CALIFORNIA HIGH-SPEED RAIL PROJECT
Bakersfield to Palmdale
Alternative 1,2,5
Grading and Drainage
STA. 1880+500 to 1983+000
Plan

DATE
CHECKED BY G. CAMPBELL
IN CHARGE S. SMITH

DESIGNED BY R. KRAFT
DRAWN BY A. CAROLINO

1/11/2011 10:37:21 PM

Projects\124260.00_CHSRBP\00 CADD\Sheet Files\CV\G\BP-CV-G4102.dgn

10/31/2017

QIC.ADodge

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NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
ALTERNATIVE 1,2,5
GRADING AND DRAINAGE
STA. 1880+500 TO 1983+000
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1,2,5
GRADING AND DRAINAGE
STA. 19885+00 TO 19910+00
PLAN

CONSORTIUM NO.
HSR13-44
DRAWING NO.
CV-G4105
SCALE
AS SHOWN
SHEET NO.
CV-04104

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

DATE
10/31/2017

ONSITE BASIN
CHSR STRUCTURE

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

ONSITE DITCH
OFFSITE DITCH
MATCH LINE (CV-G4106)
MATCH LINE (CV-G4104)

PROP CHSR R/W
PROP CHSR R/W

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S T W

MONTEREY RD

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4105
SCALE
AS SHOWN
SHEET NO.
CV-04104

MONTEREY RD

10/31/2017
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

ALTERNATIVE 1,2,5
GRADING AND DRAINAGE
STA. 20010+00 TO 20035+00
PLAN

ON-SITE BASIN
FLOOD CONTROL
SPREADING BASIN

WATER SOURCE IMPROVEMENTS REQUIRED
TRAPEZOIDAL CHANNEL
Q=2,770 CFS, D=5', TW=160', n=0.50, (RIPRAP)

TRAPEZOIDAL CHANNEL

• CHSR NB ALIGNMENT "ALT 1,2,5"
• CHSR SB ALIGNMENT "ALT 1,2,5"

MATCH LINE (CV-G4111)
MATCH LINE (CV-G4109)

QIC: ADODGE

RECORD
PEPD
SUBMITTAL

NOT FOR CONSTRUCTION

SCALE AS SHOWN

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G4110
SHEET NO.

1/10/2017
11:26:04 AM

Bakersfield to Palmdale

Q=2,770 CFS
D=5', TW=160', n=0.50, (RIPRAP)
CALIFORNIA HIGH-SPEED RAIL PROJECT
Bakersfield to Palmdale
Alternative 1, 2, 3, 5
Grading and Drainage
STA: 20035+00 to 20064+00
Plan
CALIFORNIA HIGH-SPEED RAIL PROJECT
Bakersfield to Palmdale
Alternative 1, 2, 3, 5
Grading and Drainage
STA, 2011400 to 2013400
Plan

Projects: 2011400, 2012400, 2013400
Sheet: CV-G4114

LID BMP
ONSITE DITCH
PROP CHSR R/W
• CHSR NB ALIGNMENT "ALT 1,2,3,5"
• CHSR SB ALIGNMENT "ALT 1,2,3,5"

100-YEAR FLOODPLAIN
BOUNDARY

ANTELOPE VALLEY 1

MATCH LINE (CV-G4113)

MATCH LINE (CV-G4115)
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
STA. 20135+00 TO 20160+00
PLAN
CALIFORNIA HIGH-SPEED RAIL PROJECT
Bakersfield to Palmdale
Alternative 1,2,3,5
Grading and Drainage
STA: 20180+00 to 20185+00
Plan
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
STA. 20185+00 TO 20210+00
PLAN

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

lio = 32, \Delta = 248', \eta = 0.20
Q = 21,701\text{cfs}

TRAPEZOIDAL CHANNEL (RIPRAP)

QUESTIONS ABOUT THE DRAWING?

DATE
CHECK
APP
BY
REV

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

DATE
10/31/2017

PROJECTS/701206.00_CHSRBP/00 CADD/SHEET Files/CV/G/BP-CV-G4117.dgn

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11/7/2017

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RECORD
PEPD
SUBMITTAL
NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
STA. 20185+00 TO 20210+00
PLAN

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

lio = 32, \Delta = 248', \eta = 0.20
Q = 21,701\text{cfs}

TRAPEZOIDAL CHANNEL (RIPRAP)

QUESTIONS ABOUT THE DRAWING?

