



May 15, 2014

W. Melrose Ave .

Pole Location 41840501B20208

Station 953 + 40, Right 120 \_

Center of Pole to fence 9' 6 "

Time Warner Cable (TWC) on pole – Not Crossing I – 75

Neutral @ pole 24' 8"

Bottom Primary @ pole 28' 8"

Top Primary @ pole 32' 8 "

- Minimum required horizontal distance from proposed noise barrier to existing power line and poles 20' from 69 KV Line & 10 ' from Primary 7.2 KV Phase to ground
- Height of each existing pole 70'
- How many primary lines and voltages 3- primary Lines 7.2 KV phase to ground & 3- 69 KV Lines
- Width of the cross arms 10'
- Any under-built utilities (ie cable TV, Telecom) Yes , Not over wall barrier
- Low-point sag elevations , Not Measured lowest point over middle of I – 75

Plans are to De- Energize and Ground Primary that goes over, I – 75. Temporary Bases and depending on loading of Station & Circuit.

Pole Location 41840501B20131

Station 952 + 60, Left 110 \_

Center of Pole to Fence 3' 6"

Neutral @ pole 26' 8 "

Primary @ pole 34' 8"

- Minimum required horizontal distance from proposed noise barrier to existing power line and poles **10' Clearance from 7.2 KV Phase to Ground**
- Height of each existing pole **40' pole**
- How many primary lines and voltages **3- Primary line 7.2 KV phase to ground**
- Width of the cross arms **10'**
- Any under-built utilities (ie cable TV, Telecom) **No**
- Low-point sag elevations **not measured over middle of I – 75**

Plans are to De- Energize and Ground Primary that goes over, I – 75. Temporary Bases and depending on loading of Station & Circuit.

*121. Melrose Ave Clearance from Distribution*

Table 234-1— (continued)

ft

**Clearance of wires, conductors, cables, and unguarded rigid live parts adjacent but not attached to buildings and other installations except bridges**

(Voltages are phase to ground for effectively grounded circuits and those other circuits where all ground faults are cleared by promptly de-energizing the faulted section, both initially and following subsequent breaker operations. See the definitions section for voltages of other systems. Clearances are with no wind displacement except where stated in the footnotes below.

See Rules 234A, 234C1a, 234C2, and 234H4.)

Clearance of	Insulated communication conductors and cables; messengers; overhead shield/surge-protection wires; grounded guys; ungrounded portions of guys meeting Rules 215C4, 215C5, and 279A1 exposed to 0 to 300 V <sup>ⓐ</sup> ⊕ neutral conductors meeting Rule 230E1; supply cables meeting Rule 230C1 (ft)	Supply cables of 0 to 750 V meeting Rule 230C2 or 230C3 (ft)	Unguarded rigid live parts, 0 to 750 V; noninsulated communication conductors; ungrounded equipment cases, 0 to 750 V; and ungrounded portions of guys meeting Rules 215C4, 215C5, and 279A1 exposed to open supply conductors of over 300 V to 750 V <sup>ⓐ</sup> ⊕ (ft)	Supply cables over 750 V meeting Rule 230C2 or 230C3; open supply conductors, 0 to 750 V <sup>ⓐ</sup> (ft)	Unguarded rigid live parts, over 750 V to 22 kV; ungrounded portions of guys meeting Rules 215C4, 215C5, and 279A1 exposed to over 750 V to 22 kV <sup>ⓐ</sup> ⊕ (ft)	Open supply conductors, over 750 V to 22 kV (ft)
<b>b. Vertical</b>						
(1) Over or under catwalks and other surfaces upon which personnel walk	10.5	11.0	11.0	11.5	13.0	13.5
(2) Over or under other portions of such installations <sup>ⓑ</sup>	3.0	3.5	5.5	6.0 <sup>ⓓ</sup>	7.5	8.0

**NOTE:** The clearance values shown in this table are computed by adding the applicable Mechanical and Electrical (M & E) value of Table A-1 to the applicable Reference Component of Table A-2b of Appendix A.

