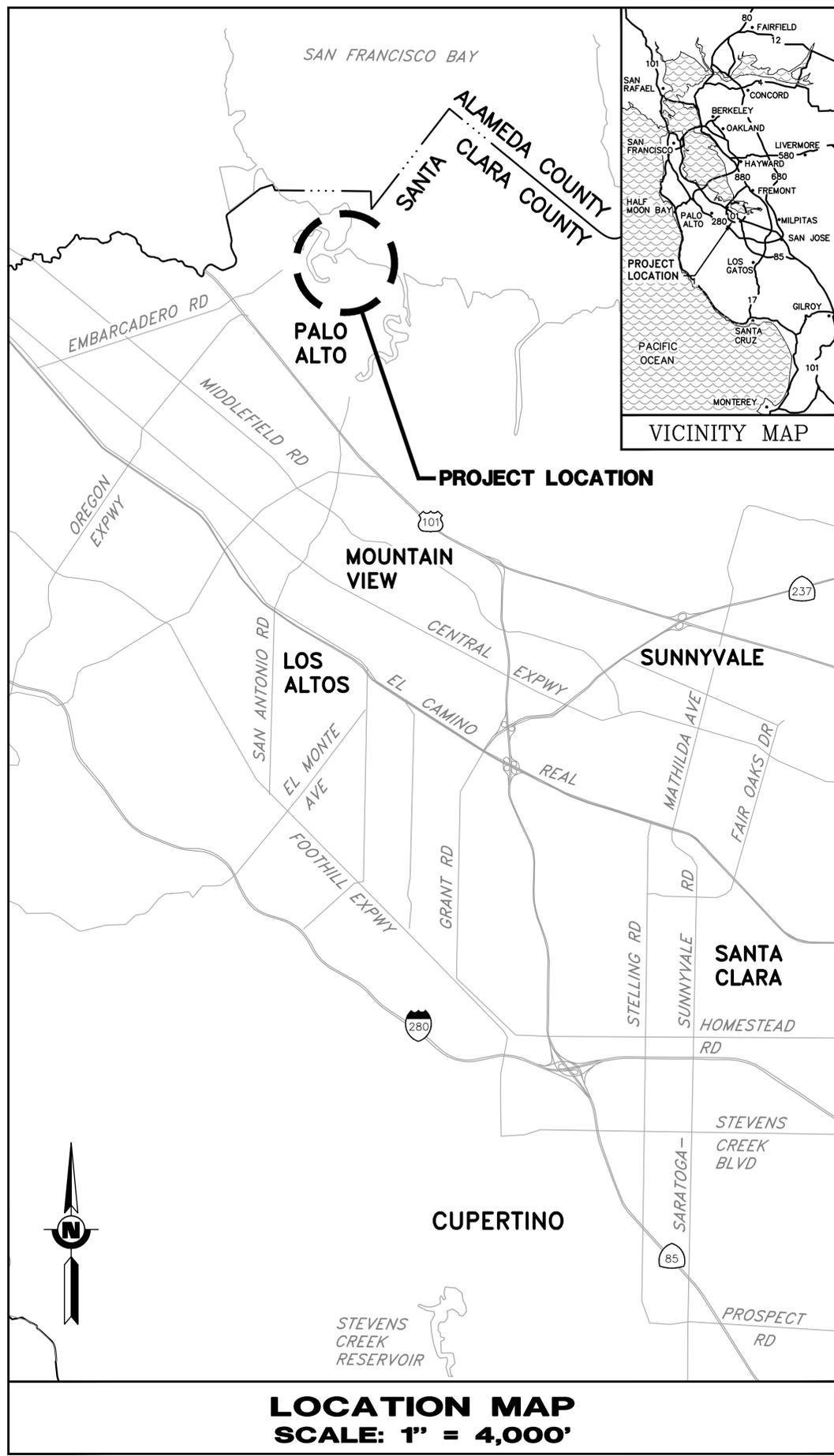


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FILENAME: \\srvfile\engineering_plans\active_projects\mp-10394001\palo alto flood basin tide gate structure seismic retrofit\ SHEETS\G-01.dwg



MAP AND CONSTRUCTION PLAN

FOR

PALO ALTO FLOOD BASIN

TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT

PALO ALTO, CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT



PREPARED BY:

Mu Hussaini 05/05/2025
 MOHAMMAD HUSSAINI, P.E. DATE
 ASSOCIATE ENGINEER - CIVIL
 DESIGN AND CONSTRUCTION UNIT 1
 WATERSHEDS DESIGN AND CONSTRUCTION DIVISION



APPROVED BY:

Karl Neuman 05/01/2025
 KARL NEUMAN, P.E., G.E. DATE
 CAPITAL ENGINEERING MANAGER
 DESIGN AND CONSTRUCTION UNIT 2
 WATERSHEDS DESIGN AND CONSTRUCTION DIVISION

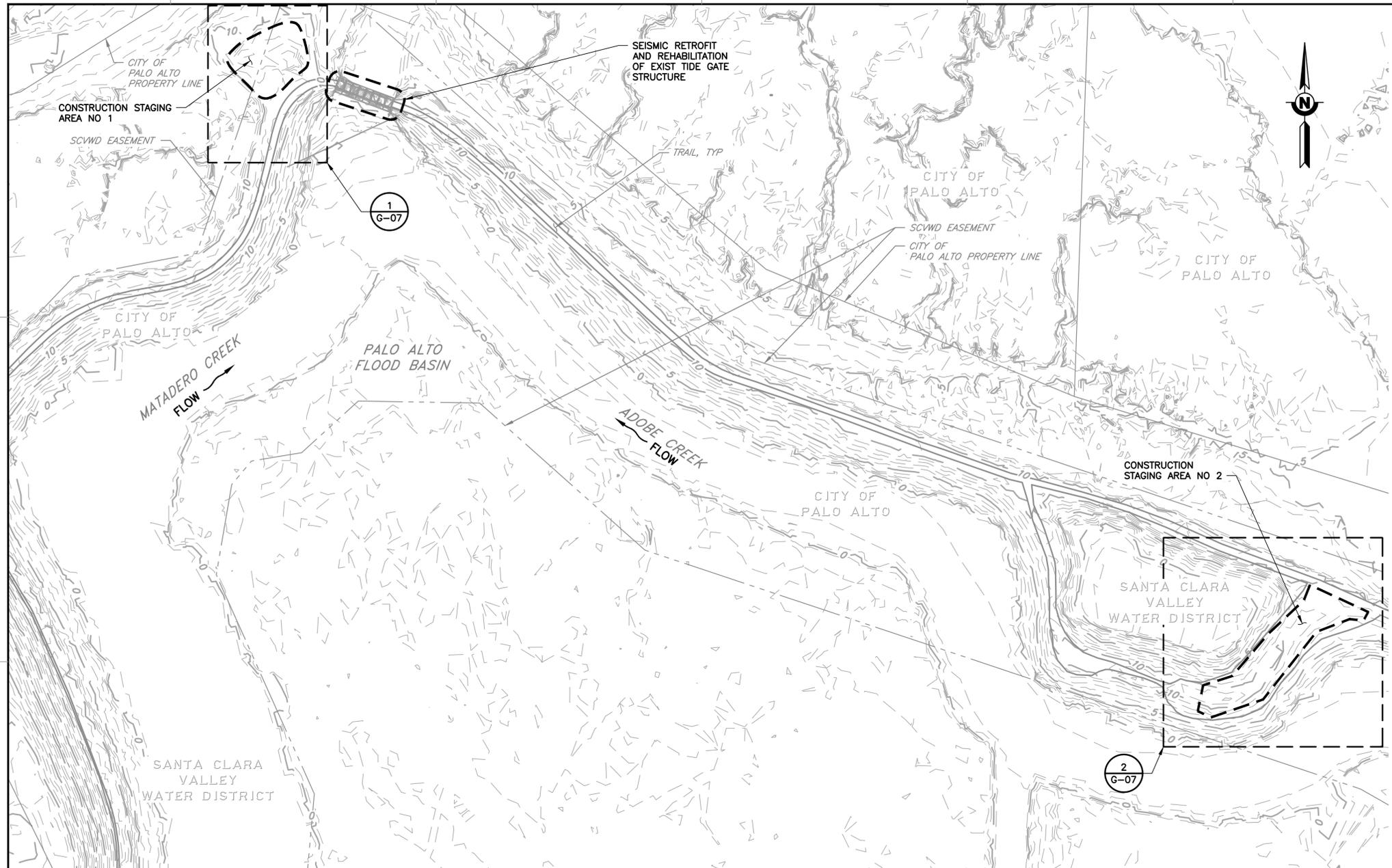
Bhavi Yerrapotu 05/05/2025
 BHAVANI YERRAPOTU, P.E. DATE
 DEPUTY OPERATING OFFICER
 WATERSHEDS DESIGN AND CONSTRUCTION DIVISION DEPUTY'S OFFICE
 WATERSHEDS DESIGN AND CONSTRUCTION DIVISION

ACCEPTED BY:

Jennifer Codianne 05/01/2025
 JENNIFER CODIANNE DATE
 DEPUTY OPERATING OFFICER
 WATERSHEDS OPERATIONS AND MAINTENANCE DIVISION

CONTRACT NUMBER	C-0710
PROJECT NUMBER	10394001
SHEET CODE:	G-01
SHEET NUMBER: 1	
TOTAL SHEETS: 33	

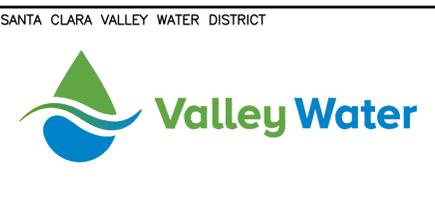
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 DOCUMENT NUMBER: PAA_LP-C-1039-85287



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REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE: 5/05/2025
 DESIGN: M. HUSSAINI
 DRAWN: K. LAM
 CHECKED: K. NEUMAN
 ENGINEER: DATE:



PROJECT NAME AND SHEET DESCRIPTION:
**PALO ALTO FLOOD BASIN TIDE GATE
 STRUCTURE SEISMIC RETROFIT
 AND REHABILITATION PROJECT**
 SITE LAYOUT MAP AND DRAWING INDEX

SCALE: AS SHOWN
 VERIFY SCALES: 0 to 1 inch
 BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
 PROJECT NUMBER: 10394001
 SHEET CODE: G-02
 SHEET NUMBER: 2

GENERAL NOTES

1. ALL EXISTING FACILITIES, STRUCTURES, TREES, FENCES, LANDSCAPE, ETC., DESIGNATED "EXIST" OR SHOWN EXISTING (SCREENED LINES) ARE TO REMAIN AND TO BE PROTECTED IN PLACE, ONLY THOSE SPECIFICALLY DESIGNATED FOR REMOVAL AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER SHALL BE REMOVED.
2. CONTRACTOR IS RESPONSIBLE TO UNCOVER AND VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING BURIED UTILITIES AND FACILITIES THAT REQUIRE CONNECTION TO NEW WORK OR POTENTIALLY IMPACT THE CONTRACTOR'S OPERATION. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND CONTACT THE CITY OF PALO ALTO BEFORE PERFORMING ANY WORK THAT MAY AFFECT EXISTING UTILITIES.
3. IF THERE ARE ANY DISCREPANCIES BETWEEN DIMENSIONS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE ATTENTION OF THE ENGINEER, FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES AND PERSONS ENGAGED UPON THIS CONTRACT.
4. ACCESSIBILITY COMPLIANCE WILL BE REVIEWED AND INSPECTED BY THE CITY OF PALO ALTO BUILDING DEPARTMENT STAFF. THE CONTRACTOR SHALL CONTACT THE CITY OF PALO ALTO BUILDING DEPARTMENT TO COORDINATE. CONTRACTOR SHALL POST ON THE SITE, EMERGENCY TELEPHONE NUMBERS FOR VALLEY WATER OPERATION AND MAINTENANCE PUBLIC WORKS, AMBULANCE, POLICE AND FIRE DEPARTMENTS.
5. CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD VALLEY WATER AND THE DESIGN PROFESSIONALS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
6. ALL GRADING SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE STANDARDS ESTABLISHED BY BAY AREA AIR QUALITY MANAGEMENT DISTRICT FOR AIRBORNE PARTICULATES AND DUST.
7. ALL MATERIALS, REQUIRED FOR THE COMPLETE EXECUTION OF THE PROJECT, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OF ABOVE OR UNDERGROUND FACILITIES DAMAGED DURING THE CONSTRUCTION PERIOD AT THE CONTRACTOR'S OWN EXPENSE.
9. ALL EXCAVATED EXPORT/UNSUITABLE MATERIALS WITHIN THE PROJECT LIMITS SHALL BE LEGALLY DISPOSED OF OFF THE PROJECT SITE BY THE CONTRACTOR.
10. CONTRACTOR SHALL OBTAIN ALL PERMITS FROM THE CITY OF PALO ALTO AND CITY OF MOUNTAIN VIEW AS NEEDED TO COMPLETE THE WORK.
11. LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE BASED ON GROUND PENETRATION RADAR AND SPOT POTHOLING AND ARE TO BE CONSIDERED AS APPROXIMATE ONLY.
12. ANY TRAIL REPAIR WORK SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER, AND BE COMPLETED BY THE END OF THE CONSTRUCTION WORK SEASON OR WHEN THE ENGINEER DEEMS REPAIR IS NECESSARY TO ALLOW SAFE AND NORMAL USE FOR SEGMENTS OF TRAIL THAT ARE OPEN TO PUBLIC.
13. PRIOR TO PERFORMING ANY WORK IN THE VICINITY OF EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL VERIFY THEIR LOCATION AND DEPTH AND TAKE PROPER PRECAUTIONS TO AVOID ANY DAMAGE TO THEM. CALL U.S.A. (UNDERGROUND SERVICE ALERT) 48 HOURS PRIOR TO COMMENCING WORK AT 1 (800) 227-2600.
14. CONTRACTOR SHALL REMOVE DEBRIS, UNUSED MATERIALS, CONCRETE FORMS AND OTHER MATERIALS USED DURING THE CONSTRUCTION FROM THE PROJECT SITE. ALL ACCESS ROADS, TEMPORARY CONSTRUCTION STAGING AREAS, ENVIRONMENTALLY SENSITIVE AREAS, SITE, MAINTENANCE ROADS SHALL BE CLEARED AS DIRECTED, CLEANED AND RESTORED IN-KIND AS NEEDED.
15. CONTRACTOR SHALL NOT STORE, OPERATE OR HANDLE ANY EQUIPMENT OR MATERIALS WITHIN PRIVATE OR PUBLIC OWNED AREAS INCLUDING CITY STREETS UNLESS CONTRACTOR OBTAINS PRIOR APPROVAL FROM DESIGNATED OWNER(S).
16. CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL FROM THE CITY OF PALO ALTO AND CITY OF MOUNTAIN VIEW FOR THEIR PROPOSED TRUCK ROUTE/HAUL PLAN FOR THE PROJECT.
17. CONTRACTOR SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF THE ENCROACHMENT PERMIT ISSUED BY THE CITY OF PALO ALTO AND SHALL COORDINATE WITH ALL APPLICABLE CITY DEPARTMENTS AS NECESSARY TO ENSURE STRICT ADHERENCE TO THE PERMIT REQUIREMENTS.
18. CONTRACTOR SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF THE EXCAVATION PERMIT ISSUED BY THE CITY OF MOUNTAIN VIEW AND SHALL COORDINATE WITH ALL APPLICABLE CITY DEPARTMENTS AS NECESSARY TO ENSURE STRICT ADHERENCE TO PERMIT REQUIREMENTS.
19. CONTRACTOR SHALL OBTAIN A NOISE EXCEPTION PERMIT FROM THE CITY OF PALO ALTO CONSISTENT WITH THE PROJECT SPECIFICATIONS WHICH THE CITY MUST APPROVE WITH THEIR STAMPED CERTIFICATION, PRIOR TO ACCESSING CITY STREETS.
20. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGED CITY IMPROVEMENTS SUCH AS UTILITIES, SIDEWALKS, CURBS, GUTTERS, AND ASPHALT PAVEMENT, AND SHALL BE REQUIRED TO REPLACE TO THE SATISFACTION OF THE CITY ENGINEER AT THE EARLIEST AVAILABILITY WITHIN THE WORK SEASON.
21. CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS.
22. CONTRACTOR SHALL MAINTAIN ACCESS (PEDESTRIAN, BICYCLIST, AND VEHICULAR) AT ALL TIMES EXCEPT AS NOTED AND APPROVED BY THE DISTRICT, CITY OF PALO ALTO. AND CITY OF MOUNTAIN VIEW.
23. CONTRACTOR SHALL REMOVE UNUSED MATERIAL FROM CLOSED AREAS THAT WILL BE OPENED TO THE PUBLIC, BEFORE OPENING THE AREAS FOR PUBLIC USE DURING THE NO-CONSTRUCTION WORK MONTHS.
24. ANY TRAIL DAMAGE SHALL BE RESTORED IN KIND AND TO THE CITY'S SATISFACTION BEFORE OPENING THE CLOSED TRAILS FOR PUBLIC USE.

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DOCUMENT NUMBER: PAA_LP-C--1039-85288

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
5/05/2025		
DESIGN		
M. HUSSAINI		
DRAWN		
K. LAM	ENGINEER	DATE
CHECKED		
K. NEUMAN		

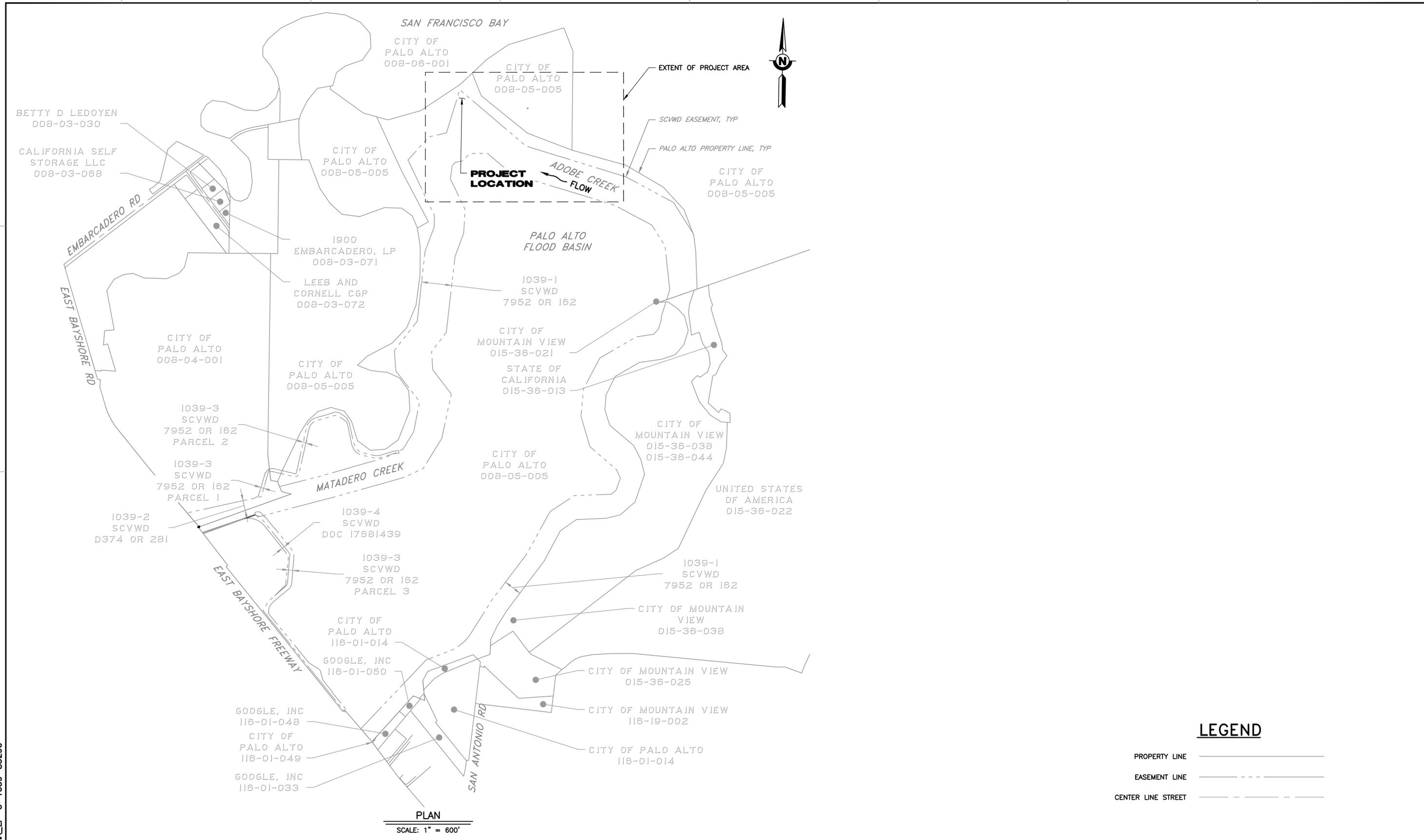
PROJECT NAME AND SHEET DESCRIPTION:

PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT

GENERAL NOTES

SCALE AS SHOWN	PROJECT NUMBER
VERIFY SCALES	10394001
 BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE:
	G-03
	SHEET NUMBER:
	3

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3
2
1
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DOCUMENT NUMBER: PAA_LP-C-1039-85290



PLAN
SCALE: 1" = 600'

LEGEND

PROPERTY LINE	—————
EASEMENT LINE	- - - - -
CENTER LINE STREET	- - - - -

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

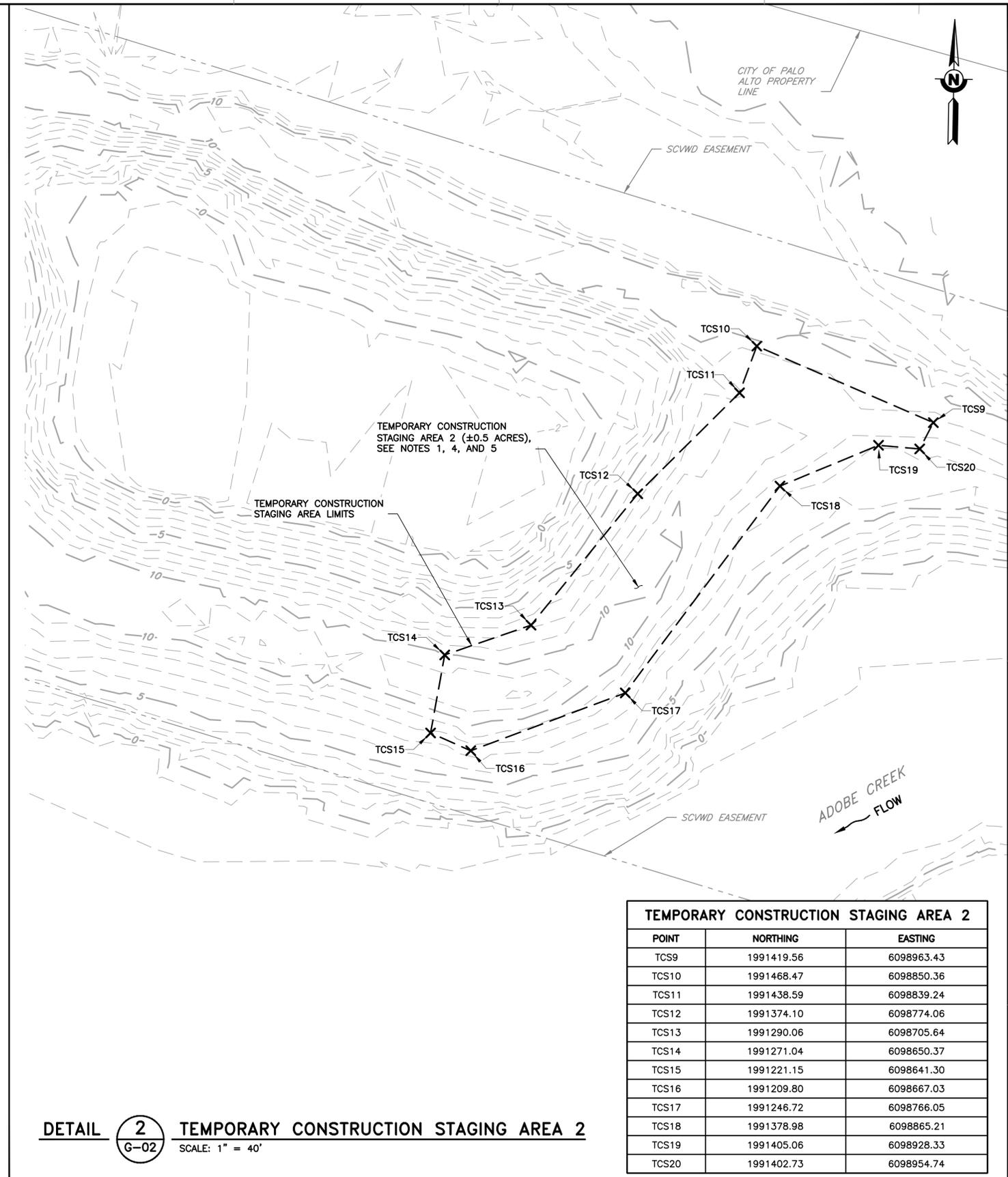
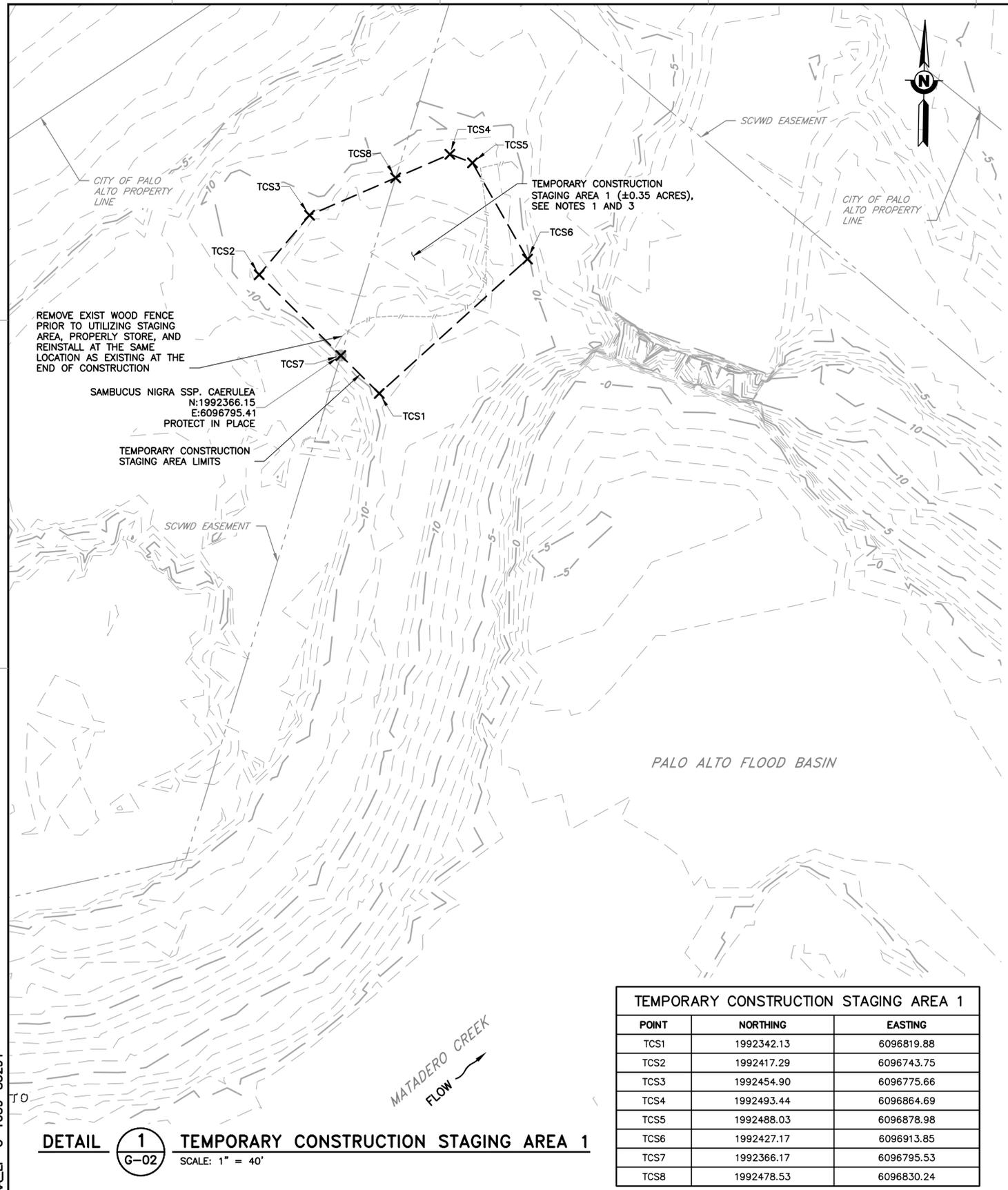
DATE 5/05/2025	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
DESIGN M. HUSSAINI		
DRAWN K. LAM		
CHECKED K. NEUMAN		
ENGINEER		

PROJECT NAME AND SHEET DESCRIPTION:
PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT
 SITE MAP AND PROPERTY OWNERSHIP

SCALE AS SHOWN	PROJECT NUMBER 10394001
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: G-05
	SHEET NUMBER: 5

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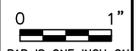


TEMPORARY CONSTRUCTION STAGING AREA 1		
POINT	NORTHING	EASTING
TCS1	1992342.13	6096819.88
TCS2	1992417.29	6096775.66
TCS3	1992454.90	6096775.66
TCS4	1992493.44	6096864.69
TCS5	1992488.03	6096878.98
TCS6	1992427.17	6096913.85
TCS7	1992366.17	6096795.53
TCS8	1992478.53	6096830.24

