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	G01	TITLE	SHEET			
	G02	LEGEN	ID, ABBREVIATIONS, AND NO	DTES		
	G03	BASIS	OF DESIGN			
	G04	SITE C	VERVIEW			
	G05	CONS	RUCTION PHASING			в
	G06	ENVIR	ONMENTAL PROTECTION O	/ERVIEW		
	G07	ENVIR	ONMENTAL PROTECTION			
	G08	SPECI	AL TREE PROTECTION INSTR	RUCTION		
	G09	POLLU	TION PREVENTION			
	G10	EXISTI	NG CONDITIONS AND DEMO	LITION - EMBARC	ADERO ROAD	
	G11		NG CONDITIONS AND DEMO	LITION - PUMP ST	ATION &	
			LL BOX			
/IL	G12	EXIST	NG CONDITIONS AND DEMO	LITION - LEVEE A	KEA	
VIL	C01	CRAD	NG PLAN			с
	C01 C02		AL GRADING SECTIONS			Ľ
	C02		ONTAL LEVEE SECTIONS			
	C03		AL TREATMENT ZONE SECTI	ONS		
	C04		DETAILS	0.10		
	C06		RIAL PLACEMENT PLAN			
	C07		NG SECTIONS 1			
	C08		NG SECTIONS 2			
	C09		NG SECTIONS 3			
	C10		NG SECTIONS 4			
	C11		TRAILS PLAN AND PROFILE			D
	C12	STOR	I DRAIN PLAN			
	C13	STOR	I DRAIN PROFILES			
	C14	STOR	I DRAIN DETAILS			
	C15	PUBLI	C ACCESS DETAILS			
	C16	SEDIM	ENT AND EROSION CONTRO	DL PLAN		
CHANICAL						
	M01	MECH	ANICAL NOTES AND SYMBOL	\$		
	M02		ALL PLAN AND KEY NOTES	.0		
	M02		NG PLAN AND SECTIONS			
	M04		L MARSH PUMP BYPASS UP	GRADE (ADMIN B	LDG)	Е
	M05		ENT PIPE PLAN AND PROFIL			
	M06		ENT PIPE PLAN AND PROFIL			
	M07		EYANCE PIPE PLAN AND PRO			
	M08		ONTAL LEVEE SUPPLY PIPE			
	M09		ANICAL DETAILS 1			Н
ECTRICAL A	AND INSTRUME					
	E01		ID AND SYMBOLS			
	E02	ONE L	NE DIAGRAM			
	E03	OVER	ALL SITE PLAN			
	E04	UV ELI	ECTRICAL ROOM PLAN			F
	E05	RENZE	L MARSH PUMP CONTROL E	DIAGRAM		
	P01	SYMBO	OLS AND LEGEND			
	P02	HORIZ	ONTAL LEVEE FEED			
NDSCAPE						
	L01		NG PLAN ING & SEEDING PLAN			Н
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	L02		ING DETAILS			
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O HORIZ	ONTAL LEV	/EE PIL	OT PROJECT	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.	
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			10		1 OF 45	
	11		12	13		

3	PROPOSED		EXISTING	PROPOSED
		GAS LINE	GG	N/A
		OVERHEAD POWER LINE	OHOH	N/A
		OVERHEAD UTILITY POLE	0	N/A
		UTILITY BOX		N/A
		POTABLE WATER LINE	WW	N/A
	0-	STORM DRAIN LINE	SDSD	
		STORM DRAIN INLET		N/A
		CLEANOUT	W	N/A
		TELECOM LINE		N/A
		SANITARY SEWER LINE		N/A
		UNDERGROUND POWER LINE	—EE	N/A
		RECYCLED WATER LINE		N/A
		RECYCLED WATER BOX	RW	N/A
		RECYCLED WATER VALVE	0	N/A
	- 1 - 1 - 1 - 1 - 1 - 1 -	RECYCLED WATER HYDRANT	V	N/A
		HORIZONTAL LEVEE EFFLUENT SUPPLY LINE	N/A	EFF
		INFILTRATOR UNITS	N/A	
	<u> </u>	PIEZOMETER	N/A	-
	oo			
	N/A			

GENERAL	LEGEND

GENERAL NOTES

PROTECTION OF FACILITIES

DRAWINGS.

GENERAL

2

	EXISTING	PROPOSED
WORK LIMIT	N/A	
GRADING LIMIT	N/A	
PROPERTY BOUNDARY		N/A
ALIGNMENT		
EDGE OF PAVEMENT		N/A
EDGE OF TRAIL		N/A
BUILDING		N/A
SURVEY CONTROL POINT	\triangle	N/A
VEGETATION	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	N/A
MARSH WETLAND	WET	N/A
TREE	ି	N/A
TREE PROTECTION	N/A	()
FIBER ROLL	N/A	
EROSION CONTROL FABRIC	N/A	
TEMPORARY ACOUSTIC BARRIER FENCE	N/A	AB
TEMPORARY ENVIRONMENTAL PROTECTION FENCE	N/A	——————————————————————————————————————
SMHM VEGETATION REMOVAL AREA	N/A	
MAJOR CONTOUR	2.0	2.0
MINOR CONTOUR	0.5	0.5
GRADE BREAK	N/A	
FLOWLINE	· · · ·	
STAGING AREA	N/A	4 H H H H H H H H H H H H H H H H H H H
LEVEE AREA	N/A	

THESE NOTES HIGHLIGHT SOME OF THE KEY REQUIREMENTS FROM THE

PLANS, SPECIFICATIONS, PERMITS, AND OTHER CONTRACT DOCUMENTS.

SPECIFICATIONS AND PROVIDE ADDITIONAL PROJECT INFORMATION. THE

CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS CONTAINED IN THE

THE LOCATION OF EXISTING UTILITIES KNOWN TO THE OWNER ARE SHOWN IN

THEIR APPROXIMATE LOCATION BASED ON INFORMATION AVAILABLE AT THE

AND NUMBER OF UTILITIES MAY DIFFER FROM THAT SHOWN, AND UTILITIES OR

TIME THE DRAWINGS WERE PREPARED. THE ACTUAL LOCATION, SIZE, TYPE,

PROTECT ALL EXISTING UTILITIES WHETHER SHOWN OR NOT SHOWN ON THE

THE CONTRACTOR SHALL EXPOSE ALL UNDERGROUND FACILITIES THAT ARE

IMPROVEMENTS PRIOR TO THE COMMENCEMENT OF WORK IN THE VICINITY

CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS. IT

SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF

ANY DIFFERENCES IN LOCATIONS OF EXISTING UTILITIES SHOWN, OR ANY

IF ANY DAMAGE TO EXISTING UTILITIES OCCURS. THE CONTRACTOR SHALL

THE SITE INCLUDES OVERHEAD POWER LINES. EXERCISE CAUTION WHEN

FOR BURIED UTILITY INFORMATION AT LEAST 48 HOURS IN ADVANCE OF

NOTIFY THE OWNER AND SHALL REPAIR THE DAMAGE AS DIRECTED BY THE

WORKING AROUND EXISTING ELECTRICAL LINES. COMPLY WITH ALL SAFETY

THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (800-227-2600)

CONFLICTS WITH THE DESIGN THAT BECOME APPARENT DURING

CONSTRUCTION, BEFORE CONTINUING WORK IN THAT AREA.

OWNER AT NO ADDITIONAL COMPENSATION.

REGULATIONS AND REQUIREMENTS.

BEGINNING WORK.

IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES BETWEEN EXISTING

OF FACH UNDERGROUND UTILITY CONTRACTOR SHALL NOTIFY THE OWNER

UNDERGROUND FACILITIES MAY BE PRESENT THAT ARE NOT SHOWN.

TO BE CONNECTED TO OR THAT ARE IN THE PATH OF THE PROPOSED

8. RWQCP SHUTDOWNS SHALL BE COORDINATED WITH THE CITY PER SPECIFICATIONS SECTION 01 14 00 - WORK RESTRICTIONS

9. THE CONTRACTOR SHALL PREPARE AND SUBMIT FAA FORM 7460-1, NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION, TO THE FAA FOR ANY EQUIPMENT TALLER THAN 25 FEET. SEE SPECIFICATIONS SECTION 01 14 00 -WORK RESTRICTIONS.

EXISTING

N/A

N/A

N/A

SUBGRADE (PROFILE AND

CUT MATERIAL (PROFILE AND

FILL MATERIAL (PROFILE AND

NATIVE FINE MATERIAL

NATIVE COARSE MATERIAL

SUBSURFACE TREATMENT

I EVEE BERM MATERIAL

ROADWAY WORK AREA

TREATMENT ZONE FINE MATERIAL

TREATMENT ZONE COARSE MATERIAL

SECTION

SECTION)

SECTION) NATIVE MATERIAL

MATERIAL

SAND FILTER

TRAIL SURFACE

WOOD FENCE

SECTION)

SECTION)

BOX SIGN

TREATMENT ZONE

BIORETENTION SOIL

EFFLUENT DISTRIBUTION

EXISTING GRADE (PROFILE AND

DESIGN GRADE (PROFILE AND

SITE ACCESS

- 10. THE FOLLOWING PROJECTS WILL BE OCCURRING WITHIN THE RWQCP AT THE SAME TIME AS THE PROJECT CONSTRUCTION: SECONDARY TREATMENT UPGRADES PROJECT AND LOCAL ADVANCED WATER PURIFICATION FACILITY. COORDINATE WITH THE RESIDENT ENGINEER ONE WEEK PRIOR TO ANY OVERLAPPING WORK WITH THE ABOVE DEFINED PROJECTS.
- 11. COORDINATE WITH THE RESIDENT ENGINEER FOR ACCESS TO RWQCP.
- 12. CONTRACTOR SHALL MAINTAIN MINIMUM ONE LANE OPEN ON EMBARCADERO ROAD AND HARBOR ROAD AT ALL TIMES DURING CONSTRUCTION.

TOPOGRAPHIC DATA

- 13. ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88). HORIZONTAL CONTROL IS CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE 3, NORTH AMERICAN DATUM 1983 (NAD83, 2011), U.S. SURVEY FEET
- 14. ALL ELEVATIONS AND HORIZONTAL COORDINATES ARE IN FEET. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- 15. THE AERIAL PHOTO IS BASED ON USGS EARTH EXPLORER DATABASE, PREPARED BY NORTHROP GRUMMAN, DATED FEBRUARY 20 TO 24, 2015.
- 16. EXISTING TOPOGRAPHY IS SANTA CLARA COUNTY 2020 LIDAR, CAPTURED BY THE SANBORN MAP COMPANY, INC. IN APRIL 2020. SUPPLEMENTAL TOPOGRAPHIC DATA PROVIDED BY ESA (JUNE 2021).
- 17. ELEVATIONS ARE APPROXIMATE AND PROVIDED FOR GENERAL REFERENCE ONLY. THE ACCURACY OF THE ELEVATION CONTOURS IS LIMITED BY

DISTORTION DUE TO EXISTING VEGETATION.

- 18. EXISTING GRADES MAY HAVE CHANGED SINCE TIME OF SURVEY, FOR EXAMPLE DUE TO SUBSIDENCE AND CONSOLIDATION.
- 19. THE CONTRACTOR SHALL PERFORM PRE-CONSTRUCTION SURVEYS, SITE INVESTIGATIONS, ESTIMATE QUANTITIES AND INCLUDE SUFFICIENT CONTINGENCY IN ITS BID TO COVER TOPOGRAPHIC AND BATHYMETRIC VARIABILITY.

ENVIRONMENTAL PROTECTION

- 20. REGULATORY PERMITS: OWNER HAS OBTAINED PERMITS FROM RESOURCE AGENCIES FOR THIS PROJECT. COMPLY WITH ALL PERMIT REQUIREMENTS FOR THE PROTECTION OF WATER QUALITY, WILDLIFE AND VEGETATION.
- 21. CONTRACTOR SHALL OBTAIN ALL OTHER PERMITS NOT PROVIDED BY OWNER.
- 22. COMPLY WITH ALL SCHEDULE RESTRICTIONS INCLUDED IN PROJECT PERMITS. INCLUDING REQUIREMENTS FOR THE PROTECTION OF NESTING BIRDS. PROTECTED FISH AND OTHER WILDLIFE SEE SHEET G06 AND SPECIFICATIONS SECTION 01 57 19 - TEMPORARY ENVIRONMENTAL CONTROLS AND PROJECT PERMITS FOR COMPLETE REQUIREMENTS.
- 23. CONTRACTOR SHALL PREPARE AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY THE STATE WATER RESOURCES CONTROL BOARD. INCORPORATE SEDIMENT CONTROL AND EROSION CONTROL MEASURES TO PREVENT EROSION, SEDIMENT, AND HAZARDOUS MATERIALS RUNOFE FROM THE CONSTRUCTION SITE SEE SHEET C16 AND SPECIFICATIONS SECTION 01 57 19 - TEMPORARY ENVIRONMENTAL CONTROLS FOR COMPLETE REQUIREMENTS.
- 24 ELIMINATE OR MINIMIZE NON-STORM DISCHARGE FROM THE CONSTRUCTION SITE TO THE BAY AND ALL OTHER WATER BODIES, INCLUDING GROUNDWATER.
- 25. STORE AND USE ALL MATERIALS THAT COULD CAUSE WATER POLLUTION (I.E. MOTOR OIL, FUELS, PAINTS, ETC.) IN A CONTAINED AREA THAT WILL NOT CAUSE ANY POLLUTION. REMOVE ALL DISCARDED MATERIAL AND ANY ACCIDENTAL SPILLS AND DISPOSE AT AN APPROVED DISPOSAL SITE.

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	BLDG	BUILDING		NIC	NOT IN CONTRA	СТ	
	CONC	CONCRETE		PCC	PLAIN CEMENT O	CONCRETE	А
	CLSM	CONTROLLED L	OW-STRENGTH	OVHD / OH	OVERHEAD UTIL	ITIES	
		MATERIAL		PIP	PROTECT IN PLA	CE	
	DBH	DIAMETER AT B	REAST HEIGHT	RCP	REINFORCED CO	NCRETE PIPE	
	DG	DESIGN GRADE		RW	RECLAIMED WAT	ER	Н
	D/S	DOWNSTREAM		RWQCP	REGIONAL WATE	R QUALITY	
	(E)	EXISTING			CONTROL PLAN	Г	
	EG	EXISTING GRAD	E	CP	SURVEY CONTR	OL POINT	
	EL	ELEVATION		SD	STORM DRAIN		в
	EFF	EFFLUENT		SS	SANITARY SEWE	R	
	F/L	FLOWLINE		TYP	TYPICAL		
	G	GAS		U/S	UPSTREAM		
	HDPE	HIGH-DENSITY I	POLYETHYLENE	W	WATER		
	INV	INVERT		WM	WATER METER		
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			SECTION OR [DETAIL APPE	ARS		D
26.	CONSTRUCT	ION EQUIPMENT	SHALL BE STOR	ED, REFUEL	ED, AND MAINTAIN	NED	
	IN DESIGNAT	ED STAGING ARI	EAS.				
27.					ED. AT MINIMUM,		
	SITE.	VE WORK AREAS	TO PREVENT V	ISIBLE DUST	FROM LEAVING T	HE	
FAR	THWORK AND	WATER MANAG	EMENT				
		T INVOLVES EXC		SPORT AND	PLACEMENT OF		
20.			,		N TIDAL WATERS		
29.					HEELED SCRAPE	RS	
					EAS EXCAVATED WORK MAY REQU	IRE	E
	USE OF LOW	GROUND PRESS	URE EQUIPMEN	IT AND/OR US	SE OF CRANE MAT		
		CTOR SHALL DE					
30		R IS RESPONSIB					
50.	QUANTITIES.	APPROXIMATE E	ARTHWORK QU		E PROVIDED FOR		Н
		R'S REFERENCE	-				
31.		CTOR IS RESPO			IAGEMENT ORK FROM TIDAL		
	WATERS. DE	WATER AS REQU	IRED FOR LEVE	E SUBGRADE	E CONSTRUCTION		
		VISE DEEMED NE			FFICIENTLY	1	F
	PHASING.						
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		11	12		13		

DESIGN NOTES

1

OVERALL DESIGN OBJECTIVES

1. IMPROVE HABITAT ALONG THE PERIMETER OF HARBOR MARSH

- 2. ADAPT TO SEA LEVEL RISE BY PROVIDING A TRANSITIONAL SLOPE THAT PROVIDES TRANSGRESSION SPACE FOR UP TO THREE FEET OF SEA LEVEL RISE
- 3. REDUCE FLOOD RISK BY INTEGRATING A HORIZONTAL LEVEE ON THE OUTBOARD SIDE OF A TRADITIONAL FLOOD CONTROL LEVEE PROVIDING WIND-WAVE ATTENUATION AND VEGETATIVE EROSION PROTECTION FOR THE FLOOD CONTROL LEVEE CORE.
- 4. PROVIDE POLISHING TREATMENT TO DISCHARGED TREATED WASTEWATER.

2

5. MAINTAIN PUBLIC ACCESS TO THE EXISTING TRAIL SYSTEM.

HORIZONTAL LEVEE EFFLUENT PIPELINE

1. DESIGN FLOW

- a. MAXIMUM FLOW = 59,500 GPD
- b. MINIMUM FLOW = 5,000 GPD
- 2. FUTURE FLOW

a. MAXIMUM FULL BUILD OUT FLOW = 249,500 GPD

HORIZONTAL LEVEE FLOW OPERATION

1. CONT	ROL SCHEDULE:
---------	---------------

SETPOINT	VALUE	UNIT
FLOW	100	GPM
VALVE MINIMUM OPEN	10	%
VALVE MAXIMUM OPEN	100	%

2. DAILY RUNTIME SCHEDULE

MONTH	MIN DAILY FLOW	MIN DAILY VALVE OPEN*	EST MAX DAILY FLOW	EST MAX DAILY VALVE OPEN*	EST MAX DAILY FLOW INTERVAL
	GPD	HOURS	GPD	HOURS	(EVERY X DAYS)
OCTOBER	6,700	1.1	7,900	1.3	6
NOVEMBER	5,000	0.8	29,700	5	5
DECEMBER	8,400	1.4	51,600	8.6	4
JANUARY	11,700	2	56,400	9.4	3
FEBRUARY	15,000	2.5	59,800	10	3
MARCH	16,700	2.8	52,200	8.7	4
APRIL	16,700	2.8	32,100	5.4	5
MAY	15,000	2.5	19,700	3.3	6
JUNE	13,400	2.2	14,900	2.5	7
JULY	11,700	2	11,700	2	7
AUGUST	10,000	1.7	11,600	1.9	7
SEPTEMBER	8,400	1.4	9,900	1.7	7

*ASSUMES VALVE OPENS TO 100 GPM

3. CONTROL AT HORIZONTAL LEVEE TREATMENT ZONE

5

a. FLOWS TO EACH ZONE ADJUSTED MANUALLY AT A MONTHLY BASIS

7

8

9

10

b. NUMBER OF ZONES = 4

RENZEL MARSH PUMP

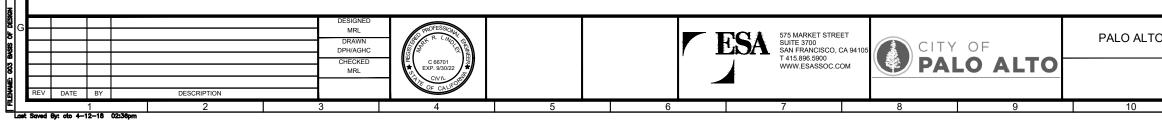
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1. MAXIMUM FLOW = 3 MGD

2. TYPICAL OPERATION FLOW = 1.0 TO 1.5 MGD

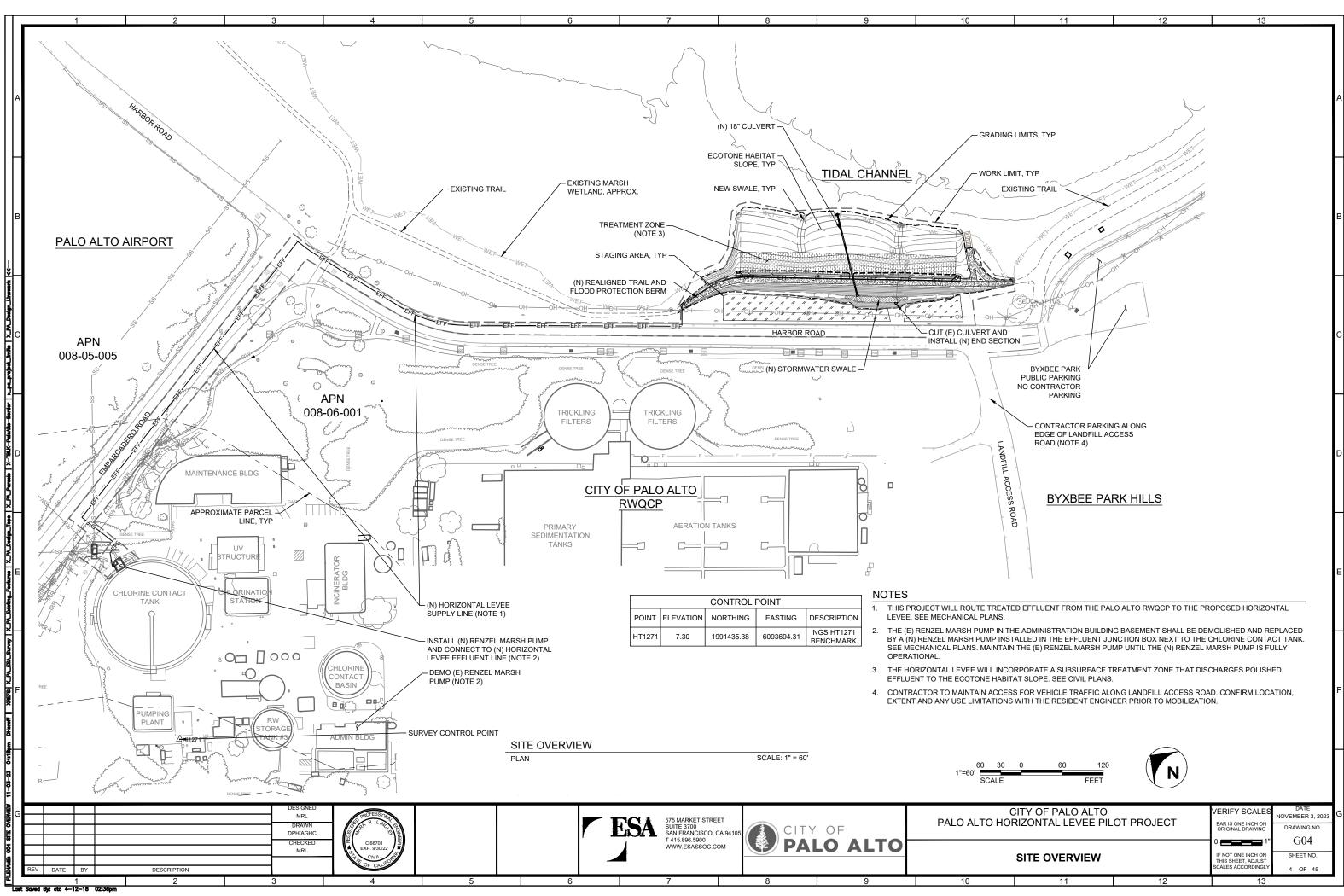
3. PUMP OPERATION CHARACTERISTICS

PARAMETER	VALUE
Primary Point at Full Speed (gpm @ TDH)	1,200 @ 19.3 ft
NPSHa at Primary Point	36 feet
Maximum Capacity at Full Speed (gpm @ TDH)	1,600 @ 8 ft
Minimum Capacity at Full Speed (gpm @ TDH)	200 @ 42 ft
Secondary Point at Reduced Speed (gpm @ TDH @ rpm)	650 gpm @ 12.5 ft @ 1,150 rpm
NPSHa at Secondary Point	30 feet
Minimum Shutoff Head	55 ft
Maximum Synchronous Speed	1,800 rpm
Pump Drive Type	Adjustable Speed
Minimum Operating Speed	1,100 rpm
Motor Horsepower	10 HP
Required minimum efficiency at Primary Point	54% (Wire-to-Water Efficiency)
Minimum Solids sphere passage	3 inches
Minimum Size Suction x Discharge (inches)	6 x 6
Discharge pressure gauge range	0 to 30 psig



