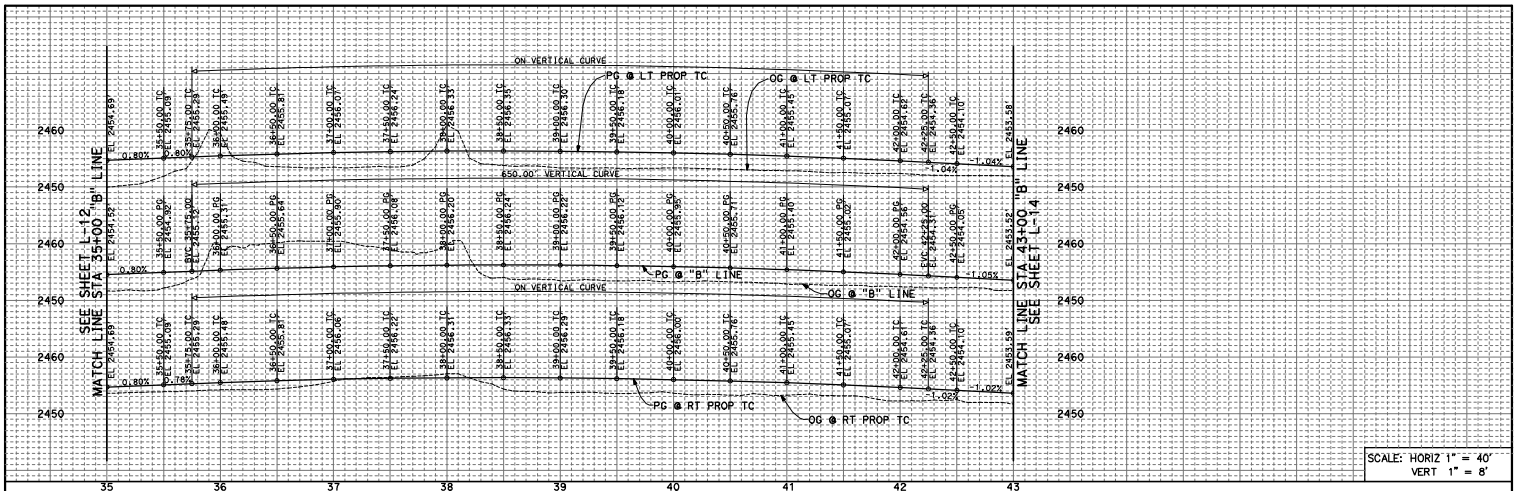
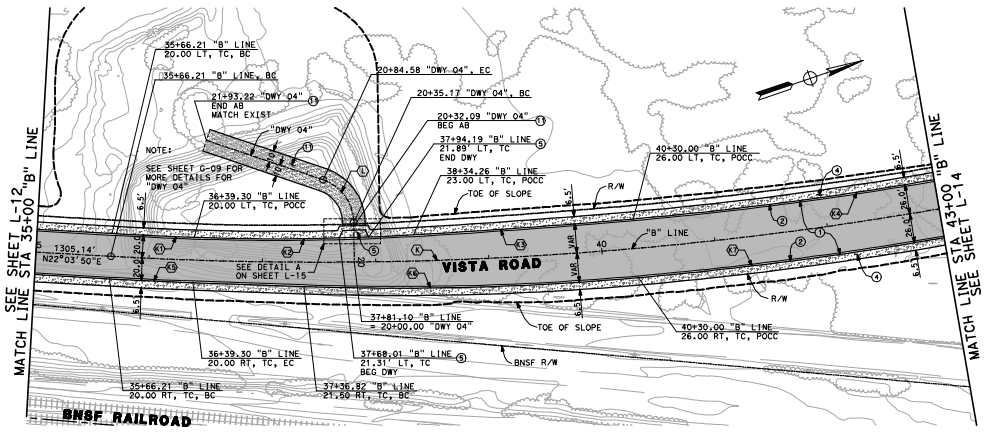


SCALE: HORIZ 1" = 40'
VERT 1" = 8'



CONSTRUCTION NOTES:

1. CONST XX' HMA OVER XX' AB (CLASS 2)
2. CONST 8" PCC CURB & GUTTER PER COUNTY STD NO. 115
3. CONST 8" PCC CURB ONLY TYPE A1 PER CALTRANS STD PLAN NO. A87A
4. CONST 4" PCC SIDEWALK PER COUNTY STD NO. 109 (WIDTH PER PLAN)
5. CONST DWY APPROACH PER COUNTY STD NO. 128
6. CONST CURB RAMP PER COUNTY STD NO. 110
7. CONST CROSS GUTTER PER COUNTY STD NO. 119
8. CONST CONC BARRIER (TYPE 26 MOD) PER DET 6, SHT C-12
9. CONST CONC BARRIER (TYPE 26 MOD) END TRANSITION PER DET 6, SHT C-12
10. CONST 8" HMA DIKE PER COUNTY STD NO. 117
11. CONST XX" AB ONLY (CLASS 2)

CURVE DATA

No.	R	Δ	L	T
(K)	3200.00'	22°29'47"	1256.44'	636.42'
(K1)	3180.00'	1°18'31"	72.63'	36.32'
(K2)	2108.62'	5°15'49"	193.71'	96.92'
(K3)	6418.79'	1°44'02"	194.24'	97.13'
(K4)	3174.00'	6°35'17"	364.96'	182.68'
(K5)	3220.00'	1°18'31"	73.55'	36.78'
(K6)	2420.00'	6°59'44"	295.47'	147.92'
(K7)	3226.00'	5°30'42"	310.34'	155.29'
(L)	40.00'	70°46'38"	49.41'	28.41'

LEGEND:

NEW ASPHALT CONCRETE

PCC PAVEMENT

0 20 40 80 120 160
SCALE: 1" = 40'

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

80% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	REVISIONS	APPR.	DATE

MARK	REVISIONS	APPR.	DATE

Don't Dig...Until You Call U.S.A. Toll Free
DIAL: 811
for the location of buried utility lines.
Don't disrupt vital services.
NO WORKING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER / DATE

FIELD CHANGES

PLANS PREPARED BY:
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501
JAMES FABER R.C.E. 45668 EXPIRES 12-31-12 X DATE

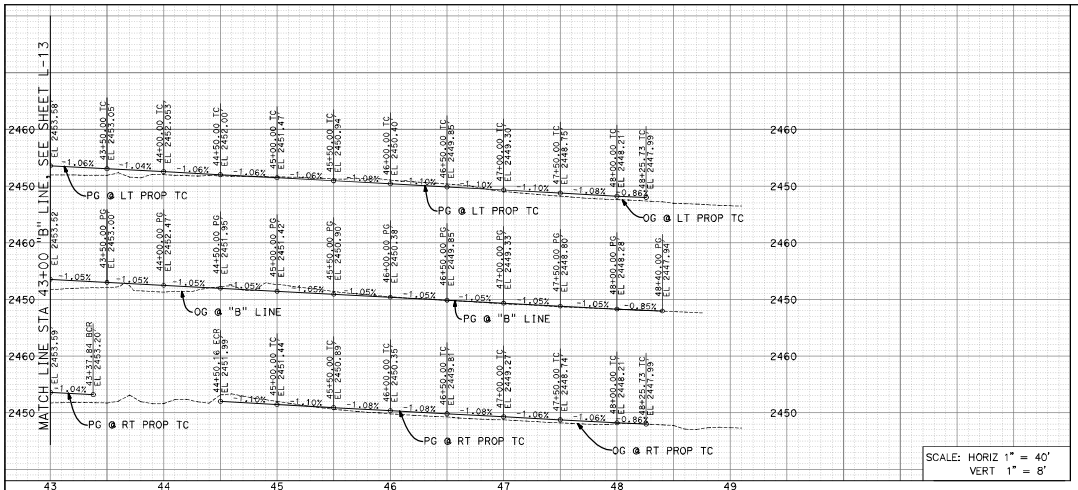
COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS
RECOMMENDED / APPROVED BY
XXXX XXXX P.E. DEPUTY DIRECTOR DATE
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

SHADOW MOUNTAIN ROAD

LAYOUT PLAN AND PROFILE
STA 35+00 "B" LINE TO 43+00 "B" LINE
AND "DWY 04"

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	L-13	25	X

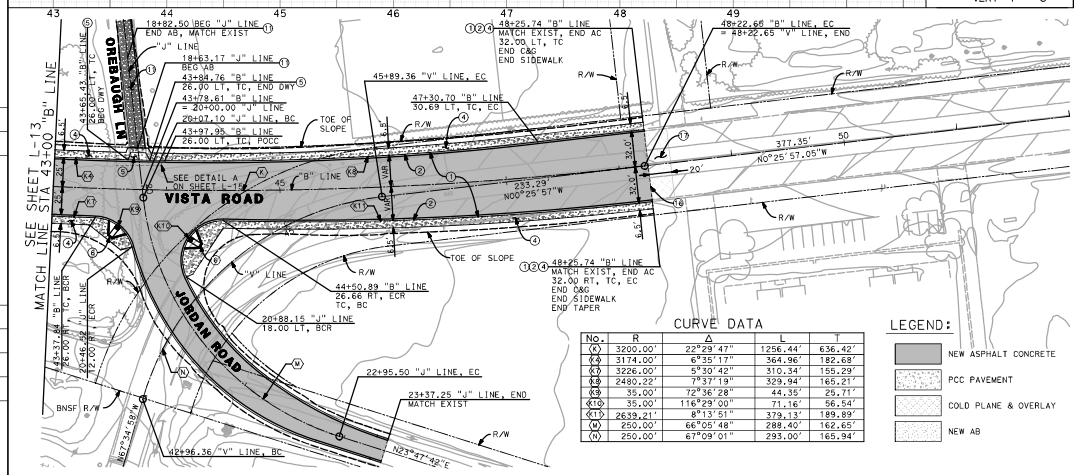
R:\0018868 Shadow Mountain 01\000_CAD\006_Civil\Sheets\25_L-13.dgn
6/22/2012



SCALE: HORIZ 1" = 40'
VERT 1" = 8'

CONSTRUCTION NOTES:

1. CONST XX' HMA OVER XX' AB (CLASS 2)
2. CONST 8" PCC CURB & GUTTER PER COUNTY STD NO. 115
3. CONST 8" PCC CURB ONLY TYPE A1 PER CALTRANS STD PLAN NO. A87A
4. CONST 4" PCC SIDEWALK PER COUNTY STD NO. 109 (WIDTH PER PLAN)
5. CONST DWY APPROACH PER COUNTY STD NO. 128
6. CONST CURB RAMP PER COUNTY STD NO. 110
7. CONST CROSS GUTTER PER COUNTY STD NO. 119
8. CONST CONC BARRIER (TYPE 26 MOD) PER DET 6, SHT C-12
9. CONST CONC BARRIER (TYPE 26 MOD) END TRANSITION PER DET 6, SHT C-12
10. CONST 8" HMA DIKE PER COUNTY STD NO. 117
11. CONST XX" AB ONLY (CLASS 2)
12. CONST METAL BEAM GUARD RAILING TRANSITION RAILING (TYPE WB) PER CALTRANS STD PLAN NO. A77J4
13. CONST FLARED END METAL BEAM GUARD RAILING TERMINAL SYSTEM PER DETAIL ON SHT C-13
14. CONST DWY APPROACH PER COUNTY STD NO. 128A
15. CONST ROCK SLOPE PROTECTION PER DET 7, SHT C-12
16. SAWCUT EXISTING PAVEMENT
17. XX' MIN COLD PLANE EXIST PAVEMENT AND OVERLAY WITH XX' MIN HMA FOR SMOOTH TRANSITION
18. CONST TRANSITION CURB PER DET 3 & 5, SHT C-10 & C-11
19. CONST XX' HMA OVER XX' AB (CLASS 2)
20. CONST TRANSITION CURB & GUTTER PER DET 8, SHT C-12



CURVE DATA

No.	R	Δ	L	T
K	3200.00'	22°29'47"	1256.44'	636.42'
K4	3174.00'	6°35'17"	364.96'	182.68'
K7	3226.00'	5°30'42"	310.34'	155.29'
K9	2480.22'	7°37'19"	329.94'	165.21'
K9	35.00'	72°36'28"	44.35'	25.71'
K10	35.00'	116°29'00"	71.16'	56.54'
K11	2639.21'	8°13'51"	379.13'	189.89'
M	250.00'	66°05'48"	288.40'	162.65'
N	250.00'	67°09'01"	293.00'	165.94'

LEGEND:

- NEW ASPHALT CONCRETE
- PCC PAVEMENT
- COLD PLANE & OVERLAY
- NEW AB

0 20 40 80 120 160
SCALE: 1" = 40'

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

80% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	REVISIONS	APPR.	DATE

Don't Dig...Until You Call U.S.A. Toll Free DIAL: 811 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER DATE

