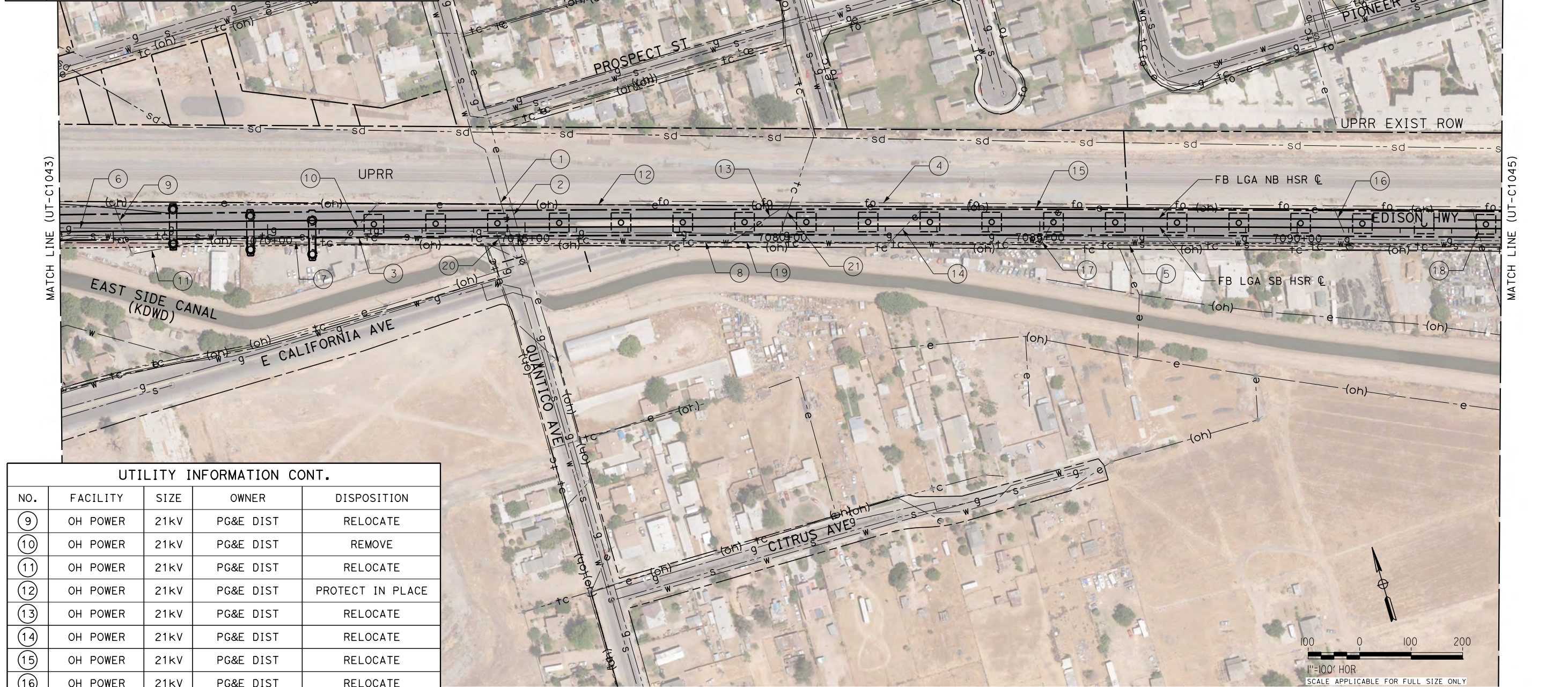


**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 7038+00 TO 7066+00

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C1043
SCALE
AS SHOWN
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	12"	CALWATER	RELOCATE
②	OH POWER	21KV	PG&E DIST	RELOCATE
③	SEWER	8"	KSA	RELOCATE
④	FIBER OPTIC	UNK	LEVEL3	PROTECT IN PLACE
⑤	SEWER	8"	KSA	PROTECT IN PLACE
⑥	NATURAL GAS	3"	PG&E DIST	RELOCATE
⑦	OH TELECOM	UNK	PACBELL	RELOCATE
⑧	TELECOM	UNK	PACBELL	PROTECT IN PLACE

UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑬	OH POWER	21KV	PG&E DIST	RELOCATE
⑭	OH POWER	21KV	PG&E DIST	RELOCATE
⑮	WATER	12"	CALWATER	PROTECT IN PLACE
⑯	NATURAL GAS	3"	PG&E DIST	RELOCATE
⑰	TELECOM	UNK	PACBELL	RELOCATE



UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
⑨	OH POWER	21KV	PG&E DIST	RELOCATE
⑩	OH POWER	21KV	PG&E DIST	REMOVE
⑪	OH POWER	21KV	PG&E DIST	RELOCATE
⑫	OH POWER	21KV	PG&E DIST	PROTECT IN PLACE
⑬	OH POWER	21KV	PG&E DIST	RELOCATE
⑭	OH POWER	21KV	PG&E DIST	RELOCATE
⑮	OH POWER	21KV	PG&E DIST	RELOCATE
⑯	OH POWER	21KV	PG&E DIST	RELOCATE

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REV	DATE	BY	CHK	APP	DESCRIPTION

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D. SALGADO
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D. CONYERS
 IN CHARGE
E. WINTERS
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10/28/2016

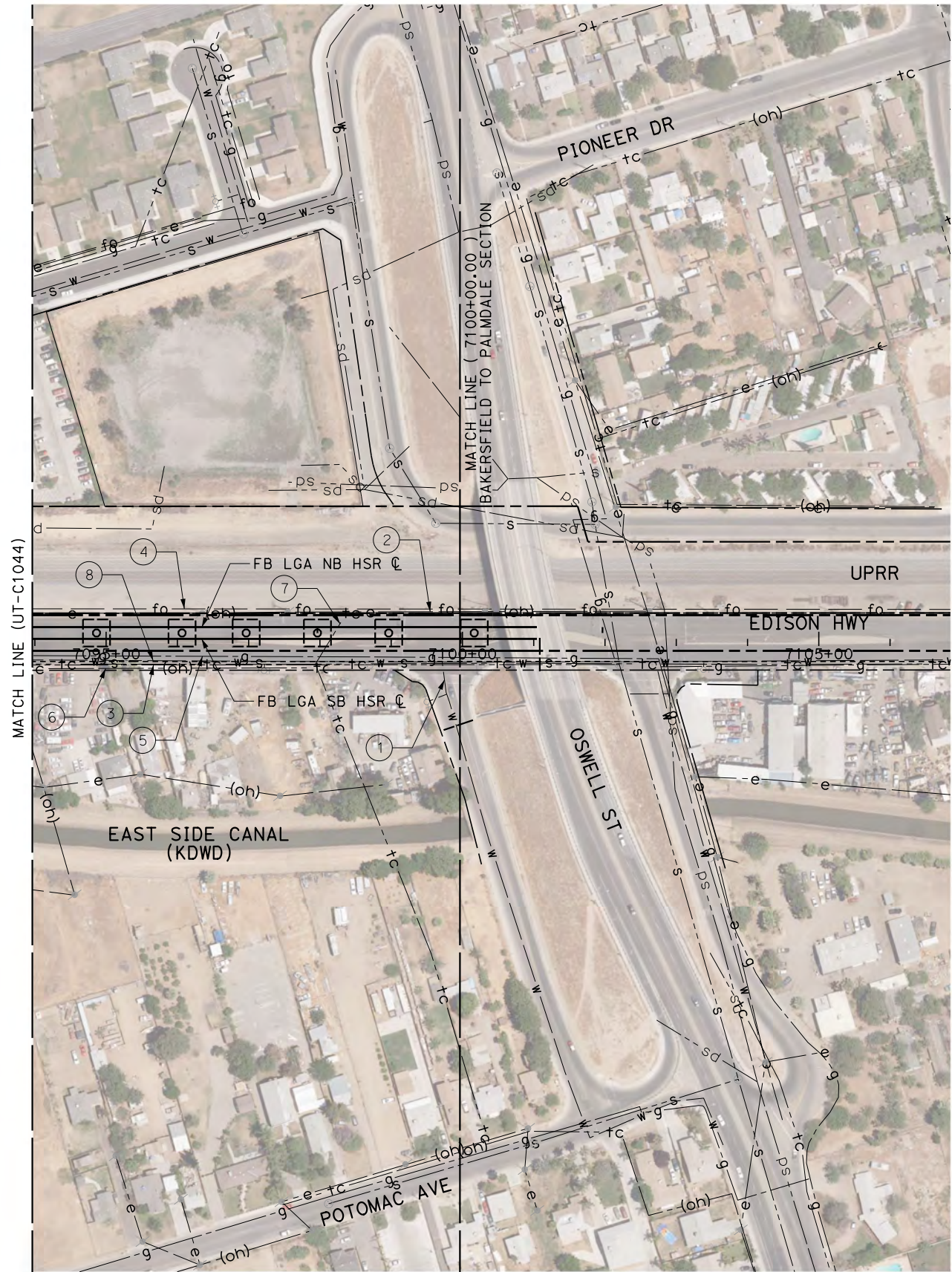
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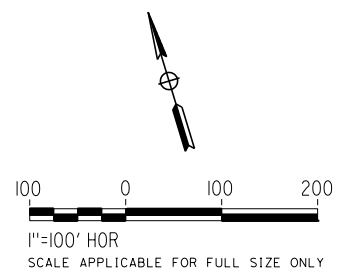
CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 STA 7066+00 TO 7094+00

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1044
 SCALE
AS SHOWN
 SHEET NO.