DETAIL 1
G-02 TEMPORARY CONSTRUCTION STAGING AREA 1
 SCALE: 1" = 40'

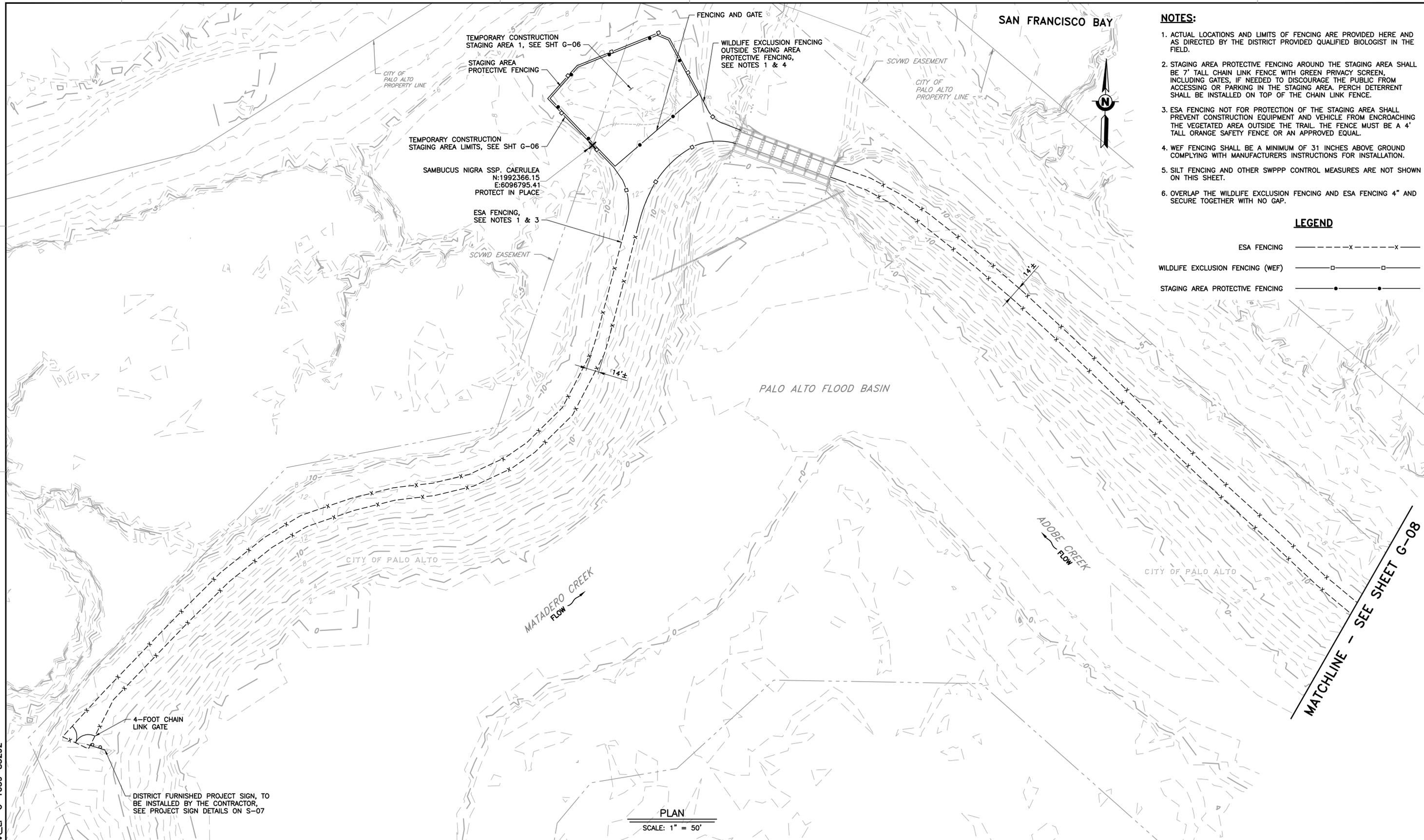
DETAIL 2
G-02 TEMPORARY CONSTRUCTION STAGING AREA 2
 SCALE: 1" = 40'

TEMPORARY CONSTRUCTION STAGING AREA 2		
POINT	NORTHING	EASTING
TCS9	1991419.56	6098963.43
TCS10	1991468.47	6098850.36
TCS11	1991438.59	6098839.24
TCS12	1991374.10	6098774.06
TCS13	1991290.06	6098705.64
TCS14	1991271.04	6098650.37
TCS15	1991221.15	6098641.30
TCS16	1991209.80	6098667.03
TCS17	1991246.72	6098766.05
TCS18	1991378.98	6098865.21
TCS19	1991405.06	6098928.33
TCS20	1991402.73	6098954.74

	REV DESCRIPTION DATE APPR	REFERENCE INFORMATION AND NOTES 1. CONTRACTOR MUST PLACE AGGREGATE BASE ROCK OVER GEOTEXTILE FABRIC ON TEMPORARY CONSTRUCTION STAGING AREAS. 2. AT THE CONCLUSION OF THE WORK, THE CONTRACTOR MUST CLEAR AND GRUB THE STAGING AREA WITHIN THE LIMITS IMPACTED BY THE CONTRACTOR'S WORK. 3. FOR STAGING AREA 1, CONTRACTOR CAN GRADE THE SITE AS NEEDED. 4. FOR STAGING AREA 2, CONTRACTOR IS NOT ALLOWED TO GRADE THE SITE AND MUST UTILIZE THE AREA BASED ON THE EXISTING GROUND CONTOURS. 5. STAGING AREA 2 CAN ONLY BE USED FOR PARKING OR TRAILER ESTABLISHMENT.	DATE 5/05/2025 DESIGN M. HUSSAINI DRAWN J. ARIANI CHECKED K. NEUMAN	ENGINEERING CERTIFICATION  ENGINEER DATE	SANTA CLARA VALLEY WATER DISTRICT 	PROJECT NAME AND SHEET DESCRIPTION: PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT TEMPORARY CONSTRUCTION STAGING AREA	SCALE AS SHOWN VERIFY SCALES  BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 10394001 SHEET CODE: G-06 SHEET NUMBER: 6
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DOCUMENT NUMBER: PAA_LP-C-1039-85292



- NOTES:**
1. ACTUAL LOCATIONS AND LIMITS OF FENCING ARE PROVIDED HERE AND AS DIRECTED BY THE DISTRICT PROVIDED QUALIFIED BIOLOGIST IN THE FIELD.
 2. STAGING AREA PROTECTIVE FENCING AROUND THE STAGING AREA SHALL BE 7' TALL CHAIN LINK FENCE WITH GREEN PRIVACY SCREEN, INCLUDING GATES, IF NEEDED TO DISCOURAGE THE PUBLIC FROM ACCESSING OR PARKING IN THE STAGING AREA. PERCH DETERRENT SHALL BE INSTALLED ON TOP OF THE CHAIN LINK FENCE.
 3. ESA FENCING NOT FOR PROTECTION OF THE STAGING AREA SHALL PREVENT CONSTRUCTION EQUIPMENT AND VEHICLE FROM ENCRANCHING THE VEGETATED AREA OUTSIDE THE TRAIL. THE FENCE MUST BE A 4' TALL ORANGE SAFETY FENCE OR AN APPROVED EQUAL.
 4. WEF FENCING SHALL BE A MINIMUM OF 31 INCHES ABOVE GROUND COMPLYING WITH MANUFACTURERS INSTRUCTIONS FOR INSTALLATION.
 5. SILT FENCING AND OTHER SWPPP CONTROL MEASURES ARE NOT SHOWN ON THIS SHEET.
 6. OVERLAP THE WILDLIFE EXCLUSION FENCING AND ESA FENCING 4" AND SECURE TOGETHER WITH NO GAP.

LEGEND

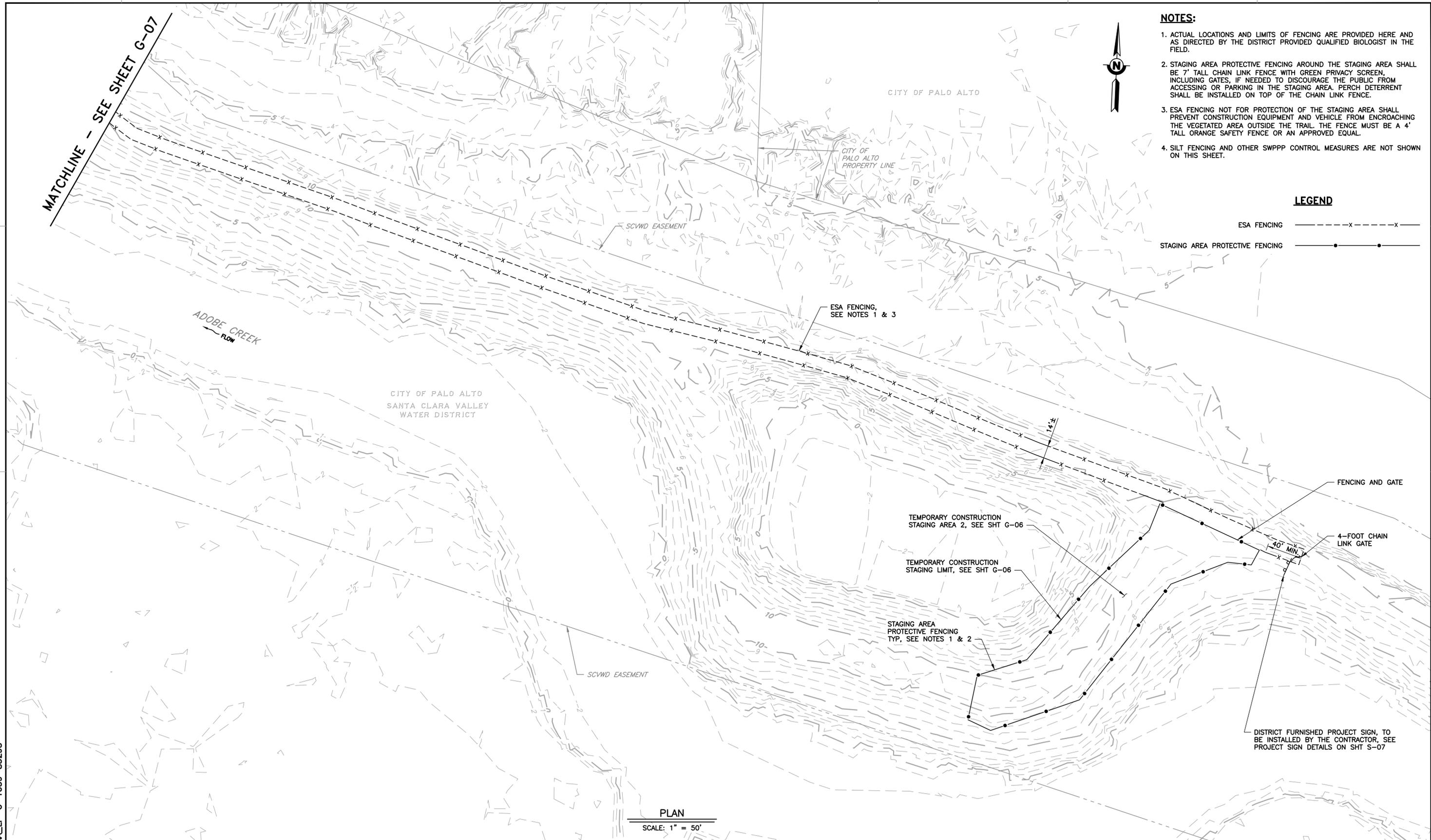
- ESA FENCING
- WILDLIFE EXCLUSION FENCING (WEF)
- STAGING AREA PROTECTIVE FENCING

PLAN
SCALE: 1" = 50'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
					5/05/2025			PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT FENCING PLAN NO 1	AS SHOWN	10394001
									VERIFY SCALES  BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: G-07 SHEET NUMBER: 7

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DOCUMENT NUMBER: PAA_LP-C-1039-85293



NOTES:

1. ACTUAL LOCATIONS AND LIMITS OF FENCING ARE PROVIDED HERE AND AS DIRECTED BY THE DISTRICT PROVIDED QUALIFIED BIOLOGIST IN THE FIELD.
2. STAGING AREA PROTECTIVE FENCING AROUND THE STAGING AREA SHALL BE 7' TALL CHAIN LINK FENCE WITH GREEN PRIVACY SCREEN, INCLUDING GATES, IF NEEDED TO DISCOURAGE THE PUBLIC FROM ACCESSING OR PARKING IN THE STAGING AREA. PERCH DETERRENT SHALL BE INSTALLED ON TOP OF THE CHAIN LINK FENCE.
3. ESA FENCING NOT FOR PROTECTION OF THE STAGING AREA SHALL PREVENT CONSTRUCTION EQUIPMENT AND VEHICLE FROM ENCRANCHING THE VEGETATED AREA OUTSIDE THE TRAIL. THE FENCE MUST BE A 4' TALL ORANGE SAFETY FENCE OR AN APPROVED EQUAL.
4. SILT FENCING AND OTHER SWPPP CONTROL MEASURES ARE NOT SHOWN ON THIS SHEET.

LEGEND



FENCING AND GATE

4-FOOT CHAIN LINK GATE

40' MIN.

DISTRICT FURNISHED PROJECT SIGN, TO BE INSTALLED BY THE CONTRACTOR, SEE PROJECT SIGN DETAILS ON SHT S-07

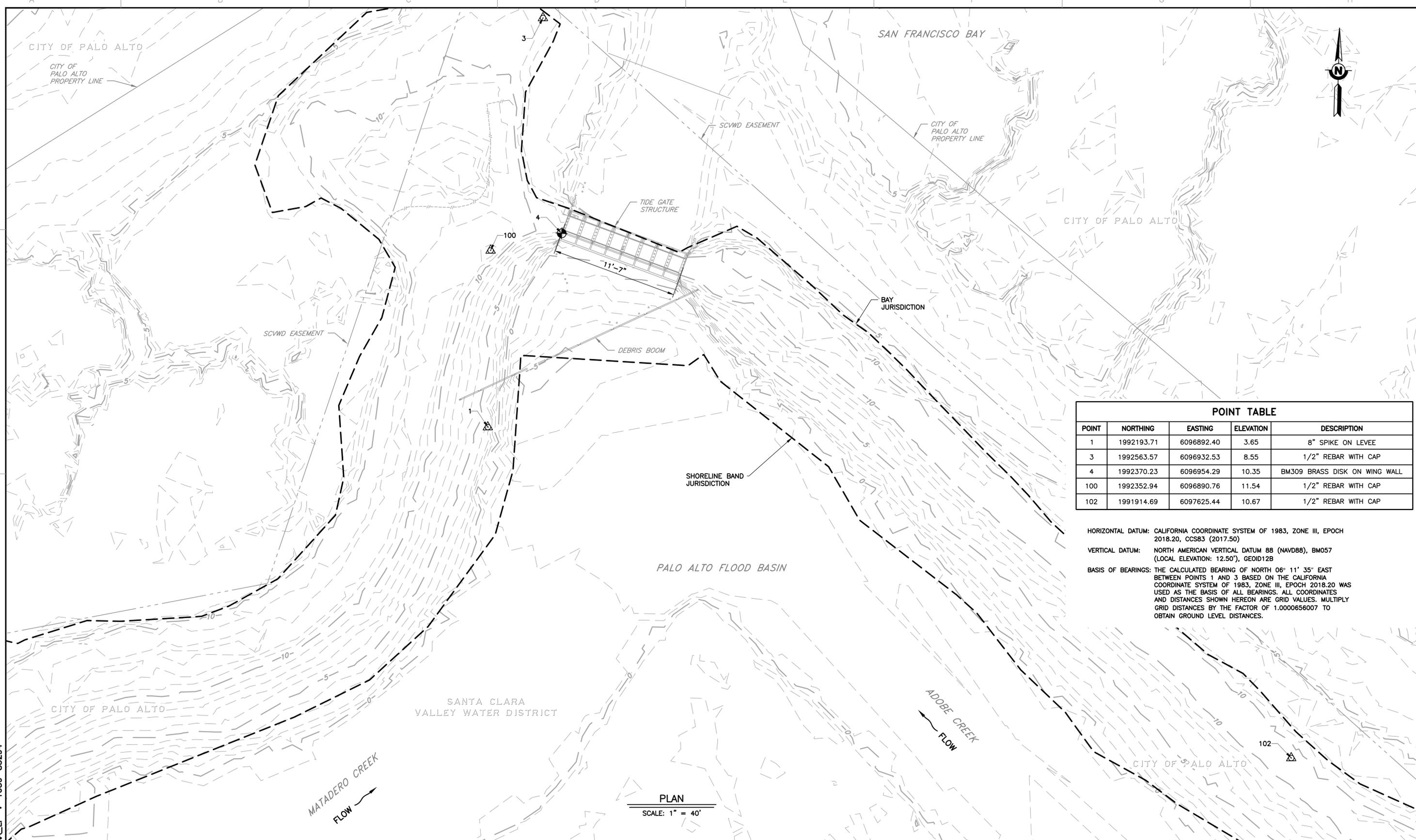
REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE 5/05/2025	ENGINEERING CERTIFICATION M. HUSSAINI No. 90585 CIVIL STATE OF CALIFORNIA	SANTA CLARA VALLEY WATER DISTRICT
DRAWN J. ARIANI	ENGINEER	DATE
CHECKED K. NEUMAN		

PROJECT NAME AND SHEET DESCRIPTION: PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT FENCING PLAN NO 2	SCALE AS SHOWN VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 10394001 SHEET CODE: G-08 SHEET NUMBER: 8
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DOCUMENT NUMBER: PAA_LP-V-1039-85294



POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1992193.71	6096892.40	3.65	8" SPIKE ON LEVEE
3	1992563.57	6096932.53	8.55	1/2" REBAR WITH CAP
4	1992370.23	6096954.29	10.35	BM309 BRASS DISK ON WING WALL
100	1992352.94	6096890.76	11.54	1/2" REBAR WITH CAP
102	1991914.69	6097625.44	10.67	1/2" REBAR WITH CAP

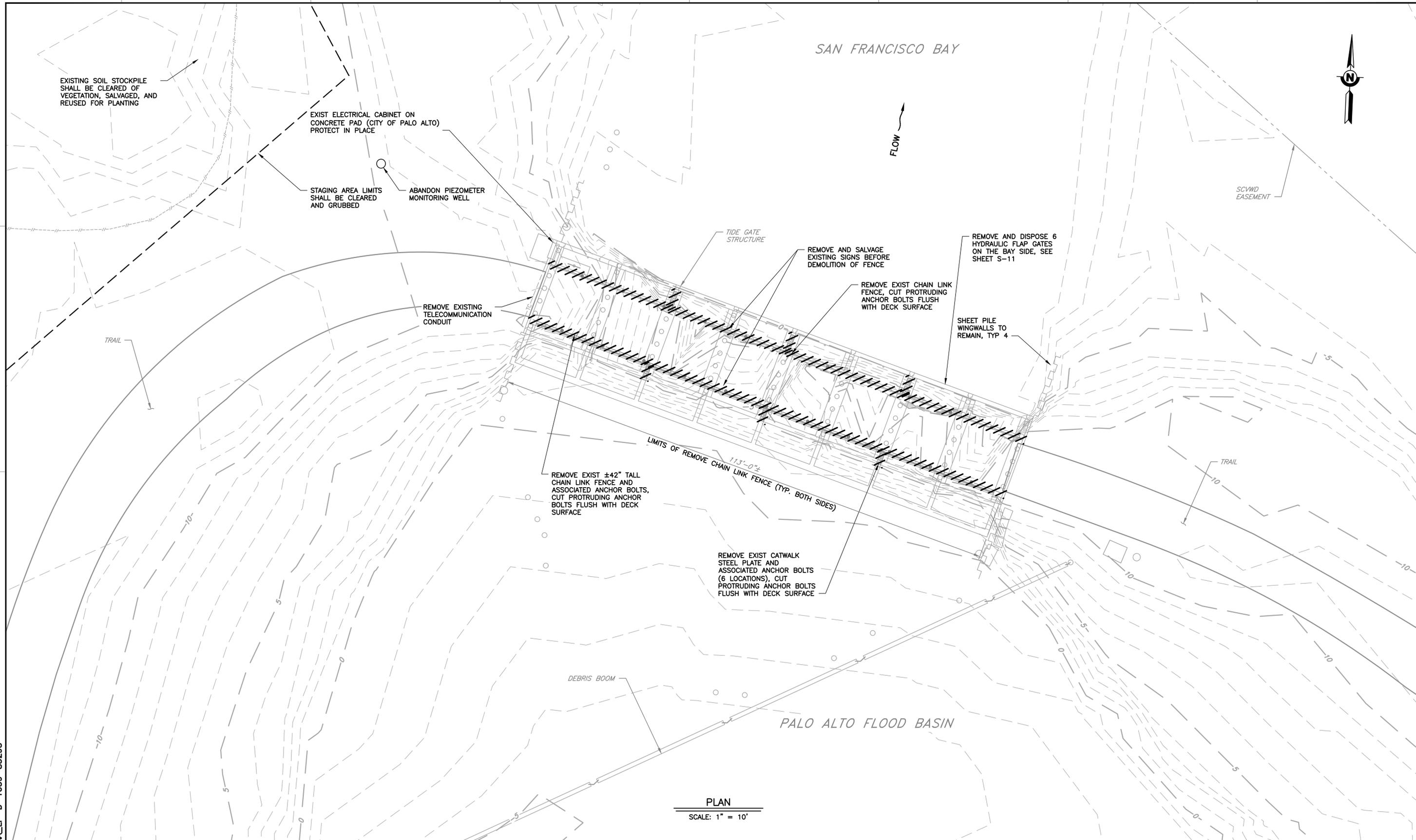
HORIZONTAL DATUM: CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE III, EPOCH 2018.20, CCS83 (2017.50)
 VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM 88 (NAVD88), BM057 (LOCAL ELEVATION: 12.50'), GEOD12B
 BASIS OF BEARINGS: THE CALCULATED BEARING OF NORTH 06° 11' 35" EAST BETWEEN POINTS 1 AND 3 BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE III, EPOCH 2018.20 WAS USED AS THE BASIS OF ALL BEARINGS. ALL COORDINATES AND DISTANCES SHOWN HEREON ARE GRID VALUES. MULTIPLY GRID DISTANCES BY THE FACTOR OF 1.0000656007 TO OBTAIN GROUND LEVEL DISTANCES.

PLAN
 SCALE: 1" = 40'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE 5/05/2025	ENGINEERING CERTIFICATION M. HUSSAINI	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION: PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT	SCALE AS SHOWN	PROJECT NUMBER 10394001
								SURVEY CONTROL LAYOUT AND POINT TABLE	VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: V-01
						B. LUKEN	ENGINEER			SHEET NUMBER: 9

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DOCUMENT NUMBER: PAA_LP-D-1039-85295



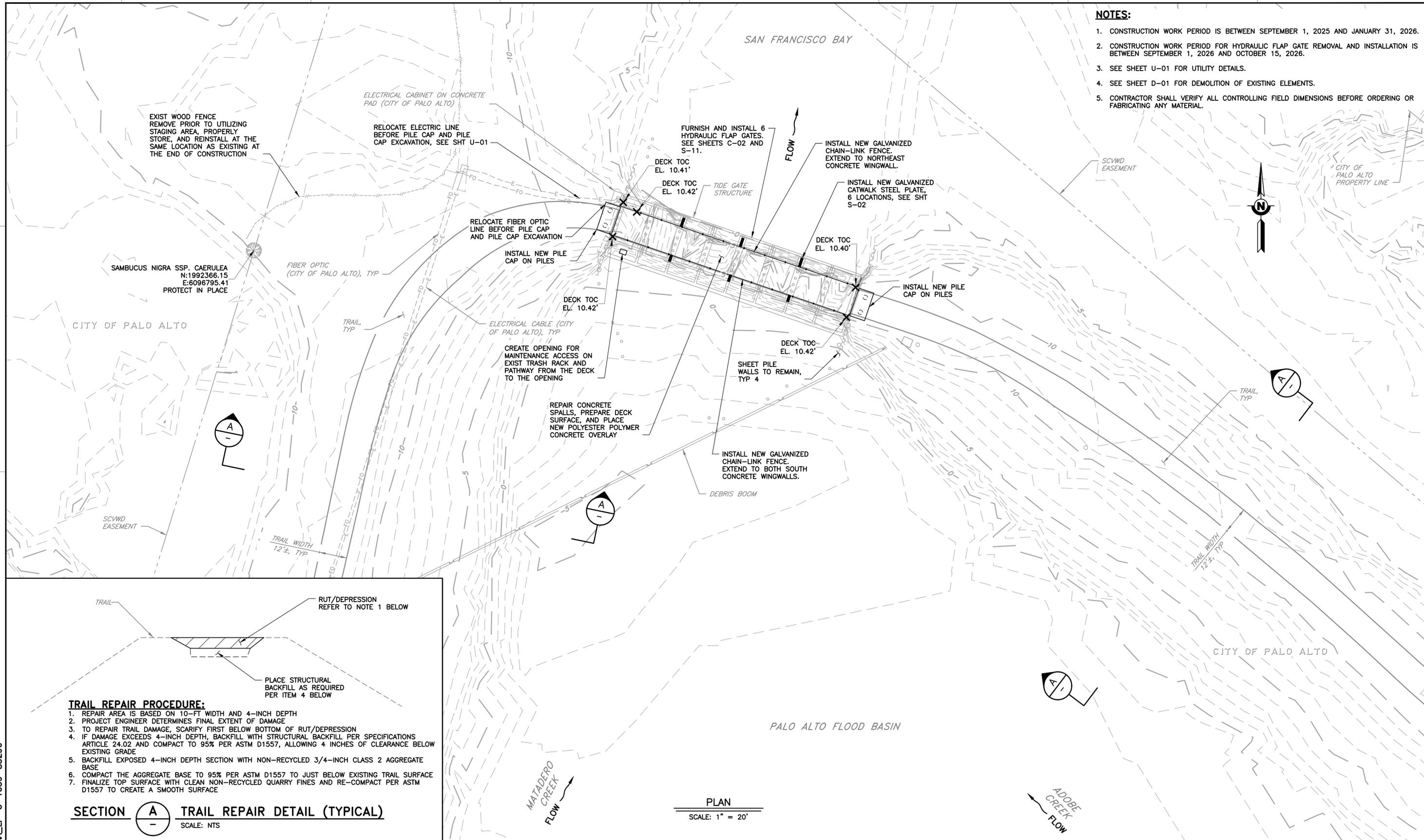
PLAN
 SCALE: 1" = 10'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

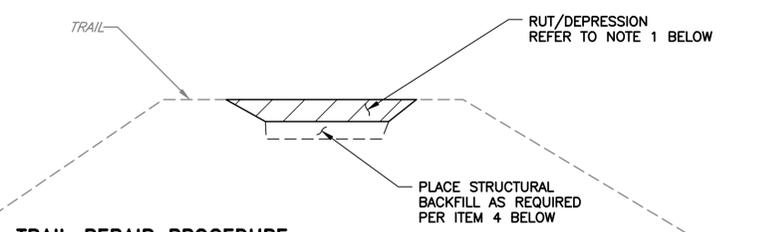
DATE 5/05/2025 DESIGN M. HUSSAINI DRAWN J. ARIANI CHECKED K. NEUMAN	ENGINEERING CERTIFICATION  ENGINEER	SANTA CLARA VALLEY WATER DISTRICT 	PROJECT NAME AND SHEET DESCRIPTION: PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT DEMOLITION	SCALE AS SHOWN  VERIFY SCALES <small>BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</small>	PROJECT NUMBER 10394001 SHEET CODE: D-01 SHEET NUMBER: 10
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USER: OscarReyn 5/5/2025 1:36 PM
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DOCUMENT NUMBER: PAA_LP-C-1039-85296



- NOTES:**
- CONSTRUCTION WORK PERIOD IS BETWEEN SEPTEMBER 1, 2025 AND JANUARY 31, 2026.
 - CONSTRUCTION WORK PERIOD FOR HYDRAULIC FLAP GATE REMOVAL AND INSTALLATION IS BETWEEN SEPTEMBER 1, 2026 AND OCTOBER 15, 2026.
 - SEE SHEET U-01 FOR UTILITY DETAILS.
 - SEE SHEET D-01 FOR DEMOLITION OF EXISTING ELEMENTS.
 - CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



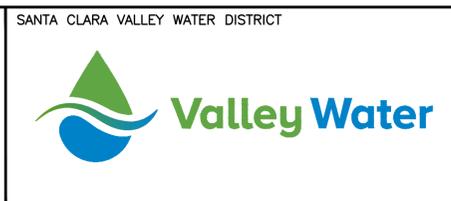
- TRAIL REPAIR PROCEDURE:**
- REPAIR AREA IS BASED ON 10-FT WIDTH AND 4-INCH DEPTH
 - PROJECT ENGINEER DETERMINES FINAL EXTENT OF DAMAGE
 - TO REPAIR TRAIL DAMAGE, SCARIFY FIRST BELOW BOTTOM OF RUT/DEPRESSION
 - IF DAMAGE EXCEEDS 4-INCH DEPTH, BACKFILL WITH STRUCTURAL BACKFILL PER SPECIFICATIONS ARTICLE 24.02 AND COMPACT TO 95% PER ASTM D1557, ALLOWING 4 INCHES OF CLEARANCE BELOW EXISTING GRADE
 - BACKFILL EXPOSED 4-INCH DEPTH SECTION WITH NON-RECYCLED 3/4-INCH CLASS 2 AGGREGATE BASE
 - COMPACT THE AGGREGATE BASE TO 95% PER ASTM D1557 TO JUST BELOW EXISTING TRAIL SURFACE
 - FINALIZE TOP SURFACE WITH CLEAN NON-RECYCLED QUARRY FINES AND RE-COMPACT PER ASTM D1557 TO CREATE A SMOOTH SURFACE

