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STANISLAUS COUNTY

HATCH ROAD AND SANTA FE AVENUE

INTERSECTION WIDENING PROJECT PHASE 3

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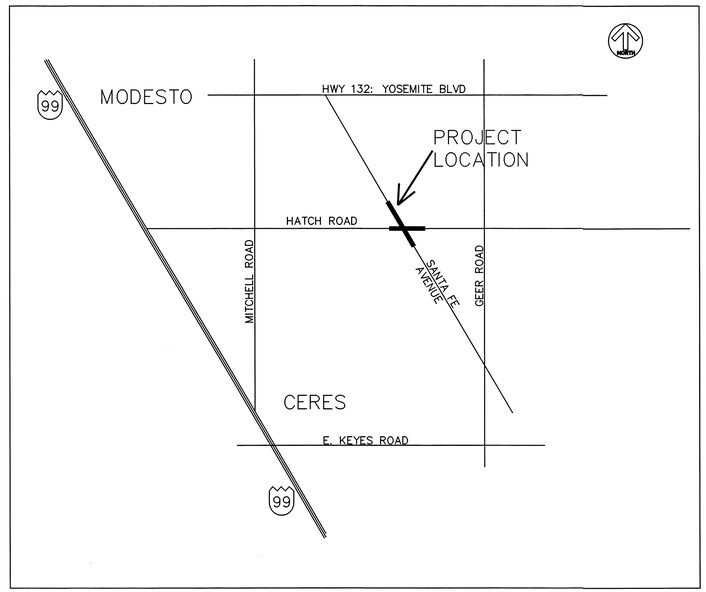

VICINITY MAP

NO SCALE

PROJECT DESCRIPTION

PHASE 1: (NOT IN CONTRACT)

PHASE 2: (NOT IN CONTRACT)

PHASE 3: AT SANTA FE AVENUE AND HATCH ROAD. CONSTRUCTION OF NEW TRAFFIC SIGNALS AND INTERSECTION IMPROVEMENTS. THIS INCLUDES THE INSTALLATION OF NEW PAVEMENT, CURB AND GUTTER, TRAFFIC SIGNALS, STREET LIGHTS, AND RELOCATION OF OVERHEAD UTILITIES.

ABBREVIATIONS

AB	AGGREGATE BASE	LF	LINEAL FEET
AC	ASPHALTIC CONCRETE OR ACRES	LT	LEFT
APPR	APPROVED	MAX	MAXIMUM
APPROX	APPROXIMATELY	MIN	MINIMUM
AT&T	AMERICAN TELEPHONE & TELEGRAPH CORPORATION	N	NORTH OR NEW
		NTS	NOT TO SCALE
BNSF	BURLINGTON NORTHERN AND SANTA FE RAILWAY	NW	NORTHWEST
		OC	ON CENTER
BLDG	BUILDING	PCC	PORTLAND CEMENT CONCRETE
BW	BACK OF SIDEWALK OR BOTTOM OF WALL	PG&E	PACIFIC GAS AND ELECTRIC
BVC	BEGINNING OF VERTICAL CURVE	PR	PROPOSED
C&G	CURB AND GUTTER	POC	POINT OF CONNECTION
CL	CENTER LINE	PT	POINT
CLR	CLEARANCE	PUE	PUBLIC UTILITY EASEMENT
COMP	COMPACTION	PVI	POINT OF VERTICAL INTERSECTION
CONC	CONCRETE	PVMT	PAVEMENT
CONST	CONSTRUCTION	R	RIGHT OR RADIUS
CY	CUBIC YARDS	R/R	RAILROAD
DWG	DRAWING	R/W, ROW	RIGHT OF WAY
E	EAST OR EXISTING	RAD	RADIUS
EGCL	EXISTING GROUND CENTER LINE	RT	RIGHT
EG	EXISTING GROUND	S	SOUTH OR SLOPE
ELEC	ELECTRICAL	SE	SOUTHEAST
ELEV	ELEVATION	SF	SQUARE FEET
EP	EDGE OF PAVEMENT	SHT	SHEET
ES	EDGE OF SHOULDER	SS	SANITARY SEWER
ESM'T	EASEMENT	STD	STANDARD
ETW	EDGE OF TRAVEL WAY	STA	STATION
EVC	END OF VERTICAL CURVE	SW	SIDEWALK
EX	EXISTING	TC	TOP OF CURB
FGCL	FINISH GROUND CENTER LINE	TP	TOP OF PAVEMENT
FG	FINISH GROUND	TW	TOP OF WALL
FH	FIRE HYDRANT	TID	TURLOCK IRRIGATION DISTRICT
FL	FLOW LINE	TYP	TYPICAL
FS	FINISH SURFACE	V	VERTICAL
FT	FEET	VC	VERTICAL CURVE
GB	GRADE BREAK	W	WEST OR WATER OR WITH
GR	GRATE	WM	WATER METER
INV	INVERT ELEVATION	WV	WATER VALVE
HT	HEIGHT		
H	HORIZONTAL		
IRR	IRRIGATION		
L	LENGTH OR LEFT		

THESE PLANS HAVE BEEN CHECKED BY THE STANISLAUS COUNTY DEPARTMENT OF PUBLIC WORKS AND/OR AUTHORIZED REPRESENTATIVE, BUT SUCH CHECKING AND/OR APPROVAL DOES NOT RELIEVE THE CONTRACTOR FROM HIS/HER RESPONSIBILITY TO CORRECT ERRORS, OMISSIONS, OR MAKE CHANGES REQUIRED BY CONDITIONS DISCOVERED IN THE FIELD DURING COURSE OF CONSTRUCTION.

APPROVED BY THE COUNTY OF STANISLAUS
DIRECTOR OF PUBLIC WORKS
BY: _____ DATE: 11/15/12

1-800-227-2600 CALL BEFORE YOU DIG USA UNDERGROUND SERVICE ALERT

REGISTERED PROFESSIONAL ENGINEER ALEX HELIER C 061027 EXP.12/31/12 CIVIL STATE OF CALIFORNIA
11/8/12

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SACRAMENTO, CA. 95814
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HATCH RD AND SANTA FE AVE – PHASE 3
TITLE SHEET
STANISLAUS COUNTY CALIFORNIA

Revisions | No.

Date: 11/9/2012
Scale: NONE
Design: AM/AH
Drawn: AM/AH/KW
Approved: JDL
Job No: 20045940-10

Drawing Number: TI-01

1 OF 26

DRAWING NAME: P:\STANDARD\TITLE\TITLE.dwg
PLOT TIME: 11:45:12
PLOT DATE: 11/8/2012

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GENERAL NOTES

1. ALL MATERIAL AND WORK SHALL CONFORM TO THE LATEST VERSION AND AMENDMENTS TO THE STATE OF CALIFORNIA STATE STANDARDS AND PLANS; STANISLAUS COUNTY 2007 STANDARD PLANS AND SPECIFICATIONS. ALL IMPROVEMENTS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT.

2. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT ALL UTILITIES. THE CONTRACTOR SHALL DO NO EXCAVATION UNTIL ALL UTILITY AGENCIES AND THE STANISLAUS COUNTY DEPARTMENT OF PUBLIC WORKS HAVE BEEN NOTIFIED AND HAVE BEEN GIVEN THE OPPORTUNITY TO MARK THEIR FACILITIES IN THE FIELD. THE CONTRACTOR SHALL CALL U.S.A. AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO DOING ANY EXCAVATION.

3. THESE PLANS HAVE BEEN CHECKED BY THE DEPARTMENT OF PUBLIC WORKS AND/OR AUTHORIZED REPRESENTATIVE, BUT SUCH CHECKING AND/OR APPROVAL DOES NOT RELIEVE THE CONTRACTOR FROM ITS RESPONSIBILITY TO CORRECT ERRORS, OMISSIONS OR MAKE CHANGES REQUIRED BY CONDITIONS DISCOVERED IN THE FIELD DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR IS TO MAINTAIN AS-BUILT PLANS AND THE PLANS SHALL BE MARKED ON IMMEDIATELY SHOULD ANY ERRORS, OMISSIONS OR MAKE CHANGES REQUIRED BY CONDITIONS DISCOVERED IN THE FIELD.

4. THE CONTRACTOR SHALL CONTROL DUST AT ALL TIMES. DUST CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IMPLEMENTED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL GUIDELINES (INCLUDING, BUT NO LIMITED TO, THE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT).

5. CONSTRUCTION STAKING SHALL BE DONE BY THE COUNTY.

6. UNLESS OTHERWISE APPROVED, HOUSE SERVICES, FIRE HYDRANTS, GAS AND TELEPHONE LINE, AND ALL OTHER UNDERGROUND UTILITIES SHALL BE INSTALLED PRIOR TO CURB, GUTTER AND SIDEWALK CONSTRUCTION AND STREET PAVING.

7. ALL LINES ABANDONED SHALL EITHER BE REMOVED OR FILLED WITH CONTROLLED LOW STRENGTH MATERIAL.

8. STREET STRIPING SHALL INCLUDE STOP BARS, CENTERLINE STRIPING, AND LANE LINE MARKERS, CROSSWALKS AND OTHER MARKINGS REQUIRED BY THE ENGINEER. STRIPING SHALL BE COMPLETED WITH THERMOPLASTIC AND REFLECTIVE MARKERS.

9. ALL TRENCHES SHALL BE BACK FILLED IN ACCORDANCE WITH STANISLAUS COUNTY STANDARDS AND SPECIFICATIONS.

10. WHEN WIDENING THE PAVEMENT ON AN EXISTING ROAD, THE EXISTING PAVEMENT SHALL BE SAW CUT TO A NEAT LINE AND REMOVED BACK TO AN EXISTING ADEQUATE STRUCTURAL SECTION, OR TO THE ORIGINAL ROAD SECTION. AN EXPLORATORY TRENCH, OR POT-HOLING, MAY BE REQUIRED TO DETERMINE THE LIMITS OF PAVEMENT REMOVAL.

11. EXISTING CURB, GUTTER AND SIDEWALK WITHIN THE PROJECT LIMITS THAT ARE DAMAGED OR DISPLACED DUE TO THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED OR REPLACED PER STANISLAUS COUNTY STANDARDS AT THE EXPENSE OF THE CONTRACTOR.

12. PRIOR TO TRENCHING FOR STORM DRAIN PIPE, THE CONTRACTOR SHALL VERIFY, IN THE FIELD, THE SIZE AND LOCATION OF EXISTING PIPE AT THE POINT OF CONNECTION. ANY DEVIATION FROM THE PLANS SHALL BE RESOLVED BY THE DESIGN ENGINEER AND APPROVED BY THE COUNTY PRIOR TO TRENCHING.

13. MANHOLES, VALVES, CLEAN OUTS, ETC. SHALL BE BROUGHT TO FINISH GRADE BY THE CONTRACTOR AFTER THE FINAL PAVING COURSE IS PLACED.

14. STORM DRAIN PIPE SIZES SHALL NOT BE CHANGED WITHOUT THE APPROVAL OF THE ENGINEER.

15. ALL CONSTRUCTION SITE ACTIVITIES SHALL CONFORM TO THE STATE WATER RESOURCES CONTROL BOARD, NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES), WASTE DISCHARGE REQUIREMENTS FOR DISCHARGES OF STORM WATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY.

16. CONTRACTOR SHALL POSITIVELY IDENTIFY THE LOCATION OF THE FIBER OPTIC LINE AS WELL AS OTHER EXISTING CONDUITS IN CLOSE PROXIMITY TO RAIL ROAD CROSSING PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY.

~~17. AN APPROVED SWPPP SHALL BE SUBMITTED TO THE COUNTY AND MUST BE ON SITE DURING ALL CONSTRUCTION ACTIVITIES.~~

18. PRIOR TO INITIATING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT ALL NECESSARY FEDERAL, STATE, AND LOCAL PERMITS AND/OR AUTHORIZATIONS HAVE BEEN OBTAINED.

CROSS-SECTION DESIGN SCHEDULE

STATION RANGE			
FROM	TO	SECTION	SHEET
SANTA FE AVE			
59+51.43	60+70.00	12	XS-03
60+70.00	64+69.69	3	XS-01
64+69.69	68+19.00	8	XS-02
68+19.00	6979.72	16	XS-03
69+79.72	70+65.78	2	XS-01
70+65.78	71+52.90	18	XS-03
71+52.90	74+54.40	17	XS-03
74+54.40	79+87.22	3	XS-01
79+87.22	81+42.87	12	XS-03
HATCH ROAD			
93+96.48	94+70.79	5	XS-01
94+70.79	95+10.08	6	XS-01
95+10.08	96+47.84	7	XS-02
96+47.84	97+54.03	1	XS-01
97+54.03	9860.06	11	XS-03
98+60.06	99+18.60	13	XS-03
99+18.60	100+49.62	2	XS-01
100+49.62	101+09.61	9	XS-02
101+09.61	102+66.52	4	XS-01
102+66.52	107+41.18	10	XS-02

PAVEMENT DESIGN SCHEDULE

PAVEMENT DESIGN CHART	AC	AB	TI	R
FULL SECTIONS	7"	8.5"	11	50
AC OVERLAY FOR BRIDGE	1.75" MIN	–	–	–
OTHER AC OVERLAYS	2" MIN	–	–	–

GEOTECHNICAL NOTES

ALL WORK, INCLUDING SOILS AND PAVEMENT SECTIONS, SHALL BE IN CONFORMANCE WITH THE FOLLOWING SOILS REPORT:

GEOTECHNICAL SERVICES REPORT
PROPOSED SANTA FE AVENUE INTERSECTION IMPROVEMENTS
GEER ROAD/SANTA FE AVENUE
AND HATCH ROAD/SANTA FE AVENUE
STANISLAUS COUNTY, CALIFORNIA
DATED DECEMBER 7, 2004

BY:
KLEINFELDER
1224 SIXTH STREET
MODESTO, CA 95354
(209) 577-4333

THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE GEOTECHNICAL INVESTIGATION REPORT AND SUBSURFACE CONDITIONS AT THE SITE.

UTILITY CONTACTS

AT&T	SUKHWANT VIRK	(209) 549-5808
CHARTER COMMUNICATIONS	ABEL DAVILA	(209) 633-3311
TID (ELECTRICAL)	KIRK TABAR	(209) 883-8349
TID (IRRIGATION)	TODD TROGLIN	(209) 883-8367

CALL BEFORE YOU DIG 1-800-227-2600 USA

REGISTERED PROFESSIONAL ENGINEER ALEX HEUER C 46102 EXP. 12/31/12 CIVIL STATE OF CALIFORNIA
11/8/12

BKF ENGINEERS / SURVEYORS / PLANNERS
980 9TH STREET, SUITE 1770
SACRAMENTO, CA 95814
PH: (916) 556-5800
FAX: (916) 556-5899

HATCH RD AND SANTA FE AVE – PHASE 3
GENERAL NOTES
STANISLAUS COUNTY CALIFORNIA

Revisions	
No.	
1	9-9-2015

Date: 11/9/2012
Scale: NONE
Design: AH
Drawn: AH
Approved: JDL
Job No: 20045040-10

Drawing Number:
GN-01
2 OF 26

Addendum No.3

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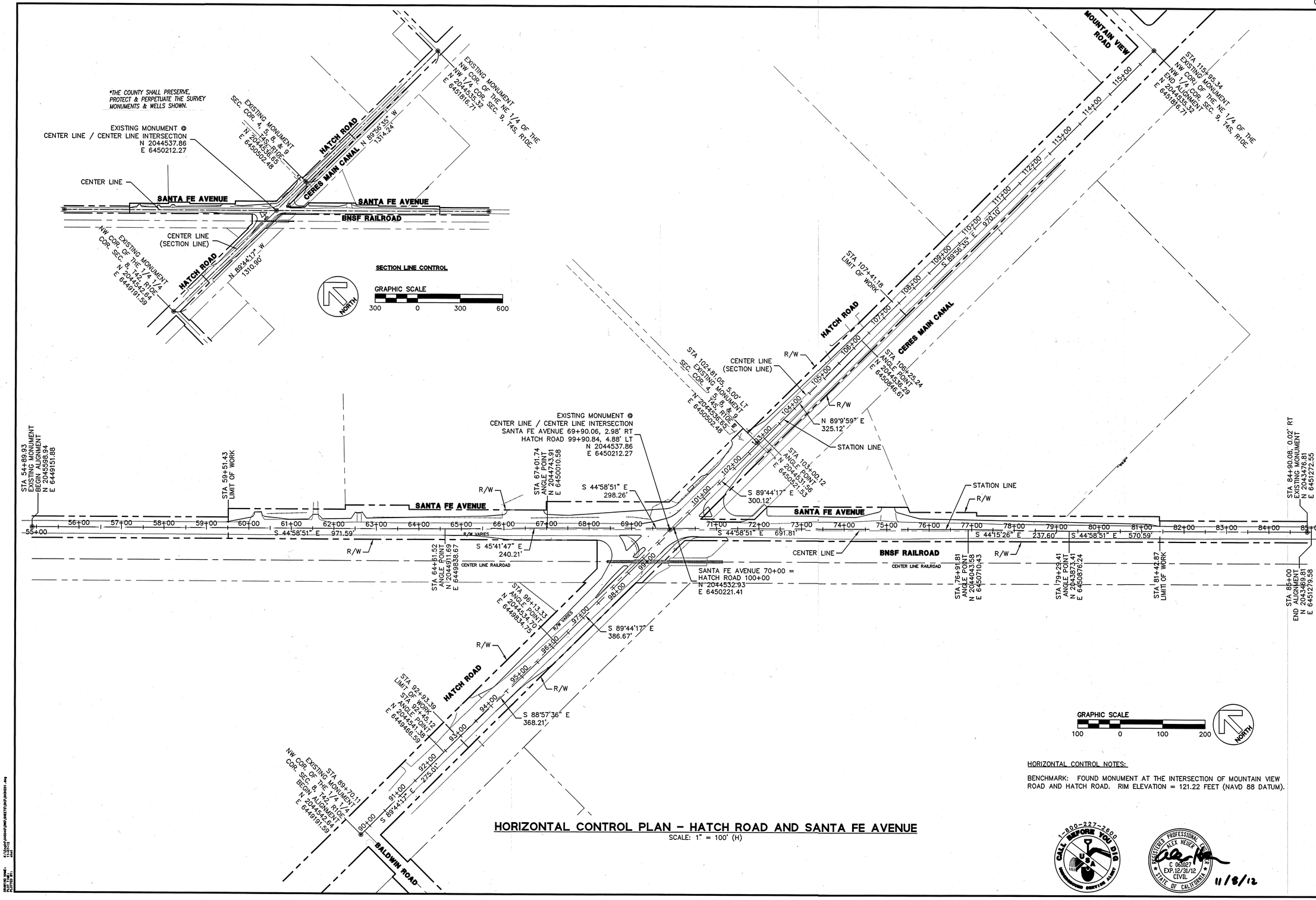

HORIZONTAL CONTROL PLAN – HATCH ROAD AND SANTA FE AVENUE

SCALE: 1" = 100' (H)

HORIZONTAL CONTROL NOTES:

BENCHMARK: FOUND MONUMENT AT THE INTERSECTION OF MOUNTAIN VIEW ROAD AND HATCH ROAD. RIM ELEVATION = 121.22 FEET (NAVD 88 DATUM).

