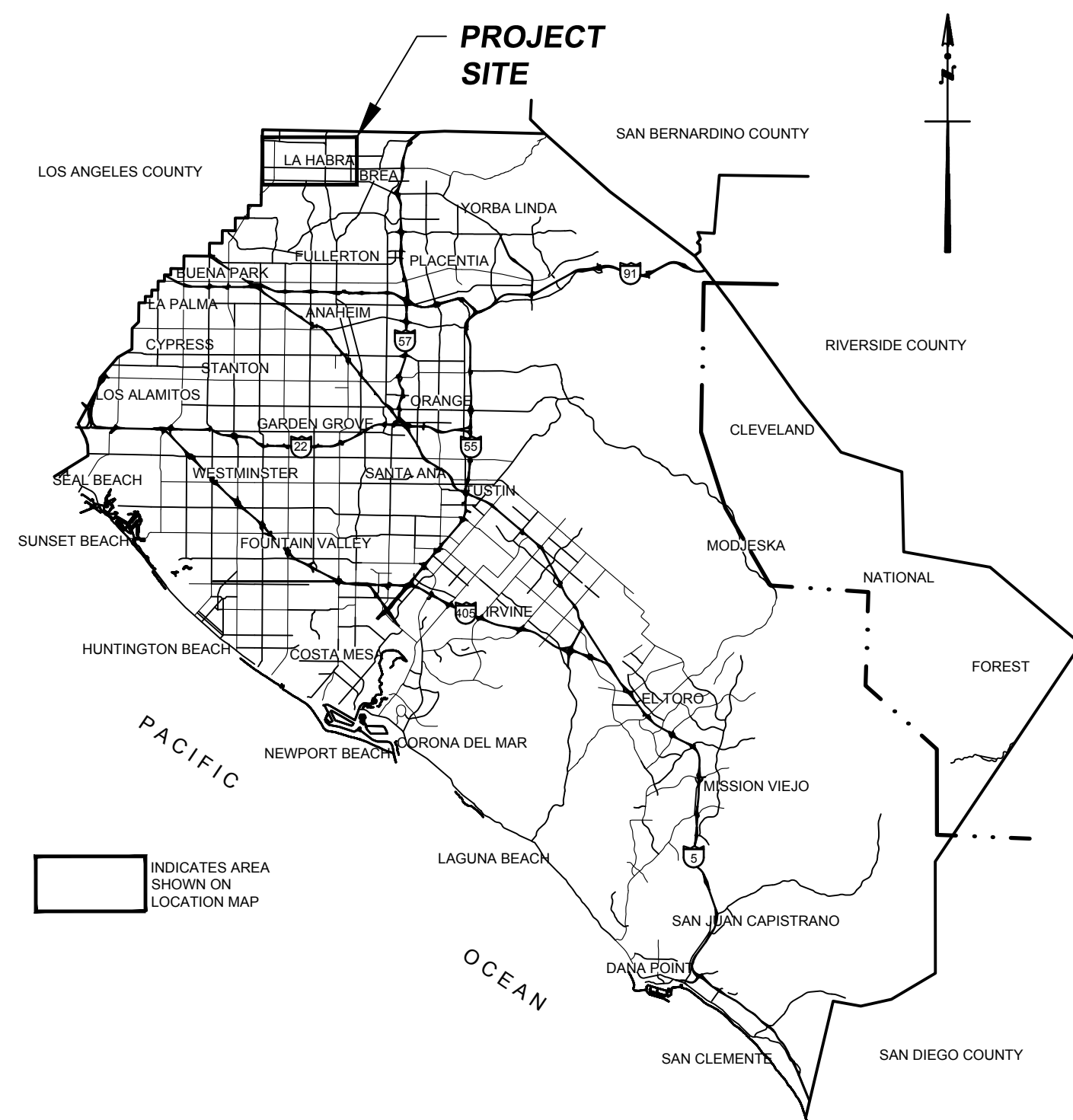


# CITY OF LA HABRA VISTA GRANDE PARK

LA HABRA, CA

## FAMILY ORIENTED RECREATIONAL PARK MAY 2020



VICINITY MAP  
NTS

### INDEX OF SHEETS

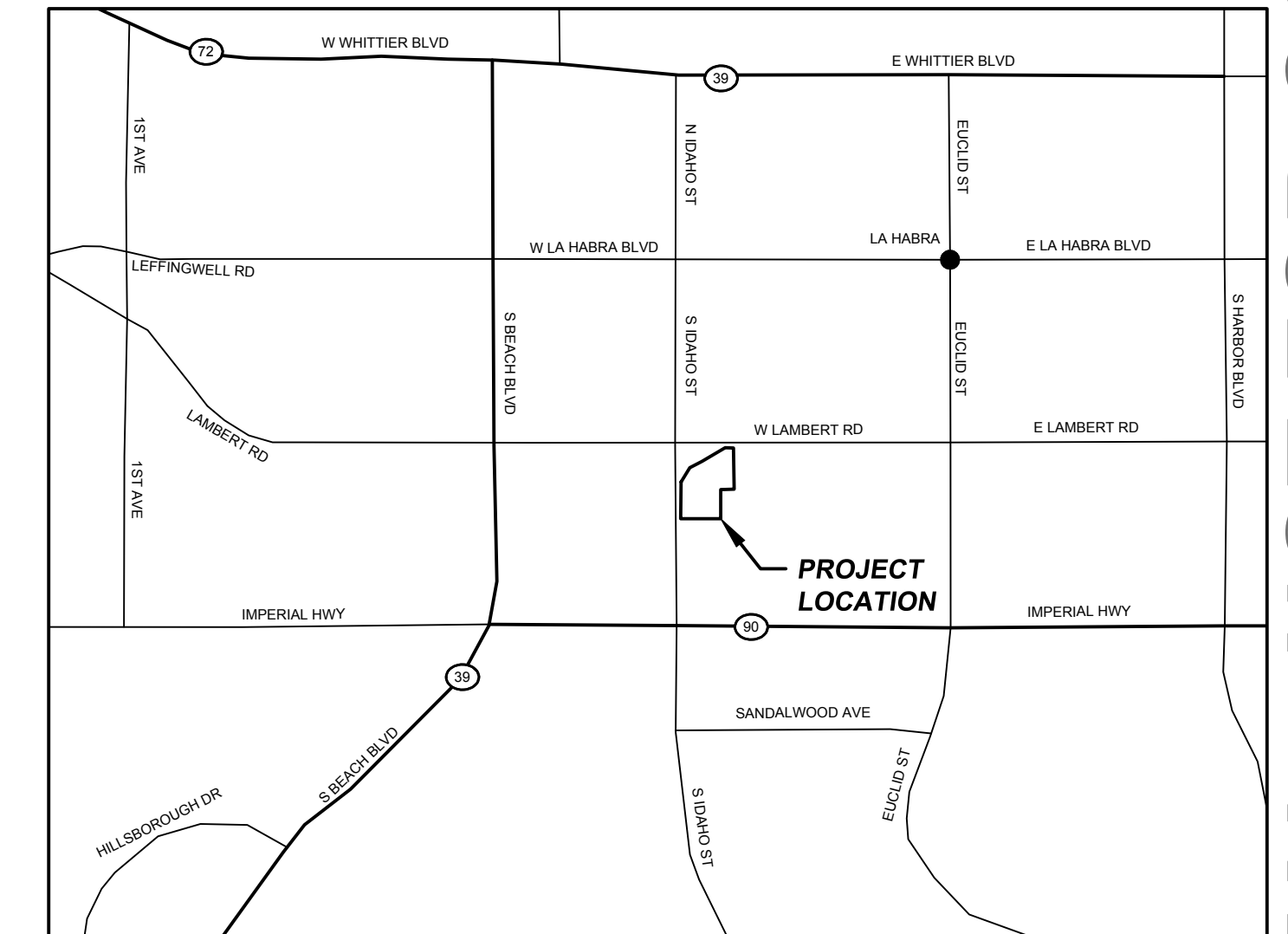
- C-001 COVER SHEET
- C-100 SITE PLAN
- C-101 GRADING PLAN
- C-102 GRADING PLAN
- C-103 GRADING PLAN
- C-301 SECTIONS
- C-501 DETAILS
- C-502 DETAILS

**OWNER:**  
CITY OF LA HABRA  
110 EAST LA HABRA BLVD  
LA HABRA, CA 90631  
TEL: 562-383-7777

**CIVIL ENGINEER:**  
GREG SAUL  
TETRA TECH BAS  
21700 COPLEY DRIVE, SUITE 200  
DIAMOND BAR, CA 91765  
TEL: 909-860-7777

THERE SHALL BE NO TRENCHES OR EXCAVATIONS 5 FEET OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND, OR OBTAIN PERMIT FROM STATE OF CALIFORNIA, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL/OSHA), THIS PERMIT AND ANY OTHER SAFETY PERMIT SHALL BE OBTAINED PRIOR TO COMMENCE OF ANY WORK.

CONTACT CAL/OSHA AT 714-558-4451 FOR ADDITIONAL INFORMATION.



LOCATION MAP  
NTS

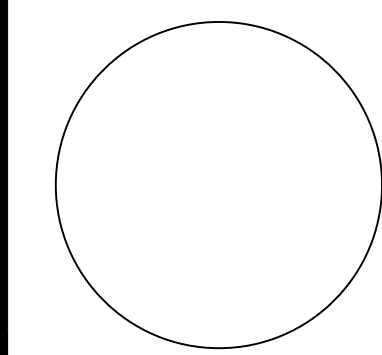
30% SUBMITTAL - NOT FOR CONSTRUCTION

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NO.	REVISION DESCRIPTION	DATE



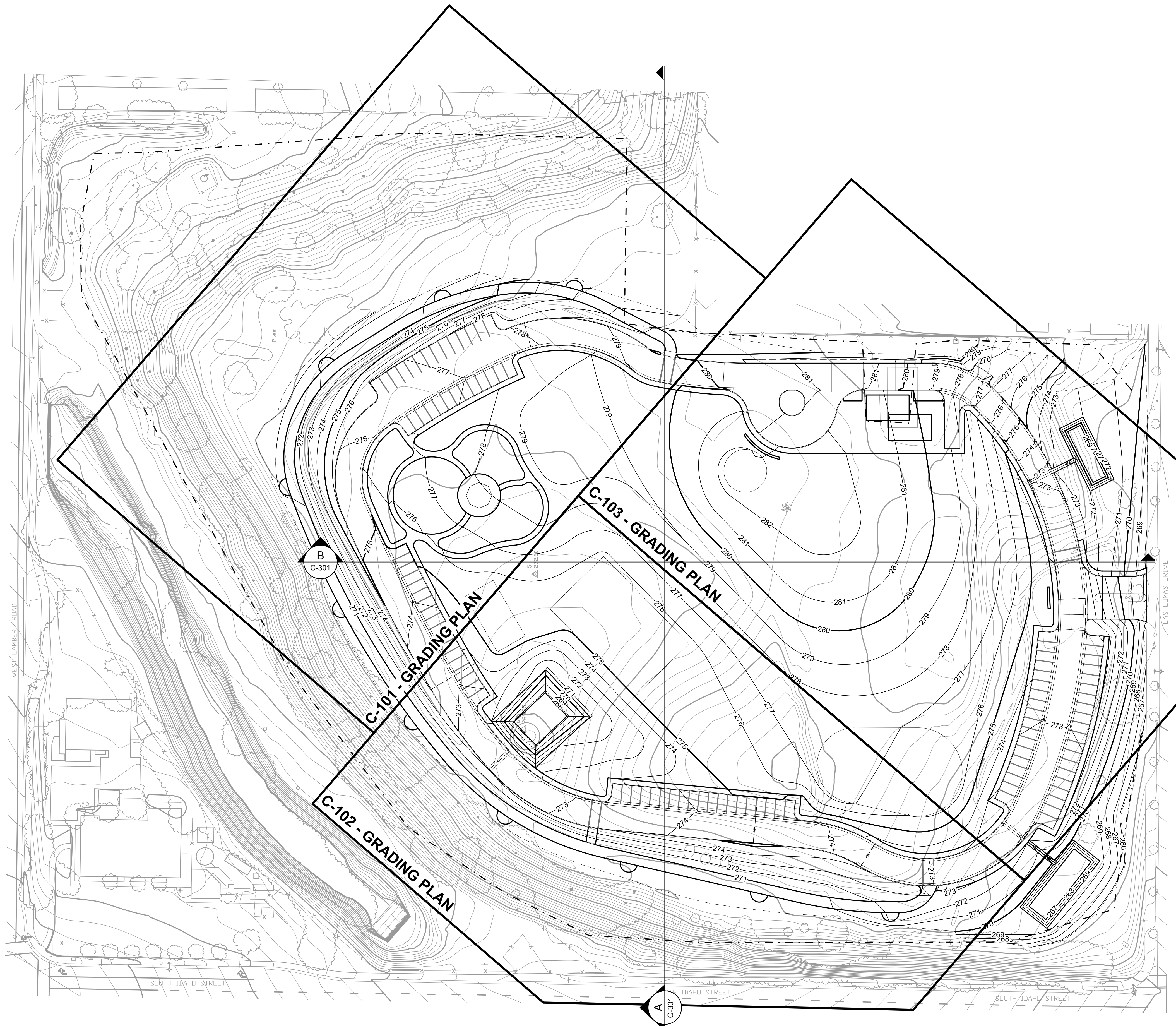
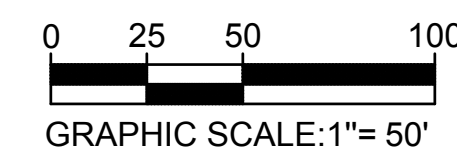
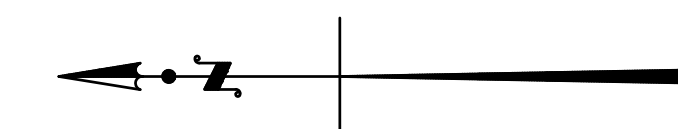
**TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



CITY OF LA HABRA / VISTA GRANDE PARK			
COVER SHEET			
DESIGNED BY :	G.E.S.	FILE :	C-001 Cover Sheet.dwg
DRAWN BY :	A.N.P.	DATE :	02-2021
CHECKED BY :	V.H.Y. & C.H.M.	DATE :	02-2021
APPROVED BY :	G.E.S.	DATE :	02-2021
<b>C-001</b>		<b>SHEET</b>	
1		OF 8	

Δ 274.37

Δ 275.99



### CONSTRUCTION NOTES

- 1 PROTECT IN PLACE
- 2 FILL TO CONTOURS SHOWN
- 3 CONSTRUCT A2-6 (150) CURB AND GUTTER PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, STANDARD PLAN 120-2
- 4 CONSTRUCT A3-6 (150) CURB AND GUTTER PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, STANDARD PLAN 120-2
- 5 INSTALL DRAIN INLET STRUCTURE PER (X)  
X-XXX
- 6 CONSTRUCT LONGITUDINAL GUTTER PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, STANDARD PLAN 122-2
- 7 CONSTRUCT DRIVEWAY PER OCPW STANDARD PLAN 1115
- 8 CONSTRUCT TYPE 3 CURB RAMP PER OCPW STANDARD PLAN 1115
- 9 CONSTRUCT TYPE 4 CURB RAMP PER OCPW STANDARD PLAN 1115
- 10 CONSTRUCT AC PAVEMENT PER (X)  
X-XXX
- 11 CONSTRUCT PARKING STALL PER (X)  
X-XXX
- 12 CONSTRUCT ACCESSIBLE PARKING STALL AND SIGNAGE PER (X)  
X-XXX
- 13 CONSTRUCT PICNIC TABLE SLAB PER OCPW STANDARD PLAN 1611
- 14 CONSTRUCT PICNIC / BBQ AREA SLAB PER (X)  
X-XXX
- 15 CONSTRUCT DRINKING FOUNTAIN PER OCPW STANDARD PLAN 1613
- 16 CONSTRUCT CONCRETE WALK PER OCPW STANDARD PLAN 1621
- 17 CONSTRUCT PARK ENTRY SIGN PER (X)  
X-XXX
- 18 CONSTRUCT STAIRWAY PER (X)  
X-XXX
- 19 CONSTRUCT COMMUNITY ART WALL AND AMPHITHEATER PER (X)  
X-XXX
- 20 CONSTRUCT TRASH ENCLOSURE PER (X)  
X-XXX
- 21 INSTALL TRASH / RECYCLING BINS PER (X)  
X-XXX
- 22 INSTALL BENCH PER (X)  
X-XXX
- 23 INSTALL WORKOUT STATION PER (X)  
X-XXX
- 24 INSTALL BICYCLE RACK PER (X)  
X-XXX

### LEGEND

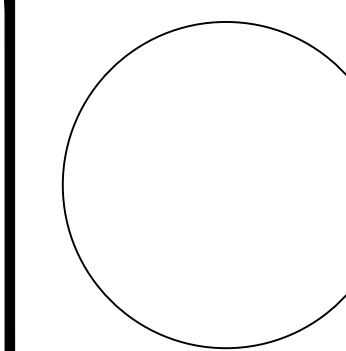
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- LIMIT OF GRADING / DAYLIGHT
- CONCRETE WALK
- AC PAVEMENT ROAD
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- LIMIT OF REFUSE
- FLOWLINE
- PAVED AC ROAD (Plan Views)
- PAVED PCC ROAD (Plan Views)
- CUT / FILL LINE
- ADA VAN
- CLEAN AIR / VANPOOL / EV
- SURVEY CONTROL POINT

DATE OF TOPOGRAPHY: APRIL 18, 2019

NO.	REVISION DESCRIPTION	DATE



**Tt TETRA TECH**  
 21700 Copley Drive, Suite 200  
 Diamond Bar, CA 91765  
 TEL 909.860.7777 FAX 909.860.8017



CITY OF LA HABRA / VISTA GRANDE PARK

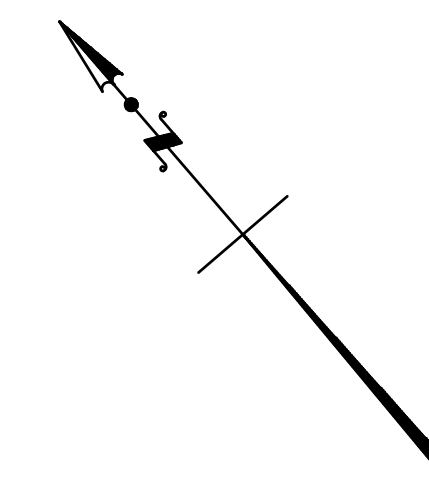
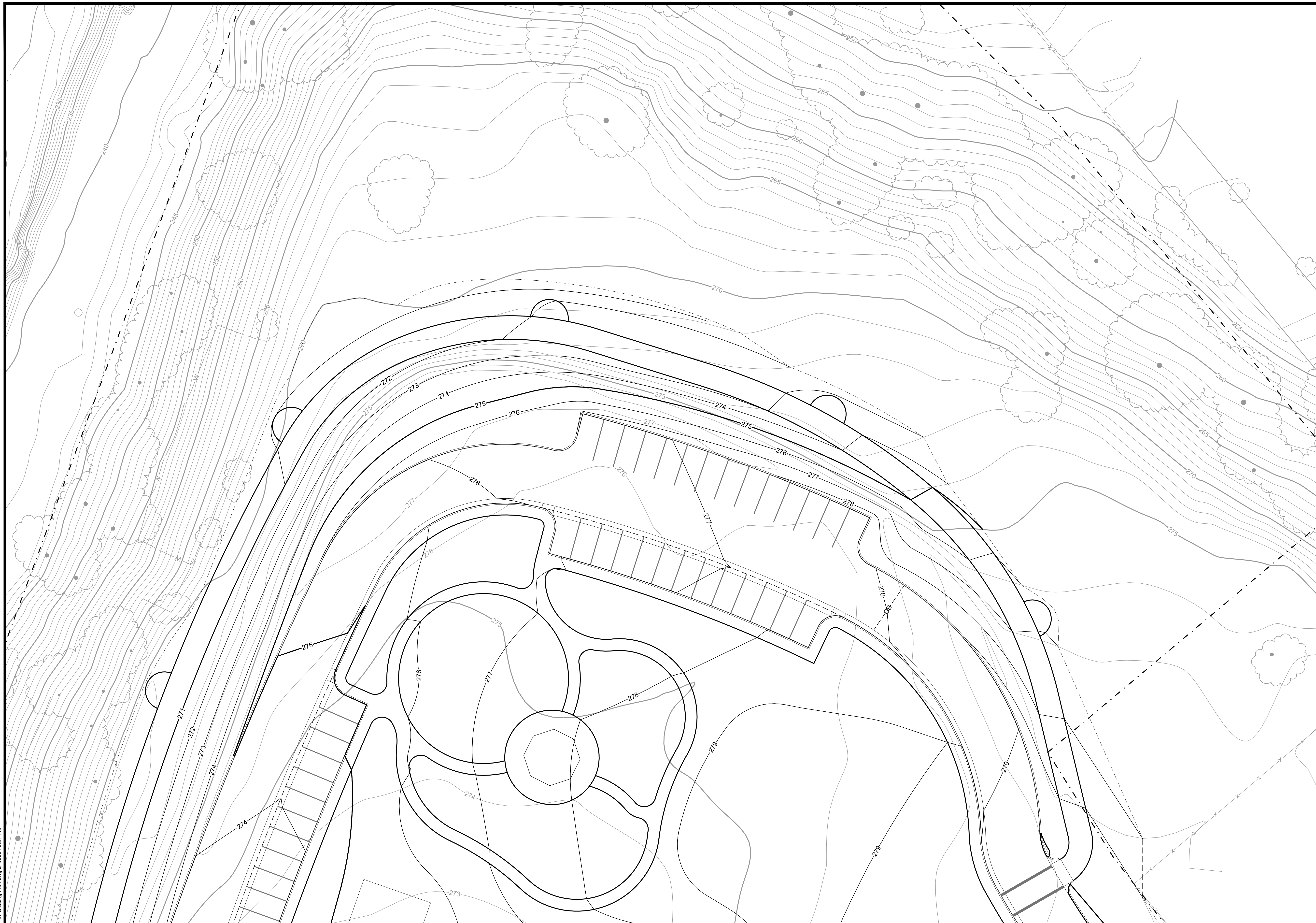
### SITE PLAN

DESIGNED BY :	G.E.S.	FILE :	C-100 Site Plan.dwg
DRAWN BY :	A.N.P.	DATE :	02-2021
CHECKED BY :	V.H.Y. & C.H.M.	DATE :	02-2021
APPROVED BY :	G.E.S.	DATE :	02-2021

**C-100** SHEET  
2 OF 8

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**CONSTRUCTION NOTES**

- 1 PROTECT IN PLACE
- 2 FILL TO CONTOURS SHOWN
- 3 CONSTRUCT A2-6 (150) CURB AND GUTTER PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, STANDARD PLAN 120-2
- 4 CONSTRUCT A3-6 (150) CURB AND GUTTER PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, STANDARD PLAN 120-2
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X-xxx
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- 7 CONSTRUCT DRIVEWAY PER OCPW STANDARD PLAN 1115
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- 10 CONSTRUCT AC PAVEMENT PER (X)  
X-xxx
- 11 CONSTRUCT PARKING STALL PER (X)  
X-xxx
- 12 CONSTRUCT ACCESSIBLE PARKING STALL AND SIGNAGE PER (X)  
X-xxx
- 13 CONSTRUCT PICNIC TABLE SLAB PER OCPW STANDARD PLAN 1611
- 14 CONSTRUCT PICNIC / BBQ AREA SLAB PER (X)  
X-xxx
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- 16 CONSTRUCT CONCRETE WALK PER OCPW STANDARD PLAN 1621
- 17 CONSTRUCT SIGN FOOTING PER OCPW STANDARD PLAN 1641
- 18 CONSTRUCT STAIRWAY PER (X)  
X-xxx
- 19 CONSTRUCT COMMUNITY ART WALL AND AMPHITHEATER PER (X)  
X-xxx

**LEGEND**

- APPROXIMATE LIMIT OF PROPERTY LINE
- LIMIT OF GRADING / DAYLIGHT
- CONCRETE WALK
- AC PAVEMENT ROAD
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- LIMIT OF REFUSE
- FLOWLINE
- PAVED AC ROAD (Plan Views)
- PAVED PCC ROAD (Plan Views)
- CUT / FILL LINE
- ADA VAN
- CLEAN AIR / VANPOOL / EV
- SURVEY CONTROL POINT

DATE OF TOPOGRAPHY: APRIL 18, 2019

MATCHLINE - SEE SHEET C-102

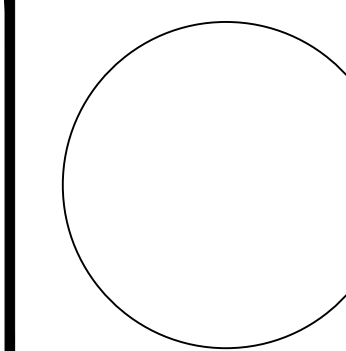
MATCHLINE - SEE SHEET C-103

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NO.	REVISION DESCRIPTION	DATE



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21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



CITY OF LA HABRA / VISTA GRANDE PARK

**GRADING PLAN**

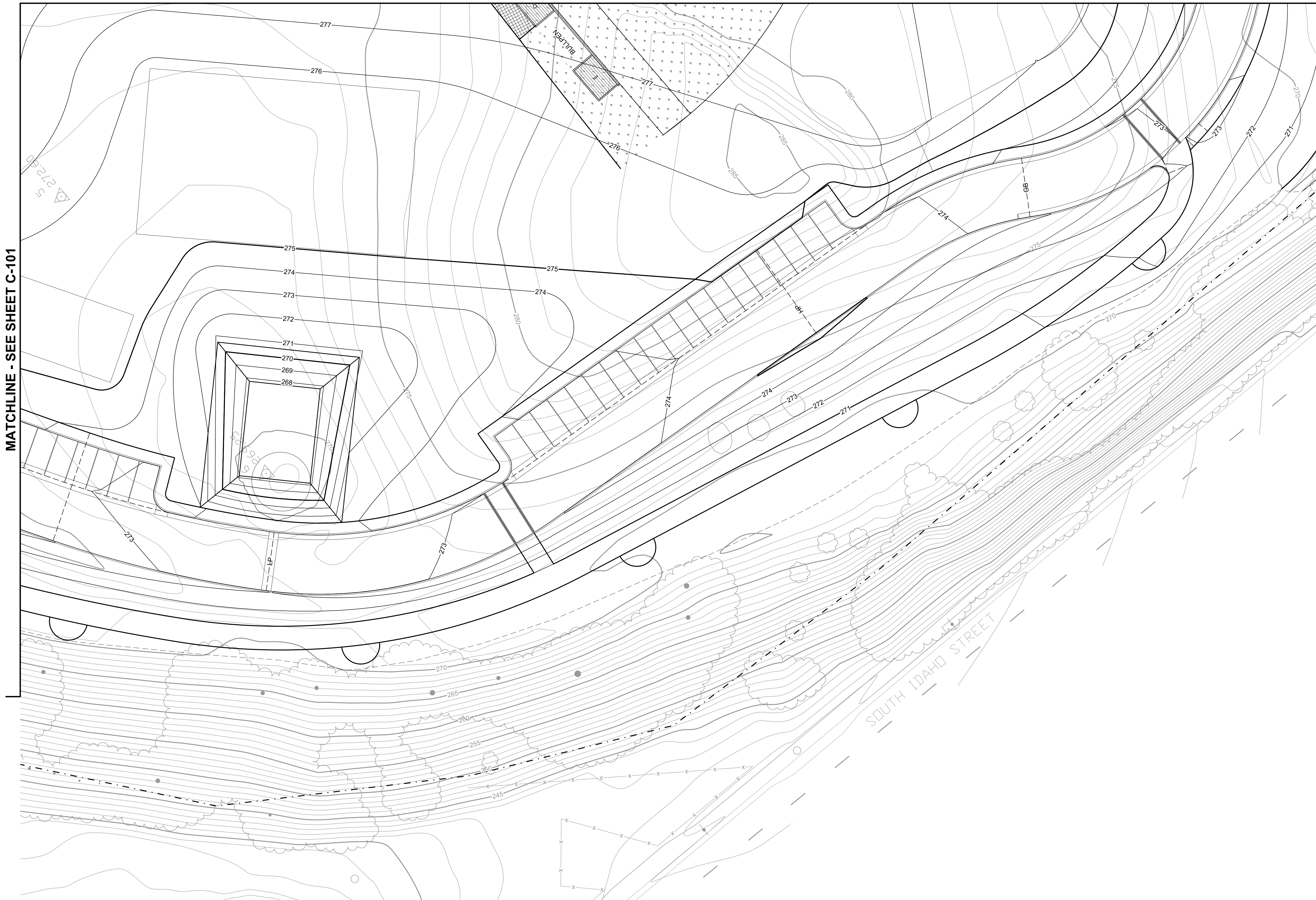
DESIGNED BY :	G.E.S.	FILE :	C-101 Grading Plan.dwg
DRAWN BY :	A.N.P.	DATE :	02-2021
CHECKED BY :	V.H.Y. & C.H.M.	SCALE :	AS SHOWN
APPROVED BY :	G.E.S.	DATE :	02-2021

**C-101** SHEET 3 OF 8

30% SUBMITTAL - NOT FOR CONSTRUCTION

MATCHLINE - SEE SHEET C-103

MATCHLINE - SEE SHEET C-101



**CONSTRUCTION NOTES**

- 1 PROTECT IN PLACE
- 2 FILL TO CONTOURS SHOWN
- 3 CONSTRUCT A2-6 (150) CURB AND GUTTER PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, STANDARD PLAN 120-2
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X-xxx
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- 10 CONSTRUCT AC PAVEMENT PER (X)  
X-xxx
- 11 CONSTRUCT PARKING STALL PER (X)  
X-xxx
- 12 CONSTRUCT ACCESSIBLE PARKING STALL AND SIGNAGE PER (X)  
X-xxx
- 13 CONSTRUCT PICNIC TABLE SLAB PER OCPW STANDARD PLAN 1611
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X-xxx
- 15 CONSTRUCT DRINKING FOUNTAIN PER OCPW STANDARD PLAN 1613
- 16 CONSTRUCT CONCRETE WALK PER OCPW STANDARD PLAN 1621
- 17 CONSTRUCT SIGN FOOTING PER OCPW STANDARD PLAN 1641
- 18 CONSTRUCT STAIRWAY PER (X)  
X-xxx
- 19 CONSTRUCT COMMUNITY ART WALL AND AMPHITHEATER PER (X)  
X-xxx

**LEGEND**

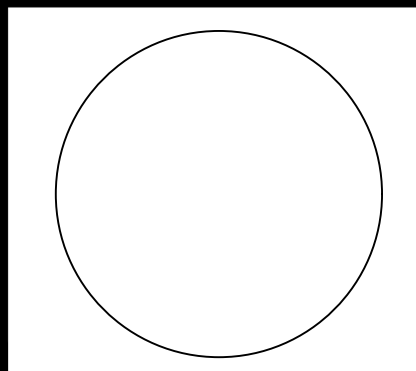
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- - - - - LIMIT OF GRADING / DAYLIGHT
- ==== CONCRETE WALK
- ==== AC PAVEMENT ROAD
- 10--- EXISTING MAJOR CONTOUR
- 10--- EXISTING MINOR CONTOUR
- 10--- PROPOSED MAJOR CONTOUR
- 10--- PROPOSED MINOR CONTOUR
- - - - - LIMIT OF REFUSE
- FLOWLINE
- ▬ PAVED AC ROAD (Plan Views)
- ▬ PAVED PCC ROAD (Plan Views)
- C F CUT / FILL LINE
- ADA VAN
- CLEAN AIR / VANPOOL / EV
- ▲ SURVEY CONTROL POINT

DATE OF TOPOGRAPHY: APRIL 18, 2019

NO.	REVISION DESCRIPTION	DATE



**TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



CITY OF LA HABRA / VISTA GRANDE PARK

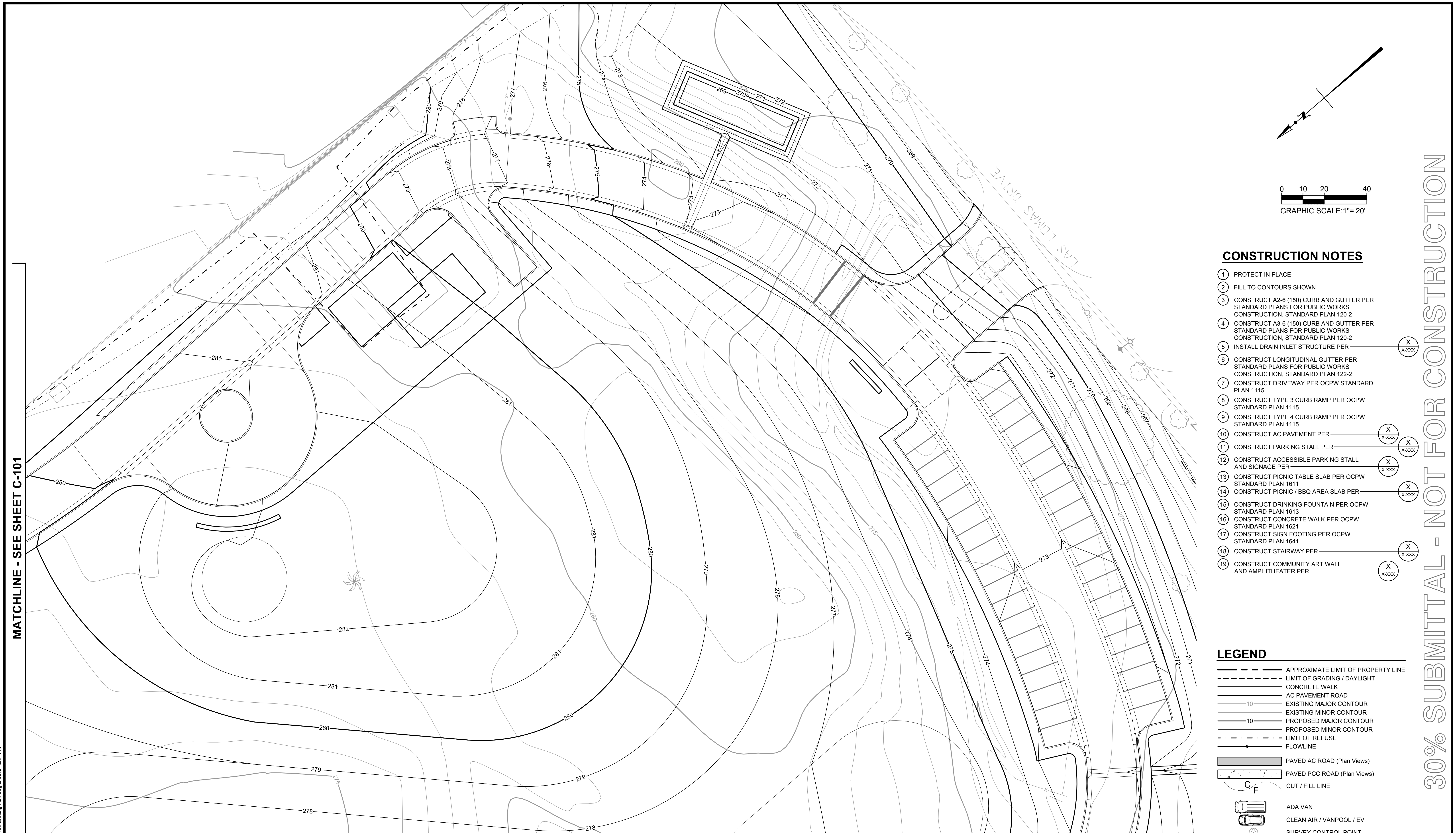
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DRAWN BY :	A.N.P.	DATE :	02-2021
CHECKED BY :	V.H.Y. & C.H.M.	SCALE :	AS SHOWN
APPROVED BY :	G.E.S.	DATE :	02-2021

**C-102** SHEET 4 OF 8

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MATCHLINE - SEE SHEET C-101

MATCHLINE - SEE SHEET C-102

**CONSTRUCTION NOTES**

- 1 PROTECT IN PLACE
- 2 FILL TO CONTOURS SHOWN
- 3 CONSTRUCT A2-6 (150) CURB AND GUTTER PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, STANDARD PLAN 120-2
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- 5 INSTALL DRAIN INLET STRUCTURE PER (X)  
X-xxx
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- 7 CONSTRUCT DRIVEWAY PER OCPW STANDARD PLAN 1115
- 8 CONSTRUCT TYPE 3 CURB RAMP PER OCPW STANDARD PLAN 1115
- 9 CONSTRUCT TYPE 4 CURB RAMP PER OCPW STANDARD PLAN 1115
- 10 CONSTRUCT AC PAVEMENT PER (X)  
X-xxx
- 11 CONSTRUCT PARKING STALL PER (X)  
X-xxx
- 12 CONSTRUCT ACCESSIBLE PARKING STALL AND SIGNAGE PER (X)  
X-xxx
- 13 CONSTRUCT PICNIC TABLE SLAB PER OCPW STANDARD PLAN 1611
- 14 CONSTRUCT PICNIC / BBQ AREA SLAB PER (X)  
X-xxx
- 15 CONSTRUCT DRINKING FOUNTAIN PER OCPW STANDARD PLAN 1613
- 16 CONSTRUCT CONCRETE WALK PER OCPW STANDARD PLAN 1621
- 17 CONSTRUCT SIGN FOOTING PER OCPW STANDARD PLAN 1641
- 18 CONSTRUCT STAIRWAY PER (X)  
X-xxx
- 19 CONSTRUCT COMMUNITY ART WALL AND AMPHITHEATER PER (X)  
X-xxx

**LEGEND**

- APPROXIMATE LIMIT OF PROPERTY LINE
- - - - - LIMIT OF GRADING / DAYLIGHT
- ==== CONCRETE WALK
- ==== AC PAVEMENT ROAD
- - - - -10- EXISTING MAJOR CONTOUR
- - - - -10- EXISTING MINOR CONTOUR
- - - - -10- PROPOSED MAJOR CONTOUR
- - - - -10- PROPOSED MINOR CONTOUR
- - - - - LIMIT OF REFUSE
- FLOWLINE
- ▬ PAVED AC ROAD (Plan Views)
- ▬ PAVED PCC ROAD (Plan Views)
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- ADA VAN
- CLEAN AIR / VANPOOL / EV
- SURVEY CONTROL POINT

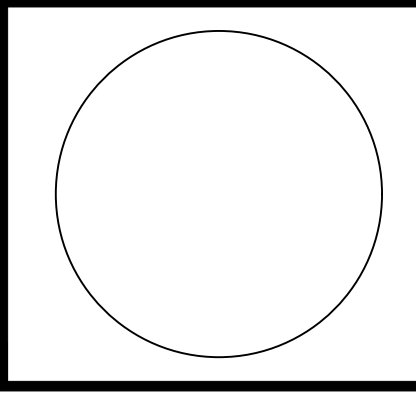
DATE OF TOPOGRAPHY: APRIL 18, 2019

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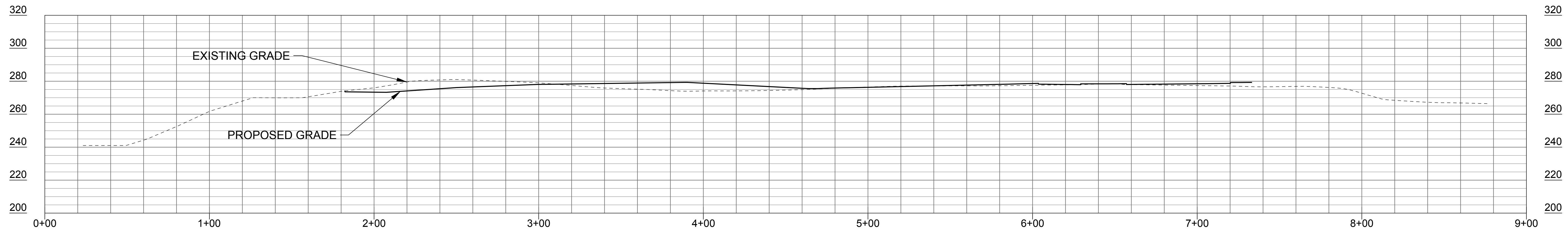
**TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



