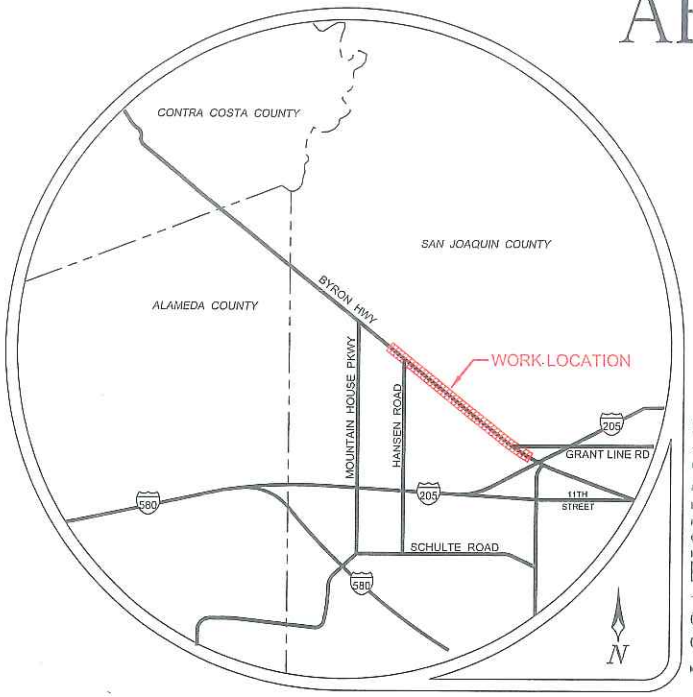
TRAFFIC CONTROL PLANS

BACKBONE ROUTE
PLEASANTON 2.3-I
BYRON ROAD
SAN JOAQUIN COUNTY, CALIFORNIA
AERIAL FIBER ROUTE

SAN JOAQUIN COUNTY



LOCATION MAP

CONTRACTOR

GROUP

CONTACT MONICA PINO

PHONE# (916) 804-0573

CONSULTANT

ALMENDARIZ CONSULTING INC

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EL DORADO HILLS, CA 95762
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CA C31 LIC #979806

REVISIONS			
REV.	DESCRIPTION	REVISED BY	DATE

PROJECT NO. 150214
DRAWN SM
DESIGNED JL
CHECKED CAA

DATE
APRIL 17, 2015

SHEET NO. 1 OF 6

GENERAL NOTES

1. NOTHING ALLOWED IN THE BUFFER AND TRANSITION AREAS AT ALL TIMES.
2. SIGNS ARE ONLY SHOWING TO THE PUBLIC WHEN IN USE.
3. SIGNS AND CHANNELIZING DEVICES MUST BE RETROREFLECTIVE OR ILLUMINATED DURING NIGHT OPERATIONS.
4. SIGN PANEL SIZES: 36"X36" MIN. ON ROADS <50mph, 48"x48" ON ROADS ≥ 50mph.
5. SIGNS ARE SPACED PER THE CA 2014 MUTCD.
6. CHANNELIZING DEVICES SPACING AND TAPER LENGTHS ARE BASED ON THEIR RESPECTIVE CHARTS. (SEE CHARTS THIS PAGE)
7. NOTIFY THE LOCAL LAW ENFORCEMENT, FIRE, AND AMBULANCE COMPANIES WITHIN 72 HOURS BEFORE CONSTRUCTION BEGINS.
8. CONTRACTOR TO MAKE SURE ALL TRAFFIC CONTROL EQUIPMENT MEETS ALL AGENCY REQUIREMENTS.
9. REMOVE ALL CONFLICTING MARKINGS FOR LONG TERM OPERATIONS (3 DAYS OR LONGER).
10. THE LOCATION OF THE SIGNS AS SHOWN ON THE ILLUSTRATIONS ARE GUIDELINES AND ACTUAL LOCATIONS WILL DEPEND UPON ALIGNMENT, GRADE, LOCATION OF STREET INTERSECTIONS AND 85% TILE/POSTED SPEED LIMITS/OR PRIMA FACIE.
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12. FULL COMPLIANCE IS REQUIRED WITH THE COUNTY AGENCY.(AFFECTS NOTES #20 THRU 22, BELOW)
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14. C30 SIGNS ARE PERMITTED IN BUFFER AREAS.
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17. QUALITY STANDARD TO MEET REQUIREMENTS OF SECTION 1A-2 OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
18. ALL TRAFFIC CONTROL DEVICES INCLUDING: SIGNS, BARRICADES, VERTICAL PANELS, DRUMS, WARNING LIGHTS, ARROWBOARDS, CHANGEABLE MESSAGE SIGNS, CONES AND TUBULAR MARKERS THAT MEET THE REQUIREMENTS OF AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA). "CA 2014 MUTCD" SHALL BE USED ON THIS PROJECT/THIS WORK.
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TABLES CHART - 2014 MUTCD

