APPENDIX G

Retaining Wall Locations and Build Alternative Layout

I-680 Northbound Express Lane Project (SR 237 to SR 84)

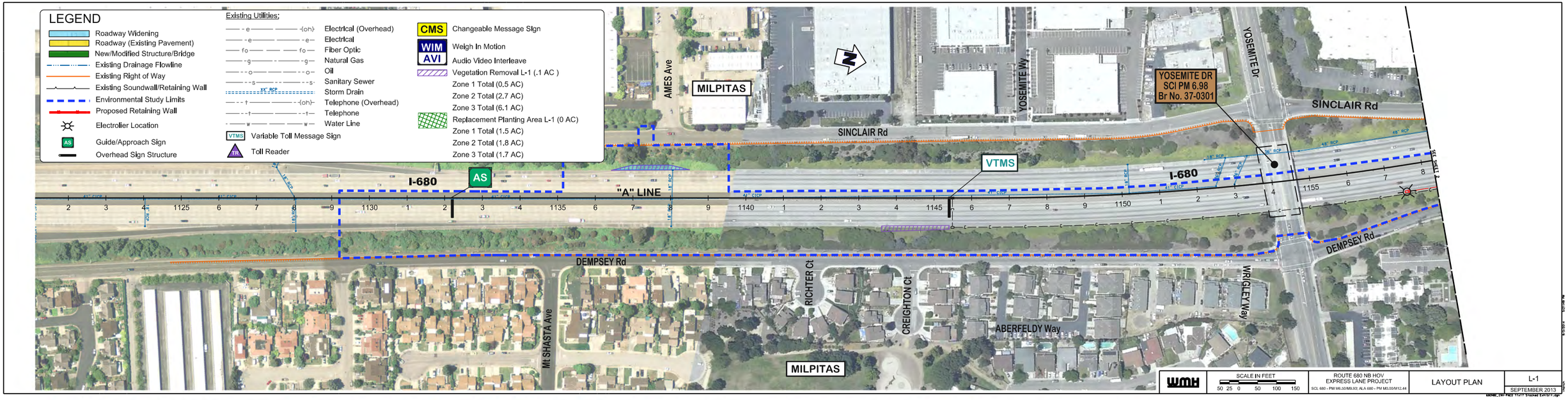
Retaining Wall List

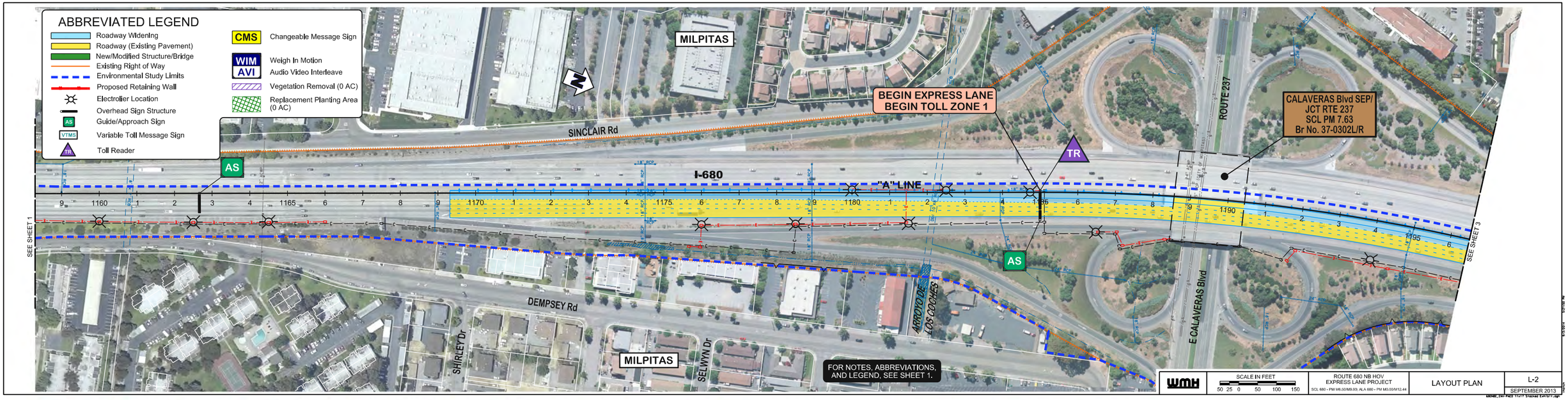
Wall No	NB 680				SB 680		Height (ft)	Length (ft)	Retain Cut/Fill	Sloping/Level Ground Behind	Recommended Retaining Wall System
	Median		Outside		Outside						
	FROM	TO	FROM	TO	FROM	TO					
Phase 1											
460			1477+50	1484+00			4 to 6	650	Fill	Level	Standard Cantilever Wall
564			1563+50	1578+74			7 to 18	1458	Cut	Sloping	Soil-Nail Wall
578			1578+74	1589+00			6 to 10	1026	Cut	Sloping	Standard Cantilever Wall
589			1589+00	1591+50			10	250	Cut	Sloping	Standard Cantilever Wall
593			1593+00	1594+00			5 to 6	100	Cut	Sloping	Standard Cantilever Wall
602			1606+40	1606+90			12	50	Cut	Sloping	Standard Cantilever Wall
608			1608+16	1618+41			22 to 24	1025	Cut	Sloping	Soil-Nail Wall
620			1619+29	1626+67			6 to 24	745	Cut	Sloping	Soil-Nail Wall
630			1627+00	1645+50			4 to 12	1850	Fill	Level	Standard Cantilever Wall
652			1652+50	1655+00			6 to 13	250	Fill	Level	Standard Cantilever Wall
655			1655+50	1671+68			6 to 17	1650	Cut	Sloping	Soil-Nail Wall
672			1671+68	1678+51			4 to 12	683	Fill	Level	Standard Cantilever Wall
679			1678+51	1685+82			6 to 24	710	Cut	Sloping	Soil-Nail Wall
696			1696+50	1708+40			4 to 13	1190	Fill	Level	Standard Cantilever Wall
710			1710+00	1710+91			4 to 12	91	Cut	Sloping	Standard Cantilever Wall
711			1710+91	1741+16			8 to 20	2966	Cut	Sloping	Soil-Nail Wall
739					1738+60	1740+50	4 to 6	190	Fill	Level	Standard Cantilever Wall
743					1742+50	1745+63	8 to 14	309	Cut	Sloping	Soil Nail Wall
752			1752+00	1753+00			8	100	Cut	Sloping	Standard Cantilever Wall
753			0012+00	0013+83			11 to 19	183	Cut	Sloping	Soil-Nail Wall
754			1754+00	1768+70			6 to 17	1454	Cut	Sloping	Soil-Nail Wall
771					0012+00	0017+50	8 to 16	550	Cut	Sloping	Soil-Nail Wall

I-680 Northbound Express Lane Project (SR 237 to SR 84)

Retaining Wall List

772					1772+50	1778+00	7 to 9	550	Cut	Sloping	Standard Cantilever Wall
782			1782+80	1789+00			5 to 19	617	Cut	Sloping	Soil-Nail Wall
790			1790+00	1802+00			5 to 21	1200	Cut	Sloping	Soil-Nail Wall
827			1827+00	1829+00			6 to 8	200	Fill	Level	Standard Cantilever Wall
835			1834+90	1839+00			6 to 10	410	Cut	Level	Standard Cantilever Wall
839			1839+00	1849+95			4 to 8	1095	Fill	Level	Standard Cantilever Wall
856			1856+00	1879+50			4 to 15	2350	Fill	Level	Standard Cantilever Wall
884			1884+00	1886+40			6 to 10	240	Fill	Level	Standard Cantilever Wall
891			1891+70	1896+40			7 to 12	470	Fill	Level	Standard Cantilever Wall
898			1897+90	1902+06			6 to 14	416	Fill	Level	Standard Cantilever Wall
902			1902+06	1908+31			6 to 15	667	Cut	Sloping	Soil-Nail Wall
914			1914+35	1917+50			4 to 8	315	Fill	Level	Standard Cantilever Wall
920			1920+65	1935+68			6 to 21	1535	Cut	Sloping	Soil-Nail Wall
Future Phases											
215	1215+00	1222+30					4 to 6	730	Fill	Level	Standard Cantilever Wall
278	1278+00	1313+00					4 to 8	3500	Fill	Level	Standard Cantilever Wall
320	1320+00	1351+00					4 to 6	3100	Fill	Level	Standard Cantilever Wall
354	1353+70	1387+70					4 to 12	3400	Fill	Level	Standard Cantilever Wall
389	1389+20	1413+81					4 to 14	2461	Fill	Level	Standard Cantilever Wall
428	1428+20	1433+80					4 to 8	560	Fill	Level	Standard Cantilever Wall


LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Drainage Flowline
Existing Right of Way
Existing Soundwall/Retaining Wall
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Guide/Approach Sign
Overhead Sign Structure
Existing Utilities:
Electrical (Overhead)
Electrical
Fiber Optic
Natural Gas
Oil
Sanitary Sewer
Storm Drain
Telephone (Overhead)
Telephone
Water Line
VTMS Variable Toll Message Sign
TR Toll Reader
CMS Changeable Message Sign
WIM AVI Weigh In Motion Audio Video Interleave
Vegetation Removal L-1 (.1 AC)
Zone 1 Total (0.5 AC)
Zone 2 Total (2.7 AC)
Zone 3 Total (6.1 AC)
Replacement Planting Area L-1 (0 AC)
Zone 1 Total (1.5 AC)
Zone 2 Total (1.8 AC)
Zone 3 Total (1.7 AC)
MILPITAS
AMES Ave
YOSEMITE Wy
YOSEMITE DR
SCL PM 6.98
Br No. 37-0301
YOSEMITE Dr
SINCLAIR Rd
I-680
AS
"A" LINE
VTMS
DEMPSEY Rd
RICHTER Ct
CREIGHTON Ct
ABERFELDY Way
WRIGLEY Way
Mt SHASTA Ave
MILPITAS
SEE SHEET 2
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV
EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-1
SEPTEMBER 2013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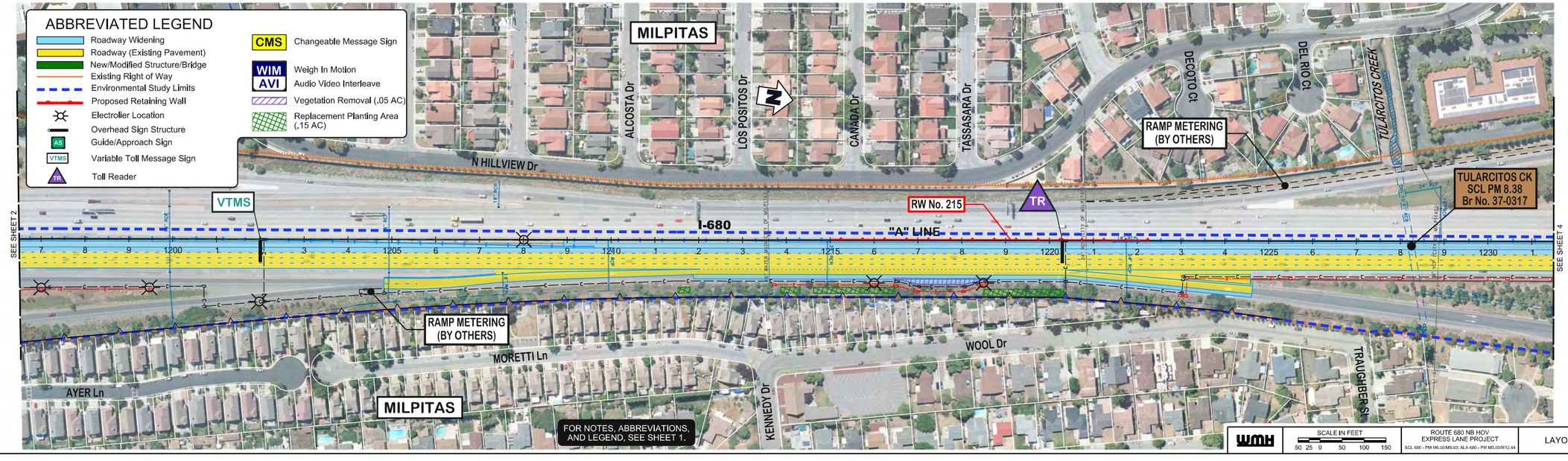
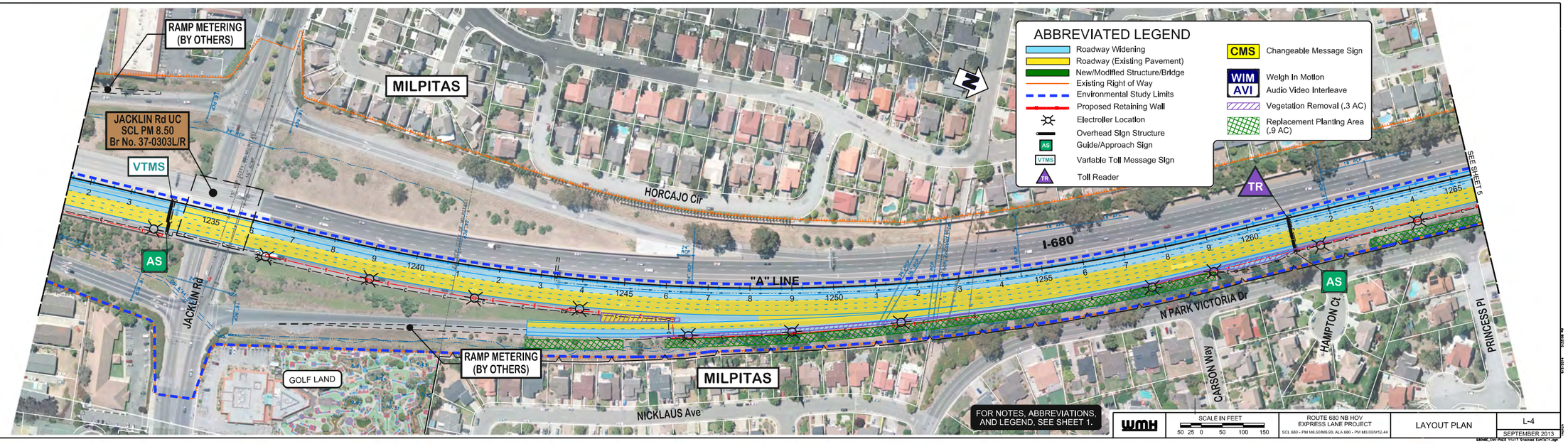
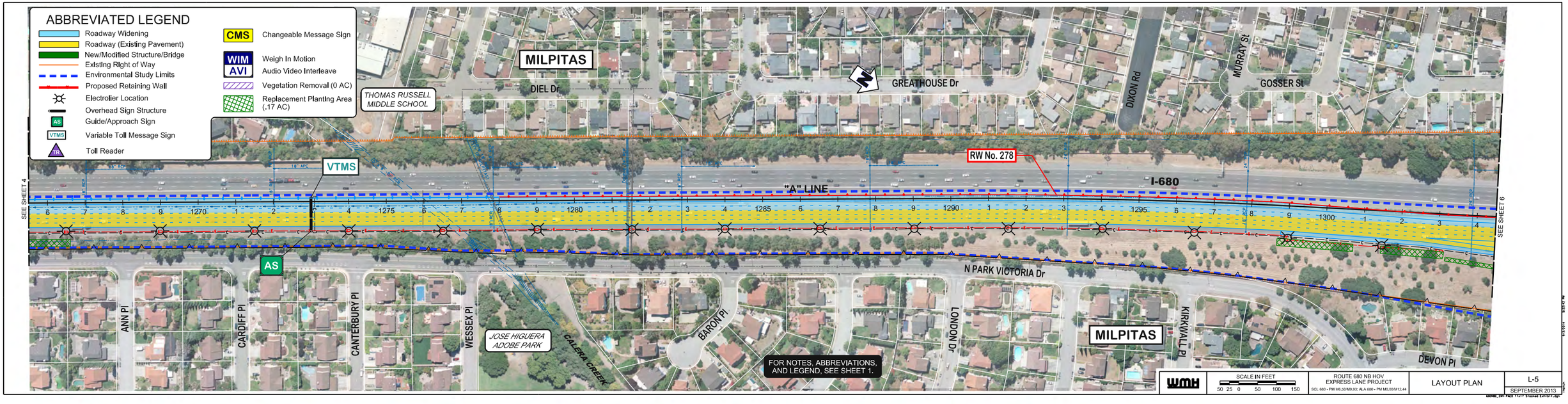
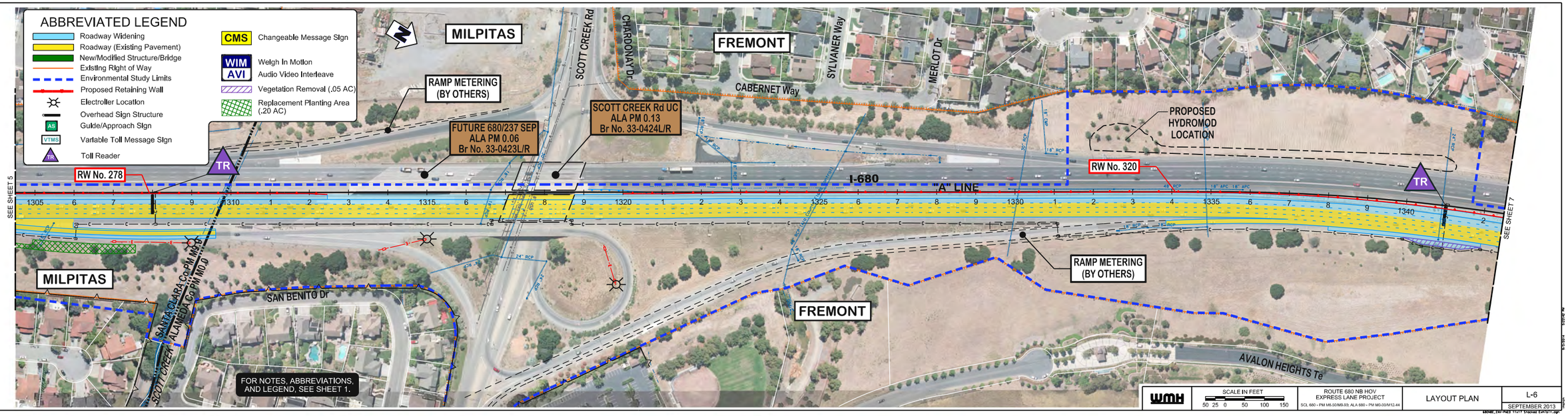
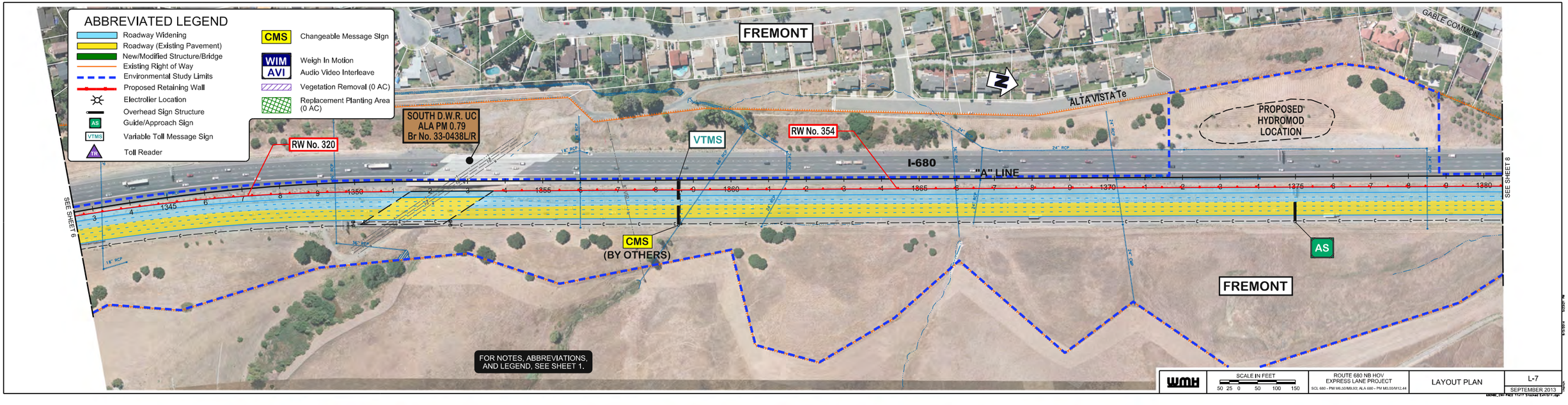
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
AS Guide/Approach Sign
VTMS Variable Toll Message Sign
TR Toll Reader
CMS Changeable Message Sign
WIM AVI Weigh In Motion Audio Video Interleave
Vegetation Removal (0 AC)
Replacement Planting Area (0 AC)
MILPITAS
SINCLAIR Rd
BEGIN EXPRESS LANE
BEGIN TOLL ZONE 1
TR
CALAVERAS Blvd SEP/
JCT RTE 237
SCL PM 7.63
Br No. 37-0302L/R
ROUTE 237
I-680
"A" LINE
AS
DEMPSEY Rd
SHIRLEY Dr
SELWYN Dr
ARROYO DR
LOS COCHES
E CALAVERAS Blvd
MILPITAS
SEE SHEET 1
SEE SHEET 3
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV
EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-2
SEPTEMBER 2013