Projects\701206.N.BFSS\00_CADD\Sheet_Files\Utilities\BFSSA-UT-C1045.dgn \$PLTDRVS\$ \$PENTBL.S\$ 10/11/2016:52:13 PM



UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	12"	CALWATER	PROTECT IN PLACE
②	OH POWER	21kV	PG&E DIST	RELOCATE
③	SEWER	8"	KSA	REMOVE
④	FIBER OPTIC	UNK	LEVEL3	PROTECT IN PLACE
⑤	NATURAL GAS	3"	PG&E DIST	RELOCATE
⑥	OH TELECOM	UNK	PACBELL	PROTECT IN PLACE
⑦	TELECOM	UNK	PACBELL	RELOCATE
⑧	WATER	12"	CALWATER	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
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T. SWEITZER
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IN CHARGE
E. WINTERS
DATE
10/28/2016

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TYLIN INTERNATIONAL



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
STA 7094+00 TO 7100+00

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C1045
SCALE
AS SHOWN
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	NATURAL GAS	2"	SEMPRA DIST	RELOCATE
②	NATURAL GAS	2"	SEMPRA DIST	PROTECT IN PLACE
③	OH POWER	12KV	PG&E DIST	RELOCATE
④	OH POWER	12KV	PG&E DIST	RELOCATE
⑤	TELECOM	UNK	PACBELL	PROTECT IN PLACE



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CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 POPLAR AVENUE

CONTRACT NO.
 HSR13-44
 DRAWING NO.
 UT-C1501
 SCALE
 AS SHOWN
 SHEET NO.

MATCH LINE (UT-C1002)



UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	NATURAL GAS	2"	SEMPRA DIST	RELOCATE
②	OH POWER	12KV	PG&E DIST	RELOCATE
③	IRRIGATION	18"	SWID	RELOCATE
④	OH TELECOM	UNK	PACBELL	RELOCATE

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D. SALGADO
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T. SWEITZER
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D. CONYERS
 IN CHARGE
E. WINTERS
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10/28/2016

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PEPD DESIGN
SUBMISSION**

TYLIN INTERNATIONAL



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 POPLAR AVENUE

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1502
 SCALE
AS SHOWN
 SHEET NO.

Projects\701206.N_BFSS\00_CADD\Sheet_Files\Utilities\BFSSA-UT-C1503.dgn \$PLTDRVS\$ \$PENTBLS\$ 10/11/2016 5:15:28 PM IEC.TSweitzer



UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	IRRIGATION	12"	SWID	RELOCATE
②	OH POWER	12kV	PG&E DIST	RELOCATE
③	OH POWER	12kV	PG&E DIST	RELOCATE
④	NATURAL GAS	2"	SEMPRA DIST	RELOCATE
⑤	NATURAL GAS	1"	SEMPRA DIST	RELOCATE
⑥	OIL	8"	CRC	RELOCATE
⑦	NATURAL GAS	6"	CRC	RELOCATE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
DRAWN BY
T. SWEITZER
CHECKED BY
D. CONYERS
IN CHARGE
E. WINTERS
DATE
10/28/2016