1-800-227-2600 CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER ALEX REIDER C 061027 EXP.12/31/12 CIVIL STATE OF CALIFORNIA

11/8/12

980 9TH STREET, SUITE 1770
SACRAMENTO, CA 95814
PH: (916) 556-5800
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HATCH RD AND SANTA FE AVE – PHASE 3 HORIZONTAL CONTROL PLAN

STANISLAUS COUNTY CALIFORNIA

No.	Revisions

Date: 11/9/2012
Scale: 1"=100'
Design: AH
Drawn: JS
Approved: JDL
Job No: 2004040-10

Drawing Number:

HZ-01

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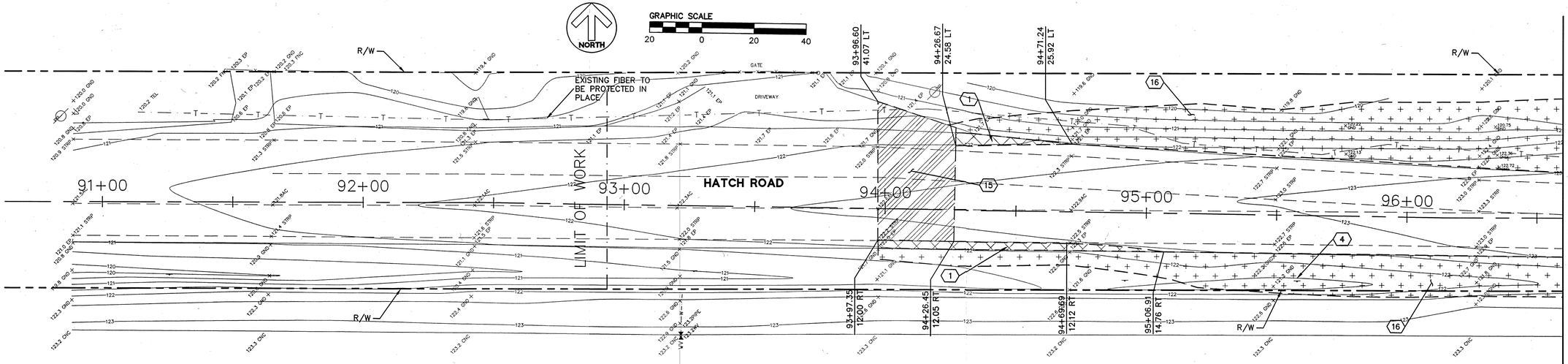
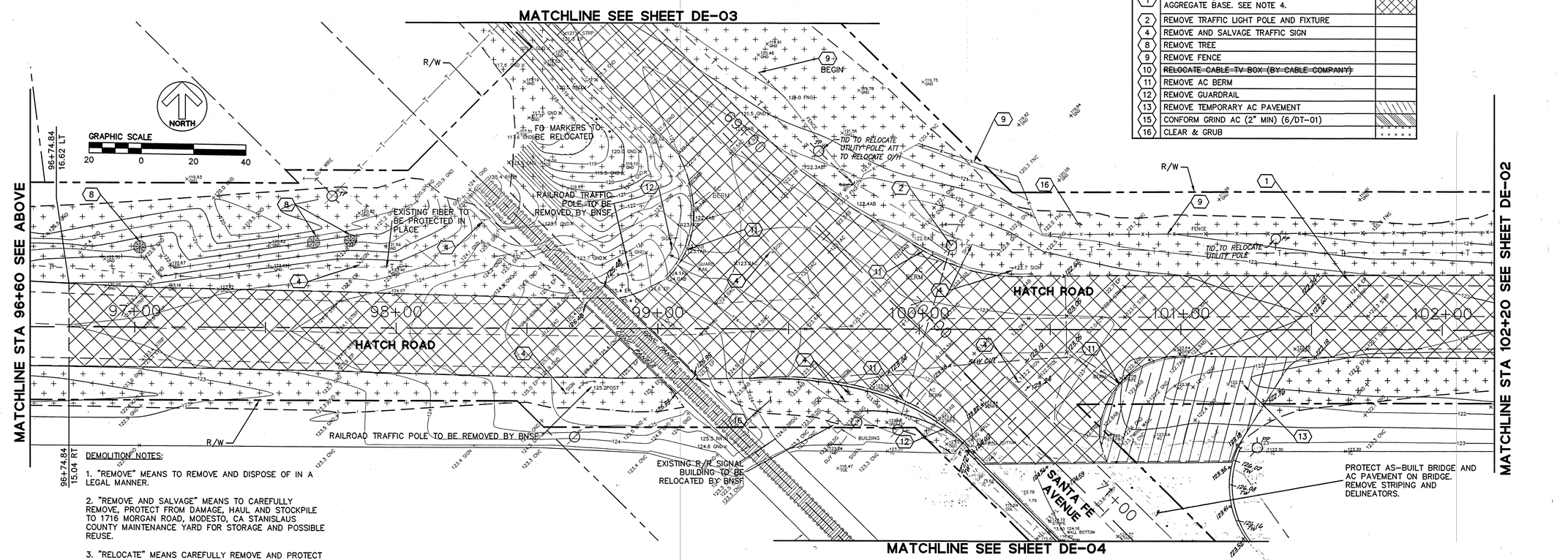


DEMOLITION PLAN – HATCH ROAD

SCALE: 1" = 20' (H)

DEMOLITION ITEMS		
ITEM	DESCRIPTION OF WORK	HATCH
1	REMOVE AND/OR RE-USE ASPHALT AND AGGREGATE BASE. SEE NOTE 4.	
2	REMOVE TRAFFIC LIGHT POLE AND FIXTURE	
4	REMOVE AND SALVAGE TRAFFIC SIGN	
8	REMOVE TREE	
9	REMOVE FENCE	
10	~~RELOCATE CABLE TV BOX (BY CABLE COMPANY)~~	
11	REMOVE AC BERM	
12	REMOVE GUARDRAIL	
13	REMOVE TEMPORARY AC PAVEMENT	
15	CONFORM GRIND AC (2" MIN) (6/DT-01)	
16	CLEAR & GRUB	



DEMOLITION NOTES:

1. "REMOVE" MEANS TO REMOVE AND DISPOSE OF IN A LEGAL MANNER.

2. "REMOVE AND SALVAGE" MEANS TO CAREFULLY REMOVE, PROTECT FROM DAMAGE, HAUL AND STOCKPILE TO 1716 MORGAN ROAD, MODESTO, CA STANISLAUS COUNTY MAINTENANCE YARD FOR STORAGE AND POSSIBLE REUSE.

3. "RELOCATE" MEANS CAREFULLY REMOVE AND PROTECT FROM DAMAGE. COORDINATE WITH UTILITY COMPANIES TO IDENTIFY REINSTALLATION LOCATIONS

4. REMOVED ASPHALT & AGGREGATE BASE MAY BE RE-USED AS FILL OR SHOULDER BACKING OR RECYCLED AGGREGATE BASE IF IT MEETS THE PROJECT SPECIFICATIONS FOR EARTHWORK OR SHOULDER BACKING OR AGGREGATE BASE, RESPECTIVELY, OR AS DIRECTED BY THE COUNTY. OTHERWISE, REMOVE AND DISPOSE ASPHALT AGGREGATE BASE IN A LEGAL MANNER.

DEMOLITION PLAN – HATCH ROAD

SCALE: 1" = 20' (H)

1-800-227-2600 CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER ALEX HEWITT C 050027 EXP.12/31/12 CIVIL STATE OF CALIFORNIA 11/8/12

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HATCH RD AND SANTA FE AVE – PHASE 3
DEMOLITION PLAN – HATCH ROAD
EXISTING CONDITIONS

STANISLAUS COUNTY CALIFORNIA

Revisions		
No.		
1	ADD RR PANELS, BRIDGE AND REVISE TOPO	1-29-15

Date: 11/9/2012
Scale: 1"=20'
Design: AM
Drawn: AM
Approved: JDL
Job No: 20045040-10

Drawing Number:
DE-01
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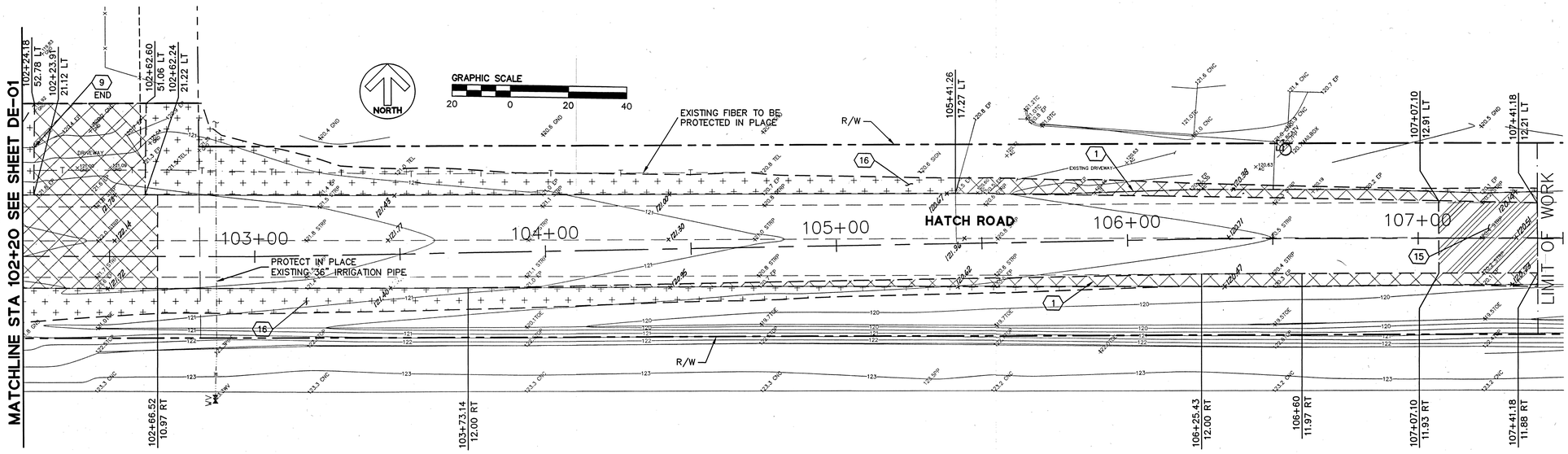

DEMOLITION PLAN – HATCH ROAD

SCALE: 1" = 20' (H)

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DEMOLITION ITEMS

ITEM	DESCRIPTION OF WORK	HATCH
1	REMOVE AND/OR RE-USE ASPHALT AND AGGREGATE BASE. SEE NOTE 4.	
9	REMOVE FENCE	
15	CONFORM GRIND AC (2" MIN) (6/DT-01)	
16	CLEAR & GRUB	

CALL 1-800-227-2600 BEFORE YOU DIG — UNDERGROUND SERVICE ALERT

REGISTERED PROFESSIONAL ENGINEER — ALEX HEUER — C 061027 EXP.12/31/12 CIVIL — STATE OF CALIFORNIA — 11/8/12

980 9TH STREET, SUITE 1770
SACRAMENTO, CA. 95814
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HATCH RD AND SANTA FE AVE – PHASE 3
DEMOLITION PLAN – HATCH ROAD
EXISTING CONDITIONS

STANISLAUS COUNTY CALIFORNIA

No.	Revisions
1.	AS BUILT PAVEMENT OVERLAY 1-29-15

Date: 11/9/2012
Scale: 1"=20'
Design: AM
Drawn: AM
Approved: JDL
Job No: 20045040-10

Drawing Number: DE-02

5 OF 26

DRAWING NAME: S:\Civil\DRAWINGS\DE\SHEETS\DE\DE02DT-1.dwg
PLOT DATE: 11/08/2012
PLOT TIME: 12:01 PM

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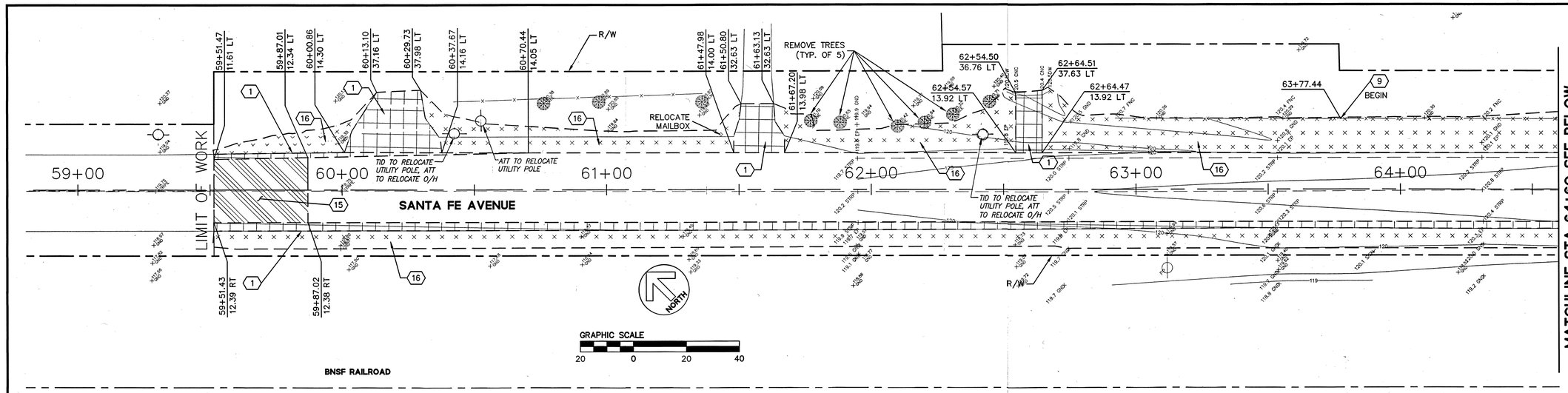
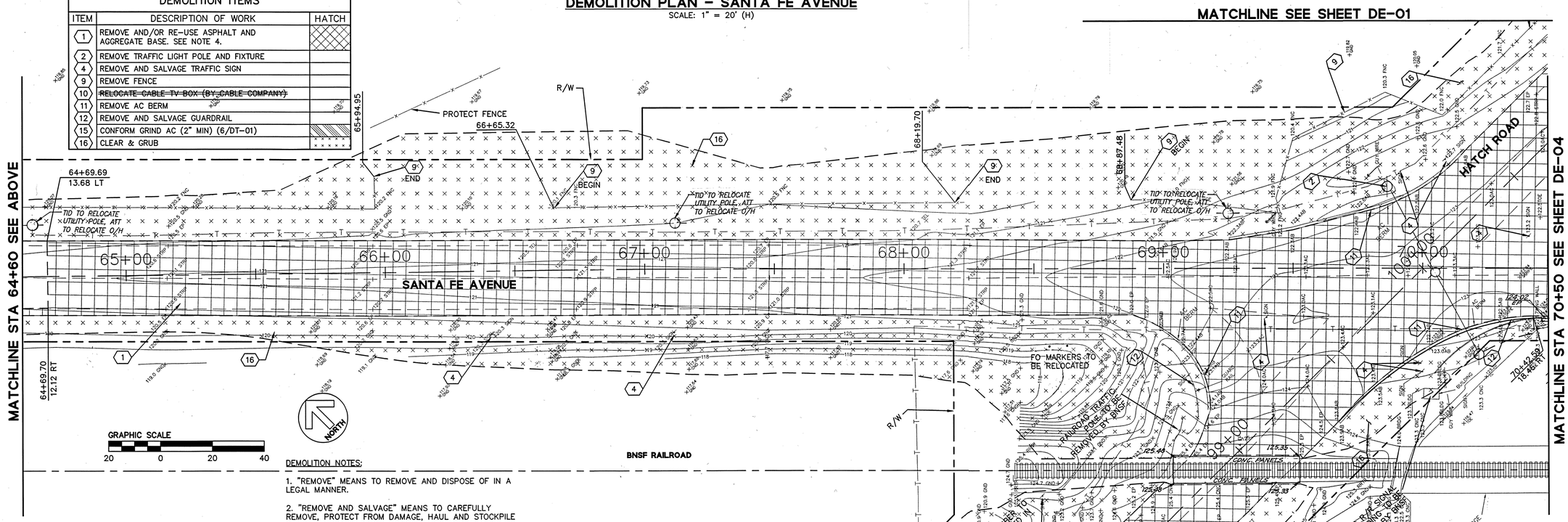


DEMOLITION PLAN – SANTA FE AVENUE

SCALE: 1" = 20' (H)

DEMOLITION ITEMS		
ITEM	DESCRIPTION OF WORK	HATCH
1	REMOVE AND/OR RE-USE ASPHALT AND AGGREGATE BASE. SEE NOTE 4.	
2	REMOVE TRAFFIC LIGHT POLE AND FIXTURE	
4	REMOVE AND SALVAGE TRAFFIC SIGN	
9	REMOVE FENCE	
10	~~RELOCATE CABLE TV BOX (BY CABLE COMPANY)~~	
11	REMOVE AC BERM	
12	REMOVE AND SALVAGE GUARDRAIL	
15	CONFORM GRIND AC (2" MIN) (6/DT-01)	
16	CLEAR & GRUB	



DEMOLITION PLAN – SANTA FE AVENUE

SCALE: 1" = 20' (H)

DEMOLITION NOTES:

1. "REMOVE" MEANS TO REMOVE AND DISPOSE OF IN A LEGAL MANNER.

2. "REMOVE AND SALVAGE" MEANS TO CAREFULLY REMOVE, PROTECT FROM DAMAGE, HAUL AND STOCKPILE TO 1716 MORGAN ROAD, MODESTO, CA STANISLAUS COUNTY MAINTENANCE YARD FOR STORAGE AND POSSIBLE REUSE.

3. "RELOCATE" MEANS CAREFULLY REMOVE AND PROTECT FROM DAMAGE. COORDINATE WITH UTILITY COMPANIES TO IDENTIFY REINSTALLATION LOCATIONS

4. REMOVED ASPHALT & AGGREGATE BASE MAY BE RE-USED AS FILL OR SHOULDER BACKING OR RECYCLED AGGREGATE BASE IF IT MEETS THE PROJECT SPECIFICATIONS FOR EARTHWORK OR SHOULDER BACKING OR AGGREGATE BASE, RESPECTIVELY, OR AS DIRECTED BY THE COUNTY. OTHERWISE, REMOVE AND DISPOSE ASPHALT AGGREGATE BASE IN A LEGAL MANNER.

CALL BEFORE YOU DIG 1-800-227-2600

REGISTERED PROFESSIONAL ENGINEER ALEX HEUER C-061027 EXP. 12/31/12 CIVIL STATE OF CALIFORNIA 11/8/12

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HATCH RD AND SANTA FE AVE – PHASE 3
DEMOLITION PLAN – SANTA FE AVENUE
EXISTING CONDITIONS

STANISLAUS COUNTY CALIFORNIA

Revisions	No.

Date: 11/9/2012
Scale: 1"=20'
Design: AM
Drawn: AM
Approved: JDL
Job No: 20045040-10

Drawing Number: DE-03

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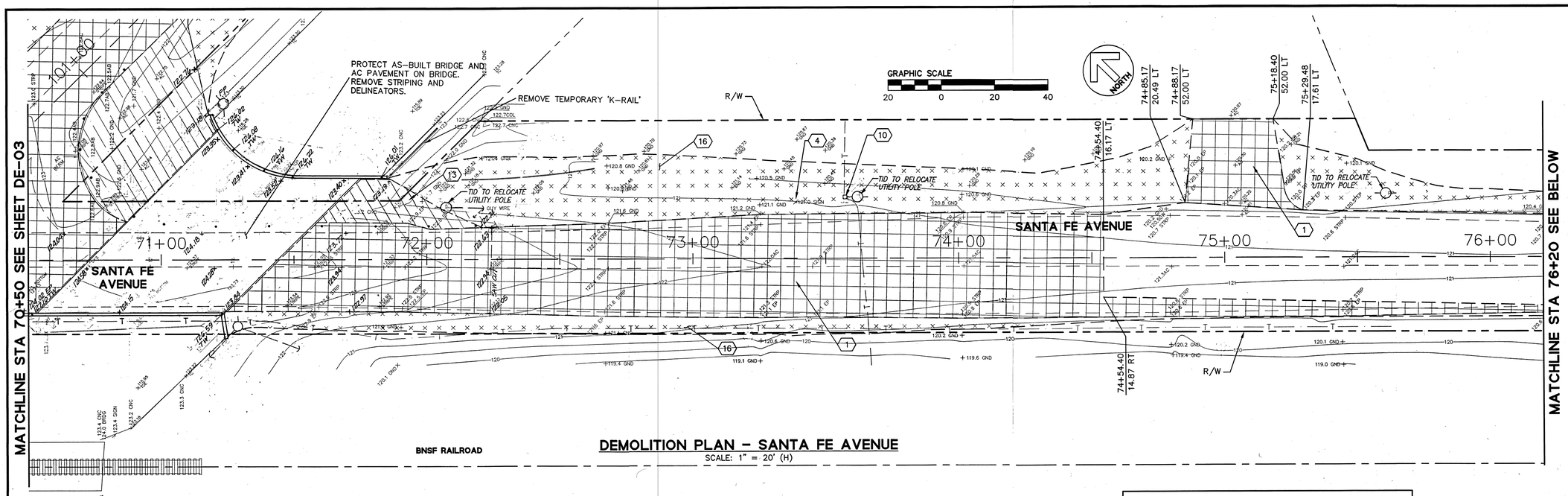
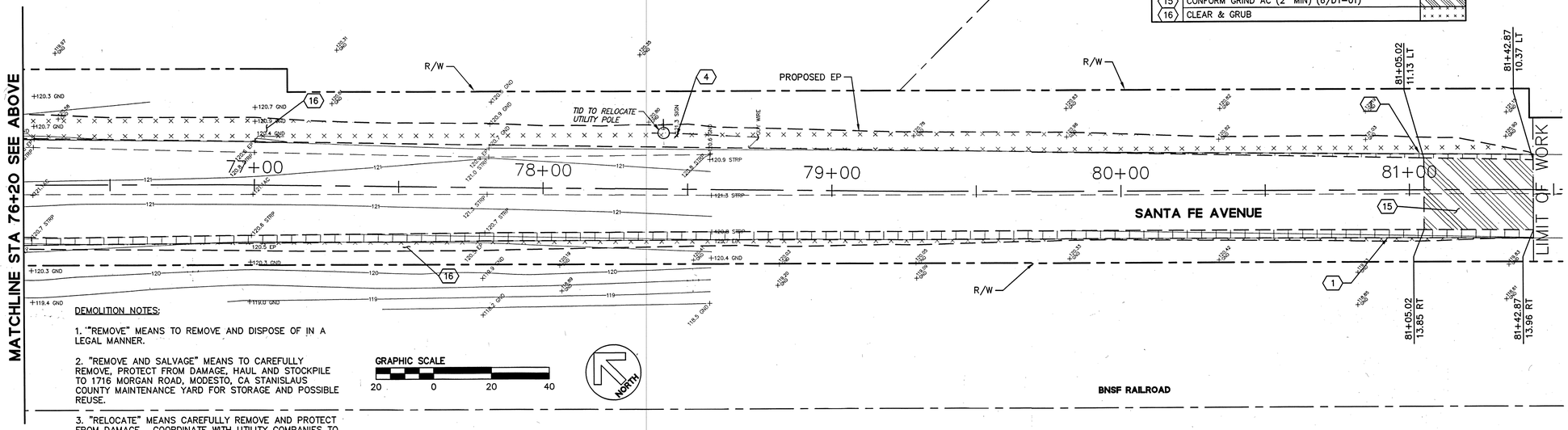


DEMOLITION PLAN – SANTA FE AVENUE

SCALE: 1" = 20' (H)

DEMOLITION ITEMS		
ITEM	DESCRIPTION OF WORK	HATCH
1	REMOVE AND/OR RE-USE ASPHALT AND AGGREGATE BASE. SEE NOTE 4.	
4	REMOVE AND SALVAGE TRAFFIC SIGN	
10	RELOCATE PHONE SERVICE PEDESTAL (BY AT&T)	
13	REMOVE TEMPORARY AC PAVEMENT	
15	CONFORM GRIND AC (2" MIN) (6/DT-01)	
16	CLEAR & GRUB	



DEMOLITION NOTES:

1. "REMOVE" MEANS TO REMOVE AND DISPOSE OF IN A LEGAL MANNER.

