



PUBLIC WORKS DEPARTMENT

HSIP CYCLE 10

ADVANCE DILEMMA ZONE & RETROREFLECTIVE BORDERS

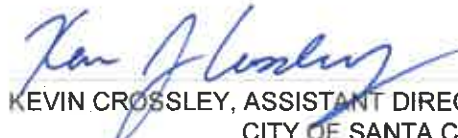
CITY PROJECT NO. c402216
STATE PROJECT NO. HSIP-5025(078)

SHEET	NAME
1	TITLE SHEET
2	PROJECT LOCATION MAP
3	LAUREL ST - CALIFORNIA ST
4	LAUREL ST - CHESTNUT ST
5	LAUREL ST - CENTER ST
6	LAUREL ST - PACIFIC AV
7	LAUREL ST - FRONT ST
8	LAUREL ST - BROADWAY - SAN LORENZO BL
9	FRONT ST - SOQUEL AV
10	SOQUEL AV - RIVER ST S
11	MISSION ST - CENTER ST - FRONT ST - PACIFIC AV
12	WATER ST - RIVER ST
13	OCEAN ST - PLYMOUTH ST
14	OCEAN ST - KENNAN ST - WASHBURN AV

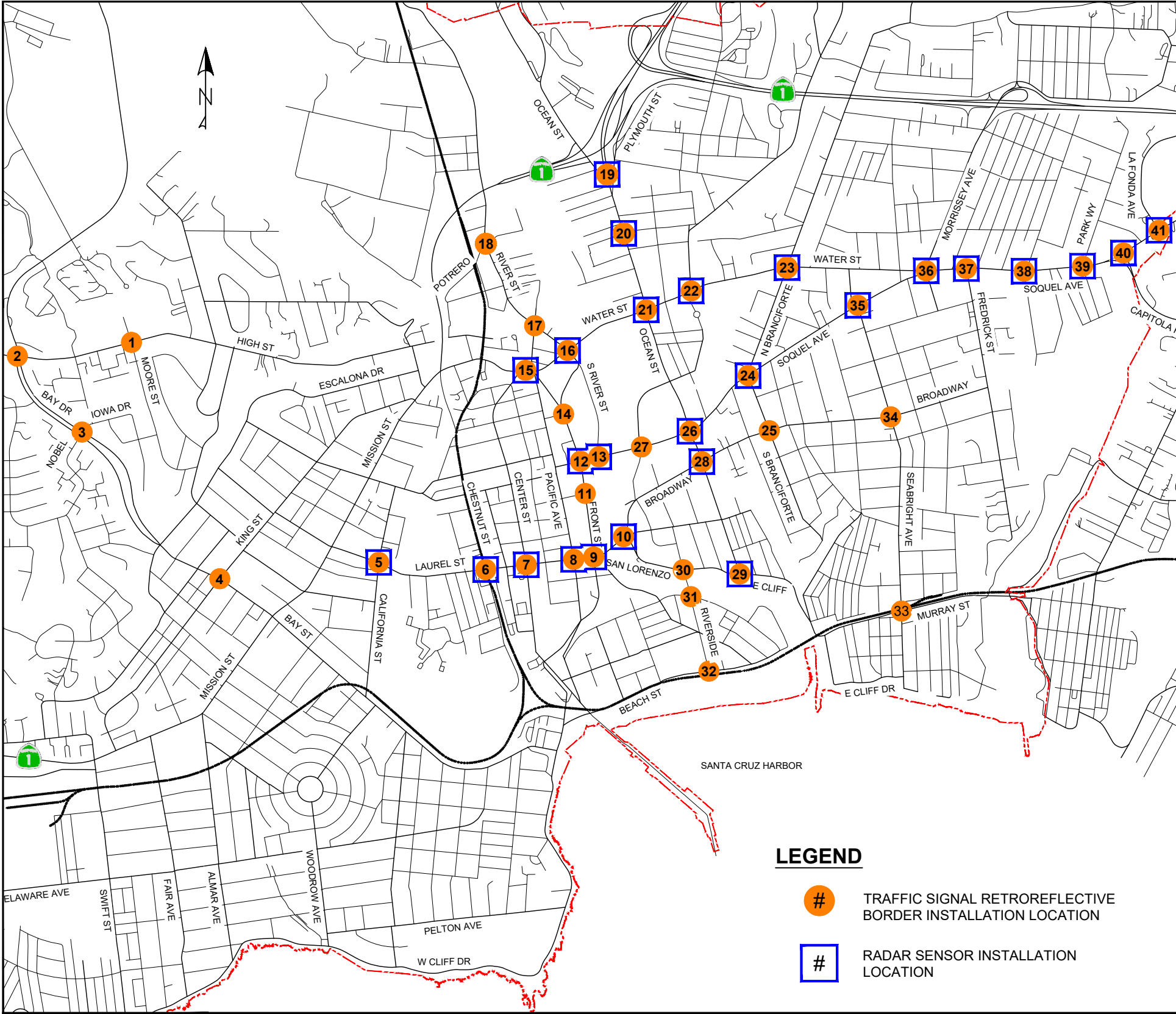
SHEET	NAME
15	OCEAN ST - WATER ST
16	WATER ST - MARKET ST
17	WATER ST - N BRANCIFORTE AV
18	SOQUEL AV - N BRANCIFORTE AV
19	SOQUEL AV - OCEAN ST
20	OCEAN ST - BROADWAY
21	OCEAN ST - E CLIFF DR - SAN LORENZO BL
22	SOQUEL AV - SEABRIGHT AV
23	SOQUEL AV - MORRISSEY BL - WATER ST
24	SOQUEL AV - FREDERICK ST
25	SOQUEL AV - HAGEMANN AV - TREVETHAN AV
26	SOQUEL AV - PARK WY
27	SOQUEL AV - CAPITOLA RD
28	SOQUEL AV - LA FONDA AV



APPROVED BY:


R.C.E. NO. 74847
KEVIN CROSSLEY, ASSISTANT DIRECTOR / CITY ENGINEER
CITY OF SANTA CRUZ

REFERENCES	DATE 12/04/2024	SCALE
FIELD BOOK: FIELD-BOOK	DRAWN DNC	SHEET 1 OF 28
DRAWING #: REF-DWG	DESIGN DE	
	CHECKED SUPV.	VAULT NO. 9213



LEGEND

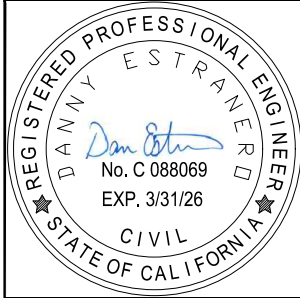


TRAFFIC SIGNAL RETROREFLECTIVE
BORDER INSTALLATION LOCATION



RADAR SENSOR INSTALLATION
LOCATION

No.	Traffic Locations	Traffic Signal Yellow Border Installation						Advance Dilemma Zone Sensor Mounting Location			
		SV/TV Mounts		MAS/MAT Mounts		Damaged/Missing Backplate					
		3 Lenses	4 Lenses	3 Lenses	4 Lenses	3 Lenses	4 Lenses	NW	NE	SW	SE
1	High St - Moore St	12	-	2	-			-	-	-	-
2	Bay St - High St	11	-	4	-			-	-	-	-
3	Bay St - Nobel Dr - Iowa Dr	14	-	2	-			-	-	-	-
4	Bay St - King St	8	-	6	-			-	-	-	-
5	Laurel St - California St	11	-	4	-			1	-	-	1
6	Laurel St - Chestnut St	10	-	6	-	-	-	-	1	1	-
7	Laurel St - Center St	12	-	6	-	-	-	1	-	-	1
8	Laurel St - Pacific Av	12	-	6	-	-	-	1	-	-	1
9	Laurel St - Front St	12	-	8	-	1	-	-	1	1	-
10	Laurel St - Broadway - San Lorenzo Bl	11	-	3	-	-	-	1	-	1	1
11	Front St - Cathcart St - Metro	16	-	5	-	-	-	-	-	-	-
12	Front St - Soquel Av	11	1	3	1	-	-	1	-	-	1
13	Soquel Av - South River St	5	-	2	-	-	-	1	-	-	1
14	Front St - Cooper St	6	-	-	-	2	-	-	-	-	-
15	Mission St - Center St - Front St - Pacific Av	19	-	4	-	3	-	1	1	1	1
16	Water St - River St	12	-	8	-	-	-	1	-	-	1
17	River St - N Pacific Av	10	-	2	-	-	-	-	-	-	-
18	River St - Potrero St	12	-	5	-	-	-	-	-	-	-
19	Ocean St - Plymouth St	13	-	2	-	-	-	-	1	1	-
20	Ocean St - Kennan St - Washburn Av	14	-	4	-	-	-	-	1	1	-
21	Ocean St - Water St	16	-	5	-	-	-	1	-	-	1
22	Water St - Market St	9	-	3	-	-	-	1	-	-	2
23	Water St - N Branciforte Av	13	-	7	-	2	-	-	1	1	-
24	Soquel Av - N Branciforte Av	11	-	2	2	-	-	1	-	1	1
25	Broadway - S Branciforte Av	10	-	2	-	-	-	-	-	-	-
26	Soquel Av - Ocean St	15	-	7	-	-	-	-	1	1	-
27	Soquel Av - Riverside Av - Dakota Av	10	-	2	-	-	-	-	-	-	-
28	Ocean St - Broadway	11	-	6	-	-	-	1	-	-	1
29	Ocean St - E Cliff Dr	7	-	4	-	2	-	1	-	-	1
30	Riverside Av - San Lorenzo Bl	11	-	4	1	-	-	-	-	-	-
31	Riverside Av - Third St	12	-	2	-	-	-	-	-	-	-
32	Riverside Av - Beach St	7	-	-	-	-	-	-	-	-	-
33	Seabright Av - Murray St	11	-	4	2	2	-	-	-	-	-
34	Broadway - Seabright Av	12	-	4	-	-	-	-	-	-	-
35	Soquel Av - Seabright Av	12	-	4	-	1	-	1	1	1	-
36	Soquel Av - Morrissey Bl - Water St	14	-	4	-	2	-	1	-	1	1
37	Soquel Av - Frederick St	8	-	4	-	-	-	1	-	-	1
38	Soquel Av - Hagemann Av - Trevethan Av	12	-	4	-	-	-	1	-	-	2
39	Soquel Av - Park Wy	13	-	4	-	-	-	1	-	-	1
40	Soquel Av - Capitola Rd	10	2	4	-	-	-	1	-	-	1
41	Soquel Av - La Fonda Av	11	-	4	-	-	-	1	-	-	1
TOTAL TRAFFIC SIGNAL HEADS		466	3	36	6	15	0	TOTAL ADZ DETECTORS		60	



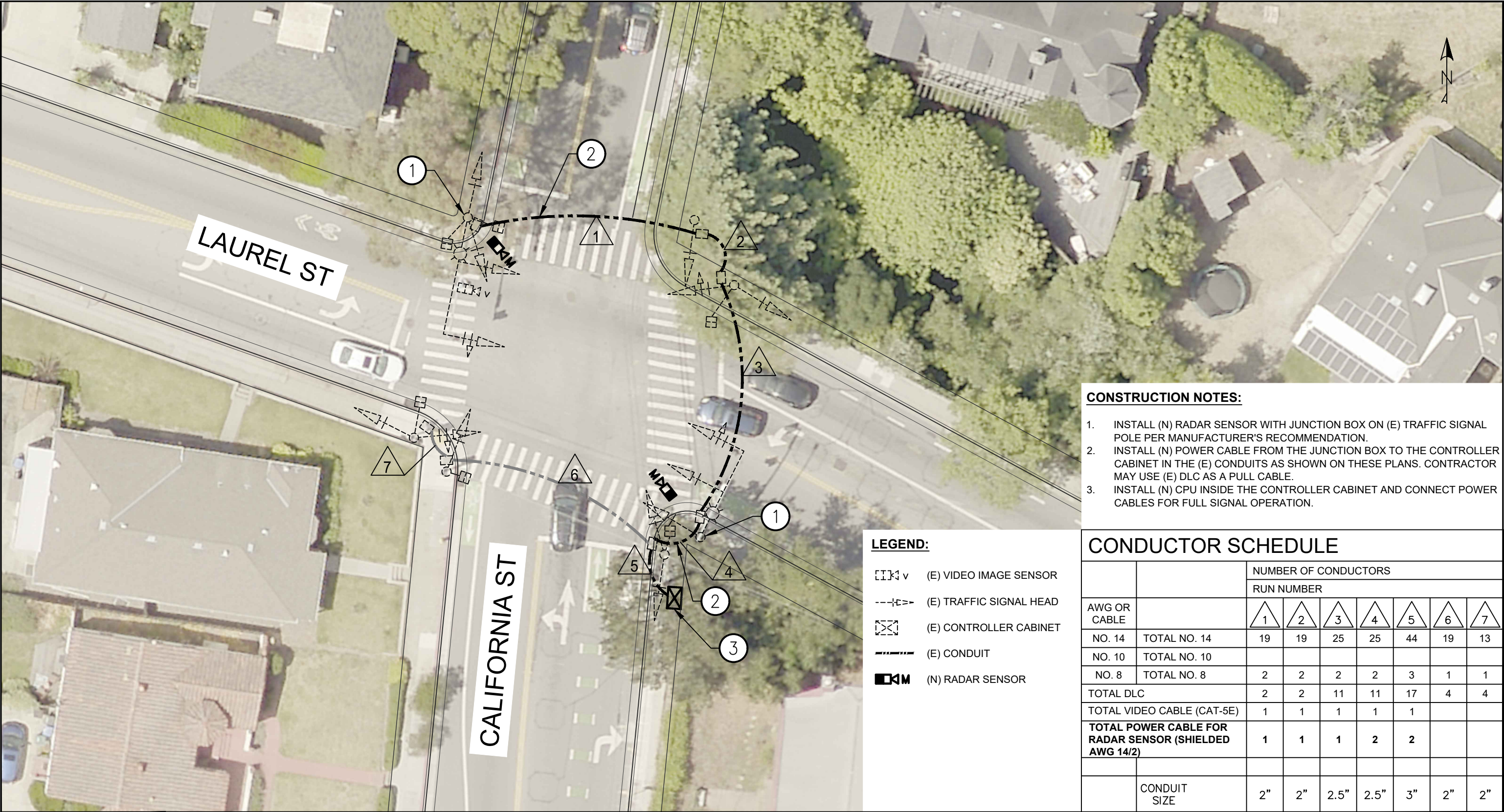
REVISIONS	



CITY OF
SANTA CRUZ
PUBLIC WORKS DEPARTMENT
809 Center Street, Room 201
Santa Cruz, CA 95060

HSIP10 - ADVANCE DILEMMA ZONE
& RETROREFLECTIVE BORDERS
PROJECT LOCATION MAP

REFERENCES	DATE	12/04/2024	SCALE	NO SCALE	
	DRAWN	DnC			
	DESIGN	DnC	SHEET 2		OF 28
	CHECKED	DE	VAULT NO.		9213



- CONSTRUCTION NOTES:**
- 1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
 - 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
 - 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLES FOR FULL SIGNAL OPERATION.

CONDUCTOR SCHEDULE								
		NUMBER OF CONDUCTORS						
		RUN NUMBER						
AWG OR CABLE		1	2	3	4	5	6	7
NO. 14	TOTAL NO. 14	19	19	25	25	44	19	13
NO. 10	TOTAL NO. 10							
NO. 8	TOTAL NO. 8	2	2	2	2	3	1	1
TOTAL DLC		2	2	11	11	17	4	4
TOTAL VIDEO CABLE (CAT-5E)		1	1	1	1	1		
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)		1	1	1	2	2		
	CONDUIT SIZE	2"	2"	2.5"	2.5"	3"	2"	2"



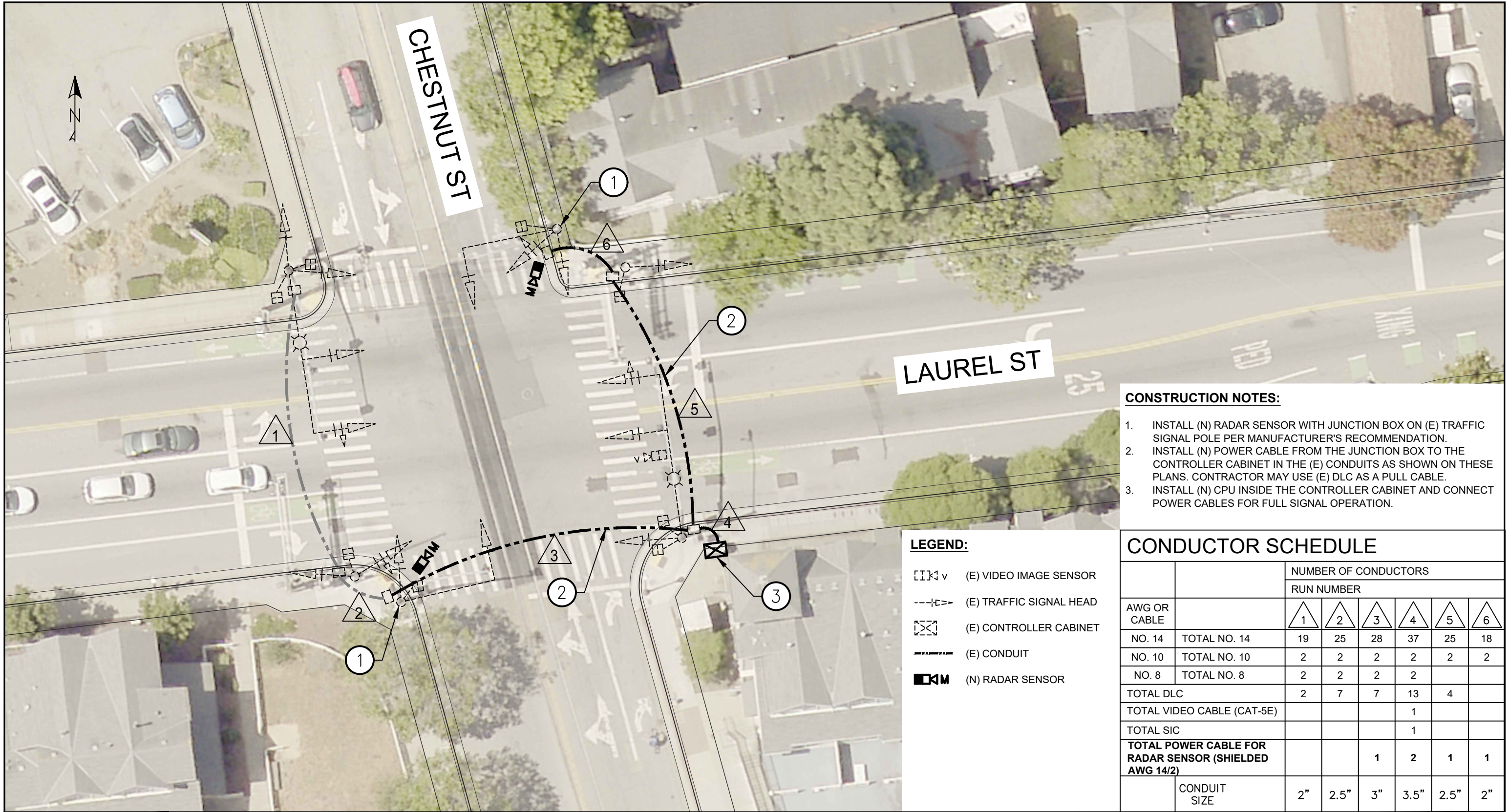
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HSIP10 - ADVANCE DILEMMA ZONE
& RETROREFLECTIVE BORDERS
LAUREL ST - CALIFORNIA ST

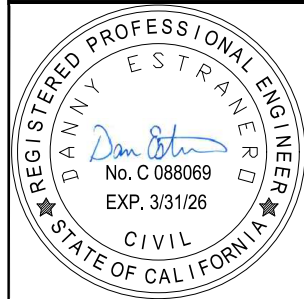
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FIELD BOOK: #	DRAWN DnC	
DRAWING #:	DESIGN DnC	SHEET 3 OF 28
	CHECKED DE	VAULT NO. 9213



- CONSTRUCTION NOTES:**
- 1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
 - 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
 - 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLES FOR FULL SIGNAL OPERATION.