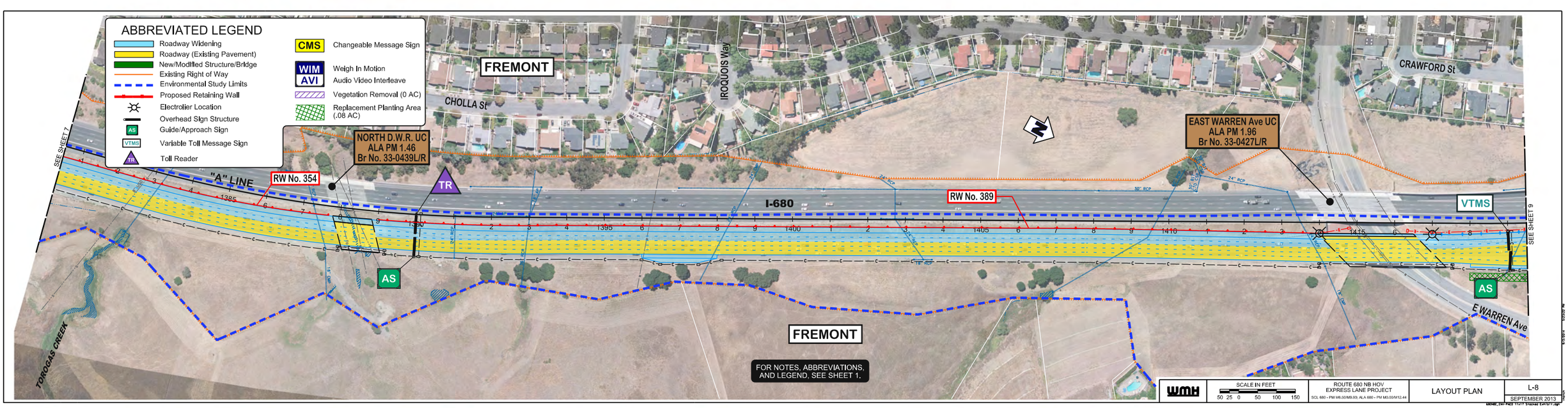

ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
Guide/Approach Sign
Variable Toll Message Sign
Toll Reader
CMS Changeable Message Sign
WIM AVI Weigh In Motion / Audio Video Interleave
Vegetation Removal (.05 AC)
Replacement Planting Area (.15 AC)
MILPITAS
N HILLVIEW Dr
ALCOSTA Dr
LOS POSITOS Dr
CANADA Dr
TASSAJARA Dr
DECOTO Ct
DEL RIO Ct
TULARCITOS CREEK
RAMP METERING (BY OTHERS)
TULARCITOS CK SCL PM 8.38 Br No. 37-0317
VTMS
I-680
"A" LINE
RW No. 215
TR
SEE SHEET 2
SEE SHEET 4
MORETTI Ln
AYER Ln
WOOL Dr
KENNEDY Dr
TRAUGHBER St
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-3
SEPTEMBER 2013

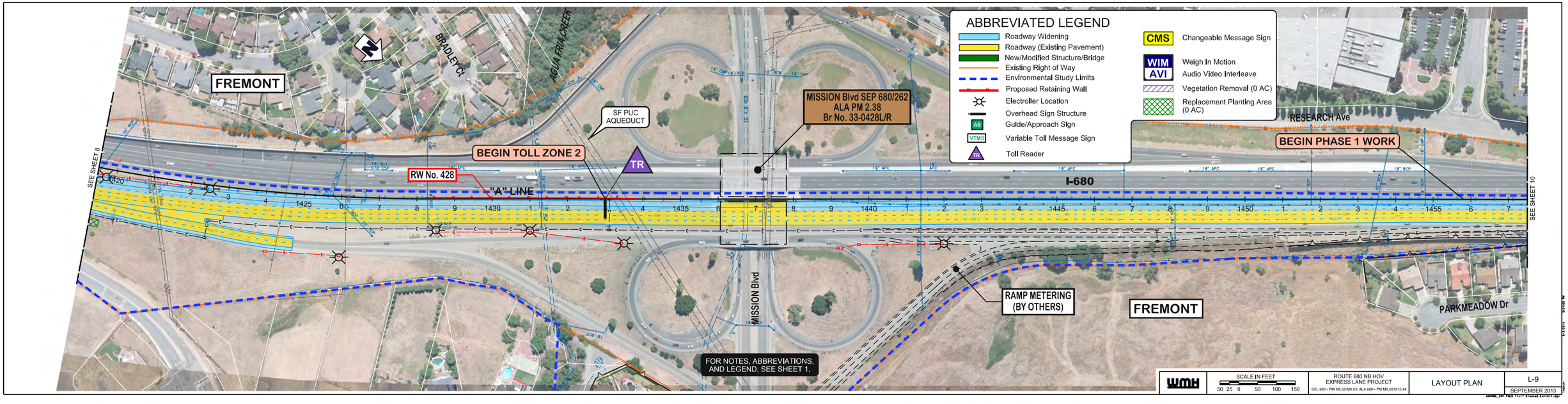

RAMP METERING (BY OTHERS)
JACKLIN Rd UC SCL PM 8.50 Br No. 37-0303L/R
VTMS
AS
MILPITAS
HORCAJO Cir
I-680
"A" LINE
JACKLIN Rd
GOLF LAND
RAMP METERING (BY OTHERS)
NICKLAUS Ave
N PARK VICTORIA Dr
CARSON Way
HAMPTON Ct
PRINCESS Pl
SEE SHEET 5
ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
Guide/Approach Sign
Variable Toll Message Sign
Toll Reader
CMS Changeable Message Sign
WIM AVI Weigh In Motion / Audio Video Interleave
Vegetation Removal (.3 AC)
Replacement Planting Area (.9 AC)
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-4
SEPTEMBER 2013

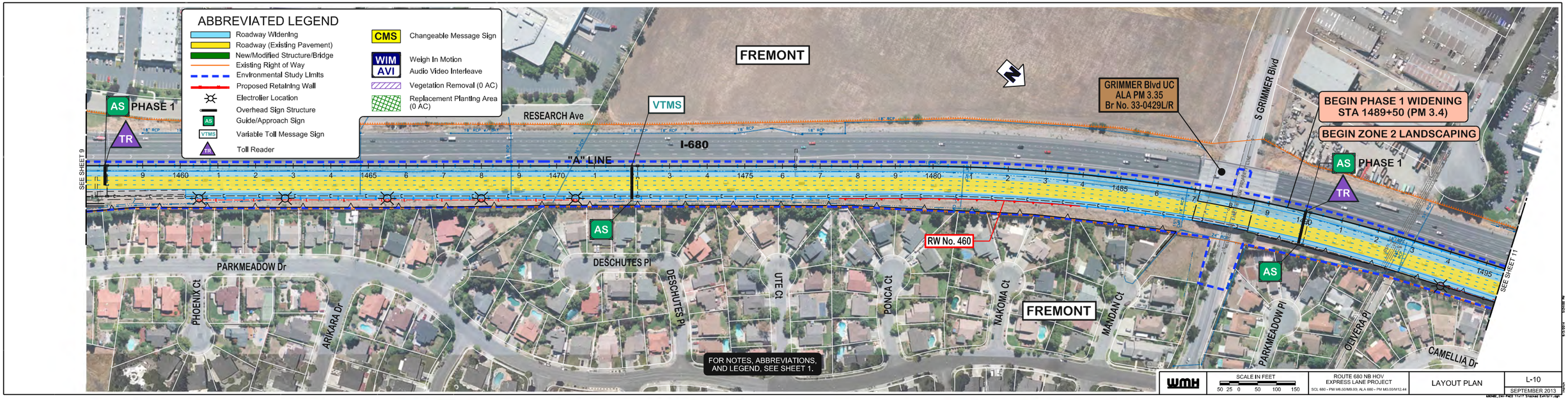

ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
AS Guide/Approach Sign
VTMS Variable Toll Message Sign
TR Toll Reader
CMS Changeable Message Sign
WIM AVI Weigh In Motion / Audio Video Interleave
Vegetation Removal (0 AC)
Replacement Planting Area (.17 AC)
MILPITAS
DIEL Dr
THOMAS RUSSELL MIDDLE SCHOOL
GREATHOUSE Dr
DIXON Rd
MURRAY St
GOSSER St
VTMS
RW No. 278
"A" LINE
I-680
SEE SHEET 4
SEE SHEET 6
AS
N PARK VICTORIA Dr
ANN PI
CARDIFF PI
CANTERBURY PI
WESSEX PI
JOSE HIGUERA ADOBE PARK
CALERA CREEK
BARON PI
LONDON Dr
MILPITAS
KIRKWALL PI
DEVON PI
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-5
SEPTEMBER 2013