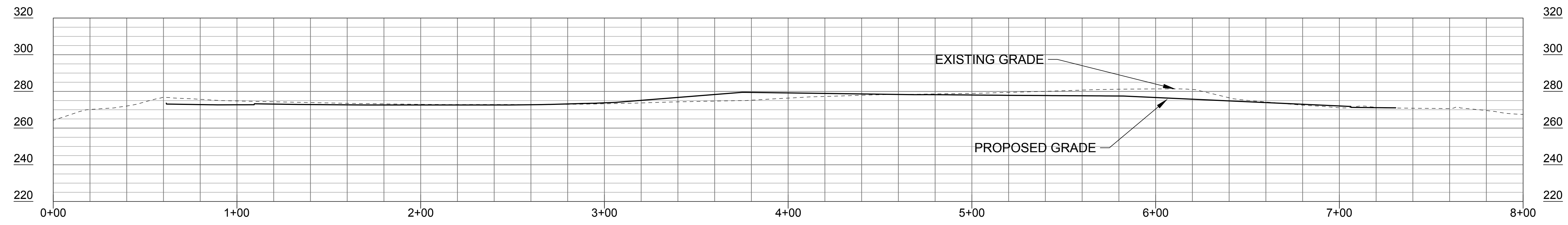
CITY OF LA HABRA / VISTA GRANDE PARK			
<b>GRADING PLAN</b>			
DESIGNED BY :	G.E.S.	FILE :	C-103 Grading Plan.dwg
DRAWN BY :	A.N.P.	DATE :	02-2021
CHECKED BY :	V.H.Y. & C.H.M.	SCALE :	AS SHOWN
APPROVED BY :	G.E.S.	DATE :	02-2021
<b>C-103</b>		<b>SHEET 5 OF 8</b>	

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**A SECTION**  
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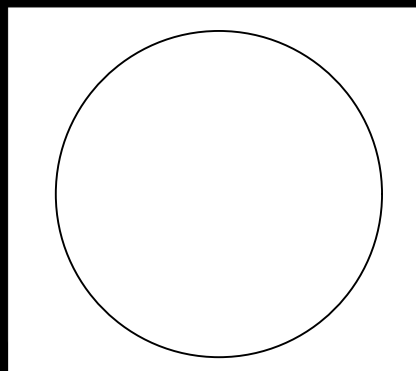


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C-100 SCALE: 1" = 30'

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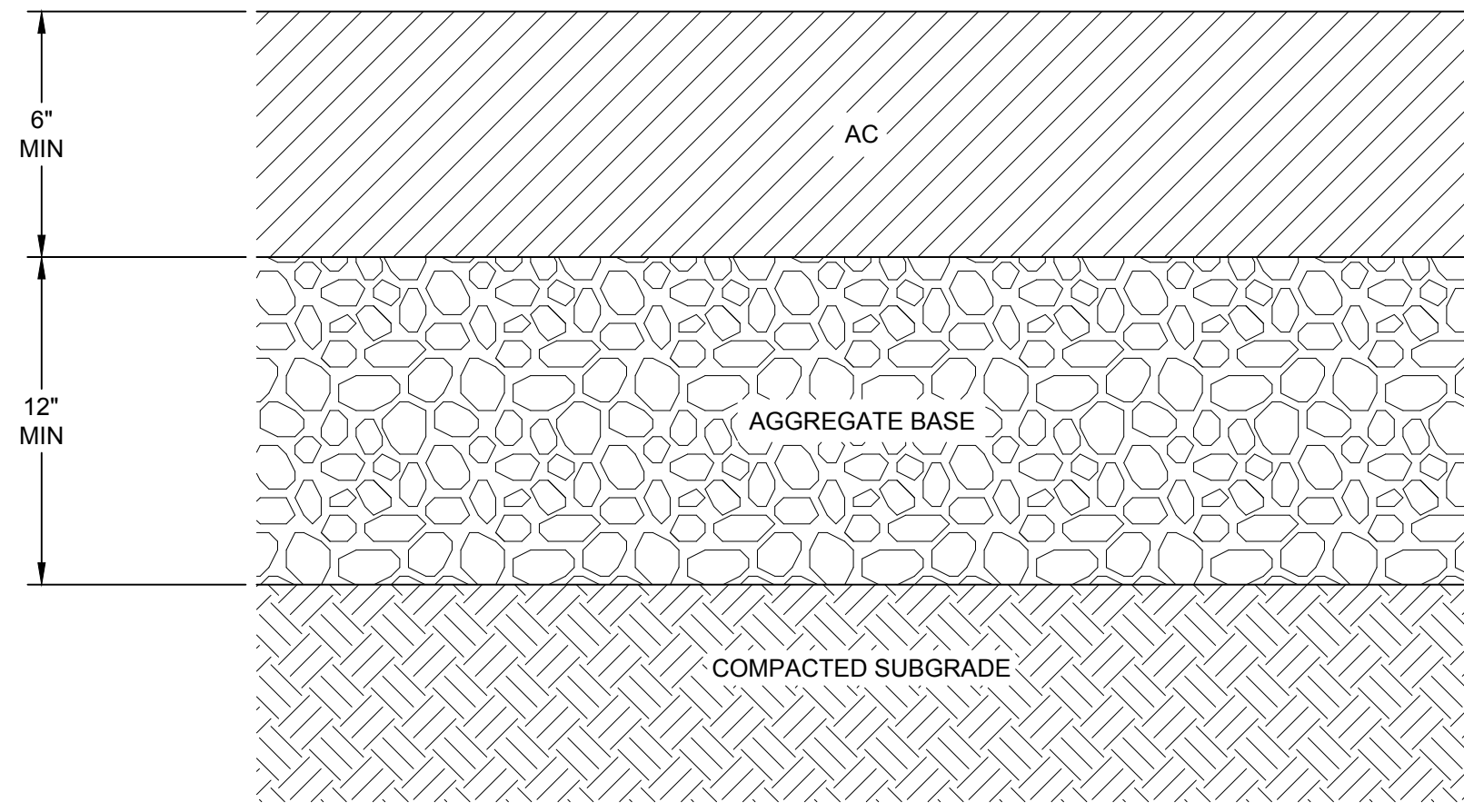


**TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
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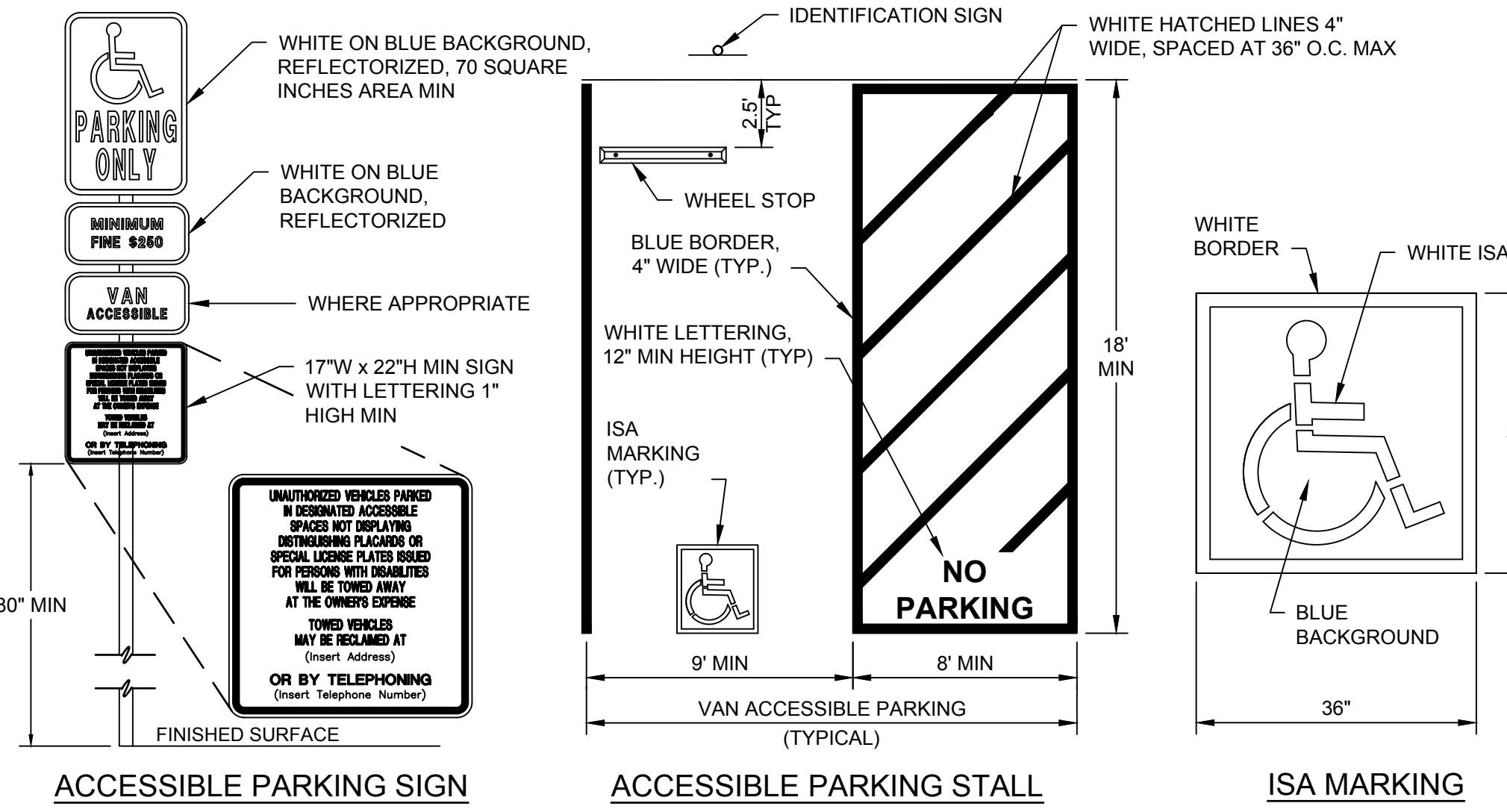
CITY OF LA HABRA / VISTA GRANDE PARK			
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DESIGNED BY : G.E.S.	FILE : C-301 Sections.dwg		
DRAWN BY : A.N.P.	DATE : 02-2021	SCALE : AS SHOWN	
CHECKED BY : V.H.Y. & C.H.M.	DATE : 02-2021		
APPROVED BY : G.E.S.	DATE : 02-2021	<b>C-301</b>	SHEET <b>6 OF 8</b>

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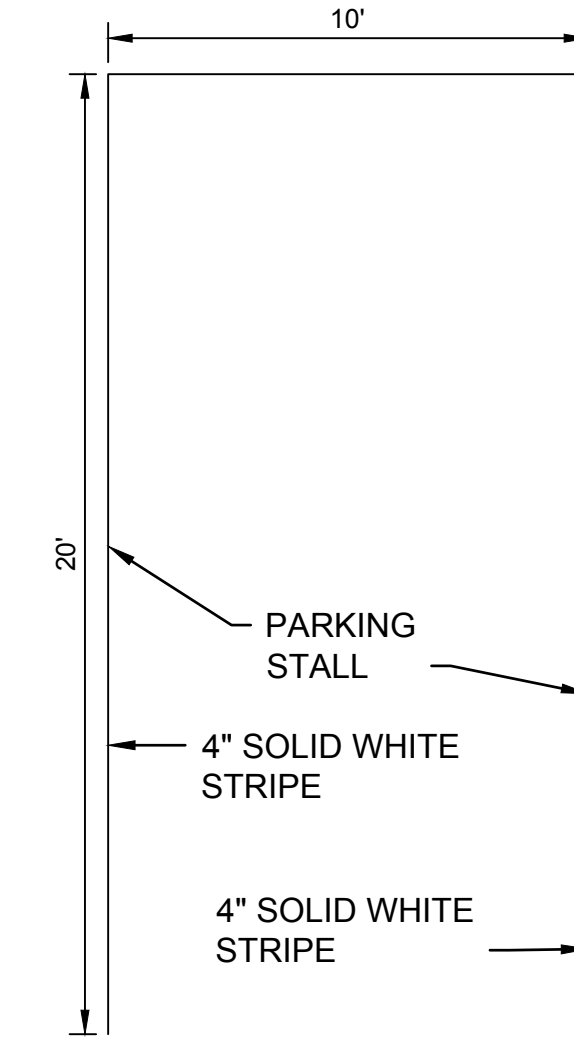
**1 AC PAVEMENT**

NTS REFERENCE SHEET:



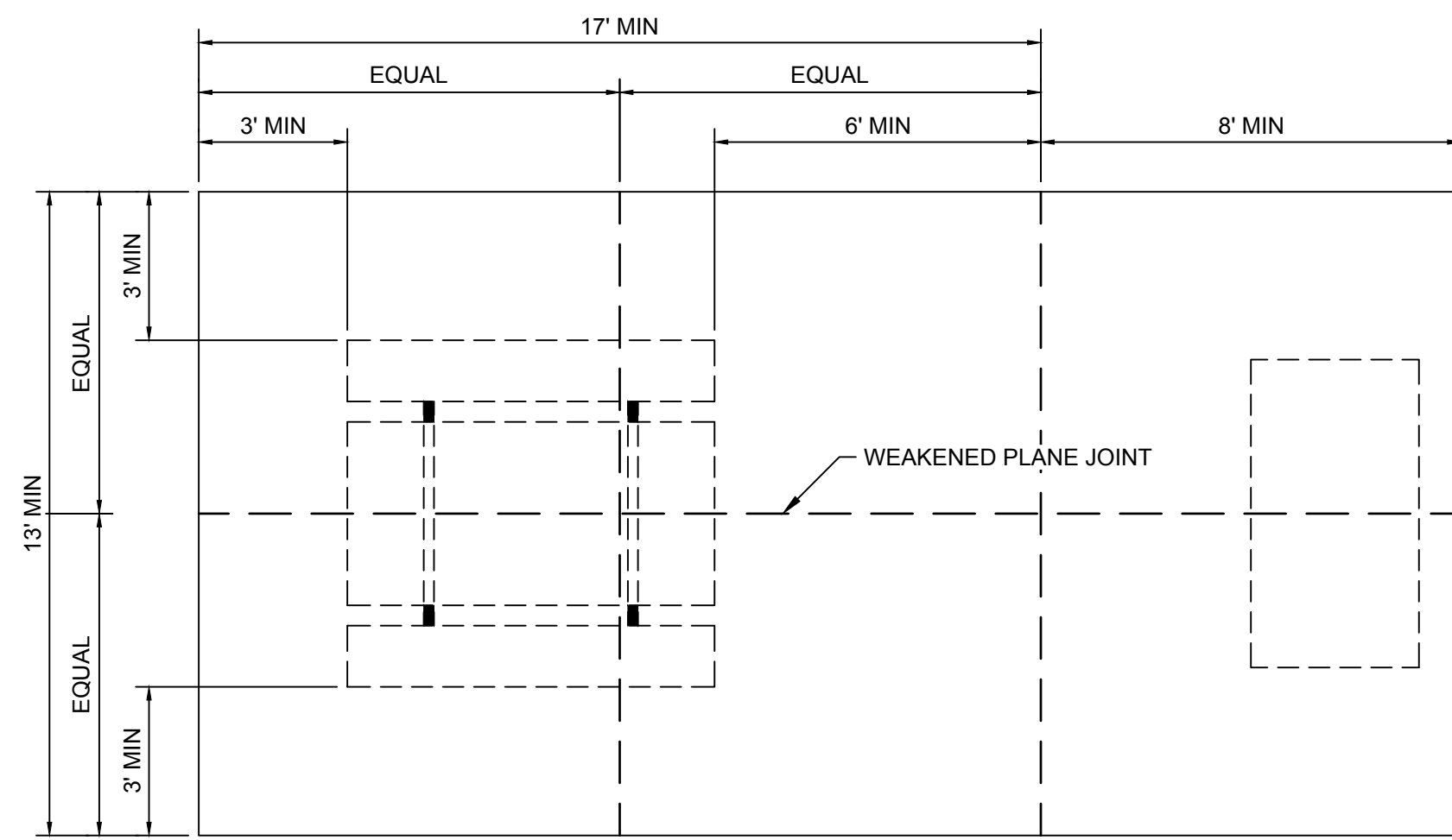
**2 ACCESSIBLE PARKING STALL AND SIGNAGE**

NTS REFERENCE SHEET:



**3 PARKING STALL**

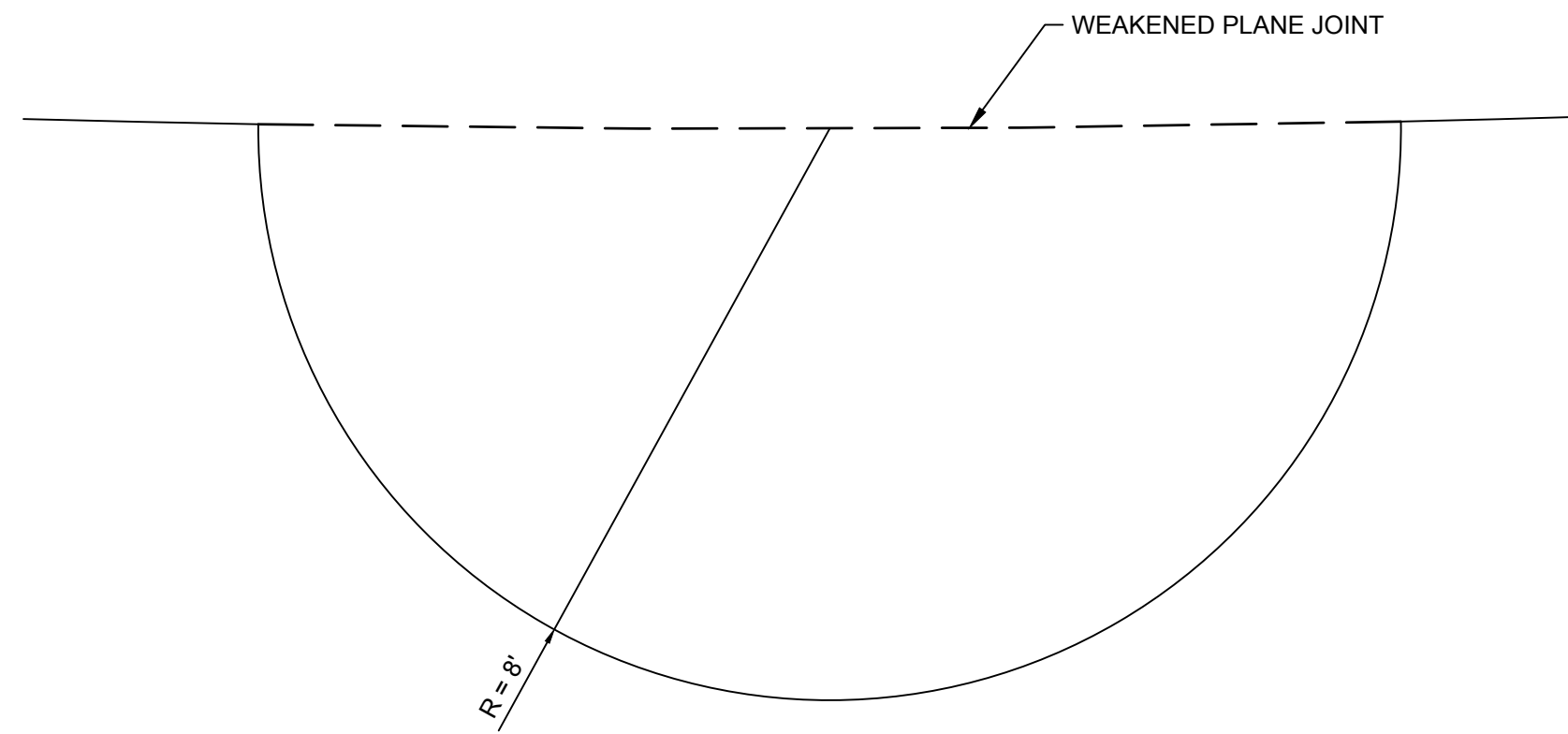
NTS REFERENCE SHEET:



NOTES: CONSTRUCT SLAB FOUNDATION PER OCPW STANDARD PLAN 1611 "PICNIC TABLE SLAB"

**4 PICNIC / BBQ AREA SLAB**

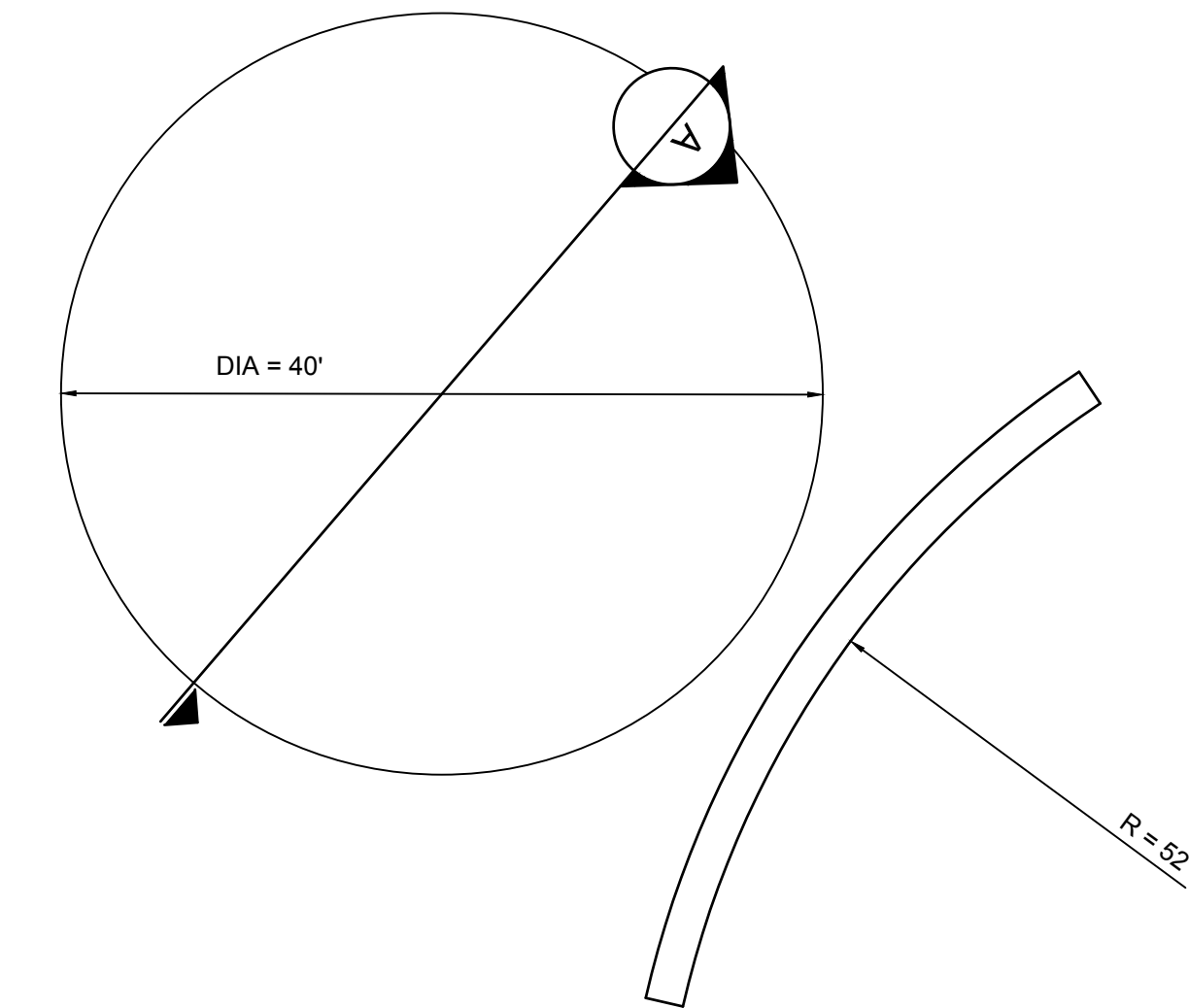
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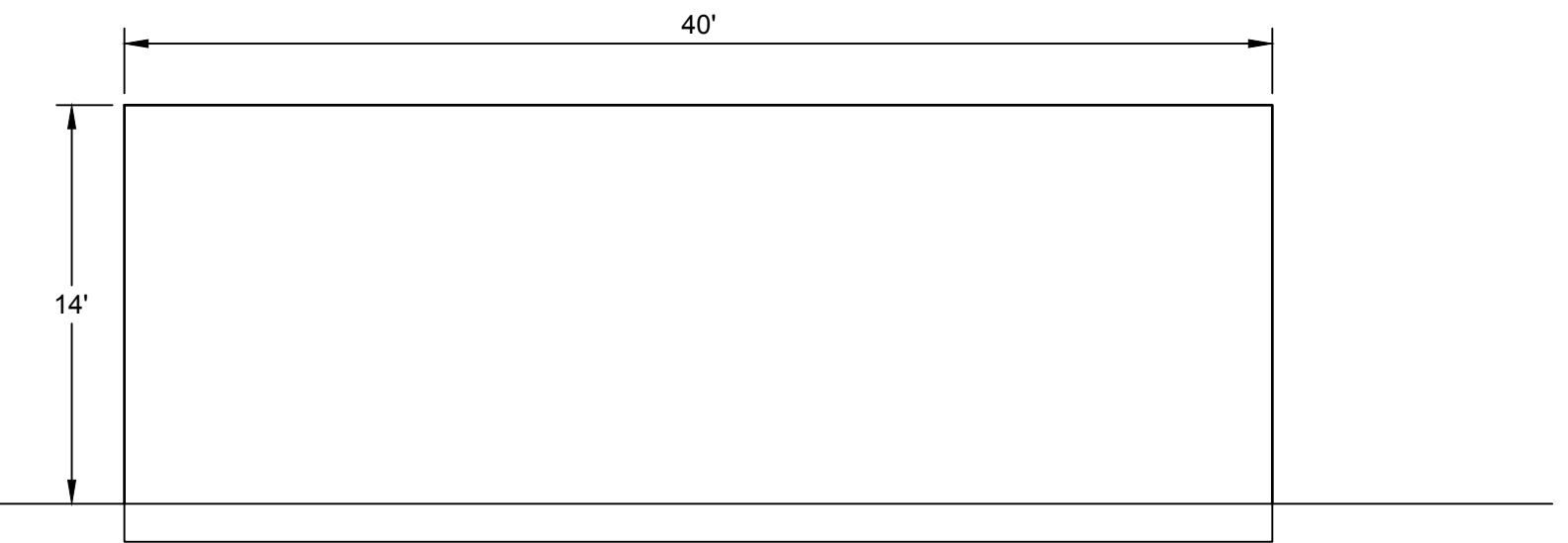
NOTES: CONSTRUCT SLAB FOUNDATION PER OCPW STANDARD PLAN 1611 "PICNIC TABLE SLAB"

**5 WORKOUT STATION AREA**

NTS REFERENCE SHEET:



PLAN VIEW  
NTS



SECTION A  
NTS

**8 COMMUNITY ART WALL AND AMPHITHEATER**

NTS REFERENCE SHEET:

**6 BICYCLE RACK**

NTS REFERENCE SHEET:

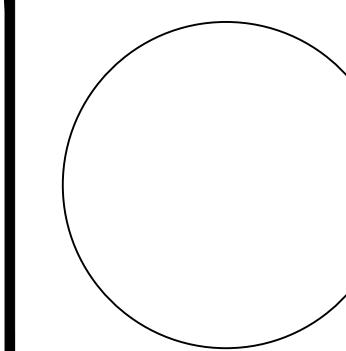
**7 PARK ENTRY SIGN**

NTS REFERENCE SHEET:

NO.	REVISION DESCRIPTION	DATE



**TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



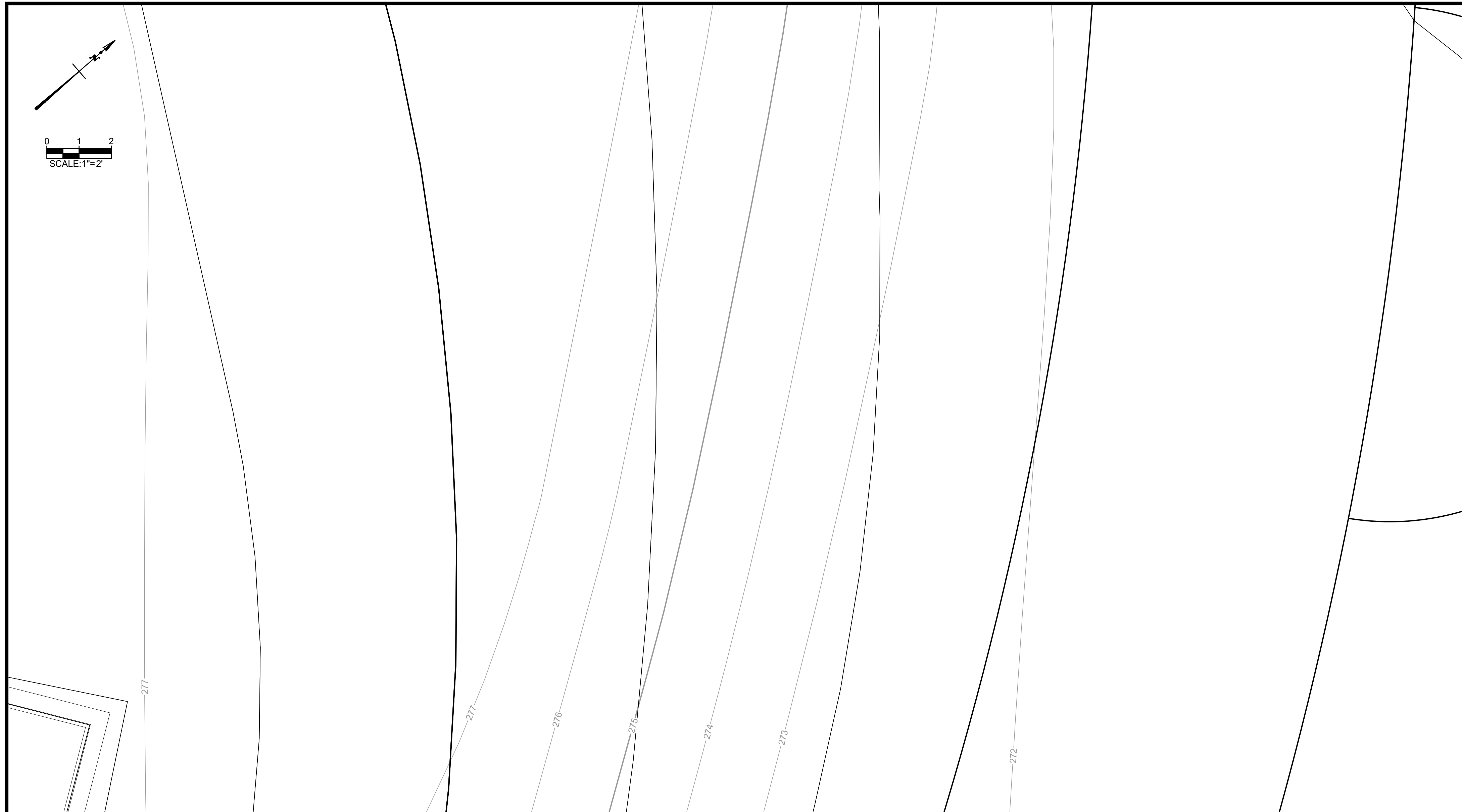
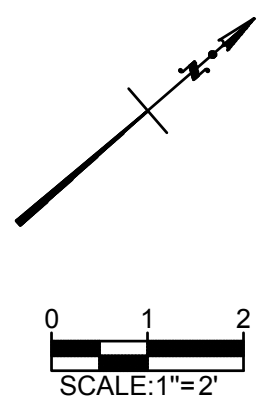
CITY OF LA HABRA / VISTA GRANDE PARK

**DETAILS**

DESIGNED BY: G.E.S.	FILE: C-501 Details.dwg
DRAWN BY: A.N.P.	DATE: 02-2021 SCALE: AS SHOWN
CHECKED BY: V.H.Y. & C.H.M.	DATE: 02-2021
APPROVED BY: G.E.S.	DATE: 02-2021

**C-501** SHEET  
7 OF 8

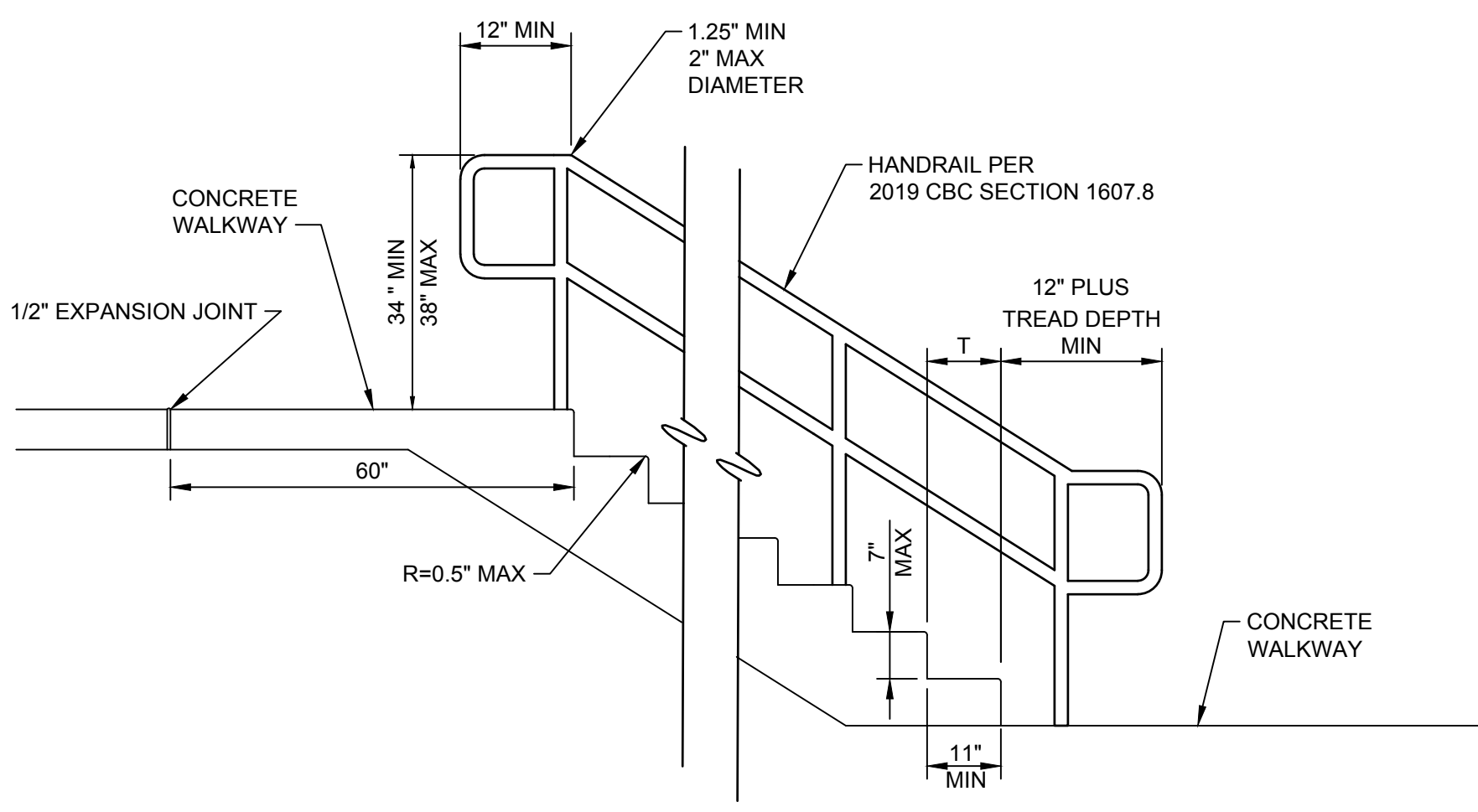
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<b>2</b>	<b>PARK BENCH</b>
NTS	REFERENCE SHEET:

<b>1</b>	<b>ENLARGED GRADING</b>
NTS	REFERENCE SHEET:

<b>3</b>	<b>TRASH / RECYCLING BINS</b>
NTS	REFERENCE SHEET:



<b>4</b>	<b>CONCRETE STAIRS AND RAILING</b>
NTS	REFERENCE SHEET:

<b>5</b>	<b>TRASH ENCLOSURE</b>
NTS	REFERENCE SHEET:

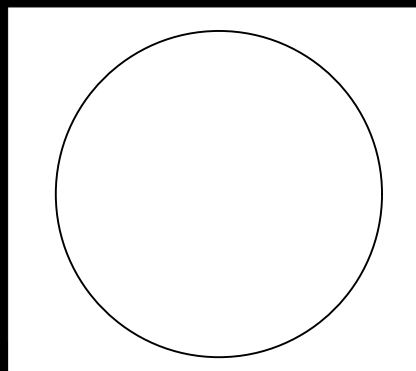
P:\La Habra\Vista Grande Park\CAD\SheetFiles\C-502 Details.dwg 2/4/2021 2:37 PM

30% SUBMITTAL - NOT FOR CONSTRUCTION

NO.	REVISION DESCRIPTION	DATE



**Tt TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017

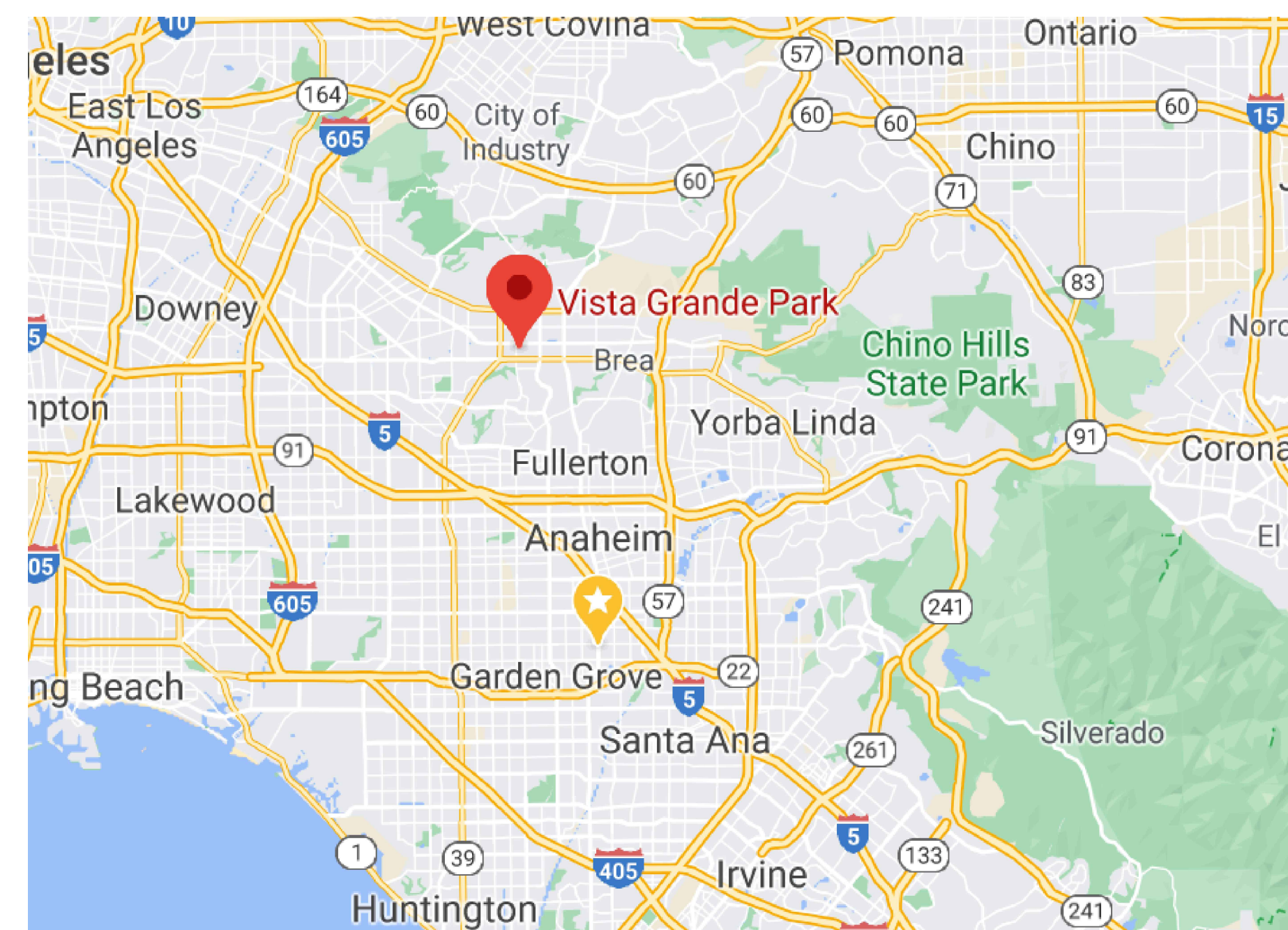


CITY OF LA HABRA / VISTA GRANDE PARK			
<b>DETAILS</b>			
DESIGNED BY :	G.E.S.	FILE :	C-502 Details.dwg
DRAWN BY :	A.N.P.	DATE :	02-2021
CHECKED BY :	V.H.Y. & C.H.M.	SCALE :	AS SHOWN
APPROVED BY :	G.E.S.	DATE :	02-2021
<b>C-502</b>			<b>SHEET</b> 8 OF 8