FIELD CHANGES

PLANS PREPARED BY
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501

JAMES FABER R.C.E. 45668 EXPIRES 12-31-12 X DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

RECOMMENDED / APPROVED BY

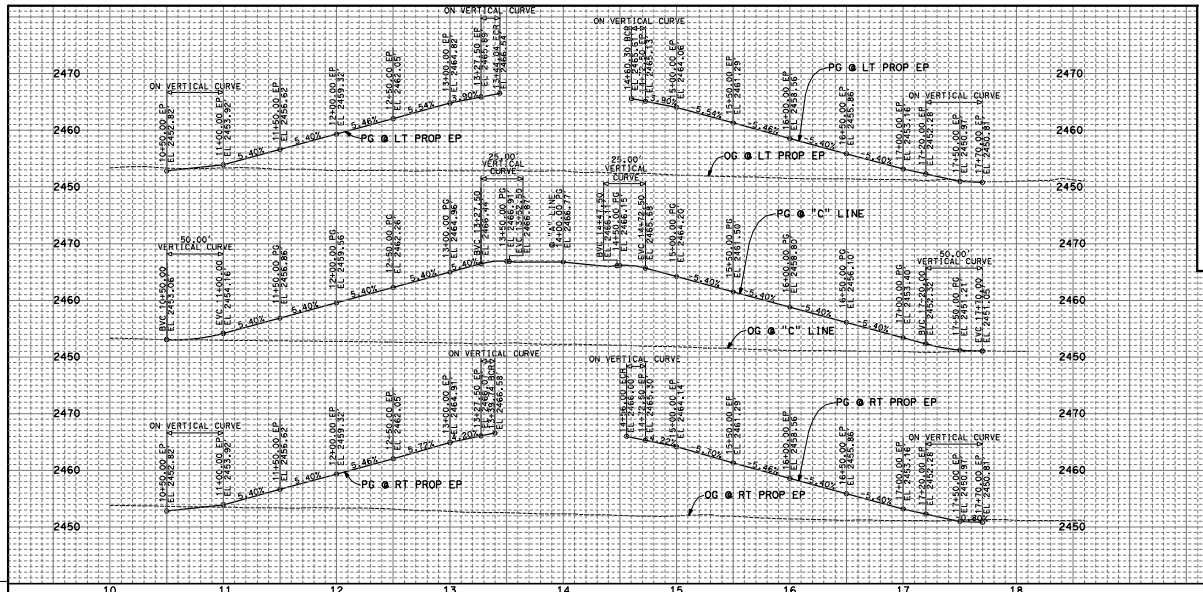
XXXX XXXX P.E. DEPUTY DIRECTOR DATE

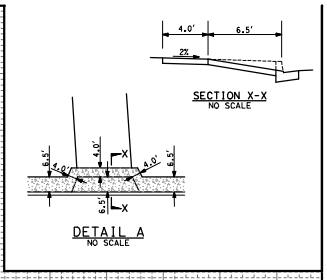
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

SHADOW MOUNTAIN ROAD
LAYOUT PLAN AND PROFILE
STA 43+00 "B" LINE TO 48+25.74 "B" LINE
STA 18+82.50 "J" LINE TO 23+37.25 "J" LINE
STA 39+86.45 "V" LINE TO 48+22.65 "V" LINE

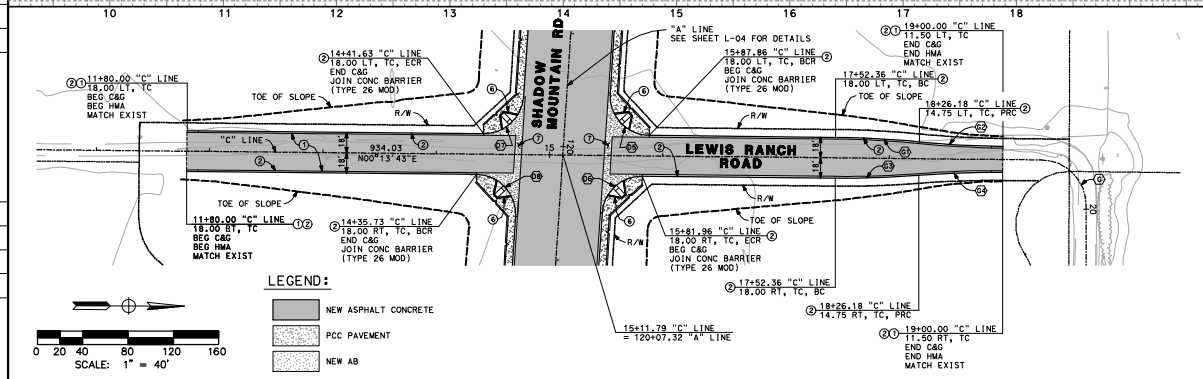
J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	L-14	26	X

R:\60188668 Shadow Mountain 05\000_CAD\006_Civil\Sheets\26_L-14.dgn
8/28/2012





SCALE: HORIZ 1" = 40'
VERT 1" = 8'



CONSTRUCTION NOTES:

1. CONST XX' HMA OVER XX' AB (CLASS 2)
2. CONST 8" PCC CURB & GUTTER PER COUNTY STD NO. 115
3. CONST 8" PCC CURB ONLY TYPE A1 PER CALTRANS STD PLAN NO. A87A
4. CONST 4" PCC SIDEWALK PER COUNTY STD NO. 109 (WIDTH PER PLAN)
5. CONST DWY APPROACH PER COUNTY STD NO. 128
6. CONST CURB RAMP PER COUNTY STD NO. 110
7. CONST CROSS GUTTER PER COUNTY STD NO. 119

CURVE DATA

No.	R	Δ	L	T
C5	35.00'	93°11'24"	56.93'	37.00'
C6	35.00'	86°48'36"	53.03'	33.10'
C7	35.00'	86°48'36"	53.03'	33.10'
C8	35.00'	93°11'24"	56.93'	37.00'
C1	40.00'	89°34'55"	62.54'	39.71'
C1	840'	05°02'30"	73.92'	36.98'
C2	840'	05°02'30"	73.92'	36.98'
C3	840'	05°02'30"	73.92'	36.98'
C4	840'	05°02'30"	73.92'	36.98'

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

80% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	REVISIONS	APPR.	DATE

MARK	REVISIONS	APPR.	DATE

Don't Dig...Until You Call U.S.A. Toll Free DIAL: 811 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER DATE

FIELD CHANGES

PLANS PREPARED BY:
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501
JAMES FABER R.C.E. 45668 EXPIRES 12-31-12 X DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS
RECOMMENDED / APPROVED BY
XXXX XXXX P.E. DEPUTY DIRECTOR DATE
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

SHADOW MOUNTAIN ROAD
LAYOUT PLAN AND PROFILE
STA 10+00 "C" LINE TO 19+00 "C" LINE

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	L-15	27	X

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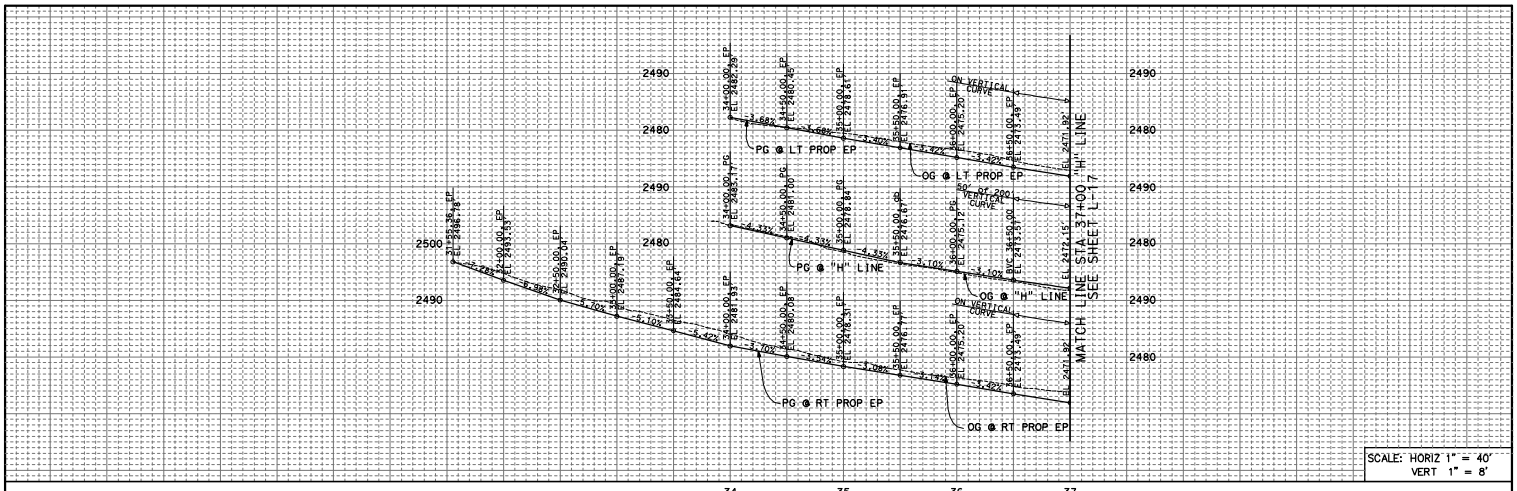
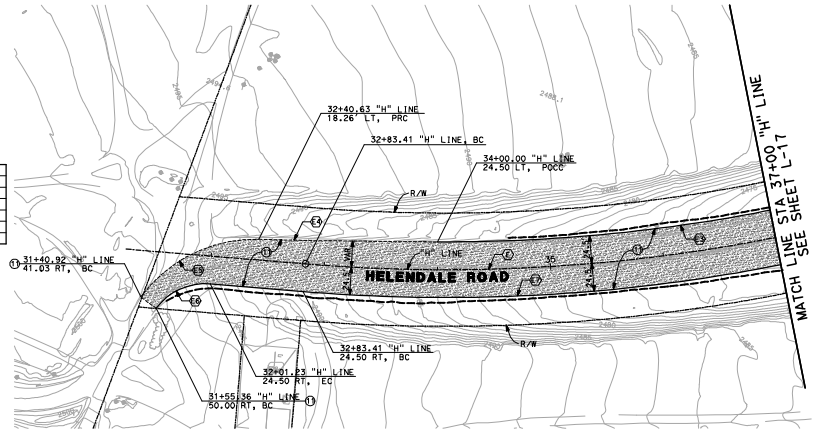
6/22/2012



SCALE: HORIZ 1" = 40'
VERT 1" = 8'



CURVE DATA

No.	R	Δ	L	T
(E)	1500.00'	27°22'18"	716.59'	365.27'
(E3)	1475.50'	14°31'28"	374.04'	188.03'
(E4)	8010.37'	1°07'41"	157.72'	78.86'
(E5)	125.99'	54°49'10"	120.55'	65.34'
(E6)	54.00'	58°08'40"	54.80'	30.02'
(E7)	1524.50'	18°58'41"	504.96'	254.81'

0 20 40 80 120 160
SCALE: 1" = 40'

CONSTRUCTION NOTES:

1. CONST XX' HMA OVER XX' AB (CLASS 2)
2. CONST 8" PCC CURB & GUTTER PER COUNTY STD NO. 115
3. CONST 8" PCC CURB ONLY TYPE A1 PER CALTRANS STD PLAN NO. A87A
4. CONST 4" PCC SIDEWALK PER COUNTY STD NO. 109 (WIDTH PER PLAN)
5. CONST DWY APPROACH PER COUNTY STD NO. 128
6. CONST CURB RAMP PER COUNTY STD NO. 110
7. CONST CROSS GUTTER PER COUNTY STD NO. 119
8. CONST CONC BARRIER (TYPE 26 MOD) PER DET 6, SHT C-12
9. CONST CONC BARRIER (TYPE 26 MOD) END TRANSITION PER DET 6, SHT C-12
10. CONST 8" HMA DIKE PER COUNTY STD NO. 117
11. CONST XX" AB ONLY (CLASS 2)
12. CONST METAL BEAM GUARD RAILING TRANSITION RAILING (TYPE WB) PER CALTRANS STD PLAN NO. A77J4
13. CONST FLARED END METAL BEAM GUARD RAILING TERMINAL SYSTEM PER DETAIL ON SHT C-13
14. CONST DWY APPROACH PER COUNTY STD NO. 128A
15. CONST ROCK SLOPE PROTECTION PER DET 7, SHT C-12
16. SAWCUT EXISTING PAVEMENT
17. XX' MIN COLD PLANE EXIST PAVEMENT AND OVERLAY WITH XX' MIN HMA FOR SMOOTH TRANSITION
18. CONST TRANSITION CURB PER DET 3 & 5, SHT C-10 & C-11
19. CONST XX' HMA OVER XX' AB (CLASS 2)
20. CONST TRANSITION CURB & GUTTER PER DET 8, SHT C-12
21. CONST METAL BEAM GUARD RAILING PER CALTRANS STD PLAN NO. A77A1
22. INSTALL METAL BEAM GUARD RAILING END ANCHOR ASSEMBLY (TYPE SFT) PER CALTRANS STD PLAN NO. A77H1
23. CONST CONC BARRIER WITH CHAIN LINK RAILING PER DET 9 SHT C-12