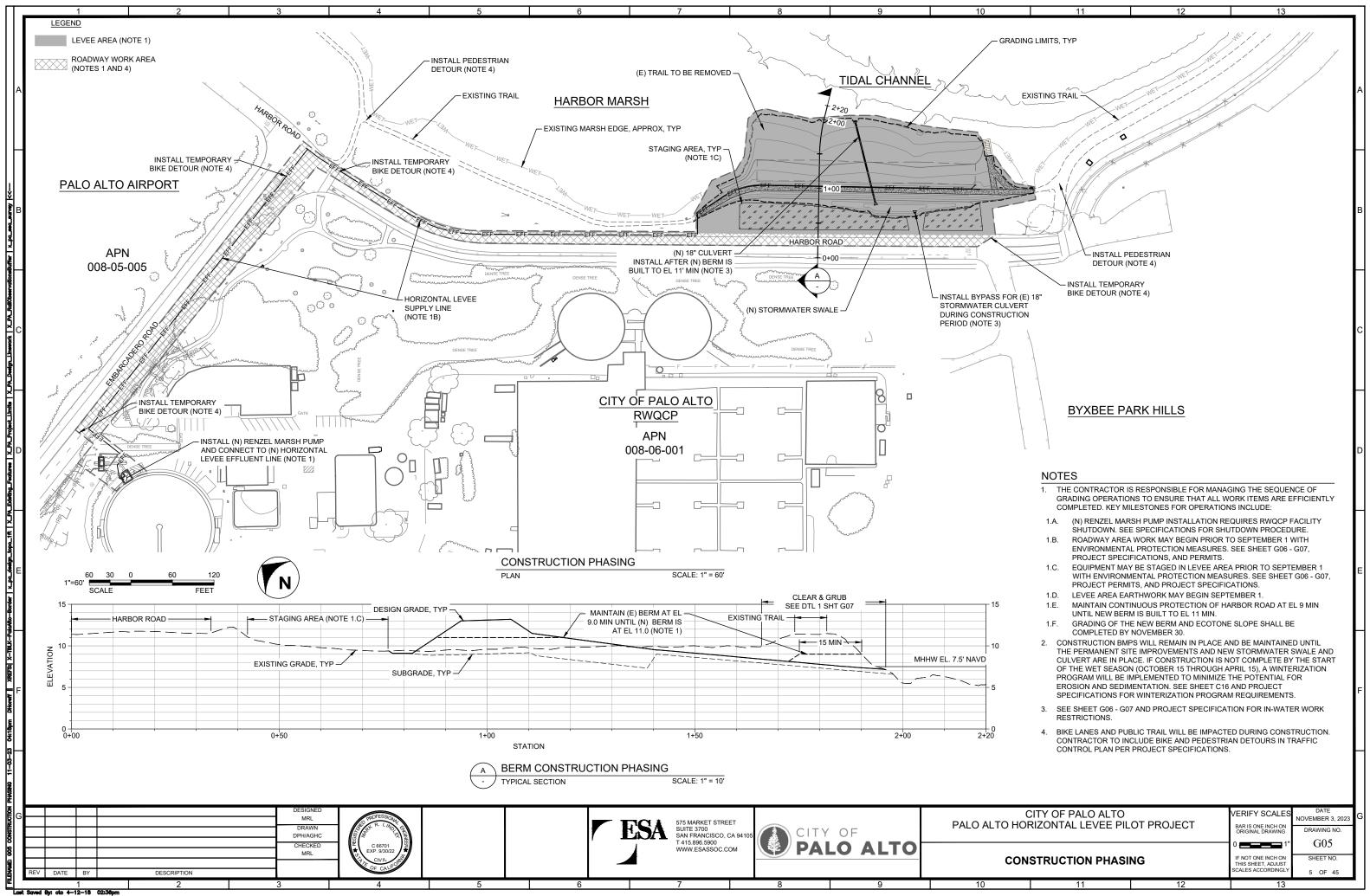
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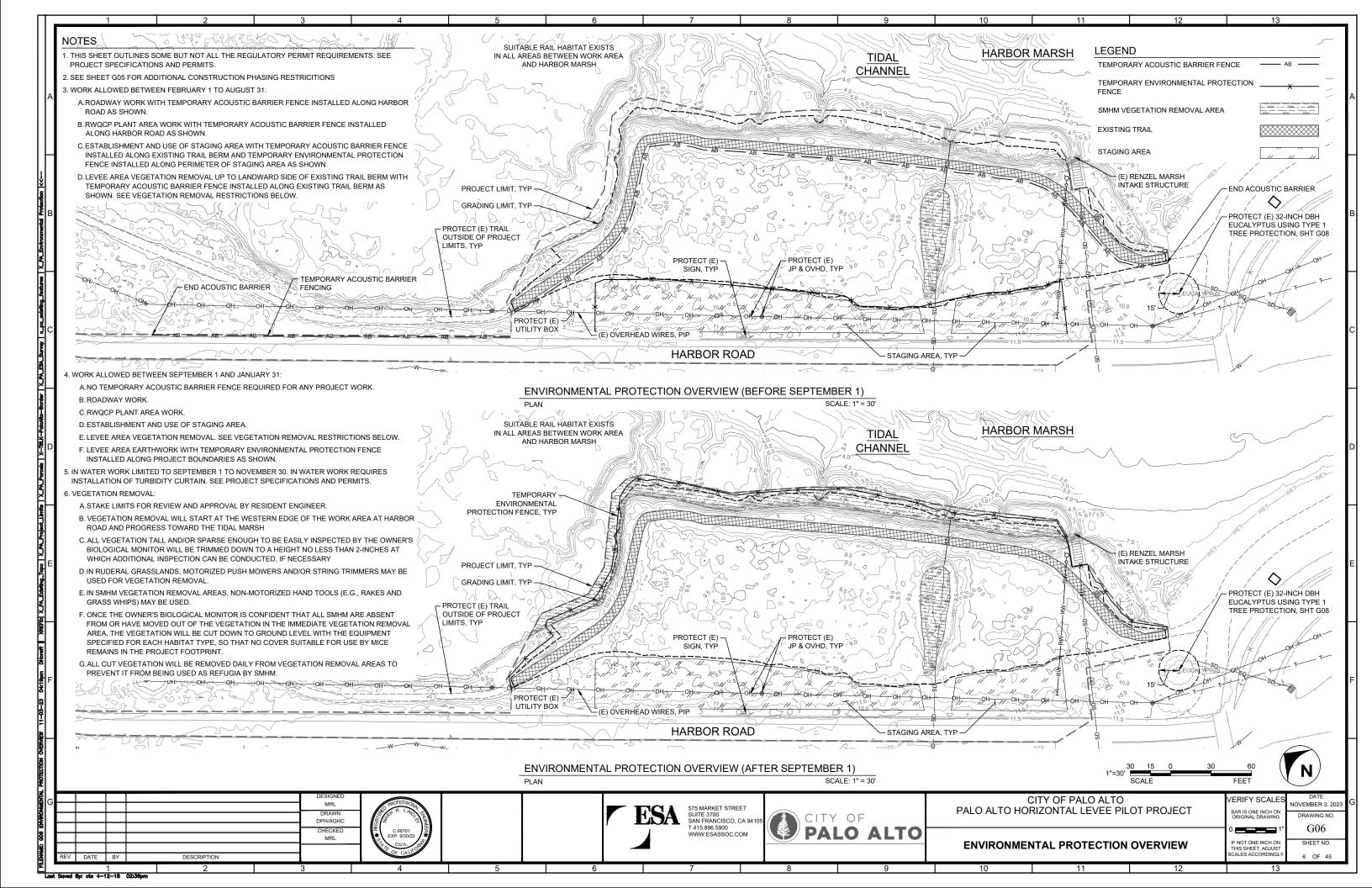
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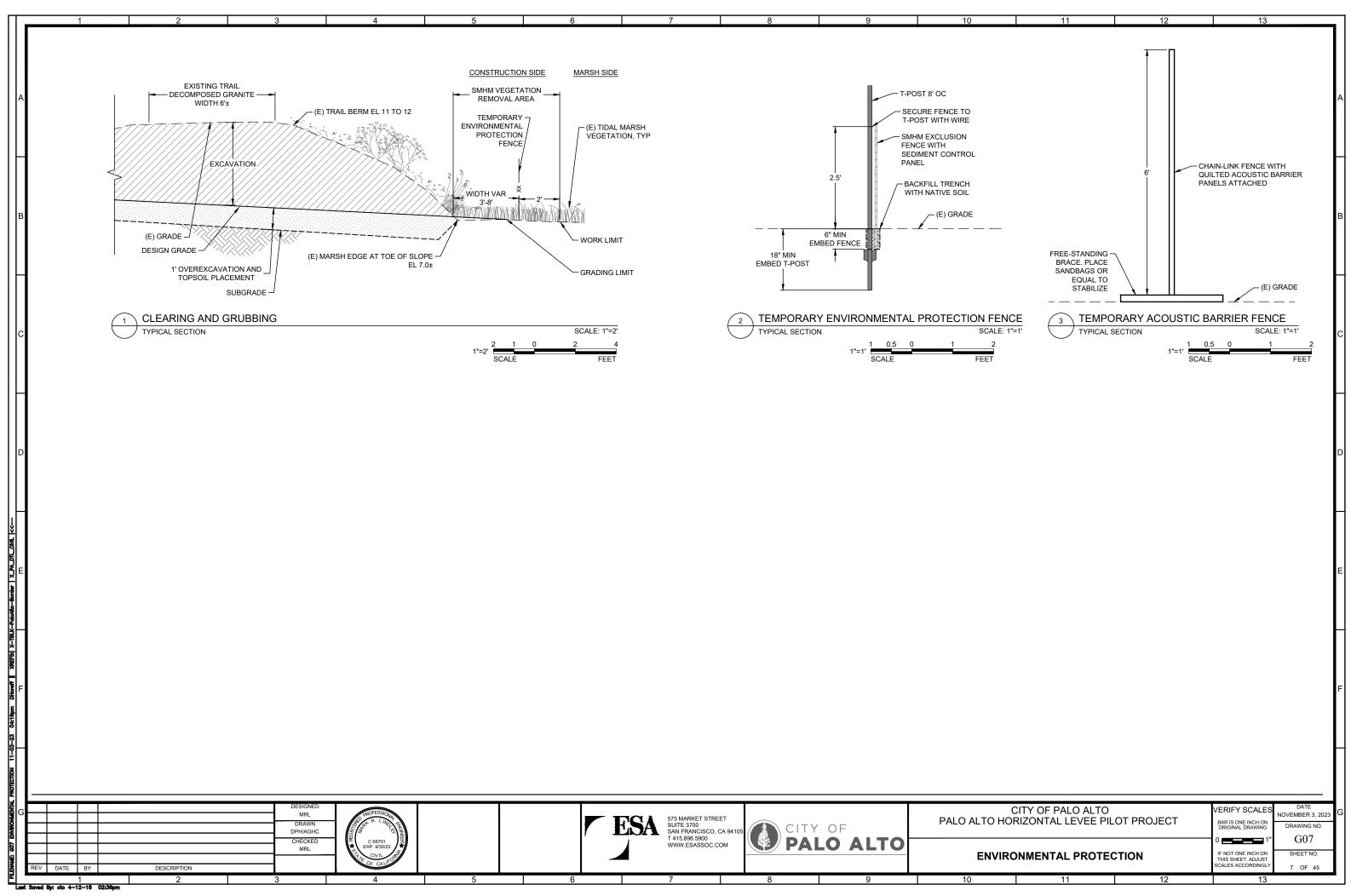


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CITY OF PALO ALTO HORIZONTAL LEVEE PIL	VERIFY SCALES	DATE NOVEMBER 3, 2023	G	
D HORIZONTAL LEVEE FIL	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.		
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SITE OVERVIEW		IF NOT ONE INCH ON THIS SHEET, ADJUST	SHEET NO.	
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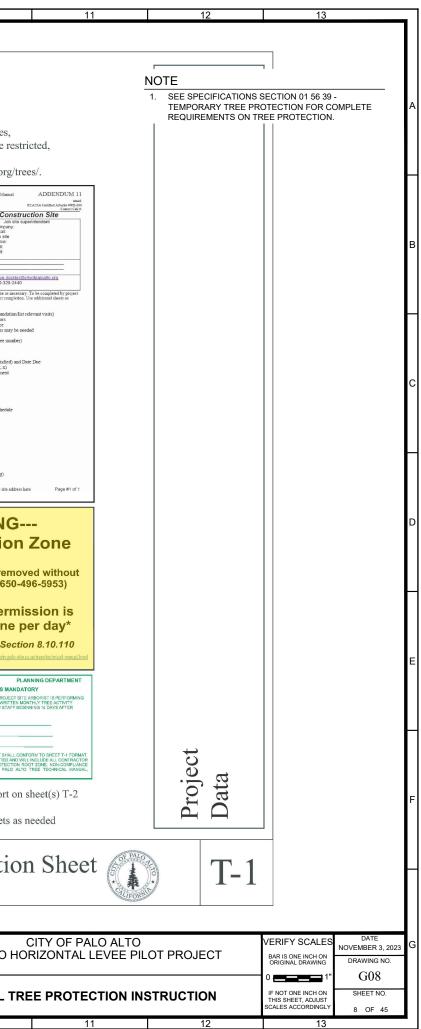






CITY OF PALO ALTO HORIZONTAL LEVEE PILOT PROJECT		VERIFY SCALES	DATE NOVEMBER 3, 2023	G
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	STEED SUCCESS PARTICIPATION CONCENTRATIONS CINCE DISCUSSION DETAILS CONCENTRATIONS CINCE DISCUSSION D	Tree Protectic Make sure you ures around trees are essential to protect them by keeping the il conditions in an intact and non-compacted state, and ident erwise approved. An approved tree protection report mu	T B City of Palo Alto D D T City of Palo Alto D D T City of Palo Alto D D City of Palo	by equipment, materials and activities rbance is permitted and activities are in the TPZ of a regulated tree . TTM) found at www.cityofpaloalto.or CryofPaloAboTreTechnicalMa ArboritFirm Data Here Total Content of the Content of the Content of the ArboritFirm Data Here Total Content of the Content of the Content of the spectron PaloAboTcA Content of the Content of the Content of the Content of the Content of the Content of the spectron PaloAboTcA Content of the Content of the Content of the Content of the Content of the Content of the spectron PaloAboTcA Content of the Content of the Content of the spectron PaloAboTcA Content of the Content of
A		Make sure yo	our crews and subs do the job right!	
	preserving roots and so unless othe	il conditions in an intact and non-compacted state, and ident erwise approved. An approved tree protection report mu	tifying the Tree Protection Zone (TPZ) in which no soil distur st be added to this sheet when project activity occurs with	rbance is permitted and activities are in the TPZ of a regulated tree.
	Planning Division, 250 Hamilton Avenue Palo Alto, CA 94301	tradict specifications are found in the Table Main Tere Technical Manual (TT 10) (www.clusgibalandusarg/trees)) Tree Protection 7 and et (TE2) adversiving input synchronizity and the state in the state of	CONTRACTOR & ARBORIST INSPECTION SCHEDULE	Arborist Firm Data Here Monthly Tree Activity Report- Co
в	property, and that they be shown on approved site plans. A completed disclosure statement must accompany all building permit applications that include exterior work, all demolition or gracing permit applications, or other development activity.	Type 1 Tree Protection Mark a datability for a statistic for	1. M Inspection of Protective Tree Fencing. For Public Trees, the Street Tree Verification Form shall be signed by the City Arborist. For Protected Trees, the project site aborist shall provide an initial Monthy Tree Activity Report from with a photograph verifying that he has conducted a field inspection of the trees and that the correct type of protective fencing is in place around the designed tree protections zone (TZP) proto is usuance of a dominibing, and fuely constrained the protection zone (TZP) proto is usuance of a dominibing, and fuely or building permit.	Palo Allo, CA Palo Allo, CA Contact Information Office Main Also Also Also Also Also Also Also Also
	[Sections 1- 4 MUST be completed by the applicant. Please circle and/or check where applicable.] 1. Where are the trees? Check flose that apply. (Plans must be submitted showing over 4" diameter trees)	written verification Type I is installed correctly	2. [∞] Pre-Construction Meeting. Prior to commencement of construction, the applicant or contractor shall conduct a pre-construction meeting to discuss tee protection with the job site superintendent, grading operators, project site a abovici, (city Abovict, and, if a city maintained ungation system is involved, the Parks Manager (Contact 650-496-6962).	Distribution: 1. City of Palo Alto Attn: Dave Dave. 2. Others Others Provide the regested minimum information with each report, customize
	In the day painter step or repliced-way easement within 50 of property line (street (rees) ² *Steet trees require special protection by a functed enclosure, per the attacked instructions. Prior to reactiving any permit, you must provide an authorized Stee Three Potoction Vorification from by calling Public Works Operations at 493-5933 for inspection of required type I, II of III fencing (see attached Detail (605).	The II The Protection	performs an impection during the course of rough grading or theteching adjacent to or within the TPZ to ensure three will not be injured by comparison, our or bill, dramage and trancing, and if required impect ateration systems, then wells, drains and special paying. The contractor shall provide the project arborist at least 24 hours advance notice of such activity.	 a. Pre-construction meeting requirement with sub-contactors b. Inspect to verify that tree protection measures are in place c. Determine if field adjustments, watering or plan revisions 7 2. Field Observations (general site-wide and list by individual tree
c	Protected Tree (e) Beneficial for the property Grant or or workinging the property S. Is there activity or proding within the displaye? (radius 10 times the trunk diameter) of these trees? VES VID		menthly activity impection to monitor and advise on conditions, tere health and retention or, immediately if there are any revision to the approved plane or protection measures. The Tree Technical Manual Monthly Tree Activity Report format shall be used and sent to the Planning Dept. Isadecage review util from later than 14 days after issuance of Vuoliding premit date. Facts (650) 329- 2154. (See TTM, Monthly Tree Activity Impection Report, Addendum 11 & section 1.17).	b. Terenching lassivall occur Action liens (list site-wide, by tree number and date to be satisfit Tiree Protection Fence (TFP) needs adjusting (tree # x, x, x) Root zone buffer material (wood chips) can be installed are Schedule seven trends, foundation dig with
	4. Are the She Plan Requirements** completes? □YES □NO **Protection of Regulated rece during development require the following: (1) Plans must show the measured trutk duringter and europy displane; (2) results in the during of the show the start of the show the	States of Orage Tatlet, Pence 3.net Total Sector 2010 2.net Total Sector 2010	requires the direct onsite supervision of the project arborist (see TTM, Trenching, Excavation & Equipment, Section 2.20 C). 6. □ Landscape Architect Inspection. For discretionary development projects, prior to temporary or final occupancy the applicant or constractor shall arrange for the Landscape Architect to perform an	5. Tree Location Map (mandatory 8.5 x 11 sheet)
	the undersigned, agree to the conditions of this disclosure. I understand that browingly or negligently providing failse or misleading information in response to this disclosure requirement constitutes a violation of the Palo Alto Municipal Code Section 8.10.440, which can lede to criminal and/or violitegal action. Signature: Print: Date:	The send and your provide a Poster Wester Operations These fencings is required and shall be exected before demolition, grading or construction begins.	Quality, Section 5.20,1 A) and that the irrigation is functioning consistent with the approved construction plant. The Planning DepL handbaces preview valid fails be in receipt of written verification of Landscape Architect approval prior to scheduling the final inspection, unless otherwise approved.	• Respectfully submitted,
	<u>EOR STAFF USE:</u> <u>Protective Fencing</u> Sections 5-6 must be completed by staff for the issuance of any development permit (denotition, grading or building permit). Sections 5-6 must be completed by staff for the issuance of any development is attached verifying that protecting is concident in place around protected and/or designated trees. (ViA of three are on protected trees, once here = (ViA of three are on protected trees, once here = (ViA of three are on protected trees, once here = (ViA of three are on protected trees, once here = (ViA of three are on protected trees, once here = (ViA of three are on protected trees, once here = (ViA of three are on protected trees, once here = (ViA of three are on protected trees, once here = (ViA of three are on protected trees, once here = (ViA of three are protected trees)	Inc Iv Duration Approved by: 6 If the second secon		Project site abroist Coopultant connet information (include ensail, cell#, and mailing) Cc: Enter Date CPA Monthly Tree Activity Report: Type in
D	6. <u>Street Trees</u> . A signed Public Works Sheet Tree Protection Verification form is attached	APPENDIX J PALO ALTO STREET TREE PROTECTION INSTRUCTIONS -SECTION 31-	City of Palo Alto Tree Department Pake Votes Operations Page Votes Data Alto A 9503 Page Votes Data Alto Alto Alto Alto Alto Alto Alto Alto	WARNIN Tree Protectio
	<u>bingr/www.dhyofpalath.org/plastific.org/pla</u>	 The protoction has there protocy functions, [1] is keep the follogic energy and bracking structure clar- from secance type approximation in the advisory. (2) is present ones and set collabolism is an intert and new composed size and 5) as density the Trace Tracesias Zeros (TPZ) is which no soil disturbance is permitted and activities are restricted, mains claritoring approximation. The Trace Tracesticae Zone (TPZ) is a variately area suppart to the type which are soil disturbance in the advanced or the test's mains and the validation in proton and the solution of the structure. Beforess Descuration Deal of St. Blustration of distalenes does the low. 	Applicant Instructions: Complete upper proton of this form. Mail or FAX this form along with algored Time Dickobary Statement IP halfs Works Dept. Public Works They Statif will happed and notify applicant. APPLICATION DATE: ADDRESSLICACINO P STREET TREES TO BE PROTECTED: APPLICANT'S NAME:	This fencing shall not be re City Arborist approval (6
1	City of Palo Atto 200 familion Avenue, Palo Ato, CA 94301 Sacri Strowse By Topic ✓ ⓓ Home > Planning & Community Environment	b. Tree Technical Manual (TIM) Forms (<u>improver, controlladio contress</u>) 1. Treading (incontrol 700 cr(1), Station 1, 200 cr) 1. Station (Station 1, 200 cr) 2. Size that Requirements (TL) <u>Station (L)</u> 4. Tree Directors Stations (<u>TL) Station (L)</u> 5. State Tree Verification (STV) Form (<u>improver, control station strategy</u> Strain) 13.1 Derontine	APPLCANT'S ADDRESS: APPLCANT'S ADDRESS: AFAX NUMBERS: A FAX NUMBERS: This section to be filled out by City Tree Staff This section to b	Removal without per subject to a \$500 fin
	Tree Technical Manual To purchase the Tree Technical Manual June, 2001 First Edition	 Type I Twe Protection: The finite ranks of the string T27 of the treefs in the protected throughout the East of the constraintion payors: I amount data genus, if finitum is the interest of a string a constraint that all the string the string the string the string through the string the string the string the string the string the balance Wests Operations. Type II Twe Protection: For two string thread and string the string thread and all of the string thread thread thread thread thread thread thread thread	presence. In Stype of protection used is Inspection Stype of protection Inspection Stype of protection Inspection: Data of Inspection:	*Palo Alto Municipal Code S City of Palo Alto Tree Protection Instructions are located at <u>http://www.city</u>
New York	Home View by section: City-owned Tracs - Table of Contents: (PDF, 87KB) ThitAtebranel Tracs - Table of Contents: (PDF, 87KB) Absorb the Trac - Intent and Purpose (POF, 105MB) Ordinance - Section 1.2.0 Profession of Trees During Construction (POF, 125MB) Table 8.10 - Section 7.2.0 Protection of Trees During Construction (POF, 125MB)	 tree well or elicectify place preg, that the surgeoid with 32-botto or iteming place in facing the block of the interplace of the block of the block of the interplace of the block of the b	2. The Sheat Trees at the above actions are NOT adoputinty protected. The following modifications are required: indicate how the required modifications were communicated to the applicant:	SPECIAL INSPECTIONS PARCE AND PROTECTION INSPECTIONS I PARCE AND PROTECTED TREES, CONTINUE ON SALE DEMAILS FROM REDURTS TO THE INSPECTIVA AND STER ANY TO AND SALE PROTECTION REPORTS TO THE PLANNING DEPARTMENT LANDSLAPE REVIEW ST BULDING PERMIT ISSUACE:
	Horitage Trees • Section 4.0 - Hazardous Trees (nor, 1058a) Forms • Section 5.0 - Tree Maintenance Guidelines (nor, 116Kb) Tows: Section 5.0 - Tree Maintenance Guidelines (nor, 116Kb) FAQS View ALL sactions: Contract Lis • Tree Technical Manual - Full (POF, 1.84Mb)	 Warming days. A warming input table weather provided promitedly deployed on each force at 20-best introvals. The big and the minimum 20, the initiation of the section 20 and 2	Subsequent Inspection Street trees in slove address were found to be adoptable (Inspection Inspection) Inspection Inspect	BUILDING PERMIT DATE: DATE OF 1 ⁴⁷ TREE ACTIVITY REPORT: OTTY STAFF: REPORTING DETAILS OF THE MONTHLY TREE ACTIVITY REPORT SI
Diform Diform	APPENDECS A. Jola Alto Municipal Code. Chapter 8:10, Tree Proservation & Management b: Tree Oby - USA C: ISA Hoard Evaluation Form D: List A Inseard Evaluation Form D: List of Interent Failure Patterns for Selected Species (Reference source) E; ISA Tree Pruning Cuddellines (PPF, 18946) F: Tree Cares Safety Standards, AMSH 2123,-12994 (Reference source)	 All acightent' trees that overlang the project site shall be presented from impact of any kind. The applicant shall be repearable for the rapia or replacement's plus petably of say publicly ownal trees that are dramped dramp for even or discretistican, parameter the site shall be of the lab Alos Mongoli and the site of the site shall be also be also for the site of the site shall be also be also for the site of the site	Date of Inspection: Notes: List City street trees by species, sile: condition and type of tree protection installater, Also note in (protection taken, Use back of sheet if necessary)	увяну тна тац тяве рогрестой мысяцияся акв имущиетие асточту в основное общо имосновное общо ими а тесе рого в заявлеет то учолтом ор раное в новое, перевеное ру section 200 лю довеном 11.
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INSTRUCTION 11-	Include this sheet(s) on Proje A copy of T-1 can be downlo		s needed) Special Tree Pro City of Palo Alto	otection Instruct
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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 truction 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 eather or when rain is forecast.
- $\hfill\square$ 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 EARTHMOVING & 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 berned 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.
- Call 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).



□ Schedule grading and excavation work during dry weather.

□ Stabilize all denuded areas, install and maintain temporary

□ Remove existing vegetation only when absolutely necessary,

Prevent sediment from migrating offsite and protect storm

Keep excavated soil on site and transfer it to dump trucks

□ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality

potential contamination and clearly mark them so they are

Protect stockpiled landscaping materials from wind and

rain by storing them under tarps all year-round

Stack bagged material on pallets and under cover

drain inlets, drainage courses and streams by installing and maintaining appropriate BMPs (e.g., silt fences, gravel

plant temporary vegetation for erosion control on slopes or

prosion controls (such as erosion control fabric or bonded

Grading and Earthwork

fiber matrix) until vegetation is established.

bags, fiber rolls, temporary swales, etc.)

on site, not in the streets.

Contaminated Soils

Abandoned underground tanks

• Buried barrels, debris, or trash.

not distrurbed by construction activities.

Control Board:

Landscaping

weather.

· Abandoned wells.

where construction is not immediately planned.

CONCRETE MANAGEMENT PAVING/ASPHALT **& DEWATERING** WORK

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 out concrete equipment/trucks offsite or in a

designated washout area, where the water will fl ow into a

BMP Handbook for properly designed concrete washouts.)

leach into the underlying soil. (See CASQA Construction

Reuse water for dust control, irrigation or another on-site

purpose to the greatest extent possible.

mporary waste pit, and make sure wash water does not

U Wash down exposed aggregate concrete only when the coat, slurry seal, fog seal, or similar materials wash water can (1) flow onto a dirt area; (2) drain onto a □ Collect and recycle or appropriately dispose of excess bermed surface from which it can be pumped and disposed abrasive gravel or sand. Do NOT sweep or wash it into of properly: or (3) block any storm drain inlets and vacuum gutters. washwater from the gutter. If possible, sweep first.

Sawcutting & Asphalt/Concrete Removal

Protect storm drain inlets during saw cutting. □ If saw cut slurry enters a catch basin, clean it up immediately.

contacting stormwater runoff.

Paving

- □ 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.
- Be sure to obtain a Permit for Construction in the Public Unusual soil conditions, discoloration, or odor. Street from Public Works Engineering before discharging water to a street, gutter, or storm drain. Call the Re Water Quality Control Plant (RWQCP) at (650) 329-2598 or an inspection prior to commencing discharge. Use filtration or diversion through a basin, tank, or sediment trap as required by the approved dewatering plan. □ If the above conditions are observed, document any signs of Dewatering is not permitted from October to April.

Dewatering

□ 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.



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

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Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet





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
- $\hfill\square$ 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

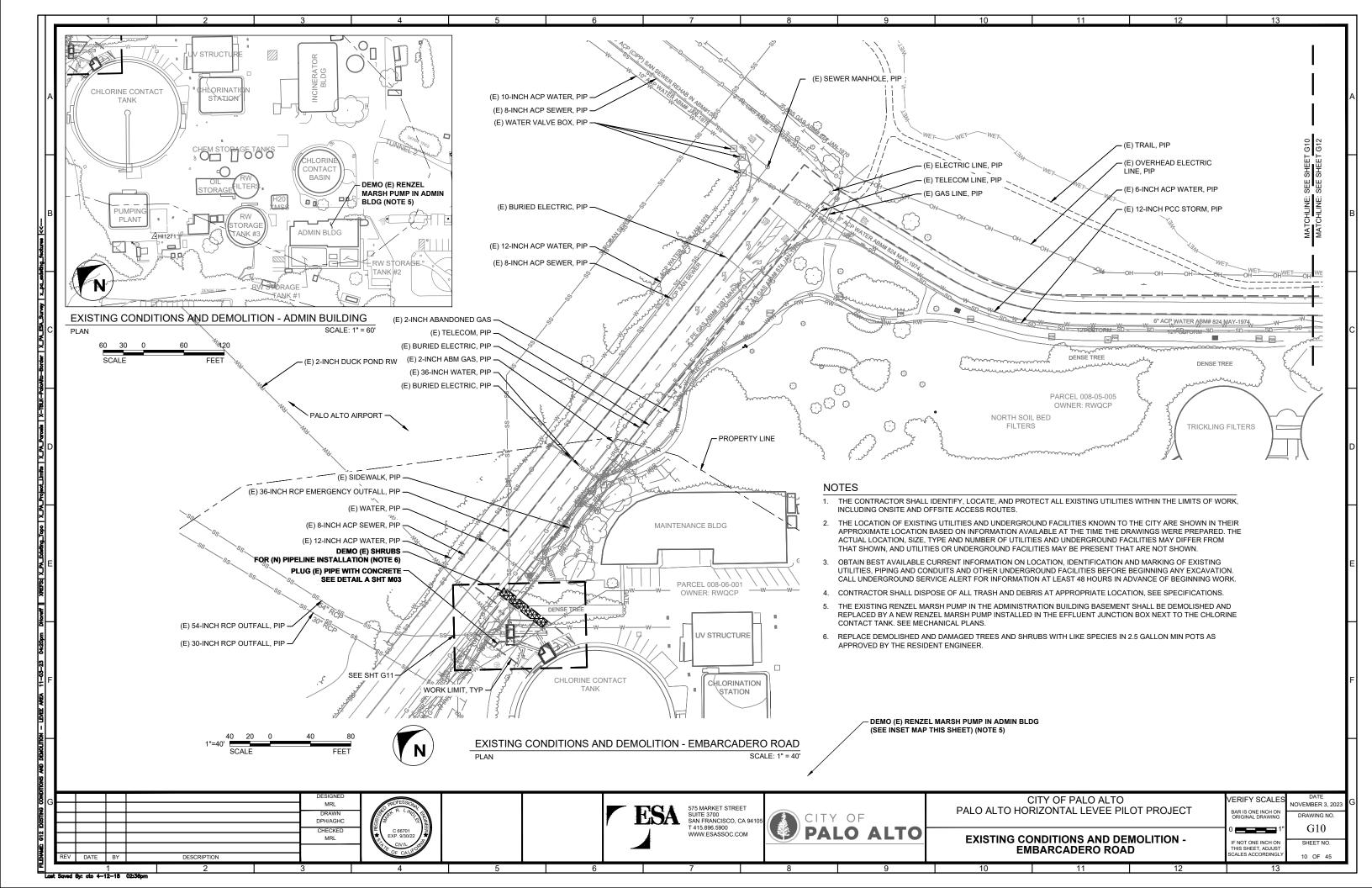
Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from

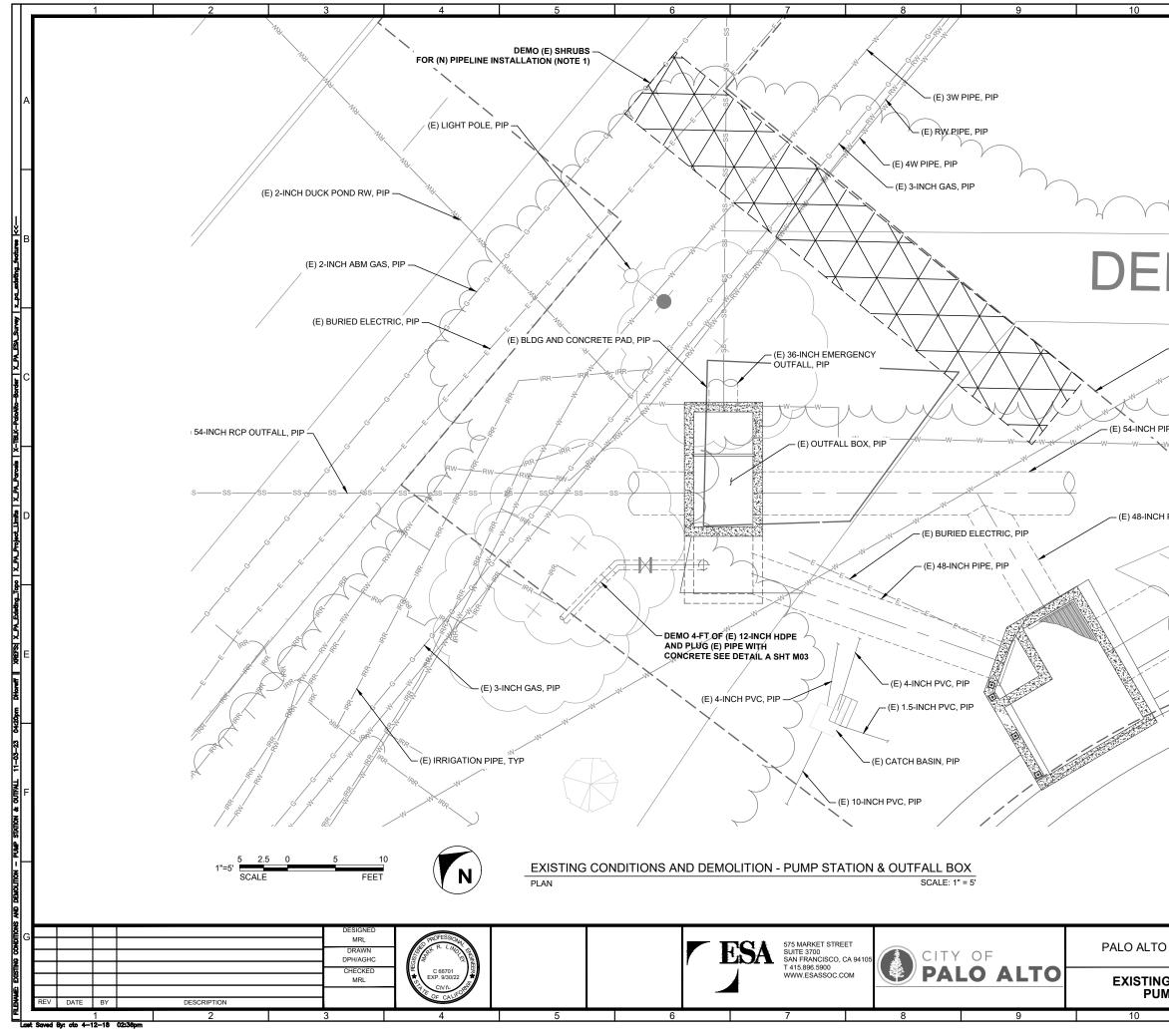
Cover storm drain inlets and manholes when applying seal

