



THE CITY OF SAN DIEGO

# Traffic Control Permit (TCP) Multiple Location List

(Franchise Utility Company Only - May Not Be submitted By Contractor)

**City Use Only**  
 Authorized # \_\_\_\_\_  
 By Felipe Anila  
 Yes  No \_\_\_\_\_  
 Date Reviewed 5/1/18

To: City of San Diego, Traffic Permit Section Date: 5/01/18  
 From: (Company): SDG&E Phone No.: 619-778-2405  
 Contact Person: Rod Nelson Fax.: \_\_\_\_\_  
 W.O. or Account #: Permit # \_\_\_\_\_ TCP No. \_\_\_\_\_

- TYPE OF WORK**
- 1 = Lane Closure
  - 2 = Street Closure
  - 3 = Sidewalk Closure
  - 4 = Alley Closure
  - 5 = Parking Lane
  - 6 = Detour
  - 7 = Trenching
  - 8 = Flagging

APPROVED  
 TRAFFIC CONTROL PERMIT  
 MAY 01 2018  
 CITY OF SAN DIEGO  
 Development Services  
 Engineering Division  
 Traffic Safety Section

Location	From	To	Start Date *	End Date *	Work Hours **	Thomas Bros.	Type of Work
Carroll Canyon Road	Scranton Street	Youngstown Way	5/6/18	5/25/18	9:00PM - 5:00AM	1208-D7, E7, F7	1,5,7,8
Scranton Road	Carroll Canyon Road	Mira Mesa Blvd	5/6/18	5/25/18	9:00PM - 5:00AM	1208-E7	8
Younstown Way	Carroll Canyon Road	Oberlin Drive	5/6/18	5/25/18	9:00PM - 5:00AM	1208-F7	8

ORIGINAL PERMIT MUST  
 BE KEPT  
 ON JOB SITE ALL TIMES

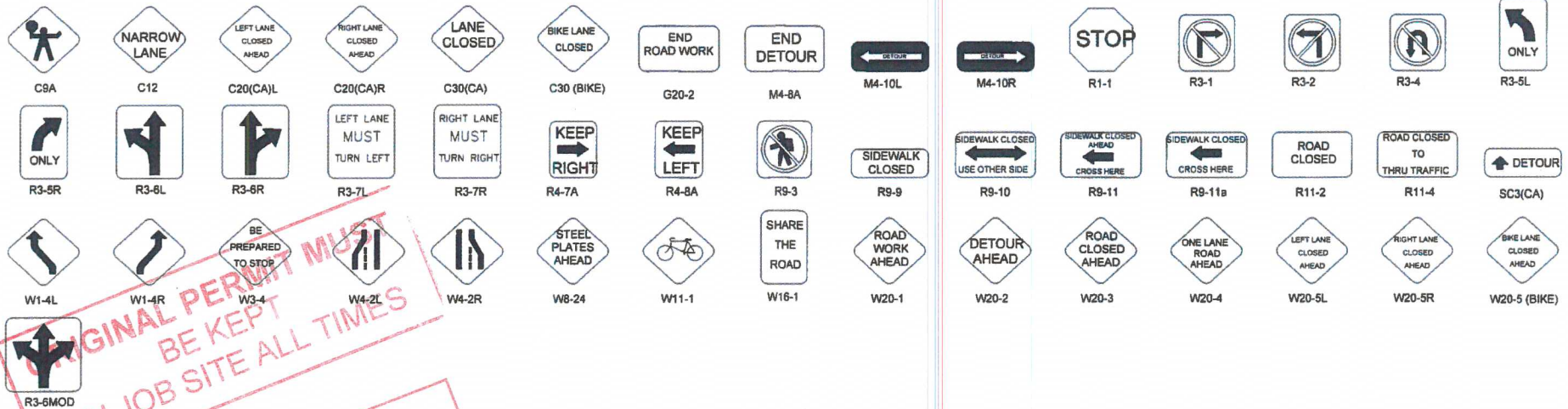
**Comments:** Trenching crew - Phases 1 and Caltrans Phases C-1 through C-4 - Sunday through Thursday night work, 9pm - 5am  
 Must be submitted a minimum of 2 working days prior to start of work. All columns must be filled out for proper authorization  
 Fax or mail to: City of San Diego • Traffic Control Permit Section • 1222 First Avenue, MS 501 • San Diego, CA 92101. Fax (619) 446-5489 Office (619) 446-5150  
 \* Work Days: Monday Through Friday \*\* Work Hours : 8:30 AM - 3:30PM. Unless other hours are preapproved)  
 No Work on Saturdays, Sundays, or Holidays Unless Approved and Noted In Comments  
 Minimum of 5 working days required for construction work which affects traffic signal e-mail info to: [deinfre@sandiego.gov](mailto:deinfre@sandiego.gov)

**ATTENTION UTILITY COMPANY**

Special Inspection Fees May Be Applied By City of San Diego For Any Night or Weekend Work.

*Jvaca*  
 deinfre@sandiego.gov

**SIGN LEGEND**



APPROACH SPEED (MPH)	MINIMUM DISTANCE (FEET) BETWEEN SIGNS AND FROM LAST SIGN TO TAPER
25	100
30	250
35	250
40	250
45	350
50	350
55+	350

MINIMUM DISTANCE (FEET) BETWEEN SIGNS AND FROM LAST SIGN TO TAPER

MINIMUM TAPER LENGTHS (L) (FEET) FOR 12-FOOT LANE

L	1/2L	1/3L
125	65	45
180	90	60
245	125	85
320	160	110
540	270	180
600	300	200
660	330	220

BUFFER LENGTH (FEET)

155
200
250
305
360
425
495

MAX CONE SPACING

TAPER	TANGENT	CONFLICT
25	50	12
30	60	15
35	70	17
40	80	20
45	90	22
50	100	25
55	110	27

**LEGEND**

- APPROXIMATE POTHOLE LOCATION
- SIGN
- TRAFFIC CONES / DELINEATOR
- BARRICADE
- FLAGGER
- FLASHING ARROW SIGN
- WORK ZONE
- CONSTRUCTION VEHICLE
- BUS STOP

APPROVED  
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 01 2018  
 CITY OF SAN DIEGO  
 Development Services  
 Engineering Division  
 Traffic Safety Section

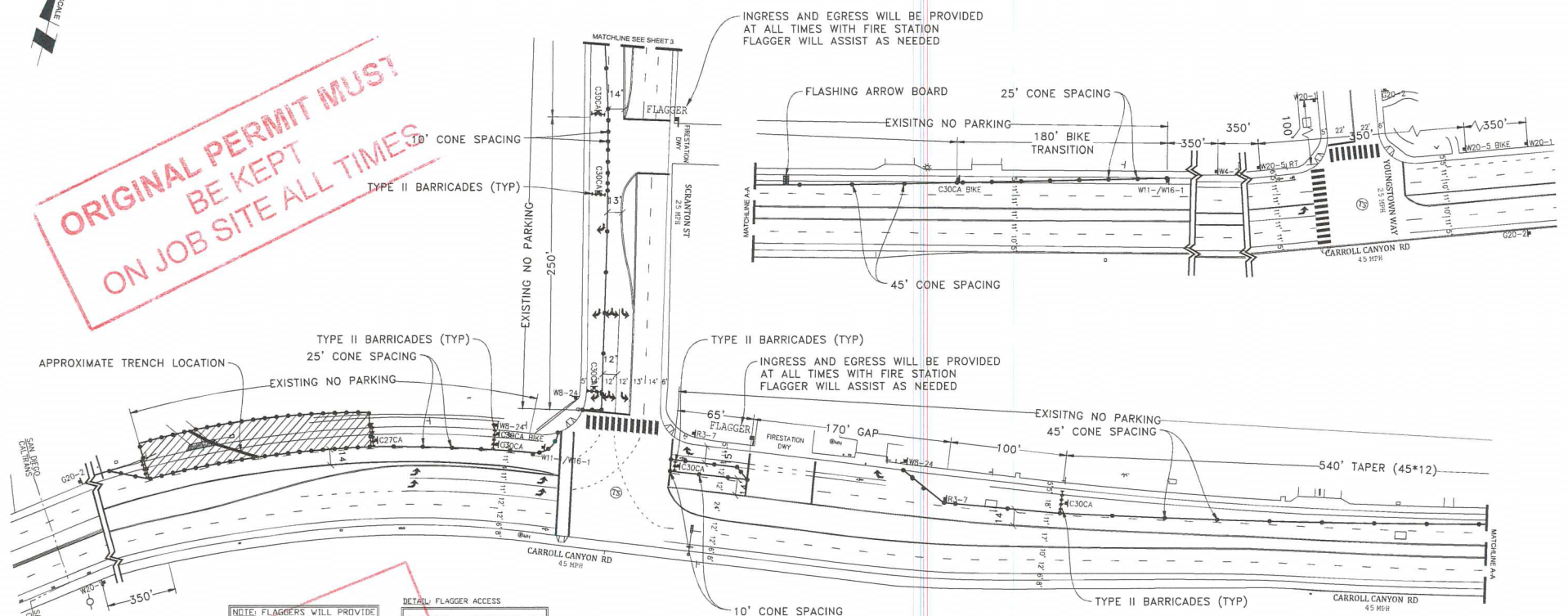
UTILITY SURVEYORS, INC.  
  
**Gail McMorran**  
 President  
 2534 EAST EL NORTE PARKWAY, SUITE C  
 ESCONDIDO, CA 92027  
 PHONE: (760) 480-2347  
 CELL: (760) 419-3738

<b>PROJECT NAME:</b> TL23071 – Sycamore Canyon Substation To Penasquitos Substation – 230 KV Underground		<b>DATE:</b> Mar 2, 2017
<b>AIRX JOB#:</b> X160218	<b>THOMAS GRID#:</b> –	<b>DESIGNED BY:</b> Clint Jones
<b>TYPE OF WORK:</b> TRENCHING / CONDUIT		<b>SHEET 1 OF 4</b>
<b>MISC/POTHOLE#:</b>		

**DATE:** Mar 2, 2017  
**DESIGNED BY:**  
 Clint Jones  
**SHEET 1 OF 4**



**ORIGINAL PERMIT MUST BE KEPT ON JOB SITE ALL TIMES**



**APPROXIMATE TRENCH LOCATION**

**TRAFFIC CONTROL PERMIT**

**MAY 01 2018**

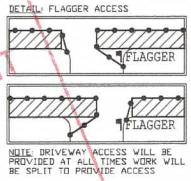
**CITY OF SAN DIEGO**  
Development Services  
Engineering Division  
Traffic Safety Section

NOTE: FLAGGERS WILL PROVIDE ACCESS TO DRIVEWAYS AT ALL TIMES

NOTE: FLAGGERS WILL SAFELY GUIDE PEDESTRIANS THROUGH WORK AREA

NOTE: CONTRACTOR WILL ALLOW FIRE STATION INGRESS AND EGRESS AT ALL TIMES

NOTE: WB-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK



NOTE: CONTRACTOR WILL COORDINATE ALL WORK WITH FIRE STATION PRIOR TO START OF WORK

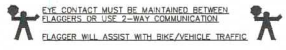
NOTE: CONTRACTOR WILL COORDINATE ALL WORK WITH TRANSIT DEPARTMENT 5 DAYS PRIOR TO START OF WORK

NOTE: CONTRACTOR WILL COORDINATE ALL WORK WITH EXISTING PROJECTS AND NOT CONFLICT WITH EXISTING TRAFFIC CONTROL

NOTE: CONTRACTOR WILL COORDINATE ALL WORK WITH RESIDENTS PRIOR TO START OF WORK

NOTE: CONTRACTOR WILL COORDINATE ALL WORK WITH BUSINESSES PRIOR TO START OF WORK

WORK HOURS: \_\_\_\_\_ TO \_\_\_\_\_



- LEGEND**
- SIGN
  - SIGNAL
  - TRAFFIC CONES / DELINEATOR
  - BARRICADE
  - FLAGGER
  - FLASHING ARROW SIGN
  - WORK ZONE
  - BUS STOP

UTILITY SURVEYORS, INC.

