



County of San Diego

DEPARTMENT OF PUBLIC WORKS
TRAFFIC ENGINEERING SECTION

APPLICATION FOR TRAFFIC CONTROL PERMIT -- ATTACHED PLAN
(FLAGGING & INCLUDES NIGHT WORK)

(type of traffic control: flag, shift, etc.)

DPW2018-RWTCP-00655

County of San Diego
DPW / Traffic Engineering (MS 0332)
5510 Overland Ave, Suite 410
San Diego, CA 92123-1239

telephone/voice mail: (858) 694-3863
secretary: (858) 694-3850
fax: (858) 694-3928
e-mail:

DPWTrafficControl.permit@sdcounty.ca.gov

EXTENTION PREVIOUS PERMITS: DPW2018-RWTCP-00205,
DPW2017-RWTCP-01037 & DPW2017-RWTCP-00229

ENCROACHMENT/EXCAVATION/CONSTRUCTION PERMIT # DPW2017-RWEXCP-71191

Applicant Information

Company: NV5 / SAN DIEGO GAS & ELECTRIC
Agent/Applicant: ALBERT DECHICO
Agent Phone Number: 760-644-8014 Agent Email Address: _____
Agent Mailing Address: 15092 AVENUE OF SCIENCE, SUITE 200
City: SAN DIEGO State: CA Zip Code: 92128
Reason for Traffic Control: FOR PROPOSED TL23071 ELECTRICAL TRANSMISSION LINE (8" AND 2" DUCT BANK)

Start Date: 07/02/2018

Start Time: See Notes

Finish Date: 08/17/2018

End Time: See Notes

It is requested that a permit be granted for traffic control on the following street/streets:

STREET 1 POMERADO RD From Street BEGIN CMR To SAN DIEGO CITY LIMITS

COMMUNITY SAN DIEGO TB 1209-F6 & G6 Thomas Bros. Map Page and Grid # _____

Signature on Application

(Agent's or Applicant's Signature)

06/26/2018

(Date)

See Attached Plan (s) and Traffic Control Notes

This request is approved.

Director, Department of Public Works

By [Signature]
(For Road Commissioner)

06/27/18
(Date)

- Copy -



County of San Diego

DEPARTMENT OF PUBLIC WORKS
TRAFFIC ENGINEERING SECTION

APPLICATION FOR TRAFFIC CONTROL PERMIT -- ATTACHED PLAN (FLAGGING), TCP-4,
TCP-9 & TCP-54

(type of traffic control: flag shift, etc.)

DPW2018-RWTCP-00205

County of San Diego
DPW / Traffic Engineering (MS 0332)
5510 Overland Ave, Suite 410
San Diego, CA 92123-1239

telephone/voice mail: (858) 694-3863
secretary: (858) 694-3850
fax: (858) 694-3928

e-mail:
DPWTrafficControl.permit@sdcounty.ca.gov

EXTENSION PREVIOUS PERMITS: DPW2017-RWTCP-01037
& DPW2017-RWTCP-00229

ENCROACHMENT/EXCAVATION/CONSTRUCTION PERMIT # DPW2017-RWEXCP-71191

Applicant Information

Company: NV5 / SAN DIEGO GAS & ELECTRIC
Agent/Applicant: ALBERT DECHICO
Agent Phone Number: 760-644-8014 Agent Email Address: _____
Agent Mailing Address: 15092 AVENUE OF SCIENCE, SUITE 200
City: SAN DIEGO State CA Zip Code: 92128
Reason for Traffic Control: TO TRENCH FOR PROPOSED TL23071 ELECTRICAL TRANSMISSION LINE (8" AND 2" DUCT BANK)

Start Date: 04/02/2018

Start Time: SEE ATTACHED TC NOTES

Finish Date: 06/29/2018

End Time: SEE ATTACHED TC NOTES

It is requested that a permit be granted for traffic control on the following street/streets:

STREET 1 POMERADO RD From Street BEGIN CMR To SAN DIEGO CITY LIMITS

COMMUNITY SAN DIEGO TB 1209-F6 & G6 Thomas Bros Map Page and Grid # _____

Signature on Application

(Agent's or Applicant's Signature)

03/12/2018

(Date)

See Attached Plan (s) and Traffic Control Notes

This request is approved.

Director, Department of Public Works

By Joubert Aguado
(For Road Commissioner)

04/27/2018
(Date)

*TC NOTES MODIFIED TO include DAY HOURS on SIGNAGE. SEE NOTES



**COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
TRAFFIC ENGINEERING SECTION**

APPLICATION FOR TRAFFIC CONTROL PERMIT (Flagging), TCP-4, TCP-9 & TCP-54

Type of traffic control: flag, shift, etc.

County of San Diego
DPW Traffic Engineering Section
Room 470, MS 0334
5510 Overland Ave, Suite 410
San Diego, CA 92123-1239

Telephone/voice mail: (858) 694-3863
Secretary (858) 694-3850
Fax (858) 694-3928

DPWTRAFFICCONTROL.PERMIT@SDCOUNTY.CA.GOV

Encroachment/excavation/construction permit # DPW2017-RWEXCP-71191

Applicant Information

Company NV5 / SDGE

Agent/applicant Albert Dechico

Last Name First

Agent Telephone # 760-644-8014 Agent Fax # _____

Agent Mailing Address: 15092 Avenue of Science, Ste 200, San Diego, CA 92128

Street Name and Number City State Zip Code

Agent E-mail Address ADechico@seucontractor.com

Reason for Traffic Control: To trench for proposed TL23071 Electrical Transmission Line (8" and 2" Duct Bank)

Start Date: 7/1/2018 Start Time: 10:00P a.m. / p.m.

Finish Date: 10/1/2018 End Time: 5:00A a.m. / p.m.

It is requested that a permit be granted for traffic control on the following street/streets:

STREET 1 POMERADO RD From Street BEGIN CMR To SAN DIEGO CITY LIMITS

STREET 2 _____ From Street _____ To _____

COMMUNITY SAN DIEGO Thomas Brothers Map Page and Grid # 1209-F6 AND G6

Signed  Date 6/26/2018

Agent or Applicant Date

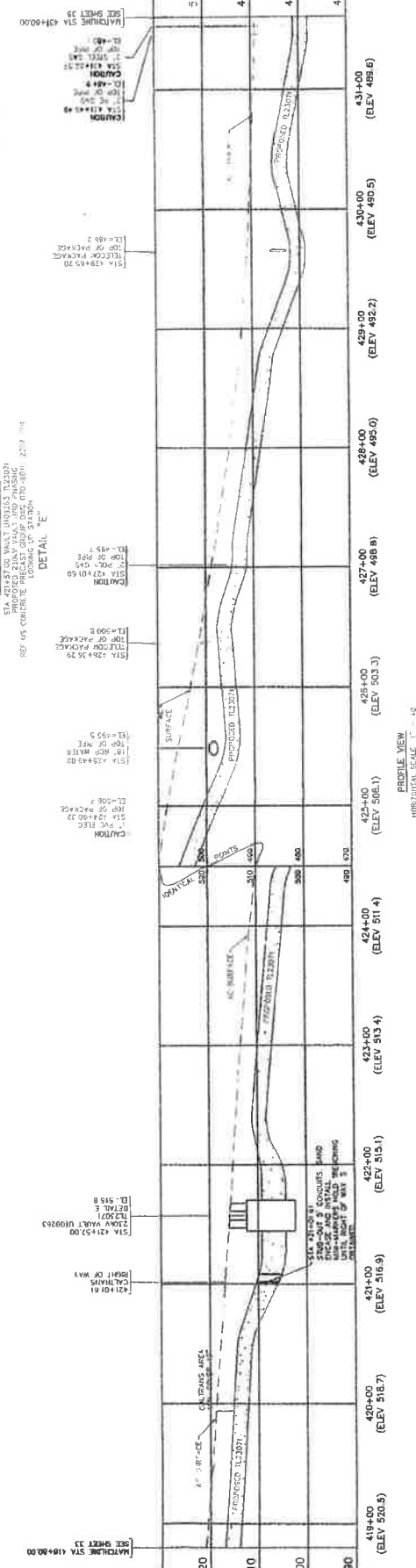
See Attached Plan (s) and Traffic Control Notes

This request is:

APPROVED DENIED

Director, Department of Public Works

By _____
For Road Commissioner



STATION	ELEVATION	DESCRIPTION
418+00	(ELEV 520.5)	START OF UNDERGROUND SEGMENT
420+00	(ELEV 518.7)	
422+00	(ELEV 515.1)	
424+00	(ELEV 511.4)	
426+00	(ELEV 508.1)	
428+00	(ELEV 495.0)	
430+00	(ELEV 492.2)	
432+00	(ELEV 488.6)	
434+00	(ELEV 486.6)	