- LEGEND:**
- (E) VIDEO IMAGE SENSOR
 - (E) TRAFFIC SIGNAL HEAD
 - (E) CONTROLLER CABINET
 - (E) CONDUIT
 - (N) RADAR SENSOR

		NUMBER OF CONDUCTORS					
		RUN NUMBER					
AWG OR CABLE		1	2	3	4	5	6
NO. 14	TOTAL NO. 14	19	25	28	37	25	18
NO. 10	TOTAL NO. 10	2	2	2	2	2	2
NO. 8	TOTAL NO. 8	2	2	2	2		
TOTAL DLC		2	7	7	13	4	
TOTAL VIDEO CABLE (CAT-5E)					1		
TOTAL SIC					1		
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)				1	2	1	1
	CONDUIT SIZE	2"	2.5"	3"	3.5"	2.5"	2"



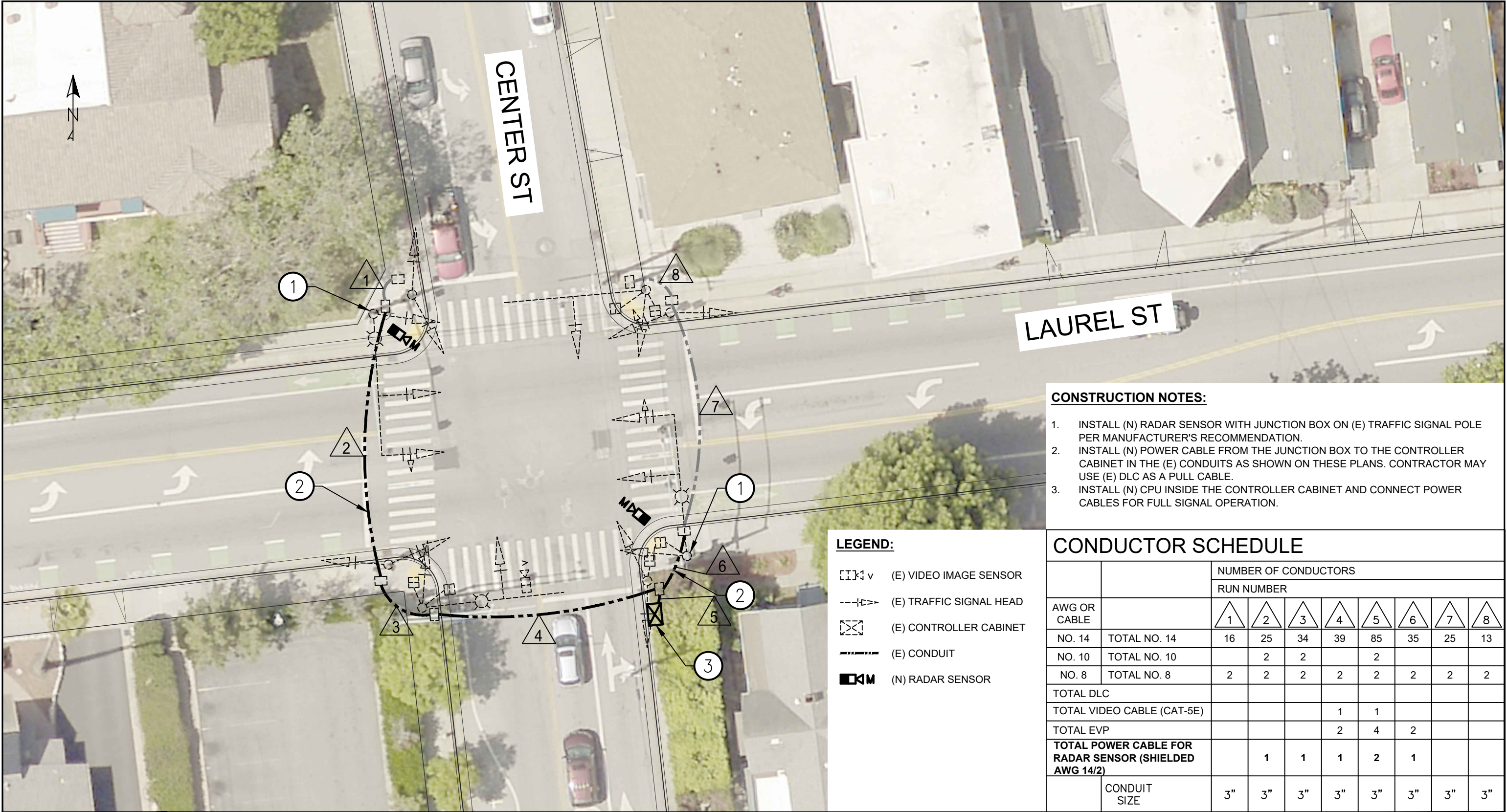
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PUBLIC WORKS DEPARTMENT
809 Center Street, Room 201
Santa Cruz, CA 95060

HSIP10 - ADVANCE DILEMMA ZONE
& RETROREFLECTIVE BORDERS
LAUREL ST - CHESTNUT ST

REFERENCES FIELD BOOK: # DRAWING #:	DATE	12/04/2024	SCALE 1" = 20'
	DRAWN	DnC	
	DESIGN	DnC	SHEET 4 OF 28 VAULT NO. 9213
	CHECKED	DE	



CONSTRUCTION NOTES:

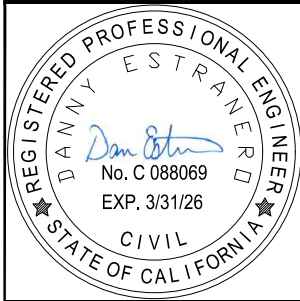
1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLES FOR FULL SIGNAL OPERATION.

LEGEND:

- (E) VIDEO IMAGE SENSOR
- (E) TRAFFIC SIGNAL HEAD
- (E) CONTROLLER CABINET
- (E) CONDUIT
- (N) RADAR SENSOR

CONDUCTOR SCHEDULE

		NUMBER OF CONDUCTORS							
		RUN NUMBER							
AWG OR CABLE		1	2	3	4	5	6	7	8
NO. 14	TOTAL NO. 14	16	25	34	39	85	35	25	13
NO. 10	TOTAL NO. 10		2	2		2			
NO. 8	TOTAL NO. 8	2	2	2	2	2	2	2	2
TOTAL DLC									
TOTAL VIDEO CABLE (CAT-5E)					1	1			
TOTAL EVP					2	4	2		
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)			1	1	1	2	1		
	CONDUIT SIZE	3"	3"	3"	3"	3"	3"	3"	3"



REVISIONS	



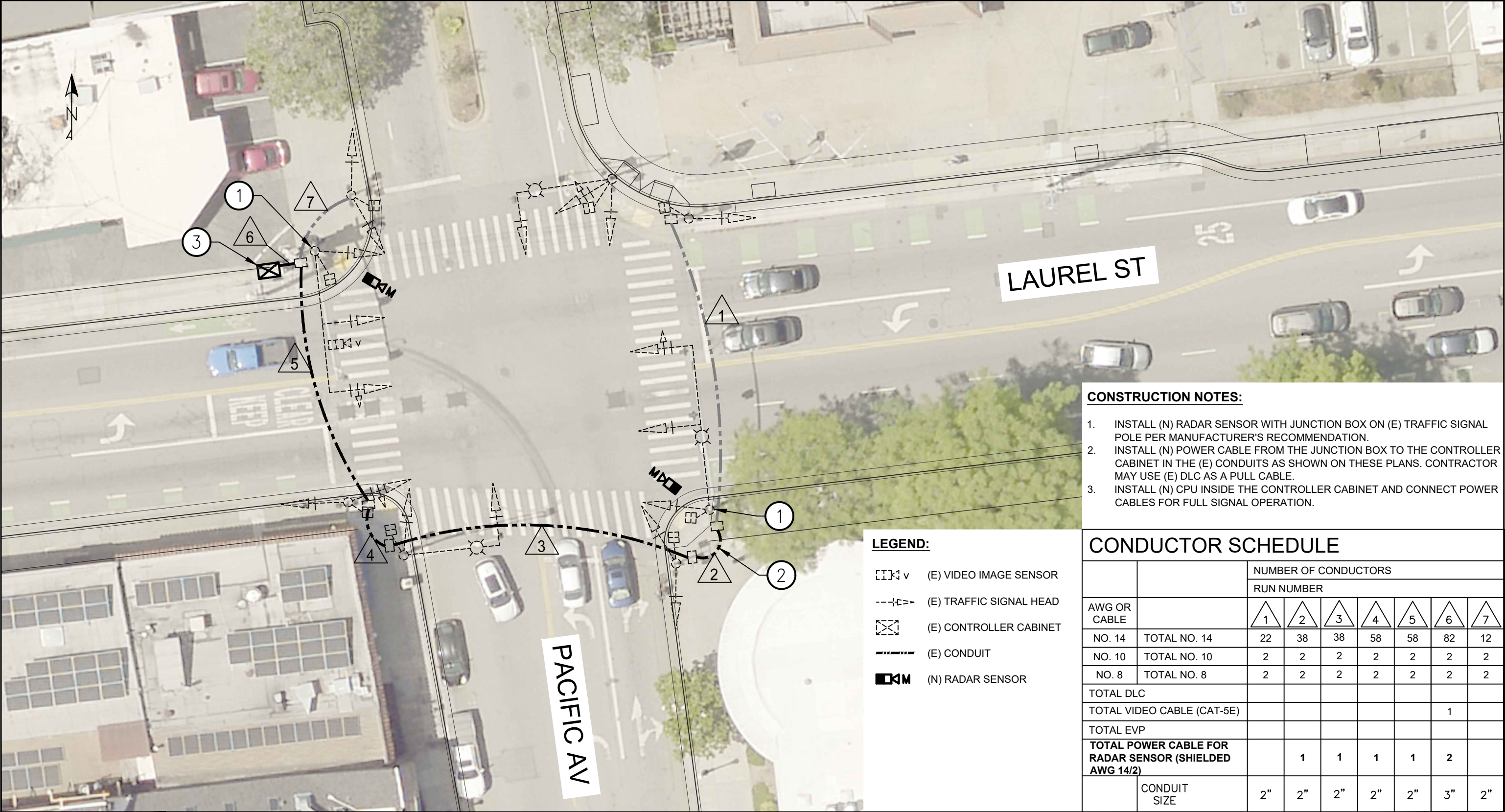
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Santa Cruz, CA 95060

HSIP10 - ADVANCE DILEMMA ZONE
& RETROREFLECTIVE BORDERS
LAUREL ST - CENTER ST

REFERENCES
FIELD BOOK: #
DRAWING #:

DATE 12/04/2024
DRAWN DnC
DESIGN DnC
CHECKED DE

SCALE 1" = 20'
SHEET 5 OF 28
VAULT NO. 9213



- CONSTRUCTION NOTES:**
- 1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
 - 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
 - 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLES FOR FULL SIGNAL OPERATION.

CONDUCTOR SCHEDULE								
AWG OR CABLE		NUMBER OF CONDUCTORS						
		RUN NUMBER						
		1	2	3	4	5	6	7
NO. 14	TOTAL NO. 14	22	38	38	58	58	82	12
NO. 10	TOTAL NO. 10	2	2	2	2	2	2	2
NO. 8	TOTAL NO. 8	2	2	2	2	2	2	2
TOTAL DLC								
TOTAL VIDEO CABLE (CAT-5E)							1	
TOTAL EVP								
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)			1	1	1	1	2	
	CONDUIT SIZE	2"	2"	2"	2"	2"	3"	2"



REVISIONS	

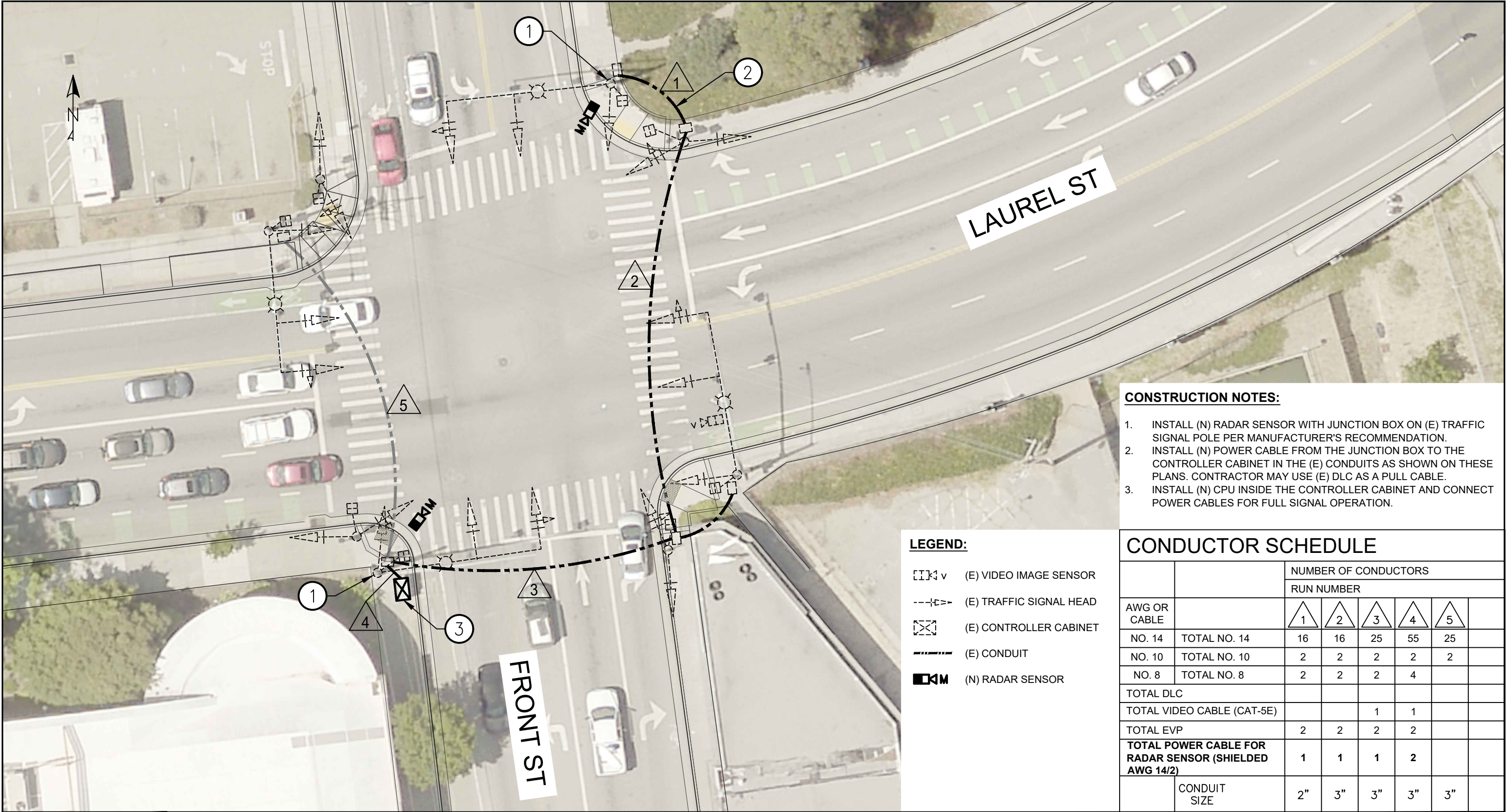


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PUBLIC WORKS DEPARTMENT
809 Center Street, Room 201
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HSIP10 - ADVANCE DILEMMA ZONE
& RETROREFLECTIVE BORDERS
LAUREL ST - PACIFIC AV

REFERENCES	DATE 12/04/2024	SCALE 1" = 20'
FIELD BOOK: #	DRAWN DnC	
DRAWING #:	DESIGN DnC	SHEET 6 OF 28
	CHECKED DE	

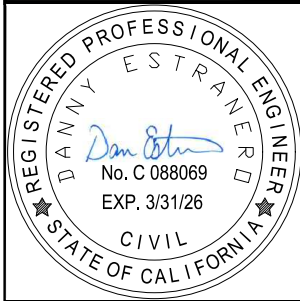
VAULT NO.
9213



- CONSTRUCTION NOTES:**
- 1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
 - 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
 - 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLES FOR FULL SIGNAL OPERATION.

