

# L4: Alternative 3 Reasonableness Analysis Summary and Recommended Soundwall Locations

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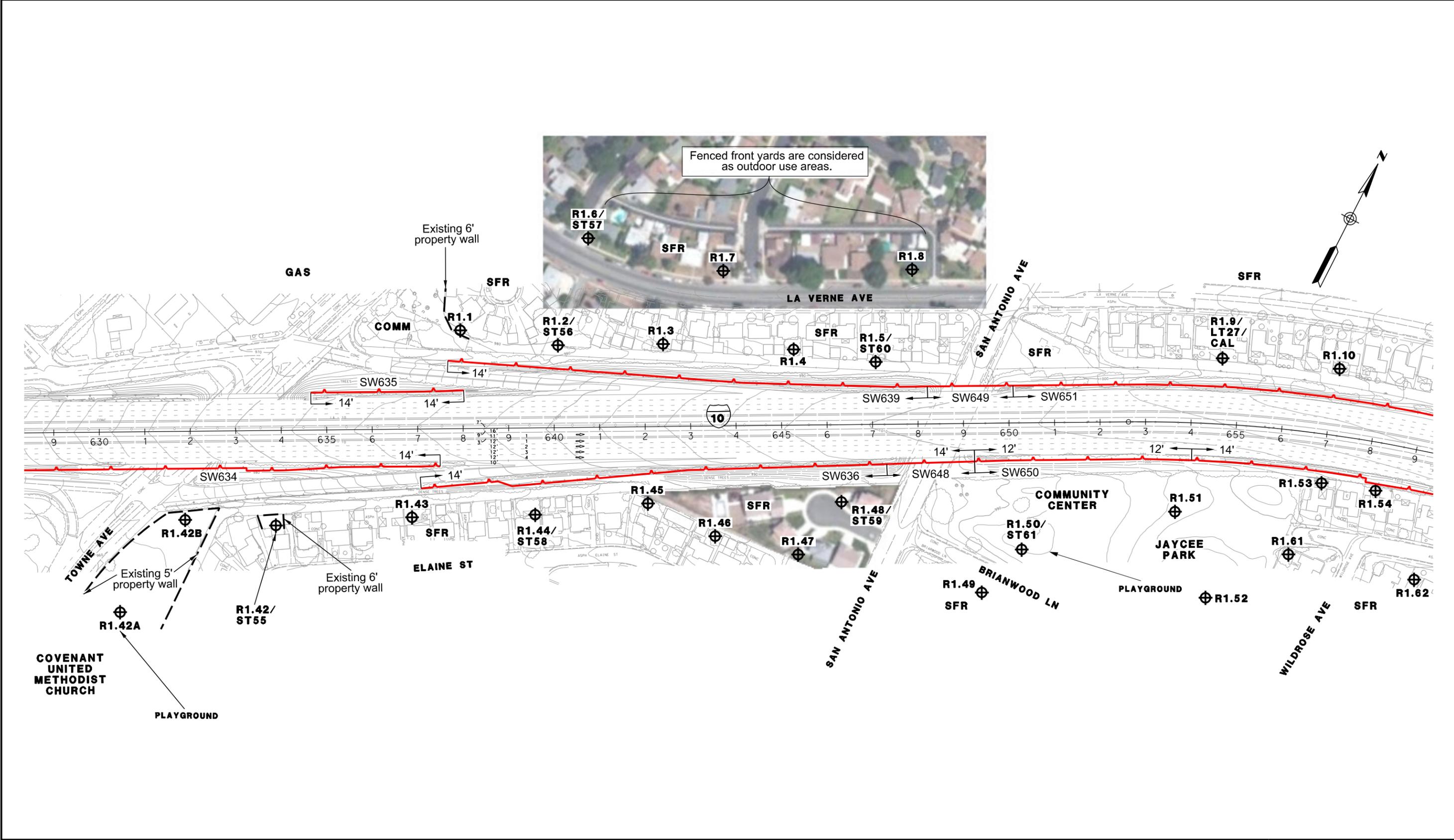


**TABLE 2 – Noise Abatement Information (Alternative 3)**

<b>Barrier</b>	<b>Height (feet)</b>	<b>Acoustically Feasible?</b>	<b>Number of Benefited Residences</b>	<b>Total Reasonable Allowance</b>	<b>Masonry Estimated Construction Cost</b>	<b>Cost Less than Allowance</b>	<b>Preliminary Noise Abatement Decision</b>
S699	16- 18- 20	Yes	16	\$1,136,000	\$406,100	Yes	Reasonable
SW2	14	No	N/A	N/A	N/A	N/A	Replace in-kind
SW6	14	No	N/A	N/A	N/A	N/A	Replace in-kind
SW10	14	No	N/A	N/A	N/A	N/A	Replace in-kind
SW29	16	No	N/A	N/A	N/A	N/A	Replace in-kind
SW30	12	No	N/A	N/A	N/A	N/A	Replace in-kind
SW66	14	No	N/A	N/A	N/A	N/A	Replace in-kind
SW68	10	No	N/A	N/A	N/A	N/A	Replace in-kind
SW94	8- 14	No	N/A	N/A	N/A	N/A	Replace in-kind
S1117	12	Yes	4	\$284,000	\$101,200	Yes	Reasonable
S1132	14	Yes	2	\$142,000	\$132,600	Yes	Reasonable
S1190	12	Yes	20	\$1,420,000	\$326,800	Yes	Reasonable
SW230	14- 16	No	N/A	N/A	N/A	N/A	Replace in-kind
S1244	14	N/A	0	N/A	N/A	N/A	Reasonable
SW246	14	No	N/A	N/A	N/A	N/A	Replace in-kind
SW231	14	No	N/A	N/A	N/A	N/A	Replace in-kind
SW245	14	No	N/A	N/A	N/A	N/A	Replace in-kind
S1262	14	Yes	1	\$71,000	\$67,400	Yes	Reasonable
S1266	12	Yes	3	\$213,000	\$90,940	Yes	Reasonable
SW259	14	No	N/A	N/A	N/A	N/A	Replace in-kind
SW275	14	No	N/A	N/A	N/A	N/A	Replace in-kind
S1285	14	Yes	25	\$1,775,000	\$91,830	Yes	Reasonable
S21	12	Yes	2	\$142,000	\$167,400	No	Not Reasonable
S1276	10	Yes	3	\$213,000	\$24,990	Yes	Reasonable
SW278	14- 16	No	N/A	N/A	N/A	N/A	Replace in-kind
S1306	8- 10- 12- 14	Yes	84	\$5,964,000	\$638,100	Yes	Reasonable
SW296	14	No	N/A	N/A	N/A	N/A	Replace in-kind
SW334	14	No	N/A	N/A	N/A	N/A	Replace in-kind
SW697	14	No	N/A	N/A	N/A	N/A	Replace in-kind
S1819	16- 18	Yes	33	\$2,343,000	\$999,100	Yes	Reasonable
S1833	14	Yes	4	\$284,000	\$308,000	Yes*	Reasonable*
S1877	14- 16	Yes	72	\$5,112,000	\$635,800	Yes	Reasonable
S1907	16	Yes	63	\$4,473,000	\$1,707,000	Yes	Reasonable
S1969	12	Yes	2	\$142,000	\$132,400	Yes	Reasonable
S2033	20	Yes	4	\$284,000	\$268,900	Yes	Reasonable
S2079	18	Yes	4	\$284,000	\$525,500	No	Not Reasonable
S2145	14- 16	Yes	43	\$3,053,000	\$772,800	Yes	Reasonable
SW5	8- 10- 12	No	N/A	N/A	N/A	N/A	Replace in-kind
S2238	14- 16	Yes	46	\$3,266,000	\$601,700	Yes	Reasonable
S2382	12	Yes	1	\$71,000	\$466,000	No	Not Reasonable
S2384	14						
S2434A	14- 16	Yes	40	\$2,840,000	\$1,010,200	Yes	Reasonable

<b>Barrier</b>	<b>Height (feet)</b>	<b>Acoustically Feasible?</b>	<b>Number of Benefited Residences</b>	<b>Total Reasonable Allowance</b>	<b>Masonry Estimated Construction Cost</b>	<b>Cost Less than Allowance</b>	<b>Preliminary Noise Abatement Decision</b>
S2438	14						
S2434B	12- 14	Yes	38	\$2,698,000	\$759,800	Yes	Reasonable
S2438	12						
S2435	14	Yes	15	\$1,065,000	\$331,900	Yes	Reasonable
S2437	14						
S2476	14	Yes	76	\$5,396,000	\$437,200	Yes	Reasonable
S2619	10- 12- 14	Yes	17	\$1,207,000	\$1,284,000	Yes*	Reasonable*
S2638A	12-	Yes	20	\$1,420,000	\$2,013,900	No	Not Reasonable
S2654A	10- 12						
S2638B	12	Yes	11	\$781,000	\$808,800	Yes*	Reasonable*
S2654B	12						
S2730	12- 14- 16- 18- 20	Yes	1	\$71,000	\$386,100	No	Not Reasonable
S2737	16- 18- 20- 22- 24	Yes	5	\$355,000	\$1,118,000	No	Not Reasonable
S2765	14	Yes	16	\$1,136,000	\$557,900	Yes	Reasonable

\*Although estimated construction cost is greater than total reasonable allowance, the difference is within 10% of the allowance; therefore, the cost is considered less than the allowance.



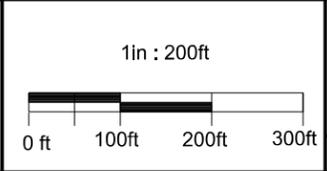
Fenced front yards are considered as outdoor use areas.

**LEGEND**  
 ⊕RXX - RECEIVER SITE  
 ⊕CAL - CALIBRATION SITE  
 ⊕LT - LONG-TERM MEASUREMENT  
 ⊕ST - SHORT-TERM MEASUREMENT

**SFR OR S** - SINGLE FAMILY RESIDENCE  
**MFR OR M** - MULTI-FAMILY RESIDENCE  
**COMM OR C** - COMMERCIAL/NO OUTDOOR USE AREA  
 b - BENEFITED RESIDENCE  
 ⊕HXX - IN/OUTDOOR MEASUREMENT

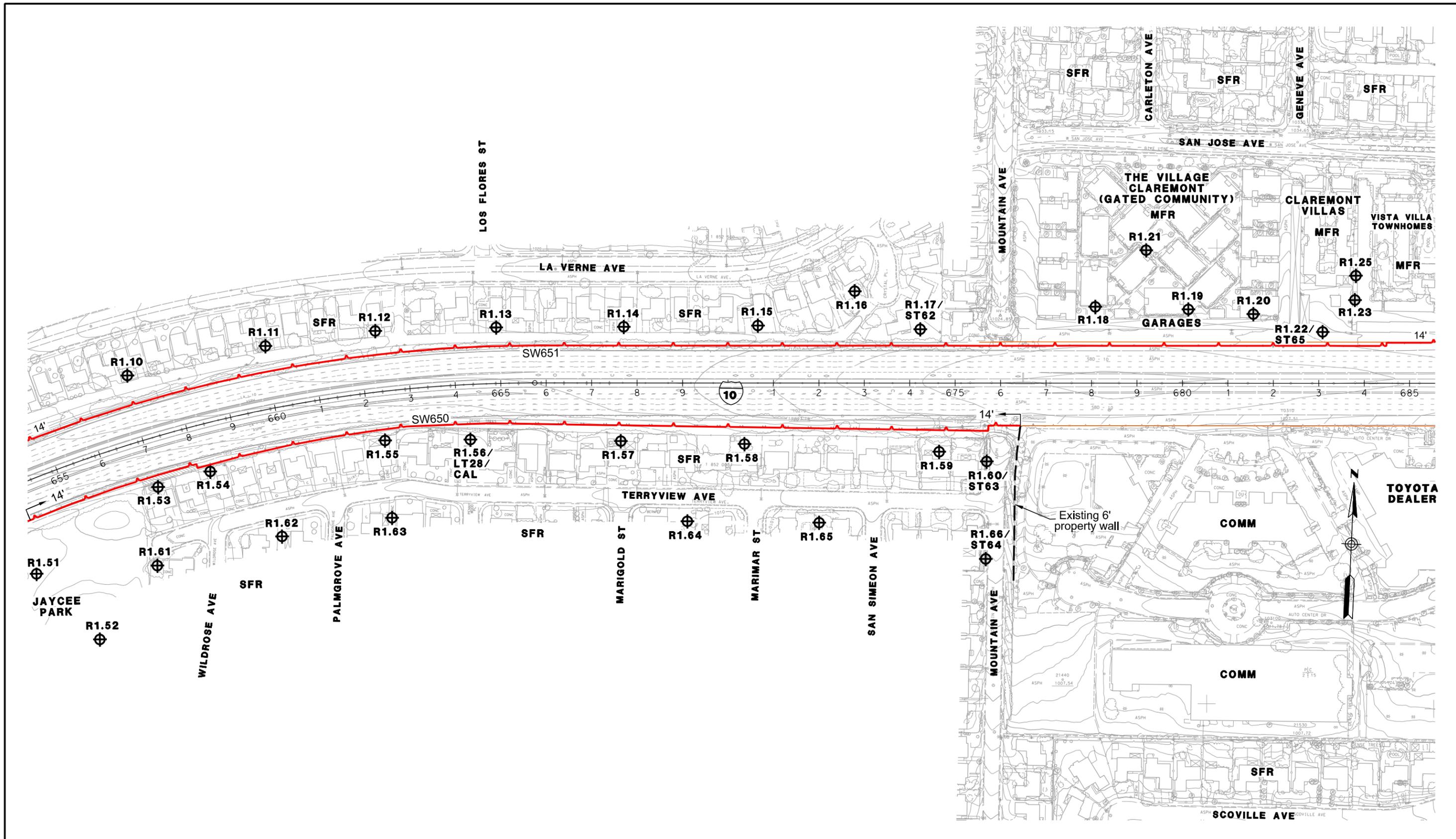
--- - EXISTING PROPERTY WALL  
 --- - EXISTING SOUNDWALL  
 --- - PROPOSED SOUNDWALL  
 --- - REPLACEMENT IN KIND SOUNDWALL