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

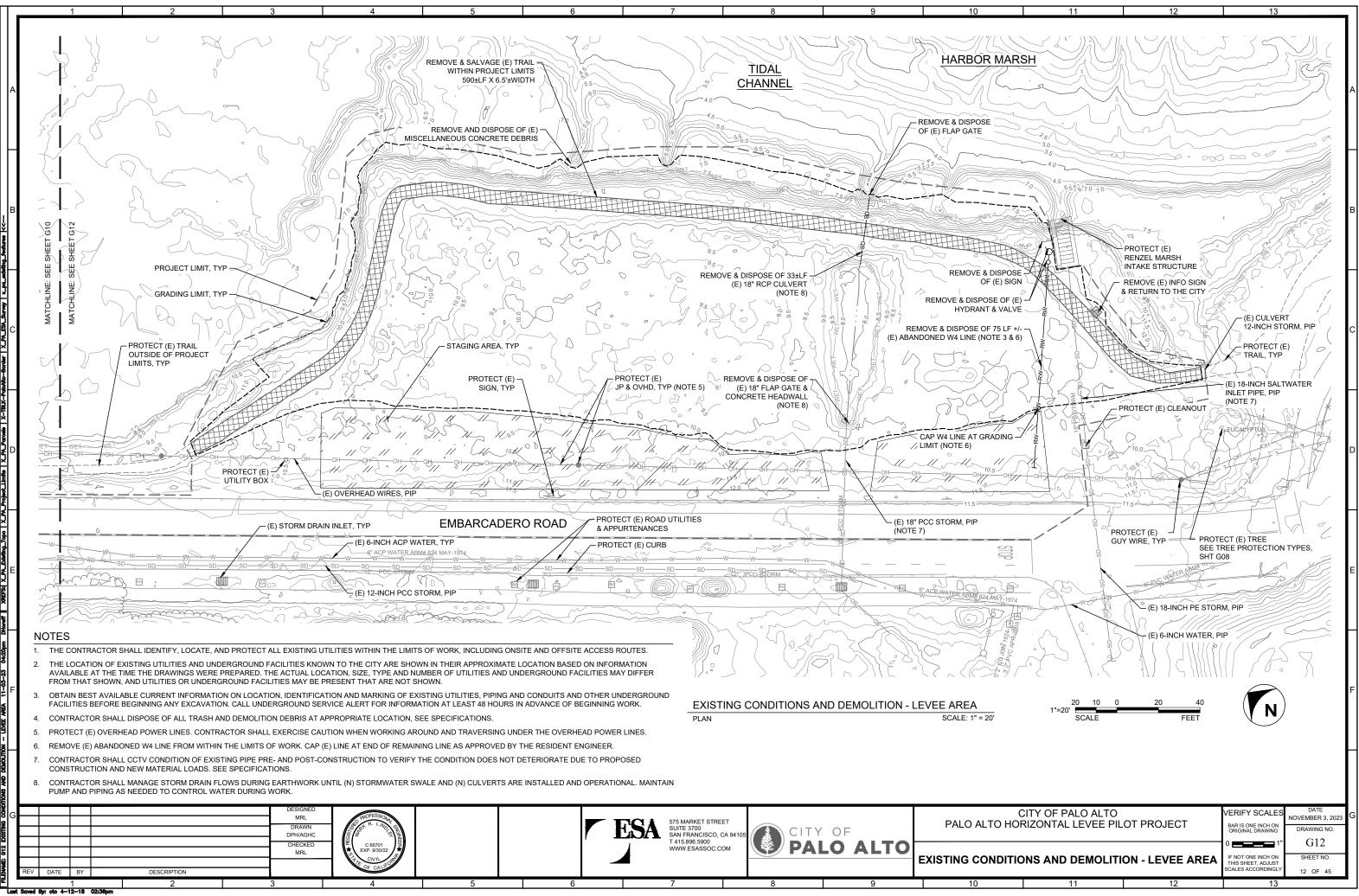


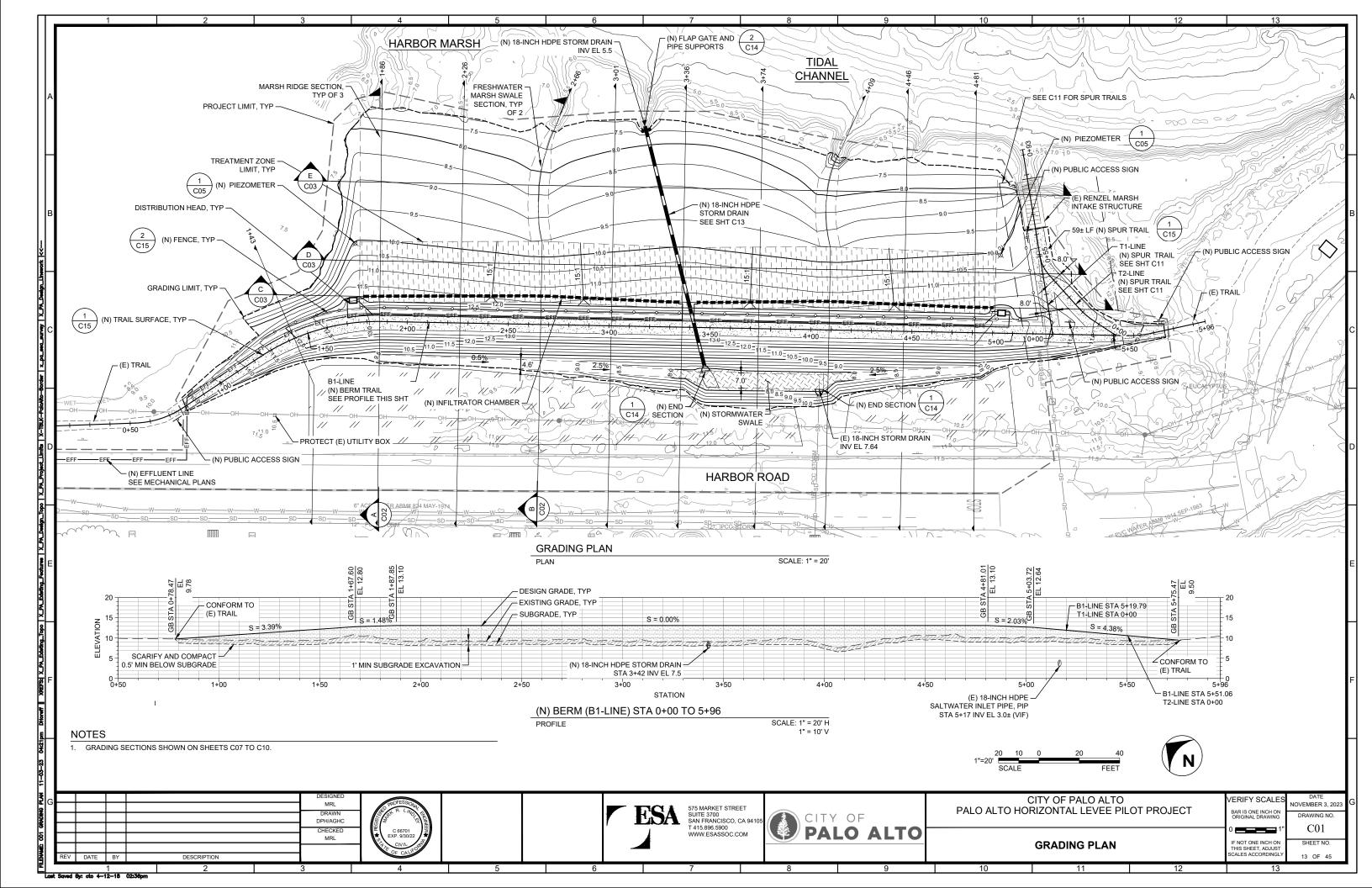
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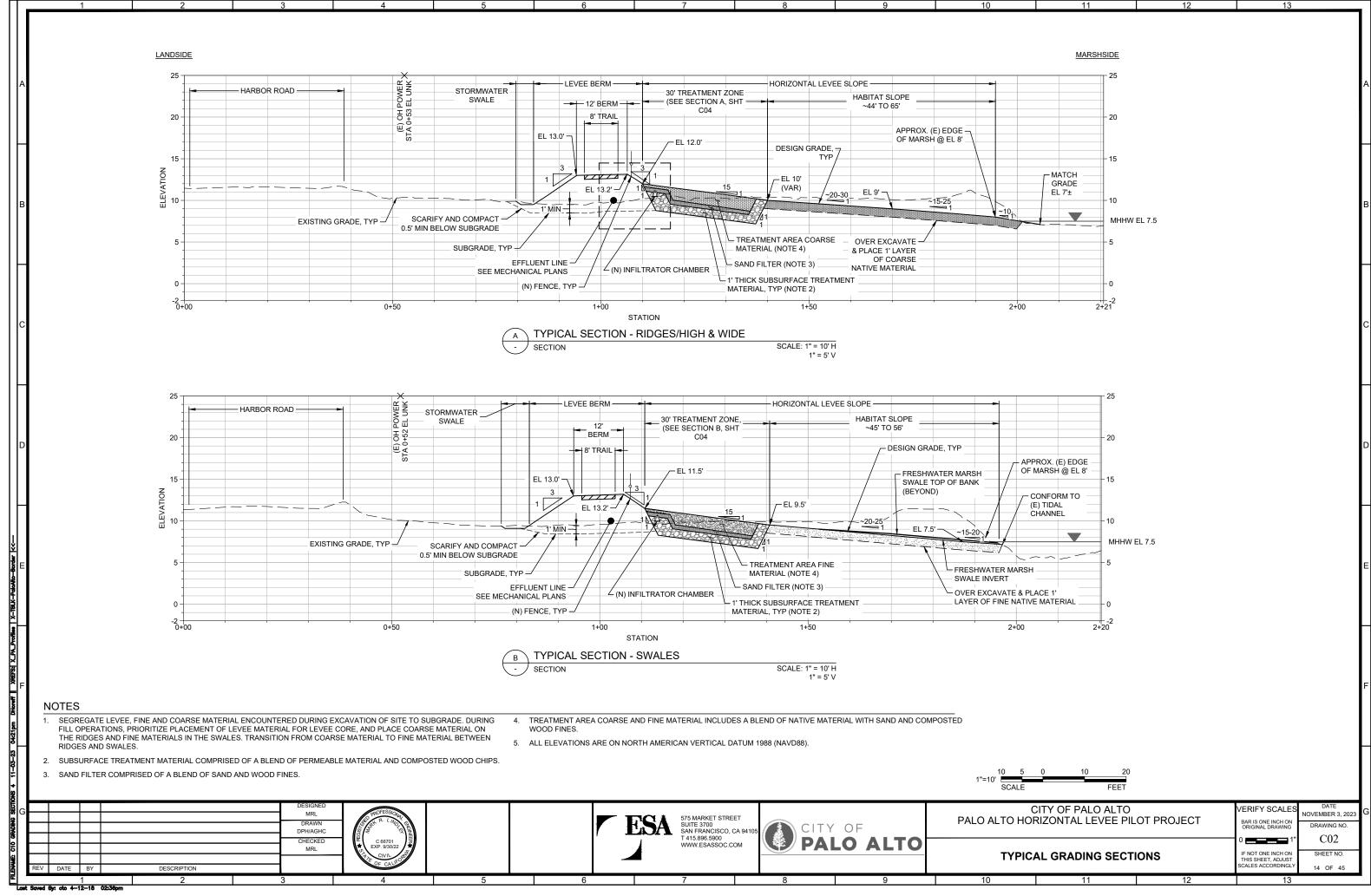




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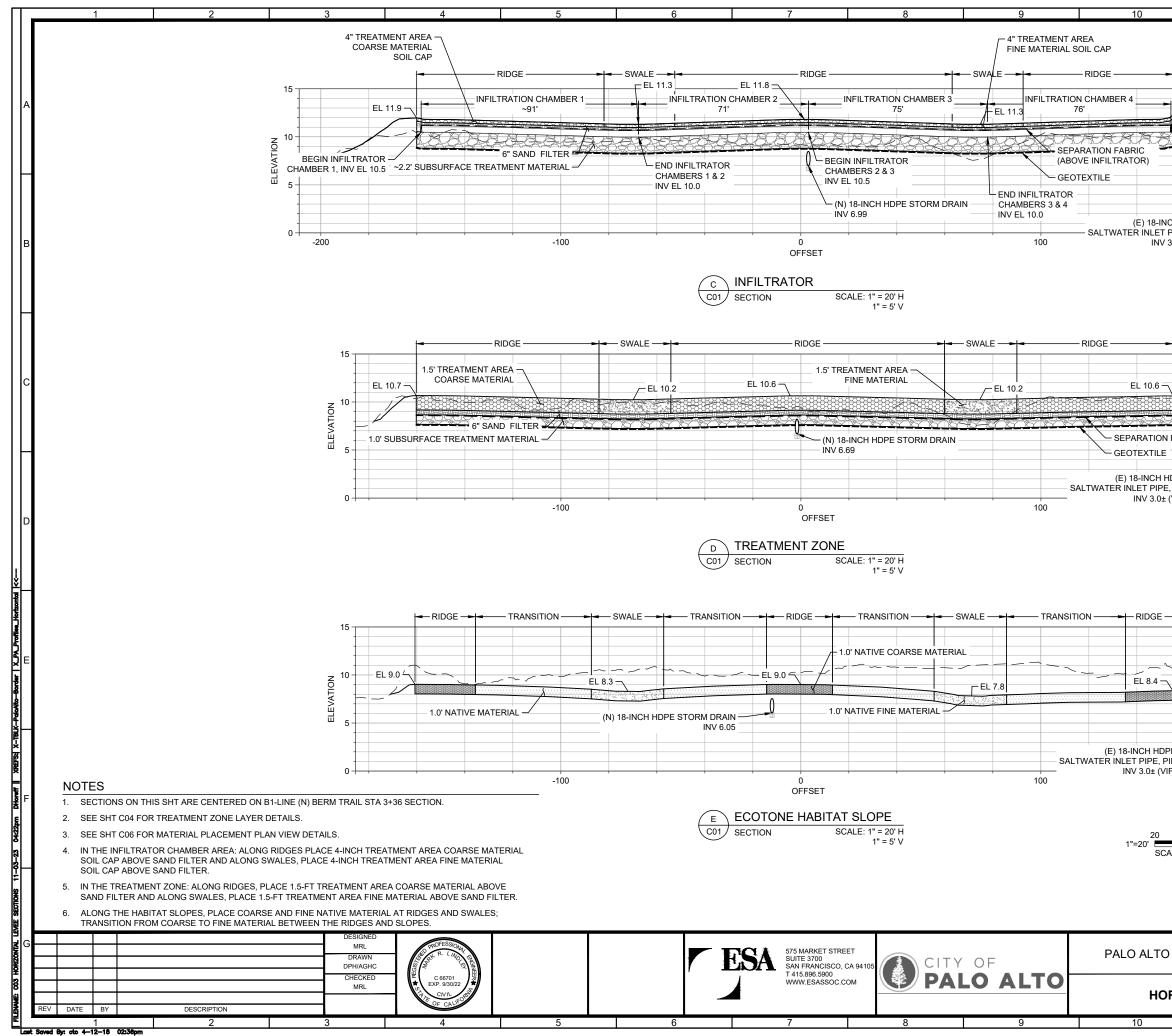




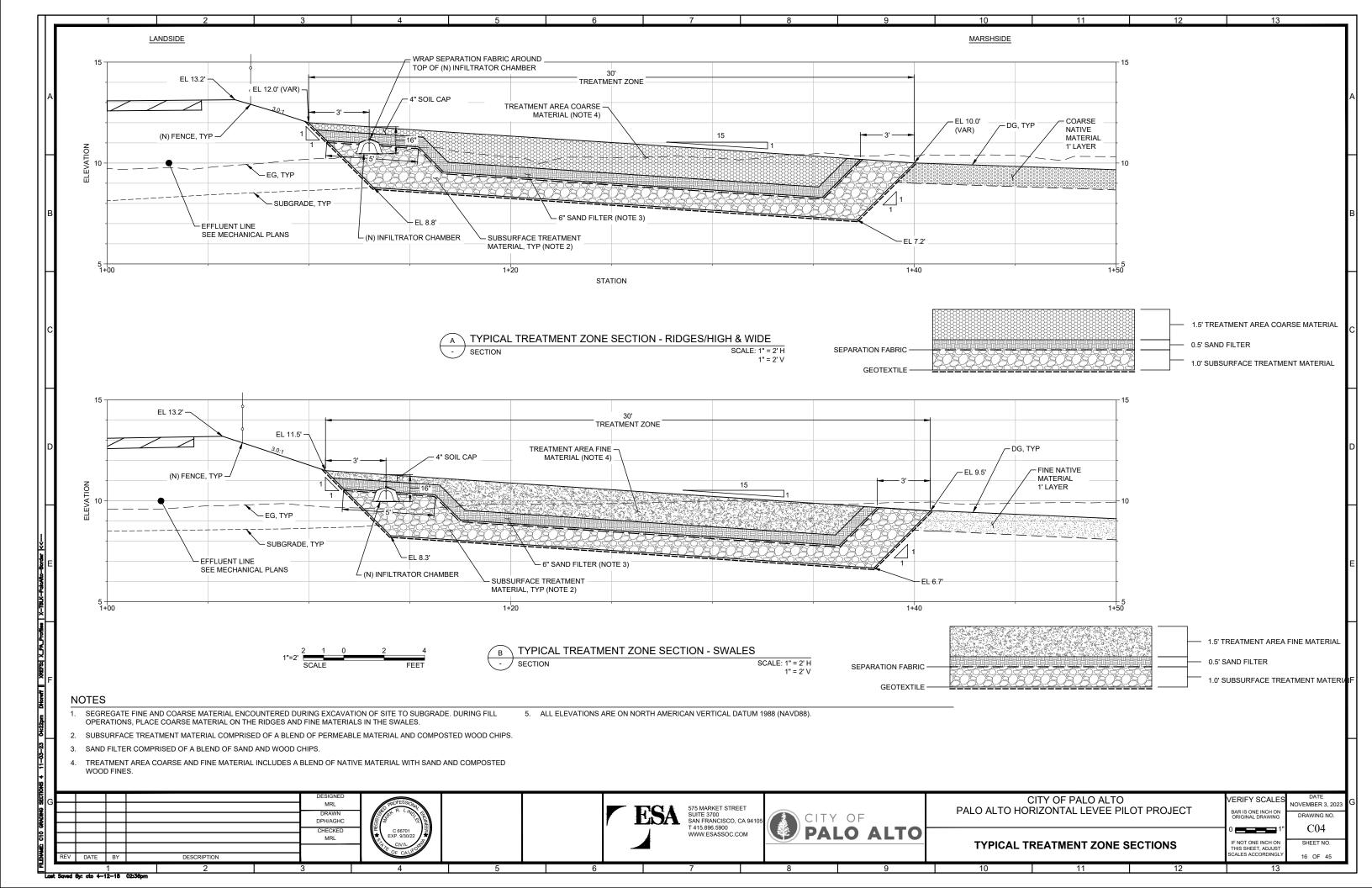


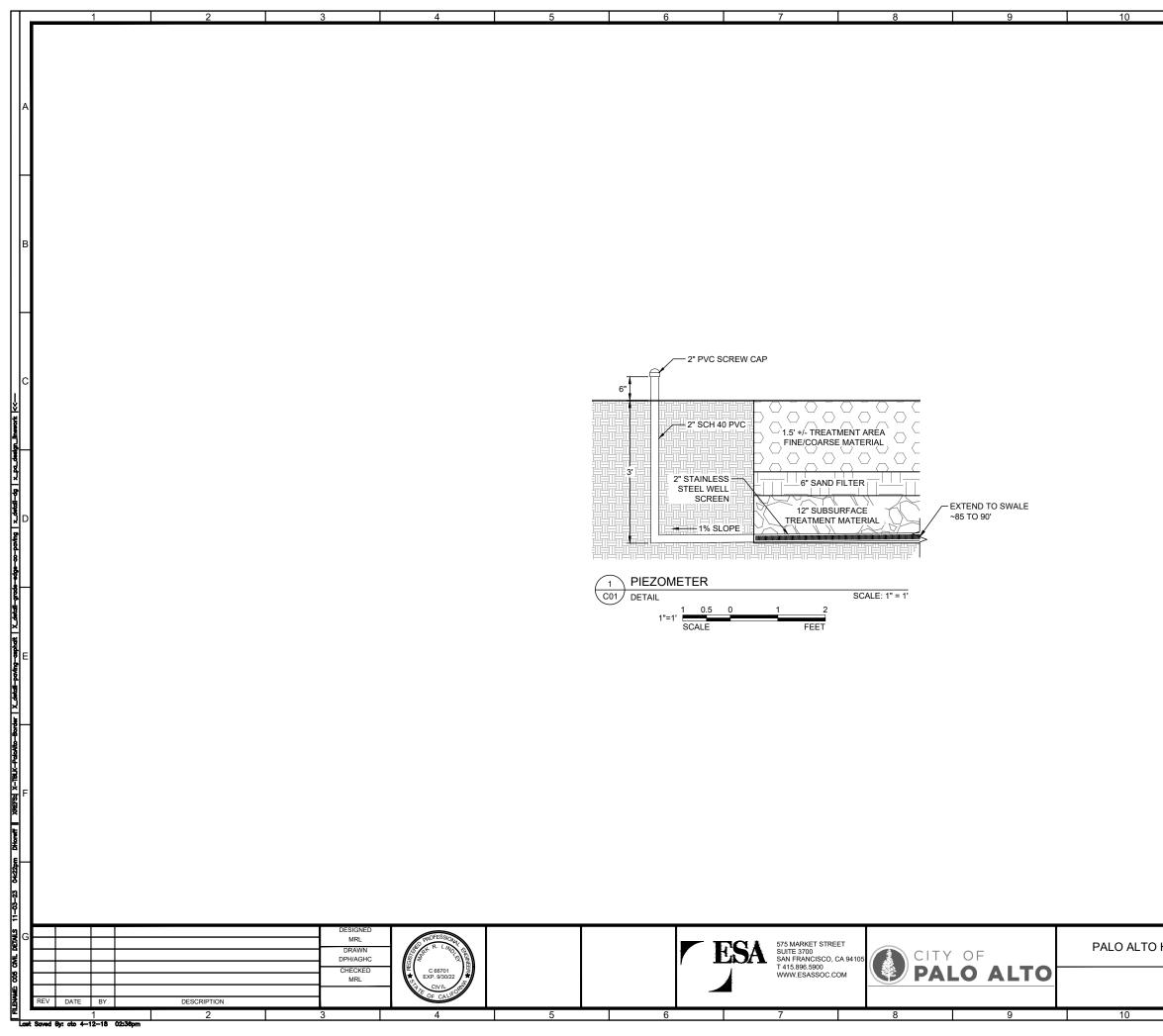
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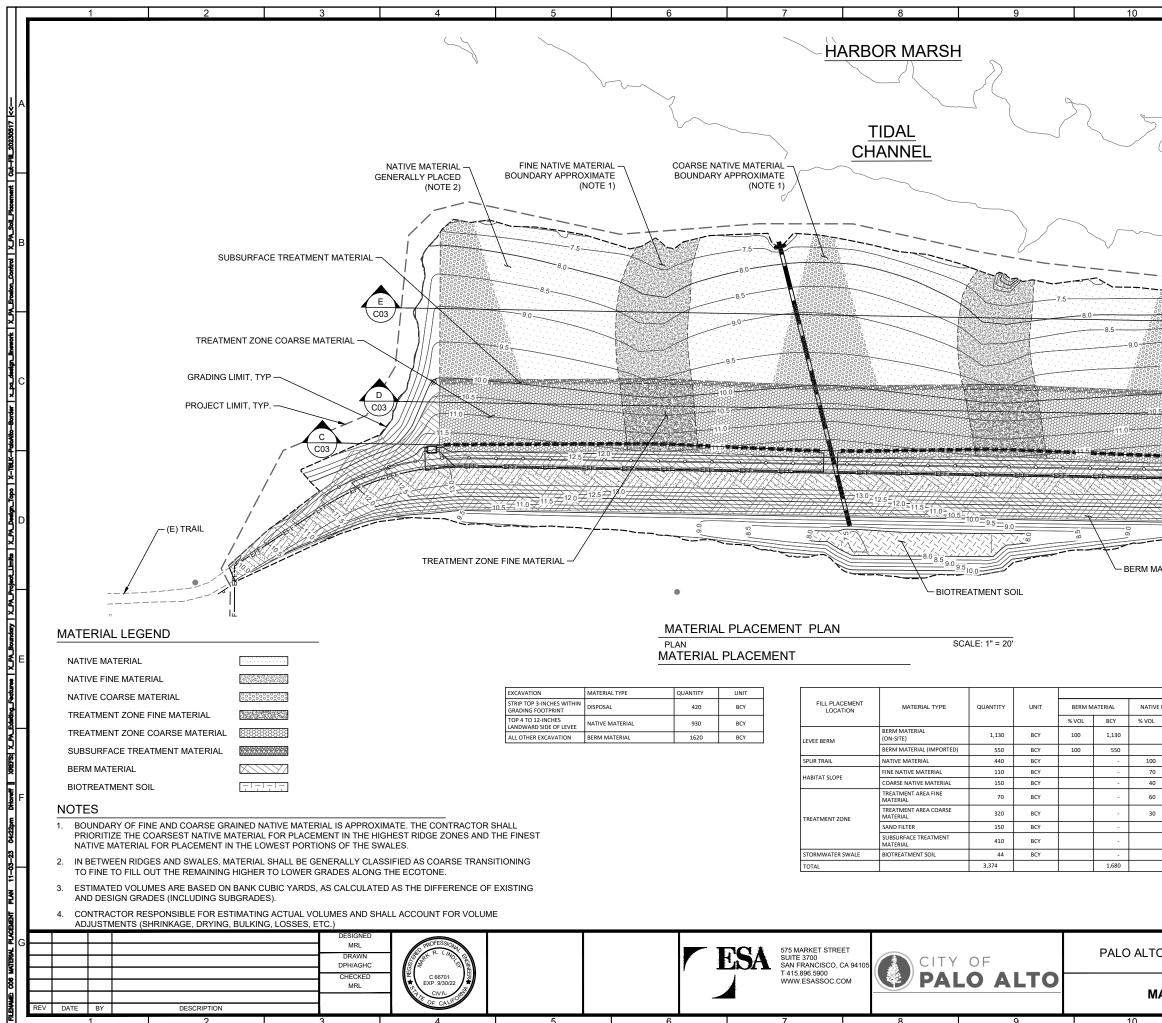
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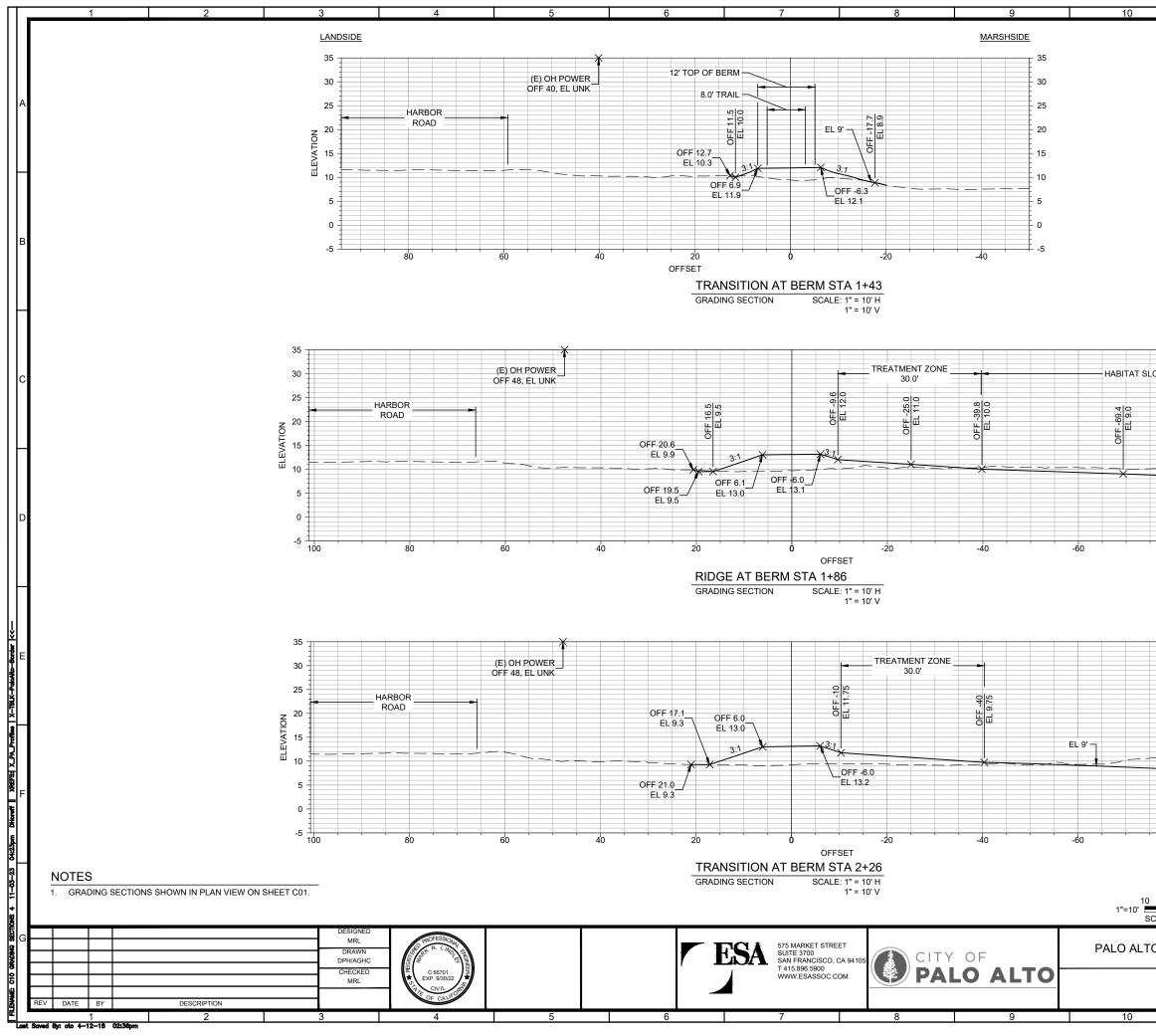
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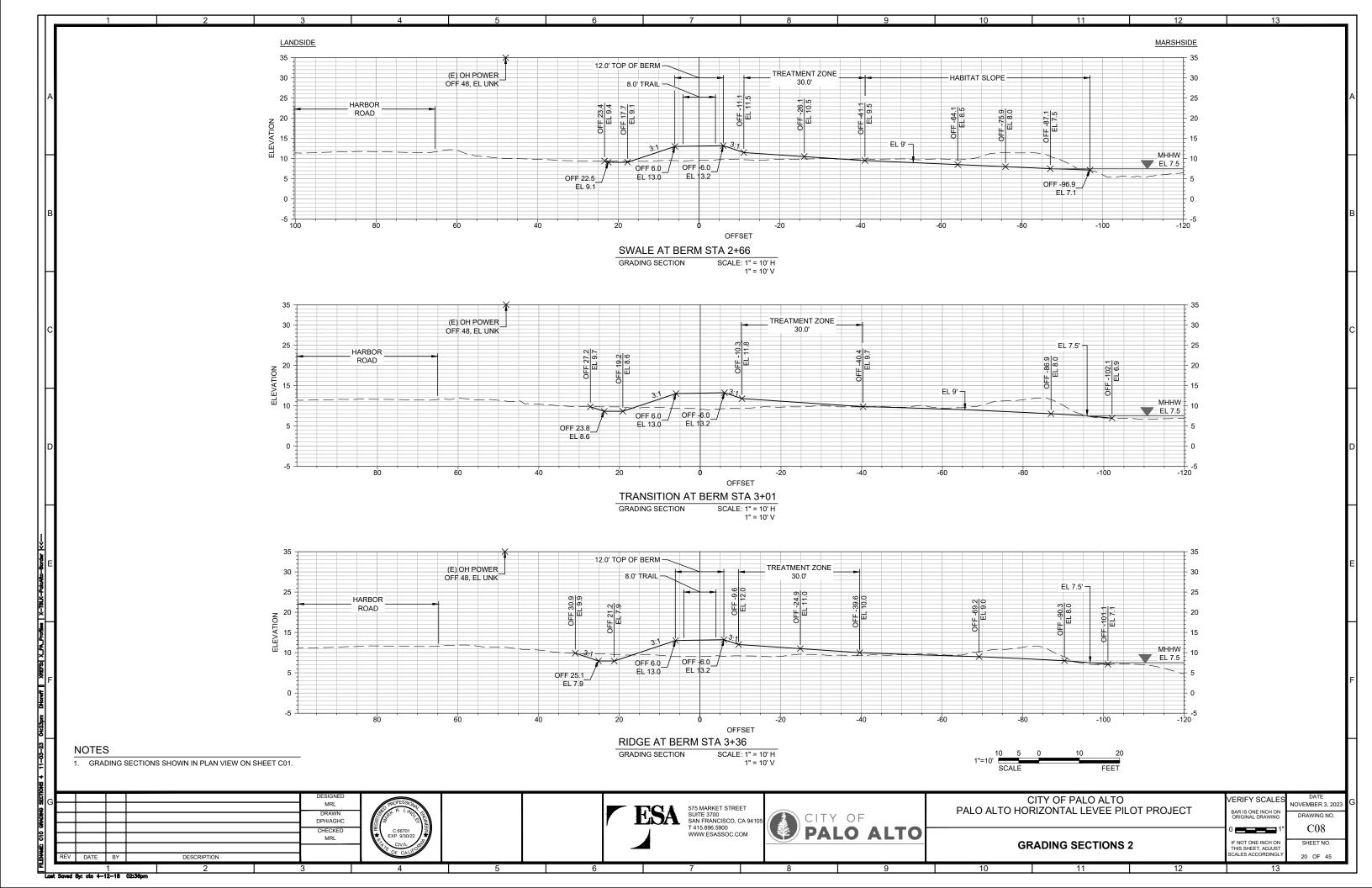