Posted Speed	Taper (L) Formula	Buffer Space	Minimum Taper Lengths									Maximum *Cone Spacing			Sign Spacing
			10' Offset			11' Offset			12' Offset						
			L Merge	1/2 L Shift	1/3 L Shoulder	L Merge	1/2 L Shift	1/3 L Shoulder	L Merge	1/2 L Shift	1/3 L Shoulder	@ Taper	@ Tangent	@ Conflict	
25	$L = \frac{WS^2}{60}$	155'	104'	52'	35'	115'	57'	38'	125'	63'	42'	25'	50'	12'	100' - 200'
30		200'	150'	75'	50'	165'	83'	55'	180'	90'	60'	30'	60'	15'	120' - 240'
35		250'	204'	102'	68'	225'	112'	75'	245'	123'	82'	35'	70'	17'	140' - 280'
40		305'	267'	133'	89'	293'	147'	98'	320'	160'	107'	40'	80'	20'	160' - 320'
45	L = WS	360'	450'	225'	150'	495'	248'	165'	540'	270'	180'	45'	90'	22'	360' - 540'
50		425'	500'	250'	167'	550'	275'	183'	600'	300'	200'	50'	100'	25'	400' - 600'
55		495'	550'	275'	183'	605'	303'	202'	660'	330'	220'	55'	110'	27'	440' - 660'
60		570'	600'	300'	200'	660'	330'	220'	720'	360'	240'	60'	120'	30'	480' - 720'
65		645'	650'	325'	217'	715'	358'	238'	780'	390'	260'	65'	130'	32'	520' - 780'
70		730'	700'	350'	233'	770'	385'	257'	840'	420'	280'	70'	140'	35'	560' - 840'

Both are based on.
1.) 85th % Tile or if not available, then use Posted Speed Limit (PSL)

L = Taper Length
S = Speed
W = Width (Offset from path of travel

*Cones shown on the templates are illustration purposes only. Exact number of cones required shall be based on cone spacing, taper lengths, actual field conditions, etc..

CA MUTCD 2014 TABLE 6C-1

MEANING OF LETTER CODES ON TYPICAL APPLICATION DIAGRAMS

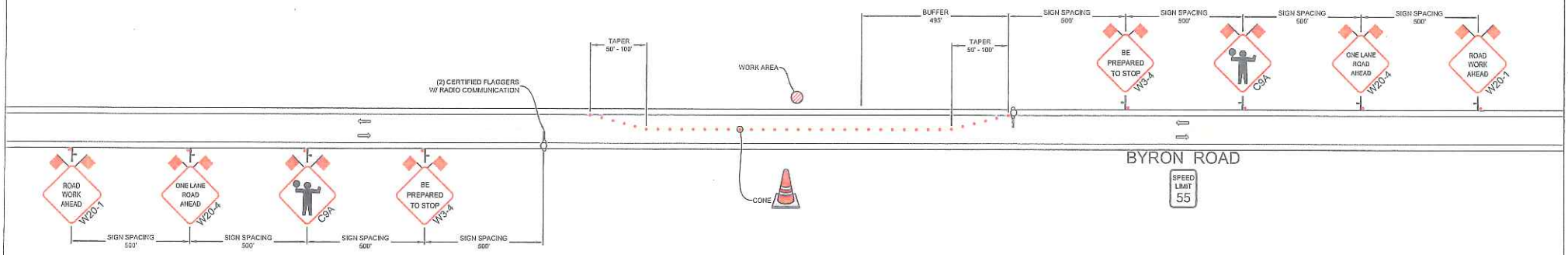
ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
URBAN (LOW SPEED) - 25 MPH OR LESS	100 FEET	100 FEET	100 FEET
URBAN (LOW SPEED) - MORE THAN 25 MPH TO 40 MPH	250 FEET	250 FEET	250 FEET
URBAN (HIGH SPEED) - MORE THAN 40 MPH	350 FEET	350 FEET	350 FEET
RURAL	500 FEET	500 FEET	500 FEET
EXPRESSWAY / FREEWAY	1,000 FEET	1,500 FEET	2,640 FEET

REVISIONS			
REV.	DESCRIPTION	REV BY	DATE

PROJECT NO. 150214
DRAWN SM
DESIGNED JL
CHECKED CAA

DATE
APRIL 17, 2015

TYPICAL FLAGGER OPERATION



SYMBOL LEGEND

- CONSTRUCTION SIGN
- FLAGGER
- 28" CONE
- TYPE I BARRICADE
- TYPE III BARRICADE
- NO PARKING SIGN ON TYPE I BARRICADE
- FAS — FLASHING ARROW BOARD

NOTES

- CONTRACTOR SHALL MAINTAIN/PROVIDE ACCESS TO ALL DRIVEWAYS AFFECTED BY THE WORK AREA.
- MAXIMUM CHANNELIZING DEVICE SPACING FOR ALL SPEEDS ON DOWNSTREAM TAPERS IS 20'.
- W20-1 (ROAD WORK AHEAD) SIGNS SHALL BE PLACED ON ALL SIDE STREETS BETWEEN THE WORK AREA AND THE FIRST SIGN ENCOUNTERED BY TRAFFIC ON THE HWY.