- ⓐ Where building, sign, chimney, antenna, tank, or other installation does not require maintenance such as painting, washing, changing of sign letters, or other operations that would require persons to work or pass between wires, conductors, cables or unguarded rigid live parts and structure, the clearance may be reduced by 2 ft.
- ⓑ Where available space will not permit this value, the clearance may be reduced by 2 ft provided the wires, conductors, or cables, including splices and taps, and unguarded rigid live parts have a covering that provides sufficient dielectric strength to limit the likelihood of a short circuit in case of momentary contact with a structure or building.
- ⓒ A roof, balcony, or area is considered readily accessible to pedestrians if it can be casually accessed through a doorway, ramp, window, stairway, or permanently mounted ladder by a person on foot who neither exerts extraordinary physical effort nor employs tools or devices to gain entry. A permanently mounted ladder is not considered a means of access if its bottom rung is 8 ft or more from the ground or other permanently installed accessible surface.
- ⓓ The required clearances shall be to the closest approach of motorized signs or moving portions of installations covered by Rule 234C.
- ⓔ The portion(s) of span guys between guy insulators and the portion(s) of anchor guys above guy insulators that are not grounded shall have clearances based on the highest voltage to which they may be exposed due to a slack conductor or guy.
- ⓕ For the purpose of this rule, trucks are defined as any vehicle exceeding 8 ft in height.



May 15, 2014

W. Bigelow Ave.

The Heritage Retirement Center.

Pole Location 41840501A20044

Station 982 + 40, Right 105 \_

Center of Pole to fence 3' 6 "

Time Warner Cable (TWC)

TWC @ Pole 19' 8"

Neutral @ pole 23' 8"

Bottom Primary @ pole 27' 8"

Top Primary @ pole 32' 8 "

- Minimum required horizontal distance from proposed noise barrier to existing power line and poles 10 ' from Primary 7.2 KV Phase to ground
- Height of each existing pole 40'
- How many primary lines and voltages 3- primary Lines 7.2 KV phase to ground
- Width of the cross arms 8'
- Any under-built utilities (ie cable TV, Telecom) Yes
- Low-point sag elevations , Measured @ mid span Neu. 17' 2" , Pri. 19' 8 "

Pole Location 41840501A20077

Station 984 + 90 , Direction Right 110 \_

Center of Pole to Fence 6' 6"

TWC @ Pole 17' 2"

Neutral @ pole 23' 2 "

Primary @ pole 28' 8"

- Minimum required horizontal distance from proposed noise barrier to existing power line and poles **10' Clearance from 7.2 KV Phase to Ground**
- Height of each existing pole **35' pole**
- How many primary lines and voltages **3- Primary line 7.2 KV phase to ground**
- Width of the cross arms **8'**
- Any under-built utilities (ie cable TV, Telecom) **Yes**
- Low-point sag elevations **measured @ Mid span Neu. 15' 8 " & Pri. 22' 2"**

Pole Location 41840501A20078

Station 987 + 30 , Direction Right 105 \_

Center of Pole to Fence 6' 4"

TWC @ Pole 17' 8"

Neutral @ pole 21' 4 "

Bottom Primary @ pole 25' 8"

Top Primary @ pole 28' 8"

- Minimum required horizontal distance from proposed noise barrier to existing power line and poles **10' Clearance from 7.2 KV Phase to Ground**
- Height of each existing pole **35' pole**
- How many primary lines and voltages **3- Primary line 7.2 KV phase to ground**
- Width of the cross arms **8'**
- Any under-built utilities (ie cable TV, Telecom) **Yes**
- Low-point sag elevations **measured @ Mid span Neu. 24' 2 " & Pri. 32' 2"**

Pole Location 41840501A20117

Station 987 + 60 , Direction Right 105 \_

Center of Pole to Fence 5' 0"

TWC not on pole

Neutral @ pole 28' 8 "

Primary @ pole 37' 8"

- Minimum required horizontal distance from proposed noise barrier to existing power line and poles **10' Clearance from 7.2 KV Phase to Ground**
- Height of each existing pole **45' pole**
- How many primary lines and voltages **3- Primary line 7.2 KV phase to ground**
- Width of the cross arms **8'**
- Any under-built utilities (ie cable TV, Telecom) **No**
- Low-point sag elevations **Buried to sectionalizing cabinet**

Cabinet Location 41840501A20115

Station 987 + 90 Right 105

Center of cabinet to fence 4' 2"

Underground Primary facilities 3 – phase 12.470 KV

Pole Location 41840501A20079

Station 987 + 50, Direction Right 160 \_

Center of Pole to Fence 65' 0"

TWC , Neutral , & primary are not close to crane work @ least fifty foot from fence area.