▲▲ - RETAINING WALL  
 ◆◆ - SAFETY BARRIER  
 ▲▲ - DRAINAGE RETAINING WALL  
 ●● - NON-REASONABLE SOUNDWALL



**I-10 CORRIDOR ALTERNATIVE 3  
 NADR RECOMMENDED BARRIER  
 HEIGHTS & LOCATIONS**  
 JULY 1, 2015 **FIGURE 102**



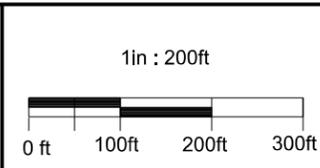


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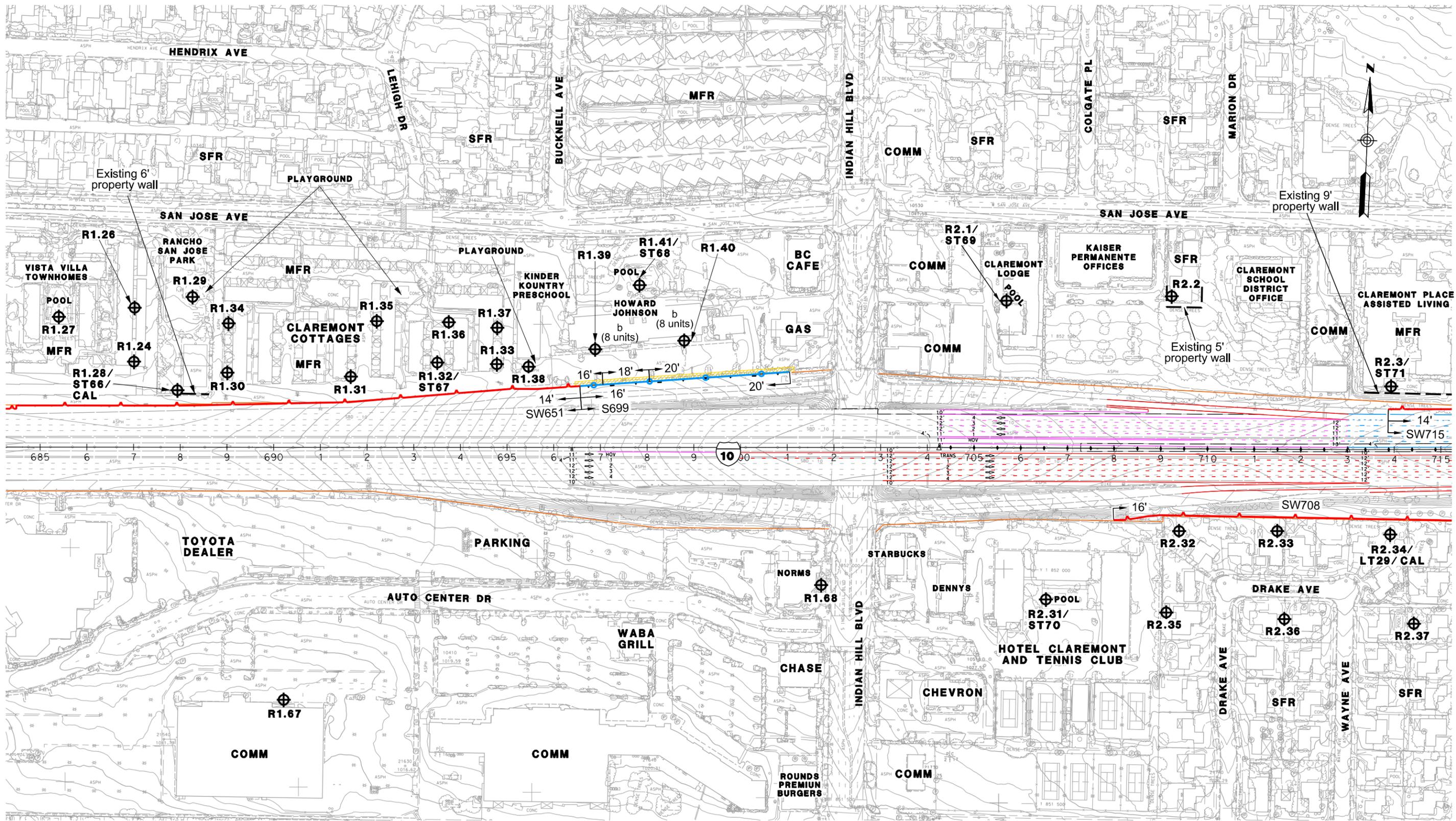
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**I-10 CORRIDOR ALTERNATIVE 3  
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 JULY 1, 2015 **FIGURE 103**





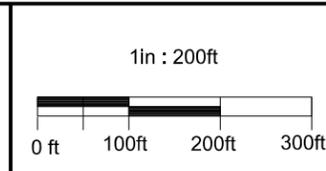
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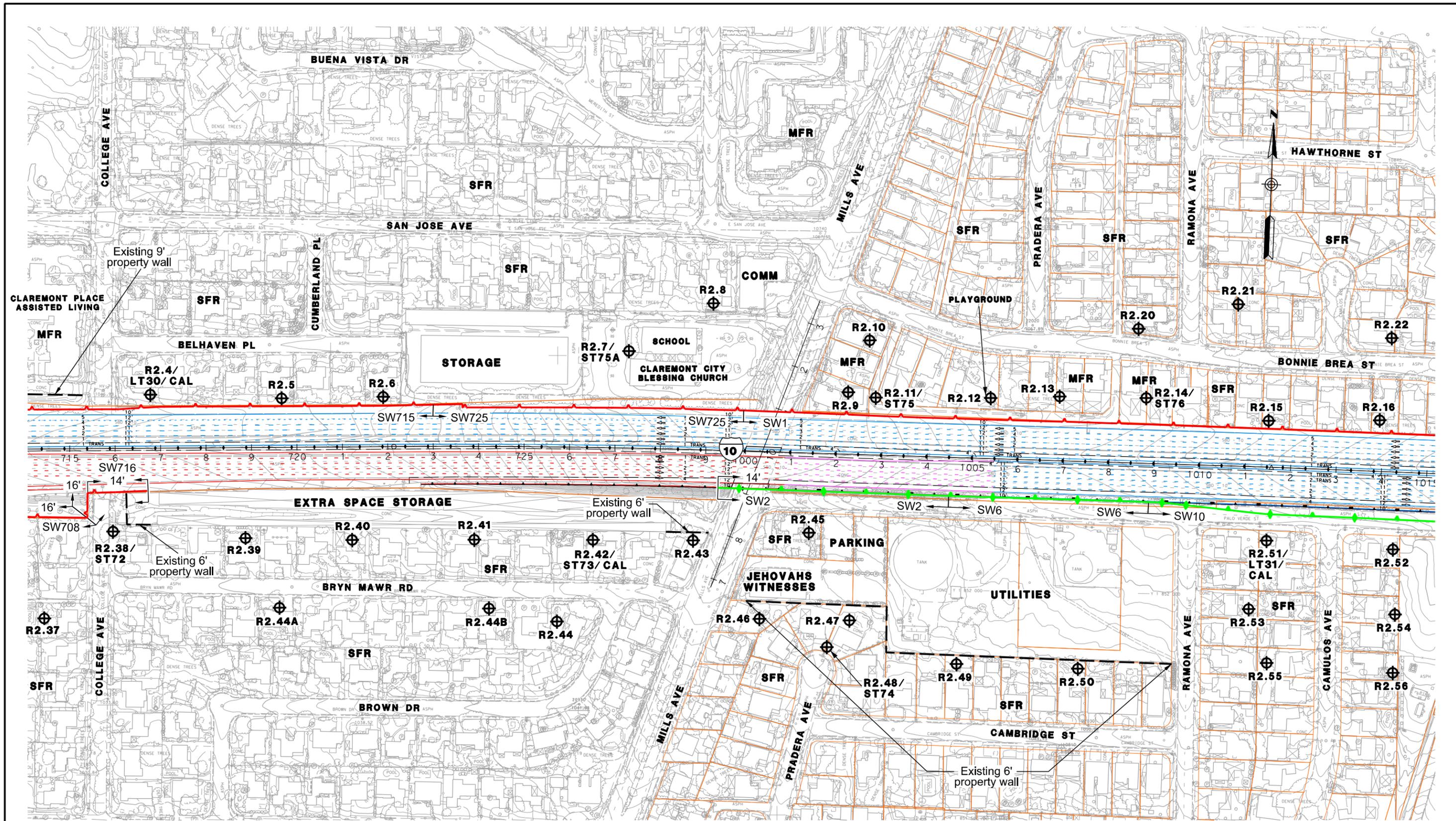


**I-10 CORRIDOR ALTERNATIVE 3  
NADR RECOMMENDED BARRIER  
HEIGHTS & LOCATIONS**

JULY 1, 2015

**FIGURE 104**



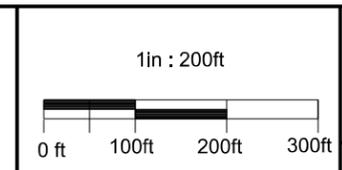


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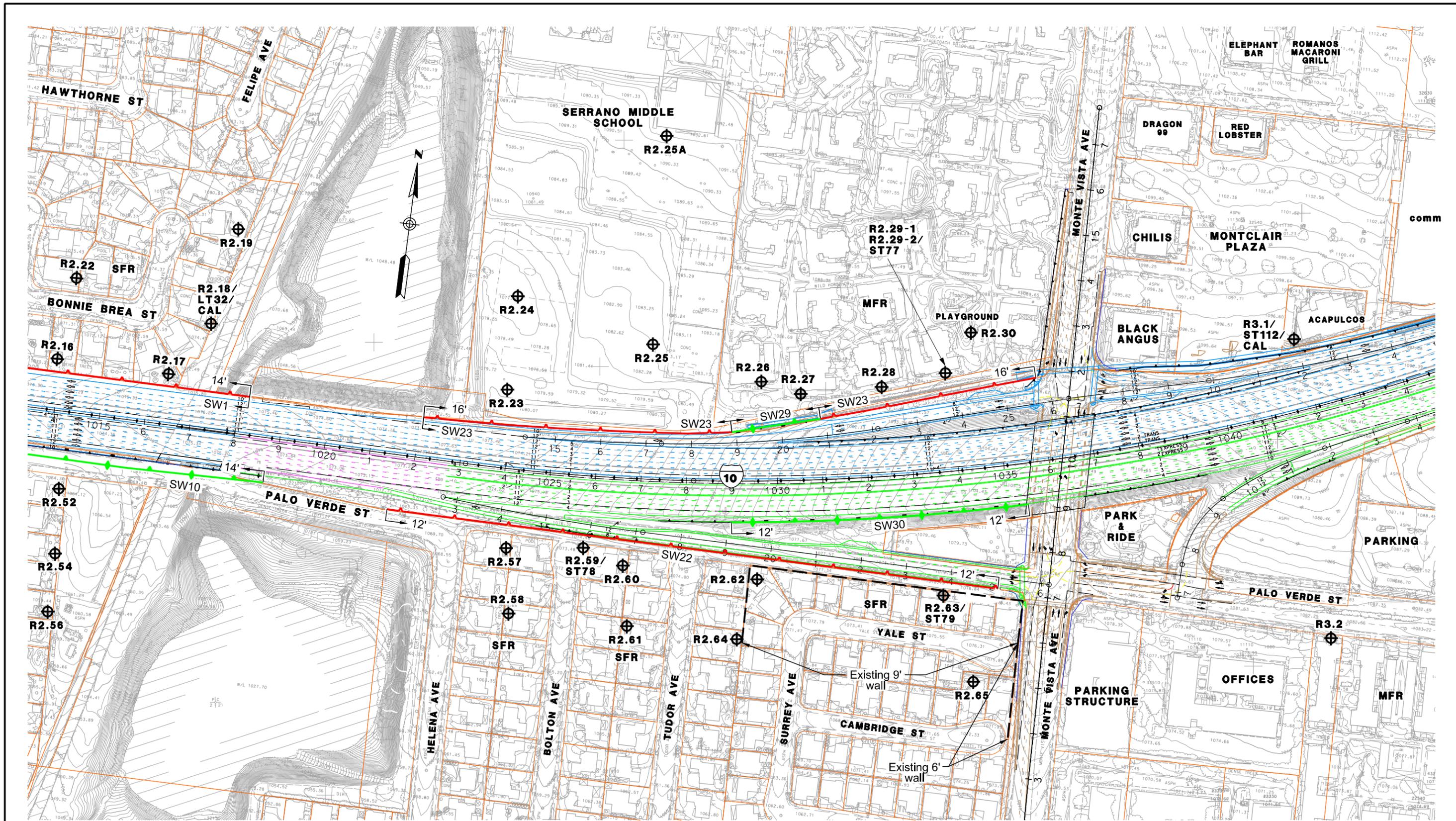
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**I-10 CORRIDOR ALTERNATIVE 3  
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 JULY 1, 2015 **FIGURE 105**