**AIRX**

Gail McMorran  
President

2534 EAST EL NORTE PARKWAY, SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 440-2347  
CELL: (760) 419-3738

<b>PROJECT NAME:</b> TL23071 - SYCAMORE CANYON SUBSTATION TO PENASQUITOS - 230 KV UNDERGROUND	
AIRX JOB#: X160218	THOMAS GRID#: --
TYPE OF WORK: TRENCHING / CONDUIT	DRAWN FOR: CITY OF SAN DIEGO
MISC/POTHOLE#:	

<b>DATE:</b> Mar. 6, 2017
<b>DESIGNED BY:</b> Clint Jones
<b>SHEET 002 OF 148</b>

**PHASE 1**

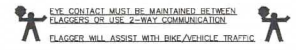


**ORIGINAL PERMIT MUST  
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**APPROVED  
TRAFFIC CONTROL PERMIT**  
MAY 01 2018  
CITY OF SAN DIEGO  
Development Services  
Engineering Division  
Traffic Safety Section

NOTE: CONTRACTOR WILL COORDINATE ALL WORK WITH RESIDENTS PRIOR TO START OF WORK

NOTE: CONTRACTOR WILL COORDINATE ALL WORK WITH BUSINESSES PRIOR TO START OF WORK



NOTE: CONTRACTOR WILL COORDINATE ALL WORK WITH FIRE STATION PRIOR TO START OF WORK

NOTE: CONTRACTOR WILL COORDINATE ALL WORK WITH TRANSIT DEPARTMENT 5 DAYS PRIOR TO START OF WORK

NOTE: CONTRACTOR WILL COORDINATE ALL WORK WITH EXISTING PROJECTS AND NOT CONFLICT WITH EXISTING TRAFFIC CONTROL

- LEGEND**
- SIGN
  - SIGNAL
  - TRAFFIC CONES / DELINEATOR
  - BARRICADE
  - FLAGGER
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  - WORK ZONE
  - BUS STOP

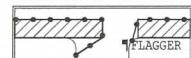
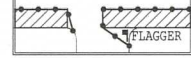
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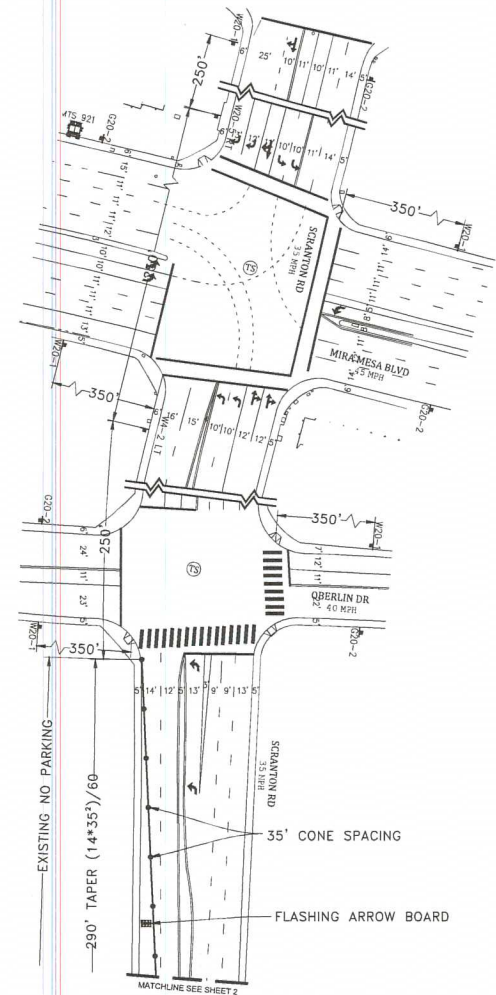
NOTE: CONTRACTOR WILL ALLOW FIRE STATION INGRESS AND EGRESS AT ALL TIMES

NOTE: W8-24 (STEEL PLATES) AHEAD SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

DETAIL: FLAGGER ACCESS



NOTE: DRIVEWAY ACCESS WILL BE PROVIDED AT ALL TIMES WORK WILL BE SPLIT TO PROVIDE ACCESS



WORK HOURS: \_\_\_\_\_ TO \_\_\_\_\_

**PHASE 1 (CONT)**

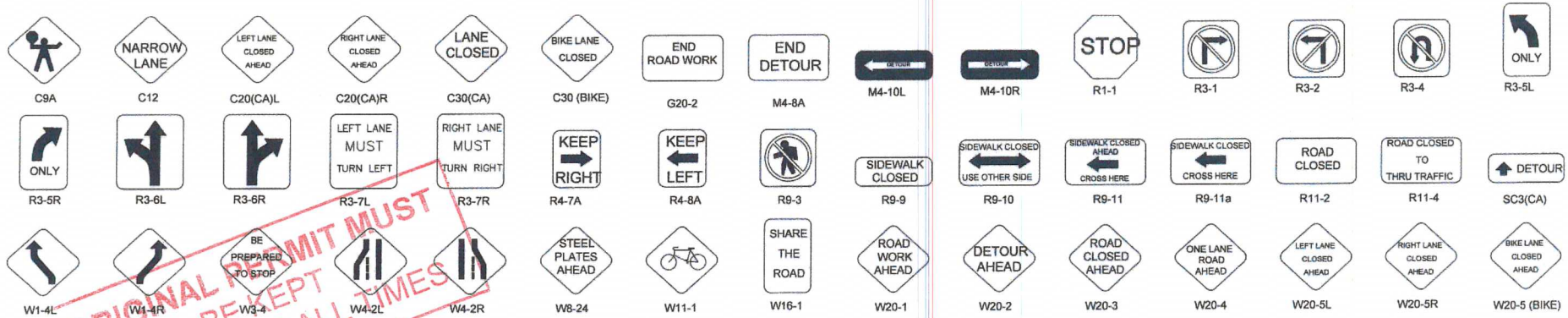
UTILITY SURVEYORS, INC.  
**AIRX**  
2534 EAST EL NORTE PARKWAY, SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 490-2347  
CELL: (760) 419-3738

Gail McMorran  
President

<b>PROJECT NAME:</b> TL23071 - SYCAMORE CANYON SUBSTATION TO PENASQUITOS - 230 KV UNDERGROUND	
<b>AIRX JOB#:</b> X160218	<b>THOMAS GRID#:</b> -
<b>TYPE OF WORK:</b> TRENCHING / CONDUIT	<b>DRAWN FOR:</b> CITY OF SAN DIEGO
<b>MISC/POTHLES#:</b>	

<b>DATE:</b> Mar. 6, 2017
<b>DESIGNED BY:</b> Clint Jones
<b>SHEET 003 OF 148</b>

**SIGN LEGEND**



ORIGINAL PERMIT MUST BE KEPT ON SITE ALL TIMES

**TABLE 1**

SPEED (S)	TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING							
	MINIMUM TAPER LENGTH FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING			
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	TAPER	TANGENT	CONFLUENT	Z
20	160	80	40	27	20	40	10	
25	250	125	63	42	25	50	12	
30	360	180	90	60	30	60	15	
35	490	245	123	82	35	70	17	
40	640	320	160	107	40	80	20	
45	1080	540	270	180	45	90	22	
50	1200	600	300	200	50	100	25	
55	1320	660	330	220	50	100	25	
60	1440	720	360	240	50	100	25	
65	1560	780	390	260	50	100	25	
70	1680	840	420	280	50	100	25	
75	1800	900	450	300	50	100	25	

**TABLE 2**

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
20	115	116	120	
25	155	158	165	
30	200	205	215	
35	250	257	271	
40	305	315	333	
45	360	378	400	
50	425	446	474	
55	495	520	553	
60	570	598	638	
65	645	682	728	
70	730	771	825	
75	820	866	927	

**TABLE 3**

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

**LEGEND**

- APPROXIMATE TRENCH LOCATION
- SIGN
- TRAFFIC CONES / DELINEATOR
- BARRICADE
- FLAGGER
- FLASHING ARROW SIGN
- WORK ZONE

111767K 0459  
8/16/17

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AUG 16 2017  
CALTRANS-PERMIT

**PROJECT NAME:** TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground



DATE: 7/12/2017  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
Gail McMorran  
President  
2534 EAST EL NORTE PARKWAY, SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 480-2547  
CELL: (760) 419-3738

**NIV5**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 858.385.0500 WWW.NIV5.COM

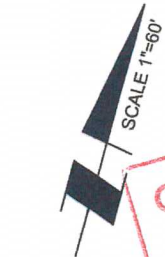
AIRX JOB#: X160218  
MISC./POTHOLE#: \_\_\_\_\_  
TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1208-E7  
DRAWN FOR: CALTRANS