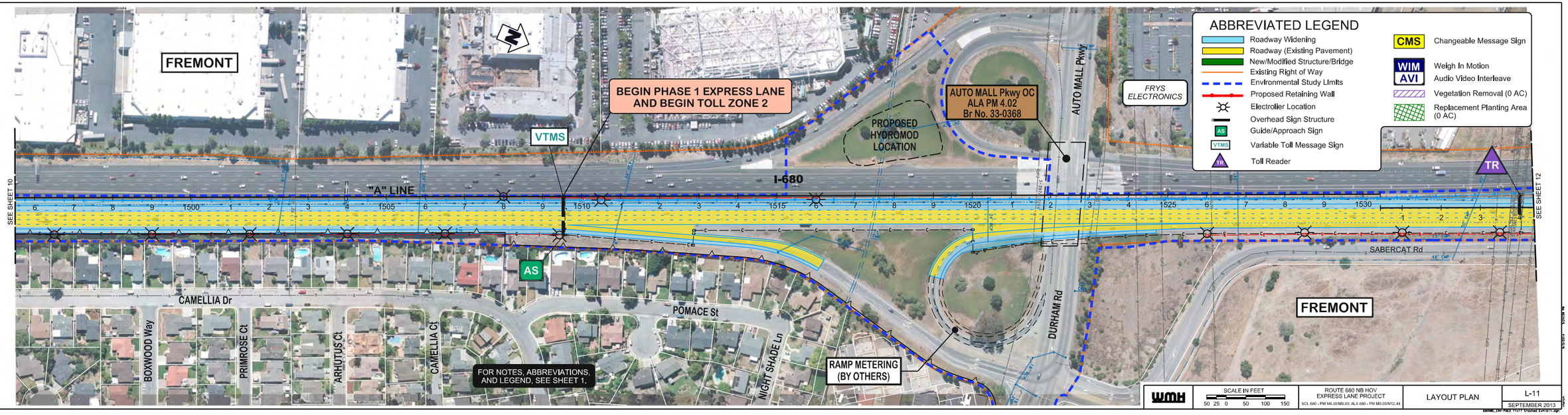

ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
AS Guide/Approach Sign
VTMS Variable Toll Message Sign
TR Toll Reader
CMS Changeable Message Sign
WIM AVI Weigh In Motion / Audio Video Interleave
Vegetation Removal (.05 AC)
Replacement Planting Area (.20 AC)
MILPITAS
SCOTT CREEK Rd
CHARDONAY Dr
FREMONT
SYLVANER Way
MERLOT Dr
CABERNET Way
RAMP METERING (BY OTHERS)
FUTURE 680/237 SEP ALA PM 0.06 Br No. 33-0423L/R
SCOTT CREEK Rd UC ALA PM 0.13 Br No. 33-0424L/R
PROPOSED HYDROMOD LOCATION
RW No. 278
RW No. 320
TR
I-680
"A" LINE
SEE SHEET 5
SEE SHEET 7
MILPITAS
SANTA CLARA Co PM M0.0
ALAMEDA Co PM M0.0
SCOTT CREEK
SAN BENITO Dr
FREMONT
RAMP METERING (BY OTHERS)
AVALON HEIGHTS Te
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-6
SEPTEMBER 2013

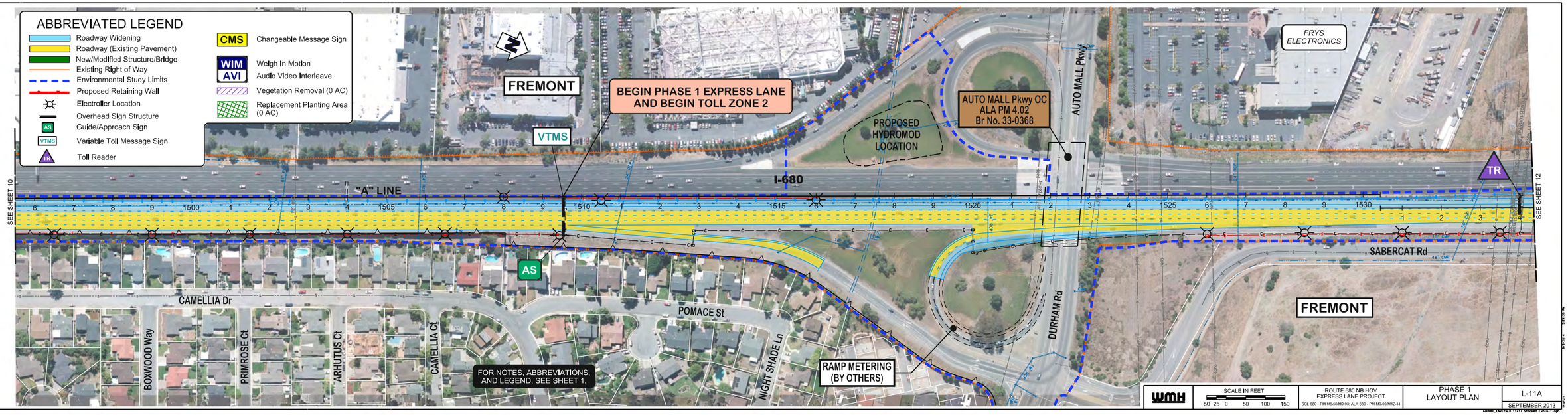

ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
AS Guide/Approach Sign
VTMS Variable Toll Message Sign
TR Toll Reader
CMS Changeable Message Sign
WIM AVI Weigh In Motion Audio Video Interleave
Vegetation Removal (0 AC)
Replacement Planting Area (0 AC)
FREMONT
GABLE COMMON
ALTA VISTA Te
PROPOSED HYDROMOD LOCATION
SOUTH D.W.R. UC
ALA PM 0.79
Br No. 33-0438L/R
RW No. 320
RW No. 354
VTMS
I-680
"A" LINE
SEE SHEET 6
SEE SHEET 8
CMS
(BY OTHERS)
AS
FREMONT
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV
EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-7
SEPTEMBER 2013

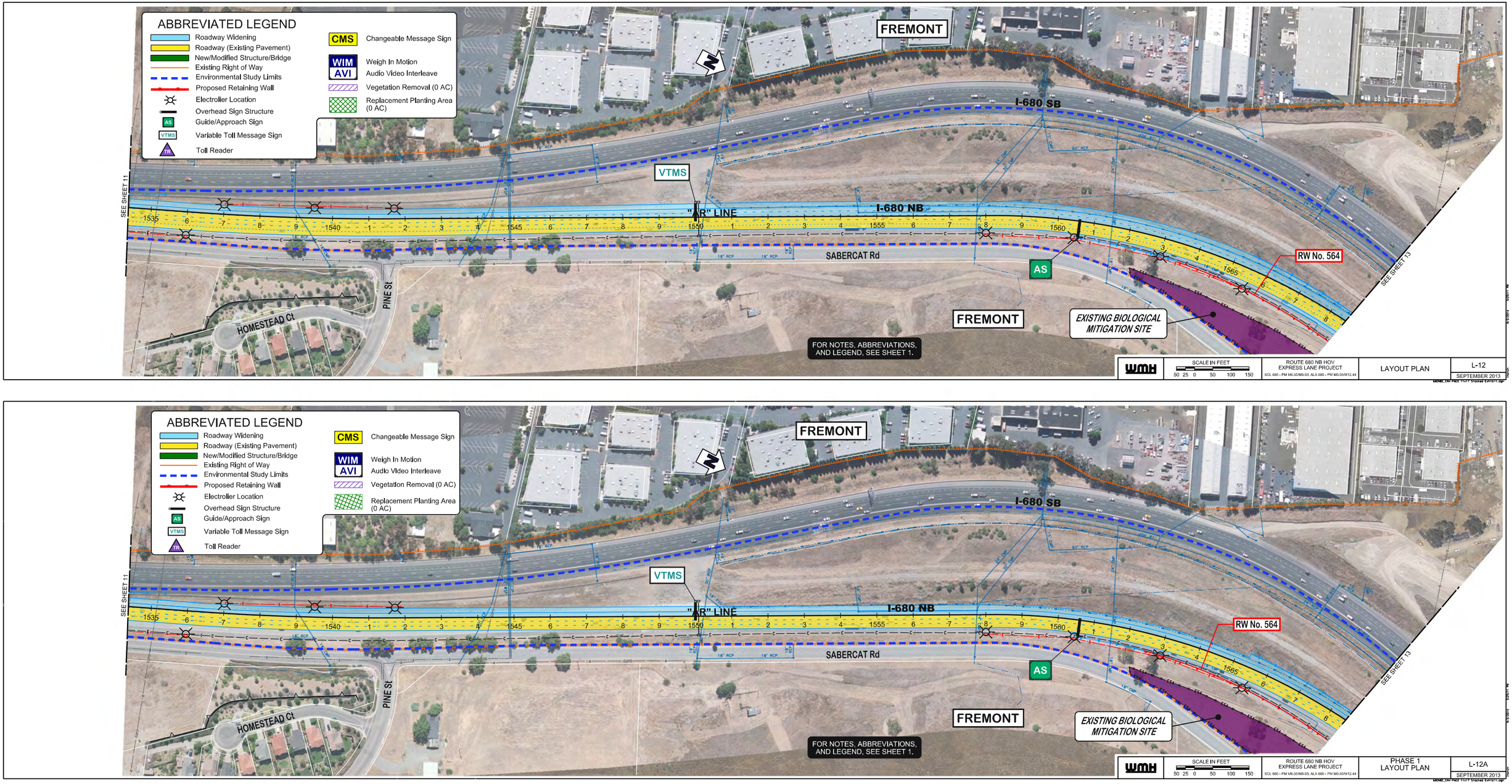

ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
AS Guide/Approach Sign
VTMS Variable Toll Message Sign
TR Toll Reader
CMS Changeable Message Sign
WIM AVI Weigh In Motion Audio Video Interleave
Vegetation Removal (0 AC)
Replacement Planting Area (.08 AC)
FREMONT
CHOLLA St
IROQUOIS Way
CRAWFORD St
SEE SHEET 7
NORTH D.W.R. UC
ALA PM 1.46
Br No. 33-0439L/R
EAST WARREN Ave UC
ALA PM 1.96
Br No. 33-0427L/R
"A" LINE
RW No. 354
RW No. 389
I-680
VTMS
SEE SHEET 9
TR
AS
AS
E WARREN Ave
TOROGAS CREEK
FREMONT
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV
EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-8
SEPTEMBER 2013


ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electroller Location
Overhead Sign Structure
Gulde/Approach Sign
Variable Toll Message Sign
Toll Reader
CMS
Changeable Message Sign
WIM
AVI
Weigh In Motion
Audio Video Interleave
Vegetation Removal (0 AC)
Replacement Planting Area (0 AC)
FREMONT
BRADLEY Ct
AGUA FRIA CREEK
SF PUC AQUEDUCT
MISSION Blvd SEP 680/262
ALA PM 2.38
Br No. 33-0428L/R
BEGIN TOLL ZONE 2
RW No. 428
"A" LINE
I-680
RESEARCH Ave
BEGIN PHASE 1 WORK
SEE SHEET 8
SEE SHEET 10
MISSION Blvd
RAMP METERING (BY OTHERS)
FREMONT
PARKMEADOW Dr
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-9
SEPTEMBER 2013