NVS
 CIVIL ENGINEERING & ARCHITECTURE
 811

DIGALERT
 Call 2 Working Days Before You Dig

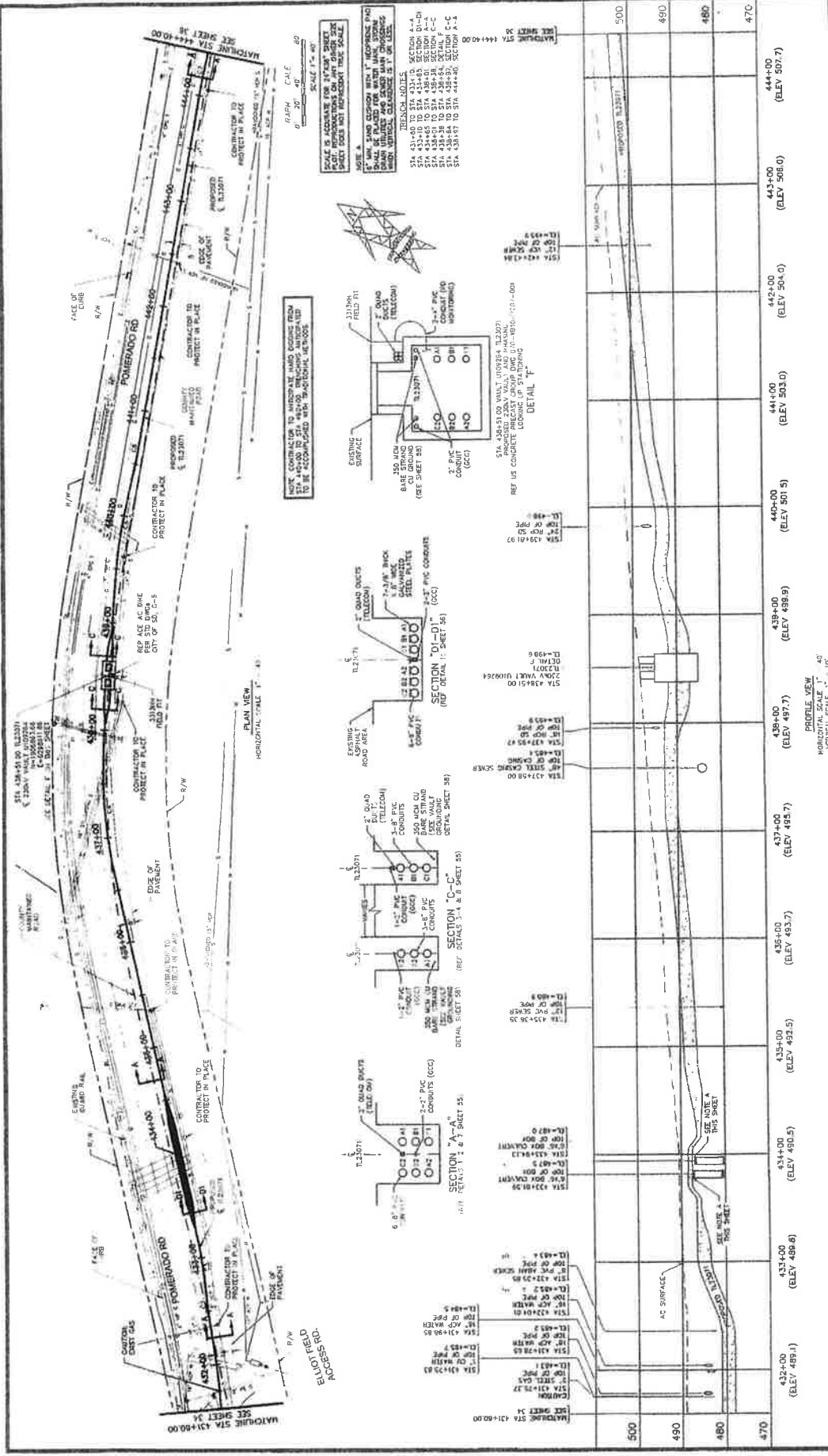
SJGE
 SAN DIEGO GAS & ELECTRIC TRANSMISSION ENGINEERING

PROJECT: Sycamore Canyon Substation to Penasquitos Substation
 250kV UNDERGROUND SEGMENT
 SHEET 34 OF 50

DATE	BY	REVISION

SCALE IS ACCURATE FOR 24" PLAN SHEET BUT PROPORTIONS ON ANY OTHER SIZE SHEET ARE NOT NECESSARILY ACCURATE.
 SHALL BE PLACED FOR WATER MAIN STORAGE WITH VERTICAL CLEARANCE AS TO BE LESS.
 PRECISE NOTES:
 STA 418+00 TO STA 421+00: SEE (ITEM 1) A
 STA 421+00 TO STA 424+00: SEE (ITEM 1) B
 STA 424+00 TO STA 427+00: SEE (ITEM 1) C
 STA 427+00 TO STA 431+00: SEE (ITEM 1) D
 STA 431+00 TO STA 434+00: SEE (ITEM 1) E

NOTE A: ALL CONDUITS SHALL BE 3/4" PVC UNLESS OTHERWISE NOTED.
 NOTE B: ALL CONDUITS SHALL BE INSTALLED WITH 2" MINIMUM COVER UNLESS OTHERWISE NOTED.
 NOTE C: ALL CONDUITS SHALL BE INSTALLED WITH 1" MINIMUM CLEARANCE TO ANY OTHER UTILITY UNLESS OTHERWISE NOTED.
 NOTE D: ALL CONDUITS SHALL BE INSTALLED WITH 1" MINIMUM CLEARANCE TO ANY OTHER UTILITY UNLESS OTHERWISE NOTED.
 NOTE E: ALL CONDUITS SHALL BE INSTALLED WITH 1" MINIMUM CLEARANCE TO ANY OTHER UTILITY UNLESS OTHERWISE NOTED.



STATION	ELEVATION	DESCRIPTION
432+00	(ELEV 495.1)	
434+00	(ELEV 496.6)	
436+00	(ELEV 498.1)	
438+00	(ELEV 499.6)	
440+00	(ELEV 501.1)	
442+00	(ELEV 502.6)	
444+00	(ELEV 504.1)	
446+00	(ELEV 505.6)	
448+00	(ELEV 507.1)	
450+00	(ELEV 508.6)	
452+00	(ELEV 510.1)	
454+00	(ELEV 511.6)	
456+00	(ELEV 513.1)	
458+00	(ELEV 514.6)	
460+00	(ELEV 516.1)	
462+00	(ELEV 517.6)	
464+00	(ELEV 519.1)	
466+00	(ELEV 520.6)	
468+00	(ELEV 522.1)	
470+00	(ELEV 523.6)	

SDGE
SAN DIEGO GAS & ELECTRIC
TRANSMISSION ENGINEERING

SYCAMORE CANYON SUBSTATION
TO PENASQUITOS SUBSTATION
230KV UNDERGROUND SEGMENT

TL23071

PLAN & PROFILE

SCALE: H¹ V¹ 1" = 10' 35' OF 60

DRIVING NUMBER
63422-35

DATE	NO.	BY	CHKD.	APP'D.
2/2/2017	1	J. B. BROWN	M. J. BROWN	
DATE	NO.	BY	CHKD.	APP'D.
1/15/15	1	J. B. BROWN	M. J. BROWN	

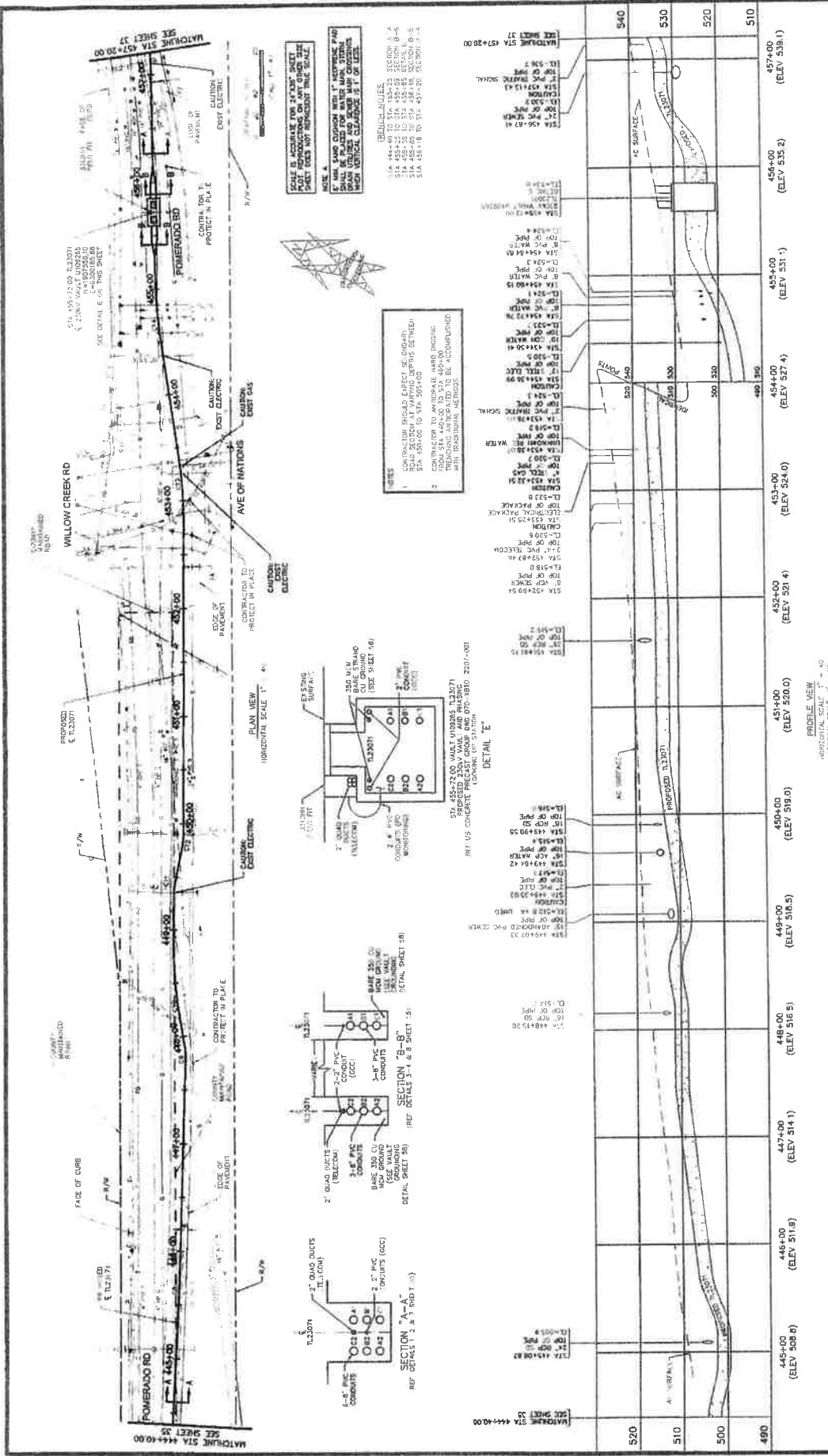
PLAN & PROFILE
HORIZONTAL SCALE 1" = 10'
VERTICAL SCALE 1" = 10'

TRINITY & SUBSTRUCTURES
CONTRACT

SCALE IS ADVISORY FOR FIELD USE ONLY. THIS SHEET IS NOT TO BE USED FOR CONSTRUCTION. ANY CHANGES TO THIS SHEET MUST BE APPROVED BY THE DESIGNER. SCALE IS ADVISORY FOR FIELD USE ONLY. THIS SHEET IS NOT TO BE USED FOR CONSTRUCTION. ANY CHANGES TO THIS SHEET MUST BE APPROVED BY THE DESIGNER.