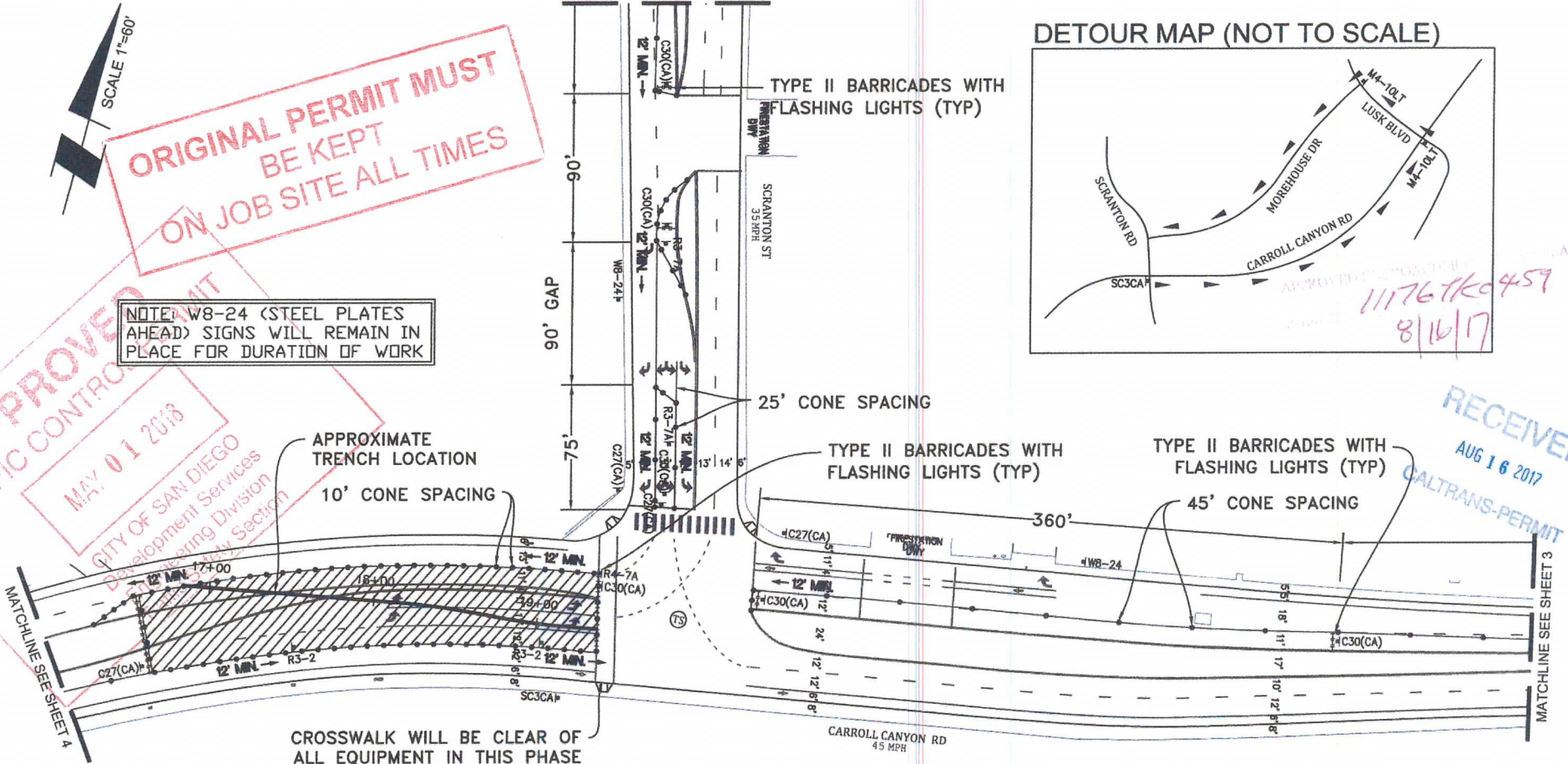
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NOTE: W8-24 (STEEL PLATES  
AHEAD) SIGNS WILL REMAIN IN  
PLACE FOR DURATION OF WORK

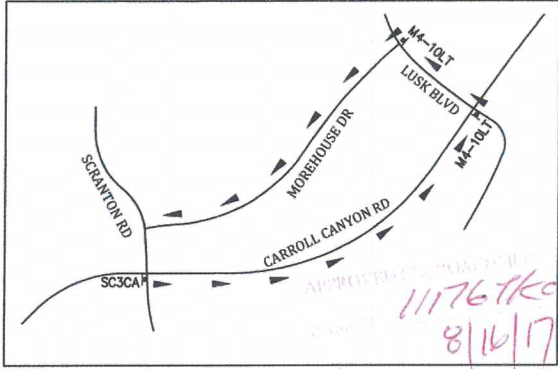
**APPROVED**  
**TRAFFIC CONTROL PLAN**  
MAY 01 2018  
CITY OF SAN DIEGO  
Development Services  
Permitting Division  
Safety Section



MATCHLINE SEE SHEET 3



DETOUR MAP (NOT TO SCALE)



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AUG 16 2017  
CALTRANS-PERMIT

WORK HOURS: \_\_\_\_\_ TO \_\_\_\_\_ PHASE C - 1

**PROJECT NAME:** TL23071 – Sycamore Canyon Substation To  
Penasquitos Substation – 230 KV Underground

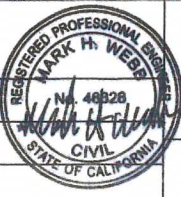
DATE: 7/12/2017  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
Gail McMorran  
President  
2304 EAST EL NORTE PARKWAY, SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 460-2917  
CELL: (760) 419-3738

**NV5**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 858.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
MISC/POTHOLE#: \_\_\_\_\_  
TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1208-E7  
DRAWN FOR: CALTRANS



SHEET 2 OF 16

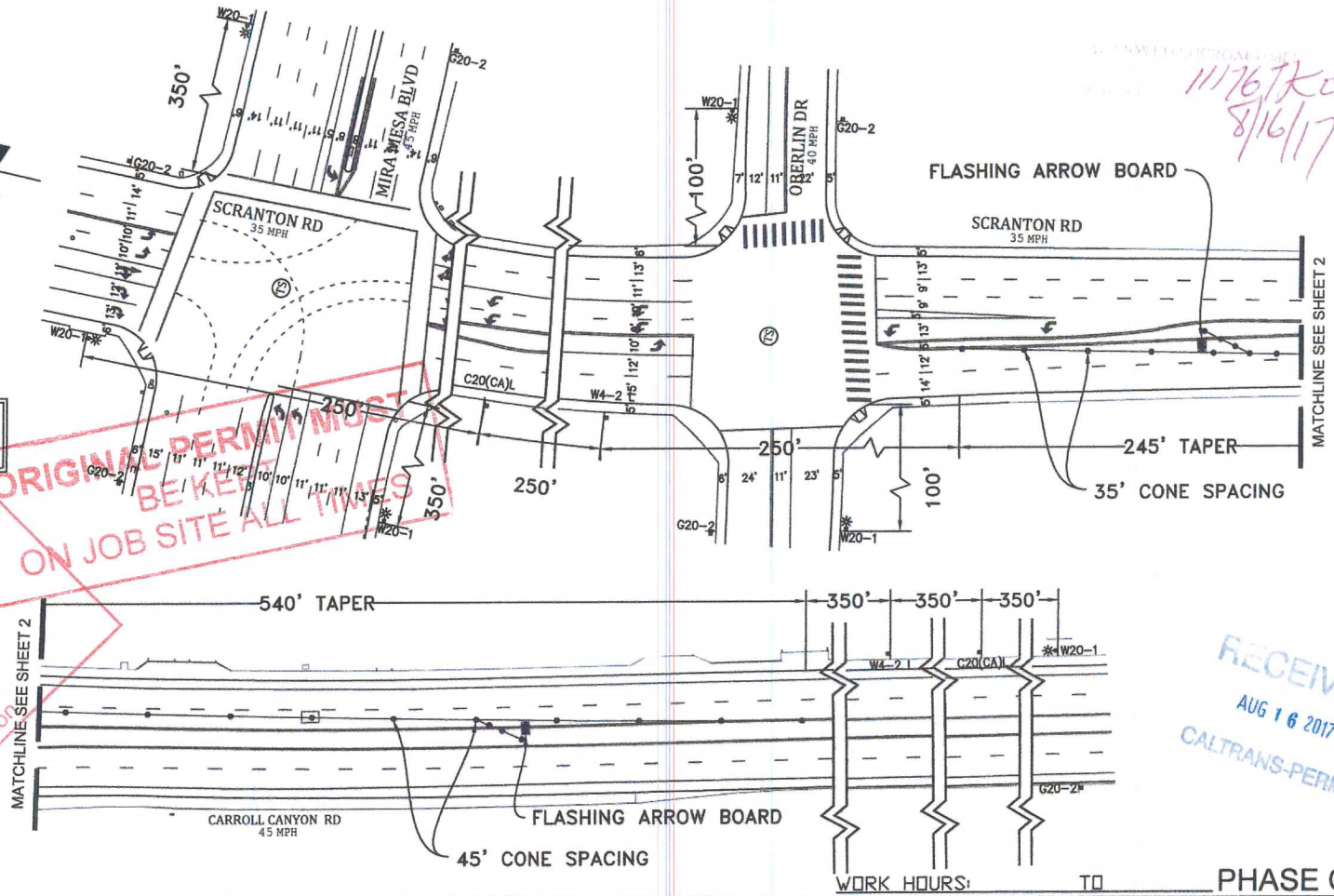
SCALE 1"=60'

11176 JK0489  
8/16/17

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

ORIGINAL PERMIT MUST BE KEPT ON JOB SITE ALL TIMES

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TRAFFIC CONTROL PERMIT  
AUG 14 2018  
CITY OF SAN DIEGO  
Development Services  
Engineering Division  
Traffic Safety Section



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CALTRANS-PERMIT

WORK HOURS: TO PHASE C - 1

PROJECT NAME: TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 7/12/2017  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
Gail McMorrin  
President  
2304 EAST EL NORTE PARKWAY, SUITE C  
ESCONDIDO, CA 92027  
PHONE (760) 480-2347  
CELL (760) 419-3738

**NV5**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92126  
P: 858.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
MISC/POTHoles#: \_\_\_\_\_  
TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1208-E  
DRAWN FOR: CALTRANS



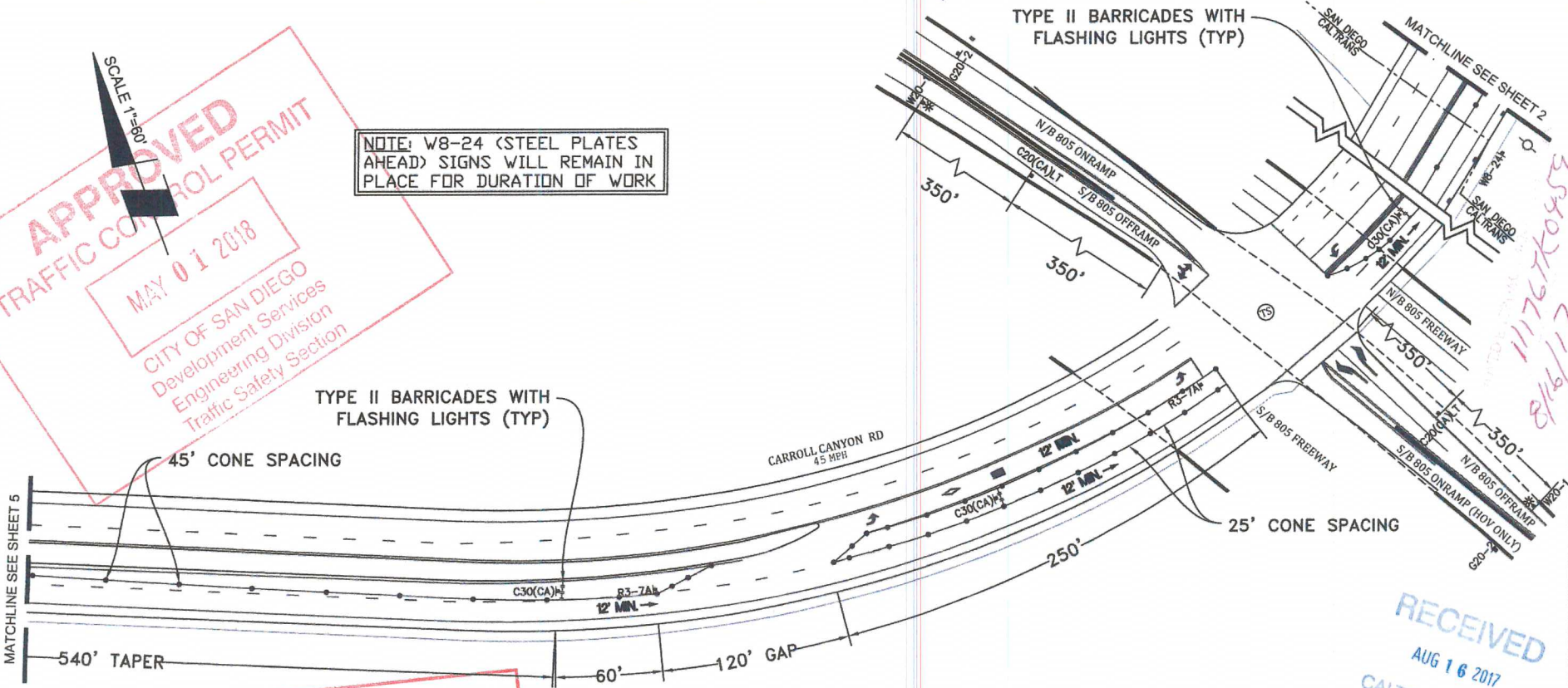
SHEET 3 OF 16

SCALE 1"=50'