DATE
CHECK
APP
BY
REV

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

DATE
10/31/2017

PROJECTS/701206.00_CHSRBP/00 CADD/SHEET Files/CV/G/BP-CV-G4117.dgn

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RECORD
PEPD
SUBMITTAL
NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
STA. 20185+00 TO 20210+00
PLAN

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

lio = 32, \Delta = 248', \eta = 0.20
Q = 21,701\text{cfs}

TRAPEZOIDAL CHANNEL (RIPRAP)

QUESTIONS ABOUT THE DRAWING?

DATE
CHECK
APP
BY
REV

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DESIGNED BY
R. KRAFT
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RECORD
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SUBMITTAL
NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
STA. 20185+00 TO 20210+00
PLAN

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

lio = 32, \Delta = 248', \eta = 0.20
Q = 21,701\text{cfs}

TRAPEZOIDAL CHANNEL (RIPRAP)

QUESTIONS ABOUT THE DRAWING?

DATE
CHECK
APP
BY
REV

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

DATE
10/31/2017

PROJECTS/701206.00_CHSRBP/00 CADD/SHEET Files/CV/G/BP-CV-G4117.dgn

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RECORD
PEPD
SUBMITTAL
NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
STA. 20185+00 TO 20210+00
PLAN

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

lio = 32, \Delta = 248', \eta = 0.20
Q = 21,701\text{cfs}

TRAPEZOIDAL CHANNEL (RIPRAP)

QUESTIONS ABOUT THE DRAWING?

DATE
CHECK
APP
BY
REV

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

DATE
10/31/2017

PROJECTS/701206.00_CHSRBP/00 CADD/SHEET Files/CV/G/BP-CV-G4117.dgn

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RECORD
PEPD
SUBMITTAL
NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
STA. 20185+00 TO 20210+00
PLAN

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

ONSITE BASIN
ONSITE DITCH
OFFSITE DITCH
WATERcourses

lio = 32, \Delta = 248', \eta = 0.20
Q = 21,701\text{cfs}

TRAPEZOIDAL CHANNEL (RIPRAP)

QUESTIONS ABOUT THE DRAWING?
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1,2,3,5
GRADING AND DRAINAGE
STA. 20260+00 TO 20285+00
PLAN

WATERCOURSE IMPROVEMENTS REQUIRED

ONSITE BASIN
OFFSITE DITCH

DITCH CONNECTION

ON SITE DITCH
OFFSITE DITCH

PROOF CHSR A/R
CHSR STRUCTURE

MATCH LINE (CV-G4121)
MATCH LINE (CV-G4119)

PROP CHSR R/W
PROP CHSR A/R

Q = 21,701 CFS
D = 12', TW = 248', n = 0.50
TRAPEZOIDAL CHANNEL (RIPRAP)

CHSR NB ALIGNMENT "ALT 1,2,3,5"
CHSR SB ALIGNMENT "ALT 1,2,3,5"

• CHSR NB ALIGNMENT "ALT 1,2,3,5"
• CHSR SB ALIGNMENT "ALT 1,2,3,5"

JACKSON AV
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CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1, 2, 3, 5
GRADING AND DRAINAGE
STA. 20360+00 TO 20385+00
PLAN

<table>
<thead>
<tr>
<th>STA</th>
<th>Match Line (CV-G4123)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20360+00</td>
<td></td>
</tr>
<tr>
<td>20365+00</td>
<td></td>
</tr>
<tr>
<td>20370+00</td>
<td></td>
</tr>
<tr>
<td>20375+00</td>
<td></td>
</tr>
<tr>
<td>20380+00</td>
<td></td>
</tr>
<tr>
<td>20385+00</td>
<td></td>
</tr>
</tbody>
</table>

Legend:

- **ONSITE DITCH IN FILL**
- **OFFSITE DITCH**
- **PROP DRAINAGE CULVERT**
- **ONSITE BASIN**
- **PROP CHSR R/W**
- **PROP CHSR ACCESS EASEMENT**
- **CHSR STRUCTURE**
- **MATCH LINE (CV-G4125)**
- **MATCH LINE (CV-G4123)**