- LEGEND:**
- (E) VIDEO IMAGE SENSOR
 - (E) TRAFFIC SIGNAL HEAD
 - (E) CONTROLLER CABINET
 - (E) CONDUIT
 - (N) RADAR SENSOR

		NUMBER OF CONDUCTORS				
		RUN NUMBER				
AWG OR CABLE		1	2	3	4	5
NO. 14	TOTAL NO. 14	16	16	25	55	25
NO. 10	TOTAL NO. 10	2	2	2	2	2
NO. 8	TOTAL NO. 8	2	2	2	4	
TOTAL DLC						
TOTAL VIDEO CABLE (CAT-5E)				1	1	
TOTAL EVP		2	2	2	2	
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)		1	1	1	2	
	CONDUIT SIZE	2"	3"	3"	3"	3"



REVISIONS	



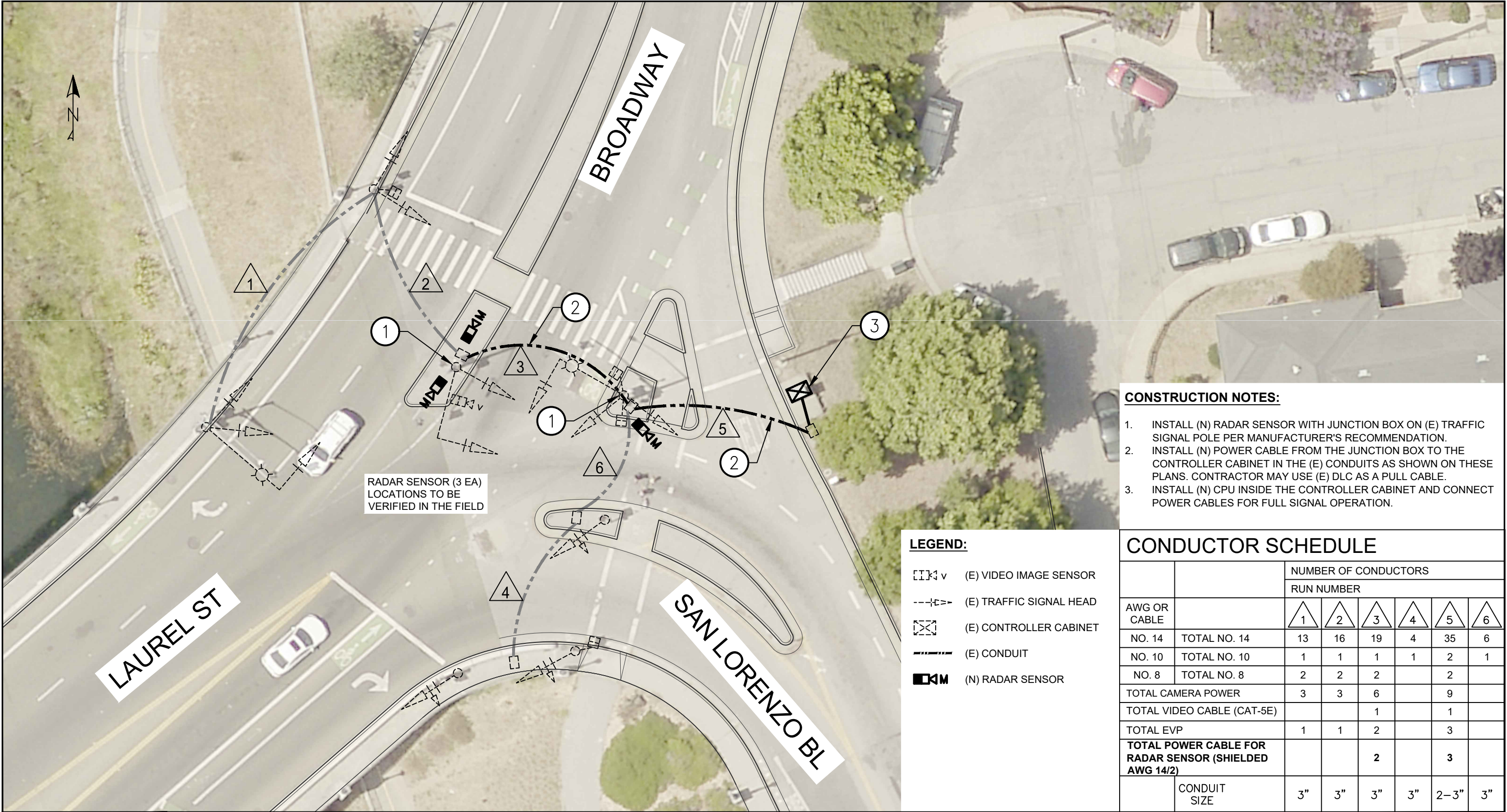
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HSIP10 - ADVANCE DILEMMA ZONE

& RETROREFLECTIVE BORDERS

LAUREL ST - FRONT ST

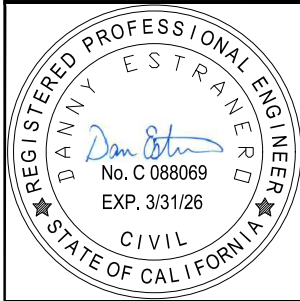
REFERENCES FIELD BOOK: # DRAWING #:	DATE 12/04/2024	SCALE 1" = 20'
	DRAWN DnC	
	DESIGN DnC	SHEET 7 OF 28 VAULT NO. 9213
	CHECKED DE	



- CONSTRUCTION NOTES:**
1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLES FOR FULL SIGNAL OPERATION.

- LEGEND:**
- (E) VIDEO IMAGE SENSOR
 - (E) TRAFFIC SIGNAL HEAD
 - (E) CONTROLLER CABINET
 - (E) CONDUIT
 - (N) RADAR SENSOR

		NUMBER OF CONDUCTORS					
		RUN NUMBER					
AWG OR CABLE		1	2	3	4	5	6
NO. 14	TOTAL NO. 14	13	16	19	4	35	6
NO. 10	TOTAL NO. 10	1	1	1	1	2	1
NO. 8	TOTAL NO. 8	2	2	2		2	
TOTAL CAMERA POWER		3	3	6		9	
TOTAL VIDEO CABLE (CAT-5E)				1		1	
TOTAL EVP		1	1	2		3	
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)				2		3	
	CONDUIT SIZE	3"	3"	3"	3"	2-3"	3"



REVISIONS	



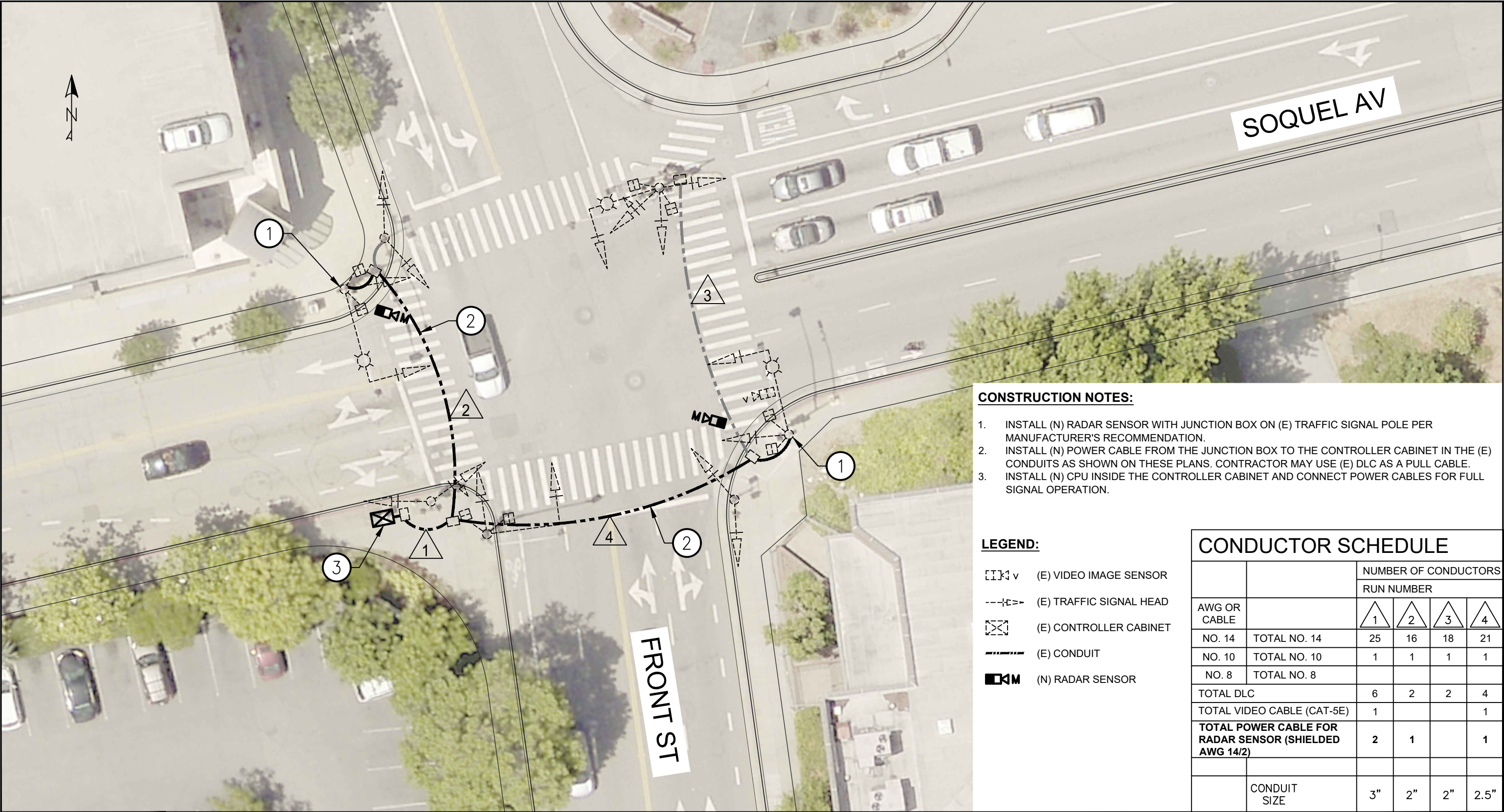
CITY OF
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PUBLIC WORKS DEPARTMENT
809 Center Street, Room 201
Santa Cruz, CA 95060

HSIP10 - ADVANCE DILEMMA ZONE

& RETROREFLECTIVE BORDERS

LAUREL ST - BROADWAY - SAN LORENZO BL

REFERENCES FIELD BOOK: # DRAWING #:	DATE	12/04/2024	SCALE 1" = 20'
	DRAWN	DnC	
	DESIGN	DnC	SHEET 8 OF 28 VAULT NO. 9213
	CHECKED	DE	



CONSTRUCTION NOTES:

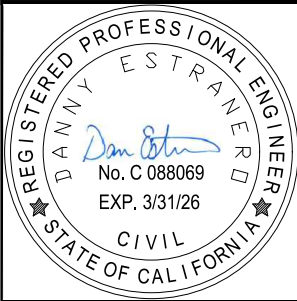
1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLES FOR FULL SIGNAL OPERATION.

LEGEND:

-  (E) VIDEO IMAGE SENSOR
-  (E) TRAFFIC SIGNAL HEAD
-  (E) CONTROLLER CABINET
-  (E) CONDUIT
-  (N) RADAR SENSOR

CONDUCTOR SCHEDULE

		NUMBER OF CONDUCTORS			
		RUN NUMBER			
AWG OR CABLE		1	2	3	4
NO. 14	TOTAL NO. 14	25	16	18	21
NO. 10	TOTAL NO. 10	1	1	1	1
NO. 8	TOTAL NO. 8				
TOTAL DLC		6	2	2	4
TOTAL VIDEO CABLE (CAT-5E)		1			1
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)		2	1		1
	CONDUIT SIZE	3"	2"	2"	2.5"



REVISIONS



CITY OF
SANTA CRUZ
PUBLIC WORKS DEPARTMENT
809 Center Street, Room 201
Santa Cruz, CA 95060

HSIP10 - ADVANCE DILEMMA ZONE
& RETROREFLECTIVE BORDERS
SOQUEL AV - FRONT ST

REFERENCES

FIELD BOOK:
#

DRAWING #:

DATE 12/04/2024

DRAWN DnC

DESIGN DnC

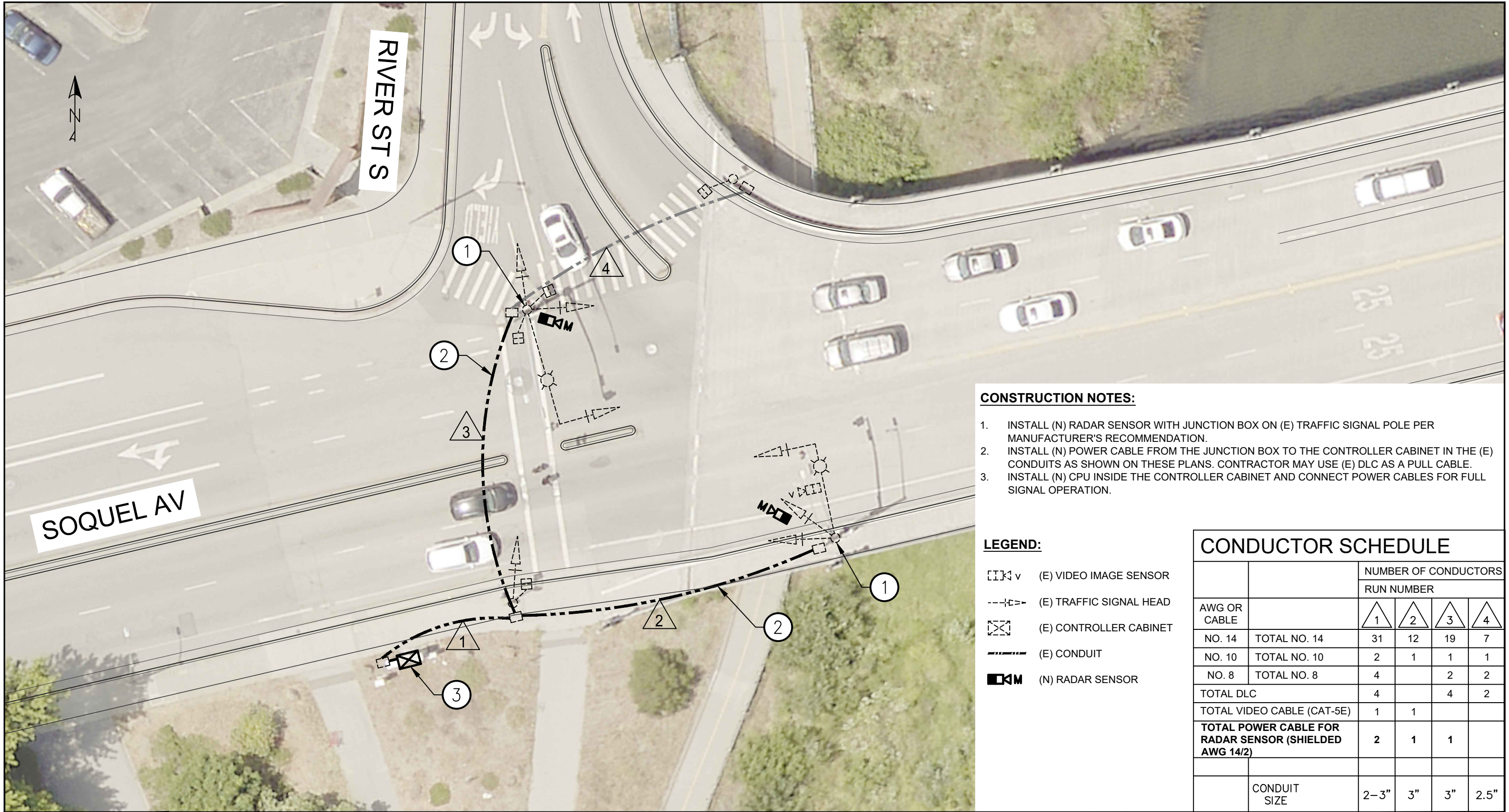
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SCALE 1" = 20'

SHEET 9 OF 28

VAULT NO.

9213



CONSTRUCTION NOTES:

1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLES FOR FULL SIGNAL OPERATION.

LEGEND:

- (E) VIDEO IMAGE SENSOR
- (E) TRAFFIC SIGNAL HEAD
- (E) CONTROLLER CABINET
- (E) CONDUIT
- (N) RADAR SENSOR

CONDUCTOR SCHEDULE

		NUMBER OF CONDUCTORS			
		RUN NUMBER			
AWG OR CABLE		1	2	3	4
NO. 14	TOTAL NO. 14	31	12	19	7
NO. 10	TOTAL NO. 10	2	1	1	1
NO. 8	TOTAL NO. 8	4		2	2
TOTAL DLC		4		4	2
TOTAL VIDEO CABLE (CAT-5E)		1	1		
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)		2	1	1	
	CONDUIT SIZE	2-3"	3"	3"	2.5"



REVISIONS



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PUBLIC WORKS DEPARTMENT
809 Center Street, Room 201
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**HSIP10 - ADVANCE DILEMMA ZONE
& RETROREFLECTIVE BORDERS**
SOQUEL AV - RIVER ST S

REFERENCES

FIELD BOOK:

DRAWING #:

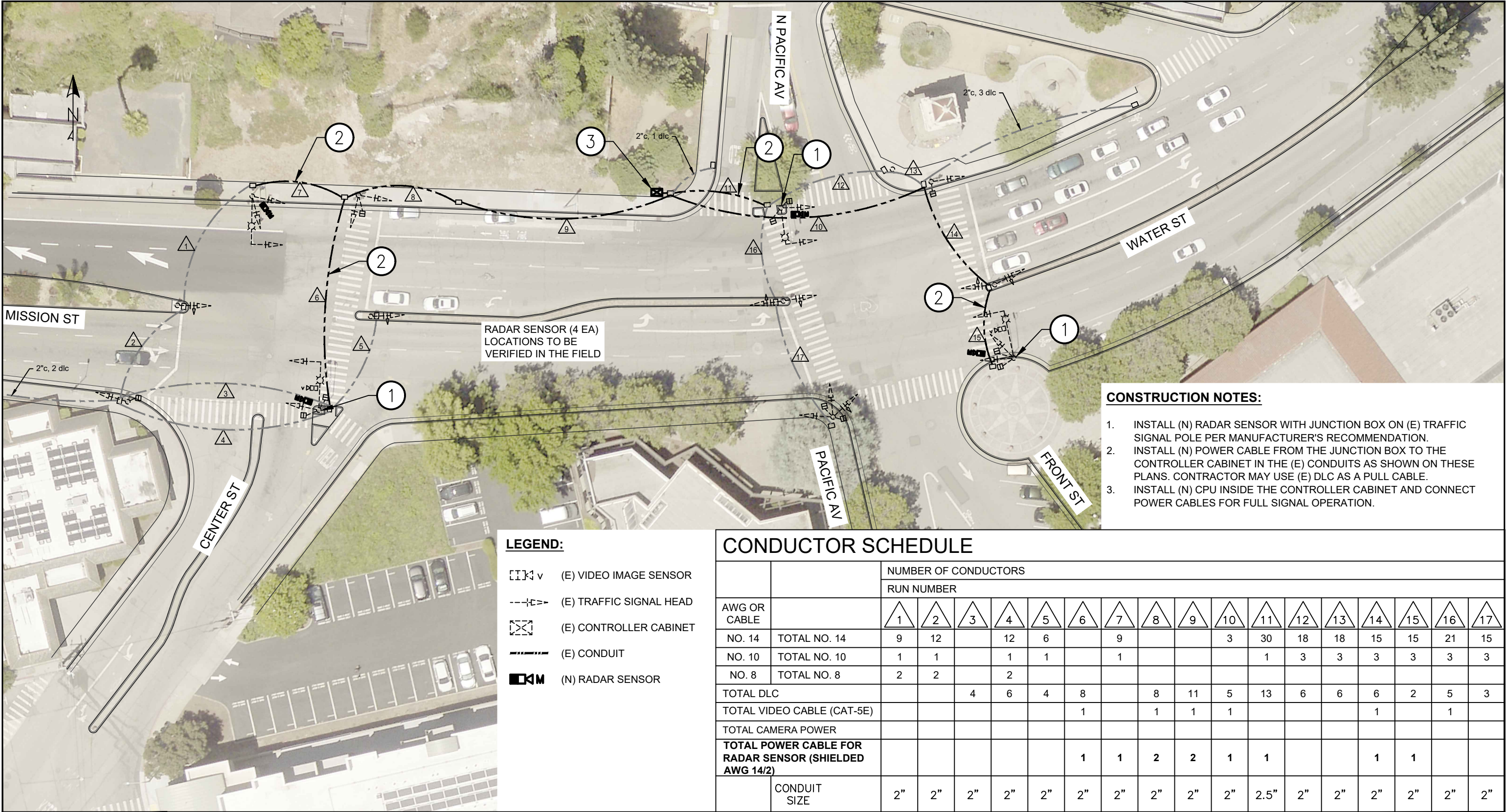
DATE 12/04/2024
DRAWN DnC
DESIGN DnC
CHECKED DE

SCALE 1" = 20'

SHEET 10 OF 28

VAULT NO.