SECTION A TRAIL REPAIR DETAIL (TYPICAL)
SCALE: NTS

PLAN
SCALE: 1" = 20'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE	5/05/2025
DESIGN	M. HUSSAINI
DRAWN	T. TRAN
CHECKED	K. NEUMAN
ENGINEER	
DATE	

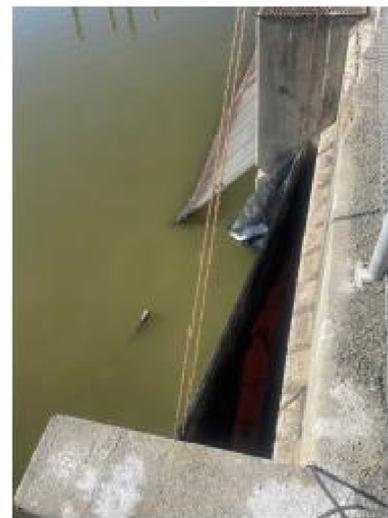


PROJECT NAME AND SHEET DESCRIPTION:
PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT
 GENERAL PLAN

SCALE AS SHOWN	PROJECT NUMBER 10394001
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-01
	SHEET NUMBER: 11

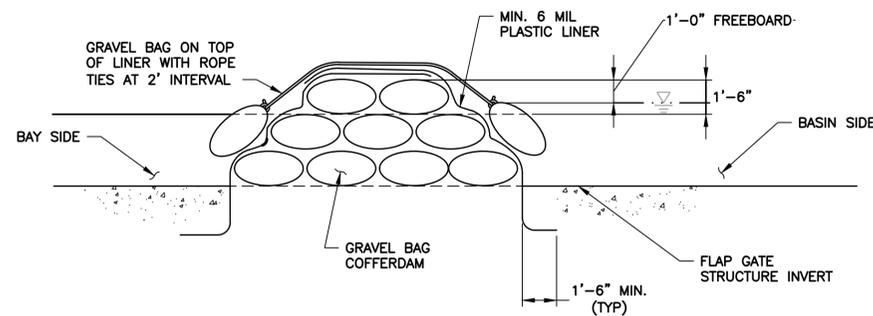
2 USERNAME: OscarReyn 5/5/2025 1:36 PM
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DOCUMENT NUMBER: PAA_LP-C-1039-85297



DETAIL B CONTROL OF WATER EXAMPLE PHOTOS

SCALE: NTS

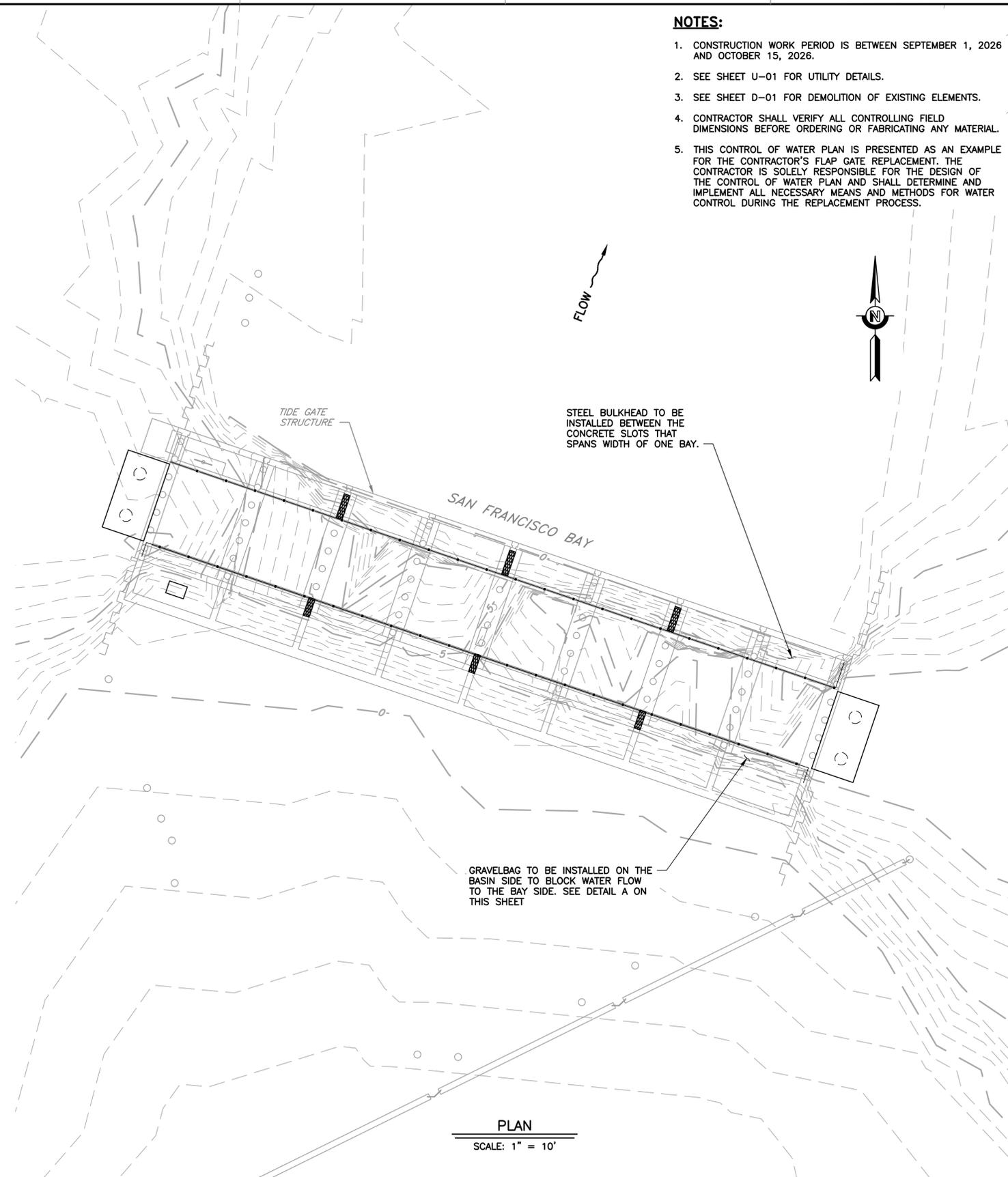


DETAIL A COFFERDAM

SCALE: 1" = 4'

NOTES:

- CONSTRUCTION WORK PERIOD IS BETWEEN SEPTEMBER 1, 2026 AND OCTOBER 15, 2026.
- SEE SHEET U-01 FOR UTILITY DETAILS.
- SEE SHEET D-01 FOR DEMOLITION OF EXISTING ELEMENTS.
- CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
- THIS CONTROL OF WATER PLAN IS PRESENTED AS AN EXAMPLE FOR THE CONTRACTOR'S FLAP GATE REPLACEMENT. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN OF THE CONTROL OF WATER PLAN AND SHALL DETERMINE AND IMPLEMENT ALL NECESSARY MEANS AND METHODS FOR WATER CONTROL DURING THE REPLACEMENT PROCESS.

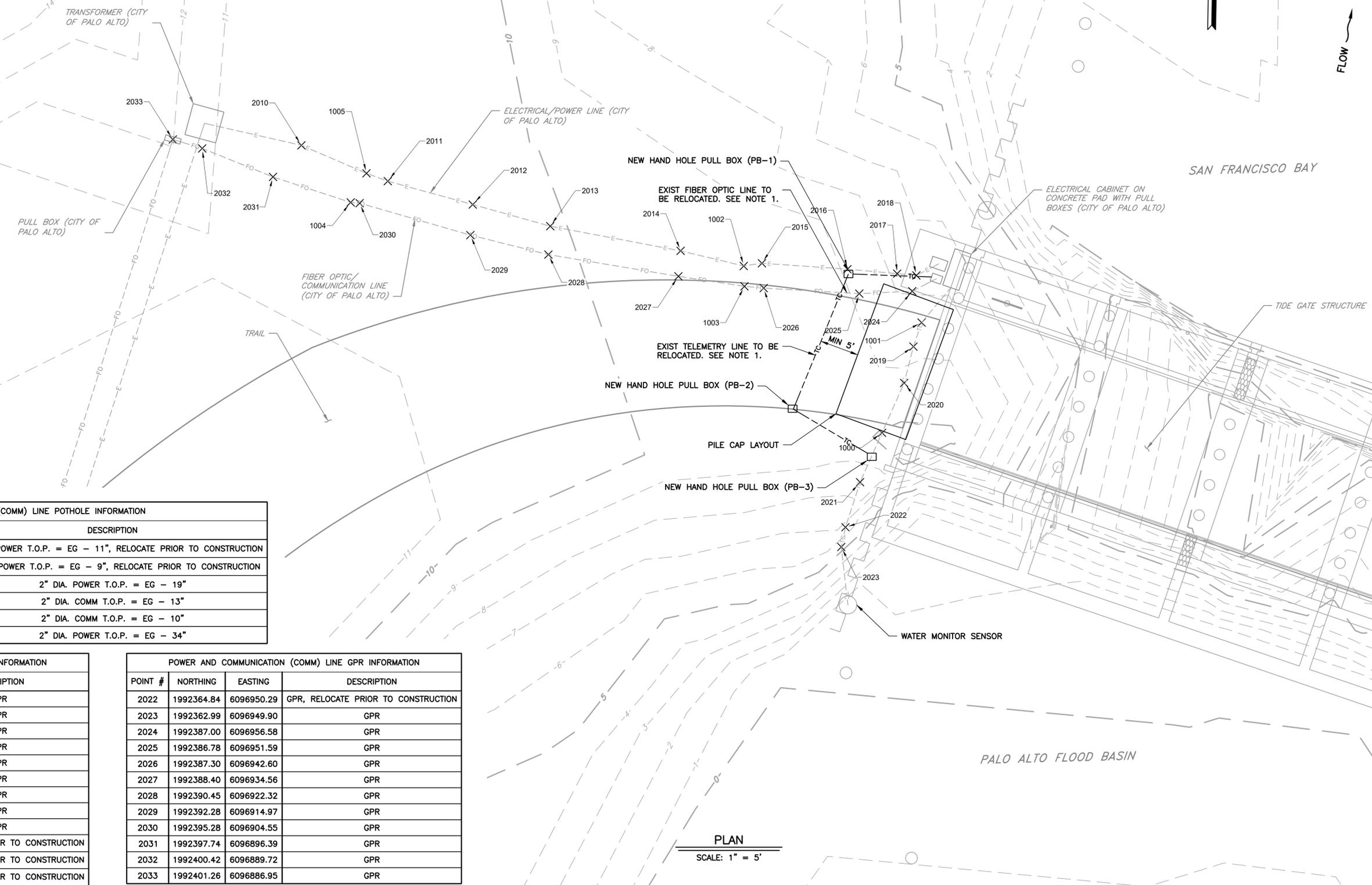


REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER
					5/05/2025	M. HUSSAINI			0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	10394001 SHEET CODE: C-02 SHEET NUMBER: 12
						C. SARMIENTO				
						CHECKED				
						K. NEUMAN				
						ENGINEER	DATE	PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT CONTROL OF WATER EXAMPLE		

N2 USERNAME: OscarReyn 5/5/2025 1:37 PM
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DOCUMENT NUMBER: PAA_LP-U-1039-85298

- NOTES:**
- COORDINATE WITH PROJECT ENGINEER FOR FINAL UTILITY TRENCHING LOCATION. SEE SHEET U-02 FOR TRENCHING AND CONDUIT DETAILS.
 - AFTER COMPLETION OF TRENCHING AND CONDUITS, COORDINATE WITH CITY OF PALO ALTO FOR FINAL WIRE PULLING AND CONNECTION TO THE PANEL BOARD.
 - INSTALL PULL BOX SIZE OF 17"x30"x24"(TYP.) MATCHING EXISTING HAND HOLES IN THE FIELD ACCORDING TO CITY OF PALO ALTO STANDARDS.



POWER AND COMMUNICATION (COMM) LINE POTHOLE INFORMATION				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1000	1992373.71	6096953.73	10.02	1" DIA. POWER T.O.P. = EG - 11", RELOCATE PRIOR TO CONSTRUCTION
1001	1992384.06	6096957.46	9.99	1" DIA. POWER T.O.P. = EG - 9", RELOCATE PRIOR TO CONSTRUCTION
1002	1992389.38	6096940.72	9.96	2" DIA. POWER T.O.P. = EG - 19"
1003	1992387.47	6096940.78	10.07	2" DIA. COMM T.O.P. = EG - 13"
1004	1992395.35	6096903.70	10.36	2" DIA. COMM T.O.P. = EG - 10"
1005	1992398.08	6096905.19	10.09	2" DIA. POWER T.O.P. = EG - 34"

POWER AND COMMUNICATION (COMM) LINE GPR INFORMATION			
POINT #	NORTHING	EASTING	DESCRIPTION
2010	1992400.71	6096899.06	GPR
2011	1992397.34	6096907.20	GPR
2012	1992395.14	6096915.19	GPR
2013	1992393.11	6096922.49	GPR
2014	1992390.80	6096934.77	GPR
2015	1992389.64	6096942.43	GPR
2016	1992389.08	6096950.48	GPR
2017	1992388.66	6096955.16	GPR
2018	1992388.49	6096956.97	GPR
2019	1992381.81	6096956.69	GPR, RELOCATE PRIOR TO CONSTRUCTION
2020	1992378.39	6096955.82	GPR, RELOCATE PRIOR TO CONSTRUCTION
2021	1992369.08	6096951.67	GPR, RELOCATE PRIOR TO CONSTRUCTION

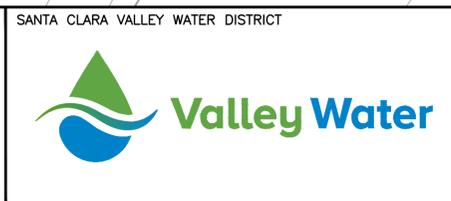
POWER AND COMMUNICATION (COMM) LINE GPR INFORMATION			
POINT #	NORTHING	EASTING	DESCRIPTION
2022	1992364.84	6096950.29	GPR, RELOCATE PRIOR TO CONSTRUCTION
2023	1992362.99	6096949.90	GPR
2024	1992387.00	6096956.58	GPR
2025	1992386.78	6096951.59	GPR
2026	1992387.30	6096942.60	GPR
2027	1992388.40	6096934.56	GPR
2028	1992390.45	6096922.32	GPR
2029	1992392.28	6096914.97	GPR
2030	1992395.28	6096904.55	GPR
2031	1992397.74	6096896.39	GPR
2032	1992400.42	6096889.72	GPR
2033	1992401.26	6096886.95	GPR

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

- POTHOLE AND GROUND PENETRATING RADAR (GPR) DATA COLLECTED IN JANUARY 2024.

DATE: 5/05/2025
 DESIGN: M. HUSSAINI
 DRAWN: J. ARIANI
 CHECKED: K. NEUMAN
 ENGINEER: DATE



PROJECT NAME AND SHEET DESCRIPTION:
PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT
 SITE UTILITY PLAN

SCALE: AS SHOWN
 VERIFY SCALES
 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

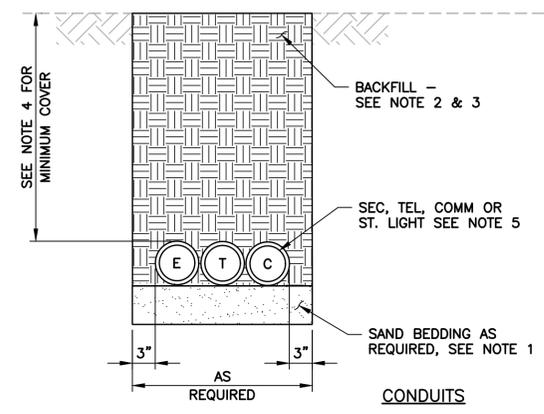
PROJECT NUMBER: 10394001
 SHEET CODE: U-01
 SHEET NUMBER: 13

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DOCUMENT NUMBER: PAA_LP-U-1039-85299

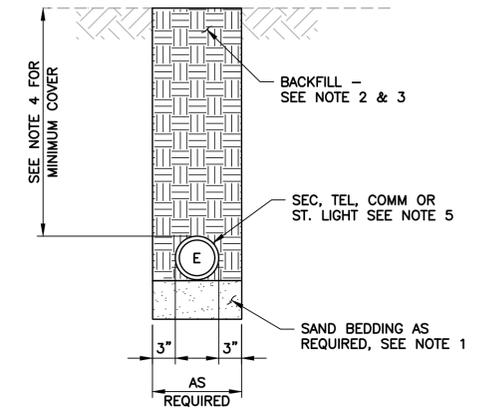
NOTES:

1. IF THE ELECTRIC UNDERGROUND INSPECTOR DETERMINES THAT THE BOTTOM OF THE TRENCH IS ROCKY, A 2" SAND BEDDING MUST BE INSTALLED BEFORE THE CONDUIT.
2. BACKFILL IN UNIMPROVED AREAS 12" OF CLEAN NATURAL SAND PER CALTRANS STD SPECS SEC 19-3 025B ON TOP OF THE UPPERMOST CONDUIT, 90% COMPACTION; TOPPED WITH EXCAVATED NATIVESOIL, 85% COMPACTION.
3. BACKFILL IN IMPROVED AREAS (STREETS, SIDEWALKS, DRIVEWAYS, ETC OF ASPHALT OR CONCRETE) THE BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH THE CITY OF PALO ALTO PUBLIC WORKS DEPARTMENT STANDARD DRAWING NO 401, TRENCHES - TYPICAL CROSS-SECTIONS.
4. MINIMUM COVER FOR DIRECT BURIED CONDUIT:
 - a. SECONDARY (NON TRAFFIC) 24"
 - b. COMMUNICATION (NON TRAFFIC) 24"
 - c. SECONDARY (TRAFFIC) 30"
 - d. COMMUNICATION (TRAFFIC) 30"
5. HORIZONTAL SPACING BETWEEN JOINTLY INSTALLED SECONDARY, COMMUNICATION, TELEPHONE, AND STREETLIGHTING CABLES OR CONDUIT MAY BE RANDOM UNLESS OTHERWISE SPECIFIED. THERE SHALL BE A MINIMUM OF 1" CLEARANCE AROUND ALL CONDUITS AT GROUND LEVEL.



DETAIL 1 TYPICAL TRENCH
SCALE: NTS

CONDUITS
 E - ELECTRIC
 T - TELEPHONE
 C - CABLE
 G - GAS



DETAIL 2 TYPICAL SINGLE TRENCH
SCALE: NTS

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

DATE	ENGINEERING CERTIFICATION
5/05/2025	
DESIGN	
M. HUSSAINI	
DRAWN	
C.SARMIENTO	
CHECKED	DATE
K. NEUMAN	ENGINEER

SANTA CLARA VALLEY WATER DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
**PALO ALTO FLOOD BASIN TIDE GATE
 STRUCTURE SEISMIC RETROFIT
 AND REHABILITATION PROJECT**
 PULL BOX AND TRENCH DETAILS

SCALE AS SHOWN	PROJECT NUMBER
0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	10394001
VERIFY SCALES	SHEET CODE:
	U-02
	SHEET NUMBER:
	14

GENERAL NOTES (STRUCTURAL):

- CONTRACTOR MUST VERIFY ALL FIELD DIMENSIONS AND EXISTING FIELD CONDITIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH CURRENT FEDERAL, STATE AND LOCAL SAFETY AND HEALTH STANDARDS AND ORDINANCES.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL DIMENSIONS AND DETAILS FROM PLANS BY OTHER TRADES AND ALL FIELD CONDITIONS. ANY DISCREPANCY FOUND MUST BE REPORTED TO THE SCVWD AND RESOLVED PRIOR TO FURTHER CONSTRUCTION IN RELATION TO THE DISCREPANCY.
- DIMENSIONS SUCH AS THICKNESS, CLEARANCE TO REINFORCING BARS, ETC. MUST BE NET (NON-NOMINAL) UNLESS OTHERWISE NOTED. ANY VARIATION, IF NEEDED, MUST BE APPROVED BY SCVWD PRIOR TO IMPLEMENTING THEM.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR TEMPORARY SHORING FOR EXISTING OR NEW CONSTRUCTION OF TRENCHES; THEIR SELECTION, DESIGN, INSTALLATION, SAFE MAINTENANCE AND REMOVAL AS REQUIRED. ALSO, SHORING AT TRENCHES AND SHORING FOR SLOPE STABILITY MUST BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR MUST COMPLY WITH EXCAVATION AND SAFETY REQUIREMENTS BY CAL-OSHA.
- WHERE SHORING IS REQUIRED, CONTRACTOR MUST SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS DULY DESIGNED, PREPARED AND WET SIGNED BY A CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA FOR REVIEW PRIOR TO CONSTRUCTION.
- ALL EXISTING FACILITIES, STRUCTURES, TREES, FENCES, LANDSCAPING, ETC., DESIGNATED "EXIST" OR SHOWN AS EXISTING ARE TO REMAIN AND BE PROTECTED IN PLACE. ONLY THOSE SPECIFICALLY DESIGNATED FOR REMOVAL OR DEMOLITION AS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER MUST BE REMOVED.
- LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE BASED ON GROUND PENETRATION RADAR AND SPOT POTHOLING AND ARE TO BE CONSIDERED AS APPROXIMATE ONLY.
- PRIOR TO PERFORMING ANY WORK IN THE VICINITY OF EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR MUST FIELD VERIFY LOCATIONS AND DEPTHS OF UTILITIES AND VERIFY THAT THERE ARE NO UNKNOWN UTILITIES. TAKE PROPER PRECAUTIONS TO AVOID ANY DAMAGE.
- CONSTRUCTION OPERATIONS MUST BE CONDUCTED IN SUCH A MANNER AS TO CAUSE LITTLE INCONVENIENCE AS POSSIBLE TO THE PUBLIC.
- THE CONTRACTOR MUST INSTALL TEMPORARY FENCES AND WARNING SIGNS OR DEVICES AS SHOWN ON THE DRAWINGS OR BY OTHERS AS NECESSARY.
- THE CONTRACTOR MUST COMPLY WITH THE REQUIREMENTS AT THE STATE WATER RESOURCES CONTROL BOARDS FOR STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITIES.
- ALL STEEL EMBEDS, ANCHORS, AND FASTENERS MUST BE HOT-DIPPED GALVANIZED, UNLESS OTHERWISE NOTED.
- CONTRACTOR MUST COORDINATE ALL CONSTRUCTION AND DETAILS PER THESE PLANS, CALTRANS STANDARD PLANS AND RELEVANT CODES AND ORDINANCES. ANY DETAILS NOT SHOWN MUST BE CONSTRUCTED SIMILAR TO ITEMS SHOWN, SUBJECT TO APPROVAL BY THE DISTRICT AND MUST BE CONSIDERED INCLUDED IN THIS CONTRACT.
- CONTRACTOR MUST COORDINATE ANY INSPECTIONS AND TESTING WITH THE DISTRICT'S CERTIFIED INSPECTOR.
- CONTRACTOR MUST SUBMIT MANUFACTURER'S PRODUCT INFORMATION FOR BONDING MATERIAL FOR REVIEW BY THE DISTRICT FOR ANY "DRILL AND BOND" DOWELS.
- FOUNDATION DESIGN IS BASED ON GEOTECHNICAL DESIGN REPORT PREPARED BY CAL HALEY ALDRICH, DATED APRIL 4, 2024.

DESIGN DATA (TIDE GATE STRUCTURE):

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION WITH CA AMENDMENTS

SEISMIC LOADS: CALTRANS SEISMIC DESIGN CRITERIA (SDC) 2.0, APRIL 2019

DEAD LOAD: SELF WEIGHT OF STRUCTURE

LIVE LOAD: HL93 (NO IMPACT) AND 90 PSF PEDESTRIAN LOAD (NEW PILE CAP)
HS15-44 (EXIST TIDE GATE STRUCTURE)

LIVE LOAD SURCHARGE: 240 PSF (VERTICAL)
100 PSF (HORIZONTAL)

MATERIAL DESIGN DATA:

CONCRETE: $f'_c = 4,000$ PSI

REINFORCEMENT: $f_y = 60,000$ PSI
ASTM A934 (PREFABRICATED EPOXY COATED)
ASTM A706

STRUCTURE RAILING: GALVANIZED CARBON STEEL

PIPE: ASTM A53 GR. B, ERW

PLATE: ASTM A36

FLAT BAR (F.B.): ASTM A36

ROUND BAR: ASTM A36

BOLTS: ASTM A325, GALVANIZED

ANCHOR BOLTS: ASTM A307, GALVANIZED

WELDING: 70XX (STEEL)

GALVANIZING: ASTM A123

NOTES:

- ALL STEEL METAL COMPONENTS EXCEPT REBAR MUST BE GALVANIZED UNLESS NOTED OTHERWISE.
- ALL STEEL METAL COMPONENTS EXCEPT REBAR MUST HAVE GALVANIC PROTECTION WHEN IN CONTACT BETWEEN DISSIMILAR METALS.

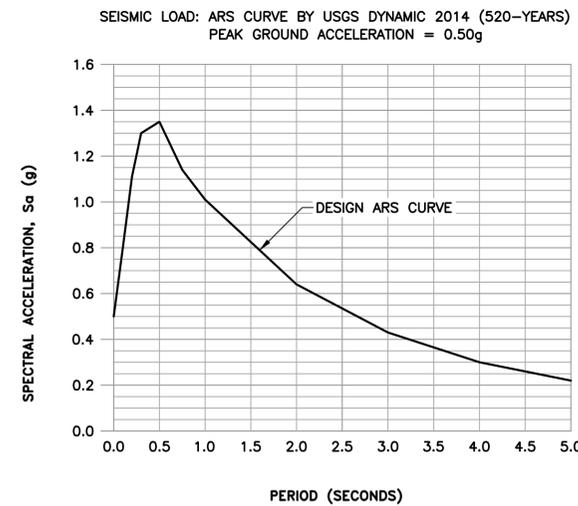
CONCRETE NOTES:

- ALL CONCRETE MATERIAL, PLACEMENT AND WORKMANSHIP MUST BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
- ALL EXPOSED CONCRETE EDGES AND CORNERS MUST BE CHAMFERED WITH A 3/4 INCH, 45 DEGREE CHAMFER, UNLESS NOTED OTHERWISE.

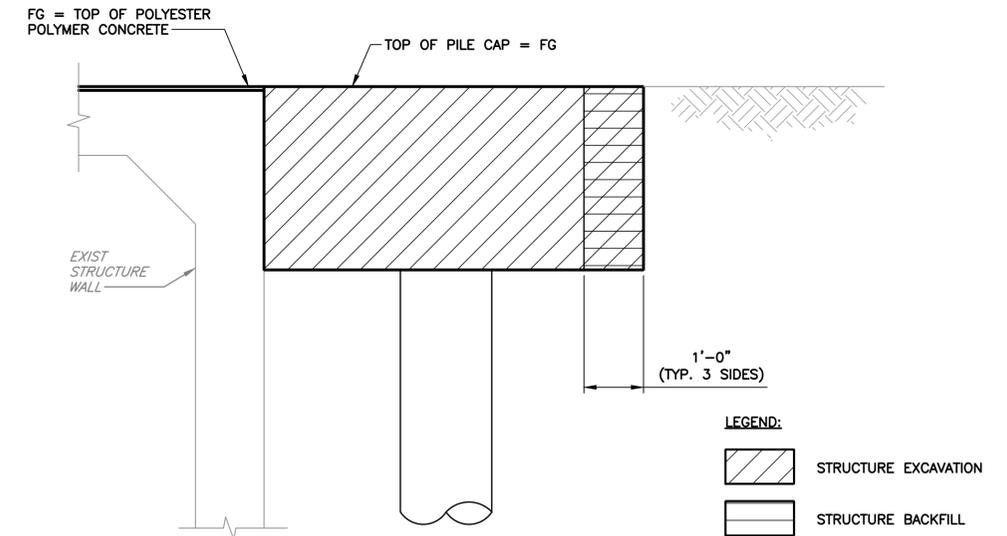
CONCRETE REINFORCING:

- FABRICATION OF REINFORCING STEEL MUST BE IN ACCORDANCE WITH ACI 301, ACI 318 AND CRSI (CONCRETE REINFORCING STEEL INSTITUTE) MANUAL OF STANDARD PRACTICE. IN THE EVENT OF CONFLICTS BETWEEN SPECIFICATIONS, THE MORE RESTRICTIVE STANDARD MUST GOVERN.
- REINFORCING STEEL IS TO BE BLOCKED AND TIED FOR PROPER PLACEMENT AND SECURELY WIRED AGAINST DISPLACEMENT IN ACCORDANCE WITH CRSI. TACK WELD OF REINFORCEMENT IS PROHIBITED.
- ALL HANDLING AND FIELD INSTALLATION OF EPOXY COATED REINFORCEMENT MUST CONFORM TO ASTM D3963.
- UNLESS NOTED OTHERWISE, THE FOLLOWING CONCRETE COVER MUST BE PROVIDED FOR PRIMARY REINFORCEMENT, STIRRUPS, AND TIES:

	COVER (INCHES)
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
CONCRETE EXPOSED TO WATER OR WEATHER, PILE CAP	2 1/2
WALLS & TOP OF INVERT SLAB	3 1/2
CURB	1
FOR ALL OTHER CASES	2 1/2
- WRITTEN SPACING AND LOCATION OF REINFORCING MUST TAKE PRECEDENCE OVER DEPICTED SPACING AND LOCATION.