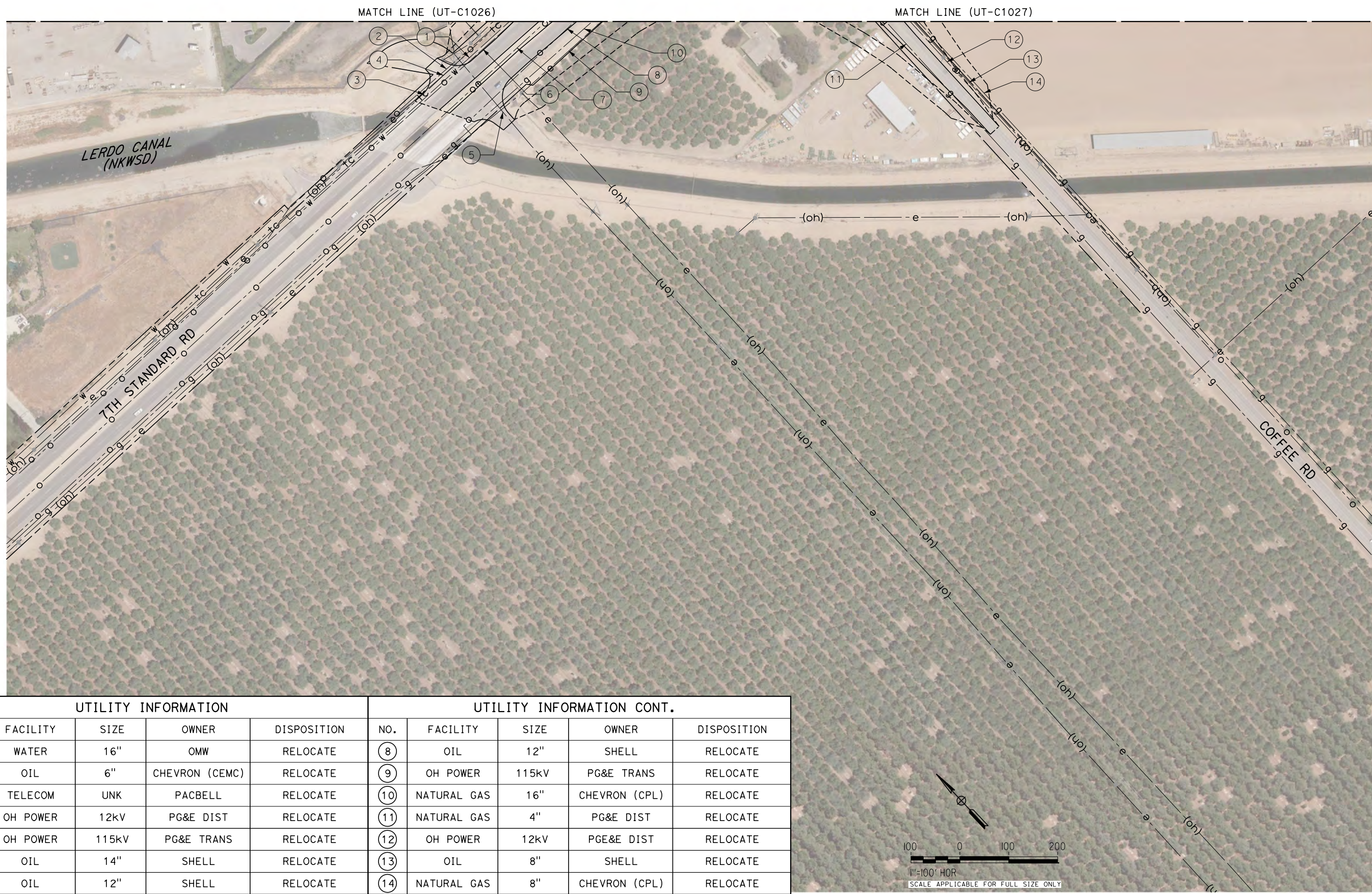
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PEPD DESIGN
SUBMISSION**



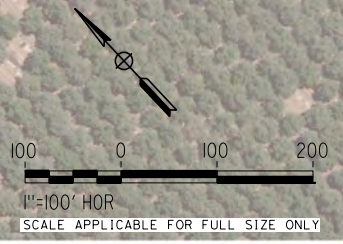
**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
RIVERSIDE STREET

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C1503
SCALE
AS SHOWN
SHEET NO.

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UTILITY INFORMATION					UTILITY INFORMATION CONT.				
NO.	FACILITY	SIZE	OWNER	DISPOSITION	NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	WATER	16"	OMW	RELOCATE	⑧	OIL	12"	SHELL	RELOCATE
②	OIL	6"	CHEVRON (CEMC)	RELOCATE	⑨	OH POWER	115kV	PG&E TRANS	RELOCATE
③	TELECOM	UNK	PACBELL	RELOCATE	⑩	NATURAL GAS	16"	CHEVRON (CPL)	RELOCATE
④	OH POWER	12kV	PG&E DIST	RELOCATE	⑪	NATURAL GAS	4"	PG&E DIST	RELOCATE
⑤	OH POWER	115kV	PG&E TRANS	RELOCATE	⑫	OH POWER	12kV	PGE&E DIST	RELOCATE
⑥	OIL	14"	SHELL	RELOCATE	⑬	OIL	8"	SHELL	RELOCATE
⑦	OIL	12"	SHELL	RELOCATE	⑭	NATURAL GAS	8"	CHEVRON (CPL)	RELOCATE



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
DRAWN BY
T. SWEITZER
CHECKED BY
D. CONYERS
IN CHARGE
E. WINTERS
DATE
10/28/2016