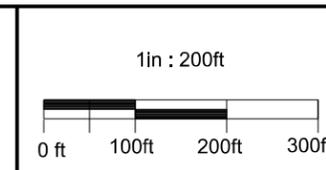
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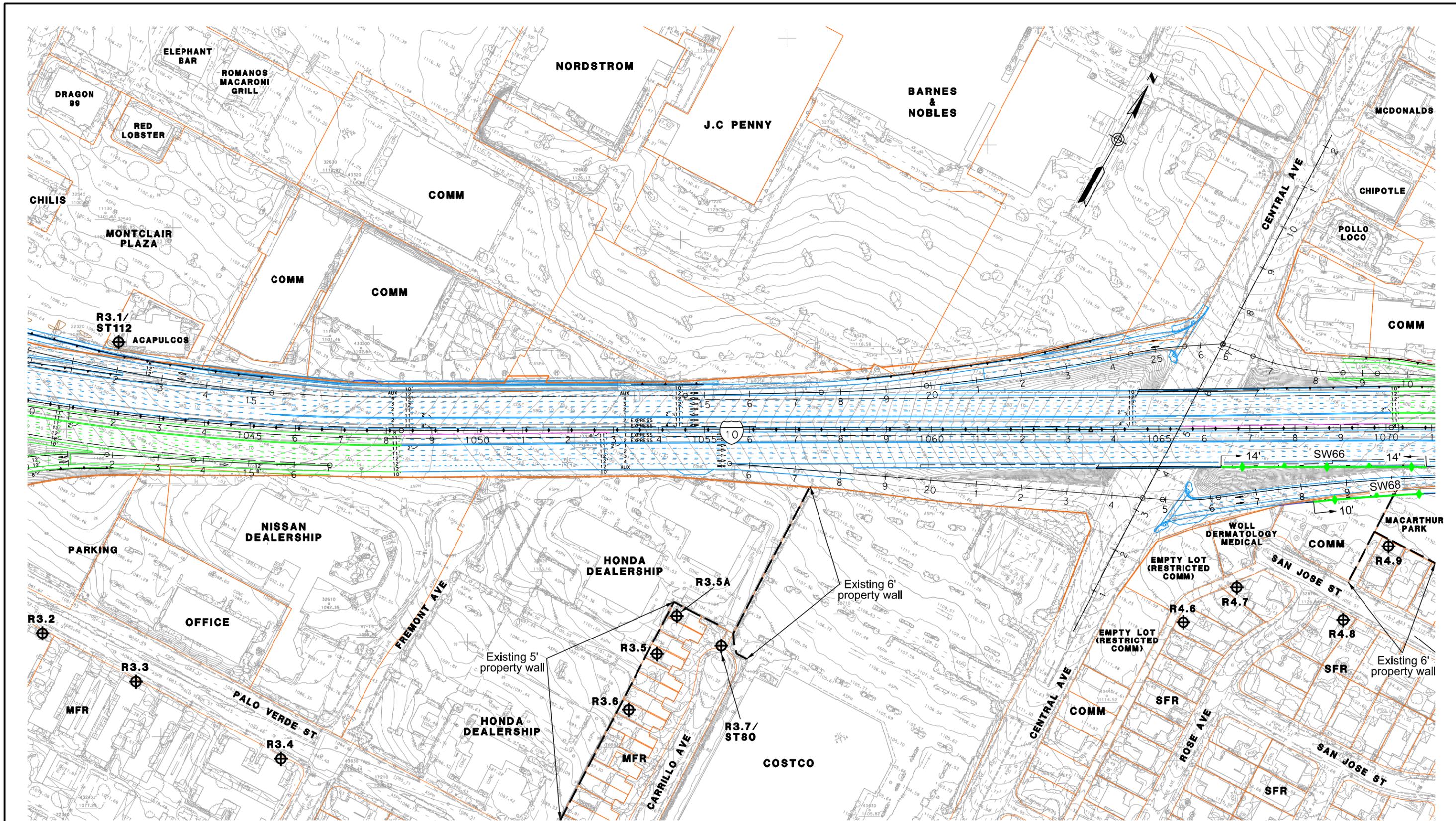


**I-10 CORRIDOR ALTERNATIVE 3  
NADR RECOMMENDED BARRIER  
HEIGHTS & LOCATIONS**

JULY 1, 2015

**FIGURE 106**





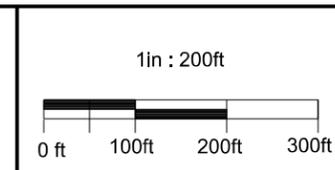
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**I-10 CORRIDOR ALTERNATIVE 3  
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JULY 1, 2015

**FIGURE 107**





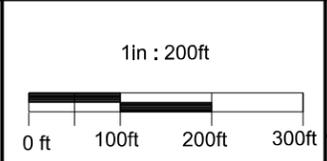
These properties will be demolished as part of the project

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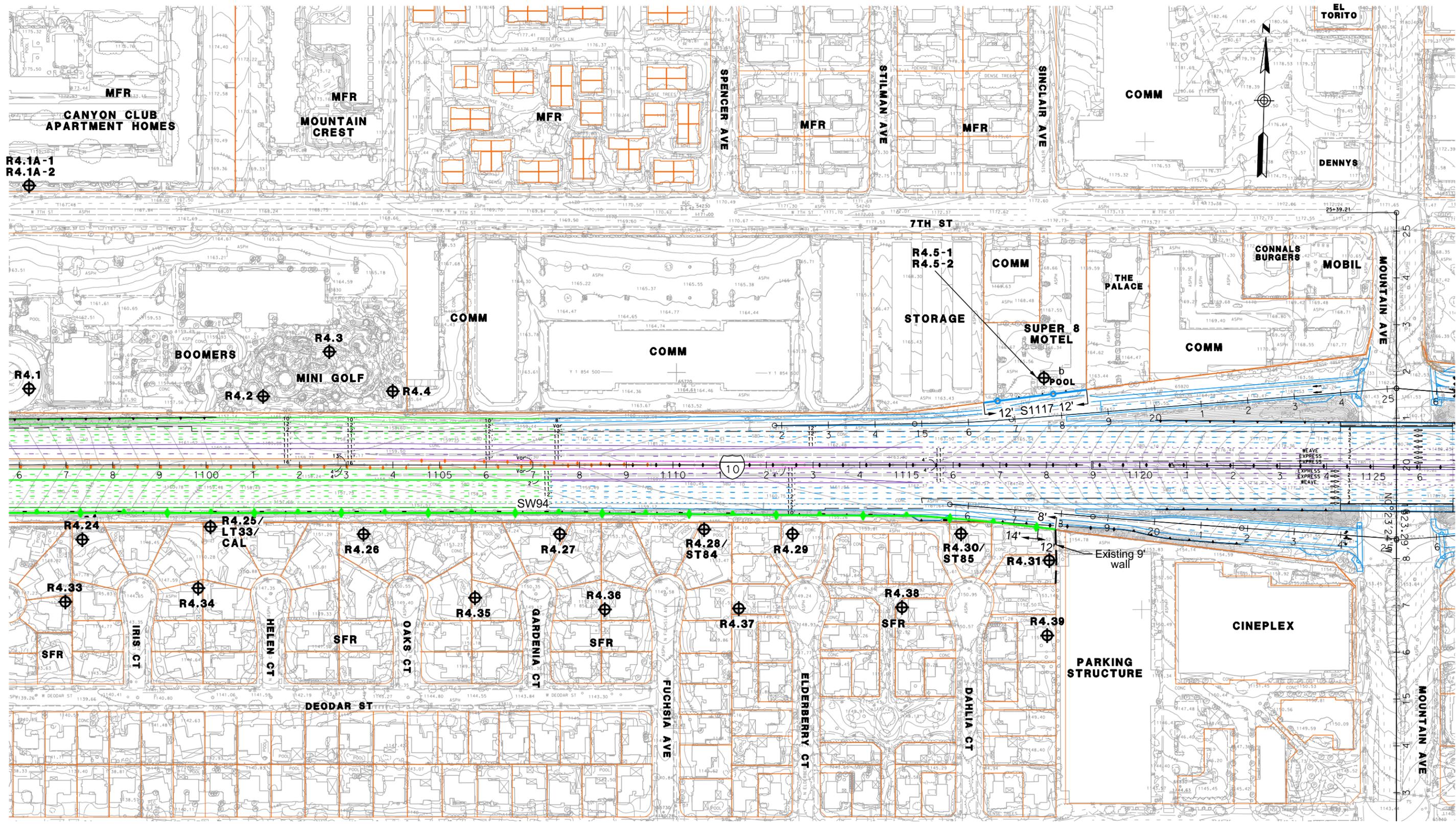


I-10 CORRIDOR ALTERNATIVE 3  
NADR RECOMMENDED BARRIER  
HEIGHTS & LOCATIONS

JULY 1, 2015

**FIGURE 108**



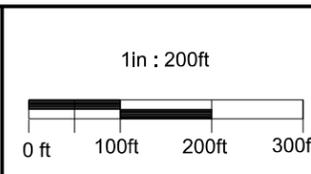


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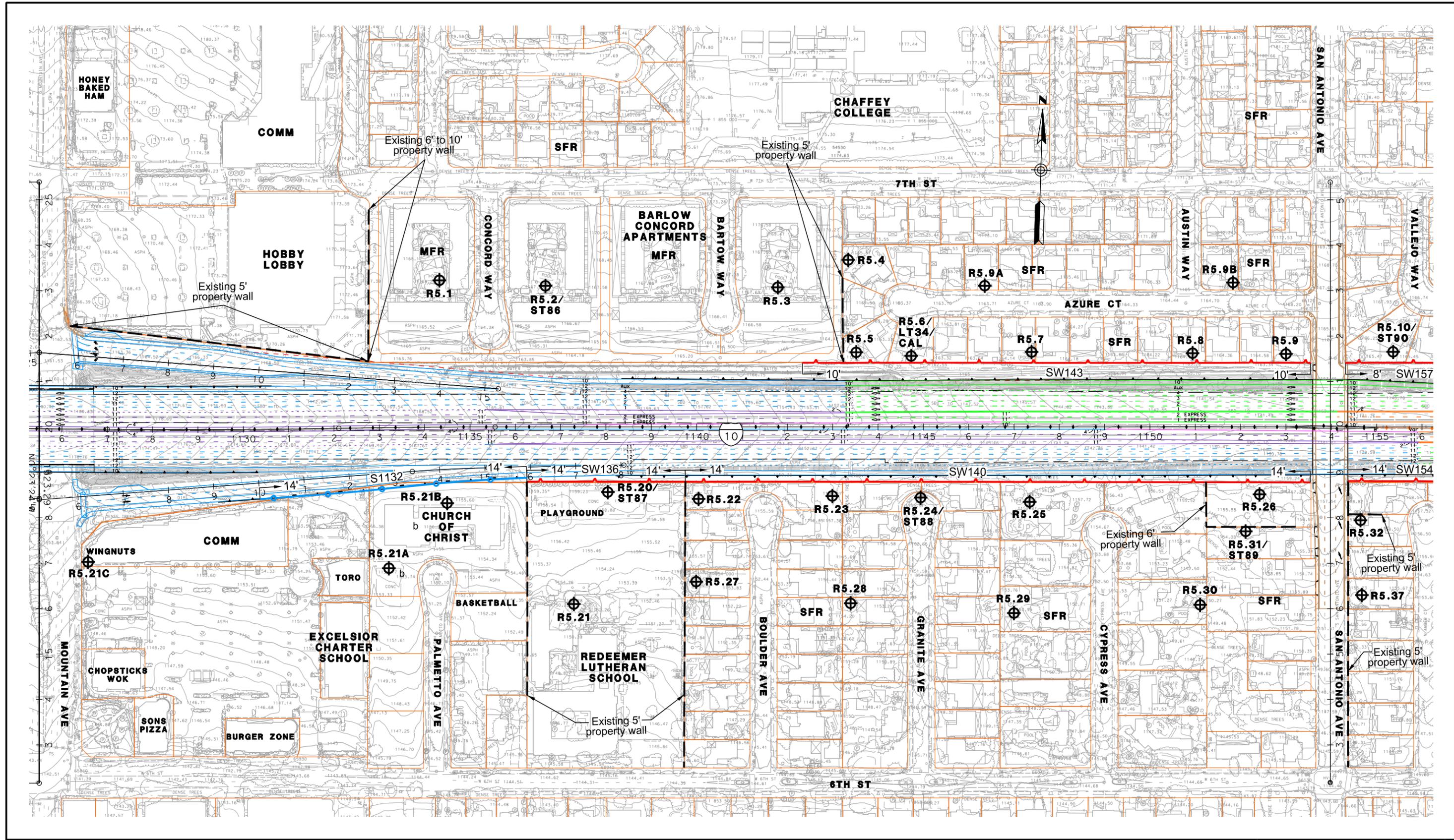