SITE SPECIFIC ARS CURVE
SCALE: NTS



LIMITS OF PAYMENT FOR STRUCTURE EXCAVATION AND BACKFILL
SCALE: NTS

2

1

DOCUMENT NUMBER: PAA_LP-S-1039-85300

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REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
				1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

865 The Alameda
San Jose, California 95126
408-296-5515

BCA

DATE: 5/05/2025

DESIGN: G. TOLAN

DRAWN: R. MOE

CHECKED: C. VASQUEZ

ENGINEER: DATE

ENGINEERING CERTIFICATION

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

Mo Hussain
05/05/2025

PROJECT ENGINEER ACCEPTED BY DISTRICT DATE

PROJECT NAME AND SHEET DESCRIPTION:

PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT

GENERAL STRUCTURAL NOTES

SCALE AS SHOWN

VERIFY SCALES

0 1"

BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 10394001

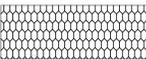
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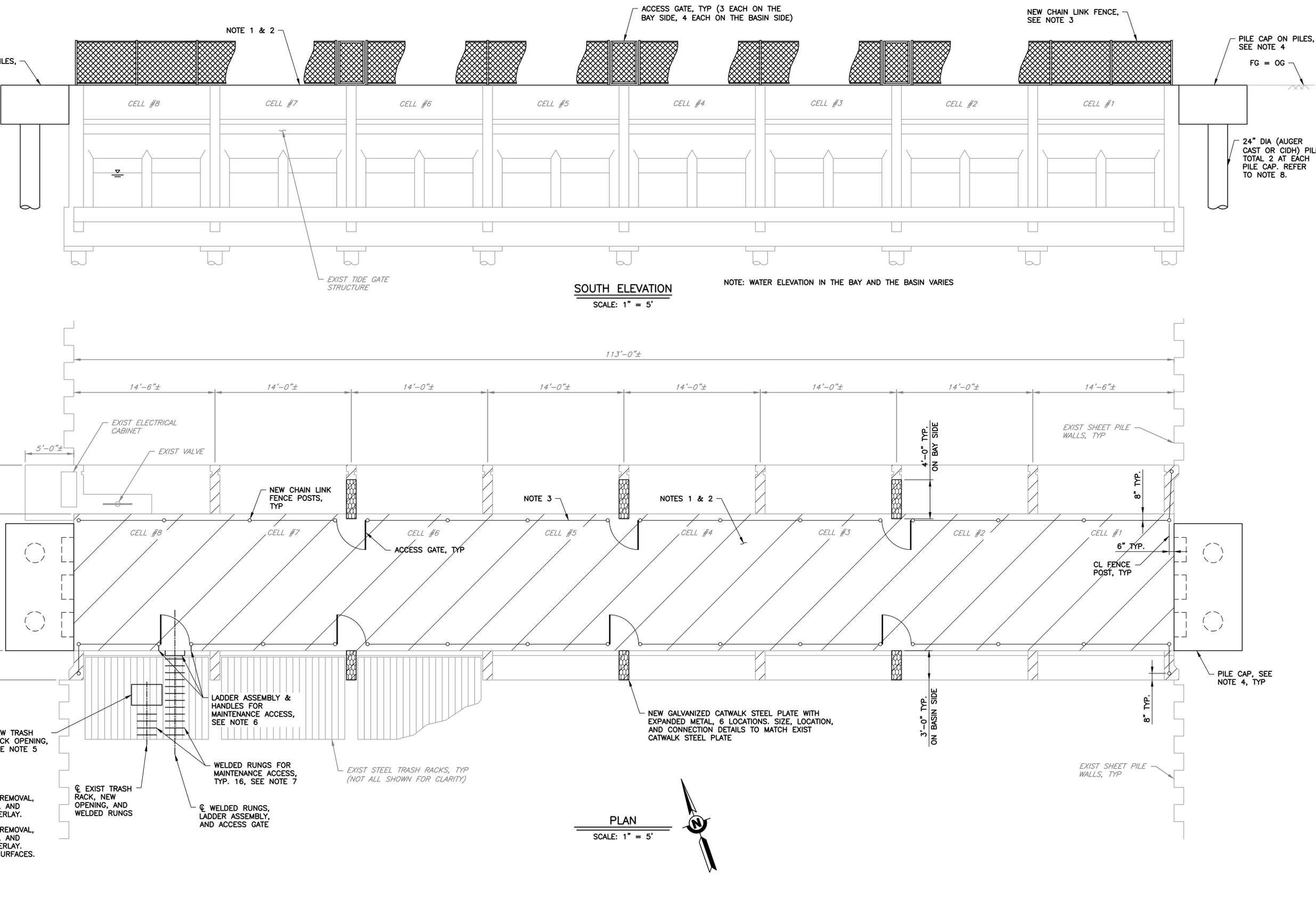
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 DOCUMENT NUMBER: PAA_LP-S-1039-85301

- NOTES:**
- REMOVE UNSOUND CONCRETE ON DECK AND REPAIR PER DETAILS ON SHEET S-10. SEE SHEET S-09 FOR LOCATIONS.
 - PLACE 1" MIN. DEPTH POLYESTER POLYMER CONCRETE (PPC) OVERLAY.
 - CONSTRUCT NEW 48" TALL CHAIN LINK RAILING. SEE SHEET S-08 FOR DETAILS. PROVIDE A GATE AT EACH CATWALK STEEL PLATE LOCATION (6 EACH) AND AT MAINTENANCE ACCESS FOR CELL #8 (1 EACH).
 - TOP OF PILE CAP ELEVATION SHALL MATCH PPC OVERLAYED TOP OF ADJACENT DECK AND SHALL BE LEVEL. SEE SHEET S-05 FOR PILE CAP DETAILS.
 - SEE SHEET S-06 FOR TRASH RACK MODIFICATION DETAILS.
 - INSTALL 24" WIDE GALVANIZED STEEL LADDER ASSEMBLY ON THE SIDE OF CONCRETE DECK. INSTALL HANDLES ON THE NEW GATE POSTS. SEE SHEET S-07 FOR DETAILS.
 - WELD WIDE GALVANIZED RUNGS ON EXISTING TRASH RACK @ 12" SPACING TO PROVIDE MAINTENANCE PATHWAY TO THE FLOOD BASIN. SEE SHEET S-06 FOR DETAILS.
 - CONTRACTOR IS ALLOWED TO USE EITHER AUGER CAST CONCRETE (ACH) OR CAST-IN-DRILLED-HOLE (CIDH) FOR INSTALLING CONCRETE PILES. REFER TO SPECIFICATION SECTIONS 31.02 AND 31.03.

LEGEND:

	LIMITS OF UNSOUND CONCRETE, REMOVAL, PREPARE BRIDGE DECK SURFACE, AND PLACE POLYESTER CONCRETE OVERLAY.
	LIMITS OF UNSOUND CONCRETE, REMOVAL, PREPARE BRIDGE DECK SURFACE, AND PLACE POLYESTER CONCRETE OVERLAY. THIS APPLIES TO ALL CATWALK SURFACES.
	NEW CATWALK STEEL PLATE.



SOUTH ELEVATION
SCALE: 1" = 5'

PLAN
SCALE: 1" = 5'

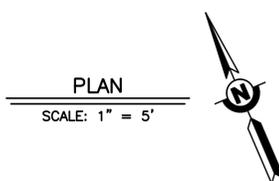
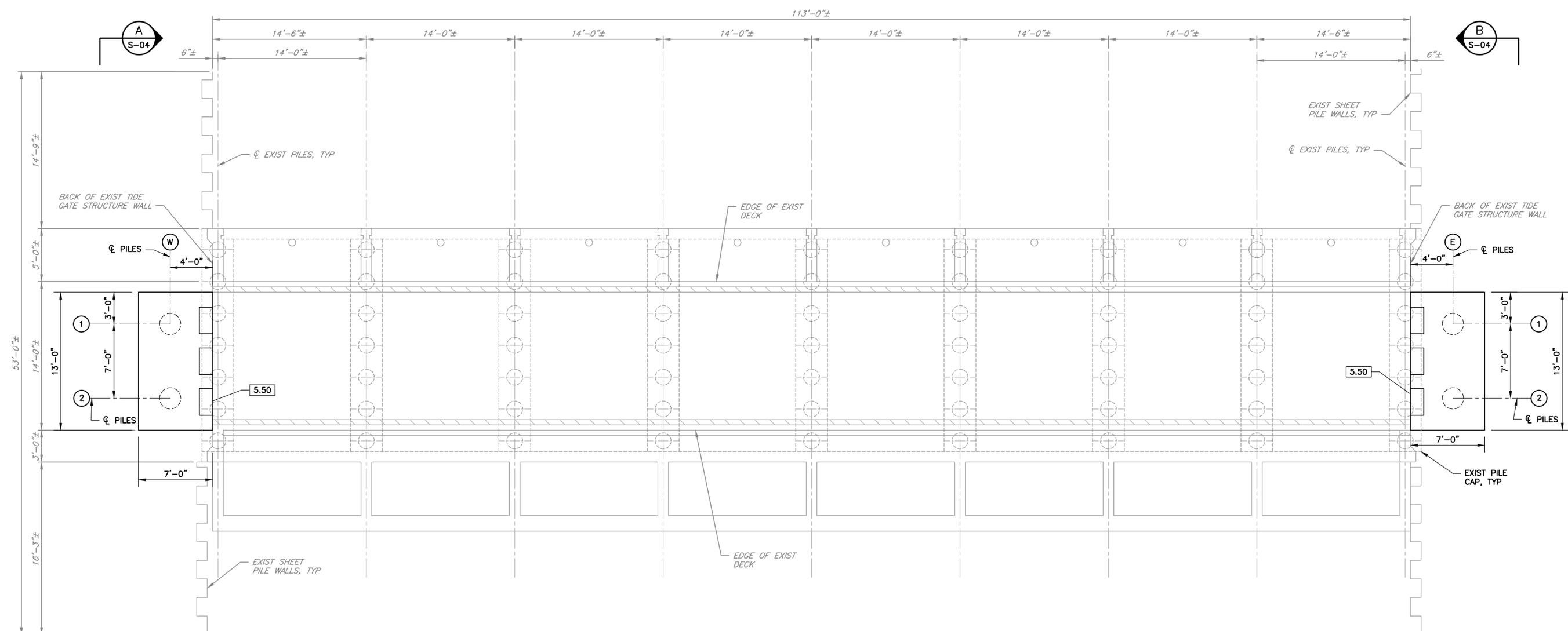
REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES	BIGGS CARDOSA ASSOCIATES INC STRUCTURAL ENGINEERS 865 The Alameda San Jose, California 95126 408-296-5515 	DATE: 5/05/2025 DESIGN: G. TOLAN DRAWN: R. MOE CHECKED: C. VASQUEZ ENGINEER: DATE:	ENGINEERING CERTIFICATION  No. 2639 Exp. 12/31/26 STATE OF CALIFORNIA STRUCTURAL ENGINEER	SANTA CLARA VALLEY WATER DISTRICT  Mo Hassan PROJECT ENGINEER 05/05/2025 ACCEPTED BY DISTRICT DATE:	PROJECT NAME AND SHEET DESCRIPTION: PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT STRUCTURAL GENERAL PLAN	SCALE AS SHOWN VERIFY SCALES  BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER: 10394001 SHEET CODE: S-02 SHEET NUMBER: 16
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 DOCUMENT NUMBER: PAA_LP-S-1039-85302

PILE DATA TABLE						
LOCATION	PILE TYPE	CUT-OFF ELEV (FT)	NOMINAL RESISTANCE (KIPS)		DESIGN TIP ELEV (FT)	SPECIFIED TIP ELEV (FT)
			COMPRESSION	TENSION		
PILE ROW (W) & (E)	24" DIA CONCRETE PILE	5.8	65	N/A	-26.0 (a) -26.0 (b) N/A (c) -44.0 (d)	-44.0

NOTES:

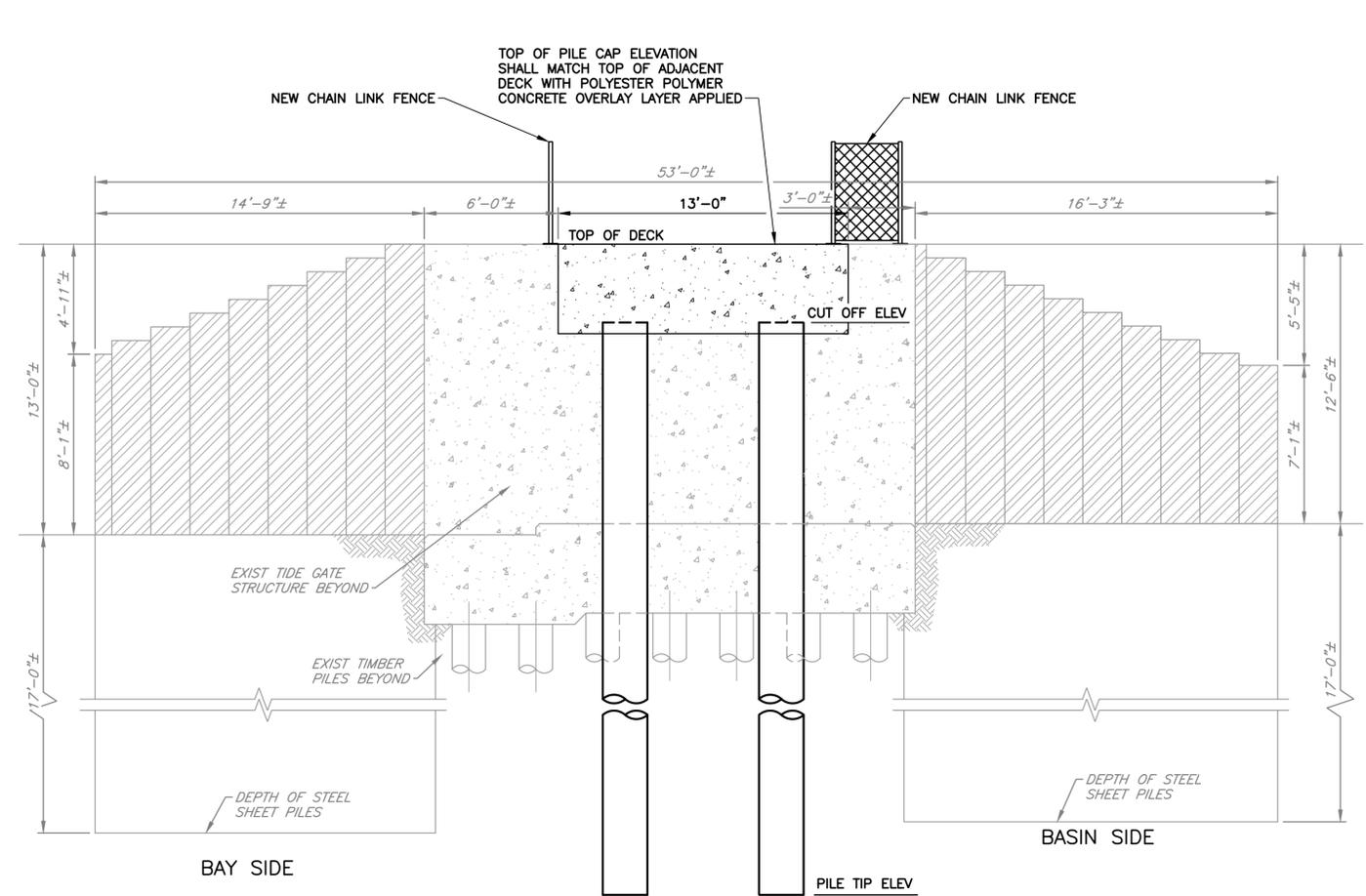
- ELEVATIONS SHOWN ARE BASED ON NAVD88.
- DESIGN TIP ELEVATIONS ARE CONTROLLED BY: (a) COMPRESSION (STRENGTH), (b) COMPRESSION (EXTREME), (c) TENSION (EXTREME), (d) LATERAL LOAD.
- THE PILE SPECIFIED TIP ELEVATIONS MUST NOT BE RAISED WITHOUT FURTHER EVALUATION BY HALEY & ALDRICH.
- SPECIFIED TIP ELEVATION IS SELECTED TO ENSURE EMBEDMENT TO COMPETENT SOIL.



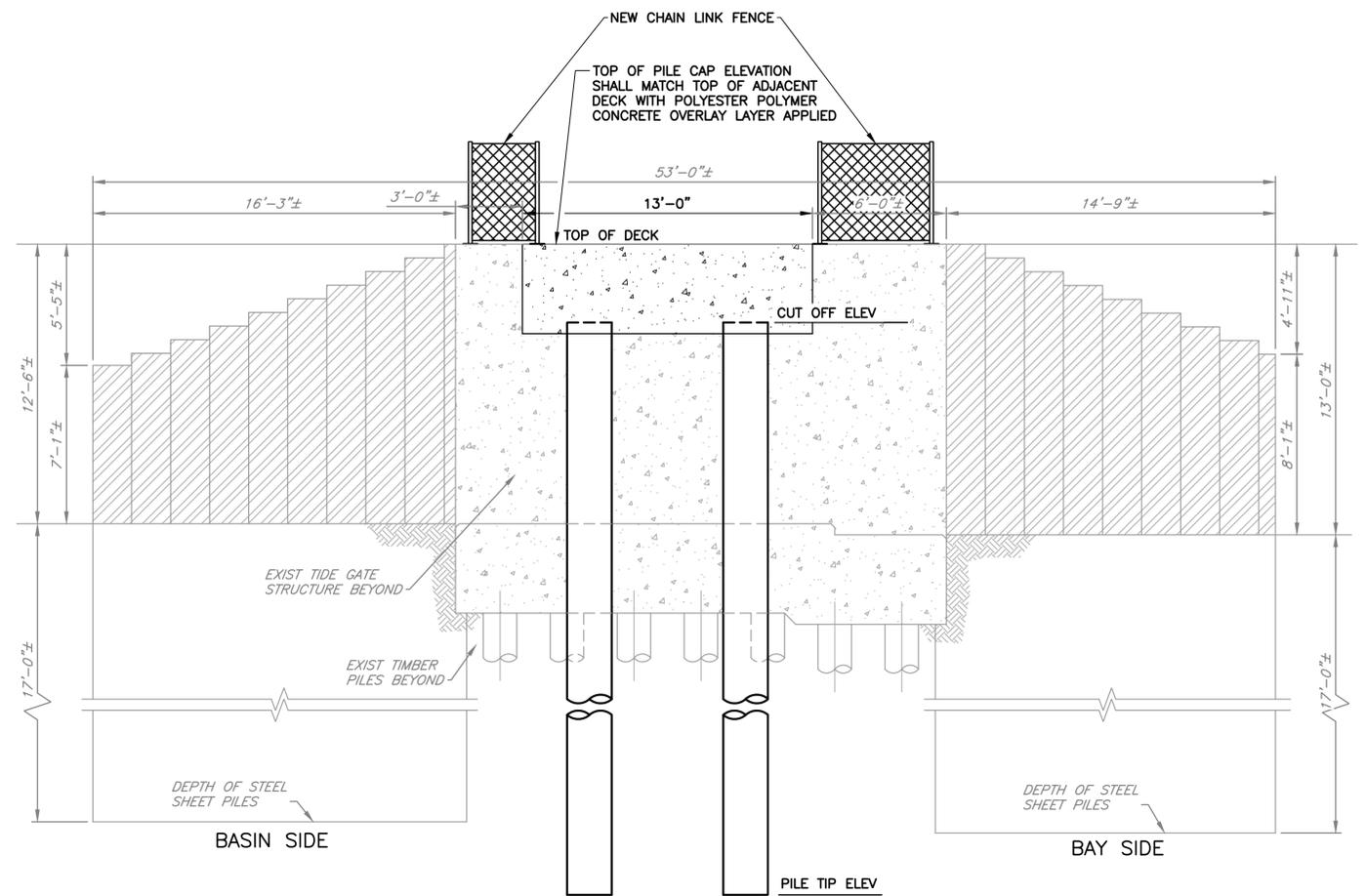
LEGEND:
 XX.XX INDICATES BOTTOM OF PILE CAP ELEVATION

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES	BIGGS CARDOSA ASSOCIATES INC STRUCTURAL ENGINEERS 865 The Alameda San Jose, California 95126 408-296-5515 	DATE 5/05/2025 DESIGN G. TOLAN DRAWN R. MOE CHECKED C. VASQUEZ ENGINEER	ENGINEERING CERTIFICATION 	SANTA CLARA VALLEY WATER DISTRICT Mo Hassan PROJECT ENGINEER 05/05/2025 ACCEPTED BY DISTRICT	PROJECT NAME AND SHEET DESCRIPTION: PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT FOUNDATION PLAN	SCALE AS SHOWN VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 10394001 SHEET CODE: S-03 SHEET NUMBER: 17
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SECTION A WEST ELEVATION
 S-04 SCALE: 1/4" = 1'-0"



SECTION B EAST ELEVATION
 S-04 SCALE: 1/4" = 1'-0"

DOCUMENT NUMBER: PAA_LP-S-1039-85303

REV	DESCRIPTION	DATE	APPR.

REFERENCE INFORMATION AND NOTES
 1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

BIGGS CARDOSA ASSOCIATES INC
 STRUCTURAL ENGINEERS
 865 The Alameda
 San Jose, California 95126
 408-296-5515

BCA

DATE: 5/05/2025
 DESIGN: G. TOLAN
 DRAWN: R. MOE
 CHECKED: C. VASQUEZ
 ENGINEER

ENGINEERING CERTIFICATION

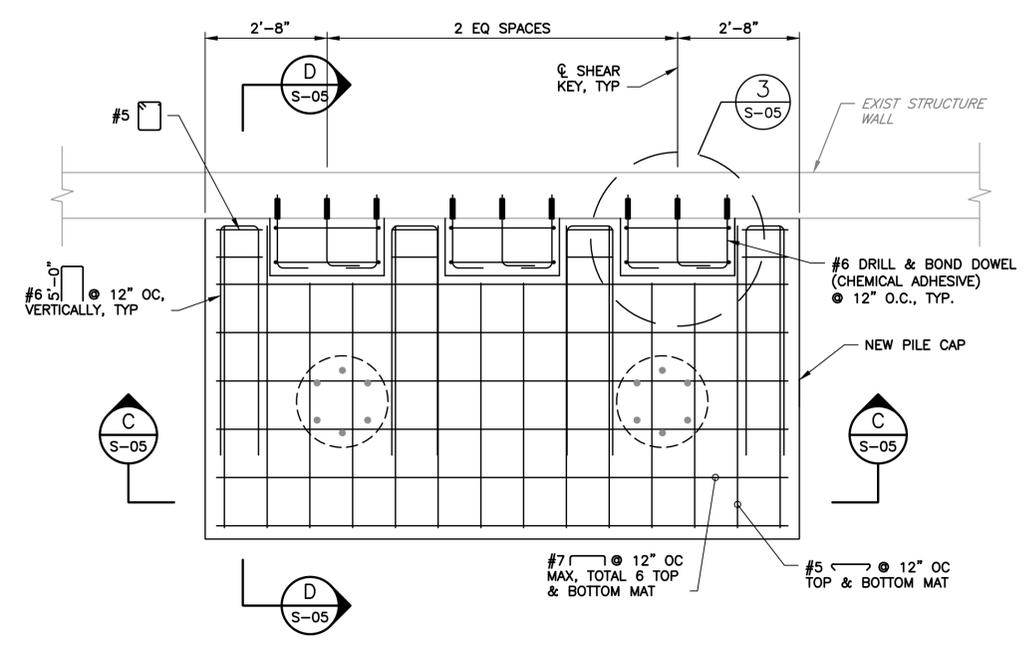
SANTA CLARA VALLEY WATER DISTRICT

Mo Hussain
 PROJECT ENGINEER
 05/05/2025
 ACCEPTED BY DISTRICT

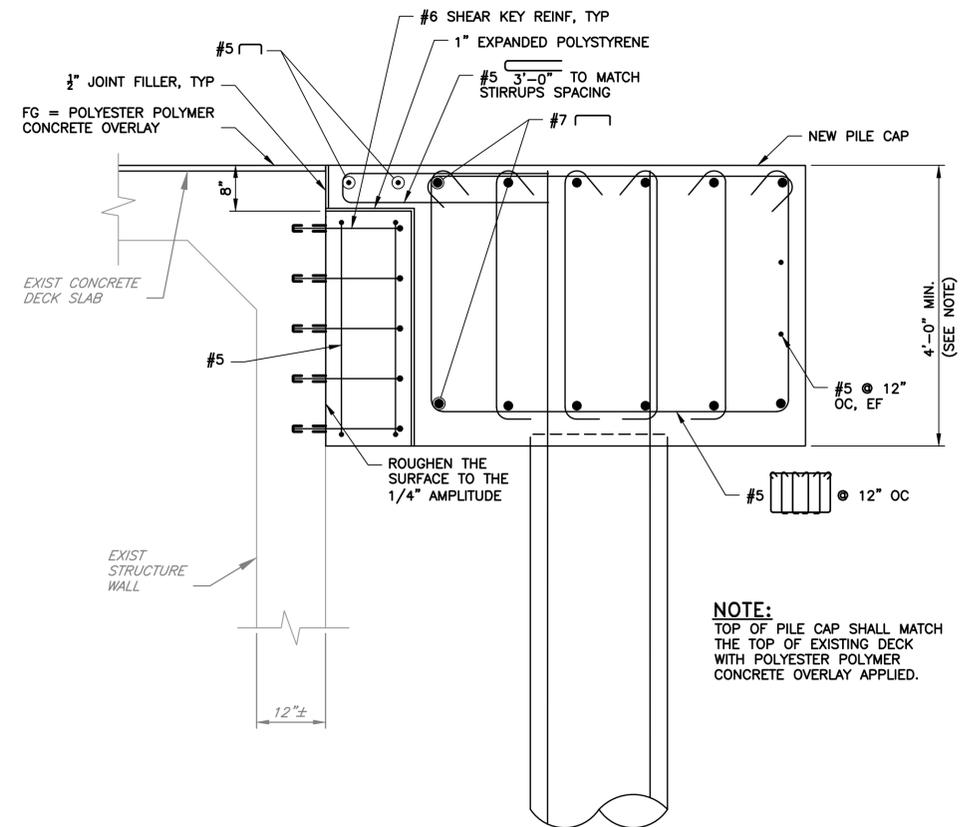
PROJECT NAME AND SHEET DESCRIPTION:
PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT
 PILE CAP AND PILE DETAILS

SCALE AS SHOWN	PROJECT NUMBER 10394001
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-04
	SHEET NUMBER: 18

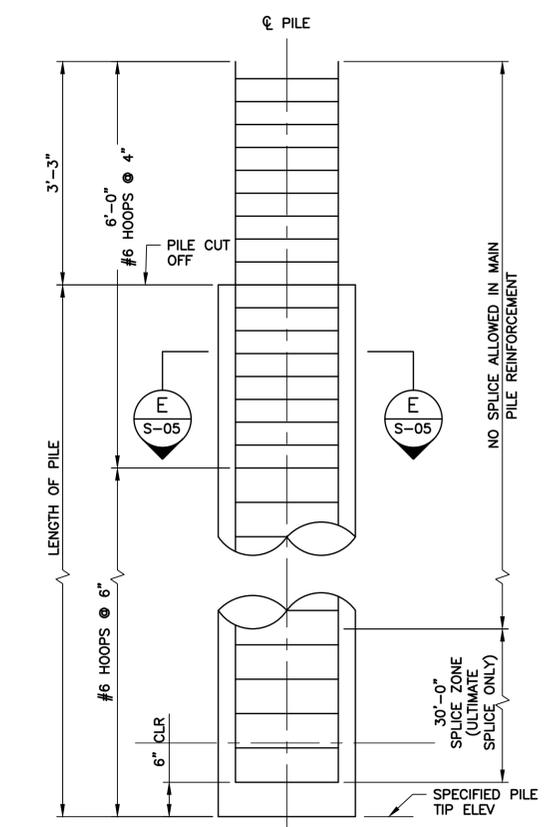
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 DETAIL SHEETS S-05.dwg
 DOCUMENT NUMBER: PAA_LP-S-1039-85304



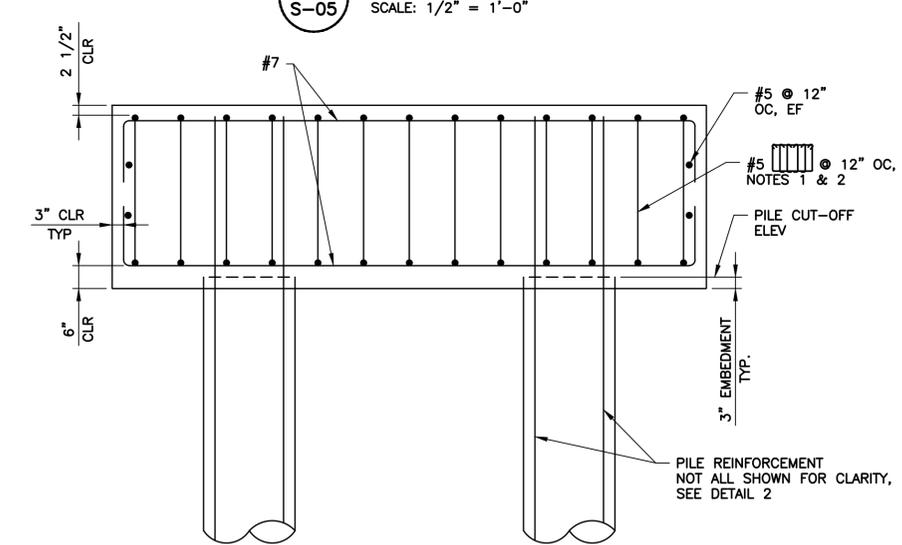
DETAIL 1 PILE CAP REINFORCEMENT PLAN
 SCALE: 1/2" = 1'-0"



SECTION D PILE CAP REINFORCEMENT
 SCALE: 3/4" = 1'-0"

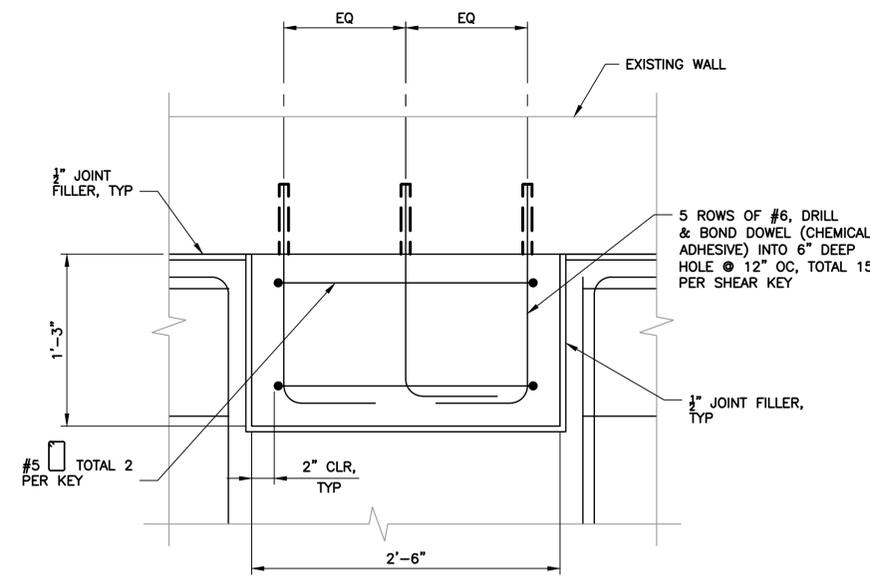


DETAIL 2 24-IN CIDH OR ACP CONCRETE PILE
 SCALE: 3/4" = 1'-0"

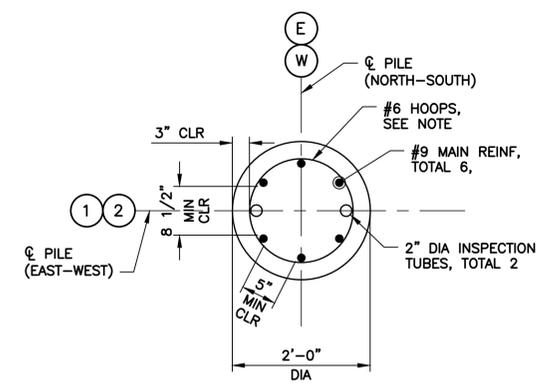


SECTION C PILE CAP REINFORCEMENT
 SCALE: 1/2" = 1'-0"

NOTES:
 1. ALL STIRRUPS MUST BE HOOKED AROUND BOTH LONGITUDINAL AND TRANSVERSE BARS.
 2. OMIT #5 STIRRUPS WITHIN LONGITUDINAL PILE REINFORCEMENT CORE.