May 15, 2014

I – 75 Project Lima Avenue ramps

Sheet - 404

Station 74 + 73, Left 26

Pole 41840549B20039 Existing

Station 74 + 33, Left 26

Pole 41840549B2000A – Install new Pole 45/3 pole

Station 73 + 24, Left 35

Pole 41840549B20041 – Remove Existing 45/3 Pole

Station 72 + 38, Left 30

Pole 41840549B20042 – Remove Existing 45/4 Pole – Relocate

Station 72 + 10 , Left 26 – Install new pole 45/3 Pole

Sheet – 402

Station 72 + 05, Right 50

Pole 41840549B20080 – Replace Existing Pole 40/4

Station 69 + 92, Right 40

Pole 41840549B20044 - Existing Pole 50/2

Station 69 + 70, Left 20 ; & Station 69 + Station 69 + 72 Right 25 ( G1 – Ramp )

Pole 41840549B20107 – Remove 40/4 Pole

Station 69 + 10, Left 30 ; & Station 69 + 18 Right 20 ( G1 – Ramp )

Pole 41840549B2000B – New Pole 35/5 – guy stub Pole

Station 70 + 00, Right 110

Pole 41840549B2000C – New 40/4 Pole

Station 69 + 20, Left 20 ; ( G1- Ramp )

Pole 41840549B2000D – Install New Guy Pole 35/5

Station 69 + 00, Right 80

Pole 41840549B20045 – Existing 45/5

Station 69 + 00, Right 150

Pole 41840549B2000E – Install New Guy Pole 35/5

Sheet 400

Station 67 + 40, Right 140

Pole 41840549B20046 – Existing 40/4

Station 67 + 25, Right 85

Pole 41840549B2000F – New Pole 40/4

Future Underground route



Station 65 + 45, Right 175

Pole 41840549B20049 – Remove 45/4 Pole

Sheet 398 Lima Ave & Sheet 425 ( Lima Ave Ramp A )

Station 62 + 85, Right 180

Station 757 + 20, Right 5 ( Ramp A)

Pole 41840548D40056 – Remove 50/4 Pole

Station 62 + 85, Right 110

Station 758 + 00, Right 60 ( Ramp A )

New Pole 41840548D4000A – Install Pole Underground Comes up pole 45/4

Station 62 +02, Right 145

Station 759 + 71, Left 46 ( Ramp A )

New Pole 4184 548D4000B - Install Pole Future Recloser bank 45/4

Station 61 + 22, Right 175

Station 759 + 31, Left 82 ( Ramp A )

Existing Pole 41840548D40069 – Replace 45/4 Pole

Station 59 + 15, Right 70

New Pole 41840548D4000C- Install pole future Capacitor Bank 45/4

Station 58 + 58, Right 40

Existing Pole 41840548D40053 - 45/4

Station 58 + 62, Left 135

Existing Pole 41840548D40022 – Pole 40/4

Sheet 396

Station 57 + 00, Left 60

Existing Pole 41840548D40064 – 40/4

Station 56 + 10, Left 35

Existing Pole 41840548D40052 – 50/4

Station 54 + 45, Left 34

Existing Pole 41840548D40045 – 45/4

Station 54 + 45, Right 90

Existing Pole 41840548D40049 – 40/4

Station 53 + 24, Left 32

Existing Pole 41840548D40044 – 40/4

Station 51 +78, Left 34

Existing Pole 41840548D40041 – 45/4

Sheet 396 Logan Ave.

Station 11 + 70, Left 20

Existing Pole 41840548D40032 – 40/4

Sheet 450

Lima Ave. G1 – Ramp.

Station 69 + 92, Right 40

Pole 41840549B20044 - Existing Pole 50/2

Station 69 + Station 69 + 72 Right 25 ( G1 – Ramp )

Pole 41840549B20107 – Remove 40/4 Pole

Station 69 + 18 Right 20 ( G1 – Ramp )

Pole 41840549B2000B – New 40/4 Pole

Station 69 + 20, Left 20 ; ( G1- Ramp )

Pole 41840549B2000C – Install New Guy Pole 35/5

Station 68 + 34, Right 8

Pole 41840549B20108 – Remove 40/4

Sheet 400

Station 66 + 90, Right 25

Pole 41840549B20215, - Replace 45/4

Sheet 440

Station 65 + 00, Left 65

Existing Pole 41840548D40156 – Pole 40/5

Sheet 508 ( Service Road )

Station 0 + 30, Right 85

Pole 41840549B2000A – Install new Pole 45/3 pole

Station 0 + 91 , Right 43

Pole 41840549B2000F – Install new Pole 40/4 Pole

Station 2 + 80 , Left 35

Pole 41840549B20151 – Existing Pole 40/4

Station 3 + 70, Left 45

Pole 41840549B20098 – Replace 35/5 w/ 40/5 Pole

Station 5 + 32, Left 35

Pole 41840549B20136 – Existing 40/5 Pole

NOT List are the street light poles that can be removed, early in the project.