# CITY OF LA HABRA VISTA GRANDE PARK WELLFIELD MODIFICATION

## SHEET INDEX

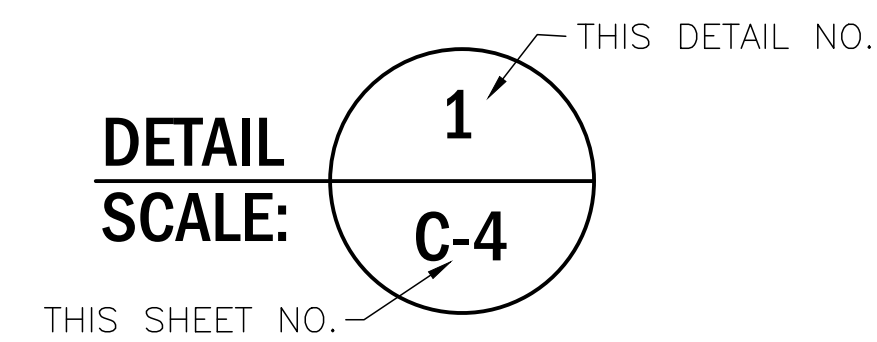
<b>C-1</b>	<b>TITLE SHEET</b>
<b>C-2</b>	<b>SITE OVERVIEW</b>
<b>C-3</b>	<b>WELLFIELD MODIFICATION OVERVIEW</b>
<b>C-4</b>	<b>WELL MODIFICATION DETAIL</b>
<b>C-5</b>	<b>HEADER DETAILS</b>



**LOCAL MAP**

## NOTES

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND AND ABOVE GROUND APPURTENANCES AND UTILITIES WITH NORTH WEST UTILITY NOTIFICATION CENTER AND THE SITE COORDINATOR TO VERIFY LOCATIONS PRIOR TO DIGGING OR CONSTRUCTION. LOCATIONS WILL BE ADJUSTED TO AVOID UTILITIES &amp; APPURTENANCES, AND THE ADJUSTED ALIGNMENT SHALL BE CHECKED AND APPROVED BY THE ENGINEER.</li> <li>2. ALL NECESSARY PERMITS FROM THE REGULATORY AGENCIES INCLUDING FEDERAL, STATE, REGIONAL, AND LOCAL MUST BE OBTAINED PRIOR TO START OF ANY CONSTRUCTION WORK.</li> <li>3. CONTRACTOR WILL EXECUTE THE WORK SAFELY, CONSISTENT WITH EXCAVATING AND WORKING IN A POTENTIALLY EXPLOSIVE ENVIRONMENT.</li> <li>4. ANY DRILLING, TRENCHING, EXCAVATION, OR OTHER WORK BELOW GRADE IS SUBJECT TO METHANE GAS INFILTRATION FROM THE SOIL WHICH COULD CREATE A POTENTIAL HAZARD TO</li> </ol> | <ol style="list-style-type: none"> <li>PERSONNEL. SPECIAL SAFETY PRECAUTIONS SHALL BE INCLUDED IN THE CONTRACTORS HEALTH AND SAFETY PLAN TO ADDRESS THIS ISSUE.</li> <li>5. EXCEPT WHEN BEING ACTIVELY WORKED ON, EXCAVATIONS OR HOLES SHALL BE COVERED TO PREVENT UNAUTHORIZED ENTRY.</li> <li>6. ALL CONSTRUCTION SHALL BE CONDUCTED USING LATEST INTERNATIONAL BUILDING CODE.</li> <li>7. ANY DRILLING, TRENCHING, EXCAVATION, OR OTHER WORK BELOW GRADE IS SUBJECT TO METHANE GAS INFILTRATION FROM THE SOIL WHICH COULD CREATE A POTENTIAL HAZARD TO PERSONNEL. SPECIAL SAFETY PRECAUTIONS SHALL BE INCLUDED IN THE CONTRACTORS HEALTH AND SAFETY PLAN TO ADDRESS THIS ISSUE.</li> <li>8. CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 642-2444 AT LEAST TWO WORKING DAYS BUT NOT MORE THAN 14 DAYS PRIOR TO COMMENCING EXCAVATION WORK.</li> </ol> |
|--|---|



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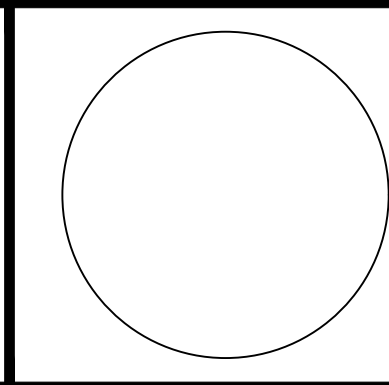
30% SUBMITTAL - NOT FOR CONSTRUCTION



NO.	REVISION DESCRIPTION	DATE



**TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



CITY OF LA HABRA / VISTA GRANDE PARK			
<b>TITLE SHEET</b>			
DESIGNED BY : A.M.P. & D.D.W.	FILE : C-1.dwg	DATE : 01-2021	SCALE : AS SHOWN
DRAWN BY : A.M.P.	DATE : 01-2021	<b>C-1</b> SHEET 1 OF 5	
CHECKED BY : A.M.P. & D.D.W.	DATE : 01-2021		
APPROVED BY : D.D.W.	DATE : 01-2021		

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**LEGEND**

- NEW HEADER / LATERAL
- E — BURIED ELECTRICAL
- - - - - APPROX. LIMIT OF WASTE
- EXISTING HEADER / LATERAL

PARK GRADING BOUNDARY

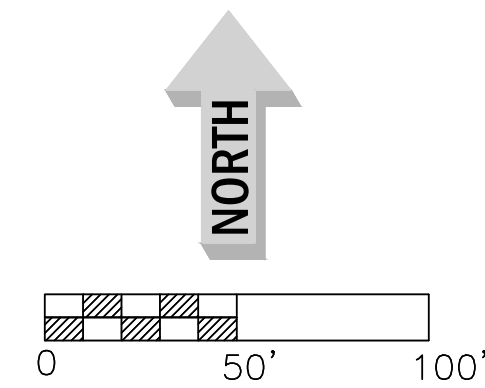
BLOWER STATION

APPROX. LOCATION OF EXISTING ELECTRICAL TRENCH

1  
C-3 WELLFIELD MODIFICATION OVERVIEW

SNACK BAR

APPROXIMATE LIMIT OF REFUSE



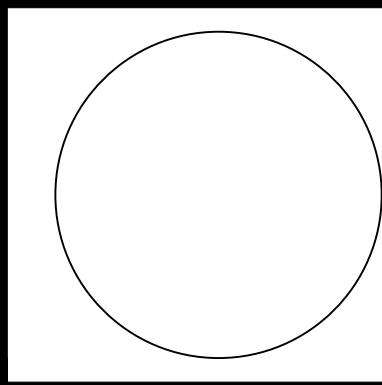
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REVISION DESCRIPTION	DATE



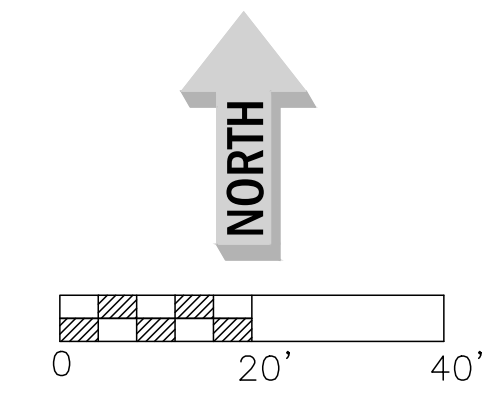
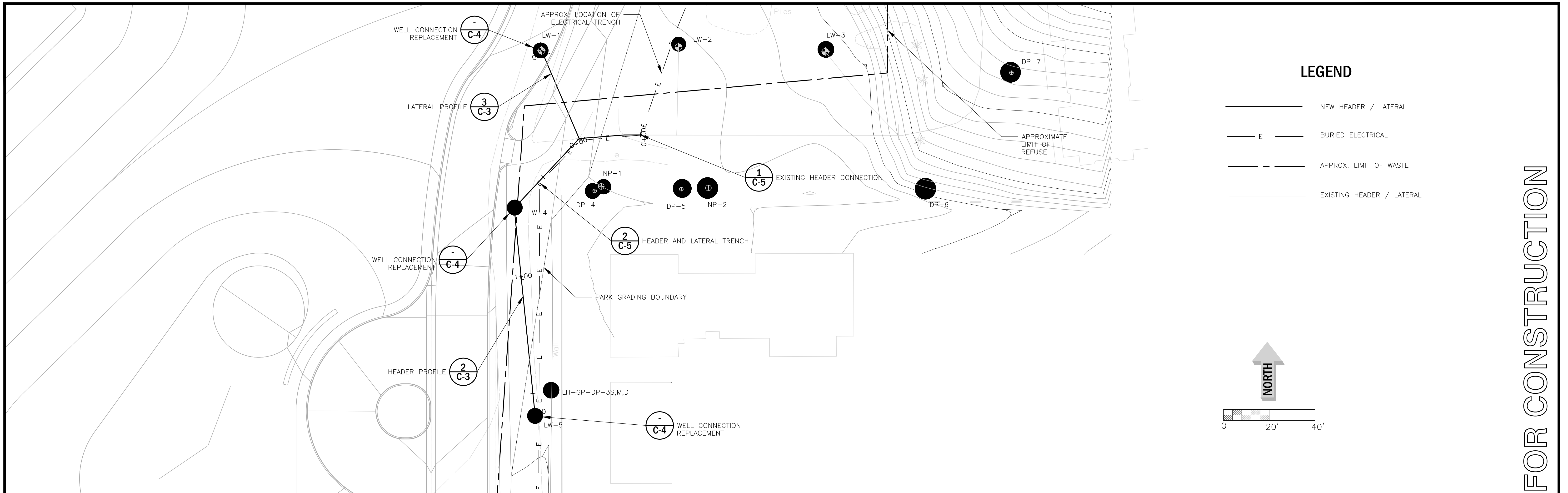
**TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



CITY OF LA HABRA / VISTA GRANDE PARK

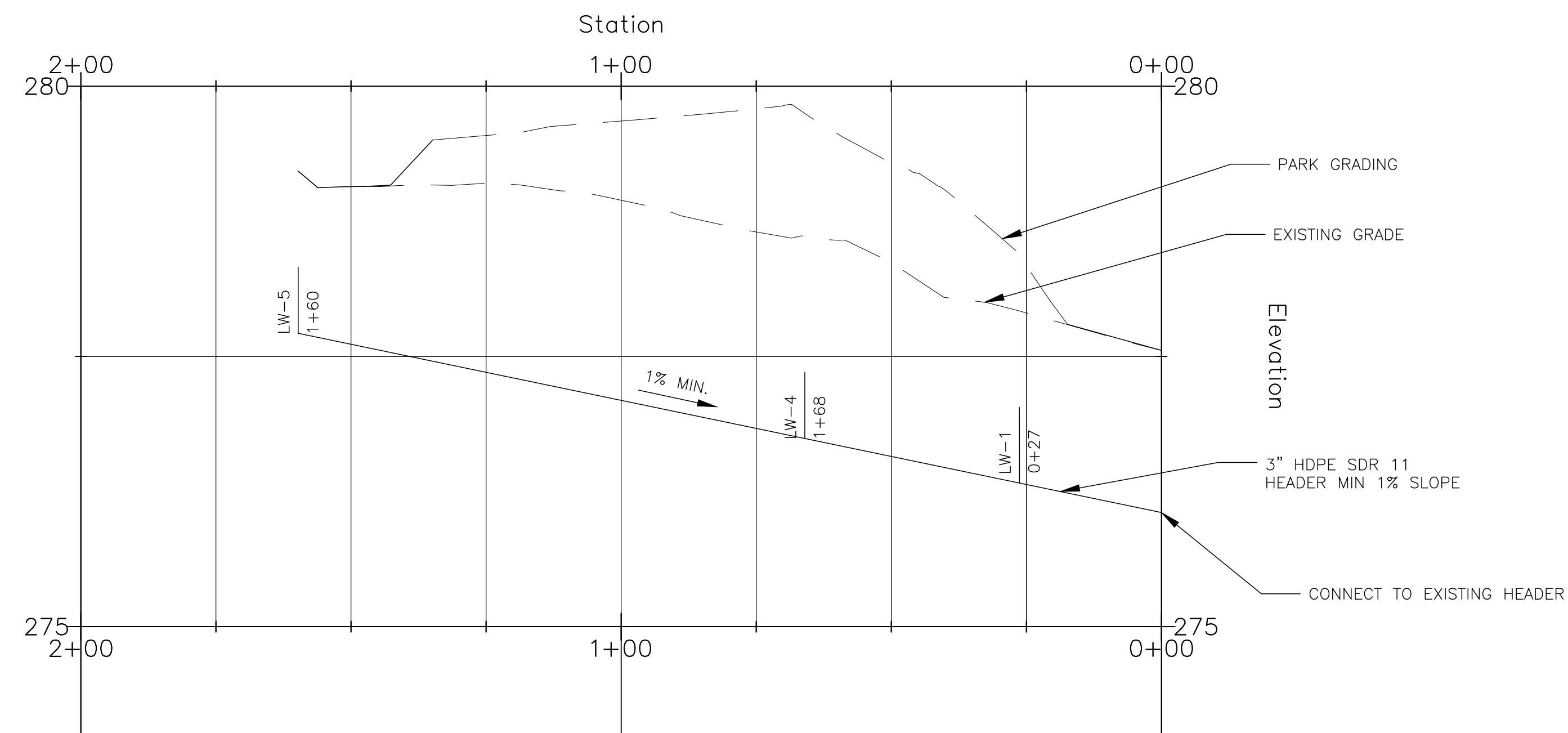
**SITE OVERVIEW**

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CHECKED BY : A.M.P. & D.D.W.	DATE : 01-2021			
APPROVED BY : D.D.W.	DATE : 01-2021			



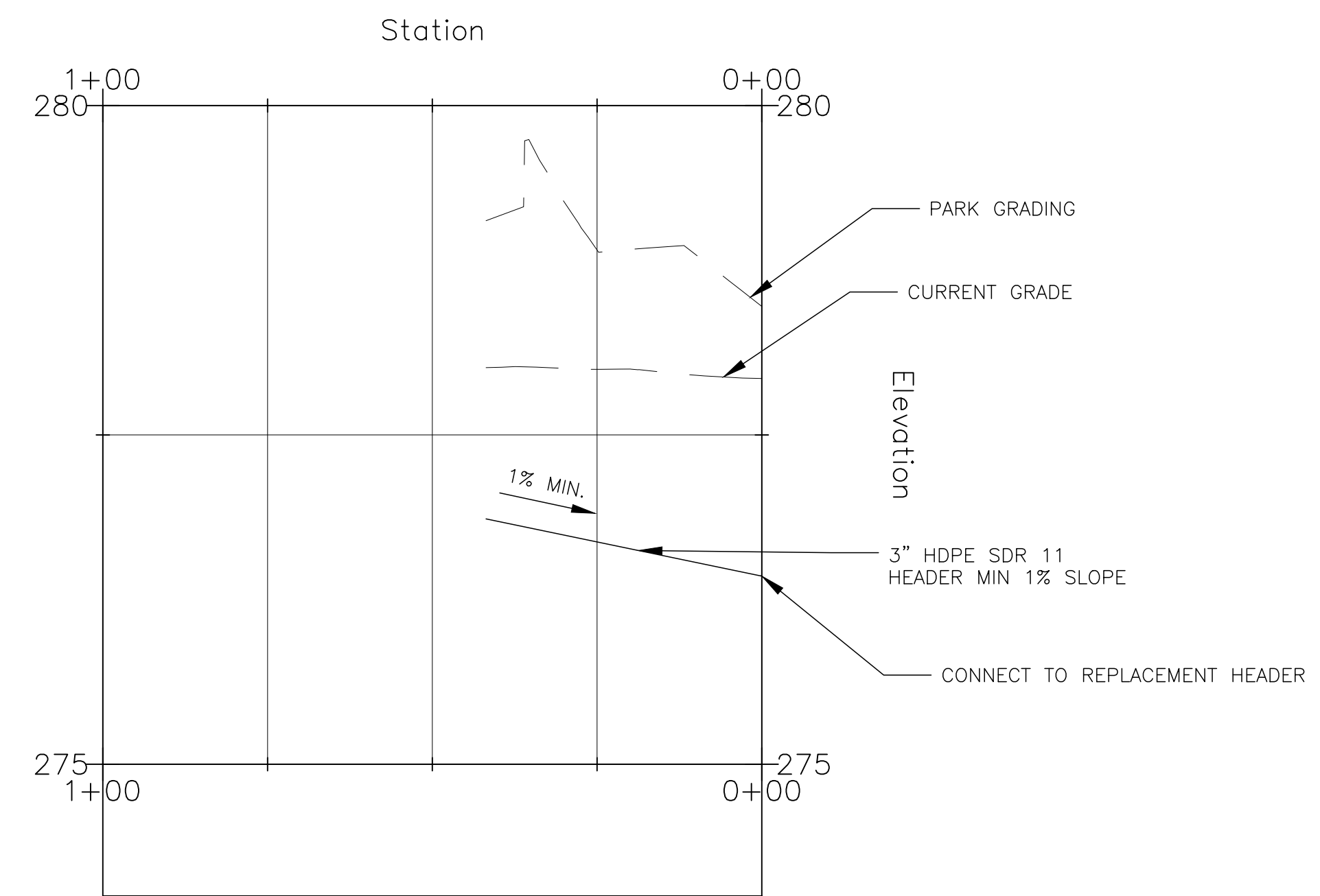
**WELL FIELD MODIFICATION OVERVIEW**  
SCALE: NONE

1  
C-3



**HEADER PROFILE**  
SCALE: NONE

2  
C-3



**LATERAL PROFILE**  
SCALE: NONE

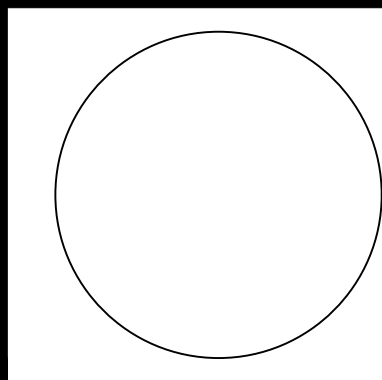
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C-3



REVISION DESCRIPTION	DATE



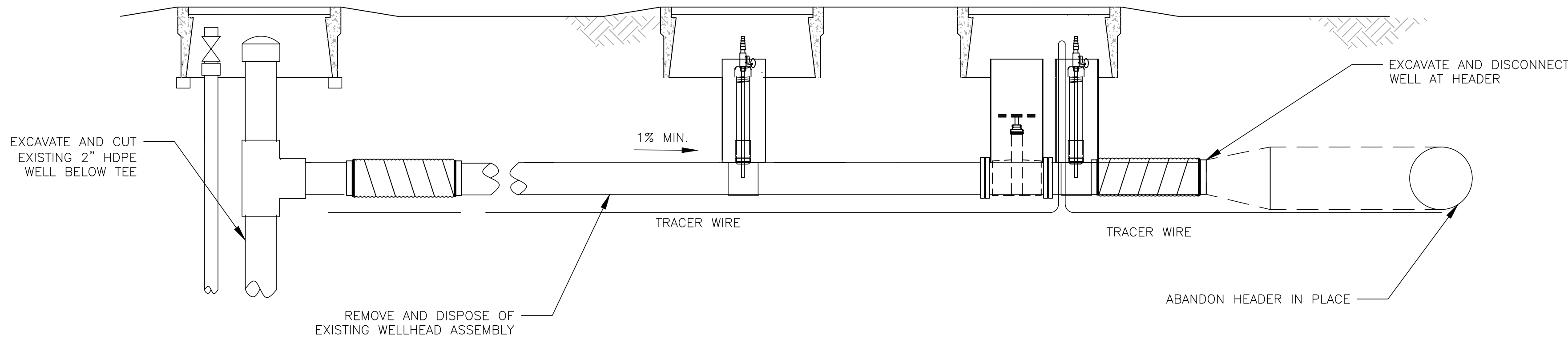
**TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



CITY OF LA HABRA / VISTA GRANDE PARK			
<b>WELL FIELD MODIFICATION OVERVIEW</b>			
DESIGNED BY: A.M.P. & D.D.W.	FILE: C2 V2.dwg	SCALE: AS SHOWN	
DRAWN BY: A.M.P.	DATE: 01-2021		
CHECKED BY: A.M.P. & D.D.W.	DATE: 01-2021	<b>C-3</b>	SHEET 3 OF 5
APPROVED BY: D.D.W.	DATE: 01-2021		

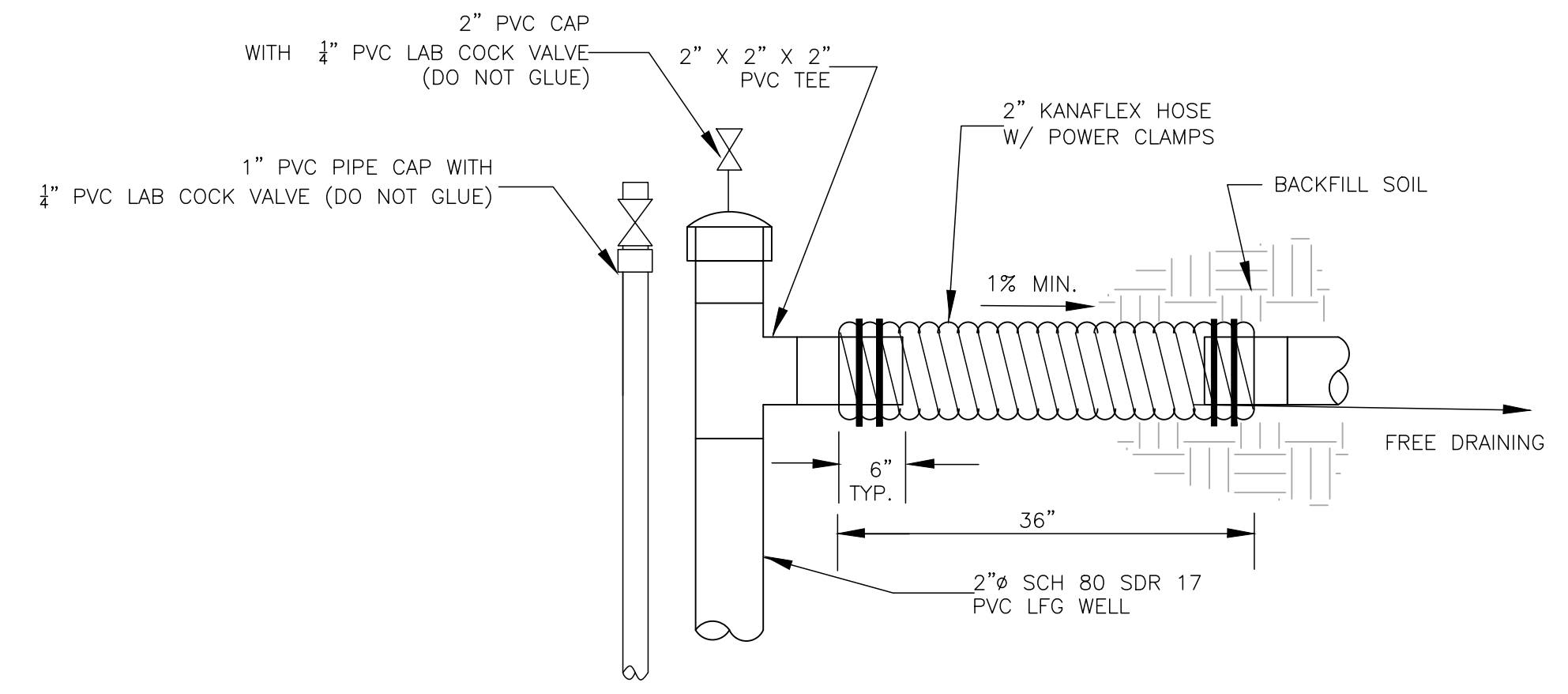
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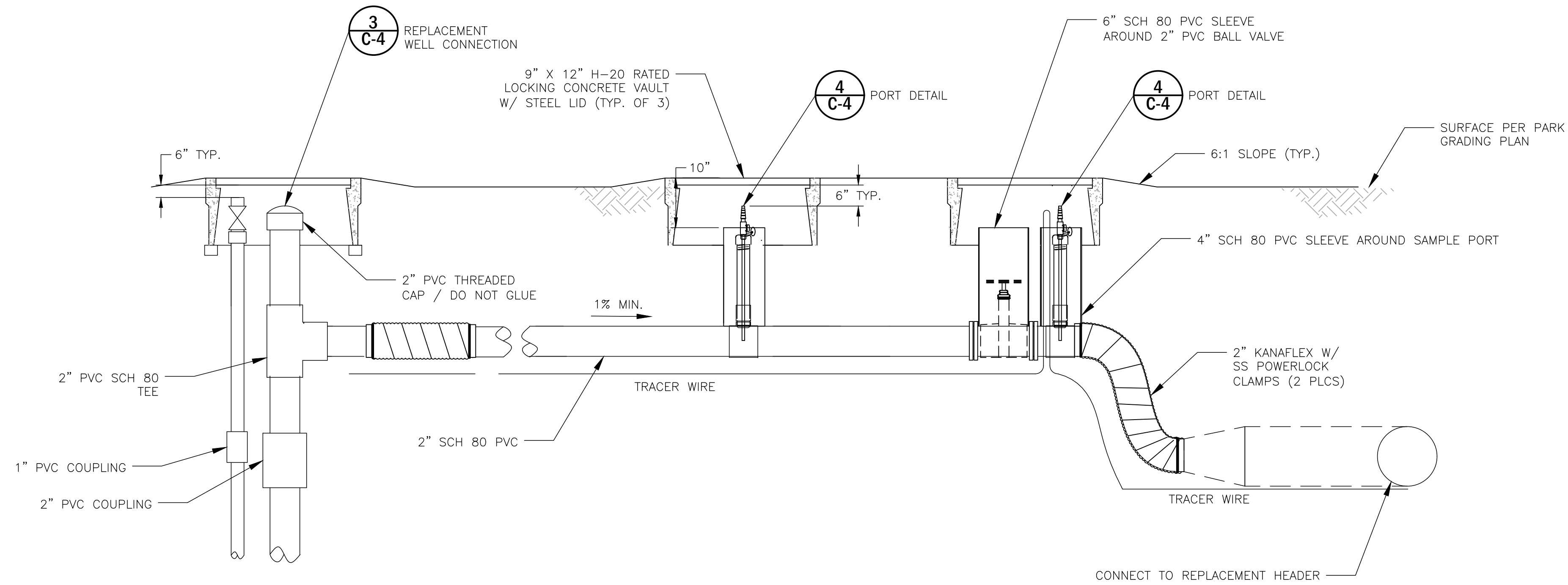
**EXISTING WELL CONNECTION DETAIL**  
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**1**  
C-4



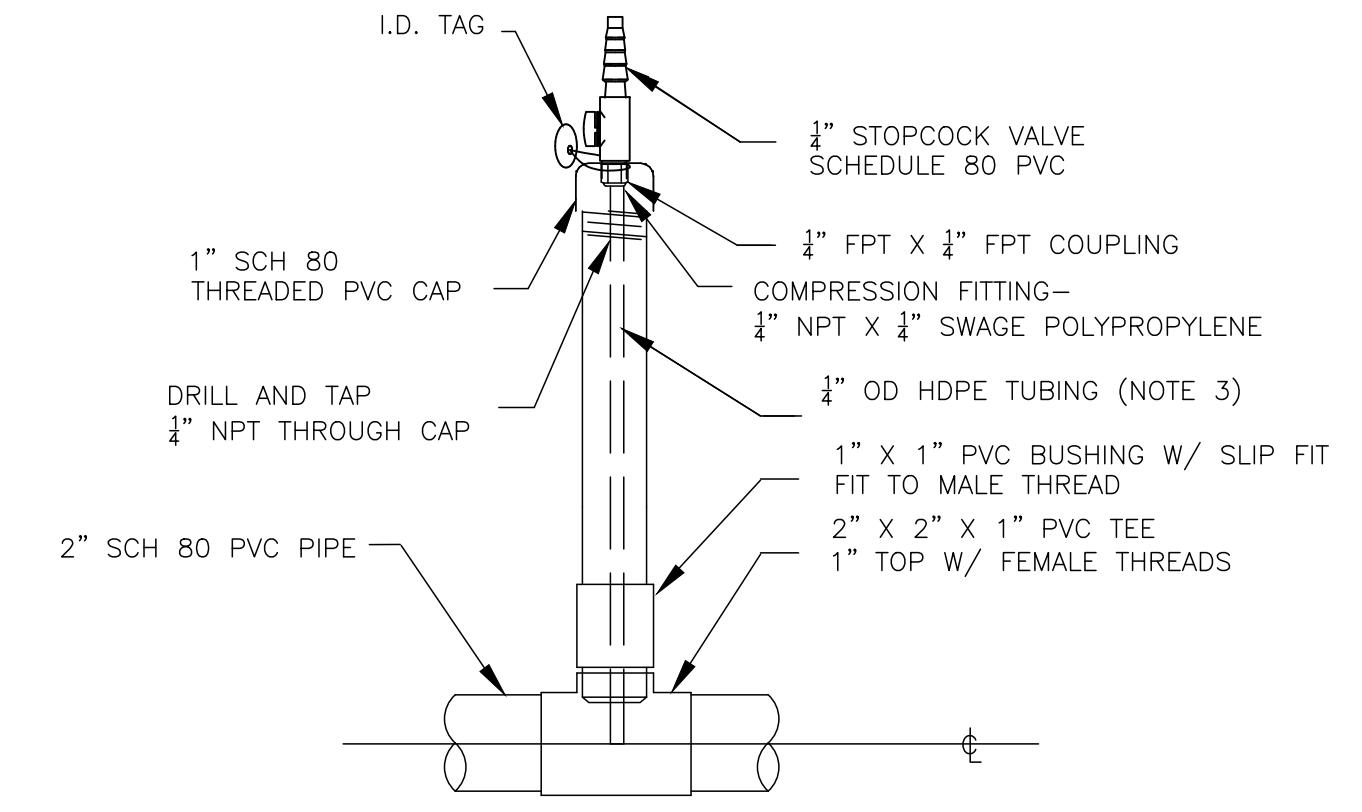
**REPLACEMENT WELL CONNECTION**  
SCALE: NONE

**3**  
C-4



**REPLACEMENT WELL CONNECTION DETAIL**  
SCALE: NONE

**2**  
C-4



**PORT DETAIL**  
SCALE: NONE

**4**  
C-4

- NOTES:  
 1. SEAL ALL PIPE THREADS WITH TEFLON PASTE.  
 2. REAM INSIDE OF 1" RISER TO ALLOW CLEAR AND EASY PASSAGE OF 1/4" OD TUBE.  
 3. EXTEND 1/4" TUBE TO  $\phi$  OF PIPE

30% SUBMITTAL - NOT FOR CONSTRUCTION

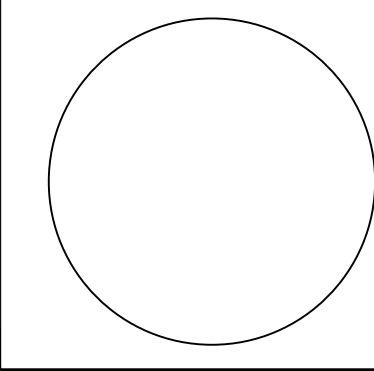
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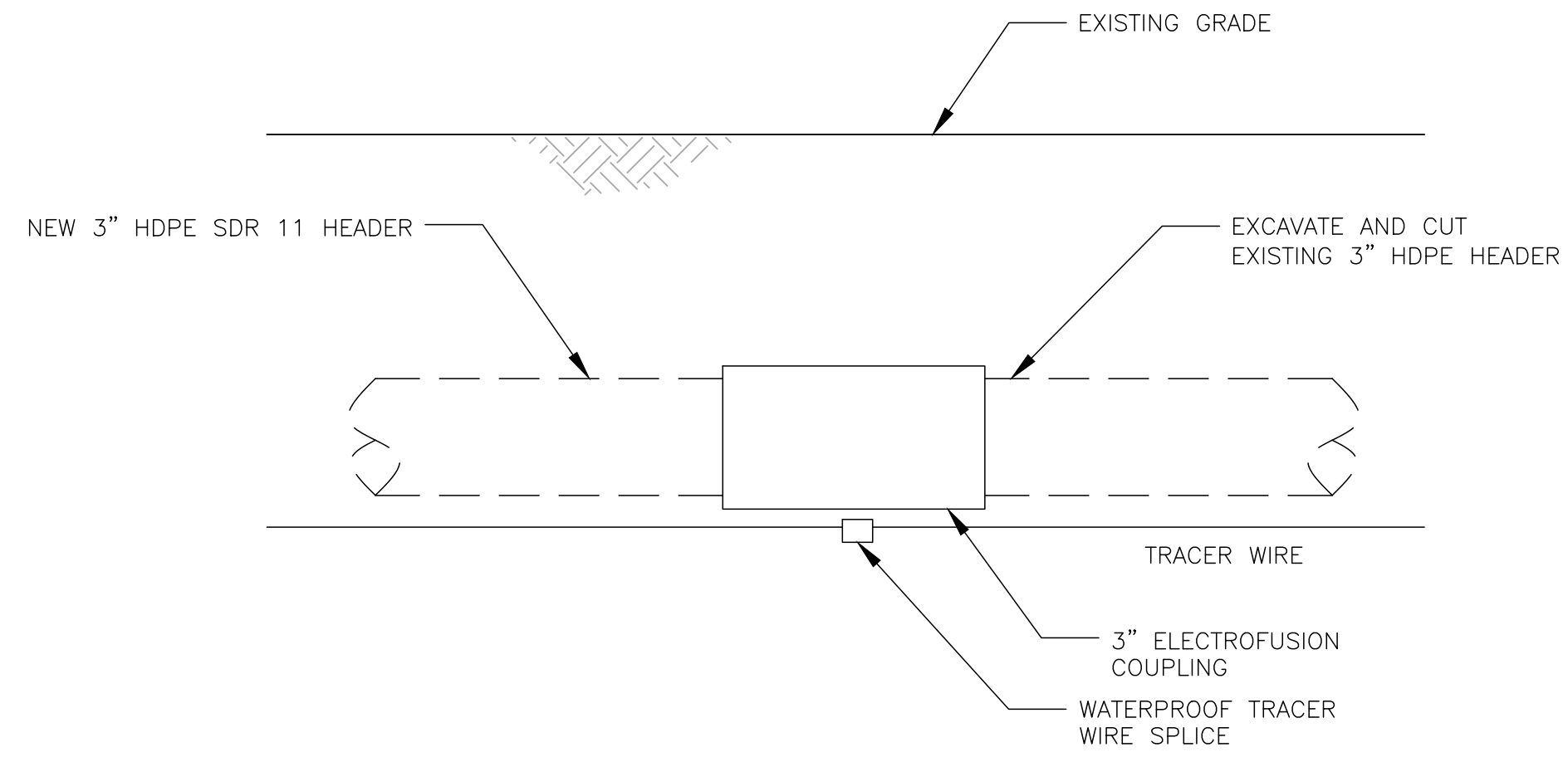
NO.	REVISION DESCRIPTION	DATE



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 Diamond Bar, CA 91765  
 TEL 909.860.7777 FAX 909.860.8017

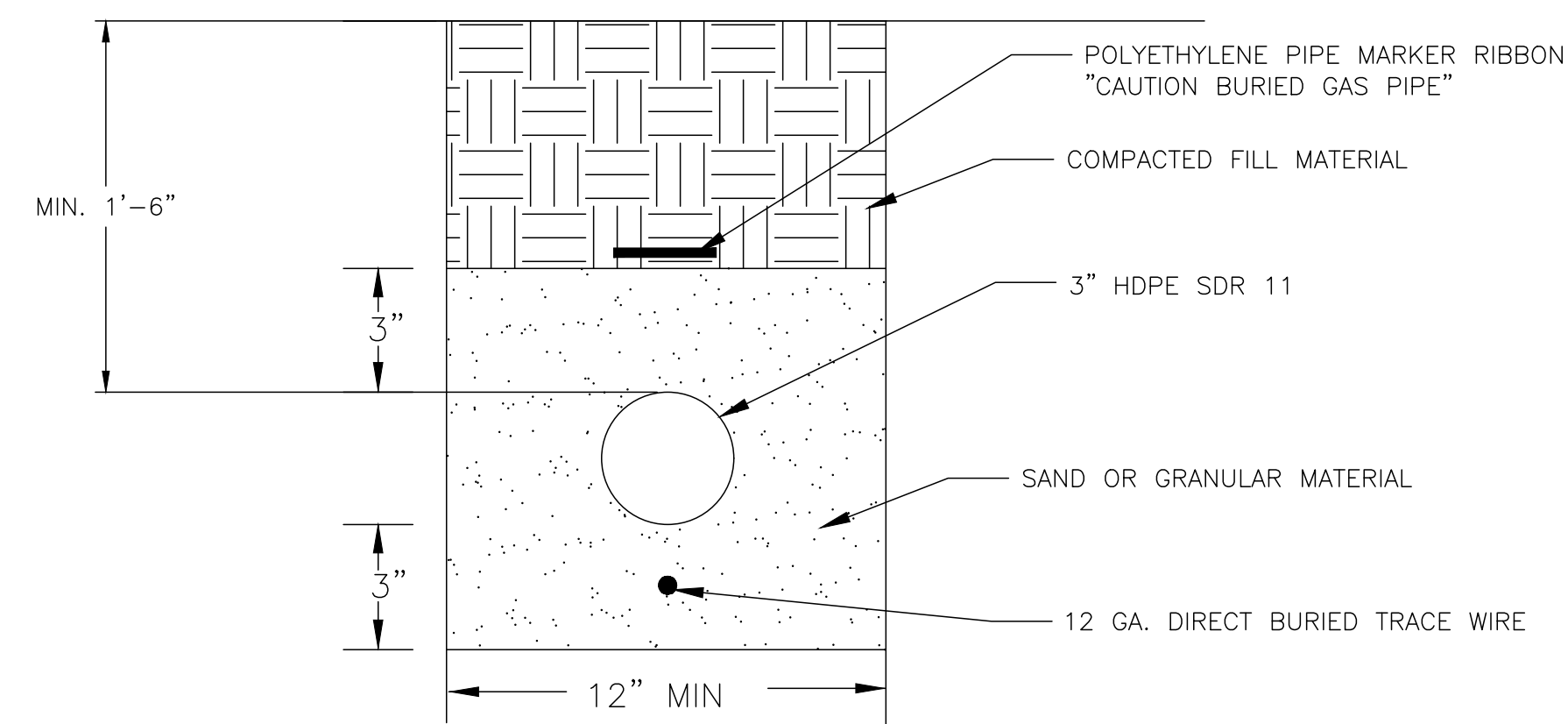


CITY OF LA HABRA / VISTA GRANDE PARK			
WELL MODIFICATION DETAIL			
DESIGNED BY: A.M.P. & D.D.W.	FILE: C-3.dwg		
DRAWN BY: A.M.P.	DATE: 01-2021	SCALE: AS SHOWN	
CHECKED BY: A.M.P. & D.D.W.	DATE: 01-2021	<b>C-4</b>	SHEET 4 OF 5
APPROVED BY: D.D.W.	DATE: 01-2021		



**HEADER CONNECTION**  
SCALE: NONE

1  
C-5



**HEADER AND LATERAL TRENCH**  
SCALE: NONE

2  
C-5

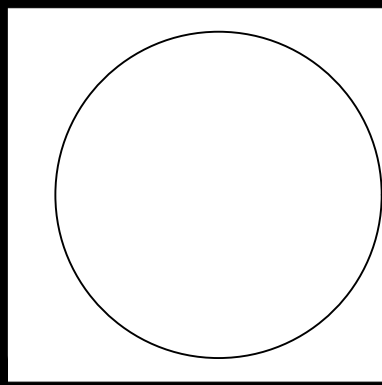
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NO.	REVISION DESCRIPTION	DATE



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21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