LEGEND:

NEW AB

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

80% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	DESCRIPTION	APPR.	DATE

REVISIONS

MARK	DESCRIPTION	APPR.	DATE

REVISIONS

Don't Dig...Until You Call U.S.A. Toll Free DIAL# 811 for the location of buried utility lines. Don't disrupt vital services. NO WORKING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER / DATE

FIELD CHANGES

PLANS PREPARED BY:
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501

JAMES FABER R.C.E. 45668 EXPIRES 12-31-12 X DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

RECOMMENDED / APPROVED BY

XXXX XXXX P.E. DEPUTY DIRECTOR DATE

XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

SHADOW MOUNTAIN ROAD

LAYOUT PLAN AND PROFILE
STA 31+40.92 "H" LINE TO 37+00 "H" LINE

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	L-16	28	X

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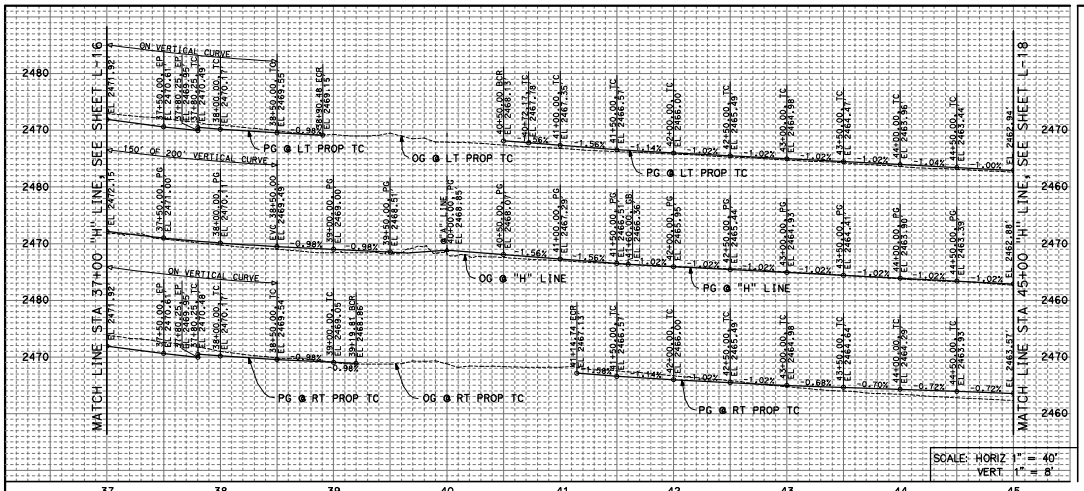
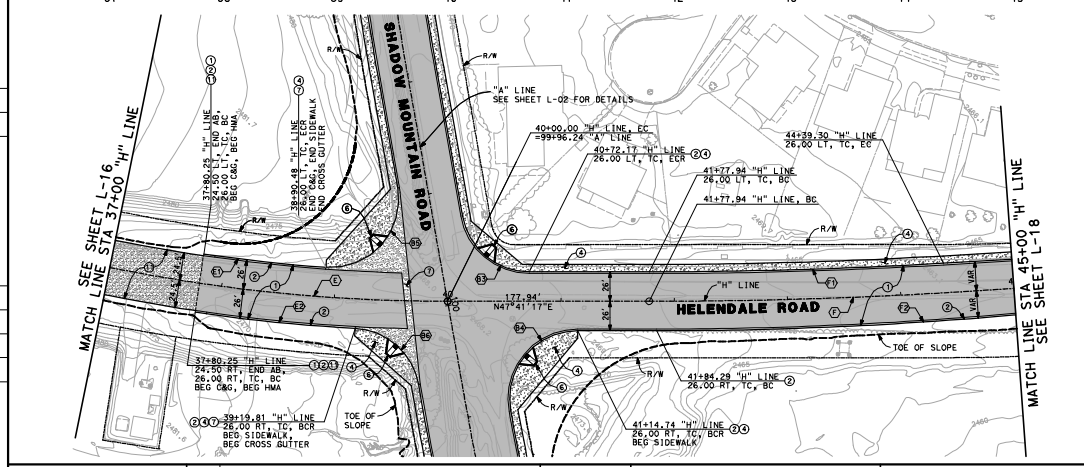
6/22/2012





CONSTRUCTION NOTES:

1. CONST XX' HMA OVER XX' AB (CLASS 2)
2. CONST 8" PCC CURB & GUTTER PER COUNTY STD NO. 115
3. CONST 8" PCC CURB ONLY TYPE A1 PER CALTRANS STD PLAN NO. A87A
4. CONST 4" PCC SIDEWALK PER COUNTY STD NO. 109 (WIDTH PER PLAN)
5. CONST DWY APPROACH PER COUNTY STD NO. 128
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11. CONST XX" AB ONLY (CLASS 2)
12. CONST METAL BEAM GUARD RAILING TRANSITION RAILING (TYPE WB) PER CALTRANS STD PLAN NO. A77J4
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14. CONST DWY APPROACH PER COUNTY STD NO. 128A
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18. CONST TRANSITION CURB PER DET 3 & 5, SHT C-10 & C-11
19. CONST XX' HMA OVER XX' AB (CLASS 2)
20. CONST TRANSITION CURB & GUTTER PER DET 8, SHT C-12
21. CONST METAL BEAM GUARD RAILING PER CALTRANS STD PLAN NO. A77A1
22. INSTALL METAL BEAM GUARD RAILING END ANCHOR ASSEMBLY (TYPE SFT) PER CALTRANS STD PLAN NO. A77H1
23. CONST CONC BARRIER WITH CHAIN LINK RAILING PER DET 9 SHT C-12

CURVE DATA

No.	R	Δ	L	T
(B3)	60.00'	80°00'14"	83.78'	50.35'
(B4)	60.00'	100°23'09"	105.12'	72.00'
(B5)	60.00'	104°10'46"	109.10'	77.04'
(B6)	60.00'	76°56'26"	80.57'	(97.68')
(C)	1500.00'	27°22'18"	716.59'	365.27'
(E)	1474.00'	4°12'38"	108.32'	54.18'
(E2)	1526.00'	5°19'50"	141.97'	71.04'
(F)	4500.00'	8°49'56"	693.68'	347.53'
(F1)	4474.00'	3°19'40"	259.85'	129.96'
(F2)	3600.00'	8°49'56"	554.94'	278.02'

LEGEND:

NEW ASPHALT CONCRETE

NEW AB

0 20 40 80 120 160

SCALE: 1" = 40'

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

MARK	REVISIONS	APPR.	DATE

MARK	REVISIONS	APPR.	DATE

Don't Dig...Until You Call U.S.A. Toll Free DIAL: 811 for the location of buried utility lines. Don't disrupt vital services. NO WORKING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER DATE

FIELD CHANGES

PLANS PREPARED BY:
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501

JAMES FABER R.C.E. 45668 EXPIRES 12-31-12 X DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

RECOMMENDED / APPROVED BY

XXXX XXXX P.E. DEPUTY DIRECTOR DATE

XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

SHADOW MOUNTAIN ROAD

LAYOUT PLAN AND PROFILE
STA 37+00 "H" LINE TO 45+00 "H" LINE

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	L-17	29	X

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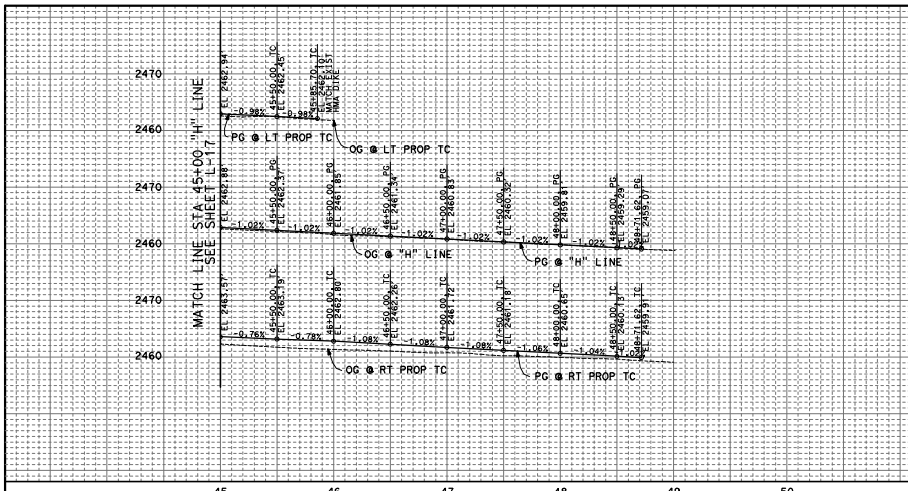
6/22/2012

NOT FOR CONSTRUCTION - FOR INTERNAL REVIEW ONLY



CONSTRUCTION NOTES:

1. CONST XX' HMA OVER XX' AB (CLASS 2)
2. CONST 8" PCC CURB & GUTTER PER COUNTY STD NO. 115
3. CONST 8" PCC CURB ONLY TYPE A1 PER CALTRANS STD PLAN NO. A87A
4. CONST 4" PCC SIDEWALK PER COUNTY STD NO. 109 (WIDTH PER PLAN)
5. CONST DWY APPROACH PER COUNTY STD NO. 128
6. CONST CURB RAMP PER COUNTY STD NO. 110
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8. CONST CONC BARRIER (TYPE 26 MOD) PER DET 6, SHT C-12
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10. CONST 8" HMA DIKE PER COUNTY STD NO. 117
11. CONST XX" AB ONLY (CLASS 2)
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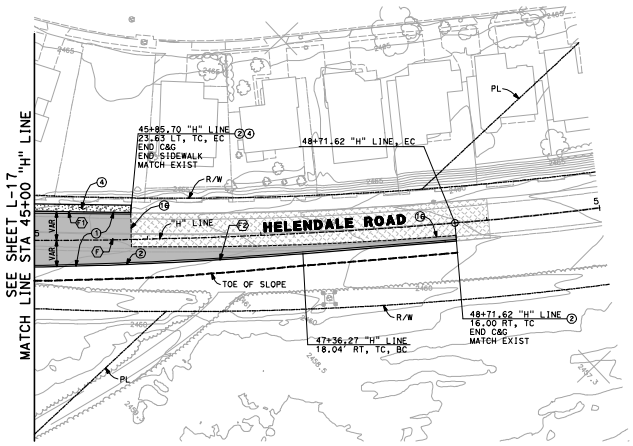
14. CONST DWY APPROACH PER COUNTY STD NO. 128A
15. CONST ROCK SLOPE PROTECTION PER DET 7, SHT C-12
16. SAWCUT EXISTING PAVEMENT
17. XX' MIN COLD PLANE EXIST PAVEMENT AND OVERLAY WITH XX' MIN HMA FOR SMOOTH TRANSITION
18. CONST TRANSITION CURB PER DET 3 & 5, SHT C-10 & C-11
19. CONST XX' HMA OVER XX' AB (CLASS 2)
20. CONST TRANSITION CURB & GUTTER PER DET 8, SHT C-12
21. CONST METAL BEAM GUARD RAILING PER CALTRANS STD PLAN NO. A77A1
22. INSTALL METAL BEAM GUARD RAILING END ANCHOR ASSEMBLY (TYPE SFT) PER CALTRANS STD PLAN NO. A77H1
23. CONST CONC BARRIER WITH CHAIN LINK RAILING PER DET 9 SHT C-12

SCALE: HORIZ 1" = 40'
VERT 1" = 8'



CURVE DATA

No.	R	Δ	L	T
(C1)	4500.00'	8°49'56"	693.68'	347.53'
(C2)	4474.00'	3°19'40"	259.85'	129.96'
(C3)	3600.00'	8°49'56"	554.94'	278.02'

LEGEND:

- NEW ASPHALT CONCRETE
- NEW AB
- NEW AB OVERLAY

0 20 40 80 120 160
SCALE: 1" = 40'

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

80% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	DATE	APPR.	REVISIONS

MARK	DATE	APPR.	REVISIONS

Don't Dig...Until You Call U.S.A. Toll Free DIAL# 811 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER DATE

FIELD CHANGES

PLANS PREPARED BY:
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501

JAMES FABER R.C.E. 45668 EXPIRES 12-31-12 X DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