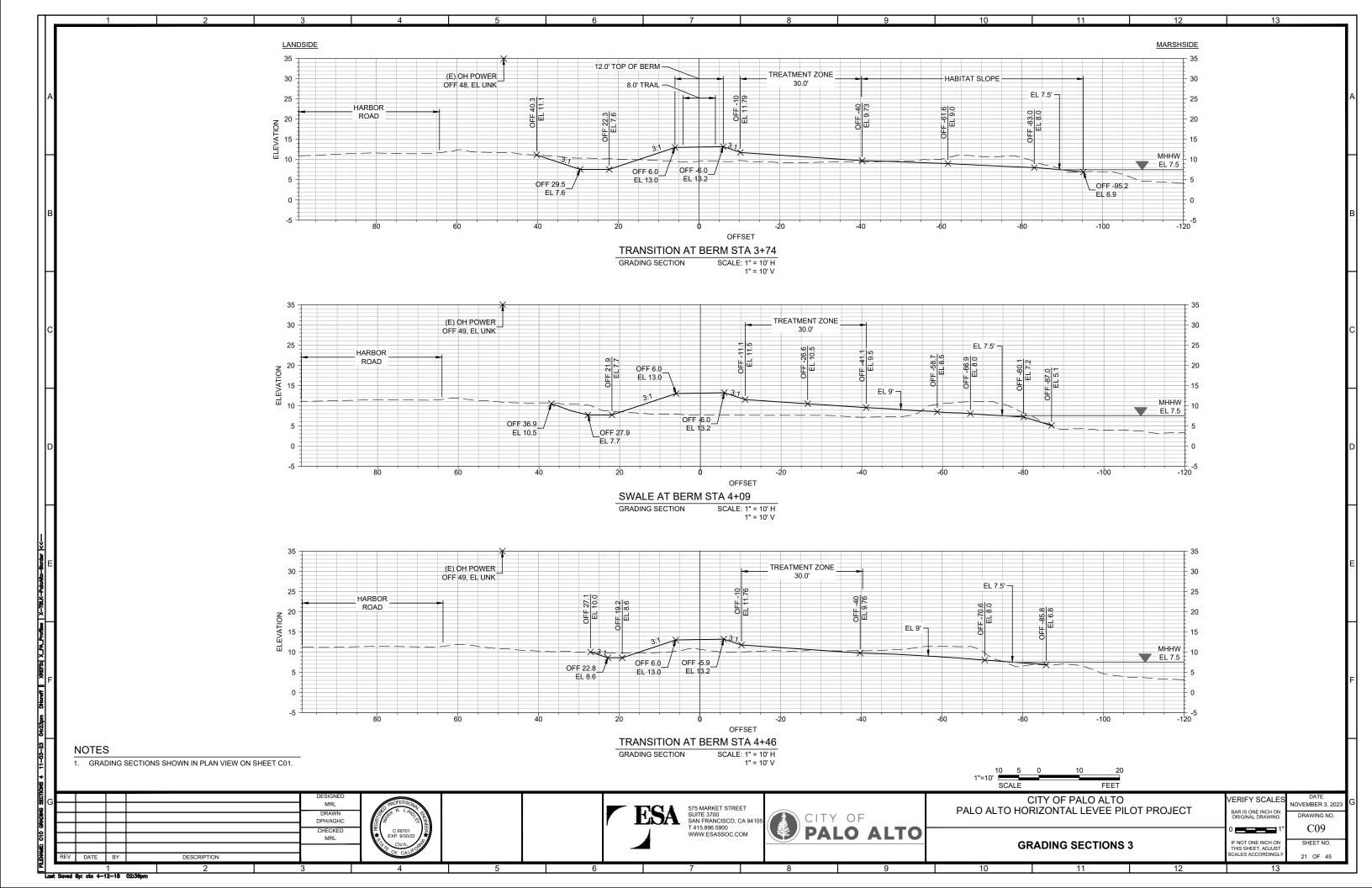
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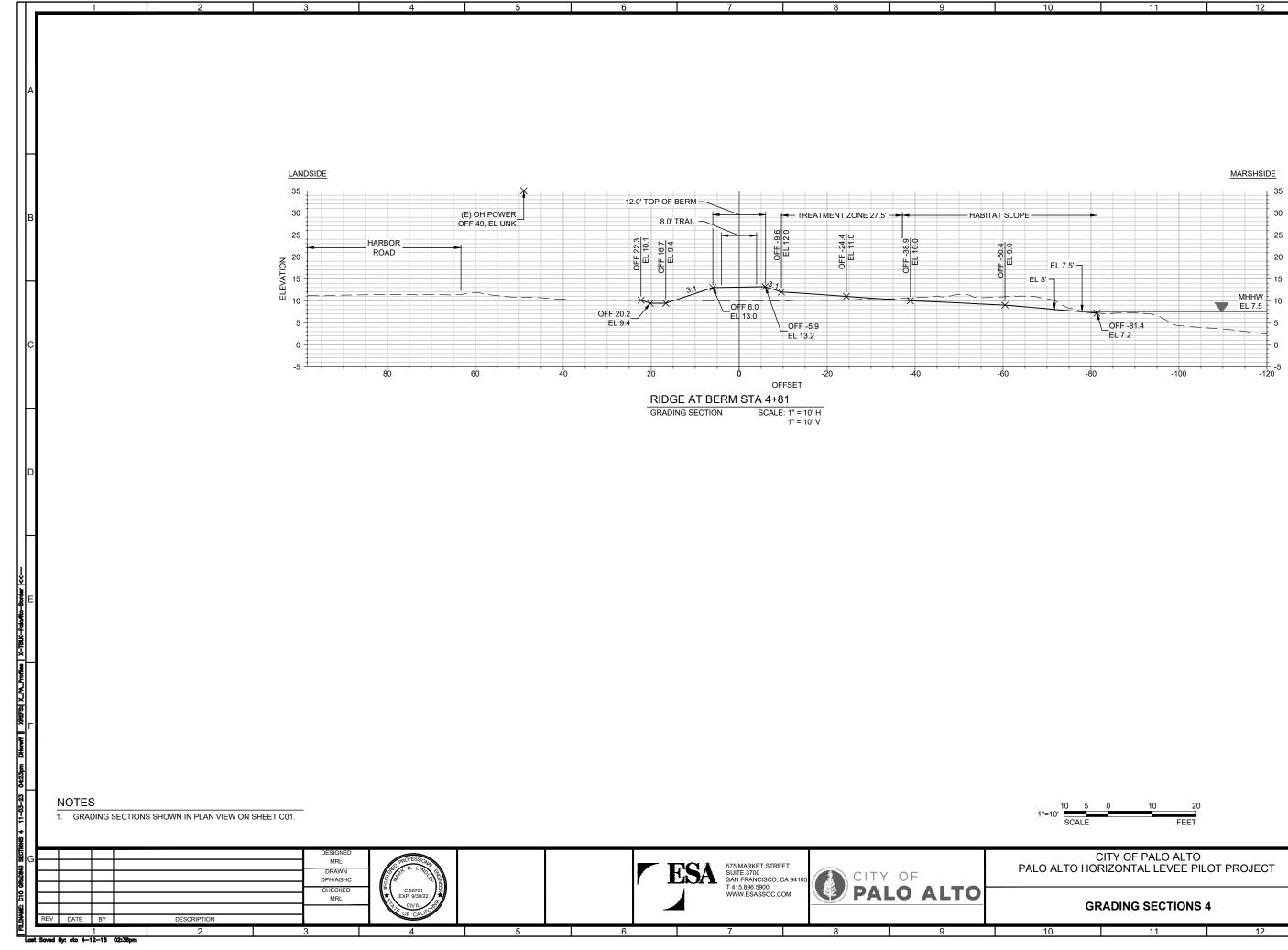
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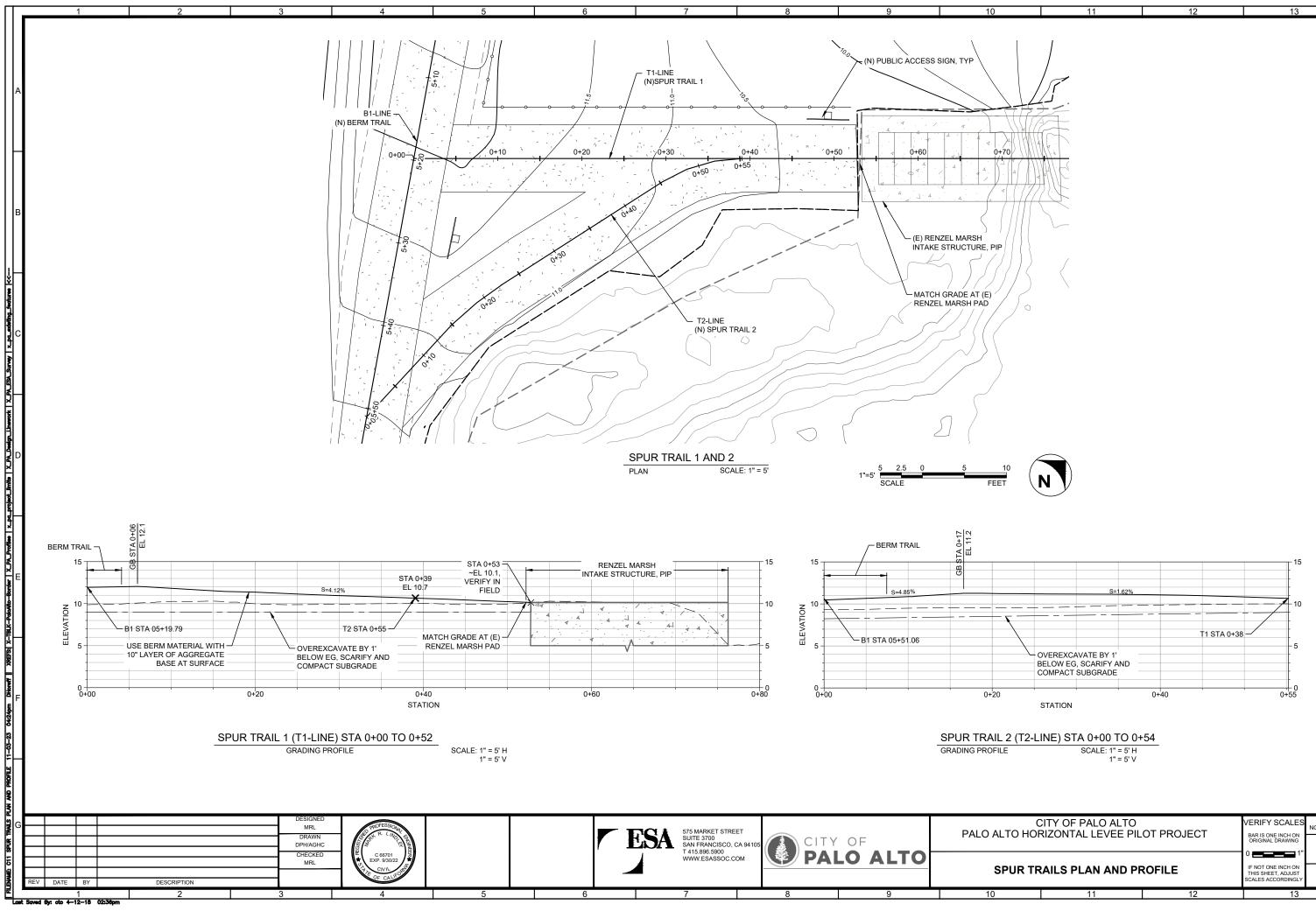




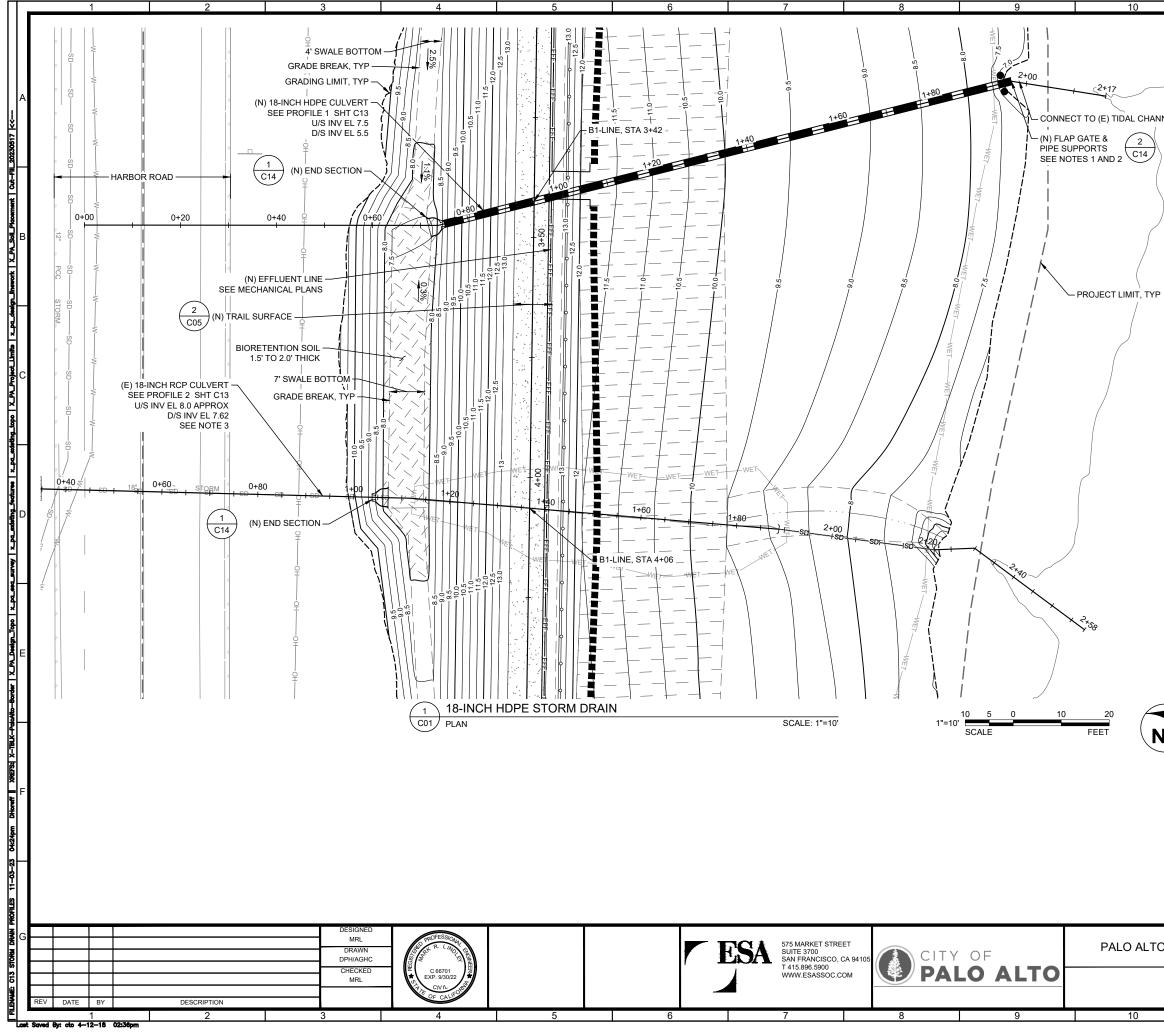


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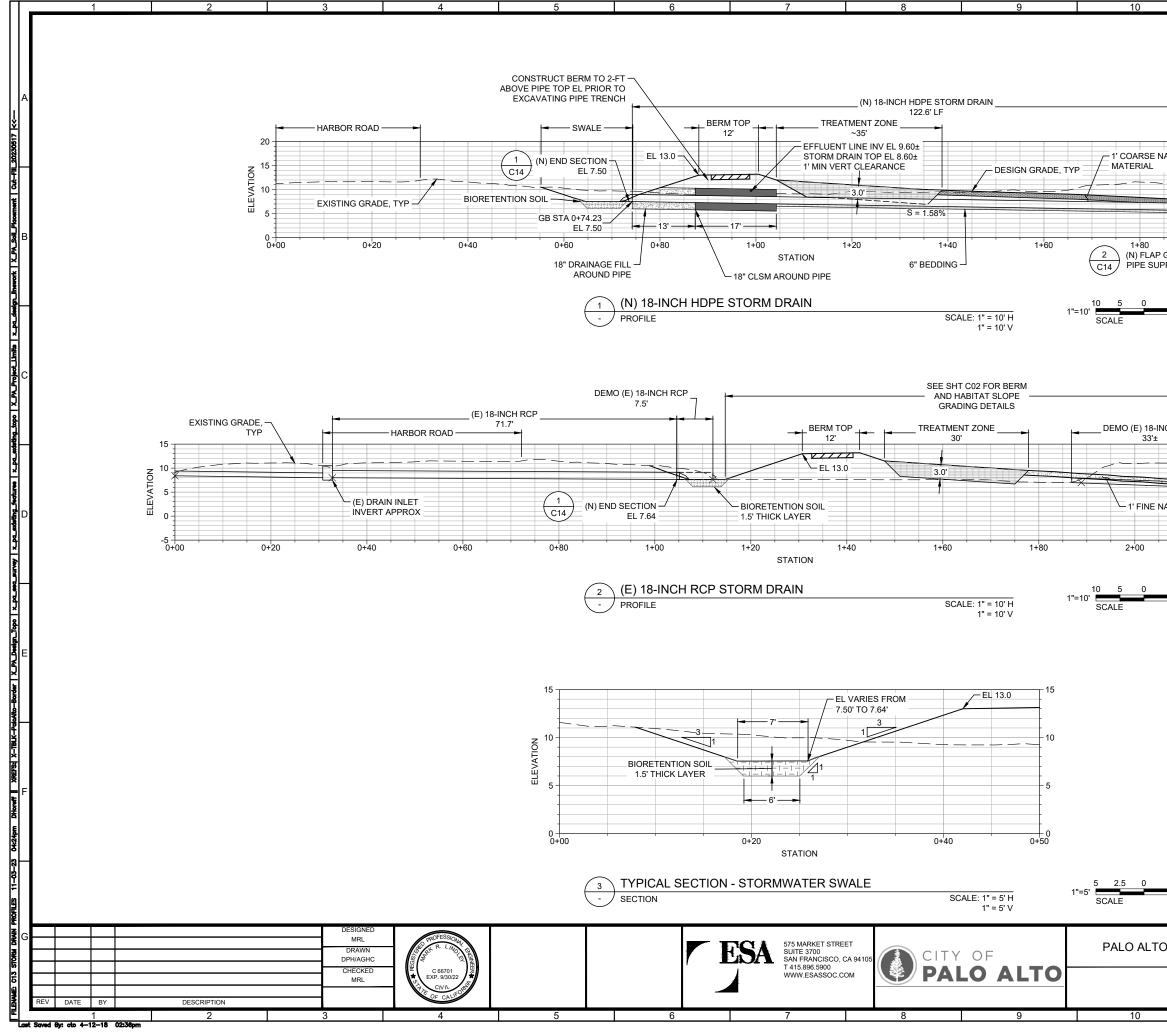
CITY OF PALO ALTO		VERIFY SCALES	DATE NOVEMBER 3, 2023	G
O HORIZONTAL LEVEE PIL	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.		
		0 1"	C10	
GRADING SECTIONS	IF NOT ONE INCH ON THIS SHEET, ADJUST	SHEET NO.		
		SCALES ACCORDINGLY	22 OF 45	
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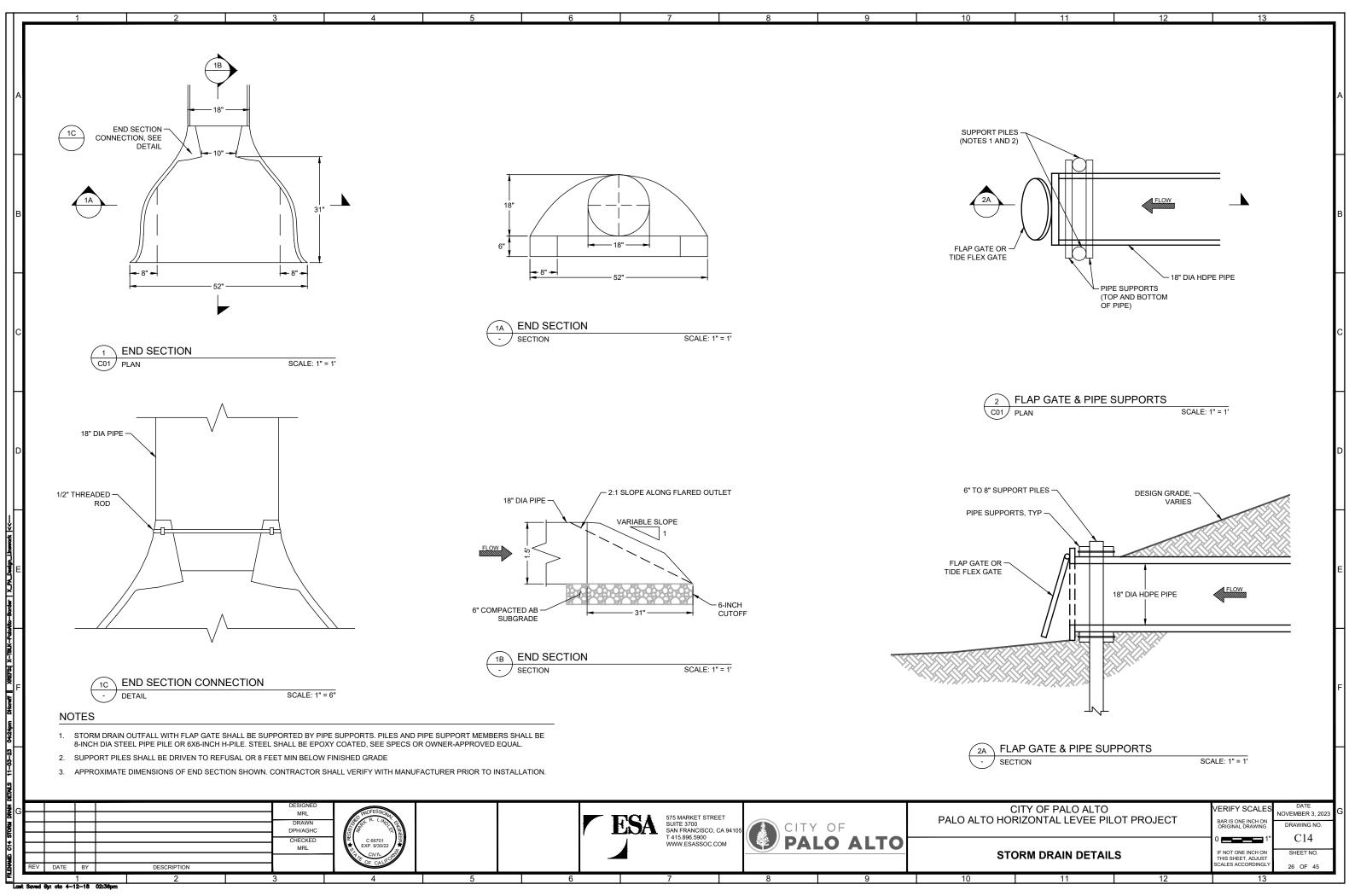
CITY OF PALO ALTO	VERIFY SCALES	DATE	G
O HORIZONTAL LEVEE PILOT PROJECT	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.	G
JR TRAILS PLAN AND PROFILE	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	C11 SHEET NO. 23 OF 45	
11 12	13		<u> </u>