CITY OF LA HABRA / VISTA GRANDE PARK			
<b>HEADER DETAIL</b>			
DESIGNED BY :	A.M.P. & D.D.W.	FILE :	C-3.dwg
DRAWN BY :	A.M.P.	DATE :	01-2021
CHECKED BY :	A.M.P. & D.D.W.	DATE :	01-2021
APPROVED BY :	D.D.W.	DATE :	01-2021
<b>C-5</b>		SCALE :	AS SHOWN
		SHEET	<b>5 OF 5</b>

**PAVING SCHEDULE**

SYMBOL	ITEM	COLOR/FINISH	COMMENTS	DETAIL
PV-01	CAST-IN-PLACE CONCRETE PAVING	COLOR: NATURAL GRAY FINISH: LIGHT BROOM	PROVIDE THREE (3) 4'X4' MOCKUPS TO GIVE A RANGE OF FINISHES FOR REVIEW & APPROVAL	DETAIL #1 & #2 / SHEET L401
PV-02	CAST IN PLACE CONCRETE PAVING WITH INTEGRAL COLOR	SCOFIELD COLOR: COACHELLA SAND FINISH: BROOM FINISH	PROVIDE SAMPLES AND MOCKUP FOR APPROVAL	DETAIL #1 & #2 / SHEET L401
PV-03	STABILIZED DECOMPOSED GRANITE	COLOR: CALIFORNIA GOLD AVAIL. FROM SOUTHWEST BOULDER	PROVIDE SAMPLES AND MOCKUP FOR APPROVAL	DETAIL #4 / SHEET L401
PV-04	BALLFILED MIX STABILIZED DECOMPOSED GRANITE	ANGEL MIX W/ STABILIZER AVAIL. FROM CORONA CLAY	PROVIDE SAMPLES AND MOCKUP FOR APPROVAL	DETAIL #5 / SHEET L401
PV-05	AC PAVING SEE CIVIL PLANS			

**FINISH SCHEDULE**

SYMBOL	ITEM	COLOR/FINISH	COMMENTS	DETAIL
F-01	CAST-IN-PLACE CONCRETE CURB	COLOR: NATURAL GRAY FINISH: TROWEL FINISH	PROVIDE SAMPLES AND MOCKUP FOR APPROVAL	DETAIL #3 / SHEET L402
F-02	CMU BLOCK WALL W/ PRECAST CONCRETE CAP	COLOR: NATURAL GRAY FINISH: SPLIT FACE AVAIL. FROM ANGELUS BLOCK	PROVIDE SAMPLES AND MOCKUP FOR APPROVAL	DETAIL #x / SHEET L-x

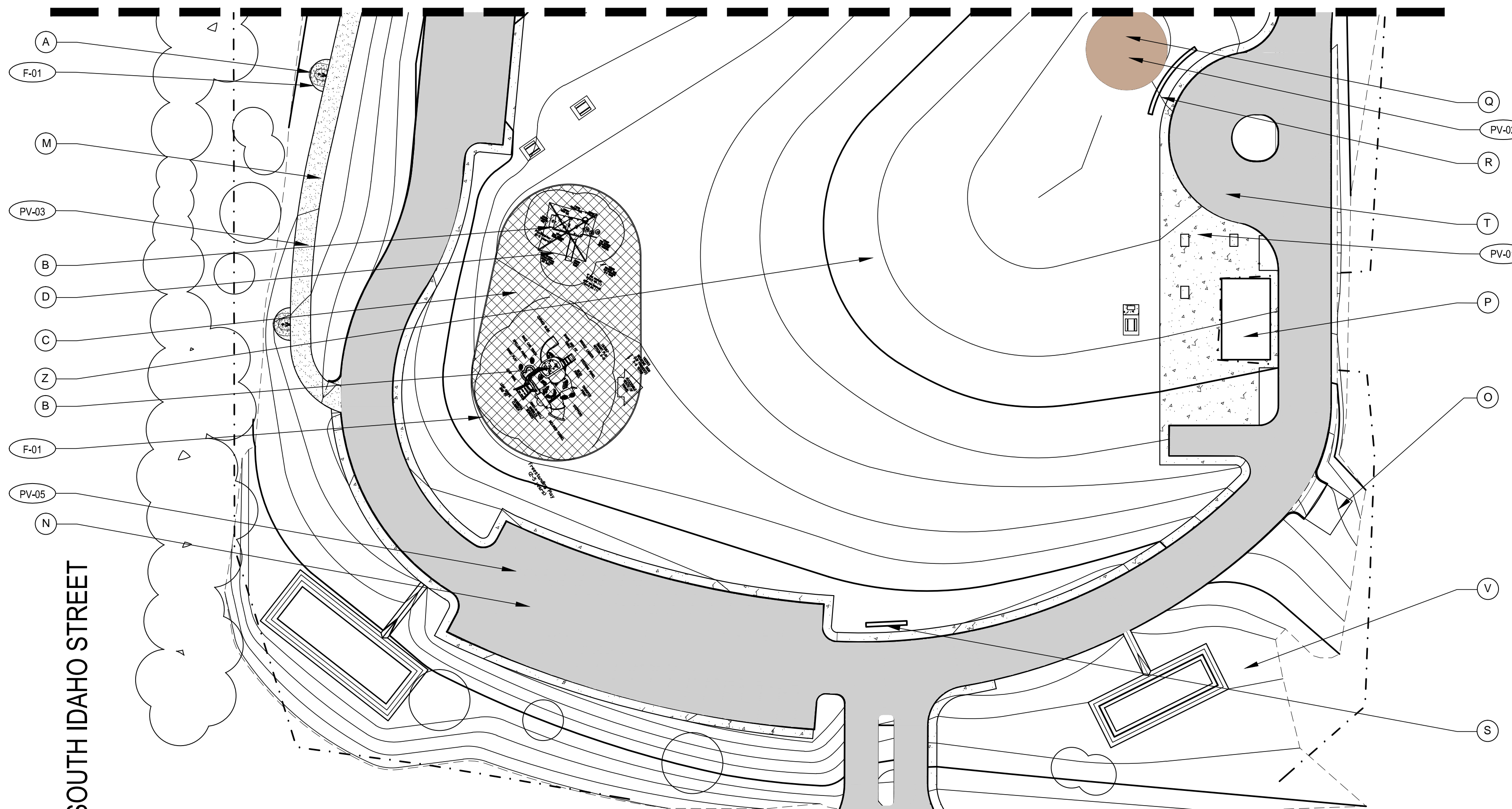
**CONSTRUCTION NOTES**

- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT FOR THE INSTALLATION OF ALL IMPROVEMENTS AS SHOWN ON THE DRAWINGS
- CONTRACTOR SHALL REVIEW ALL EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID AND PRIOR TO COMMENCING INSTALLATION. IF ANY DISCREPANCIES EXIST, THEY SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
- DEVIATIONS BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
- COSTS INCURRED DUE TO REPAIR, RESTORATION, OR REPLACEMENT OF EXISTING IMPROVEMENTS WHICH ARE DESIGNATED "TO BE PROTECTED" OR "TO REMAIN" WHICH ARE DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- UNLESS DESIGNATED ON THE DRAWINGS OTHERWISE, ALL MATERIALS DESIGNATED FOR REMOVAL SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER ACCORDING TO THE LAW.
- HARDSCAPE AND STRUCTURAL ELEMENTS SHALL BE PLACED PER GEOTECHNICAL SOILS REPORT. IF SUCH REPORT IS UNAVAILABLE, CONTRACTOR SHALL DISCUSS PLACEMENT ON SUITABLE GRADE WITH THE OWNER'S AUTHORIZED REPRESENTATIVE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND STAKING ALL SEWER, WATER AND UTILITY LINES ABOVE OR BELOW GRADE THAT MIGHT BE DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ANY COST INCURRED FOR REPAIR, RESTORATION, OR REPLACEMENT OF FOREMENTIONED UTILITIES DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS.
- ABANDONED PIPES SHALL BE CAPPED OR PLUGGED IN A MANNER APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
- CONCRETE INDICATED FOR SAWCUTTING AND REMOVAL SHALL BE CUT TO A TRUE LINE WITH NEATLY SAWED EDGES. IF A SAWCUT IS WITHIN THREE FEET (3') OF AN EXISTING EXPANSION OR CONTROL JOINT, CONCRETE SHALL BE REMOVED TO THAT NEAREST JOINT.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, MANUFACTURER'S CUT OR DATA SHEETS FOR APPROVAL PRIOR TO ORDERING MATERIALS. CONTRACTOR SHALL FURNISH TO THE OWNER'S AUTHORIZED REPRESENTATIVE A CERTIFICATE OF COMPLIANCE FOR SUCH FURNISHED MATERIALS.
- UNLESS DESIGNATED ON THE DRAWINGS OTHERWISE, MATERIALS TO BE PURCHASED AND FURNISHED BY THE CONTRACTOR SHALL BE NEW.
- FOR GRADING AND DRAINAGE REFER TO CIVIL PLANS.

**KEYNOTES LEGEND**

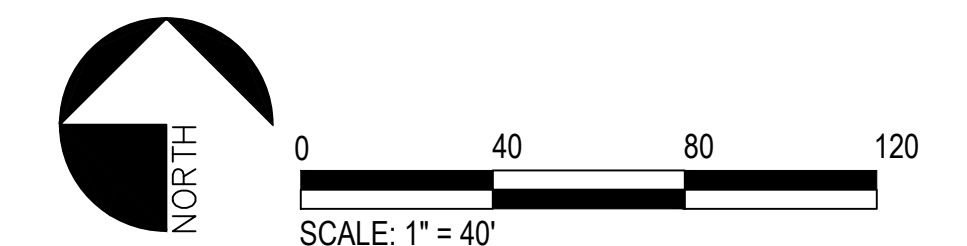
- (A) EXERCISE EQUIPMENT BY GREENFIELDS - HTTP://GFOUTDOORFITNESS.COM/ REFER TO DETAIL #3 / SHEET L402 & #2 / SHEET L403
- (B) PLAY STRUCTURE / TOT LOT BY GREAT WESTERN RECREATION 1-858-344-0445 www.gwpark.com CONTACT NAME: NATE YOUNKER
- (C) RUBBER SURFACE BY ROBERTSON INC. 800.858.0519 www.totturf.com MODEL:TOTOTURF COLOR: XXX REFER TO DETAIL # 2 / SHEET L-402
- (D) SHADE STRUCTURE (CHILDREN'S PLAY AREA) BY GREAT WESTERN RECREATION 1-858-344-0445 www.gwpark.com CONTACT NAME: NATE YOUNKER
- (E) BBQ'S - MODEL#: SF1635G / AVAIL. FROM KAY PARK / INSTALL PER MANUFACTURERS INSTRUCTIONS / QTY. -XX - FINAL LOCATION T.B.D. BY OWNER
- (F) PICNIC TABLE BY GREAT WESTERN RECREATION 1-858-344-0445 www.gwpark.com CONTACT NAME: NATE YOUNKER MODEL: P592 AND P1309 (WHEEL CHAIR ACCESSIBLE)
- (G) TRASH RECEPTACLE W/ RECYCLED PLASTIC PLANKS & DOME LID - MODEL #: 1150-PL/M1 / AVAIL. FROM PATTERSON/ WILLIAMS ATHLETIC / QTY. - XX. REFER TO DETAIL # 1 / SHEET L402 - FINAL LOCATION T.B.D. BY OWNER
- (H) 5'-0" PARK BENCH WITH ARM RESTS - BENCH MODEL #: 111640A-H / ARM REST MODEL #: 114767A / AVAIL. FROM LANDSCAPE STRUCTURES. - QTY. - XX REFER TO DETAIL # 7 / SHEET L401
- (I) BIKE RACK - MODEL #: WLBR-SERIES / POWDER COATED COLOR: BLUE / AVAIL. FROM LANDSCAPE STRUCTURES. REFER TO DETAIL # 6 / SHEET L401
- (J) DRINKING FOUNTAIN & WATER BOTTLE FILLER - DRINKING FOUNTAIN - MODEL #: 3202, GALVANIZED / AVAIL. FROM HAWS / QTY. - XX - WATER BOTTLE FILLER - MODEL #: 3377G / 3377BF, GALVANIZED / AVAIL. FROM HAWS / QTY. - XX REFER TO DETAIL #8 / SHEET L401
- (K) CAST-IN-PLACE CONCRETE PAVING - REFER TO DETAIL #1 & #2 / SHEET L401
- (L) PRECAST PAVERS - REFER TO DETAIL #3 / SHEET L401
- (M) STABILIZED DECOMPOSED GRANITE - REFER TO DETAIL #4 / SHEET L401
- (N) PARKING LOT AND CURB - REFER TO CIVIL PLANS
- (O) TRASH ENCLOSURE - REFER TO SHEET L404 & 405
- (P) RESTROOMS AND STORAGE BUILDING - REFER TO DETAIL #1 SHEET L403
- (Q) AMPHITHEATER
- (R) COMMUNITY ART WALL
- (S) PARK ENTRY SIGN
- (T) FOOD TRUCK CIRCLE
- (U) GAZEBO
- (V) FREE PLAY AREA
- (X) VOLLEYBALL COURT
- (Y) FUTSAL / BASKETBALL COURT
- (Z) FUTURE LOCATION OF JV SOFTBALL FIELD

MATCH LINE - SEE SHEET L-102



SOUTH IDAHO STREET

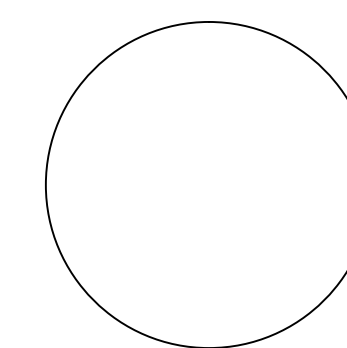
LAS LOMAS DRIVE



**Troller Mayer Associates, Inc**  
Landscape Architecture Planning Urban Design  
1403 Kenneth Road, Suite B  
Glendale, California 91201-1421  
Ph:(818)956-8101 Fx:(818) 956-0120  
E-mail: rmayer@trollermayer.com

NO.	REVISION DESCRIPTION	BY:

**TE TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



LA HABRA LANDFILL VISTA GRANDE PARK <b>CONSTRUCTION LAYOUT PLAN</b>			
DESIGNED BY: TMA	DATE: 01-25-2020	SCALE: AS SHOWN	<b>L-101</b> SHEET 1 OF 21
DRAWN BY: TMA	DATE:		
CHECKED BY: JM	DATE:		
APPROVED BY: RM	DATE:		

PROGRESS 50% CD SUBMITTAL (NOT FOR CONSTRUCTION)

WEST LAMBERT ROAD

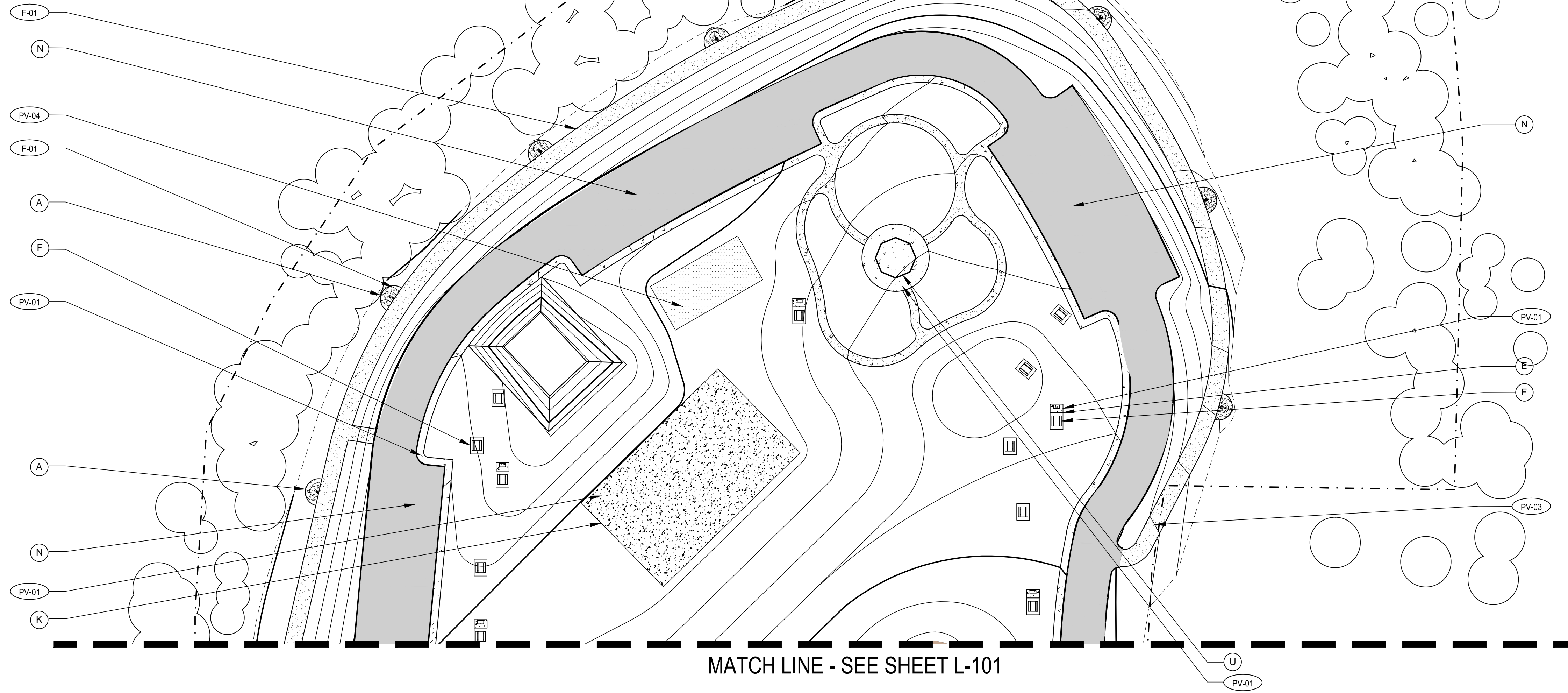
PAVING SCHEDULE

SYMBOL	ITEM	COLOR/FINISH	COMMENTS	DETAIL
PV-01	CAST-IN-PLACE CONCRETE PAVING	COLOR: NATURAL GRAY FINISH: LIGHT BROOM	PROVIDE THREE (3) 4'X4' MOCKUPS TO GIVE A RANGE OF FINISHES FOR REVIEW & APPROVAL	DETAIL #1 & #2 / SHEET L401
PV-02	CAST IN PLACE CONCRETE PAVING WITH INTEGRAL COLOR	SCOFIELD COLOR: COACHELLA SAND FINISH: BROOM FINISH	PROVIDE SAMPLES AND MOCKUP FOR APPROVAL	DETAIL #1 & #2 / SHEET L401
PV-03	STABILIZED DECOMPOSED GRANITE	COLOR: CALIFORNIA GOLD AVAIL. FROM SOUTHWEST BOULDER	PROVIDE SAMPLES AND MOCKUP FOR APPROVAL	DETAIL #4 / SHEET L401
PV-04	BALL FILED MIX STABILIZED DECOMPOSED GRANITE	ANGEL MIX W/ STABILIZER AVAIL. FROM CORONA CLAY	PROVIDE SAMPLES AND MOCKUP FOR APPROVAL	DETAIL #5 / SHEET L401
PV-05	AC PAVING SEE CIVIL PLANS			

FINISH SCHEDULE

SYMBOL	ITEM	COLOR/FINISH	COMMENTS	DETAIL
F-01	CAST-IN-PLACE CONCRETE CURB	COLOR: NATURAL GRAY FINISH: TROWEL FINISH	PROVIDE SAMPLES AND MOCKUP FOR APPROVAL	DETAIL #3 / SHEET L402
F-02	CMU BLOCK WALL W/ PRECAST CONCRETE CAP	COLOR: NATURAL GRAY FINISH: SPLIT FACE AVAIL. FROM ANGELUS BLOCK	PROVIDE SAMPLES AND MOCKUP FOR APPROVAL	DETAIL #x / SHEET L-x

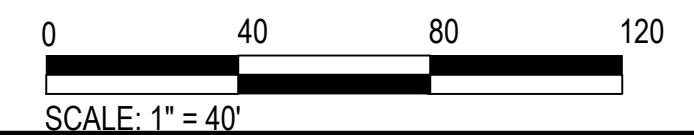
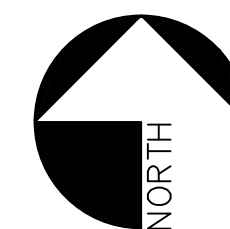
SOUTH IDAHO STREET



MATCH LINE - SEE SHEET L-101

KEYNOTES LEGEND

- (A) EXERCISE EQUIPMENT BY GREENFIELDS - HTTP://GFOOTDOORFITNESS.COM/ REFER TO DETAIL #3 / SHEET L402 & #2 / SHEET L403
- (B) PLAY STRUCTURE / TOT LOT BY GREAT WESTERN RECREATION 1-858-344-0445 www.gwpark.com CONTACT NAME: NATE YOUNKER
- (C) RUBBER SURFACE BY ROBERTSON INC. 800.858.0519 www.totturf.com MODEL:TOTOTURF COLOR: XXX REFER TO DETAIL # 2 / SHEET L-402
- (D) SHADE STRUCTURE (CHILDREN'S PLAY AREA) BY GREAT WESTERN RECREATION 1-858-344-0445 www.gwpark.com CONTACT NAME: NATE YOUNKER
- (E) BBQ'S - MODEL#: SF1635G / AVAIL. FROM KAY PARK / INSTALL PER MANUFACTURERS INSTRUCTIONS / QTY. -XX - FINAL LOCATION T.B.D. BY OWNER
- (F) PICNIC TABLE BY GREAT WESTERN RECREATION 1-858-344-0445 www.gwpark.com CONTACT NAME: NATE YOUNKER MODEL: P592 AND P1309 (WHEEL CHAIR ACCESSIBLE)
- (G) TRASH RECEPTACLE W/ RECYCLED PLASTIC PLANKS & DOME LID - MODEL #: 1150-PLM1 / AVAIL. FROM PATTERSON/WILLIAMS ATHLETIC / QTY. - XX. REFER TO DETAIL # 1 / SHEET L402 - FINAL LOCATION T.B.D. BY OWNER
- (H) 5'-0" PARK BENCH WITH ARM RESTS - BENCH MODEL #: 11640A-H / ARM REST MODEL #: 114767A / AVAIL. FROM LANDSCAPE STRUCTURES. - QTY. - XX REFER TO DETAIL # 7 / SHEET L401
- (I) BIKE RACK - MODEL #: WLBR-SERIES / POWDER COATED COLOR: BLUE / AVAIL. FROM LANDSCAPE STRUCTURES. REFER TO DETAIL # 6 / SHEET L401
- (J) DRINKING FOUNTAIN & WATER BOTTLE FILLER - DRINKING FOUNTAIN - MODEL #: 3202, GALVANIZED / AVAIL. FROM HAWS / QTY. - XX - WATER BOTTLE FILLER - MODEL #: 3377G / 3377BF, GALVANIZED / AVAIL. FROM HAWS / QTY. - XX REFER TO DETAIL #8 / SHEET L401
- (K) CAST-IN-PLACE CONCRETE PAVING - REFER TO DETAIL #1 & #2 / SHEET L401
- (L) PRECAST PAVERS - REFER TO DETAIL #3 / SHEET L401
- (M) STABILIZED DECOMPOSED GRANITE - REFER TO DETAIL #4 / SHEET L401
- (N) PARKING LOT AND CURB - REFER TO CIVIL PLANS
- (O) TRASH ENCLOSURE - REFER TO SHEET L404 & 405
- (P) RESTROOMS AND STORAGE BUILDING - REFER TO DETAIL #1 SHEET L403
- (Q) AMPHITHEATER
- (R) COMMUNITY ART WALL
- (S) PARK ENTRY SIGN
- (T) FOOD TRUCK CIRCLE
- (U) GAZEBO
- (V) FREE PLAY AREA
- (X) VOLLEYBALL COURT
- (Y) FUTSAL / BASKETBALL COURT
- (Z) FUTURE LOCATION OF JV SOFTBALL FIELD

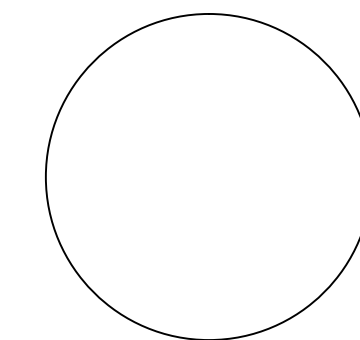


PROGRESS 50% CD SUBMITTAL (NOT FOR CONSTRUCTION)

Troller Mayer Associates, Inc  
Landscape Architecture Planning Urban Design  
1403 Kenneth Road, Suite B  
Glendale, California 91201-1421  
Ph:(818)956-8101 Fx:(818) 956-0120  
E-mail: rmayer@trollermayer.com

NO.	REVISION DESCRIPTION	BY:

**TE TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



LA HABRA LANDFILL			
VISTA GRANDE PARK			
<b>CONSTRUCTION LAYOUT PLAN</b>			
DESIGNED BY: TMA	DATE: 01-25-2020	SCALE: AS SHOWN	
DRAWN BY: TMA	DATE:		
CHECKED BY: JM	DATE:		
APPROVED BY: RM	DATE:		
<b>L-102</b>			<b>SHEET 2 OF 21</b>

**GENERAL NOTES:**

1. ALL CONTROL AND COMMON WIRE TO BE AWG #14UF-600 VOLT SOLID COPPER.
2. PROVIDE P.V.C. SCHED. 40 SLEEVES FOR ALL LATERAL AND PRESSURE LINE AND CONTROL WIRING UNDER PAVING. INSTALL WITH 30" OF COVER AND RECOMPACT TO 95%. SEE SPECIAL INSTRUCTION NOTE #6. USE SEPARATE SLEEVES FOR MAINLINE, LATERAL AND WIRE.
3. ACTUAL LOCATION OF AUTOMATIC CONTROLLER TO BE VERIFIED WITH OWNER OR HIS REPRESENTATIVE.
4. IF MAINLINE AND CONTROL VALVES SHOWN IN WALK AREAS, IT IS FOR CLARITY ONLY. ROUTE IN PLANTED AREAS.
5. USE TEFLON TAPE OR DOPE ON ALL MALE PIPE THREADS OF CONTROL ASSEMBLY, SWING JOINT AND BACKFLOW ASSEMBLY.
6. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS AND/OR BUILDINGS, AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT EXISTING SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH.
7. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, INCLUDING NEW PLANT MATERIALS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT ARE IN CONFLICT WITH THE PLANS. SUCH CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE IN WRITING. IN THE EVENT OF THE NOTIFICATION IS NOT PERFORMED, THE IRRIGATION INSTALLER SHALL ASSUME FULL RESPONSIBILITY FOR ANY ON-SITE ADJUSTMENTS NECESSARY TO MAKE SURE THE SYSTEM PERFORMS AT NO ADDITIONAL COST TO THE OWNER.
8. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATIONS OF WALKS, RETAINING WALLS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING STRUCTURES, ETC.
9. INSTALL VALVES IN SHRUB OR GROUND COVER AREAS 12" FROM EXISTING SIDEWALK AS SPACE PERMITS.
10. INSTALL ALL SPRAY HEADS 6" FROM PAVED SURFACES, AS SPACE PERMITS.
11. ALL SPRAY HEADS SHOULD BE ADJUSTED TO MINIMIZE OVERSPRAY ONTO WALKS AND MAXIMIZE COVERAGE.
12. A PLUMBING PERMIT SHALL BE OBTAINED FOR THE IRRIGATION SYSTEM BY THE IRRIGATION CONTRACTOR.
13. THE IRRIGATION CONTRACTOR SHALL KEEP AN ACCURATE RECORD OF ALL FIELD REVISIONS AND SHALL PRESENT THE OWNER AND SHALL PRESENT THE OWNER WITH AN "AS-BUILT" SET OF SEPARATE SETS AT THE CONCLUSION.
14. THE IRRIGATION SYSTEM SHALL BE TESTED IN THE FIELD BEFORE FINAL APPROVAL.

**CALSENSE TWO WIRE NOTES:**  
 3M SCOTCH CAST 3576G-N CONNECTORS.  
 MAX DISTANCE OF 100' BETWEEN STATION DECODER AND VALVE, OR 10' BETWEEN POC DECODER AND MASTER VALVE AND FLOW METER(S).  
 SPECIFY NUMBER \* OF DECODERS NEEDED, POC DECODER NEEDED FOR EACH MASTER VALVE AND FLOW METER, MAXIMUM OF 10 STATION DECODERS AND 10 OTHER TYPE DECODERS, I.E. POC DECODERS(S).

**TWO WIRE CABLE:**  
 PLEASE SPECIFY PAIGE CABLE P-1254-D OR HUNTER REGENCY CABLE IN CONDUIT, MAXIMUM TOTAL OF ALL RUNS IS 1,200 FEET, AT LEAST 125' CONDUIT RECOMMENDED.

**GROUNDING REQUIREMENTS:**  
 AT CONTROLLER, FIRST AND LAST DECODER AND EVERY 300 FEET OR LONGER AT A DECODER ONLY WITH ONE 5/8-INCH X 8-FOOT, COPPER CLAD GROUNDING ROD.  
 #6 AWG SOLID COPPER WIRE FROM THE GROUNDING ROD TO THE FIELD COMMON (WHITE WIRES IN THE BLACK HARNESS) OF THE CONTROLLER / OR BUILT IN GREEN GROUNDING WIRE OF DECODER.

**MAIN LINE AND RELATED EQUIPMENT**

RAINBIRD REMOTE CONTROL VALVE EFB-CP SERIES (1" 21/2" AND SUPERIOR 2500FFRS REMOTE CONTROL VALVE (2.5") SIZE PER PLAN)

DRIFP REMOTE CONTROL VALVE, RAINBIRD XGZ-100-FRB-COM

RAINBIRD 193-DLRC QUICK COUPLER VALVE IN BOX

5PEARS 2000 SERIES TRUE UNION BALL VALVE, LINE SIZE

NEW BACKFLOW PREVENTER FEBCO 880V-4" W/UYE STAINER 158A-4" INSIDE STRONG BOX 88BC-40CR ENCLOSURE, INSTALL PER LOCAL CODE LOCATION IS APPROXIMATE.

NEW IRRIGATION CONTROLLER CALSENSE 1A C83-20-SU/C83-GR /GR-SUBBY/COM1 5YR/C8-2U-28T/BD/C8-2U-POC/2/PB/M/125B

NEW IMPERIAL COACH SWITCH ASSEMBLY ICA18-182-3/18P

NEW 4" SEPARATE IRRIGATION WATER METER LOCATION IS APPROXIMATE AT THE PRESENT TIME. FINAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE OWNER REPRESENTATIVE.

LEVEL 2 (LARGE) CALSENSE FLOW METER FMBX INSERTION-STYLE FLOW METER FOR 3" AND LARGER PIPE. SCREWS INTO 2" NPT PIPE SADDLE. MASTER VALVE SUPERIOR 3000 (NORMALLY CLOSED)

LEVEL 1 (SMALL) CALSENSE FLOW METER FM-125B MASTER VALVE RAINBIRD 200-FEB

○ DENOTES MAIN LINE PIPE SIZE

□ DENOTES SLEEVE PIPE SIZE

— SLEEVE PIPING SCHEDULE 40 PVC PIPE SIZE PER PLAN, DEPTH AS NECESSARY

— NEW IRRIGATION SYSTEM MAIN PVC SCH 40 (2-1/2" & SMALLER), PVC CL35 (3" TO 4"), 4 PVC CL200 (6" & 12" TO 24" COVER - SIZE PER PLAN

SPRINKLER LATERAL PIPING, SCHEDULE 40 PVC PIPE, SIZE PER PLAN, 12" COVER ALL PIPING UNDER PAVING SHALL BE SCHEDULE 40 PVC PIPE DENOTES PIPE SIZE

VALVE SIZE

STATION \* GPM

TYPICAL VALVE DESIGNATOR

**SCH 40 PVC SLEEVING CHART**

SLEEVE SIZE	NO. OF WIRES	PIPE SIZE
1 1/4"	1-4 WIRES	1/2"
1 1/2"	5-10 WIRES	3/4"
2"	11-20 WIRES	1"
2 1/2"	21-30 WIRES	1 1/4"

**EVAPOTRANSPIRATION (ET<sub>o</sub>) TABLE:**

ET <sub>o</sub> VALUES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL ET <sub>o</sub>
	2.2	2.1	3.1	4.1	5.5	5.8	6.2	5.9	5.0	3.9	2.6	1.9	5.01

**WATER EFFICIENT WORK SHEET**

PROJECT NAME: The Vista Grande Park Renovation Project  
 PROJECT LOCATION: La Habra Landfill  
 TOTAL LANDSCAPE AREA: 484,023 sq. ft.

**Maximum Applied Water Allowance (MAWA)**

MAWA = (ET<sub>o</sub>) (0.62) [(0.7 x LA) + (0.3 x SLA)]

MAWA - Maximum Applied Water Allowance  
 ET<sub>o</sub> - Reference Evapo.  
 0.62 - Conversion factor (to gallons per square foot)  
 0.7 - ET Adjustment Factor (ETAF)  
 LA - Landscaped Area including Special Landscape Area  
 0.3 - Additional ET Adjustment Factor for Special Landscape Area (1.0 - 0.7 - 0.3)  
 SLA - Portion of Landscape Area identified as Special Landscape Area - see Definitions (square feet)

Applicant to fill in boxes below.

ET <sub>o</sub>	ETAF	AREA (a.f.)	Conversion	MAWA
50.1	0.55	484,023	0.62	7,827,415
50.1	0.3	222,167	0.62	2,070,285
<b>Total MAWA</b>				<b>9,897,701 (gallons per year)</b>

**Estimated Total Water Use (ETWU)**

ETWU = (ET<sub>o</sub>) (0.62) [(PF x HA) + (IE x SLA)]

ETWU - Estimated  
 ET<sub>o</sub> - Reference Evapo.  
 0.62 - Conversion factor (to gallons per square foot)  
 PF - Plant Factor from WUCOLS (see Definitions)  
 HA - Hydrozone Area - planting area separated to high, moderate, low and very low water use areas (square feet)  
 IE - Irrigation Efficiency - see Chart \*\* (minimum 0.71)  
 SLA - Portion of Landscape Area identified as Special Landscape Area - see Definitions (square feet)

ETWU arrived from Hydrozone Table below = 8,718,762 gallons per year

**HYDROZONE TABLE**

Hydrozone	plant water use type	plant factor (PF) (see table 1)	hydrozone area (HA) (square ft)	PF x HA (square ft)	% of landscape area (LA)	irrigation efficiency (IE)	Hydrozone ETWU	
1) Dip	low water	0.2	235,759	47,151	9.7%	0.86	1,723,071	
2) Bubblers	mod. water	0.4	6,100	2,440	0.5%	0.80	94,739	
							<b>Subtotal ETWU</b>	<b>1,817,810</b>
3) Rotor	SLA	0.2	222,167	44,433	4.6%	0.75	6,900,951	
<b>TOTAL</b>							<b>8,718,762</b>	

**LARGE POP-UP TURF ROTORS**

SYMBOL	MFGR.	MODEL	NOZZLE	P.S.I.	G.P.M.	RADIUS	ARC
⊙	RAINBIRD	FALCON	F4-PC-55	50	9.1	53'	ADJUSTABLE
⊙	RAINBIRD	FALCON	F4-PC-55	12	80	11.0	ADJUSTABLE

**INTERMEDIATE TURF ROTORS (RAINBIRD 5000 SERIES @ 25 P.S.I.)**

SYMBOL	MFGR.	MODEL	NOZZLE	P.S.I.	G.P.M.	RADIUS	ARC
⊙	RAINBIRD	5004-PC-SAM	MFR-35 (BEIGE)	25	1.40	32'	QUARTER
⊙	RAINBIRD	5004-PC-SAM	MFR-35 (BEIGE)	25	1.77	32'	THIRD
⊙	RAINBIRD	5004-PC-SAM	MFR-35 (BEIGE)	25	2.78	32'	HALF
⊙	RAINBIRD	5004-PC-SAM	MFR-35 (BEIGE)	25	5.36	32'	FULL (ADJUSTABLE)

**POP-UP TURF SPRAY HEADS**

SYMBOL	MFGR.	MODEL	NOZZLE	P.S.I.	G.P.M.	RADIUS	ARC
⊙	RAINBIRD	1804 SAM PRS	18VAN	30	5.32	18'	TO 360'
⊙	RAINBIRD	1804 SAM PRS	18VAN	30	2.66	18'	TO 180'
⊙	RAINBIRD	1804 SAM PRS	18VAN	30	1.33	18'	TO 90'
⊙	RAINBIRD	1804 SAM PRS	15F	30	3.70	15'	360'
⊙	RAINBIRD	1804 SAM PRS	15H	30	1.85	15'	180'
⊙	RAINBIRD	1804 SAM PRS	15T	30	1.23	15'	120'
⊙	RAINBIRD	1804 SAM PRS	15Q	30	.93	15'	90'
⊙	RAINBIRD	1804 SAM PRS	15VAN	30	1.85	15'	TO 180'
⊙	RAINBIRD	1804 SAM PRS	15VAN	30	.93	15'	TO 90'
⊙	RAINBIRD	1804 SAM PRS	12F	30	2.60	12'	360'
⊙	RAINBIRD	1804 SAM PRS	12H	30	1.30	12'	180'
⊙	RAINBIRD	1804 SAM PRS	12T	30	.87	12'	120'
⊙	RAINBIRD	1804 SAM PRS	12Q	30	.65	12'	90'
⊙	RAINBIRD	1804 SAM PRS	12VAN	30	1.30	12'	TO 180'
⊙	RAINBIRD	1804 SAM PRS	12VAN	30	.65	12'	TO 90'
⊙	RAINBIRD	1804 SAM PRS	10F	30	1.57	10'	360'
⊙	RAINBIRD	1804 SAM PRS	10H	30	.74	10'	180'
⊙	RAINBIRD	1804 SAM PRS	10Q	30	.34	10'	90'
⊙	RAINBIRD	1804 SAM PRS	8H	30	.52	8'	180'
⊙	RAINBIRD	1804 SAM PRS	8Q	30	.26	8'	90'
⊙	RAINBIRD	1804 SAM PRS	5H	30	.20	5'	180'
⊙	RAINBIRD	1804 SAM PRS	5Q	30	.10	5'	90'

**ROOT WATERING SYSTEM**

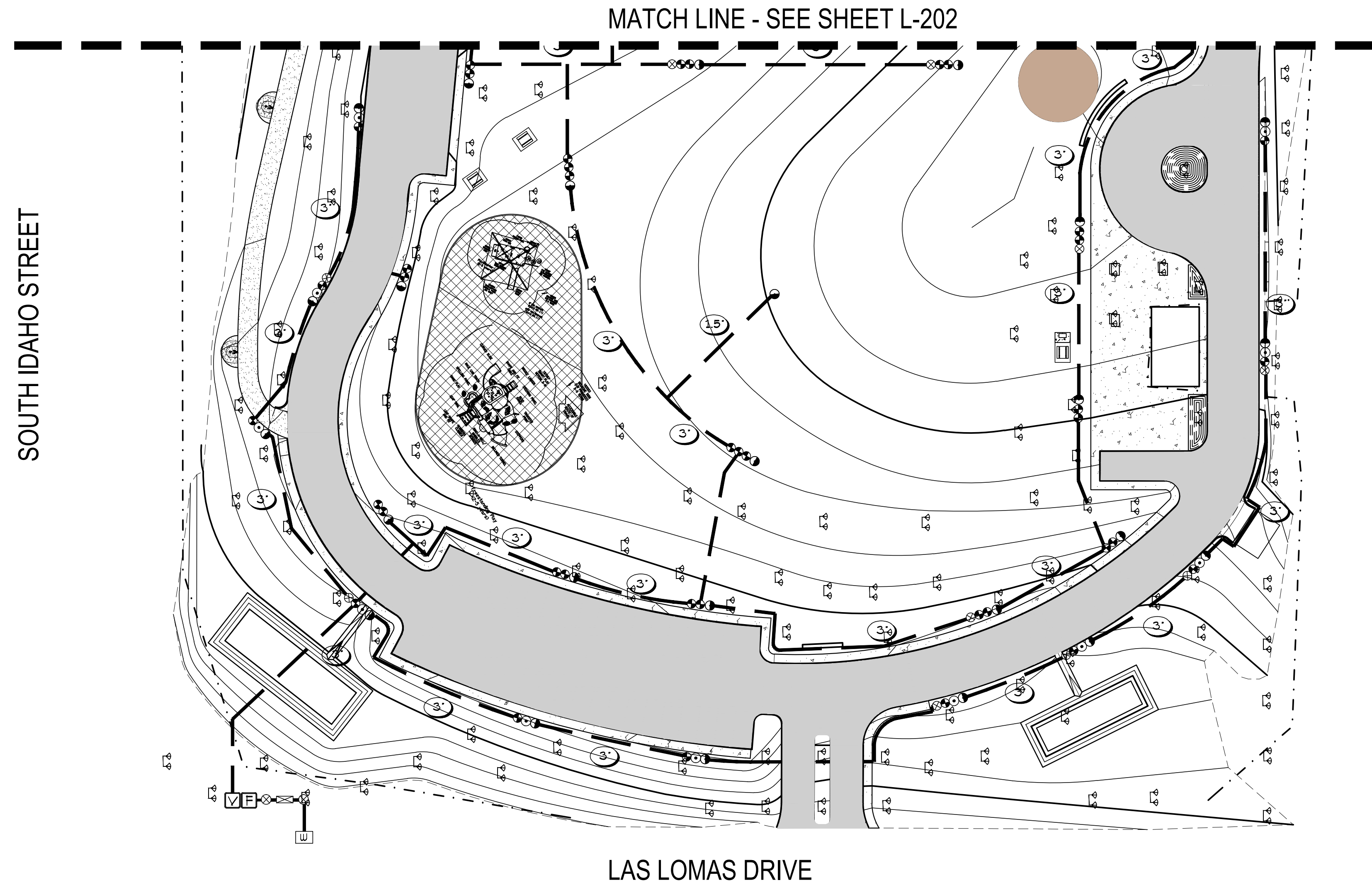
SYMBOL	MFGR.	MODEL	NOZZLE	P.S.I.	G.P.M.	RADIUS	
⊙	RAINBIRD	RUS	B-C-1402	DEEP WELL	5/10	50	NA

**XF SERIES DRIPLINE**

SYMBOL	MFGR.	MODEL	G.P.H.	SPACING	COIL SPACING	
⊙	RAINBIRD	DRIF	XF5-04-12-100	0.9	12'	250'

RAINBIRD XF5-04-12-100  
 LANDSCAPE DRIPLINE WITH COPPER SHIELD, 0.9 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. INSTALL PER MANUFACTURE RECOMMENDATIONS.

