

SFMTA - TASC SUMMARY SHEET

PreStaff_Date: 11/24/2020 Requested_by: SFMTA Handled: Philip Louie 701-4464 Section Head : MS <i>MS</i>	<input checked="" type="checkbox"/> Public Hearing Consent <input type="checkbox"/> Public Hearing Regular <input type="checkbox"/> Informational / Other <small>PH - Consent</small>	No objections: _____ Item Held: _____ Other: _____
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Location: 7th Avenue, Fulton Street and Woodside Avenue

Subject: Radar Speed Signs

PROPOSAL / REQUEST:

ESTABLISH - RADAR SPEED SIGNS

- 7th Avenue, southbound, between Lawton and Moraga Streets
- Fulton Street, westbound, between 16th and 17th Avenues
- Fulton Street, eastbound, between 38th and 39th Avenues
- Woodside Avenue, westbound, between Vasquez and Hernandez Streets (Supervisor Districts 1 and 7)

Installing radar speed signs to encourage drivers to comply with the speed limit.

Philip Louie, philip.louie@sfmta.com

BACKGROUND INFORMATION / COMMENTS

The 5 year Radar Speed Sign Program is proposing to install radar speed signs on 7th Avenue, Fulton Street and Woodside Avenue as part of the first year of this program. The locations were determined by staff feedback, volumes, speeds, collisions, speed limit changes, exhausting other traffic calming measures and if it's on the high injury network.

HEARING NOTIFICATION AND PROCESSING NOTES:

ENVIRONMENTAL CLEARANCE BY:

SFMTA Attached Pending

CHECK IF PREPARING SEPARATE SFMTA BOARD CALENDAR ITEM FOR PROPOSAL:



TRACKING COVER SHEET FOR LEGISLATION ITEMS WITHOUT CORLOG NUMBER

Request No.		Section	LIV
TSC No.		Staff Assigned	PL
Director's No.		Due Date	
Mayor's No.		Neighborhood	
Requested Date		School Name	
Received Date		Organization	

Firm	
Requested By	SFMTA
Address	
City/State/Zip	San Francisco, CA
Letter Subject	Radar Speed Signs

Subject Location	Work Description
7th Ave: Lawton-Moraga Sts, Fulton St: 16th-17th Aves, 38th-39th Aves, Woodside Ave near Vasquez Ave	

Additional Correspondence		Legislation	Action	Date
From/To	Date			
		TASC		
		Public Hearing		
		SFMTA Board		
		Board Committee		
		Board of Sups		
		Mayor's		
		Res/Ord No.		

Comment

Remarks

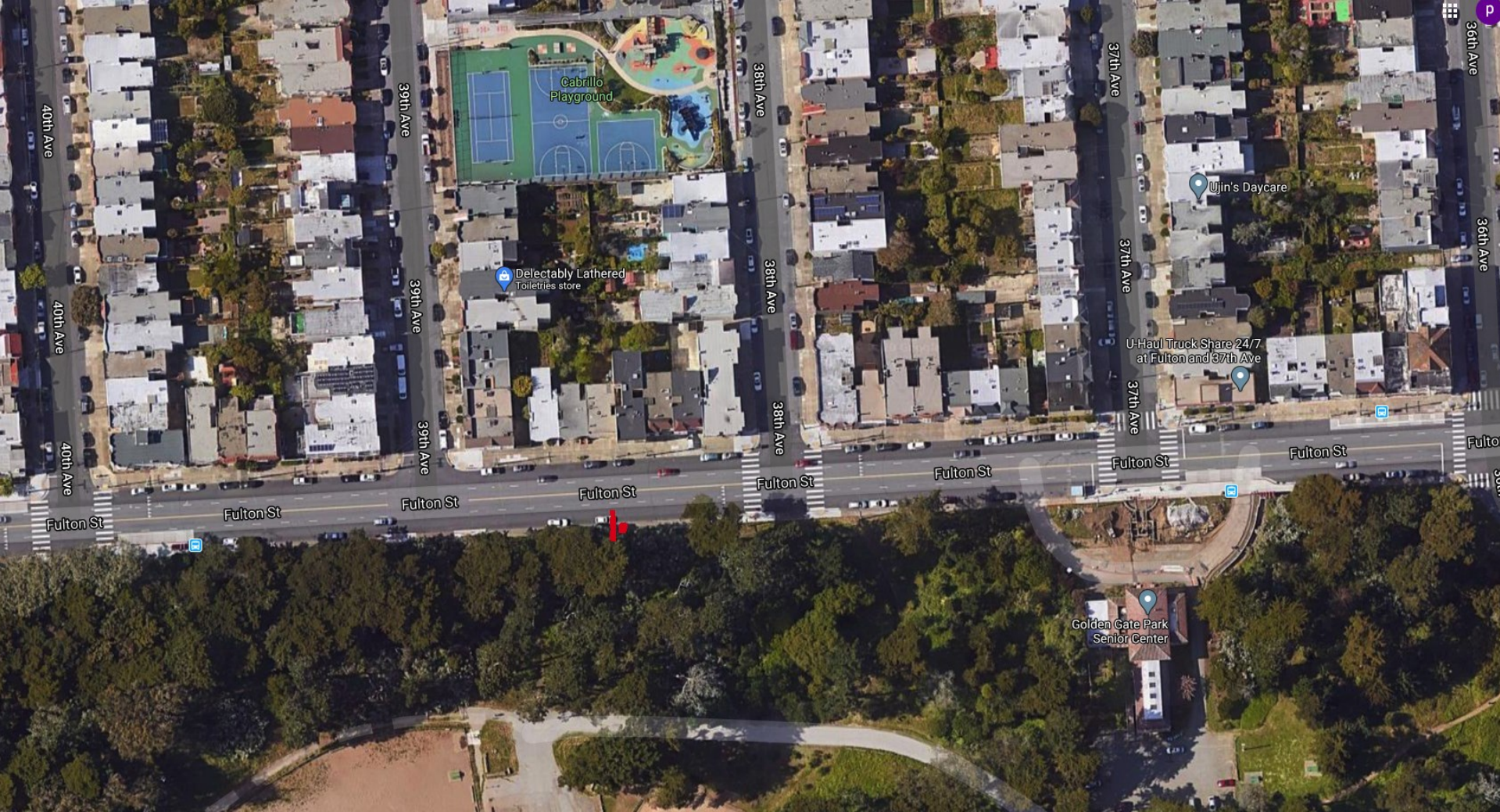
Proposed Location of Radar Speed Sign on 7th Avenue between Lawton and Moraga Streets



Proposed Location of Radar Speed Sign on Fulton Street between 16th and 17th Avenues



Proposed Location of Radar Speed Sign on Fulton Street between 38th and 39th Avenues



Proposed Location of Radar Speed Sign on Laguna Honda Boulevard between Balceta Avenue and Laguna Honda Boulevard