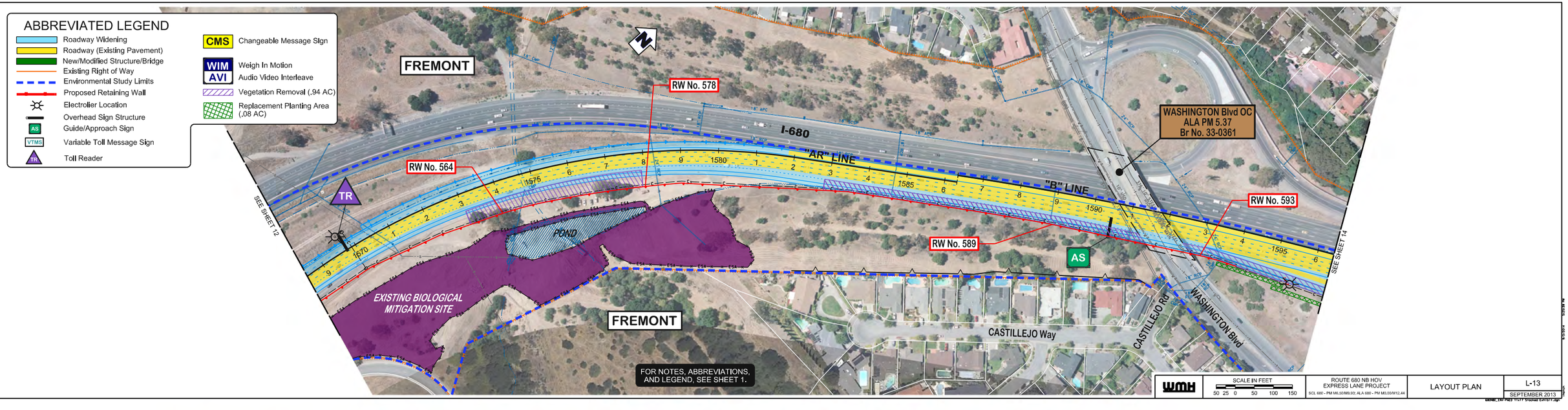

ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electroller Location
Overhead Sign Structure
Guide/Approach Sign
Variable Toll Message Sign
Toll Reader
CMS
Changeable Message Sign
WIM
AVI
Weigh In Motion
Audio Video Interleave
Vegetation Removal (0 AC)
Replacement Planting Area (0 AC)
AS PHASE 1
TR
VTMS
RESEARCH Ave
I-680
"A" LINE
FREMONT
GRIMMER Blvd UC
ALA PM 3.35
Br No. 33-0429L/R
S GRIMMER Blvd
BEGIN PHASE 1 WIDENING
STA 1489+50 (PM 3.4)
BEGIN ZONE 2 LANDSCAPING
AS PHASE 1
SEE SHEET 9
SEE SHEET 11
RW No. 460
PARKMEADOW Dr
DESCHUTES Pl
PHOENIX Ct
ARIKARA Dr
UTE Ct
PONCA Ct
NAKOMA Ct
MANDAN Ct
PARKMEADOW Pl
OLIVERA Pl
CAMELLIA Dr
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-10
SEPTEMBER 2013

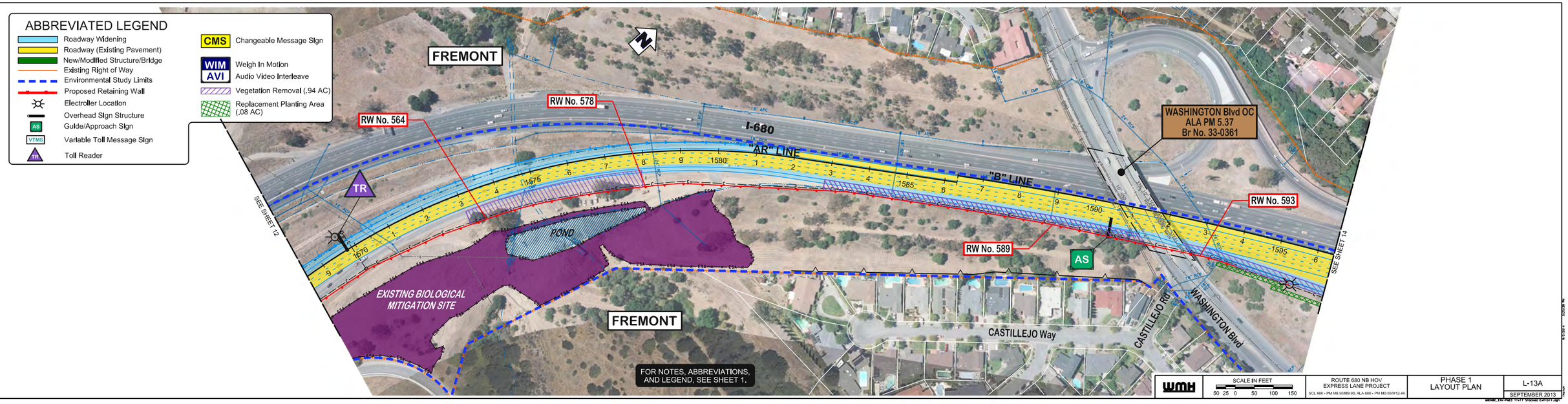

ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
Guide/Approach Sign
Variable Toll Message Sign
Toll Reader
CMS Changeable Message Sign
WIM Weigh In Motion
AVI Audio Video Interleave
Vegetation Removal (0 AC)
Replacement Planting Area (0 AC)
FREMONT
BEGIN PHASE 1 EXPRESS LANE AND BEGIN TOLL ZONE 2
VTMS
PROPOSED HYDROMOD LOCATION
AUTO MALL Pkwy OC ALA PM 4.02 Br No. 33-0368
AUTO MALL Pkwy
FRYS ELECTRONICS
I-680
"A" LINE
SEE SHEET 10
SEE SHEET 12
AS
TR
CAMELLIA Dr
POMACE St
SABERCAT Rd
DURHAM Rd
BOXWOOD Way
PRIMROSE Ct
ARHUTUS Ct
CAMELLIA Ct
NIGHT SHADE Ln
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
RAMP METERING (BY OTHERS)
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-11
SEPTEMBER 2013

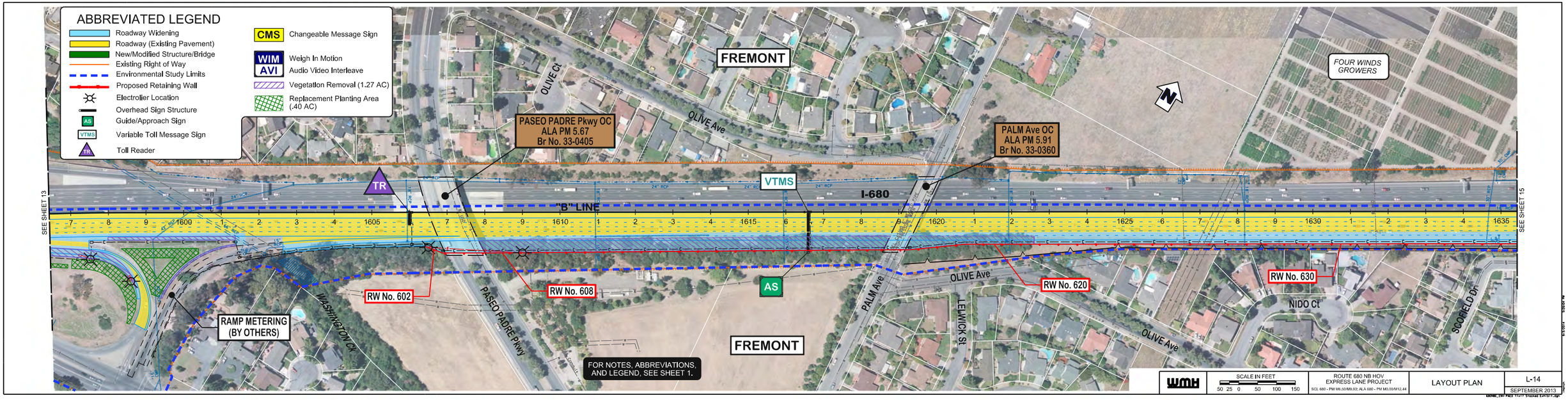

ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
Guide/Approach Sign
Variable Toll Message Sign
Toll Reader
CMS Changeable Message Sign
WIM Weigh In Motion
AVI Audio Video Interleave
Vegetation Removal (0 AC)
Replacement Planting Area (0 AC)
FREMONT
BEGIN PHASE 1 EXPRESS LANE AND BEGIN TOLL ZONE 2
VTMS
PROPOSED HYDROMOD LOCATION
AUTO MALL Pkwy OC ALA PM 4.02 Br No. 33-0368
AUTO MALL Pkwy
FRYS ELECTRONICS
I-680
"A" LINE
SEE SHEET 10
SEE SHEET 12
AS
TR
CAMELLIA Dr
POMACE St
SABERCAT Rd
DURHAM Rd
BOXWOOD Way
PRIMROSE Ct
ARHUTUS Ct
CAMELLIA Ct
NIGHT SHADE Ln
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
RAMP METERING (BY OTHERS)
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
PHASE 1 LAYOUT PLAN
L-11A
SEPTEMBER 2013