DETAIL 3 SHEAR KEY
 SCALE: 1 1/2" = 1'-0"



SECTION E 24-IN CIDH OR ACP CONCRETE PILE
 SCALE: 3/4" = 1'-0"

NOTE:
 1. ALL PILE HOOPS MUST UTILIZE ULTIMATE BUTT SPLICES.
 2. AT CONTRACTOR'S OPTION, REPLACE CIDH CONCRETE PILE WITH AUGER CAST PILE CONFORMING TO ALL DETAILS OF THE CIDH PILE.

REV	DESCRIPTION	DATE	APPR.

REFERENCE INFORMATION AND NOTES
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BIGGS CARDOSA ASSOCIATES INC
 STRUCTURAL ENGINEERS
 865 The Alameda
 San Jose, California 95126
 408-296-5515

BCA

DATE: 5/05/2025
 DESIGN: G. TOLAN
 DRAWN: R. MOE
 CHECKED: C. VASQUEZ
 ENGINEER

ENGINEERING CERTIFICATION
 SANTA CLARA VALLEY WATER DISTRICT

Valley Water

Mo Hussain
 PROJECT ENGINEER
 05/05/2025
 ACCEPTED BY DISTRICT

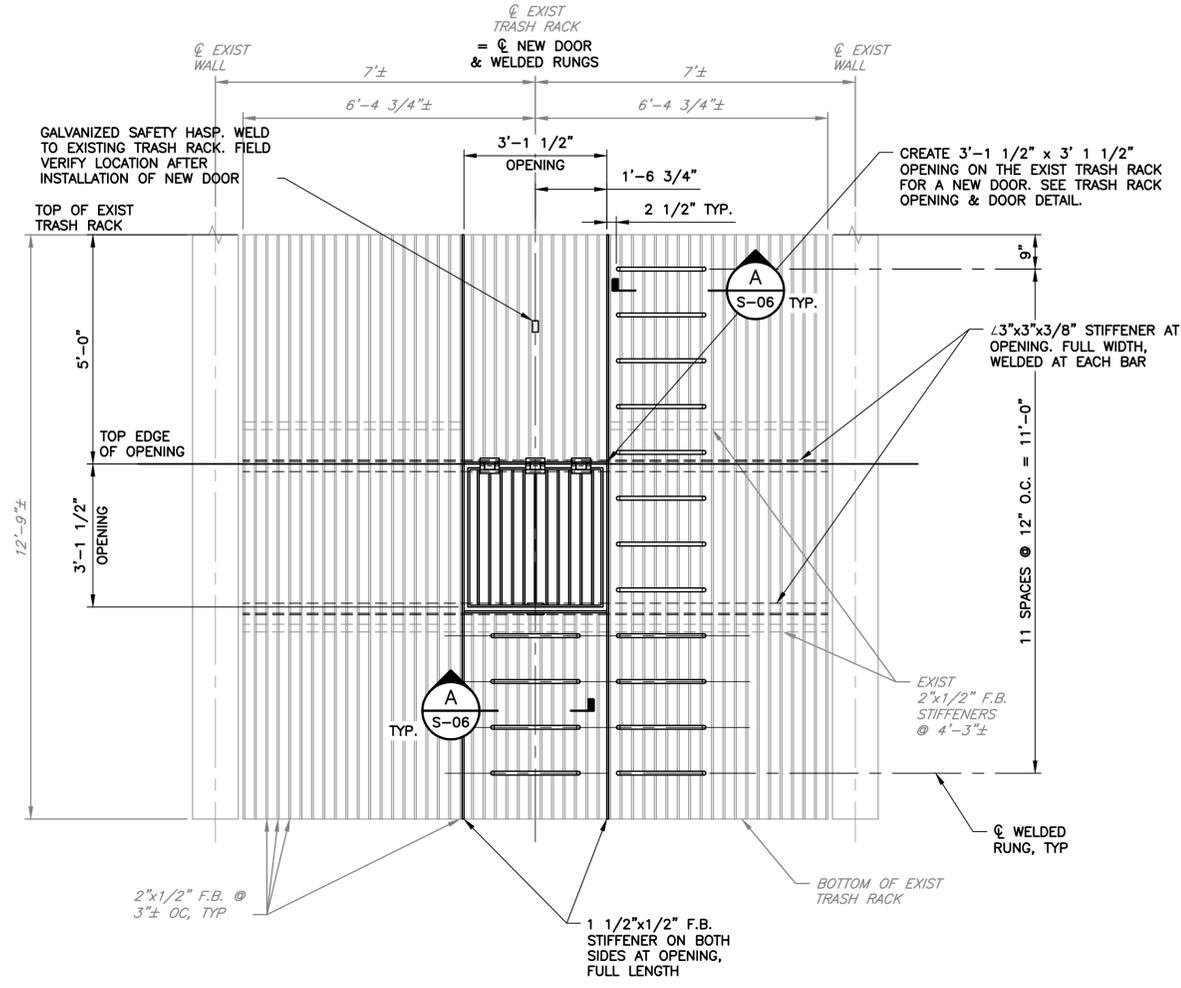
PROJECT NAME AND SHEET DESCRIPTION:
PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT
 PILE CAP SECTIONS AND DETAILS

SCALE: AS SHOWN
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 BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

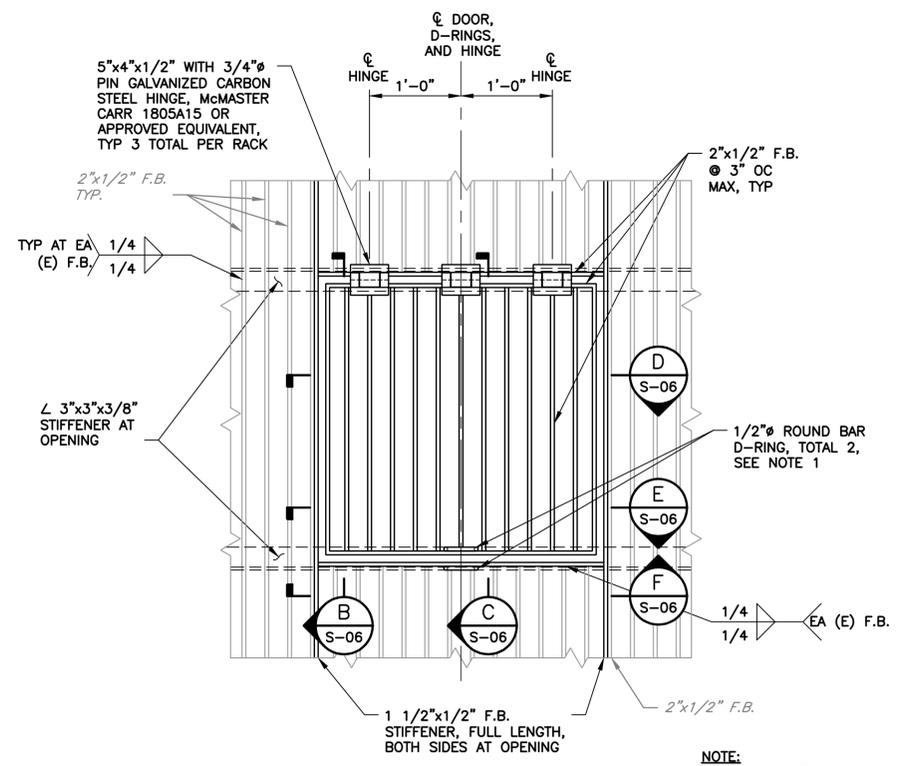
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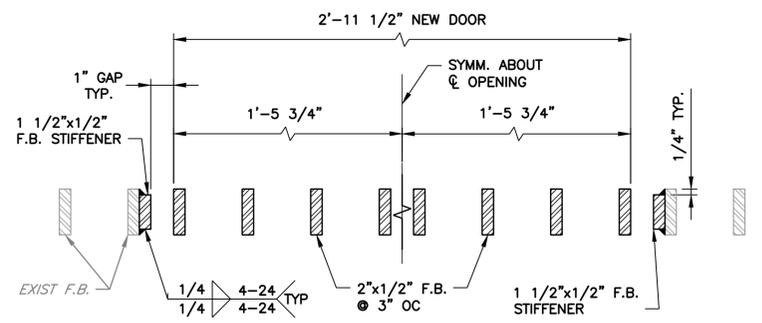
NOTE:
 THIS VIEW SHOWS TRASH RACK LAYING FLAT



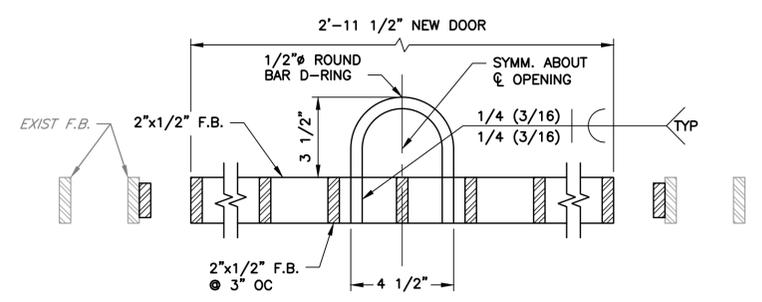
TRASH RACK OPENING FOR CELL #8
 SCALE: 1" = 2'



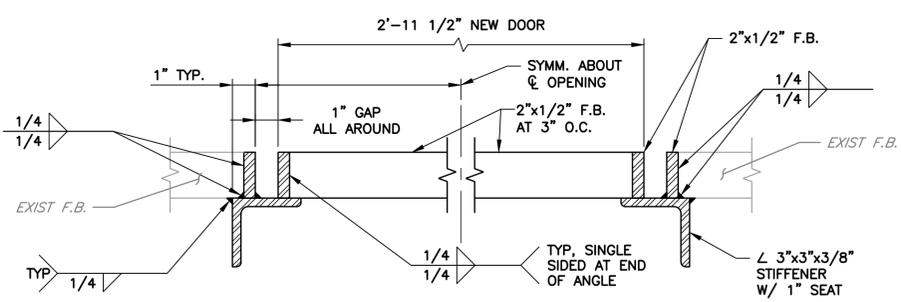
TRASH RACK OPENING & DOOR DETAIL
 SCALE: 1" = 1'



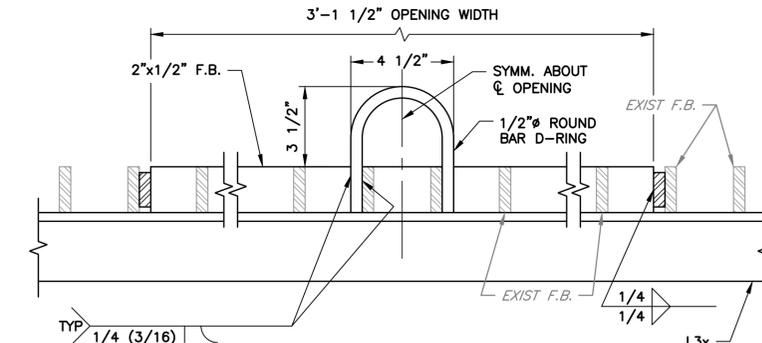
SECTION D NEW DOOR DETAILS
 S-06 SCALE: 3" = 1'



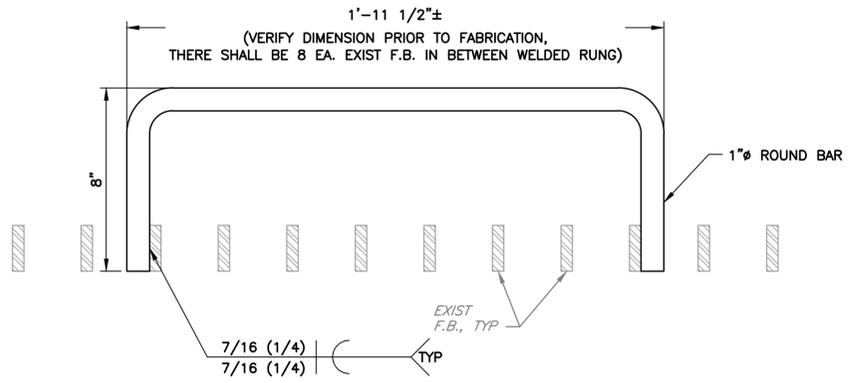
SECTION E D-RING DETAILS
 S-06 SCALE: 3" = 1'



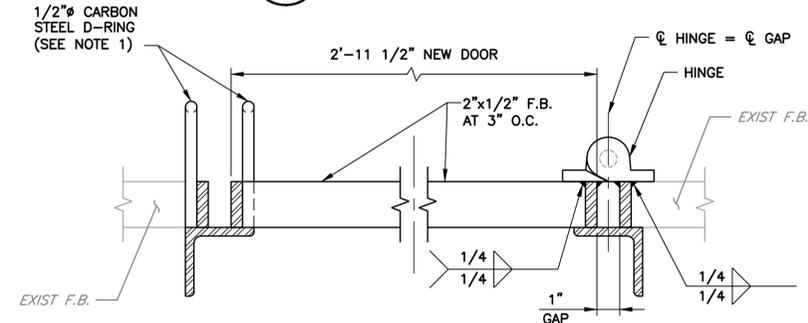
SECTION B NEW DOOR & STIFFENER DETAILS
 S-06 SCALE: 3" = 1'



SECTION F D-RING DETAILS
 S-06 SCALE: 3" = 1'



SECTION A TYP. WELDED RUNG DETAIL
 S-06 SCALE: 3" = 1'



SECTION C HINGE & D-RING DETAILS
 S-06 SCALE: 3" = 1'

NOTE:
 1. CONTRACTOR TO PROVIDE CHAIN AND PADLOCK TO SECURE NEW DOOR. CHAIN SHALL BE 18" LONG, 1 1/4" x 7/16" x 1/4", GALVANIZED, McMASTER CARR 3592T45 OR APPROVED EQUIVALENT.

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
				1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

BIGGS CARDOSA ASSOCIATES INC
 STRUCTURAL ENGINEERS
 865 The Alameda
 San Jose, California 95126
 408-296-5515

DATE: 5/05/2025
 DESIGN: G. TOLAN
 DRAWN: R. MOE
 CHECKED: C. VASQUEZ
 ENGINEER

ENGINEERING CERTIFICATION
 SANTA CLARA VALLEY WATER DISTRICT

 Mo Hussain
 PROJECT ENGINEER
 05/05/2025
 ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT
TRASH RACK MODIFICATION DETAILS

SCALE: AS SHOWN
 VERIFY SCALES

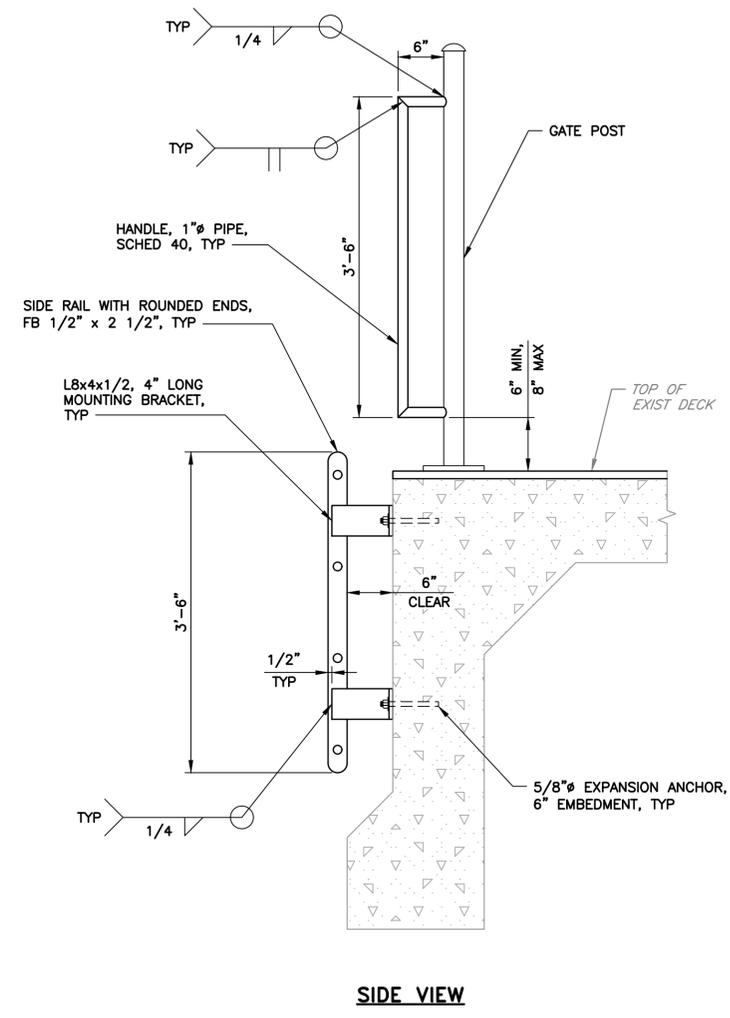
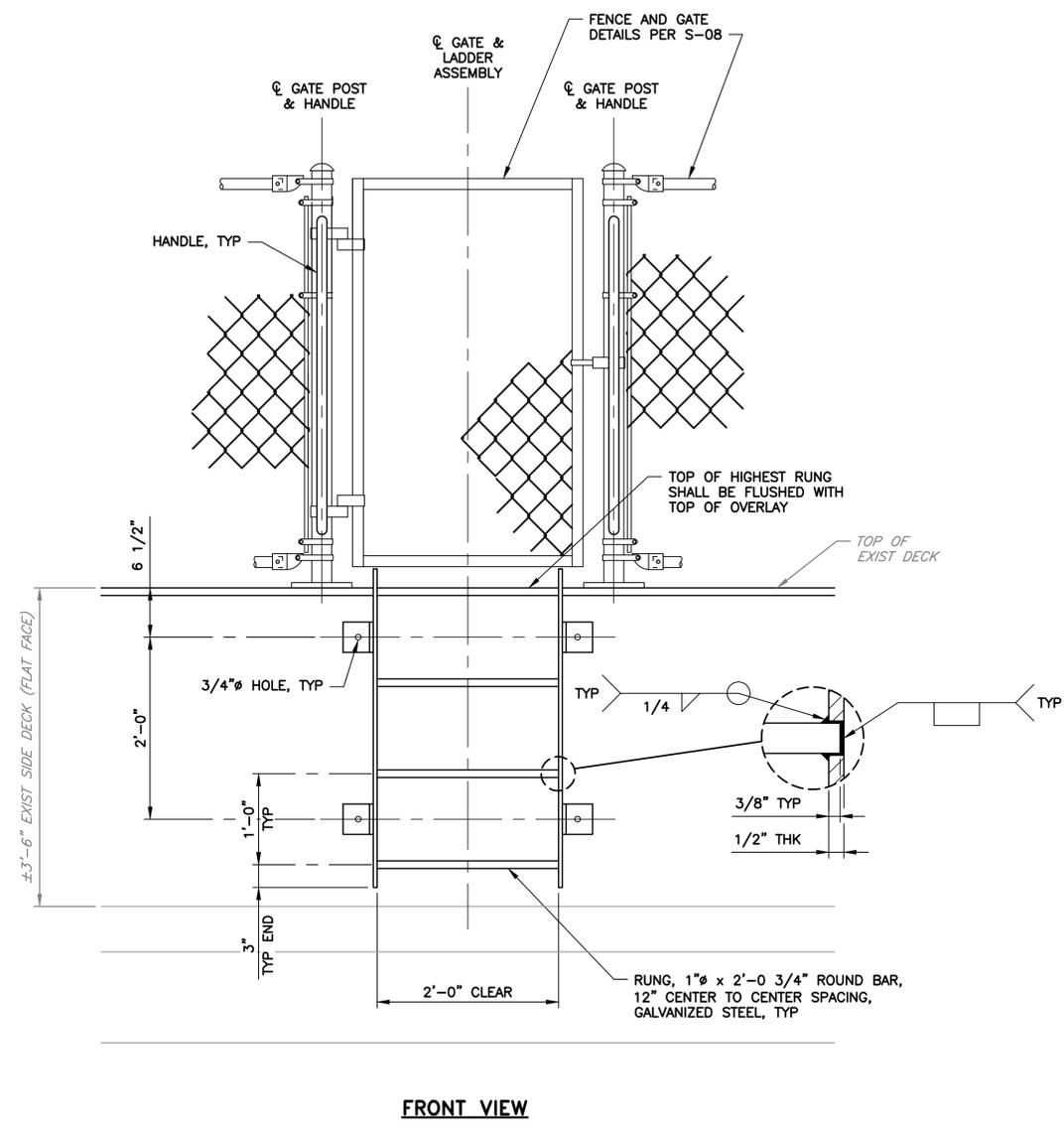
 BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
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 SHEET CODE: S-06
 SHEET NUMBER: 20

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 SHEETS\S-07.dwg

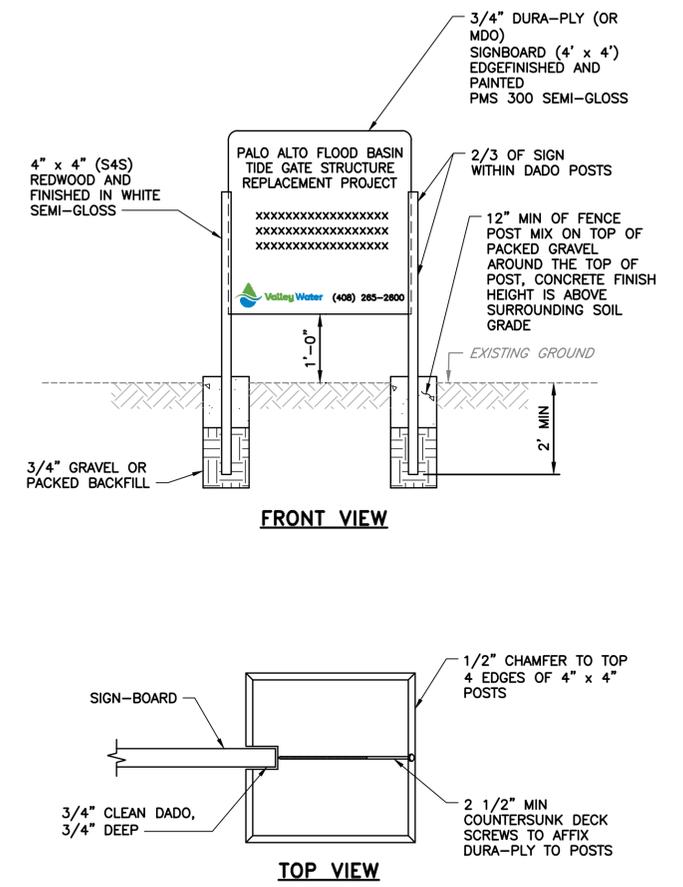
DOCUMENT NUMBER: PAA_LP-S-1039-85306

LADDER ASSEMBLY NOTES:

1. SEE S-02 AND S-06 FOR LOCATIONS.
2. LADDER ASSEMBLY SHALL BE HOT-DIPPED GALVANIZED.
3. HANDLES WELDED TO NEW GATE POSTS SHALL HAVE THE SAME FINISH AS THE GATE POSTS.



LADDER ASSEMBLY
SCALE: 1" = 1'



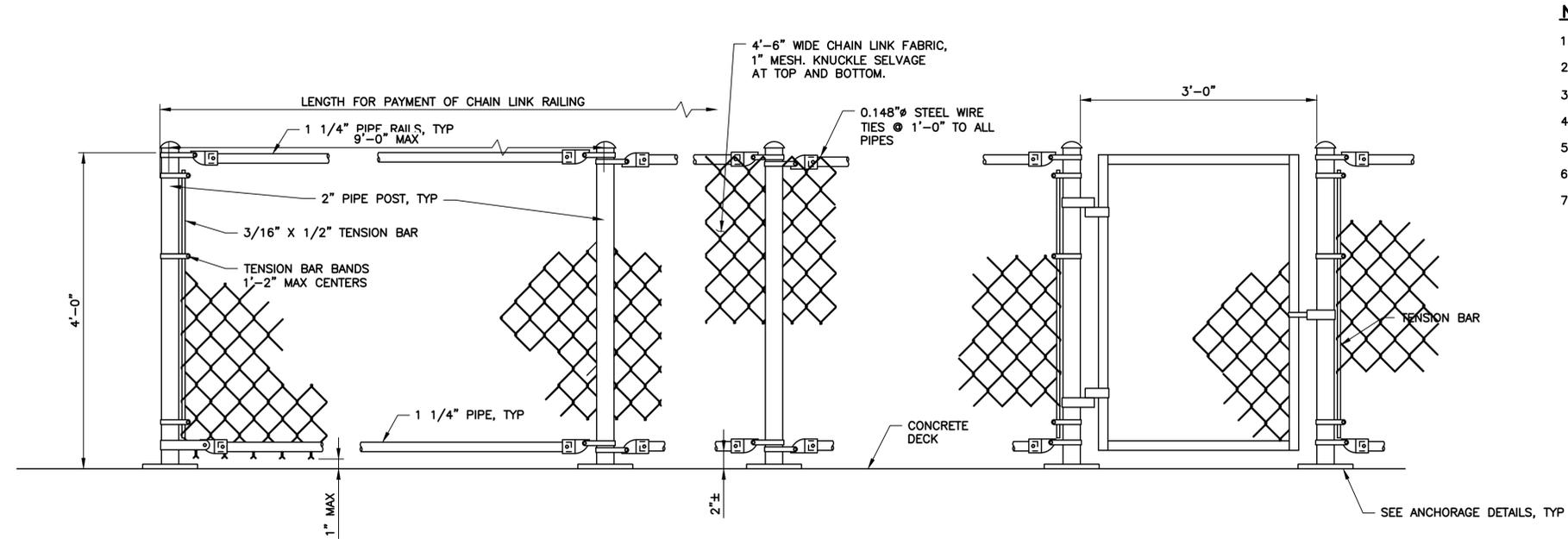
PROJECT SIGN NOTES:

1. FOR SIGN LOCATION, SEE SHEETS G-08 & G-09.
2. DISTRICT-FURNISHED PROJECT SIGN-BOARD TO BE INSTALLED BY THE CONTRACTOR.

PROJECT SIGN DETAILS
SCALE: N.T.S.