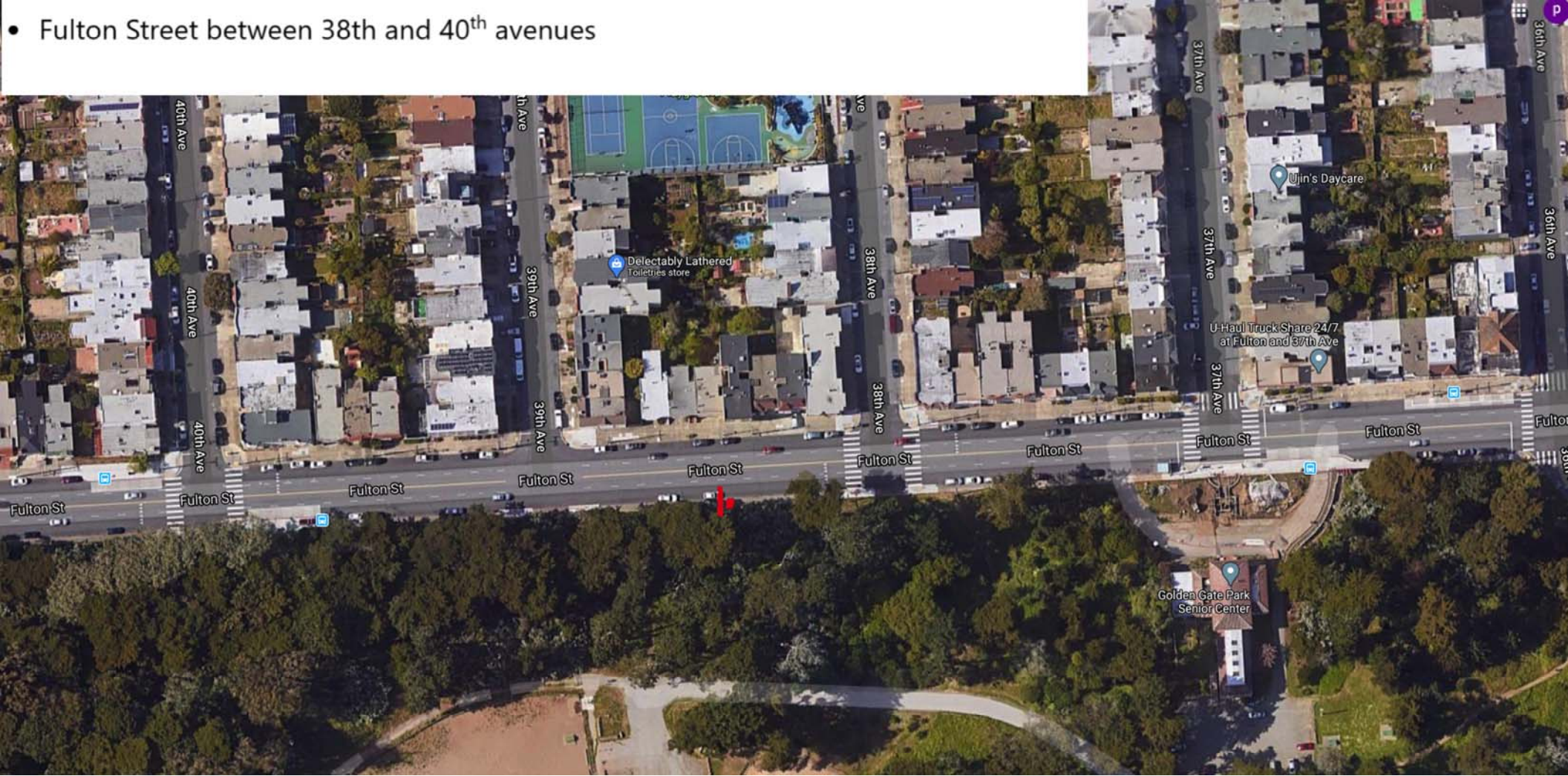


Attachment 1: Speed Radar Sign Locations

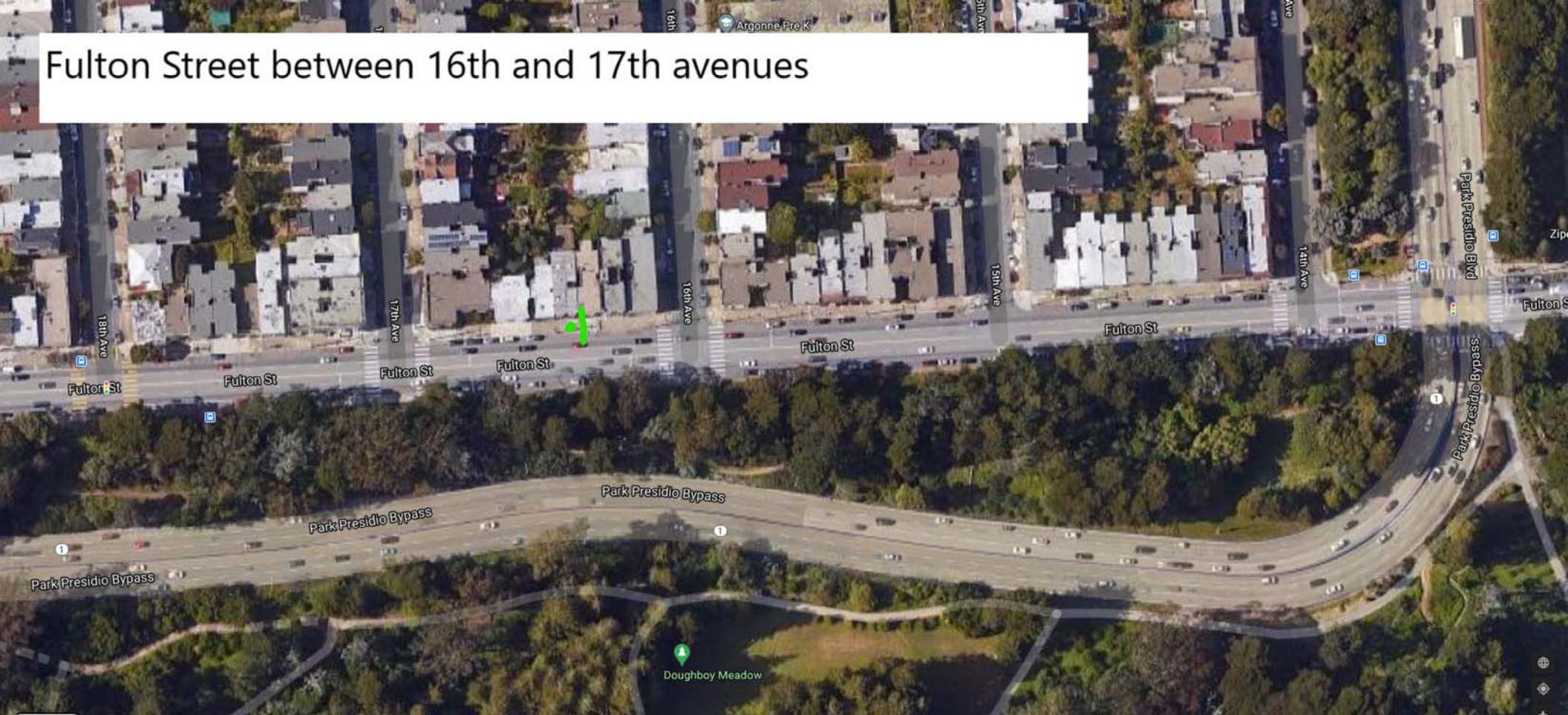
- 7th Avenue near Laguna Honda Boulevard and Lawton Street



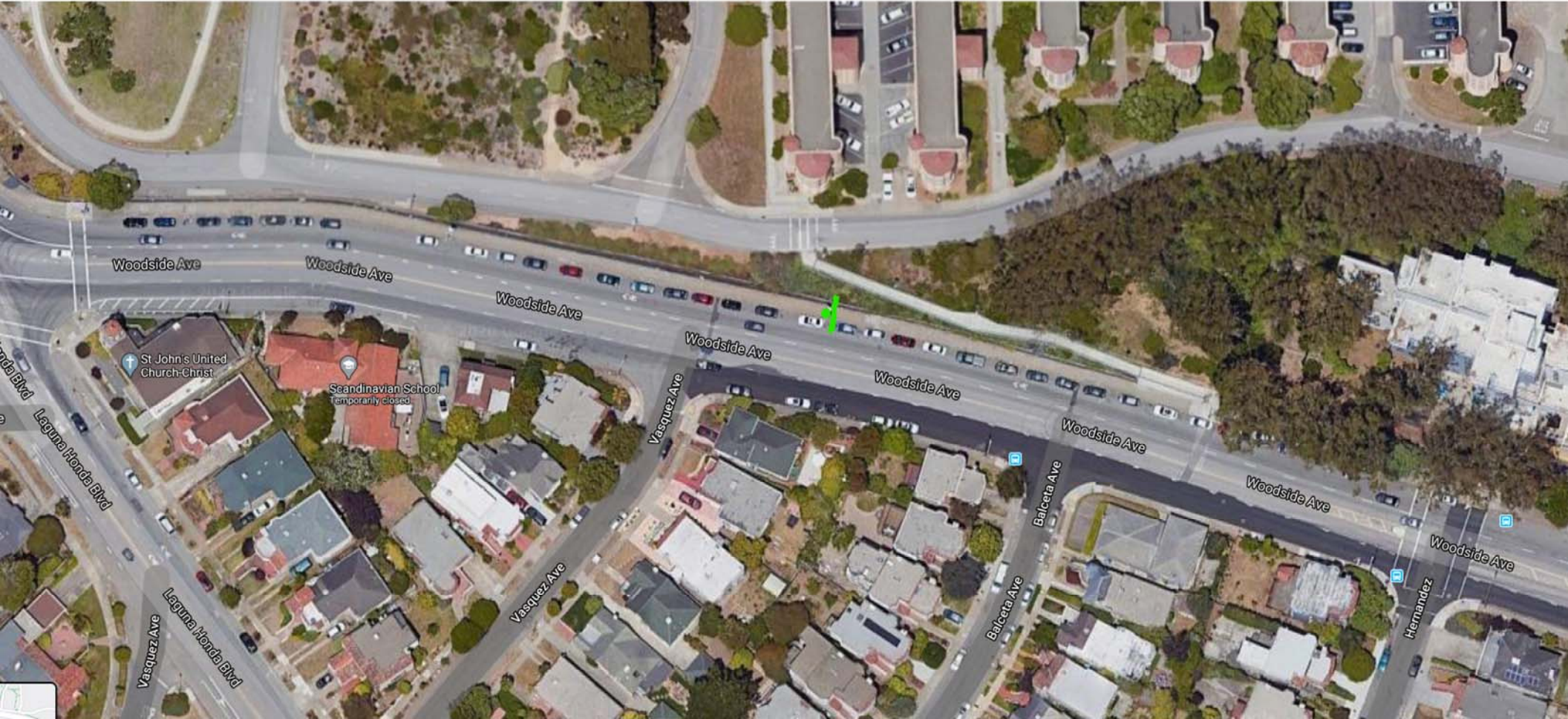
- Fulton Street between 38th and 40th avenues



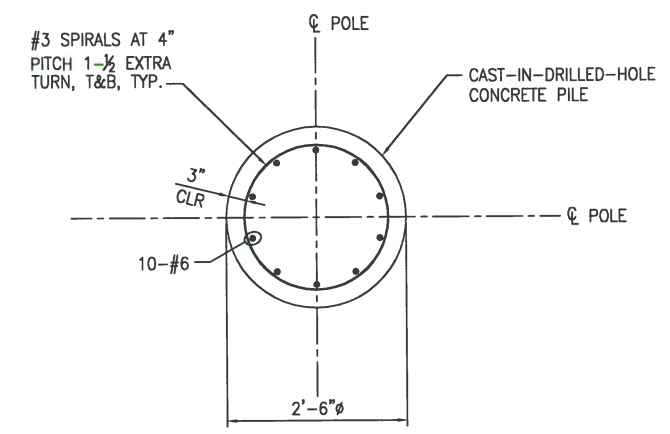
Fulton Street between 16th and 17th avenues



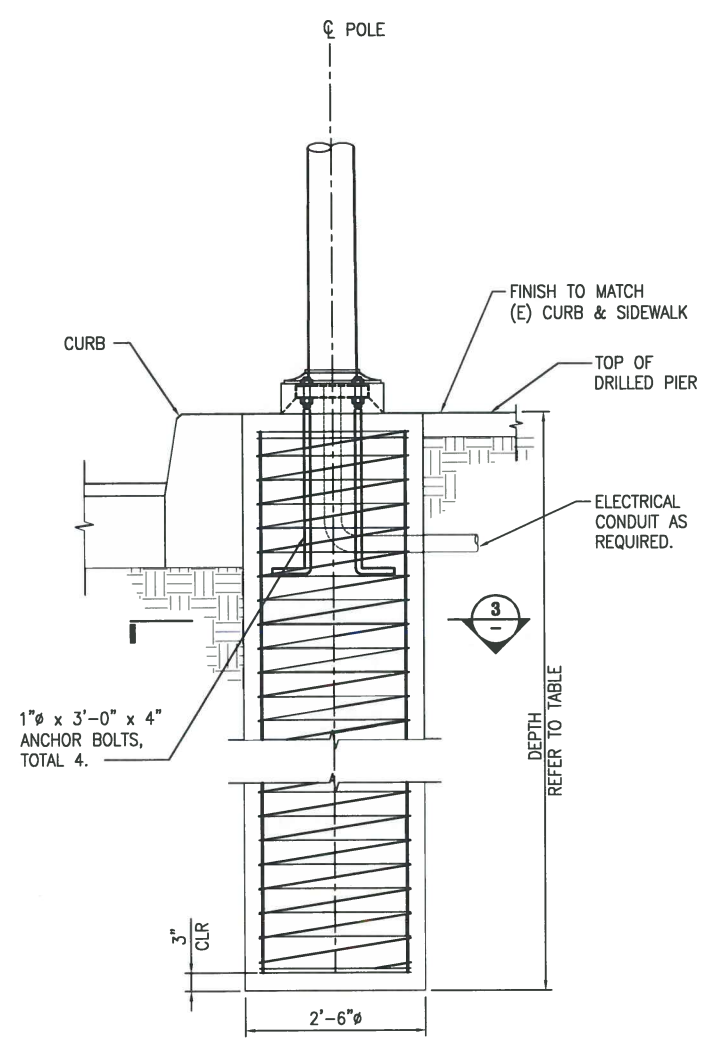
Woodside Avenue between Vasquez and Hernandez avenues