**APPROVED**  
TRAFFIC CONTROL PERMIT  
MAY 01 2018

CITY OF SAN DIEGO  
Development Services  
Engineering Division  
Traffic Safety Section

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK



**ORIGINAL PERMIT MUST BE KEPT ON JOB SITE ALL TIMES**

RECEIVED  
AUG 16 2017  
CALTRANS-PERMIT

1117670459  
8/16/17

WORK HOURS: \_\_\_\_\_ TO \_\_\_\_\_ PHASE C - 1

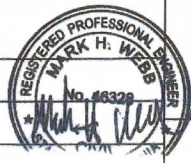
PROJECT NAME: TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 7/12/2017  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

AIRX SURVEYORS, INC.  
Gail McMorrin  
President  
2534 EAST EL NORTE PARKWAY, SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 450-2347  
CELL: (760) 419-3735

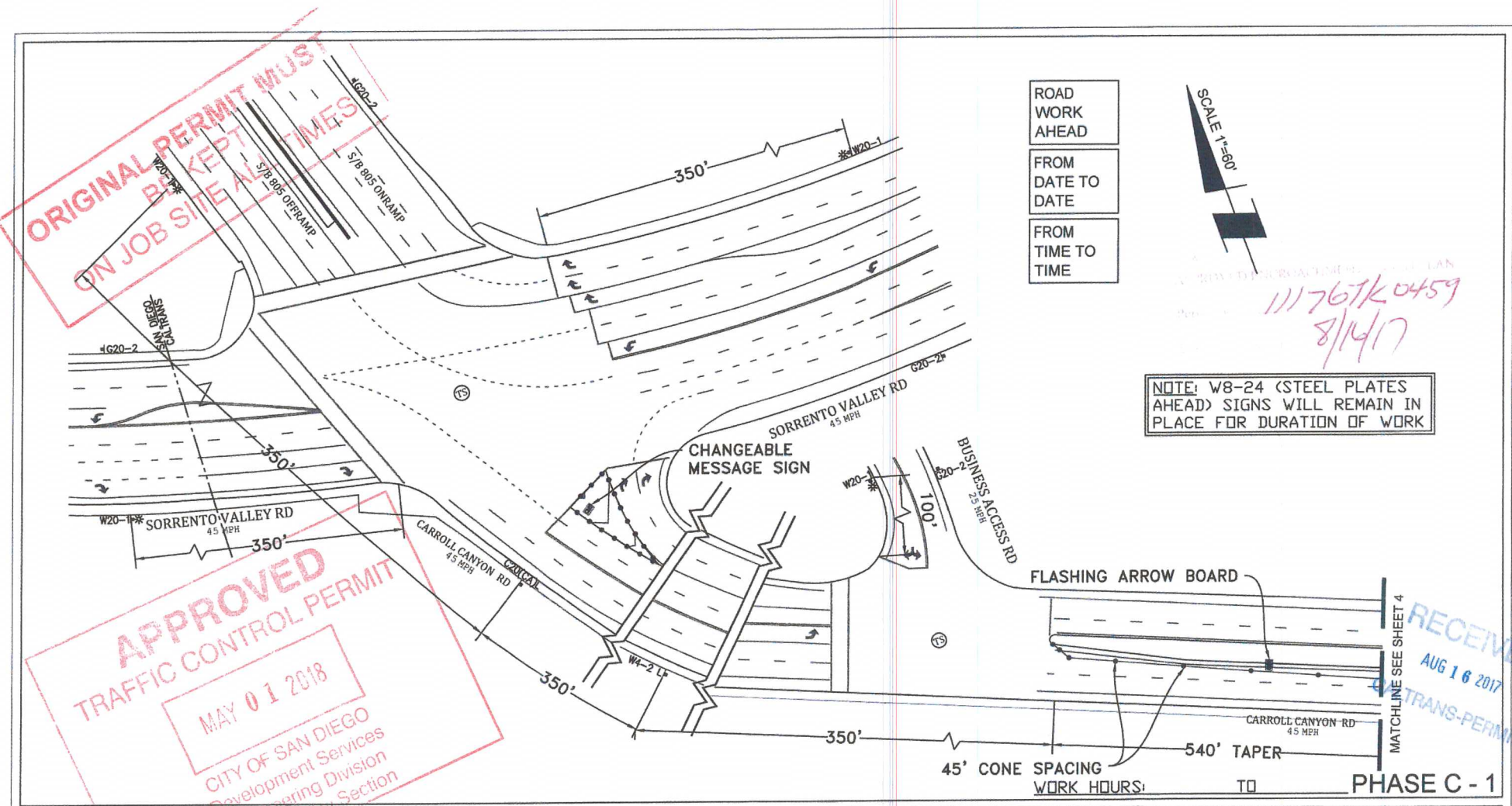
NV5  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 858.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
MISC/POTHLES#: \_\_\_\_\_  
THOMAS GRID#: 1208-E7  
DRAWN FOR: CALTRANS  
TYPE OF WORK: TRENCHING / CONDUIT

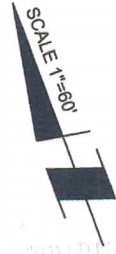


SHEET 4 OF 16





ROAD WORK AHEAD  
 FROM DATE TO DATE  
 FROM TIME TO TIME



111767K 0459  
 8/14/17

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

ORIGINAL PERMIT MUST BE KEPT ON JOB SITE AT ALL TIMES

APPROVED TRAFFIC CONTROL PERMIT  
 MAY 01 2018  
 CITY OF SAN DIEGO  
 Development Services  
 Engineering Division  
 Engineering Section

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 AUG 16 2017  
 TRANS-PERMIT

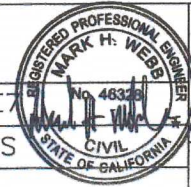
PROJECT NAME: TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

AIRX SURVEYORS, INC.  
 Gail McMorrin  
 President  
 2304 EAST EL NORTE PARKWAY, SUITE C  
 ESCOBEDO, CA 92027  
 PHONE: (760) 490-2247  
 CELL: (760) 419-3738

NIV5  
 15092 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92128  
 P. 858.385.0500 WWW.NIV5.COM

AIRX JOB#: X160218  
 MISC/POTHOLE#:   
 TYPE OF WORK: TRENCHING / CONDUIT

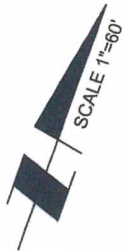
THOMAS GRID#: 1208-E7  
 DRAWN FOR: CALTRANS



DATE: 7/12/2017  
 DESIGNED: Clint Jones  
 CHECKED BY: Mark Webb

SHEET 5 OF 16

PHASE C - 1

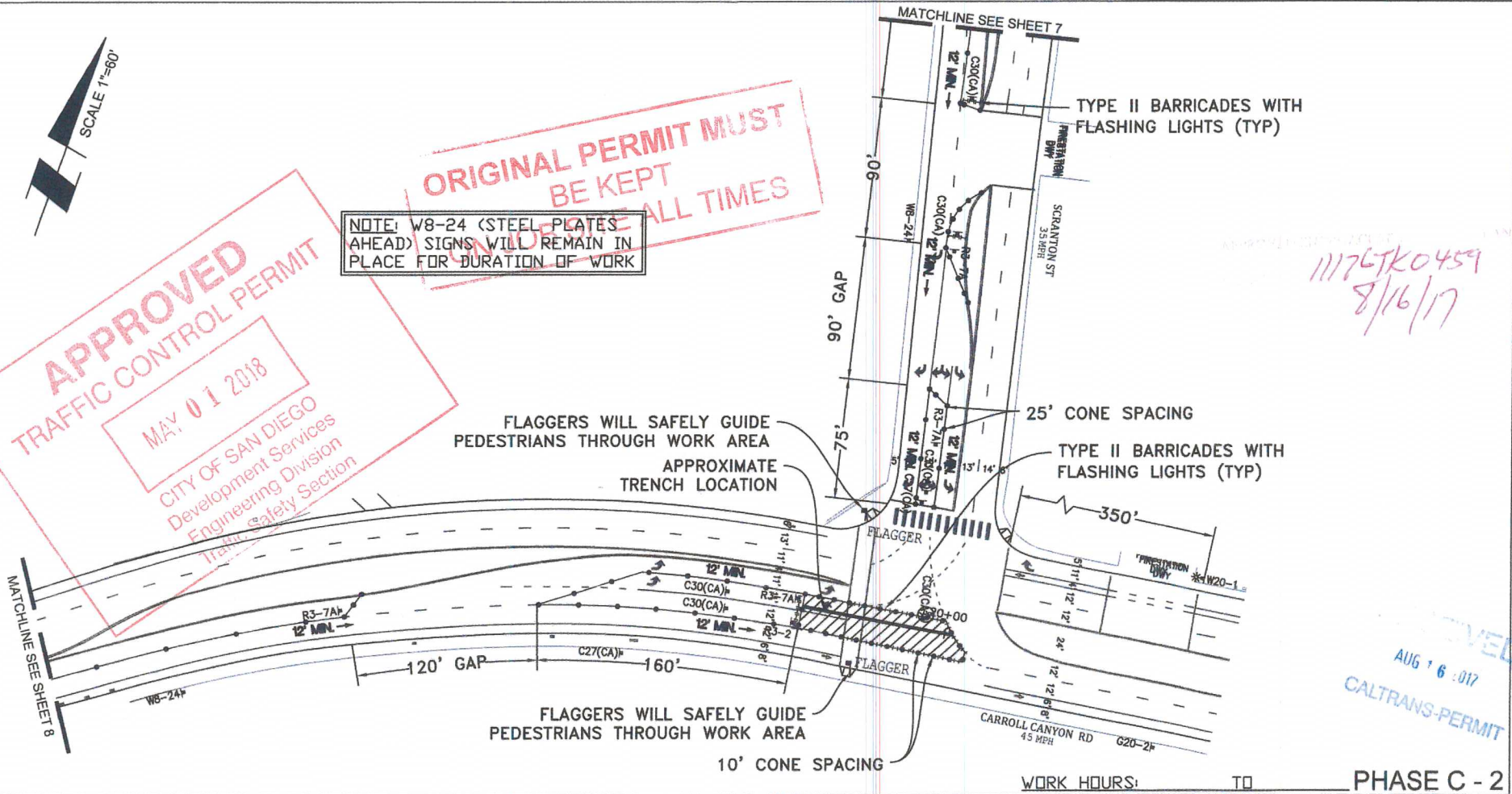


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NOTE: W8-24 (STEEL PLATES  
AHEAD) SIGNS WILL REMAIN IN  
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**APPROVED**  
TRAFFIC CONTROL PERMIT  
MAY 01 2018