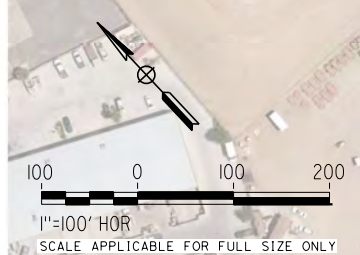
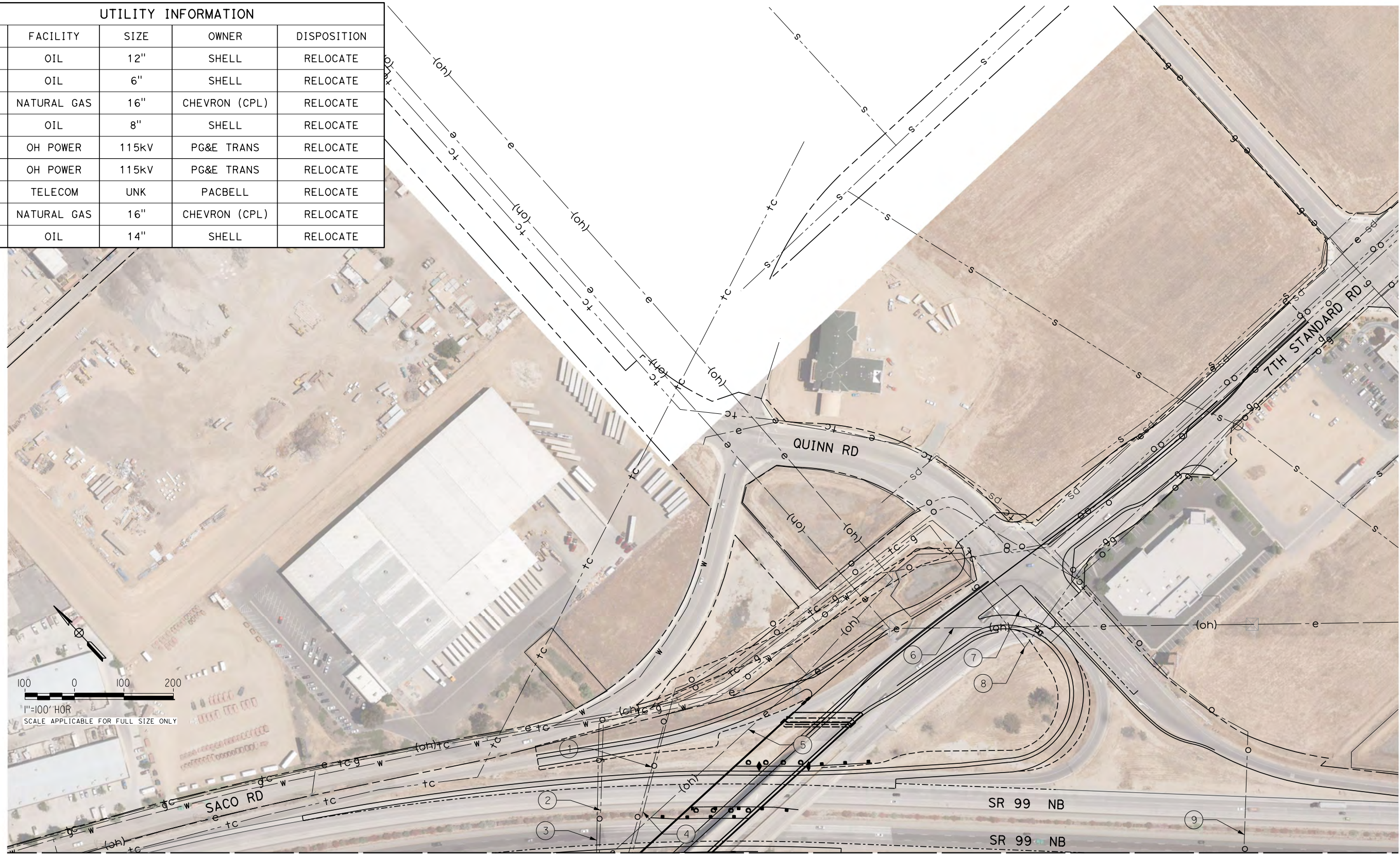
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PEPD DESIGN
SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD**
LOCALLY GENERATED ALTERNATIVE
UTILITIES
COMPOSITE UTILITY PLAN
7TH STANDARD RD

CONTRACT NO.
HSR13-44
DRAWING NO.
UT-C1504
SCALE
AS SHOWN
SHEET NO.

UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	OIL	12"	SHELL	RELOCATE
②	OIL	6"	SHELL	RELOCATE
③	NATURAL GAS	16"	CHEVRON (CPL)	RELOCATE
④	OIL	8"	SHELL	RELOCATE
⑤	OH POWER	115kV	PG&E TRANS	RELOCATE
⑥	OH POWER	115kV	PG&E TRANS	RELOCATE
⑦	TELECOM	UNK	PACBELL	RELOCATE
⑧	NATURAL GAS	16"	CHEVRON (CPL)	RELOCATE
⑨	OIL	14"	SHELL	RELOCATE



MATCH LINE (UT-C1027)

IEC:Tsweitzer 10/11/2016 1:48:16 PM \$PENTBL.S\$ \$PLTDRVS\$ Projects\701206.N_BFSS\00_CADD\Sheet_Files\Utilities\BFSSA-UT-C1505.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
 DRAWN BY
T. SWEITZER
 CHECKED BY
D. CONTYERS
 IN CHARGE
E. WINTERS
 DATE
10/28/2016

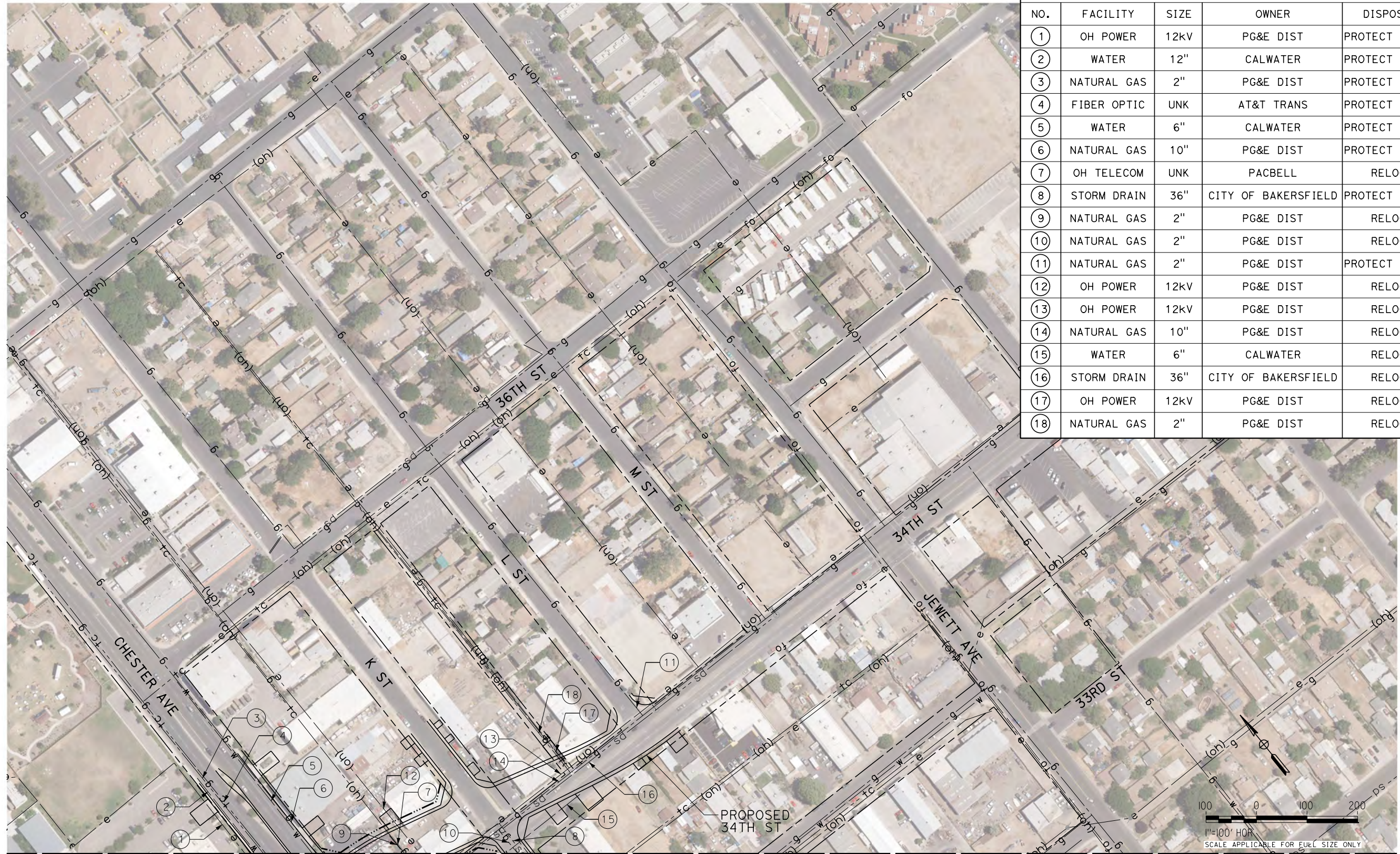
RECORD SET
PEPD DESIGN
SUBMISSION



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 7TH STANDARD RD

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1505
 SCALE
AS SHOWN
 SHEET NO.