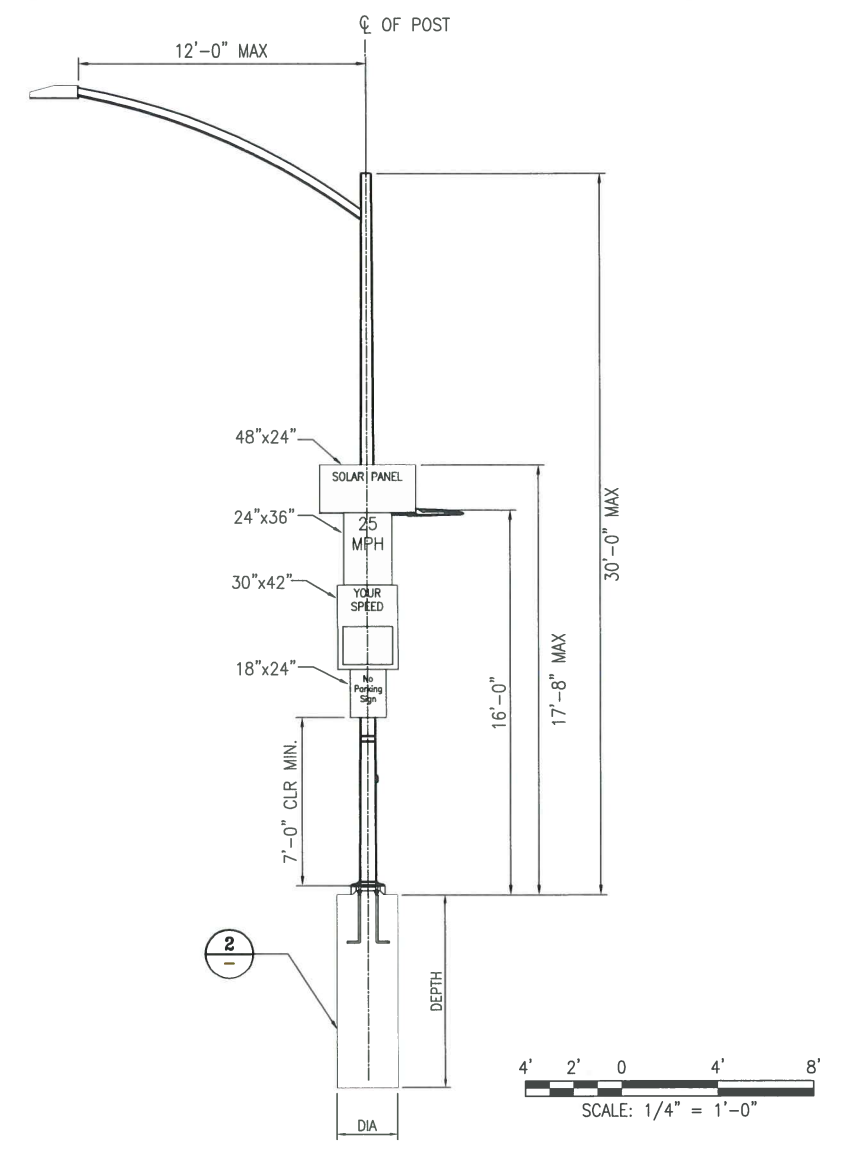
CIDH PILE FOUNDATION				
SOIL TYPE	DIAMETER	DEPTH W/ SOLAR PANEL	DEPTH W/O SOLAR PANEL	REINFORCED
ARTIFICIAL FILL	2'-6"	8'-0"	7'-0"	YES
DUNE AND BEACH SAND		7'-0"		
PLEISTOCENE ALLUVIAL DEPOSITS		6'-0"	6'-0"	
HOLOCENE ALLUVIUM				
PRE-QUATERNARY DEPOSITS & BEDROCK		5'-0"	5'-0"	



SECTION 3
SCALE: 3/4"=1'-0"



SECTION 2
SCALE: 3/4"=1'-0"



ELEVATION 1
SCALE: 1/4"=1'-0"

- NOTES:**
- THIS STANDARD APPLIES TO PUC STANDARD POLE TYPES LS100, LS101, AND LS102. SEE PUC STANDARDS FOR ADDITIONAL INFORMATION INCLUDING POLE SIZES.
 - WIND LOADING (3 SECOND): 85 mph.
 - UNIT STRESSES (STRUCTURAL STEEL):
 - F_y = 55,000 psi (TAPERED STEEL TUBE AND ANCHOR BOLTS)
 - F_y = 50,000 psi (UNLESS OTHERWISE NOTED)
 - UNIT STRESSES (REINFORCED CONCRETE):
 - F'_c = 3,000 psi (AT 28 DAYS)
 - F_y = 60,000 psi
 - PROVIDE A HEX NUT, LEVELING NUT AND 2 WASHERS FOR EACH ANCHOR BOLT.
 - POUR CONCRETE AGAINST UNDISTURBED SOIL.

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				
THIS DRAWING WAS LAST MODIFIED: 02/26/16 11:26, BY: rrhee				

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DESIGN AND CONSTRUCTION
 DEPARTMENT OF PUBLIC WORKS
 CITY & COUNTY OF SAN FRANCISCO
 30 VAN NESS AVENUE, 5TH FLOOR
 SAN FRANCISCO, CA 94102 - 8028

Section Mgr: RAYMOND LUI
 Acting Deputy Division Mgr: FERNANDO CISNEROS
 Division Mgr: PATRICK RIVERA

Date: 5/24/16
 5/26/16
 5/24/16

DESIGNED	RR
DRAWN	TEAM
CHECKED	JS
REVIEWED	
APPROVED	
DATE	



SCALE: AS SHOWN
 SHEET OF SHEETS

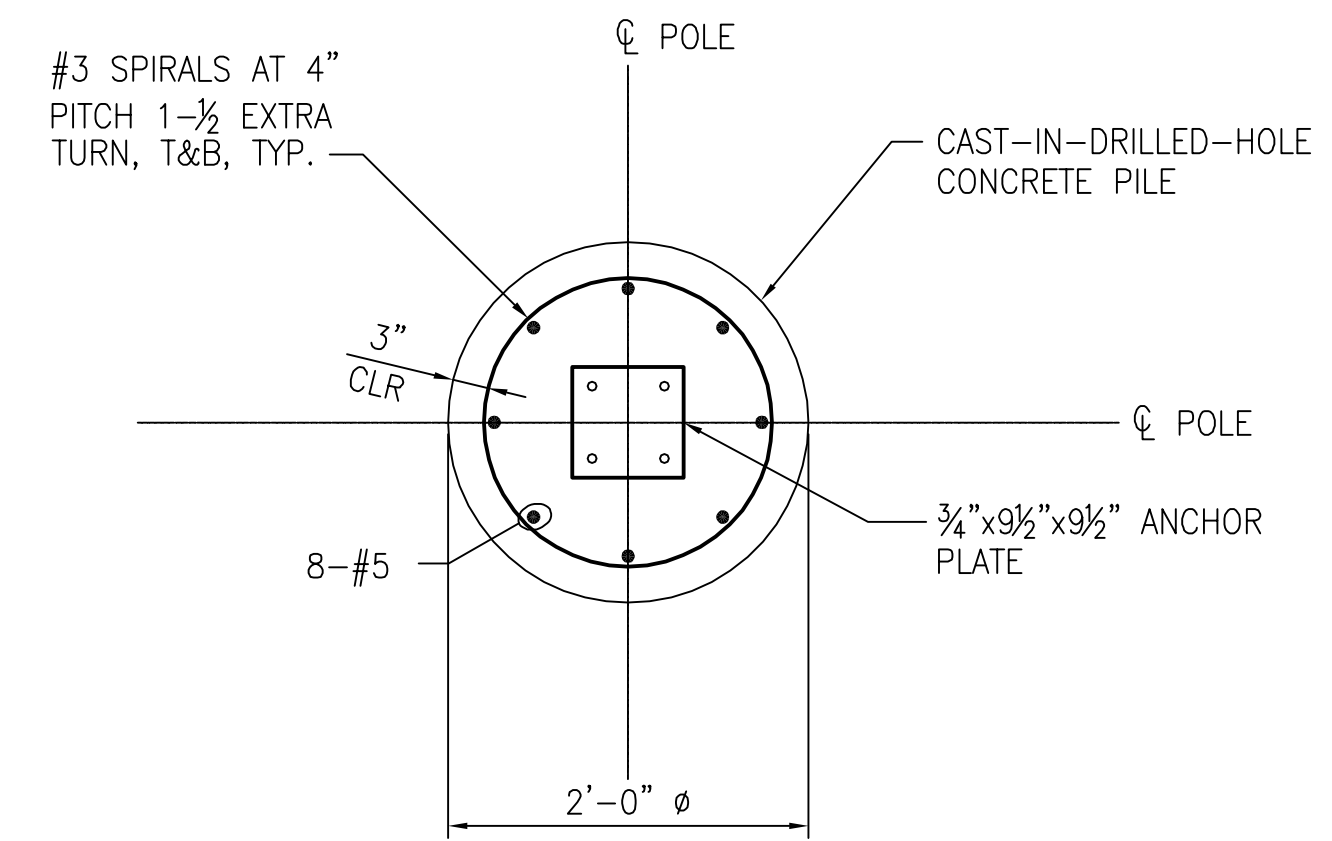
SFMTA RADAR SPEED DISPLAY SUPPORT POLES

STANDARD LIGHT POLE ELEVATION & DETAILS

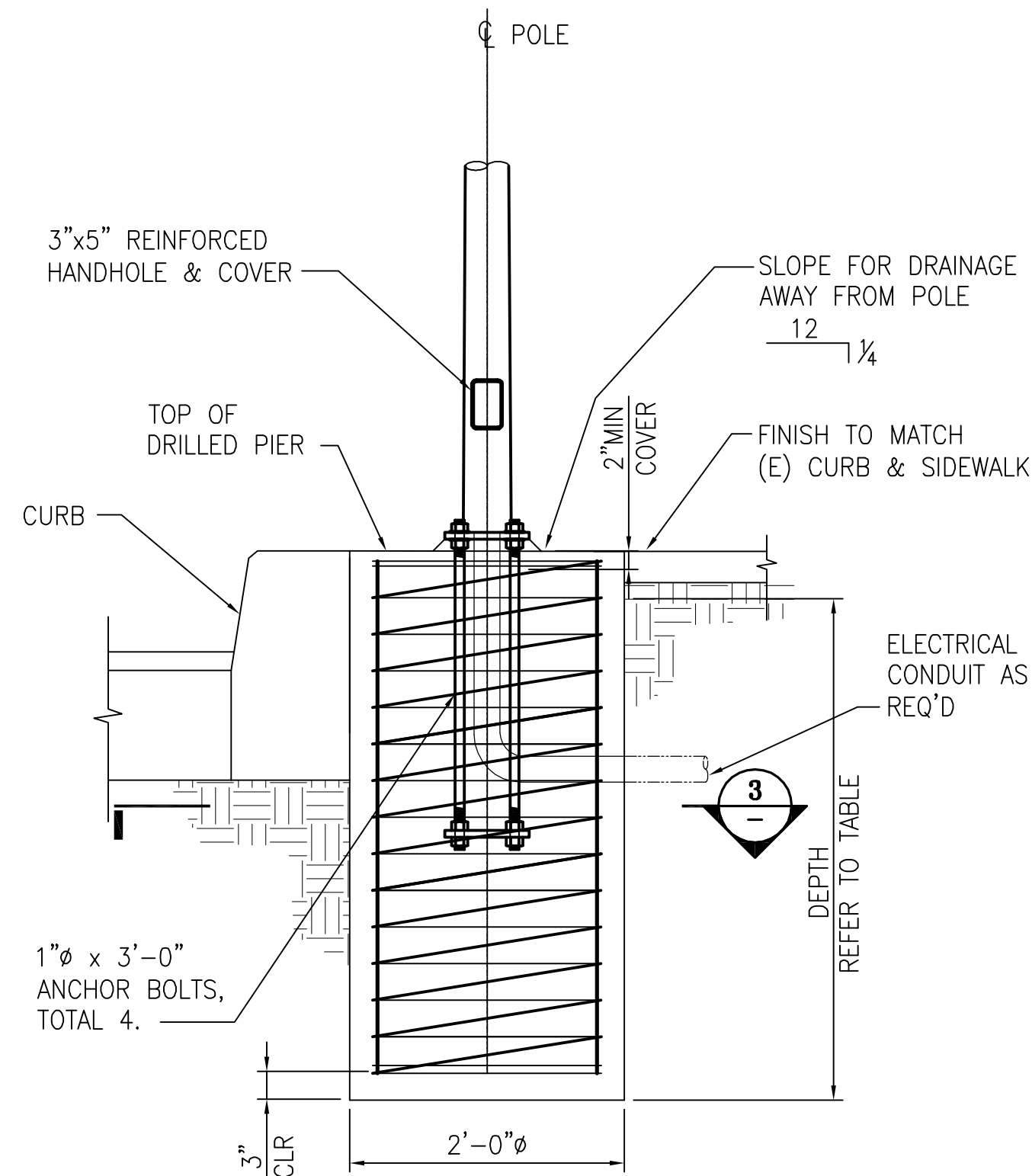
CONTRACT NO.	2559J
DRAWING NO.	S2.0
FILE NO.	105,438
REV. NO.	-