CONST. HOURS: 8:00AM-4:00PM MON-FRI

REVISIONS

REV.	DESCRIPTION	REV CODE BY	DATE

ROADS < 50 MPH: MINIMUM 36" SIGN PANELS (48" SIGNS MAY BE USED)

ROADS ≥ 50 MPH: MINIMUM 48" SIGN PANELS

ALMENDARIZ CONSULTING GROUP ACKNOWLEDGES NO RESPONSIBILITY IN THE CASE OF ANY ACCIDENT, INJURY, OR DEATH OCCURRING DURING THE USE OF THESE PLANS. PLANS ARE NOT TO BE DUPLICATED FOR USE BY ANY PERSONS NOT INCLUDED IN THIS CONTRACT WITHOUT THE CONSENT OF ACI OR OWNER.

ALMENDARIZ CONSULTING GROUP
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EL DORADO HILLS, CA 95762
(888) 306-1211 OFFICE (888) 768-7022 FAX
CA C31 LIC #979806

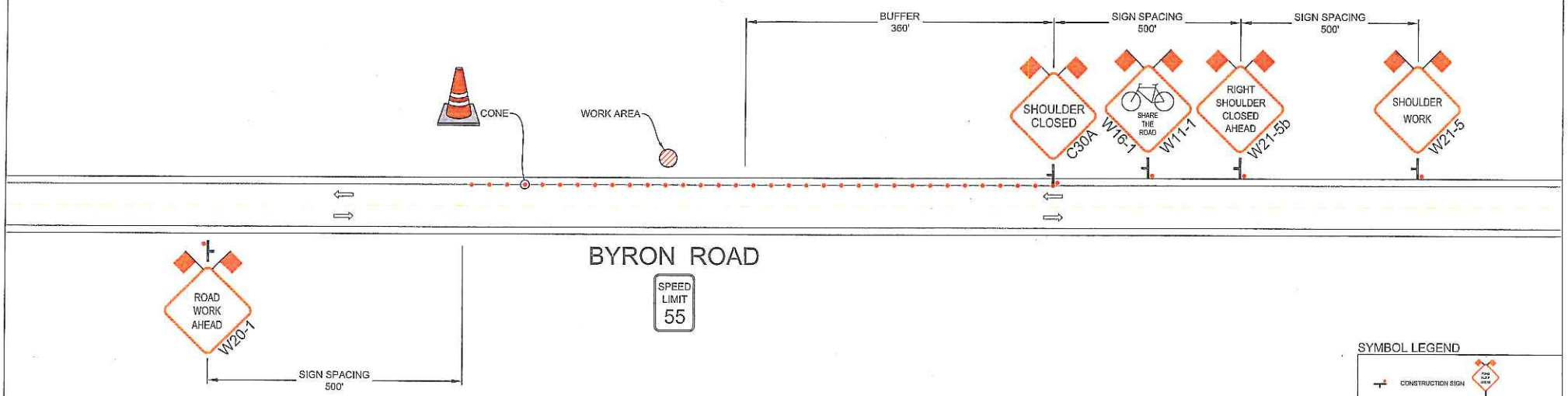
LOCATION BYRON ROAD, SAN JOAQUIN COUNTY, CA

CONTACT MONICA PINO
PHONE# (916) 804-0573

PROJECT NO. 150214
DRAWN SM
DESIGNED JL
CHECKED CAA

DATE APRIL 17, 2015

TYPICAL SHOULDER CLOSURE



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CONTACT MONICA PINO
PHONE# (916) 804-0573