2. "REMOVE AND SALVAGE" MEANS TO CAREFULLY REMOVE, PROTECT FROM DAMAGE, HAUL AND STOCKPILE TO 1716 MORGAN ROAD, MODESTO, CA STANISLAUS COUNTY MAINTENANCE YARD FOR STORAGE AND POSSIBLE REUSE.

3. "RELOCATE" MEANS CAREFULLY REMOVE AND PROTECT FROM DAMAGE. COORDINATE WITH UTILITY COMPANIES TO IDENTIFY REINSTALLATION LOCATIONS

4. REMOVED ASPHALT & AGGREGATE BASE MAY BE RE-USED AS FILL OR SHOULDER BACKING OR RECYCLED AGGREGATE BASE IF IT MEETS THE PROJECT SPECIFICATIONS FOR EARTHWORK OR SHOULDER BACKING OR AGGREGATE BASE, RESPECTIVELY, OR AS DIRECTED BY THE COUNTY. OTHERWISE, REMOVE AND DISPOSE ASPHALT AGGREGATE BASE IN A LEGAL MANNER.

DEMOLITION PLAN – SANTA FE AVENUE

SCALE: 1" = 20' (H)

CALL BEFORE YOU DIG 1-800-227-2600 UNDERGROUND SERVICE ALERT

REGISTERED PROFESSIONAL ENGINEER ALEX HEIDER C 061027 EXP. 12/31/12 CIVIL STATE OF CALIFORNIA 11/8/12

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SACRAMENTO, CA 95814
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FAX: (916) 556-5899
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HATCH RD AND SANTA FE AVE – PHASE 3
DEMOLITION PLAN – SANTA FE AVENUE
EXISTING CONDITIONS

STANISLAUS COUNTY CALIFORNIA

No.	Revisions
1	ADD BRIDGE TOPO 1-29-15

Date: 11/9/2012
Scale: 1"=20'
Design: AM
Drawn: AM
Approved: JDL
Job No: 20060040-10

Drawing Number:
DE-04
7 OF 26

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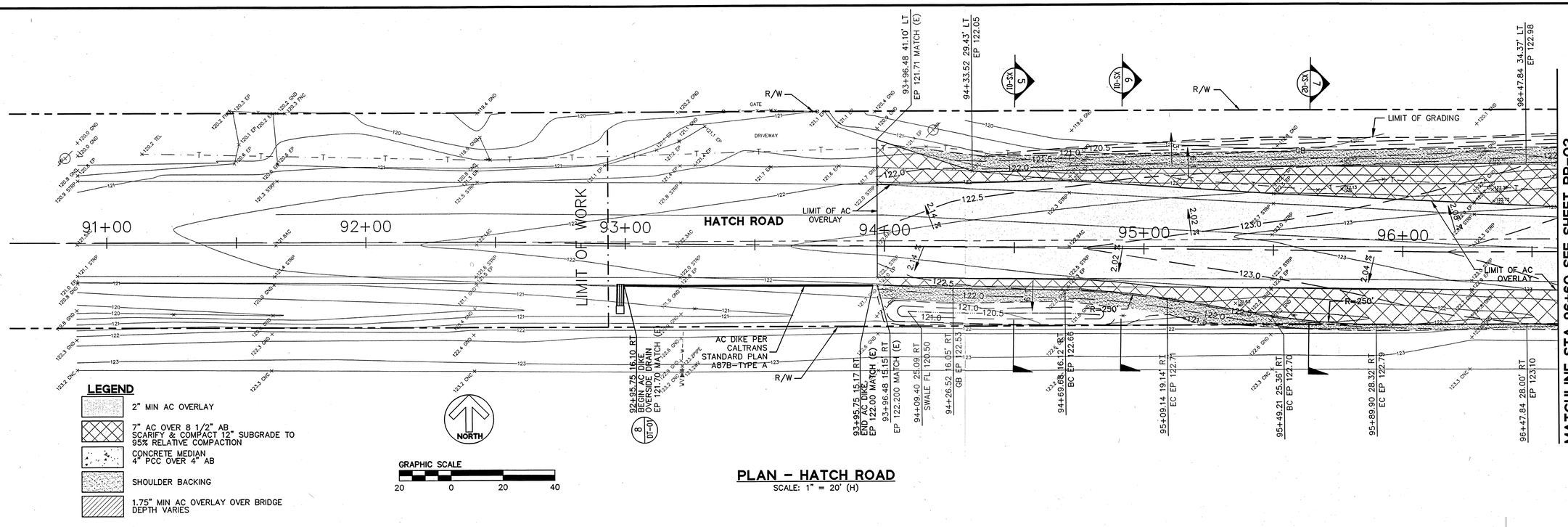
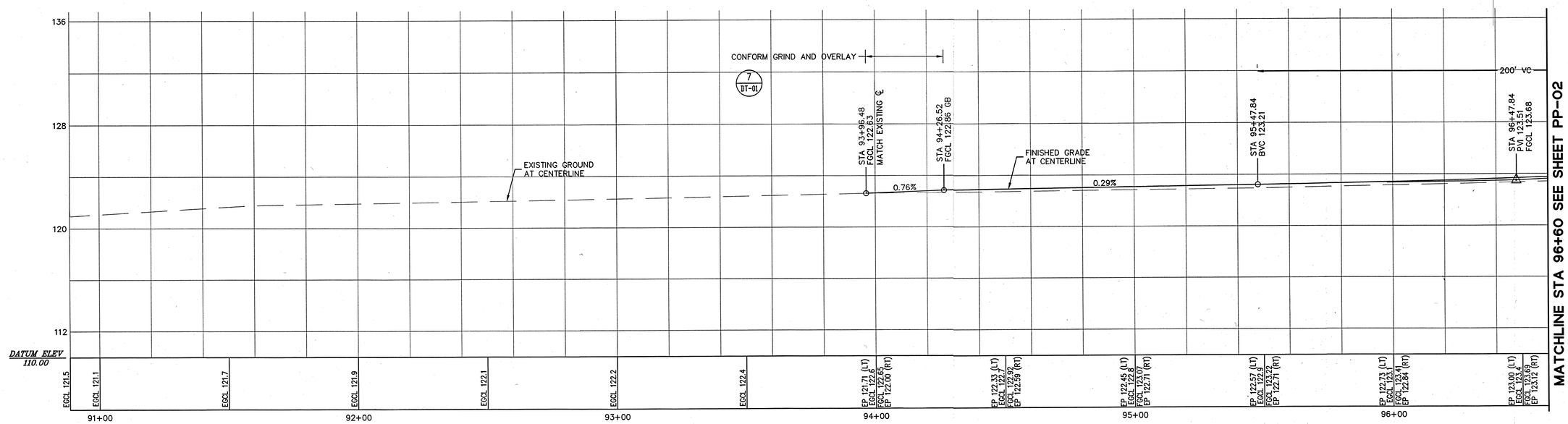


PLAN – HATCH ROAD

SCALE: 1" = 20' (H)



PROFILE – HATCH ROAD

SCALE: 1" = 20' (H)
1" = 4' (V)

CALL BEFORE YOU DIG 1-800-227-2600 Underground Service Alert

REGISTERED PROFESSIONAL ENGINEER ALEX HEUER C 061027 EXP.12/31/12 CIVIL STATE OF CALIFORNIA 11/8/12

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HATCH RD AND SANTA FE AVE – PHASE 3
PLAN AND PROFILE – HATCH ROAD
STATIONS 91+00 TO 96+60

STANISLAUS COUNTY CALIFORNIA

No.	Revisions

Date: 11/9/2012
Scale: 1"=20'
Design: JW
Drawn: AM
Approved: JL
Job No: 20045040-10

Drawing Number: PP-01

8 OF 26

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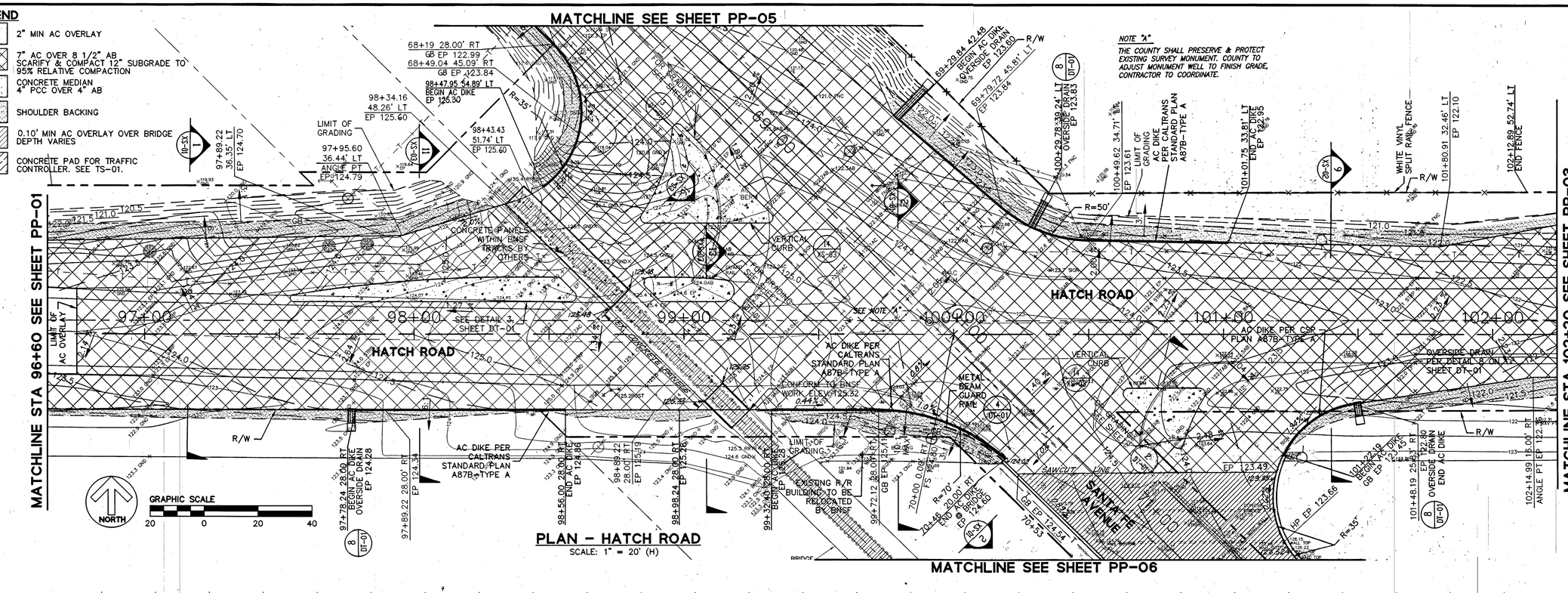
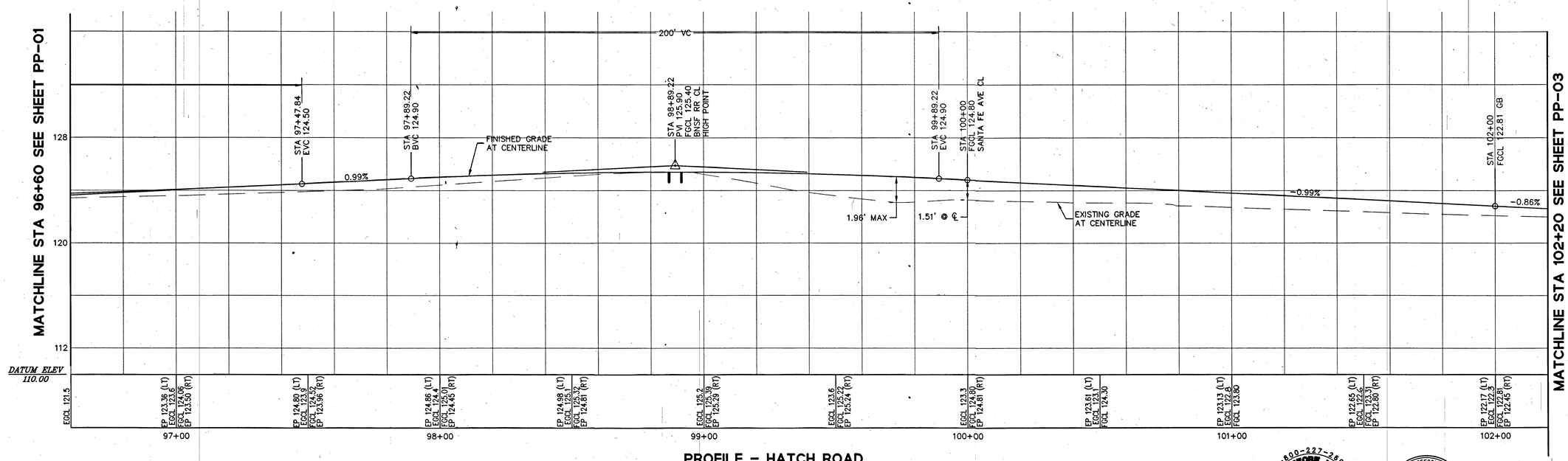
LEGEND

- 2" MIN AC OVERLAY
- 7" AC OVER 8 1/2" AB SCARIFY & COMPACT 12" SUBGRADE TO 95% RELATIVE COMPACTION
- CONCRETE MEDIAN 4" PCC OVER 4" AB
- SHOULDER BACKING
- 0.10' MIN AC OVERLAY OVER BRIDGE DEPTH VARIES
- CONCRETE PAD FOR TRAFFIC CONTROLLER. SEE TS-01.



PLAN - HATCH ROAD

SCALE: 1" = 20' (H)



PROFILE - HATCH ROAD

SCALE: 1" = 20' (H)
1" = 4' (V)

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HATCH RD AND SANTA FE AVE - PHASE 3
PLAN AND PROFILE - HATCH ROAD
STATIONS 96+60 TO 102+20

STANISLAUS COUNTY CALIFORNIA

Revisions	
1.	ADD CONC. R.R. PANELS AND CONCRETE PAD FOR RELOCATE TRAFFIC CONTROLLER 2-13-15
2.	6-10-15

Date: 11/9/2012
Scale: 1"=20'
Design: JW
Drawn: AM
Approved: JL
Job No: 20045040-10

Drawing Number: PP-02

9 OF 26

CALL BEFORE YOU DIG 1-800-227-2600

REGISTERED PROFESSIONAL ENGINEER ALEX HELDER C 061027 EXP. 12/31/12 CIVIL STATE OF CALIFORNIA 11/8/12

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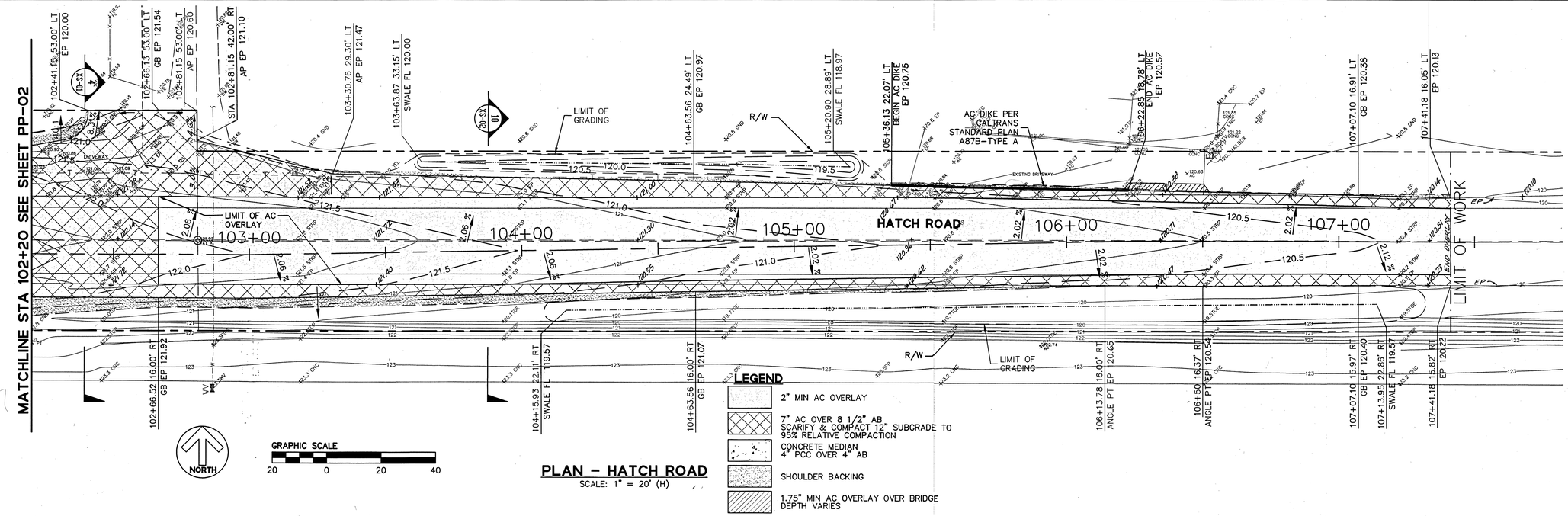
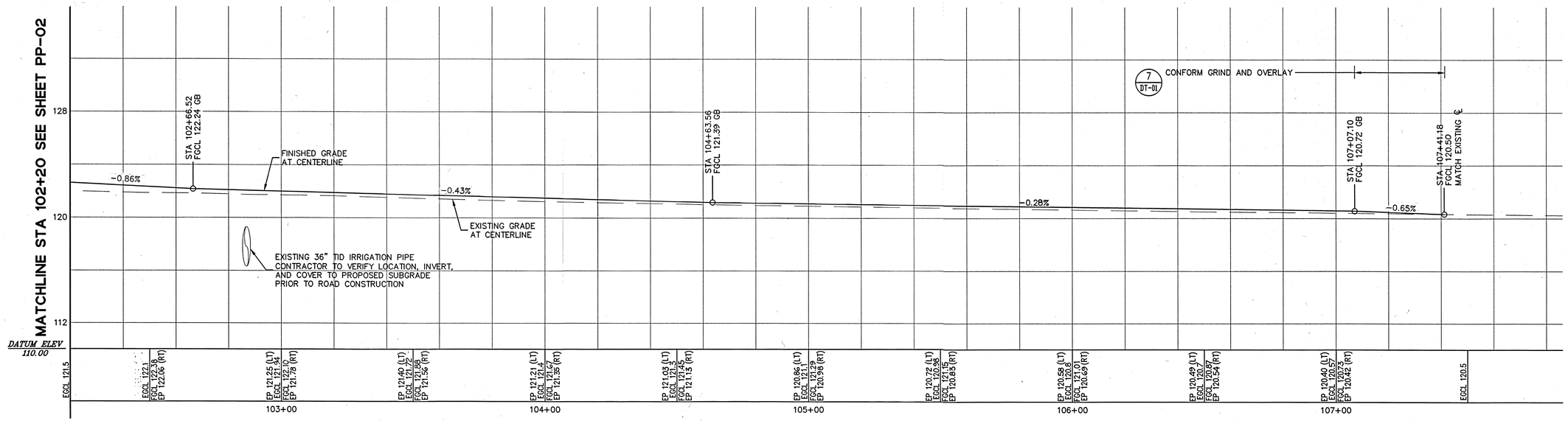