RECOMMENDED / APPROVED BY

XXXX XXXX P.E. DEPUTY DIRECTOR DATE

XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

SHADOW MOUNTAIN ROAD

LAYOUT PLAN AND PROFILE
STA 45+00 "H" LINE TO 48+71.62 "H" LINE

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	L-18	30	X

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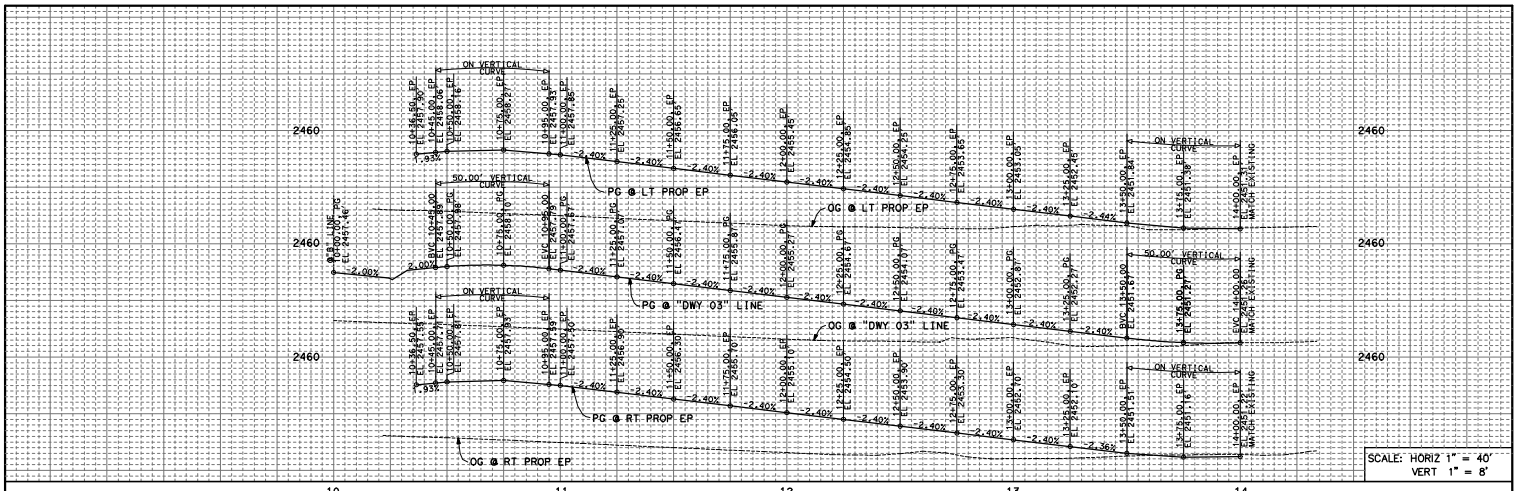
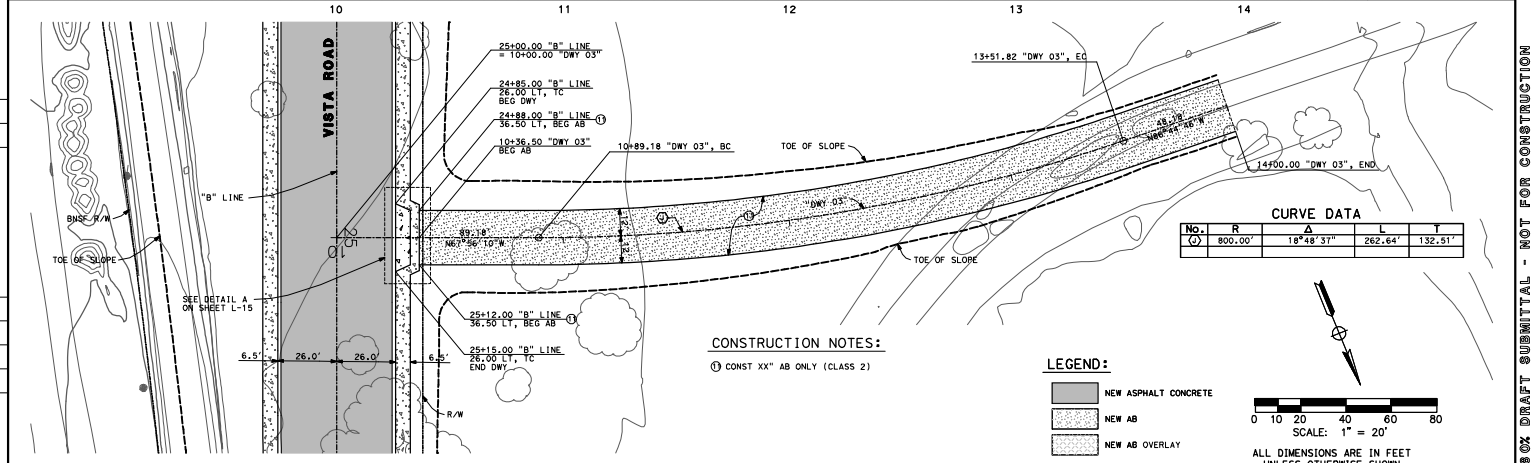
6/22/2012





80% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	REVISIONS	APPR.	DATE

MARK	REVISIONS	APPR.	DATE

Don't Dig...Until You Call U.S.A. Toll Free DIAL# 811 for the location of buried utility lines. Don't disrupt vital services. NO MORNING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER DATE

FIELD CHANGES

PLANS PREPARED BY:
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501
JAMES FABER R.C.E. 45668 EXPIRES 12-31-12 X DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS
RECOMMENDED / APPROVED BY
XXXX XXXX P.E. DEPUTY DIRECTOR DATE
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

SHADOW MOUNTAIN ROAD
LAYOUT PLAN AND PROFILE
STA 10+00 "DWY 03" TO 14+00 "DWY 03"

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	L-19	31	X

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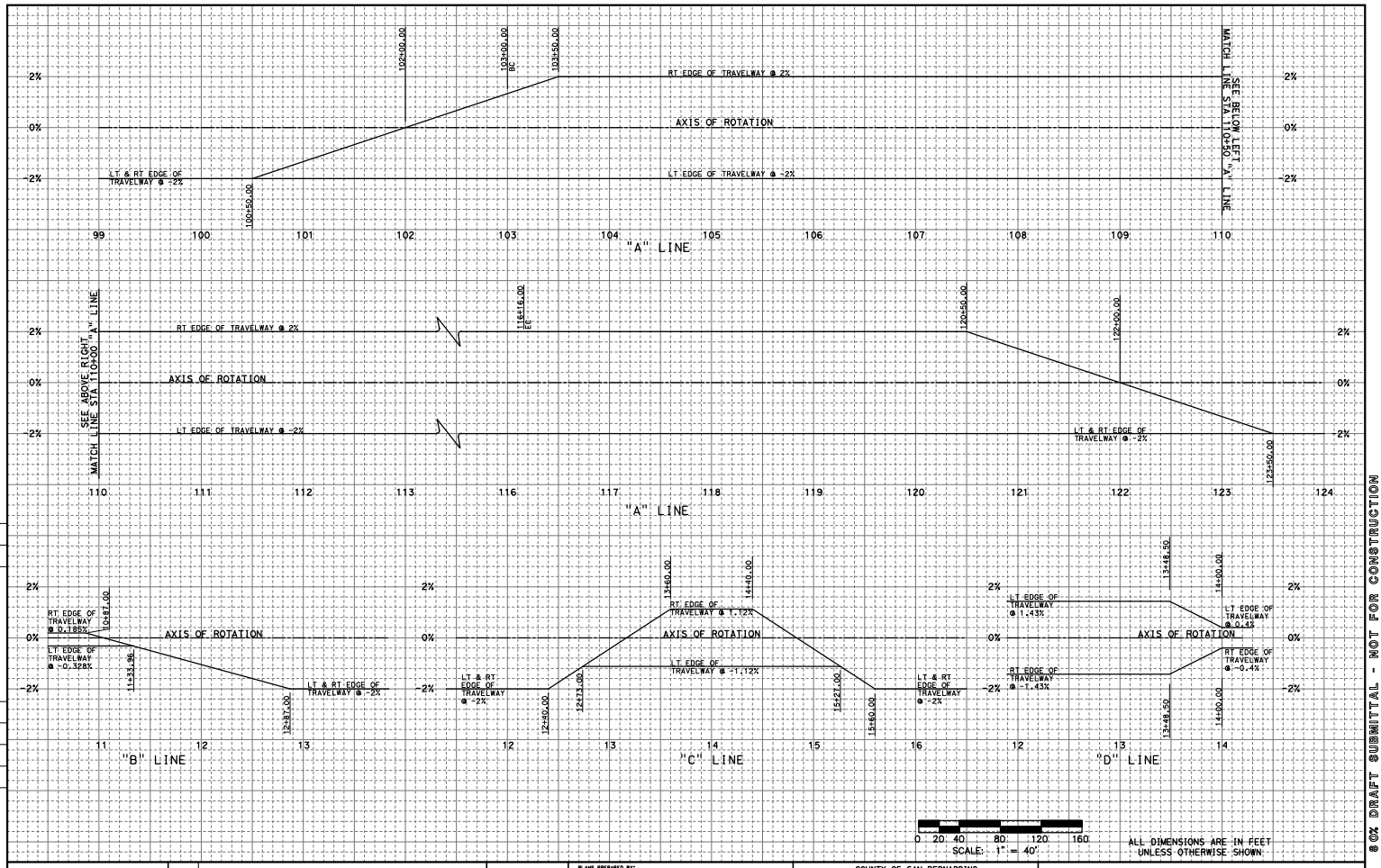
6/22/2012



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80% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	REVISIONS	APPR.	DATE

MARK	REVISIONS	APPR.	DATE

Don't Dig...Until You Call U.S.A. Toll Free DIAL: 811 for the location of buried utility lines. Don't disrupt vital services. NO WORKING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER DATE

FIELD CHANGES

PLANS PREPARED BY:
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501

JAMES FABER R.C.E. 45668 EXPIRES 12-31-12 X DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

RECOMMENDED / APPROVED BY

XXXX XXXX P.E. DEPUTY DIRECTOR DATE

XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

SHADOW MOUNTAIN ROAD

SUPERELEVATION DIAGRAM

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	SE-01	32	X

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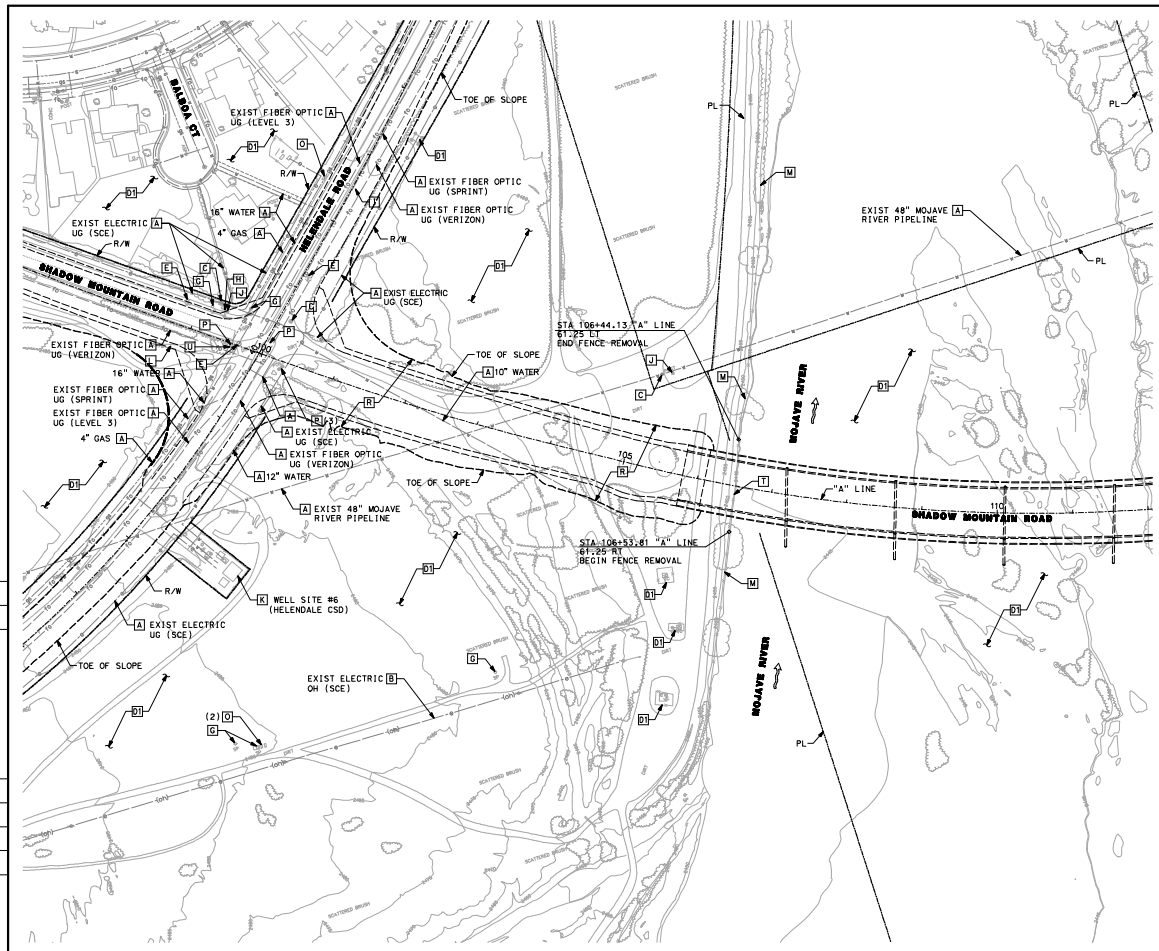
6/22/2012