CITY OF SAN DIEGO  
Development Services  
Engineering Division  
Traffic Safety Section



**APPROVED**  
AUG 16 2017  
CALTRANS-PERMIT

WORK HOURS: \_\_\_\_\_ TO \_\_\_\_\_ PHASE C - 2

**PROJECT NAME:** TL23071 - Sycamore Canyon Substation To  
Penasquitos Substation - 230 KV Underground

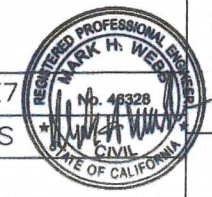
DATE: 7/12/2017  
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**AIRX** SURVEYORS, INC.  
Gail McMorrان  
President  
2334 EAST EL NORTE PARKWAY, SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 493-2347  
CELL: (760) 419-3728

**NV5**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 858.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
MISC/POTHOLE#: \_\_\_\_\_  
TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1208-E7  
DRAWN FOR: CALTRANS



SHEET 6 OF 16

SCALE 1"=60'

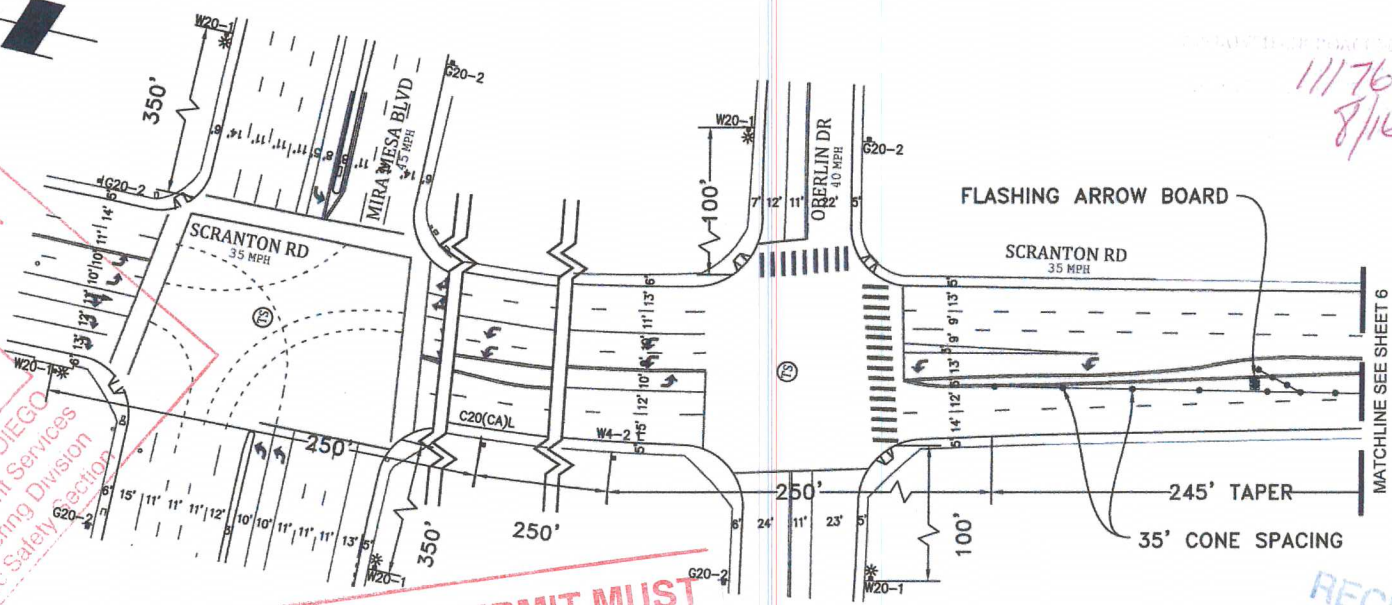
**APPROVED**  
**TRAFFIC CONTROL PERMIT**  
 MAJ 01 2018

CITY OF SAN DIEGO  
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**ORIGINAL PERMIT MUST BE KEPT ON JOB SITE ALL TIMES**

11176JK4159  
 8/16/17



WORK HOURS: \_\_\_\_\_ TO \_\_\_\_\_ PHASE C - 2

**RECEIVED**  
 AUG 16 2017  
 CALTRANS-PERMIT

**PROJECT NAME:** TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 7/12/2017  
 DESIGNED: Clint Jones  
 CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
 Gail McMorrin  
 President  
 2334 EAST EL NORTE PARKWAY, SUITE C  
 ESCOBEDO, CA 92027  
 PHONE: (760) 859-2347  
 CELL: (760) 419-3728

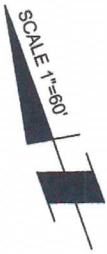
**NV5**  
 15092 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92128  
 P. 858.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
 MISC/POTHoles#: \_\_\_\_\_  
 TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1208-E7  
 DRAWN FOR: CALTRANS



**SHEET 7 OF 16**

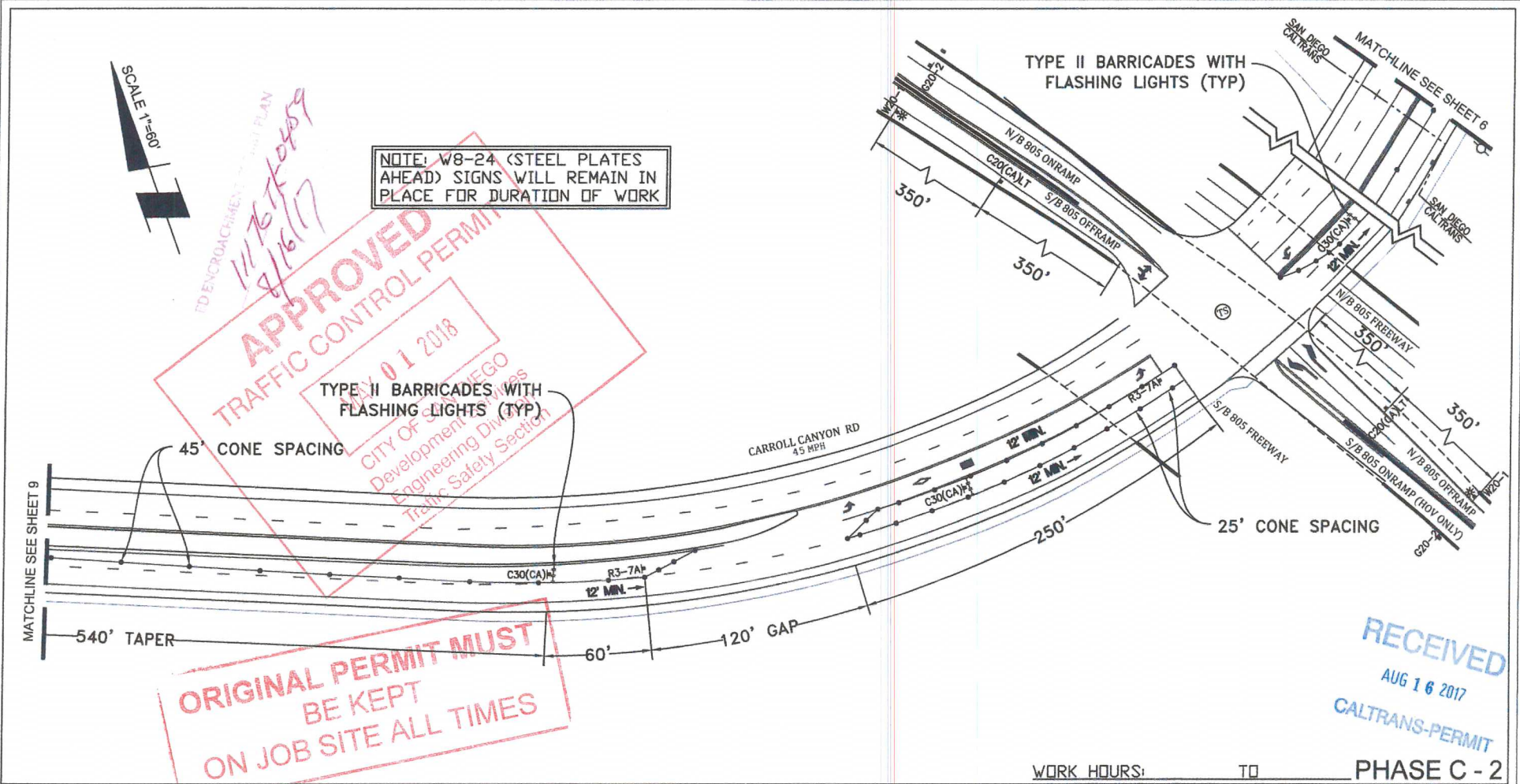


TD ENCROACHMENT PERMIT PLAN  
11/16/17  
8/16/17

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

**APPROVED**  
TRAFFIC CONTROL PERMIT  
MAY 01 2018  
CITY OF SAN DIEGO  
Development Services  
Engineering Division  
Traffic Safety Section

**ORIGINAL PERMIT MUST BE KEPT ON JOB SITE ALL TIMES**



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AUG 16 2017  
CALTRANS-PERMIT

WORK HOURS: \_\_\_\_\_ TO \_\_\_\_\_ PHASE C - 2

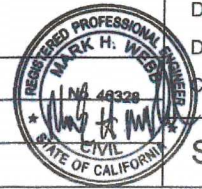
**PROJECT NAME:** TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 7/12/2017  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