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 Model Units: Inches

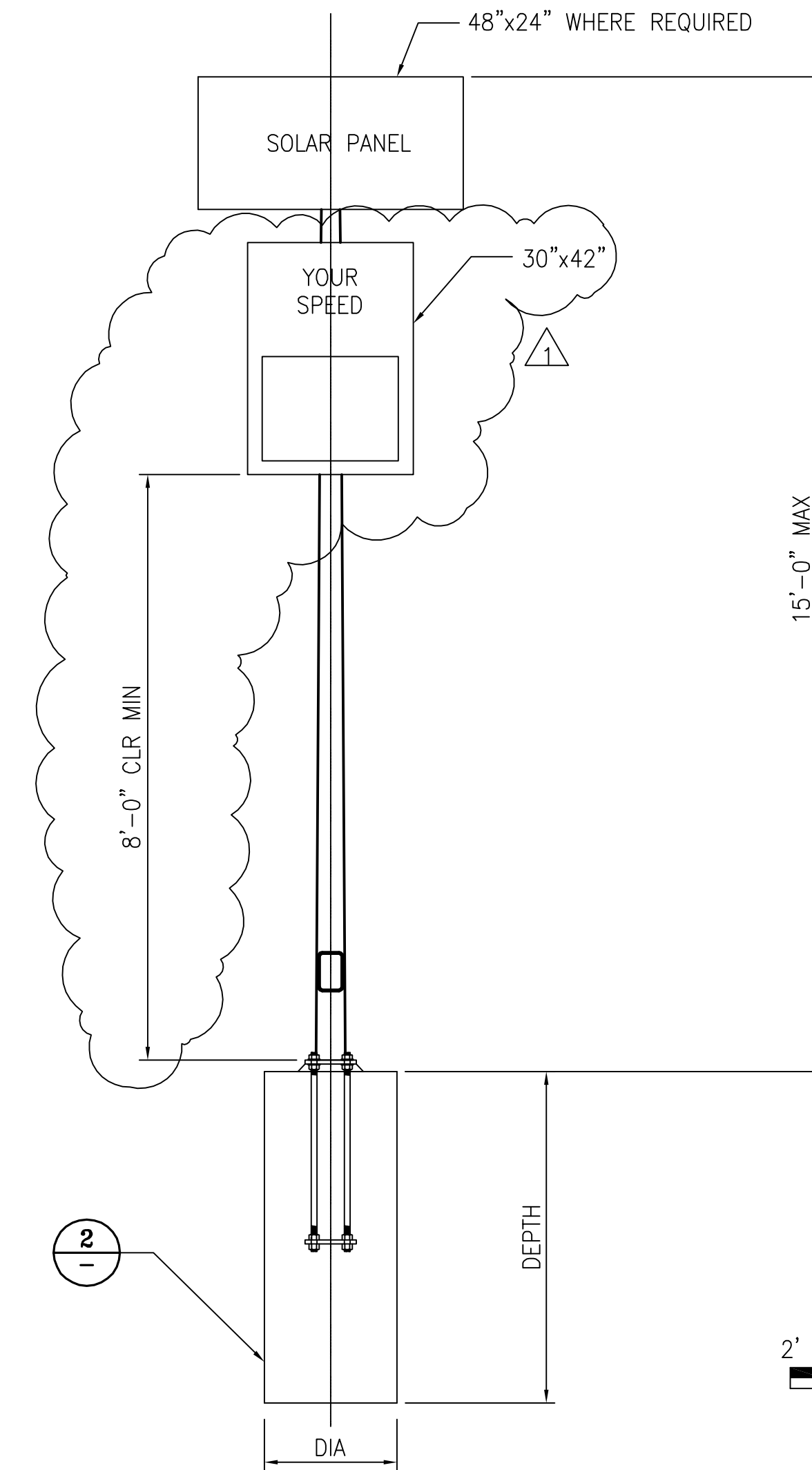
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HOLOCENE ALLUVIUM				
PRE-QUATERNARY DEPOSITS & BEDROCK				



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SCALE: 3/4" = 1'-0"



SECTION 2
SCALE: 3/4" = 1'-0"



ELEVATION 1
SCALE: 1/2" = 1'-0"

- NOTES:**
- POLES SHALL BE EITHER 15'-0"±2" OR 13'-0"±2" AS DIRECTED BY SFMTA.
 - POLES ARE TO BE TAPERED STEEL POSTS, 0.1196" WALL THICKNESS, 5"ID AT BASE, 4 1/4"ID AT TOP.
 - OUTSIDE DIAMETER, WALL THICKNESS, AND CORRESPONDING SECTION PROPERTIES OF POLES ARE MINIMUMS. UNLESS OTHERWISE SPECIFIED, ALTERNATIVE SECTIONS SHALL REQUIRE APPROVAL BY THE ENGINEER.
 - WIND LOADING (3 SECOND): 85 mph.
 - UNIT STRESSES (STRUCTURAL STEEL):
 - F_y = 55,000 psi (TAPERED STEEL TUBE AND ANCHOR BOLTS)
 - F_y = 50,000 psi (UNLESS OTHERWISE NOTED)
 - UNIT STRESSES (REINFORCED CONCRETE):
 - F_c' = 3,000 psi (AT 28 DAYS)
 - F_y = 60,000 psi
 - PROVIDE A HEX NUT, LEVELING NUT AND 4 WASHERS FOR EACH ANCHOR BOLT.
 - FOR ANCHOR BOLTS, THREAD TOP 6" AND GALVANIZE TOP 1'-0"; THREAD BOTTOM 6".
 - 3"x5" ROUNDED RECTANGLE HANDHOLE REINFORCED WITH RING WELDED TO OUTSIDE OF POLE. HANDHOLE REINFORCEMENT RING SHALL BE 3/8"x2". PROVIDE 1/8" COVER PLATE.
 - HANDHOLES SHALL BE LOCATED ON THE DOWNSTREAM SIDE OF TRAFFIC.
 - POUR FOUNDATION CONCRETE AGAINST UNDISTURBED SOIL.
 - REFER TO 2010 CALTRANS STANDARD PLAN RSP ES-7B FOR ADDITIONAL INFORMATION.

FOR ORIGINAL SIGNATURES; SEE REV 0

NO.	DATE	DESCRIPTION	BY	APP.
1	7/05/17	Miscellaneous Changes	RR	JS

TABLE OF REVISIONS
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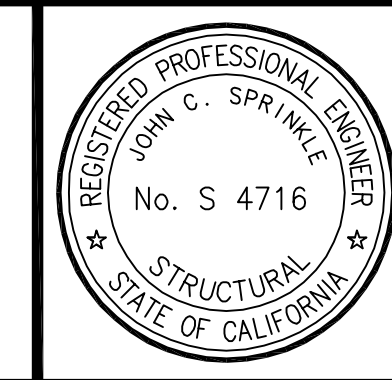
REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DESIGN AND CONSTRUCTION
DEPARTMENT OF PUBLIC WORKS
CITY & COUNTY OF SAN FRANCISCO
30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102 - 6028

Section Mgr:	RAYMOND LUI
Acting Deputy Division Mgr:	FERNANDO CISNEROS
Division Mgr:	PATRICK RIVERA

DESIGNED	RR
DRAWN	TEAM
CHECKED	JS
REVIEWED	
RECOMMENDED	
APPROVED	
DATE	



SCALE:	AS SHOWN
SHEET OF SHEETS	

SFMTA RADAR SPEED DISPLAY SUPPORT POLES
TYPE 1-A (MODIFIED) POLE ELEVATION AND DETAILS

CONTRACT NO.	2559J
DRAWING NO.	S3.0
FILE NO.	105,439
REV. NO.	1

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 Plot Time: Wed, 16 Aug 2017 3:56pm
 Model Units: inches



CEQA Exemption Determination

PROPERTY INFORMATION/PROJECT DESCRIPTION

Project Address		Block/Lot(s)
SFMTA FY20 Speed Radar Signs		
Case No.		Permit No.
2020-009636ENV		
<input checked="" type="checkbox"/> Addition/ Alteration	<input type="checkbox"/> Demolition (requires HRE for Category B Building)	<input type="checkbox"/> New Construction
<p>Project description for Planning Department approval.</p> <p>The San Francisco Municipal Transportation Agency (SFMTA) proposes to install four new speed radar signs at various locations during Fiscal Year 2020. These signs would help remind drivers of their speed. The signs would be installed on new poles, with power provided by the streetlights' photocells.</p> <p>The proposed locations are:</p> <ul style="list-style-type: none"> • 7th Avenue near Laguna Honda Boulevard and Lawton Street • Fulton Street between 38th and 40th avenues (adjacent to Golden Gate Park Historic District) • Fulton Street between 16th and 17th avenues (adjacent to Golden Gate Park Historic District) • Woodside Avenue between Vasquez and Hernandez avenues (adjacent to eligible Laguna Honda Historic District) <p>The project would construct one new pole and foundation at each of the proposed locations for a total of four new poles. The poles would be installed by a San Francisco Public Works contractor, with a maximum excavation depth of eight feet. The pole on Fulton between 38th and 40th Ave should have standard construction measure 1 (accidental discovery) because there is high potential for prehistoric resources. The other three locations would have no effect. The Public Works' construction management section would administer construction.</p>		

STEP 1: EXEMPTION TYPE

The project has been determined to be exempt under the California Environmental Quality Act (CEQA).	
<input checked="" type="checkbox"/>	Class 1 - Existing Facilities. Interior and exterior alterations; additions under 10,000 sq. ft.
<input type="checkbox"/>	Class 3 - New Construction. Up to three new single-family residences or six dwelling units in one building; commercial/office structures; utility extensions; change of use under 10,000 sq. ft. if principally permitted or with a CU.
<input type="checkbox"/>	<p>Class 32 - In-Fill Development. New Construction of seven or more units or additions greater than 10,000 sq. ft. and meets the conditions described below:</p> <p>(a) The project is consistent with the applicable general plan designation and all applicable general plan policies as well as with applicable zoning designation and regulations.</p> <p>(b) The proposed development occurs within city limits on a project site of no more than 5 acres substantially surrounded by urban uses.</p> <p>(c) The project site has no value as habitat for endangered rare or threatened species.</p> <p>(d) Approval of the project would not result in any significant effects relating to traffic, noise, air quality, or water quality.</p> <p>(e) The site can be adequately served by all required utilities and public services.</p> <p>FOR ENVIRONMENTAL PLANNING USE ONLY</p>
<input type="checkbox"/>	Other _____
<input type="checkbox"/>	Common Sense Exemption (CEQA Guidelines section 15061(b)(3)). It can be seen with certainty that there is no possibility of a significant effect on the environment . FOR ENVIRONMENTAL PLANNING USE ONLY