**I-10 CORRIDOR ALTERNATIVE 3  
NADR RECOMMENDED BARRIER  
HEIGHTS & LOCATIONS**

JULY 1, 2015

**FIGURE 109**





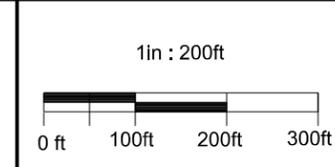
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**I-10 CORRIDOR ALTERNATIVE 3  
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HEIGHTS & LOCATIONS**

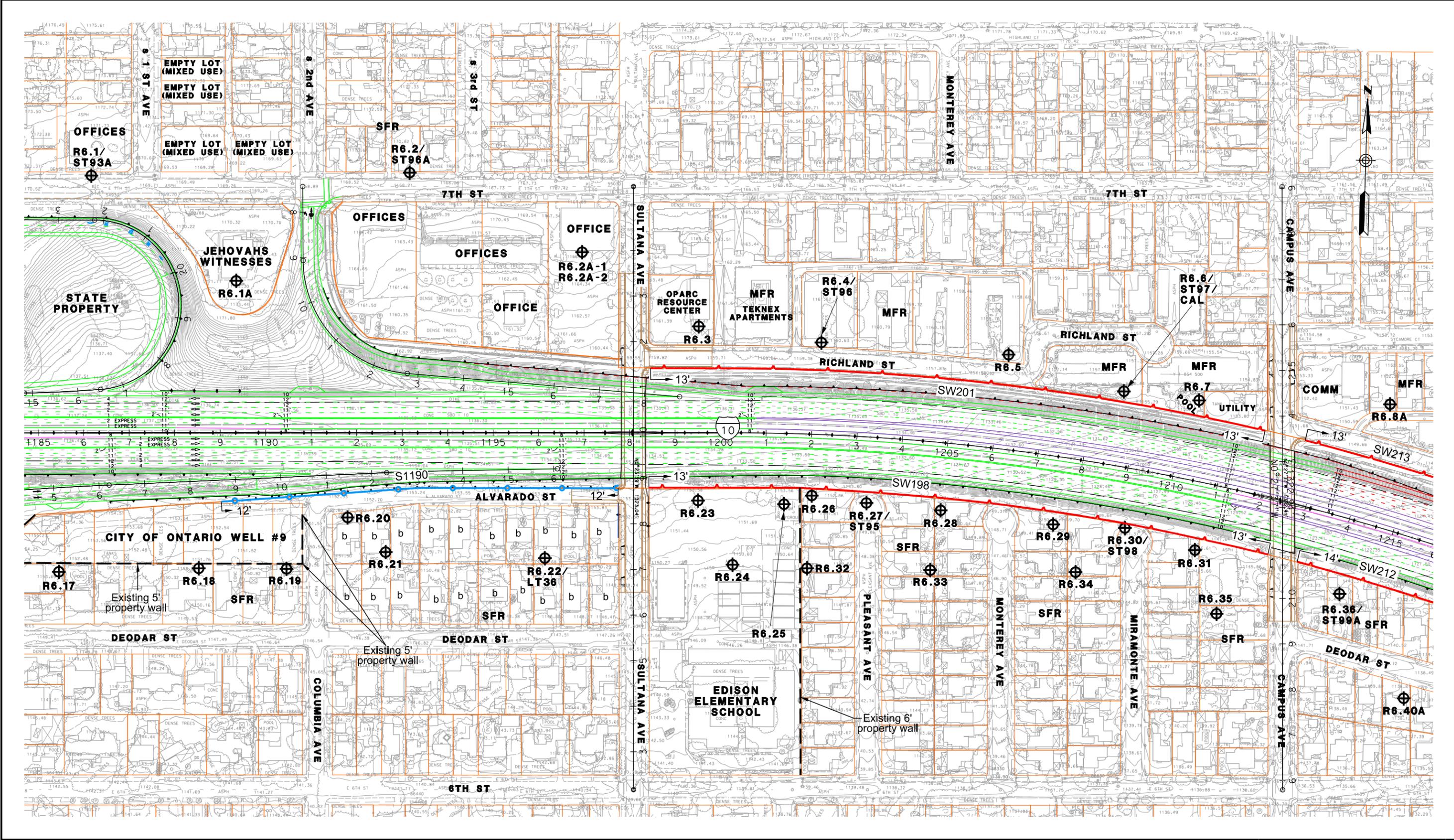
JULY 1, 2015

**FIGURE 110**









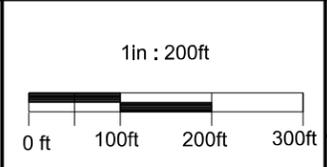
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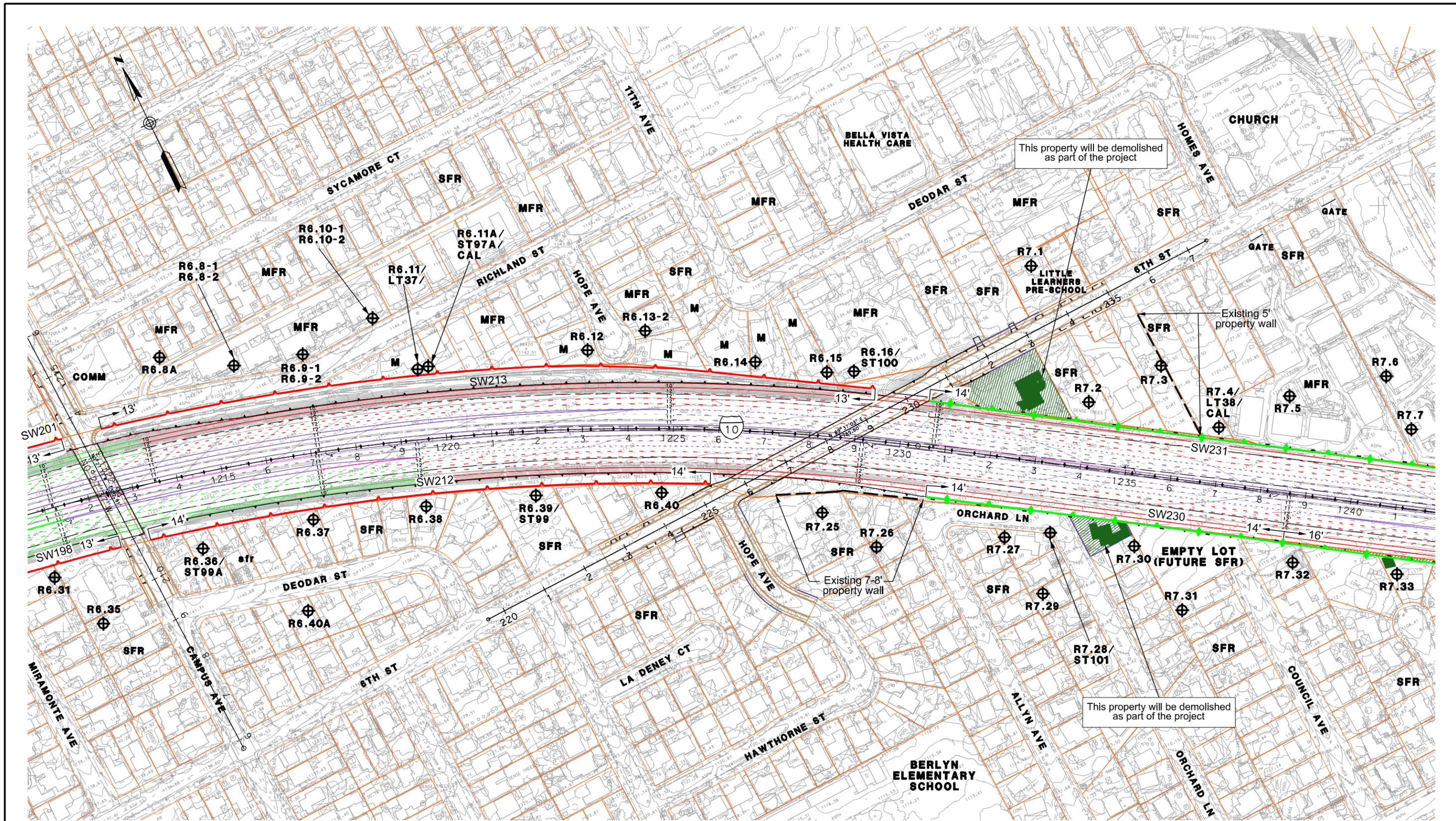


**I-10 CORRIDOR ALTERNATIVE 3  
NADR RECOMMENDED BARRIER  
HEIGHTS & LOCATIONS**

JULY 1, 2015

**FIGURE 112**





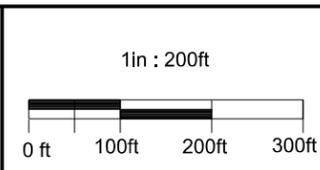
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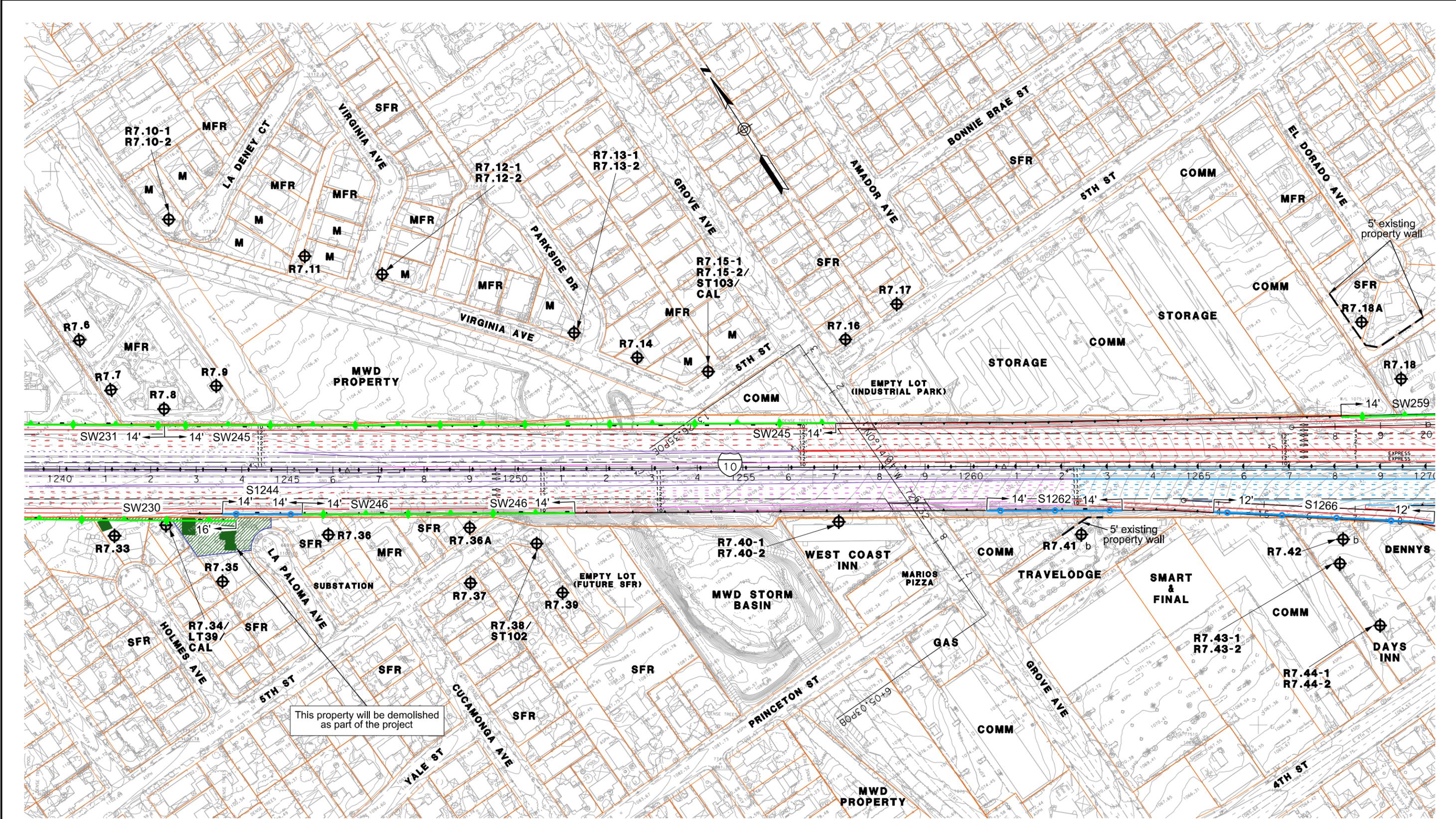