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES	BIGGS CARDOSA ASSOCIATES INC STRUCTURAL ENGINEERS 865 The Alameda San Jose, California 95126 408-296-5515 	DATE 5/05/2025 DESIGN G. TOLAN DRAWN R. MOE CHECKED C. VASQUEZ ENGINEER	ENGINEERING CERTIFICATION 	SANTA CLARA VALLEY WATER DISTRICT Mo Hassan PROJECT ENGINEER 05/05/2025 ACCEPTED BY DISTRICT	PROJECT NAME AND SHEET DESCRIPTION: PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT LADDER AND PROJECT SIGN DETAILS	SCALE AS SHOWN VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 10394001 SHEET CODE: S-07 SHEET NUMBER: 21
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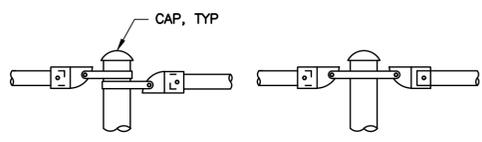
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 PROJECT NUMBER: PAA_LP-S-1039-85307
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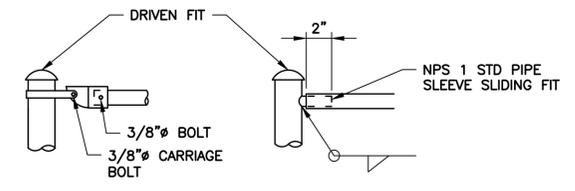
NOTES:

1. RAILING ASSEMBLY, INCLUDING CHAIN LINK FABRIC, TO BE HOT-DIPPED GALVANIZED.
2. FOUR GATES ON THE BASIN SIDE AND THREE GATES ON THE BAY SIDE ARE REQUIRED.
3. REUSE EXISTING CHAINS AND LOCKS FOR EACH GATE AND PROVIDE NEW CHAIN AND LOCKS FOR MAINTENANCE ACCESS GATE ON CELL #8.
4. PIPE SHALL BE STEEL SCHEDULE 40, TYP.
5. PEEN ALL BOLT THREADS.
6. CONTRACTOR SHALL SUBMIT CHAIN LINK RAILING AND FENCE SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION.
7. ALL EXISTING SIGNS SHALL BE REINSTALLED ON THE NEW CHAIN LINK RAILING.

END POST
SCALE: N.T.S.



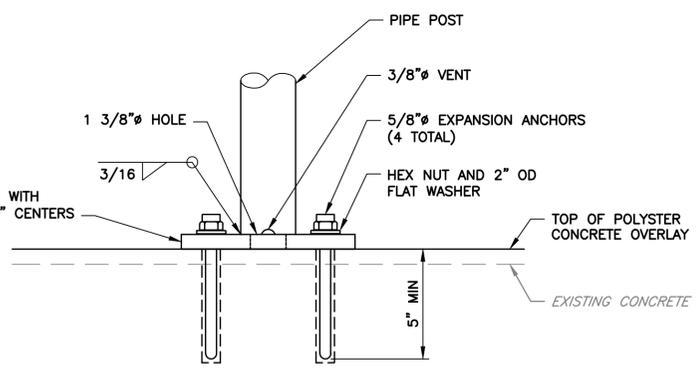
ALTERNATIVE DETAILS
SCALE: N.T.S.



TYPICAL CONNECTION DETAILS
SCALE: N.T.S.

INTERMEDIATE POSTS
SCALE: N.T.S.

GATE
SCALE: N.T.S.



ANCHORAGE DETAILS
SCALE: N.T.S.

REV	DESCRIPTION	DATE	APPR.

REFERENCE INFORMATION AND NOTES
 1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

BIGGS CARDOSA ASSOCIATES INC
 STRUCTURAL ENGINEERS
 865 The Alameda
 San Jose, California 95126
 408-296-5515

BCA

DATE: 5/05/2025
 DESIGN: G. TOLAN
 DRAWN: R. MOE
 CHECKED: C. VASQUEZ
 ENGINEER

ENGINEERING CERTIFICATION
 SANTA CLARA VALLEY WATER DISTRICT

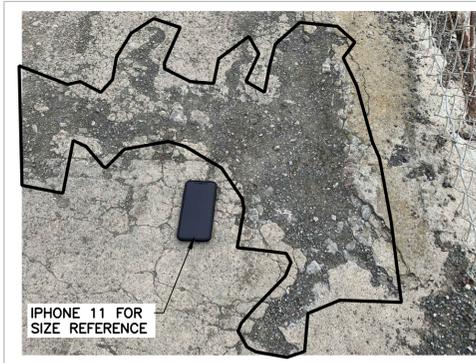
Valley Water

Mo Hussain
 PROJECT ENGINEER
 05/05/2025
 ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT
FENCE DETAILS

SCALE AS SHOWN	PROJECT NUMBER 10394001
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-08
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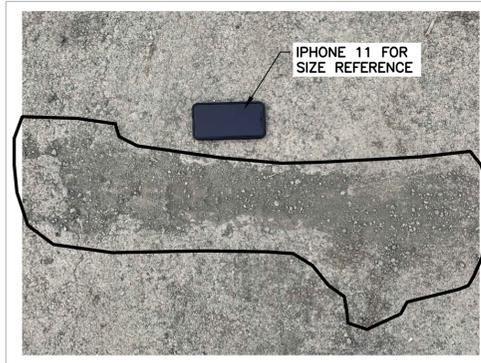
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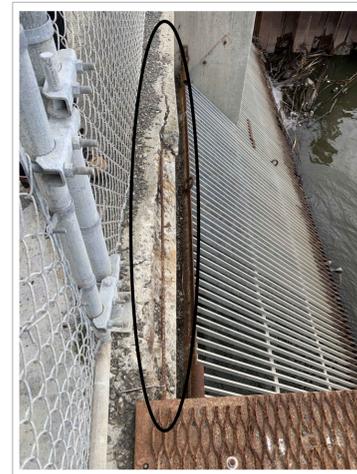
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IMG_1949
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IMG_1950
SCALE: NTS



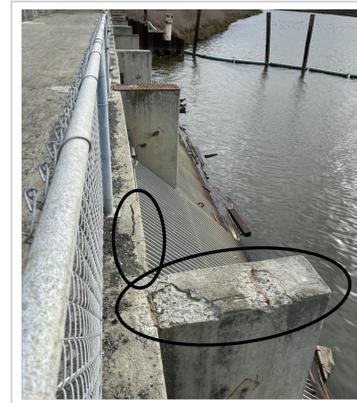
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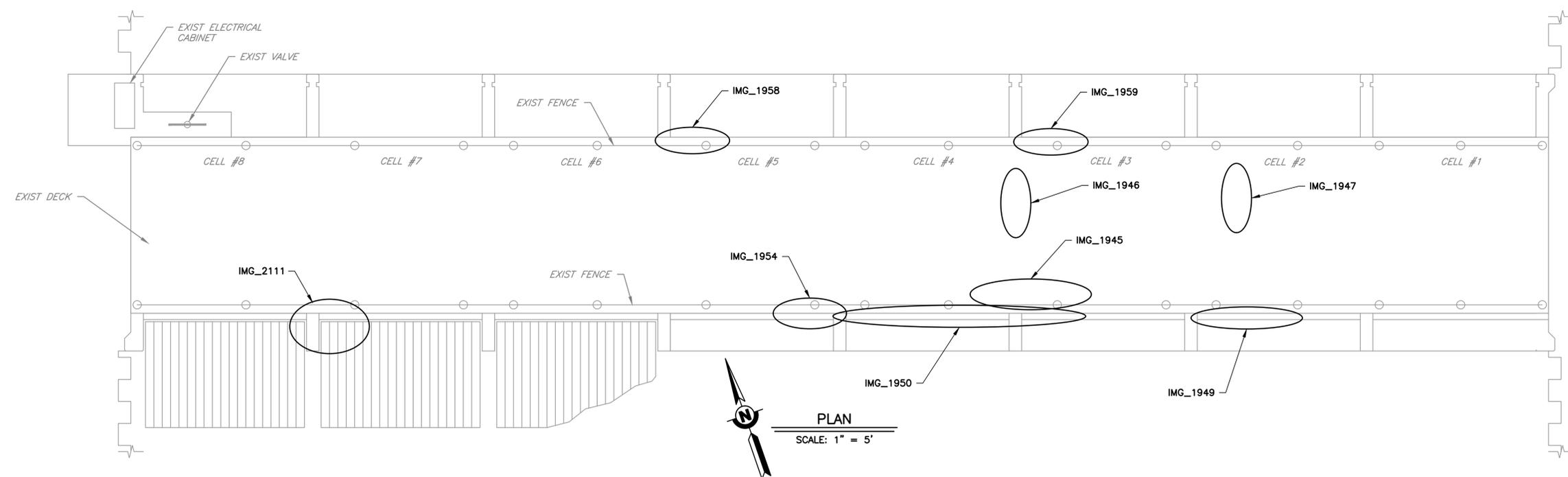


IMG_1959
SCALE: NTS



IMG_2111
SCALE: NTS

NOTES:
1. THE LOCATION OF CONCRETE SPALL SHOWN ON THE PLAN VIEW IS APPROXIMATE.



REV	DESCRIPTION	DATE	APPR.

REFERENCE INFORMATION AND NOTES
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
865 The Alameda
San Jose, California 95126
408-296-5515

BCA

DATE: 5/05/2025
DESIGN: G. TOLAN
DRAWN: R. MOE
CHECKED: C. VASQUEZ
ENGINEER



ENGINEERING CERTIFICATION
SANTA CLARA VALLEY WATER DISTRICT

Valley Water

Mo Hussain
05/05/2025
PROJECT ENGINEER ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT
CONCRETE REPAIR LOCATIONS

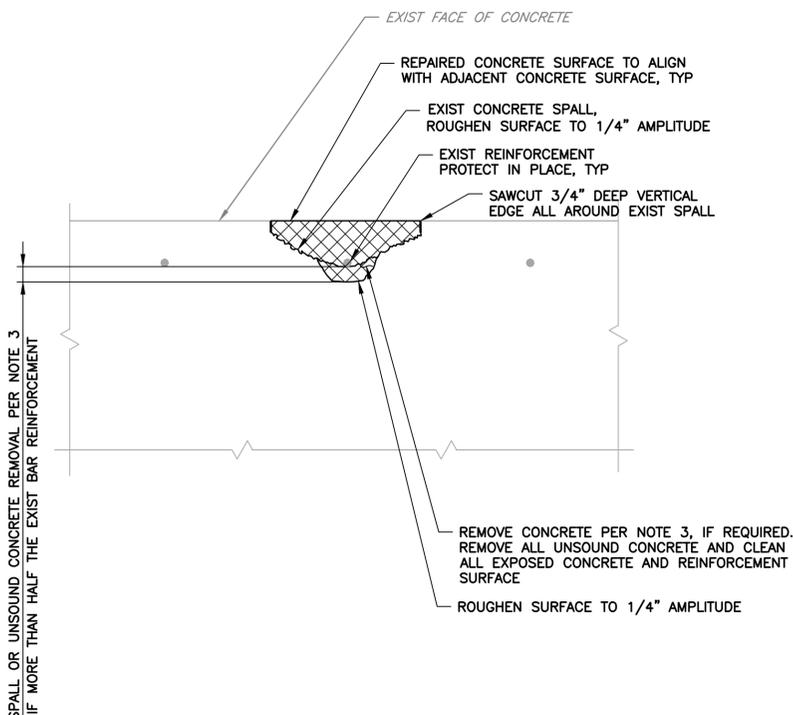
SCALE AS SHOWN	PROJECT NUMBER 10394001
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-09
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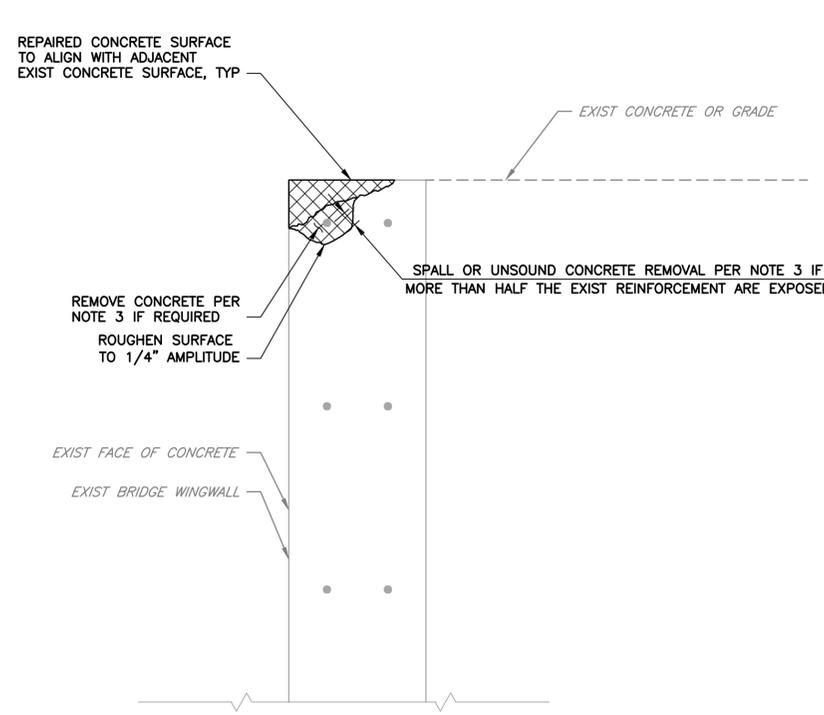
CONCRETE SPALL REPAIR NOTES:

- SEE SHEET S-09 FOR CONCRETE REPAIR LOCATIONS.
- ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", THE LATEST EDITION OF ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", AND CALTRANS 2024 STANDARD SPECIFICATIONS.
- REMOVE ALL UNSOUND CONCRETE FROM AREA OF REPAIR. NO UNSOUND OR DETERIORATED CONCRETE CAN REMAIN. IF REINFORCING STEEL IS EXPOSED DURING THE CONCRETE REMOVAL OPERATION, THEN REMOVE CONCRETE AROUND THE BAR TO PROVIDE A MINIMUM 3/4 INCH CLEAR SPACE BETWEEN THE REBAR AND SURROUNDING CONCRETE OR A CLEAR SPACE OF 1/4 INCH LARGER THAN THE MAXIMUM SIZE AGGREGATE IN THE REPAIR MATERIAL, WHICHEVER IS GREATER.
- AFTER REMOVING LARGE LOOSE AREAS OF UNSOUND CONCRETE, A 15 LBS. MAX CHIPPING HAMMER SHOULD BE USED TO REMOVE THE CONCRETE IN THE VICINITY OF THE REINFORCEMENT. DO NOT IMPACT THE REINFORCEMENT OR OTHERWISE CAUSE DAMAGE TO ITS BOND TO CONCRETE AT THE REPAIR SURFACE BOUNDARY.
- THE CONCRETE SURFACE SHOULD BE AT OPTIMUM MOISTURE CONDITIONING PER MANUFACTURER'S RECOMMENDATIONS.
- THE SURFACE SHALL BE FREE OF DUST, LAITANCE OR ANY OTHER FOREIGN MATERIALS; THE SURFACE TEMPERATURE SHOULD BE WITHIN SUITABLE LIMITS TO PERMIT PROPER WETTING BY THE REPAIR MATERIALS.
- CLEAN ALL EXPOSED CONCRETE AND REINFORCEMENT SURFACES BEFORE COVERING WITH BONDING AGENT. CONTRACTOR SHALL ALLOW THE ENGINEER OR ENGINEER'S REPRESENTATIVE TO INSPECT THE CLEANED EXPOSED REINFORCEMENT PRIOR TO PLACEMENT OF REPAIR CONCRETE TO DETERMINE WHETHER ADDITIONAL WORK PER NOTE 8 IS REQUIRED. PLACE REPAIR CONCRETE AS SOON AS POSSIBLE AFTER CONCRETE REMOVAL AND CLEANING IS COMPLETED AND AFTER APPROVAL FROM THE ENGINEER OR ENGINEER'S REPRESENTATIVE OR PROTECT THE CLEANED AND PREPARED CONCRETE AND REINFORCEMENT SURFACES FROM CONTAMINATION.
- IF THE CROSS-SECTION AREA OF THE EXPOSED REBAR HAS BEEN REDUCED BY CORROSION BY MORE THAN 20 PERCENT, THE ENGINEER OF RECORD SHALL MAKE THE DECISION ON THE ACTIONS TO BE TAKEN. THREE OPTIONS TO BE TAKEN INCLUDE:
 - DO NOTHING
 - ADD SUPPLEMENTAL REINFORCEMENT
 - REPLACE
 OPTIONS B AND C WILL BE PAID FOR AS ADDITIONAL WORK.
- THE EXPOSED REINFORCING MUST BE CLEANED TO REMOVE ANY LOOSE CORROSION (RUST).
- THE EDGES OF THE REPAIRED AREAS SHOULD BE SAWCUT ONLY AS SHOWN IN DETAILS ON THIS SHEET. FEATHER EDGES SHOULD BE AVOIDED AT ALL COSTS. THE CONFIGURATION OF THE AREA TO BE REPAIRED SHOULD BE KEPT AS SIMPLE AS POSSIBLE, AND PREFERABLY SQUARE.
- ALL REPAIRS MUST FOLLOW THE TECHNIQUE IN ICR'S GUIDE FOR SURFACE PREPARATION FOR THE REPAIR OF DETERIORATED CONCRETE RESULTING FROM REINFORCING STEEL CORROSION, GUIDELINE NO. 310.1R.
- CONTRACTOR TO SUBMIT PROPOSED RAPID SETTING CONCRETE PATCH MATERIAL FOR SCVWD REVIEW AND APPROVAL. ALL CONCRETE MIXES SHALL BE DESIGNED BY AN APPROVED LABORATORY AND SHALL BE STAMPED AND SIGNED BY A CIVIL ENGINEER LICENSED IN CALIFORNIA. RAPID SETTING CONCRETE PATCH MATERIAL FOR SPALL REPAIR SHALL BE PREPARED WITH TYPE II/V PORTLAND CEMENT CONFORMING TO ASTM C150 AND HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AND A MAX WATER CEMENT RATIO, W/C, AS FOLLOWS UNO:

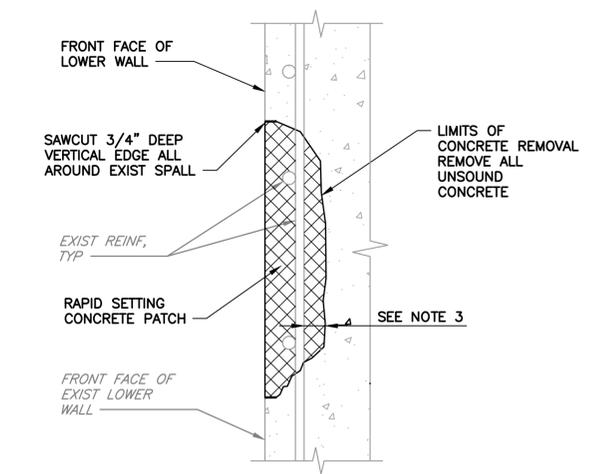
STRENGTH	W/C	TYPE OF CONCRETE
5,000 PSI	0.50	NORMAL WEIGHT
- ALL REINFORCING BARS SHALL CONFORM TO ASTM A934, GRADE 60 (PRE-FABRICATED EPOXY COATED).
- CONCRETE SHOULD BE REMOVED ALONG THE EXISTING REINFORCEMENT LENGTH UNTIL THE BAR IS FREE OF CORROSION PRODUCTS.
- LOOSE CORROSION (RUST) MUST BE REMOVED FROM THE EXISTING REINFORCING BY SCRUBBING, GRINDING, ETC. WITH AN APPROPRIATE TOOL (WIRE BRUSH, SAND BLASTER, ETC.), DEPENDING ON THE EXTENT AND LEVEL OF CORROSION.
- APPLY REBAR COATING & BONDING AGENT, ANTI-CORROSIVE EPOXY PRIMER OR FERROSEAL CEMENT-BASED ANTI-CORROSIVE COATING APPLIED TO THE REBARS.
- REINFORCING STEEL SHALL HAVE MINIMUM 2" CONCRETE COVER OR MATCH EXISTING COVER, WHICHEVER IS GREATER.
- CONTRACTOR SHALL INSTALL TEMPORARY CONTAINMENT SYSTEM TO PREVENT DUST AND DEBRIS FROM ENTERING ADJACENT WATER BODIES.



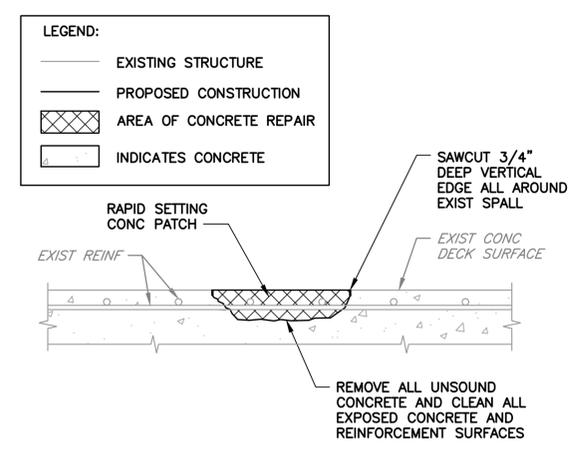
DETAIL 1
 REPAIR SPALLED SURFACE AREA
 AT DECK SLAB
 SCALE: 1/2" = 1'-0"



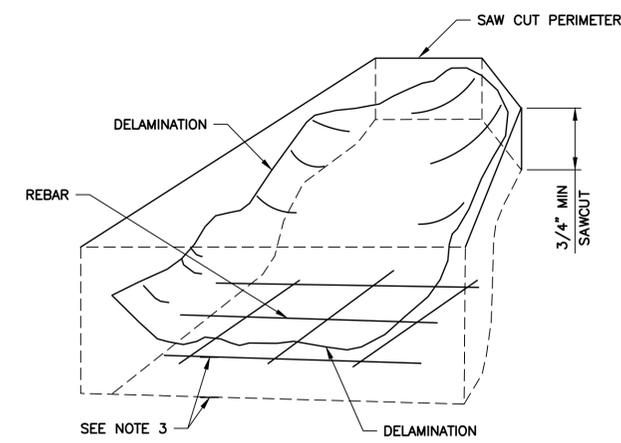
DETAIL 2
 REPAIR SPALLED SURFACE AREA
 AT EDGE OF DECK OR WALL
 SCALE: 1/2" = 1'-0"



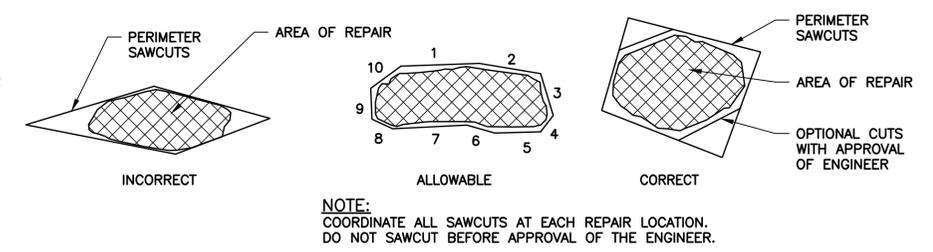
DETAIL 3
 CONCRETE SPALL REPAIR AT
 VERTICAL SURFACE
 NO SCALE



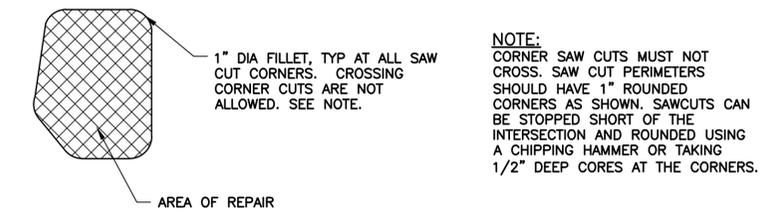
DETAIL 4
 CONCRETE SPALL REPAIR AT
 HORIZONTAL SURFACE
 NO SCALE



DETAIL 5
 SCHEMATIC OF CONCRETE SPALL
 REPAIR PREPARATION
 NO SCALE



DETAIL 6
 REPAIR AREA PERIMETER
 SAWCUT SHAPES
 NO SCALE

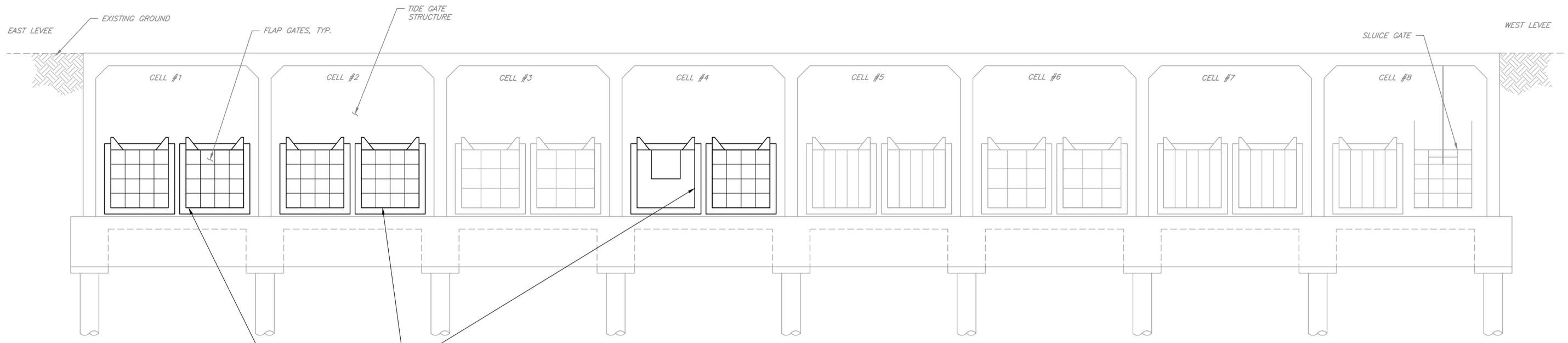


DETAIL 7
 SAWCUT CORNER SHAPES
 NO SCALE

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES	BIGGS CARDOSA ASSOCIATES INC. STRUCTURAL ENGINEERS	DATE	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
				1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL	865 The Alameda San Jose, California 95126 408-296-5515	5/05/2025			PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT CONCRETE REPAIR DETAILS	AS SHOWN	10394001
											SHEET CODE: S-10
								05/05/2025			SHEET NUMBER: 24

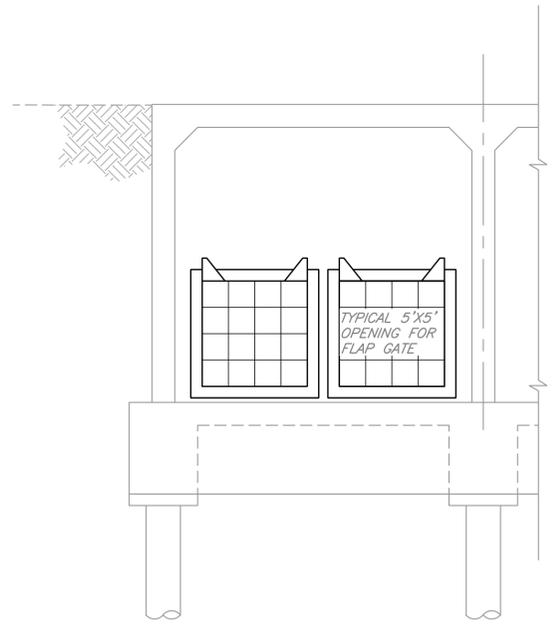
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DOCUMENT NUMBER: PAA_LP-S-1039-85310

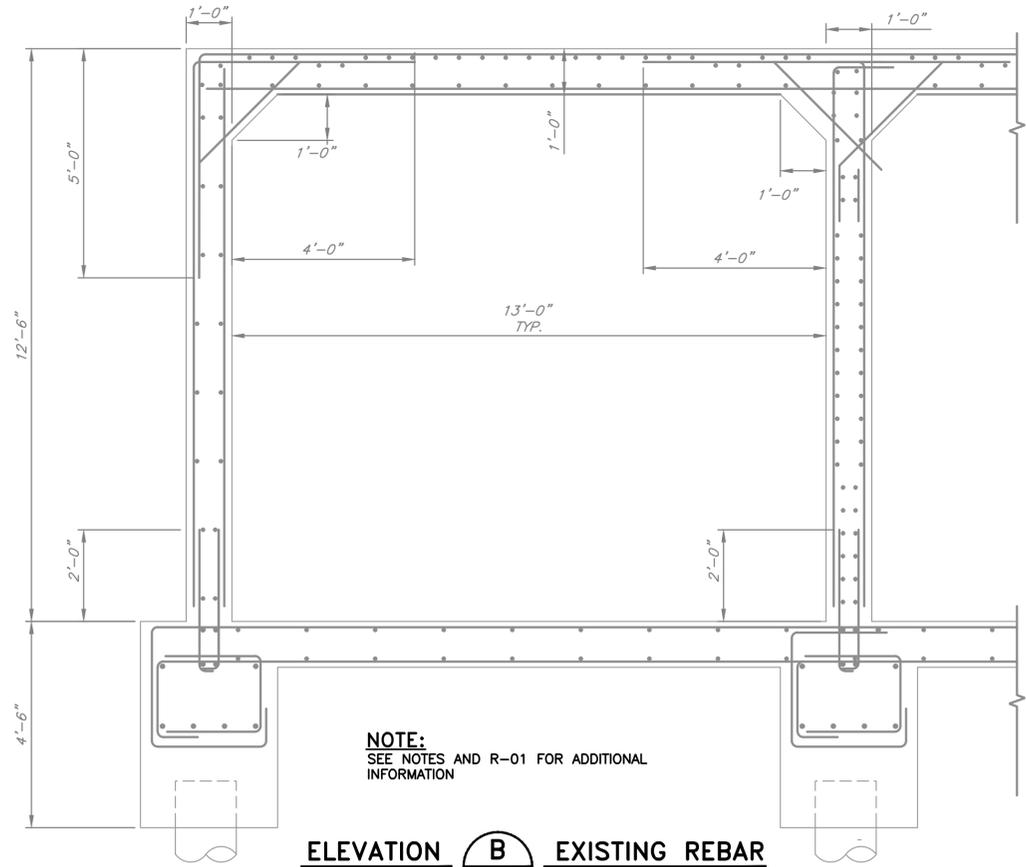


ELEVATION A NORTH BAY SIDE
SCALE: 1" = 4'

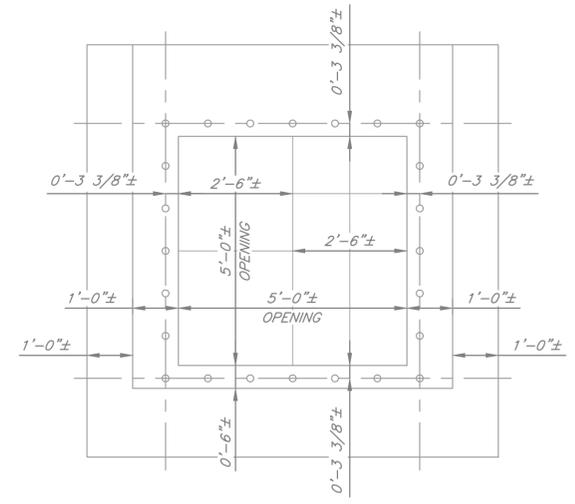
- NOTES:**
1. THE CONTRACTOR SHALL INSPECT THE EXISTING FLAP GATE STRUCTURE CONCRETE FOR ANY SPALLING AND CRACKING.
 2. PRIOR TO FLAP GATE INSTALLATION, THE CONTRACTOR SHALL PREPARE THE CONCRETE SURFACE BY THOROUGH CLEANING TO BE FREE FROM ANY MARINE GROWTH, DEBRIS AND CORROSION DAMAGE.
 3. THE CONTRACTOR SHALL COORDINATE WITH THE FLAP GATE MANUFACTURER TO CONFIRM THE BOLT LAYOUT PATTERN AND HINGE CONFIGURATION.
 4. THE CONTRACTOR SHALL CUT FLUSH EXISTING ANCHOR BOLTS TO THE EXISTING CONCRETE SURFACE TO ACCOMMODATE THE NEW FLAP GATE.
 5. THE WORK PERIOD FOR THE FLAP GATE INSTALLATION SHALL BE BETWEEN SEPTEMBER 1, 2026 AND OCTOBER 15, 2026. SEE SHEET C-02 FOR A CONTROL OF WATER SAMPLE.