9213



CONSTRUCTION NOTES:

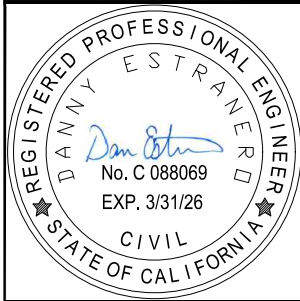
1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLES FOR FULL SIGNAL OPERATION.

LEGEND:

- (E) VIDEO IMAGE SENSOR
- (E) TRAFFIC SIGNAL HEAD
- (E) CONTROLLER CABINET
- (E) CONDUIT
- (N) RADAR SENSOR

CONDUCTOR SCHEDULE

		NUMBER OF CONDUCTORS																
		RUN NUMBER																
AWG OR CABLE		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NO. 14	TOTAL NO. 14	9	12		12	6		9			3	30	18	18	15	15	21	15
NO. 10	TOTAL NO. 10	1	1		1	1		1				1	3	3	3	3	3	3
NO. 8	TOTAL NO. 8	2	2		2													
TOTAL DLC				4	6	4	8		8	11	5	13	6	6	6	2	5	3
TOTAL VIDEO CABLE (CAT-5E)							1		1	1	1				1		1	
TOTAL CAMERA POWER																		
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)							1	1	2	2	1	1			1	1		
	CONDUIT SIZE	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2.5"	2"	2"	2"	2"	2"	2"



REVISIONS	



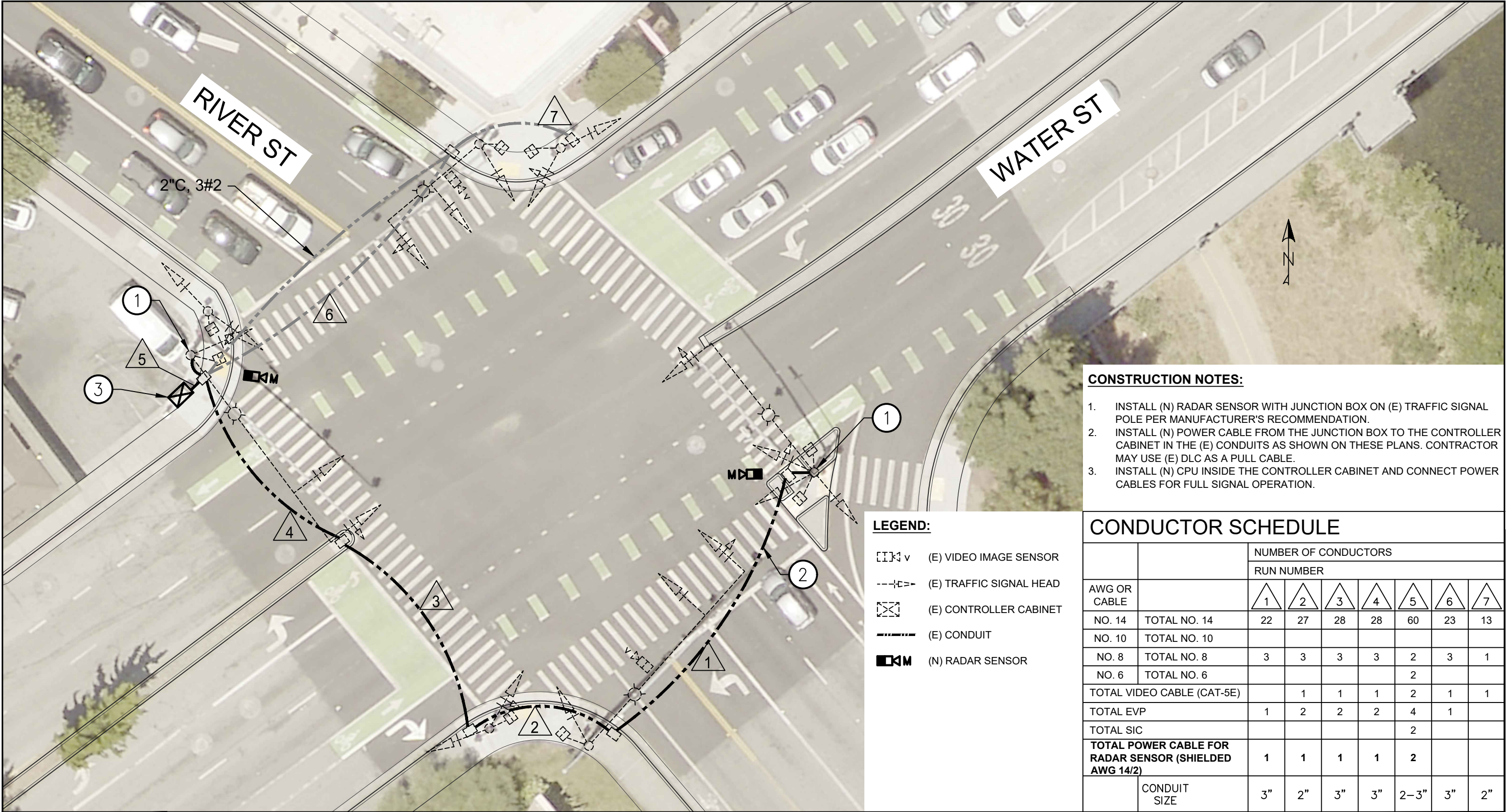
CITY OF
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PUBLIC WORKS DEPARTMENT
809 Center Street, Room 201
Santa Cruz, CA 95060

HSIP10 - ADVANCE DILEMMA ZONE

& RETROREFLECTIVE BORDERS

MISSION ST - CENTER ST - FRONT ST - PACIFIC AV

REFERENCES FIELD BOOK: # DRAWING #:	DATE	12/04/2024	SCALE 1" = 20'
	DRAWN	DnC	
	DESIGN	DnC	SHEET 11 OF 28 VAULT NO. 9213
	CHECKED	DE	



- CONSTRUCTION NOTES:**
1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLES FOR FULL SIGNAL OPERATION.

- LEGEND:**
- (E) VIDEO IMAGE SENSOR
 - (E) TRAFFIC SIGNAL HEAD
 - (E) CONTROLLER CABINET
 - (E) CONDUIT
 - (N) RADAR SENSOR

		NUMBER OF CONDUCTORS						
		RUN NUMBER						
AWG OR CABLE		1	2	3	4	5	6	7
NO. 14	TOTAL NO. 14	22	27	28	28	60	23	13
NO. 10	TOTAL NO. 10							
NO. 8	TOTAL NO. 8	3	3	3	3	2	3	1
NO. 6	TOTAL NO. 6					2		
TOTAL VIDEO CABLE (CAT-5E)			1	1	1	2	1	1
TOTAL EVP		1	2	2	2	4	1	
TOTAL SIC						2		
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)		1	1	1	1	2		
	CONDUIT SIZE	3"	2"	3"	3"	2-3"	3"	2"

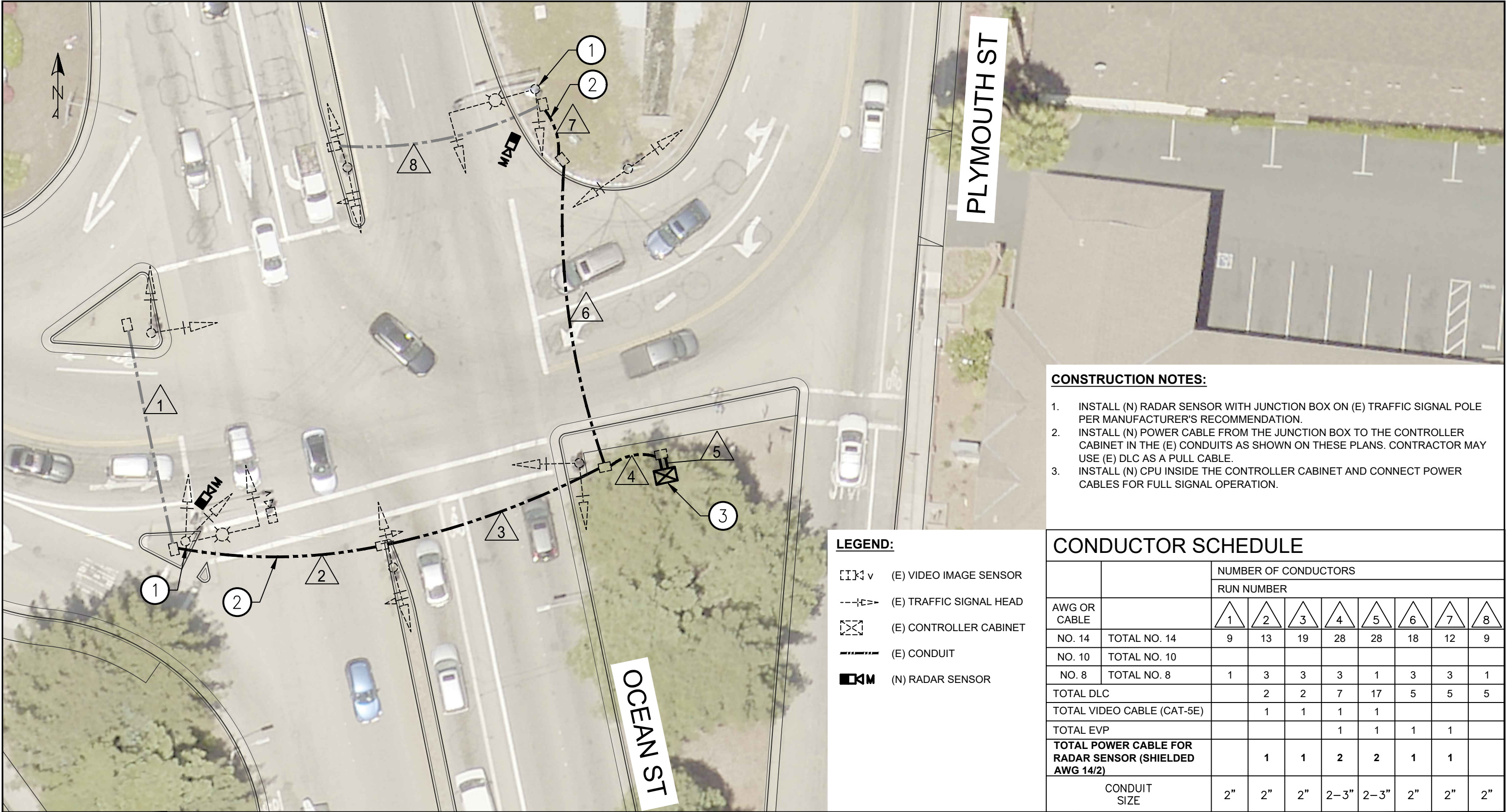
REVISIONS	

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HSIP10 - ADVANCE DILEMMA ZONE
& RETROREFLECTIVE BORDERS
WATER ST - RIVER ST

REFERENCES FIELD BOOK: # DRAWING #:	DATE 12/04/2024	SCALE 1" = 20'
	DRAWN DnC	
	DESIGN DnC	SHEET 12 OF 28
	CHECKED DE	

VAULT NO.
9213



- CONSTRUCTION NOTES:**
1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLES FOR FULL SIGNAL OPERATION.

- LEGEND:**
- (E) VIDEO IMAGE SENSOR
 - (E) TRAFFIC SIGNAL HEAD
 - (E) CONTROLLER CABINET
 - (E) CONDUIT
 - (N) RADAR SENSOR

		NUMBER OF CONDUCTORS							
		RUN NUMBER							
AWG OR CABLE		1	2	3	4	5	6	7	8
NO. 14	TOTAL NO. 14	9	13	19	28	28	18	12	9
NO. 10	TOTAL NO. 10								
NO. 8	TOTAL NO. 8	1	3	3	3	1	3	3	1
TOTAL DLC			2	2	7	17	5	5	5
TOTAL VIDEO CABLE (CAT-5E)			1	1	1	1			
TOTAL EVP					1	1	1	1	
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)			1	1	2	2	1	1	
CONDUIT SIZE		2"	2"	2"	2-3"	2-3"	2"	2"	2"

REVISIONS	

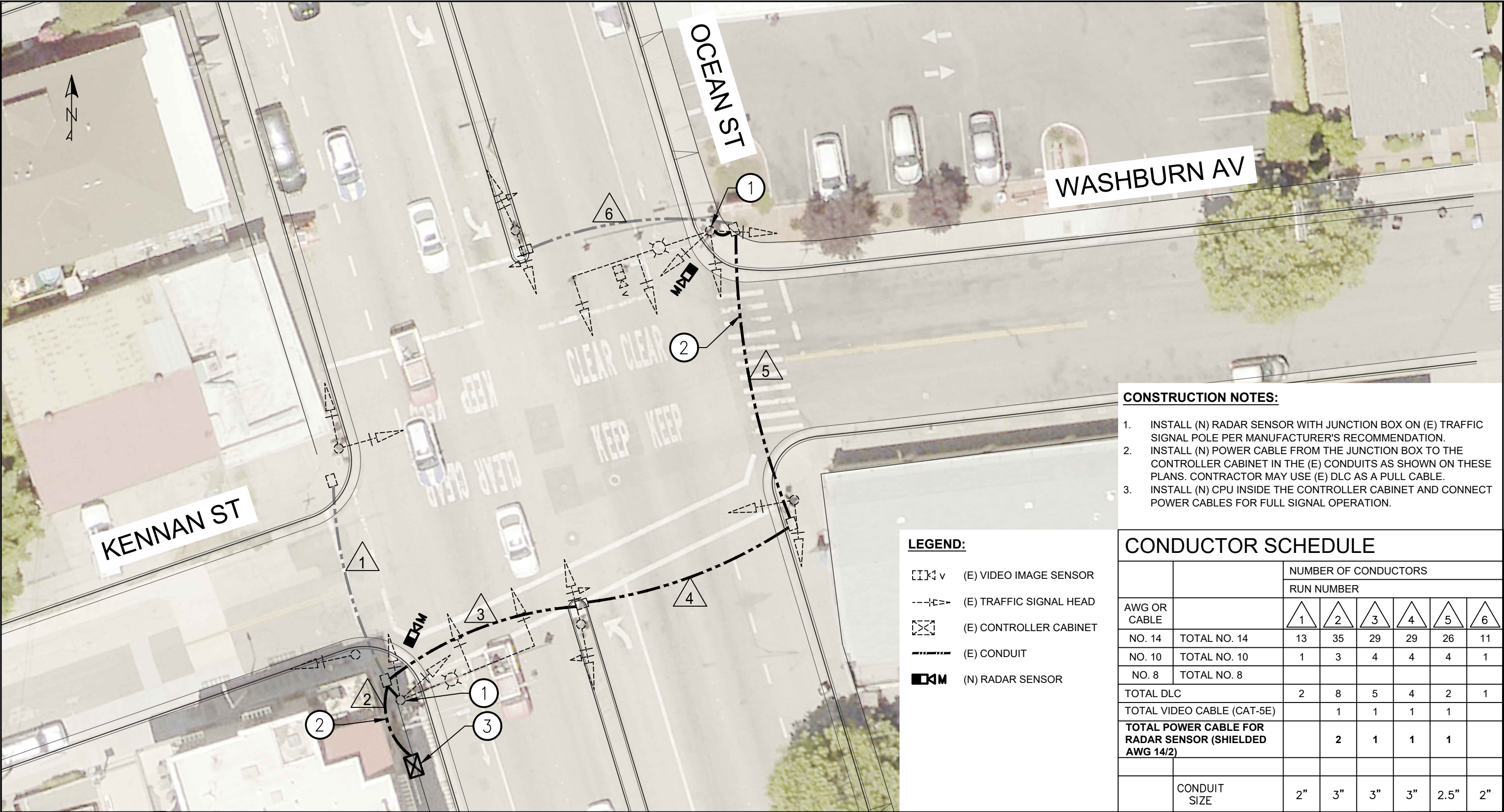
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Santa Cruz, CA 95060

HSIP10 - ADVANCE DILEMMA ZONE

& RETROREFLECTIVE BORDERS

OCEAN ST - PLYMOUTH ST

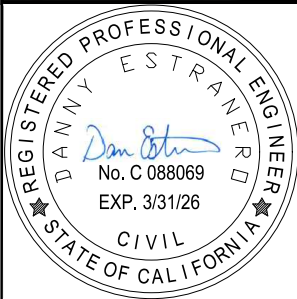
REFERENCES FIELD BOOK: # DRAWING #:	DATE 12/04/2024	SCALE 1" = 20' SHEET 13 OF 28 VAULT NO. 9213
	DRAWN DnC	
	DESIGN DnC	
	CHECKED DE	



- CONSTRUCTION NOTES:**
- 1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
 - 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
 - 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLES FOR FULL SIGNAL OPERATION.