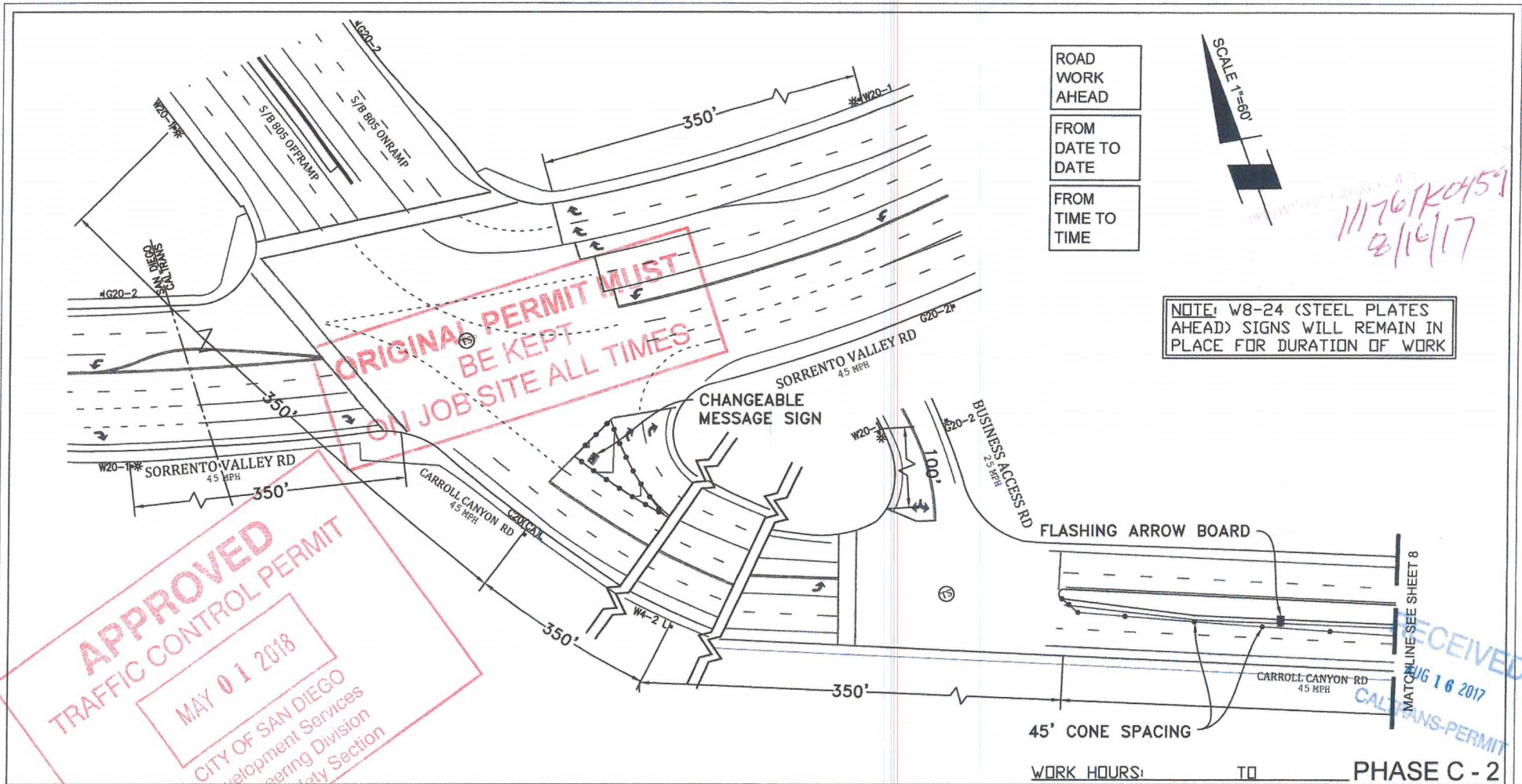
**AIRX** SURVEYORS, INC.  
Gail McMorran  
President  
2534 EAST EL NORTE PARKWAY, SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 485-2347  
CELL: (760) 419-3728

**NV5**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P. 858.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
MISC/POTHOLE#: \_\_\_\_\_  
THOMAS GRID#: 1208-E7  
DRAWN FOR: CALTRANS  
TYPE OF WORK: TRENCHING / CONDUIT



**SHEET 8 OF 16**



ROAD WORK AHEAD  
 FROM DATE TO DATE  
 FROM TIME TO TIME

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

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 TRAFFIC CONTROL PERMIT  
 MAY 01 2018  
 CITY OF SAN DIEGO  
 Development Services  
 Engineering Division  
 Engineering Safety Section

WORK HOURS: \_\_\_\_\_ TO \_\_\_\_\_ **PHASE C - 2**

**PROJECT NAME:** TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

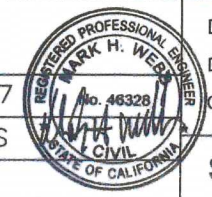
DATE: 7/12/2017  
 DESIGNED: Clint Jones  
 CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
 Gail McMoran  
 President  
 2534 EAST EL NORTE PARKWAY, SUITE C  
 ESCONDIDO, CA 92027  
 PHONE: (760) 485-2347  
 CELL: (760) 419-3708

**NV5**  
 15092 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92123  
 P: 858.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
 MISC/POTHOLE#: \_\_\_\_\_  
 TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1208-E7  
 DRAWN FOR: CALTRANS



**SHEET 9 OF 16**

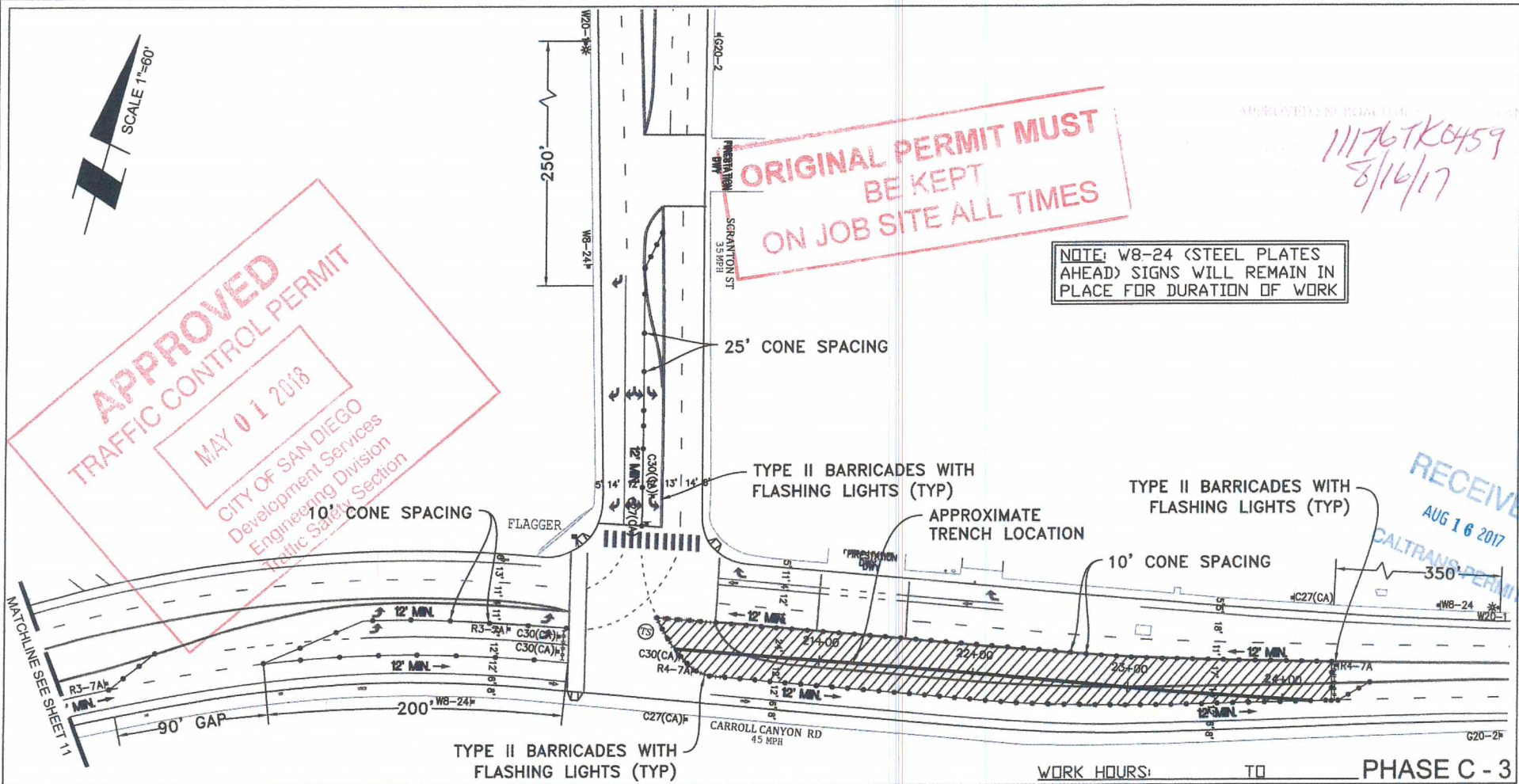


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MAY 01 2018

CITY OF SAN DIEGO  
Development Services  
Engineering Division  
Traffic Safety Section



1176TK0459

8/16/17

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

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AUG 16 2017

CALTRANS PERMIT

**PROJECT NAME:** TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 7/12/2017  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
Gail McMorrin  
President  
2534 EAST EL NORTE PARKWAY, SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 480-2347  
CELL: (760) 419-3738

**N|V|5**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 658.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
MISC/POTHOLES#: \_\_\_\_\_  
TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1208-E7  
DRAWN FOR: CALTRANS



**SHEET 10 OF 16**

SCALE 1"=60'

44767K0459  
8/16/17

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TRAFFIC CONTROL PERMIT  
MAY 01 2018

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

TYPE II BARRICADES WITH FLASHING LIGHTS (TYP)

45' CONE SPACING

CARROLL CANYON RD  
45 MPH

TYPE II BARRICADES WITH FLASHING LIGHTS (TYP)

25' CONE SPACING

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CALTRANS-PERMIT

WORK HOURS: \_\_\_\_\_ TO \_\_\_\_\_ PHASE C - 3

PROJECT NAME: TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

DATE: 7/12/2017  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

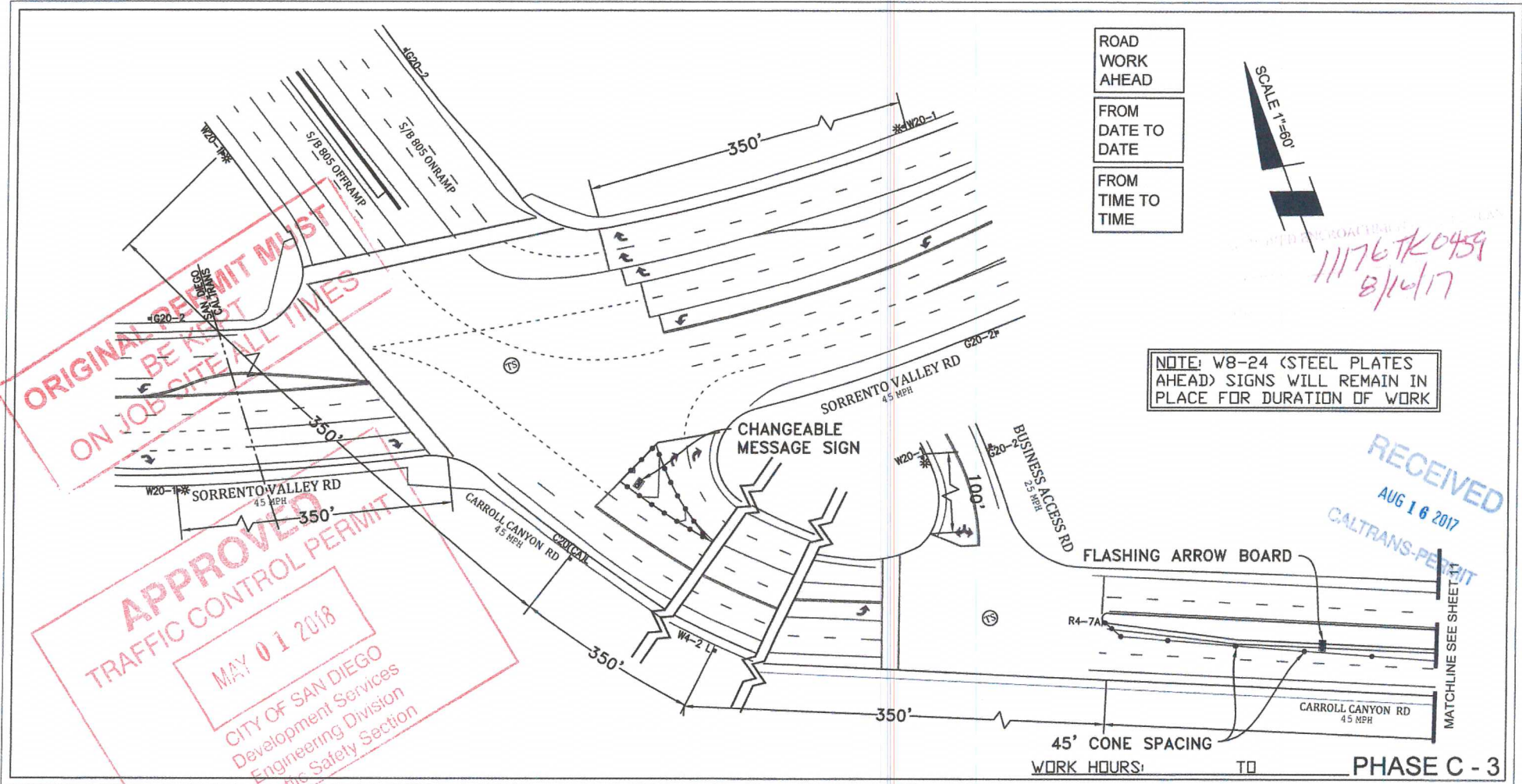
**AIRX** SURVEYORS, INC.  
Gail McMorran  
President  
2534 EAST EL NORTE PARKWAY, SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 490-2847  
CELL: (760) 419-3738