PROJECT NO. 150214
DRAWN SM
DESIGNED JL
CHECKED CAA

DATE
APRIL 17, 2015

SHEET NO. 4 OF 6

NOTES

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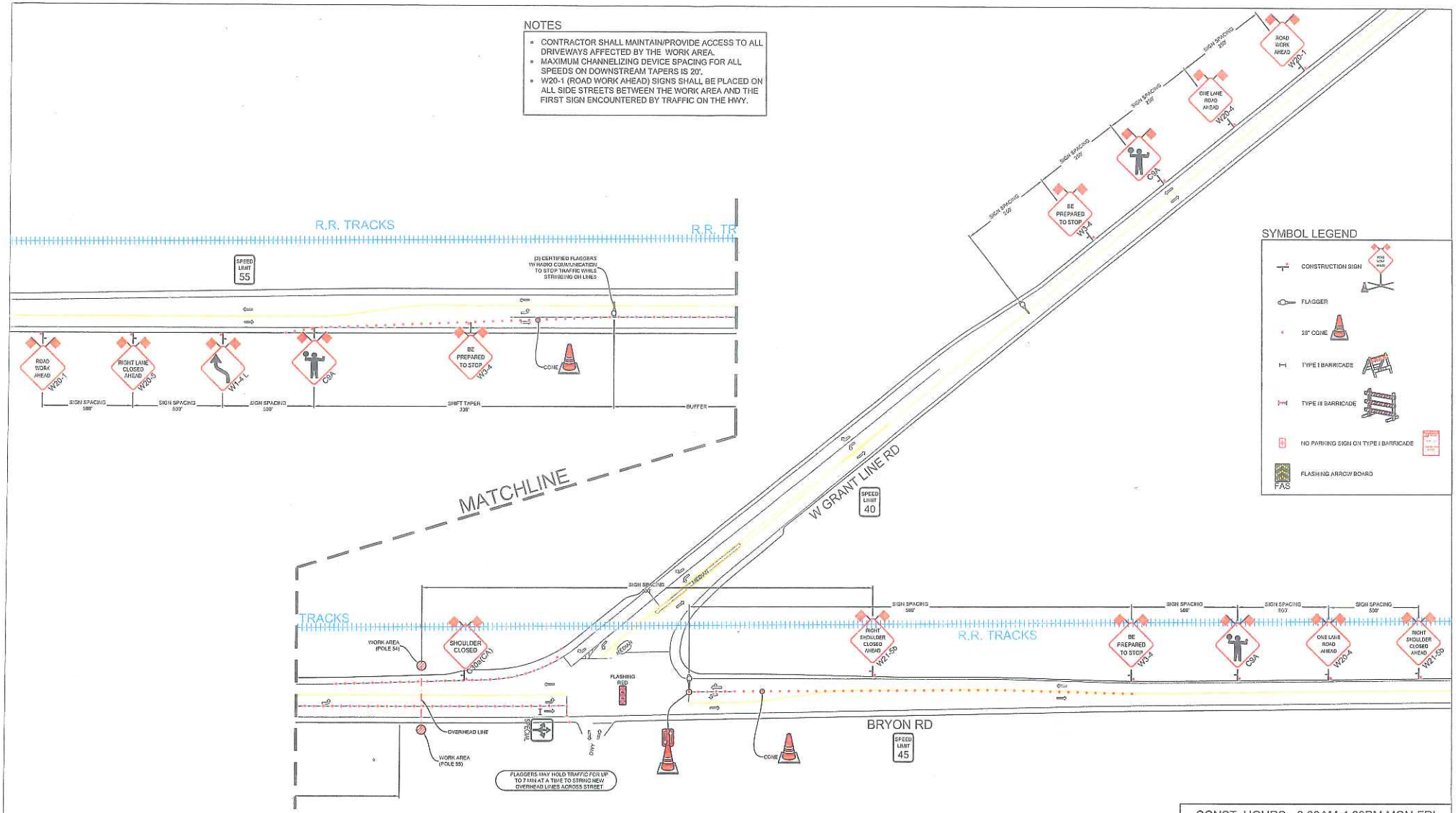

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LOCATION BYRON ROAD, SAN JOAQUIN COUNTY, CA

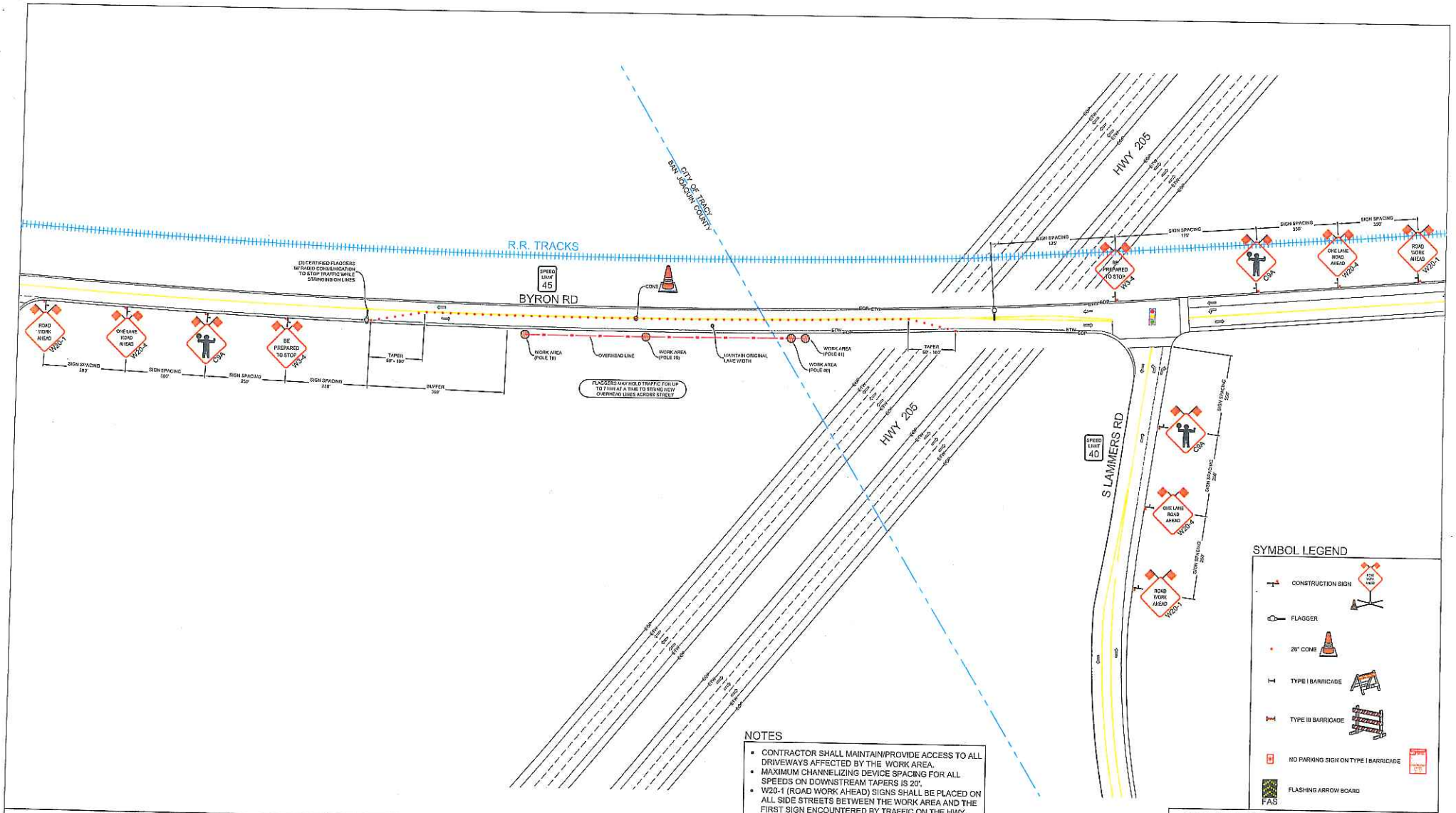
CONTACT MONICA PINO
PHONE# (916) 804-0573