Projects\701206.N_BFSS\00_CADD\Sheet Files\Utilities\BFSSA-UT-C1507.dgn
 \$PLTDRVS\$
 \$PENTBL\$
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UTILITY INFORMATION				
NO.	FACILITY	SIZE	OWNER	DISPOSITION
①	OH POWER	12KV	PG&E DIST	PROTECT IN PLACE
②	WATER	12"	CALWATER	PROTECT IN PLACE
③	NATURAL GAS	2"	PG&E DIST	PROTECT IN PLACE
④	FIBER OPTIC	UNK	AT&T TRANS	PROTECT IN PLACE
⑤	WATER	6"	CALWATER	PROTECT IN PLACE
⑥	NATURAL GAS	10"	PG&E DIST	PROTECT IN PLACE
⑦	OH TELECOM	UNK	PACBELL	RELOCATE
⑧	STORM DRAIN	36"	CITY OF BAKERSFIELD	PROTECT IN PLACE
⑨	NATURAL GAS	2"	PG&E DIST	RELOCATE
⑩	NATURAL GAS	2"	PG&E DIST	RELOCATE
⑪	NATURAL GAS	2"	PG&E DIST	PROTECT IN PLACE
⑫	OH POWER	12KV	PG&E DIST	RELOCATE
⑬	OH POWER	12KV	PG&E DIST	RELOCATE
⑭	NATURAL GAS	10"	PG&E DIST	RELOCATE
⑮	WATER	6"	CALWATER	RELOCATE
⑯	STORM DRAIN	36"	CITY OF BAKERSFIELD	RELOCATE
⑰	OH POWER	12KV	PG&E DIST	RELOCATE
⑱	NATURAL GAS	2"	PG&E DIST	RELOCATE

MATCH LINE (UT-C1037)

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
D. SALGADO
 DRAWN BY
T. SWEITZER
 CHECKED BY
D. CONYERS
 IN CHARGE
E. WINTERS
 DATE
10/28/2016

**RECORD SET
 PECD DESIGN
 SUBMISSION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT
 FRESNO TO BAKERSFIELD**
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 34TH STREET

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-C1507
 SCALE
AS SHOWN
 SHEET NO.