**N|V|5**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 658.385.0500 WWW.NV5.COM

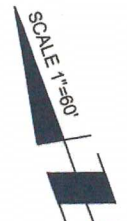
AIRX JOB#: X160218  
MISC/POTHOLES#: \_\_\_\_\_  
THOMAS GRID#: 1208-E7  
DRAWN FOR: CALTRANS  
TYPE OF WORK: TRENCHING / CONDUIT



SHEET 11 OF 16



ROAD WORK AHEAD  
 FROM DATE TO DATE  
 FROM TIME TO TIME



11176 TK 0459  
 8/16/17

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

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 AUG 16 2017  
 CALTRANS-PERMIT

ORIGINAL PERMIT MUST BE KEPT ON JOB SITE ALL TIMES  
 APPROVED TRAFFIC CONTROL PERMIT  
 MAY 01 2018  
 CITY OF SAN DIEGO  
 Development Services  
 Engineering Division  
 Traffic Safety Section

WORK HOURS: TO PHASE C - 3

PROJECT NAME: TL23071 - Sycamore Canyon Substation To  
 Penasquitos Substation - 230 KV Underground

DATE: 7/12/2017  
 DESIGNED: Clint Jones  
 CHECKED BY: Mark Webb

AIRX SURVEYORS, INC.  
 Gail McMorran  
 President  
 2534 EAST EL NORTE PARKWAY, SUITE C  
 ESCONDIDO, CA 92027  
 PHONE: (760) 485-2347  
 CELL: (760) 419-3739

NV5  
 15092 AVENUE OF SCIENCE, SUITE 200  
 SAN DIEGO, CA 92128  
 P: 658.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
 THOMAS GRID#: 1208-E7  
 MISC/POTHoles#: DRAWN FOR: CALTRANS



TYPE OF WORK: TRENCHING / CONDUIT

SHEET 12 OF 16





**ORIGINAL PERMIT MUST  
BE KEPT  
ON JOB SITE ALL TIMES**

**APPROVED**

**TRAFFIC CONTROL PERMIT**

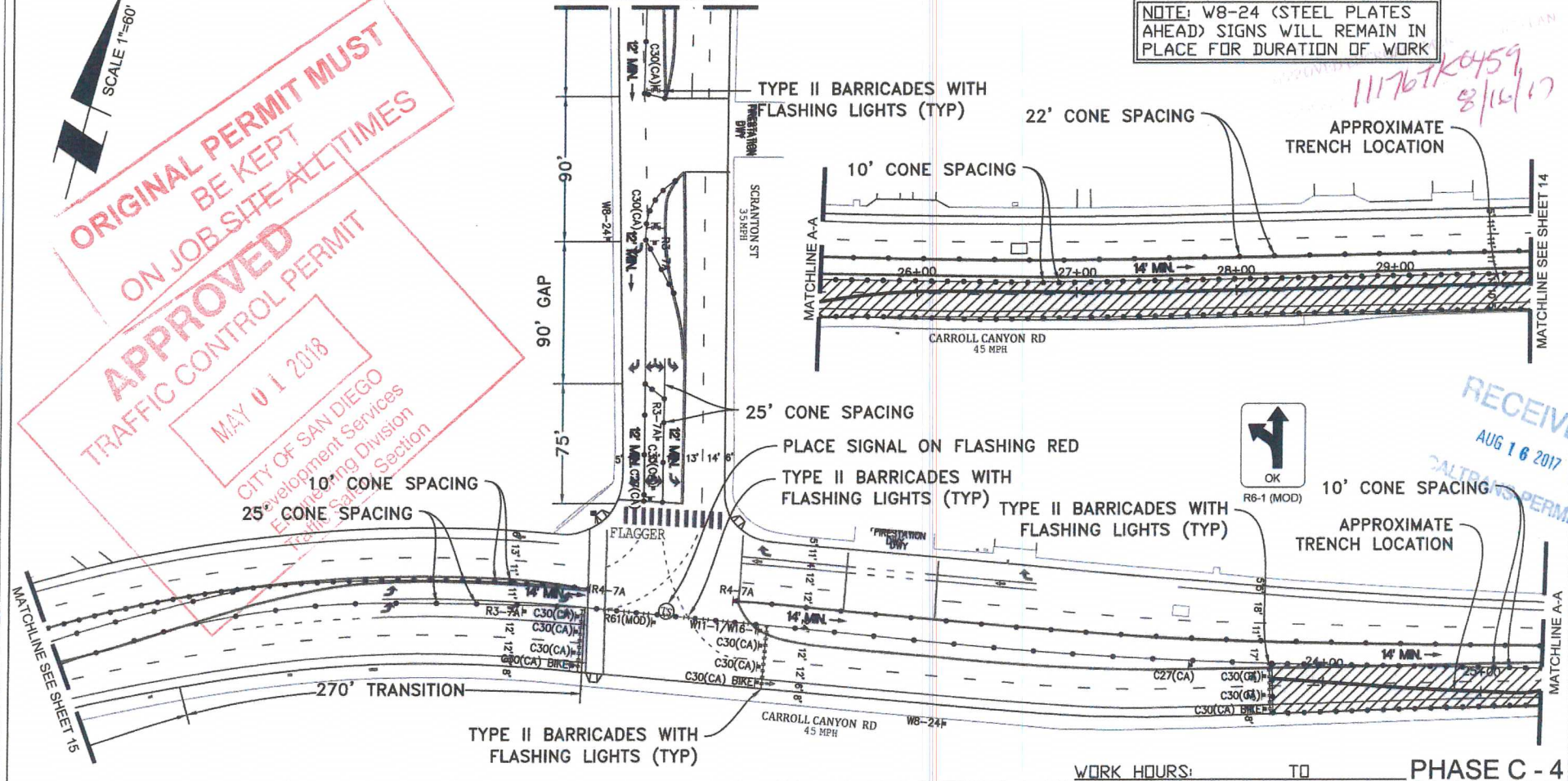
MAY 01 2018

CITY OF SAN DIEGO  
Engineering Services  
Traffic Safety Section

MATCHLINE SEE SHEET 14

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

11176TK0459  
8/16/17



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AUG 16 2017  
CALTRANS PERMIT

WORK HOURS: TO PHASE C - 4

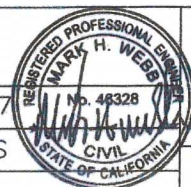
PROJECT NAME: TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

**AIRX** SURVEYORS, INC.  
Gail McMorran  
President  
2534 EAST EL NORTE PARKWAY, SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 480-2347  
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**N|V|5**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 858.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
MISC/POTHOLES#:  
TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1208-E7  
DRAWN FOR: CALTRANS



DATE: 7/12/2017  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb  
SHEET 13 OF 16

NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

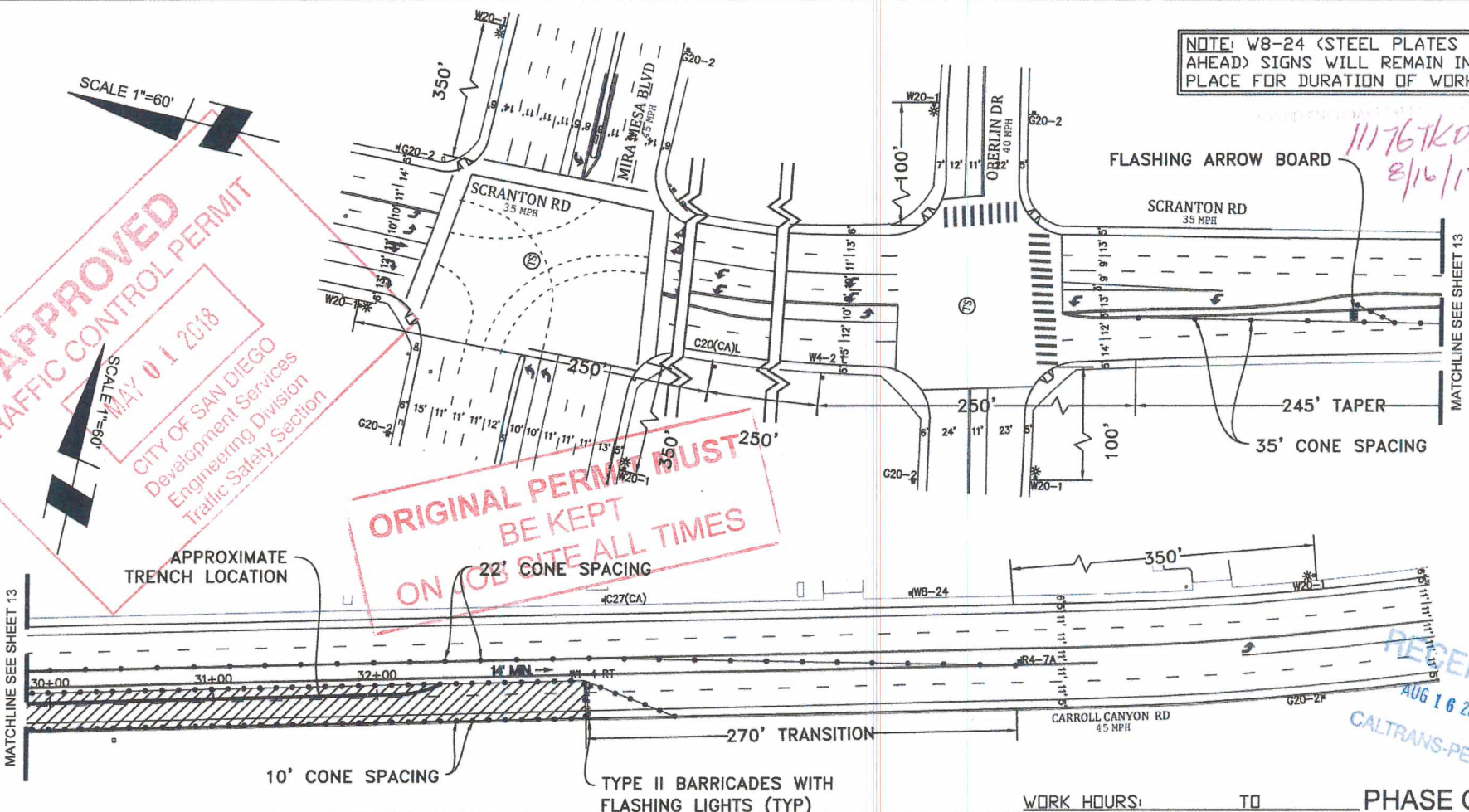
11176TK0459  
8/16/17

SCALE 1"=60'