GROUP

PROJECT NO. 150214
DRAWN SM
DESIGNED JL
CHECKED CAA

DATE
APRIL 17, 2015

SHEET NO. 5 OF 6



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CONST. HOURS: 8:00AM-4:00PM MON-FRI

REVISIONS

REV.	DESCRIPTION	REV. CODE BY	DATE

MINIMUM 48" SIGN PANEL

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LOCATION BYRON ROAD, SAN JOAQUIN COUNTY, CA

GROUP

CONTACT MONICA PINO
PHONE# (916) 604-0573

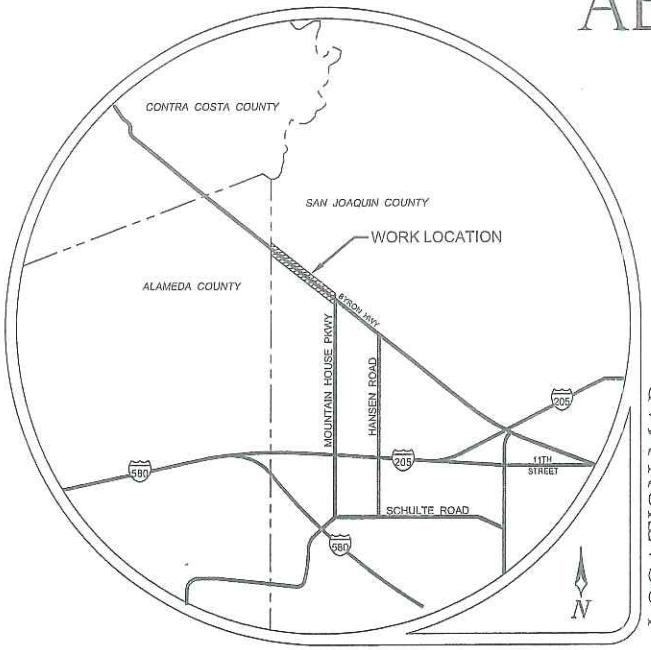
PROJECT NO. 150214
DRAWN SM
DESIGNED JL
CHECKED CAA
DATE

N

TRAFFIC CONTROL PLANS

BACKBONE ROUTE
PLEASANTON 2.3-H
BYRON ROAD
SAN JOAQUIN COUNTY, CALIFORNIA
AERIAL FIBER ROUTE

SAN JOAQUIN COUNTY



LOCATION MAP

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CONSULTANT

ALMENDARIZ

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REVISIONS			
REV.	DESCRIPTION	REVISED BY	DATE
REV. 1	ADDED SHEETS 5&6 PER CITY COMMENTS	BME	6/5/15

PROJECT NO. 150214
DRAWN SM
DESIGNED JE
CHECKED CAA

DATE
APRIL 17, 2015

SHEET NO. 1 OF 6

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TABLES CHART - 2014 MUTCD

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CA MUTCD 2014 TABLE 6C-1

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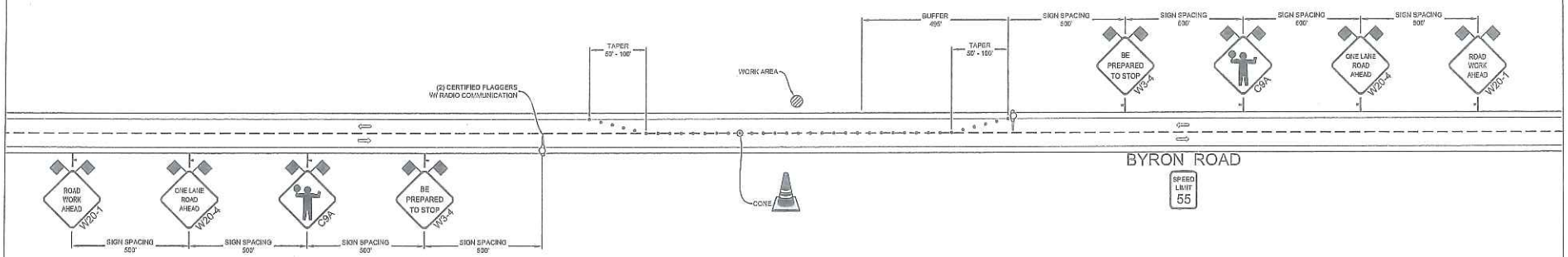
URBAN (LOW SPEED) - 25 MPH OR LESS	100 FEET	100 FEET	100 FEET
URBAN (LOW SPEED) - MORE THAN 25 MPH TO 40 MPH	250 FEET	250 FEET	250 FEET
URBAN (HIGH SPEED) - MORE THAN 40 MPH	350 FEET	350 FEET	350 FEET
RURAL	500 FEET	500 FEET	500 FEET
EXPRESSWAY / FREEWAY	1,000 FEET	1,500 FEET	2,640 FEET