**NOTE:**  
 THE IRRIGATION FOR THIS PROJECT IS DESIGNED TO COMPLY WITH THE CITY/DBA WATER EFFICIENT LANDSCAPE ORDINANCE AND WITH THE GUIDELINES FOR IMPLEMENTATION OF THE WATER EFFICIENT LANDSCAPE ORDINANCE. TROLLER MAYER HAS COMPLIED WITH THE CRITERIA OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN. THE USE OF SPRAY HEADS, BUBBLERS AND ROOT WATERING SYSTEM IN DEEP WELL WITH LOW PRECIPITATION RATE, AND NEW SMART CONTROLLER INCLUDING ET/WEATHER-BASED IRRIGATION CONTROLLER



**Troller Mayer Associates, Inc**  
 Landscape Architecture Planning Urban Design  
 1403 Kenneth Road, Suite B  
 Glendale, California 91201-1421  
 Ph: (818)956-8101 Fx: (818) 956-0120  
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NO.	REVISION DESCRIPTION	BY:

**TETRA TECH**  
 21700 Copley Drive, Suite 200  
 Diamond Bar, CA 91765  
 TEL 909.860.7777 FAX 909.860.8017



**LA HABRA LANDFILL**  
**VISTA GRANDE PARK**  
**IRRIGATION PLAN**

DESIGNED BY: TMA  
 DRAWN BY: TMA  
 CHECKED BY: JM  
 APPROVED BY: RM

DATE: 01-25-2020  
 DATE: 01-25-2020  
 DATE: 01-25-2020

SCALE: AS SHOWN

**L-201** SHEET  
 3 OF 21

PROGRESS 50% CD SUBMITTAL (NOT FOR CONSTRUCTION)

WEST LAMBERT ROAD

SOUTH IDAHO STREET

MAIN LINE AND RELATED EQUIPMENT

- RAINBIRD REMOTE CONTROL VALVE EPB-CP SERIES (1" 2" AND SUPERIOR 950FRS REMOTE CONTROL VALVE (2.5") SIZE PER PLAN
- DRIP REMOTE CONTROL VALVE, RAINBIRD XGZ-100-FRB-COM
- RAINBIRD #33-DLRC QUICK COUPLER VALVE IN BOX
- SPEARS 2000 SERIES TRUE UNION BALL VALVE, LINE SIZE
- NEW BACKFLOW PREVENTER FEBCO 880V-4" WAYE STAINER T8A-4" INSIDE STRONG BOX BEBC-40CR ENCLOSURE. INSTALL PER LOCAL CODE LOCATION IS APPROXIMATE.
- NEW IRRIGATION CONTROLLER CALSENSE 'A' C83-2U-S/C83-GR /GR-STUBBY/COM 5YR/C5-2U-25(TBD)/C5-2U-POC(2)/RMBX/RM12BB
- NEW IMPERIAL COACH SWITCH ASSEMBLY ICA18-TS2-31/5P
- NEW 4" SEPARATE IRRIGATION WATER METER LOCATION IS APPROXIMATE AT THE PRESENT TIME. FINAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE OWNER REPRESENTATIVE.
- CALSENSE FLOW METER RMBX INSERTION-STYLE FLOW METER FOR 3" AND LARGER PIPE. SCREWS INTO 2" NPT PIPE SADDLE. MASTER VALVE SUPERIOR 3000 (NORMALLY CLOSED)
- CALSENSE FLOW METER FM-12BB
- MASTER VALVE RAINBIRD 200-FEB
- DENOTES MAIN LINE PIPE SIZE
- DENOTES SLEEVE PIPE SIZE
- SLEEVE PIPING, SCHEDULE 40 PVC PIPE SIZE PER PLAN, DEPTH AS NECESSARY
- NEW IRRIGATION SYSTEM MAIN PVC SCH 40 (2-1/2" & SMALLER), PVC CL35 (3" TO 4"), 4 PVC CL200 (6") AT 24" COVER - SIZE PER PLAN
- SPRINKLER LATERAL PIPING, SCHEDULE 40 PVC PIPE, SIZE PER PLAN, 12" COVER
- ALL PIPING UNDER PAVING SHALL BE SCHEDULE 40 PVC PIPE DENOTES PIPE SIZE
- VALVE SIZE
- STATION #
- G.P.M.
- TYPICAL VALVE DESIGNATOR

LARGE POP-UP TURF ROTORS

SYMBOL	MFG.	MODEL	NOZZLE	P.S.I.	G.P.M.	RADIUS	ARC
⊙	RAINBIRD	FALCON F4-PC-55	10	30	9.1	53'	ADJUSTABLE
⊙	RAINBIRD	FALCON F4-PC-55	12	30	11.0	55'	ADJUSTABLE

INTERMEDIATE TURF ROTORS (RAINBIRD 5000 SERIES # 25 P.S.I.)

SYMBOL	MFG.	MODEL	NOZZLE	P.S.I.	G.P.M.	RADIUS	ARC
⊙	RAINBIRD	5004-PC-5AM	MFR-35 (BEIGE)	25	1.40	32'	QUARTER
⊙	RAINBIRD	5004-PC-5AM	MFR-35 (BEIGE)	25	1.77	32'	THIRD
⊙	RAINBIRD	5004-PC-5AM	MFR-35 (BEIGE)	25	2.75	32'	HALF
⊙	RAINBIRD	5004-PC-5AM	MFR-35 (BEIGE)	25	5.36	32'	FULL (ADJUSTABLE)

POP-UP TURF SPRAY HEADS

SYMBOL	MFG.	MODEL	NOZZLE	P.S.I.	G.P.M.	RADIUS	ARC
⊙	RAINBIRD	1804 5AM PR5	18VAN	30	5.32	18'	TO 360'
⊙	RAINBIRD	1804 5AM PR5	18VAN	30	2.66	18'	TO 180'
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⊙	RAINBIRD	1804 5AM PR5	18F	30	3.70	15'	360'
⊙	RAINBIRD	1804 5AM PR5	18H	30	1.85	15'	180'
⊙	RAINBIRD	1804 5AM PR5	18T	30	1.23	15'	180'
⊙	RAINBIRD	1804 5AM PR5	18Q	30	.93	15'	90'
⊙	RAINBIRD	1804 5AM PR5	18VAN	30	1.85	15'	TO 180'
⊙	RAINBIRD	1804 5AM PR5	18VAN	30	.93	15'	TO 90'
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⊙	RAINBIRD	1804 5AM PR5	12VAN	30	.65	12'	TO 90'
⊙	RAINBIRD	1804 5AM PR5	10F	30	1.57	10'	360'
⊙	RAINBIRD	1804 5AM PR5	10H	30	.79	10'	180'
⊙	RAINBIRD	1804 5AM PR5	10Q	30	.39	10'	90'
⊙	RAINBIRD	1804 5AM PR5	8H	30	.52	8'	180'
⊙	RAINBIRD	1804 5AM PR5	8Q	30	.26	8'	90'
⊙	RAINBIRD	1804 5AM PR5	5H	30	.20	5'	180'
⊙	RAINBIRD	1804 5AM PR5	5Q	30	.10	5'	90'

ROOT WATERING SYSTEM

SYMBOL	MFG.	MODEL	NOZZLE	P.S.I.	G.P.M.	RADIUS	
⊙	RAINBIRD	RUB	B-C-1402	DEEP WELL	15/10	50'	NA

XF SERIES DRIPLINE

SYMBOL	MFG.	MODEL	G.P.M.	SPACING	COIL SPACING	
⊙	RAINBIRD	DRIP	XF5-09-12-100	0.9	12'	250'

RAIN BIRD XPS-09-12 (12) LANDSCAPE DRIPLINE WITH COPPER SHIELD .03 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. INSTALL PER MANUFACTURE RECOMMENDATIONS.

NOTE: THE IRRIGATION FOR THIS PROJECT IS DESIGNED TO COMPLY WITH THE CITY/D&A WATER EFFICIENT LANDSCAPE ORDINANCE AND WITH THE GUIDELINES FOR IMPLEMENTATION OF THE WATER EFFICIENT LANDSCAPE ORDINANCE. TROLLER MAYER HAS COMPLIED WITH THE CRITERIA OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN. THE USE OF SPRAY HEADS, BUBBLERS, AND ROOT WATERING SYSTEM IN DEEP WELL WITH LOW PRECIPITATION RATE, AND NEW SMART CONTROLLER INCLUDING ET/WEATHER-BASED IRRIGATION CONTROLLER.

CALSENSE TWO WIRE NOTES:  
3/4" SCOTCH CAST 3510G-N CONNECTORS  
MAX DISTANCE OF 100' BETWEEN STATION DECODER AND VALVE, OR 10' BETWEEN POC DECODER AND MASTER VALVE AND FLOW METER(S).  
SPECIFY NUMBER 1 OF DECODERS NEEDED. POC DECODER NEEDED FOR EACH MASTER VALVE AND FLOW METER. MAXIMUM OF 10 STATION DECODERS AND 10 OTHER TYPE DECODERS, I.E. POC DECODER(S).

TWO WIRE CABLE:  
PLEASE SPECIFY PAIGE CABLE P-1354-D OR HUNTER REGENCY CABLE IN CONDUIT. MAXIMUM TOTAL OF ALL RUNS IS 1000 FEET. AT LEAST 125' CONDUIT RECOMMENDED.

GROUNDING REQUIREMENTS:  
AT CONTROLLER, FIRST AND LAST DECODER AND EVERY 300 FEET OR LONGER AT A DECODER ONLY WITH ONE 5/8-INCH X 8-FOOT, COPPER CLAD GROUNDING ROD.  
#6 AWG SOLID COPPER WIRE FROM THE GROUNDING ROD TO THE FIELD COPPER (WHITE WIRES IN THE BLACK HARNESS) OF THE CONTROLLER / OR BUILT IN GREEN GROUNDING WIRE OF DECODER.

SCH 40 PVC SLEEVING CHART

SLEEVE SIZE	NO. OF WIRES	PIPE SIZE
1 1/4"	1-4 WIRES	1/2"
1 1/2"	5-10 WIRES	3/4"
2"	11-20 WIRES	1"
2 1/2"	21-30 WIRES	1 1/4"

EVAPOTRANSPIRATION (ET<sub>o</sub>) TABLE:

ET <sub>o</sub> VALUES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL ET <sub>o</sub>
	2.2	2.1	3.1	4.1	5.5	5.8	6.2	5.9	5.0	3.9	2.6	1.9	5.21

WATER EFFICIENT WORK SHEET

PROJECT NAME: The Vista Grande Park Renovation Project  
PROJECT LOCATION: La Habra Landfill  
TOTAL LANDSCAPE AREA: 464,023 sq. ft.

Maximum Applied Water Allowance (MAWA)

MAWA = (ET<sub>o</sub>) (0.62) [(0.7 x LA) + (0.3 x SLA)]

MAWA - Maximum Applied Water Allowance  
ET<sub>o</sub> - Reference Evapo.  
0.62 - Conversion factor (to gallons per square foot)  
0.7 - ET Adjustment Factor (ETAF)  
LA - Landscaped Area includes Special Landscape Area  
0.3 - Additional ET Adjustment Factor for Special Landscape Area (1.0 - 0.7 = 0.3)  
SLA - Portion of Landscape Area identified as Special Landscape Area - see Definitions (square feet)

Applicant to fill in boxes below.

50.1	ET <sub>o</sub> (Reference Evapotranspiration from Appendix A (inches per year)	464,023	Landscaped Area including Special Landscape Area (square feet)	222,167	Portion of Landscape Area identified as Special Landscape Area (square feet)
MAWA for LA	50.1 x 0.55 x 464,023	Conversion	0.62	=	7,927,415
MAWA for SLA	50.1 x 0.3 x 222,167	Conversion	0.62	=	2,070,285
Total MAWA					9,997,701 (gallons per year)

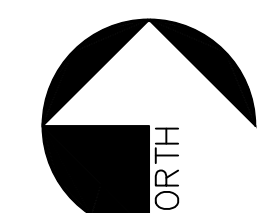
Estimated Total Water Use (ETWU)

ETWU = (ET<sub>o</sub>) (0.62) [(PF x HA) / IE + SLA]

ETWU - Estimated  
ET<sub>o</sub> - Reference Evapo.  
0.62 - Conversion factor (to gallons per square foot)  
PF - Plant Factor from WUCOLS (see Definitions)  
HA - Hydrozone Area - planting area associated to high, moderate, low and very low water uses areas (square feet)  
IE - Irrigation Efficiency - see Chart (minimum 0.7)  
SLA - Portion of Landscape Area identified as Special Landscape Area - see Definitions (square feet)

ETWU arrived from Hydrozone Table below = 8,718,762 gallons per year

HYDROZONE TABLE	plant water use type	plant factor (PF) (over table)	hydrozone area (HA) (square ft)	PF x HA (square ft)	% of landscape area (LA)	irrigation efficiency (IE)	hydrozone ETWU
1) Drip	low water	0.2	235,758	47,151	51%	0.85	1,723,071
2) Bubblers	mod. water	0.4	8,100	2,440	1%	0.80	94,739
							Subtotal ETWU
3) Rotor	SLA	0.2	222,167	44,433	48%	0.75	6,900,951
	TOTAL		464,023		100%		8,718,762



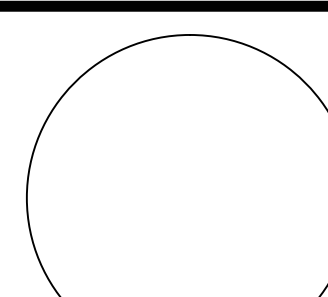
0 40 80 120  
SCALE: 1" = 40'

MATCH LINE - SEE SHEET L-201

Troller Mayer Associates, Inc  
Landscape Architecture Planning Urban Design  
1403 Kenneth Road, Suite B  
Glendale, California 91201-1421  
Ph: (818) 956-8101 Fx: (818) 956-0120  
E-mail: rmayer@trollermayer.com

NO.	REVISION DESCRIPTION	BY:

**TE TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



LA HABRA LANDFILL  
VISTA GRANDE PARK  
**IRRIGATION PLAN**  
DESIGNED BY: TMA  
DRAWN BY: TMA  
CHECKED BY: JM  
APPROVED BY: RM  
DATE: 01-25-2020  
SCALE: AS SHOWN  
DATE:  
L-202 SHEET 4 OF 21

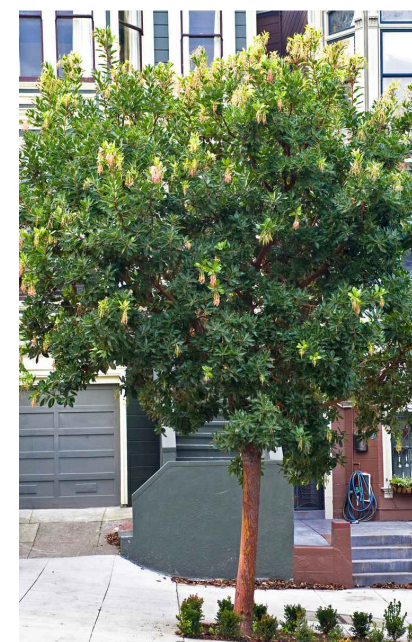
PROGRESS 50% CD SUBMITAL (NOT FOR CONSTRUCTION)



Quercus virginiana



Pistacia Chinensis



Arbutus Marina



Platnus Racemosa



Koelreuteria bipinnata



Schinus molle



Ulmus parvifolia 'True Green'

**TREE LEGEND**

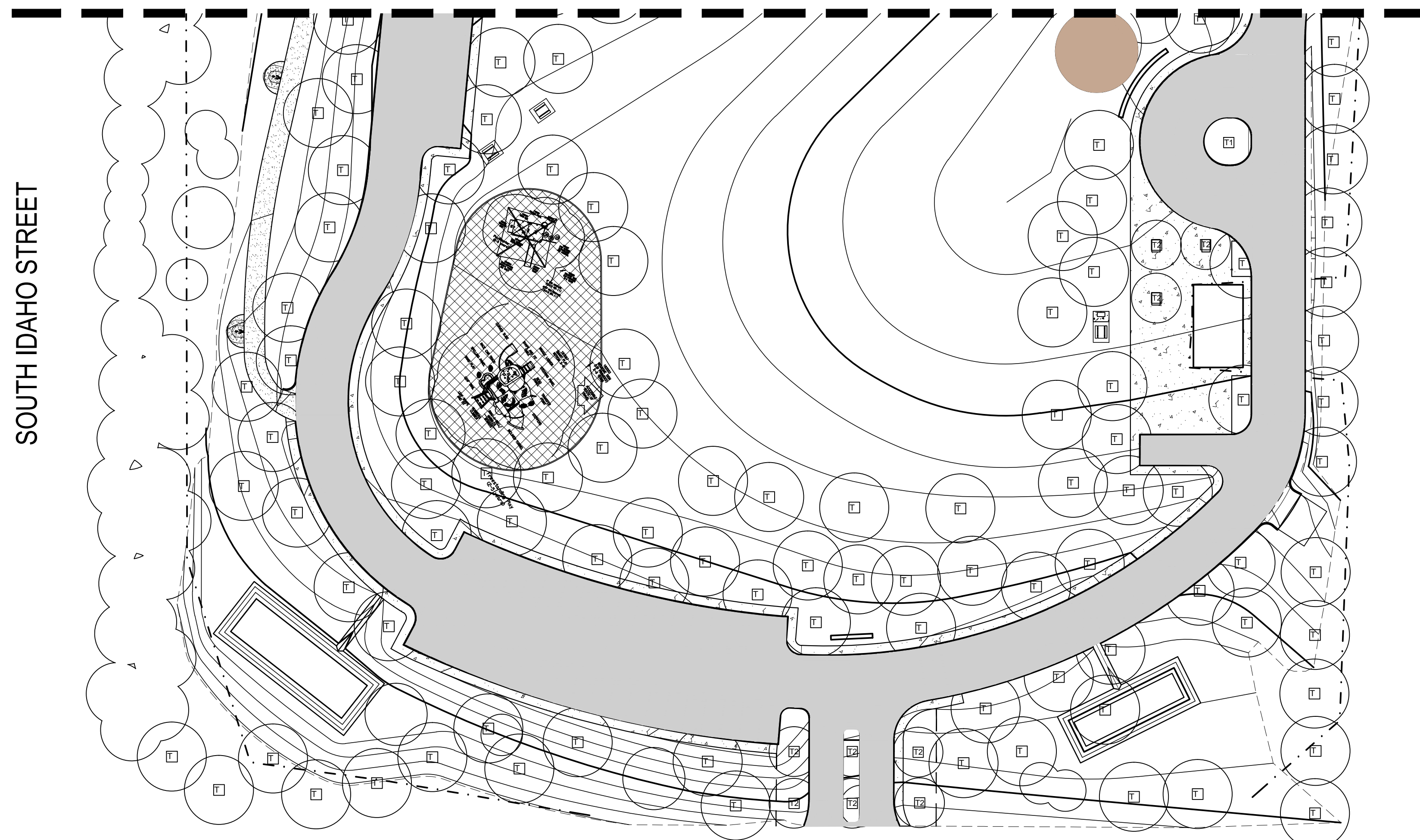
Symbol	Genus Species Name	Common Name	Box/Container Size	Plant Factor
T1	Quercus virginiana	Southern Live Oak	72" Box STD	moderate
T2	Pistacia Chinensis	Chinese Pistache	48" Box STD	moderate
T3	Arbutus Marina	Marina Strawberry Tree	24" Box STD	low
T4	Platnus Racemosa	California Sycamore	24" Box MULTI	low
T5	Koelreuteria bipinnata	Chinese Flame Tree	24" Box STD	moderate
T6	Schinus molle	California Pepper Tree	24" Box STD	moderate
T7	Ulmus parvifolia 'True Green'	True Green Chinese Elm	24" Box STD	moderate

**EXISTING TREE LEGEND**

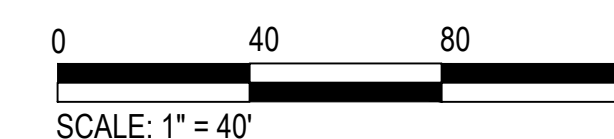
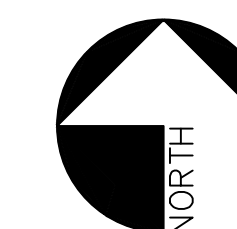
Symbol	Note
○	Existing tree to remain and be protected in place
○	Existing tree to be removed

REFER TO SHEET L-4.3 FOR PLANTING DETAILS

MATCH LINE - SEE SHEET L-302



LAS LOMAS DRIVE

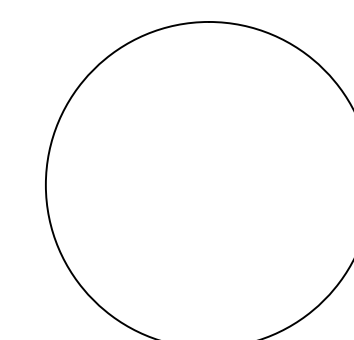


PROGRESS 50% CD SUBMITTAL (NOT FOR CONSTRUCTION)

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 1403 Kenneth Road, Suite B  
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 Ph: (818) 956-8101 Fx: (818) 956-0120  
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 TEL 909.860.7777 FAX 909.860.8017



LA HABRA LANDFILL			
VISTA GRANDE PARK			
<b>TREE PLANTING PLAN</b>			
DESIGNED BY : TMA	DATE : 01-25-2020	SCALE: AS SHOWN	<b>L-301</b> SHEET 5 OF 21
DRAWN BY : TMA	DATE :		
CHECKED BY : JM	DATE :		
APPROVED BY : RM	DATE :		

WEST LAMBERT ROAD

SOUTH IDAHO STREET

TREE LEGEND


Symbol	Genus Species Name	Common Name	Box/Container Size	Plant Factor
T1	Quercus virginiana	Southern Live Oak	72" Box STD	moderate
T2	Pistacia Chinesis	Chinese Pistache	48" Box STD	moderate
T3	Arbutus Marina	Marina Strawberry Tree	24" Box STD	low
T4	Platanus Racemosa	California Sycamore	24" Box MULTI	low
T5	Koelreuteria bipinnata	Chinese Flame Tree	24" Box STD	moderate
T6	Schinus molle	California Pepper Tree	24" Box STD	moderate
T7	Ulmus parvifolia 'True Greer'	True Green Chinese Elm	24" Box STD	moderate

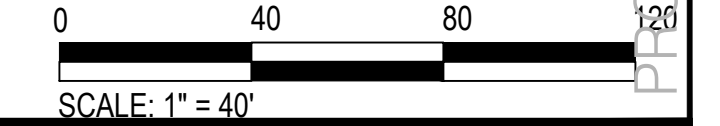
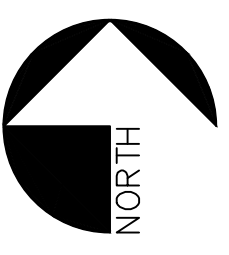
EXISTING TREE LEGEND

Symbol	Note
○	Existing tree to remain and be protected in place
○	Existing tree to be removed

REFER TO SHEET L-4.3 FOR PLANTING DETAILS

PLANTING NOTES

- Before the demolition or start of construction, the Contractor shall contact the Landscape Architect, Civil Engineer and Owner's Representative to schedule a pre-construction meeting. During this meeting, all site conditions and Construction Documents shall be reviewed. All existing trees shall be preserved. Failure to call for said meeting implies acceptance by the Contractor of trees to be preserved in their existing condition as well as any liability for removing trees that are designated "Protect in Place".
  - Landscape Contractor shall procure and reserve plant material at start of contract to ensure availability and quality.
  - Before the demolition and removal of ANY landscape material refer to the Civil Engineer 'Demolition Plan' and Tree Protection Notes specifications on Sheet L-5.1
  - Plants are shown diagrammatically on plan therefore plant spacing in Planting Notes takes precedence to plants shown on the plan. Contractor is to calculate quantity of plants called for and install all that are shown on plan at the spacing in the legend.
  - Nursery images of all trees, shrubs and groundcover shall be submitted as part of the Landscape Submittal as required by the Landscape Specifications on Sheet L5.3 and L5.4. Images shall be submitted to the Landscape Architect for approval prior to planting see Landscape Specifications on Sheet L5.3 and L5.4. Images shall include height of plant and width. Submittal must be submitted (3) three weeks prior to any landscape or irrigation work commences.
  - All Landscape Planting, Irrigation and Paving damaged by contractor shall be repaired and approved by Owner's Representative before 100% completion of construction at no additional cost to the Owners.
  - Finish grade shall be 2" below all walks/curbs for areas to receive shrub and/or groundcover and mulch.
  - In order to achieve a smooth, even finish grade, additional soil may need to be added to the planting areas. Refer to the Landscape Specifications on Sheet L5.3 and L5.4 for additional information on imported soil.
  - Finish grade shall be 1" below all walks/curbs for areas to receive turf.
  - All trenches, holes, and divots from construction work in areas of existing turf/shrub areas to remain shall be patch/repared and re-seeded/re-mulched. Infill soil shall be installed to all trenches, holes and divots as to re-establish uniform finish grade. Soil shall be compacted to 85% prior to re-seeding/re-mulching. See Landscape Specifications 02900 for further info.
  - Finish grade shall slope 2% away from structures and towards swales (when applicable)
  - Forest Floor Mulch shall be a 3" thick layer and shall be spread beneath and in between all new and existing shrubs, groundcover and trees within the scope of work so as to leave soil completely covered with mulch. Samples of the mulch shall be a part of the Landscape Submittal to the Landscape Architect. Mulch type shall be per the landscape specifications.
  - Water Percolation -- Contractor to dig a test planting pit, 3'-0" square and 3'-0" deep; fill pit with water up to 2'-0" from bottom and mark location and check level in 24 hours. If standing water is present, Contractor to contact Owner's Representative and Landscape Architect and it will be determined if a sump pump must be implemented.
  - Conduct fifteen (15) soil tests at the locations marked on Sheet L-3.1 through L-3.4 with the symbol: . These tests are to determine recommended amounts of fertilizer and harmful substances, if any. See specifications for soil testing, quantities of testing at the marked locations and information of existing and imported soil.
  - During soil preparation amend with Gypsum (Agricultural Calcium Sulfate Ca SO4) per amount recommended by the soil test results. See Landscape Specifications on Sheet L5.3 and L5.4 for further information.
  - All new and existing planting areas shall be free of construction debris, rocks, form boards, weeds etc. See Landscape Specifications on Sheet L5.3 and L5.4.
  - Complete Roundup Herbicide weed abatement (weed and kill process for 8 weeks) in areas of re-grading and turf removal per Specifications 02900, Art.3.03B. Verify in the field, with Owner Representative, all areas to receive Roundup before its application. Do not use Roundup in areas where existing landscaping and turf are to remain.
  - All new trees to be installed adjacent to any hardscape areas (street curbs, driveways, and sidewalks) shall include linear root barriers. The root barrier should extend 5' on either side of the tree trunk for a total length of 10'. Install barriers from Deep Root, (800) 766-8835. See Detail for typical installation.
- Specification follows:
- For (36" box, 24" box, & 15 gal.) trees planted within the limit of: Curbs and Driveways use MODEL#UB18-2
  - For (36" box, 24" box, & 15 gal.) trees planted within the limit of: Sidewalks and concrete drainage swales use MODEL#LB12-2
- Install Jute Mesh for slopes greater than 4:1 slope.
  - Tilling: All planting areas in the park that area 90% soil compaction or above shall be cross-tipped 12" on center to a maximum depth of 10" below grade and follow with rototillage to reduce soil clods to a maximum diameter of 1-inch in the top 8 inches. Remove stones and foreign matter over one half (1/2) inch in diameter from upper 8" of soil. Planting areas too small for power equipment shall be hand dug and tilled to a depth of 10" below grade. (All tilling shall be completed prior to adding conditioners and fertilizers, unless occupied by existing trees that remain in place). Any part of the irrigation system, including heads, damaged during tilling shall be replaced with new equipment.



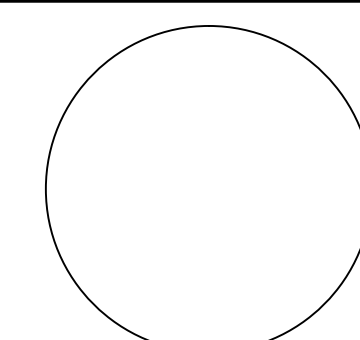
MATCH LINE - SEE SHEET L-302

Troller Mayer Associates, Inc  
Landscape Architecture Planning Urban Design

1403 Kenneth Road, Suite B  
Glendale, California 91201-1421  
Ph:(818)956-8101 Fx:(818) 956-0120  
E-mail: rmayer@trollermayer.com

NO.	REVISION DESCRIPTION	BY:

 **TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



LA HABRA LANDFILL  
VISTA GRANDE PARK  
**TREE PLANTING PLAN**

DESIGNED BY : TMA	DATE : 01-25-2020	SCALE: AS SHOWN
DRAWN BY : TMA	DATE :	
CHECKED BY : JM	DATE :	
APPROVED BY : RM	DATE :	

**L-302** SHEET  
6 OF 21

PROGRESS 50% CD SUBMITTAL (NOT FOR CONSTRUCTION)



### SHRUB, GROUNDCOVER, AND VINE LEGEND

Symbol	Genus Species Name	Common Name	Container Size	Spacing	Plant Factor	Setbacks
(GB)	Buxus m. japonica 'Green Beauty'	Green Beauty Boxwood	5 Gallon	24" O.C.	low	
(NG)	Lantana 'New Gold'	New Gold Lantana	5 Gallon	36" O.C.	low	30" from hardscape or curb
(NH)	Nandina domestica 'Nana'	Dwarf Heavenly Bamboo	5 Gallon	30" O.C.	low	
(PK)	Pittosporum crassifolium 'Nana'	Dwarf Karo	5 Gallon	30" O.C.	moderate	
(LB)	Dianella caerulea 'Little Becca'	Little Becca Flax Lily	1 Gallon	18" O.C.	moderate	
(SR)	Chondropetalum tectorum	Small Cape Rush	5 Gallon	30" O.C.	low	
(ML)	Westringia 'Morning Light'	Morning Light Coast Rosemary	5 Gallon	30" O.C.	low	
(GN)	Grevillea noellii	Noel's Grevillea	5 Gallon	30" O.C.	low	
(PP)	Baccharis pilularis 'Pigeon Point'	Dwarf Coyote brush	1 Gallon	42" O.C.	low	42" from hardscape or curb
(WR)	Westringia fruticosa 'Wynyabbie Gem'	Coast Rosemary	5 Gallon	36" O.C.	low	
(CB)	Baccharis 'Centennial'	Centennial Coyote Brush	5 Gallon	36" O.C.	low	30" from hardscape or curb
(PR)	Rosmarinus o. 'Prostratus'	Trailing Rosemary	1 Gallon	36" O.C.	low	36" from hardscape or curb
(CD)	Cotoneaster dammeri 'Coral Beauty'	Coral Beauty Cotoneaster	1 Gallon	36" O.C.	low	36" from hardscape or curb
(EB)	Festuca glauca 'Elijah Blue'	Elijah Blue Fescue	1 Gallon	12" O.C.	moderate	
(IR)	Rosa spp. 'Iceberg'	White Iceberg Shrub Rose	5 Gallon	48" O.C.	moderate	
(CM)	Coprosma kirkii	Creeping Mirror Plant	1 Gallon	36" O.C.	moderate	
(AG)	Agave salmiana 'Green Giant'	Giant Agave	15 Gallon	spaced as shown	moderate	
(MR)	Muhlenbergia rigens	Deer Grass	5 Gallon	36" O.C.	low	

### NATURAL SCREENING AREA

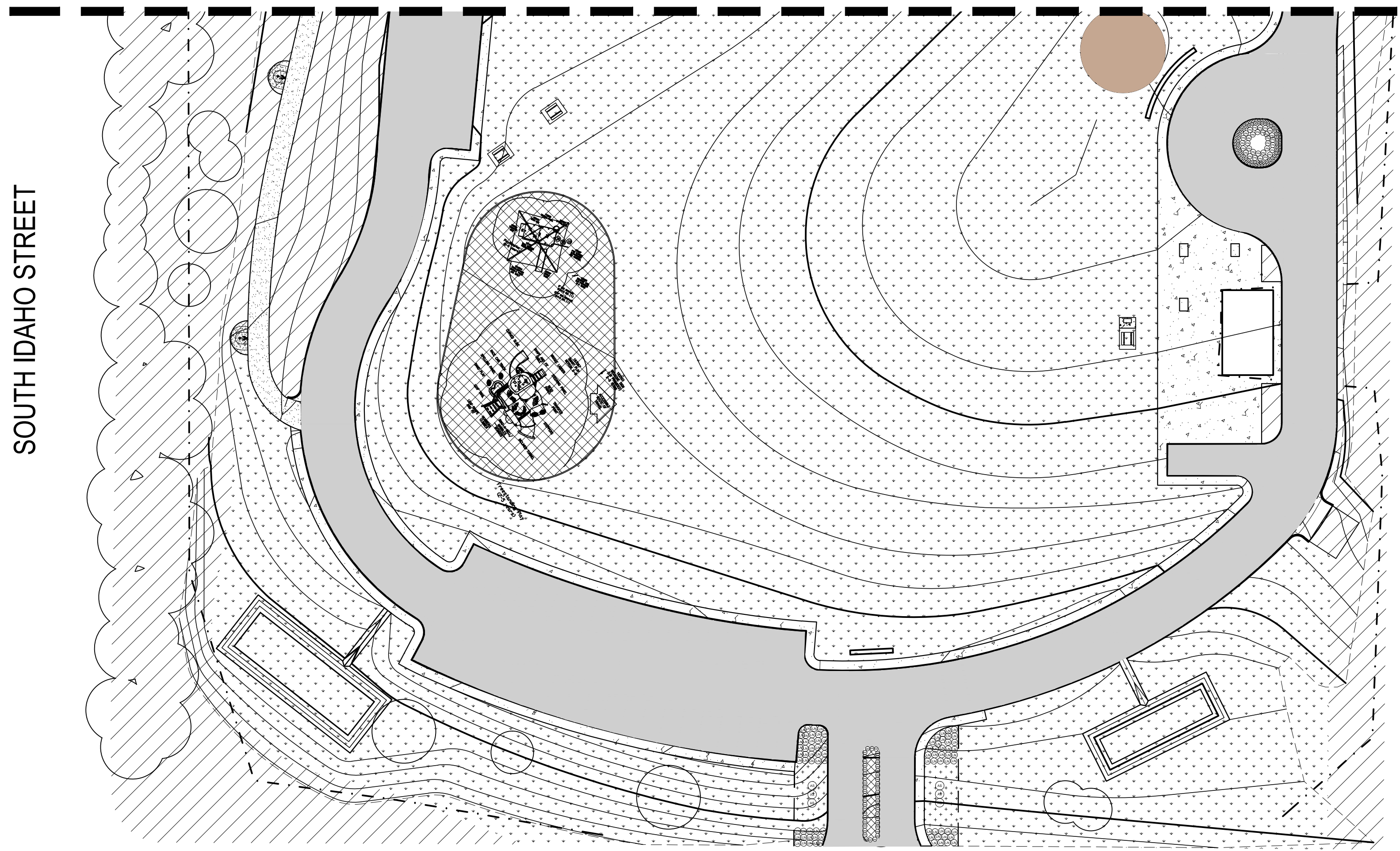
Symbol	Genus Species Name	Common Name	Container Size	Spacing	Plant Factor	Setback
(FT)	Fremontodendron californicum 'Ken Taylor'	Flannelbush	5 Gallon	spaced as shown	low	
(HA)	Heteromeles arbutifolia	Toyon	5 Gallon	spaced as shown	low	
(PC)	Prunus caroliniana 'Compacta'	Carolina Cherry Laurel	5 Gallon	spaced as shown	moderate	
(RC)	Rhamnus californica	California Coffeeberry	5 Gallon	spaced as shown	moderate	
(RO)	Rhus ovata	Sugar Bush	5 Gallon	spaced as shown	moderate	
(GS)	Galvezia speciosa	Island Snapdragon	5 Gallon	spaced as shown	moderate	
(VB)	Ribes viburnifolium	Catalina Perfume	5 Gallon	spaced as shown	low	
(AL)	Acacia redolens 'Low Boy'	Prostrate Acacia	1 Gallon	60" O.C.	low	60" from hardscape or curb

### TURF LEGEND

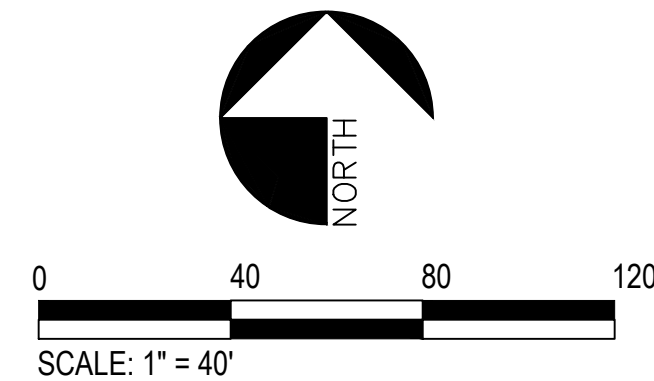
Symbol	Genus Species Name	Common Name	Method Installed
(K)	Pennisetum clandestinum	Kikuyu Grass	Contractor to install Hydrostolized Turf

Turf alternative #1 (pending owner approval): In lieu of Kikuyu, provide and install Hybrid Bermuda "Bandera" sod in the ballfield, including the outfield and turf area beyond the outfield up to the nearest mow strip or other paved perimeter of the turf area adjoining the ballfield. At all other remaining turf areas, provide and install West Coast fescue blend in sod type. Both Hybrid Bermuda "Bandera" sod and "West Coast" sod are to be purchased/provided from West Coast Turf. No alternatives will be accepted.