- LEGEND:**
- (E) VIDEO IMAGE SENSOR
 - (E) TRAFFIC SIGNAL HEAD
 - (E) CONTROLLER CABINET
 - (E) CONDUIT
 - (N) RADAR SENSOR

		NUMBER OF CONDUCTORS					
		RUN NUMBER					
AWG OR CABLE		1	2	3	4	5	6
NO. 14	TOTAL NO. 14	13	35	29	29	26	11
NO. 10	TOTAL NO. 10	1	3	4	4	4	1
NO. 8	TOTAL NO. 8						
TOTAL DLC		2	8	5	4	2	1
TOTAL VIDEO CABLE (CAT-5E)			1	1	1	1	
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)			2	1	1	1	
	CONDUIT SIZE	2"	3"	3"	3"	2.5"	2"



REVISIONS	



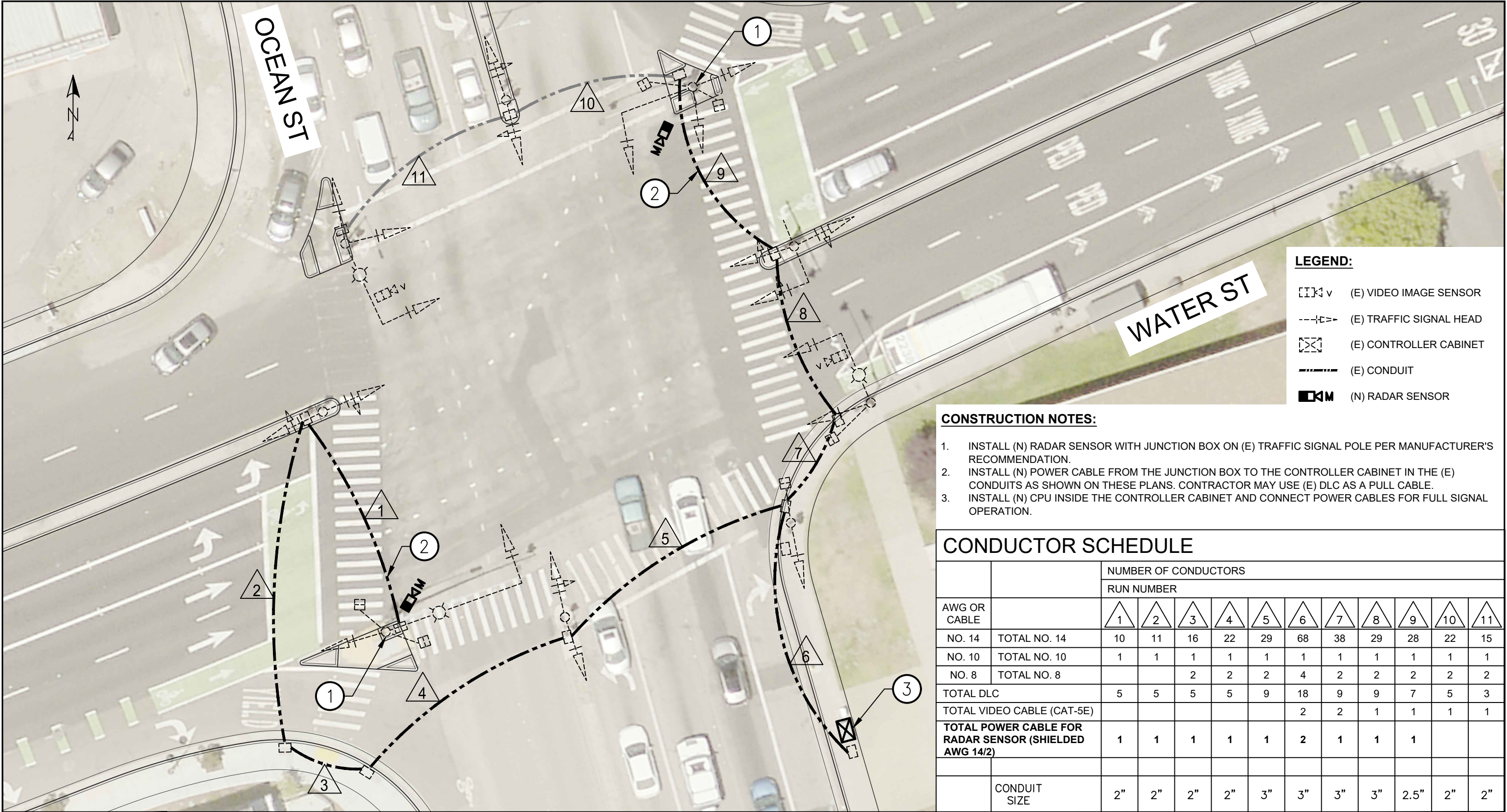
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& RETROREFLECTIVE BORDERS

OCEAN ST - WASHBURN AV - KENNAN ST

REFERENCES FIELD BOOK: # DRAWING #:	DATE 12/04/2024	SCALE 1" = 20'
	DRAWN DnC	
	DESIGN DnC	SHEET 14 OF 28
	CHECKED DE	VAULT NO. 9213



REGISTERED PROFESSIONAL ENGINEER
DANNY ESTRANERO
No. C 088069
EXP. 3/31/26
CIVIL
STATE OF CALIFORNIA

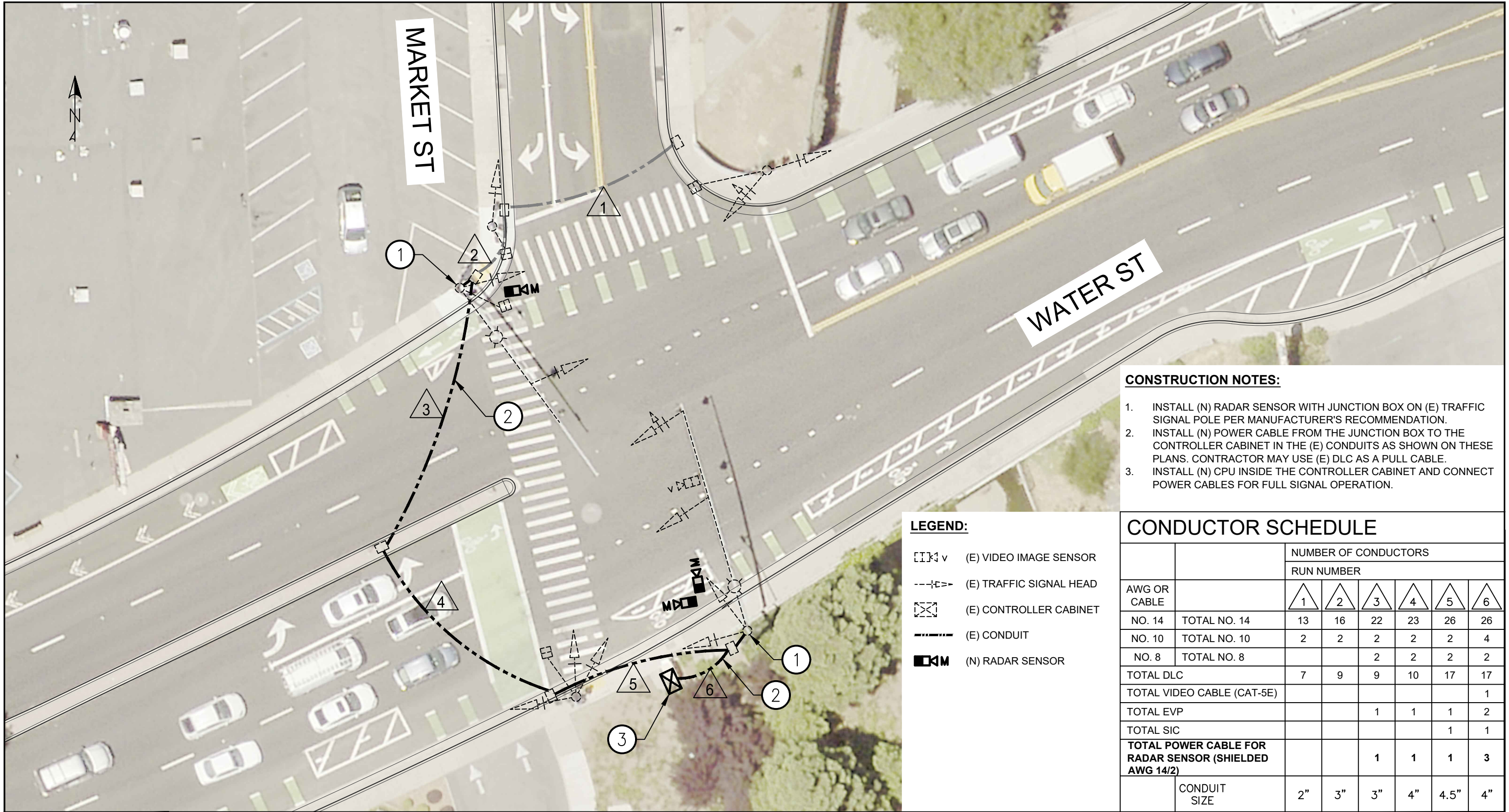
REVISIONS	

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Santa Cruz, CA 95060

HSIP10 - ADVANCE DILEMMA ZONE
& RETROREFLECTIVE BORDERS
OCEAN ST - WATER ST

REFERENCES FIELD BOOK: # DRAWING #:	DATE 12/04/2024	SCALE 1" = 20'
	DRAWN DnC	
	DESIGN DnC	
	CHECKED DE	

SHEET 15 OF 28
VAULT NO. 9213



- CONSTRUCTION NOTES:**
1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLES FOR FULL SIGNAL OPERATION.

- LEGEND:**
- (E) VIDEO IMAGE SENSOR
 - (E) TRAFFIC SIGNAL HEAD
 - (E) CONTROLLER CABINET
 - (E) CONDUIT
 - (N) RADAR SENSOR

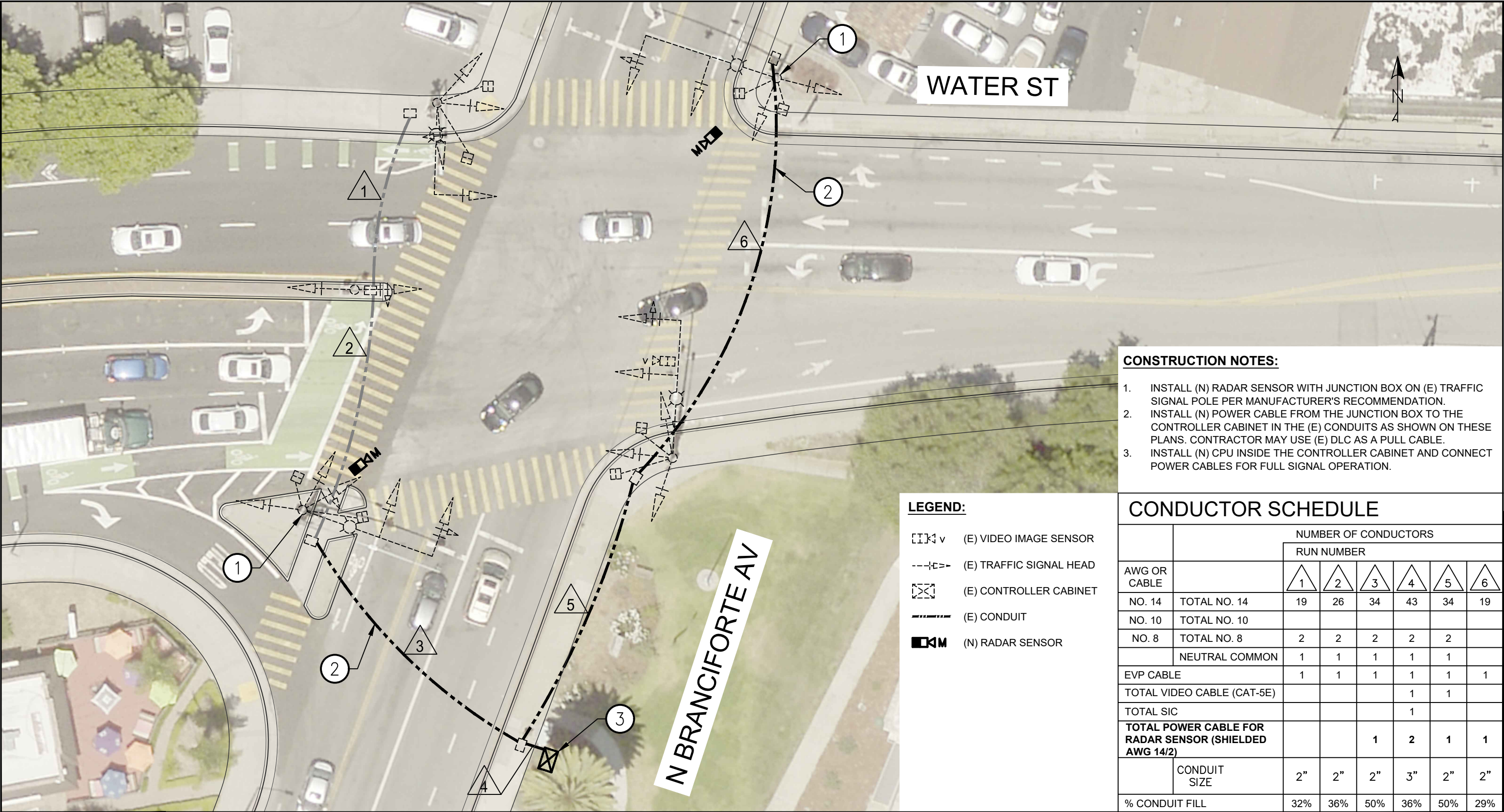
		NUMBER OF CONDUCTORS					
		RUN NUMBER					
AWG OR CABLE		1	2	3	4	5	6
NO. 14	TOTAL NO. 14	13	16	22	23	26	26
NO. 10	TOTAL NO. 10	2	2	2	2	2	4
NO. 8	TOTAL NO. 8			2	2	2	2
TOTAL DLC		7	9	9	10	17	17
TOTAL VIDEO CABLE (CAT-5E)							1
TOTAL EVP				1	1	1	2
TOTAL SIC						1	1
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)				1	1	1	3
	CONDUIT SIZE	2"	3"	3"	4"	4.5"	4"

REVISIONS	

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HSIP10 - ADVANCE DILEMMA ZONE
& RETROREFLECTIVE BORDERS
WATER ST - MARKET ST

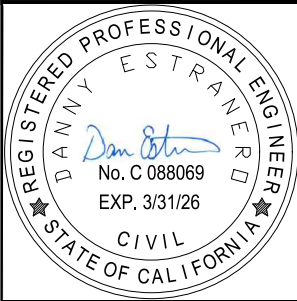
REFERENCES FIELD BOOK: # DRAWING #:	DATE 12/04/2024	SCALE 1" = 20'
	DRAWN DnC	
	DESIGN DnC	SHEET 16 OF 28
	CHECKED DE	VAULT NO. 9213



- CONSTRUCTION NOTES:**
- 1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
 - 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
 - 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLES FOR FULL SIGNAL OPERATION.

- LEGEND:**
- (E) VIDEO IMAGE SENSOR
 - (E) TRAFFIC SIGNAL HEAD
 - (E) CONTROLLER CABINET
 - (E) CONDUIT
 - (N) RADAR SENSOR

		NUMBER OF CONDUCTORS					
		RUN NUMBER					
AWG OR CABLE		1	2	3	4	5	6
NO. 14	TOTAL NO. 14	19	26	34	43	34	19
NO. 10	TOTAL NO. 10						
NO. 8	TOTAL NO. 8	2	2	2	2	2	
	NEUTRAL COMMON	1	1	1	1	1	
EVP CABLE		1	1	1	1	1	1
TOTAL VIDEO CABLE (CAT-5E)					1	1	
TOTAL SIC					1		
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)				1	2	1	1
	CONDUIT SIZE	2"	2"	2"	3"	2"	2"
% CONDUIT FILL		32%	36%	50%	36%	50%	29%



REVISIONS	



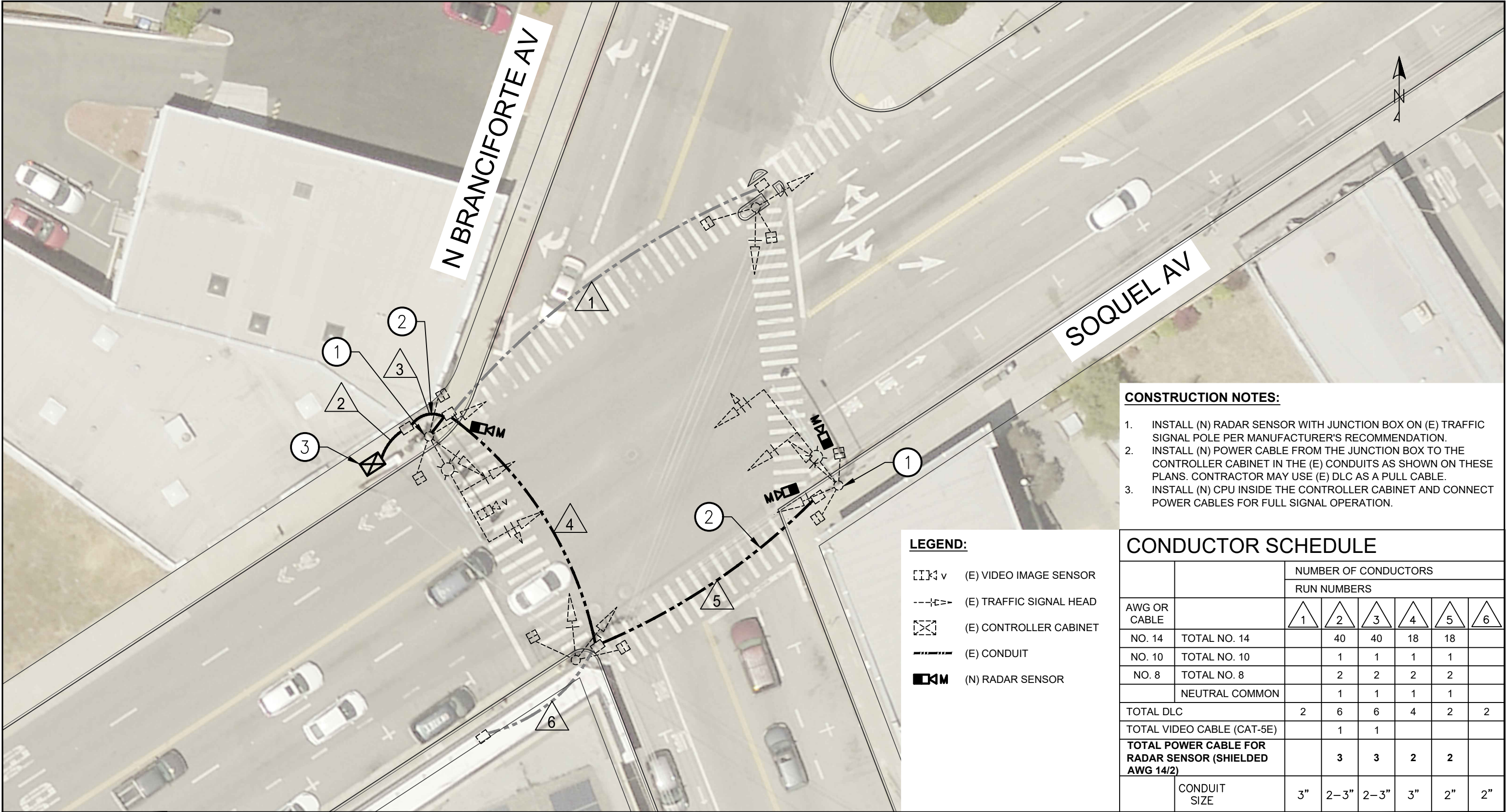
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HSIP10 - ADVANCE DILEMMA ZONE

& RETROREFLECTIVE BORDERS

WATER ST - N BRANCIFORTE AV

REFERENCES FIELD BOOK: # DRAWING #:	DATE 12/04/2024	SCALE 1" = 20'
	DRAWN DnC	
	DESIGN DnC	SHEET 17 OF 28 VAULT NO. 9213
	CHECKED DE	



- CONSTRUCTION NOTES:**
- 1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
 - 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
 - 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLES FOR FULL SIGNAL OPERATION.