DEMOLITION NOTES:

- A PROTECT EXIST UNDERGROUND UTILITIES IN PLACE
- B PROTECT EXIST OVERHEAD UTILITIES IN PLACE
- C PROTECT EXIST MANHOLE IN PLACE
- D PROTECT EXIST BLOWOFF
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- B1 RELOCATE EXIST SIGN/POST
- C1 RELOCATE EXIST VAULT
- D1 KEEP IN PLACE

0 30 60 120 180 240
SCALE: 1" = 60'

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

80% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	REVISIONS	APPR.	DATE

MARK	REVISIONS	APPR.	DATE

Don't Dig...Until You Call U.S.A. Toll Free DIAL# 811 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

MARK	CHANGES		
	NO CHANGES	RESIDENT ENGINEER	DATE

FIELD CHANGES

PLANS PREPARED BY:
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501

JAMES FABER R.C.E. 45668 EXPIRES 12-31-12 X DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

RECOMMENDED / APPROVED BY

XXXX XXXX P.E. DEPUTY DIRECTOR DATE

XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

SHADOW MOUNTAIN ROAD

CONSTRUCTION DETAILS
"A" LINE DEMOLITION

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	C-01	33	X

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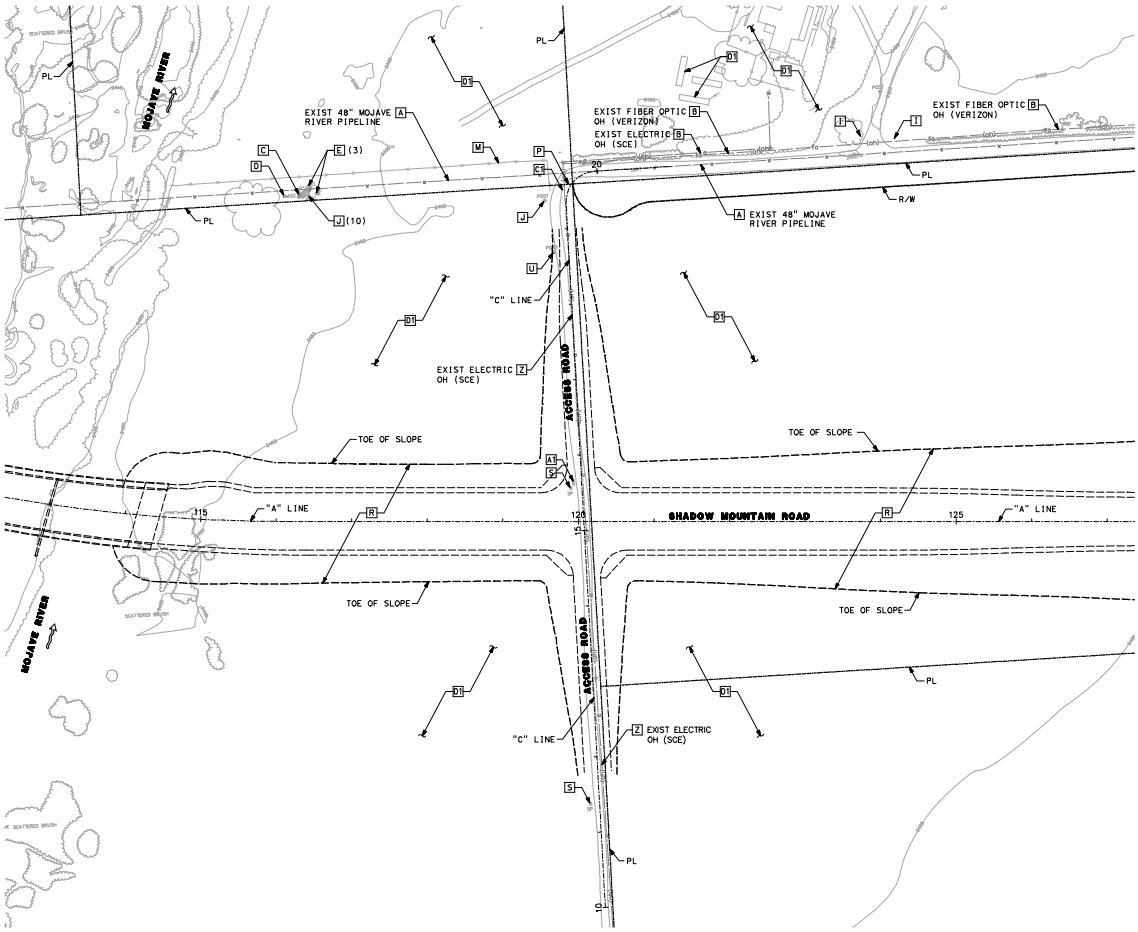
6/22/2012



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- C1 RELOCATE EXIST VAULT
- D1 KEEP IN PLACE

0 30 60 120 180 240
SCALE: 1" = 60'

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

80% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	REVISIONS	APPR.	DATE

MARK	REVISIONS	APPR.	DATE

Don't Dig...Until You Call U.S.A. Toll Free DIAL# 811 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

MARK	CHANGES
	NO CHANGES

RESIDENT ENGINEER _____ DATE _____

FIELD CHANGES

PLANS PREPARED BY:
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501

JAMES FABER R.C.E. 45668 EXPIRES 12-31-12 X DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

RECOMMENDED / APPROVED BY

XXXX XXXX P.E. DEPUTY DIRECTOR _____ DATE _____

XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS _____ DATE _____

SHADOW MOUNTAIN ROAD

CONSTRUCTION DETAILS
"A" LINE AND "C" LINE DEMOLITION

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	C-02	34	X

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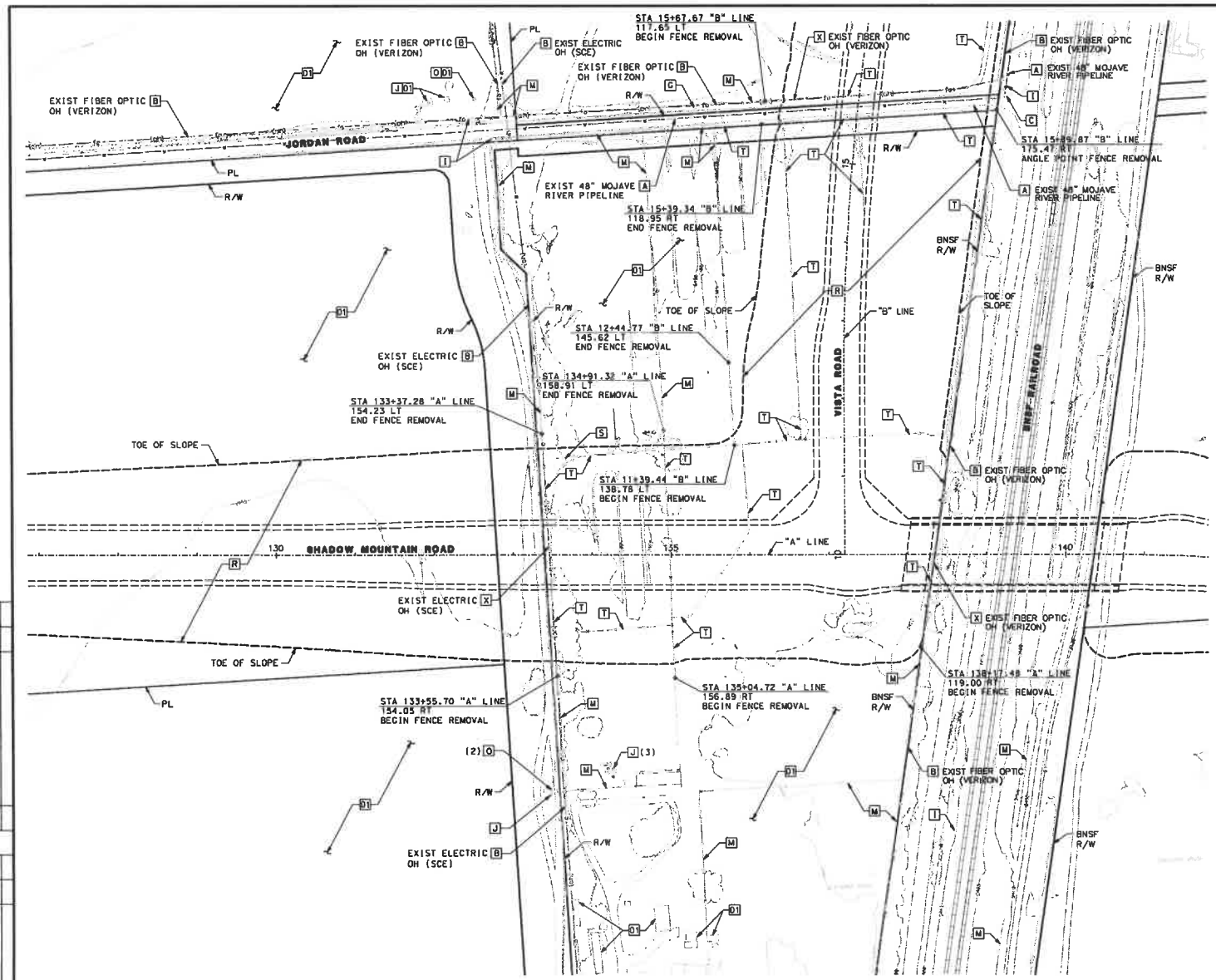
6/22/2012



DEMOLITION NOTES:

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- C1 RELOCATE EXIST VAULT
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NOTE:

REMOVALS WITHIN THE RAILROAD RIGHT OF WAY SHALL BE CONDUCTED BY BNSF.

0 30 60 120 180 240
SCALE: 1" = 60'

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

60% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	DATE	APPR.	REVISIONS

MARK	DATE	APPR.	REVISIONS

Don't Dig...Until You Call U.S.A. Toll Free
DIAL: 811
for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER DATE

FIELD CHANGES

PLANS PREPARED BY:
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501
JAMES FABER R.C.E. 49668 EXPIRES 12-31-12 X DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS
RECOMMENDED / APPROVED BY
XXXX XXXX P.E. DEPUTY DIRECTOR DATE
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

SHADOW MOUNTAIN ROAD
CONSTRUCTION DETAILS
"A" LINE AND "B" LINE DEMOLITION

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	C-03	35	X

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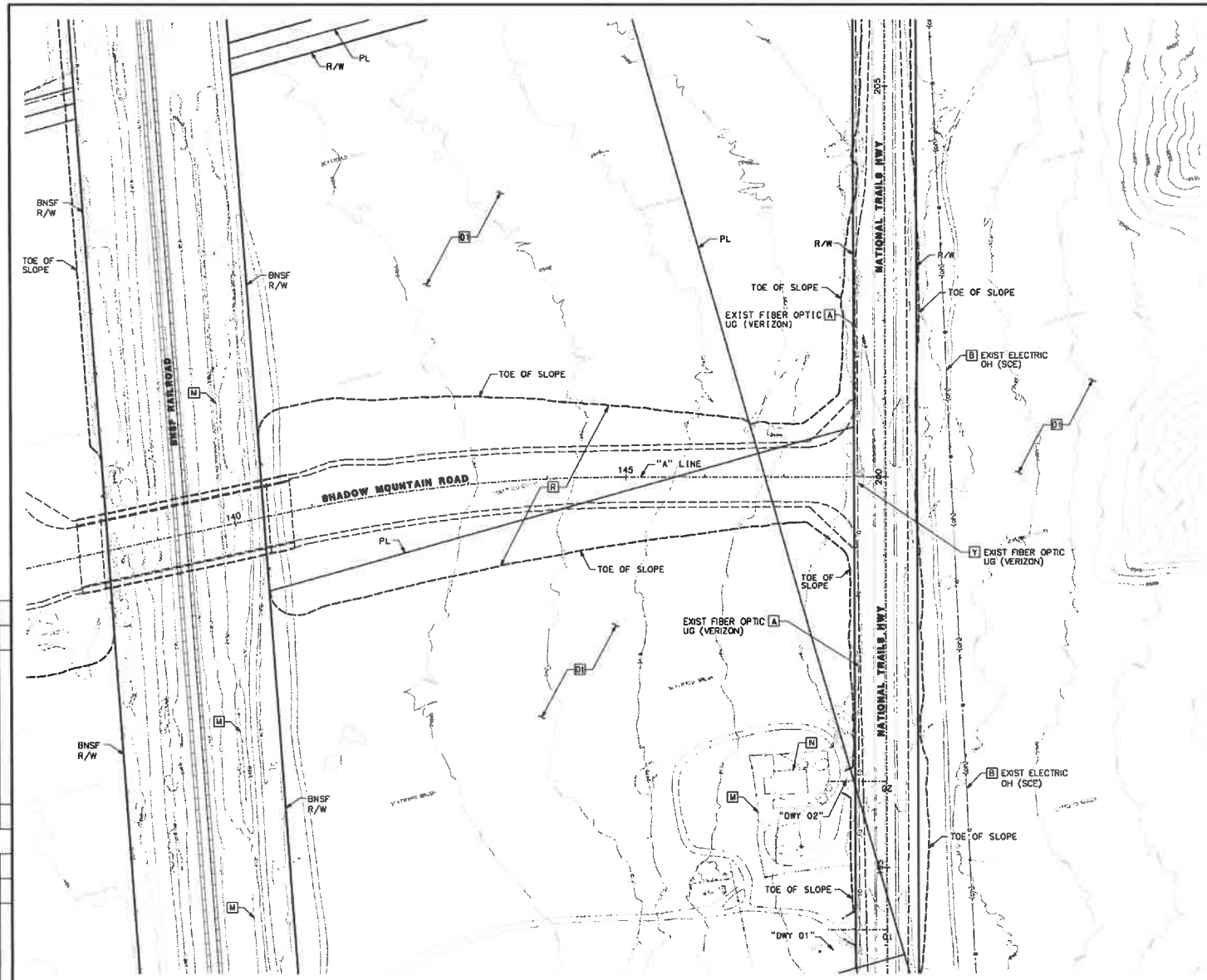
6/22/2012



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NOTE:

REMOVALS WITHIN THE RAILROAD RIGHT OF WAY SHALL BE CONDUCTED BY BNSF.