REVISIONS:

- NO. 1: 2/2/2017, J. B. BROWN, M. J. BROWN
- NO. 2: 1/15/15, J. B. BROWN, M. J. BROWN



STATION	ELEVATION	DESCRIPTION
445+00	(ELEV 508.6)	
446+00	(ELEV 511.8)	
447+00	(ELEV 514.1)	
448+00	(ELEV 516.5)	
449+00	(ELEV 518.5)	
450+00	(ELEV 519.0)	
451+00	(ELEV 520.0)	
452+00	(ELEV 521.4)	
453+00	(ELEV 524.0)	
454+00	(ELEV 531.1)	
455+00	(ELEV 535.2)	
456+00	(ELEV 538.1)	
457+00	(ELEV 538.1)	

DIGALERT
Call 811 or digalert.com
Before You Dig

NV5
NATIONAL VERIFICATION SYSTEM

SDGE
SAN DIEGO GAS & ELECTRIC
TRANSMISSION ENGINEERING

TL23071
SYCAMORE CANYON SUBSTATION
TO PENASQUITOS SUBSTATION
230KV UNDERGROUND SEGMENT

PLAN & PROFILE
TL23071

SCALE: HORIZ. 1"=40' VERT. 1"=10'
SHEET 36 OF 60
DRAWING NUMBER 63422-36

POMERADO RD

TRAFFIC CONTROL NOTES

Contractor shall make application to the Traffic Engineering Section of the Department of Public Works (Roads Division, 5510 Overland Ave, Suite 410, Rm 470, San Diego, CA, 92123-1239, Mail Station O332) for a traffic control permit, a minimum of three (3) weeks prior to commencement of work. There is no fee for this permit.

All Traffic control plan(s) shall be in compliance with 2015 San Diego Regional Standard Drawings and the 2014 California, Manual Uniform Traffic Control Devices (MUTCD), Chapter 6 Temporary Traffic Control.

PROJECT SPECIFIC TRAFFIC CONTROL

Road name and work location radius/scope: **POMERADO RD**

Road traffic control operations:

FLAGGING, BIKE LANE CLOSURE AND PEDESTRIAN CONTROLS

Type of work: **FOR ELECTRICAL TRANSMISSION LINE**

Traffic control shall be in accordance with attached plan. The Contractor shall maintain 12' minimum travel lanes (14' minimum travel lanes where bike lanes exist) at all times.

NIGHT HOURS:

Work hours shall be from 10:00 PM to 5:00 AM, Monday thru Thursday.

Work hours shall be from 12:00 AM to 5:00 AM, Friday.

Work hours shall be from 10:00 PM to 12:00 AM, Sunday.

OR

DAY HOURS:

***Work hours shall be from 8:30 AM to 3:30 PM, Monday thru Friday.**

(NIGHT HOURS AND DAY HOURS SHALL NOT BE CONCURRENTLY.)

The Contractor shall anticipate shorter work hours where work zone is within one half mile radius from a school. Due to peak volumes of pedestrian and vehicular traffic associated with schools, the Contractor shall be required to delay the start of construction operations until a minimum 30 minutes after school is in session and complete construction operations a minimum 30 minutes before school is out of session, at the discretion of the County Engineer. Contractor shall contact school at least 2 working days before work begins to identify potential conflict hours within the approved work hours.

The Contractor will not be allowed to work during peak hours on roads that carry commuter traffic on the Mobility Element Roads per County of San Diego General Plan.

When the work zone is confined to the road shoulder with minimal or no road encroachment, refer to Chapter 6H “Typical Applications” of the “California Manual on Uniform Traffic Control Devices” (CA MUTCD), latest edition.

ROAD CLOSURE

No full or partial Road Closure will be allowed.

NOTIFICATION

By agreeing to this Permit, permittee agrees that County of San Diego shall not be liable for, and permittee shall indemnify, hold harmless, and defend the County of San Diego and each of its officers and employees against any and all claims, demands, liability, judgments, awards, fines, mechanics' liens or other liens, labor disputes, losses, damages, expenses, charges or costs of any kind or character, including attorneys' fees and court costs (hereinafter collectively referred to as “Claims”), related to this Permit or the work covered by this Permit and arising either directly or indirectly from any act, error, omission or negligence of permittee or its contractors, licensees, agents, servants or employees, including, without limitation, Claims caused by the sole passive negligent act or the concurrent negligent act, error or omission, whether active or passive, of County of San Diego Parties.

For work from 7PM to 7AM, Mon. thru Fri., the Contractor shall obtain a variance from the Noise Control Officer in accordance with Section 36.424, “VARIANCES,” of the County Code of Regulatory Ordinances. There is a fee for this variance. Please contact Souphie Sakdara at (858) 495-5214.

Whenever construction activity will disrupt or impede access to any residence/business, the contractor shall inform each affected residence/business by written notice the nature and expected duration of the disruptive construction activity. Such written notice shall be delivered to each affected residence/business a minimum of five (5) business days prior to the start of the disruptive construction activity.

Contractor shall coordinate with County Traffic Signal Coordinator 72 hours work days prior to start of work at (619) 701-1905 or (858) 935-5705 or (858) 694-3850. To identify location of signal detector loops and, if appropriate, to set the traffic signal on flashing red or modify signal timing prior to the start of work and to reset upon completion of work. Contractor shall provide signage for signal modification.

SIGNING

All signs shall conform to the guidelines set forth in the latest edition of Part 2 “Signs” and Part 6, “Temporary Traffic Control” of the “California Manual on Uniform Traffic Control Devices for Streets and Highways” (CA MUTCD).

The Contractor shall place "Tow-Away/No Parking" signs along the street 24 hours prior to the impending work. "Tow-Away/No Parking" signs shall be furnished by the Contractor and shall contain a space in which the contractor shall enter the day(s) during which parking will be prohibited. Contractor shall remove these signs immediately when they are no longer needed for use in the respective area of the project. If work is delayed or rescheduled for any reason after placement of "Tow-Away/No Parking" signs, sign(s) shall be removed and re-dated signs shall be installed two (2) days in advance of the impending work.

All signs shall be in place prior to start of construction.

All other signs shall be standard size unless otherwise noted. All advance warning signs shall be 48" x 48".

For work zone lasting more than four weeks, all W20-1 or C23, and curve warning signs shall be mounted on 4"x 4" wooden posts at standard height and equipped with type "B" high-intensity flashers, unless otherwise noted.

Temporary Traffic Control Signs shall be on a portable type installation.

Post-mounted signs shall remain in place at all times until construction is completed. Other signs required for traffic control shall be laid down or covered during non-working hours.

Temporary Traffic Control Devices shall comply with section 12-3 of Caltrans Standard Specifications unless otherwise noted.

All bike lane signs within work area shall be covered during working hours. Contractor shall use "BIKE LANE CLOSED" signs when working on roads that have designated bike lanes and remove the "BIKE LANE CLOSED" signs within the work area during non-working hours.

All advance-warning signs for night closures shall be illuminated.

Placement of all signs shall not interfere with sight distance at driveways and intersections.

Position of post-mounted signs may be adjusted as necessary to optimize visibility or sign and/or obtain suitable placement area.

W20-1 signs and all other yellow or orange signs shall have a reflective background constructed of at least high-intensity (Type III) retroreflective sheeting.

All signs shall be equipped with orange flags (or folded signs or with flashers) on roads posted 50 MPH or higher.

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

PCMS shall comply with Section 6F.60 of the CA MUTCD.

Minimum of Two Changeable Message Boards PCMS shall be considered when Road Closures (Partial or full) are necessary with detours.

STRIPING

No striping changes will be allowed to start on a Friday, unless otherwise noted and approved by the County Traffic Engineer.

Contractor shall layout and stripe all interim and final striping.

Contractor shall install all interim and final pavement markers, temporary tabs, and channelizers.

All striping changes shall be the responsibility of the Contractor. Striping modifications (due to construction), which exceed one (1) week in duration, require sandblasting. All sandblasting required by said striping changes shall be completed within 24 hours of that change.

All obliterated striping, raised pavement markers, pavement paint legends and markings, shall be reflectorized and replaced by the Contractor. Markings in thermoplastic shall be replaced in kind.

TRAFFIC SIGNAL LOOP DETECTORS

Signal equipment, such as loop detectors, damaged by the Contractor shall be replaced by the Contractor within 48 hours from time of damage.

DEVICES

Actual work area shall be protected with either orange reflectorized channelizing devices or by barricades equipped with type "A" flashers sufficient in number to prevent entry of both vehicles and pedestrians except as may be noted elsewhere. At no time shall a continuous row of flashers be used adjacent to a lane of traffic. Only steady-burn type "C" lamps shall be used under these circumstances.

All cones and/or post delineators shall be fitted with reflective sleeves of the appropriate color.

If used, all type "B" flashers shall operate 24 hours a day.

FLAGGING

Flagging operation shall use alternate one-way movement to pass traffic through the construction area.

Traffic shall be controlled at all times by flaggers. Flaggers shall be in constant communication with each other during the flagging operation. Advance flaggers shall be positioned upstream to warn traffic when queues develop. Additional flaggers may be required at intersections.

Where the one-lane section is short enough so that each end is visible from the other end, traffic will be controlled by means of a flagger at each end of the section. They should be able to communicate with each other verbally or by means of signals. These signals should not be such as to be mistaken for flagging signals. Where the end of one-way section is not visible from the other end, the flaggers

shall maintain contact by means of radio or field telephones so that a flagger may know when to allow traffic to proceed into the section.