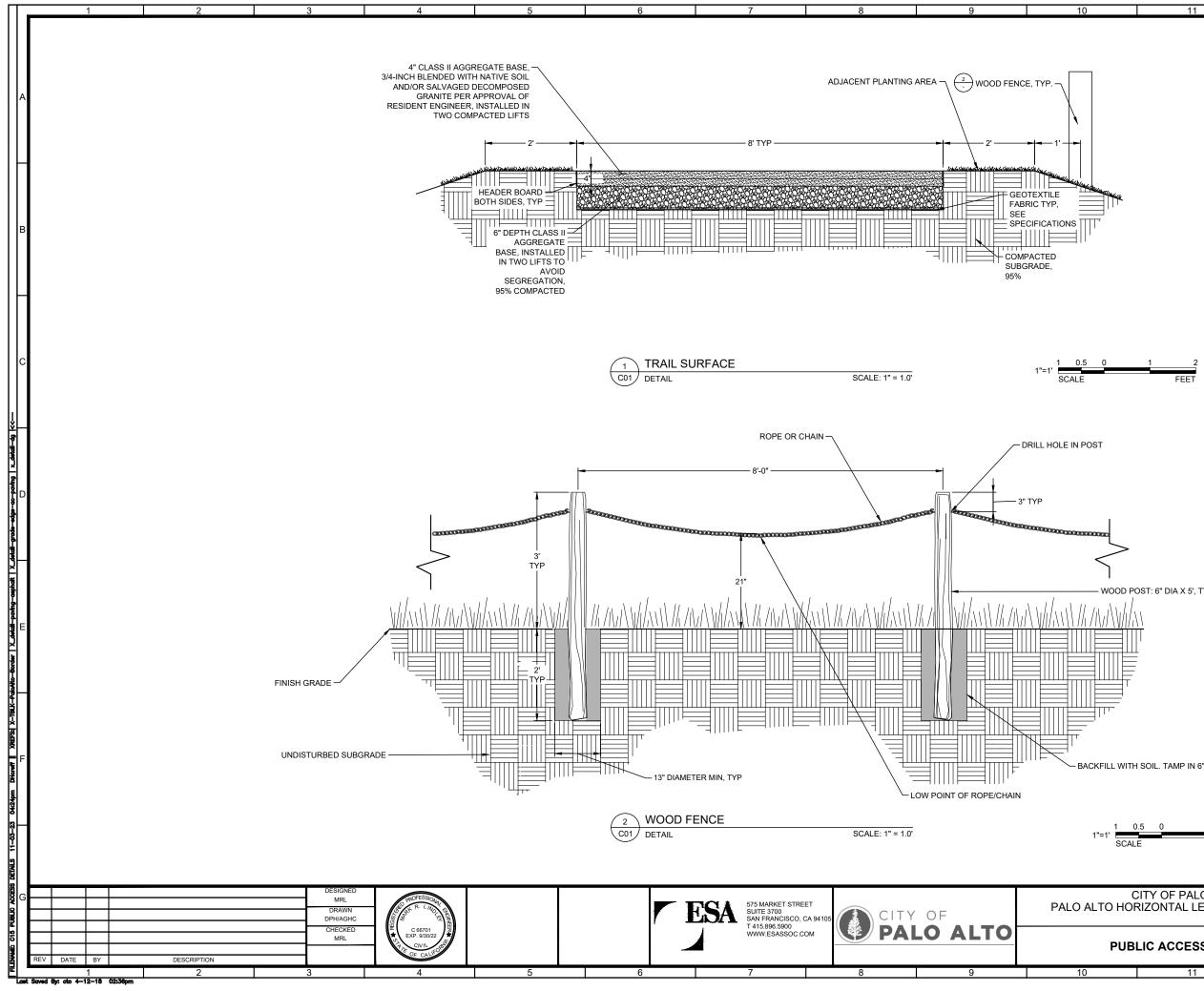


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INNEL	2	SUPPOF SUPPOF PIPE PIL EPOXY (EQUAL. 2. SUPPOF FEET MI 3. CONTR/ PRE- AN CONDIT	RTED BY PIPE SU RT MEMBERS SH E OR 6X6-INCH I COATED, SEE SF RT PILES SHALL N BELOW FINISH	JPPORTS. PI IALL BE 8-IN(H-PILE. STEE PECS OR OW BE DRIVEN 1 HED GRADE. CTV CONDIT RUCTION TO DETERIORAT	CH DIA STEEL EL SHALL BE INER-APPROVED TO REFUSAL OR (ION OF (E) PIPE D VERIFY THE TE DUE TO		А
'P							c
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	2						E
N Y							F
C Fo Hof	CITY OF PAL	D ALTO EVEE PIL	OT PROJEC	т	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0	DATE NOVEMBER 3, 2023 DRAWING NO. C12	G
S		N PLAN	10		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 24 OF 45	
	11		12		13		



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NATIVE	EL 5.56	20	A	
P GATE & JPPORTS	2+00	10 MHHW EL 7.5 5 0 2+17	B	\$
	FEET		5	;
NATIVE	MATERIAL 2+20	2+40 2+58	MHHW EL 7.5)
11	020 FEET		E	
			F	
5	FEET			
C TO HOF	CITY OF PALO ALTO RIZONTAL LEVEE PIL	OT PROJECT	VERIFY SCALES NOVEMBER 3, 2023 G	;
STO	RM DRAIN PROFILI		0 C13 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY 25 OF 45	
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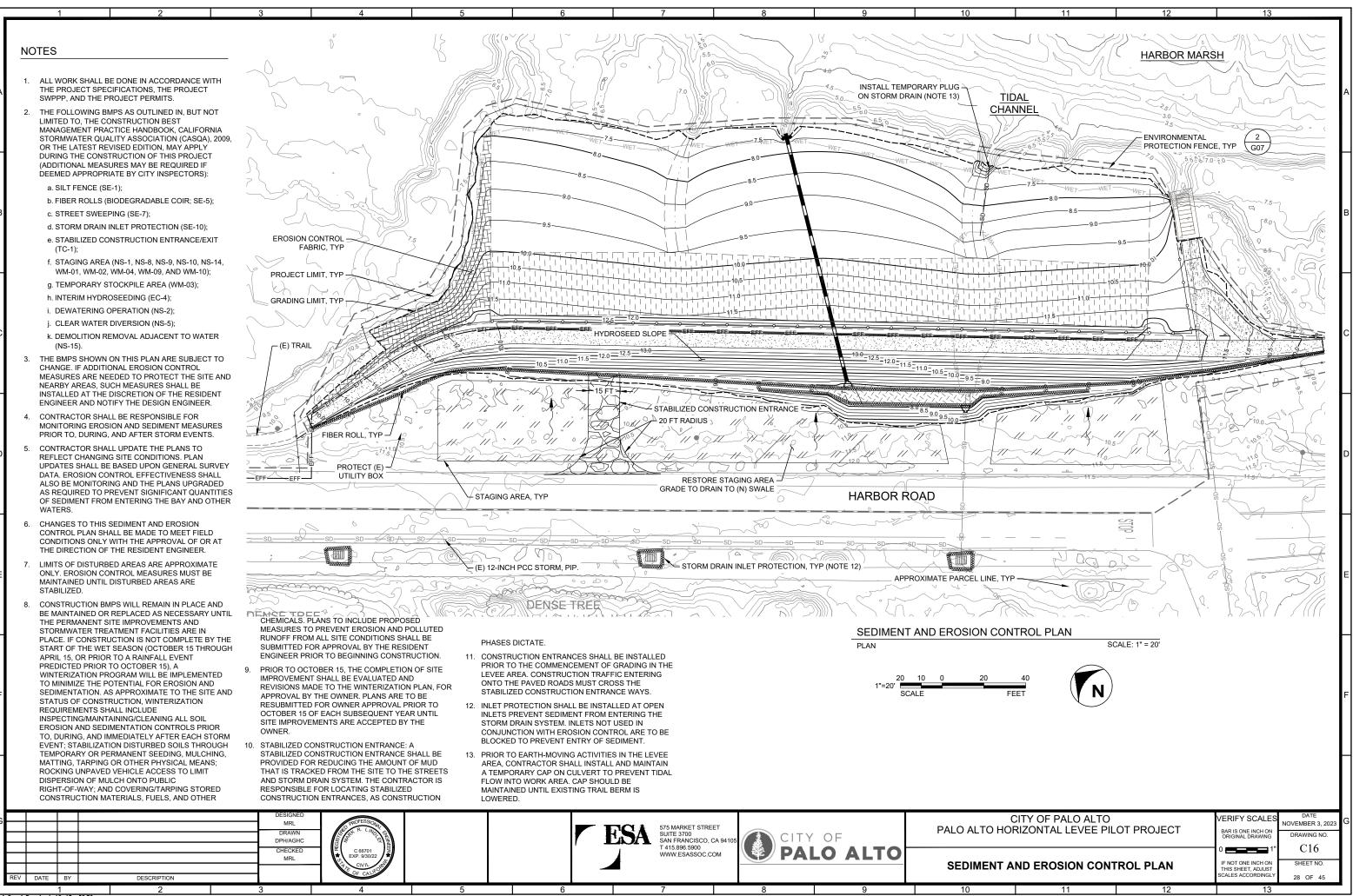
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O HORIZONTAL LEVEE PILOT PROJECT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.	
		0	C15	
PUBLIC ACCESS DETAI	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.		
			27 OF 45	
11	12	13		

FEET

- BACKFILL WITH SOIL. TAMP IN 6" LIFTS, TYP

WOOD POST: 6" DIA X 5', TYP

12

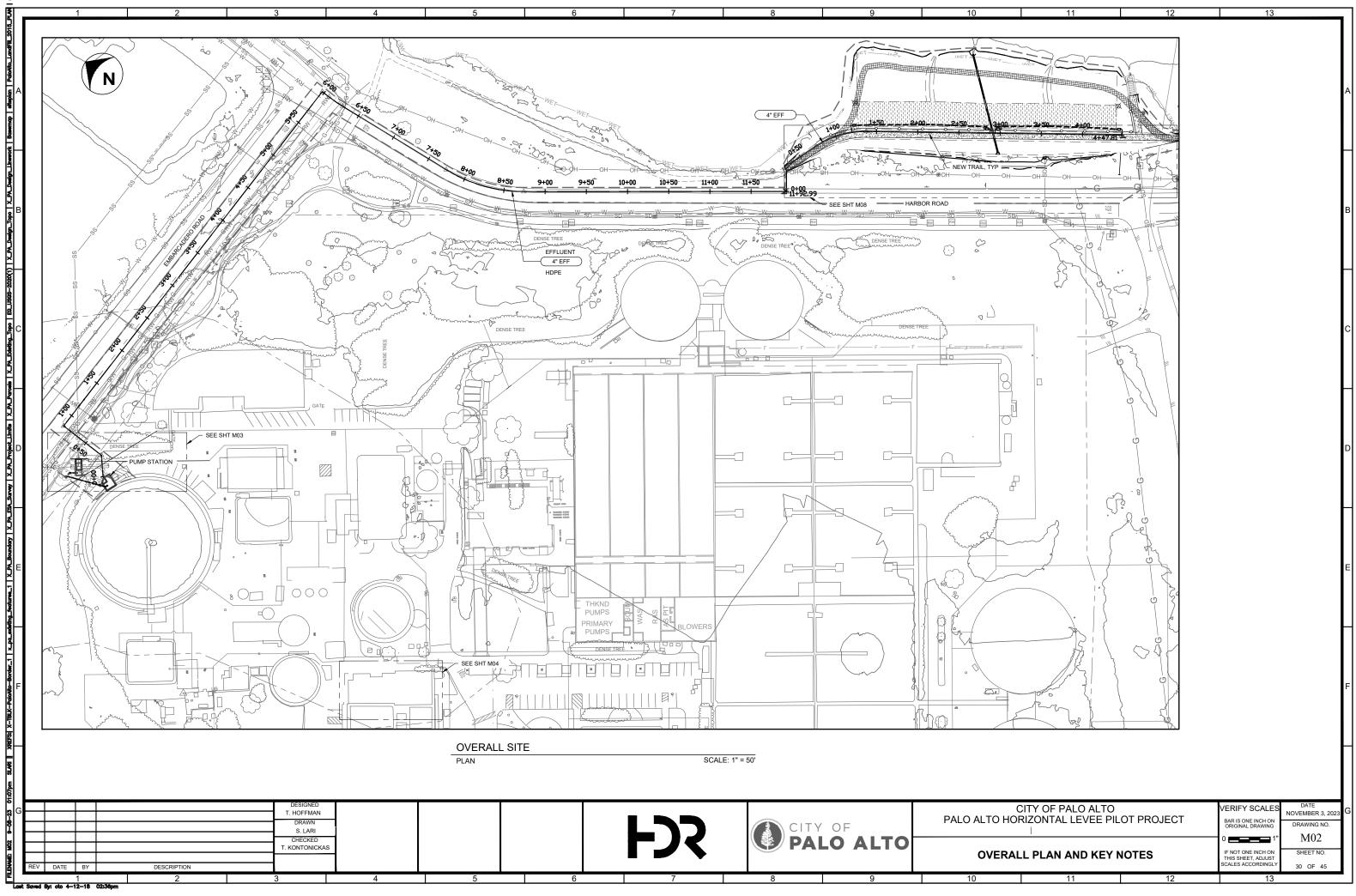


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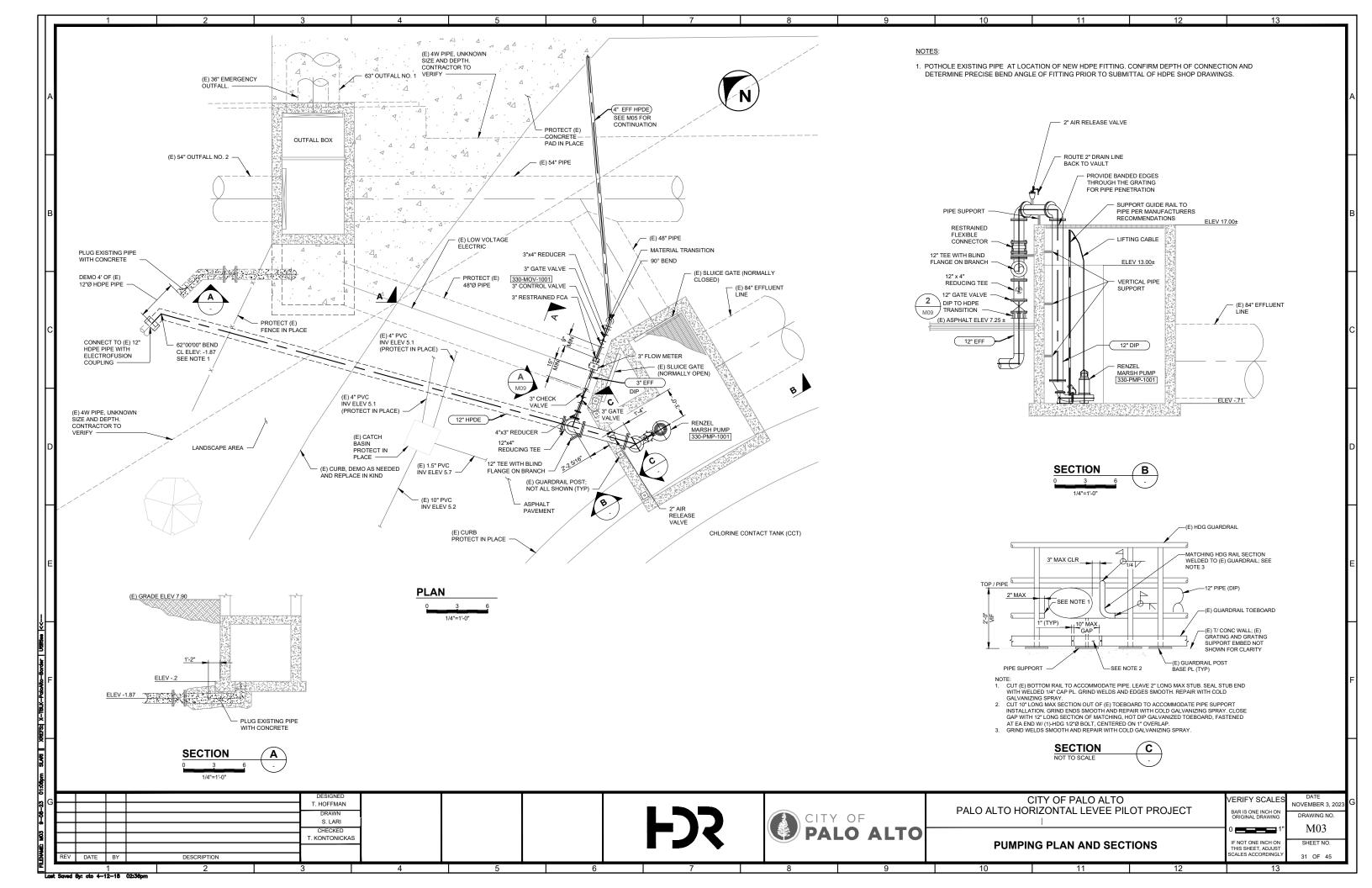
Т	1 2	3 4 5	6 7	8 9	10
	YARD PIPING LEGEND	YARD PIPING LEGEND (CONT'D)	GENERAL CIVIL NOTES	v l v	
	MOTES: SMB0LOGY SHOWN IS FOR SINGLE LINE PIPING. DOUBLE LINE PIPING SYMBOLS ARE SIMILAR. VALVES GLOBE VALVE MEDLE VALVE Freessure Recular VALVE Freessure Recollaring VALVE	YARD PIPING LEGEND (CONT'D) MISCELLANEOUS Image: Contract of the state of	 GENERAL CIVIL NOTES SELECT NETS, JAND DEPTHS OF EXISTING UNDER WHEE OBTAINS PRESS, AND DEPTHS OF EXISTING UNDER WHEE OBTAINS OF ALL THESE AND PERTINS OF EXISTING UNDER SUCH UNDERGROUND FACILITIES, OWNER AND EXISTING FUNCTION RESPONSIBILITY FOR COMPLETENSS OF ACCURACY OF OF SUCH UNDERGROUND FACILITIES, OWNER AND EXISTING FUNCTION RESPONSIBILITY FOR COMPLETENSS ON LOCATION OF EXISTING AND EXIS INDERGROUND FACILITIES, THAT ANE TO BE CONNECTED TO UNDERGROUND FACILITIES, THAT ANE TO BE CONNECTED TO UNDERGROUND FACILITIES, THAT ANE TO BE CONNECTED TO ALLEMMENT HAUD DEPTHS CONTRACTOR IS REQUIRED TO FO ALLEMMENT HAUD REPORTS IN A TYMEF AND OTHER MISSE PREDUIDED TO CONSTRUCT INFROMENTIAL AND THE RESONAL CONTRACT PHYNIG ANTEL ELECTRICAL CONDUITS AND DU- LICATION OF EXISTING FACILITIES. COORDINATE ALL PHYNIG HAUT ELECTRICAL CONDUITS AND DU- LICATION OF EXISTING FACILITIES. COORDINATE ALL PHYNIG HAUT ELECTRICAL CONDUITS AND DU- LICATION OF EXISTING FACILITIES. SELECT MECHANICAL COUPMENT TO MININZE DAMAGET (THE RECULIRED TO CONSTRUCT IMPROVEMENTS UNDER THIS CO ONCOLURED TO AND TRICK PROVIDED TO MININZE DAMAGET (THE RECULIRED TO AND TRICK PROVIDED TO MININZE DAMAGET (THE RECULIRED TO AND TRICK PROVIDED TO MISING OF TENENCY ONCOLURED TO AND TRICK PROVIDED TO MININZE DAMAGET (THE RECULIRED TO AND TRICK PROVIDED TO MISING OF TENENCY ONCOLURED TO AND TRICK PROVIDED TO MISING OF TENENCY ONTRUCTOR DEALEMENT TO AND OTHER ONTRUCTOR PROVIDED AND TRICK PR	INT PLANS A REASONABLE NOWN END A REASONABLE NOWN OTHER BURIED HICH ARE NOT LINEATION OF OTHER BURIED HICH ARE NOT LINEATION OF DEATION STATUS PIPING AND LLOW KININING EXACT XISTING PLANT. JCT BANKS ARE LLANEOUS REQUIRED TO GN PIPING AS NITRACT. ACILITIES NOT CTION OF NEW ND. EXISTING HOVE MATERIAL MAGED JTRACT CES RELATING BOR. THIS ES AFFIC CONTROL OF TRAFFIC ABSENCE OF AN ONSIGNILTY FOR Y, TEMPORARY D NSIONS BEFORE ES THOSE THE SUITABLE TE. PIPES	
G		DESIGNED			
		DRAWN		PALO ALTO	PALO AL1
		CHECKED		PALO ALTO	
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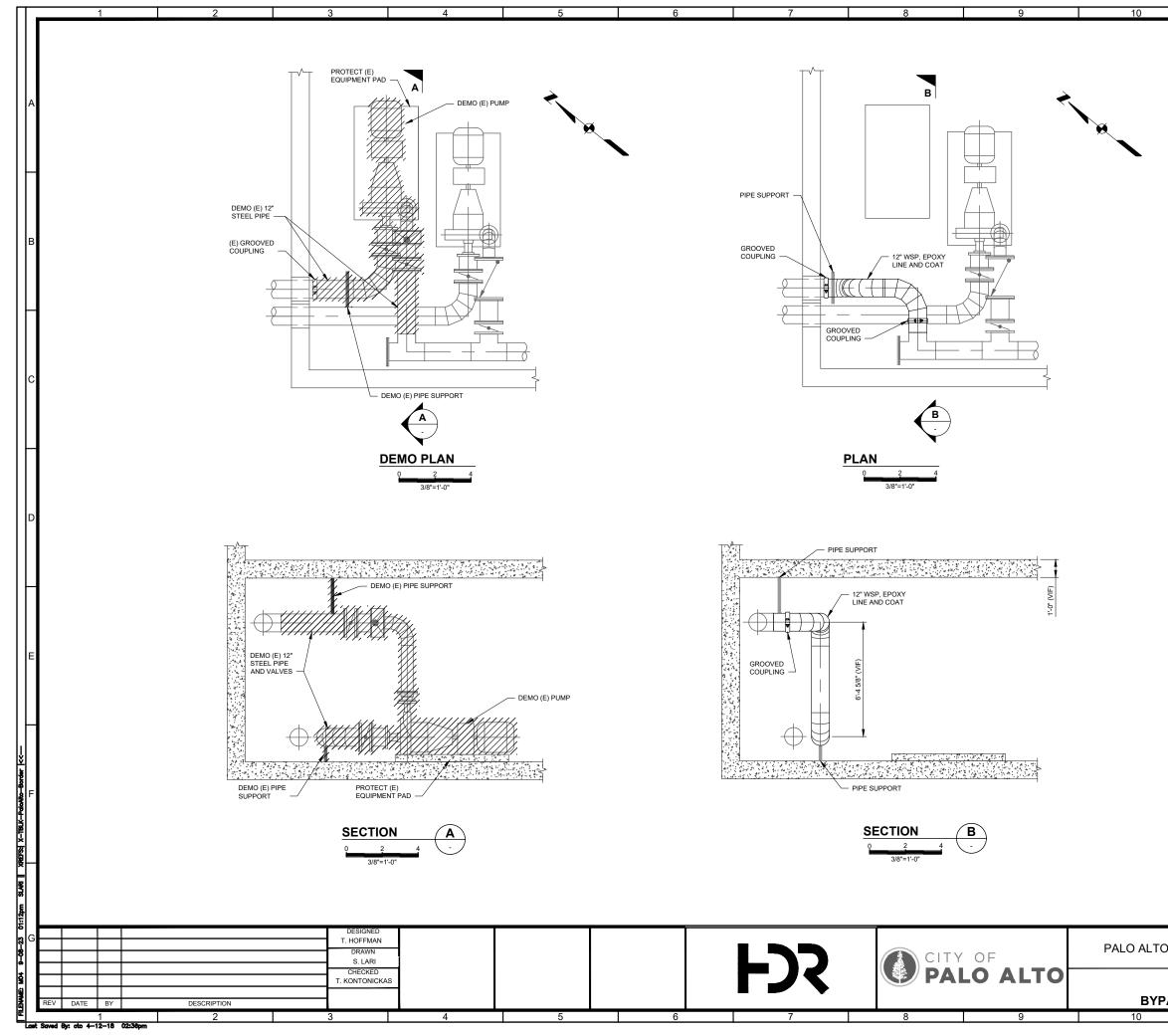
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CITY OF PALO ALTO		VERIFY SCALES	DATE	G
O HORIZONTAL LEVEE PIL	OT PROJECT	BAR IS ONE INCH ON	NOVEMBER 3, 2023	Ĭ
		ORIGINAL DRAWING	DRAWING NO.	
		0	M01	
CIVIL LEGEND		IF NOT ONE INCH ON THIS SHEET, ADJUST	SHEET NO.	
		SCALES ACCORDINGLY	29 OF 45	
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-	CITY OF PALO ALTO HORIZONTAL LEVEE PILOT PROJECT		VERIFY SCALES	DATE NOVEMBER 3, 2023	G
			BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. MO2	
			0 IE NOT ONE INCH ON	IVIUZ SHEET NO.	
ERAL	ERALL PLAN AND KEY NOTES			30 OF 45	
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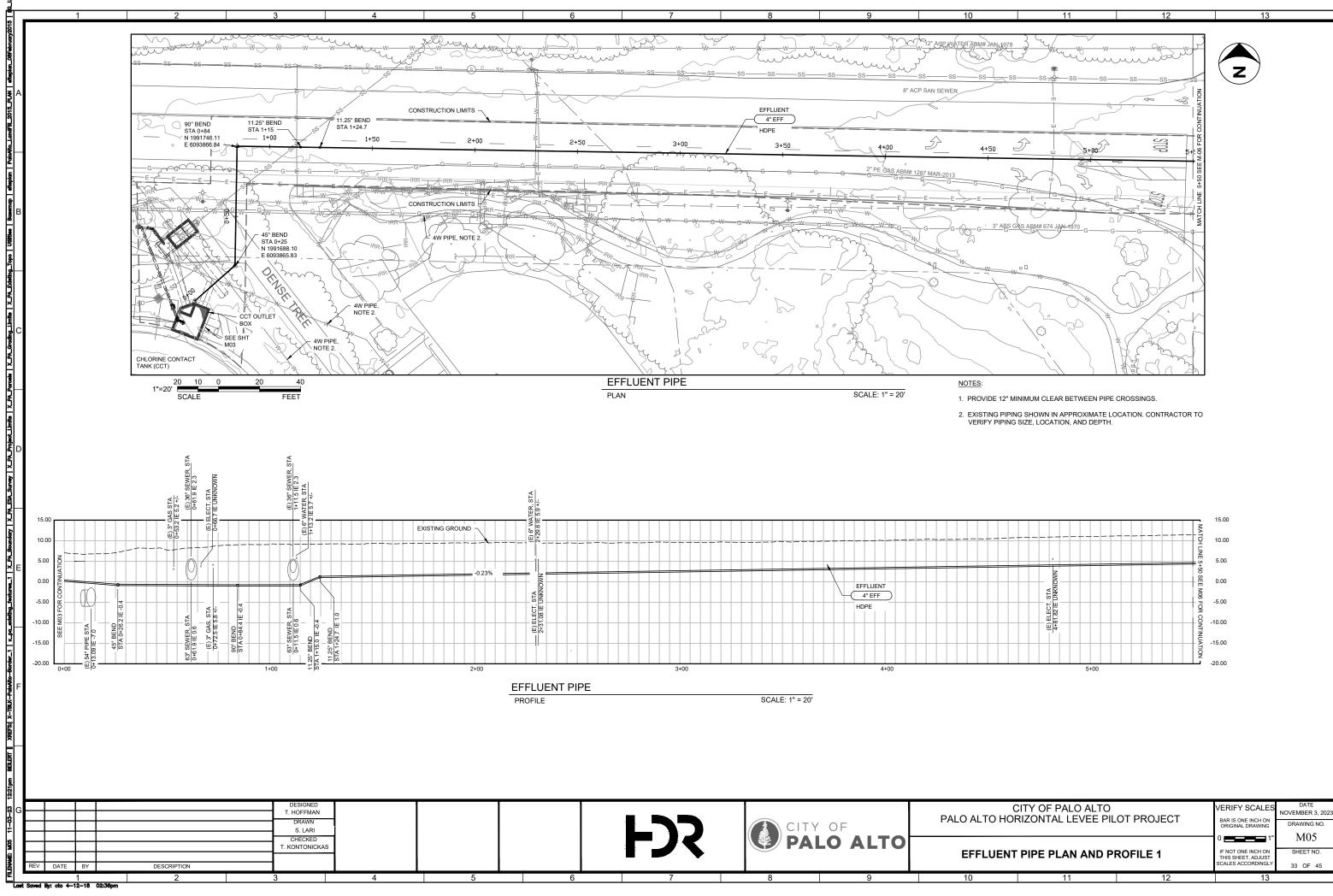
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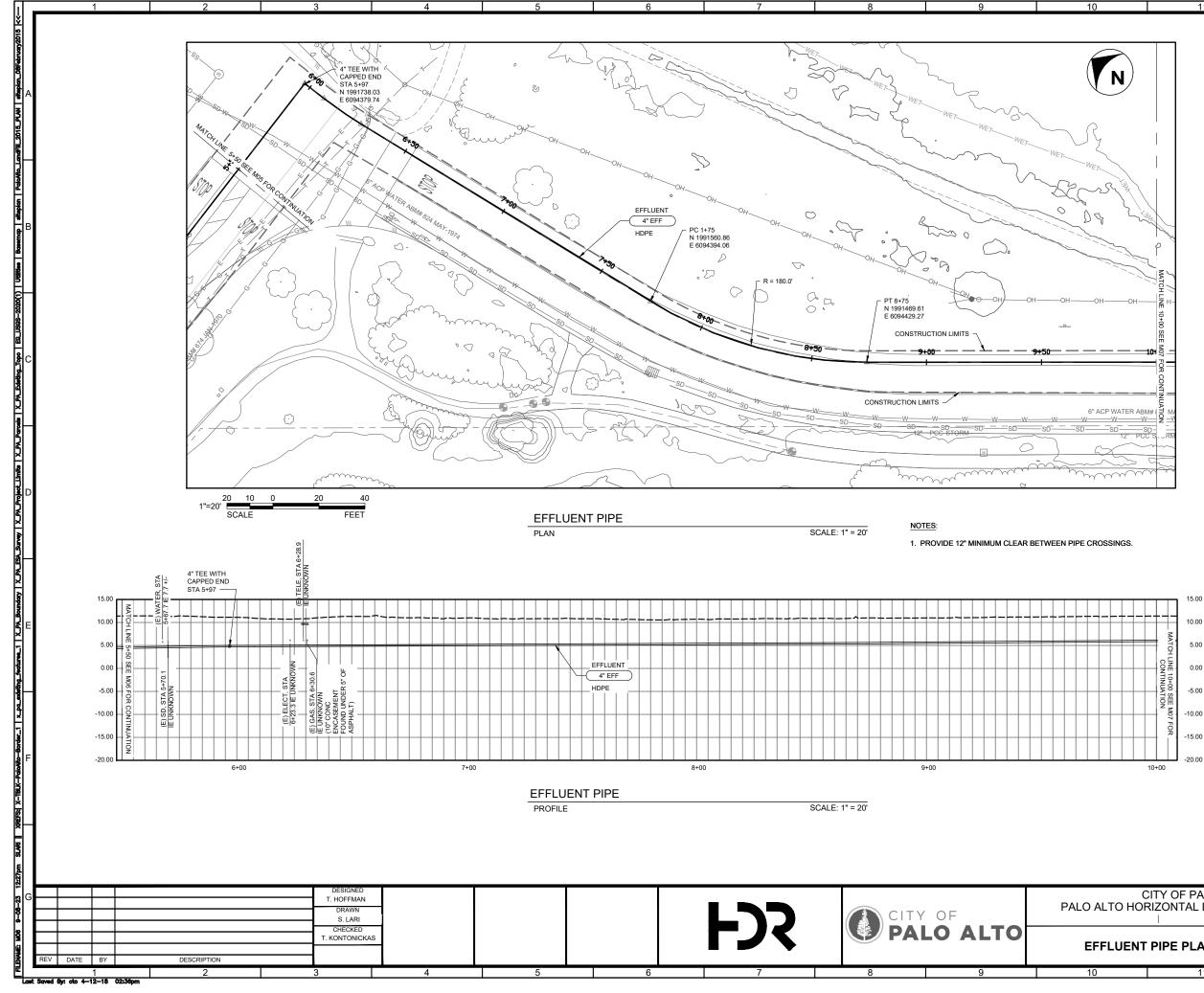
 PIPING AND EQUIPMENT THAT IS REMOVED AND WHICH IS NOT SHOWN TO BE RELOCATED OR SALVAGED SHALL BE DISPOSED OF BY THE CONTRACTOR.