MATCH LINE - SEE SHEET L-304



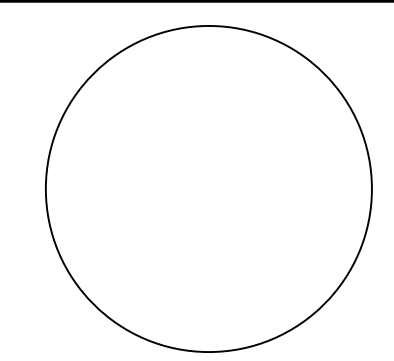
LAS LOMAS DRIVE



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LA HABRA LANDFILL			
VISTA GRANDE PARK			
SHRUB PLANTING PLAN			
DESIGNED BY :	TMA	DATE :	01-25-2020
DRAWN BY :	TMA	SCALE :	AS SHOWN
CHECKED BY :	JM	DATE :	
APPROVED BY :	RM	DATE :	
<b>L-303</b>			<b>SHEET</b>
<b>7</b>			<b>OF 21</b>

PROGRESS 50% CD SUBMITTAL (NOT FOR CONSTRUCTION)

WEST LAMBERT ROAD

SOUTH IDAHO STREET



MATCH LINE - SEE SHEET L-303

SHRUB, GROUND COVER, AND VINE LEGEND

Symbol	Genus Species Name	Common Name	Container Size	Spacing	Plant Factor	Setbacks
(GB)	Buxus m. japonica 'Green Beauty'	Green Beauty Boxwood	5 Gallon	24" O.C.	low	
(LG)	Lantana 'New Gold'	New Gold Lantana	5 Gallon	36" O.C.	low	30' from hardscape or curb
(NB)	Nandina doernstiana 'Nana'	Dwarf Heavenly Bamboo	5 Gallon	30" O.C.	low	
(DK)	Pittosporum crassifolium 'Nana'	Dwarf Karo	5 Gallon	30" O.C.	moderate	
(LB)	Dianella caerulea 'Little Becca'	Little Becca Flax Lily	1 Gallon	18" O.C.	moderate	
(CR)	Chondropetalum tectorum	Small Cape Rush	5 Gallon	30" O.C.	low	
(ML)	Westringia 'Morning Light'	Morning Light Coast Rosemary	5 Gallon	30" O.C.	low	
(GN)	Grevillea noellii	Noel's Grevillea	5 Gallon	30" O.C.	low	
(PC)	Baccharis pilularis 'Pigeon Point'	Dwarf Coyote brush	1 Gallon	42" O.C.	low	42" from hardscape or curb
(WR)	Westringia fruticosa 'Wryyabbie Gem'	Coast Rosemary	5 Gallon	36" O.C.	low	
(CB)	Baccharis 'Centennial'	Centennial Coyote Brush	5 Gallon	36" O.C.	low	30' from hardscape or curb
(RO)	Rosmarinus o. 'Prostratus'	Trailing Rosemary	1 Gallon	36" O.C.	low	36" from hardscape or curb
(CO)	Cotoneaster dammeri 'Coral Beauty'	Coral Beauty Cotoneaster	1 Gallon	36" O.C.	low	36" from hardscape or curb
(FE)	Festuca glauca 'Elijah Blue'	Elijah Blue Fescue	1 Gallon	12" O.C.	moderate	
(RS)	Rosa spp. 'Iceberg'	White Iceberg Shrub Rose	5 Gallon	48" O.C.	moderate	
(CP)	Coprosma kirilii	Creeping Mirror Plant	1 Gallon	36" O.C.	moderate	
(AG)	Agave salmiana 'Green Giant'	Giant Agave	15 Gallon	spaced as shown	moderate	
(MU)	Muhlenbergia rigens	Deer Grass	5 Gallon	36" O.C.	low	

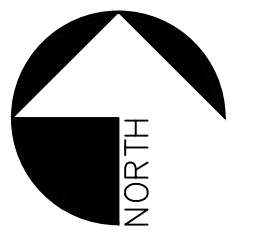
NATURAL SCREENING AREA

Symbol	Genus Species Name	Common Name	Container Size	Spacing	Plant Factor	Setback
(FR)	Fremontodendron californicum 'Ken Taylor'	Flannelbush	5 Gallon	spaced as shown	low	
(HA)	Heteromeles arbutifolia	Toyon	5 Gallon	spaced as shown	low	
(PC)	Prunus carolina 'Compacta'	Carolina Cherry Laurel	5 Gallon	spaced as shown	moderate	
(RC)	Rhamnus californica	California Coffeeberry	5 Gallon	spaced as shown	moderate	
(RO)	Rhus ovata	Sugar Bush	5 Gallon	spaced as shown	moderate	
(CS)	Galvezia speciosa	Island Snapdragon	5 Gallon	spaced as shown	moderate	
(R)	Ribes viburnifolium	Catalina Perfume	5 Gallon	spaced as shown	low	
(AC)	Acacia redolens 'Low Boy'	Prostrate Acacia	1 Gallon	60" O.C.	low	60' from hardscape or curb

TURF LEGEND

Symbol	Genus Species Name	Common Name	Method Installed
(K)	Pennisetum clandestinum	Kikuyu Grass	Contractor to install Hydrostolized Turf

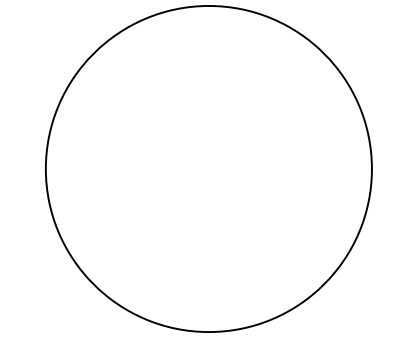
Turf alternative #1 (pending owner approval): In lieu of Kikuyu, provide and install Hybrid Bermuda "Bandera" sod in the ballfield, including the outfield and turf area beyond the outfield up to the nearest mow strip or other paved perimeter of the turf area adjoining the ballfield. At all other remaining turf areas, provide and install West Coast fescue blend in sod type. Both Hybrid Bermuda "Bandera" sod and "West Coast" sod are to be purchased/provided from West Coast Turf. No alternatives will be accepted.



Troller Mayer Associates, Inc  
 Landscape Architecture Planning Urban Design  
 1403 Kenneth Road, Suite B  
 Glendale, California 91201-1421  
 Ph:(818)956-8101 Fx:(818) 956-0120  
 E-mail: tmayer@trollermayer.com

NO.	REVISION DESCRIPTION	BY:

**TE TETRA TECH**  
 21700 Copley Drive, Suite 200  
 Diamond Bar, CA 91765  
 TEL 909.860.7777 FAX 909.860.8017

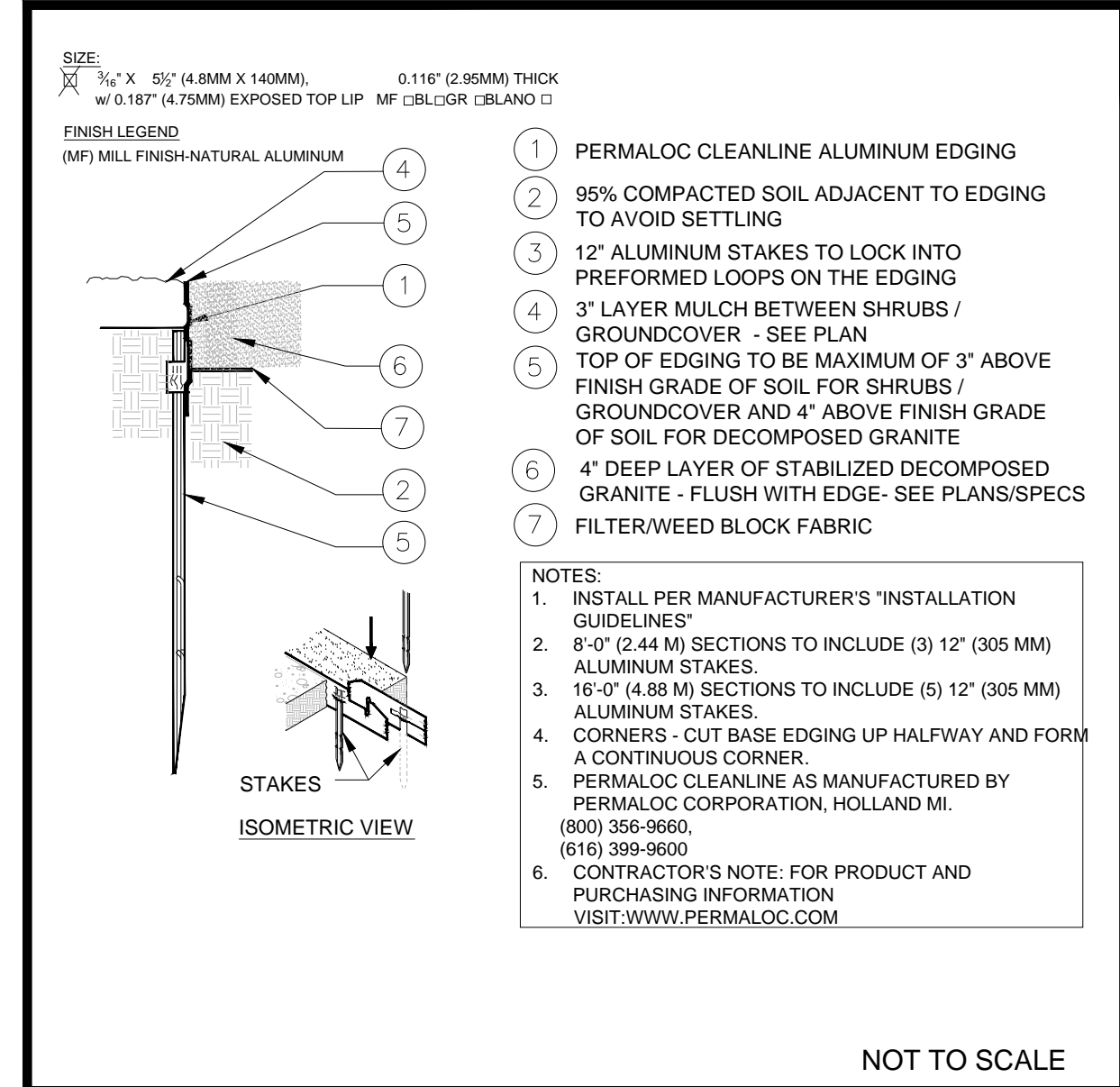


LA HABRA LANDFILL  
 VISTA GRANDE PARK  
**SHRUB PLANTING PLAN**

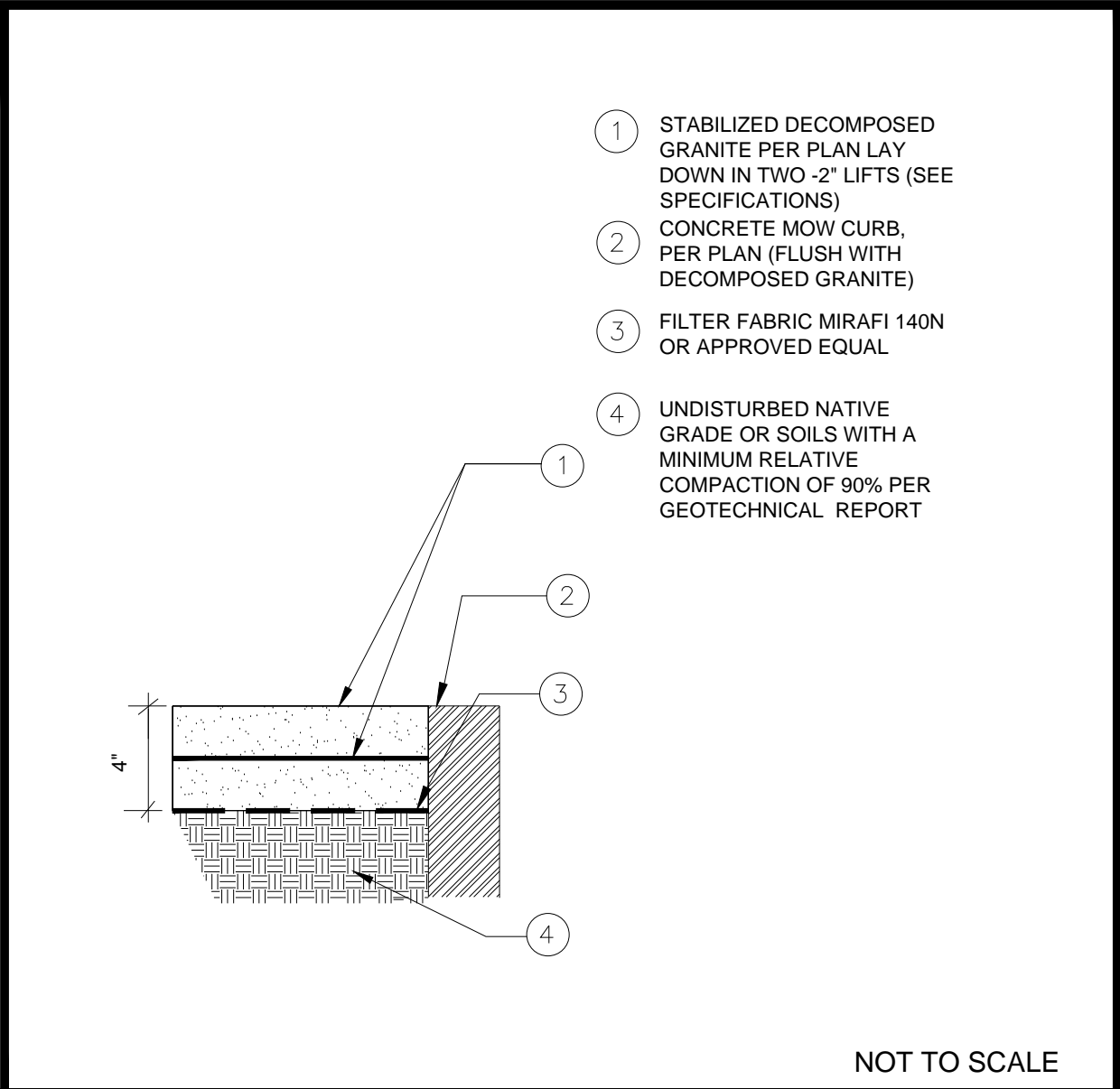
DESIGNED BY : TMA	DATE : 01-25-2020	SCALE: AS SHOWN
DRAWN BY : TMA	DATE :	
CHECKED BY : JM	DATE :	
APPROVED BY : RM	DATE :	

**L-304** SHEET 8 OF 21

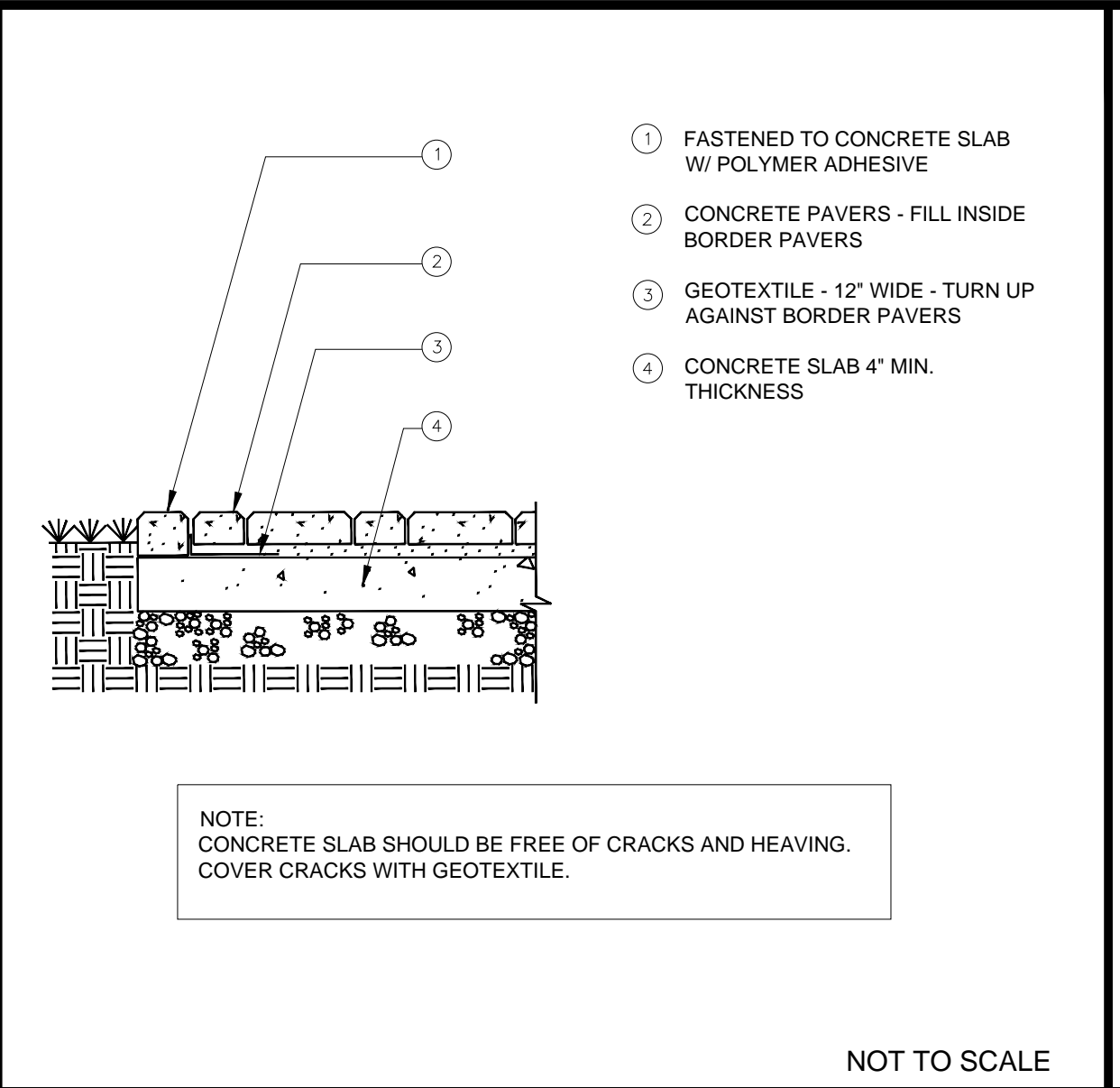
PROGRESS 50% CD SUBMITTAL (NOT FOR CONSTRUCTION)



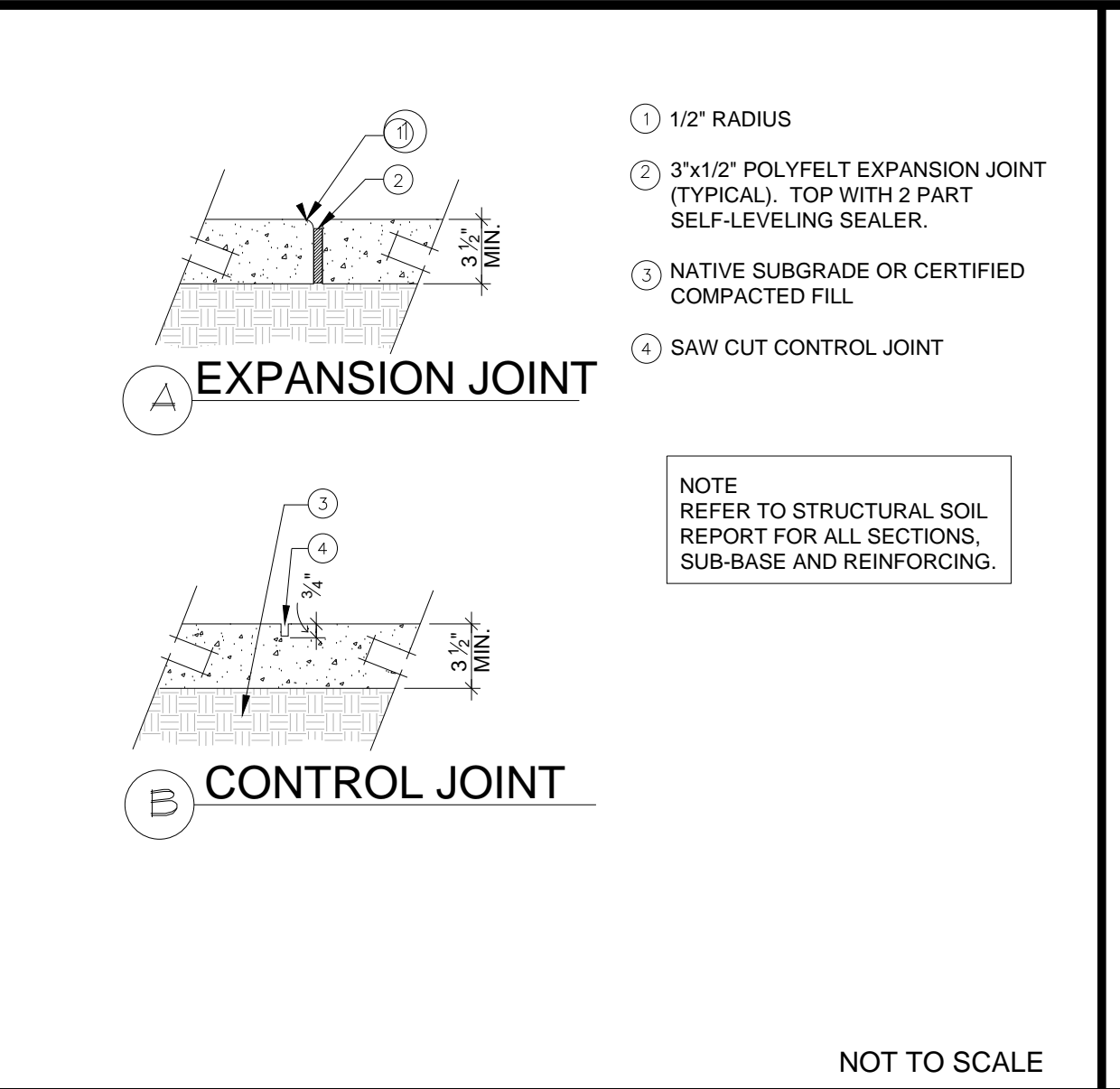
ALUMINUM EDGING 5



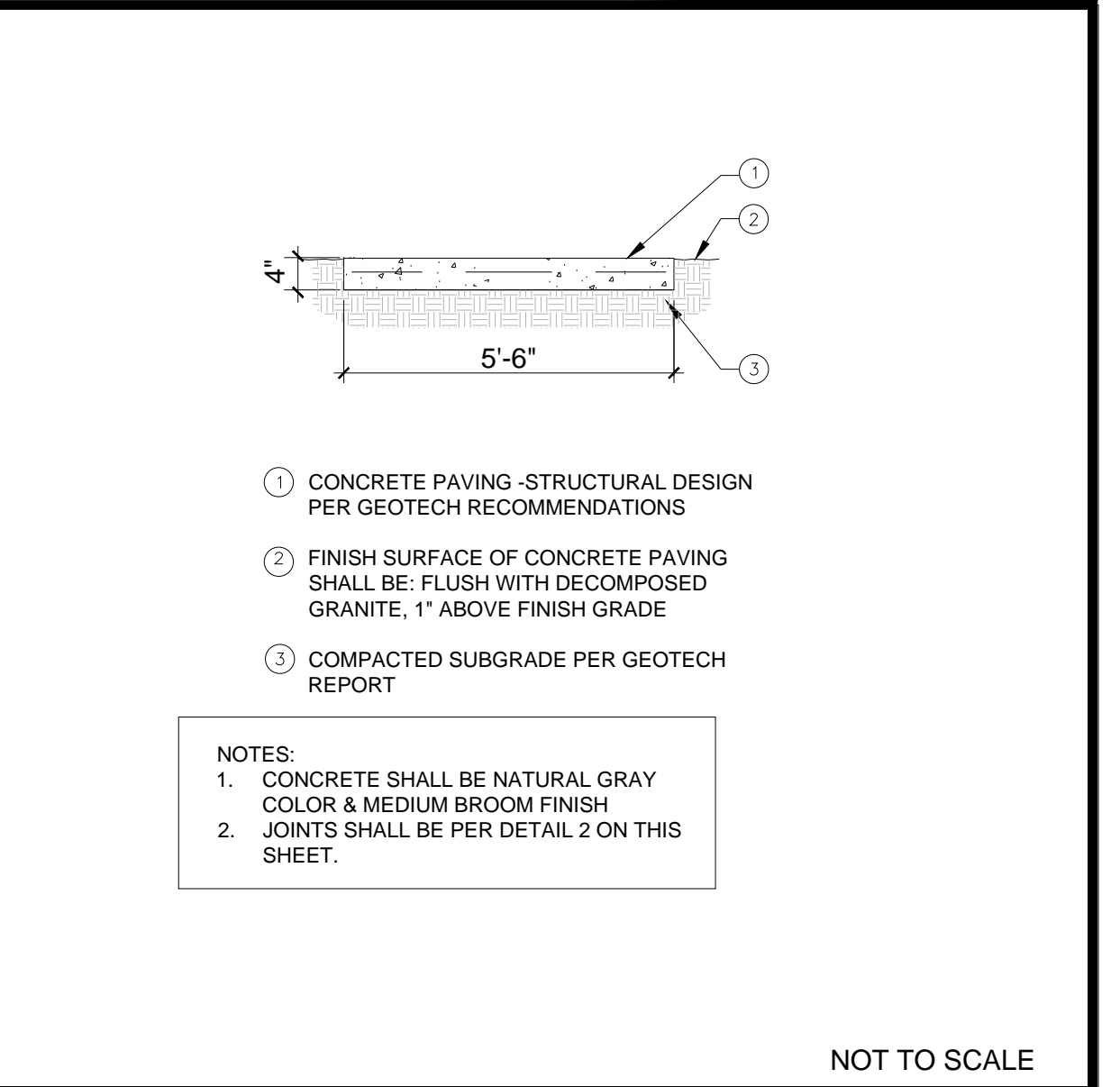
STABILIZED DECOMPOSED GRANITE 4



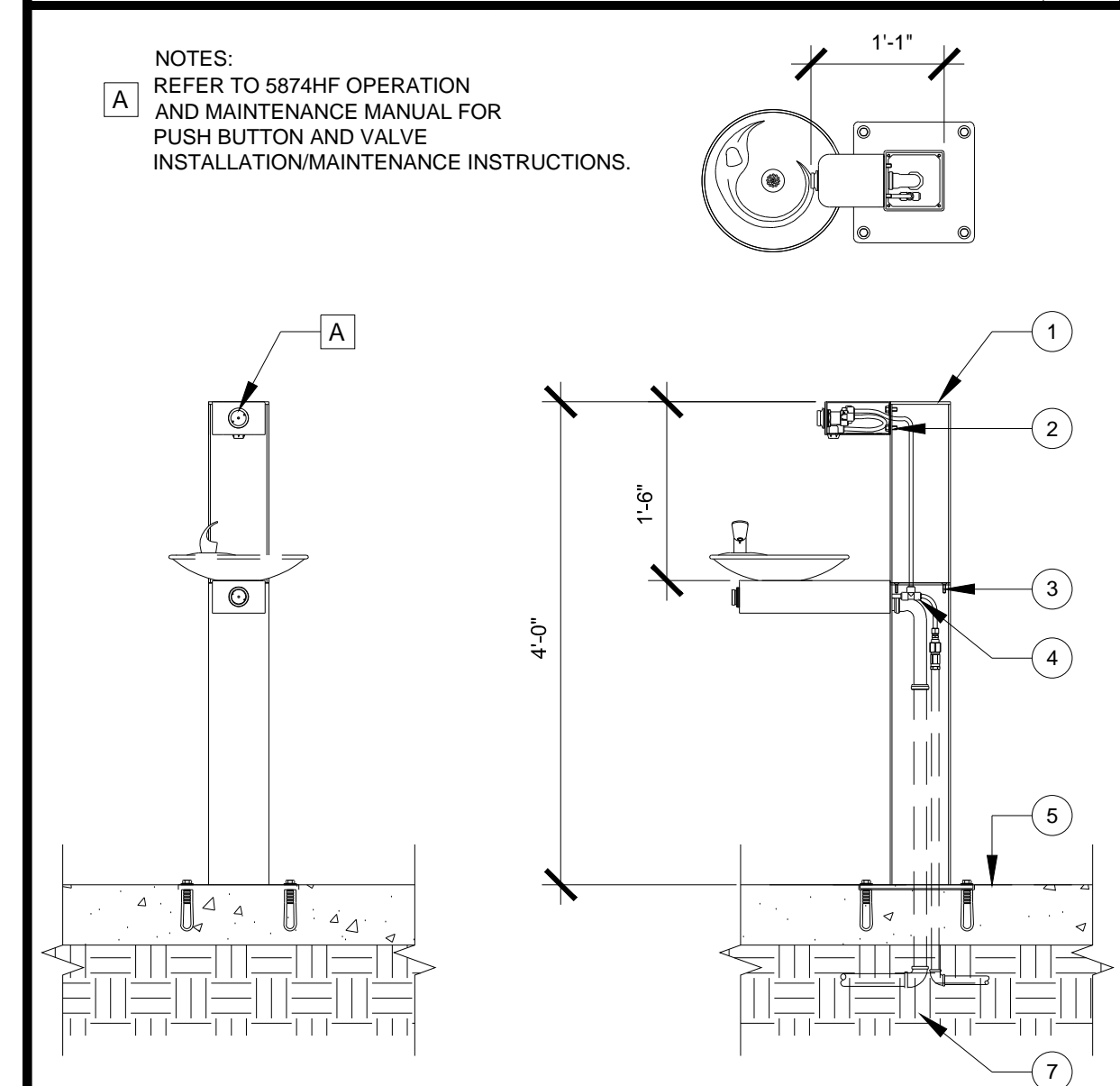
PRE CAST PAVERS 3



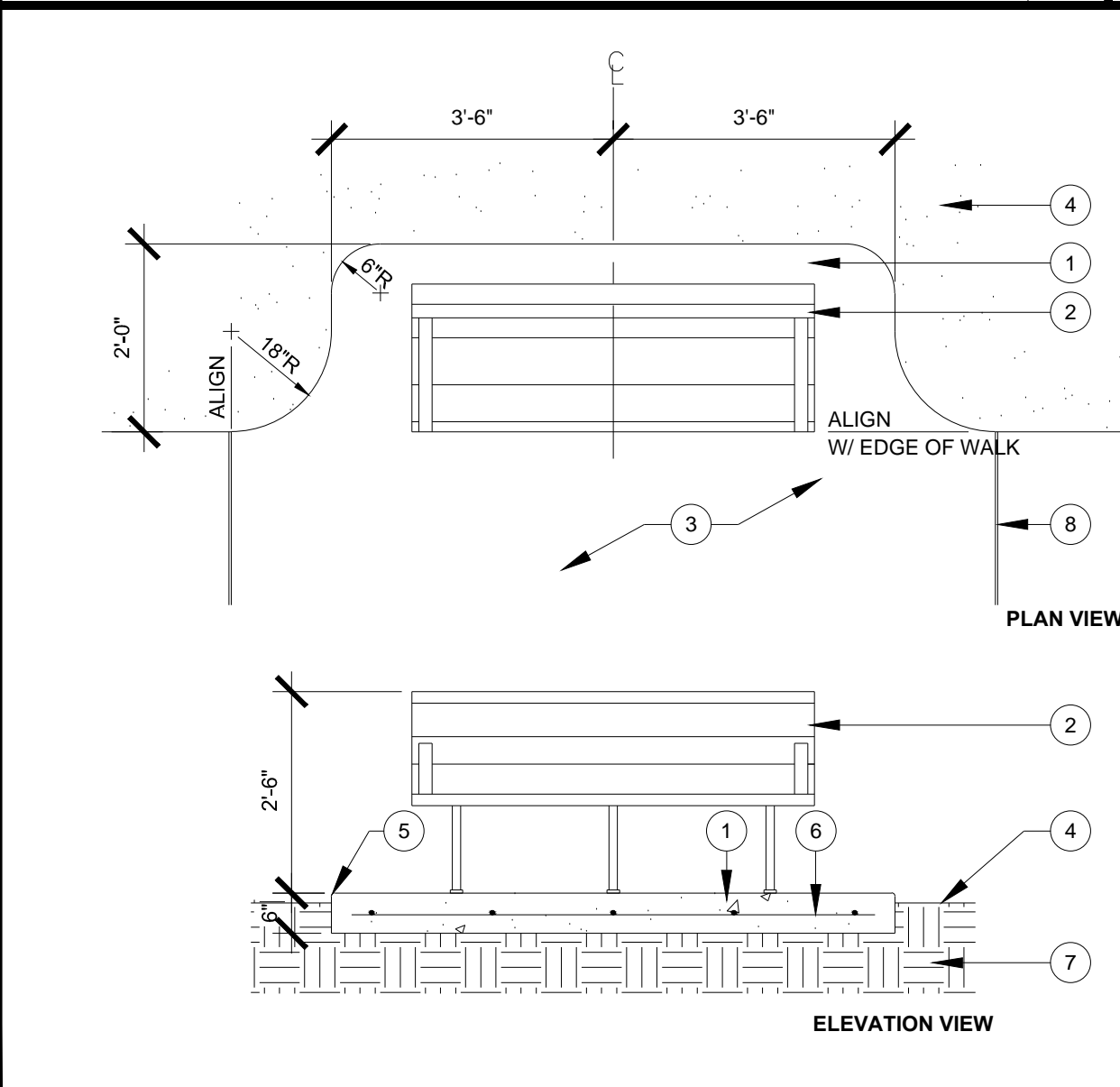
CONCRETE PAVING JOINTS 2



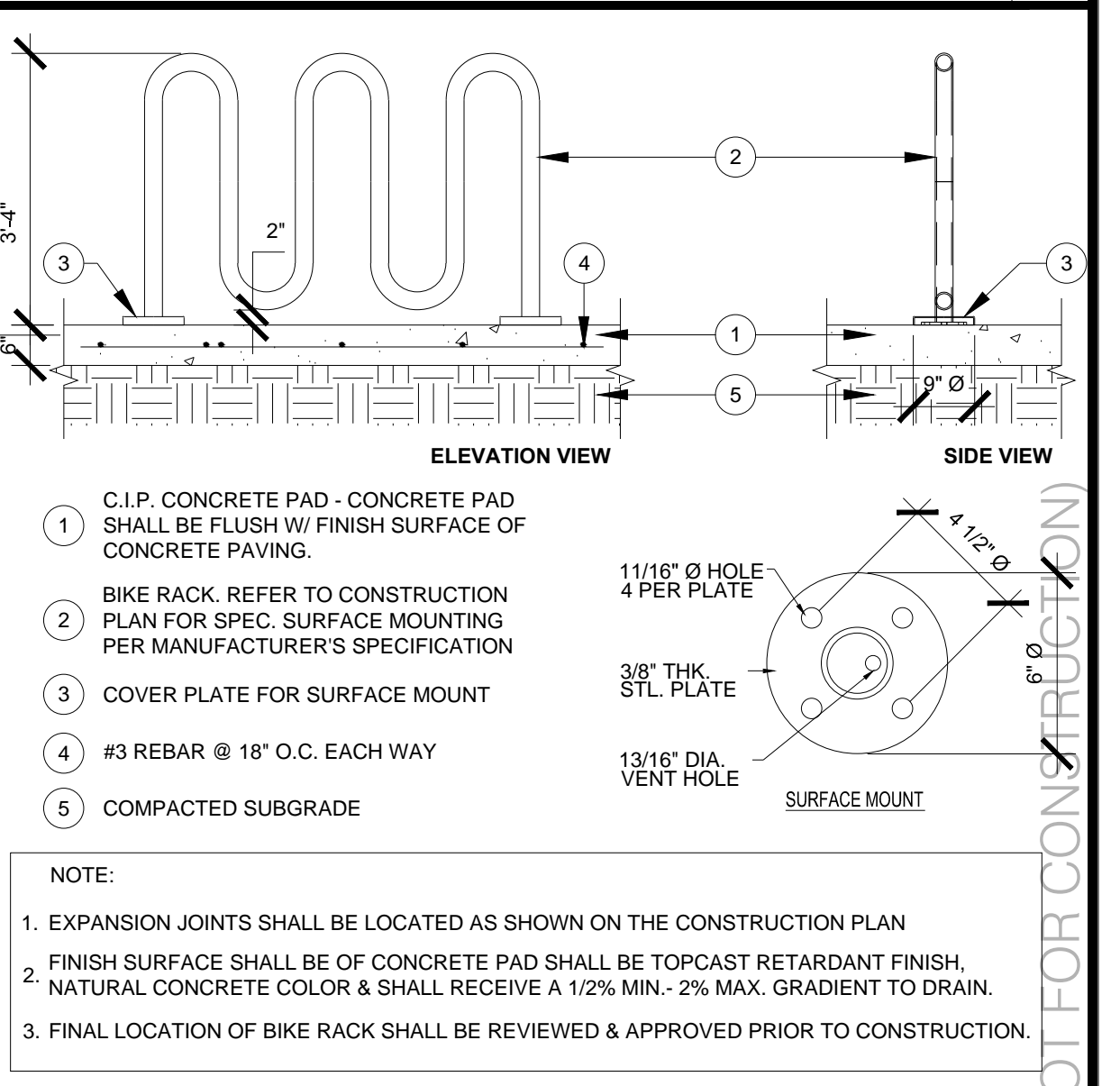
CONCRETE PAVING 1



DRINKING FOUNTAIN & WATER BOTTLE FILLER 8



BENCH W/ CONCRETE PAD 7



BIKE RACK W/ CONCRETE PAD 6

**Troller Mayer Associates, Inc**  
Landscape Architecture Planning Urban Design

1403 Kenneth Road, Suite B  
Glendale, California 91201-1421  
Ph: (818) 956-8101 Fx: (818) 956-0120  
E-mail: rmayer@trollermayer.com

NO.	REVISION DESCRIPTION	BY:

**TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017

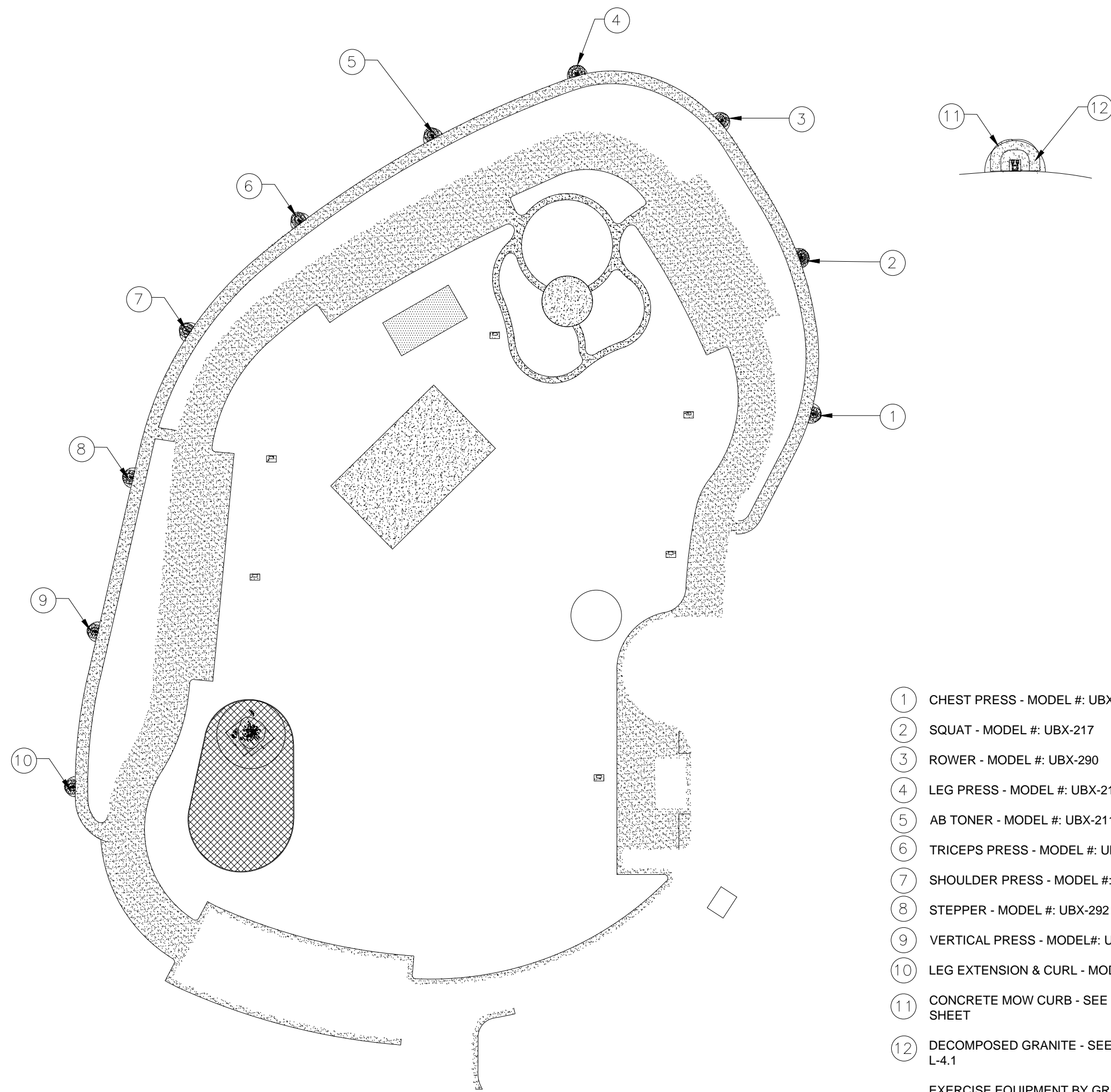
LA HABRA LANDFILL  
VISTA GRANDE PARK  
**CONSTRUCTION DETAILS**