- LEGEND:**
- (E) VIDEO IMAGE SENSOR
 - (E) TRAFFIC SIGNAL HEAD
 - (E) CONTROLLER CABINET
 - (E) CONDUIT
 - (N) RADAR SENSOR

		NUMBER OF CONDUCTORS					
		RUN NUMBERS					
AWG OR CABLE		1	2	3	4	5	6
NO. 14	TOTAL NO. 14		40	40	18	18	
NO. 10	TOTAL NO. 10		1	1	1	1	
NO. 8	TOTAL NO. 8		2	2	2	2	
	NEUTRAL COMMON		1	1	1	1	
TOTAL DLC		2	6	6	4	2	2
TOTAL VIDEO CABLE (CAT-5E)			1	1			
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)			3	3	2	2	
	CONDUIT SIZE	3"	2-3"	2-3"	3"	2"	2"

REVISIONS	

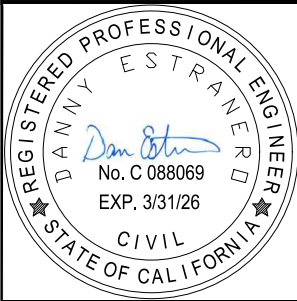
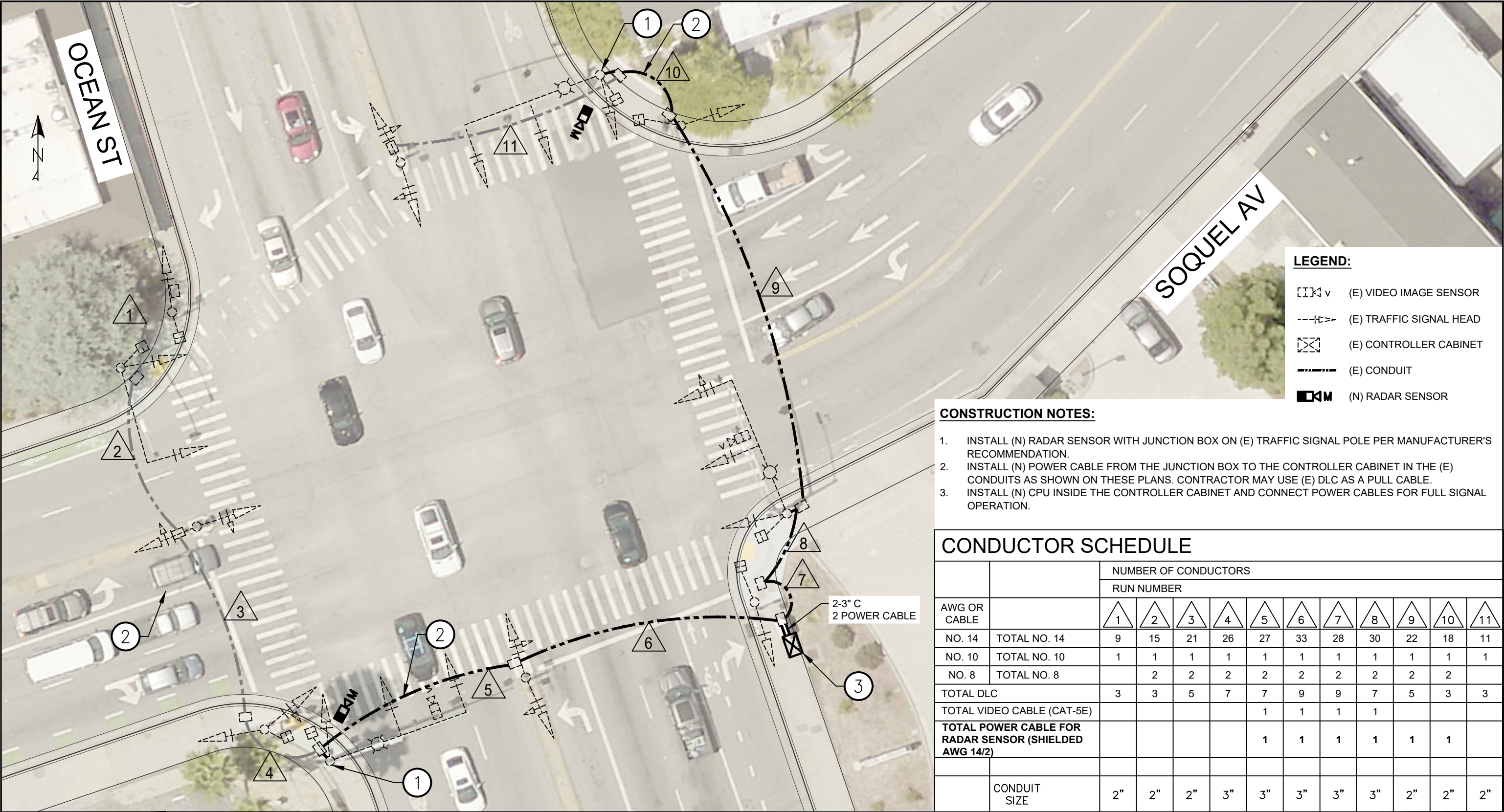
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Santa Cruz, CA 95060

HSIP10 - ADVANCE DILEMMA ZONE

& RETROREFLECTIVE BORDERS

SOQUEL AV - N BRANCIFORTE AV

REFERENCES FIELD BOOK: # DRAWING #:	DATE 12/04/2024	SCALE 1" = 20'
	DRAWN DnC	
	DESIGN DnC	SHEET 18 OF 28
	CHECKED DE	
		VAULT NO. 9213



REVISIONS	



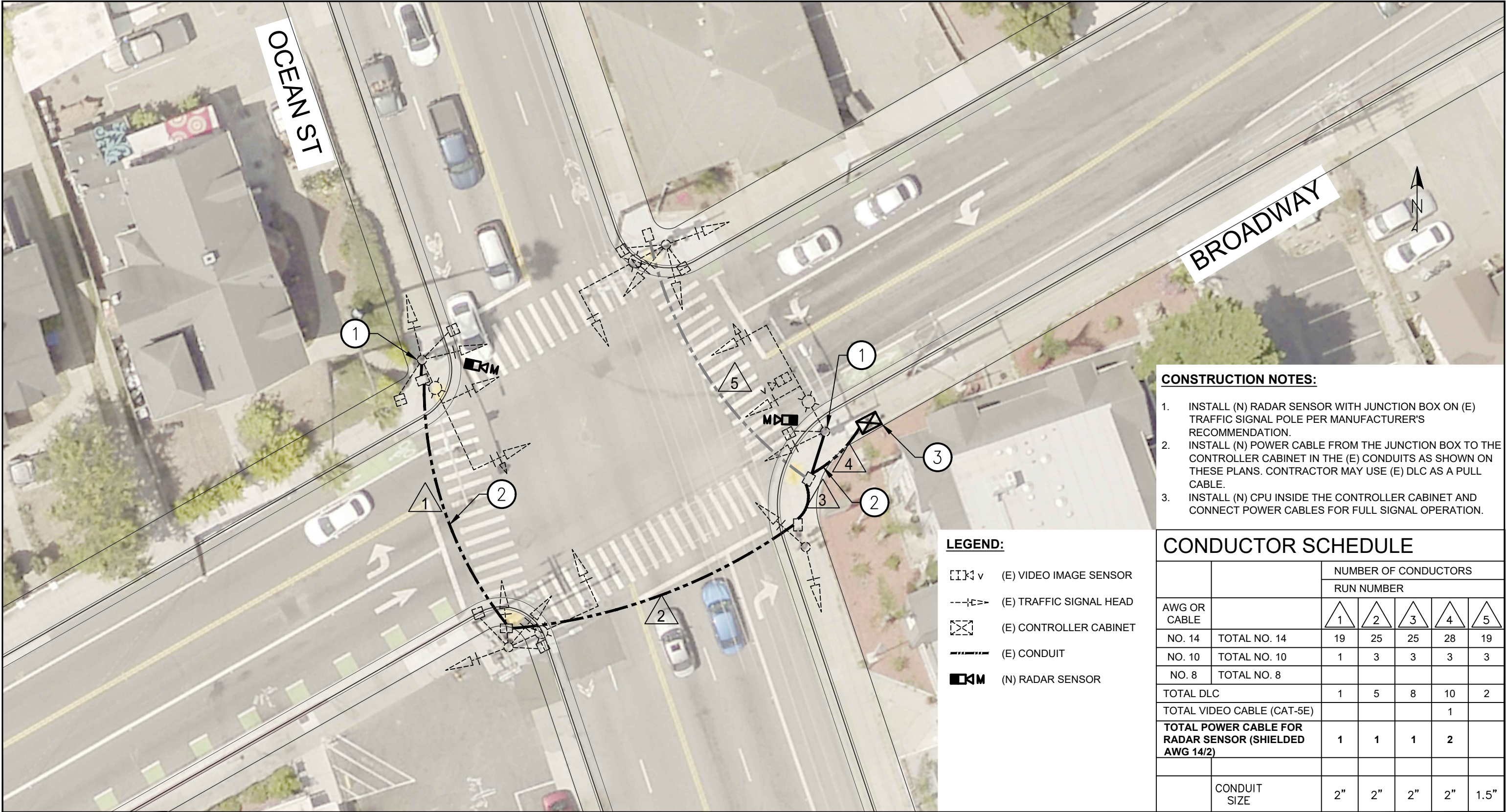
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HSIP10 - ADVANCE DILEMMA ZONE

& RETROREFLECTIVE BORDERS

OCEAN ST - SOQUEL AV

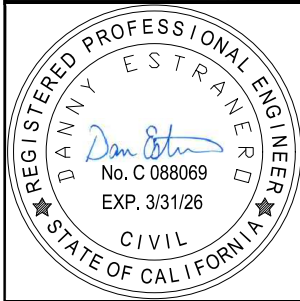
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	DRAWN DnC	
	DESIGN DnC	SHEET 19 OF 28
	CHECKED DE	
		VAULT NO. 9213



- CONSTRUCTION NOTES:**
- 1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
 - 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
 - 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLES FOR FULL SIGNAL OPERATION.

- LEGEND:**
- (E) VIDEO IMAGE SENSOR
 - (E) TRAFFIC SIGNAL HEAD
 - (E) CONTROLLER CABINET
 - (E) CONDUIT
 - (N) RADAR SENSOR

		NUMBER OF CONDUCTORS				
		RUN NUMBER				
AWG OR CABLE		1	2	3	4	5
NO. 14	TOTAL NO. 14	19	25	25	28	19
NO. 10	TOTAL NO. 10	1	3	3	3	3
NO. 8	TOTAL NO. 8					
TOTAL DLC		1	5	8	10	2
TOTAL VIDEO CABLE (CAT-5E)					1	
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)		1	1	1	2	
	CONDUIT SIZE	2"	2"	2"	2"	1.5"



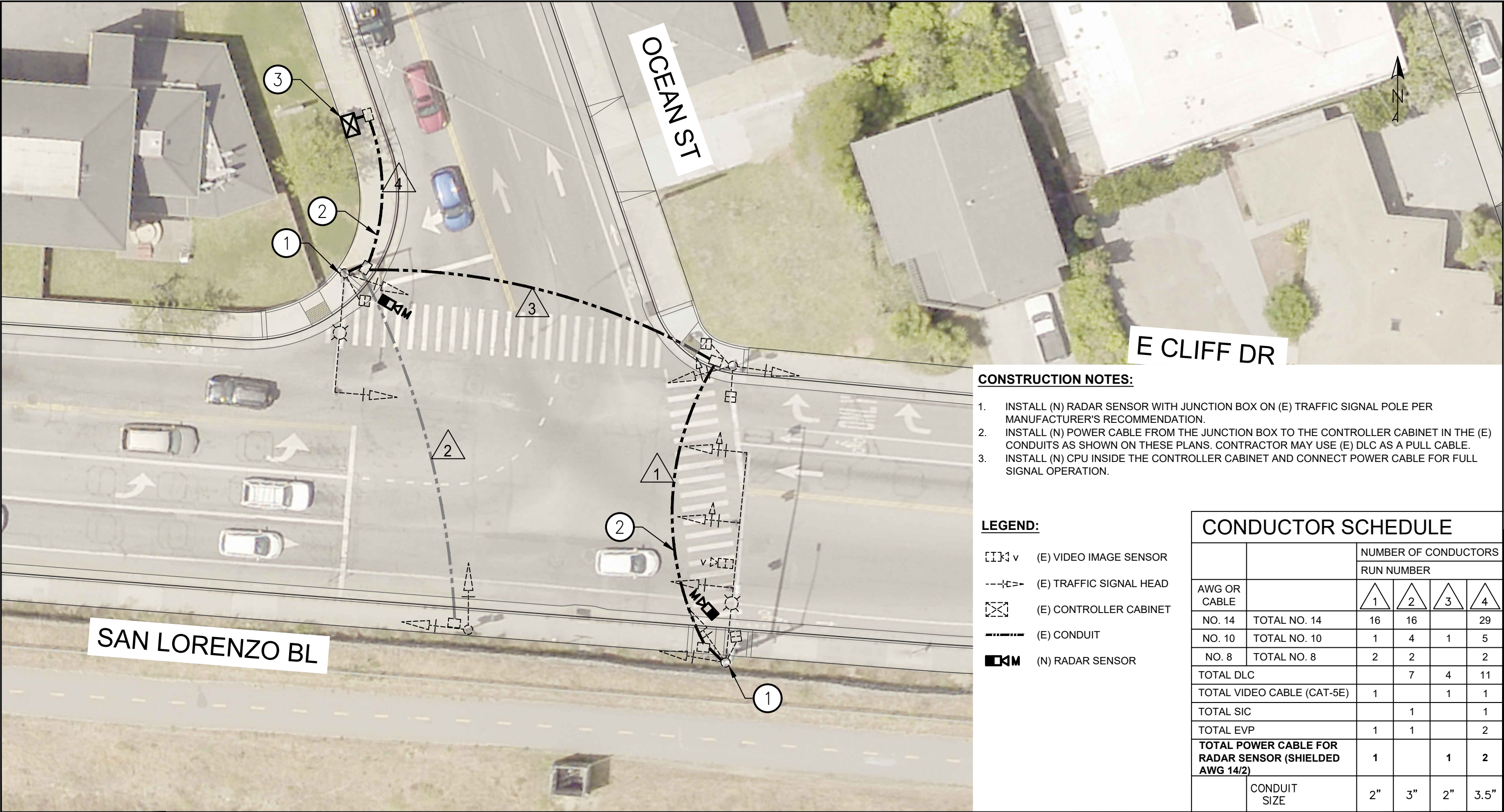
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HSIP10 - ADVANCE DILEMMA ZONE
& RETROREFLECTIVE BORDERS
OCEAN ST - BROADWAY

REFERENCES FIELD BOOK: # DRAWING #:	DATE	12/04/2024	SCALE 1" = 20'
	DRAWN	DnC	
	DESIGN	DnC	SHEET 20 OF 28 VAULT NO. 9213
	CHECKED	DE	



CONSTRUCTION NOTES:

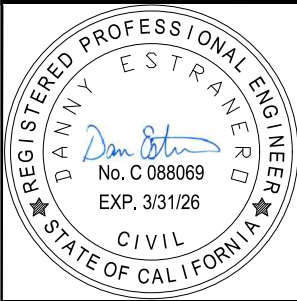
- 1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
- 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
- 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLE FOR FULL SIGNAL OPERATION.