Flaggers shall be positioned near crest of hill allowing flaggers sufficient visibility of approaching traffic.

Flaggers shall be positioned so that they are easily visible to approaching traffic.

Flagger stations for work at night shall be illuminated as referenced in Part 6 of the “California Manual on Uniform Traffic Control Devices for Streets and Highways” (CA MUTCD), latest edition.

Where a one-lane temporary traffic control zone is short enough to allow visibility from one end to the other, traffic may be controlled by a single flagger. When a single flagger is used, the flagger shall be stationed on the shoulder opposite the obstruction or work space, or in a position where good visibility and traffic control can be maintained at all times.

If unable to utilize an alternate one-way flagging operation, Contractor shall contact Department of Public Works, Roads Division at (858) 694-3850 three (3) weeks prior to the proposed closure to determine its appropriateness. If a road closure is deemed appropriate, proper advanced notification (information signs, mailed and verbal notifications) is necessary to the emergency services, police services, businesses, residents and school districts.

ACCESS

Emergency vehicle access shall be maintained at all times.

Mail service, trash service, and school bus access shall be maintained at all times.

Motorist delay time shall not exceed 15 minutes unless otherwise approved by the County Traffic Engineer.

Contractor shall maintain access to all private driveways within the construction area at all times. If continuous access cannot be maintained, access must be provided as needed.

Adequate provisions shall be made for pedestrian traffic.

Adequate sight distance shall be maintained at all intersections in the vicinity of the work zone. If sight distance is affected by the traffic control, the contractor shall provide adequate distance per the County of San Diego Public Road Standards. Flaggers may be needed. The use of mirrors are not permitted as an alternative to providing adequate sight distance.

GENERAL

The Contractor shall be responsible for supplying, installing and maintaining all traffic control devices as shown on the plan along with additional traffic control devices that may be required to ensure safe movement of traffic and pedestrians through work area.

The Contractor shall be responsible for coordinating with any Special Events that will be affected in the area of the impending work and the Contractor shall be responsible for coordinating with other traffic control work zones, unless approved by County Inspector. The Contractor shall maintain 500 feet between beginning and end of work zone signage. Updated Special Event and Temporary Traffic Control information within the County may be found at the following link: <https://www.sandiegocounty.gov/content/sdc/dpw/roads/roadclose.html>

The provisions of this section may be modified or altered if, in the opinion of the engineer, public traffic will be better served and the work expedited. Said modifications or alterations shall not be adopted until approved in writing by the engineer.

The Contractor shall minimize the active construction zone to 250 feet to 500 feet unless approved by County Inspector.

The Contractor shall maintain maximum closure length based on work that can be completed at the end of the work day.

During non-working hours, the Contractor shall provide the full road width, which existed prior to the start of construction.

Any open trenches within the construction area shall be adequately protected with barricades, k-rails, and/or spoil piles to prevent entry of vehicles and pedestrians.

All trenches shall be back-filled and paved or plate-bridged overnight. All temporary steel plate bridging shall have non-skid surfaces. Non-skid surfaces on the temporary steel plate bridging as well as the method of installing the temporary steel plate bridging and shoring shall be as specified in Section 602.1, "Temporary Steel Plate Bridging -- With a Non-Skid Surface" of the most current Caltrans Encroachment Manual. Unless approved by the County Inspector, use of steel plate bridging shall not exceed 24 hours. At the end of every work day, steel plate bridging shall not exceed 50 feet in length, unless approved by the County Inspector. Open trenches are not allowed during non-working hours.

All dirt and debris shall be removed from the roadway each day before completion of work. Street must be maintained in drivable condition at all times. Contractor shall not use the County right of way for storage of materials and equipment.

All Traffic Control devices, including advance warning signs, delineators, and barricades shall be removed from the roadway at the end of work each day (except W20-1 signs, if plate-bridging overnight.)

The Contractor is to restore roadway and all signing to prior conditions at the completion of work.

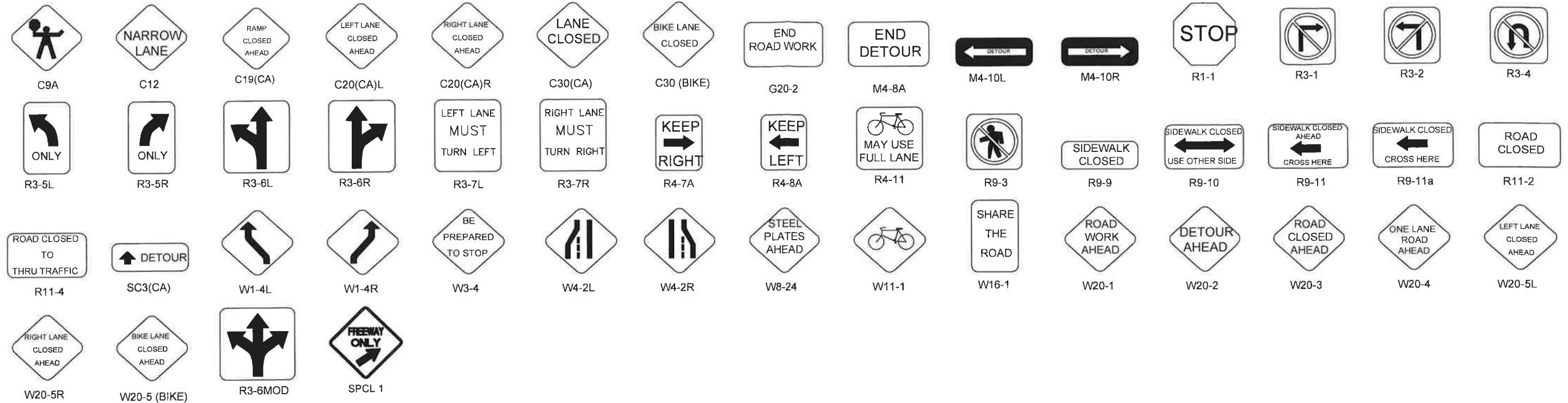
The Contractor shall coordinate their work with impacted agencies, San Diego Metropolitan Transit System (MTS), private road owners and/or Home Owner Associations (HOA). Some agencies may require up to two weeks lead time.

Unless the work is specifically requested by the Engineer, or is Emergency in nature, no work will be performed on the following, County observed holidays:

New Year's Day
Martin Luther King Jr. Day
President's Day
Cesar Chavez Day
Memorial Day
Independence Day

Labor Day
Veteran's Day
Thanksgiving Day
Christmas Day

SIGN LEGEND



APPROACH SPEED (MPH)	MINIMUM DISTANCE (FEET) BETWEEN SIGNS AND FROM LAST SIGN TO TAPER	MINIMUM TAPER LENGTHS (L) (FEET) FOR 12-FOOT LANE			BUFFER LENGTH (FEET)	MAX CONE SPACING		
		L	1/2L	1/3L		TAPER	TANGENT	CONFLICT
25	100	125	65	45	155	25	50	12
30	250	180	90	60	200	30	60	15
35	250	245	125	85	250	35	70	17
40	250	320	160	110	305	40	80	20
45	500	540	270	180	360	45	90	22
50	500	600	300	200	425	50	100	25
55+	500	660	330	220	495	55	110	27

LEGEND

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

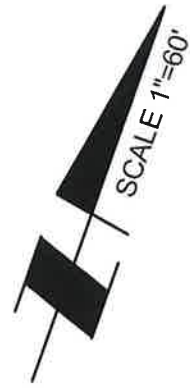
• Contractor to assist pedestrians through work zone

UTILITY SURVEYORS, INC.

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

PROJECT NAME: TL23071 – Sycamore Canyon Substation To Penasquitos Substation – 230 KV Underground	
AIRX JOB#: X160218	THOMAS GRID#: 1209–F6
TYPE OF WORK: TRENCHING / CONDUIT	DRAWN FOR: SAN DIEGO COUNTY
MISC/POTHOLE#:	