0 30 60 120 180 240
SCALE: 1" = 60'

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

80% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	DATE	REVISIONS	APPR.

MARK	DATE	REVISIONS	APPR.

Don't Dig...Until You Call U.S.A. Toll Free
DIAL: 811
for the location of buried utility lines.
Don't attempt that on your own.
TWO WORKING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER — DATE

FIELD CHANGES

PLANS PREPARED BY:
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501
JAMES FARMER R.C.E. 49686 EXPIRES 12-31-12 — DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS
RECOMMENDED / APPROVED BY
XXXX XXXX P.E. DEPUTY DIRECTOR — DATE
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS — DATE

SHADOW MOUNTAIN ROAD
CONSTRUCTION DETAILS
"A" LINE DEMOLITION

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	C-04	36	X

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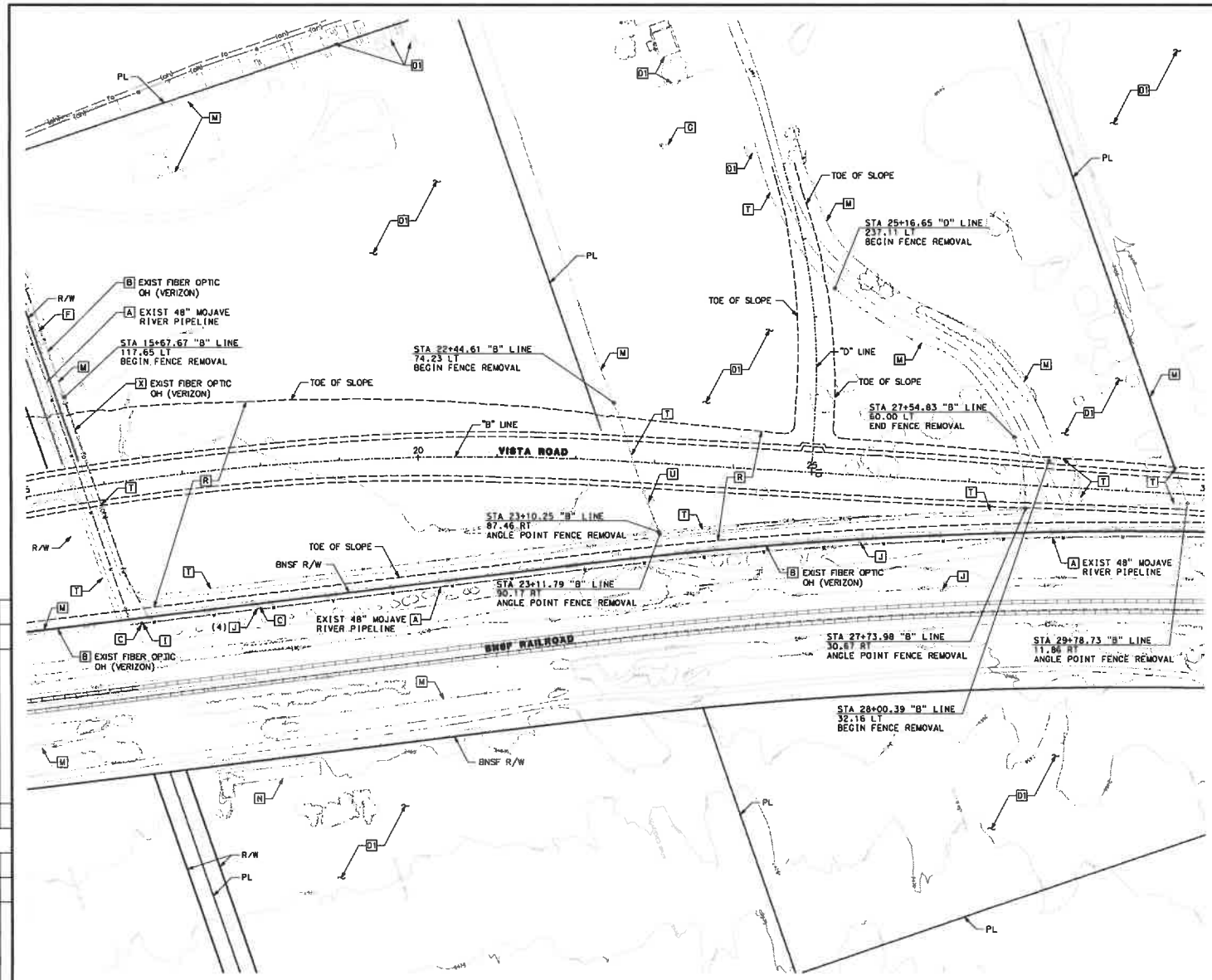
6/22/2012



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NOTE:

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0 30 60 120 180 240
SCALE: 1" = 60'

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60% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	DATE	APPR.	REVISIONS

MARK	DATE	APPR.	REVISIONS

Don't Dig...until You Call U.S.A. Toll Free
DIAL# 811
for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER DATE

FIELD CHANGES

PLANS PREPARED BY
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501

JAMES FABER R.C.E. 45646 EXPIRES 12-31-12 DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

RECOMMENDED / APPROVED BY

XXXX XXXX P.E. DEPUTY DIRECTOR DATE

XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

SHADOW MOUNTAIN ROAD

CONSTRUCTION DETAILS
"B" LINE AND "D" LINE DEMOLITION

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	C-05	37	X

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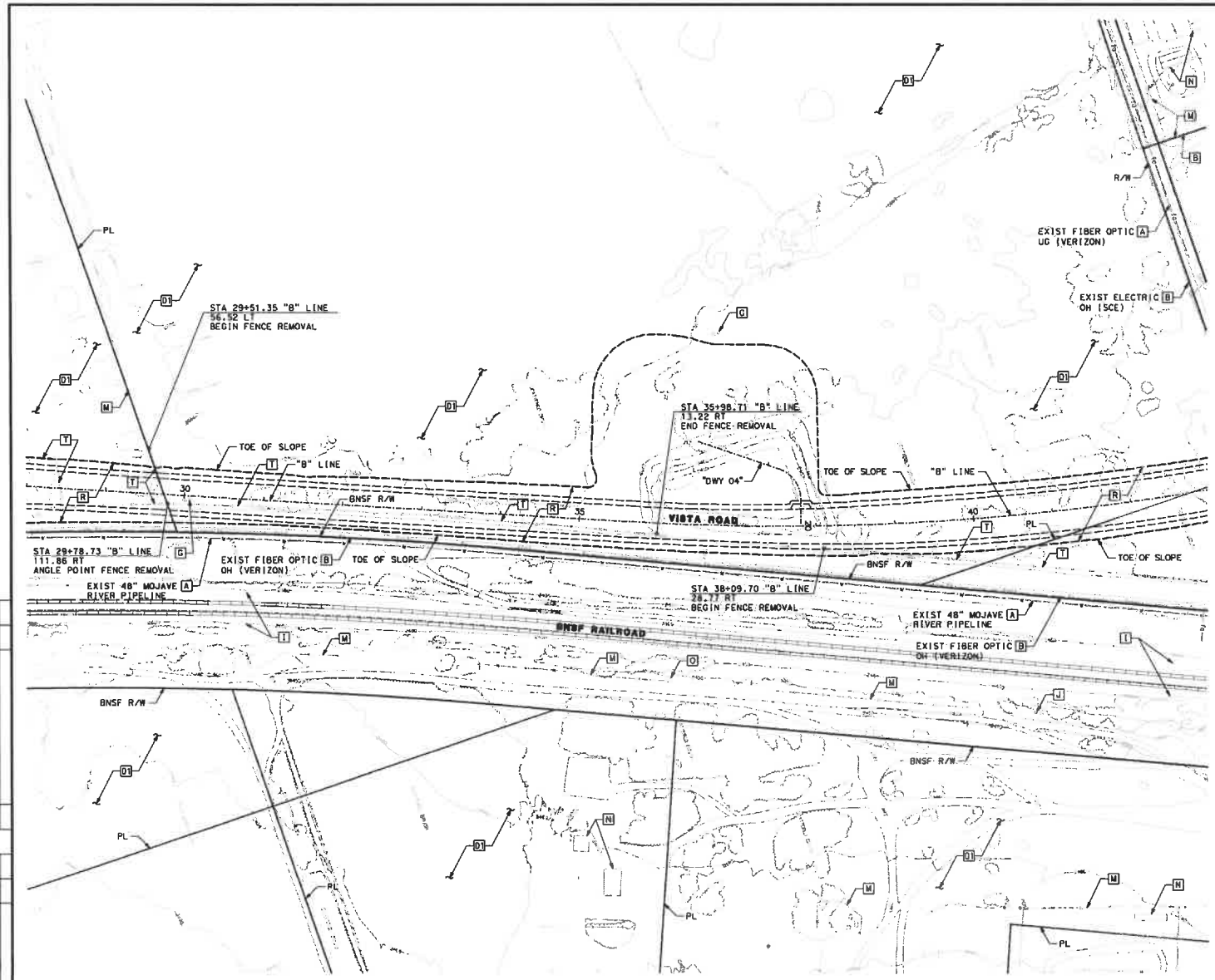
6/22/2012



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0 30 60 120 180 240
SCALE: 1" = 60'

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MARK	DATE	APPR.	REVISIONS

MARK	DATE	APPR.	REVISIONS

Don't Dig...Until You Call U.S.A. Toll Free
DIAL: 811
for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER DATE

FIELD CHANGES

PLANS PREPARED BY:
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501
JAMES FABER R.C.E. 45646 EXPIRES 12-31-12 DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS
RECOMMENDED / APPROVED BY
XXXX XXXX P.E. DEPUTY DIRECTOR DATE
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