- 2. CONTRACTOR SHALL ASSUME (E) SUPPORTS TO BE DEMOLISHED ARE SIMILAR TO THE SUPPORTS REPLACING THEM.
- 3. ALL NEW PIPING ON THIS SHEET SHALL BE 12"Ø WELDED STEEL.

				4 I.
CITY OF PALO ALTO O HORIZONTAL LEVEE PILOT PROJECT		VERIFY SCALES	DATE NOVEMBER 3, 2023	G
I		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.	
	_	01"	M04	
RENZEL MARSH PUMI PASS UPGRADE (ADMIN		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 32 OF 45	
11	12	13		1

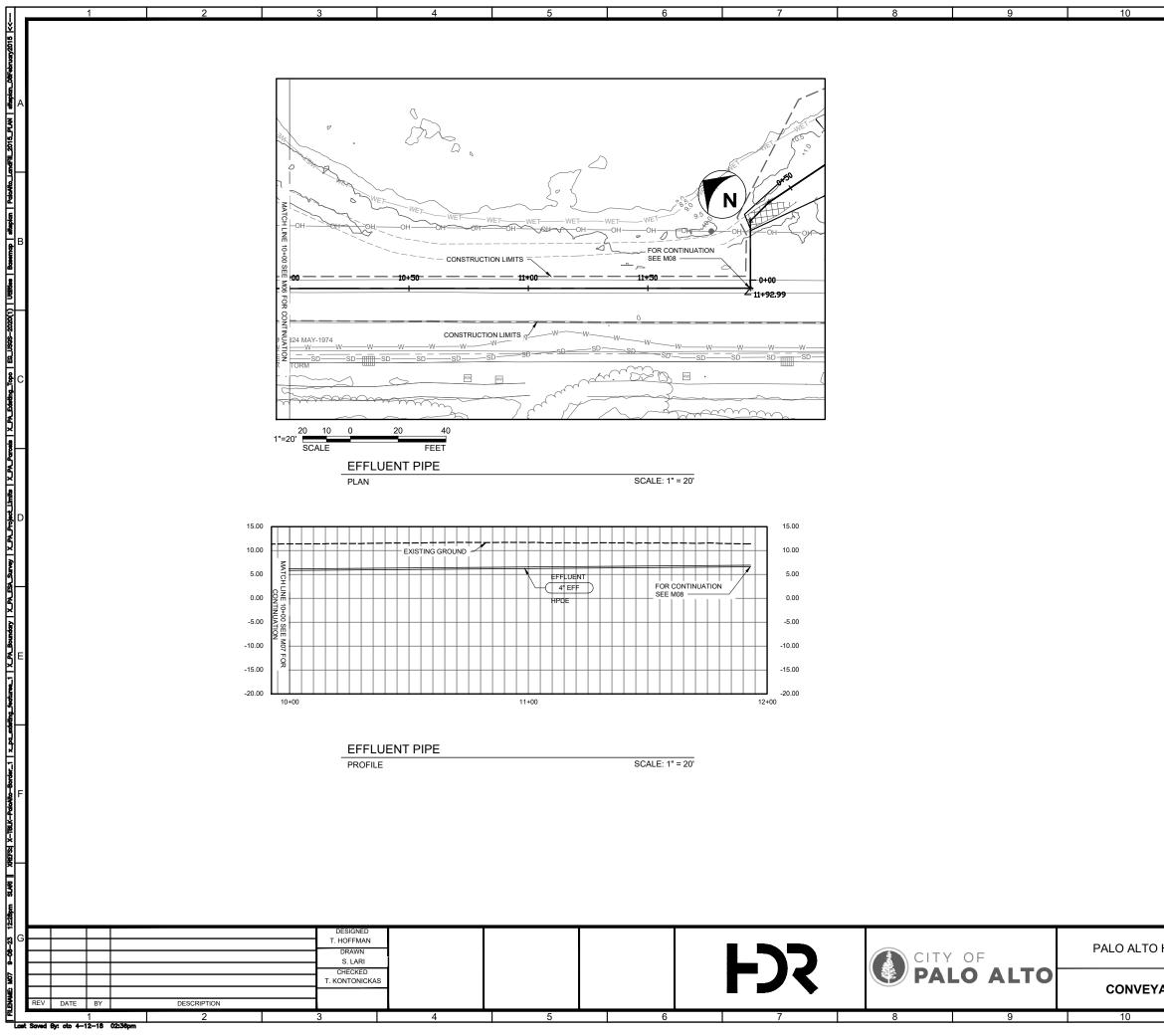


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	EETIEOTTIKOJECT	ORIGINAL DRAWING	DRAWING NO.	
		0 IF NOT ONE INCH ON	IVIUS SHEET NO.	
UENT PIPE PLAN AND PROFILE 1		THIS SHEET, ADJUST SCALES ACCORDINGLY	33 OF 45	
11	12	13		
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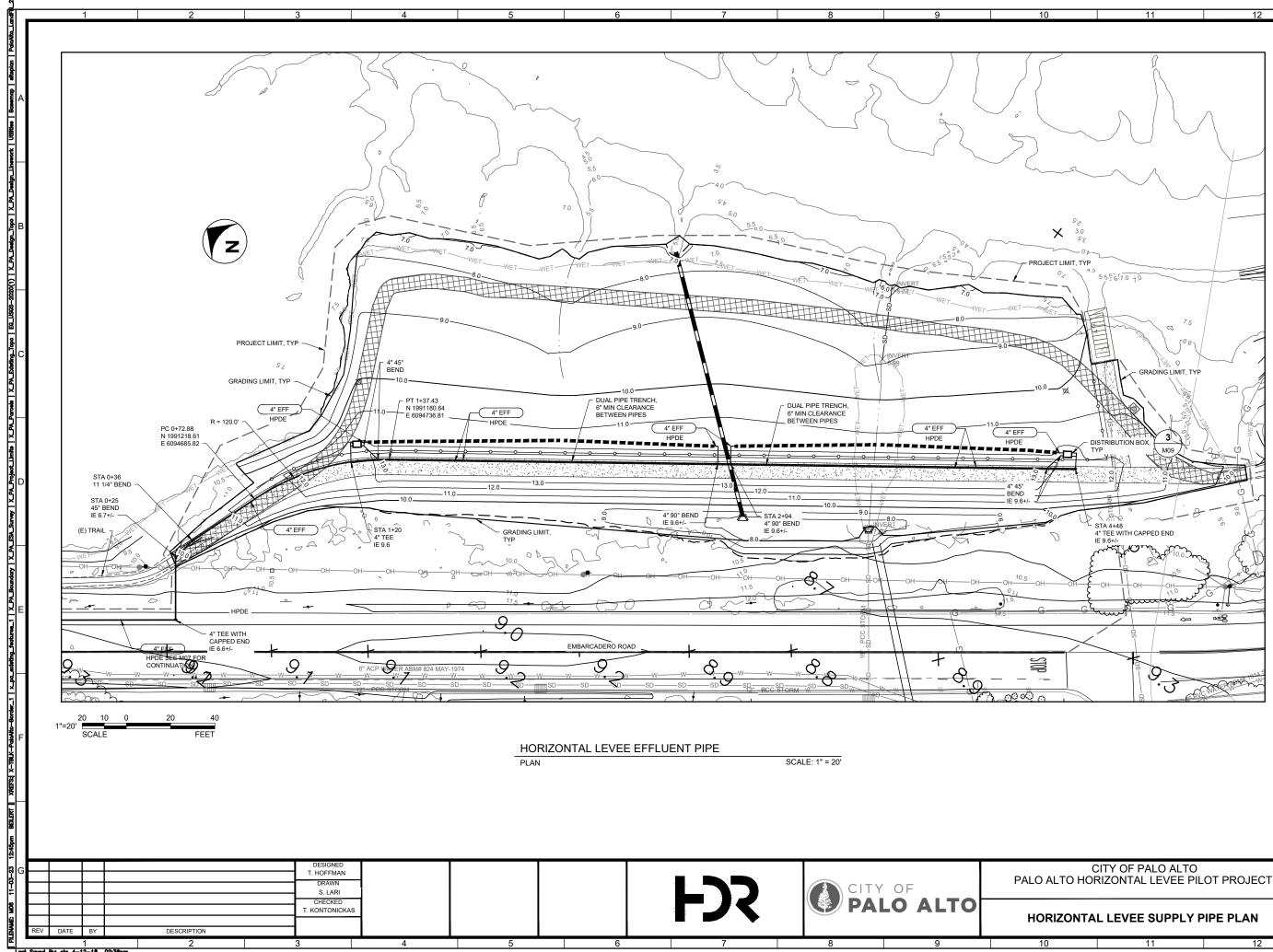


CITY OF PALO ALTO O HORIZONTAL LEVEE PILC		VERIFY SCALES	DATE NOVEMBER 3, 2023	G
	I FROJECI	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.	
		01"	M06	
UENT PIPE PLAN AND PR	•••••	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 34 OF 45	
11	12	13		<u>،</u>

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CITY OF PALO ALTO		VERIFY SCALES	DATE NOVEMBER 3, 2023	G	
	NTAL LEVEE PIL		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.	
			0 - 1"	M07	
YANCE PIPE PLAN AND PROFILE 3			IF NOT ONE INCH ON THIS SHEET, ADJUST	SHEET NO.	
			SCALES ACCORDINGLY	35 OF 45	
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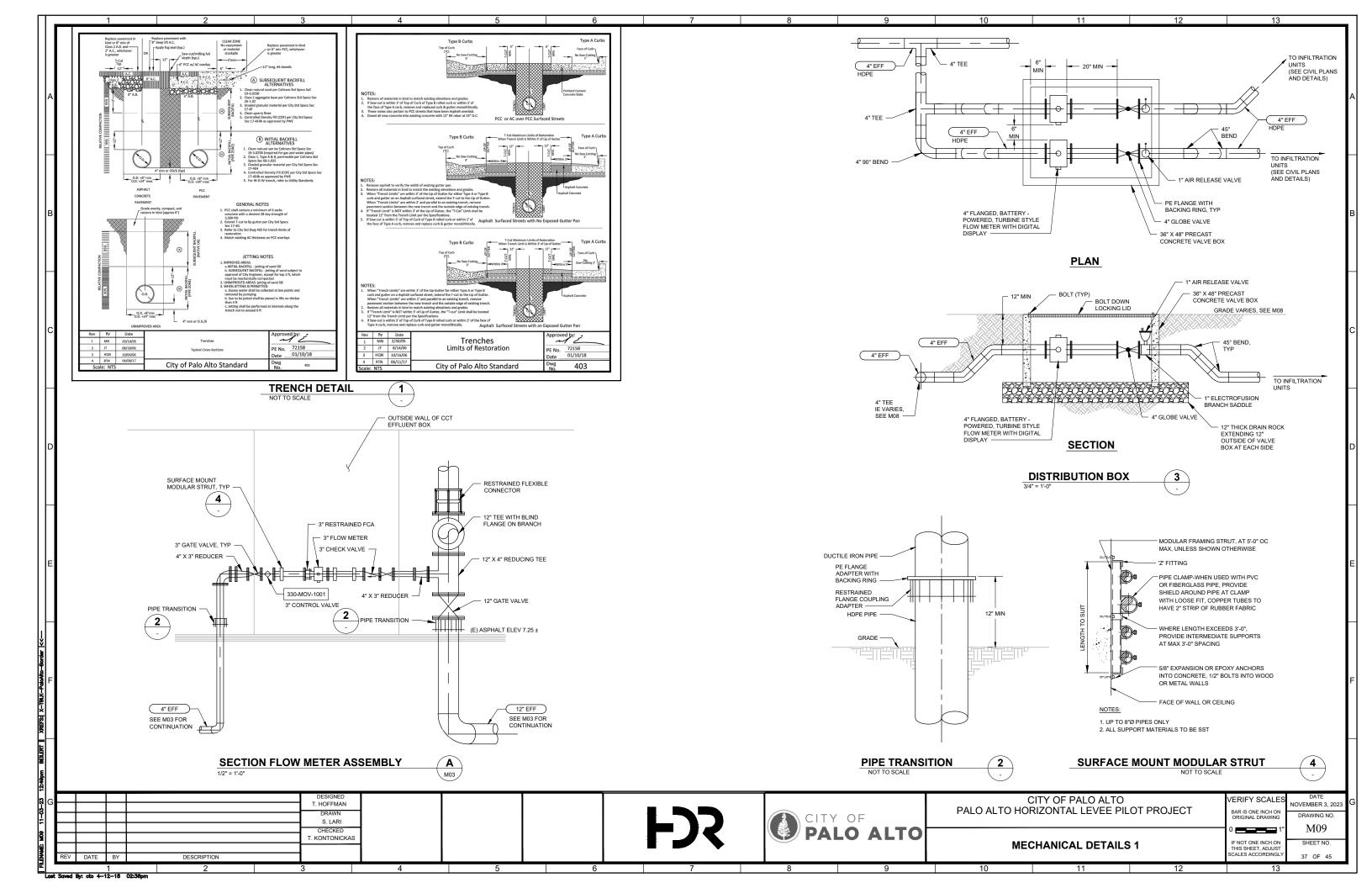


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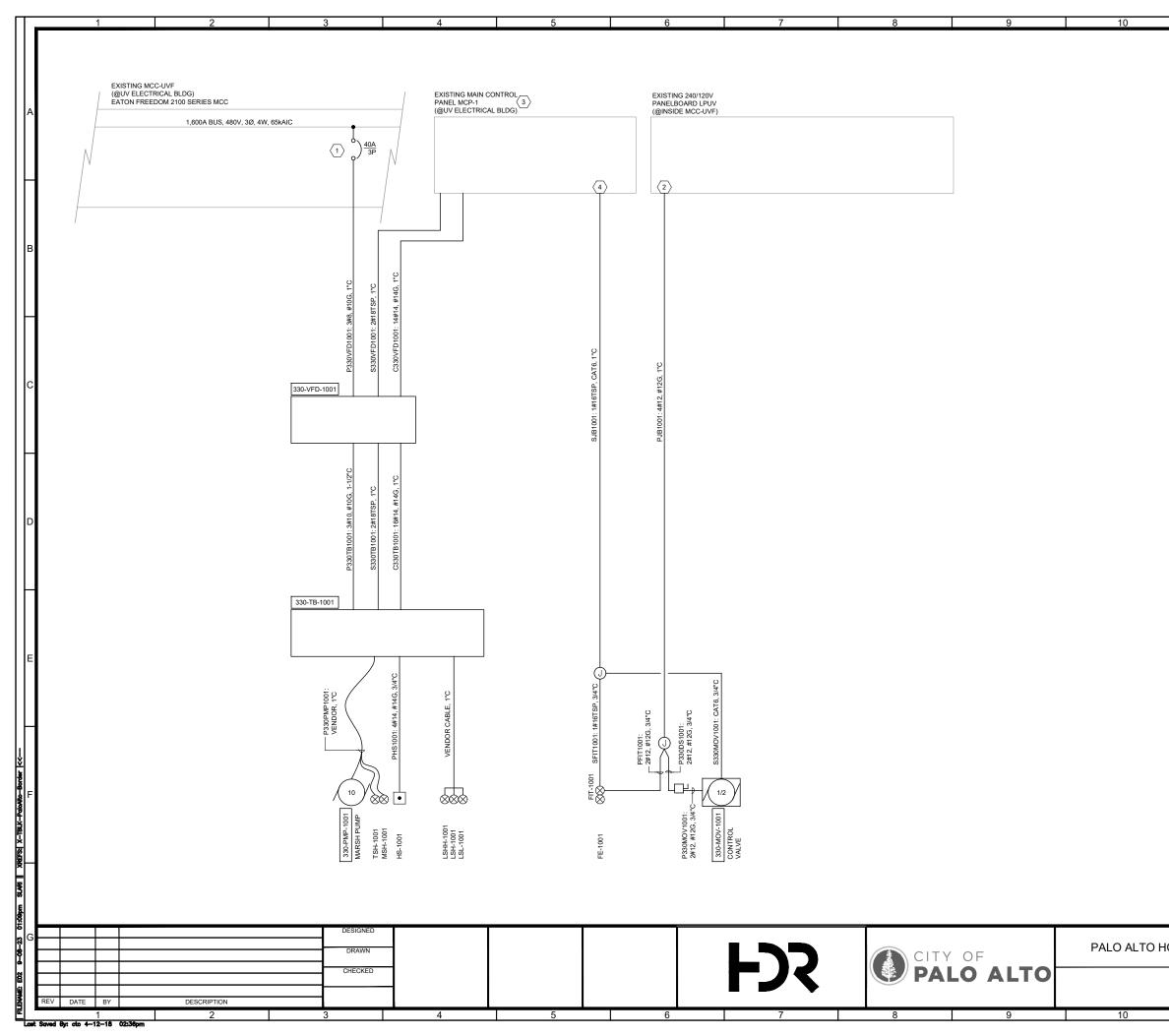
CITY OF PALO ALTO O HORIZONTAL LEVEE PILOT PROJECT		VERIFY SCALES	DATE NOVEMBER 3, 2023	G
O HORIZONTAL LEVEE PIL	UT PROJECT	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.	
		01"	M08	
ONTAL LEVEE SUPPLY F	PIPE PLAN	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 36 OF 45	
11	12	13		

NOTES

- 1. REFER TO CIVIL PLANS FOR GRADING OF LEVEE.
- 2. PROVIDE CONSISTENT SLOPE BETWEEN IDENTIFIED INVERT ELEVATIONS WITHOUT LOCAL HIGH OR LOW POINTS.
- BEDDING AND BACKFILL MATERIAL FOR SINGLE AND DUAL PIPE 3. TRENCH WITHIN LEVEE TO BE CLSM, STA 0+50 TO STA 4+48 THIS SHEET.

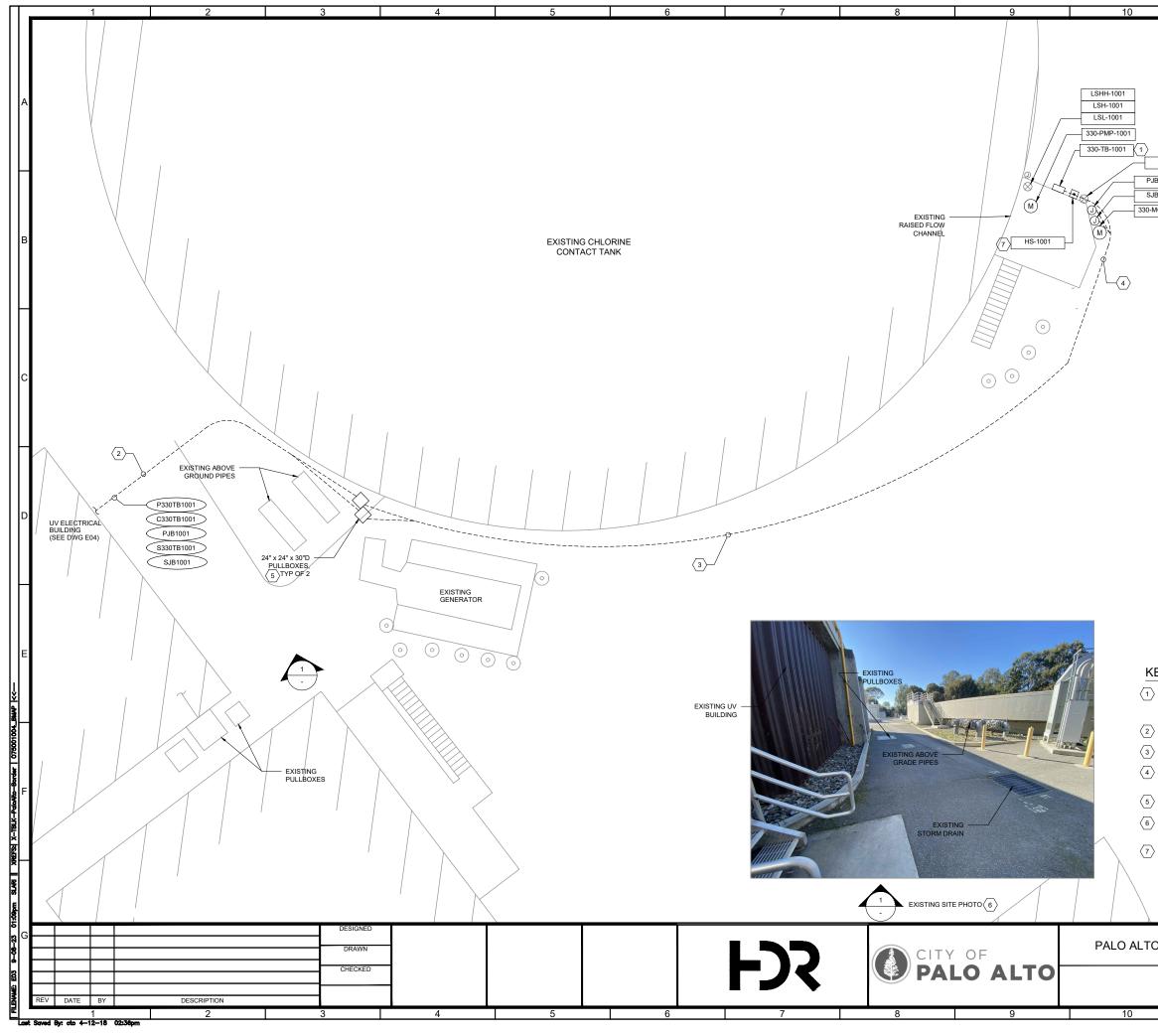


	ONE LINE DIAGRAMS		CONTROL DIAGRAMS		PLAN DRAWINGS	PL	AN DRAWINGS (CONTINUED)	GENERAL NOTES:
••	BUS CONNECTION OR CONNECTED WIRES	M	MOTOR CONTACTOR COIL	CV151	EQUIPMENT TAG		LIGHT FIXTURE IDENTIFICATION FW TYPE PER FIXTURE SCHEDULE 3/35 QTY OF LAMPS PER FIXTURE /	1. THIS DRAWING IS GENERAL IN NATURE. SOME SHOWN HEREON MAY NOT BE USED ON THE CO DRAWINGS.
-	TRANSFORMER	(XX n	XX COIL TYPE: CR - CONTROL RELAY TR - TIMER RELAY	P101A	RACEWAY TAG (SEE DESCRIPTION OF CABLE AND RACEWAY DIAGRAMS ON THIS DRAWING.	6 FW P	LAMP WATTAGE 6 QTY OF THE INDICATED TYPE OF LAMP ON THE DRAWING	 IDENTIFICATIONS (ID), SIZES, RATINGS, LOCATIONS SIMILAR INFORMATION SHOWN ASSOCIATED W SYMBOLS ARE OPTIONAL; EXAMPLES OF SUCH
			n UNIQUE COIL IDENTIFIER		EXPOSED CONDUIT	3/35 8'	P MOUNTING STYLE: P PENDANT	INFORMATION ARE SHOWN WITH SOME SYMBO CLARITY.
AMPS	DISCONNECT	sv	SOLENOID VALVE		CONCEALED, EMBEDDED, OR BURIED CONDUIT		R RECESSED W WALL L POLE	3. THE ELECTRICAL DRAWINGS USE THE ONE LIN DIAGRAMS AND PANEL SCHEDULES IN CONJUN WITH SHOWING THE LOCATION OF THE ELECTR
<u>^</u>		XXn XXn ⊣⊢ →	RELAY CONTACTS (COIL DE-ENERGIZED) XXn RELATED COIL IDENTIFICATION		CONDUIT TURNS UP CONDUIT TURNS DOWN		S SURFACE 8' MOUNTING HEIGHT (BOTTOM OF FIXTURE)	INSTRUMENTATION SOURCES AND LOADS/DEV THE PLAN DRAWINGS TO DEPICT THE WORK. T CONTRACTOR SHALL USE THESE DOCUMENTS DETERMINE AND PROVIDE THE NECESSARY RA
	CIRCUIT BREAKER	(NO) (NC)			CONDUIT CHANGES ELEVATION		FIXTURE CIRCUITING AND SWITCHING 3 PANELBOARD CIRCUIT FEEDING	AND WING SYSTEM FOR EACH CIRCUIT. ALL I RACEWAY SHALL BE RUN EXPOSED, AND ROUT
٥)	COMBINATION MOTOR STARTER MCP AND THERMAL OVERLOAD SIZED BY MANUFACTURER BASED ON SUBMITTED AND	->	SURGE SUPRESSOR	— x —	FENCELINE	3a	THE FIXTURE, TYPICAL OF ALL FIXTURES	THE CONTRACTOR, UNLESS OTHERWISE NOTE TYPE OF RACEWAY AND WIRE USED SHALL BE SPECIFIED.
) MCP n XX	APPROVED MOTOR n NEMA SIZE		HIGH VOLTAGE TERMINATION ASSEMBLY	PBD-094: 20	HOME RUN: DESIGNATIONS INDICATE A ONE-LINE DIAGRAM OR PANELBOARD REFERENCE		a IDENTIFIER FOR THE SWITCH CONTROLLING THE FIXTURE (FIXTURE IS UNSWITCHED OR SELF-SWITCHED IF OMITTED),	 IF EQUIPMENT SUPPLIED BY MANUFACTURER H LARGER LOAD THAN INDICATED ON THE SINGLE DIAGRAM, THE CONSTRUCTION MANAGER SHAI
Я Г	XX TYPE: BLANK FULL VOLTAGE, NON-REVERSING FVR FULL VOLTAGE, REVERSING	n(E)	FUSE n RATING E RATED	,	EXAMPLE: HOME TO PANELBOARD PBD-094, CIRCUIT 20		TYPICAL OF ALL FIXTURES	NOTIFIED. THE CABLE, CONDUIT AND ELECTRIC EQUIPMENT SHALL BE SIZED AS REQUIRED, TO ACCOMMODATE THE HIGHER VALUE.
	2S2W FULL VOLTAGE, 2 SPEED, 2 WINDING	(NC) (NO)		۲	GROUND ROD	Ю	WALL MOUNTED FIXTURE	 IN AREAS WHERE THERE ARE OVERHEAD BRID CRANES, HOISTS, ETC., OR WHERE EQUIPMENT
\otimes	INSTRUMENT OR DEVICE	Lo Lo	FLOW SWITCH CONTACT	۲	GROUND ROD WITH GROUND WELL	•	POLE MOUNTED FIXTURE	AND MOVED FOR MAINTENANCE OR REPLACED CONDUITS SHALL BE RUN OVERHEAD THAT WIL
		000 00	FLOAT TYPE LEVEL SWITCH		GROUND CONNECTION, BOLTED TYPE		EMERGENCY LIGHTING FIXTURE	INTERFERE WITH THE OPERATION OF THE EQU OR ACCESS TO EQUIPMENT.
SPD	SURGE PROTECTION DEVICE	- 0		——•— —— G ——	GROUND CONNECTION, EXOTHERMIC TYPE		ILLUMINATED EXIT SIGN, DARKENED QUADRANTS INDICATE ILLUMINATED FACES, DIRECTIONAL ARROWS INDICATE DIRECTIONAL ARROWS BE	 THE LOCATION OF THE CONTROL STATIONS SH THE PLAN DRAWINGS ARE DIAGRAMMATIC AND ACTUAL LOCATION SHALL BE COORDINATED IN
XX	XX TYPE: VFD VARIABLE FREQUENCY DRIVE RVSS REDUCED VOLTAGE SOLID STATE		TEMPERATURE SWITCH	M	MOTOR		AROWS INDICATE DIRECTIONAL ARROWS BE PROVIDED ON THE ILLUMINATED FACE TOGGLE SWITCH (20A UNLESS OTHERWISE SHOWN)	FIELD WITH THE CONSTRUCTION MANAGER. TH LOCATION OF THE MOTORS AND ACCESSORIES SHOWN.
\frown		olo do	PRESSURE SWITCH	CV	CONTROL VALVE		a UNIQUE SWITCH IDENTIFICATION 3 TYPE:	7. THE CONTRACTOR SHALL COORDINATE WITH T STRUCTURAL AND MECHANICAL DRAWINGS FO CONDUIT STUB UP AND TERMINATION LOCATIO
n	MOTOR LOAD n MOTOR HORSEPOWER	040 00	LIMIT SWITCH		DISCONNECT SWITCH	¢ª	2 DOUBLE POLE 3 3-WAY 4 4-WAY	8. THE STANDARD DETAILS SHALL BE USED WHEF
[]	KW OR KVA RATED EQUIPMENT		2 OR 3 POSITION SELECTOR SWITCH	$\boxtimes^{\!$	COMBINATION MOTOR STARTER. NOT LOCATED IN AN MCC	⁻ ² 3	K KEY OPERATED MC MOMENTARY CONTACT, 3 POSITION	APPLICABLE. 9. ALL EQUIPMENT SHALL BE LABELED WITH NAM PROVIDE A DESCRIPTION OF THE EQUIPMENT
n KW, KVA	n LOAD VALUE IN KW OR KVA		PROVIDE THE NUMBER OF CONTACTS AND CONFIGURATION SHOWN X CONTACT IS CLOSED IN RELATED	•	LOCAL CONTROL STATION		MS MANUAL (MOTOR) STARTER PC PHOTOCELL CONTROLLED R RHEOSTAT (DIMMER.	EQUIPMENT NUMBER ON NAMEPLATES. 10. FOR WIRING AND CABLE INSTALLATION REQUIF
[]	ENCLOSURE OR COMMON SUPPORT FOR	L <u>o 1</u> 0 *	POSITION	⊗ 0	FIELD MOUNTED INSTRUMENT OR DEVICE		SPEED CONTROL) WP WEATHERPROOF	SEE PROJECT SPECIFICATION SECTION 16000. LIGHTING AND RECEPTACLE CONDUITS AND CA NOT SHOWN, THE CONTRACTOR SHALL USE DAMEL ROADD CIPCULT SCIENCIES FOR DROVI
	COLLECTED EQUIPMENT (SKID, BACKBOARD, ETC.)		MOMENTARY PUSHBUTTON, NORMALLY OPENED		HORN		DUPLEX RECEPTACLE (20A, 3 WIRE) 3 PANELBOARD CIRCUIT FEEDING THE RECEPTACLE	PANELBOARD CIRCUIT SCHEDULES FOR PROVI CONDUIT AND CABLE INSTALLATION, SIZE PER
K	KIRK KEY INTERLOCK	o			TELEPHONE OUTLET	GF [₽] 3	GF TYPE:	
CAB	LE AND RACEWAY DIAGRAMS	— <u></u>	MOMENTARY PUSHBUTTON, NORMALLY CLOSED	\triangleright	DATA OUTLET		GF GROUND FAULT WP WEATHERPROOF XP HAZARDOUS (CLASSIFIED)	
EXAMPLES:	CABLE AND RACEWAY IDENTIFICATION	n 	PUSH-TO-TEST INDICATING LAMP X COLOR: G GREEN		CAMERA		EXPLOSION PROOF	
12, #14, 16TSP,	P101A UNIQUE CIRCUIT IDENTIFIER (CABLE AND RACEWAY), LETTER PREFIX	" X	R RED A AMBER W WHITE		TO THE ELECTRICAL DRAWINGS AND MAY NOT IN RE PER ANSI OR IEEE STANDARDS, OR COMMON L		E ABBREVIATIONS USED. OTHER	
P101A: 3# #12G, 1"C C101A: 1-7 3/4"C \$101A: 1#	INDICATES TYPE: P POWER, 120V OR HIGHER C CONTROL, 120V S SIGNAL, LESS THAN 120V		n POINT NUMBER WHERE PUSH-TO-TEST CONNECTS	(K)AIC (1000	VE FINISHED FLOOR DWG DRAW))AMPERE RRUPTING CAPACITY (E), EXIST EXISTI		PB PULLBOX PBD PANELBOARD	SWBD SWITCHBOARD TB TERMINAL BOX
A B C A. SINGLE	X SPARE H HIGH VOLTAGE, OVER 600V	\rightarrow	DISCRETE PLC INPUT OR OUTPUT	BC BARE	E COPPER HH, MH HANDI	HOLE, MANHOLE	PHF PASSIVE HARMONIC FILTER PLC PROGRAMMABLE LOGIC CONTROLLER	TYP TYPICAL VC VENDOR CABLE
A. SINGLECONDUCTORB. MULTI-CONDUCT		DI/DO	DATA/SOFTWARE LINK	CPT CONT	TINUED MCP MOTO TROL POWER	R CONTROL CENT R CIRCUIT PROTE	IER PNL PANEL ICTOR RECP RECEPTACLE	VC VENDOR CABLE
C. TWISTED SHIELD PAIR (OR TRIAD)				TRAN		NAL ELECTRICAL PLATE	CODE REQ'D REQUIRED	
	DESIGNED	-				F	CITY OF PALO A PALO ALTO HORIZONTAL LEVE	
	CHECKED					ALTC		01"