PLAN – HATCH ROAD

SCALE: 1" = 20' (H)

LEGEND

- 2" MIN AC OVERLAY
- 7" AC OVER 8 1/2" AB SCARIFY & COMPACT 12" SUBGRADE TO 95% RELATIVE COMPACTION
- CONCRETE MEDIAN 4" PCC OVER 4" AB
- SHOULDER BACKING
- 1.75" MIN AC OVERLAY OVER BRIDGE DEPTH VARIES



PROFILE – HATCH ROAD

SCALE: 1" = 20' (H)
1" = 4' (V)

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HATCH RD AND SANTA FE AVE – PHASE 3
PLAN AND PROFILE – HATCH ROAD
STATIONS 102+20 TO 107+00

STANISLAUS COUNTY CALIFORNIA

No.	Revisions
1.	ADD HATCH OVERLAY TOPO 2-13-15 ADD CONFORM GRINDING

Date: 11/9/2012
Scale: 1"=20'
Design: JW
Drawn: AM
Approved: JL
Job No: 20045040-10

Drawing Number:
PP-03
10 OF 26

CALL BEFORE YOU DIG 1-800-227-2600 UNDERGROUND SERVICE ALERT

REGISTERED PROFESSIONAL ENGINEER ALEX NEUER C 061027 EXP. 12/31/12 CIVIL STATE OF CALIFORNIA

11/8/12

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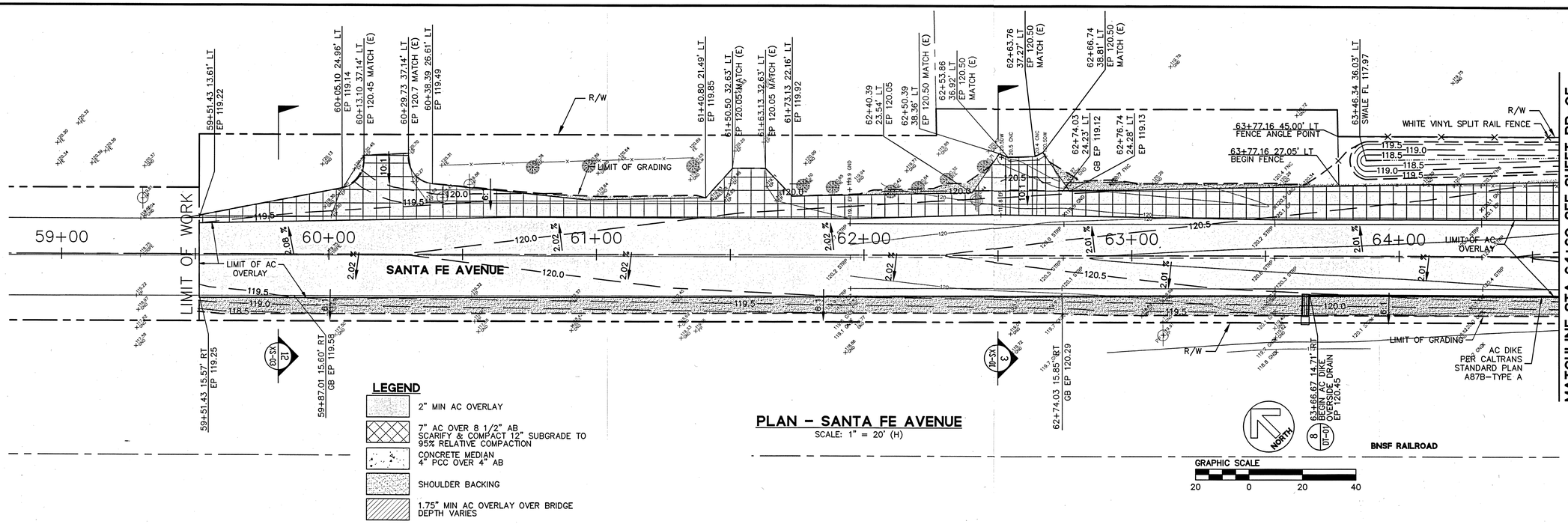
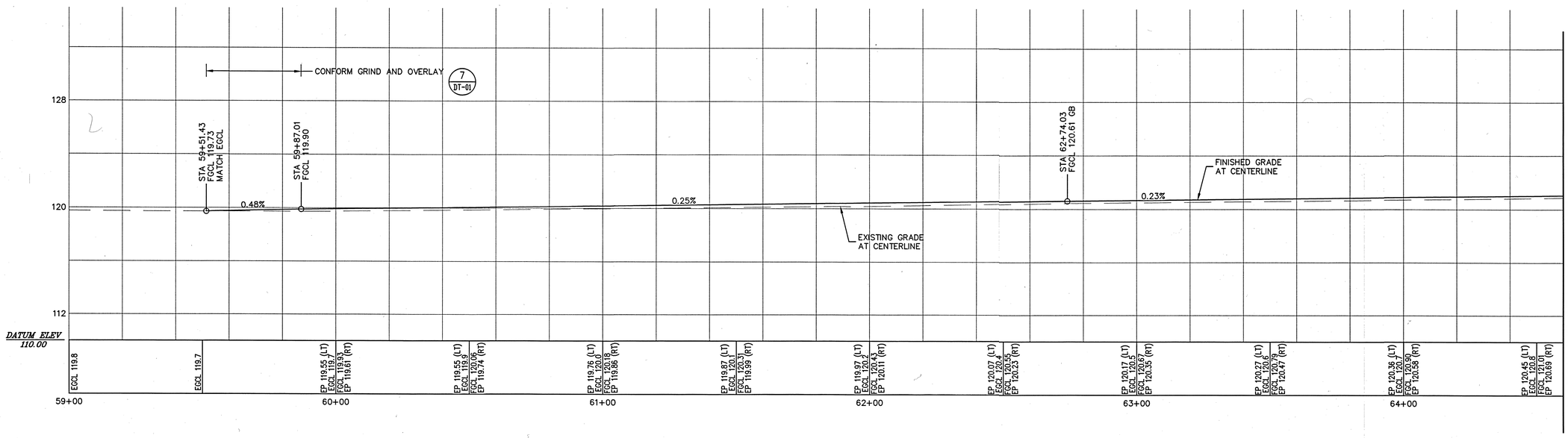


LEGEND

- 2" MIN AC OVERLAY
- 7" AC OVER 8 1/2" AB SCARIFY & COMPACT 12" SUBGRADE TO 95% RELATIVE COMPACTION
- CONCRETE MEDIAN 4" PCC OVER 4" AB
- SHOULDER BACKING
- 1.75" MIN AC OVERLAY OVER BRIDGE DEPTH VARIES

PLAN – SANTA FE AVENUE

SCALE: 1" = 20' (H)



PROFILE – SANTA FE AVENUE

SCALE: 1" = 20' (H)
1" = 4' (V)

CALL BEFORE YOU DIG 1-800-227-2600 UNDERGROUND SERVICE ALERT

REGISTERED PROFESSIONAL ENGINEER ALEX HEUER C 061027 EXP.12/31/12 CIVIL STATE OF CALIFORNIA 11/8/12

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HATCH RD AND SANTA FE AVE – PHASE 3
PLAN AND PROFILE – SANTA FE AVENUE
STATIONS 59+00 TO 64+60

STANISLAUS COUNTY CALIFORNIA

No.	Revisions

Date: 11/9/2012
Scale: 1"=20'
Design: JW
Drawn: AM
Approved: JL
Job No: 20045040-10

Drawing Number:
PP-04

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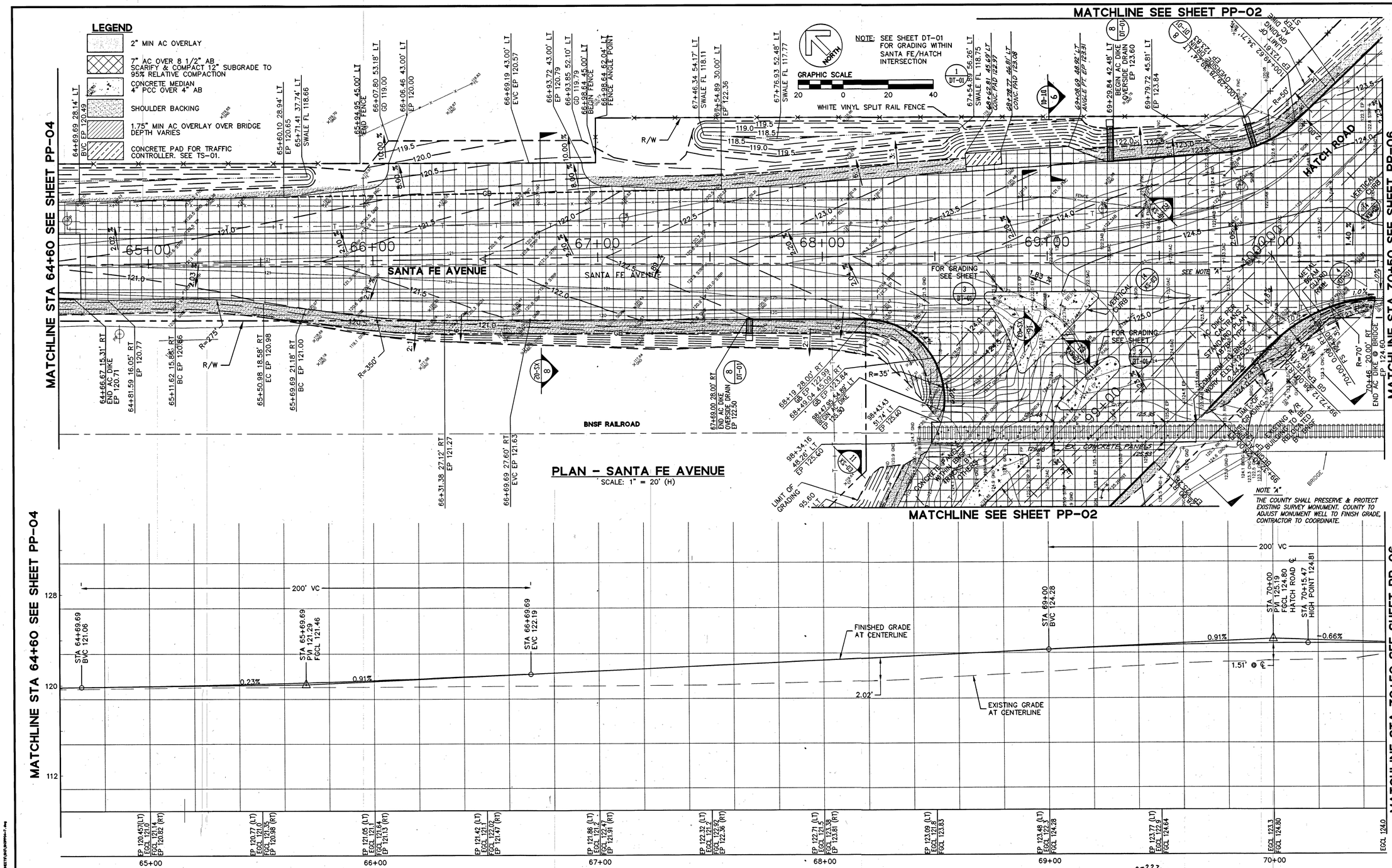

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SANTA FE AVE - PHASE 3
HATCH RD AND SANTA FE AVENUE
PLAN AND PROFILE - STATIONS 64+60 TO 70+50

STANISLAUS COUNTY CALIFORNIA

MATCHLINE STA 64+60 SEE SHEET PP-04

MATCHLINE STA 70+50 SEE SHEET PP-06

Revisions	
No.	
1.	ADD CONC. R.R. PANELS AND 2-12-15 REVISE GRADE
2.	RELOCATE TRAFFIC CONTROLLER 4-10-15

Date: 11/9/2012
Scale: 1"=20'
Design: JW
Drawn: AM
Approved: JL
Job No: 20045040-10

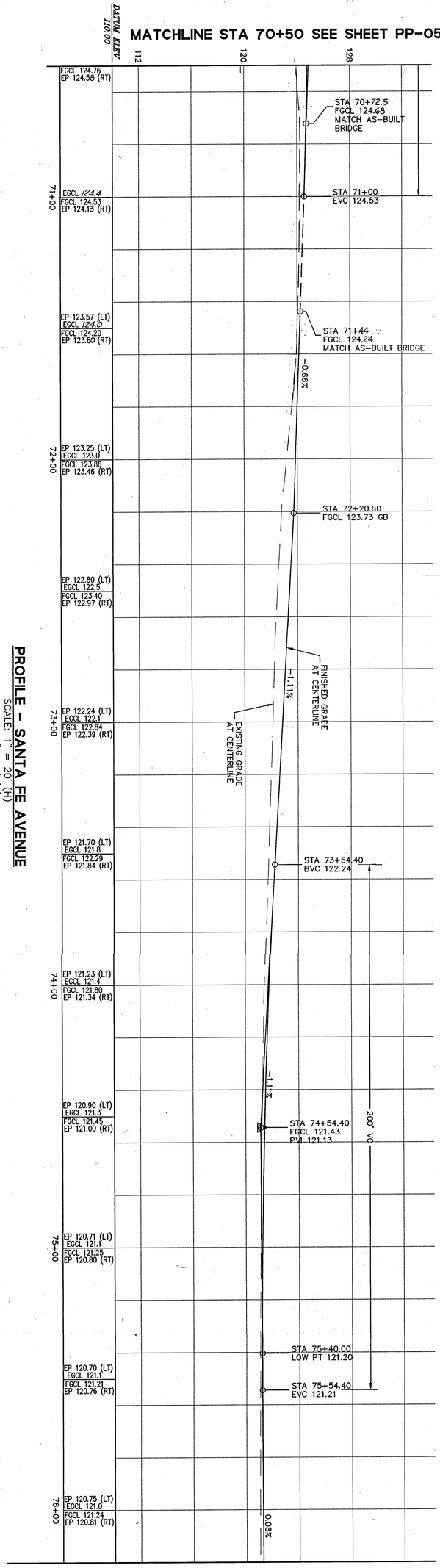
Drawing Number:
PP-05

CALL BEFORE YOU DIG 1-800-227-2600

REGISTERED PROFESSIONAL ENGINEER ALEX HEUER C 65102 EXP. 12/31/12 CIVIL STATE OF CALIFORNIA

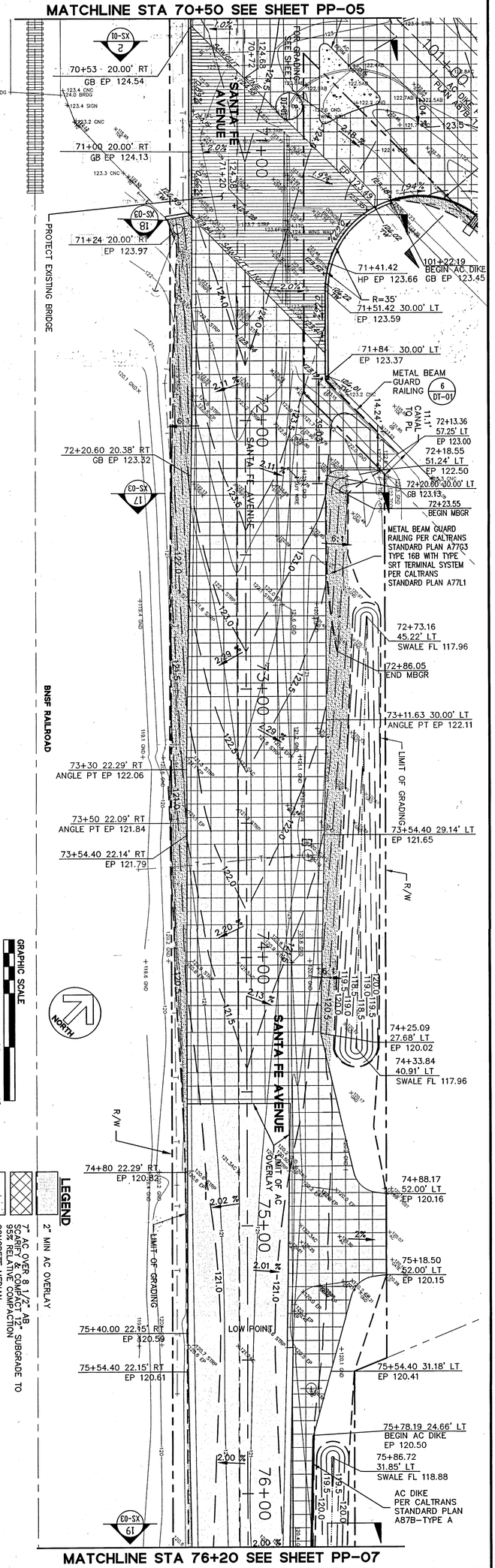
11/8/12

DRAWING NAME: P:\Stuff\20045040\DWG\SHEETS\DT\BKFPP04-7.dwg
PLOT TIME: 11:30AM
PLOTTED BY: shell



PROFILE - SANTA FE AVENUE

SCALE: 1" = 20' (H)
1" = 4' (V)



PLAN - SANTA FE AVENUE

SCALE: 1" = 20' (H)

GRAPHIC SCALE 20 0 20 40

LEGEND

- 2" MIN AC OVERLAY
- 7" AC OVER 8 1/2" AB SCARIFY & COMPACT 12" SUBGRADE TO 95% RELATIVE COMPACTION 4" PCC OVER 4" AB
- SHOULDER BACKING
- 0.10' MIN AC OVERLAY OVER BRIDGE DEPTH VARIES

CALL BEFORE YOU DIG 1-800-227-2600 UNDERGROUND SERVICE ALERT

REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA CIVIL 11/9/12

Date: 11/9/2012	No.	Revisions
Scale: 1"=20'	1.	ADD BRIDGE TOPO AND REVISE GRADES 2-12-15
Design: JW		
Drawn: AM		
Approved: JL		
Job No: 20045040-10		

Drawing Number: PP-06

13 of 26

HATCH RD AND SANTA FE AVE - PHASE 3
PLAN AND PROFILE - SANTA FE AVENUE
STATIONS 70+50 TO 76+20

STANISLAUS COUNTY CALIFORNIA

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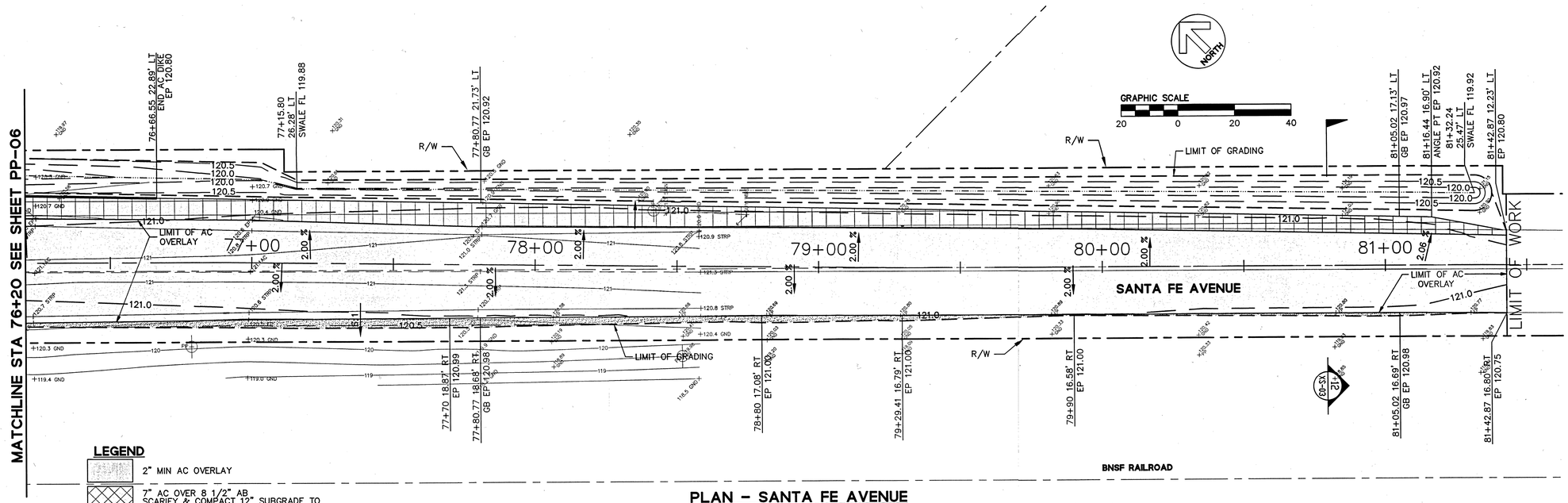
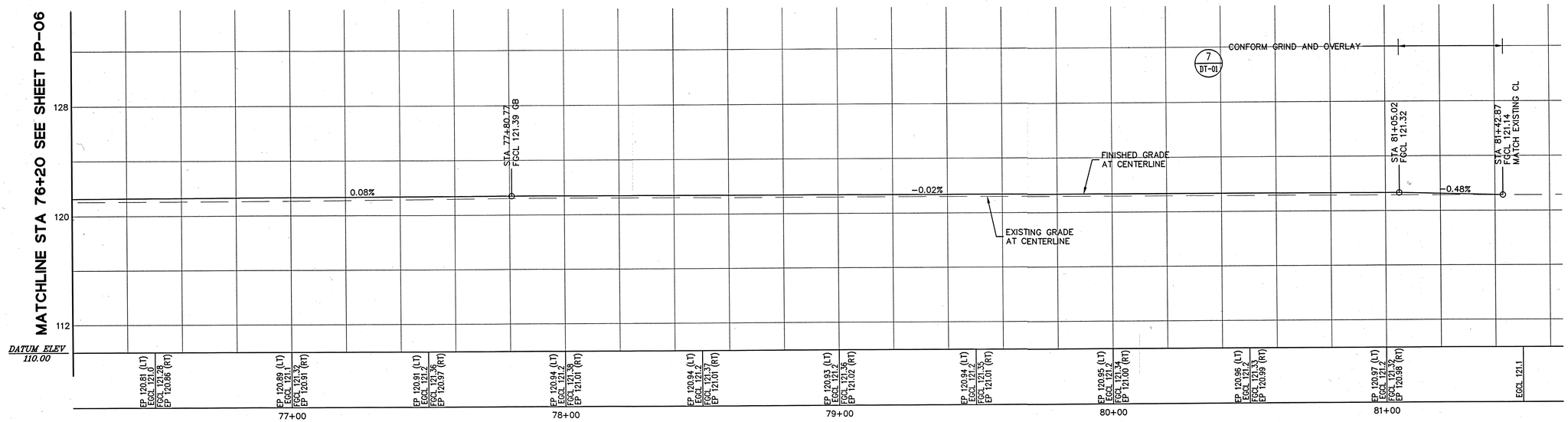


