ALTERNATIVE 3
GRADING AND DRAINAGE
STA. 19420+00 TO 19445+00
PLAN

OFFSITE DITCH
MATCH LINE (CV-G4405)
OFFSITE DITCH

MATCH LINE (CV-G4407)

TRANSACTION STRUCTURE
WATER COURSE CONVEYANCE/ENERGY DISSIPATION SYSTEM

CHANNEL SYSTEM
CONVEYANCE/ENERGY DISSIPATION SYSTEM

DISSIPATION SYSTEM
CONVEYANCE/ENERGY DISSIPATION SYSTEM

• CHSR SB ALIGNMENT "ALT 3"
• CHSR NB ALIGNMENT "ALT 3"

PROP CHSR R/W
GRADE TO DRAIN

CHSR TUNNEL
DRAIN
GRADE TO

ONSITE DITCH

PROP CHSR R/W
GRADE TO DRAIN

CHSR TUNNEL
DRAIN
GRADE TO

ONSITE DITCH

TRAPEZOIDAL CHANNEL (CONC) D=3FT, TW=22FT,

n=0.13, Q=160CFS
ALTERNATIVE 3
GRADING AND DRAINAGE
STA. 19470+00 TO 19495+00
PLAN
ALTERNATIVE 3
GRADING AND DRAINAGE
STA. 19545+00 TO 19570+00

PLAN

CHSR TUNNEL
E CHSR NB ALIGNMENT "ALT 3"
E CHSR SB ALIGNMENT "ALT 3"

SANDLIN CT

MATCH LINE ( CV-G4410 )
MATCH LINE ( CV-G4412 )

DATE CHK APP
BY REV
DESCRIPTION
DESIGNED BY R. KRAFT
DRAWN BY A. CAROLINO
CHECKED BY G. CAMPBELL
IN CHARGE S. SMITH
DATE 10/31/2017
RECORD PE-PD SUBMITTAL
NOT FOR CONSTRUCTION

PHASE 102
ARCHITECT/ENGINEER OF RECORD
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
CONTRACT NO. HSR13-44
DRAWING NO. CV-G4411
SCALE AS SHOWN
SHEET NO.

9/21/2017 8:36:53 AM
10/2/2017 1:56:49 PM
11/7/2017 11:59:40 AM
ALTERNATIVE 3
GRADING AND DRAINAGE
STA. 19570+00 TO 19595+00
PLAN

TENACAPIL WILLOW SPRINGS RD

• CHSR NB ALIGNMENT "ALT 3"
• CHSR SB ALIGNMENT "ALT 3"

MATCH LINE (CV-G4411)
MATCH LINE (CV-G4413)

DATE CHK APP REV

DESIGNED BY:
R. KRAFT

DRAWN BY:
A. CAROLINO

CHECKED BY:
G. CAMPBELL

IN CHARGE:
S. SMITH

10/31/2017

RECORD PE PD SUBMITTAL

NOT FOR CONSTRUCTION

Projects\701206.00_CHSRBP\00 CADD\Sheet Files\CV\G\BP-CV-G4412.dgn

11/7/2017 10:20:13 PM

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
CONTRACT NO. HSR13-44
DRAWING NO. CV-G4412
SCALE AS SHOWN
SHEET NO.
ALTERNATIVE 3

GRADING AND DRAINAGE

STA. 19645+00 TO 19670+00

MATCH LINE (CV-G4431)

MATCH LINE (CV-G4414)

PROP. CHEM. RIN.

COMBINED DITCH/LID BMP

ONSITE DITCH/LID BMP

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PTEF

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R
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 3
GRADING AND DRAINAGE
ACCESS ROAD STA. 1972+00
PLAN

MATCH LINE (CV-G4434)

MATCH LINE (CV-G4432)

COMBINED DITCH/LID BMP

ONSITE DITCH/LID BMP

DIP CROSSING

PROP CASH ACCESS EASEMENT

PPEF

PTEF

COMBINED DITCH/LID BMP

NOTE: SCALE APPLICABLE FOR FULL SIZE ONLY

DESIGNED BY
R. KRAFT

DRAWN BY
A. CAROLINO

CHECKED BY
G. CAMPBELL

IN CHARGE
S. SMITH

DATE
10/31/2017

RECORD
PEPD

SUBMITTAL

NOT FOR
CONSTRUCTION

PROJECTS\701206.00_CHSRBP\00 CADD\Sheet Files\CV\G\BP-CV-G4433.dgn

10/31/2017 11:39:57 PM

QIC.ADodge

11/7/2017
ALTERNATIVE 5
GRADING AND DRAINAGE
STA. 20745+00 TO 20770+00

PLAN

MOTTE LINE (CV-G4501)

CHSR STRUCTURE

MATCH LINE (CV-G4501)

MATCH LINE (CV-G4503)

COMBINED DITCH/LID BMP

E CHSR NO ALIGNMENT "ALT 5"