STEP 2: ENVIRONMENTAL SCREENING ASSESSMENT

TO BE COMPLETED BY PROJECT PLANNER

<input type="checkbox"/>	<p>Air Quality: Would the project add new sensitive receptors (specifically, schools, day care facilities, hospitals, residential dwellings, and senior-care facilities) within an Air Pollution Exposure Zone? Does the project have the potential to emit substantial pollutant concentrations (e.g. use of diesel construction equipment, backup diesel generators, heavy industry, diesel trucks, etc.)? (refer to <i>The Environmental Information tab on the San Francisco Property Information Map</i>)</p>
<input type="checkbox"/>	<p>Hazardous Materials: If the project site is located on the Maher map or is suspected of containing hazardous materials (based on a previous use such as gas station, auto repair, dry cleaners, or heavy manufacturing, or a site with underground storage tanks): Would the project involve 50 cubic yards or more of soil disturbance - or a change of use from industrial to residential?</p> <p>Note that a categorical exemption shall not be issued for a project located on the Cortese List if box is checked, note below whether the applicant has enrolled in or received a waiver from the San Francisco Department of Public Health (DPH) Maher program, or if Environmental Planning staff has determined that hazardous material effects would be less than significant. (refer to <i>The Environmental Information tab on the San Francisco Property Information Map</i>)</p>
<input type="checkbox"/>	<p>Transportation: Does the project involve a child care facility or school with 30 or more students, or a location 1,500 sq. ft. or greater? Does the project have the potential to adversely affect transit, pedestrian and/or bicycle safety (hazards) or the adequacy of nearby transit, pedestrian and/or bicycle facilities?</p>
<input checked="" type="checkbox"/>	<p>Archeological Resources: Would the project result in soil disturbance/modification greater than two (2) feet below grade in an archeological sensitive area or eight (8) feet in a non-archeological sensitive area? If yes, archeology review is required.</p>
<input type="checkbox"/>	<p>Subdivision/Lot Line Adjustment: Does the project site involve a subdivision or lot line adjustment on a lot with a slope average of 20% or more? (refer to <i>The Environmental Information tab on the San Francisco Property Information Map</i>) If box is checked, Environmental Planning must issue the exemption.</p>
<input type="checkbox"/>	<p>Average Slope of Parcel = or > 25%, or site is in Edgell Slope Protection Area or Northwest Mt. Sutro Slope Protection Area: Does the project involve any of the following: (1) New building construction, except one-story storage or utility occupancy, (2) horizontal additions, if the footprint area increases more than 50%, or (3) horizontal and vertical additions increase more than 500 square feet of new projected roof area? (refer to <i>The Environmental Planning tab on the San Francisco Property Information Map</i>) If box is checked, a geotechnical report is likely required and Environmental Planning must issue the exemption.</p>
<input type="checkbox"/>	<p>Seismic Hazard: <input type="checkbox"/> Landslide or <input type="checkbox"/> Liquefaction Hazard Zone:</p> <p>Does the project involve any of the following: (1) New building construction, except one-story storage or utility occupancy, (2) horizontal additions, if the footprint area increases more than 50%, (3) horizontal and vertical additions increase more than 500 square feet of new projected roof area, or (4) grading performed at a site in the landslide hazard zone? (refer to <i>The Environmental tab on the San Francisco Property Information Map</i>) If box is checked, a geotechnical report is required and Environmental Planning must issue the exemption.</p>
<p>Comments and Planner Signature (optional): Lauren Bihl</p> <p>The pole on Fulton between 38th and 40th Ave should have standard construction measure 1 (accidental discovery) because there is potential for prehistoric resources. The other three locations would have no effect.</p>	

STEP 3: PROPERTY STATUS - HISTORIC RESOURCE
TO BE COMPLETED BY PROJECT PLANNER

PROPERTY IS ONE OF THE FOLLOWING: <i>(refer to Property Information Map)</i>	
<input type="checkbox"/>	Category A: Known Historical Resource. GO TO STEP 5.
<input checked="" type="checkbox"/>	Category B: Potential Historical Resource (over 45 years of age). GO TO STEP 4.
<input type="checkbox"/>	Category C: Not a Historical Resource or Not Age Eligible (under 45 years of age). GO TO STEP 6.

STEP 4: PROPOSED WORK CHECKLIST
TO BE COMPLETED BY PROJECT PLANNER

Check all that apply to the project.	
<input type="checkbox"/>	1. Change of use and new construction. Tenant improvements not included.
<input type="checkbox"/>	2. Regular maintenance or repair to correct or repair deterioration, decay, or damage to building.
<input type="checkbox"/>	3. Window replacement that meets the Department's <i>Window Replacement Standards</i> . Does not include storefront window alterations.
<input type="checkbox"/>	4. Garage work. A new opening that meets the <i>Guidelines for Adding Garages and Curb Cuts</i> , and/or replacement of a garage door in an existing opening that meets the Residential Design Guidelines.
<input type="checkbox"/>	5. Deck, terrace construction, or fences not visible from any immediately adjacent public right-of-way.
<input type="checkbox"/>	6. Mechanical equipment installation that is not visible from any immediately adjacent public right-of-way.
<input type="checkbox"/>	7. Dormer installation that meets the requirements for exemption from public notification under <i>Zoning Administrator Bulletin No. 3: Dormer Windows</i> .
<input type="checkbox"/>	8. Addition(s) that are not visible from any immediately adjacent public right-of-way for 150 feet in each direction; does not extend vertically beyond the floor level of the top story of the structure or is only a single story in height; does not have a footprint that is more than 50% larger than that of the original building; and does not cause the removal of architectural significant roofing features.
Note: Project Planner must check box below before proceeding.	
<input checked="" type="checkbox"/>	Project is not listed. GO TO STEP 5.
<input type="checkbox"/>	Project does not conform to the scopes of work. GO TO STEP 5.
<input type="checkbox"/>	Project involves four or more work descriptions. GO TO STEP 5.
<input type="checkbox"/>	Project involves less than four work descriptions. GO TO STEP 6.

STEP 5: ADVANCED HISTORICAL REVIEW
TO BE COMPLETED BY PRESERVATION PLANNER

Check all that apply to the project.	
<input type="checkbox"/>	1. Reclassification of property status. <i>(Attach HRER Part I)</i> <input type="checkbox"/> Reclassify to Category A a. Per HRER b. Other <i>(specify):</i> <input type="checkbox"/> Reclassify to Category C <i>(No further historic review)</i>
<input type="checkbox"/>	2. Project involves a known historical resource (CEQA Category A) as determined by Step 3 and conforms entirely to proposed work checklist in Step 4.
<input type="checkbox"/>	3. Interior alterations to publicly accessible spaces that do not remove, alter, or obscure character defining features.
<input type="checkbox"/>	4. Window replacement of original/historic windows that are not "in-kind" but are consistent with existing historic character.
<input type="checkbox"/>	5. Façade/storefront alterations that do not remove, alter, or obscure character-defining features.

<input type="checkbox"/>	6. Raising the building in a manner that does not remove, alter, or obscure character-defining features.
<input type="checkbox"/>	7. Restoration based upon documented evidence of a building's historic condition, such as historic photographs, plans, physical evidence, or similar buildings.
<input type="checkbox"/>	8. Work consistent with the <i>Secretary of the Interior Standards for the Treatment of Historic Properties (Analysis required)</i> :
<input type="checkbox"/>	9. Work compatible with a historic district (Analysis required):
<input type="checkbox"/>	10. Work that would not materially impair a historic resource (Attach HRER Part II).
Note: If ANY box in STEP 5 above is checked, a Preservation Planner MUST sign below.	
<input checked="" type="checkbox"/>	Project can proceed with exemption review. The project has been reviewed by the Preservation Planner and can proceed with exemption review. GO TO STEP 6.
Comments (optional): Excavation of sidewalk/ROW for speed radar poles will not result in removal of any historic or potentially historic features.	
Preservation Planner Signature: Charles Enchill	

STEP 6: EXEMPTION DETERMINATION
TO BE COMPLETED BY PROJECT PLANNER

<input checked="" type="checkbox"/>	No further environmental review is required. The project is exempt under CEQA. There are no unusual circumstances that would result in a reasonable possibility of a significant effect.	
	Project Approval Action: City Traffic Engineer Directive	Signature: Lauren Bihl
		01/20/2021
<p>Once signed or stamped and dated, this document constitutes a n exemption pursuant to CEQA Guidelines and Chapter 31of the Administrative Code. In accordance with Chapter 31 of the San Francisco Administrative Code, an appeal of an exemption determination to the Board of Supervisors can only be filed within 30 days of the project receiving the approval action. Please note that other approval actions may be required for the project. Please contact the assigned planner for these approvals.</p>		

STEP 7: MODIFICATION OF A CEQA EXEMPT PROJECT

TO BE COMPLETED BY PROJECT PLANNER

In accordance with Chapter 31 of the San Francisco Administrative Code, when a California Environmental Quality Act (CEQA) exempt project changes after the Approval Action and requires a subsequent approval, the Environmental Review Officer (or his or her designee) must determine whether the proposed change constitutes a substantial modification of that project. This checklist shall be used to determine whether the proposed changes to the approved project would constitute a "substantial modification" and, therefore, be subject to additional environmental review pursuant to CEQA.

MODIFIED PROJECT DESCRIPTION

Modified Project Description:

DETERMINATION IF PROJECT CONSTITUTES SUBSTANTIAL MODIFICATION

Compared to the approved project, would the modified project:	
<input type="checkbox"/>	Result in expansion of the building envelope, as defined in the Planning Code;
<input type="checkbox"/>	Result in the change of use that would require public notice under Planning Code Sections 311 or 312;
<input type="checkbox"/>	Result in demolition as defined under Planning Code Section 317 or 19005(f)?
<input type="checkbox"/>	Is any information being presented that was not known and could not have been known at the time of the original determination, that shows the originally approved project may no longer qualify for the exemption?
If at least one of the above boxes is checked, further environmental review is required.	

DETERMINATION OF NO SUBSTANTIAL MODIFICATION

<input type="checkbox"/>	The proposed modification would not result in any of the above changes.
If this box is checked, the proposed modifications are exempt under CEQA, in accordance with prior project approval and no additional environmental review is required. This determination shall be posted on the Planning Department website and office and mailed to the applicant, City approving entities, and anyone requesting written notice. In accordance with Chapter 31, Sec 31.08j of the San Francisco Administrative Code, an appeal of this determination can be filed to the Environmental Review Officer within 10 days of posting of this determination.	
Planner Name:	Date:



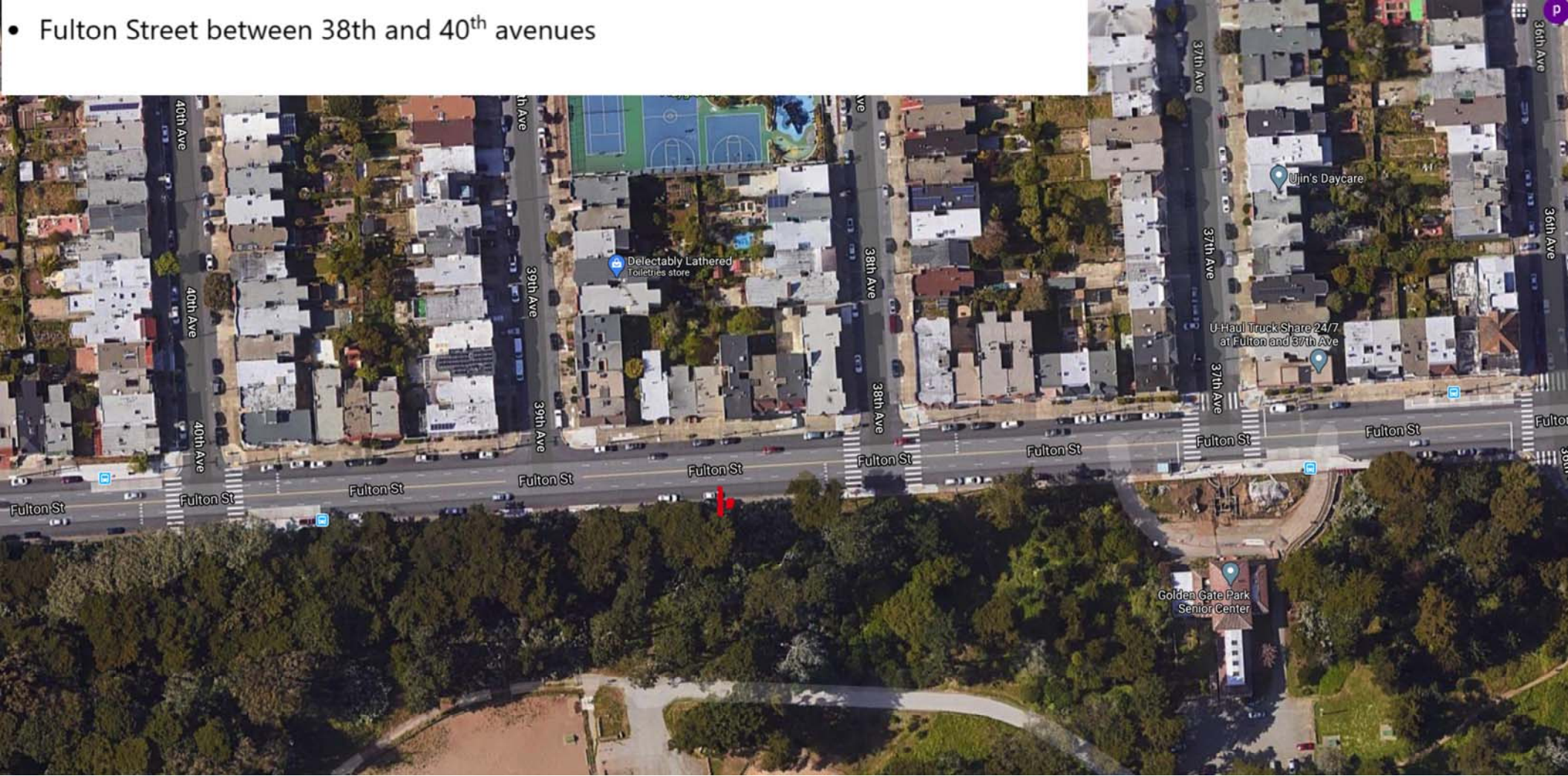
Approval Action:

Attachment 1: Speed Radar Sign Locations

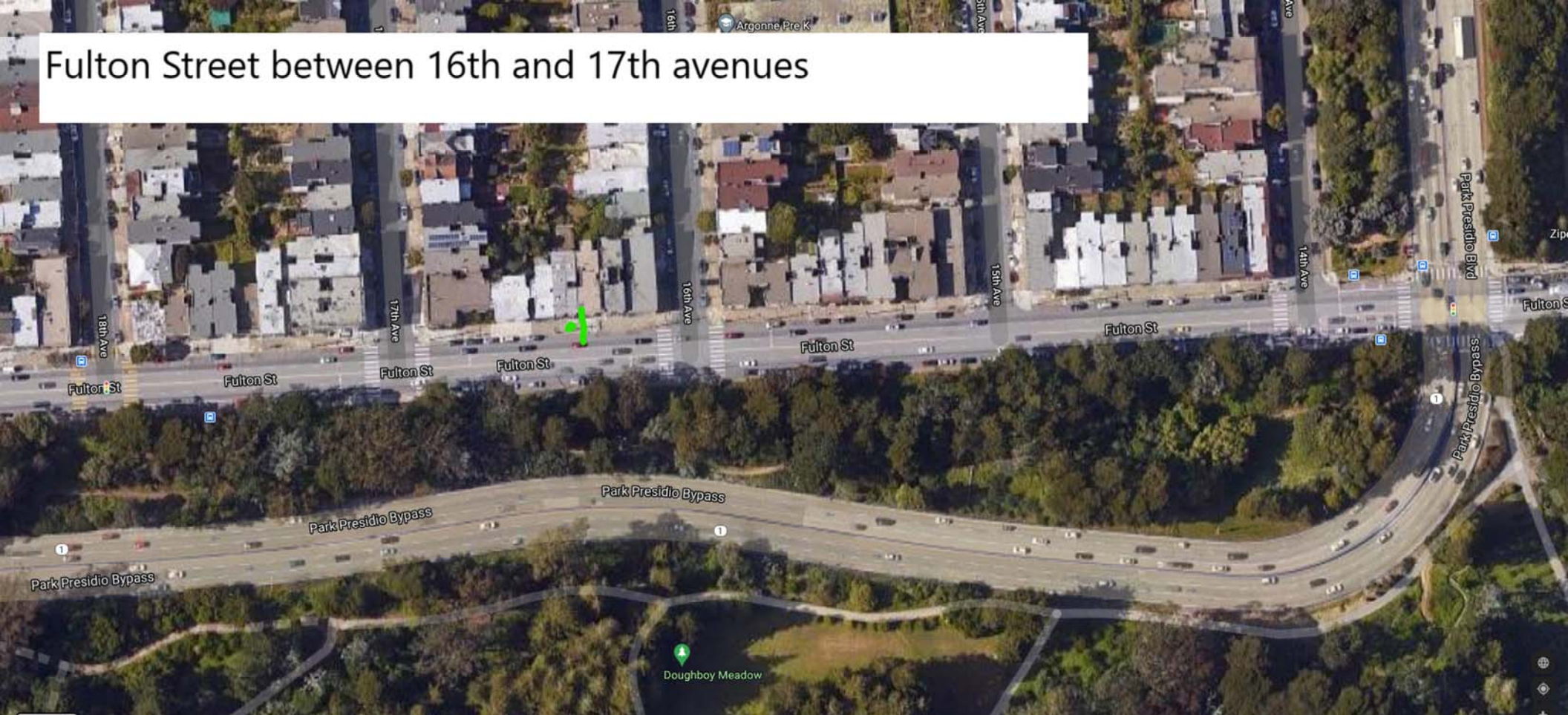
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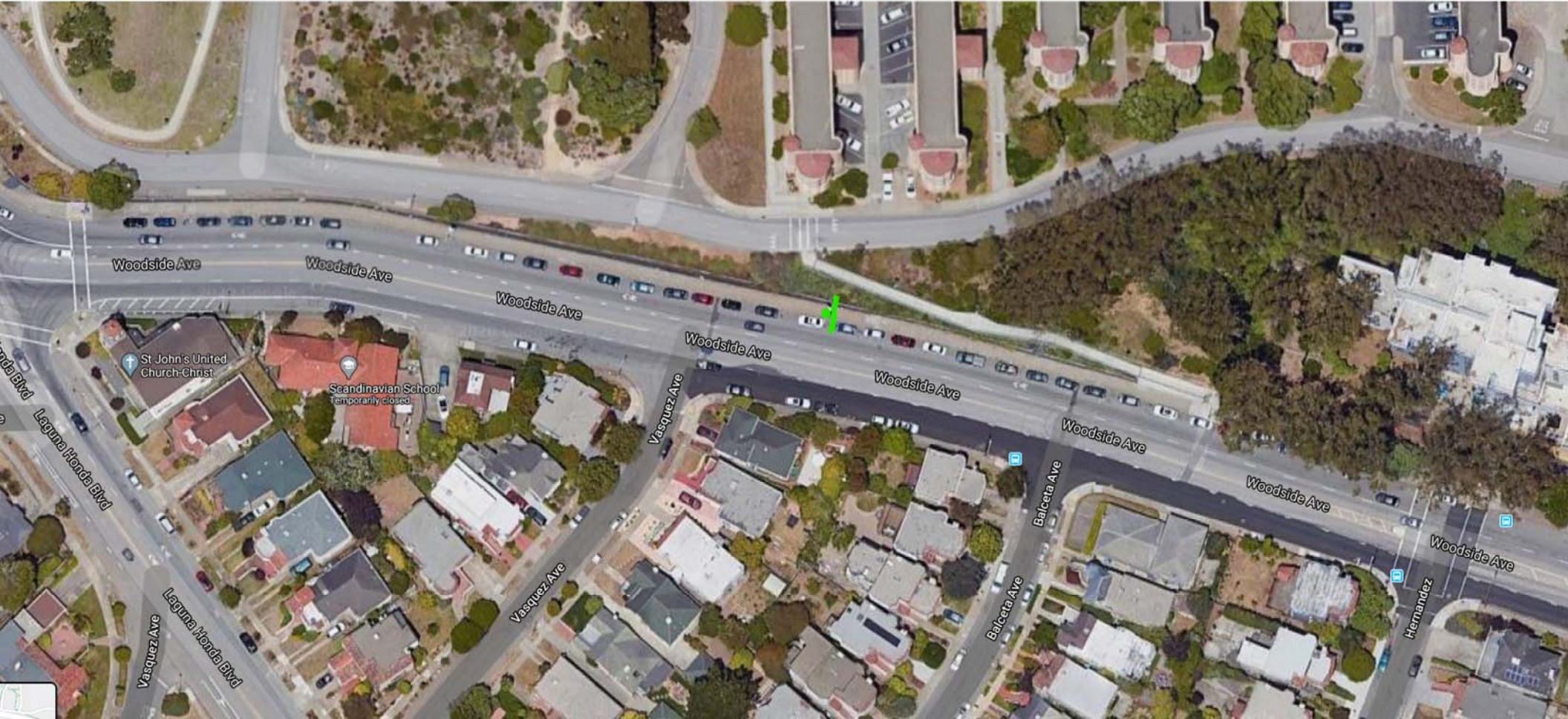
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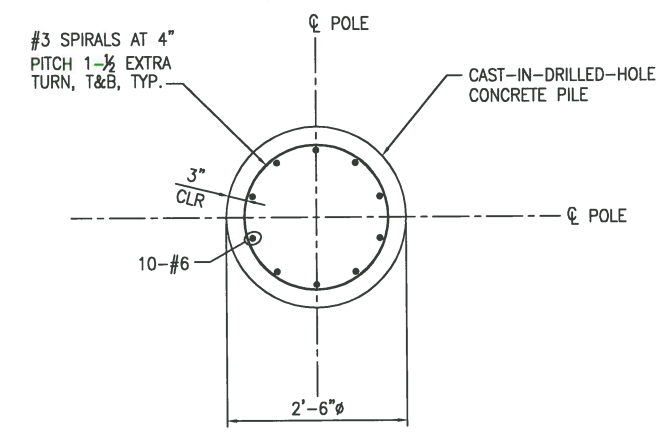
Fulton Street between 16th and 17th avenues