DETAIL 1 HYDRAULIC FLAP GATE REPLACEMENT, TYP.
SCALE: 1" = 4'



ELEVATION B EXISTING REBAR SECTION TYP.
SCALE: 1" = 2'



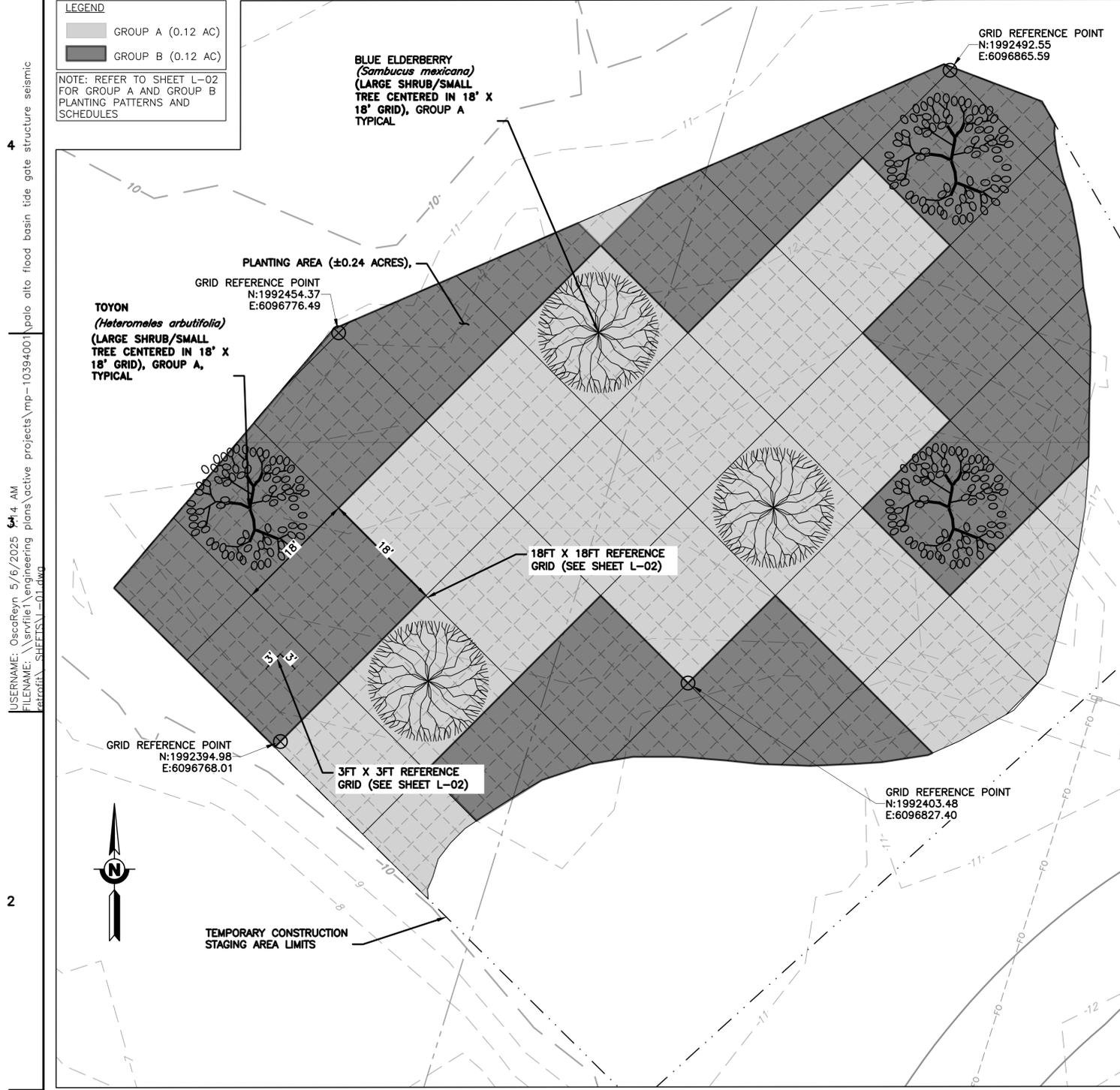
DETAIL 2 EXISTING BOLT LAYOUT PATTERN
SCALE: 1" = 2'

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES

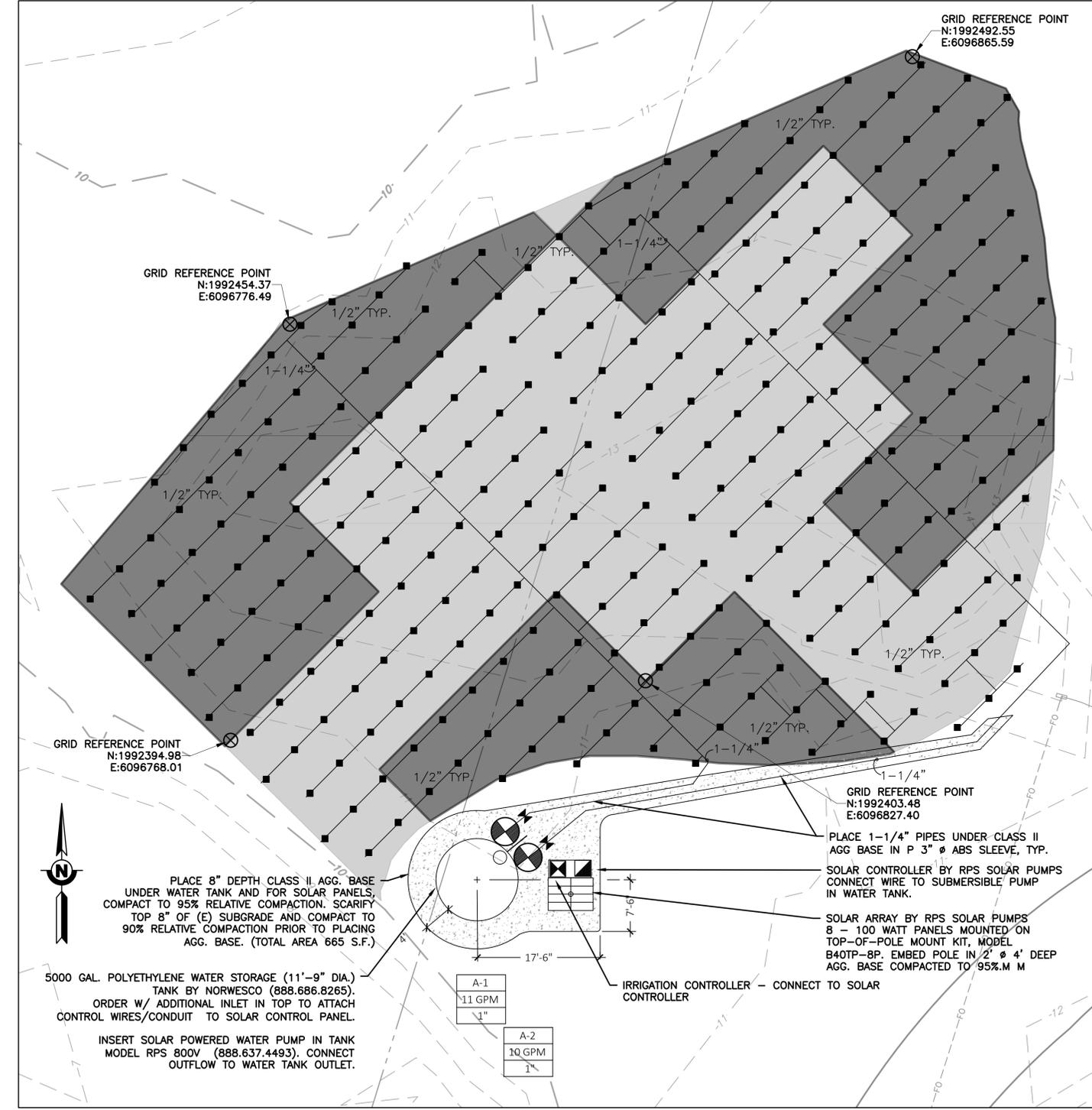
DATE 5/05/2025	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
DESIGN M. HUSSAINI		
DRAWN C. SARMIENTO		
CHECKED K. NEUMAN		
ENGINEER		

PROJECT NAME AND SHEET DESCRIPTION:
PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT
 HYDRAULIC FLAP GATE REPLACEMENT DETAILS

SCALE AS SHOWN	PROJECT NUMBER 10394001
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-11
	SHEET NUMBER: 25



PLANTING PLAN
 SCALE: 1" = 10'



IRRIGATION PLAN
 SCALE: 1" = 10'

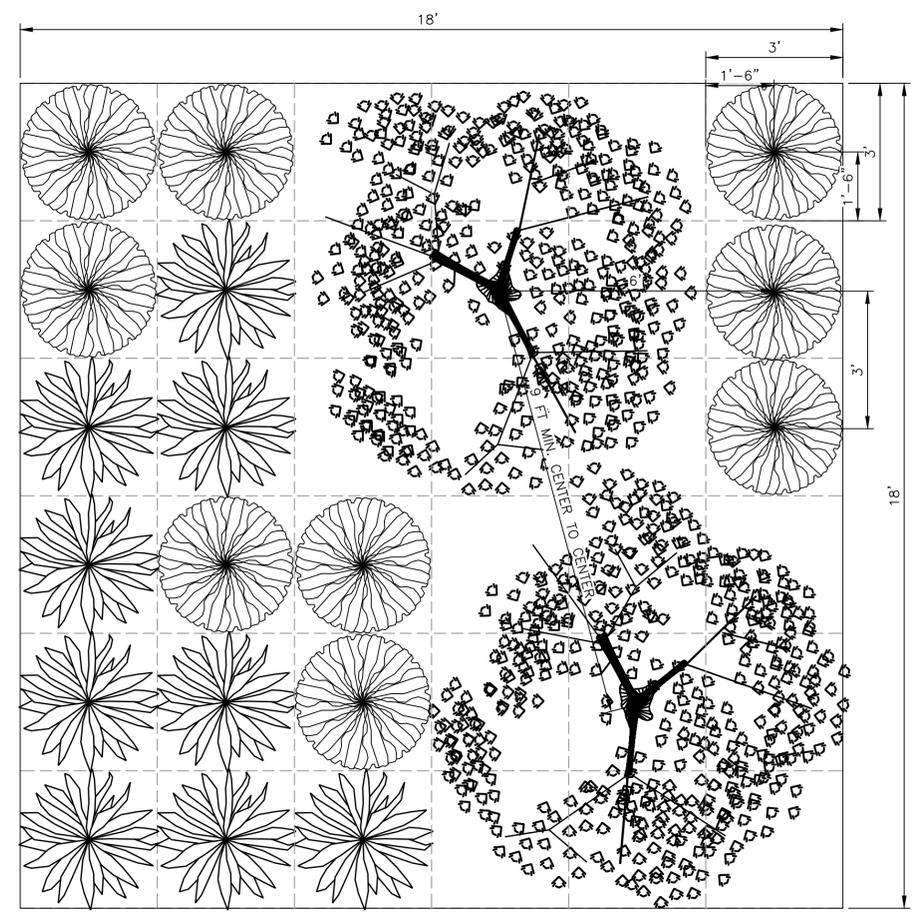
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REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

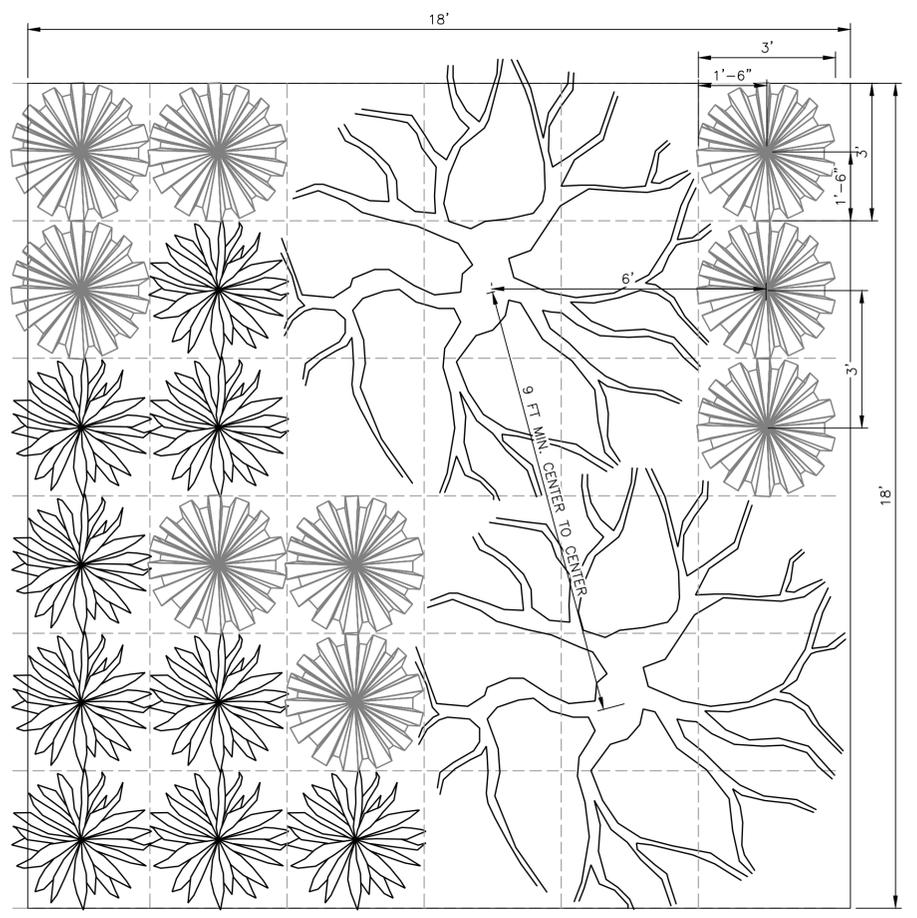
 Stillwater Sciences <small>John Northmore Roberts & Associates</small>	DATE 5/05/2025 DESIGN NLJ DRAWN RBM CHECKED JNR	ENGINEERING CERTIFICATION ENGINEER	SANTA CLARA VALLEY WATER DISTRICT Mo Hussain PROJECT ENGINEER	05/05/2025 ACCEPTED BY DISTRICT DATE
	PROJECT NAME AND SHEET DESCRIPTION: PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT PLANTING AND IRRIGATION PLAN			

SCALE AS SHOWN VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 10394001 SHEET CODE: L-01 SHEET NUMBER: 26
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4
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GROUP A PLAN DETAIL
 SCALE: 1/2" = 1'



GROUP B PLAN DETAIL
 SCALE: 1/2" = 1'

- PLANTING PATTERN NOTES:**
1. APPLY THE GROUP A/ GROUP B PATTERNS IN THE 18 FT X 18 FT GRID SHOWN ON SHEET L-01. SURVEY THE GRID REFERENCE POINTS PROVIDED ON SHEET L-01 TO LAY OUT THE 18 FT X 18 FT GRID SQUARES MARK THE 3 FT X 3 FT GRID SQUARES WITHIN THE LARGER GRID PATTERN. PLANTS ARE TO BE INSTALLED IN THE CENTER OF A GRID SQUARE AS SHOWN IN THE DETAIL THIS SHEET.
 2. ROTATE THE DESIGNATED PLANTING PATTERN 90 DEGREES CLOCKWISE EVERY OTHER GRID SQUARE TO VARY PLANTING ARRANGEMENTS FOR A MORE NATURAL AESTHETIC.
 3. WHERE A SPECIFIC LARGE SHRUB/SMALL TREE IS DESIGNATED IN AN 18X18 FT GRID SQUARE ON SHEET L-01, DO NOT APPLY THE GROUP A OR GROUP B PLANTING PATTERNS SHOWN ON THIS SHEET IN THAT GRID SQUARE; ONLY INSTALL THE DESIGNATED LARGE SHRUB/SMALL TREE AND HERBACEOUS UNDERSTORY.
 4. INSTALL HERBACEOUS PLANTS THROUGHOUT UNDERSTORY SUBSEQUENT TO INSTALLING GROUP A/B SHRUB PATTERNS, MINIMUM 3FT FROM ANY SHRUB STEM; REFER TO SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.
 5. REFER TO SHEET L-03 FOR PLANTING DETAILS.
 6. REFER TO SPECIFICATIONS FOR ADDITIONAL PLANTING NOTES.

PLANTING ZONE	AREA OF PLANTING ZONE (FT2)	SCIENTIFIC NAME	COMMON NAME	LIFE FORM	CONTAINER PLANT SIZE	AVERAGE SPACING (FEET ON-CENTER)	PERCENT FILL	TOTAL PLANTS	
STAGING AREA 1	10,468	<i>ARTEMISIA CALIFORNICA</i>	CALIFORNIA SAGEBRUSH	SHRUB	TB4/TP4/1 gallon	9	21%	27	
		<i>BACCHARIS PILULARIS SUBSP. CONSANGUINEA</i>	COYOTEBRUSH	SHRUB	TB4/TP4/1 gallon	9	21%	27	
		<i>DIPLACUS AURANTIACUS</i>	ORANGE BUSH MONKEYFLOWER	SUBSHRUB, SHRUB	TB4/TP4/1 gallon	3	10%	110	
		<i>ERIOGONUM FASCICULATUM</i>	CALIFORNIA BUCKWHEAT	PERENNIAL MAT, SHRUB	TB4/TP4/1 gallon	3	19%	221	
		<i>GRINDELIA STRICTA VAR. ANGUSTIFOLIUM</i>	GUMLANT	PERENNIAL HERB, SUBSHRUB	TB4/TP4/1 gallon	3	10%	110	
		<i>HETEROMELES ARBUTIFOLIA</i>	TOYON	LARGE SHRUB /SMALL TREE	TB4/TP4/1 gallon	18 (CENTER IN 18x18 FT GRID)	10%	3	
		<i>SAMBUCUS MEXICANA</i>	BLUE ELDERBERRY	LARGE SHRUB	TB4/TP4/1 gallon	18 (CENTER IN 18x18 FT GRID)	10%	3	
	TOTAL SHRUBS							100%	501
	10,468	<i>ACHILLEA MILLEFOLIUM</i>	COMMON YARROW	PERENNIAL HERB	TB2/D20	3	8%	93	
		<i>AMBROSIA PSILOSTACHYA</i>	WESTERN RAGWEED	PERENNIAL HERB	TB2/D20	3	8%	93	
		<i>ELYMUS GLAUCUS</i>	WESTER WILD RYE	PERENNIAL GRASS	TB2/D20	3	8%	93	
		<i>EPILOBIUM CANUM</i>	CALIFORNIA FUCHSIA	PERENNIAL HERB	TB2/D20	3	8%	93	
		<i>ERIOPHYLLUM CONFERTIFLORUM VAR. CONFERTIFLORUM</i>	GOLDEN-YARROW	SUBSHRUB	TB2/D20	3	8%	93	
		<i>ESCHSCHOLZIA CALIFORNICA</i>	CALIFORNIA POPPY	ANNUAL	TB2/D20	3	8%	93	
<i>STIPA PULCHRA</i>		PURPLE NEEDLE GRASS	PERENNIAL GRASS	TB2/D20	3	8%	93		
TOTAL HERBACEOUS							56%	651	

LEGEND						
	SCIENTIFIC NAME	COMMON NAME	FORM	MATERIAL	SPACING (FEET)	PLANTING GROUP (A/B)
	<i>ARTEMISIA CALIFORNICA</i>	CALIFORNIA SAGEBRUSH	SHRUB	CONTAINER	9	A
	<i>DIPLACUS AURANTIACUS</i>	ORANGE BUSH MONKEYFLOWER	SUBSHRUB, SHRUB	CONTAINER	3	A
	<i>ERIOGONUM FASCICULATUM</i>	CALIFORNIA BUCKWHEAT	PERENNIAL MAT, SHRUB	CONTAINER	3	A & B
	<i>BACCHARIS PILULARIS SUBSP. CONSANGUINEA</i>	COYOTEBRUSH	SHRUB	CONTAINER	9	B
	<i>GRINDELIA STRICTA VAR. ANGUSTIFOLIUM</i>	GUMLANT	PERENNIAL HERB, SUBSHRUB	CONTAINER	3	B

DOCUMENT NUMBER: PAA_LP-L-1039-85312

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

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 John Northmore Roberts & Associates

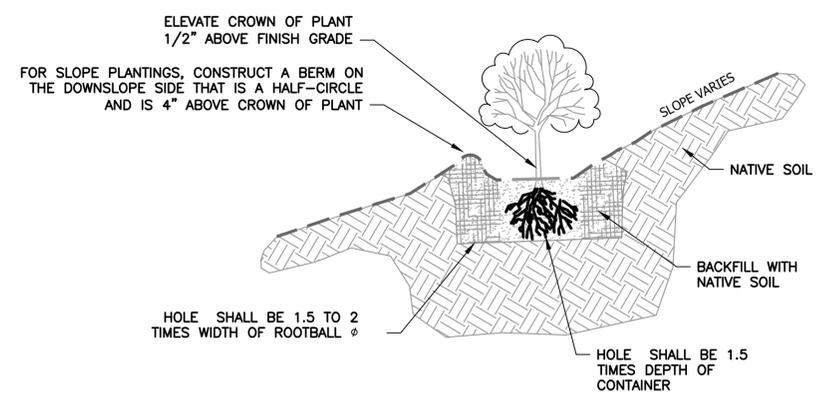
DATE: 5/05/2025
 DESIGN: NLJ
 DRAWN: RBM
 CHECKED: JNR
 ENGINEER

ENGINEERING CERTIFICATION
 SANTA CLARA VALLEY WATER DISTRICT
 Mo Hussain
 PROJECT ENGINEER
 DATE: 05/05/2025
 ACCEPTED BY DISTRICT

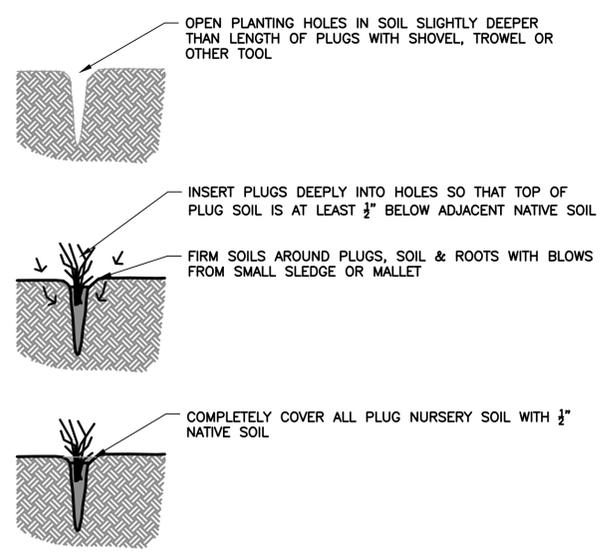
PROJECT NAME AND SHEET DESCRIPTION:
PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT
 PLANTING PATTERN DETAILS AND SCHEDULE

SCALE: AS SHOWN
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 SHEET CODE: L-02
 SHEET NUMBER: 27

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CONTAINER PLANTING
SCALE: NO SCALE



PLUG PLANTING
SCALE: NO SCALE



REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

Stillwater Sciences

John Northmore Roberts & Associates

DATE	5/05/2025
DESIGN	NLJ
DRAWN	RBM
CHECKED	JNR

ENGINEERING CERTIFICATION

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

PROJECT ENGINEER ACCEPTED BY DISTRICT

Mo Hussain 05/05/2025

PROJECT NAME AND SHEET DESCRIPTION:
PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT

PLANTING DETAILS

SCALE AS SHOWN

VERIFY SCALES

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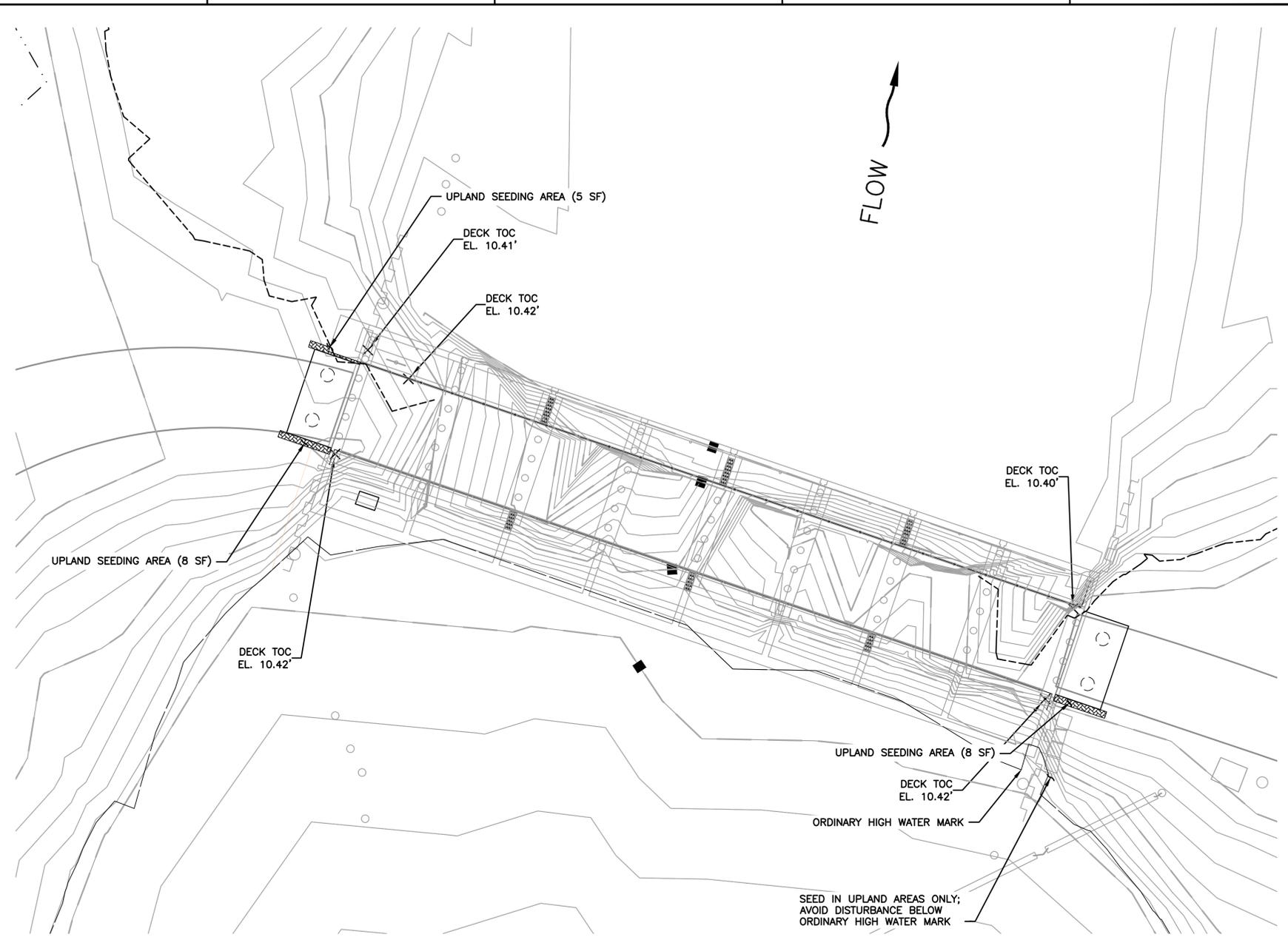
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DOCUMENT NUMBER: PAA_LP-L-1039-85314



SEEDING PLAN - STAGING AREA 1
 SCALE: 1" = 20'



SEEDING PLAN - TIDE GATE STRUCTURE
 SCALE: 1" = 10'

SEEDING ZONE	AREA OF SEEDING ZONE (SQ. FT.)	SCIENTIFIC NAME	COMMON NAME	LIFE FORM	BROADCAST SEEDING RATE (LBS/ACRE)	PERCENT COMPOSITION IN SEED MIX	TOTAL QUANTITY (OZ.)
UPLAND EROSION CONTROL AREAS	10,491	<i>ACHILLEA MILLEFOLIUM</i>	COMMON YARROW	PERENNIAL HERB	0.6	10%	0.231
		<i>BROMUS SITCHENSIS VAR. CARINATUS</i>	CALIFORNIA BROME	PERENNIAL GRASS	3	10%	1.156
		<i>ELYMUS GLAUCUS</i>	WESTER WILD RYE	PERENNIAL GRASS	16.2	10%	6.243
		<i>ESCHSCHOLZIA CALIFORNICA</i>	CALIFORNIA POPPY	ANNUAL HERB	7.4	10%	2.852
		<i>FESTUCA MICROSTACHYS</i>	PACIFIC FESCUE	ANNUAL GRASS	10.9	10%	4.200
		<i>HORDEUM BRACHYANTHERUM SUBSP. CALIFORNICUM</i>	CALIFORNIA BARLEY	PERENNIAL GRASS	17.2	10%	6.628
		<i>LAYIA PLATYGLOSSA</i>	TIDY-TIPS	ANNUAL HERB	7.3	10%	2.813
		<i>PHACELIA CALIFORNICA</i>	CALIFORNIA PHACELIA	PERENNIAL HERB	8.6	10%	3.314
		<i>SYMPHYOTRICHUM CHILENSE</i>	PACIFIC ASTER	PERENNIAL HERB	0.8	10%	0.308
		<i>LUPINUS BICOLOR</i>	MINIATURE LUPINE	ANNUAL HERB	29	10%	11.175
			TOTAL HERBACEOUS				100%

NOTES:
 1. REFER TO SPECIFICATIONS FOR ADDITIONAL SEEDING NOTES.