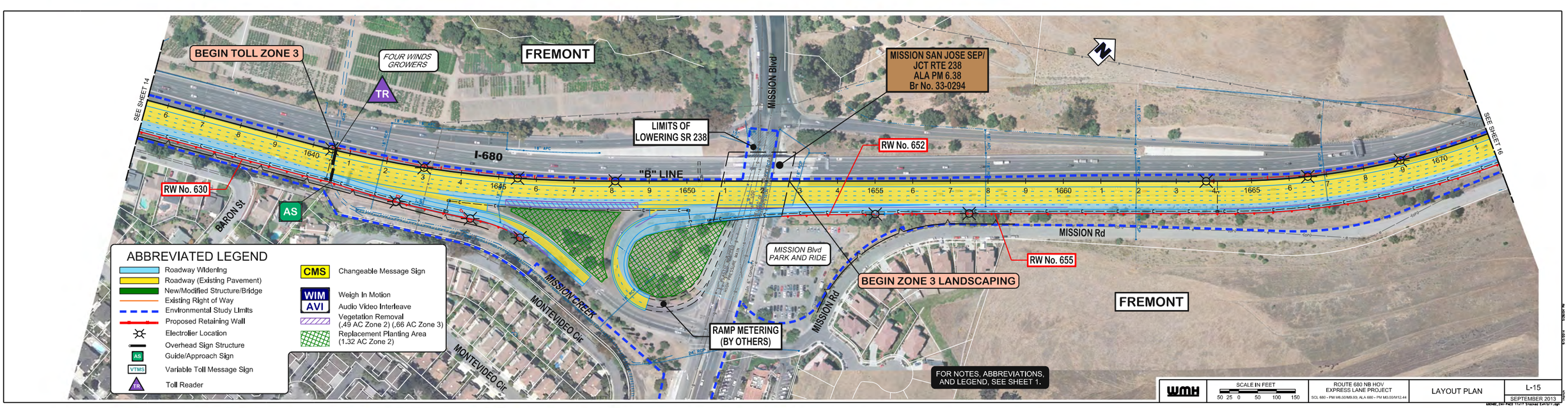


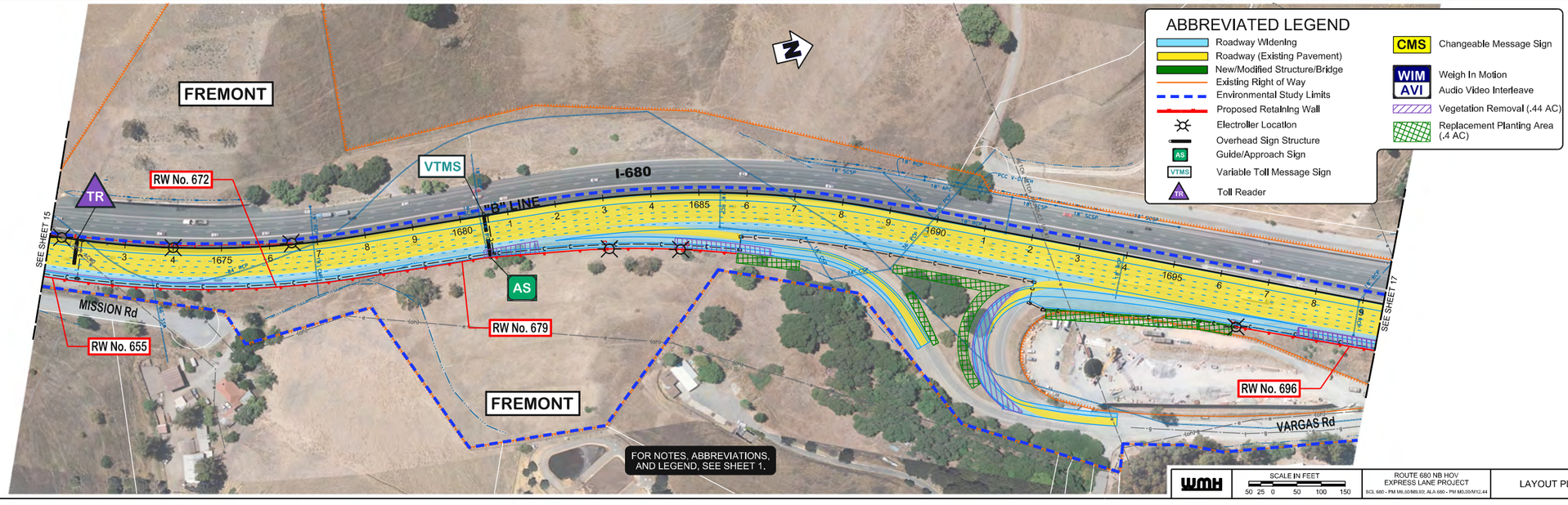
ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
AS Guide/Approach Sign
VTMS Variable Toll Message Sign
TR Toll Reader
CMS Changeable Message Sign
WIM AVI Weigh In Motion Audio Video Interleave
Vegetation Removal (0 AC)
Replacement Planting Area (0 AC)
FREMONT
I-680 SB
I-680 NB
VTMS
"AR" LINE
SABERCAT Rd
AS
RW No. 564
EXISTING BIOLOGICAL MITIGATION SITE
HOMESTEAD Ct
PINE St
SEE SHEET 11
SEE SHEET 13
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
PHASE 1
LAYOUT PLAN
L-12A
SEPTEMBER 2013


ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
AS Guide/Approach Sign
VTMS Variable Toll Message Sign
TR Toll Reader
CMS Changeable Message Sign
WIM AVI Weigh In Motion Audio Video Interleave
Vegetation Removal (.94 AC)
Replacement Planting Area (.08 AC)
FREMONT
RW No. 578
RW No. 564
RW No. 589
RW No. 593
I-680
"AR" LINE
"B" LINE
WASHINGTON Blvd OC
ALA PM 5.37
Br No. 33-0361
TR
AS
POND
EXISTING BIOLOGICAL MITIGATION SITE
CASTILLEJO Way
CASTILLEJO RD
WASHINGTON Blvd
SEE SHEET 12
SEE SHEET 14
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-13
SEPTEMBER 2013

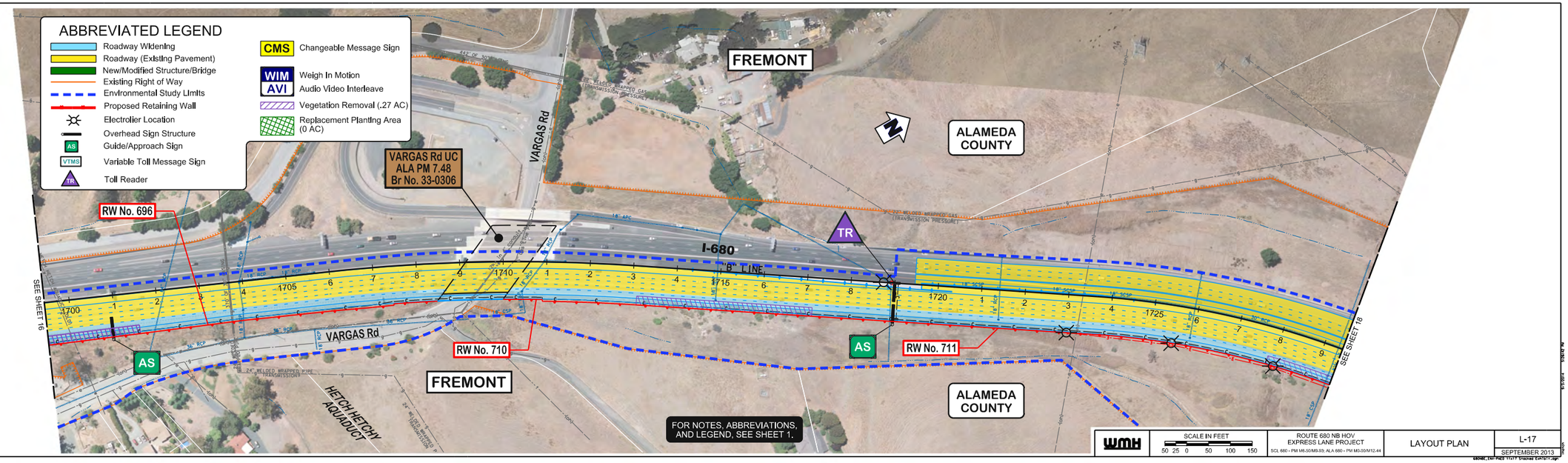

ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
AS Guide/Approach Sign
VTMS Variable Toll Message Sign
TR Toll Reader
CMS Changeable Message Sign
WIM AVI Weigh In Motion Audio Video Interleave
Vegetation Removal (.94 AC)
Replacement Planting Area (.08 AC)
FREMONT
RW No. 578
RW No. 564
RW No. 589
RW No. 593
I-680
"AR" LINE
"B" LINE
WASHINGTON Blvd OC
ALA PM 5.37
Br No. 33-0361
TR
AS
POND
EXISTING BIOLOGICAL MITIGATION SITE
CASTILLEJO Way
CASTILLEJO RD
WASHINGTON Blvd
SEE SHEET 12
SEE SHEET 14
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
PHASE 1 LAYOUT PLAN
L-13A
SEPTEMBER 2013


ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
AS Guide/Approach Sign
VTMS Variable Toll Message Sign
TR Toll Reader
CMS Changeable Message Sign
WIM AVI Weigh In Motion Audio Video Interleave
Vegetation Removal (1.27 AC)
Replacement Planting Area (.40 AC)
FREMONT
OLIVE Ct
OLIVE Ave
FOUR WINDS GROWERS
PASEO PADRE Pkwy OC
ALA PM 5.67
Br No. 33-0405
PALM Ave OC
ALA PM 5.91
Br No. 33-0360
TR
VTMS
I-680
"B" LINE
AS
RW No. 602
RW No. 608
RW No. 620
RW No. 630
RAMP METERING (BY OTHERS)
Washington Dr
PASEO PADRE Pkwy
PALM Ave
LEWICK St
NIDO Ct
SCOFIELD Dr
FREMONT
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
SEE SHEET 13
SEE SHEET 15
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-14
SEPTEMBER 2013

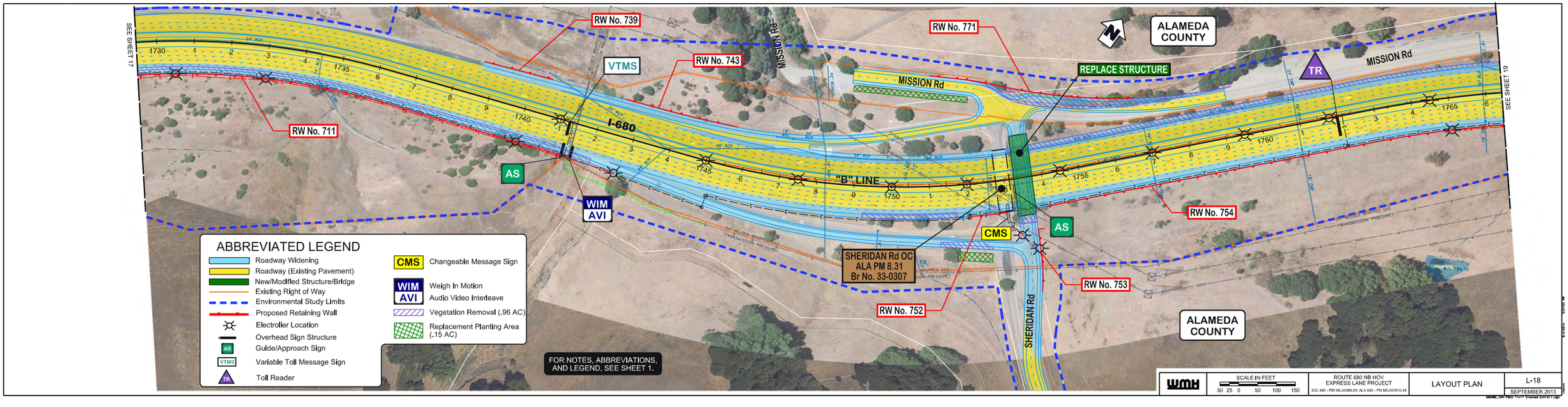

BEGIN TOLL ZONE 3
FOUR WINDS GROWERS
TR
FREMONT
MISSION Blvd
MISSION SAN JOSE SEP/ JCT RTE 238
ALA PM 6.38
Br No. 33-0294
LIMITS OF LOWERING SR 238
I-680
"B" LINE
RW No. 652
RW No. 630
AS
BARON St
MISSION Rd
MISSION Blvd PARK AND RIDE
RW No. 655
BEGIN ZONE 3 LANDSCAPING
MISSION CREEK
MONTEVIDEO Cir
MONTEVIDEO Cir
RAMP METERING (BY OTHERS)
FREMONT
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
SEE SHEET 14
SEE SHEET 16
ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
AS Guide/Approach Sign
VTMS Variable Toll Message Sign
TR Toll Reader
CMS Changeable Message Sign
WIM AVI Weigh In Motion Audio Video Interleave
Vegetation Removal (.49 AC Zone 2) (.66 AC Zone 3)
Replacement Planting Area (1.32 AC Zone 2)
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-15
SEPTEMBER 2013