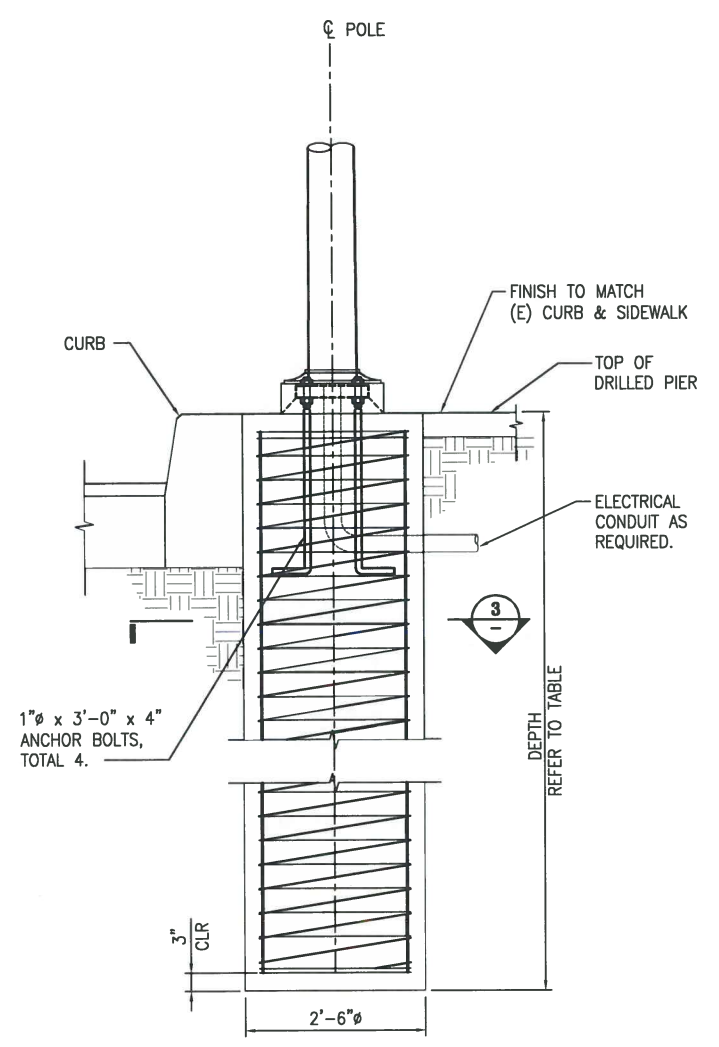
Woodside Avenue between Vasquez and Hernandez avenues



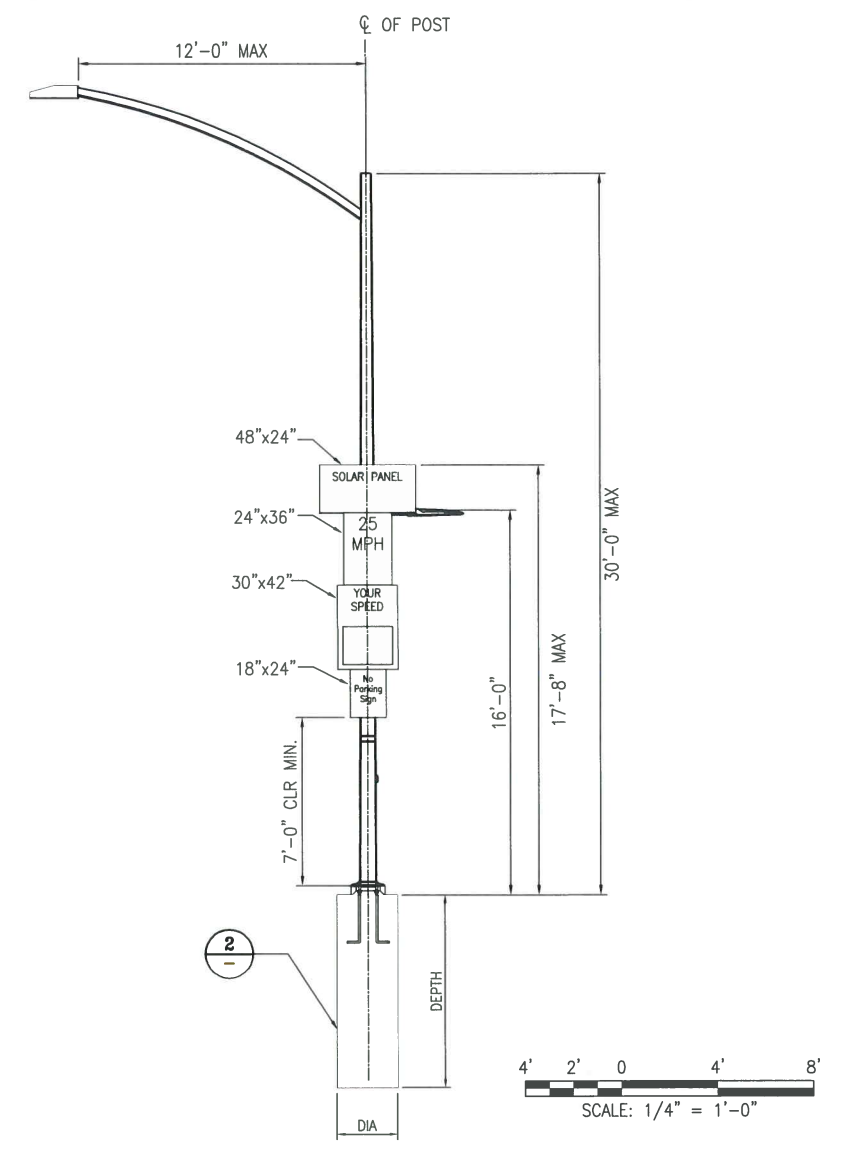
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 - F_y = 55,000 psi (TAPERED STEEL TUBE AND ANCHOR BOLTS)
 - F_y = 50,000 psi (UNLESS OTHERWISE NOTED)
 - UNIT STRESSES (REINFORCED CONCRETE):
 - F'_c = 3,000 psi (AT 28 DAYS)
 - F_y = 60,000 psi
 - PROVIDE A HEX NUT, LEVELING NUT AND 2 WASHERS FOR EACH ANCHOR BOLT.
 - POUR CONCRETE AGAINST UNDISTURBED SOIL.

NO.	DATE	DESCRIPTION	BY	APP.
TABLE OF REVISIONS				
THIS DRAWING WAS LAST MODIFIED: 02/26/16 11:26, BY: rrhee				

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DESIGN AND CONSTRUCTION
DEPARTMENT OF PUBLIC WORKS
CITY & COUNTY OF SAN FRANCISCO
30 VAN NESS AVENUE, 6TH FLOOR
SAN FRANCISCO, CA 94102 - 8028

Section Mgr: RAYMOND LUI
Acting Deputy Division Mgr: FERNANDO CISNEROS
Division Mgr: PATRICK RIVERA