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

John Northmore Roberts & Associates

DATE: 5/05/2025
 DESIGN: NLJ
 DRAWN: RBM
 CHECKED: JNR
 ENGINEER

ENGINEERING CERTIFICATION
 JOHN J. ROBERTS
 44478 36322
 STATE OF CALIFORNIA

SANTA CLARA VALLEY WATER DISTRICT
 PROJECT ENGINEER: Mo Hussain
 ACCEPTED BY DISTRICT: 05/05/2025
 DATE

PROJECT NAME AND SHEET DESCRIPTION:
PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT
 SEEDING PLAN AND SCHEDULE

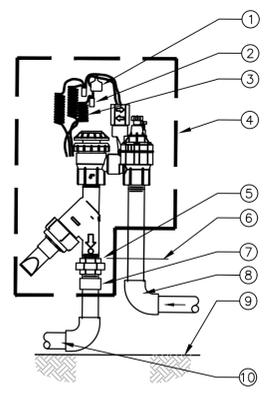
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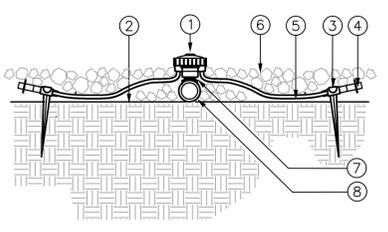
IRRIGATION LEGEND

SYMBOL	MFR	MODEL	DESCRIPTION
◆	RAINBIRD	XBD-80	MULTI-OUTLET DRIP EMISSION HEAD, PROVIDE W 8-0.5 GPH XERI-BUG EMITTERS.
⊙	GRISWOLD	DWS	BRASS ELECTRIC REMOTE-CONTROL VALVE. FOR DRIP CIRCUIT, INSTALL WITH 3/4" INLINE WYE FILTER W/ #200 MESH, AND PRESSURE-REDUCTION VALVE AS REQ'D
■	IRRITROL	MC-PLUS	CONTROLLER: 6-STATION, SOLID-STATE, WALL-MOUNTED, IN HEAVY-DUTY STAINLESS STEEL ENCLOSURE, RAIN SENSOR CAPABILITY, MOUNT TO 4" DIA. POST FOR SOLAR PANELS.
⊠	NIBCO	SEE SPECS	BRASS GATE VALVE - LINE SIZE
—	PVC LATERAL LINE PIPE, SCH 40, UV RESISTANT - 1/2" SIZE OR AS NOTED ON PLANS		
- - -	PVC MAIN LINE PIPE, SCH 40, UV RESISTANT - 1-1/4" SIZE		



REMOTE CONTROL VALVE
SCALE: NO SCALE

- ① ID TAG
- ② WATERPROOF CONNECTION
- ③ 30 INCHES LINEAR LENGTH CONTROL WIRE, COILED
- ④ CONTROL ZONE KIT: LOW FLOW ANTI-SIPHON VALVE BACK FLUSH PRESSURE REGULATING FILTER W/ DUCK BILL BOOT
- ⑤ PVC SCH. 80 UNION
- ⑥ INSTALL 6" MIN. ABOVE HIGHEST PT. OF DISCHARGE
- ⑦ PVC SCH. MALE ADAPTER
- ⑧ UV RESISTANT PVC SCH 40 PIPE TYP.
- ⑨ FINISH GRADE
- ⑩ PVC LATERAL PIPE



DRIP EMITTERS
SCALE: NO SCALE

- ① XERI-BIRD 8 MULTI-OUTLET HEAD
- ② FINISH GRADE
- ③ TUBING STAKE
- ④ BUG CAP
- ⑤ DISTRIBUTION TUBING
- ⑥ MULCH
- ⑦ PVC SCH. 40 TEE
- ⑧ PVC LATERAL LINE (BROWN PIPE)

IRRIGATION NOTES

- SYSTEM DESIGNED FOR 30 PSI AND 11 GPM MINIMUM AT THE POINT OF CONNECTION (AT WATER TANK). CONFIRM PRIOR TO START OF WORK.
- MAKE IRRIGATION POINTS OF CONNECTION AS INDICATED ON PLAN AND COORDINATE WITH OTHER WORK AS REQUIRED.
- COORDINATE WITH SOLAR INSTALLATION TO PROVIDE POWER TO IRRIGATION CONTROLLER. EXACT LOCATION OF CONTROLLER TO BE APPROVED BY PROJECT ENGINEER BEFORE INSTALLATION.
- FULL COVERAGE IS REQUIRED. CONTRACTOR SHALL MAKE MINOR MODIFICATIONS TO LAYOUT AS REQUIRED TO OBTAIN COMPLETE COVERAGE AND REVIEW WITH PROJECT ENGINEER.
- ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES.
- PROVIDE AN 8" DEEP CLASS II AGGREGATE BASE PAD TO PLACE THE WATER TANK AND SOLAR ARRAY ON. BURY SOLAR AND CONTRLLER WIRES IN CONDUIT IN PAD.
- EMBED SUPPORT POST FOR SOLAR PANELS 4' INTO 2'ø HOLE., BACKFILL WITH CLASS II AGG. BASE, COMPACTED TO 95% RELATIVE COMPACTION INSTALL PLUMB. PLACE PANELS ON FRAME PER MANUFACTURER'S DIRECTION FACING DUE SOUTH OR WITHIN 10 DEGREES WEST OF SOUTH, MOUNT IRRIGATION CONTROLLER AND SOLAR CONTROLLER ON POST.
- PROVIDE ENGINEER WITH WARRANTIES AND OPERATING INSTRUCTIONS FOR ALL EQUIPMENT. INSTRUCT ENGINEER IN OPERATION OF CONTROLLER UPON CONCLUSION OF PLANT ESTABLISHMENT WORK.

IRRIGATION VALVE CALLOUT:

A-1	—	VALVE NUMBER
12	—	GALLONS PER MINUTE (U.O.N.)
1"	—	VALVE SIZE

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

Stillwater Sciences
 John Northmore Roberts & Associates
 LANDSCAPE ARCHITECTS & PLANNERS

DATE: 5/05/2025
 DESIGN: MAG
 DRAWN: MAG
 CHECKED: JNR
 ENGINEER

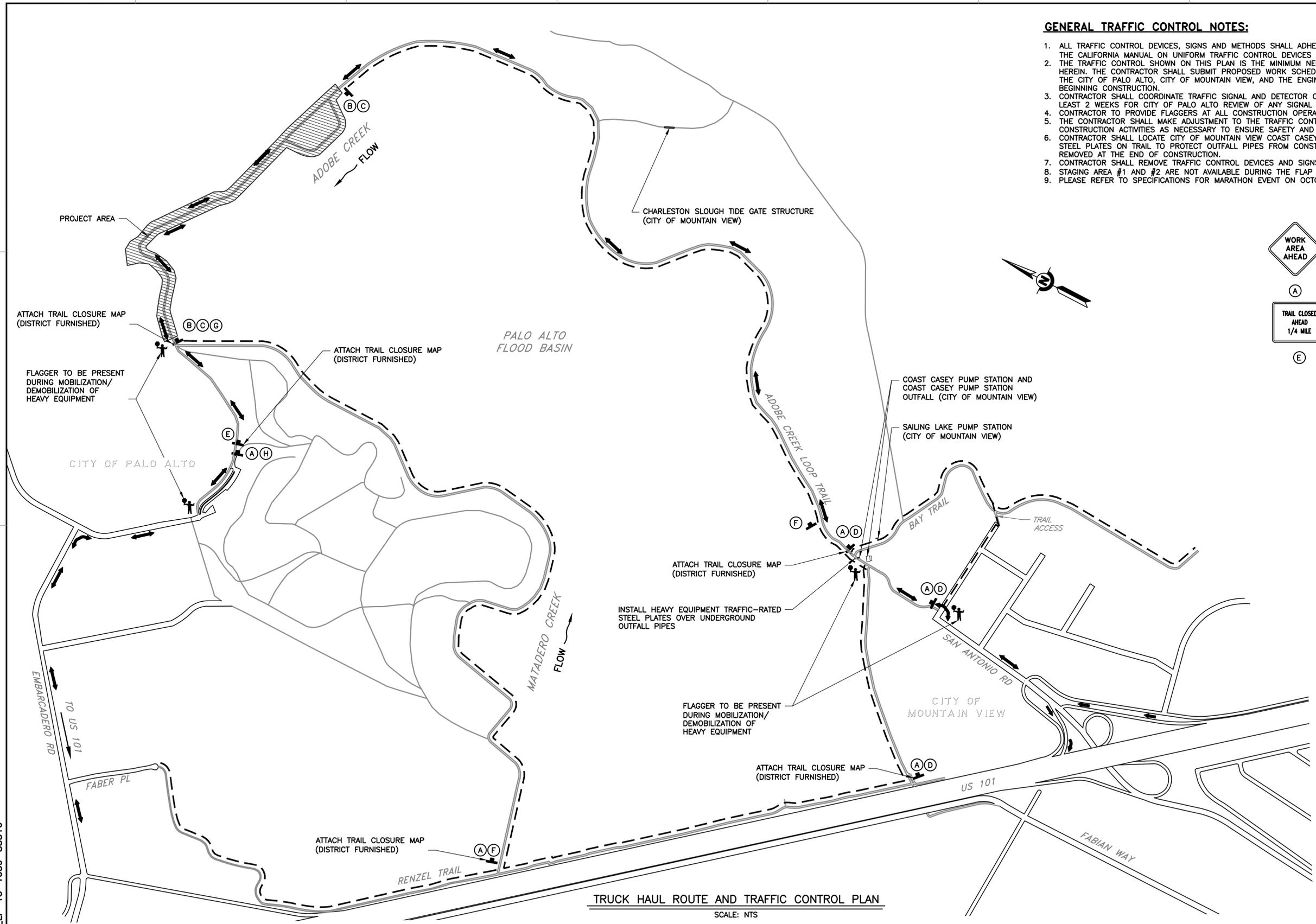
ENGINEERING CERTIFICATION
 SANTA CLARA VALLEY WATER DISTRICT

 Mo Hussain
 PROJECT ENGINEER
 ACCEPTED BY DISTRICT

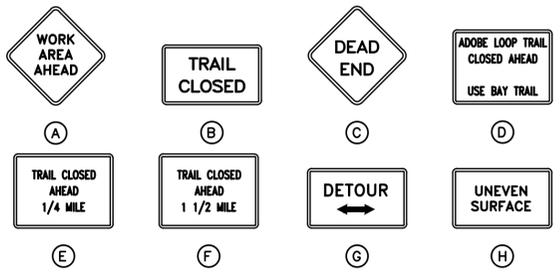
PROJECT NAME AND SHEET DESCRIPTION:
PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT
 IRRIGATION LEGEND, NOTES AND DETAILS

SCALE AS SHOWN
 VERIFY SCALES
 0 1"
 BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
 PROJECT NUMBER: 10394001
 SHEET CODE: L-05
 SHEET NUMBER: 30

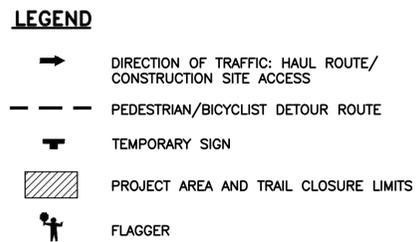
USER: OscarReyn 5/5/2025 1:42 PM
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 DOCUMENT NUMBER: PAA_LP_TC-1039-85316



- GENERAL TRAFFIC CONTROL NOTES:**
1. ALL TRAFFIC CONTROL DEVICES, SIGNS AND METHODS SHALL ADHERE TO SECTION 6 OF THE LATEST VERSION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 2. THE TRAFFIC CONTROL SHOWN ON THIS PLAN IS THE MINIMUM NECESSARY FOR THE PHASE OF WORK DESCRIBED HEREIN. THE CONTRACTOR SHALL SUBMIT PROPOSED WORK SCHEDULE, TRAFFIC CONTROL, AND PHASING PLANS TO THE CITY OF PALO ALTO, CITY OF MOUNTAIN VIEW, AND THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BEGINNING CONSTRUCTION.
 3. CONTRACTOR SHALL COORDINATE TRAFFIC SIGNAL AND DETECTOR CHANGES WITH THE CITY OF PALO ALTO. ALLOW AT LEAST 2 WEEKS FOR CITY OF PALO ALTO REVIEW OF ANY SIGNAL RELATED MODIFICATION PLANS.
 4. CONTRACTOR TO PROVIDE FLAGGERS AT ALL CONSTRUCTION OPERATIONS AS NECESSARY.
 5. THE CONTRACTOR SHALL MAKE ADJUSTMENT TO THE TRAFFIC CONTROL PLAN AND TRUCK HAUL ROUTE FOR ONGOING CONSTRUCTION ACTIVITIES AS NECESSARY TO ENSURE SAFETY AND MINIMIZE INCONVENIENCE TO THE PUBLIC.
 6. CONTRACTOR SHALL LOCATE CITY OF MOUNTAIN VIEW COAST CASEY PUMP STATION OUTFALL PIPES AND UTILIZE STEEL PLATES ON TRAIL TO PROTECT OUTFALL PIPES FROM CONSTRUCTION LOADING. STEEL PLATES SHALL BE REMOVED AT THE END OF CONSTRUCTION.
 7. CONTRACTOR SHALL REMOVE TRAFFIC CONTROL DEVICES AND SIGNS AT THE END OF CONSTRUCTION.
 8. STAGING AREA #1 AND #2 ARE NOT AVAILABLE DURING THE FLAP GATE INSTALLATION FOR CONTRACTOR USE.
 9. PLEASE REFER TO SPECIFICATIONS FOR MARATHON EVENT ON OCTOBER 3RD.



CONSTRUCTION AREA SIGNS			
SIGN NO	DESCRIPTION	SIGN SIZE	QTY OF 4"x4" POST
(A)	WORK AREA AHEAD	30"x30"	1
(B)	TRAIL CLOSED	48"x30"	1
(C)	DEAD END	30"x30"	1
(D)	ADOBE LOOP TRAIL CLOSED AHEAD (USE BAY TRAIL)	60"x30"	2
(E)	TRAIL CLOSED AHEAD 1/4 MILE	60"x30"	2
(F)	TRAIL CLOSED AHEAD 1 1/2 MILE	60"x30"	2
(G)	DETOUR [DOUBLE SIDED ARROW SYMBOL]	30"x24"	1
(H)	UNEVEN SURFACE	30"x18"	1



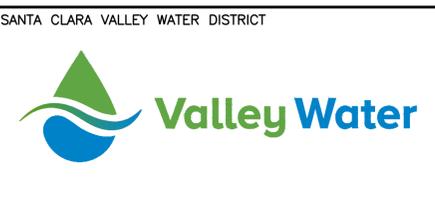
TRUCK HAUL ROUTE AND TRAFFIC CONTROL PLAN
SCALE: NTS

REV	DESCRIPTION	DATE	APPR

REFERENCE INFORMATION AND NOTES

1. CONTRACTOR SHALL COMPLY WITH EQUIPMENT WEIGHT LIMIT RESTRICTIONS WHILE ACCESSING THE TOP OF THE TRAIL/LEVEE PER CONTRACT SPECIFICATIONS ARTICLE 13.05.04 TRUCK LOADING.

DATE: 5/05/2025
 DESIGN: M. HUSSAINI
 DRAWN: J. ARIANI
 CHECKED: K. NEUMAN
 ENGINEER DATE

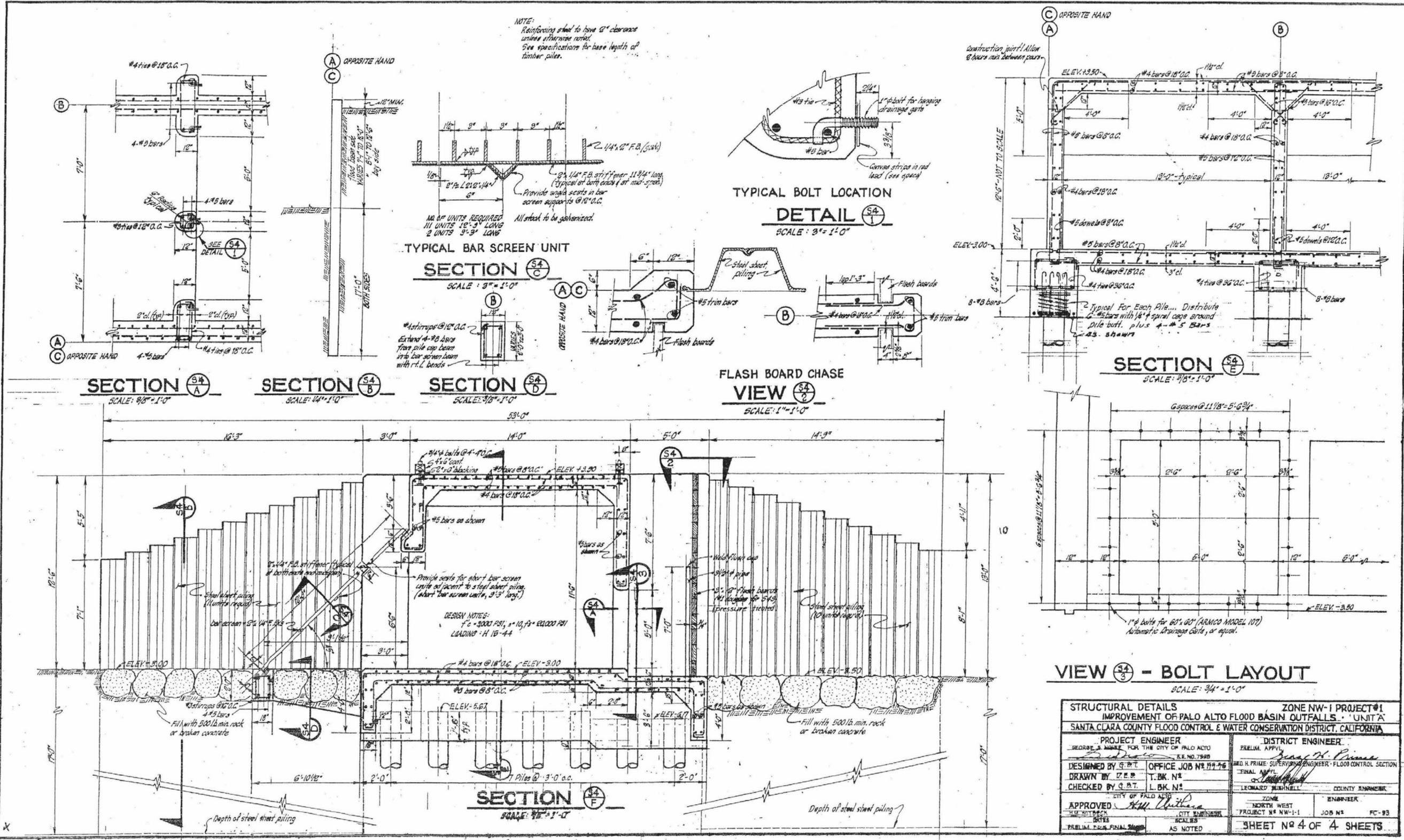


PROJECT NAME AND SHEET DESCRIPTION:
PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT
 TRUCK HAUL ROUTE, TEMPORARY TRAIL CLOSURE, AND TRAFFIC CONTROL PLAN

SCALE: AS SHOWN
 VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 10394001
 SHEET CODE: TC-01
 SHEET NUMBER: 31

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 DOCUMENT NUMBER: PAA_LP-R-1039-85317



STRUCTURAL DETAILS IMPROVEMENT OF PALO ALTO FLOOD BASIN OUTFALLS - UNIT A SANTA CLARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT, CALIFORNIA		ZONE NW-1 PROJECT #1 COUNTY ENGINEER	
PROJECT ENGINEER GEORGE S. MAREK FOR THE CITY OF PALO ALTO E.E. NO. 7500	DISTRICT ENGINEER BOB H. PRIME SUPERVISING ENGINEER - FLOOD CONTROL SECTION FINAL APPROVAL	DESIGNED BY G.P.T. OFFICE JOB NO. 19-76	COUNTY ENGINEER LEONARD BURNETT
DRAWN BY G.P.T. T.B.K. NO.	CHECKED BY G.P.T. L.B.K. NO.	APPROVED CITY ENGINEER	ZONE NORTH WEST PROJECT NO. NW-1-1 JOB NO. FC-93
PRELIM. SCALE AS NOTED		SHEET NO. 4 OF 4 SHEETS	

FOR REFERENCE ONLY

DATE 5/05/2025	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT
DESIGN		PROJECT NAME AND SHEET DESCRIPTION: PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT PALO ALTO FLOOD BASIN OUTFALLS STRUCTURE DETAILS
DRAWN		
CHECKED		
ENGINEER		

SCALE AS SHOWN	PROJECT NUMBER 10394001
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: R-01
	SHEET NUMBER: 32

8063

POLLUTION PREVENTION — IT'S PART OF THE PLAN

Construction projects are required to implement year-round stormwater BMPs, as they apply to your project.

Runoff from streets and other paved areas is a major source of pollution to San Francisco Bay. Construction activities can directly affect the health of the Bay unless contractors and crews plan ahead to keep construction dirt, debris, and other pollutants out of storm drains and local creeks. Following these guidelines will ensure your compliance with City of Palo Alto Ordinance requirements.



MATERIALS & WASTE MANAGEMENT

Non-Hazardous Materials

- Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or when they are not in use.
- Use (but don't overuse) reclaimed water for dust control.
- Ensure dust control water doesn't leave site or discharge to storm drains.

Hazardous Materials

- Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- Follow manufacturer's application instructions for hazardous materials and do not use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- Cover and maintain dumpsters. Check frequently for leaks. Place dumpsters under roofs or cover with tarps or plastic sheeting secured around the outside of the dumpster. A plastic liner is recommended to prevent leaks. Never clean out a dumpster by hosing it down on the construction site.
- Place portable toilets away from storm drains. Make sure they are in good working order. Check frequently for leaks.
- Dispose of all wastes and demolition debris properly. Recycle materials and wastes that can be recycled, including solvents, water-based paints, vehicle fluids, broken asphalt and concrete, wood, and cleared vegetation.
- Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.
- Keep site clear of litter (e.g. lunch items, cigarette butts).
- Prevent litter from uncovered loads by covering loads that are being transported to and from site.

Construction Entrances and Perimeter

- Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.



EQUIPMENT MANAGEMENT & SPILL CONTROL

Maintenance and Parking

- Designate an area of the construction site, well away from streams or storm drain inlets and fitted with appropriate BMPs, for auto and equipment parking, and storage.
- Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment, and do not use diesel oil to lubricate equipment or parts onsite.

Spill Prevention and Control

- Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- Maintain all vehicles and heavy equipment. Inspect frequently for and repair leaks. Use drip pans to catch leaks until repairs are made.
- Clean up leaks, drips and other spills immediately and dispose of cleanup materials properly.
- Use dry cleanup methods whenever possible (absorbent materials, cat litter and/or rags).
- Sweep up spilled dry materials immediately. Never attempt to "wash them away" with water, or bury them.
- Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- Report any hazardous materials spills immediately! Call City of Palo Alto Communications, (650) 329-2413. If the spill poses a significant hazard to human health and safety, property or the environment, you must report it to the State Office of Emergency Services. (800) 852-7550 (24 hours).



EARTHMOVING

Grading and Earthwork

- Schedule grading and excavation work during dry weather.
- Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- Remove existing vegetation only when absolutely necessary, plant temporary vegetation for erosion control on slopes or where construction is not immediately planned.
- Prevent sediment from migrating offsite and protect storm drain inlets, drainage courses and streams by installing and maintaining appropriate BMPs (e.g., silt fences, gravel bags, fiber rolls, temporary swales, etc.).
- Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

Contaminated Soils

- If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
 - Unusual soil conditions, discoloration, or odor.
 - Abandoned underground tanks.
 - Abandoned wells.
 - Buried barrels, debris, or trash.
- If the above conditions are observed, document any signs of potential contamination and clearly mark them so they are not disturbed by construction activities.

Landscaping

- Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round.
- Stack bagged material on pallets and under cover.
- Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.



CONCRETE MANAGEMENT & DEWATERING

Concrete Management

- Store both dry and wet materials under cover, protected from rainfall and runoff and away from storm drains or waterways. Store materials off the ground, on pallets. Protect dry materials from wind.
- Wash down exposed aggregate concrete only when the wash water can (1) flow onto a dirt area; (2) drain onto a bermed surface from which it can be pumped and disposed of properly; or (3) block any storm drain inlets and vacuum washwater from the gutter. If possible, sweep first.
- Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and make sure wash water does not leach into the underlying soil. (See CASQA Construction BMP Handbook for properly designed concrete washouts.)

Dewatering

- Reuse water for dust control, irrigation or another on-site purpose to the greatest extent possible.
- Be sure to obtain a Permit for Construction in the Public Street from Public Works Engineering before discharging water to a street, gutter, or storm drain. Call the Regional Water Quality Control Plant (RWQCP) at (650) 329-2598 for an inspection prior to commencing discharge. Use filtration or diversion through a basin, tank, or sediment trap as required by the approved dewatering plan. Dewatering is not permitted from October to April.
- In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the City inspector to determine what testing to do and to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.



PAVING/ASPHALT WORK

Paving

- Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- Cover storm drain inlets and manholes when applying seal coat, slurry seal, fog seal, or similar materials.
- Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.

Sawcutting & Asphalt/Concrete Removal

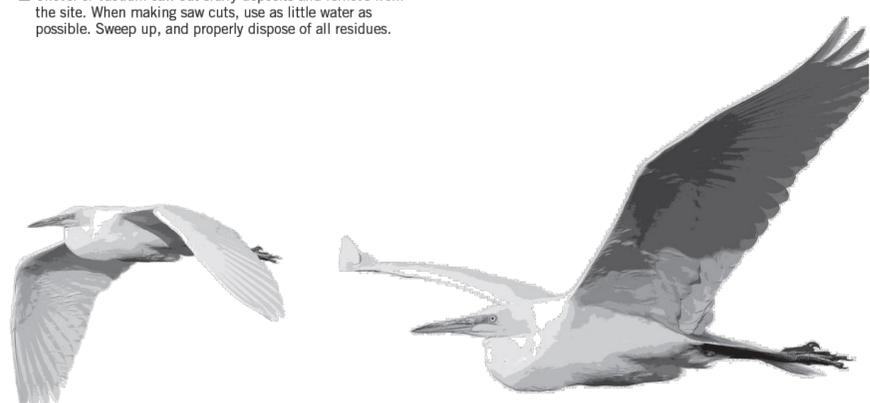
- Protect storm drain inlets during saw cutting.
- If saw cut slurry enters a catch basin, clean it up immediately.
- Shovel or vacuum saw cut slurry deposits and remove from the site. When making saw cuts, use as little water as possible. Sweep up, and properly dispose of all residues.



PAINTING & PAINT REMOVAL

Painting Cleanup and Removal

- Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
- For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain.
- For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
- Sweep up or collect paint chips and dust from non-hazardous dry stripping and sand blasting into plastic drop cloths and dispose of as trash.
- Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a state certified contractor.



STORM DRAIN POLLUTERS MAY BE LIABLE FOR FINES OF UP TO \$10,000 PER DAY!

250 Hamilton Avenue
Palo Alto, CA 94301
650.329.2211
cityofpaloalto.org

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	REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE 5/05/2025	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION: PALO ALTO FLOOD BASIN TIDE GATE STRUCTURE SEISMIC RETROFIT AND REHABILITATION PROJECT CITY OF PALO ALTO STORM WATER POLLUTION PREVENTION PLAN	SCALE AS SHOWN	PROJECT NUMBER 10394001
		FOR REFERENCE ONLY					 ENGINEER _____ DATE _____	 VALLEY WATER	BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: R-02 SHEET NUMBER: 33	

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