E CHSR SB ALIGNMENT "ALT 5"

BOUNDARY

100-YEAR FLOODPLAIN

ARMAGOSA CREEK

• CHSR SB ALIGNMENT "ALT 5"

• CHSR NB ALIGNMENT "ALT 5"

W AV

E H T S T W

PTEF

PTEF

PROP CHSR R/W

PROP CHSR R/W

PTEF

PTEF

DATE CHK APP BY REV DESCRIPTION

DESIGNED BY R. KRAFT
DRAWN BY A. CAROLINO
CHECKED BY G. CAMPBELL
IN CHARGE S. SMITH

DATE 10/31/2017

RECORD PEPD SUBMITTAL

NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 5
GRADING AND DRAINAGE
STA. 20745+00 TO 20770+00
PLAN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

TYLUN INTERNATIONAL

CONTRACT NO. HSR13-44
DRAWING NO. CV-G4502
SCALE AS SHOWN
SHEET NO.
ALTERNATIVE 5
GRADING AND DRAINAGE
STA. 20795+00 TO 20820+00
PLAN
ALTERNATIVE 5
GRADING AND DRAINAGE
STA. 21020+00 TO 21045+00
PLAN

BAKERSFIELD TO PALMDALE
ALTERNATIVE 5
GRADING AND DRAINAGE
STA. 21020+00 TO 21045+00
PLAN

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
CONTRACT NO. HSR13-44
DRAWING NO. CV-G4513
SCALE AS SHOWN
SHEET NO.
ALTERNATIVE 5
GRADING AND DRAINAGE
STA. 21145+00 TO 21170+00

PLAN

MATCH LINE ( CV-G4517 )

MATCH LINE ( CV-G4528 )

UNION PACIFIC RAILROAD

MATCH LINE ( CV-G4519 )

ONSITE DITCH

MATCH LINE ( CV-G4517 )

OFFSITE DITCH

CROSSING

STRUCTURE/WILDLIFE

METAIRIN R/W

METROLINK R/W

UPRR R/W

UNION PACIFIC RAILROAD

DATE

10/31/2017

REVIEW

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 5
GRADING AND DRAINAGE
STA. 21145+00 TO 21170+00
PLAN

PROJECTS\001300\MDM\HighSpeedRail\Chsr\Projects\701206.00_CHSRBP\00 CADD\Sheet Files\CV\G\BP-CV-G4518.dgn

R. KRAFT

A. CAROLINO

G. CAMPBELL

S. SMITH

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

12/17/2017 11:22:44 PM

QIC.ADodge
ALTERNATIVE 5
GRADING AND DRAINAGE
STA. 21170+00 TO 21195+00

PLAN

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 5
GRADING AND DRAINAGE
STA. 21170+00 TO 21195+00

PLAN

MATCH LINE ( CV-G4520 )

MATCH LINE ( CV-G4529 )

UPRR R/W

METROLINK R/W

AVE N-4

METROLINK R/W

AVE N-4

PROJECTS\701206.00_CHSRBP\00 CADD\Sheet Files\CV\G\BP-CV-G4519.dgn

10/31/2017

R. KRAFT

A. CAROLINO

G. CAMPBELL

S. SMITH

10:53:41 PM

11/7/2017

PEPD

SUBMITTAL

NOT FOR CONSTRUCTION

MATCH LINE ( CV-G4518 )
ALTERNATIVE 5
GRADING AND DRAINAGE
STA. 21195+00 TO 21220+00

PLAN

MATCH LINE (CV-G4520)
ALTERNATIVE 5
GRADING AND DRAINAGE
STA. 21020+00 TO 21045+00

PLAN

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE S
GRADING AND DRAINAGE
STA. 21020+00 TO 21045+00
PLAN
ALTERNATIVE 5
GRADING AND DRAINAGE
STA. 21170+00 TO 21195+00
PLAN
ALTERNATIVE 5
GRADING AND DRAINAGE
STA. 21195+00 TO 21220+00

PLAN

CULVERT

OFFSITE DITCH

MATCH LINE (CV-G4520)

MATCH LINE (CV-G4529)

OFFSITE BASIN

PROPRIETARY

OPPOSITION CULVERT

PROP DRAINAGE CULVERT

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 5
GRADING AND DRAINAGE
STA. 21195+00 TO 21220+00
PLAN

DESIGNED BY
R. KRAFT
DRAWN BY
A. CAROLINO
CHECKED BY
G. CAMPBELL
IN CHARGE
S. SMITH

DATE
10/31/2017

RECORD
PEPD
SUBMITTAL
NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4530
SCALE
AS SHOWN
SHEET NO.

1/16" = 100'
HOR SCALE APPLICABLE FOR FULL SIZE ONLY

DRAWN BY
A. CAROLINO
APPROVED BY
G. CAMPBELL
IN CHARGE
S. SMITH

DATE
10/31/2017

RECORD
PEPD
SUBMITTAL
NOT FOR CONSTRUCTION