**I-10 CORRIDOR ALTERNATIVE 3  
NADR RECOMMENDED BARRIER  
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JULY 1, 2015

**FIGURE 113**





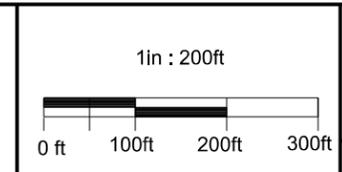
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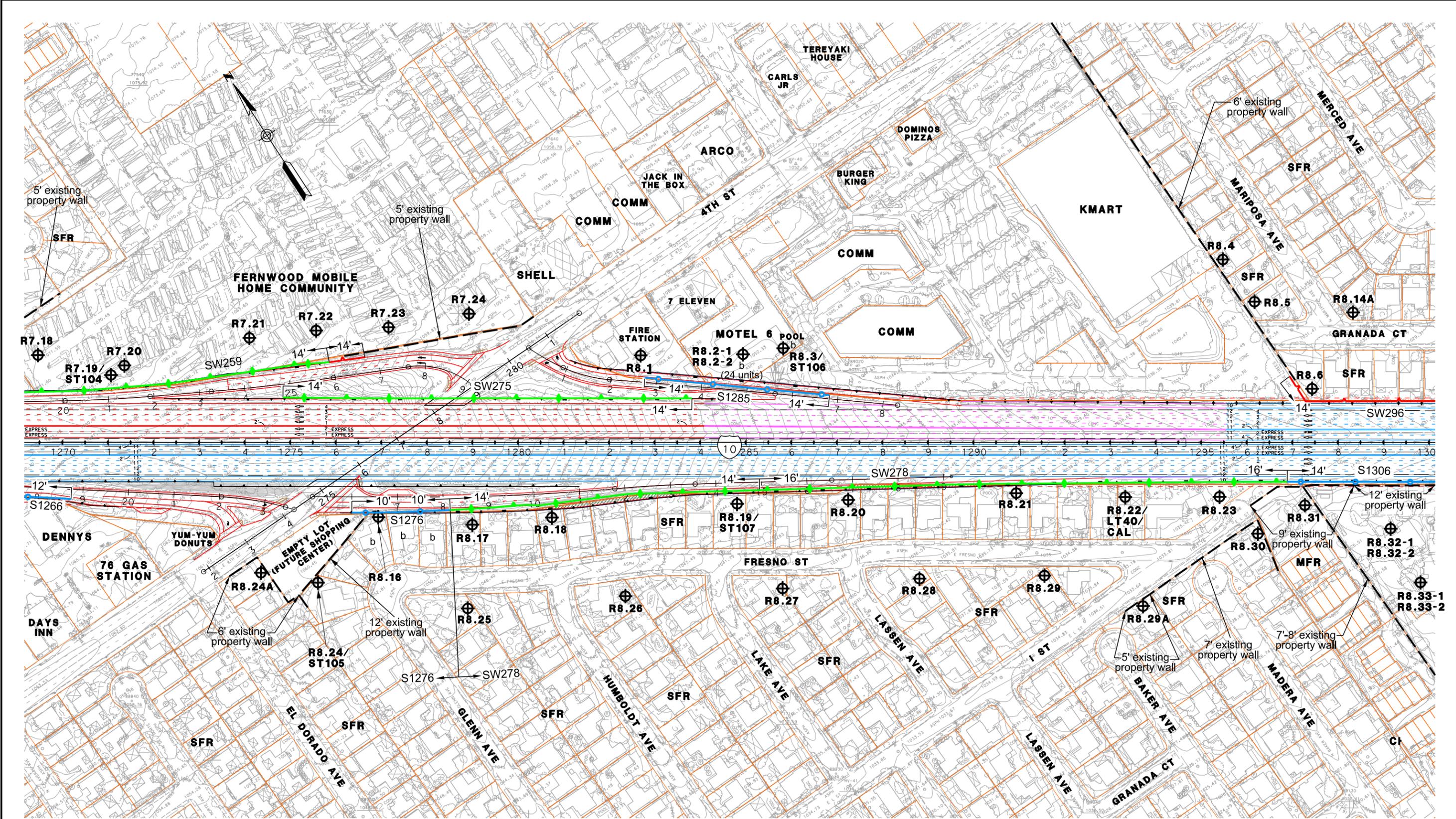


**I-10 CORRIDOR ALTERNATIVE 3  
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JULY 1, 2015

**FIGURE 114**



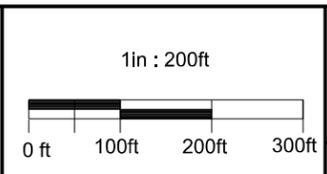


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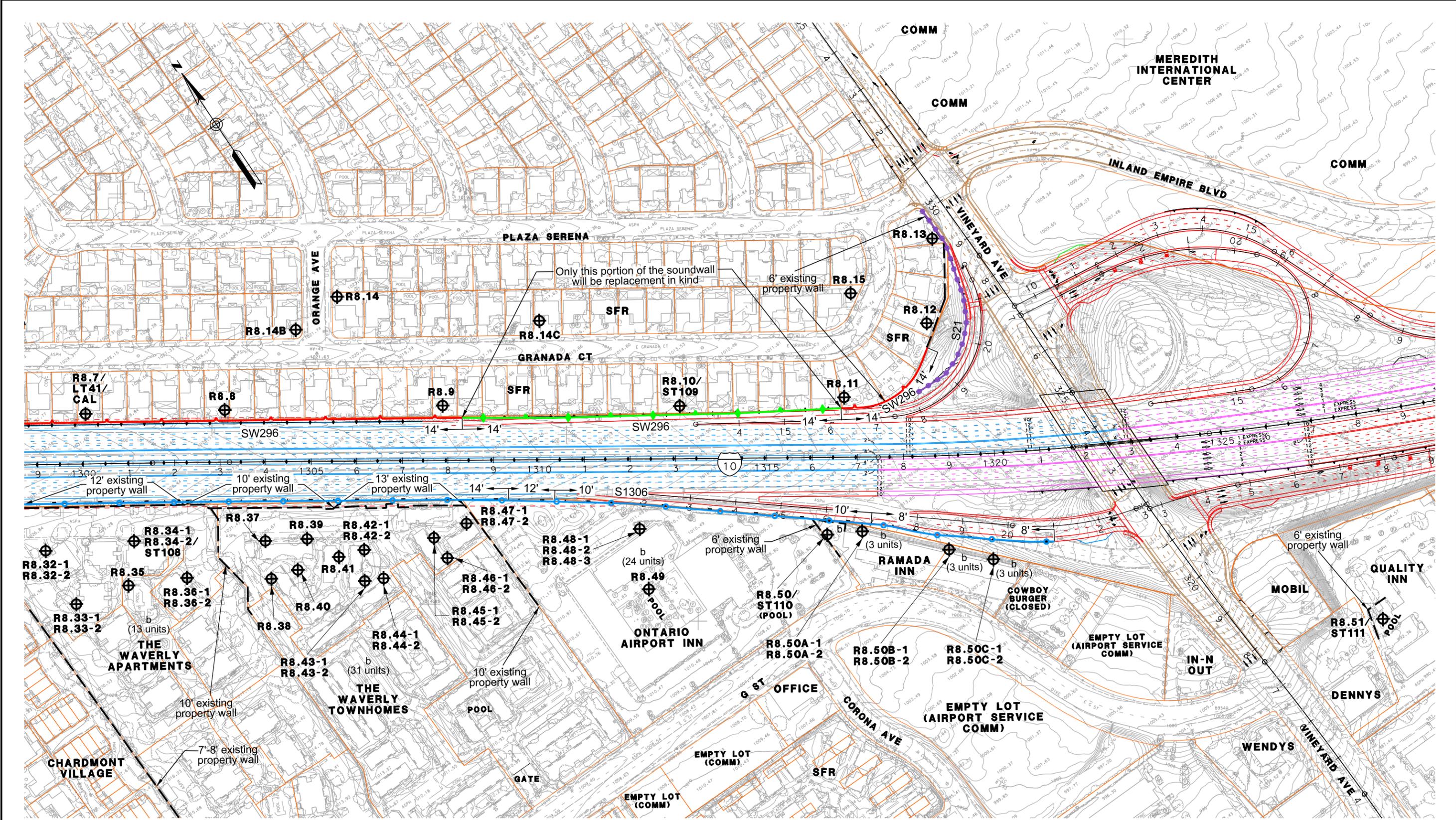


**I-10 CORRIDOR ALTERNATIVE 3  
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JULY 1, 2015

**FIGURE 115**



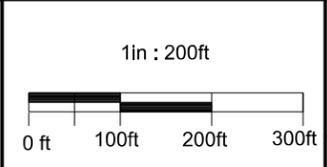


**LEGEND**

- ⊕RXX - RECEIVER SITE
- ⊕CAL - CALIBRATION SITE
- ⊕LT - LONG-TERM MEASUREMENT
- ⊕ST - SHORT-TERM MEASUREMENT

- SFR OR S** - SINGLE FAMILY RESIDENCE
- MFR OR M** - MULTI-FAMILY RESIDENCE
- COMM OR C** - COMMERCIAL/NO OUTDOOR USE AREA
- b - BENEFITED RESIDENCE
- ⊕HXX - IN/OUTDOOR MEASUREMENT

- — — — — - EXISTING PROPERTY WALL
- — — — — - EXISTING SOUNDWALL
- — — — — - PROPOSED SOUNDWALL
- — — — — - REPLACEMENT IN KIND SOUNDWALL
- — — — — - RETAINING WALL
- — — — — - SAFETY BARRIER
- — — — — - DRAINAGE RETAINING WALL
- — — — — - NON-REASONABLE SOUNDWALL

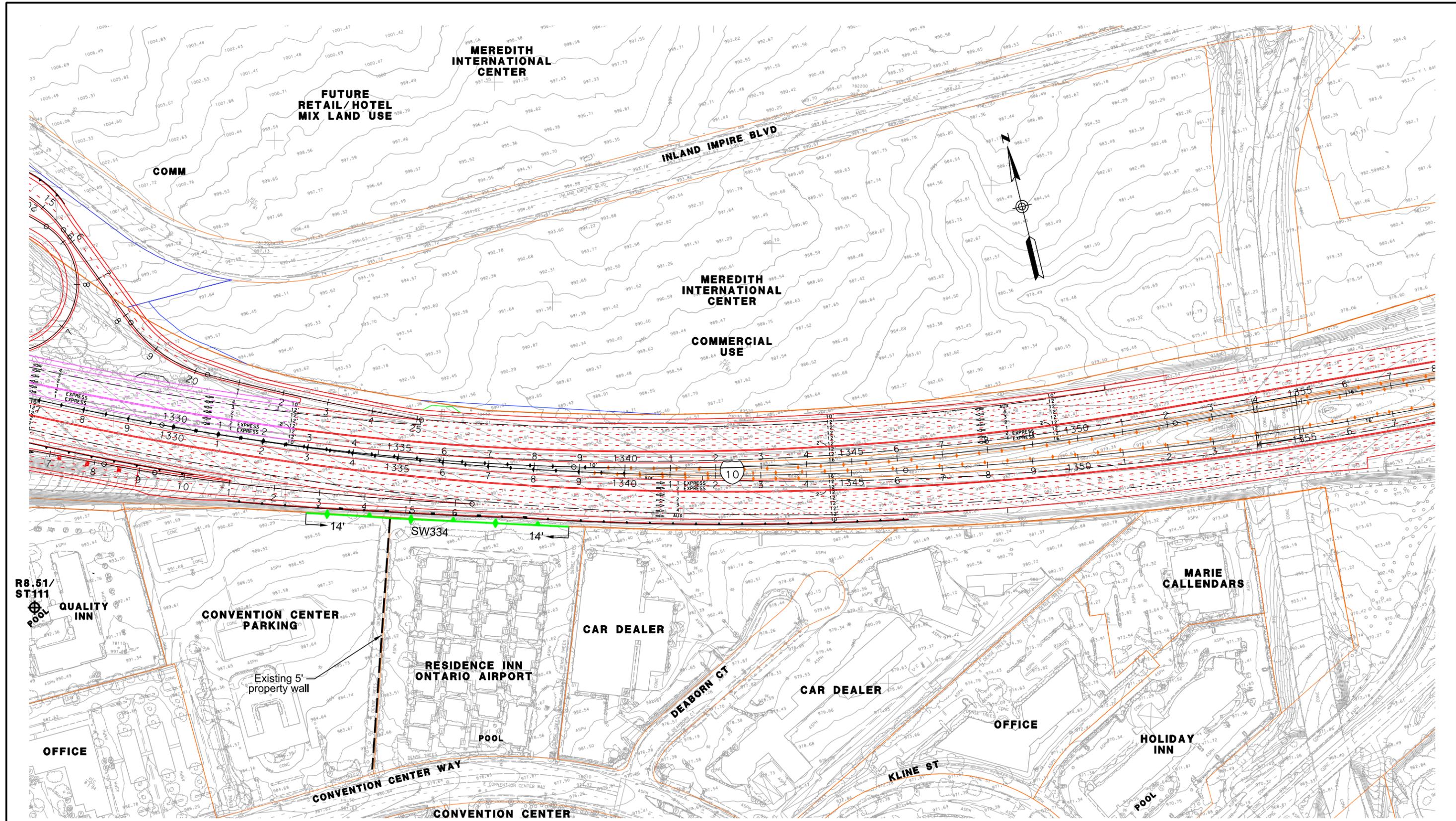


**I-10 CORRIDOR ALTERNATIVE 3  
NADR RECOMMENDED BARRIER  
HEIGHTS & LOCATIONS**

JULY 1, 2015

**FIGURE 116**





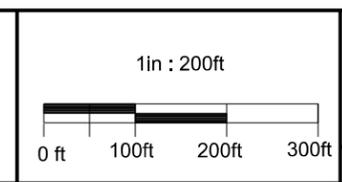
**LEGEND**

- ⊕RXX - RECEIVER SITE
- ⊕CAL - CALIBRATION SITE
- ⊕LT - LONG-TERM MEASUREMENT
- ⊕ST - SHORT-TERM MEASUREMENT

**SFR OR S** - SINGLE FAMILY RESIDENCE  
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**COMM OR C** - COMMERCIAL/NO OUTDOOR USE AREA  
 b - BENEFITED RESIDENCE  
 ⊕HXX - IN/OUTDOOR MEASUREMENT