LEGEND

- 2" MIN AC OVERLAY
- 7" AC OVER 8 1/2" AB SCARIFY & COMPACT 12" SUBGRADE TO 95% RELATIVE COMPACTION
- CONCRETE MEDIAN 4" PCC OVER 4" AB
- SHOULDER BACKING
- 1.75" MIN AC OVERLAY OVER BRIDGE DEPTH VARIES

PLAN – SANTA FE AVENUE

SCALE: 1" = 20' (H)



PROFILE – SANTA FE AVENUE

SCALE: 1" = 20' (H)
1" = 4' (V)

CALL BEFORE YOU DIG 1-800-227-2600 UNDERGROUND SERVICE ALERT

REGISTERED PROFESSIONAL ENGINEER ALEX HEUER C 61047 EXP.12/31/12 CIVIL STATE OF CALIFORNIA 11/8/12

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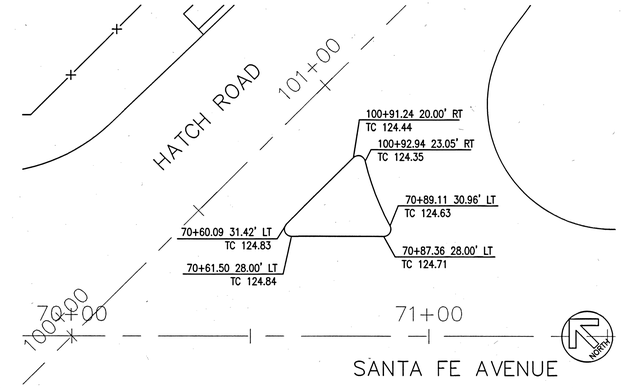
HATCH RD AND SANTA FE AVE – PHASE 3
PLAN AND PROFILE – SANTA FE AVENUE
STATIONS 76+20 TO 81+00

STANISLAUS COUNTY CALIFORNIA

No.	Revisions

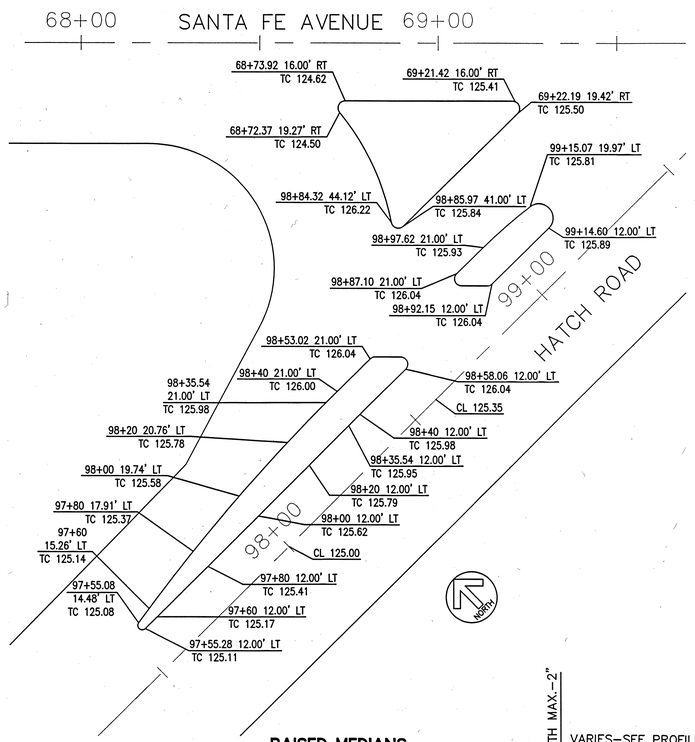
Date: 11/9/2012
Scale: 1"=20'
Design: JW
Drawn: AM
Approved: JL
Job No: 20045040-10

Drawing Number:
PP-07
14 OF 26



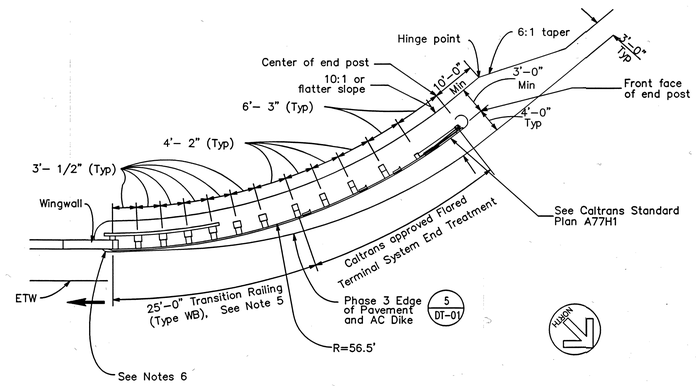
2 / DT-01 RAISED MEDIAN GRADING DETAIL

SCALE: 1" = 20'

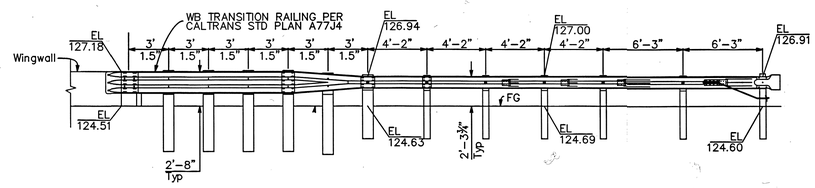


3 / DT-01 RAISED MEDIANS GRADING DETAIL

SCALE: 1" = 20'



PLAN



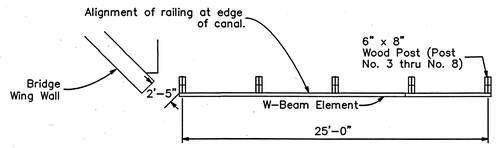
ELEVATION

NOTES:

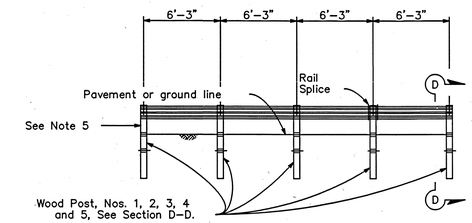
1. LINE POST, BLOCKS AND HARDWARE TO BE USED ARE SHOWN ON STANDARD PLANS A77A1, A77A2, A77B1, A77C1 AND A77C2. HEIGHT OF GUARD RAIL ABOVE SURFACE WILL VARY, SEE ELEVATION
2. GUARD RAIL POST SPACING TO BE 6'-3" CENTER TO CENTER, EXCEPT AS OTHERWISE NOTED.
3. EXCEPT AS NOTED, LINE POSTS ARE 6" X 8" X 7'-3" WOOD WITH 6" X 8" X 1'-2" WOOD BLOCKS. W6 X 9 STEEL POSTS, 7'-3" IN LENGTH, WITH 6" X 8" X 1'-2" NOTCHED WOOD BLOCKS OR PLASTIC BLOCKS MAY BE USED FOR 6" X 8" X 7'-3" WOOD POSTS WITH 6" X 8" X 1'-2" WOOD BLOCKS WHERE APPLICABLE AND WHEN SPECIFIED.
4. DIRECTION OF ADJACENT TRAFFIC INDICATED BY ⟶.
5. FOR TRANSITION RAILING (TYPE WB) DETAILS FOR TYPES 12A AND 12B LAYOUTS, SEE STANDARD PLAN A77J4.
6. FOR ADDITIONAL DETAILS OF TYPICAL CONNECTIONS TO BRIDGE RAIL, SEE CONNECTION DETAIL AA ON REVISED STANDARD PLANS RSP A77J1 AND RSP A77J2

4 / DT-01 METAL BEAM GUARD RAILING OFF OF NW WING WALL OF CULVERT

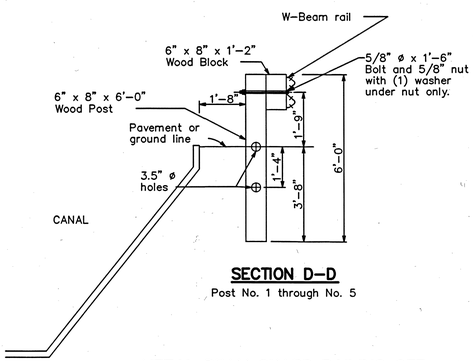
NTS



PLAN



ELEVATION

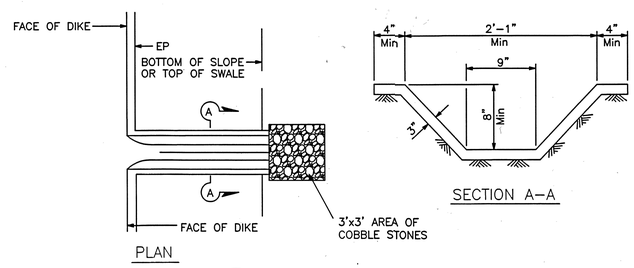


SECTION D-D

Post No. 1 through No. 5

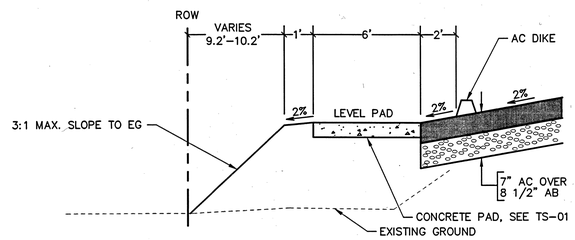
6 / DT-01 METAL BEAM GUARD RAILING OFF OF SE WING WALL OF CULVERT

NTS



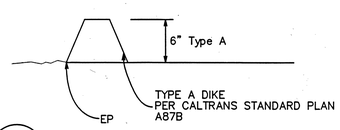
8 / DT-01 OVERSIDE DRAIN

NTS



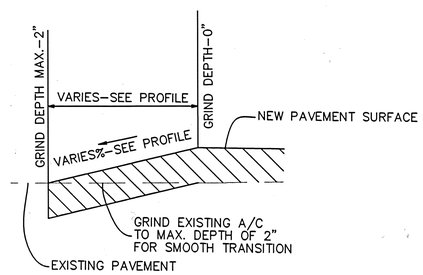
9 / DT-01 CONCRETE TRAFFIC PAD

NTS



5 / DT-01 AC DIKE TYPE A

NTS



7 / DT-01 CONFORM GRIND - 2" MAX.

NTS

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HATCH RD AND SANTA FE AVE - PHASE 3 GRADING DETAILS

STANISLAUS COUNTY CALIFORNIA

Revisions	No.

Date: 11/9/2012
Scale: 1"=20'
Design:AH
Drawn:CT
Approved:JL
Job No:20045040-10

Drawing Number:

DT-01

15 OF 26

CALL BEFORE YOU DIG 1-800-227-2600 UNDERGROUND SERVICE ALERT

REGISTERED PROFESSIONAL ENGINEER ALEX HEIDER C 61027 EXP.12/31/12 CIVIL STATE OF CALIFORNIA

11/13/12

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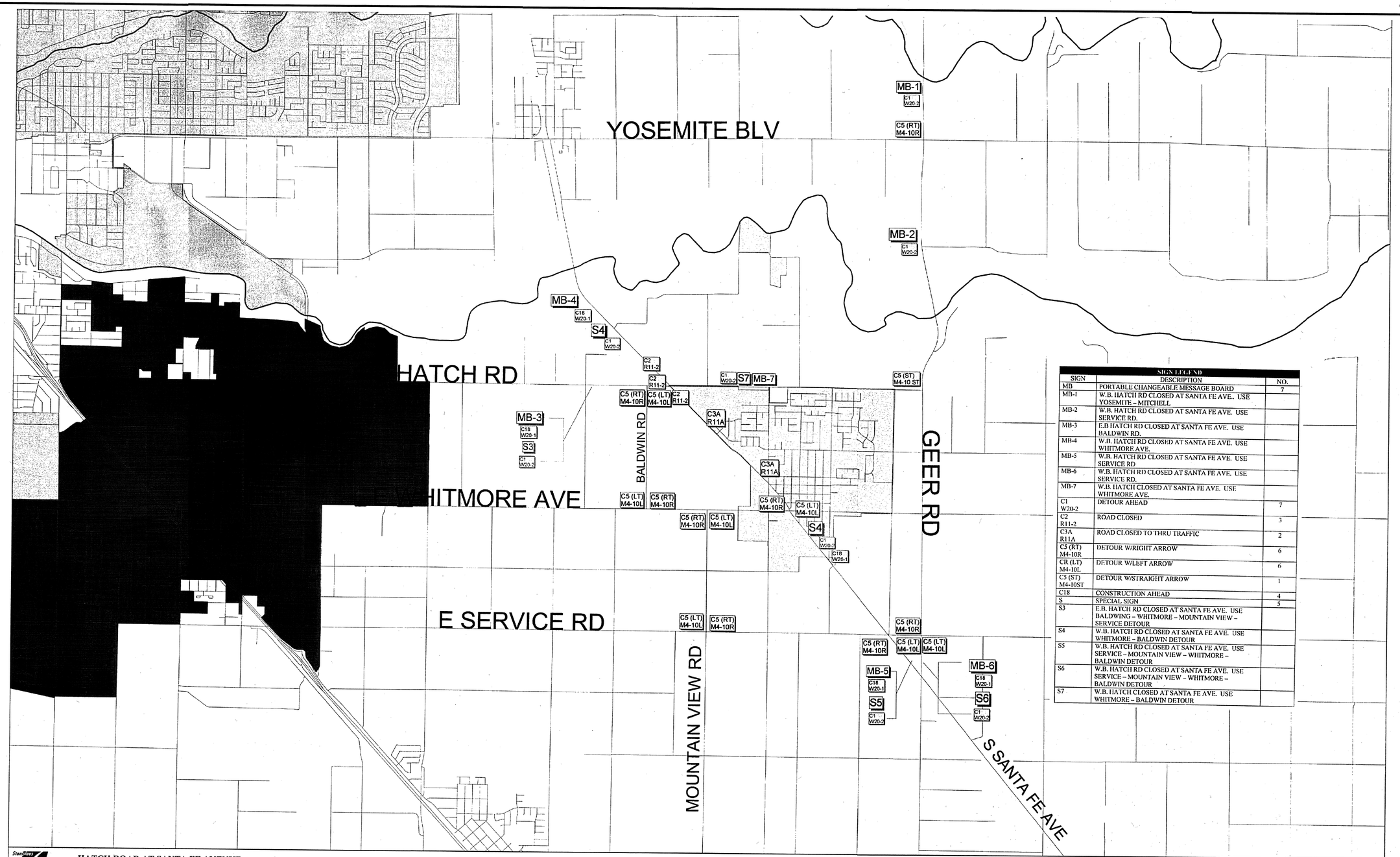

SIGN LEGEND		
SIGN	DESCRIPTION	NO.
MB	PORTABLE CHANGEABLE MESSAGE BOARD	7
MB-1	W.B. HATCH RD CLOSED AT SANTA FE AVE.. USE YOSEMITE – MITCHELL	
MB-2	W.B. HATCH RD CLOSED AT SANTA FE AVE. USE SERVICE RD.	
MB-3	E.B HATCH RD CLOSED AT SANTA FE AVE. USE BALDWIN RD.	
MB-4	W.B. HATCH RD CLOSED AT SANTA FE AVE. USE WHITMORE AVE.	
MB-5	W.B. HATCH RD CLOSED AT SANTA FE AVE. USE SERVICE RD	
MB-6	W.B. HATCH RD CLOSED AT SANTA FE AVE. USE SERVICE RD.	
MB-7	W.B. HATCH CLOSED AT SANTA FE AVE. USE WHITMORE AVE.	
C1 W20-2	DETOUR AHEAD	7
C2 R11-2	ROAD CLOSED	3
C3A R11A	ROAD CLOSED TO THRU TRAFFIC	2
C5 (RT) M4-10R	DETOUR W/RIGHT ARROW	6
CR (LT) M4-10L	DETOUR W/LEFT ARROW	6
C5 (ST) M4-10ST	DETOUR W/STRAIGHT ARROW	1
CI8	CONSTRUCTION AHEAD	4
S	SPECIAL SIGN	5
S3	E.B. HATCH RD CLOSED AT SANTA FE AVE. USE BALDWING – WHITMORE – MOUNTAIN VIEW – SERVICE DETOUR	
S4	W.B. HATCH RD CLOSED AT SANTA FE AVE. USE WHITMORE – BALDWIN DETOUR	
S5	W.B. HATCH RD CLOSED AT SANTA FE AVE. USE SERVICE – MOUNTAIN VIEW – WHITMORE – BALDWIN DETOUR	
S6	W.B. HATCH RD CLOSED AT SANTA FE AVE. USE SERVICE – MOUNTAIN VIEW – WHITMORE – BALDWIN DETOUR	
S7	W.B. HATCH CLOSED AT SANTA FE AVE. USE WHITMORE – BALDWIN DETOUR	

HATCH ROAD AT SANTA FE AVENUE

Intersection Improvements

Phase 1 Detour Plan

830 0 830 1660 Feet

This map is for display purposes only. Map prepared 12/12/2008

Public Works Stanislaus County

1-800-227-2600 CALL BEFORE YOU DIG USA UNDERGROUND SERVICE ALERT

REGISTERED PROFESSIONAL ENGINEER ALEX HEIVER C 061027 EXP. 12/31/12 CIVIL STATE OF CALIFORNIA

11/8/12

980 9TH STREET, SUITE 1770
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PH: (916) 556-5600
FAX: (916) 556-5699

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HATCH RD AND SANTA FE AVE – PHASE 3 DETOUR PLAN

STANISLAUS COUNTY CALIFORNIA

Revisions

No.	