ZONE	COUNTY	HST ALIGN	EASTING	NORTHING	POINT ID	STATION	PROPOSED FACILITY SIZE (FT)	PROPOSED/EXISTING FEATURE CROSSED	CROSSING ANGLE	ROW WIDTH WEST OF CL (FT)	ADDITIONAL WIDTH EACH SIDE (FT)	TOTAL LENGTH OF CHANNEL SPANNED BY CULVERT (FT)	EXISTING INVERT ELEVATION	PROPOSED TO OF RAIL ELEVATION	HEIGHT TO TOP OF RAIL (FT)
11S	KER	FB LGA	6175957.63	2378746.29		5882+92	5x5	HYDRAULIC CROSS CULVERT	90	60	0	128	345.00	355.57	10.57
11S	KER	FB LGA	6176255.70	2378455.89		5886+08	5x5	HYDRAULIC CROSS CULVERT	90	56	0	142	343.59	355.57	11.98
11S	KER	FB LGA	6177285.61	2377431.38		5900+61	5x5	HYDRAULIC CROSS CULVERT	90	55	0	185	344.84	355.57	10.73
11S	KER	FB LGA	6177919.07	2376771.85		5909+82	5x5	HYDRAULIC CROSS CULVERT	90	57	0	183	343.76	355.57	11.81
11S	KER	FB LGA	6179133.17	2375581.43		5926+75	5x5	HYDRAULIC CROSS CULVERT	90	68	0	256	345.05	359.86	14.81
11S	KER	FB LGA	6180108.03	2374542.00		5941+00	5x5	HYDRAULIC CROSS CULVERT	90	81	0	209	344.78	371.91	27.13
11S	KER	FB LGA	6196646.90	2361623.15		6153+17	5x5	HYDRAULIC CROSS CULVERT	90	67	0	143	349.39	362.83	13.44
11S	KER	FB LGA	6198075.49	2361150.06		6168+22	5x5	HYDRAULIC CROSS CULVERT	90	56	0	126	350.05	362.05	12.00
11S	KER	FB LGA	6199864.57	2360671.15		6185+75	5x5	HYDRAULIC CROSS CULVERT	90	59	0	134	350.69	363.78	13.08
11S	KER	FB LGA	6202447.90	2360194.91		6213+05	5x5	HYDRAULIC CROSS CULVERT	90	76	0	142	353.19	375.52	22.33
11S	KER	FB LGA	6205007.76	2359963.78		6238+76	5x5	HYDRAULIC CROSS CULVERT	90	78	0	147	363.70	377.29	13.58
11S	KER	FB LGA	6206326.01	2359931.02		6251+95	5x5	HYDRAULIC CROSS CULVERT	90	84	0	163	366.58	393.12	26.55
11S	KER	FB LGA	6207010.86	2359919.27		6258+80	5x5	HYDRAULIC CROSS CULVERT	90	93	0	178	365.86	395.94	30.08
11S	KER	FB LGA	6207631.55	2359901.64		6265+00		BRIDGE OVER ZACHARY AVE	90		0	213	366.13	400.47	34.33
11S	KER	FB LGA	6208977.51	2359888.65		6278+46	5x5	HYDRAULIC CROSS CULVERT	90	102	0	203	368.93	404.81	35.87
11S	KER	FB LGA	6211621.60	2359851.59		6304+91	5x5	HYDRAULIC CROSS CULVERT	90	103	0	203	374.86	411.04	36.18
11S	KER	FB LGA	6212288.54	2359840.99		6311+58	5x5	HYDRAULIC CROSS CULVERT	90	99	0	198	377.15	411.58	34.42
11S	KER	FB LGA	6213029.75	2359827.89		6318+99	5x5	HYDRAULIC CROSS CULVERT	90	102	0	201	378.08	412.17	34.09
11S	KER	FB LGA	6214232.80	2359805.02		6331+00		CANAL	65		0	44	381.04	413.10	32.07
11S	KER	FB LGA	6218205.35	2359541.42		6371+00		BRIDGE OVER ZERKER RD	90		0	50	393.83	416.33	32.50
11S	KER	FB LGA	6220178.95	2359197.70		6390+91	5x5	HYDRAULIC CROSS CULVERT	80	104	0	205	383.21	417.93	34.71
11S	KER	FB LGA	6221481.94	2358890.19		6404+29	5x5	HYDRAULIC CROSS CULVERT	78	102	0	206	384.30	419.02	34.71
11S	KER	FB LGA	6223463.41	2358283.59		6425+00		CANAL	90		0	50	382.87	424.39	41.53
11S	KER	FB LGA	6224101.74	2358066.16		6431+77	5x5	HYDRAULIC CROSS CULVERT	74	100	0	206	387.23	427.35	40.13
11S	KER	FB LGA	6225531.33	2357489.60		6447+57	5x5	HYDRAULIC CROSS CULVERT	90	103	0	210	394.01	435.16	41.15
11S	KER	FB LGA	6226071.77	2357251.84		6453+10	5x5	HYDRAULIC CROSS CULVERT	65	103	0	235	396.90	438.02	41.12
11S	KER	FB LGA	6226735.52	2356932.65		6460+45	5x5	HYDRAULIC CROSS CULVERT	65	100	0	233	402.16	441.56	39.40
11S	KER	FB LGA	6227393.14	2356599.65		6467+82	5x5	HYDRAULIC CROSS CULVERT	65	107	0	285	406.11	444.86	38.75
11S	KER	FB LGA	6228717.23	2355851.05		6483+00		BRIDGE OVER VERDUGO LN	90		0	50	414.86	452.36	37.51
11S	KER	FB LGA	6230703.04	2354561.25		6520+80	5x5	HYDRAULIC CROSS CULVERT	63	136	0	285	426.99	470.38	43.39
11S	KER	FB LGA	6231367.06	2354060.17		6515+00		CANAL	90		0	50	429.86	486.00	56.14
11S	KER	FB LGA	6253821.22	2332614.91		6826+00		CANAL	90	63	0	118	397.58	462.44	64.86
11S	KER	FB LGA	6254592.50	2331978.41		6836+00		BRIDGE OVER KERN RIVER	90		0	118	394.86	459.86	65.00

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. YIM
 DRAWN BY
T. SWEITZER
 CHECKED BY
D. CONYERS
 IN CHARGE
E. WINTERS
 DATE
10/28/2016

**RECORD SET
PEPD DESIGN
SUBMISSION**



CALIFORNIA HIGH-SPEED RAIL PROJECT
FRESNO TO BAKERSFIELD
 LOCALLY GENERATED ALTERNATIVE
 UTILITIES
 COMPOSITE UTILITY PLAN
 HH&D FACILITY SCHEDULE

CONTRACT NO.
HSR13-44
 DRAWING NO.
UT-Y4505
 SCALE
NO SCALE
 SHEET NO.