— — — — — - EXISTING PROPERTY WALL  
 — — — — — - EXISTING SOUNDWALL  
 — — — — — - PROPOSED SOUNDWALL  
 — — — — — - REPLACEMENT IN KIND SOUNDWALL

▲ — ▲ — ▲ — - RETAINING WALL  
 ◆ — ◆ — ◆ — - SAFETY BARRIER  
 ▲ — ▲ — ▲ — - DRAINAGE RETAINING WALL  
 ● — ● — ● — - NON-REASONABLE SOUNDWALL

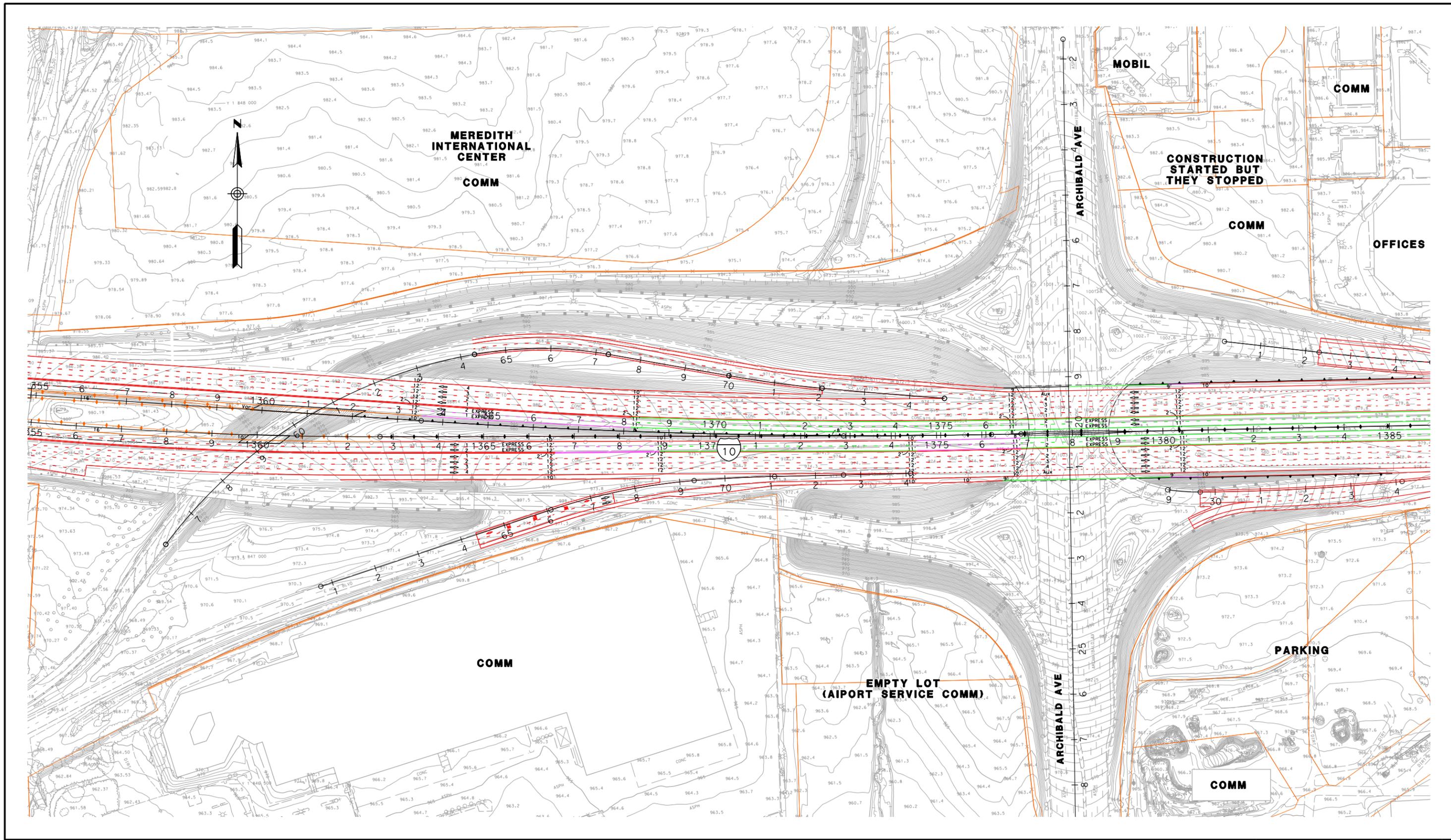


**I-10 CORRIDOR ALTERNATIVE 3  
 NADR RECOMMENDED BARRIER  
 HEIGHTS & LOCATIONS**

JULY 1, 2015

**FIGURE 117**





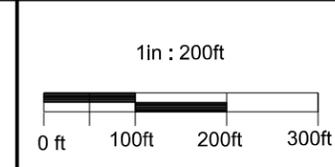
**LEGEND**

- ⊕RXX - RECEIVER SITE
- ⊕CAL - CALIBRATION SITE
- ⊕LT - LONG-TERM MEASUREMENT
- ⊕ST - SHORT-TERM MEASUREMENT

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 b - BENEFITED RESIDENCE  
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— — — — — - EXISTING PROPERTY WALL  
 — — — — — - EXISTING SOUNDWALL  
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 — — — — — - REPLACEMENT IN KIND SOUNDWALL

▲ — ▲ — ▲ — - RETAINING WALL  
 ◆ — ◆ — ◆ — - SAFETY BARRIER  
 ▲ — ▲ — ▲ — - DRAINAGE RETAINING WALL  
 ● — ● — ● — - NON-REASONABLE SOUNDWALL

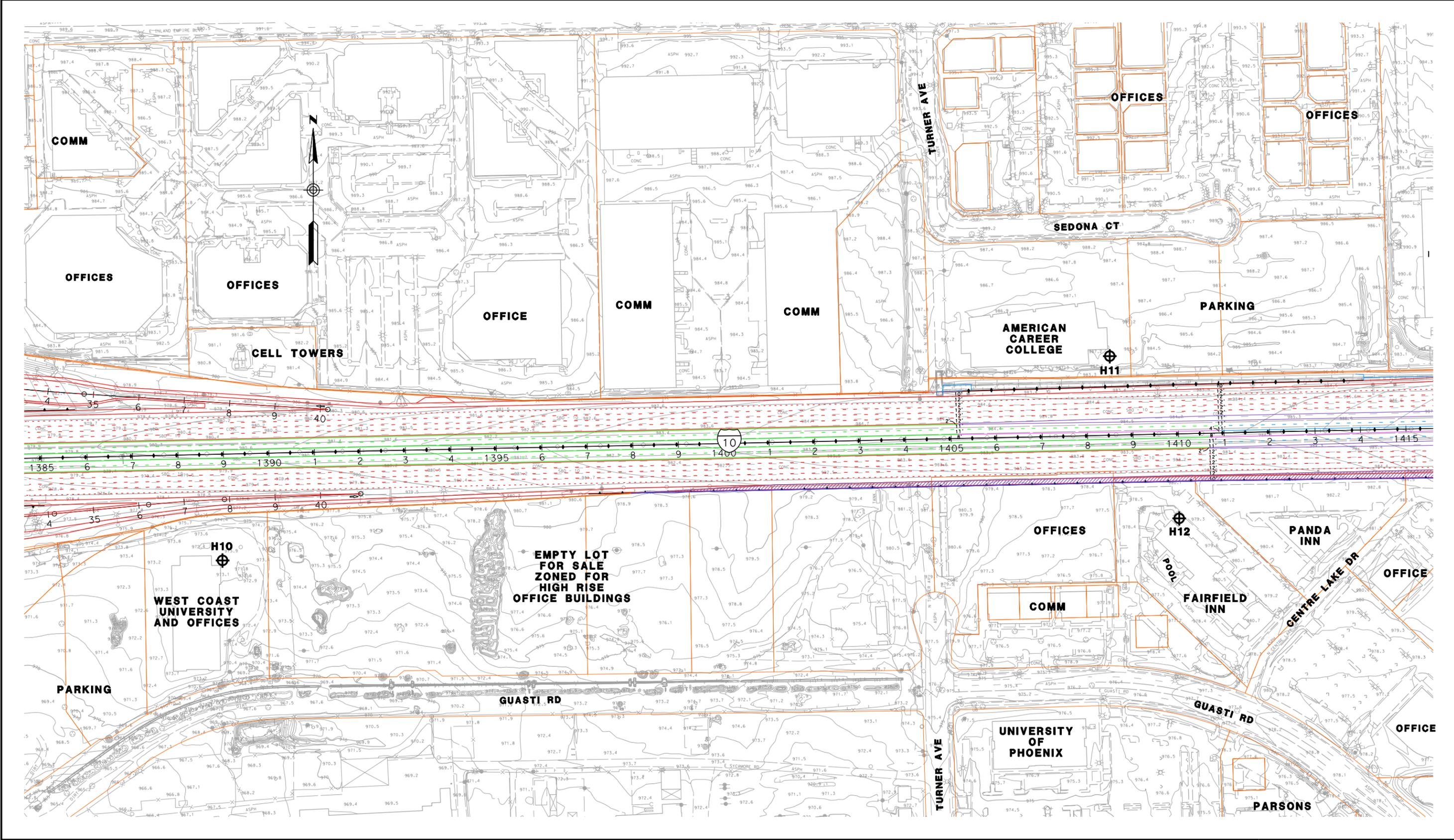


**I-10 CORRIDOR ALTERNATIVE 3  
 NADR RECOMMENDED BARRIER  
 HEIGHTS & LOCATIONS**

JULY 1, 2015

**FIGURE 118**



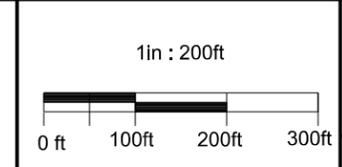


**LEGEND**

- ⊕RXX - RECEIVER SITE
- ⊕CAL - CALIBRATION SITE
- ⊕LT - LONG-TERM MEASUREMENT
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 ⊕HXX - IN/OUTDOOR MEASUREMENT

- — — — — - EXISTING PROPERTY WALL
- — — — — - EXISTING SOUNDWALL
- — — — — - PROPOSED SOUNDWALL
- — — — — - REPLACEMENT IN KIND SOUNDWALL
- — — — — - EXISTING RETAINING WALL
- — — — — - SAFETY BARRIER
- — — — — - DRAINAGE RETAINING WALL
- — — — — - NON-REASONABLE SOUNDWALL