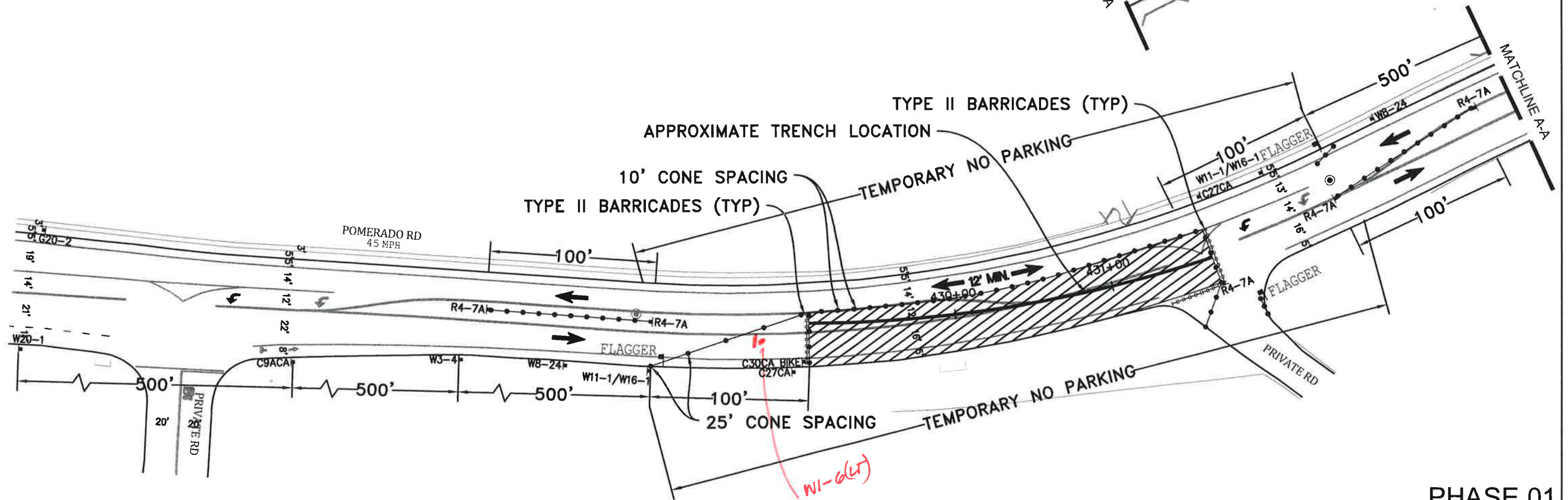
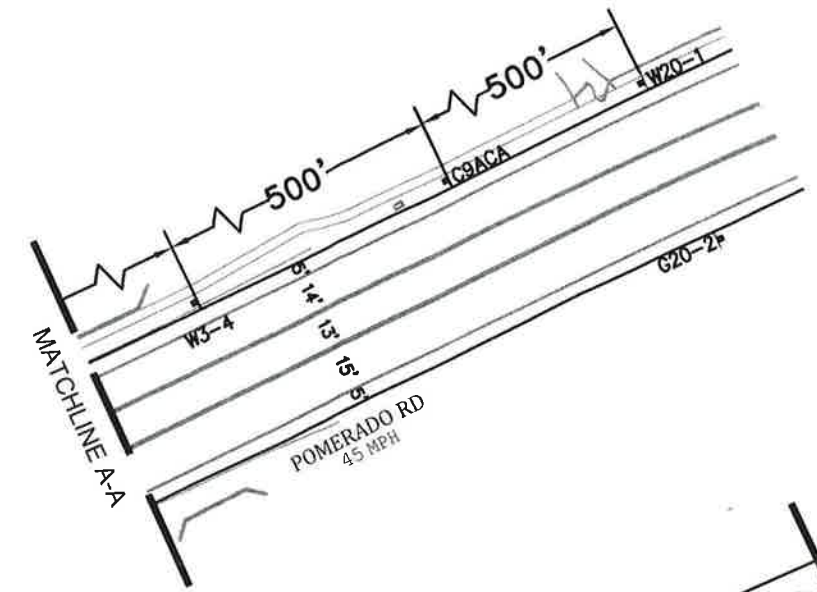
DATE: 4/27/2018
DESIGNED BY: Clint Jones
SHEET 1 OF 10



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

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

NOTE: STEEL PLATE BRIDGING SHALL NOT EXCEED 24 HR AND 50 FEET IN LENGTH IN THE WORK ZONE



PHASE 01

UTILITY SURVEYORS, INC.



Gail McMorran
President

2534 EAST EL NORTE PARKWAY, SUITE C

ESCONDIDO, CA 92027

PHONE: (760) 480-2347

CELL: (760) 419-3738

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

AIRX JOB#: X160218

THOMAS GRID#: 1209-F6

TYPE OF WORK: TRENCHING / CONDUIT

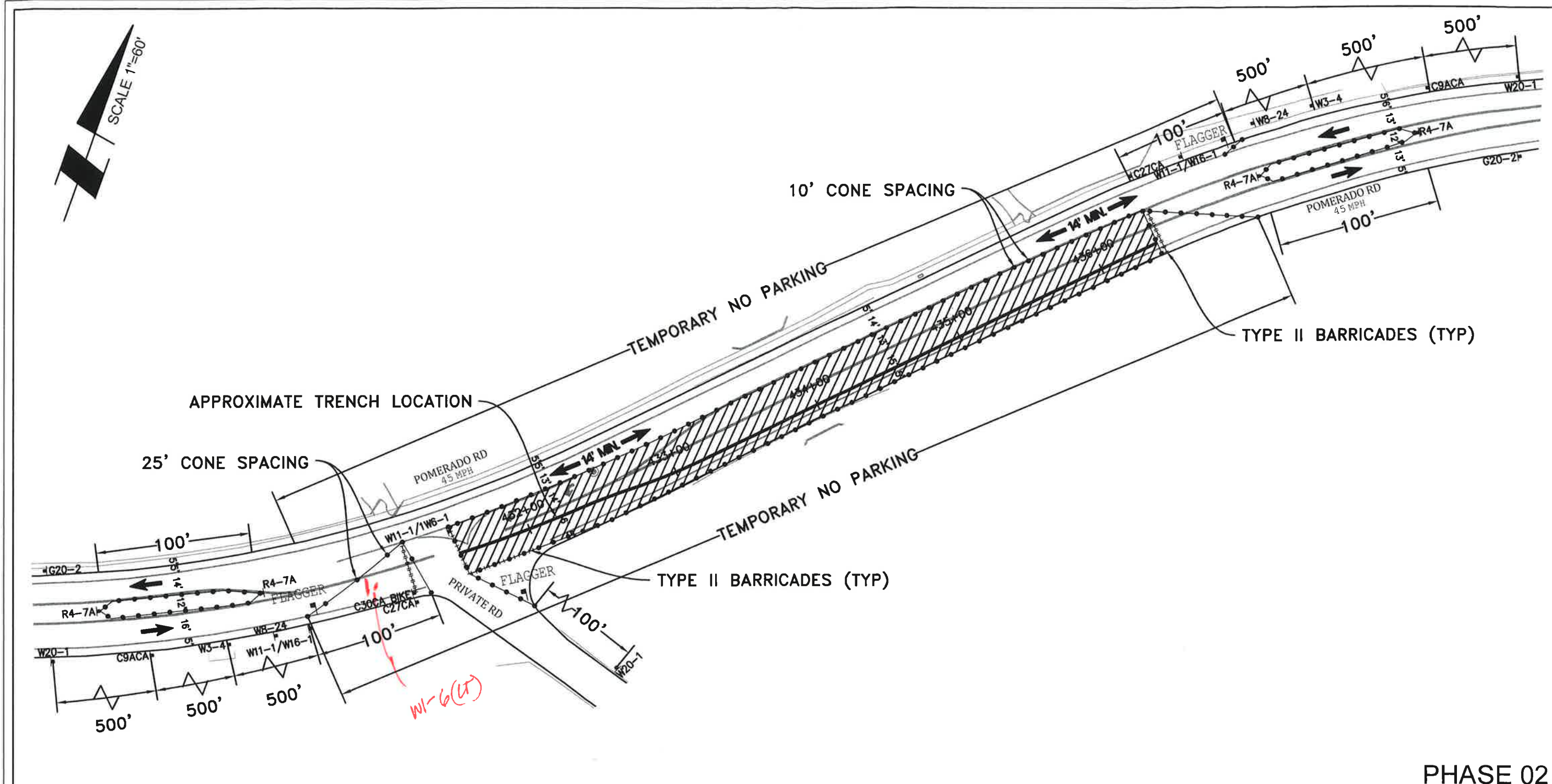
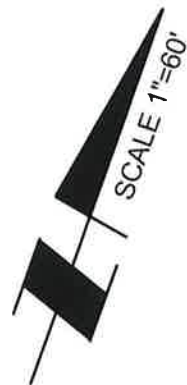
DRAWN FOR: SAN DIEGO COUNTY

MISC/POTHOLES#:

DATE: 4/27/2018

DESIGNED BY:
Clint Jones

SHEET 2 OF 10



PHASE 02

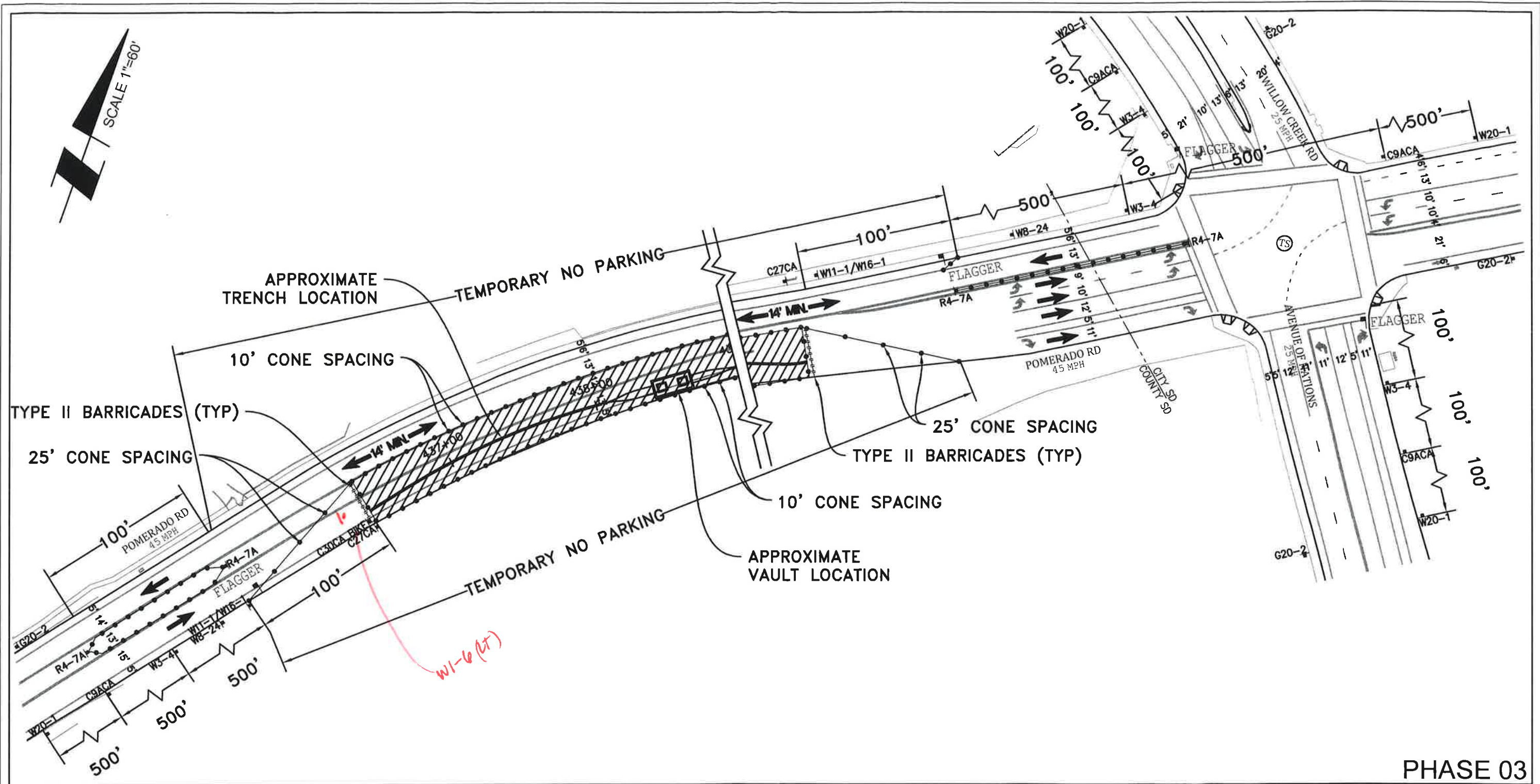
UTILITY SURVEYORS, INC.