SHADOW MOUNTAIN ROAD
CONSTRUCTION DETAILS
"B" LINE DEMOLITION

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	C-06	38	X

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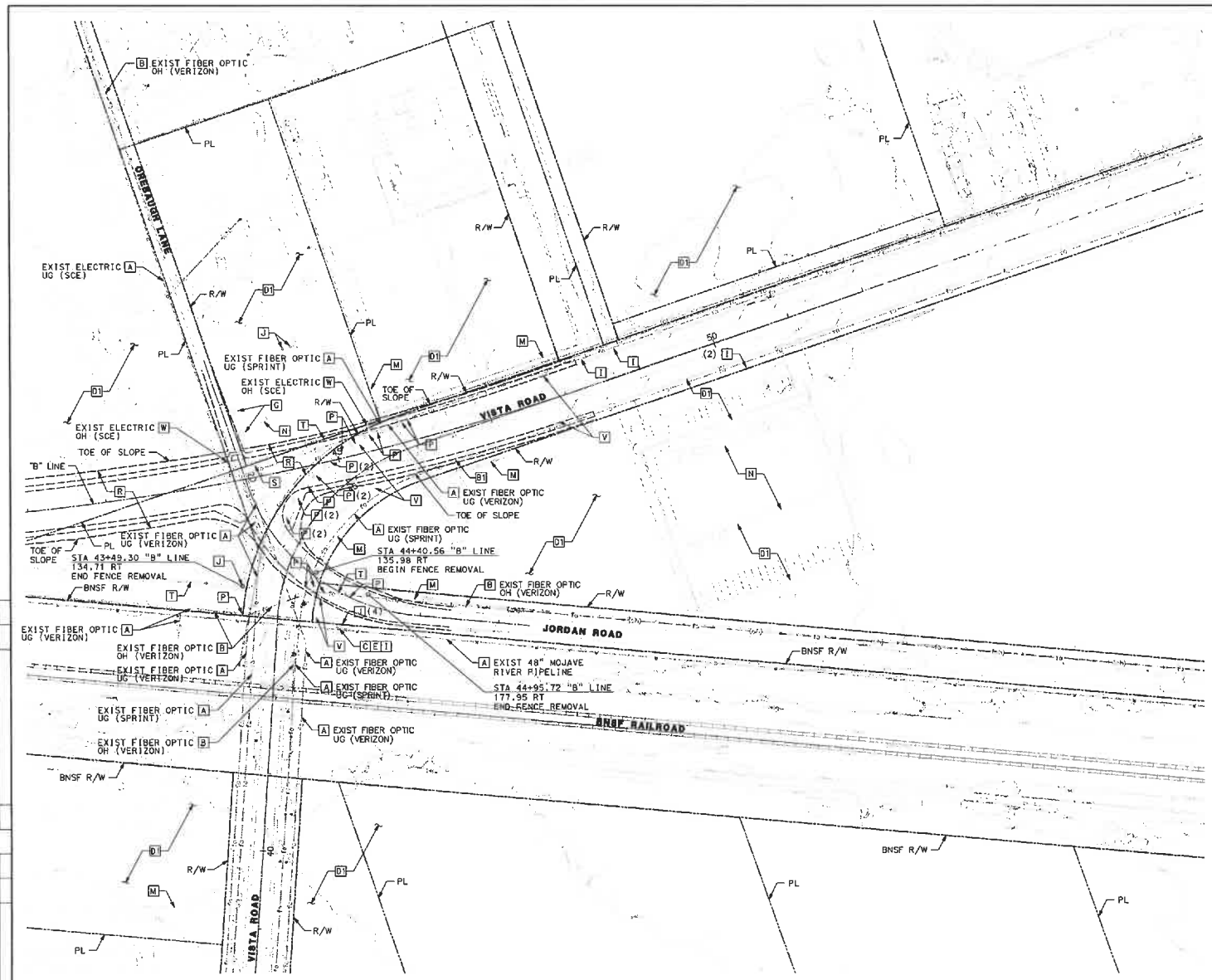
6/22/2012



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- U REMOVE EXIST GUARD POST
- V REMOVE EXIST AC PAVEMENT
- W RELOCATE EXIST POWER POLE AND OVERHEAD UTILITIES
- X RELOCATE EXIST UNDERGROUND UTILITIES
- Y RELOCATE EXIST POWER POLE AND ELECT LINES BY SCE
- Z RELOCATE EXIST POWER POLE AND ELECT LINES BY SCE
- A1 RELOCATE EXIST FIRE HYDRANT/LATERAL AND VALVE
- B1 RELOCATE EXIST SIGN/POST
- C1 RELOCATE EXIST VAULT
- D1 KEEP IN PLACE

NOTE:

REMOVALS WITHIN THE RAILROAD RIGHT OF WAY SHALL BE CONDUCTED BY BNSF.

LEGEND:

REMOVE EXISTING AC PAVEMENT

0 30 60 120 180 240
SCALE: 1" = 60'

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

60% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	REVISIONS	APPR.	DATE

MARK	REVISIONS	APPR.	DATE

Don't Dig...Until You Call U.S.A. Toll Free
DIAL: 811
for the location of buried utility lines.
Don't disrupt vital services.
TWO WORKING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER DATE

FIELD CHANGES

PLANS PREPARED BY:
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501

JAMES FABER R.C.E. 45668 EXPIRES 12-31-12 X DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

RECOMMENDED / APPROVED BY

XXXX XXXX P.E. DEPUTY DIRECTOR DATE

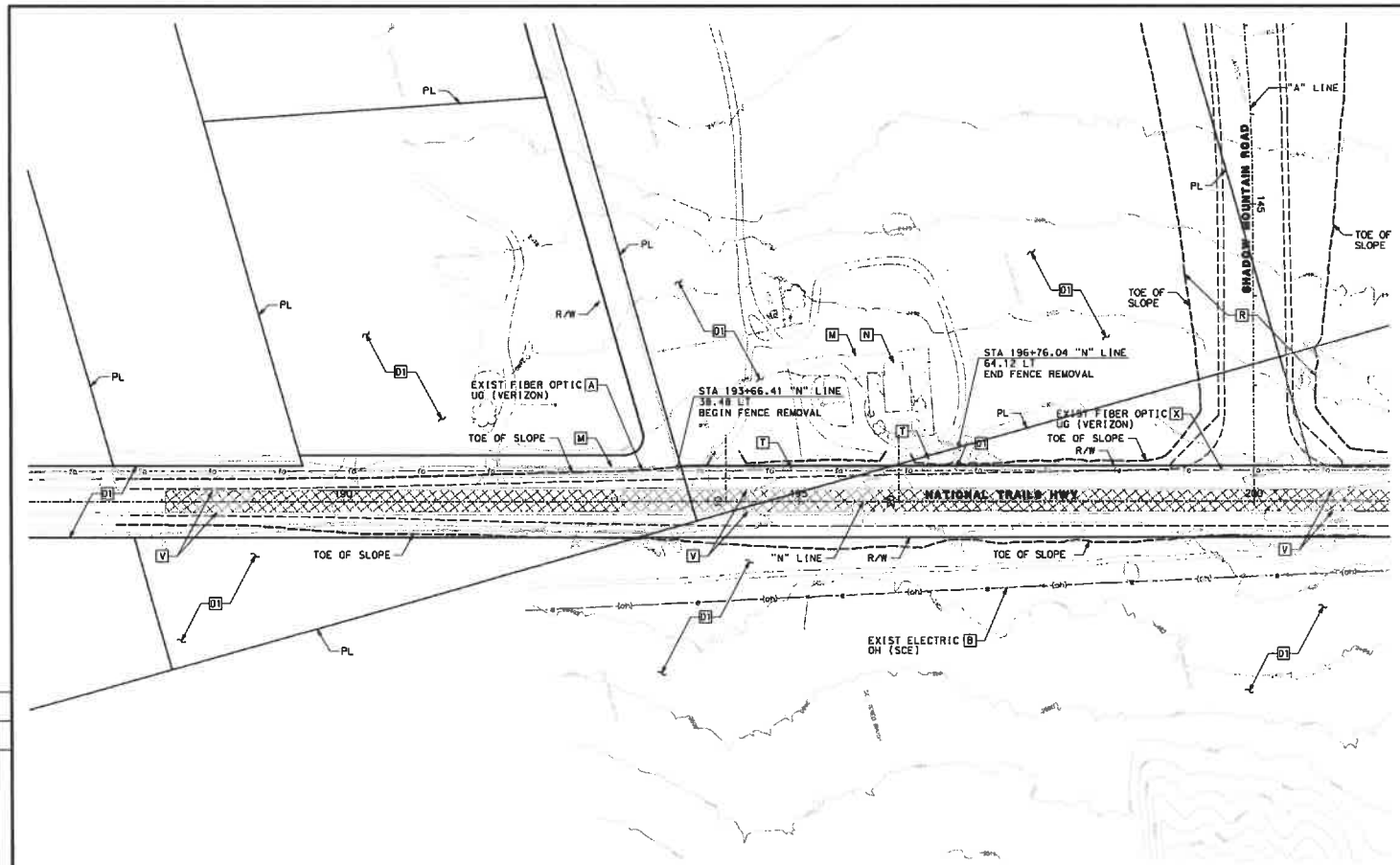
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

SHADOW MOUNTAIN ROAD

CONSTRUCTION DETAILS
"B" LINE DEMOLITION

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	C-07	39	X

R:\60186668 Shadow Mountain GS\000_CAD\006_Civil\Sheets\39_C-07.dgn
8/28/2012



DEMOLITION NOTES:

- A PROTECT EXIST UNDERGROUND UTILITIES IN PLACE
- B PROTECT EXIST OVERHEAD UTILITIES IN PLACE
- C PROTECT EXIST MANHOLE IN PLACE
- D PROTECT EXIST BLOWOFF
- E PROTECT EXIST VALVE
- F PROTECT EXIST FLUSH OUT
- G PROTECT EXIST RISER
- H PROTECT EXIST STREET LIGHT
- I PROTECT EXIST SIGN/POST IN PLACE
- J PROTECT EXIST GUARD POST
- K PROTECT EXIST MONITORING WELL SITE IN PLACE
- L PROTECT EXIST CONC V-DITCH
- M PROTECT EXIST FENCING
- N PROTECT EXIST BUILDING STRUCTURE
- O PROTECT EXIST VAULT
- P REMOVE EXIST SIGN/POST
- Q REMOVE EXIST MANHOLE
- R REMOVE EXIST TREE/SHRUB AND ROOTS
- S REMOVE EXIST RISER
- T REMOVE EXIST FENCING
- U REMOVE EXIST GUARD POST
- V REMOVE EXIST AC PAVEMENT
- W RELOCATE EXIST POWER POLE AND OVERHEAD UTILITIES
- X RELOCATE EXIST UNDERGROUND UTILITIES
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- A1 RELOCATE EXIST FIRE HYDRANT/LATERAL AND VALVE
- B1 RELOCATE EXIST SIGN/POST
- C1 RELOCATE EXIST VAULT
- D1 KEEP IN PLACE

LEGEND:

REMOVE EXISTING AC PAVEMENT

0 30 60 120 180 240
SCALE: 1" = 60'

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

80% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	REVISIONS	APPR.	DATE

MARK	REVISIONS	APPR.	DATE

Don't Dig...Until You Call U.S.A. Toll Free
DIAL: 811
for the location of buried utility lines.
Don't disrupt vital services.
NOT 2
2 WORKING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER DATE

FIELD CHANGES

PLANS PREPARED BY:
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501

JAMES FABER R.C.E. 45648 EXPIRES 12-31-12 X DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

RECOMMENDED / APPROVED BY

XXXX XXXX P.E. DEPUTY DIRECTOR DATE

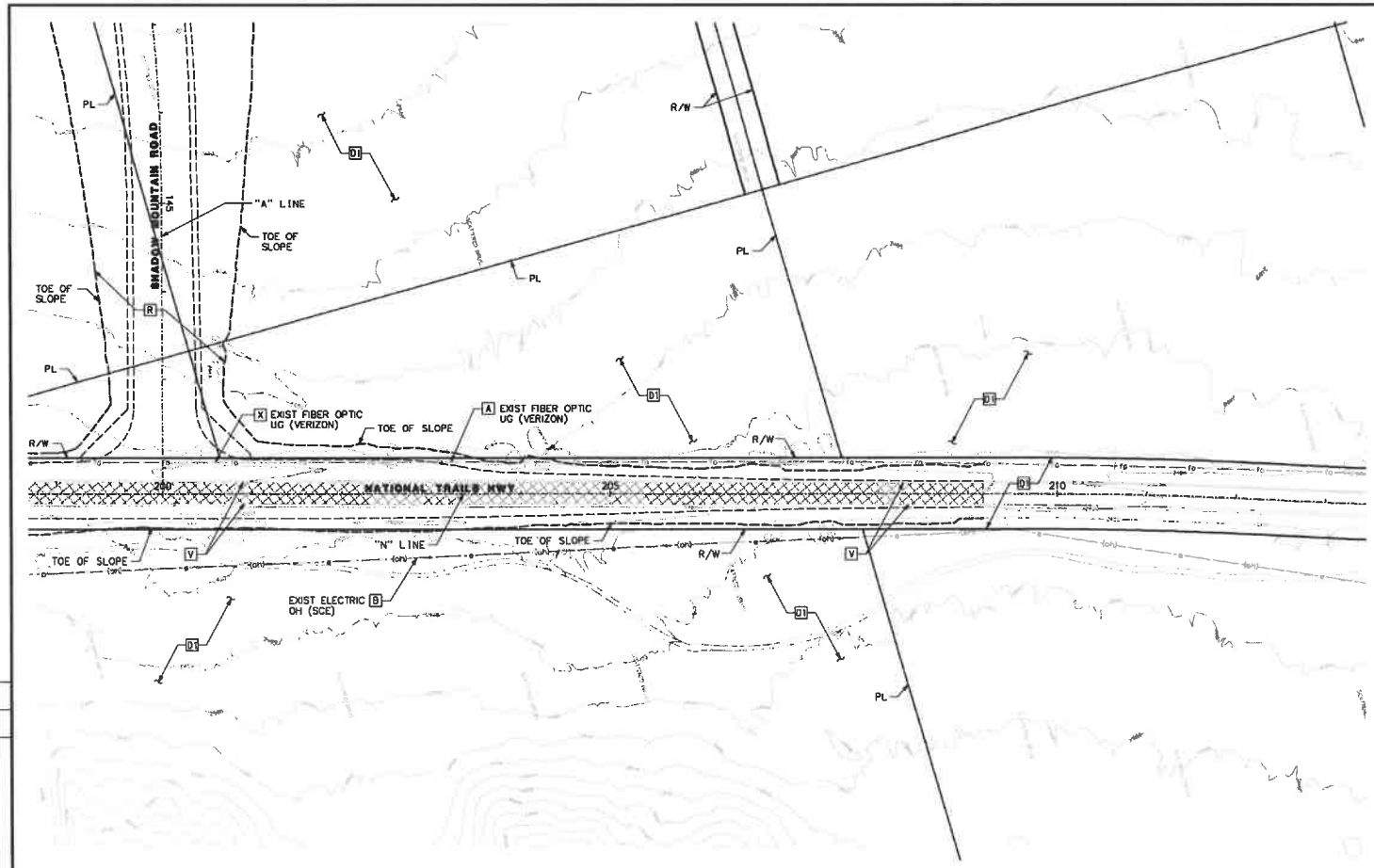
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