LEGEND:

- (E) VIDEO IMAGE SENSOR
- (E) TRAFFIC SIGNAL HEAD
- (E) CONTROLLER CABINET
- (E) CONDUIT
- (N) RADAR SENSOR

CONDUCTOR SCHEDULE

		NUMBER OF CONDUCTORS			
		RUN NUMBER			
AWG OR CABLE		1	2	3	4
NO. 14	TOTAL NO. 14	16	16		29
NO. 10	TOTAL NO. 10	1	4	1	5
NO. 8	TOTAL NO. 8	2	2		2
TOTAL DLC			7	4	11
TOTAL VIDEO CABLE (CAT-5E)		1		1	1
TOTAL SIC			1		1
TOTAL EVP		1	1		2
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)		1		1	2
	CONDUIT SIZE	2"	3"	2"	3.5"



REVISIONS	



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HSIP10 - ADVANCE DILEMMA ZONE
& RETROREFLECTIVE BORDERS

OCEAN ST - E CLIFF DR - SAN LORENZO BL

REFERENCES

FIELD BOOK:
#

DRAWING #:

DATE 12/04/2024

DRAWN DnC

DESIGN DnC

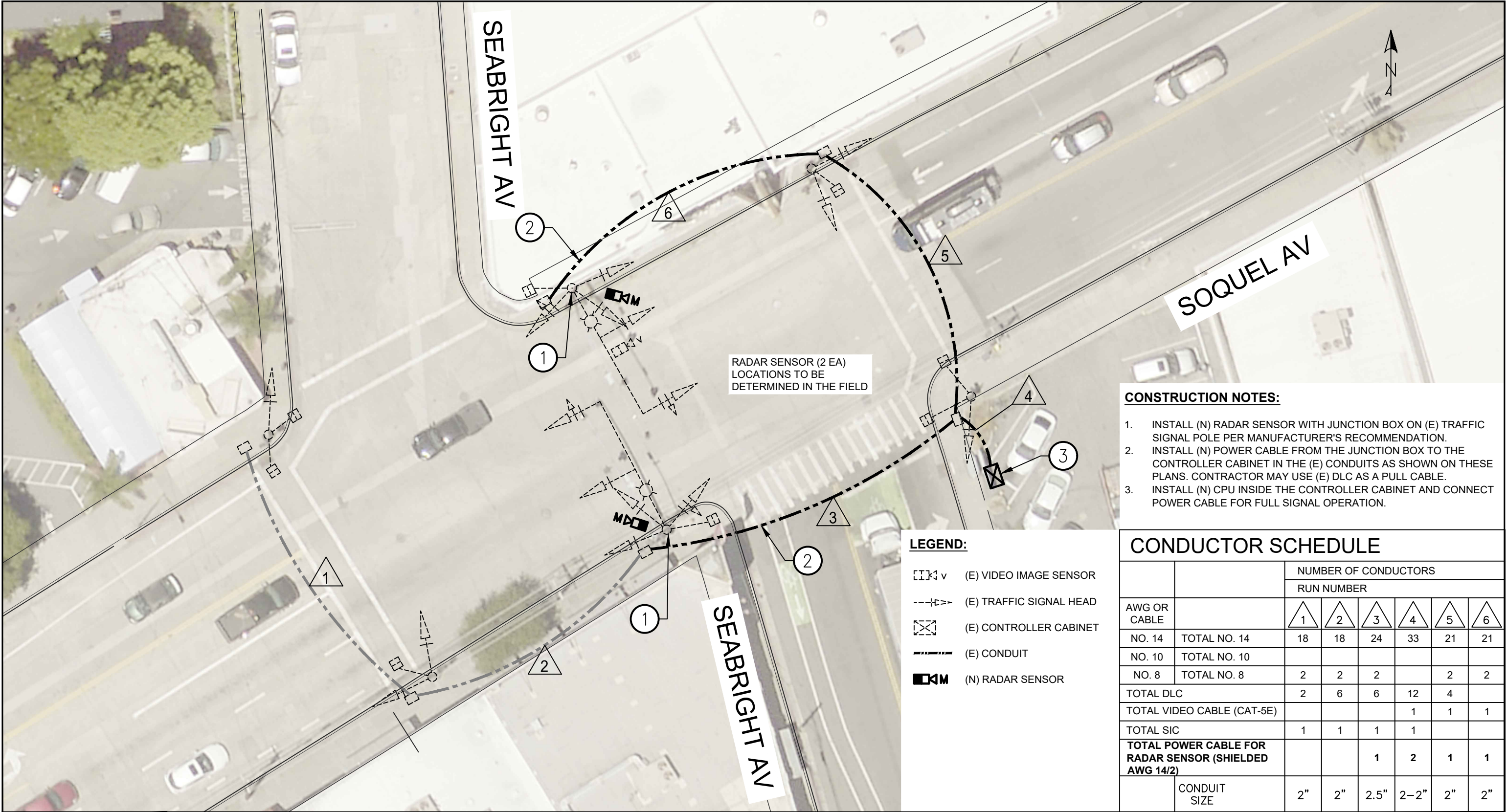
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SCALE 1" = 20'

SHEET 21 OF 28

VAULT NO.

9213



CONSTRUCTION NOTES:

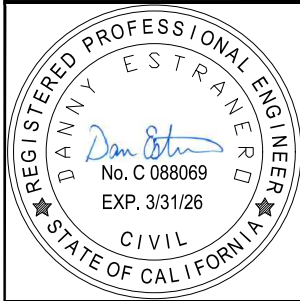
- 1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
- 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
- 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLE FOR FULL SIGNAL OPERATION.

LEGEND:

- (E) VIDEO IMAGE SENSOR
- (E) TRAFFIC SIGNAL HEAD
- (E) CONTROLLER CABINET
- (E) CONDUIT
- (N) RADAR SENSOR

CONDUCTOR SCHEDULE

		NUMBER OF CONDUCTORS					
		RUN NUMBER					
AWG OR CABLE		1	2	3	4	5	6
NO. 14	TOTAL NO. 14	18	18	24	33	21	21
NO. 10	TOTAL NO. 10						
NO. 8	TOTAL NO. 8	2	2	2		2	2
TOTAL DLC		2	6	6	12	4	
TOTAL VIDEO CABLE (CAT-5E)					1	1	1
TOTAL SIC		1	1	1	1		
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)				1	2	1	1
	CONDUIT SIZE	2"	2"	2.5"	2-2"	2"	2"



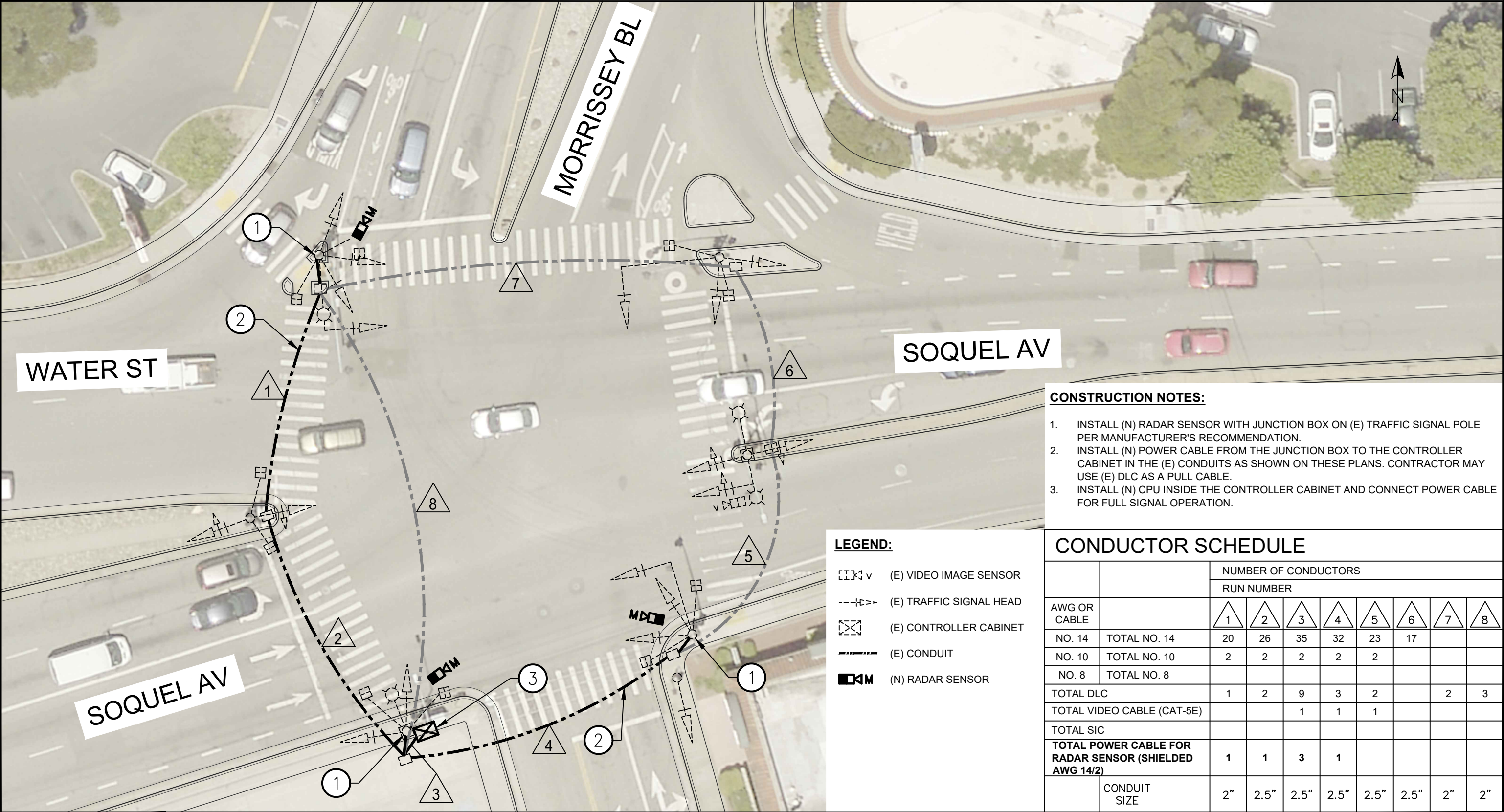
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Santa Cruz, CA 95060

HSIP10 - ADVANCE DILEMMA ZONE
& RETROREFLECTIVE BORDERS
SOQUEL AV - SEABRIGHT AV

REFERENCES FIELD BOOK: DRAWING #:	DATE	12/04/2024	SCALE 1" = 20'
	DRAWN	DnC	
	DESIGN	DnC	SHEET 22 OF 28 VAULT NO. 9213
	CHECKED	DE	



- CONSTRUCTION NOTES:**
- 1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
 - 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
 - 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLE FOR FULL SIGNAL OPERATION.

- LEGEND:**
- (E) VIDEO IMAGE SENSOR
 - (E) TRAFFIC SIGNAL HEAD
 - (E) CONTROLLER CABINET
 - (E) CONDUIT
 - (N) RADAR SENSOR

		NUMBER OF CONDUCTORS							
		RUN NUMBER							
AWG OR CABLE		1	2	3	4	5	6	7	8
NO. 14	TOTAL NO. 14	20	26	35	32	23	17		
NO. 10	TOTAL NO. 10	2	2	2	2	2			
NO. 8	TOTAL NO. 8								
TOTAL DLC		1	2	9	3	2		2	3
TOTAL VIDEO CABLE (CAT-5E)				1	1	1			
TOTAL SIC									
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)		1	1	3	1				
	CONDUIT SIZE	2"	2.5"	2.5"	2.5"	2.5"	2.5"	2"	2"

REVISIONS	

CITY OF
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PUBLIC WORKS DEPARTMENT
809 Center Street, Room 201
Santa Cruz, CA 95060

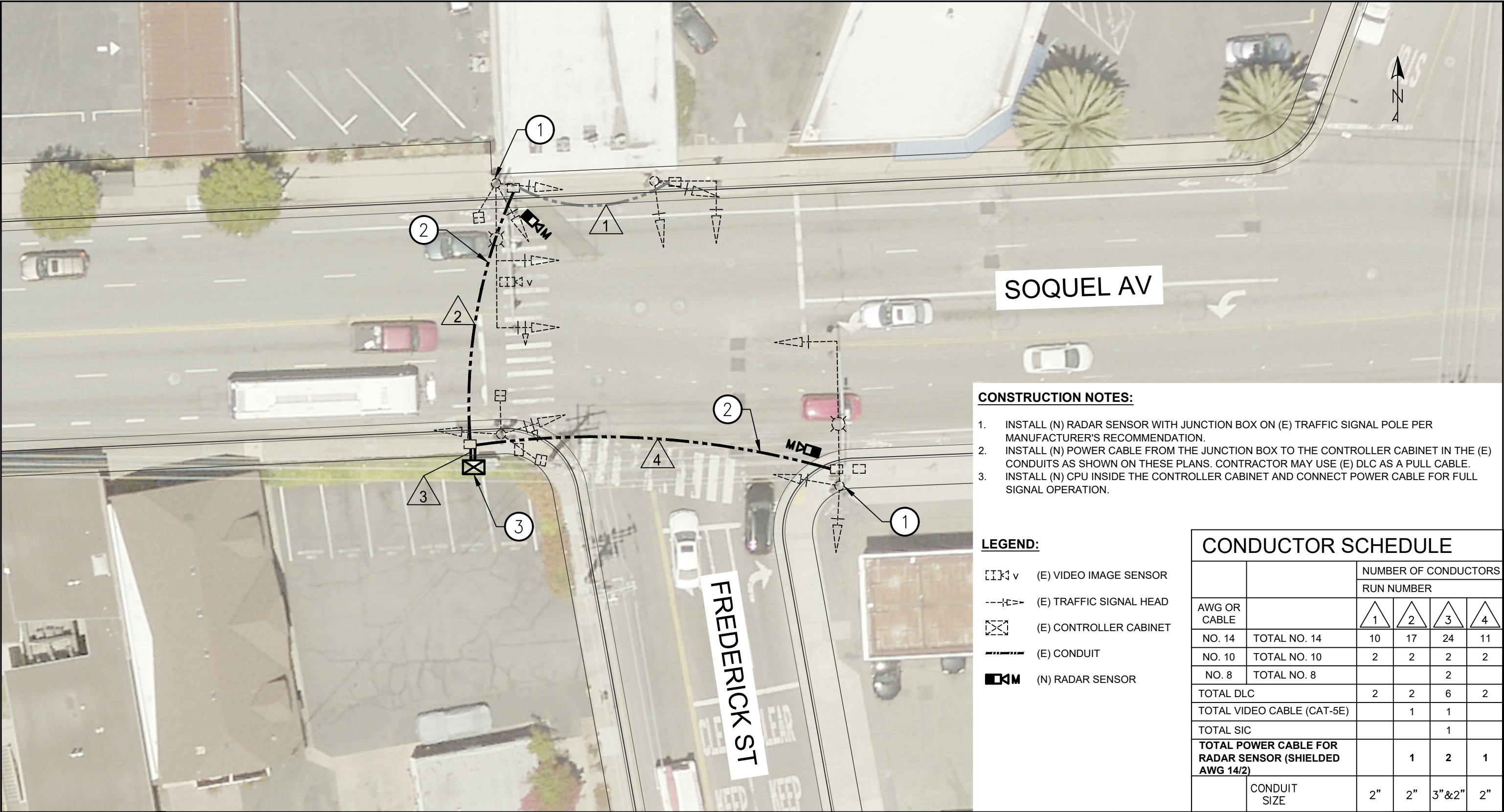
HSIP10 - ADVANCE DILEMMA ZONE

& RETROREFLECTIVE BORDERS

SOQUEL AVE - MRRISSEY BL - WATER ST

REFERENCES FIELD BOOK: # DRAWING #:	DATE 12/04/2024	SCALE 1" = 20'
	DRAWN DnC	
	DESIGN DnC	SHEET 23 OF 28
	CHECKED DE	

VAULT NO.
9213



CONSTRUCTION NOTES:

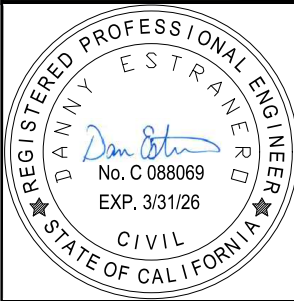
1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLE FOR FULL SIGNAL OPERATION.

LEGEND:

-  (E) VIDEO IMAGE SENSOR
-  (E) TRAFFIC SIGNAL HEAD
-  (E) CONTROLLER CABINET
-  (E) CONDUIT
-  (N) RADAR SENSOR

CONDUCTOR SCHEDULE

		NUMBER OF CONDUCTORS			
		RUN NUMBER			
AWG OR CABLE		1	2	3	4
NO. 14	TOTAL NO. 14	10	17	24	11
NO. 10	TOTAL NO. 10	2	2	2	2
NO. 8	TOTAL NO. 8			2	
TOTAL DLC		2	2	6	2
TOTAL VIDEO CABLE (CAT-5E)			1	1	
TOTAL SIC				1	
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)			1	2	1
	CONDUIT SIZE	2"	2"	3"&2"	2"



REVISIONS



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HSIP10 - ADVANCE DILEMMA ZONE
& RETROREFLECTIVE BORDERS
SOQUEL AV - FREDERICK ST

REFERENCES

FIELD BOOK:
#

DRAWING #:

DATE 12/04/2024

DRAWN DnC

DESIGN DnC

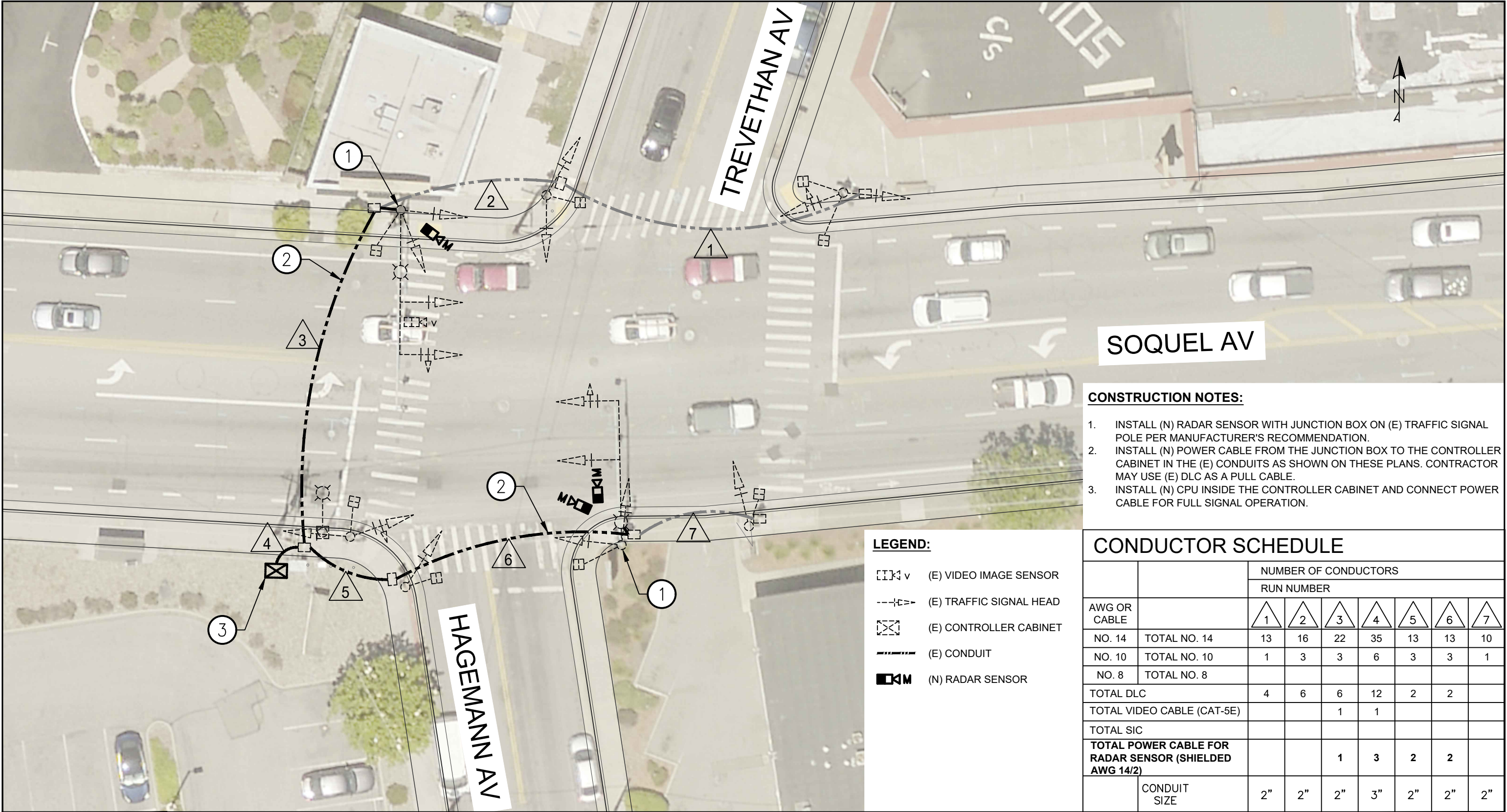
CHECKED DE

SCALE 1" = 20'

SHEET 24 OF 28

VAULT NO.