Date: 11/9/2012
Scale: NONE
Design: AH
Drawn: AH
Approved: JDL
Job No: 20045040-10

Drawing Number:

DT-02

16 OF 26

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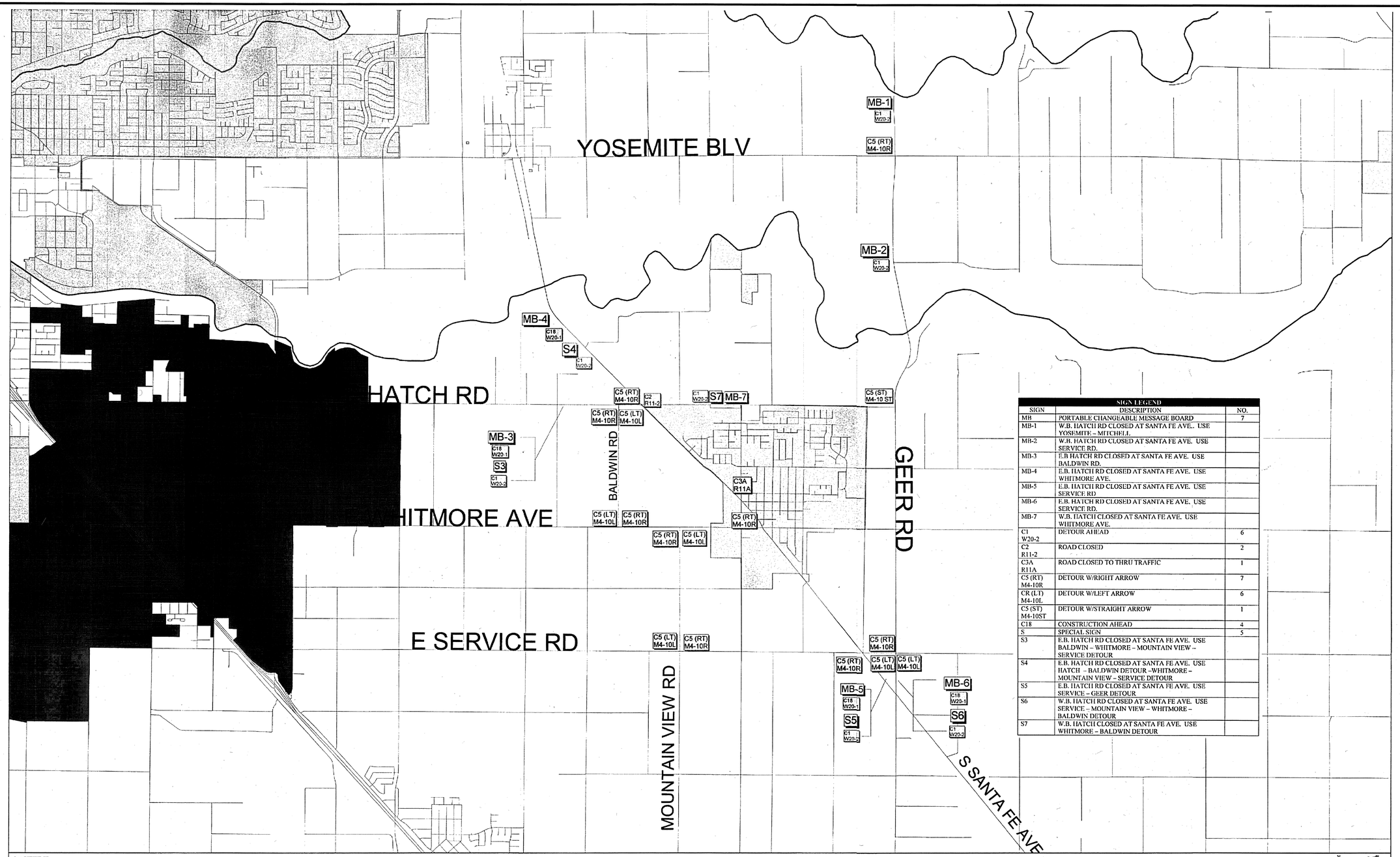

SIGN LEGEND		
SIGN	DESCRIPTION	NO.
MB	PORTABLE CHANGEABLE MESSAGE BOARD	7
MB-1	W.B. HATCH RD CLOSED AT SANTA FE AVE.. USE YOSEMITE – MITCHELL	
MB-2	W.B. HATCH RD CLOSED AT SANTA FE AVE. USE SERVICE RD.	
MB-3	E.B HATCH RD CLOSED AT SANTA FE AVE. USE BALDWIN RD.	
MB-4	E.B. HATCH RD CLOSED AT SANTA FE AVE. USE WHITMORE AVE.	
MB-5	E.B. HATCH RD CLOSED AT SANTA FE AVE. USE SERVICE RD	
MB-6	E.B. HATCH RD CLOSED AT SANTA FE AVE. USE SERVICE RD.	
MB-7	W.B. HATCH CLOSED AT SANTA FE AVE. USE WHITMORE AVE.	
C1 W20-2	DETOUR AHEAD	6
C2 R11-2	ROAD CLOSED	2
C3A R11A	ROAD CLOSED TO THRU TRAFFIC	1
C5 (RT) M4-10R	DETOUR W/RIGHT ARROW	7
CR (LT) M4-10L	DETOUR W/LEFT ARROW	6
C5 (ST) M4-10ST	DETOUR W/STRAIGHT ARROW	1
C18	CONSTRUCTION AHEAD	4
S	SPECIAL SIGN	5
S3	E.B. HATCH RD CLOSED AT SANTA FE AVE. USE BALDWIN – WHITMORE – MOUNTAIN VIEW – SERVICE DETOUR	
S4	E.B. HATCH RD CLOSED AT SANTA FE AVE. USE HATCH – BALDWIN DETOUR –WHITMORE – MOUNTAIN VIEW – SERVICE DETOUR	
S5	E.B. HATCH RD CLOSED AT SANTA FE AVE. USE SERVICE – GEER DETOUR	
S6	W.B. HATCH RD CLOSED AT SANTA FE AVE. USE SERVICE – MOUNTAIN VIEW – WHITMORE – BALDWIN DETOUR	
S7	W.B. HATCH CLOSED AT SANTA FE AVE. USE WHITMORE – BALDWIN DETOUR	

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HATCH RD AND SANTA FE AVE – PHASE 3 DETOUR PLAN

STANISLAUS COUNTY CALIFORNIA

No.	Revisions

Date: 11/9/2012
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DT-03
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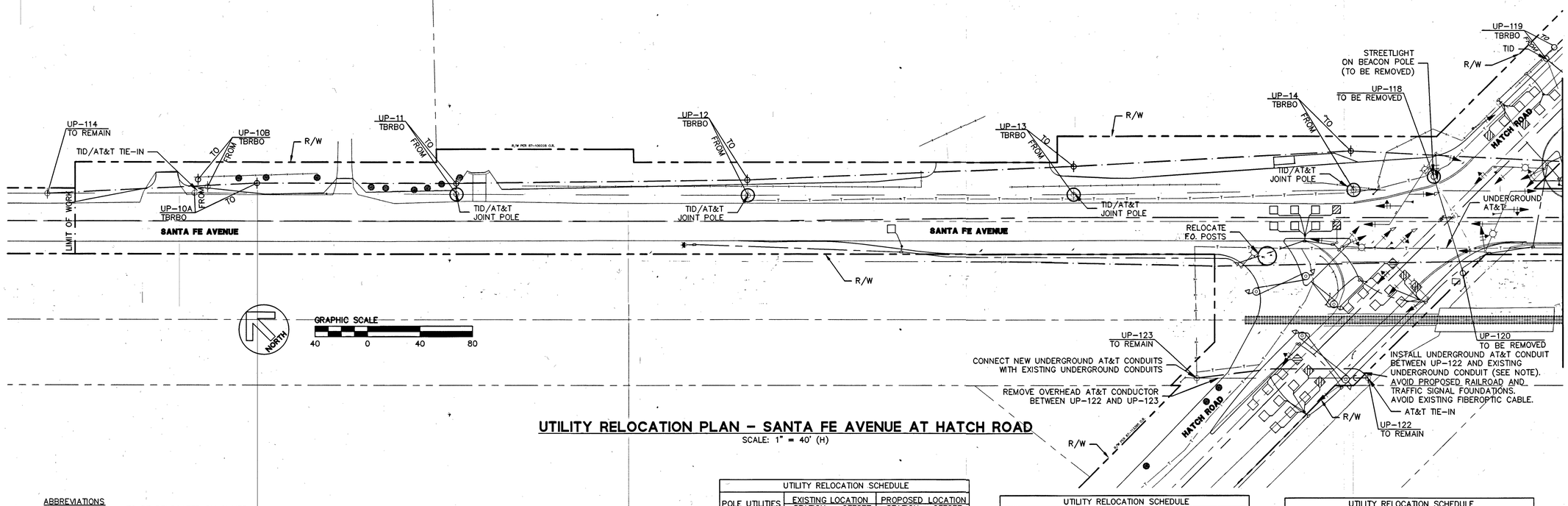


UTILITY RELOCATION PLAN – SANTA FE AVENUE AT HATCH ROAD

SCALE: 1" = 40' (H)

ABBREVIATIONS

TBRBO	TO BE RELOCATED BY OWNER
UP-#	UTILITY POLE – ID#
TID	TURLOCK IRRIGATION DISTRICT
BNSF	BURLINGTON NORTHERN SANTA FE RAILROAD

UTILITY RELOCATION SCHEDULE

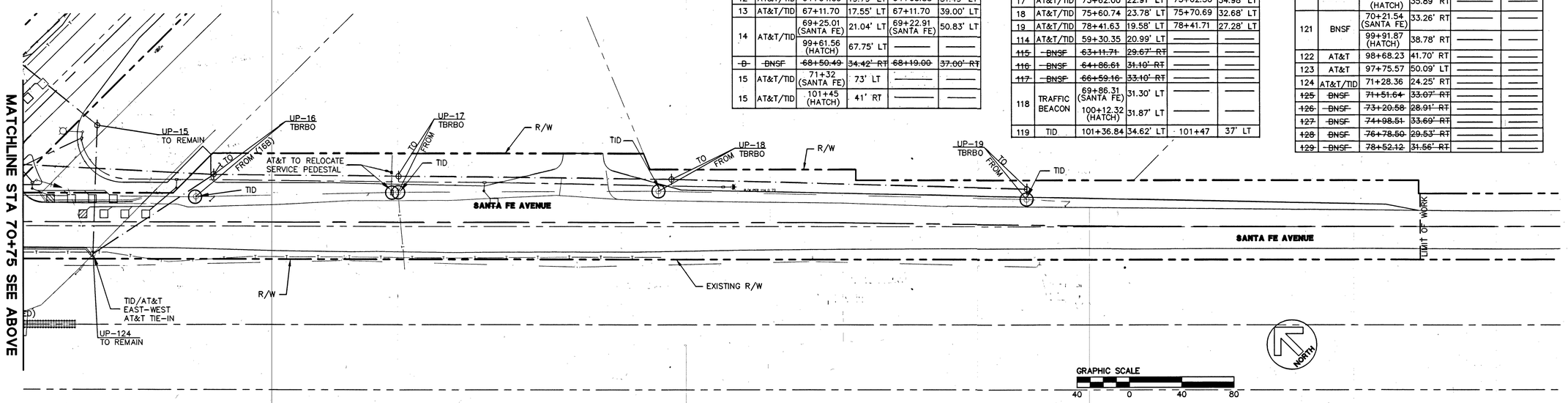
POLE	UTILITIES	EXISTING LOCATION STATION	EXISTING LOCATION OFFSET	PROPOSED LOCATION STATION	PROPOSED LOCATION OFFSET
10A	AT&T/TID	60+42.45	21.46' LT	60+90.16	29.04' LT
10B	AT&T	60+52.51	26.32' LT	60+45.20	31.73' LT
11	AT&T/TID	62+42.22	20.58' LT	62+41.97	28.89' LT
12	AT&T/TID	64+64.09	19.79' LT	64+63.88	31.49' LT
13	AT&T/TID	67+11.70	17.55' LT	67+11.70	39.00' LT
14	AT&T/TID	69+25.01 (SANTA FE)	21.04' LT	69+22.91 (SANTA FE)	50.83' LT
		99+61.56 (HATCH)	67.75' LT	—	—
~~B~~	~~BNSF~~	~~68+50.49~~	~~34.42' RT~~	~~68+19.00~~	~~37.00' RT~~
15	AT&T/TID	71+32 (SANTA FE)	73' LT	—	—
15	AT&T/TID	101+45 (HATCH)	41' RT	—	—

UTILITY RELOCATION SCHEDULE

POLE	UTILITIES	EXISTING LOCATION STATION	EXISTING LOCATION OFFSET	PROPOSED LOCATION STATION	PROPOSED LOCATION OFFSET
~~16A~~	~~AT&T/TID~~	~~17+73.42~~	~~19.46' LT~~	~~72+20.77~~	~~36.18' LT~~
16B	AT&T/TID	72+07.25	20.46' RT	72+20.77	36.18' LT
17	AT&T/TID	73+62.00	22.91' LT	73+62.30	34.98' LT
18	AT&T/TID	75+60.74	23.78' LT	75+70.69	32.68' LT
19	AT&T/TID	78+41.63	19.58' LT	78+41.71	27.28' LT
114	AT&T/TID	59+30.35	20.99' LT	—	—
~~115~~	~~BNSF~~	~~63+11.71~~	~~29.67' RT~~	—	—
~~116~~	~~BNSF~~	~~64+86.61~~	~~31.10' RT~~	—	—
~~117~~	~~BNSF~~	~~66+59.16~~	~~33.10' RT~~	—	—
118	TRAFFIC BEACON	69+86.31 (SANTA FE)	31.30' LT	—	—
		100+12.32 (HATCH)	31.87' LT	—	—
119	TID	101+36.84	34.62' LT	101+47	37' LT

UTILITY RELOCATION SCHEDULE

POLE	UTILITIES	EXISTING LOCATION STATION	EXISTING LOCATION OFFSET	PROPOSED LOCATION STATION	PROPOSED LOCATION OFFSET
120	TRAFFIC BEACON	70+08.36 (SANTA FE)	42.26' RT	—	—
		99+76.18 (HATCH)	35.89' RT	—	—
121	BNSF	70+21.54 (SANTA FE)	33.26' RT	—	—
		99+91.87 (HATCH)	38.78' RT	—	—
122	AT&T	98+68.23	41.70' RT	—	—
123	AT&T	97+75.57	50.09' LT	—	—
124	AT&T/TID	71+28.36	24.25' RT	—	—
~~125~~	~~BNSF~~	~~71+51.64~~	~~33.07' RT~~	—	—
~~126~~	~~BNSF~~	~~73+20.58~~	~~28.91' RT~~	—	—
~~127~~	~~BNSF~~	~~74+98.51~~	~~33.69' RT~~	—	—
~~128~~	~~BNSF~~	~~76+78.50~~	~~29.53' RT~~	—	—
~~129~~	~~BNSF~~	~~78+52.12~~	~~31.56' RT~~	—	—



UTILITY RELOCATION PLAN – SANTA FE AVENUE AT HATCH ROAD

SCALE: 1" = 40' (H)

NOTE:
TID, CHARTER COMMUNICATIONS, AND MOST AT&T UTILITY RELOCATION WORK WILL BE COMPLETE PRIOR TO START OF CONSTRUCTION. UNDERGROUND AT&T CONDUIT INSTALLATION ACROSS HATCH ROAD, BETWEEN POLES UP-122 AND UP-123, IS IN CONTRACTOR'S SCOPE OF WORK, INCLUDING TRENCHING, CONDUITS, PULL CABLES, AND BACKFILL. BNSF TO RELOCATE THEIR OWN UTILITIES DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH BNSF WITH REGARDS TO SCHEDULING RELOCATION OF THEIR UTILITIES DURING THE WIDENING OF THE BNSF RAILROAD CROSSING.

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HATCH RD AND SANTA FE AVE – PHASE 3
UTILITY RELOCATION PLAN

STANISLAUS COUNTY CALIFORNIA

No.	Revisions

Date: 11/9/2012
Scale: 1"=40'
Design: AH
Drawn: AH
Approved: JDL
Job No: 2004540-10

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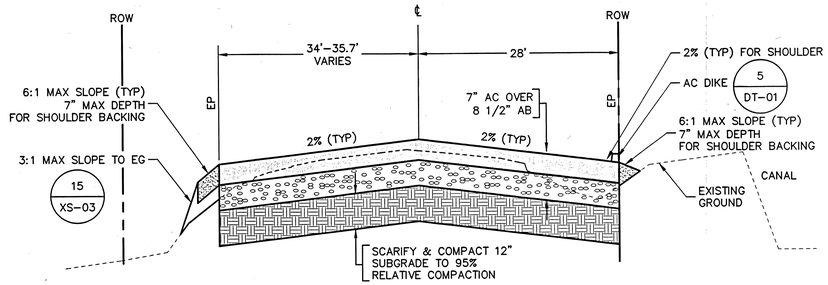
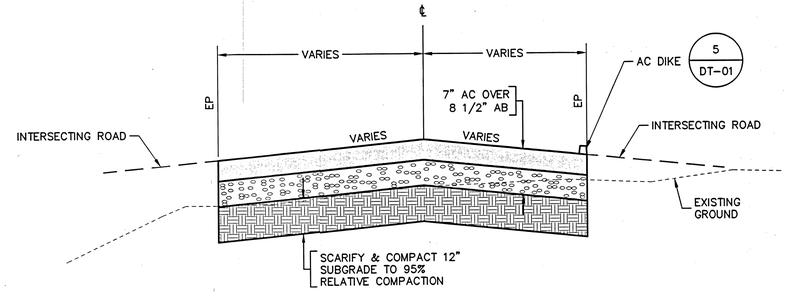


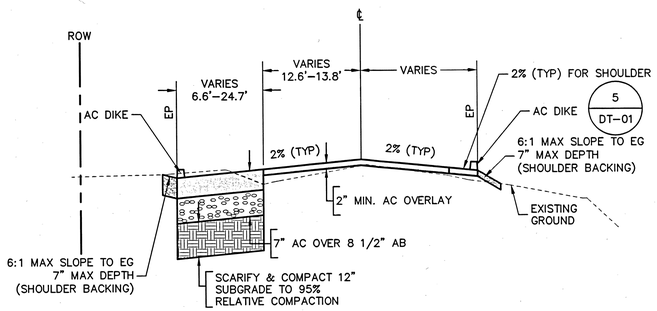
1 / XS-01 HATCH ROAD STATIONS 96+47.84 TO 97+54.03

SCALE: 1" = 10' (H)
1" = 2' (V)



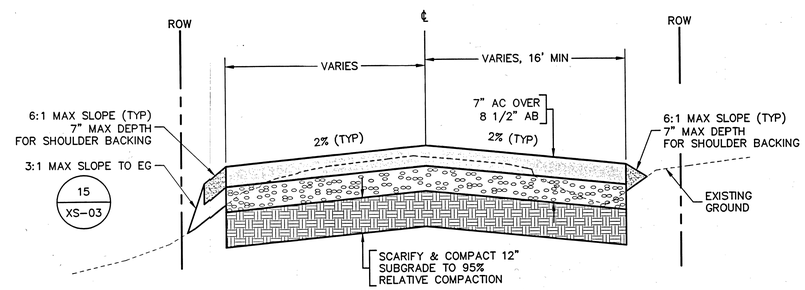
2 / XS-01 SANTA FE AVENUE STATIONS 69+79.72 TO 70+65.78 HATCH ROAD STATIONS 99+18.60 TO 100+49.62

SCALE: 1" = 10' (H)
1" = 2' (V)



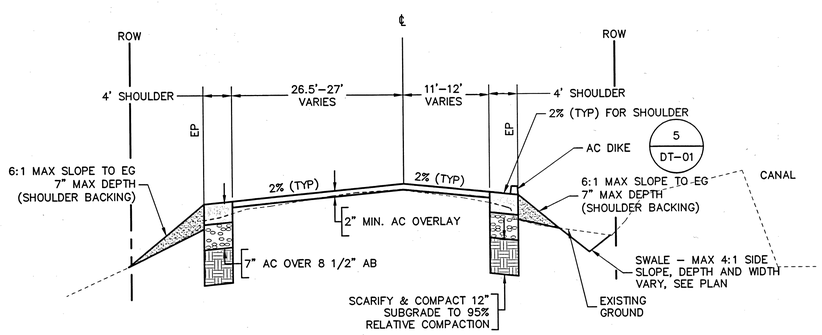
3 / XS-01 SANTA FE AVENUE STATIONS 60+70.00 TO 64+69.69

SCALE: 1" = 10' (H)
1" = 2' (V)



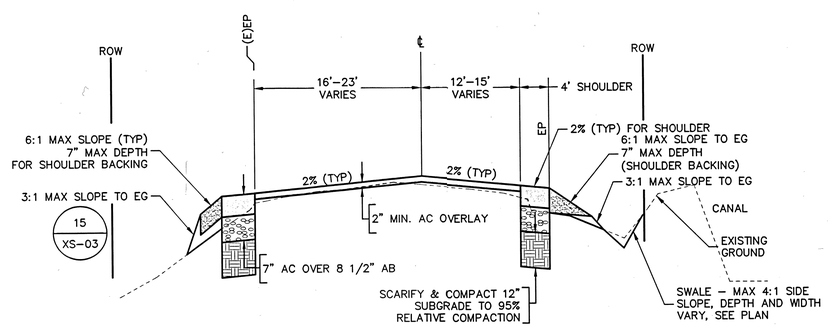
4 / XS-01 HATCH ROAD STATIONS 101+09.61 TO 102+66.52

SCALE: 1" = 10' (H)
1" = 2' (V)