Special Notes:

- CHSR NB ALIGNMENT "ALT 1, 2, 3, 5"
- CHSR SB ALIGNMENT "ALT 1, 2, 3, 5"

Scale: AS SHOWN

Contract No.: HSR13-44

Drawing No.: CV-G4124
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1,2,3,5
STRAIGHT AND DRAINAGE
STA. 20610+00 TO 20635+00
PLAN

MATCH LINE ( CV-G4133 )

MATCH LINE ( CV-G4135 )

PROJECTS\701206.00_CHSRBP\00 CADD\Sheet Files\CV\G\BP-CV-G4134.dgn

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11/7/2017
QIC.ADodge

DATE
10/31/2017

DATE
11/7/2017

CHK

APP

BY

REV

DESCRIPTION

RECORD

PEPD

SUBMITTAL

NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1,2,3,5
STRAIGHT AND DRAINAGE
STA. 20610+00 TO 20635+00
PLAN

MATCH LINE ( CV-G4133 )

MATCH LINE ( CV-G4135 )

PROJECTS\701206.00_CHSRBP\00 CADD\Sheet Files\CV\G\BP-CV-G4134.dgn

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11/7/2017

CHK

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DESCRIPTION

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PEPD

SUBMITTAL

NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1,2,3,5
STRAIGHT AND DRAINAGE
STA. 20610+00 TO 20635+00
PLAN

MATCH LINE ( CV-G4133 )

MATCH LINE ( CV-G4135 )

PROJECTS\701206.00_CHSRBP\00 CADD\Sheet Files\CV\G\BP-CV-G4134.dgn

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CHK

APP

BY

REV

DESCRIPTION

RECORD

PEPD

SUBMITTAL

NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1,2,3,5
STRAIGHT AND DRAINAGE
STA. 20610+00 TO 20635+00
PLAN

MATCH LINE ( CV-G4133 )

MATCH LINE ( CV-G4135 )

PROJECTS\701206.00_CHSRBP\00 CADD\Sheet Files\CV\G\BP-CV-G4134.dgn

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11/7/2017

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DESCRIPTION

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SUBMITTAL

NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1,2,3,5
STRAIGHT AND DRAINAGE
STA. 20610+00 TO 20635+00
PLAN

MATCH LINE ( CV-G4133 )

MATCH LINE ( CV-G4135 )

PROJECTS\701206.00_CHSRBP\00 CADD\Sheet Files\CV\G\BP-CV-G4134.dgn

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11/7/2017

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DESCRIPTION

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NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1,2,3,5
STRAIGHT AND DRAINAGE
STA. 20610+00 TO 20635+00
PLAN

MATCH LINE ( CV-G4133 )

MATCH LINE ( CV-G4135 )

PROJECTS\701206.00_CHSRBP\00 CADD\Sheet Files\CV\G\BP-CV-G4134.dgn

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DATE
10/31/2017

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11/7/2017

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BY

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DESCRIPTION

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PEPD

SUBMITTAL

NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1,2,3,5
STRAIGHT AND DRAINAGE
STA. 20610+00 TO 20635+00
PLAN

MATCH LINE ( CV-G4133 )

MATCH LINE ( CV-G4135 )

PROJECTS\701206.00_CHSRBP\00 CADD\Sheet Files\CV\G\BP-CV-G4134.dgn

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CHK

APP

BY

REV

DESCRIPTION

RECORD

PEPD

SUBMITTAL

NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1,2,3,5
STRAIGHT AND DRAINAGE
STA. 20610+00 TO 20635+00
PLAN

MATCH LINE ( CV-G4133 )

MATCH LINE ( CV-G4135 )

PROJECTS\701206.00_CHSRBP\00 CADD\Sheet Files\CV\G\BP-CV-G4134.dgn

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11/7/2017
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DATE
10/31/2017

DATE
11/7/2017

CHK

APP

BY

REV

DESCRIPTION

RECORD

PEPD

SUBMITTAL

NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1,2,3,5
STRAIGHT AND DRAINAGE
STA. 20610+00 TO 20635+00
PLAN