9213



SOQUEL AV

CONSTRUCTION NOTES:

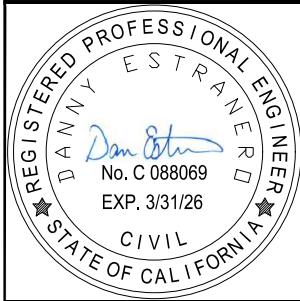
- 1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
- 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
- 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLE FOR FULL SIGNAL OPERATION.

LEGEND:

- (E) VIDEO IMAGE SENSOR
- (E) TRAFFIC SIGNAL HEAD
- (E) CONTROLLER CABINET
- (E) CONDUIT
- (N) RADAR SENSOR

CONDUCTOR SCHEDULE

		NUMBER OF CONDUCTORS						
		RUN NUMBER						
AWG OR CABLE		1	2	3	4	5	6	7
NO. 14	TOTAL NO. 14	13	16	22	35	13	13	10
NO. 10	TOTAL NO. 10	1	3	3	6	3	3	1
NO. 8	TOTAL NO. 8							
TOTAL DLC		4	6	6	12	2	2	
TOTAL VIDEO CABLE (CAT-5E)				1	1			
TOTAL SIC								
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)				1	3	2	2	
	CONDUIT SIZE	2"	2"	2"	3"	2"	2"	2"



REVISIONS	



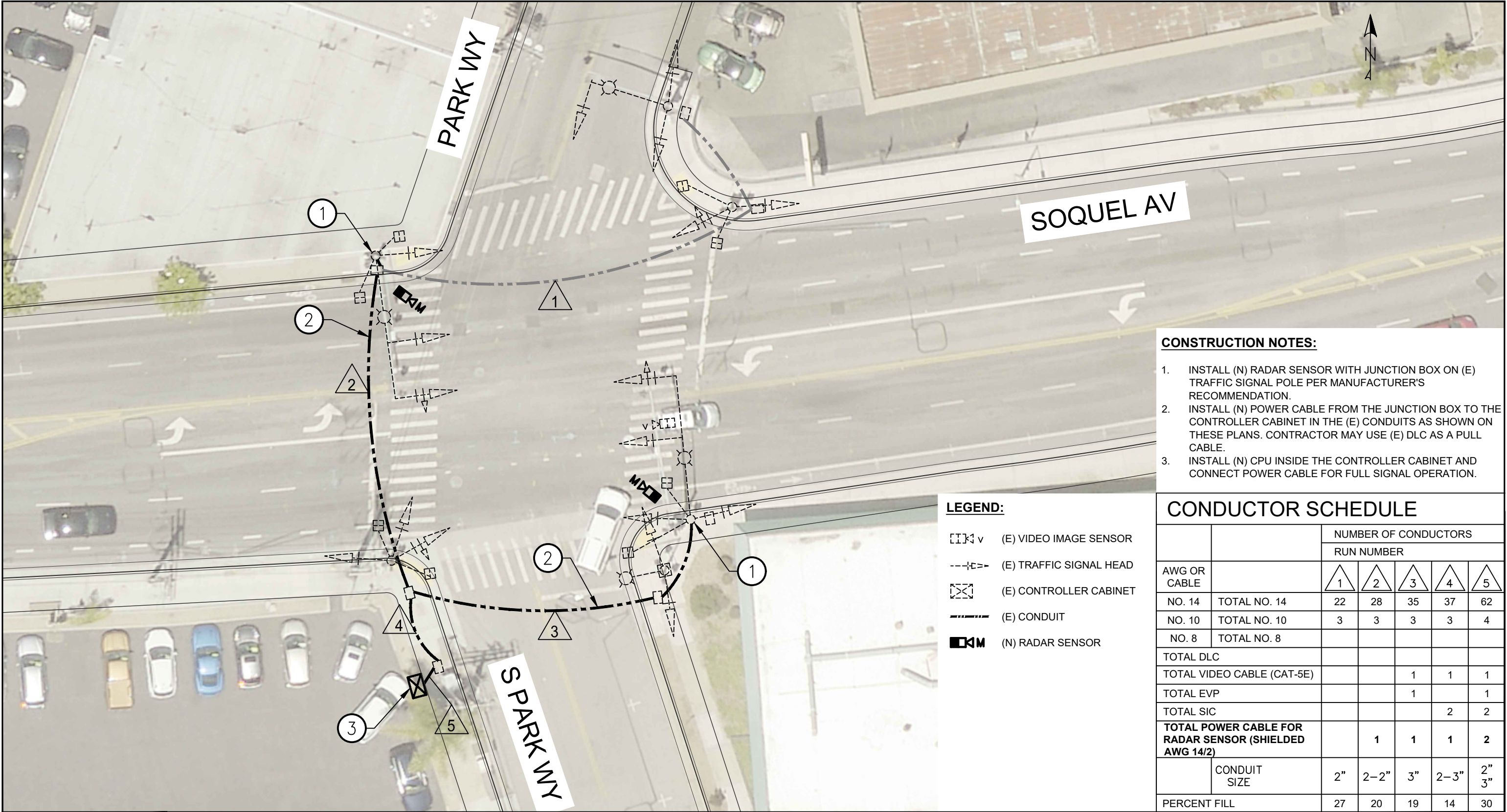
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HSIP10 - ADVANCE DILEMMA ZONE

& RETROREFLECTIVE BORDERS

SOQUEL AV - HAGEMANN AV - TRVETHAN AV

REFERENCES	DATE	12/04/2024	SCALE	1" = 20'
	DRAWN	DnC		
	DESIGN	DnC	SHEET	25 OF 28
	CHECKED	DE		
			VAULT NO.	
			9213	



- CONSTRUCTION NOTES:**
- 1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
 - 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
 - 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLE FOR FULL SIGNAL OPERATION.

- LEGEND:**
- (E) VIDEO IMAGE SENSOR
 - (E) TRAFFIC SIGNAL HEAD
 - (E) CONTROLLER CABINET
 - (E) CONDUIT
 - (N) RADAR SENSOR

		NUMBER OF CONDUCTORS				
		RUN NUMBER				
AWG OR CABLE		1	2	3	4	5
NO. 14	TOTAL NO. 14	22	28	35	37	62
NO. 10	TOTAL NO. 10	3	3	3	3	4
NO. 8	TOTAL NO. 8					
TOTAL DLC						
TOTAL VIDEO CABLE (CAT-5E)				1	1	1
TOTAL EVP				1		1
TOTAL SIC					2	2
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)			1	1	1	2
	CONDUIT SIZE	2"	2-2"	3"	2-3"	2" 3"
PERCENT FILL		27	20	19	14	30

REVISIONS	

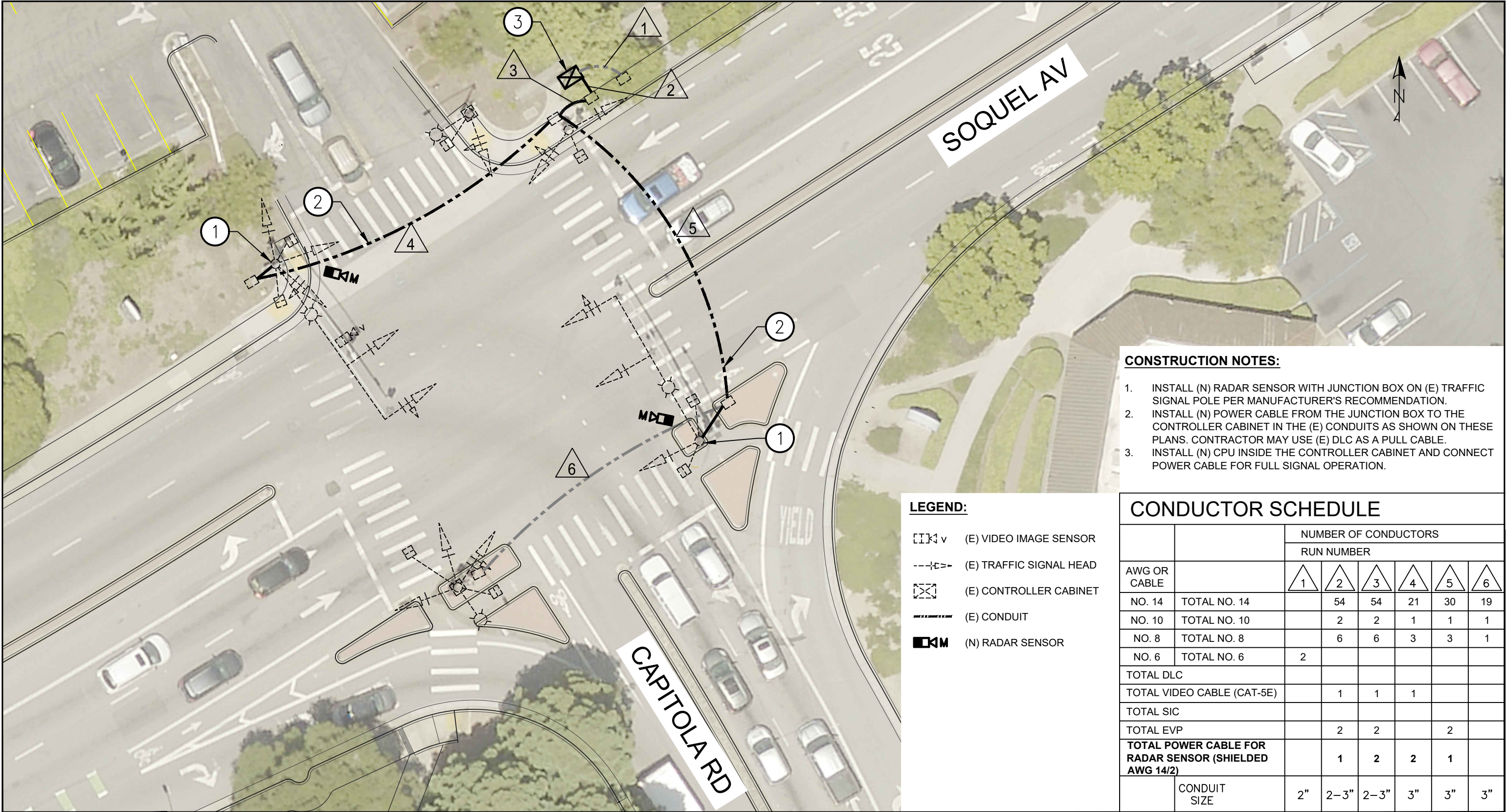
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HSIP10 - ADVANCE DILEMMA ZONE

& RETROREFLECTIVE BORDERS

SOQUEL AV - PARK WY

REFERENCES FIELD BOOK: # DRAWING #:	DATE 12/04/2024	SCALE 1" = 20'
	DRAWN DnC	
	DESIGN DnC	SHEET 26 OF 28
	CHECKED DE	
VAULT NO. 9213		



- CONSTRUCTION NOTES:**
- 1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
 - 2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
 - 3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLE FOR FULL SIGNAL OPERATION.

- LEGEND:**
- (E) VIDEO IMAGE SENSOR
 - (E) TRAFFIC SIGNAL HEAD
 - (E) CONTROLLER CABINET
 - (E) CONDUIT
 - (N) RADAR SENSOR

		NUMBER OF CONDUCTORS					
		RUN NUMBER					
AWG OR CABLE		1	2	3	4	5	6
NO. 14	TOTAL NO. 14		54	54	21	30	19
NO. 10	TOTAL NO. 10		2	2	1	1	1
NO. 8	TOTAL NO. 8		6	6	3	3	1
NO. 6	TOTAL NO. 6	2					
TOTAL DLC							
TOTAL VIDEO CABLE (CAT-5E)			1	1	1		
TOTAL SIC							
TOTAL EVP			2	2		2	
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)			1	2	2	1	
	CONDUIT SIZE	2"	2-3"	2-3"	3"	3"	3"

REVISIONS	

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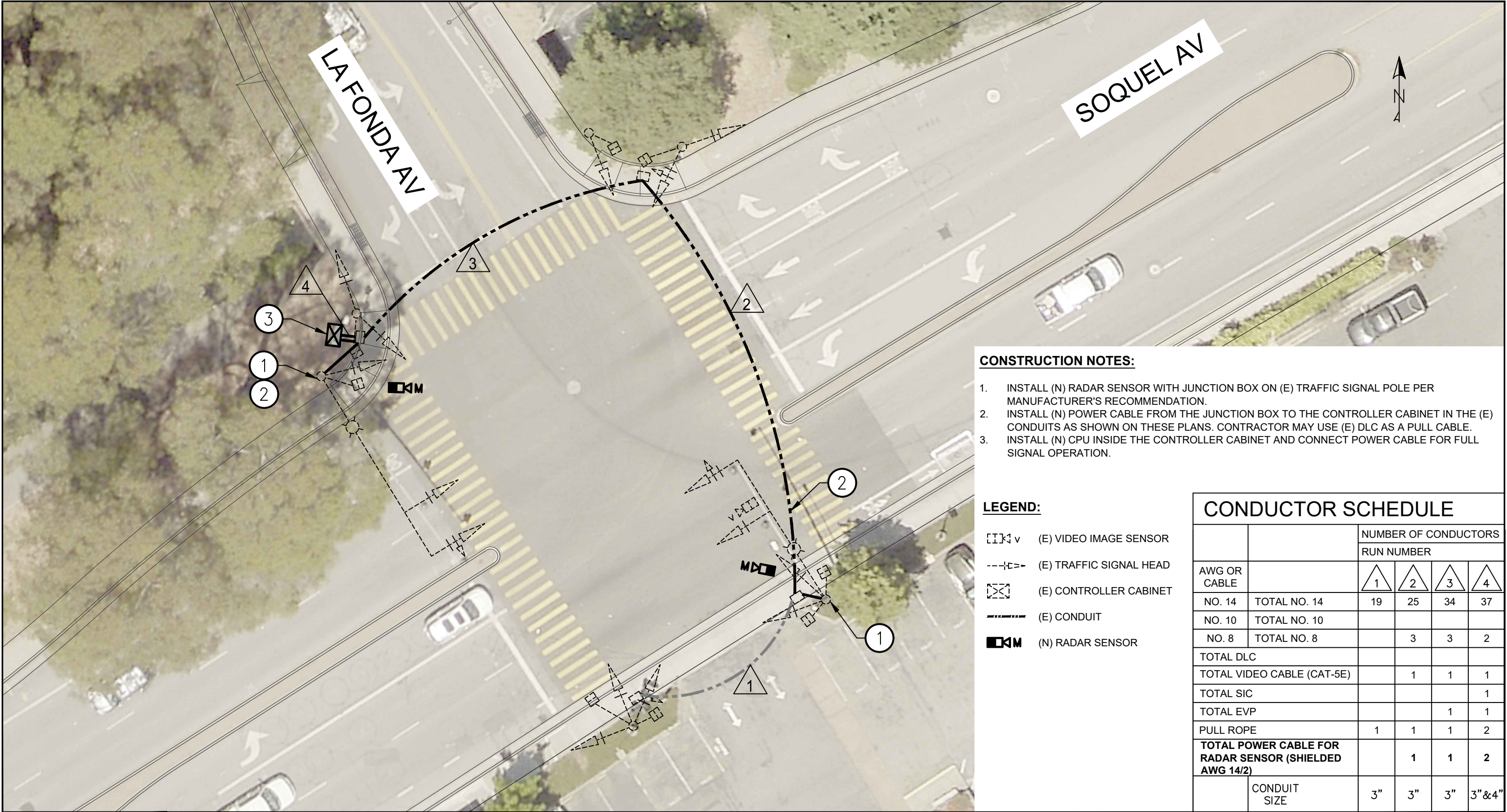
HSIP10 - ADVANCE DILEMMA ZONE

& RETROREFLECTIVE BORDERS

SOQUEL AV - CAPITOLA RD

REFERENCES FIELD BOOK: # DRAWING #:	DATE 12/04/2024	SCALE 1" = 20'
	DRAWN DnC	
	DESIGN DnC	SHEET 27 OF 28
	CHECKED DE	

VAULT NO.
9213



CONSTRUCTION NOTES:

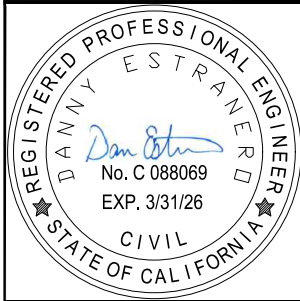
1. INSTALL (N) RADAR SENSOR WITH JUNCTION BOX ON (E) TRAFFIC SIGNAL POLE PER MANUFACTURER'S RECOMMENDATION.
2. INSTALL (N) POWER CABLE FROM THE JUNCTION BOX TO THE CONTROLLER CABINET IN THE (E) CONDUITS AS SHOWN ON THESE PLANS. CONTRACTOR MAY USE (E) DLC AS A PULL CABLE.
3. INSTALL (N) CPU INSIDE THE CONTROLLER CABINET AND CONNECT POWER CABLE FOR FULL SIGNAL OPERATION.

LEGEND:

- (E) VIDEO IMAGE SENSOR
- (E) TRAFFIC SIGNAL HEAD
- (E) CONTROLLER CABINET
- (E) CONDUIT
- (N) RADAR SENSOR

CONDUCTOR SCHEDULE

AWG OR CABLE	TOTAL NO.	NUMBER OF CONDUCTORS			
		RUN NUMBER			
		1	2	3	4
NO. 14	TOTAL NO. 14	19	25	34	37
NO. 10	TOTAL NO. 10				
NO. 8	TOTAL NO. 8		3	3	2
TOTAL DLC					
TOTAL VIDEO CABLE (CAT-5E)			1	1	1
TOTAL SIC					1
TOTAL EVP				1	1
PULL ROPE		1	1	1	2
TOTAL POWER CABLE FOR RADAR SENSOR (SHIELDED AWG 14/2)			1	1	2
	CONDUIT SIZE	3"	3"	3"	3"&4"



REVISIONS	



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HSIP10 - ADVANCE DILEMMA ZONE

& RETROREFLECTIVE BORDERS

SOQUEL AV - LA FONDA AV

REFERENCES FIELD BOOK: # DRAWING #:	DATE	12/04/2024	SCALE 1" = 20'
	DRAWN	DnC	
	DESIGN	DnC	SHEET 28 OF 28 VAULT NO. 9213
	CHECKED	DE	