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

PROJECT NAME: TL23071 – Sycamore Canyon Substation To Penasquitos Substation – 230 KV Underground	
AIRX JOB#: X160218	THOMAS GRID#: 1209-F6
TYPE OF WORK: TRENCHING / CONDUIT	DRAWN FOR: SAN DIEGO COUNTY
MISC/POTHOLES#:	

DATE: 4/27/2018
 DESIGNED BY:
 Clint Jones

SHEET 3 OF 10



PHASE 03

UTILITY SURVEYORS, INC.



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President

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ESCONDIDO, CA 92027

PHONE: (760) 480-2347

CELL: (760) 419-3738

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

AIRX JOB#: X160218

THOMAS GRID#: 1209-F6

TYPE OF WORK: TRENCHING / CONDUIT

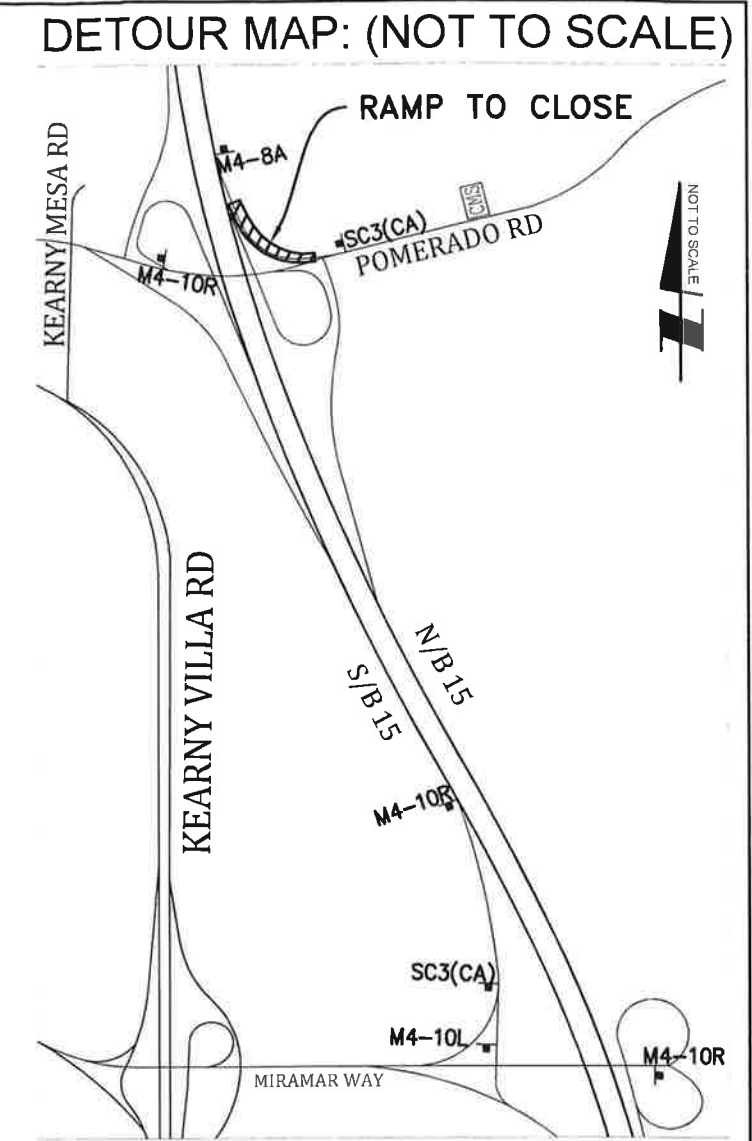
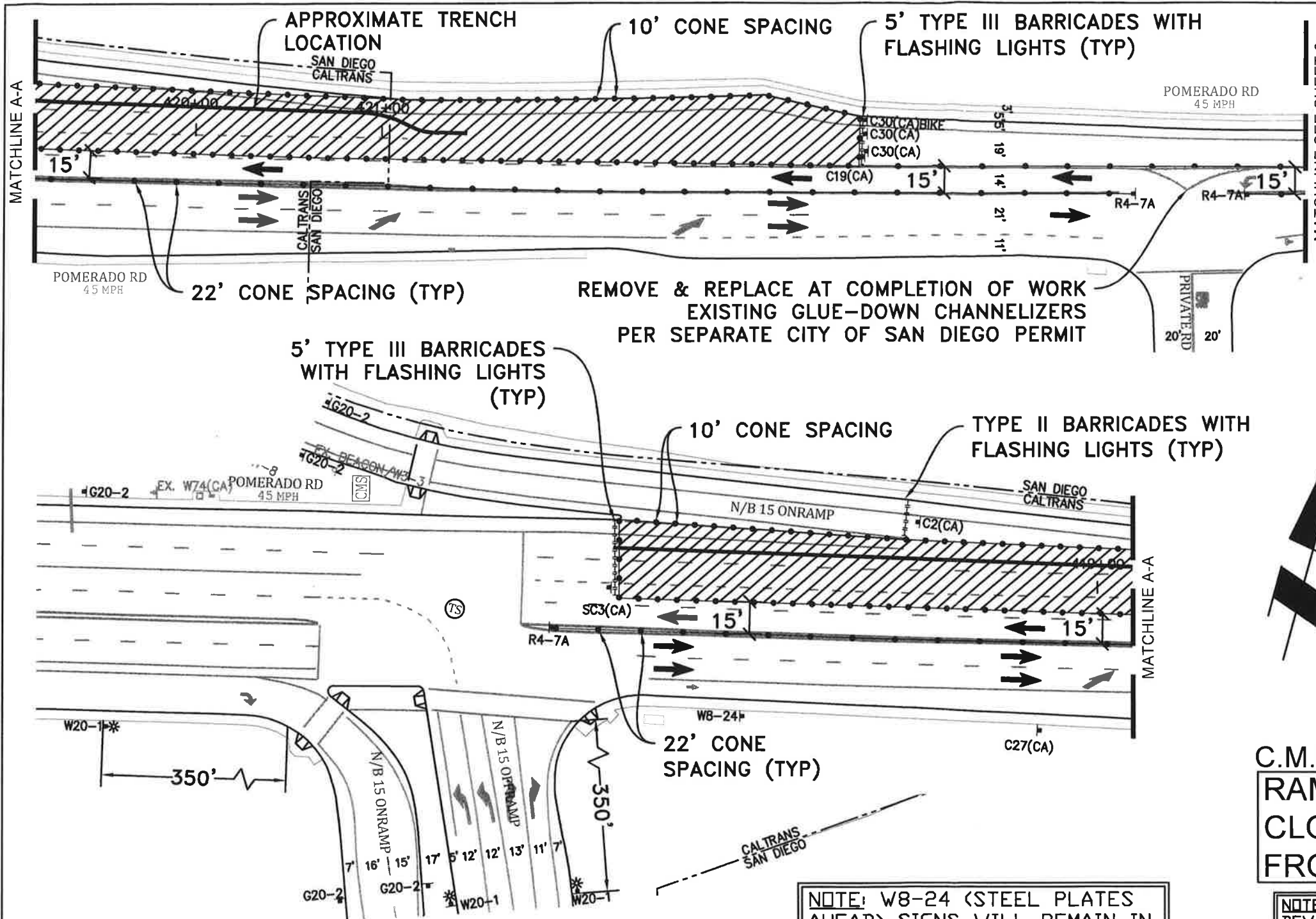
DRAWN FOR: SAN DIEGO COUNTY

MISC/POTHOLES#:

DATE: 4/27/2018

DESIGNED BY:
Clint Jones

SHEET 4 OF 10



C.M.S. MESSAGE

RAMP CLOSED FROM	DATE TO DATE 9PM-5AM	DETOUR MIRAMAR WAY
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NOTE: W8-24 (STEEL PLATES AHEAD) SIGNS WILL REMAIN IN PLACE FOR DURATION OF WORK