SHADOW MOUNTAIN ROAD

CONSTRUCTION DETAILS
NATIONAL TRAILS HWY DEMOLITION

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	C-08	40	X

R:\60189868 Shadow Mountain ES\000_CAD\008_Civil\Sheets\10_C-08.dgn
6/22/2012



DEMOLITION NOTES:

- A PROTECT EXIST UNDERGROUND UTILITIES IN PLACE
- B PROTECT EXIST OVERHEAD UTILITIES IN PLACE
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- C1 RELOCATE EXIST VAULT
- D1 KEEP IN PLACE

LEGEND:

REMOVE EXISTING AC PAVEMENT

0 30 60 120 180 240
SCALE: 1" = 60'

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

80% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	REVISIONS	APPR.	DATE

MARK	REVISIONS	APPR.	DATE

Dont Dig...Until You Call U.S.A. Toll Free
DIAL# 811
for the location of buried utility lines.
Don't dig until that ten minutes
180 WORKING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER DATE

FIELD CHANGES

PLANS PREPARED BY:
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501

JAMES FABER R.C.E. 45646 EXPIRES 12-31-12 X DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

RECOMMENDED / APPROVED BY

XXXX XXXX P.E. DEPUTY DIRECTOR DATE

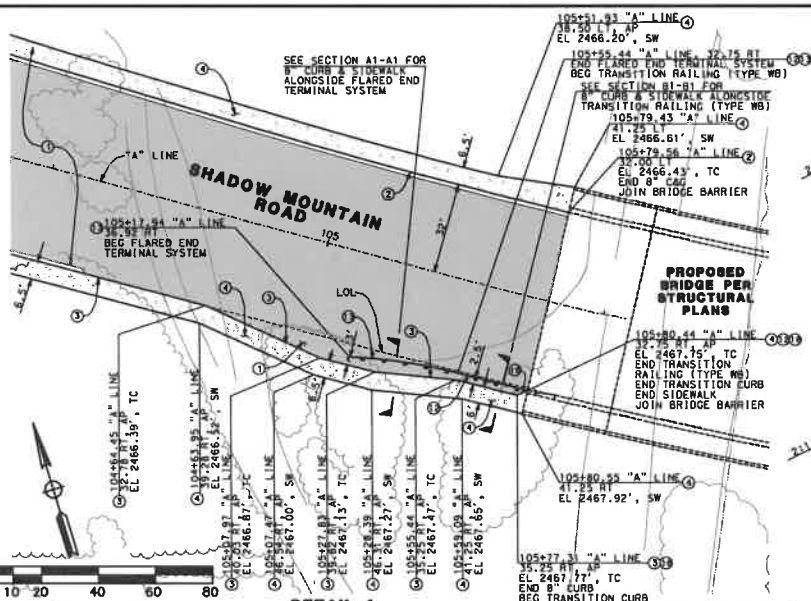
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

SHADOW MOUNTAIN ROAD

CONSTRUCTION DETAILS
NATIONAL TRAILS HWY DEMOLITION

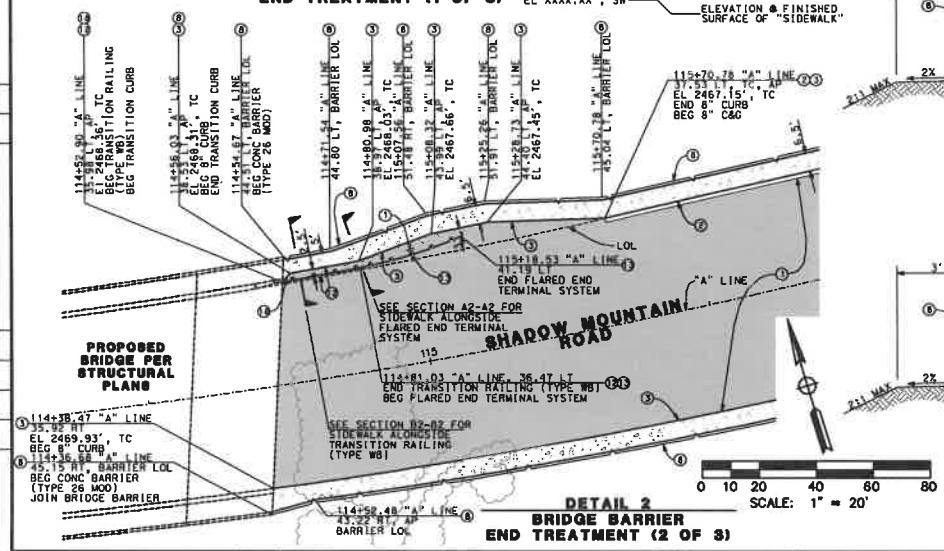
J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	C-09	41	X

H:\60189658 Shadow Mountain 85\000_CAD\006_Civil\Sheets\41_C-09.dgn
6/22/2012

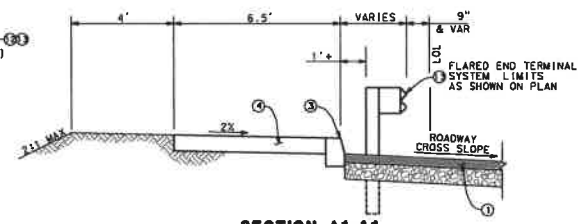


DETAIL 1
BRIDGE BARRIER END TREATMENT (1 OF 3)

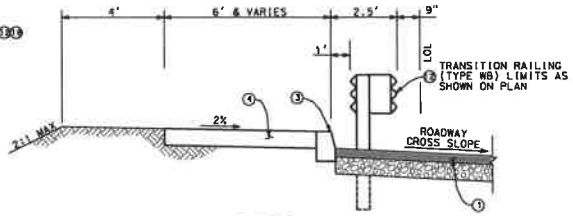
LEGENDS:
EL XXXX.XX', TC — ELEVATION @ TOP OF CURB (i.e. CURB LINE)
EL XXXX.XX', SW — ELEVATION @ FINISHED SURFACE OF "SIDEWALK"



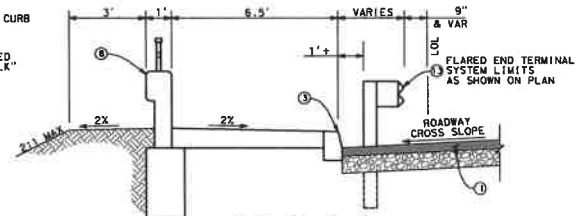
DETAIL 2
BRIDGE BARRIER END TREATMENT (2 OF 3)



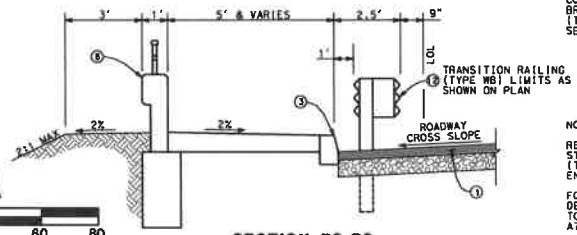
SECTION A1-A1
8" CURB & SIDEWALK ALONGSIDE FLARED END TERMINAL SYSTEM
NO SCALE



SECTION B1-B1
8" CURB & SIDEWALK ALONGSIDE TRANSITION RAILING (TYPE WB)
NO SCALE



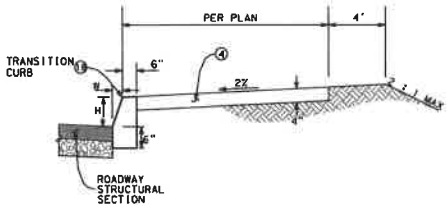
SECTION A2-A2
TYPE 26 MOD BARRIER ALONGSIDE FLARED END TERMINAL SYSTEM
NO SCALE



SECTION B2-B2
TYPE 26 MOD BARRIER ALONGSIDE TRANSITION RAILING (TYPE WB)
NO SCALE

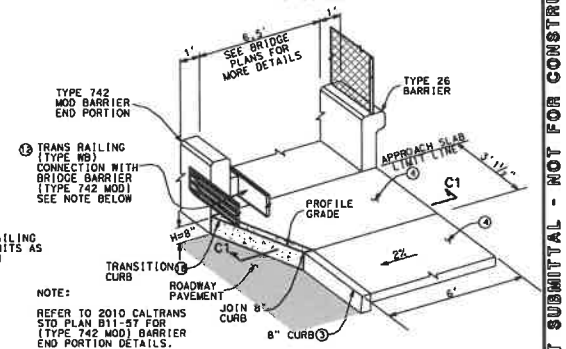
CONSTRUCTION NOTES:

1. CONST XX' HMA OVER XX' AB (CLASS 2)
2. CONST 8" PCC CURB & GUTTER PER COUNTY STD NO. 115
3. CONST 8" PCC CURB ONLY TYPE A1 PER CALTRANS STD PLAN NO. A87A
4. CONST 4" PCC SIDEWALK PER COUNTY STD NO. 109 (WIDTH PER PLAN)
5. CONST DWY APPROACH PER COUNTY STD NO. 128
6. CONST CURB RAMP PER COUNTY STD NO. 110
7. CONST CROSS GUTTER PER COUNTY STD NO. 119
8. CONST CONC BARRIER (TYPE 26 MOD) PER DET 6, SHT C-12
9. CONST CONC BARRIER (TYPE 26 MOD) END TRANSITION PER DET 6, SHT C-12
10. CONST 8" HMA DIKE PER COUNTY STD NO. 117
11. CONST XX" AB ONLY (CLASS 2)
12. CONST METAL BEAM GUARD RAILING TRANSITION RAILING (TYPE WB) PER CALTRANS STD PLAN NO. A77J4
13. CONST FLARED END METAL BEAM GUARD RAILING TERMINAL SYSTEM PER DETAIL ON SHT C-13
14. CONST DWY APPROACH PER COUNTY STD NO. 128A
15. CONST ROCK SLOPE PROTECTION PER DET 7, SHT C-12
16. SAWCUT EXISTING PAVEMENT
17. XX' MIN COLD PLANE EXIST PAVEMENT AND OVERLAY WITH XX' MIN HMA FOR SMOOTH TRANSITION
18. CONST TRANSITION CURB PER DET 3 & 5, SHT C-10 & C-11
19. CONST XX' HMA OVER XX' AB (CLASS 2)



NOTE:
AT THE END WHERE THE TRANSITION CURB JOINS 8" CURB, H=8" & W=2"; H & W's VALUES SMOOTHLY TRANSLATE TO MATCH BRIDGE BARRIER (TYPE 742 MOD) AT THE OTHER END.

SECTION C1-C1 (BELOW)
NO SCALE



NOTE:
REFER TO 2010 CALTRANS STD PLAN B11-57 FOR (TYPE 742 MOD) BARRIER END PORTION DETAILS.

FOR ALL CONNECTION DETAILS NOT SHOWN, REFER TO 2010 CALTRANS STD PLAN A77J2.

DETAIL 3
TRANSITION CURB
(APPLY TO END TREATMENT DETAIL 1 ONLY)
NO SCALE

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

80% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	DATE	APPR.	REVISIONS

MARK	DATE	APPR.	REVISIONS

Don't Dig...until You Call U.S.A. Toll Free DIAL: 811 for the location of buried utility lines. Don't attempt utility services. TWO WORKING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER — DATE

FIELD CHANGES

PLANS PREPARED BY
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92868-4713
(714) 567-2501
JAMES FABER R.C.E. 45648 EXPIRES 12-31-12 — X DATE

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS
RECOMMENDED / APPROVED BY
XXXX XXXX P.E. DEPUTY DIRECTOR — DATE
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS — DATE

SHADOW MOUNTAIN ROAD
CONSTRUCTION DETAILS
BRIDGE BARRIER END TREATMENTS

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	C-10	42	X

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6/22/2012