5 / XS-01 HATCH ROAD STATIONS 93+96.48 TO 94+70.79

SCALE: 1" = 10' (H)
1" = 2' (V)



6 / XS-01 HATCH ROAD STATIONS 94+70.79 TO 95+10.08

SCALE: 1" = 10' (H)
1" = 2' (V)

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HATCH RD AND SANTA FE AVE – PHASE 3 TYPICAL CROSS SECTIONS

STANISLAUS COUNTY CALIFORNIA

No.	Revisions

Date: 11/9/2012
Scale: AS SHOWN
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Drawn: AM
Approved: JL
Job No: 20045040.10

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REGISTERED PROFESSIONAL ENGINEER ALEX HEDER C 065102 EXP. 12/31/12 CIVIL STATE OF CALIFORNIA 11/9/12

DRAWING NAME: S:\Civil\HATCH\DWG\PLANSET\PLAN\XS\XS01-3.dwg
PLOT DATE: 11/9/2012
PLOT TIME: 8:41

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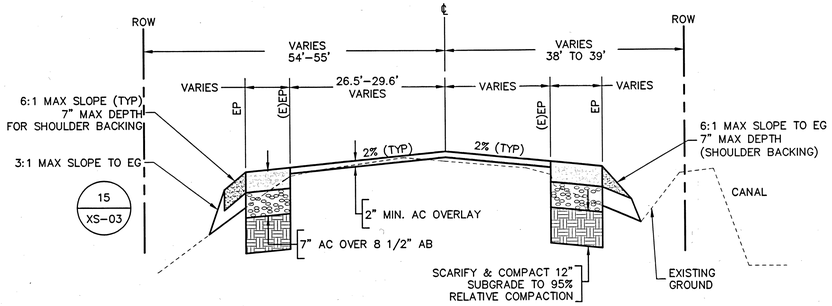
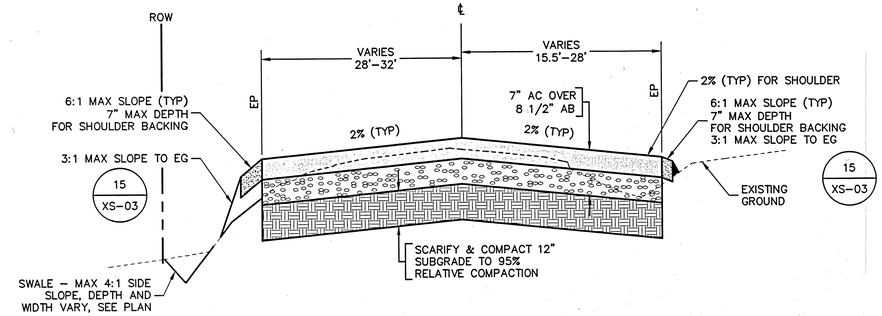


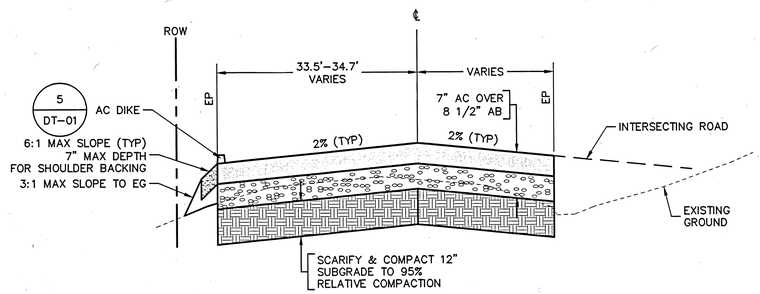
7 / XS–02 HATCH ROAD STATIONS 95+10.08 TO 96+47.84

SCALE: 1" = 10' (H)
1" = 2' (V)



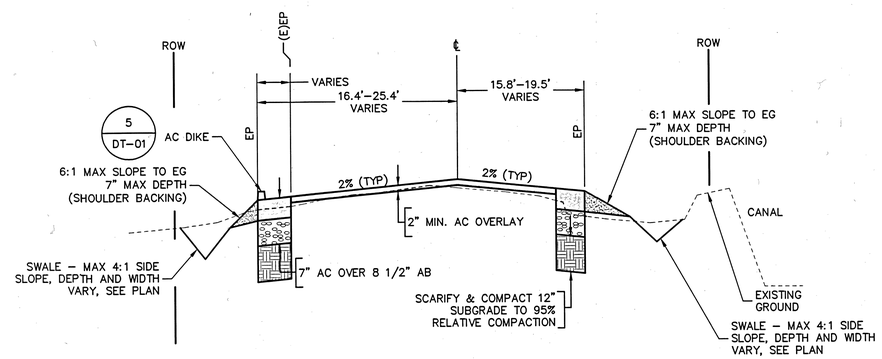
8 / XS–02 SANTA FE AVENUE STATIONS 64+69.69 TO 68+19.00

SCALE: 1" = 10' (H)
1" = 2' (V)



9 / XS–02 HATCH ROAD STATIONS 100+49.62 TO 101+09.61

SCALE: 1" = 10' (H)
1" = 2' (V)



10 / XS–02 HATCH ROAD STATIONS 102+66.52 TO 107+41.18

SCALE: 1" = 10' (H)
1" = 2' (V)

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C 65102
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HATCH RD AND SANTA FE AVE – PHASE 3 TYPICAL CROSS SECTIONS

STANISLAUS COUNTY CALIFORNIA

Revisions	No.

Date: 11/9/2012
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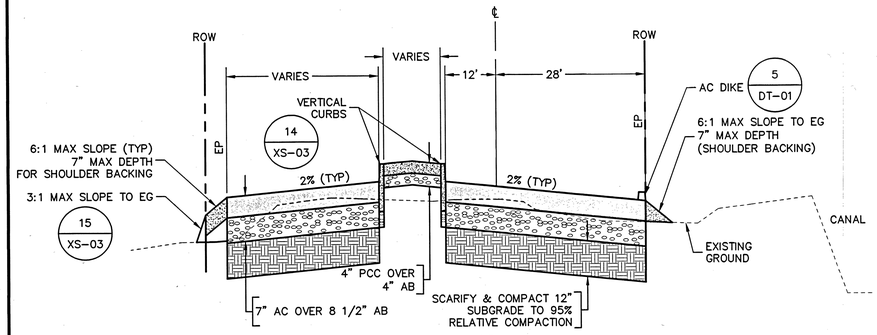
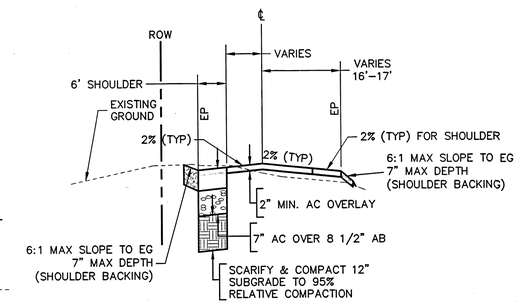


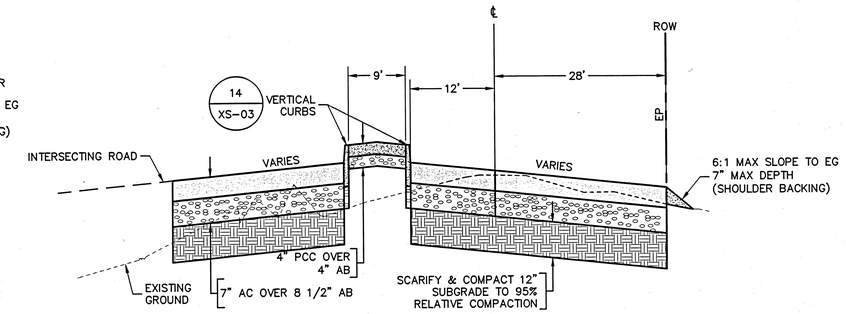
11 XS-03 HATCH ROAD STATIONS 97+54.03 TO 98+60.06

SCALE: 1" = 10' (H)
1" = 2' (V)



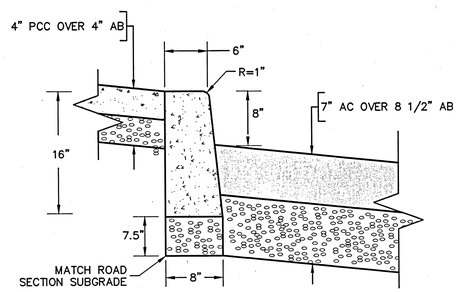
12 XS-03 SANTA FE AVENUE STATIONS 59+51.43 TO 60+70.00 STATIONS 79+87.22 TO 81+42.87

SCALE: 1" = 10' (H)
1" = 2' (V)



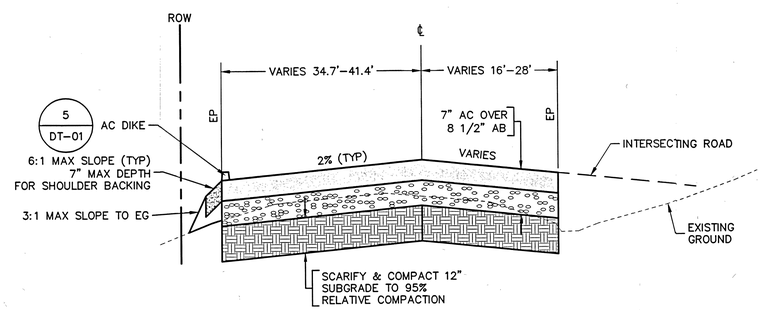
13 XS-03 HATCH ROAD STATIONS 98+60.06 TO 99+18.60

SCALE: 1" = 10' (H)
1" = 2' (V)



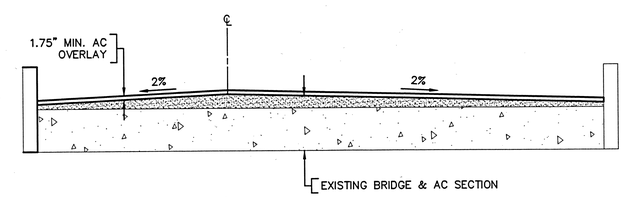
14 XS-03 VERTICAL CURB DETAIL

NTS



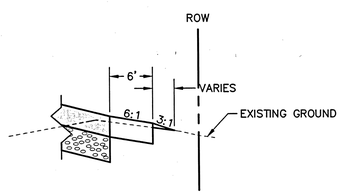
16 XS-03 SANTA FE AVENUE STATIONS 68+19.00 TO 69+79.72

SCALE: 1" = 10' (H)
1" = 2' (V)



18 XS-03 SANTA FE AVENUE STATIONS 70+65.68 TO 71+12.90

NOT TO SCALE



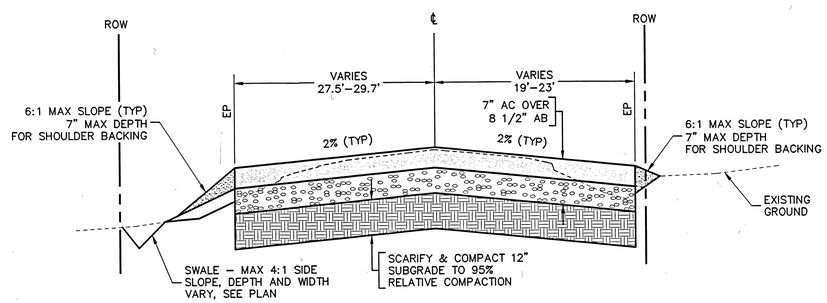
NOTE:
1) APPLY THIS GRADING DETAIL FOR THE FOLLOWING STATION RANGES:
HATCH ROAD:
94+35.36 TO 98+18.80 (LEFT)
100+49.62 TO 102+20.10 (LEFT)

SANTA FE ROAD @ HATCH ROAD:
65+51.00 TO 68+19.00 (RIGHT)
66+22.45 TO 69+79.72 (LEFT)

2) AT ALL OTHER LOCATIONS, DAYLIGHT AT 6:1 SLOPE.

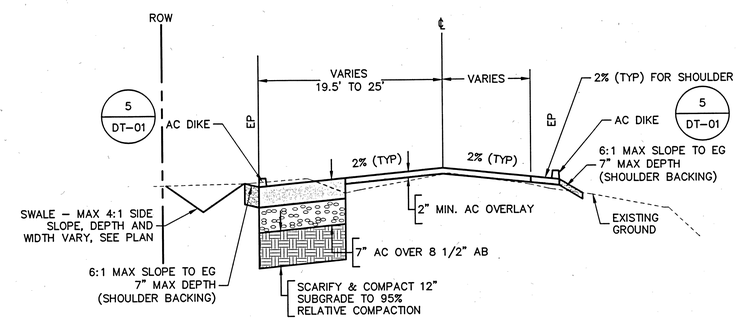
15 XS-03 DAYLIGHT SLOPE DETAIL

NTS



17 XS-03 SANTA FE AVENUE STATIONS 71+52.90 TO 74+54.40

SCALE: 1" = 10' (H)
1" = 2' (V)



19 XS-03 SANTA FE AVENUE STATIONS 74+54.40 TO 79+87.22

SCALE: 1" = 10' (H)
1" = 2' (V)

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HATCH RD AND SANTA FE AVE – PHASE3

TYPICAL CROSS SECTIONS

STANISLAUS COUNTY CALIFORNIA

No.	Revisions

Date: 11/9/2012
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Approved: JL
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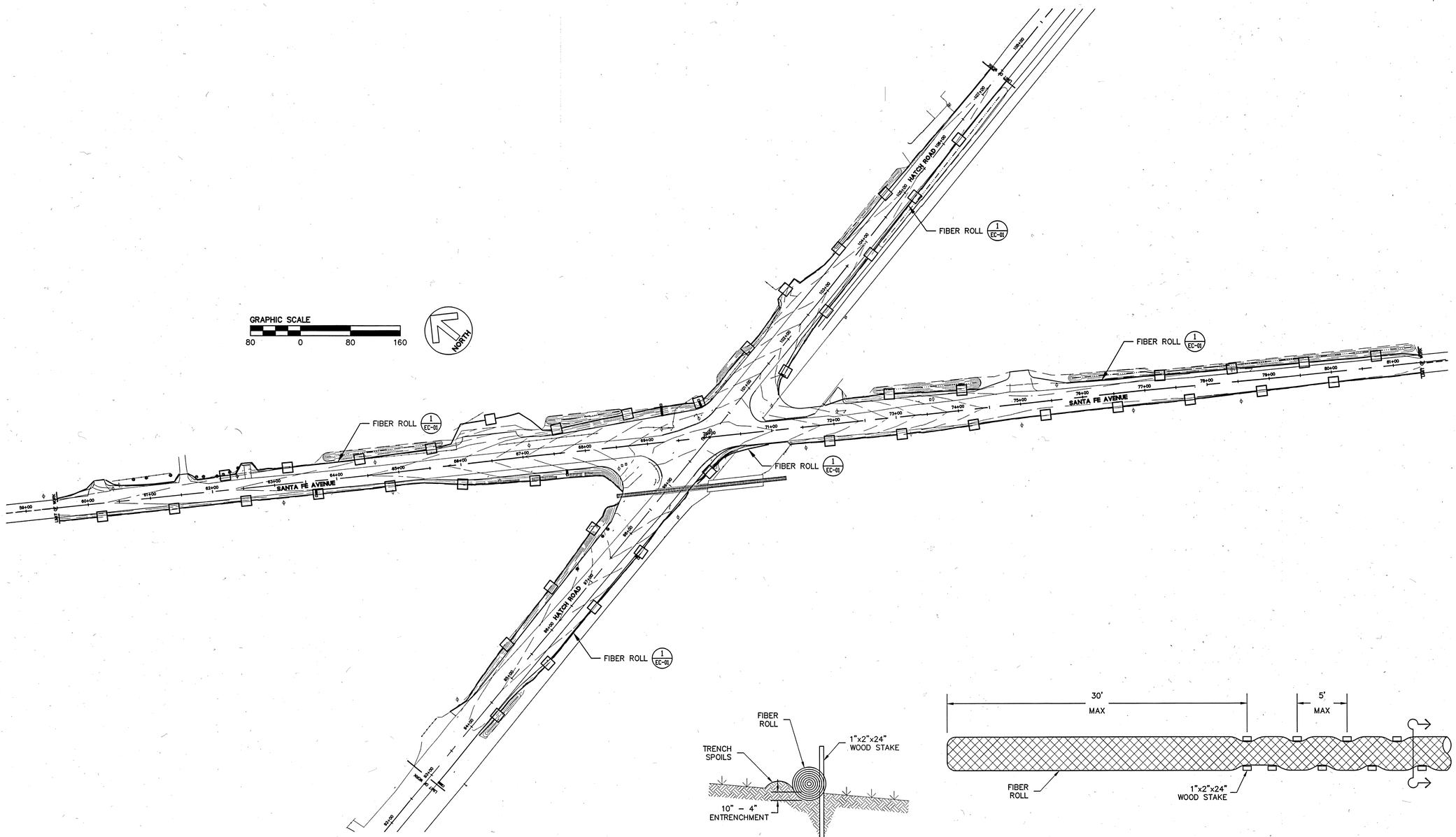

SECTION VIEW

PLAN VIEW

1 / EC-01 FIBER ROLLS

NOT TO SCALE

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11/8/12

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HATCH RD AND SANTA FE AVE – PHASE 3 EROSION CONTROL PLAN

STANISLAUS COUNTY CALIFORNIA

Revisions	No.

Date: 11/9/2012
Scale: AS SHOWN
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Drawn: GR
Approved: JL
Job No: 20045040.20

Drawing Number:

EC-01

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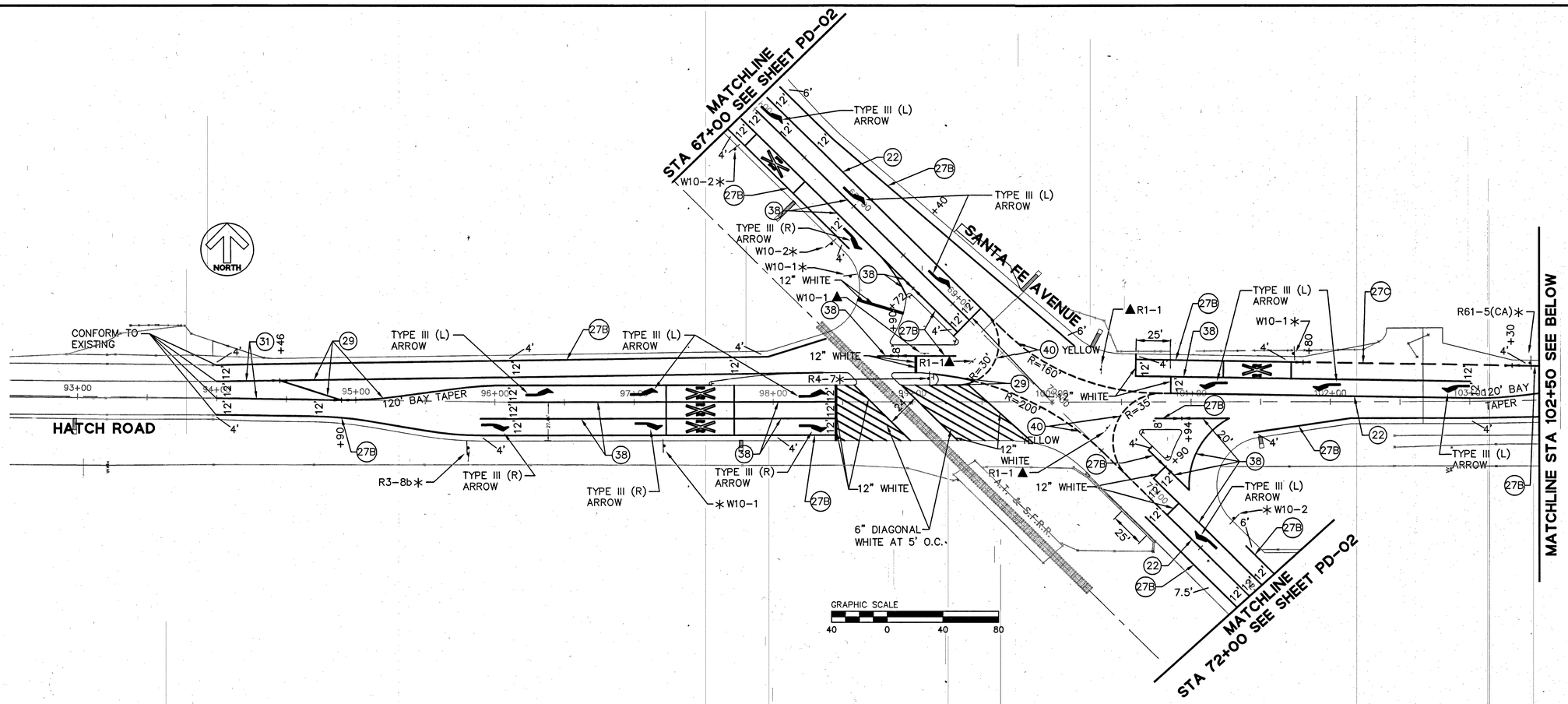

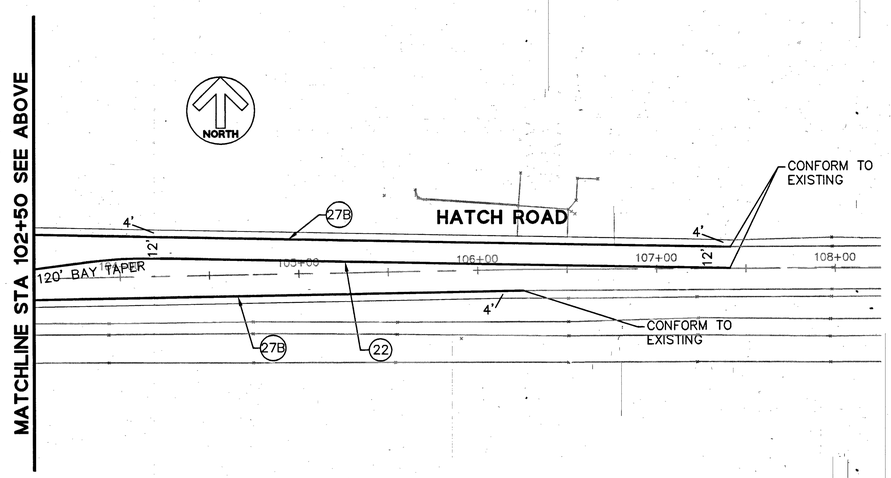

LEGEND:

- PROPOSED PAVEMENT MARKING
- R/R MARKING
- (No.) PROPOSED PAVEMENT DELINEATION DETAIL (SEE CALTRANS STANDARD PLANS, MAY 2006, A-20A TO A-24E FOR DETAILS)
- EXISTING STREET SIGNS
- PROPOSED STREET SIGNS
- REMOVE EXISTING STREET SIGNS
- INSTALL PROPOSED NEW STREET SIGNS
- INSTALL TYPE K MARKERS

NOTE:

1. CONTRACTOR SHALL USE THERMOPLASTIC FOR ALL PAVEMENT MARKINGS AND STRIPE.
2. CONTRACTOR SHALL REMOVE EXISTING STRIPING THAT IS IN CONFLICT WITH PROPOSED STRIPING.