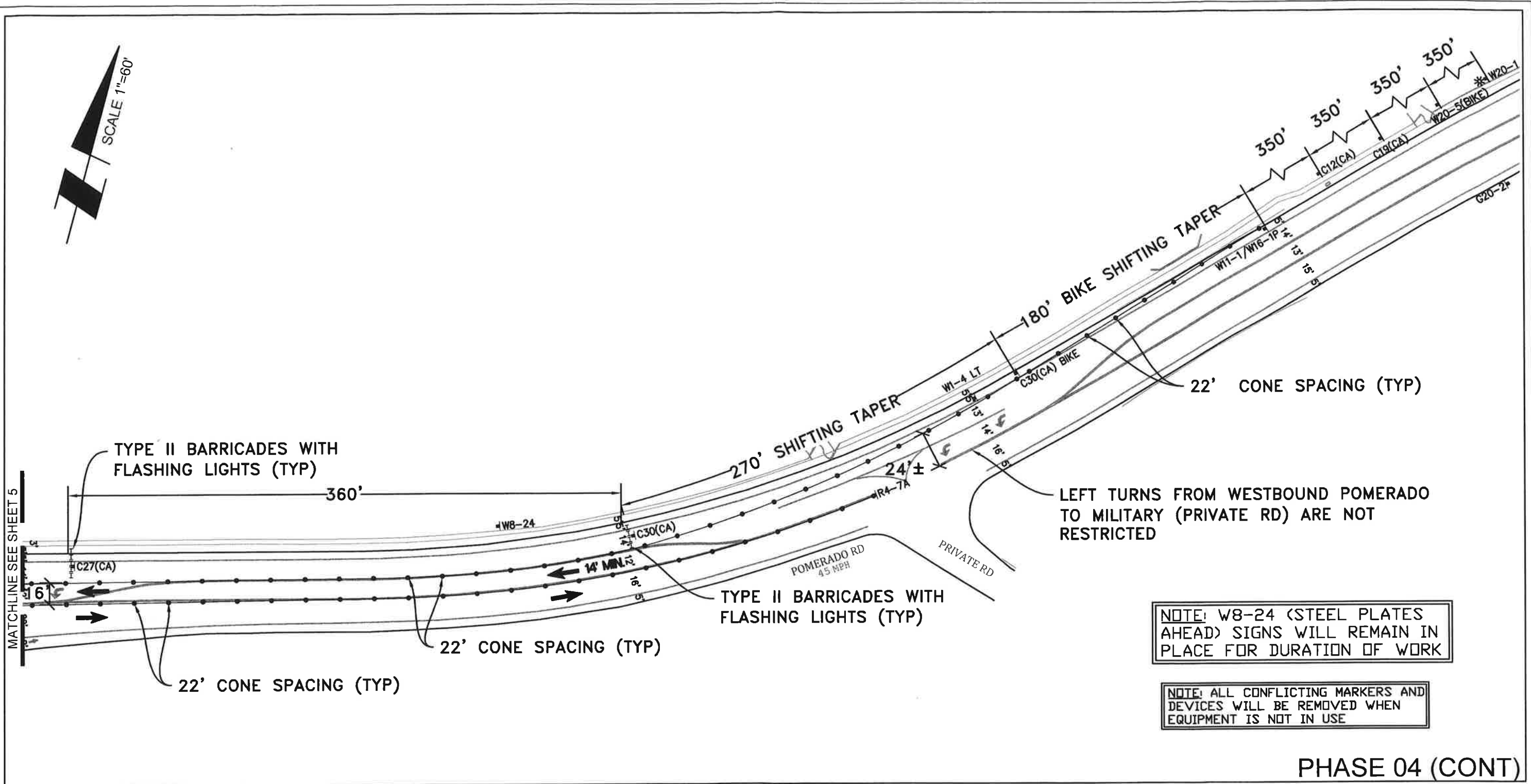
NOTE: ALL CONFLICTING MARKERS AND DEVICES WILL BE REMOVED WHEN EQUIPMENT IS NOT IN USE

PHASE 04

UTILITY SURVEYORS, INC.
AIRX
 Gail McMorrان
 President
 2534 EAST EL NORTE PARKWAY, SUITE C
 ESCONDIDO, CA 92027
 PHONE: (760) 480-2347
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AIRX JOB#: X160218	THOMAS GRID#: 1209-f6
TYPE OF WORK: TRENCHING / CONDUIT	DRAWN FOR: SAN DIEGO COUNTY
MISC/POTHOLES#:	

DATE: 4/27/2018
 DESIGNED BY:
 Clint Jones
SHEET 5 OF 10



PHASE 04 (CONT)

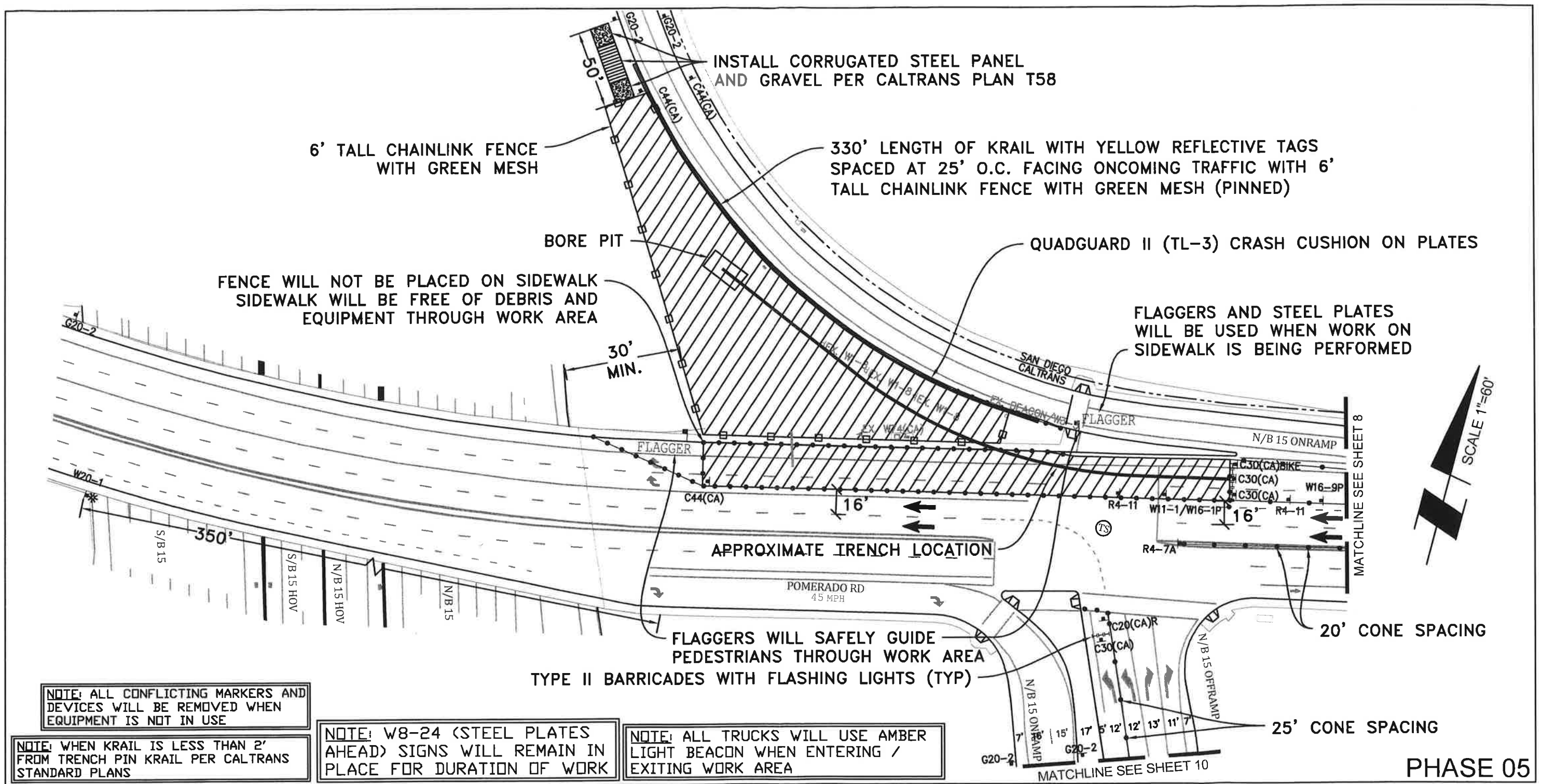
UTILITY SURVEYORS, INC.

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 2534 EAST EL NORTE PARKWAY, SUITE C
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Gail McMorran
 President

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DATE: 4/27/2018
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SHEET 6 OF 10



NOTE: ALL CONFLICTING MARKERS AND DEVICES WILL BE REMOVED WHEN EQUIPMENT IS NOT IN USE

NOTE: WHEN KRAIL IS LESS THAN 2' FROM TRENCH PIN KRAIL PER CALTRANS STANDARD PLANS

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

NOTE: ALL TRUCKS WILL USE AMBER LIGHT BEACON WHEN ENTERING / EXITING WORK AREA

UTILITY SURVEYORS, INC.

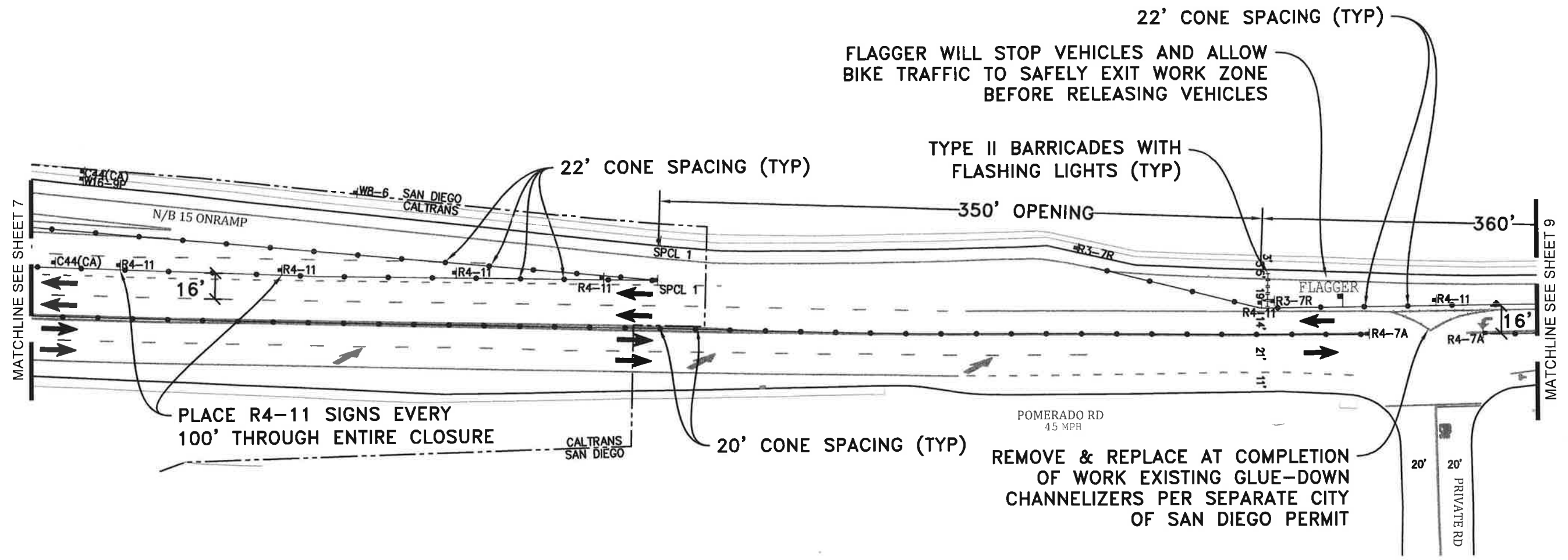
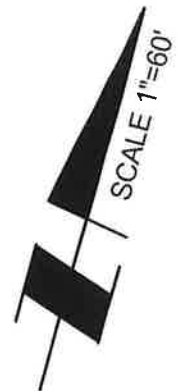
Gail McMorran
President