DESIGNED BY: TMA	DATE: 01-25-2020	SCALE: AS SHOWN
DRAWN BY: TMA	DATE:	
CHECKED BY: JM	DATE:	
APPROVED BY: RM	DATE:	

L-401 SHEET 9 OF 20

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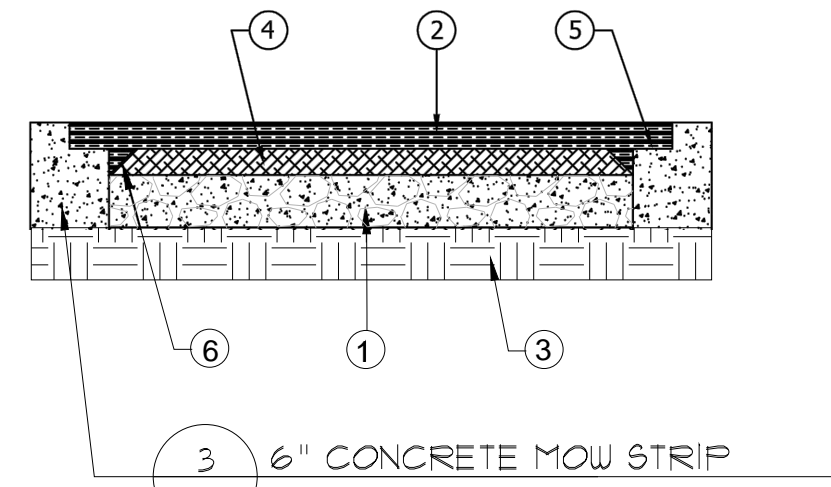
PROGRESS 50% CD SUBMITTAL NOT FOR CONSTRUCTION



- 1 CHEST PRESS - MODEL #: UBX-246
  - 2 SQUAT - MODEL #: UBX-217
  - 3 ROWER - MODEL #: UBX-290
  - 4 LEG PRESS - MODEL #: UBX-215
  - 5 AB TONER - MODEL #: UBX-211
  - 6 TRICEPS PRESS - MODEL #: UBX-244
  - 7 SHOULDER PRESS - MODEL #: UBX-248
  - 8 STEPPER - MODEL #: UBX-292
  - 9 VERTICAL PRESS - MODEL #: UBX-247
  - 10 LEG EXTENSION & CURL - MODEL #: UBX-298
  - 11 CONCRETE MOW CURB - SEE DETAIL #3 ON THIS SHEET
  - 12 DECOMPOSED GRANITE - SEE DETAIL #4 ON SHEET L-4.1
- EXERCISE EQUIPMENT BY GREENFIELDS - [HTTP://GFOUTDOORFITNESS.COM/](http://GFOUTDOORFITNESS.COM/)  
EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

NOT TO SCALE

EXERCISE STATION 4

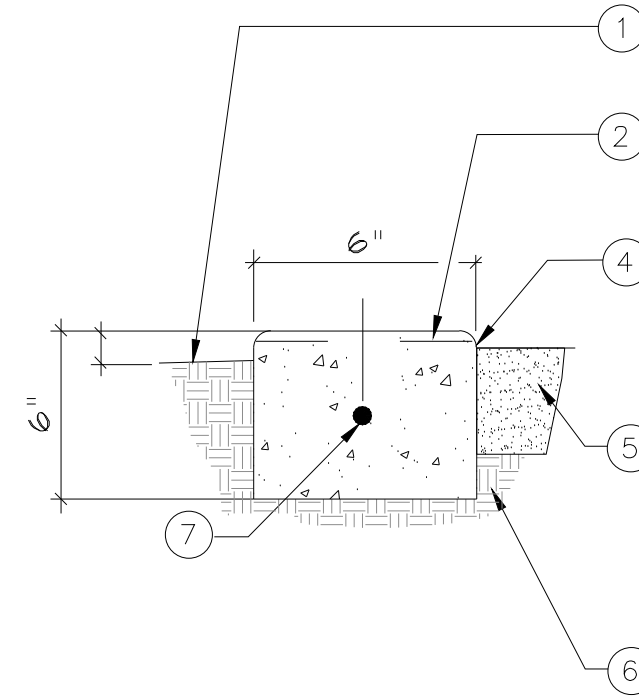


- KEYNOTES**
- 1 SUB-BASE OPTIONS PER ADA GUIDELINES: (1) COMPACTED AGGREGATE - 4" OF 3/4" MINUS IRREGULAR STONE WITH FINES COMPACTED TO 95% IN 2" WATERED LIFTS.
  - 2 WEAR COURSE - 1/2" INCH MINIMUM THICKNESS
  - 3 EXISTING SOLID COMPACTED DIRT
  - 4 SIR CUSHION LAYER (DEPTH VARIES BY CRITICAL FALL HEIGHT REQUIREMENTS AND PRODUCT SOLD)
  - 5 CONCRETE BORDERS WITH 1/2" DEEP, 2" WIDE INSTALLATION KEYWAY
  - 6 1-1/2" BEVEL



NOT TO SCALE

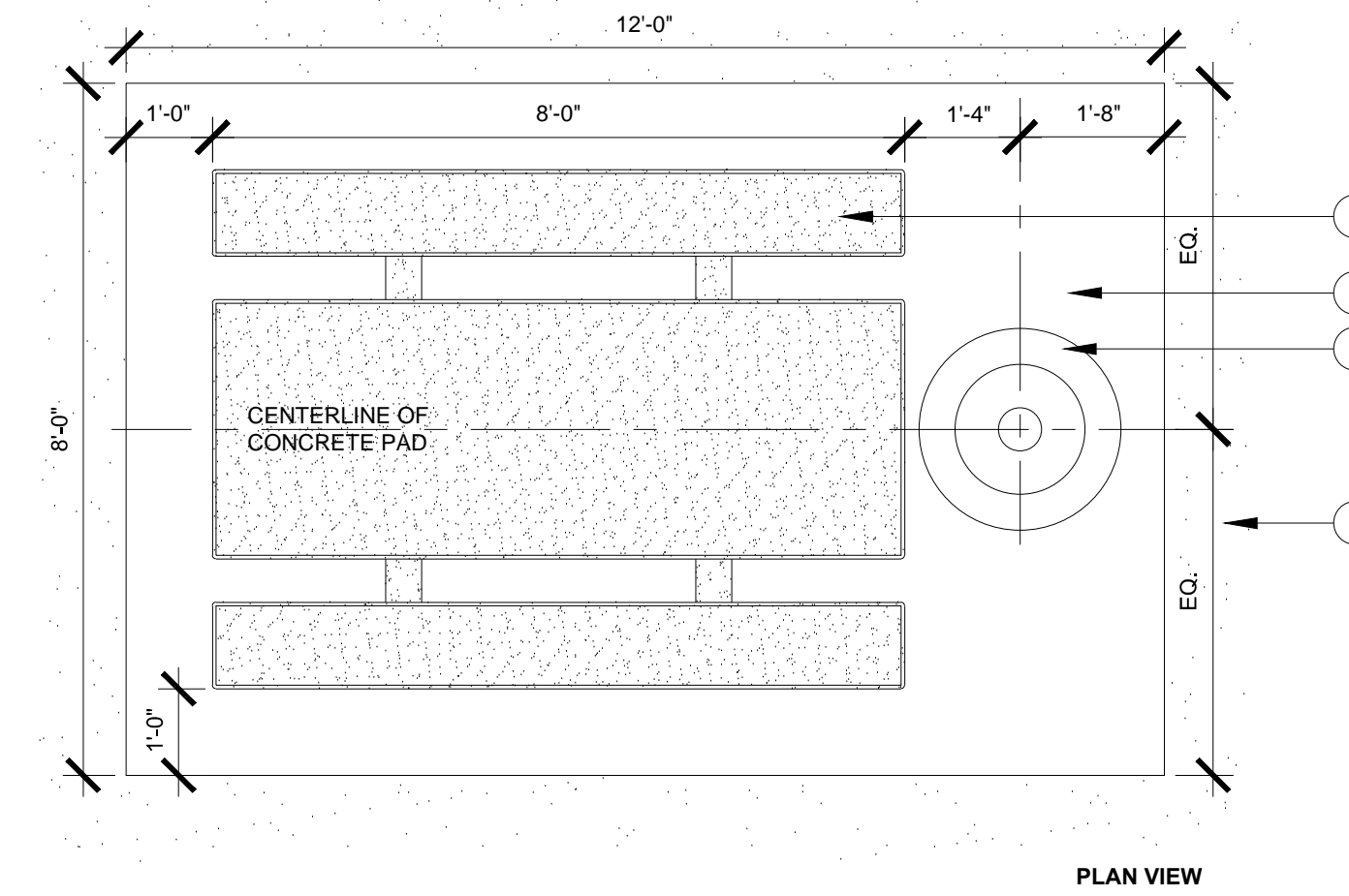
P.I.P. RUBBER SURFACE 2



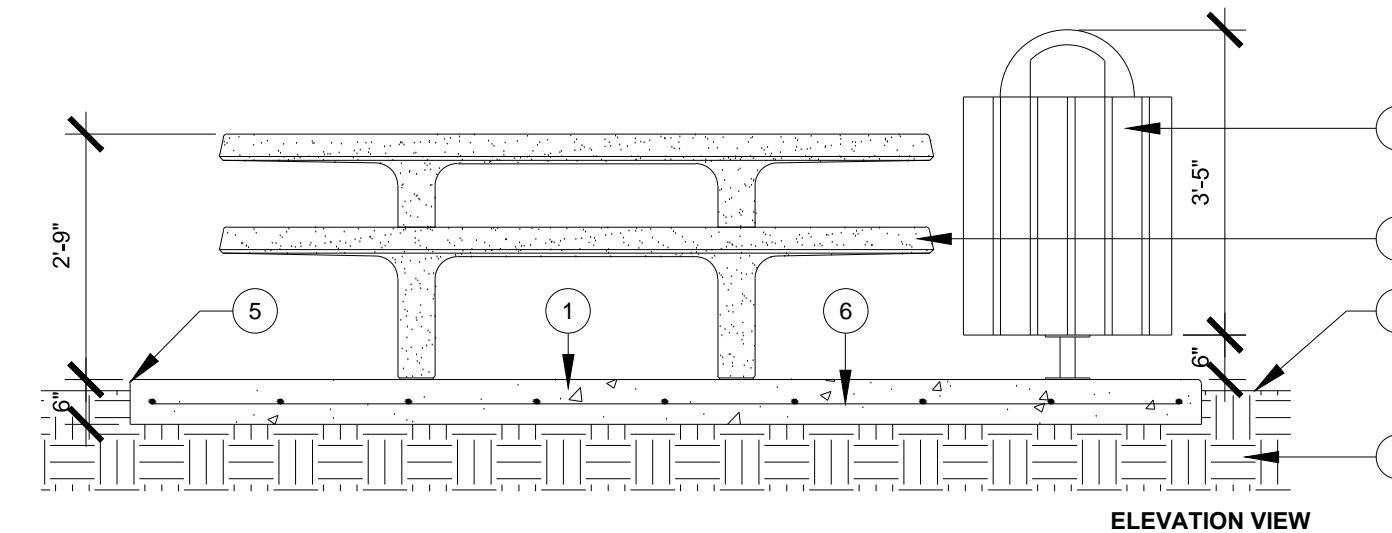
- 1 1" IN TURF AND 2" IN SHRUB / GROUND COVER AREA
- 2 CONSTRUCT 1/2" DEEP SCORE LINE ACROSS MOW STRIP AT 4' O.C.
- 4 NATURAL COLOR CONCRETE MOWSTRIP WITH MEDIUM BROOM FINISH & 1/2" RADIUS AT EXPOSED EDGES ONLY. PROVIDE SAWCUTS 8' O.C.
- 5 4" THICK STABILIZED D.G. SHALL BE FLUSH WITH FINISH SURFACE OF CONCRETE MOW STRIP. SEE DETAIL 4 ON THIS SHEET L-4.1 FOR MORE INFORMATION.
- 6 UNDISTURBED NATIVE GRADE OR SOILS BELOW CONCRETE FLATWORK WITH A MINIMUM RELATIVE COMPACTION OF 90% PER GEOTECHNICAL REPORT
- 7 #4 HORIZ. REBAR, CONTINUOUS, LOCATED IN CENTER

NOT TO SCALE

6" CONCRETE MOW STRIP 3



PLAN VIEW



ELEVATION VIEW

- 1 C.I.P. CONCRETE PAD - CONCRETE PAD SHALL BE FLUSH W/ FINISH SURFACE OF ADJACENT CONCRETE MOW STRIP AND DECOMPOSED GRANITE, WHERE OCCURS.
- 2 CONCRETE PICNIC TABLE, ALIGN W/ CENTERLINE OF CONCRETE PAD. REFER TO CONSTRUCTION PLAN FOR SPEC. MOUNTING PER MANUFACTURER'S SPECIFICATION
- 3 TRASH RECEPTACLE, ALIGN W/ CENTERLINE OF CONCRETE PAD. REFER TO CONSTRUCTION PLAN FOR SPEC. MOUNTING PER MANUFACTURER'S SPECIFICATION
- 4 ADJACENT PLANTING AREA, 1 1/2" BELOW FINISH SURFACE @ TURF AREAS AND 2" IN PLANTING AREAS
- 5 1/2" RADIUS TOOLED OUTER EDGE - TYPICAL
- 6 #3 REBAR @ 18" O.C. EACH WAY
- 7 COMPACTED SUBGRADE

- NOTE:**
- 1. EXPANSION JOINTS SHALL BE LOCATED AS SHOWN ON THE CONSTRUCTION PLAN
  - 2. FINISH SURFACE OF CONCRETE PAD SHALL BE TOPCAST RETARDANT FINISH. NATURAL CONCRETE COLOR & SHALL RECEIVE A 1/2% MIN. - 2% MAX. GRADIENT TO DRAIN.
  - 3. FINAL ORIENTATION OF TABLE & FINAL LOCATION OF TRASH RECEPTACLE SHALL BE REVIEWED & APPROVED PRIOR TO CONSTRUCTION.

NOT TO SCALE

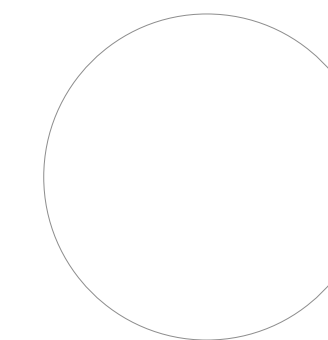
PICNIC TABLE W/ CONCRETE PAD 1

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**Troller Mayer Associates, Inc**  
Landscape Architecture Planning Urban Design  
1403 Kenneth Road, Suite B  
Glendale, California 91201-1421  
Ph: (818) 956-8101 Fx: (818) 956-0120  
E-mail: [rmayer@trollermayer.com](mailto:rmayer@trollermayer.com)

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**TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



LA HABRA LANDFILL VISTA GRANDE PARK CONSTRUCTION DETAILS			
DESIGNED BY :	TMA	DATE :	01-25-2020
DRAWN BY :	TMA	SCALE :	AS SHOWN
CHECKED BY :	JM	DATE :	
APPROVED BY :	RM	DATE :	
L-402			SHEET 10 OF 20

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**Greenfields Outdoor Fitness**  
Promoting Wellness & Fighting Obesity One Community at a Time!

### TWO-PERSON CROSS COUNTRY SKI

GR2005-1-29  
Equipped with **SafeStop**

**Strengthens:**  
• Strengthens leg muscles  
• Improves cardiovascular endurance  
• Helps recover some lost agility  
• Great social activity

**Target muscles:**  
Secondary muscles

**The Greenfields Advantage - this unit incorporates Safe-Stop technology for a workout that's smooth and hazard-free**

[VIEW THE VIDEO](#)

In order to honor our commitment to quality and safety, Greenfields Outdoor Fitness reserves the right to make changes and revise the design specifications without notice. © 2014 Greenfields Outdoor Fitness

**Greenfields Outdoor Fitness**  
Promoting Wellness & Fighting Obesity One Community at a Time!

### STAIR CLIMBER

GR2005-1-92

**Strengthens:**  
• Strengthens quadriceps, hamstrings, calves, glutes, abs and forearms  
• Great cardiovascular activity

**Target muscles:**  
Secondary muscles

**The Greenfields Advantage - this unit incorporates Safe-Stop technology for a workout that's smooth and hazard-free**

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### ADJUSTABLE AB TONER

UBA-211  
Equipped with **SafeStop**

**Strengthens:**  
• Abs  
• Lower back

**Target muscles:**  
Secondary muscles

**The Greenfields Advantage - this unit incorporates Safe-Stop technology for a workout that's smooth and hazard-free**

[VIEW THE VIDEO](#)

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### ADJUSTABLE LEG PRESS

UBX-215  
Equipped with **SafeStop**

**Strengthens:**  
• Abs  
• Glutes  
• Legs

**Target muscles:**  
Secondary muscles

**The Greenfields Advantage - this unit incorporates Safe-Stop technology for a workout that's smooth and hazard-free**

[VIEW THE VIDEO](#)

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### ADJUSTABLE SQUAT

UBX-217  
Equipped with **SafeStop**

**Strengthens:**  
• Glutes  
• Legs

**Target muscles:**  
Secondary muscles

**The Greenfields Advantage - this unit incorporates Safe-Stop technology for a workout that's smooth and hazard-free**

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### ADJUSTABLE CHEST PRESS

UBX-246  
Equipped with **SafeStop**

**Strengthens:**  
• Chest  
• Back  
• Arms (triceps, forearms)  
• Shoulders  
• Abs

**Target muscles:**  
Secondary muscles

**The Greenfields Advantage - this unit incorporates Safe-Stop technology for a workout that's smooth and hazard-free**

[VIEW THE VIDEO](#)

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### ADJUSTABLE SHOULDER PRESS

UBX-248  
Equipped with **SafeStop**

**Strengthens:**  
• Chest  
• Back  
• Shoulders  
• Arms (triceps)

**Target muscles:**  
Secondary muscles

**The Greenfields Advantage - this unit incorporates Safe-Stop technology for a workout that's smooth and hazard-free**

[VIEW THE VIDEO](#)

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### ADJUSTABLE ROWER

UBX-290  
Equipped with **SafeStop**

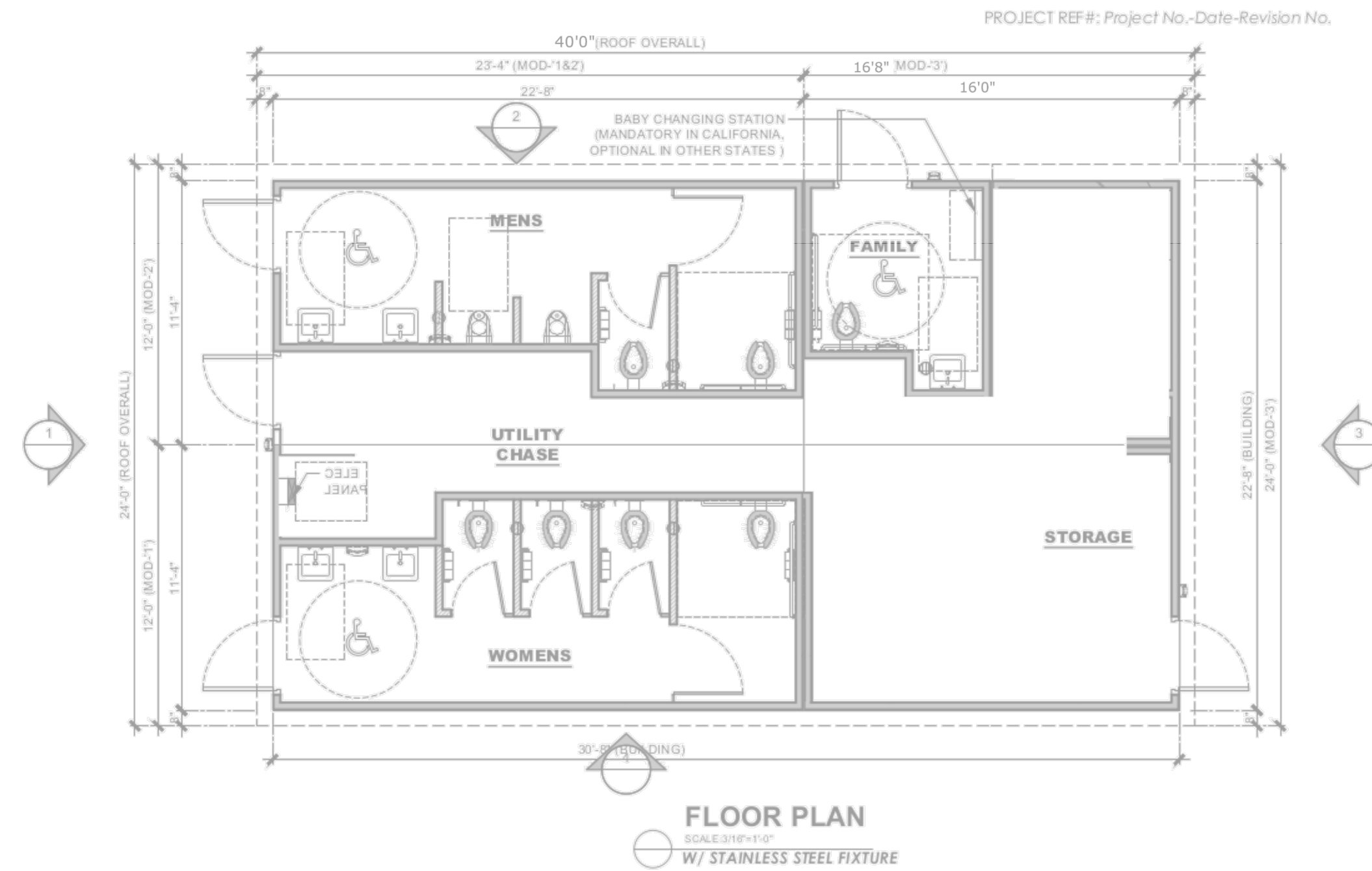
**Strengthens:**  
• Back  
• Arms (triceps, forearms)

**Target muscles:**  
Secondary muscles

**The Greenfields Advantage - this unit incorporates Safe-Stop technology for a workout that's smooth and hazard-free**

[VIEW THE VIDEO](#)

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	BUILDING TYPE: <b>RESTROOM BUILDING</b> PROJECT: <b>SS-275-FAM-ST CITY, STATE</b>	REVISION # - REVISION DATE: - DRAWN BY: - START DATE: - DRAWN BY: -	SHEET # <b>A-1</b> MAX. PERSON HOURS <b>405 M</b>
	<small>NOT FOR CONSTRUCTION - PRELIMINARY DESIGN DRAWING ONLY - DO NOT SCALE. DIMENSIONS PRECISE.</small>		

NOT TO SCALE  
EXERCISE EQUIPMENTS 2

NOT TO SCALE  
RESTROOM

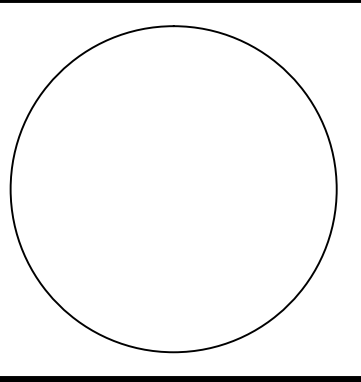
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**Troller Mayer Associates, Inc**  
Landscape Architecture Planning Urban Design  
1403 Kenneth Road, Suite B  
Glendale, California 91201-1421  
Ph:(818)956-8101 Fx:(818) 956-0120  
E-mail: mayer@trollermayer.com

NO.	REVISION DESCRIPTION	BY:

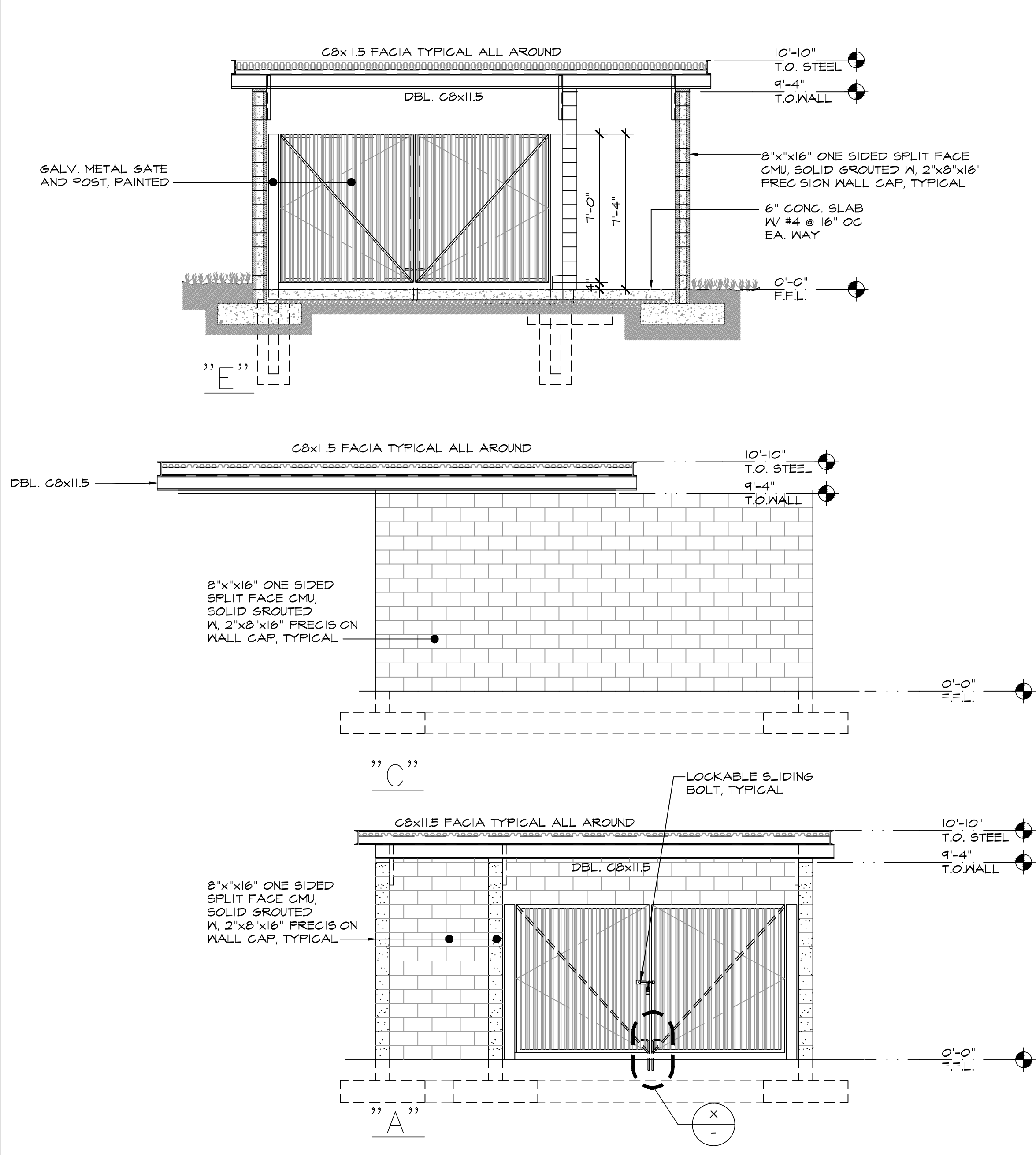
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21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



<b>LA HABRA LANDFILL</b> <b>VISTA GRANDE PARK</b> <b>CONSTRUCTION DETAILS</b>			
DESIGNED BY: TMA	DATE: 01-25-2020	SCALE: AS SHOWN	<b>L-403</b> SHEET 11 OF 20
DRAWN BY: TMA	DATE:		
CHECKED BY: JM	DATE:		
APPROVED BY: RM	DATE:		

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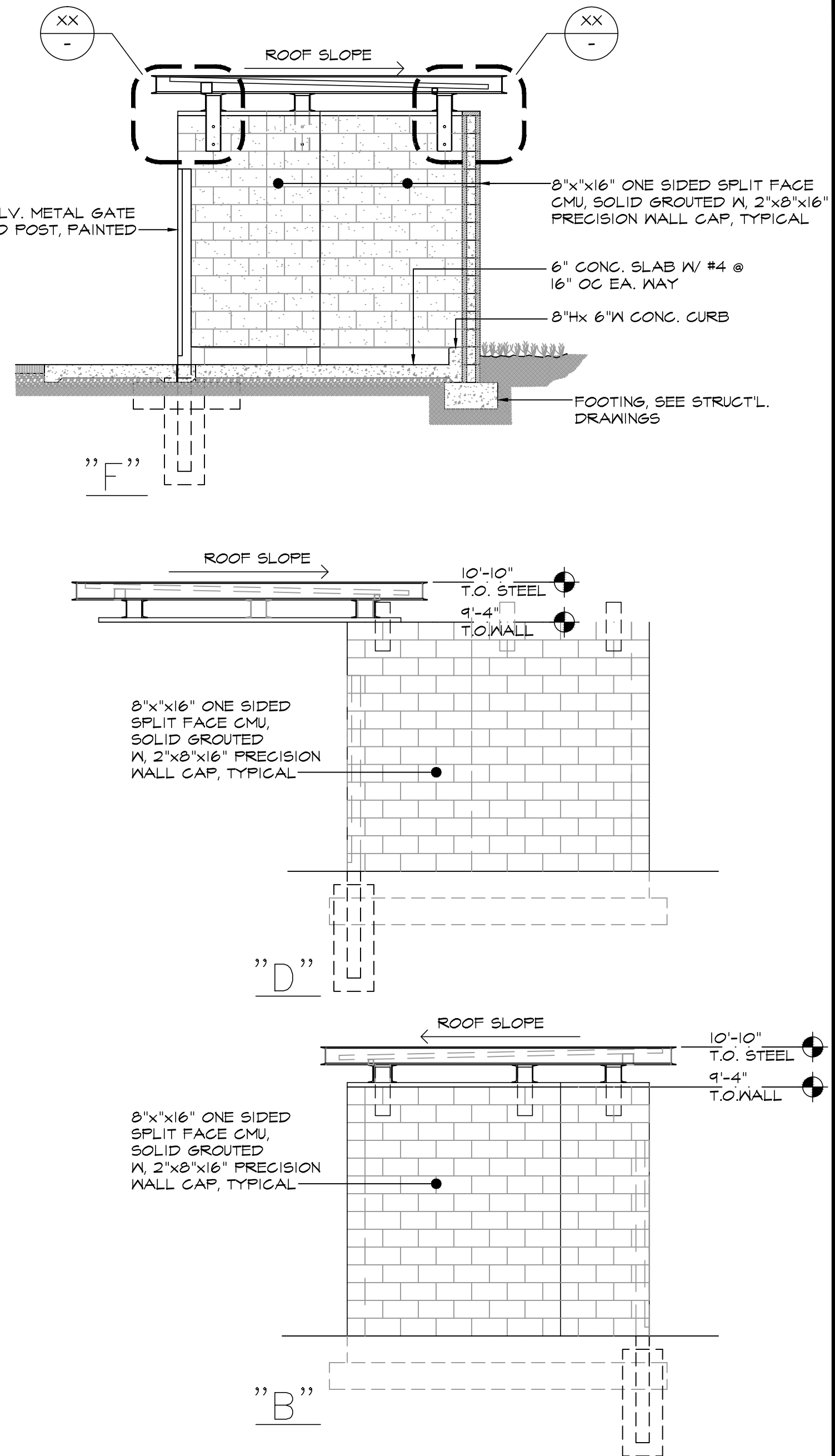
EXTERIOR ELEVATION AND SECTION



N.T.S

2

TRASH ENCLOSE ENLARGED PLAN



NOTE FOR TRASH ENCLOSURE ONLY:  
 1. APPLY CLEAR MASONRY SEALER TO ALL EXPOSED CMU, TYPICAL, SEE A204 (CONCRETE MASONRY UNIT)  
 2. PAINT ALL EXPOSED STEELS WITH DE6369, LEGENDARY GREY BY: DUNN EDWARDS

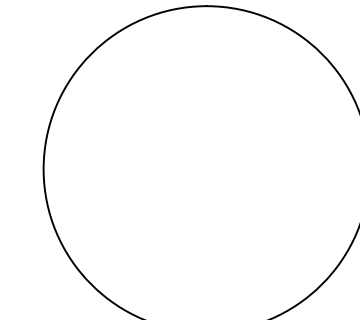
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**Troller Mayer Associates, Inc**  
 Landscape Architecture Planning Urban Design  
 1403 Kenneth Road, Suite B  
 Glendale, California 91201-1421  
 Ph: (818) 956-8101 Fx: (818) 956-0120  
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NO.	REVISION DESCRIPTION	BY:

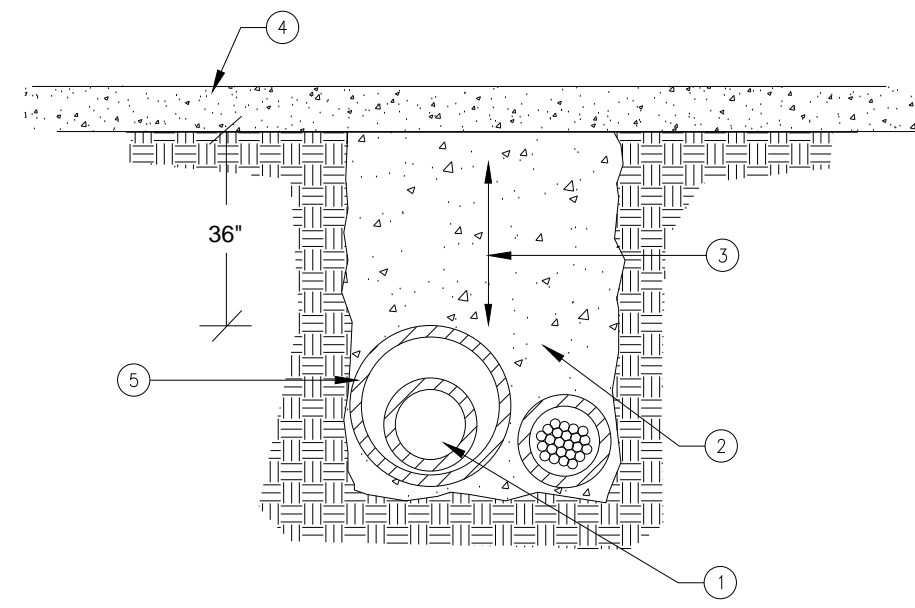
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APPROVED BY: RM	DATE:		
		L-404	SHEET 12 OF 20

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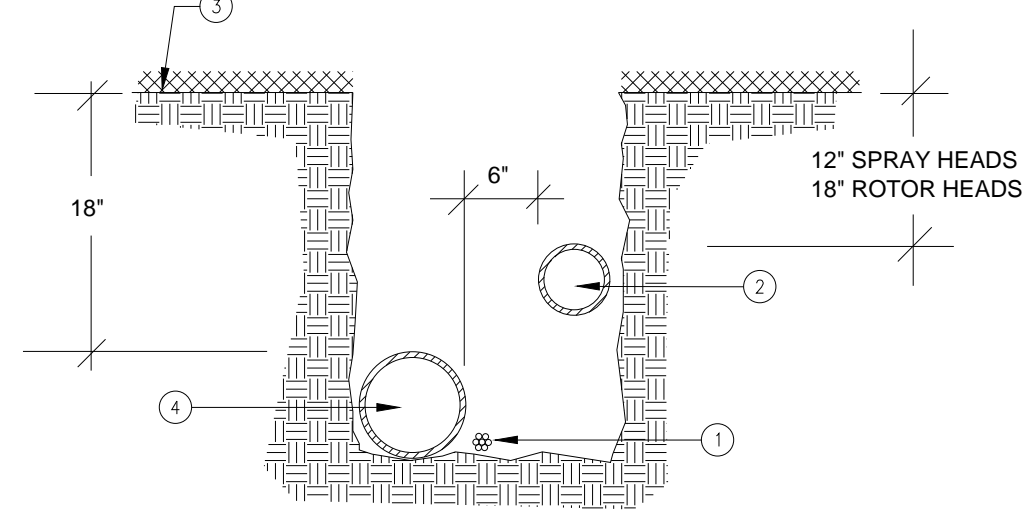




- 1 MAIN LINE PIPING
- 2 WIRE SLEEVE AND WIRE
- 3 1 SACK SLURRY MIX FILL TO BOTTOM OF PAVEMENT
- 4 PAVEMENT
- 5 SLEEVE FOR MAIN LINE PIPING 2 X THE DIAMETER OF THE PIPE PASSING THROUGH

NOT TO SCALE

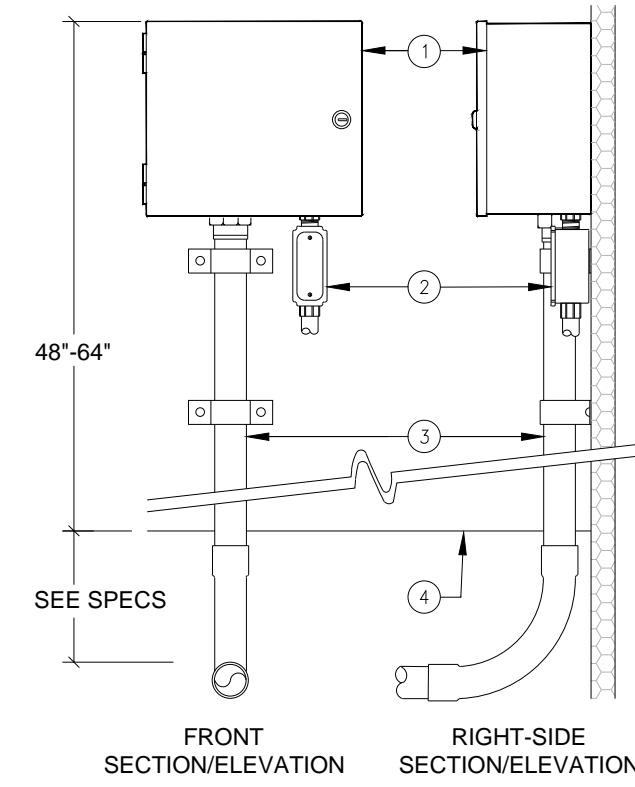
TRENCHING UNDER PAVING 5



- 1 CONTROL WIRE BUNDLE
- 2 SPRINKLER LATERAL
- 3 FINISH GRADE
- 4 MAIN LINE PIPING

NOT TO SCALE

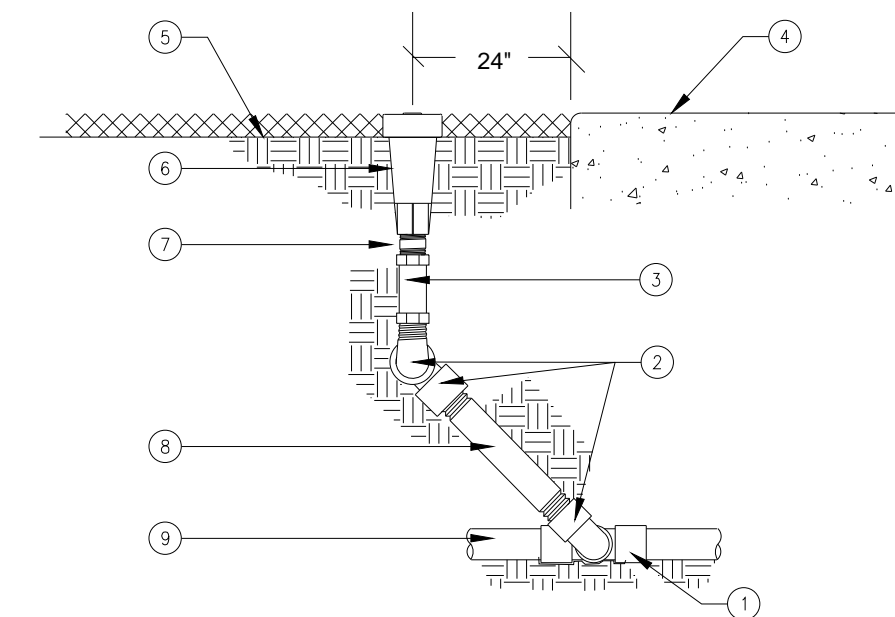
PIPE PLACEMENT AND TRENCHING 4



- 1 IRRIGATION CONTROLLER - SEE PLAN FOR NUMBER OF STATIONS, ANCHOR SECURELY TO WALL
- 2 1/2" CONDUIT FOR ELECTRICAL POWER CONDUCTORS PER LOCAL AND NATIONAL CODES BY OTHERS
- 3 2" CONDUIT FOR REMOTE CONTROL VALVES AND SENSOR WIRES - SECURE TO WALL WITH APPROPRIATE PIPE CLAMPS
- 4 FINISHED SURFACE
- 5 2" CONDUIT FOR REMOTE CONTROL VALVES AND SENSOR WIRES - SECURE TO WALL WITH APPROPRIATE PIPE CLAMPS