CALL BEFORE YOU DIG 1-800-227-2600 UNDERGROUND SERVICE ALERT

REGISTERED PROFESSIONAL ENGINEER JUFEI WANG C 057006 EXP. 06/30/13 CIVIL STATE OF CALIFORNIA

2737 N. MAIN STREET, STE 200
WALNUT CREEK, CA 94597
PH: (925) 940-2200
FAX: (925) 940-2299
BKF ENGINEERS | SURVEYORS | PLANNERS

HATCH RD AND SANTA FE AVE – PHASE 3 SIGNING AND STRIPING PLAN – HATCH ROAD

STANISLAUS COUNTY CALIFORNIA

No.	Revisions

Date: 11/09/2012
Scale: 1"=40'
Design: JW
Drawn: AM
Approved: JL
Job No: 20045040-10

Drawing Number: PD-01

23 OF 26

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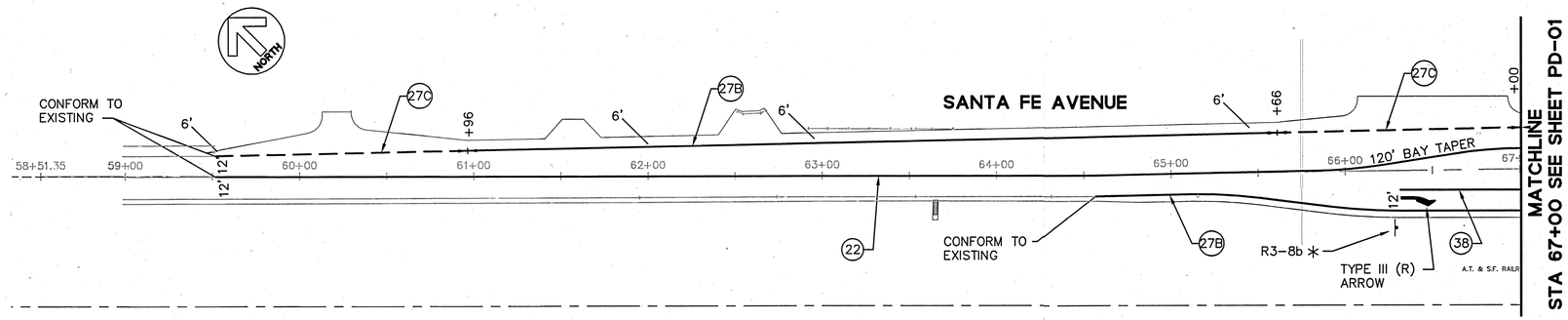

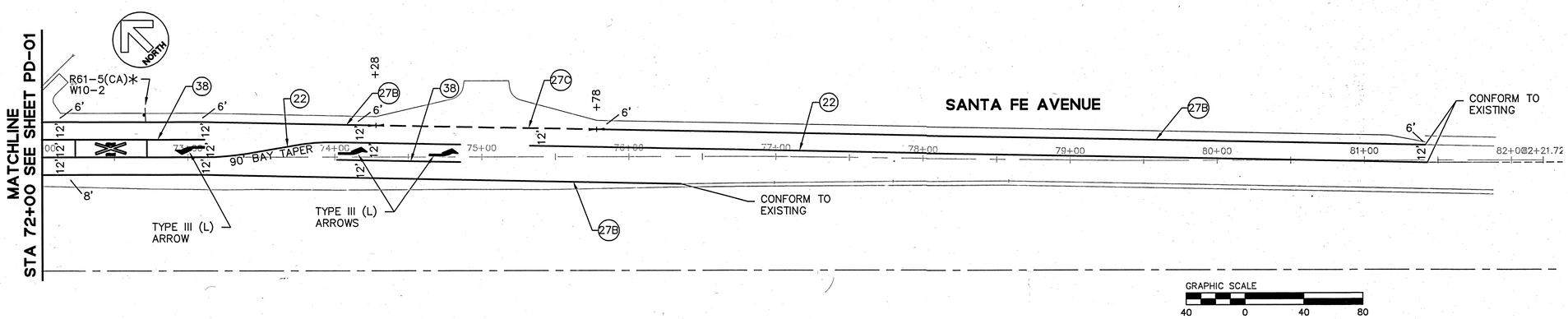

APPROVED BY THE COUNTY OF STANISLAUS
DIRECTOR OF PUBLIC WORKS

BY:_____ DATE:_____

1-800-227-2600 CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
JIPEI WANG
C 057006
EXP. 06/30/13
CIVIL
STATE OF CALIFORNIA

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HATCH RD AND SANTA FE AVE – PHASE 3
SIGNING AND STRIPING PLAN – HATCH ROAD

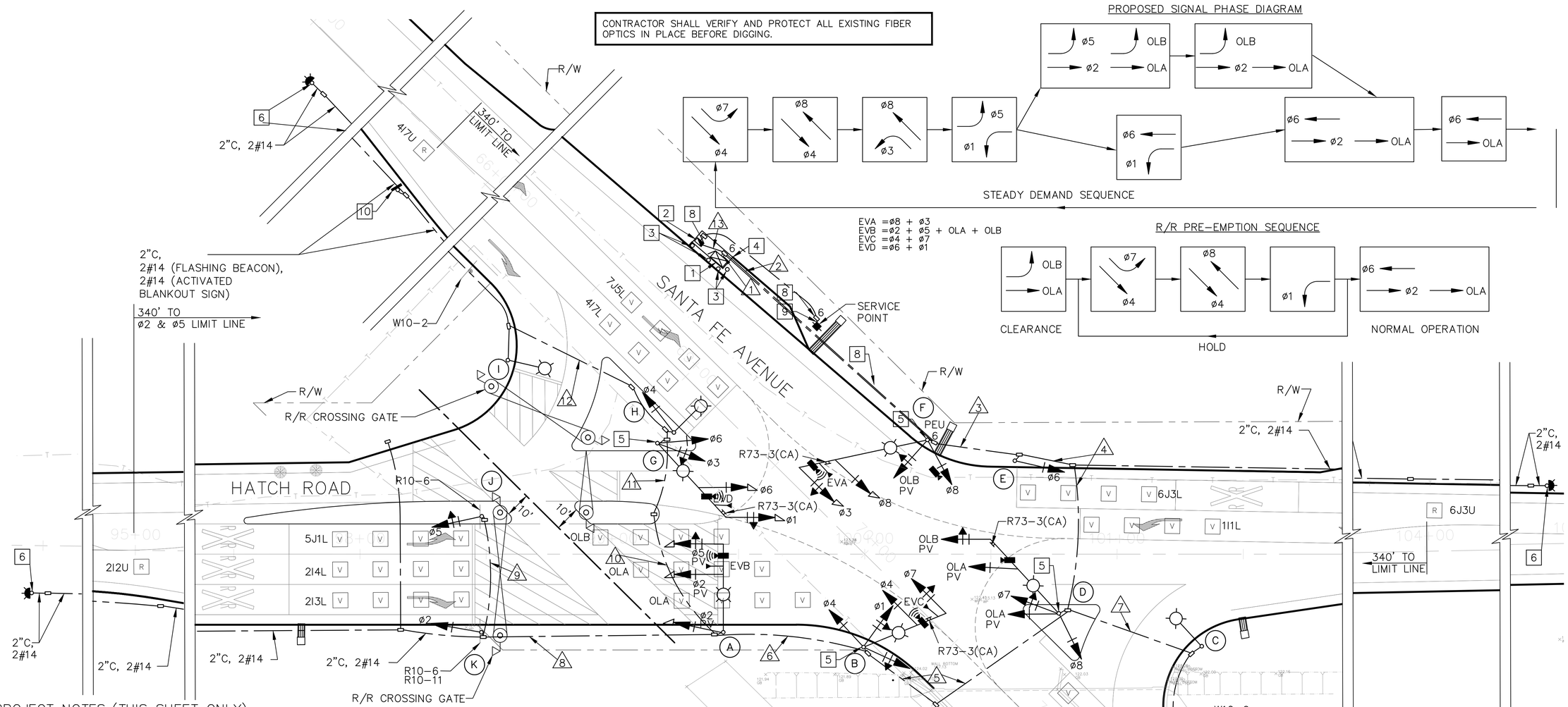
STANISLAUS COUNTY CALIFORNIA

No.	Revisions

Date: 11/09/2012
Scale: 1"=40'
Design: JW
Drawn: AM
Approved: JL
Job No: 20045040-10

Drawing Number:
PD-02
24 OF 26

CONTRACTOR SHALL VERIFY AND PROTECT ALL EXISTING FIBER OPTICS IN PLACE BEFORE DIGGING.



PROJECT NOTES: (THIS SHEET ONLY)

1. INSTALL NEW TYPE 2070E CONTROLLER IN TYPE 332 CONTROLLER CABINET WITH GROUNDING ROD. FRONT DOOR SHALL FACE NORTH.
2. INSTALL NEW SERVICE ENCLOSURE, TESCO MODEL 27-22 METERED PANEL WITH BBS OR APPROVED EQUAL. FRONT DOOR SHALL FACE EAST. PROVIDE ITEMS 1-8, 10, 13, 15-17, 20, 22.
3. INSTALL FOUR 6" DIA. METAL GUARD POSTS. 4' HIGH AROUND THE PEDESTAL BASE OF THE TRAFFIC SIGNAL CONTROLLER.
4. INSTALL 16' X 6' X 4" CONCRETE PAD FOR CONTROLLER ASSEMBLY AND SERVICE EQUIPMENT ENCLOSURE.
5. FOUNDATION POLE AND MASTARM INSTALLATION ARE NOT PERPENDICULAR TO THE ROADWAY. CONTRACTOR SHALL INSTALL AT AN ANGLE AS SHOWN ON PLAN.
6. FURNISH AND INSTALL ADVANCED TYPE 1-B FLASHING BEACON PER 2010 CALTRANS STANDARD ES-7J AT 500'± FROM LIMIT LINE.
7. CONTRACTOR SHALL STRAP THE CONDUIT ON TYPE 732A MODIFIED CONCRETE BARRIER. SEE DETAIL A ON SHEET TS-02.
8. INSTALL 2"C (SCHEDULE 40) WITH 1/0 TRIPLEX AL XLP CONDUCTORS (SIGNAL SERVICE). ALL CONDUCTORS AND CONDUITS SHALL CONFORM TO TURLOCK IRRIGATION DISTRICT (TID) SPECIFICATION.
9. INSTALL 2" RISER (SCHEDULE 80) WITH 1/0 TRIPLEX AL XLP CONDUCTORS (SIGNAL SERVICE) ON POLE. ALL CONDUCTORS AND CONDUITS SHALL CONFORM TO TURLOCK IRRIGATION DISTRICT (TID) SPECIFICATION.
10. FURNISH AND INSTALL LED "ACTIVATED BLANK OUT" MESSAGE SIGN R3-1.

APPLICABLE CALTRANS STANDARD PLANS

REFER TO CALTRANS STANDARD PLANS, DATED MAY 2006 FOR ALL CALTRANS STANDARD PLAN DESIGNATIONS.

ES-1A	ES-2D	ES-3E	ES-5D	ES-7F	ES-7O	ES-13A
ES-1B	ES-3A	ES-4A	ES-6A	ES-7G	ES-8	ES-13B
ES-1C	ES-3C	ES-4E	ES-7A	ES-7H	ES-10	
ES-2C	ES-3D	ES-5B	ES-7B	ES-7N	ES-11	

INSTALL NEW VIDEO/RADAR HYBRID DETECTOR.
INSTALL NEW VIDEO CAMERA VEHICLE DETECTOR.
V VIDEO DETECTION ZONE
R RADAR DETECTION ZONE

NORTH
GRAPHIC SCALE 20 0 20 40

1-800-227-2600 CALL BEFORE YOU DIG USA UNDERGROUND SERVICE ALERT

811 CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER ANDREW J. MALTZIA No. C76852 CIVIL STATE OF CALIFORNIA

NO	DESCRIPTIONS	DATE	APPROVED
	REVISIONS		

STANISLAUS COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING AND OPERATIONS DIVISION
1716 MORGAN ROAD - MODESTO, CA 95358

Stanislaus County Striving to be the best

TRAFFIC SIGNAL PLAN

IMPROVEMENT PLANS FOR:
HATCH RD AND SANTA FE AVE
PHASE 3
STANISLAUS COUNTY, CALIFORNIA

JOB NO	9208
DATE	9/9/2015
DR BY	AJM
CK BY	
SURVEY	
CONST.	
SCALE	SEE SHEET

SHEET NUMBER
TS-1
25 OF 26 SHEETS

Sep 10, 2015 - 8:15am
LV:ROADS\9208 - Hatch at Santa Fe-Phase 3\Design\DWG\2012_11-15_PLAN SET-SIGNED_CAD-PDF\CAD FILES_3RD SET\Sheets\SHTS01-2015.dwg

Addendum No. 3

CONDUCTOR SCHEDULE

AWG SIZE OR CABLE SIZE	PHASE	POLE	CONDUIT SIZE AND RUN NUMBER												
			1	2	3	4	5	6	7	8	9	10	11	12	13
VEH-PED 12CSC	Ø2/5	POLE A	1	1	1	1	1	1							
	Ø4/7	POLE B	1	1	1	1	1								
	OLA/B	POLE D	1	1	1	1									
	Ø6	POLE E	1	1	1										
	Ø8	POLE F	1	1											
	Ø6	POLE G	1	1	1	1	1	1				1	1		
	Ø4	POLE H	1	1	1	1	1	1				1	1		
	Ø5	POLE J	1	1	1	1	1	1		1	1				
	Ø2	POLE K	1	1	1	1	1	1		1					
		TOTAL CABLES	9	9	8	7	6	5		2	1	2	2		
#8		LIGHTING	2	2	2	2	2	2	2	2			2	2	2
#6		SIGNAL SVC													1
#14		ACT. SIGN	2	2	2	2	2	2				2	2	2	
#14		FBS	2	2	2	2	2	2	2	2			2	2	2
#14		PEU	3	3											3
#20		RR INTER.	12	12	12	12	12								
EV. CABLE			4	4	3	3	3	2				1	1		
SIAMESE VIDEO CABLE			5	5	4	4	3	2				1	1		
MINIMUM CONDUIT SIZE			2-4"	2-4"	2-4"	2-4"	2-4"	2-4"	2"	3"	3"	3"	3"	2"	3"
APPROX. % FILL PER CONDUIT			26%	26%	23%	21%	18%	14%	3%	15%	7%	20%	21%	4%	4%

– ALL VEHICLE INDICATIONS SHALL BE LED MODULES.

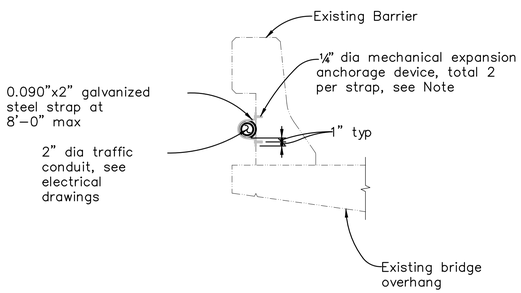
POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD TYPE	STANDARD SIG M.A.	STANDARD 'F' DIST	LUM M.A.	VEH SIG MTG MAST ARM	VEH SIG MTG POLE	HPS LUMINAIRE EQUIV.	SPECIAL REQUIREMENTS
A*	24-4-100	35'	12'	15'	MAS MAS	SV-1-T	200 W	
B	24-4-100	35'	12'	15'	MAS MAS	SV-3-TA	200 W	FURNISH AND INSTALL R73-3(CA) SIGN ON SMA. FURNISH AND INSTALL D3 "HATCH RD" SIGN ON SMA.
C	15			15'			200 W	
D**	24-4-100	40'	15'	15'	MAS MAS	SV-3-TA	200 W	FURNISH AND INSTALL R73-3(CA) SIGN ON SMA. FURNISH AND INSTALL D3 "SANTA FE AVE" SIGN ON SMA.
E	1-A			15'		TV-1-T		
F	29-5-100	50'	15'	15'	MAS MAS	SV-2-TA	200 W	FURNISH AND INSTALL R73-3(CA) SIGN ON SMA. FURNISH AND INSTALL PEU ON TOP OF POLE. FURNISH AND INSTALL D3 "HATCH RD" SIGN ON SMA.
G	24-4-100	40'	15'	15'	MAS MAS	SV-2-TA	200 W	FURNISH AND INSTALL R73-3(CA) SIGN ON SMA. FURNISH AND INSTALL D3 "SANTA FE AVE" SIGN ON SMA.
H	15TS			15'		SV-1-T	200 W	
I	15			15'			200 W	
J	1-A					TV-1-T		FURNISH AND INSTALL R10-6 SIGN ON POLE.
K	1-A					TV-1-T		FURNISH AND INSTALL R10-6 & R10-11 SIGNS ON POLE.

* PROGRAMMED VISIBILITY OR MECHANICAL LOUVERED SIGNAL INDICATIONS WILL BE INSTALLED TO BLOCK THE VISIBILITY OF THE TRAFFIC SIGNAL INDICATION TO MOTORISTS AT A PARTICULAR LOCATION. AT LOCATION A, MOTORISTS BEYOND THE LIMIT LINE WILL NOT SEE THE RED TRAFFIC SIGNAL INDICATION AT LOCATION A.

** PROGRAMMED VISIBILITY OR MECHANICAL LOUVERED SIGNAL INDICATIONS WILL BE INSTALLED TO BLOCK THE VISIBILITY OF THE TRAFFIC SIGNAL INDICATION TO MOTORISTS AT A PARTICULAR LOCATION. AT LOCATION D, MOTORISTS APPROACHING THE LIMIT LINE WILL NOT SEE THE GREEN TRAFFIC SIGNAL INDICATION AT LOCATION D.

– OVERHEAD D3 STREET NAME SIGNS SHALL USE ASTM TYPE XI SHEETING.



Note:
Mechanical expansion anchorage devices shall be Caltrans approved, see www.dot.ca.gov/hq/esc/approved_products_list for list of Caltrans approved mechanical expansion anchors

DETAIL A: UTILITY ATTACHMENT DETAIL
3/4" = 1'-0"

CALL BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER ANDREW J. MALIZIA No. C76852 CIVIL STATE OF CALIFORNIA

NO	DESCRIPTIONS	DATE	APPROVED
REVISIONS			

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TRAFFIC SIGNAL PLAN

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26 OF 26 SHEETS

Addendum No.3

Sep 10, 2015 - 8:13am
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