REVISIONS			
REV.	DESCRIPTION	REVISED BY	DATE
REV. 1	ADDED SHEETS 5&6 PER CITY COMMENTS	BMG	8/8/16

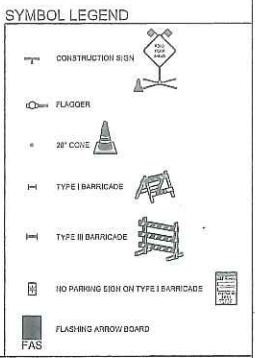
PROJECT NO. 150214
DRAWN SM
DESIGNED JL
CHECKED CAA

DATE
APRIL 17, 2015

TYPICAL FLAGGER OPERATION



SYMBOL LEGEND



NOTES

- CONTRACTOR SHALL MAINTAIN/PROVIDE ACCESS TO ALL DRIVEWAYS AFFECTED BY THE WORK AREA.
- MAXIMUM CHANNELIZING DEVICE SPACING FOR ALL SPEEDS ON DOWNSTREAM TAPERS IS 20'.
- W20-1 (ROAD WORK AHEAD) SIGNS SHALL BE PLACED ON ALL SIDE STREETS BETWEEN THE WORK AREA AND THE FIRST SIGN ENCOUNTERED BY TRAFFIC ON THE HWY.

CONST. HOURS: 8:00AM-4:00PM MON-FRI

REVISIONS

REV.	DESCRIPTION	REVISED BY	DATE
REV. 1	ADDED SHEETS 5&6 PER CITY COMMENTS	BME	6/5/15

ROADS < 50 MPH: MINIMUM 36" SIGN PANELS (48" SIGNS MAY BE USED)

ROADS ≥ 50 MPH: MINIMUM 48" SIGN PANELS

ALMENDARIZ CONSULTING ACKNOWLEDGES NO RESPONSIBILITY IN THE CASE OF ANY ACCIDENT, INJURY, OR DEATH OCCURRING DURING THE USE OF THESE PLANS. PLANS ARE NOT TO BE DUPLICATED FOR USE BY ANY PERSONS NOT INCLUDED IN THIS CONTRACT WITHOUT THE CONSENT OF ACI OR OWNER.

ALMENDARIZ GROUP
1136 SUNCAST LN STE 9
EL DORADO HILLS, CA 95762
(888) 366-1211 OFFICE (888) 768-7022 FAX
CA C31 LIC #979886

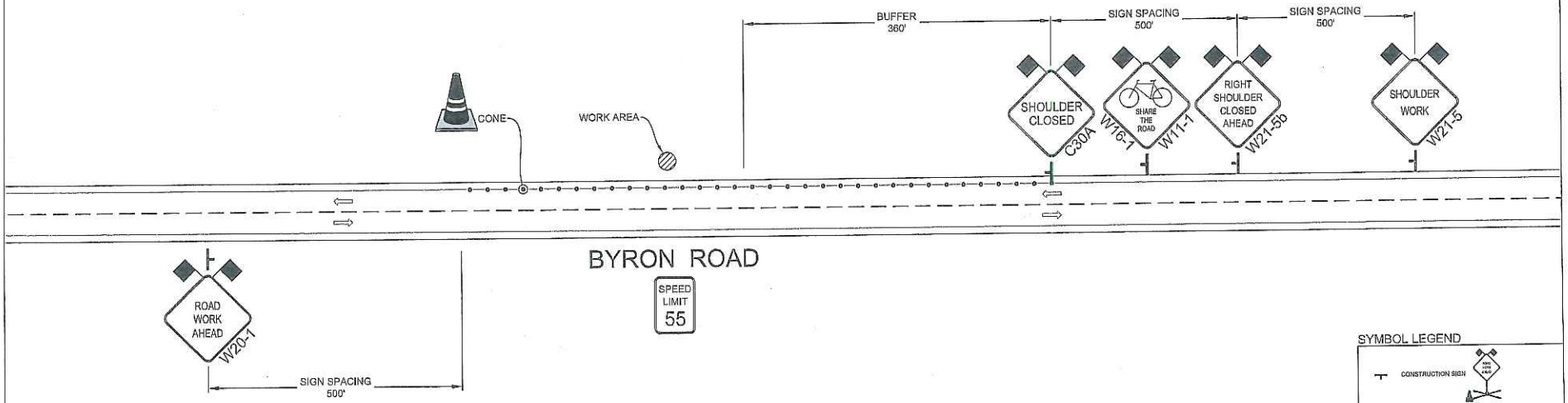
LOCATION BYRON ROAD, SAN JOAQUIN COUNTY, CA