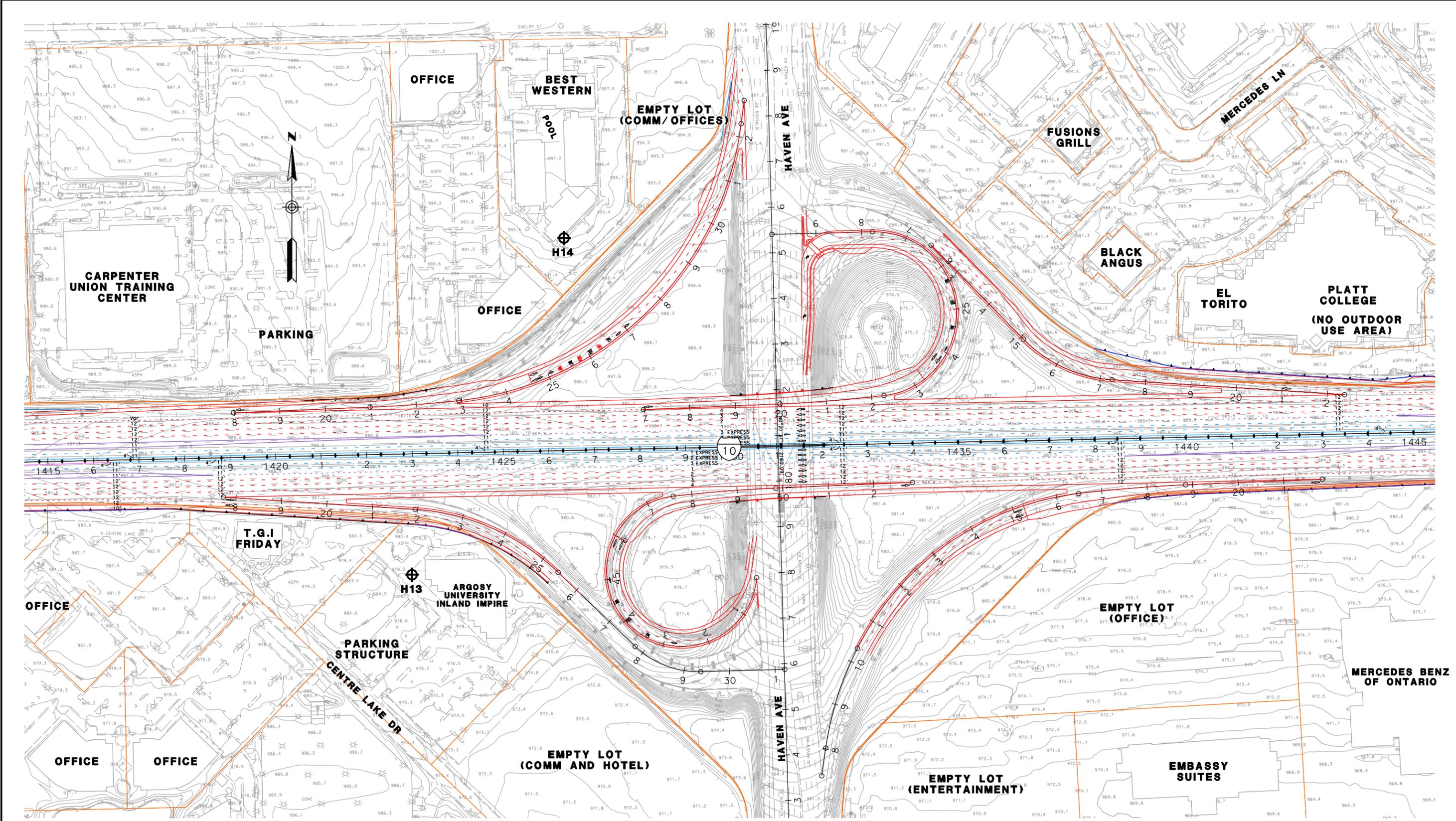


**I-10 CORRIDOR ALTERNATIVE 3  
 NADR RECOMMENDED BARRIER  
 HEIGHTS & LOCATIONS**

JULY 1, 2015

**FIGURE 119**

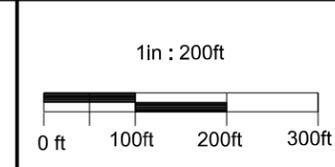




- LEGEND**
- ⊕RXX - RECEIVER SITE
  - ⊕CAL - CALIBRATION SITE
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- — — — — - RETAINING WALL
- — — — — - SAFETY BARRIER
- — — — — - DRAINAGE RETAINING WALL
- — — — — - NON-REASONABLE SOUNDWALL

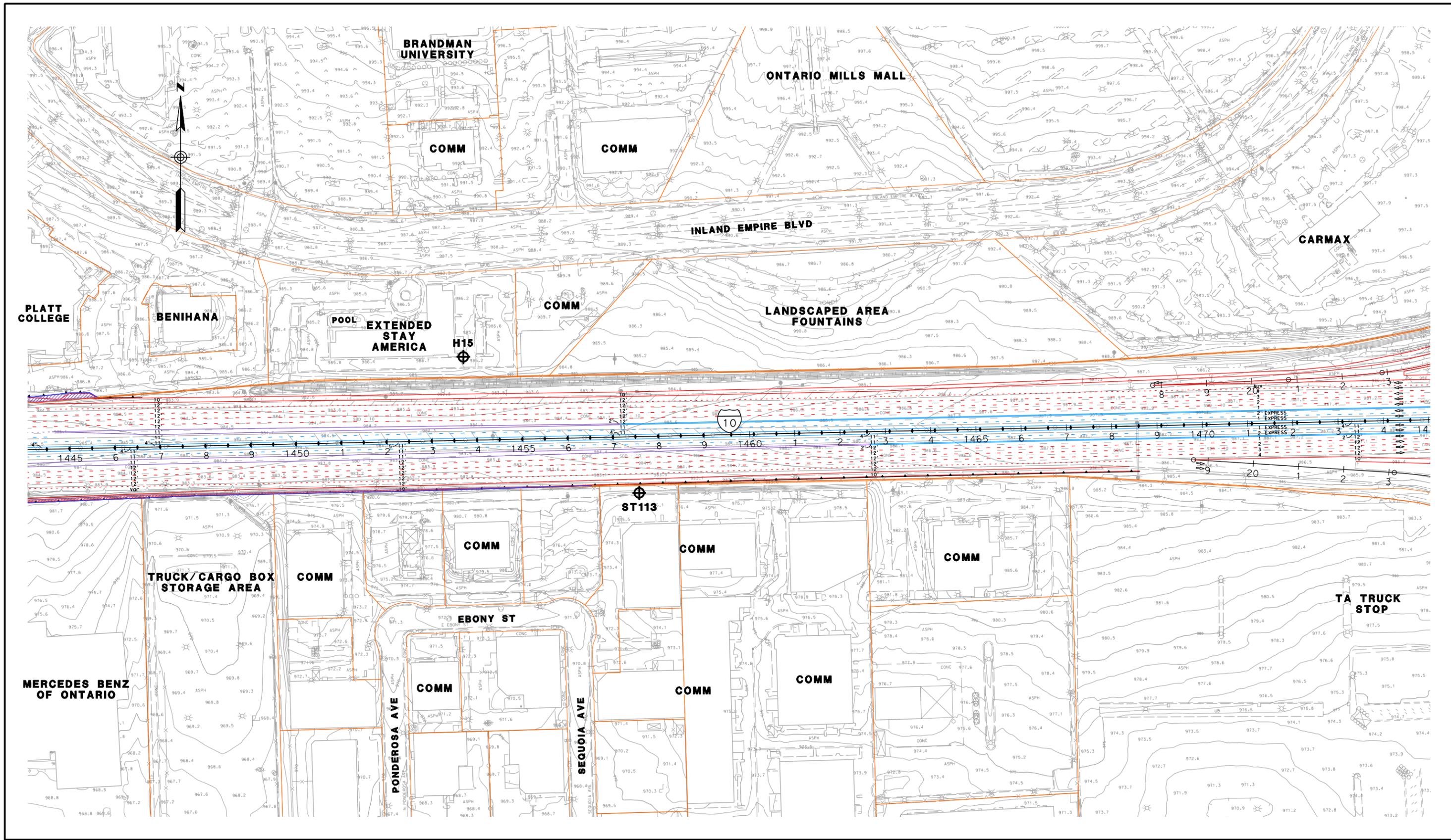


**I-10 CORRIDOR ALTERNATIVE 3  
NADR RECOMMENDED BARRIER  
HEIGHTS & LOCATIONS**

JULY 1, 2015

**FIGURE 120**



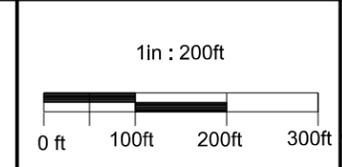


- LEGEND**
- ⊕RXX - RECEIVER SITE
  - ⊕CAL - CALIBRATION SITE
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- ▲ — — — — — - RETAINING WALL
- ◆ — — — — — - SAFETY BARRIER
- ▲ — — — — — - DRAINAGE RETAINING WALL
- — — — — — - NON-REASONABLE SOUNDWALL

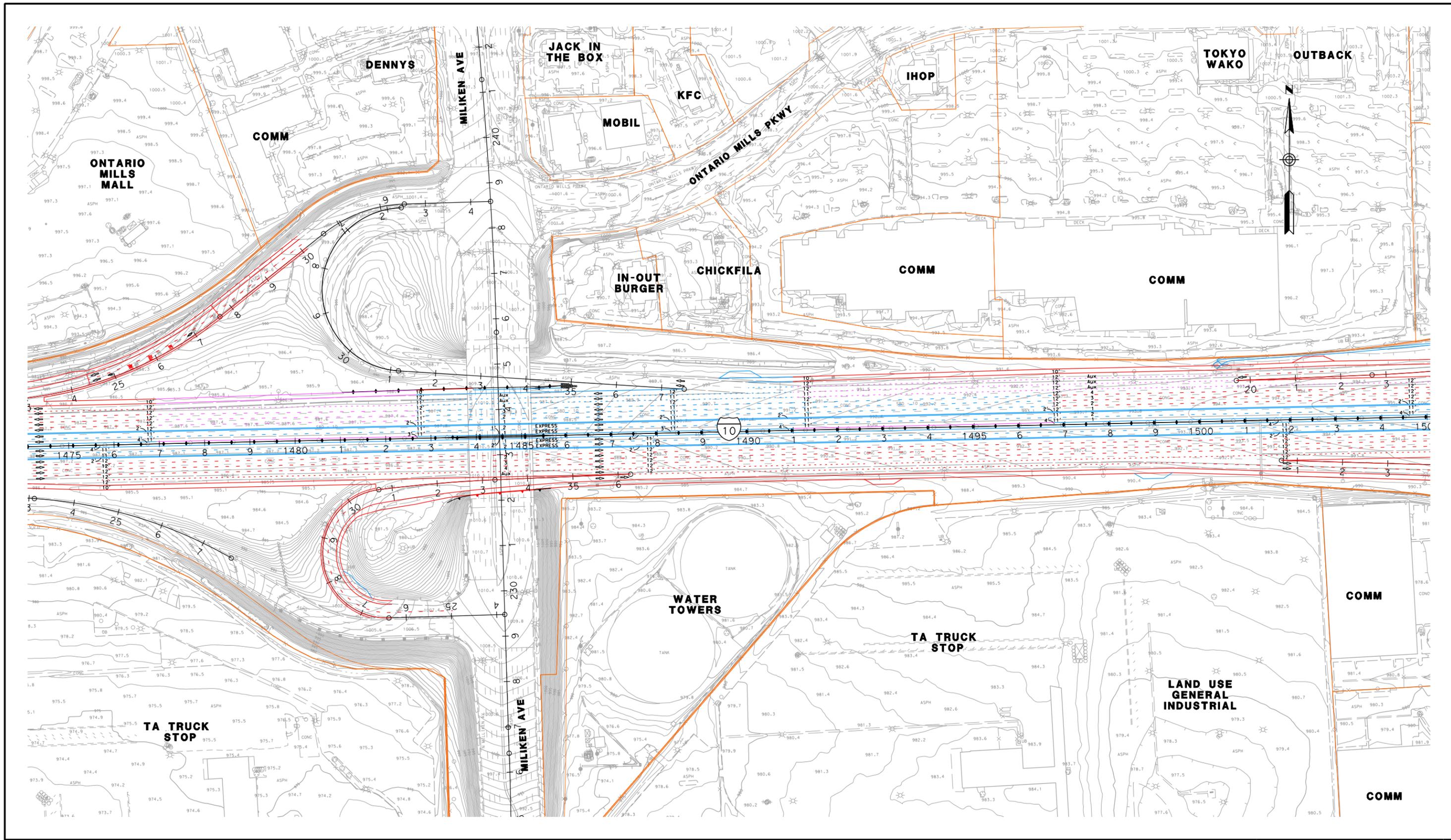


**I-10 CORRIDOR ALTERNATIVE 3  
NADR RECOMMENDED BARRIER  
HEIGHTS & LOCATIONS**

JULY 1, 2015

**FIGURE 121**



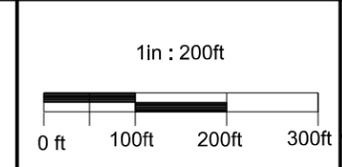


- LEGEND**
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- ◆ — — — — — - SAFETY BARRIER
- ▲ — — — — — - DRAINAGE RETAINING WALL
- — — — — — - NON-REASONABLE SOUNDWALL