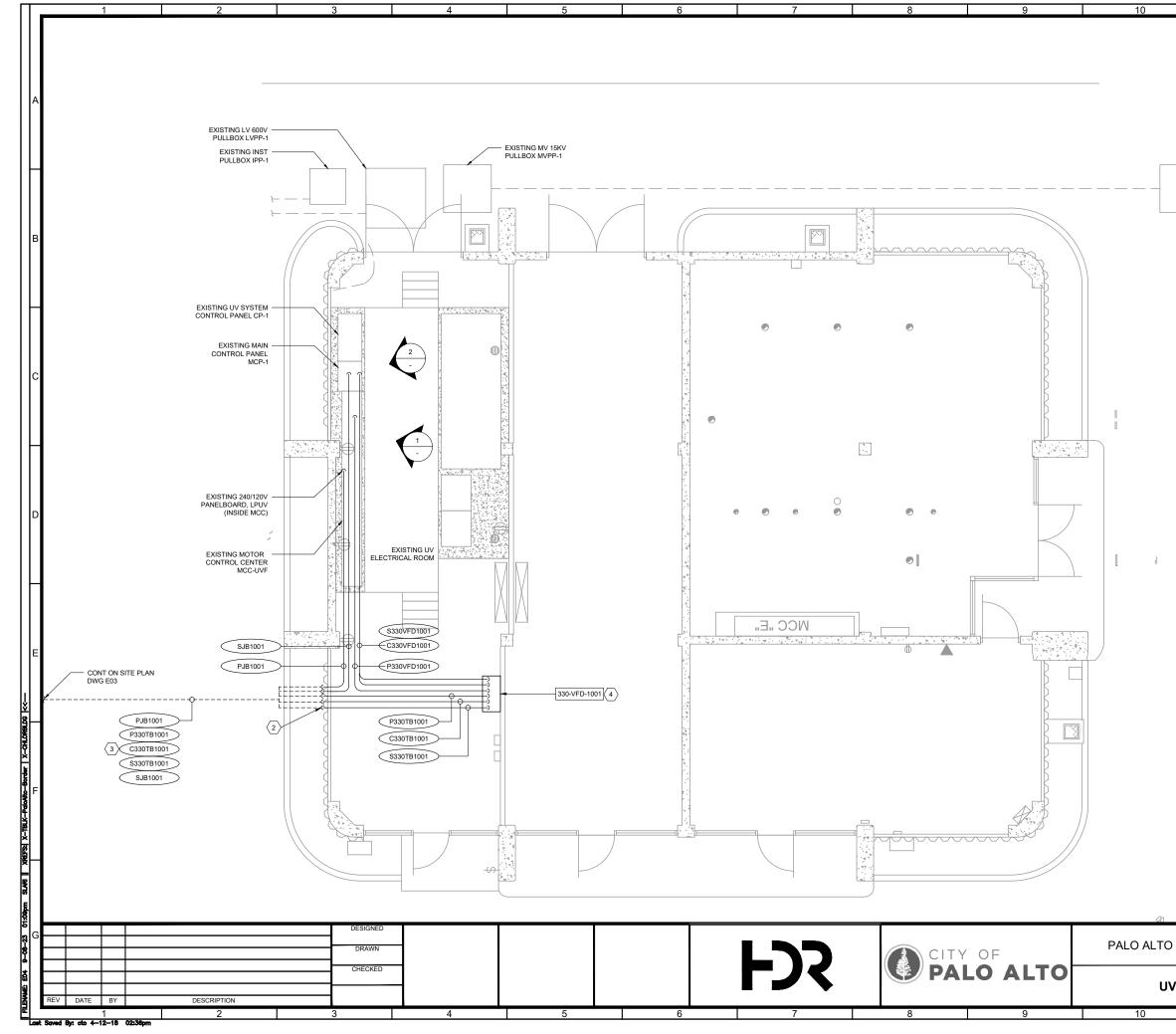


11	12	13		
KEYNOTES				
(1) INSTALL 40A CIRCU ON DWG E4.	JIT BREAKER IN EXISTING M	CC, REFER TO KEYNOTE 1		
	UIT BREAKERS TO MATCH E DARD. PROVIDE NAMEPLATI		A	
	SPARE I/O CARD SPACE FOF I DWG P2 FOR I/O REQUIRED			
	E WITH PLUG TO THE EXISTI XISTING PLC PANEL.	ING ETHERNET SWITCH	_	
			в	
			с	
			D	
			U	

CITY OF PALO ALTO D HORIZONTAL LEVEE PIL	VERIFY SCALES	DATE NOVEMBER 3, 2023	G	
	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.		
		0	E02	
ONE LINE DIAGRAM	IF NOT ONE INCH ON THIS SHEET, ADJUST	SHEET NO.		
	SCALES ACCORDINGLY	39 OF 45		
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11	12	13		٦
FIT-1001 B-1001 MOV-1001	EXISTING CHEMICAL TREATMENT CANOPY			А
				C
EYNOTES MOUNT TERMINAL BOX AND JUNCTION BO SHALL BE NEMA 4X, 316 STAINLESS STEEL PIANO-TYPE HINGE AND THREE-POINT LAT STEEL AND BE A MINIMUM OF 12* 12* 81 SAW CUT EXISTING PAVEMENT AND CONC TANK, AS SHOWN ON THE SITE PLAN. REP ROUTE CONDUITS UNDERGROUND A MIN O RIVER ROCK AND DIRT THAT WILL NEED TO THERE IS EXISTING EQUIPMENT AND CONC ROUTE CONDUITS AS REQUIRED TO REAC TANK WALL, AND ROUTE EXPOSED AS REC PROVIDE TWO PULLBOXES. ONE FOR POV DETERMINE IN THE FIELD THE OPTIMAL LO DETERMINE IN THE FIELD THE OPTIMAL AND ROUTE OPTIMAL AND ROUTE OPTIMAL DETERMINE IN THE AR	AND BE A MINIMUM OF 24" x 24" x 1 CH. JUNCTION BOXES SHALL BE N), SCREW COVERS. RETE AS REQUIRED TO ROUTE CO AIR PAVEMENT OR CONCRETE TO)F 24", AROUND THE EXISTING TAN 0 BE REMOVED OR RELOCATED FO CRETE INSTALLED IN THE AREA. CO H ALL NEW EQUIPMENT. CONTRAC JURED. EXPOSED CONDUIT SHALL VIER AND CONTROL AND ONE FOR S CATION OF PULLBOXES. EA ROADWAY. CONTRACTOR SHALL I S FIELD CONDITIONS.	2"D. PROVIDE WITH EMA 4X, 316 STAINLES NDUITS OVER TO THE MATCH EXISTING. K. THERE IS EXISTING R TRENCHING. DNTRACTOR SHALL FII TOR MAY DAYLIGHT T. BE GRS. SIGNAL. CONTRACTOF LL IDENTIFY ALL EXIST FIELD ROUTE CONDUIT	S ELD O R TO ING IS	E F
CITY OF PALO ALTO D HORIZONTAL LEVEE PIL		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 11 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY 13	DATE NOVEMBER 3, 2023 DRAWING NO. E03 SHEET NO. 40 OF 45	G



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KEYNOTES

- (1) PROVIDE 40A CIRCUIT BREAKER AND INSTALL INSIDE EXISTING MCC BUCKET SPACE. PROVIDE EQUIPPED SPACE AS REQUIRED. PROVIDE NAMEPLATE FOR BREAKER.
- 2 CORE DRILL THRU EXISTING STEEL WALL OF UV BUILDING. SEAL AROUND CONDUIT WITH FOAM. CONTRACTOR MAY NEED TO COME OUT OF THE CONCRETE WALL AND CORE DRILL THRU THE EXISTING CONCRETE WALL. SEAL AROUND CONDUITS WITH NON-SHRINK GROUT AND PAINT TO MATCH EXISTING.
- 3 SAW CUT EXISTING PAVEMENT AND CONCRETE AS REQUIRED TO ROUTE CONDUITS OVER TO THE TANK, AS SHOWN ON THE SITE PLAN. REPAIR PAVEMENT OR CONCRETE TO MATCH EXISTING.
- MOUNT THE VFD ON THE EXISTING WALL AT +48" AFF. WHERE REQUIRED, PROVIDE A NEMA 1 WIREWAY ABOVE THE VFD. CONDUCTORS CAN BE COMBINED IN ONE CONDUIT FROM WIREWAY TO VFD, POWER AND CONTROL SEPARATE FROM SIGNAL OR DATA.

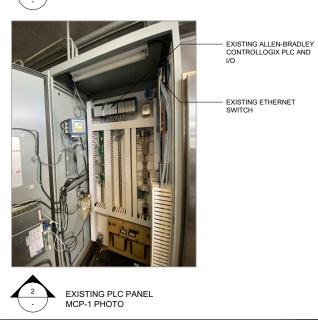


EXISTING MCC PHOTO

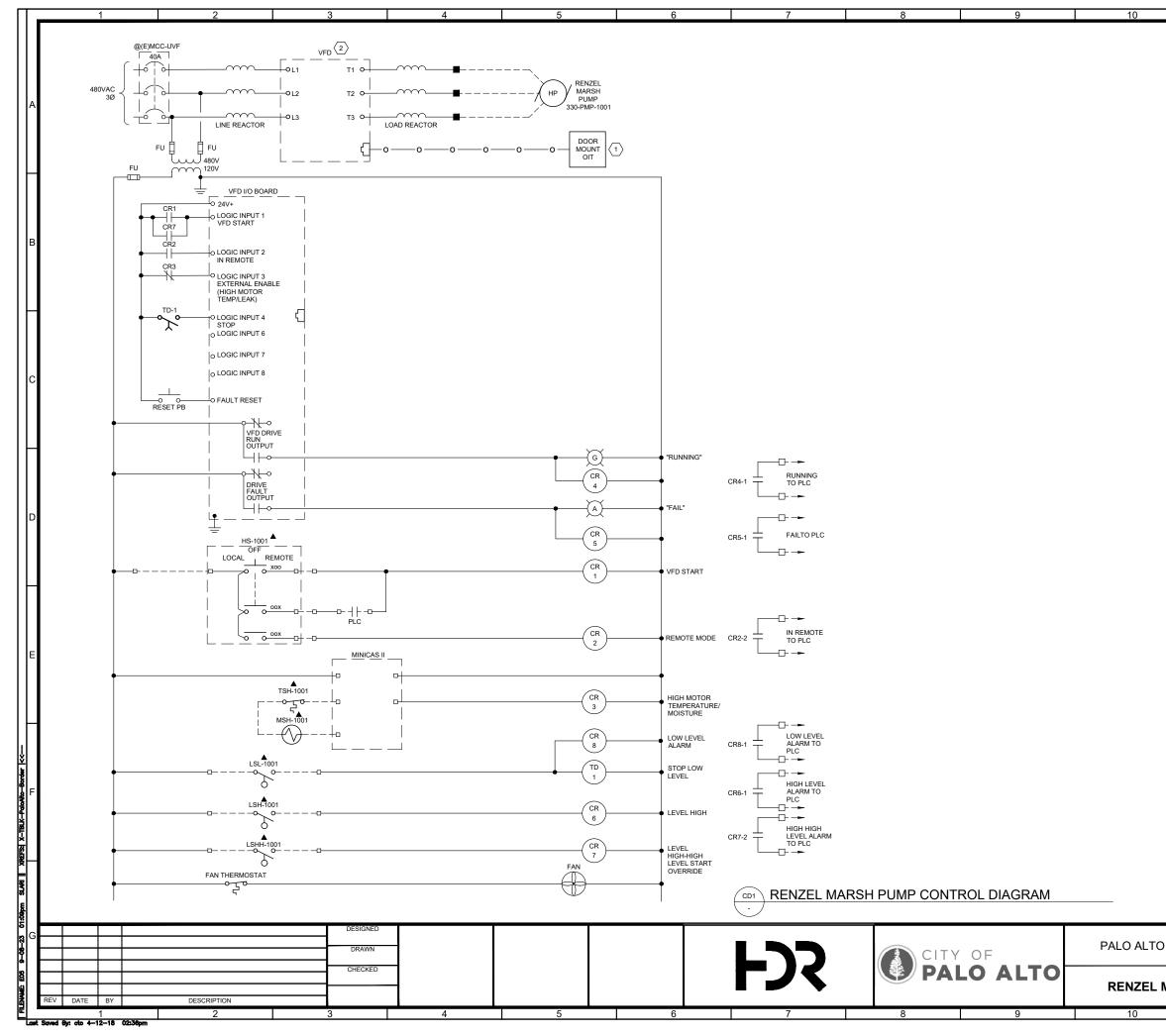
1

- EXISTING MAIN CONTROL PANEL MCP-1

EXISTING MOTOR CONTROL CENTER 1 SPACE



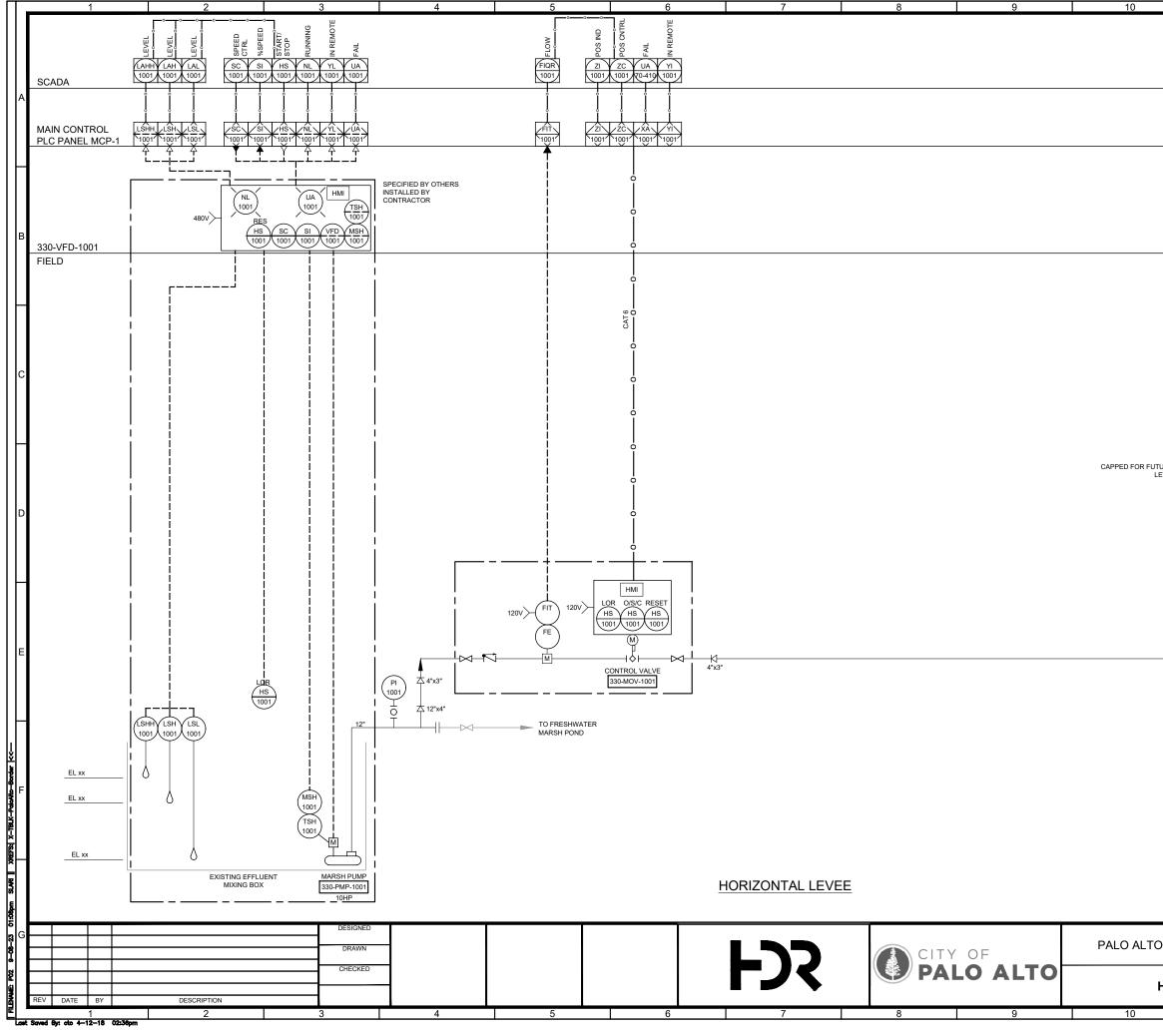
			VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING	NOVEMBER 3, 2023 DRAWING NO.	G
/ ELECTRICAL ROOM PLAN			0 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	E04 SHEET NO. 41 OF 45	
	11	12 13			



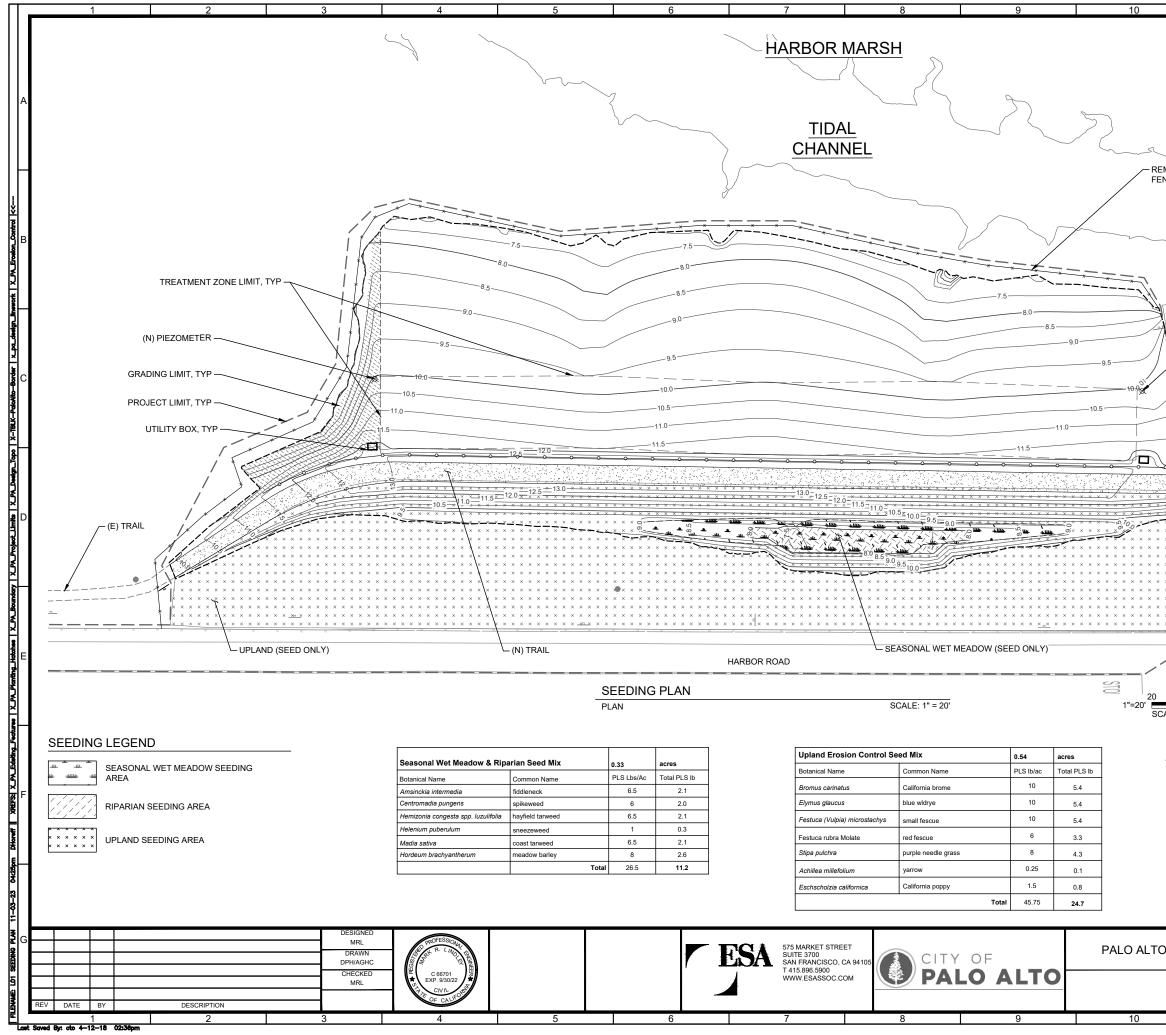
 11	12		13		1
G	ENERAL NOTI	ES			
1.	PROVIDE ALL COMPONEN COMPLETE AND FUNCTIO CONTROL LOOP DESCRII	NING SYSTEM		A	
	ALL DEVICES ARE LOCAT OTHERWISE NOTED.				
3.			TO THEIR MANUFACTURERS HEIR RECOMMENDATIONS		
4.	CONTACTS SHOWN IN DE	-ENERGIZED S	STATE.		
K	EYNOTES				
1. 2.			WITH STANDARD EQUIPMENT	В	
	AND FILTERS.				
				с	
					1
				D	
				E	
				F	
			D CATES TERMINAL		
		CONI	ATES TERMINAL NECTION IN VFD ATES FIELD WIRING		
			ATES EQUIPMENT LOCATED IN //REMOTE FROM VFD		

CITY OF PALO ALTO HORIZONTAL LEVEE PII	VERIFY SCALES	DATE NOVEMBER 3, 2023	G	
	BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.		
			E05	
MARSH PUMP CONTRO	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 42 OF 45		
11	12	13		