MATCH LINE ( CV-G4133 )

MATCH LINE ( CV-G4135 )

PROJECTS\701206.00_CHSRBP\00 CADD\Sheet Files\CV\G\BP-CV-G4134.dgn

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DATE
10/31/2017

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11/7/2017

CHK

APP

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REV

DESCRIPTION

RECORD

PEPD

SUBMITTAL

NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1,2,3,5
STRAIGHT AND DRAINAGE
STA. 20610+00 TO 20635+00
PLAN

MATCH LINE ( CV-G4133 )

MATCH LINE ( CV-G4135 )

PROJECTS\701206.00_CHSRBP\00 CADD\Sheet Files\CV\G\BP-CV-G4134.dgn

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11/7/2017
QIC.ADodge

DATE
10/31/2017

DATE
11/7/2017

CHK

APP

BY

REV

DESCRIPTION

RECORD

PEPD

SUBMITTAL
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1, 2, 3
GRADING AND DRAINAGE
STA. 20885+00 TO 20910+00
PLAN

MATCH LINE (CV-G4202)

MATCH LINE (CV-G4144)

MATCH LINE (CV-G4204)

TRAPEZOIDAL CHANNEL (CONCRETE), n = 0.013, Q = 658.55 CFS

ONSITE DITCH

OFFSITE DITCH

CONSIST DITCH

UPRR R/W

PROP CHSR R/W

PROP CHSR R/W

PART 3

PROJECT NO.

DRAWING NO.

SCALE

AS SHOWN

SHEET NO.

DATE

CHKS

APP

REV

DESCRIPTION

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QIC.ADodge
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1,2,3
GRADING AND DRAINAGE
STA. 21060+00 TO 21085+00
PLAN

MATCH LINE (CV-G4153)
MATCH LINE (CV-G4209)

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1, 2, 3
GRADING AND DRAINAGE
STA. 21135+00 TO 21160+00
PLAN

MATCH LINE (CV-G4164)

MATCH LINE (CV-G4156)

MATCH LINE (CV-G4154)

MATCH LINE (CV-G4209)

DRAINAGE

ONSITE DITCH

OFFSITE DITCH

C

CHSR SB ALIGNMENT "ALT 1,2,3"

CHSR NB ALIGNMENT "ALT 1,2,3"

PROP CHSR R/W

ON SITE DITCH

OFF SITE DITCH

• CHSR SB ALIGNMENT "ALT 1,2,3"

• CHSR NB ALIGNMENT "ALT 1,2,3"

PROP CHSR R/W

PROJECT NO.
HSR13-44

DRAWING NO.
CV-G4155

SCALE
AS SHOWN

SHEET NO.

DATE

CHECKED

APPROVED

REV.

DESCRIPTION

PROJECTS\701206.00_CHSRBP\00 CADD\Sheet Files\CV\G\BP-CV-G4155.dgn

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1/31/2017

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SIERRA HWY

BAKERSFIELD TO PALMDALE

TYPUN INTERNATIONAL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY
CALIFORNIA HIGH-SPEED RAIL PROJECT
Bakersfield to Palmdale
ALTERNATIVE 1, 2, 3
GRADING AND DRAINAGE
STA. 21160+00 TO 21185+00
PLAN

MATCH LINE (CV-G4155)
California High-Speed Rail Project
Bakersfield to Palmdale
Alternative 1, 2, 3
Grading and Drainage
STA: 21210+00 to 21235+00
Plan

Match Line (CV-G4157)

Plan (CV-G4167)
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
ALTERNATIVE 1, 2, 3
GRADING AND DRAINAGE
STA. 21210+00 TO 21235+00
PLAN

MATCH LINE (CV-G4158)

OFFSITE DITCH
OFFSET

DEIGNED 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
HSR13-44
DRAWING NO. CV-G4167
SCALE AS ShOWN
SHEET NO.

PROJECTS/701206.00_CHSRBP/00 CADD/SHEET Files/CV/G/2P-CV-G4167.dgn
10:30:08 PM 11/7/2017 QIC_ADODGE

CONTRACT NO.

BAKERSFIELD TO PALMDALE

MATCH LINE (CV-G4158)