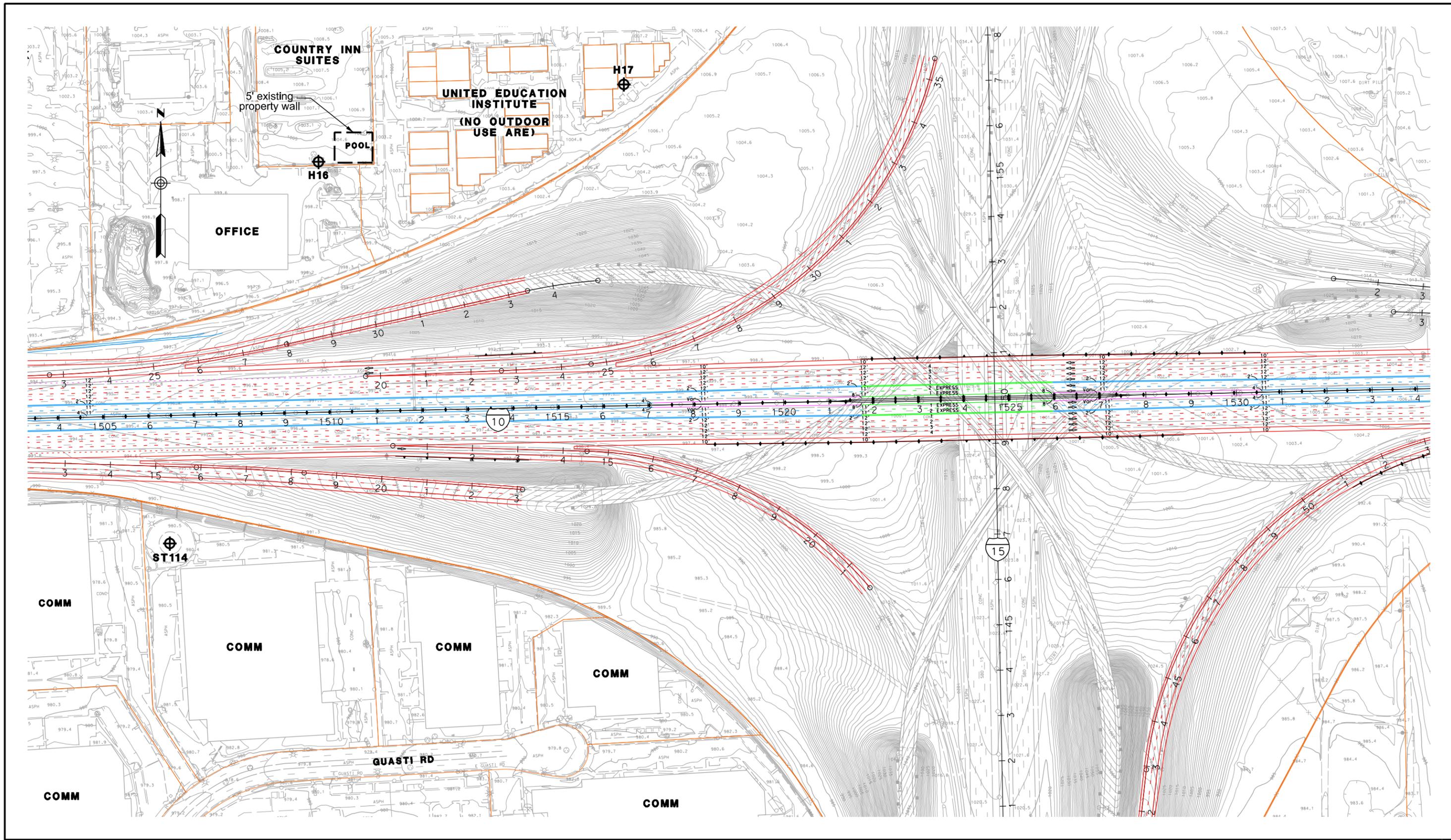


**I-10 CORRIDOR ALTERNATIVE 3  
NADR RECOMMENDED BARRIER  
HEIGHTS & LOCATIONS**

JULY 1, 2015

**FIGURE 122**





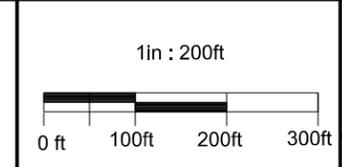
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 ▲ — — — — — - DRAINAGE RETAINING WALL  
 ● — — — — — - NON-REASONABLE SOUNDWALL

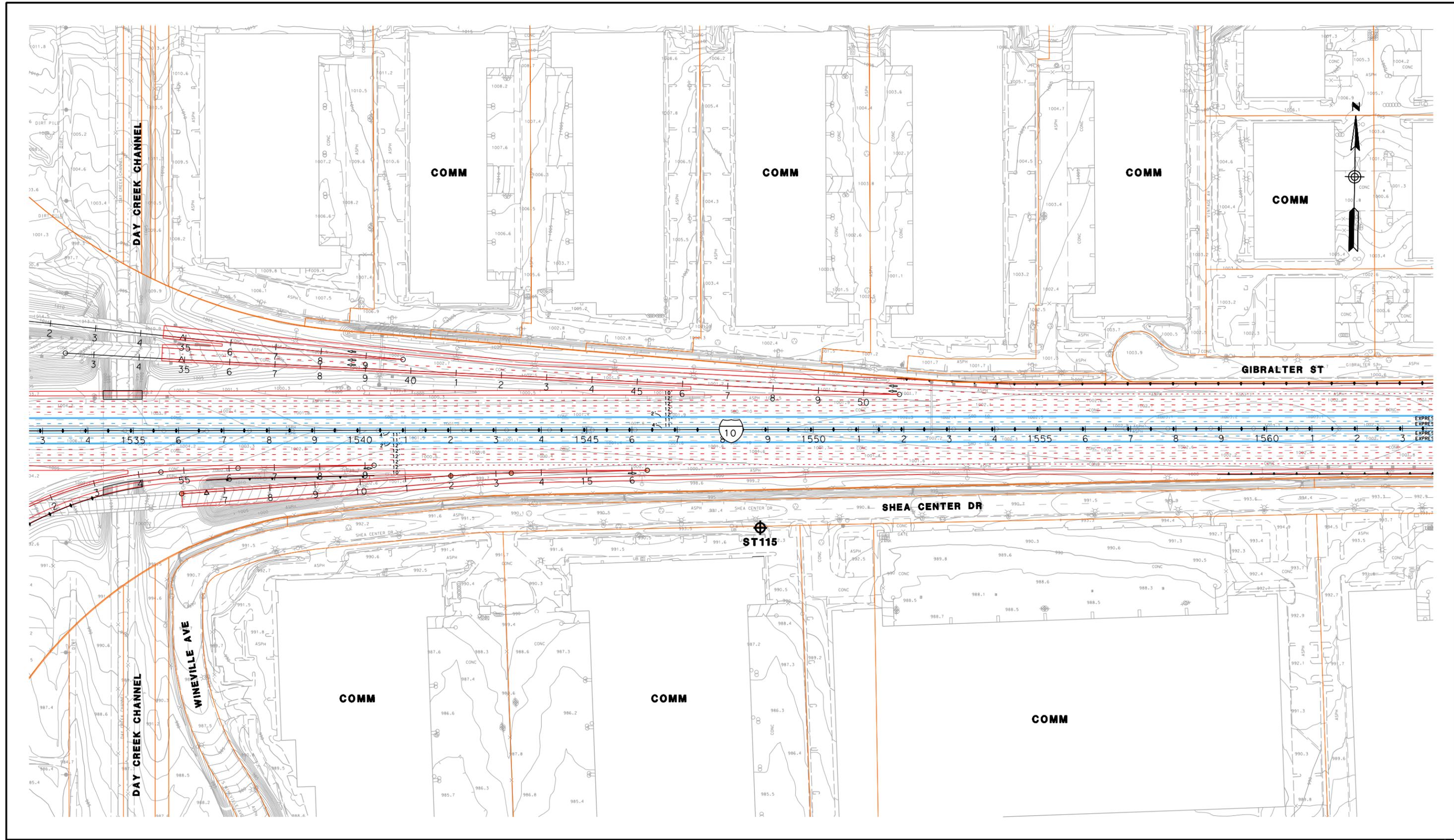


**I-10 CORRIDOR ALTERNATIVE 3  
 NADR RECOMMENDED BARRIER  
 HEIGHTS & LOCATIONS**

JULY 1, 2015

**FIGURE 123**





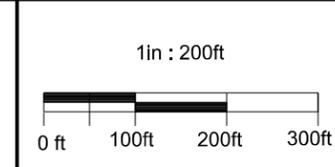
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- ▲ — ▲ — ▲ — - DRAINAGE RETAINING WALL
- — ● — ● — - NON-REASONABLE SOUNDWALL

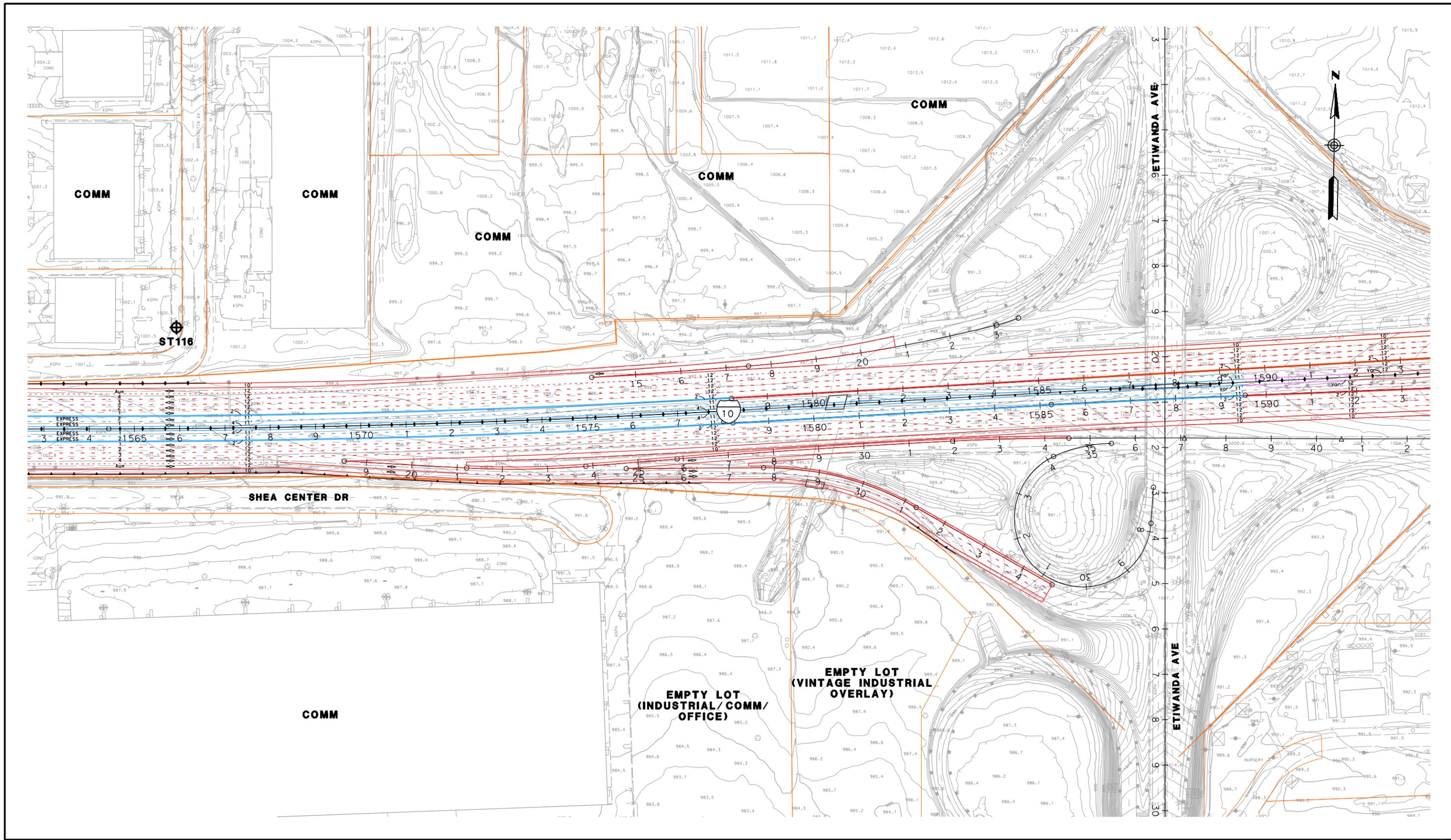


**I-10 CORRIDOR ALTERNATIVE 3  
NADR RECOMMENDED BARRIER  
HEIGHTS & LOCATIONS**

JULY 1, 2015

**FIGURE 124**





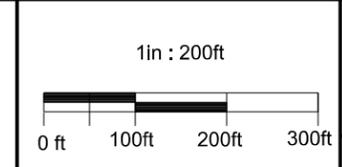
**LEGEND**

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 ◆ — ◆ — ◆ — - SAFETY BARRIER  
 ▲ — ▲ — ▲ — - DRAINAGE RETAINING WALL  
 ● — ● — ● — - NON-REASONABLE SOUNDWALL



**I-10 CORRIDOR ALTERNATIVE 3  
 NADR RECOMMENDED BARRIER  
 HEIGHTS & LOCATIONS**

JULY 1, 2015

**FIGURE 125**