Date: 5/24/16
5/26/16
5/24/16

DESIGNED	RR
DRAWN	TEAM
CHECKED	JS
REVIEWED	
APPROVED	
DATE	



SCALE: AS SHOWN
SHEET OF SHEETS

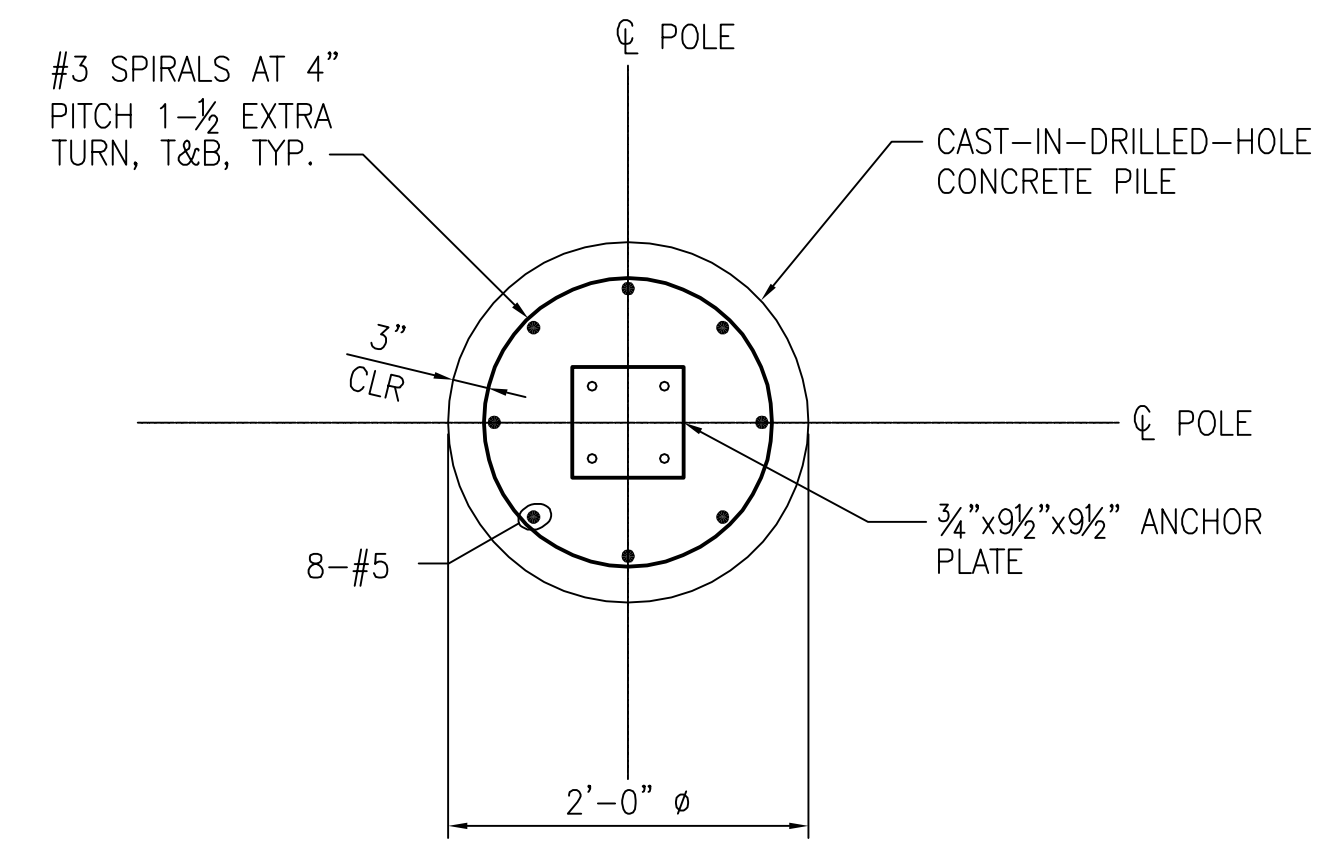
SFMTA RADAR SPEED DISPLAY SUPPORT POLES

STANDARD LIGHT POLE ELEVATION & DETAILS

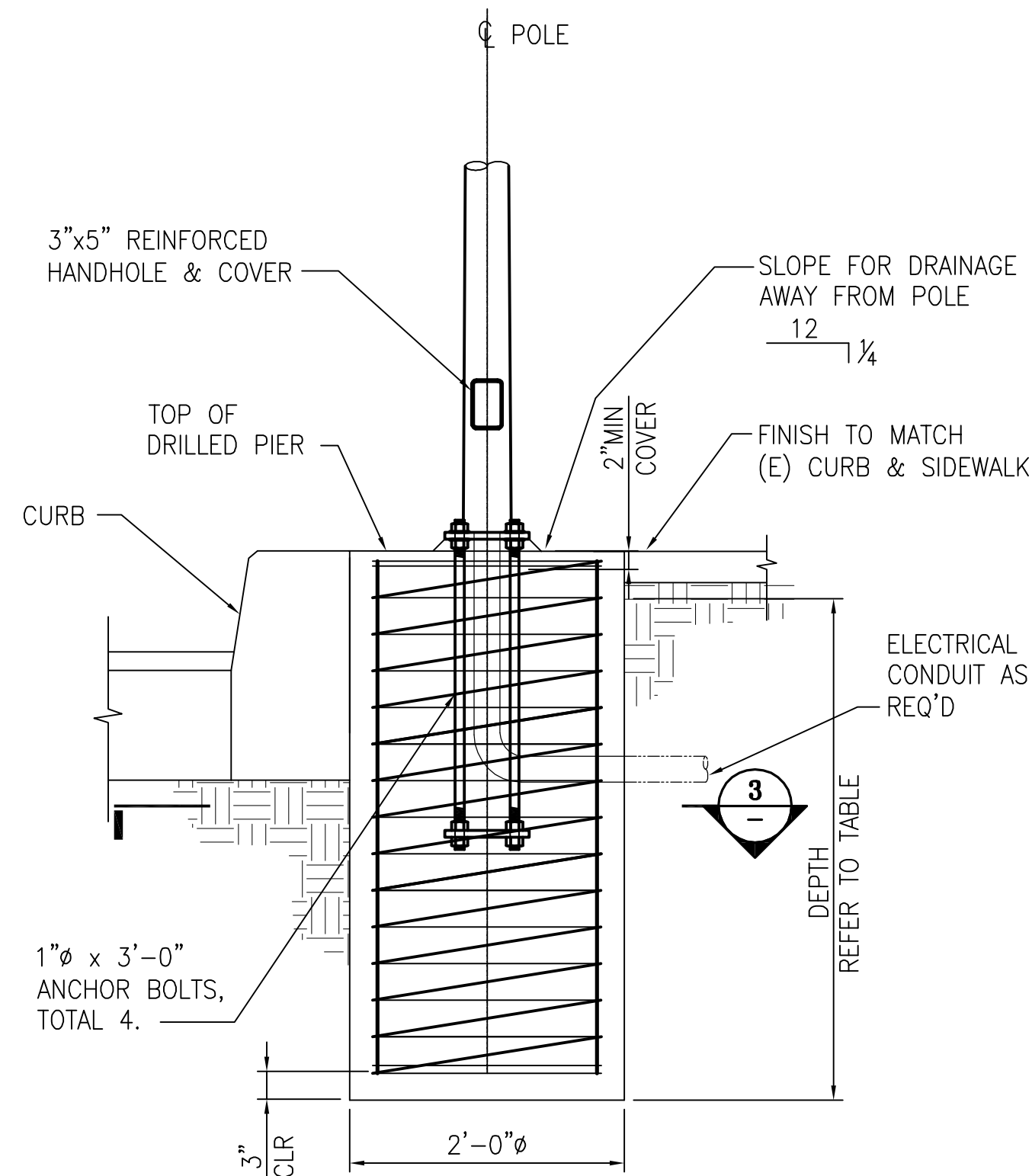
CONTRACT NO.	2559J
DRAWING NO.	S2.0
FILE NO.	105,438
REV. NO.	-

Drawing Path: V:\2559J_SFMTA_Radar_Speed_Display_Support_Poles\2_Design\Working_Drawings\EST\Current\Drawings\EST\Current\2559J_TBD.dwg
 Plot Time: Wed, 25 May 2016 11:26 AM - 3:12 PM
 Model Units: Inches

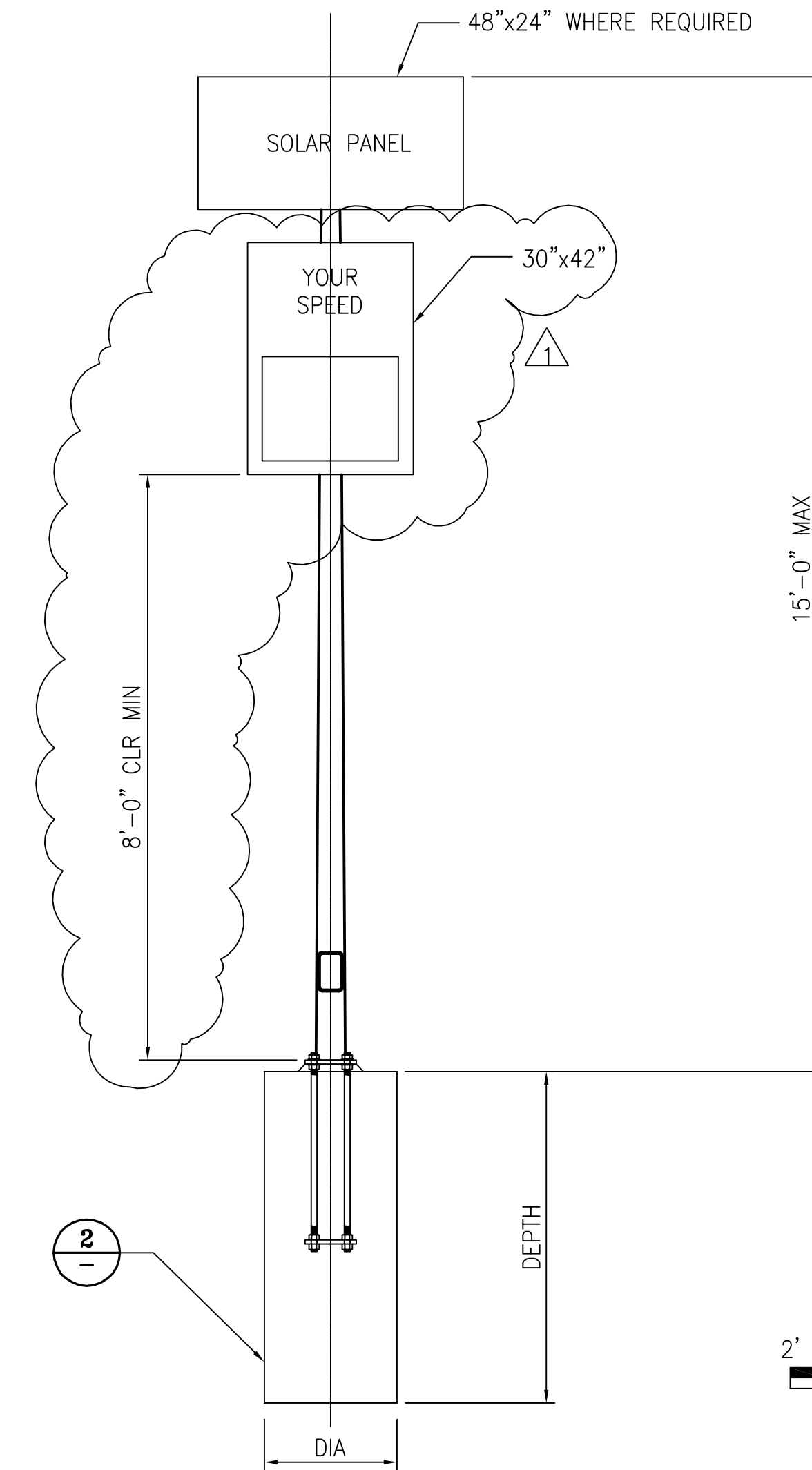
CIDH PILE FOUNDATION				
SOIL TYPE	DIAMETER	DEPTH W/ SOLAR PANEL	DEPTH W/O SOLAR PANEL	REINFORCED
ARTIFICIAL FILL	2'-0"	6'-0"	5'-0"	YES
DUNE AND BEACH SAND				
PLEISTOCENE ALLUVIAL DEPOSITS				
HOLOCENE ALLUVIUM				
PRE-QUATERNARY DEPOSITS & BEDROCK				



SECTION 3
SCALE: 3/4" = 1'-0"



SECTION 2
SCALE: 3/4" = 1'-0"



ELEVATION 1
SCALE: 1/2" = 1'-0"

- NOTES:**
- POLES SHALL BE EITHER 15'-0"±2" OR 13'-0"±2" AS DIRECTED BY SFMTA.
 - POLES ARE TO BE TAPERED STEEL POSTS, 0.1196" WALL THICKNESS, 5"ID AT BASE, 4 1/4"ID AT TOP.
 - OUTSIDE DIAMETER, WALL THICKNESS, AND CORRESPONDING SECTION PROPERTIES OF POLES ARE MINIMUMS. UNLESS OTHERWISE SPECIFIED, ALTERNATIVE SECTIONS SHALL REQUIRE APPROVAL BY THE ENGINEER.
 - WIND LOADING (3 SECOND): 85 mph.
 - UNIT STRESSES (STRUCTURAL STEEL):
 - F_y = 55,000 psi (TAPERED STEEL TUBE AND ANCHOR BOLTS)
 - F_y = 50,000 psi (UNLESS OTHERWISE NOTED)
 - UNIT STRESSES (REINFORCED CONCRETE):
 - F_c' = 3,000 psi (AT 28 DAYS)
 - F_y = 60,000 psi
 - PROVIDE A HEX NUT, LEVELING NUT AND 4 WASHERS FOR EACH ANCHOR BOLT.
 - FOR ANCHOR BOLTS, THREAD TOP 6" AND GALVANIZE TOP 1'-0"; THREAD BOTTOM 6".
 - 3"x5" ROUNDED RECTANGLE HANDHOLE REINFORCED WITH RING WELDED TO OUTSIDE OF POLE. HANDHOLE REINFORCEMENT RING SHALL BE 3/8"x2". PROVIDE 1/8" COVER PLATE.
 - HANDHOLES SHALL BE LOCATED ON THE DOWNSTREAM SIDE OF TRAFFIC.
 - POUR FOUNDATION CONCRETE AGAINST UNDISTURBED SOIL.
 - REFER TO 2010 CALTRANS STANDARD PLAN RSP ES-7B FOR ADDITIONAL INFORMATION.

FOR ORIGINAL SIGNATURES; SEE REV 0

NO.	DATE	DESCRIPTION	BY	APP.
1	7/05/17	Miscellaneous Changes	RR	JS

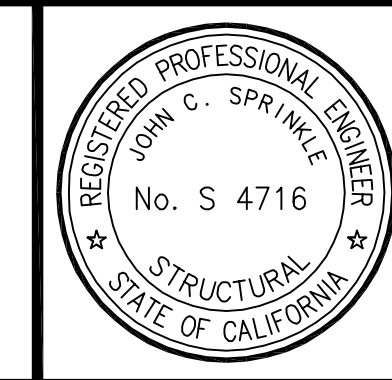
TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 07/05/17 14:55, BY: RRhee

REFERENCE INFORMATION & FILE NO. OF SURVEYS



INFRASTRUCTURE DESIGN AND CONSTRUCTION
DEPARTMENT OF PUBLIC WORKS
CITY & COUNTY OF SAN FRANCISCO
30 VAN NESS AVENUE, 5TH FLOOR
SAN FRANCISCO, CA 94102 - 6028

Section Mgr:	Date:	DESIGNED:
RAYMOND LUI		RR
Acting Deputy Division Mgr:	FERNANDO CISNEROS	DRAWN:
		TEAM
Division Mgr:	PATRICK RIVERA	CHECKED:
		JS
		REVIEWED:
		RECOMMENDED:
		APPROVED:
		DATE:



SCALE:
AS SHOWN
SHEET OF SHEETS

SFMTA RADAR SPEED DISPLAY SUPPORT POLES
TYPE 1-A (MODIFIED) POLE ELEVATION AND DETAILS

CONTRACT NO.
2559J
DRAWING NO.
S3.0
FILE NO.
105,439
REV. NO.
1

Drawing Path: V:\2559J_SFMTA_Radar_Speed_Display_Support_Poles\2_Design_Working_Drawings\EST\Current\Drawings\EST\2559J_TBD.dwg
 Plot Time: Wed, 16 Aug 2017 3:56pm
 Model Units: inches