CONTACT MONICA PINO
PHONE# (916) 804-0573

PROJECT NO. 150214
DRAWN SM
DESIGNED JL
CHECKED CAA
DATE APRIL 17, 2015

SHEET NO. 3 OF 6

TYPICAL SHOULDER CLOSURE



SYMBOL LEGEND

- CONSTRUCTION SIGN
- FLAGGER
- 28" CONE
- TYPE I BARRICADE
- TYPE III BARRICADE
- NO PARKING SIGN ON TYPE I BARRICADE
- FLASHING ARROW BOARD (FAB)

NOTES

- CONTRACTOR SHALL MAINTAIN/PROVIDE ACCESS TO ALL DRIVEWAYS AFFECTED BY THE WORK AREA.
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CONST. HOURS: 8:00AM-4:00PM MON-FRI

REVISIONS

REV.	DESCRIPTION	REVISED BY	DATE
REV. 1	ADDED SHEETS 5&6 PER CITY COMMENTS	BME	6/5/15

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ALMENDARIZ GROUP
1136 SUNCAST LN STE 9
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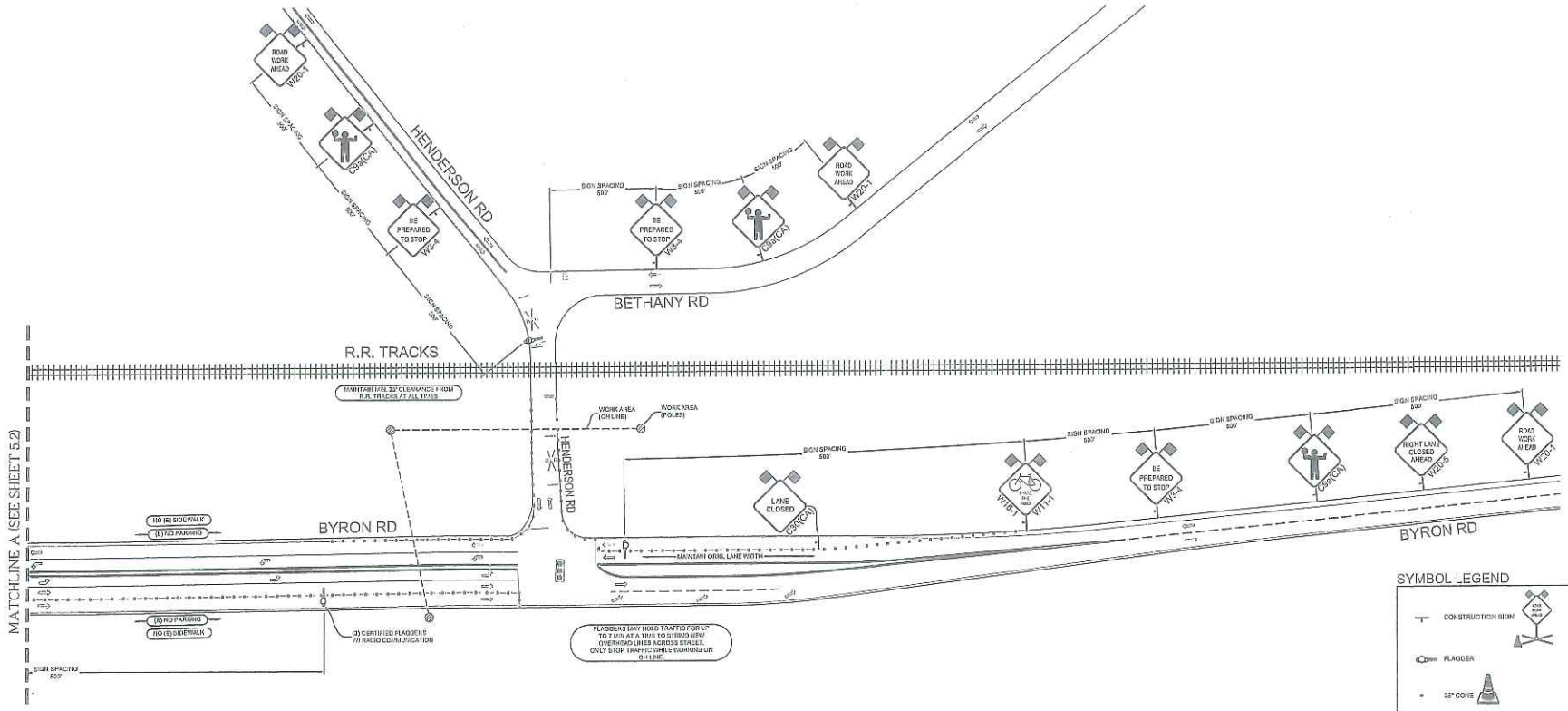
(888) 306-1211 OFFICE (888) 768-7022 FAX
CA C31 LIC #979806