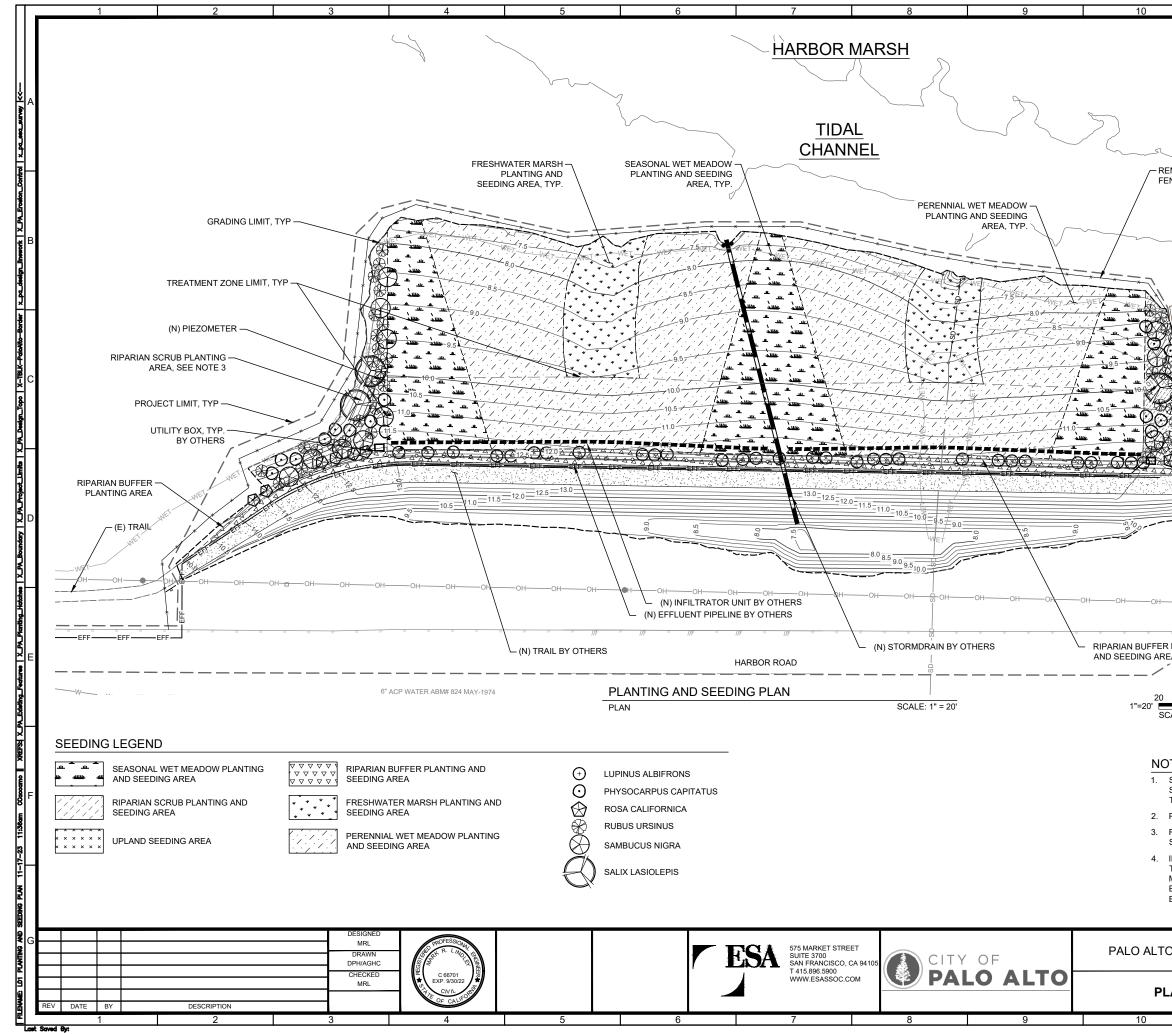
1 2 3	4 5 6	7 8	9 10	11 12 13
INSTRUMENT SYMBOLOGY	INSTRUMENT IDENTIFICATION LETTERS	CONTROL SWITCH NOTATION	PROCESS AND INSTRUM	IENTATION ABBREVIATIONS
LOCALLY MOUNTED FIELD INSTRUMENTATION	FIRST LETTER SUCCEEDING LETTERS MEASURED OR INITIATING READOUT OR MODIFIER OUTPUT FUNCTION MODIFIER	ABBREVIATIONS	3W CHLORINATED PLANT WATER 4W NON-CHLORINATED PLANT WATER ABI AERATION BASIN INFLUENT	OF OVERFLOW OG OFF GAS OI OPERATOR INTERFACE P&ID PROCESS AND INSTRUMENTATION DIAGRAM
A MOUNTED ON PANEL FRONT	VARIABLE FUNCTION A ANALYSIS ALARM	ESTOP EMERGENCY STOP FAIL FAILURE FOR FORWARD-OFF-REVERSE	AI ANALOG INPUT AO ANALOG OUTPUT BNR BIOLOGICAL NITROGEN REMOVAL BSCR BANDSCREEN	PD PLANT DRAIN PE PRIMARY EFFLUENT PERM PERMEATE
MOUNTED INSIDE PANEL	B BURNER, COMBUSTION C C CONTROL CLOSED	FR FORWARD-REVERSE FS FAST-SLOW HA HAND-AUTO	BYP BYPASS CA COMPRESSED AIR CHEMD CHEMICAL DRAIN	PI PRIMARY INFLUENT PSC PRIMARY SCUM PMP PUMP POL POLYMER
FRONT PANEL MOUNTED ON AUXILIARY PANEL (SUBSCRIPT INDICATES PANEL)	D DIFFERENTIAL	HOA HAND-OFF-AUTO HOR HAND-OFF-REMOTE HSE EMERGENCY STOP	CL2 CHLORINE (ANALYZER MODIFIER) CLS CHLORINE SOLUTION CMP COMPACTOR	POL POLINIER POTW POTABLE WATER PS PRIMARY SLUDGE PW PLANT WATER
	E VOLTAGE SENSOR (PRIMARY ELEMENT)	LL LEAD-LAG LLS LEAD-LAG-STANDBY LOR LOCAL-OFF-REMOTE	CND CONDENSER COND CONDUCTIVITY (ANALYZER MODIFIER) CS CONTACT STABILIZATION	RAS RETURN ACTIVATED SLUDGE REC RECIRCULATION RS RAW SEWAGE
PILOT LIGHT	F FLOW RATE RATIO (FRACTION) G GLASS, VIEWING DEVICE	LR LOCAL-REMOTE LS LEAD-STANDBY MA MANUAL-AUTO	CSL CAUSTIC SOLUTION CW CITY WATER D DRAIN DEN DENSITY	RW RECLAIMED WATER SAM SAMPLE SBS SODIUM BISULFATE SC SCUM
в	H HAND HIGH	OAC OPEN-AUTO-CLOSE OC OPEN-CLOSE OO ON-OFF	DG DIGESTER GAS DI DIGITAL INPUT DO DIGITAL OUTPUT	SC SCOM SCR SCREENINGS SD SANITARY DRAIN SE SECONDARY EFFLUENT
INSTRUMENT FUNCTIONS SHARING COMMON HOUSING	I CONTENT I (ELECTRICAL) I POWER SCAN	OSC OPEN-STOP-CLOSE RJ RUN-JOG RJR RUN-JOG-REVERSE	DO DISSOLVED OXYGEN (ANALYZER MODIFIER) DS DIGESTED SLUDGE E/P VOLTAGE TO PNEUMATIC	SEW SEWER SHC SODIUM HYPOCHLORITE SI SECONDARY INFLUENT
COMPLEX INTERLOCK AS DEFINED IN CONTROL DIAGRAM OR IN SPECIFICATIONS	K TIME, TIME TIME; RATE OF CONTROL STATION	SIL SILENCE	FA FOUL AIR FD FLOOR DRAIN FECL3 FERRIC CHLORIDE	SLG SLIDE GATE, SLUICE GATE SN SUPERNATANT SO SLOPE OIL SO SLOPE OIL
SHARED DISPLAY, SHARED CONTROL, FIELD MOUNTED	L LEVEL LIGHT LOW MOMENTARY MIDDLE,		FE FILTER EFFLUENT FF FILTER FEED FO FUEL OIL FW FEED WATER	SOD SLOPE OIL DRAIN SS SUSPENDED SOLIDS (ANALYZER MODIFIER) SWR SOFTENED WATER T TANK
SHARED DISPLAY, SHARED CONTROL AT PRIMARY LOCATION - NORMALLY ACCESSIBLE TO OPERATOR (SCADA WORKSTATION)	N	O ARV = AIR RELEASE VALVE VAC = VACUUM	FW FEED WATER GR GRI GTSL GRAVITY THICKENED SLUDGE HPA HIGH PRESSURE AIR	TS THICKENED SLUDGE TURB TURBIDITY (ANALYZER MODIFIER) TWAS THICKENED WASTE ACTIVATED SLUDGE
C SHARED DISPLAY, SHARED CONTROL AT	ORIFICE, RESTRICTION PRESSURE, POINT (TEST)	BV - BALL VALVE	HW HOT WATER HWR HOT WATER RETURN HWS HOT WATER SUPPLY	V VENT WAS WASTE ACTIVATED SLUDGE WW WASH WATER
AUXILLIARY LOCATION - NORMALLY ACCESSIBLE TO OPERATOR (IPC, HMI)	P VACUUM CONNECTION Q QUANTITY INTEGRATE, TOTALIZE INTEGRATE,		I/O INPUT/OUTPUT I/P CURRENT TO PNEUMATIC IA INSTRUMENT AIR LCP LOCAL CONTROL PANEL	
PROGRAMMABLE LOGIC CONTROL, PRIMARY LOCATION - NORMALLY INACCESSIBLE TO OPERATOR	R RADIATION RECORD S SPEED, SP		LO LUBE OIL LOX LIQUID OXYGEN LPA LOW PRESSURE AIR	-
PRIMARY ELEMENT SYMBOLOGY	T TEMPERATURE TRANSMIT	DDCV - DOUBLE-DISK CHECK VALVE	LPDG LOW PRESSURE DIGESTER AIR LSG LOW PRESSURE SLUDGE GAS MA MURIATIC ACID ML MIXED LIQUOR	
MAGNETIC FLOWMETER	U MULTIVARIABLE MULTIFUNCTION MULTIFUNCTION MULTIFUNCTION V VIBRATION, MECH. ANALYSIS VALVE DAMPER, LOUVER VALVE DAMPER, LOUVER	DV - DIAPHRAGM VALVE	MXR MIXER N2 NITRGEN GAS NC NORMALLY CLOSE	
D PROPELLER TYPE FLOWMETER	w WEIGHT, FORCE WELL x x-AXIS	GV - GATE VALVE	NG NATURAL GAS NO NORMALLY OPEN OF OVERFLOW	
FLUME	Y EVENT, STATE OR PRESENCE Y-AXIS RELAY, COMPUTE, CONVERT	GLV - GLOBE VALVE	LINE TYPES	CROSS REFERENCE SYMBOLOGY
FG SIGHT FLOW GLASS	z POSITION, DIMENSION Z-AXIS DRIVER, ACTUATOR UNCLASSIFIED FINAL CONTROL	KGV - KNIFE GATE VALVE	MAIN PROCESS LINE SECONDARY PROCESS LINE	-
	ACTUATOR SYMBOLOGY TYPES OF POWER SUPPLY		AUXILIARY PROCESS LINE	P1 CONTINUATION FROM DRAWING P1
		PV - PLUG VALVE	PNEUMATIC SIGNAL	E
	X OPERATOR ABBREVIATIONS: M = MOTOR A PLANT COMPRESSED AIR M = MOTOR IA INSTRUMENT AIR P = PNEUMATIC ES ELECTRICAL SUPPLY	PRV - PRESSURE-REDUCING VALVE	ELECTRICAL SIGNAL 480V POWER	← P2 CONTINUATION TO DRAWING P2
	S = SOLENOID NG NATURAL GAS FLOAT OPERATOR HYD HYDRAULIC		HYDRAULIC SIGNAL	GENERAL NOTES
	AC > 120VAC POWER SINGLE-ACTING PNEUMATIC CYLINDER 480 > 480VAC POWER		SOFTWARE OR DATA LINK	 THIS IS A STANDARD INSTRUMENTATION SYMBOLOGY AND ABBREVIATIONS SHEET. LISTING OF SYMBOLS AND ABBREVIATIONS DOES NOT IMPLY ALL SYMBOLS AND ABBREVIATIONS HAVE BEEN USED ON THIS PROJECT.
CENTRIFUGAL PUMP	DOUBLE-ACTING DC > 24VDC POWER		CROSSOVER - NO CONNECTION	 SEE PROCESS, MECHANICAL AND PLUMBING LEGEND DRAWINGS FOR MISCELLANEOUS PIPING SYMBOLS.
	PLC INTERFACES	S SOLENOID VALVE	CAPILLARY	 SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH DRAWING FOR USAGE.
∐	PNEUMATIC DIAPHRAGM	M MOTOR OPERATOR	— ● — ● — MECHANICAL LINK — E — E — E THERNET I/O DATA LINK	 VALVE SYMBOLS SHOWN HERE ARE APPLICABLE ONLY TO INSTRUMENTATION DIAGRAMS. SEE PROCESS, MECHANICAL AND PLUMBING LEGEND SHEET FOR VALVE SYMBOLS USED ELSEWHERE ON THE DRAWINGS.
M MOTOR	r (4-20mA DC)	OPEN/CLOSE M MOTOR OPERATOR	D D DEVICENET DATA LINK S S SERIAL RS232 LINK	
HYDROSTATIC LEVEL PROBE	CALCENT ADDISCRETE I DISCRETE INPUT I OUTPUT I (24VDC) V (DRY CONTACT I (24VDC) V (DRY CONTACT	ANTI SIPHON VALVE	— F0 — F0 — FIBER OPTIC	
	1 (2440C) V 120VAC)			
G	DESIGNED			PALO ALTO VERIFY SCALES DATE NOVEMBER 3, 2023
	CHECKED	HOR CITY OF PALO	ALTO	original drawing Drawing NO.
REV DATE BY DESCRIPTION			SYMBOLS	AND LEGEND IF NOT ONE INCH ON SHEET NO. THIS SHEET, ADJUST SCALES ACCORDINGLY 43 OF 45
1 2 3 Last Saved By: oto 4-12-18 02:36pm	4 5 6	7 8	9 10	11 12 13



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لم 4*x3* المعالي ANALOG FU METER,	AND	F
CITY OF PALO ALTO O HORIZONTAL LEVEE PILOT PROJECT HORIZONTAL LEVEE FEED	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 0 11 F NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY 13	G



11 12 13	
	А
REMOVE TEMPORARY ENVIRONMENTAL PROTECTION ENCE AT CONCLUSION OF WORK	в
(N) FENCE (N) SIGN, TYP (E) TRAIL	с
	D
0 10 0 20 40 SCALE FEET	E
NOTE 1. INCORPORATE SEED INTO SOIL WITH A SHEEPSFOOT ROLLER. SEE SPECS.	F
CITY OF PALO ALTO O HORIZONTAL LEVEE PILOT PROJECT SEEDING PLAN VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING NO. DRAWING NO. U LO1 IF NOT ONE INCH ON SCALES ACCORDINGLY A5 OF 45	G
Scales AccordingLY 45 OF 45 11 12 13	



	11	12	13		
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		AL PROTECTION			
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R PLANT REA, TYP					Е
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OTES					
SEEDIN	HE BAY SHALL PROPAGATE NG SHOW ON SHEET L01 ANE GREEMENT BETWEEN SAVE	MAINTAIN ALL SEEDING SH	OWN ON SHEET L	_04 PER	F
PLANT	HERBACEOUS CONTAINER F	PLANTS IN GROUPS OF 7-11	OF THE SAME SPE		
SEE SH	AN SCRUB SEEDING AND ER IEETS L05 AND L06.				
TEMPO	L TEMPORARY IRRIGATION S PRARY IRRIGATION TO BE SU W, AND SEASONAL WET ME	IPPLIED TO FRESHWATER M	ARSH, PERENNIA	L WET	
EFFLUE	ENT SUPPLY LINE IS ONLINE. LISH PLANTS IN ALL PLANTIN	SUPPLEMENTAL IRRIGATIO			
				DATE	
O HOF	CITY OF PALO ALTO RIZONTAL LEVEE PIL		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING	NOVEMBER 10, 2023 DRAWING NO.	G
	VEGETATION PLANS		01"	L01	
	ING AND SEEDING		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 2 OF 5	
	11	12	13		

* * * * *	**	Freshwater Marsh				0.07	acres
* * * * * *	*	Botanical Name	Common Name	Form/Container	Spacing	Quantity	Notes
		Eleocharis macrostachya	common spikerush	plug	3 FT OC	24	plant in groups of 5-7
		Juncus effusus	soft rush	plug	3 FT OC	12	plant in groups of 11-13
		Helianthus californicus	California sunflower	deepot	4 FT OC	2	
Herbaceous/Sedges, Rushes	ges,	Schoenoplectus americanus	three-square bulrush	plug	3 FT OC	46	
	Schoenoplectus acutus	hardstem tule	plug	4 FT OC	145		
	Typha latifolia	broadleaf cattail	plug	3 FT OC	2	one container per planting area	
			•		Total	231	

Form/Container

deepot

deepot

plug

plug

plug

deepot

deepot

deepot

deepot

plug

plug

deepot

sod fragment

Spacing

3 FT OC

5 FT OC

3 FT OC

3 FT OC

3 FT OC

3 FT OC

4 FT OC

3 FT OC

3 FT OC

4 FT OC

3 FT OC

3 FT OC

3 FT OC

Total

4

5

0.36

<u>Quantity</u>

80

107

320

107

213

53

160

27

27

53

320

53

53 1,573 acres

Notes

6

1

lerbaceous/Sedges Rushes

2

Perennial Wet Meadow

Botanical Name

Artemisia douglasiana

Baccharis glutinosa

Carex barbarae

Carex praegracilis

Elymus triticoides

Glycyrrhiza lepida

Juncus balticus

Juncus effusus Symphyotrichum lentum

Euthamia occidentalis

Helenium puberulum

Helianthus californicus

Eleocharis macrostachya

3

Common Name

saltmarsh baccharis

clustered field sedge

common spikerush

creeping wild rye

wild licorice

sneezeweed California sunflower

baltic rush

soft rush

Suisun marsh aster

western goldenrod

mugwort

basket sedge

, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·	Riparian Buffer
	* * * * * * * * * * * * * * * * * * *	Botanical Name
		Baccharis glutinosa
	Shrubs	Rosa californica
	Sillubs	Lupinus albifrons
	Herbaceous	Symphyotrichum chilense
	nerbaceous	

Seed Mix - Freshwater Marsh and Perennial Wet Meadow		0.43	acres
Botanical Name	Common Name	PLS Lbs/Ac	Total PLS lb
Bidens frondosa	devil's beggartick	2.5	1.1
Epilobium ciliatum	willow-herb	10	4.3
Persicaria punctata	dotted smartweed	12.5	5.4
Hordeum brachyantherum	meadow barley	8	3.4
	Tota	I 25	14.2

Common Name marsh baccharis California rose Silver lupine

common aster

Scrub/Buffer	-	0.26	acres
Botanical Name	Common Name	PLS Lbs/Ac	Total PLS lb
Amsinckia intermedia	fiddleneck	6.5	1.7
Centromadia pungens	spikeweed	6	1.6
Hemizonia congesta spp. luzulifolia	hayfield tarweed	6.5	1.7
Helenium puberulum	sneezeweed	1	0.3
Madia sativa	coast tarweed	6.5	1.7
Hordeum brachyantherum	meadow barley	8	2.1
	Total	26.5	9.0

Seed Mix - Upland	0.54	acres	
Botanical Name	PLS lb/ac	Total PLS lb	
Bromus carinatus	California brome	10	5.4
Elymus glaucus	blue wldrye	10	5.4
Festuca (Vulpia) microstachys	small fescue	10	5.4
Festuca rubra Molate	red fescue	6	3.3
Stipa pulchra	purple needle grass	8	4.3
Achillea millefolium	yarrow	0.25	0.1
Eschscholzia californica	California poppy	1.5	0.8
	Total	45.75	24.7

) 		Riparian Scrub				0.03	acres
		Botanical Name	Common Name	Form/Container	Spacing	Quantity	Notes
	Trees	Salix lasiolepis	arroyo willow	tp-4	10 - 15 FT OC	3	peripheral slopes only
	Trees				Total	3	
		Physocarpus capitatus	ninebark	deepot	8 - 10 FT OC	15	plant on margins - away from canopy
	Shrubs	Rubus ursinus	California blackberry	deepot/sprig	3 FT OC	60	understory with C. barbarae
	Shrubs	Sambucus nigra	black elderberry	tp-4	8 - 15 FT OC	13	peripheral slopes only
					Total	88	
ſ	Sedges	Carex barbarae	basket sedge	plug/division	3 FT OC	80	understory with blackberry
					Total	80	

x	Seasonal Wet Meadow				0.18	acres
* * * * * * * * * *	Botanical Name	Common Name	Form/Container	Spacing	Quantity	Notes
<u> </u>	Ambrosia psilostachya	western ragweed	sod fragment	3 FT OC	10	
	Artemisia douglasiana	mugwort	deepot	3 FT OC	20	
	Baccharis glutinosa	marsh baccharis	deepot	3 FT OC	60	
	Carex barbarae	basket sedge	plug/division	3 FT OC	120	
	Carex praegracilis	clustered field rush	plug/division	3 FT OC	40	
Herbaceous/	Elymus triticoides	creeping wild rye	sod fragment	3 FT OC	160	
Sedges, Rushes	Euthamia occidentalis	western goldenrod	deepot	4 FT OC	40	
	Glycyrrhiza lepida	wild licorice	deepot	3 FT OC	10	
	Helianthus californicus	California sunflower	deepot	4 FT OC	20]
	Juncus mexicanus	Mexican rush	plug/division	3 FT OC	80	
	Symphyotrichum chilense	common aster	deepot	3 FT OC	40]
				Total	600	

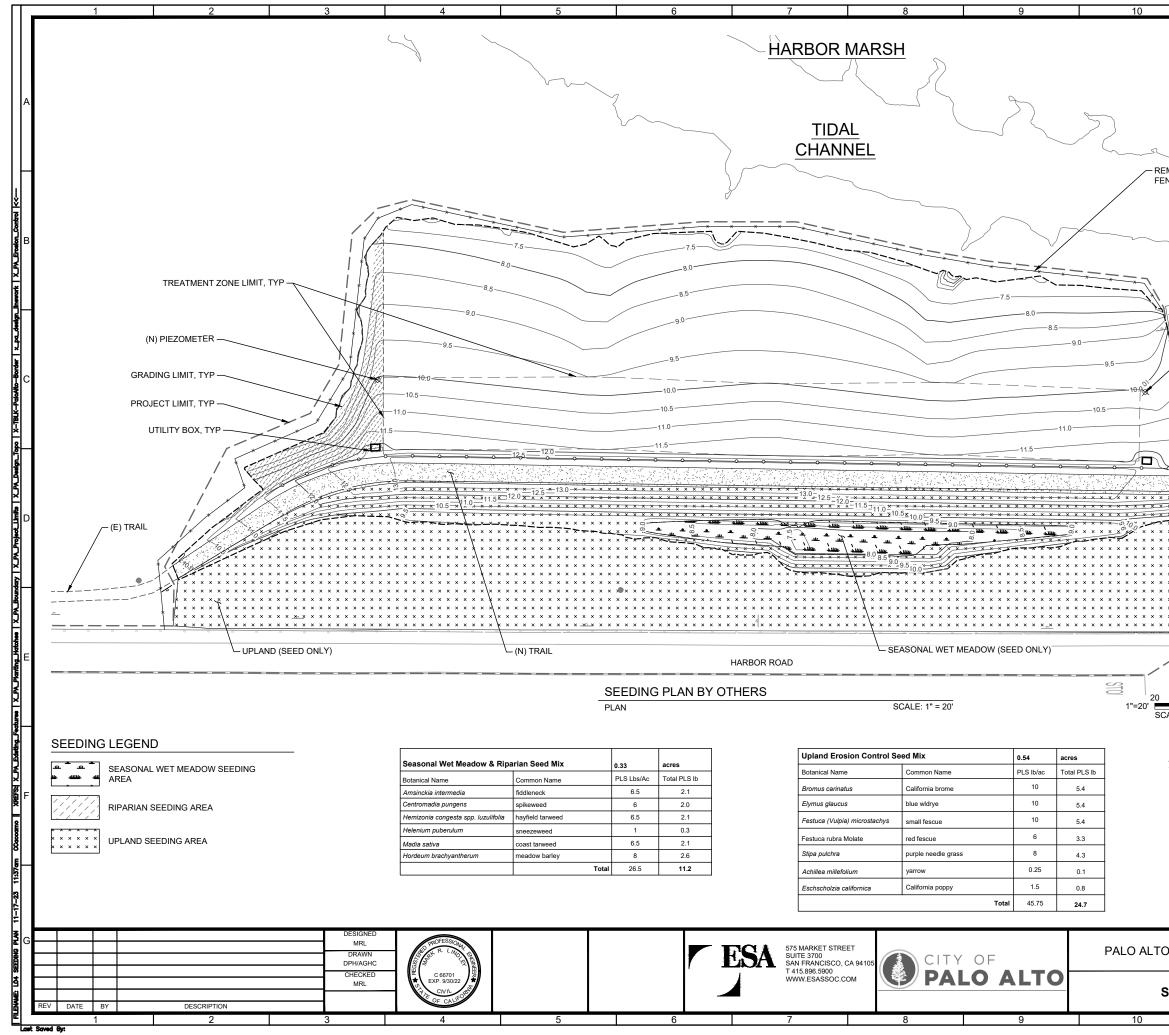
0	3 	DESIGNED MRL DRAWN DPH/AGHC	ROFESSION CONTRACTOR			ES	575 MARKET STREET SUITE 3700 SAN FRANCISCO, CA 94		/ OF	PALO ALTO HO	CITY OF PALO ALTO PRIZONTAL LEVEE PI EVEGETATION PLAN	LOT PROJECT	VERIFY SCALES NOVEMBER BAR IS ONE INCH ON ORIGINAL DRAWING DRAWING	NG NO.
	REV DATE BY DESCRIPTION	CHECKED MRL	C 66701 EXP. 9/30/22 CIVIL CIVIL CF CALLED				T 415.896.5900 WWW.ESASSOC.COM	PA	LO ALTO		G AND SEEDING SC		0 LO2 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY 3 OF	T NO.
	1 2	3	4	5	6		7	8	9	10	11	12	13	

7	8	9	10	11	12	13	

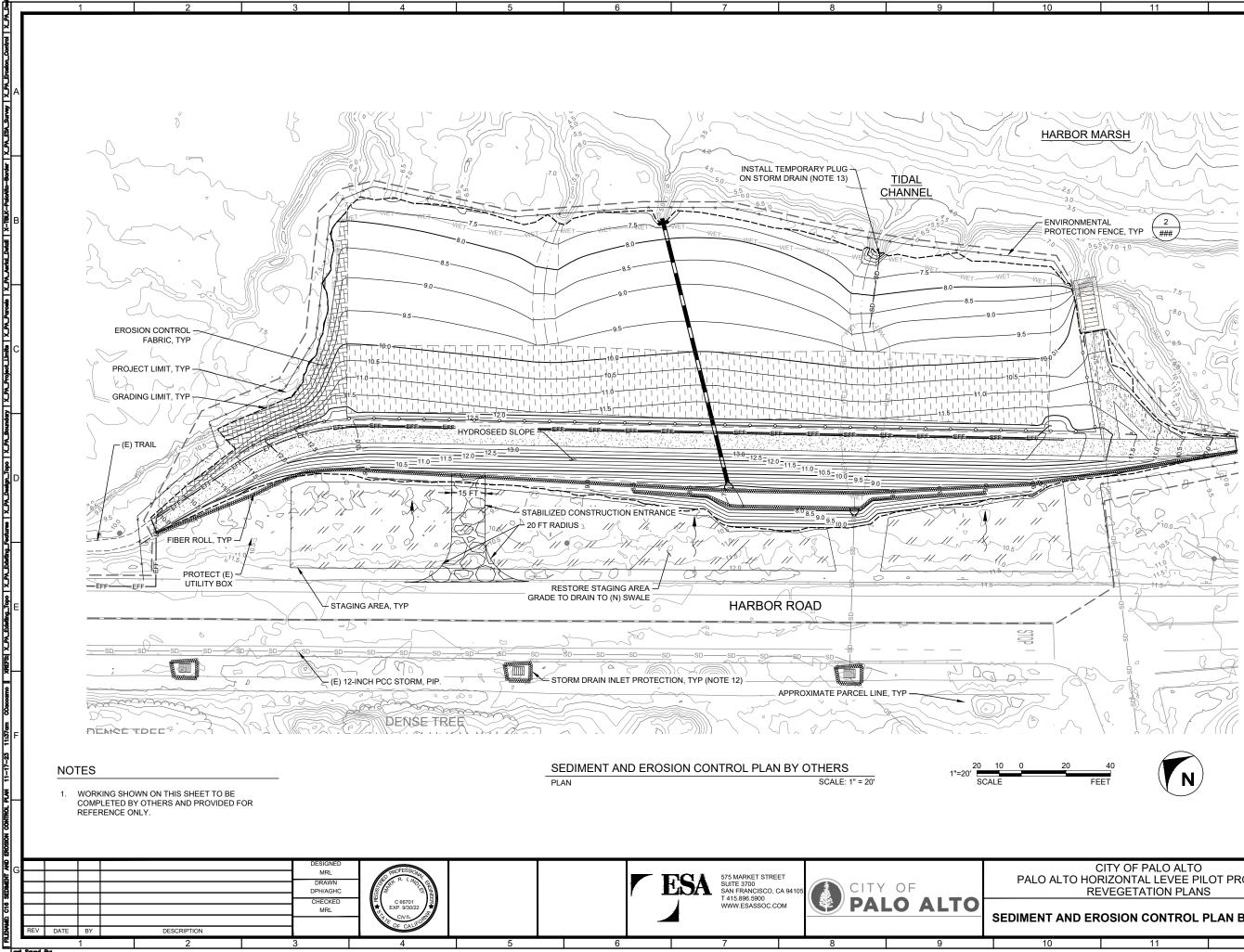
			0.05	acres
Form/Container	Spacing		Quantity	Notes
deepot	3 FT OC		50	low scrub zone along trail boundary
deepot/sprig	10 FT OC		8	low scrub zone along trail boundary
deepot	5 FT OC		30	low scrub zone along trail boundary
•		Total	81	
deepot	3 FT OC		50	low scrub zone along trail boundary
		Total	50	

П	1 2 3 4 5 6 7 8 9 10
4	
B	FINISH GRADE
c	ACCOMMODATE PLUG PLANTING 1 TYPICAL CONTAINER PLANTING 2 TYP 2 DETAIL C
	(E) GRADE SET CROWN OF ROOT BALL AT FINISH GRADE, HAND TAMP IN PLACE HAND EXCAVATE PLANTING PIT TO ACCOMMODATE
ss¦ X-TBLK-PaloAtto-Border << T	PLUG PLANTING FINISH GRADE NOTE: 1. USE SPADE OR TROWEL TO DIG PLANTING HOLE BY HAND.
: 11-17-23 11:36am CCaccamo XREFS: 	3 RIPARIAN CONTAINER PLANTING ON SLOPE - DETAIL SCALE: 1" = 2' 4 TYP - DETAIL
Lewme: Loj planting details	Designed MRL Designed MRL DRAWN DRAWN DH/AGHC CHECKED MRL CHECKED <
اع ما	I 2 3 4 5 6 7 8 9 10 Saved By:

	11	12	13	
				A
	DIA VARIES 2X CONTAINER WIDTH	CONTAINER PLANT SET CROWN OF ROOT E THAN 1/2" ABOVE FINISH SLOPE SURFACE AWAY CONSTRUCT PLANTING CONTINUOUS AROUND FINISH GRADE (TYP)	I GRADE FROM PLANT TO DRAI BERM 4" HEIGHT	N B
PICAL	RIPARIAN CONTAIN	NER PLANTING		c
AIL			SCALE: 1" =	2'
				D
X	EQUAL BET ST	HERBACEOUS PLANTING SPACING PLAN		E
	PLANT LAYOUT	SCALE: NTS		F
				DATE
TO HOF	CITY OF PALO ALTO RIZONTAL LEVEE PIL		BAR IS ONE INCH ON ORIGINAL DRAWING	DATE EMBER 10, 2023 RAWING NO. L03
Р	LANTING DETAILS		0 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	LU3 SHEET NO. 4 OF 5
	11	12	13	



	11	12	13		-
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REMOVE T	EMPORARY ENVIRONMENT CONCLUSION OF WORK				В
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O HOR RE	ITY OF PALO ALTO NZONTAL LEVEE PIL VEGETATION PLANS	3	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 I I I I I I I I I I I I I I I I I I I	DATE NOVEMBER 10, 2023 DRAWING NO. LO4 SHEET NO. 5 OF 5	G



CITY OF PALO ALTO O HORIZONTAL LEVEE PILOT PROJECT REVEGETATION PLANS		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.	;
ND EROSION CONTROL PLAN BY OTHERS		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	L05 SHEET NO. OF 5	
11	12	13		

11	12	13