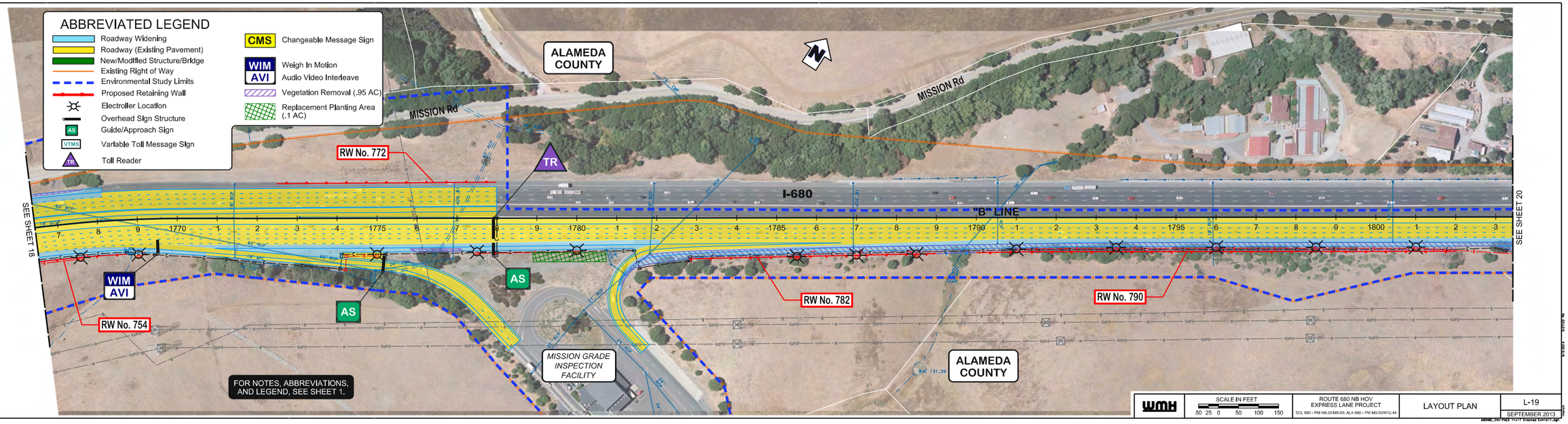
WMH | SCALE IN FEET 50 25 0 50 100 150 | ROUTE 680 NB HOV EXPRESS LANE PROJECT | SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44 | LAYOUT PLAN | L-16 | SEPTEMBER 2013



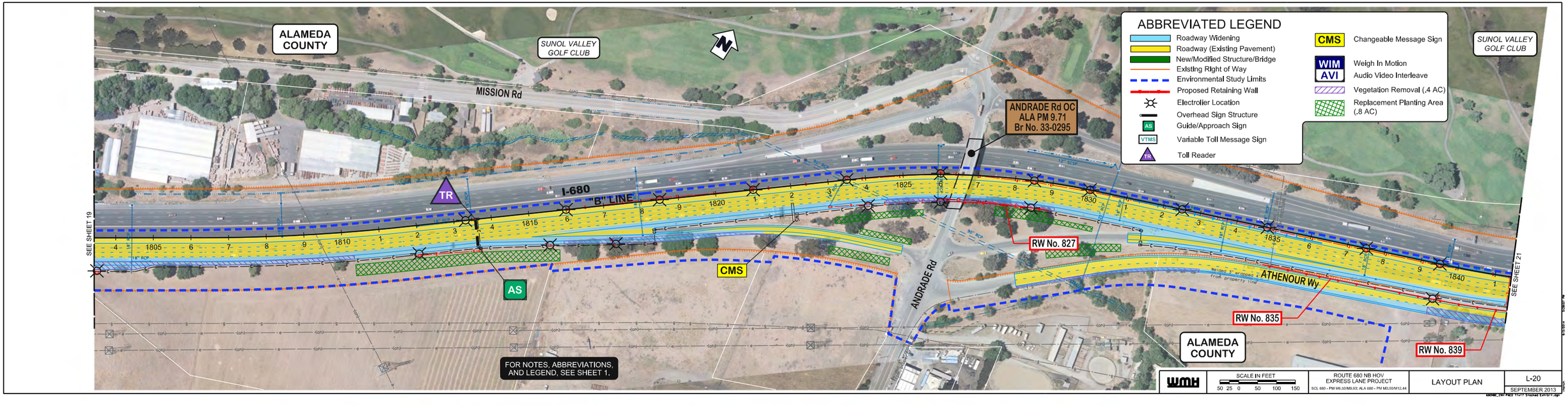
WMH | SCALE IN FEET 50 25 0 50 100 150 | ROUTE 680 NB HOV EXPRESS LANE PROJECT | SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44 | LAYOUT PLAN | L-17 | SEPTEMBER 2013

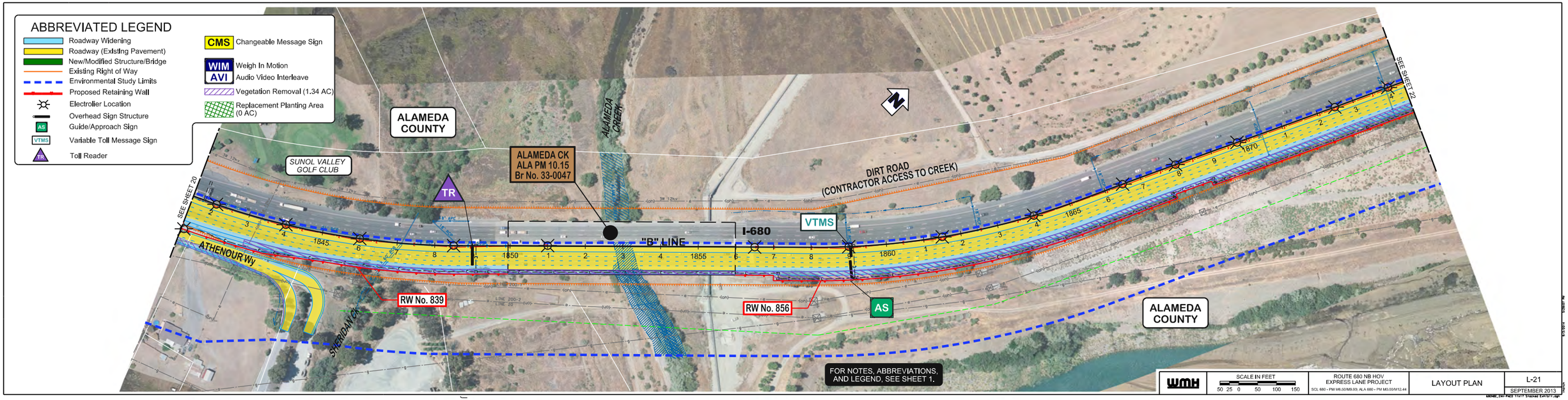


WMH | SCALE IN FEET 50 25 0 50 100 150 | ROUTE 680 NB HOV EXPRESS LANE PROJECT | SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44 | LAYOUT PLAN | L-18 | SEPTEMBER 2013



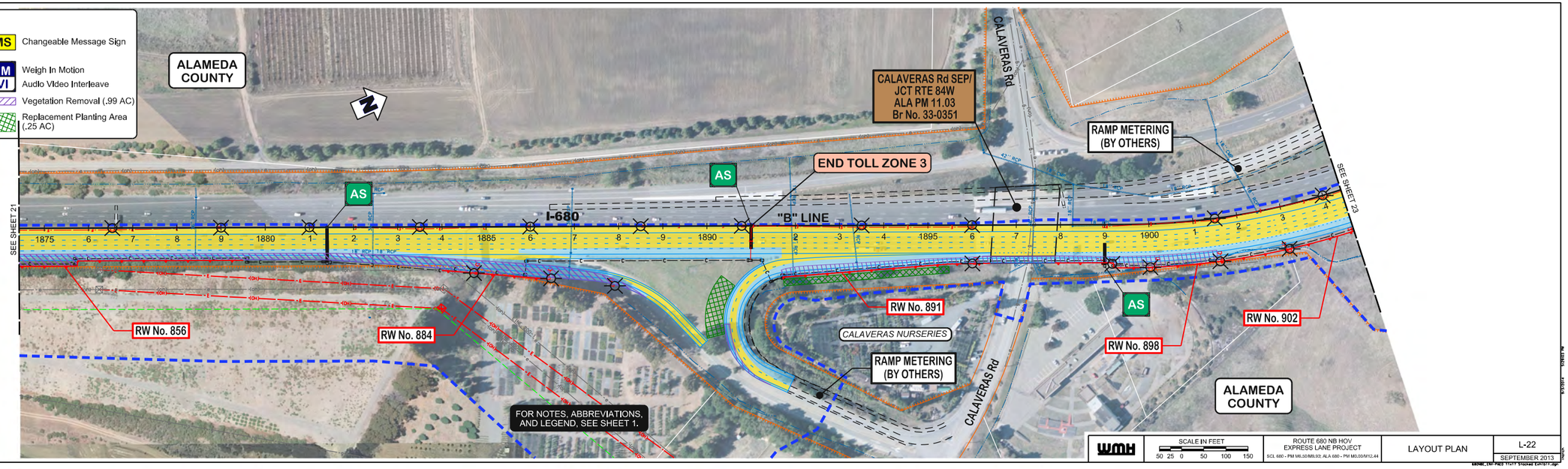
WMH | SCALE IN FEET 50 25 0 50 100 150 | ROUTE 680 NB HOV EXPRESS LANE PROJECT | SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44 | LAYOUT PLAN | L-19 | SEPTEMBER 2013


ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
AS Guide/Approach Sign
VTMS Variable Toll Message Sign
TR Toll Reader
CMS Changeable Message Sign
WIM AVI Weigh In Motion Audio Video Interleave
Vegetation Removal (.4 AC)
Replacement Planting Area (.8 AC)
ALAMEDA COUNTY
SUNOL VALLEY GOLF CLUB
MISSION Rd
ANDRADE Rd OC
ALA PM 9.71
Br No. 33-0295
I-680
"B" LINE
TR
AS
CMS
ANDRADE Rd
ATHENOUR Wy
RW No. 827
RW No. 835
RW No. 839
SEE SHEET 19
SEE SHEET 21
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-20
SEPTEMBER 2013

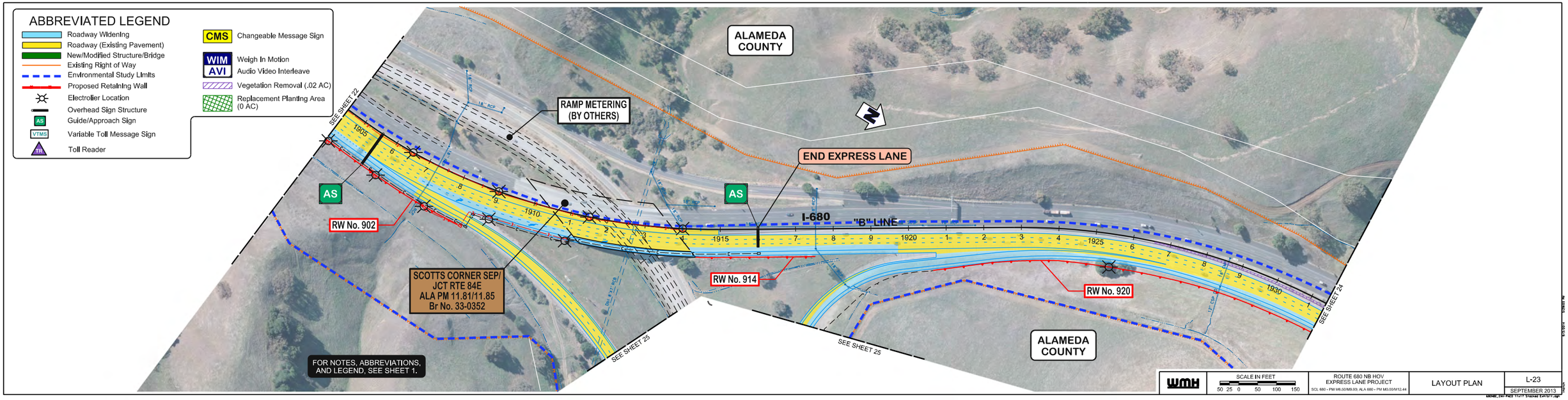

ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
AS Guide/Approach Sign
VTMS Variable Toll Message Sign
TR Toll Reader
CMS Changeable Message Sign
WIM AVI Weigh In Motion Audio Video Interleave
Vegetation Removal (1.34 AC)
Replacement Planting Area (0 AC)
ALAMEDA COUNTY
SUNOL VALLEY GOLF CLUB
ALAMEDA CK
ALA PM 10.15
Br No. 33-0047
ALAMEDA CREEK
DIRT ROAD (CONTRACTOR ACCESS TO CREEK)
I-680
"B" LINE
TR
VTMS
AS
ATHENOUR Wy
SHERIDAN CK
RW No. 839
RW No. 856
SEE SHEET 20
SEE SHEET 22
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-21
SEPTEMBER 2013

ABBREVIATED LEGEND

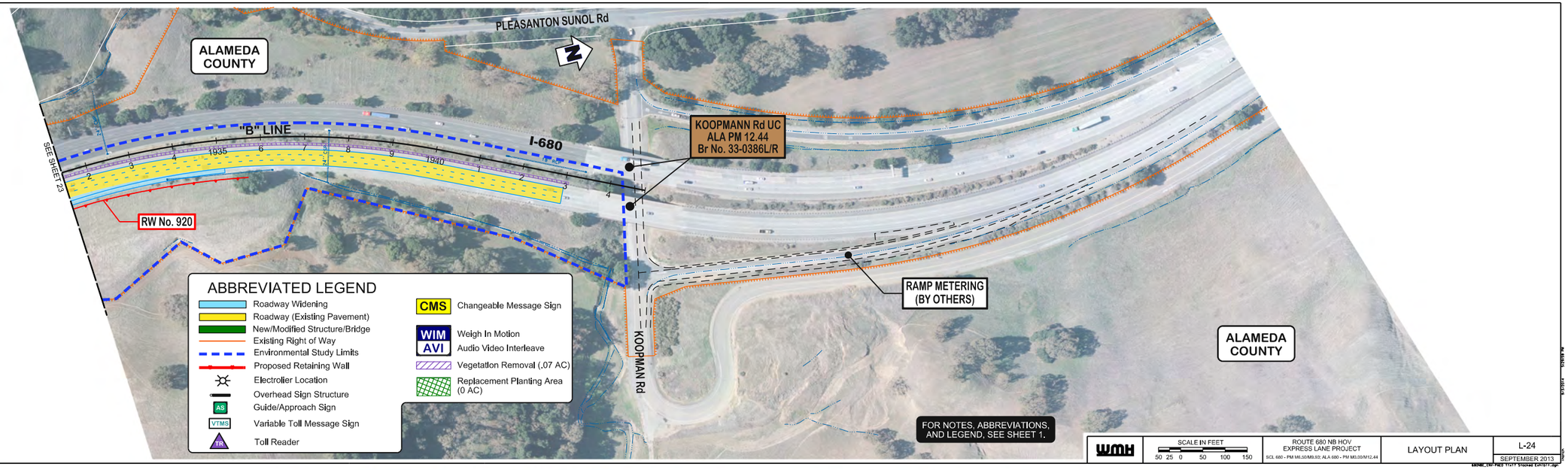
- Roadway Widening
- Roadway (Existing Pavement)
- New/Modified Structure/Bridge
- Existing Right of Way
- Environmental Study Limits
- Proposed Retaining Wall
- Electrolier Location
- Overhead Sign Structure
- AS — Guide/Approach Sign
- VTMS — Variable Toll Message Sign
- TR — Toll Reader
- CMS — Changeable Message Sign
- WIM / AVI — Weigh In Motion / Audio Video Interleave
- Vegetation Removal (.99 AC)
- Replacement Planting Area (.25 AC)

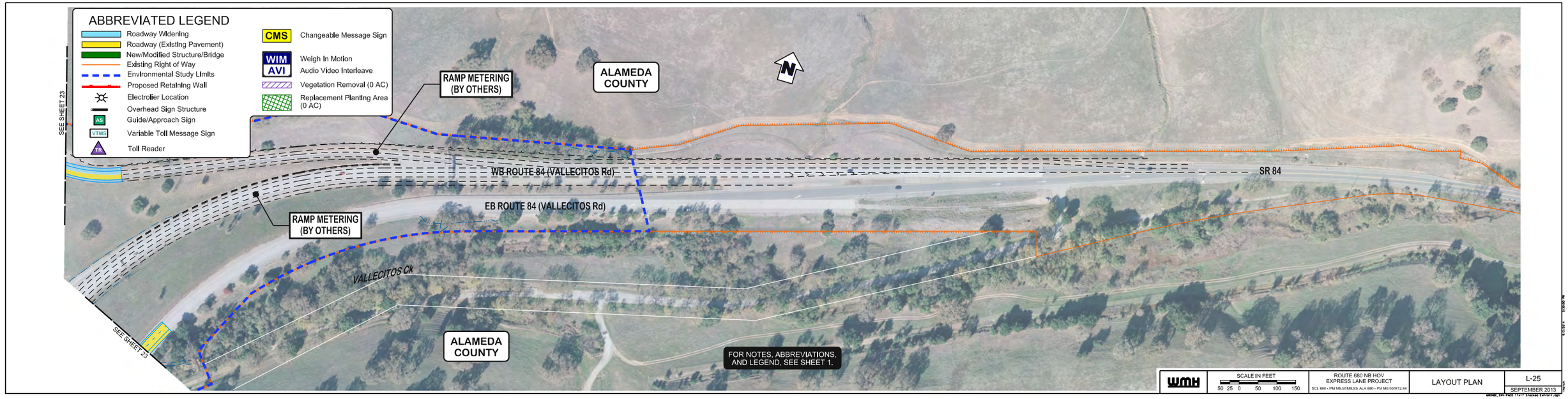


WMH | SCALE IN FEET 50 25 0 50 100 150 | ROUTE 680 NB HOV EXPRESS LANE PROJECT | SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44 | LAYOUT PLAN | L-22 | SEPTEMBER 2013



WMH | SCALE IN FEET 50 25 0 50 100 150 | ROUTE 680 NB HOV EXPRESS LANE PROJECT | SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44 | LAYOUT PLAN | L-23 | SEPTEMBER 2013


PLEASANTON SUNOL Rd
ALAMEDA COUNTY
"B" LINE
I-680
KOOPMANN Rd UC
ALA PM 12.44
Br No. 33-0386L/R
SEE SHEET 23
RW No. 920
RAMP METERING (BY OTHERS)
KOOPMAN Rd
ALAMEDA COUNTY
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
Guide/Approach Sign
Variable Toll Message Sign
Toll Reader
CMS Changeable Message Sign
WIM Weigh In Motion
AVI Audio Video Interleave
Vegetation Removal (.07 AC)
Replacement Planting Area (0 AC)
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-24
SEPTEMBER 2013


ABBREVIATED LEGEND
Roadway Widening
Roadway (Existing Pavement)
New/Modified Structure/Bridge
Existing Right of Way
Environmental Study Limits
Proposed Retaining Wall
Electrolier Location
Overhead Sign Structure
Guide/Approach Sign
Variable Toll Message Sign
Toll Reader
CMS Changeable Message Sign
WIM Weigh In Motion
AVI Audio Video Interleave
Vegetation Removal (0 AC)
Replacement Planting Area (0 AC)
SEE SHEET 23
RAMP METERING (BY OTHERS)
ALAMEDA COUNTY
WB ROUTE 84 (VALLECITOS Rd)
SR 84
EB ROUTE 84 (VALLECITOS Rd)
RAMP METERING (BY OTHERS)
VALLECITOS Ck
SEE SHEET 23
ALAMEDA COUNTY
FOR NOTES, ABBREVIATIONS, AND LEGEND, SEE SHEET 1.
WMH
SCALE IN FEET
50 25 0 50 100 150
ROUTE 680 NB HOV EXPRESS LANE PROJECT
SCL 680 - PM M6.50/M9.93; ALA 680 - PM M0.00/M12.44
LAYOUT PLAN
L-25
SEPTEMBER 2013