LOCATION BYRON ROAD, SAN JOAQUIN COUNTY, CA

CONTACT MONICA PINO
PHONE# (916) 804-0573

PROJECT NO. 150214
DRAWN SM
DESIGNED JL
CHECKED CAA
DATE APRIL 17, 2015

SHEET NO. 4 OF 6



SYMBOL LEGEND

- CONSTRUCTION SIGN
- FLAGGER
- 36" CONE
- TYPE I BARRICADE
- TYPE III BARRICADE
- NO PARKING SIGN ON TYPE I BARRICADE
- FLASHING ARROW BOARD

NOTES

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CONST. HOURS: 8:00AM-4:00PM MON-FRI

REVISIONS

NO.	DESCRIPTION	REV DRN BY	DATE
REV. 1	ADDED SHEETS 5&6 PER CITY COMMENTS	BNE	5/5/15

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LOCATION BYRON ROAD, SAN JOAQUIN COUNTY, CA

CONTACT MONICA PINO
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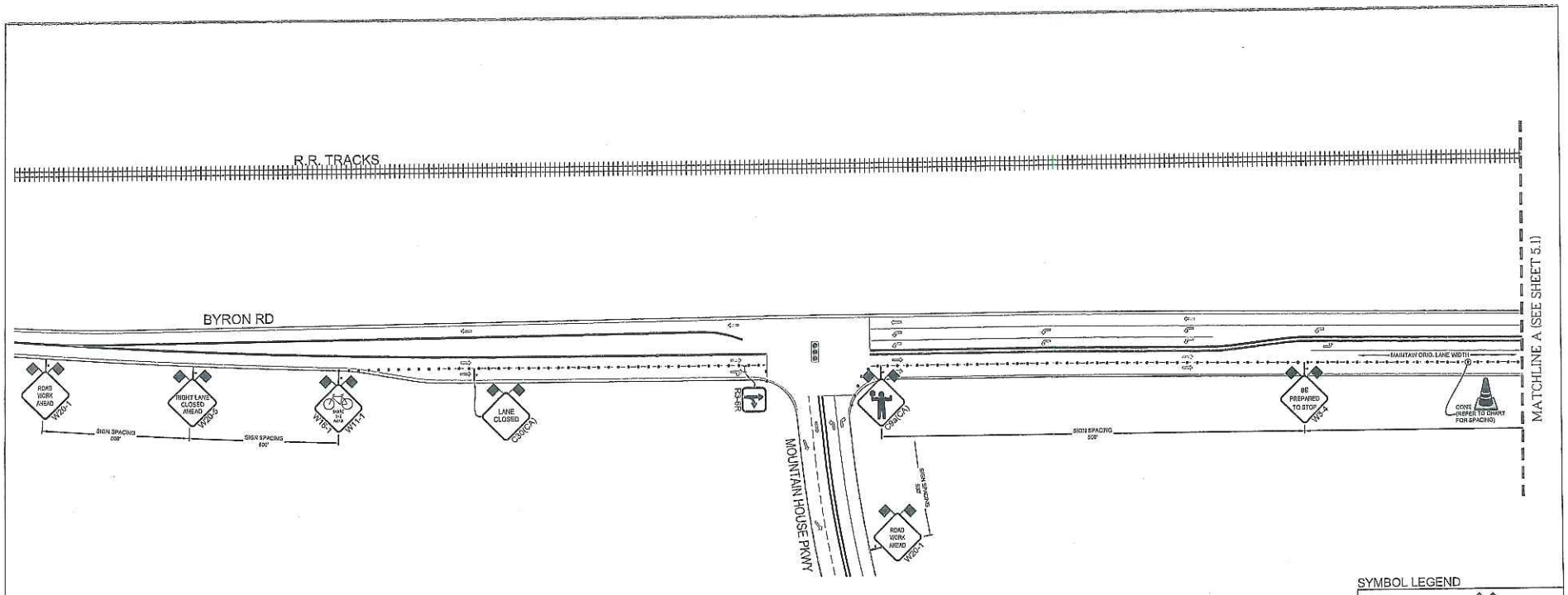
PROJECT NO. 150214
DRAWN SM
DESIGNED JL
CHECKED CAA

DATE
APRIL 17, 2015

SHEET NO. 5.1 OF 6



SYMBOL LEGEND

- CONSTRUCTION SIGN
- FLAGGER
- 28" CONE
- TYPE I BARRICADE
- TYPE III BARRICADE
- NO PARKING SIGN ON TYPE I BARRICADE
- FLASHING ARROW BOARD (FAS)

NOTES

- CONTRACTOR SHALL MAINTAIN/PROVIDE ACCESS TO ALL DRIVEWAYS AFFECTED BY THE WORK AREA.
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CONST. HOURS: 8:00AM-4:00PM MON-FRI

REVISIONS

REV.	DESCRIPTION	REVISED BY	DATE
REV. 1	ADDED SHEETS 5&6 PER CITY COMMENTS	BMS	8/5/15

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DRAWN SM
DESIGNED JL
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SHEET NO. 5.2 OF 6