SCALE 1"=60'

**APPROVED**  
TRAFFIC CONTROL PERMIT  
MAY 01 2018  
CITY OF SAN DIEGO  
Development Services  
Engineering Division  
Traffic Safety Section

**ORIGINAL PERMIT MUST BE KEPT ON JOB SITE ALL TIMES**



MATCHLINE SEE SHEET 13

MATCHLINE SEE SHEET 13

RECEIVED  
AUG 16 2017  
CALTRANS-PERMIT

WORK HOURS: \_\_\_\_\_ TO \_\_\_\_\_ PHASE C - 4

PROJECT NAME: TL23071 - Sycamore Canyon Substation To  
Penasquitos Substation - 230 KV Underground

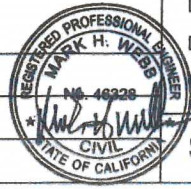
DATE: 7/12/2017  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
Gail McMorrin  
President  
2504 EAST EL NORTE PARKWAY, SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 450-2347  
CELL: (760) 419-3738

**NV5**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P. 659.385.0500 WWW.NV5.COM

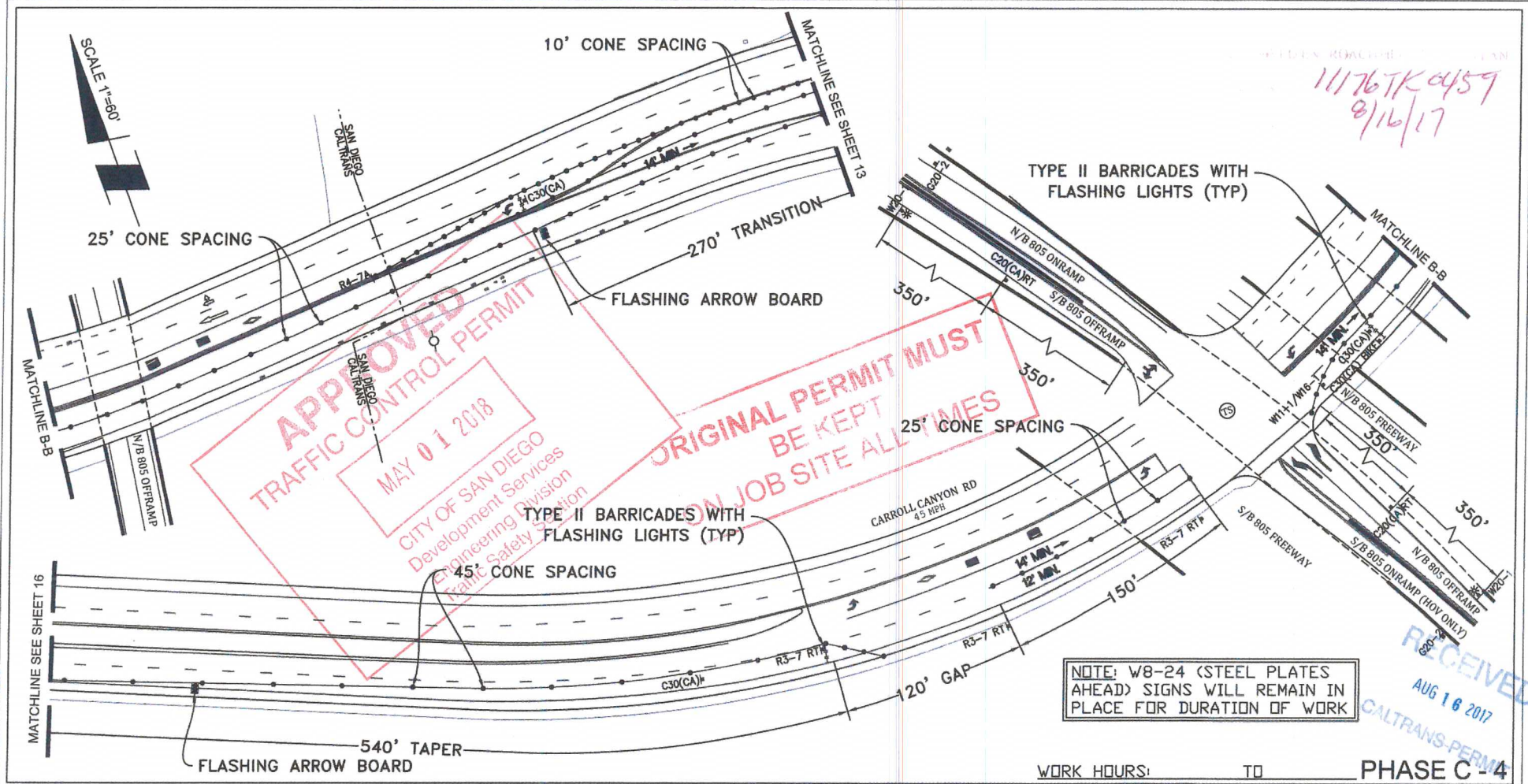
AIRX JOB#: X160218  
MISC/POTHOLE#: \_\_\_\_\_  
TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1208-E7  
DRAWN FOR: CALTRANS



SHEET 14 OF 16

11176TK 0459  
8/16/17



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CALTRANS-PERMIT

WORK HOURS: \_\_\_\_\_ TO \_\_\_\_\_ PHASE C-4

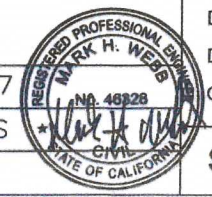
**PROJECT NAME:** TL23071 - Sycamore Canyon Substation To Penasquitos Substation - 230 KV Underground

**AIRX** SURVEYORS, INC.  
Gail McMorran  
President  
2534 EAST EL NORTE PARKWAY, SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 480-2347  
CELL: (760) 419-3738

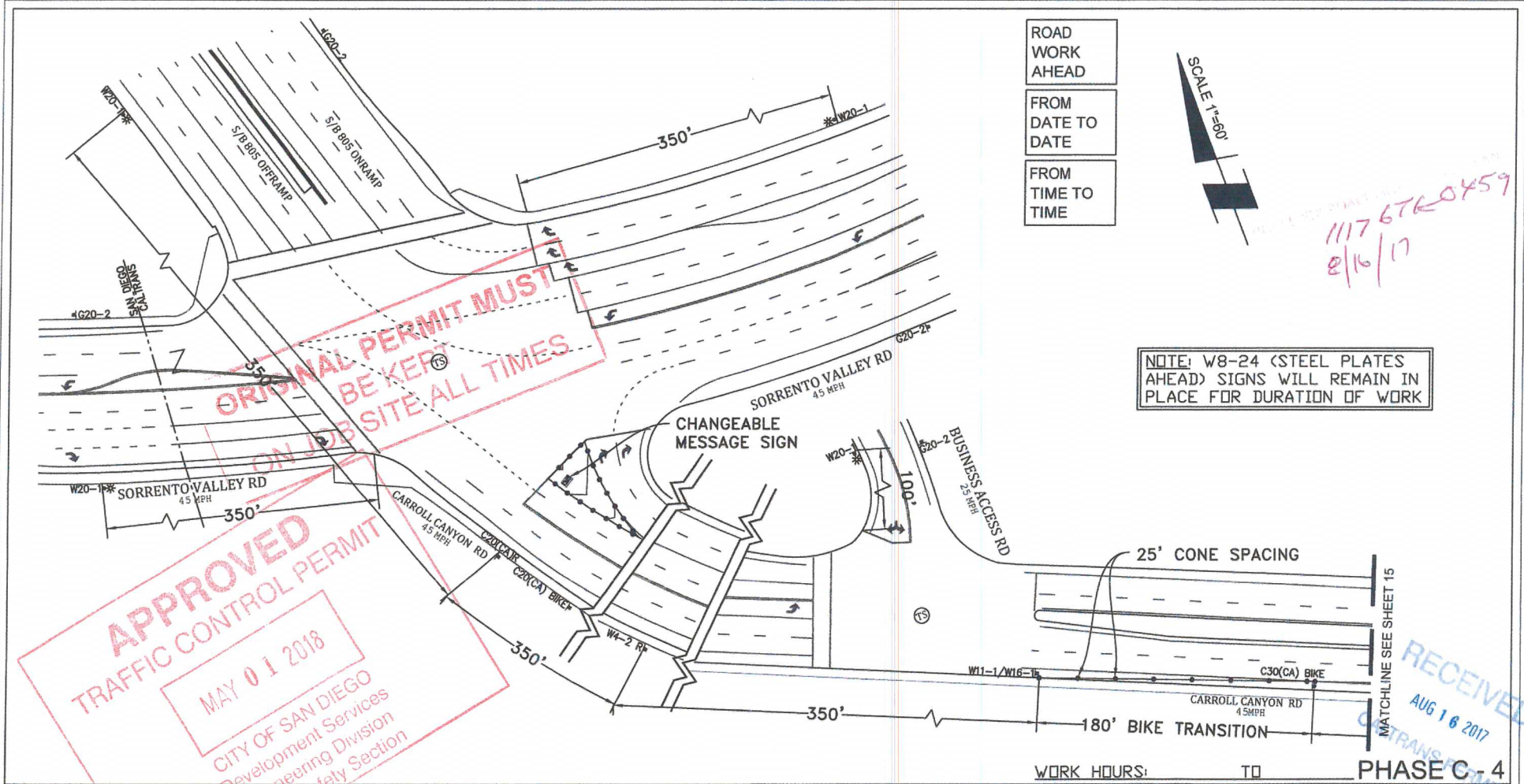
**NV5**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P. 858.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
MISC/POTHOLE#: \_\_\_\_\_  
TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1208-E7  
DRAWN FOR: CALTRANS



DATE: 7/12/2017  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb  
SHEET 15 OF 16



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CITY OF SAN DIEGO  
Development Services  
Engineering Division  
Traffic Safety Section

WORK HOURS: TO PHASE C - 4

**PROJECT NAME:** TL23071 - Sycamore Canyon Substation To  
Penasquitos Substation - 230 KV Underground

DATE: 7/12/2017  
DESIGNED: Clint Jones  
CHECKED BY: Mark Webb

**AIRX** SURVEYORS, INC.  
Gail McMorran  
President  
2534 EAST EL NORTE PARKWAY, SUITE C  
ESCONDIDO, CA 92027  
PHONE: (760) 483-2347  
CELL: (760) 419-3739

**NV5**  
15092 AVENUE OF SCIENCE, SUITE 200  
SAN DIEGO, CA 92128  
P: 658.385.0500 WWW.NV5.COM

AIRX JOB#: X160218  
MISC/POTHoles#:   
TYPE OF WORK: TRENCHING / CONDUIT

THOMAS GRID#: 1208-E7  
DRAWN FOR: CALTRANS



**SHEET 16 OF 16**