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SHEET 7 OF 10



22' CONE SPACING (TYP)
 FLAGGER WILL STOP VEHICLES AND ALLOW BIKE TRAFFIC TO SAFELY EXIT WORK ZONE BEFORE RELEASING VEHICLES

TYPE II BARRICADES WITH FLASHING LIGHTS (TYP)

350' OPENING

22' CONE SPACING (TYP)

PLACE R4-11 SIGNS EVERY 100' THROUGH ENTIRE CLOSURE

20' CONE SPACING (TYP)

REMOVE & REPLACE AT COMPLETION OF WORK EXISTING GLUE-DOWN CHANNELIZERS PER SEPARATE CITY OF SAN DIEGO PERMIT

NOTE: KEEP K-RAIL 1' FROM CURB

NOTE: ALL CONFLICTING MARKERS AND DEVICES WILL BE REMOVED WHEN EQUIPMENT IS NOT IN USE

NOTE: KRAIL WILL BE INSTALLED AFTER 10PM AND REMOVED BY 5AM



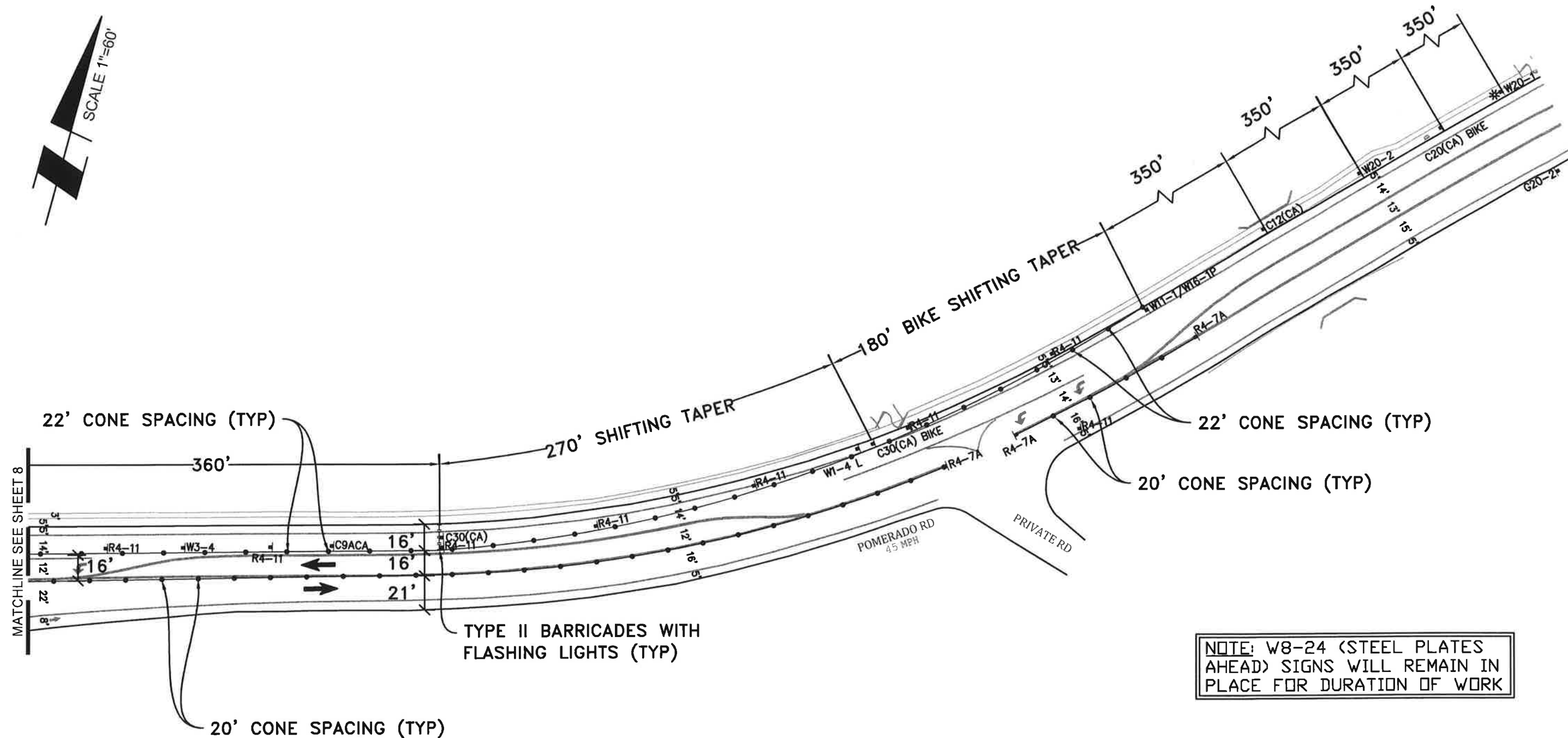
SPCL 1

PHASE 05 (CONT)

UTILITY SURVEYORS, INC.
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 PHONE: (760) 480-2347
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MISC/POTHOLE#:	

DATE: 4/27/2018
DESIGNED BY: Clint Jones
SHEET 8 OF 10



PHASE 05 (CONT)

UTILITY SURVEYORS, INC.



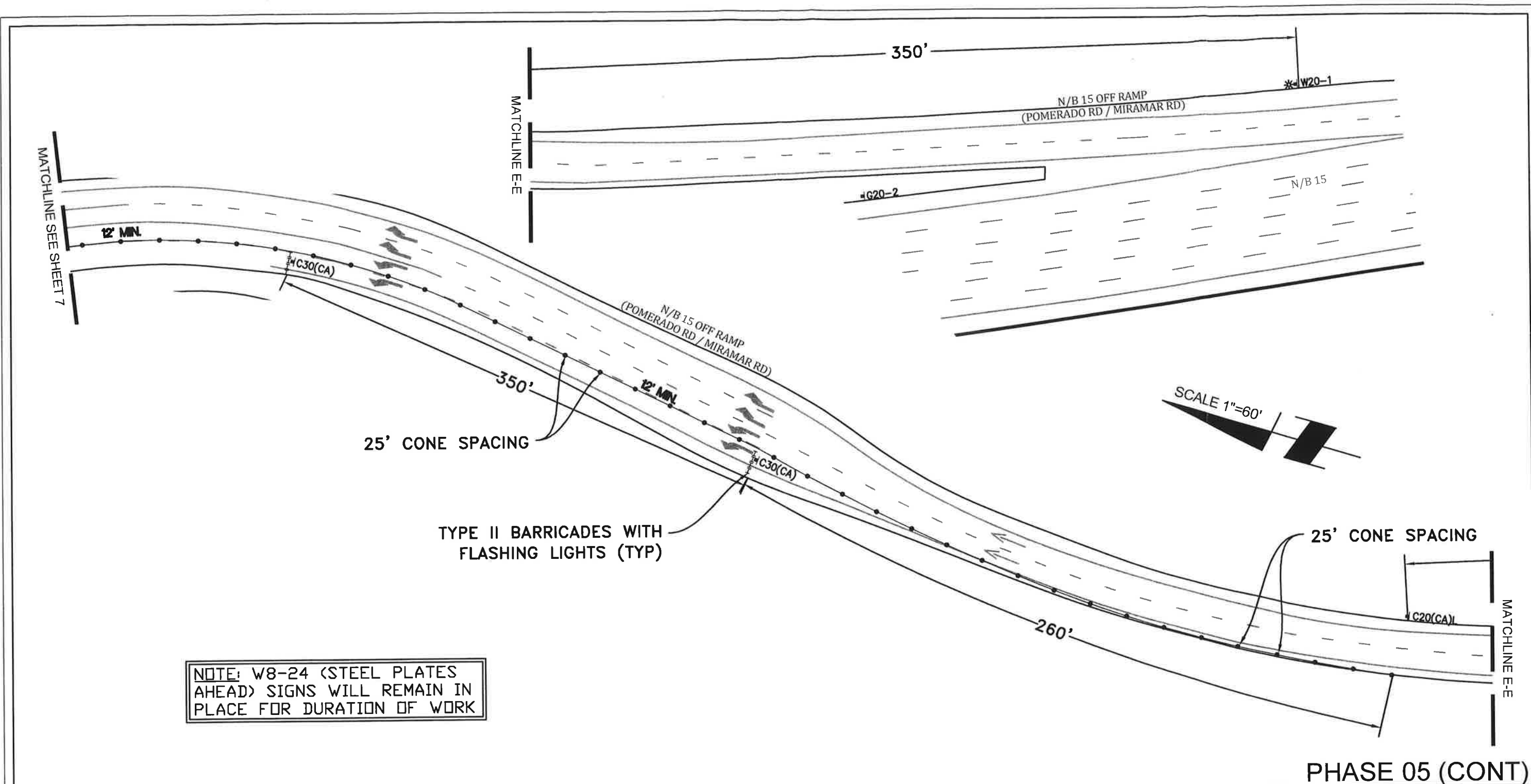
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Clint Jones

SHEET 9 OF 10



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

PHASE 05 (CONT)

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SHEET 10 OF 10