NOT TO SCALE

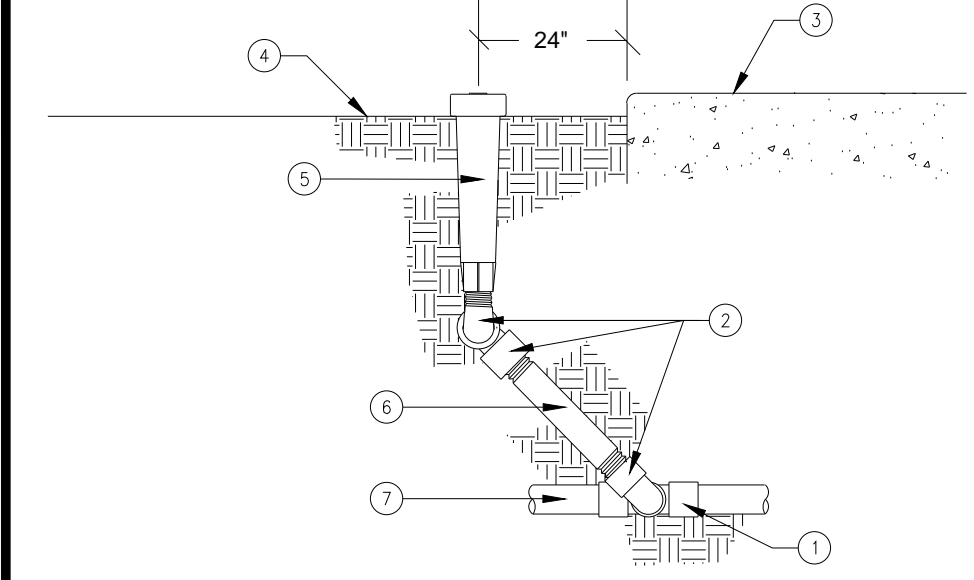
CONTROLLER-WALL MOUNT 3



- 1 PVC TEE OR ELL
- 2 MARLEX 90° STREET ELLS (3)
- 3 ADJUSTABLE SPRING CHECK VALVE (KBI OR VALCON)
- 4 WALK, WALL OR CURB
- 5 FINISH GRADE
- 6 2" POP-UP HEAD
- 7 SCHEDULE 80 PVC NIPPLE
- 8 SCHEDULE 80 PVC NIPPLE
- 9 SPRINKLER LATERAL PIPE

NOT TO SCALE

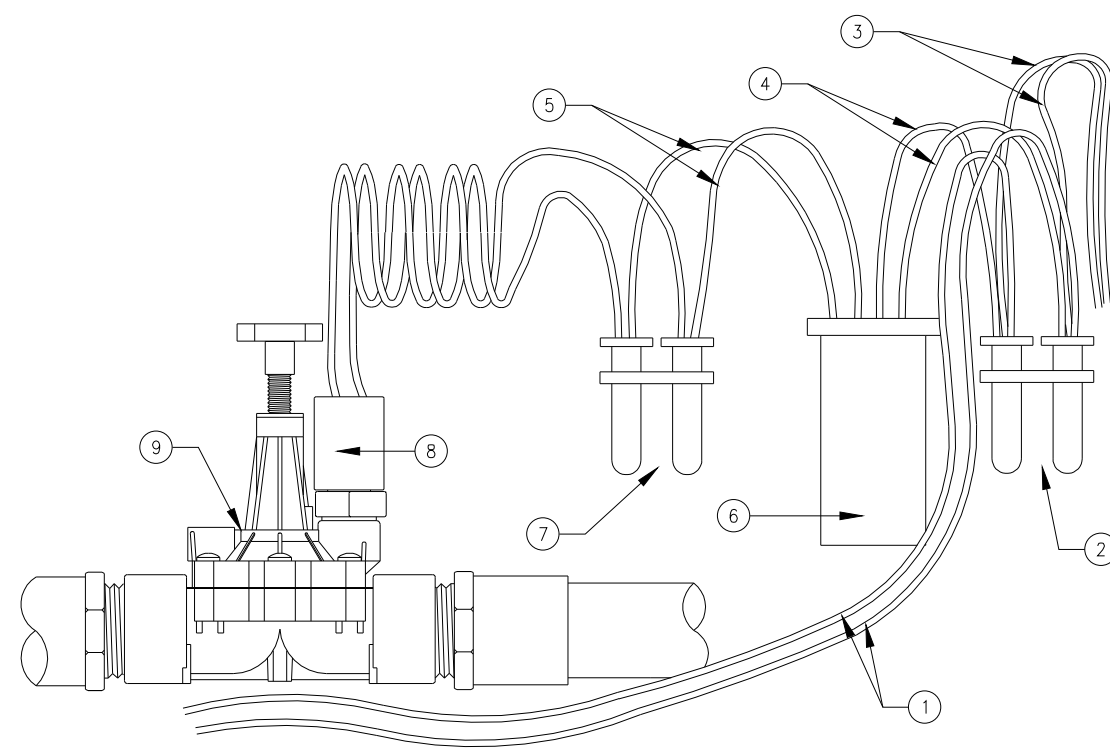
POP-UP BUBBLER HEAD 2



- 1 PVC TEE OR ELL
- 2 MARLEX 90° STREET ELLS (3)
- 3 WALK, WALL OR CURB
- 4 FINISH GRADE
- 5 6" POP-UP SPRAY HEAD
- 6 SCHEDULE 80 PVC NIPPLE
- 7 SPRINKLER LATERAL PIPE

NOT TO SCALE

POP-UP SHRUB HEAD 1

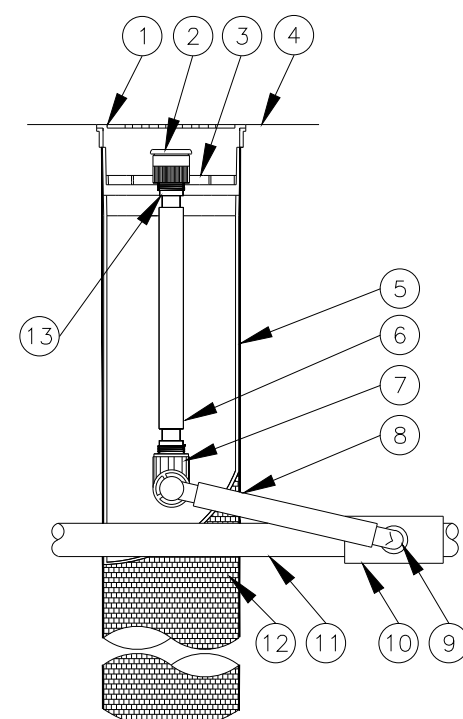


NOTE:  
2 WIRE TO BE GROUNDED OUTSIDE THE CONTROLLER AT THE END OF EACH 2 WIRE LINE & EVERY 1,000 FT OR AFTER EVERY 12 DECODER

- 1 WIRES FROM CONTROLLER (2)
- 2 HIT DBC-R CONNECTORS
- 3 WIRES TO NEXT VALVE (2)
- 4 RED WIRES
- 5 BLACK WIRES
- 6 RECIEVER
- 7 HIT DBC-R CONNECTORS
- 8 SOLANOID
- 9 REMOTE CONTROL VALVE

NOT TO SCALE

TYPICAL WIRING FOR REMOTE CONTROL VALVE 10

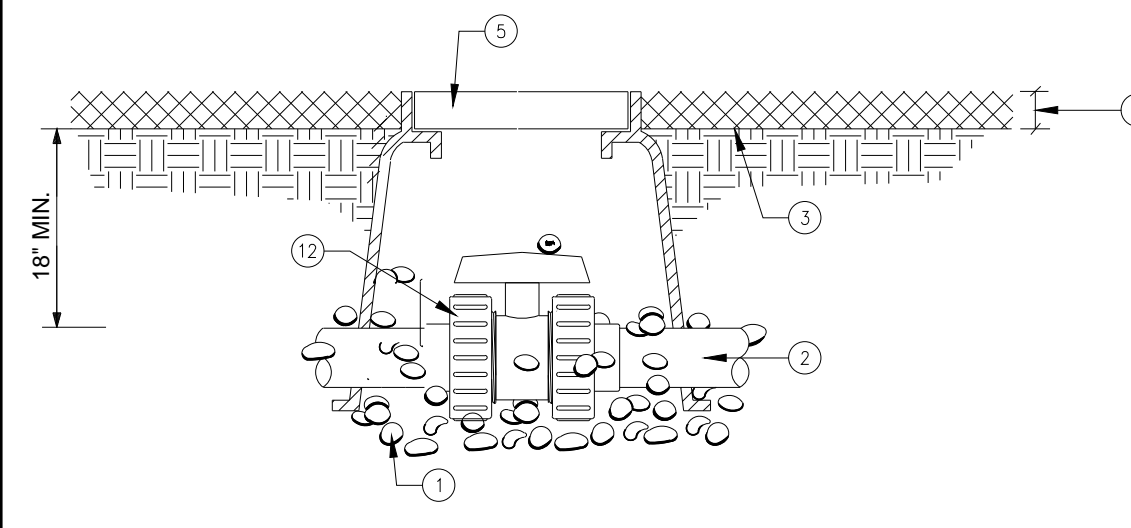


NOTES:  
1. INSTALL 2 PER TREE ON OPPOSITE SIDE OF THE ROOT BALL  
2. LOCATE 1" FROM ROOT BALL IN PLANTING BASIN.  
3. FOR TREES PLANTED IN TURF AREAS OMIT SURFACE BUBBLERS

- 1 4-INCH LOCKING GRATE (INCLUDED)
- 2 BUBBLER: RAINBIRD .5 GPM
- 3 ROOT WATERING SYSTEM
- 4 FINISH GRADE/TOP OF MULCH
- 5 RZWS SLEEVE
- 6 1/2-INCH POLY SWING PIPE (INCLUDED)
- 7 1/2-INCH SPIRAL BARB ELBOW (INCLUDED)
- 8 12-INCH SWING ASSEMBLY (INCLUDED)
- 9 1/2-INCH MALE NPT INLET (INCLUDED)
- 10 PVC SCH 40 TEE OR EL
- 11 PVC OR POLYETHYLENE LATERAL PIPE
- 12 4" WIDE X 36" LONG RIGID BASKET WEAVE CANISTER
- 13 1/2-INCH STRAIGHT SPIRAL BARB FITTING

NOT TO SCALE

DEEP WATER TREE WELLS 9

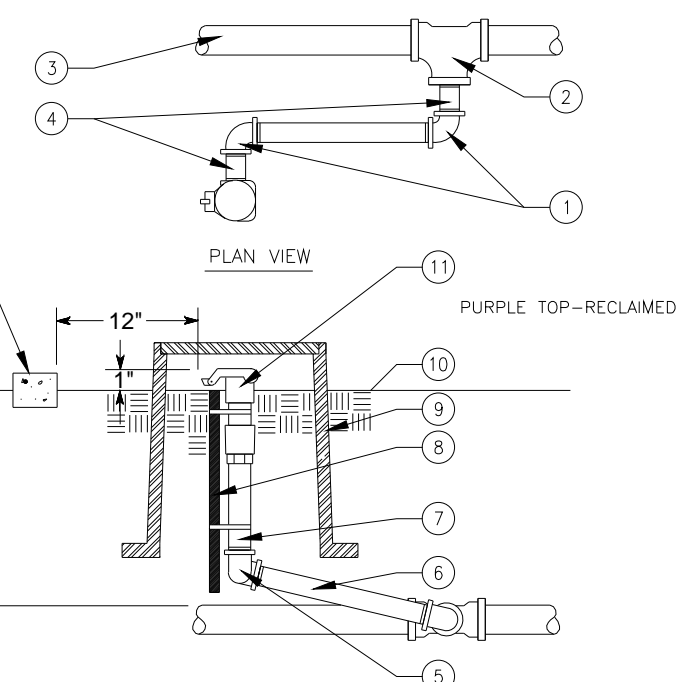


NOTE:  
USE 8" CLASS 200 PVC PIPE FOR ANY NECESSARY EXTENSIONS

- 1 1 CUBIC FT. PEA GRAVEL
- 2 MAIN LINE PIPING
- 3 FINISH GRADE
- 4 1" TURF, 2" G.C. AND SHRUBS
- 5 10" ROUND PLASTIC VALVE BOX
- 6 BALL VALVE

NOT TO SCALE

TRUE UNION BALL VALVE 8

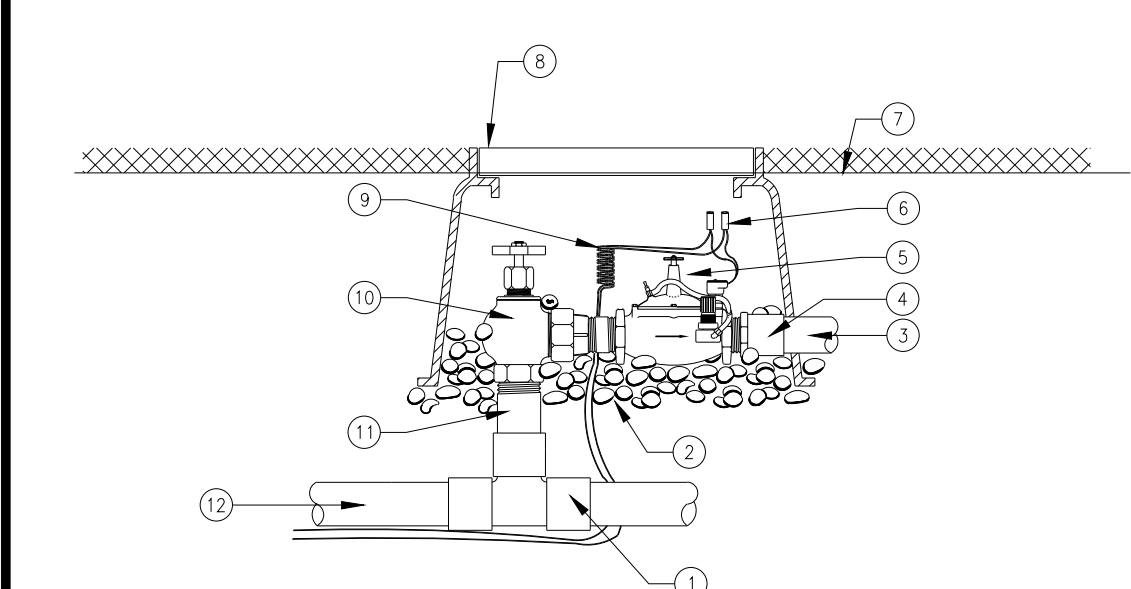


NOTES:  
1. NIPPLES AND FITTINGS TO BE SAME SIZE AS VALVE IPT INLET SIZE  
2. LOCATE QUICK COUPLING VALVES IN GROUND COVER OR PLANTER AREAS

- 1 SCH 80 PVC THREADED 90° ELL
- 2 UPC APPROVED SCH 40 PVC TEE OR ELBOW
- 3 PVC MAIN LINE
- 4 3" LONG SCH 80 PVC THREADED NIPPLE
- 5 SCH 80 PVC THREADED 90° ELL
- 6 10" LONG SCH 80 PVC THREADED NIPPLE
- 7 6" LONG SCH 80 PVC THREADED NIPPLE
- 8 #4 REBAR CLAMPED IN TWO PLACES W/GALV. OR STAINLESS STEEL BANDS
- 9 10" DIA. VALVE BOX
- 10 FINISH GRADE
- 11 QUICK COUPLING VALVE (SET VALVE & BOX AT FINISH GRADE IN TURF AREAS WHERE APPLICABLE)
- 12 WALL, WALK, CURB OR HEADER
- 1 1 CUBIC FT. PEA GRAVEL
- 2 PIPE TO SYSTEM
- 3 PVC MALE ADAPTER
- 4 REMOTE CONTROL VALVE
- 5 WATERPROOF CONNECTORS
- 7 FINISH GRADE
- 8 VALVE BOX-APPLIED ENGINEERING #1324-12
- 9 18" OF WIRE COIL AROUND A 1" PIPE
- 10 CHAMPION 300 MANUAL ANGLE VALVE
- 11 SCHEDULE 80 PVC TOE NIPPLE
- 12 MAIN LINE PIPING

NOT TO SCALE

QUICK COUPLER VALVE 7



- 1 PVC TEE OR ELL
- 2 1 CUBIC FT. PEA GRAVEL
- 3 PIPE TO SYSTEM
- 4 PVC MALE ADAPTER
- 5 REMOTE CONTROL VALVE
- 6 WATERPROOF CONNECTORS
- 7 FINISH GRADE
- 8 VALVE BOX-APPLIED ENGINEERING #1324-12
- 9 18" OF WIRE COIL AROUND A 1" PIPE
- 10 CHAMPION 300 MANUAL ANGLE VALVE
- 11 SCHEDULE 80 PVC TOE NIPPLE
- 12 MAIN LINE PIPING

NOT TO SCALE

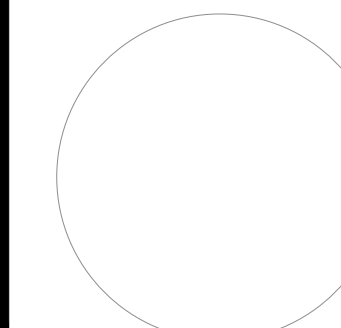
REMOTE CONTROL VALVE 6

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**Troller Mayer Associates, Inc**  
Landscape Architecture Planning Urban Design  
1403 Kenneth Road, Suite B  
Glendale, California 91201-1421  
Ph:(818)956-8101 Fx:(818) 956-0120  
E-mail: rmayer@trollermayer.com

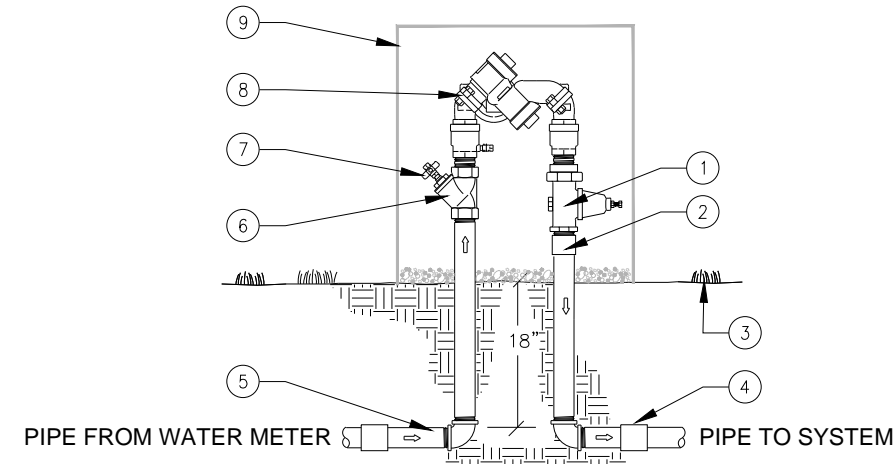
NO.	REVISION DESCRIPTION	BY:

**TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



LA HABRA LANDFILL VISTA GRANDE PARK IRRIGATION DETAILS			
DESIGNED BY :	TMA	DATE :	01-25-2020
DRAWN BY :	TMA	SCALE :	AS SHOWN
CHECKED BY :	JM	DATE :	
APPROVED BY :	RM	DATE :	
L-406			SHEET 14 OF 20

PROGRESS 50% CD SUBMITTAL (NOT FOR CONSTRUCTION)

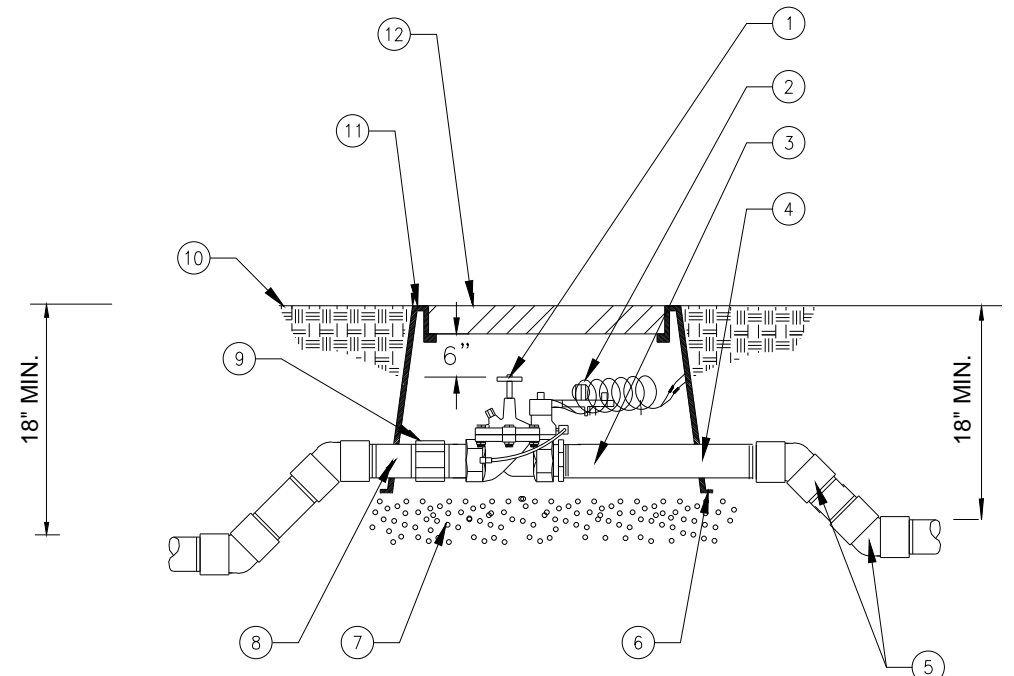


NOTE:  
ALL PIPE AND FITTINGS SHALL BE RED BRASS OR COPPER.  
IF COPPER IS USED, PIPING SHALL BE TYPE K.

- 1 PRESSURE REGULATOR VALVE SET AT 65 P.S.I. (6) WYE STRAINER
- 2 CXMIP ADAPTER IF COPPER IS USED (TYPICAL) (7) BALL VALVE
- 3 FINISH GRADE
- 4 SCHEDULE 40 PVC COUPLING LINE SIZE (2)
- 5 SCHEDULE 80 PVC TOE NIPPLE (2)
- 8 "N" PATTERN BACKFLOW PREVENTER FEBCO 825YA
- 9 METAL BACKFLOW ENCLOSURE: STRONG BOX BC-30CR, COLOR: GREEN OR EQUAL. CONTRACTOR SHALL INSTALL PER MFG. SPECIFICATIONS.

NOT TO SCALE

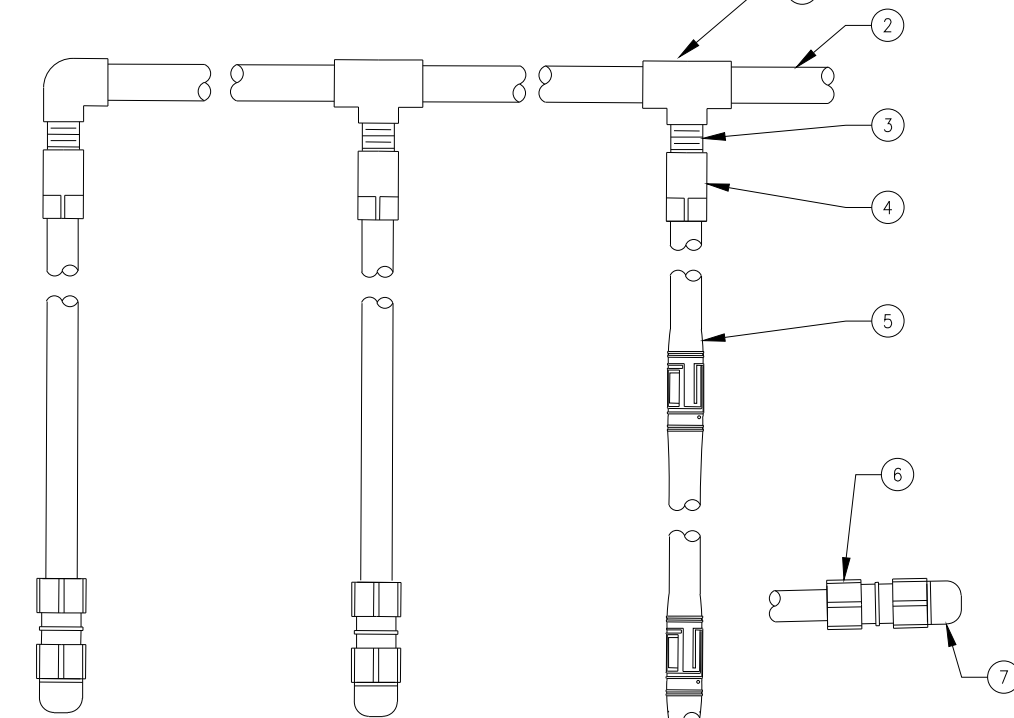
BACK FLOW PREVENTER W/ENCLOSURE 15



- 1 MASTER CONTROL VALVE WITH FLOW CONTROL AND MANUAL BLEED
- 2 VALVE CONTROL WIRE - USE PEN-TITE CONNECTORS AND 36" OF EXCESS OF WIRE IN A 1" DIAMETER COIL
- 3 SCH 80 PVC THREAD/NIPPLE
- 4 SCH 80 PVC NIPPLE LENGTH AS REQUIRED
- 5 MAIN LINE WITH SCH 80 PVC 45° ELBOWS
- 6 2"x4" NOM. RECYCLED PLASTIC LUMBER
- 7 PEA GRAVEL - 4" DEEP BELOW VALVE (NO SOIL IN VALVE BOX)
- 8 SCHEDULE 80 PVC THREADED FITTINGS (AS REQUIRED)
- 9 SCH.80 PVC UNION
- 10 FINISH GRADE
- 11 RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID, ONE VALVE PER BOX, NO EXCEPTIONS. TOP DIMENSION: 11 3/4" x 17" (12" DEEP)
- 12 ROUTE OR BRAND MV INTO LID

NOT TO SCALE

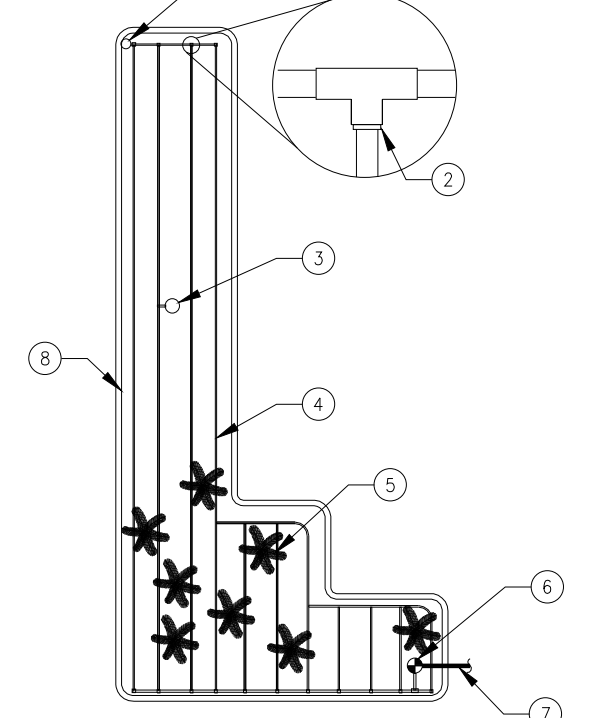
MASTER VALVE 14



- 1 PVC SCH 40 TEE OR ELL
- 2 PVC LATERAL PIPE
- 3 RAIN BIRD EASY FIT COMPRESSION ADAPTER
- 4 EASY FIT COMPRESSION COUPLING: RAIN BIRD MDCFCOUP
- 5 LANDSCAPE DRIPLINE TUBING: RAIN BIRD #XFD-09-12 4" FROM EDGE OF CURB/PLANTER
- 6 EASY FIT COMPRESSION COUPLING: RAIN BIRD MDCFCOUP
- 7 EASY FIT COMPRESSION FLUSH CAP: RAIN BIRD MDCFCAP

NOT TO SCALE

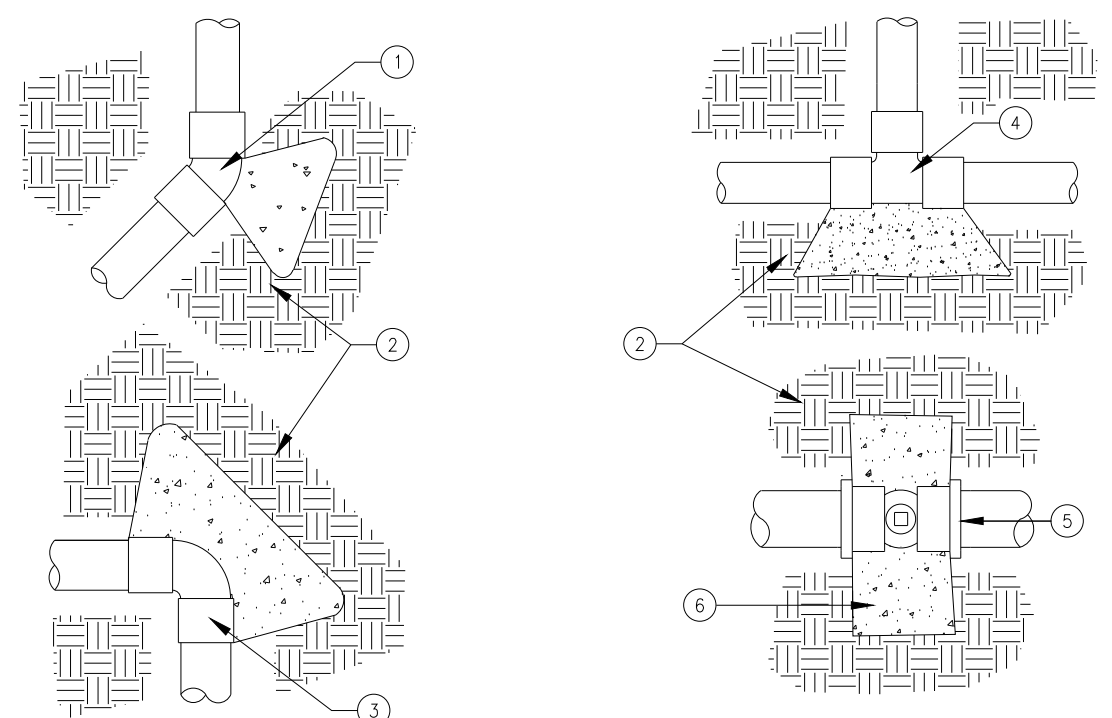
DRIP LINE LATERALS 13



- 1 FLUSH CAP RAINBIRD #MDCFCAP/COMP FTTG MDCFCOUP
- 2 COMPRESSION ADAPTER: RAINBIRD 600-CF-1
- 3 AIR/VACUUM RELIEF VALVE: INSTALL AT HIGH POINT
- 4 LANDSCAPE DRIPLINE TUBING RAINBIRD#XFD-09-12
- 5 DRIP LINE ON BOTH SIDE OF SHRUB(TYPICAL)
- 6 CONTROL ZONE VALVE
- 7 PRESSURE SUPPLY LINE
- 8 SUPPLY HEADER SCH 40 PVC WITH RAINBIRD # 600-CF-1 COMPRESSION FTTGS 4" AWAY FROM CURB

NOT TO SCALE

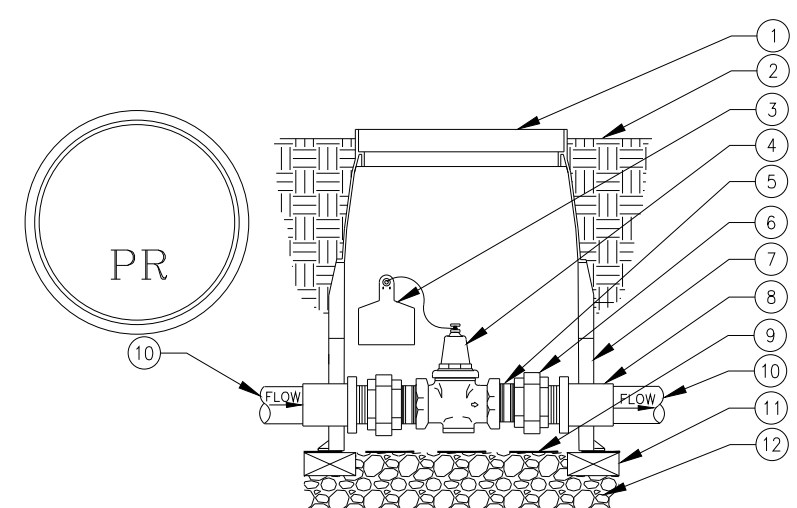
TYPICAL LAYOUT OF DRIP IRRIGATION 12



- 1 45° ELL
- 2 UNDISTURBED EARTH
- 3 90° ELL
- 4 TEE
- 5 GATE VALVE
- 6 CONCRETE (TYPICAL)

NOT TO SCALE

TYPICAL THRUST BLOCKS 11

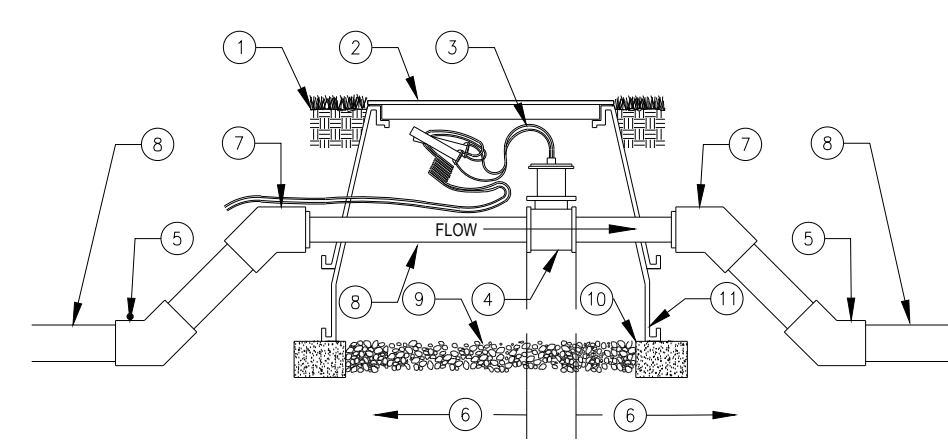


NOTES:  
1. ALL VALVE BOXES TO BE PLACED IN SHRUB AREAS WHERE POSSIBLE. SET VALVE BOX 1/2" ABOVE FINISH GRADE IN LAWN AREAS, 1" IN PLANTING AREAS AND 12" MIN FROM EDGE OF HARDSCAPE.  
2. CLOSED NIPPLES OR BUSHINGS ARE NOT ALLOWED.  
3. USE TEFLON TAPE BETWEEN TWO DISSIMILAR MATERIAL.  
4. GALVANIZED NIPPLE SHALL NOT BE USED.

- 1 VALVE BOX W/BOLT-DOWN COVER. HEAT BRAND "PR" ON VALVE BOX LID IN 2" HIGH CHARACTERS.
- 2 FINISH GRADE
- 3 CHRISTY'S I.D. TAG -NUMBERED TO MATCH DRAWINGS AND CHRISTY'S RECYCLED WATER WARNING TAG.
- 4 PRESSURE REGULATOR VALVE - LINE SIZE
- 5 BRASS NIPPLE
- 6 BRASS UNION
- 7 VALVE BOX EXTENSION (AS REQUIRED)
- 8 PVC SCH 80 ADAPTOR
- 9 1/4" SQ. 16GA. GALV. WELDED WIRE MESH
- 10 IRRIGATION MAINLINE
- 11 THREE (3) BRICK SUPPORTS
- 12 3/4" GRAVEL (12" DEEP)

NOT TO SCALE

PRESSURE REGULATOR 20

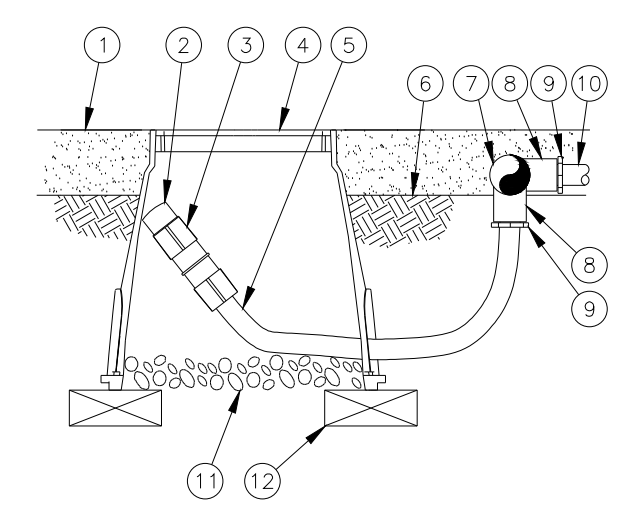


NOTE:  
INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

- 1 FINISH GRADE
- 2 VALVE BOX PER PLAN
- 3 CONTROL WIRES WITH 12" MIN. SERVICE COIL AND WATERPROOF WIRE SPLICE CONNECTORS - WIRE COLORS PER SPECIFICATIONS
- 4 FLOW SENSOR PER SPECIFICATIONS
- 5 PVC 45 DEGREE ELL (TYP.)
- 6 MINIMUM 10x PIPE DIAMETER UPSTREAM & MINIMUM 5x PIPE DIAMETER DOWNSTREAM OF STRAIGHT PIPE
- 7 PVC 45 DEGREE ELL (TYP.) BUSH DOWN TO FLOW METER SIZE AS NECESSARY
- 8 PVC MAINLINE - LENGTH AS REQUIRED - SEE SPECIFICATIONS FOR TYPE AND DEPTH
- 9 GRAVEL (1 CU. FT.)
- 10 CONTINUOUS BRICK SUPPORTS
- 11 VALVE BOX EXTENSIONS
- 12 AS REQUIRED

NOT TO SCALE

FLOW SENSOR 19

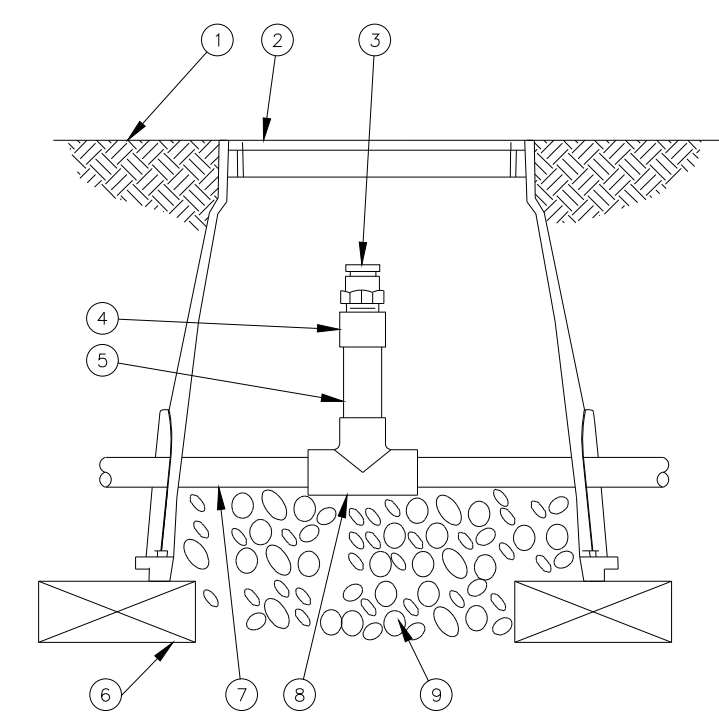


NOTE:  
ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

- 1 MULCH
- 2 FLUSH CAP FOR EASY FIT COMPRESSION FITTINGS: POTABLE: RAIN BIRD MDCFCAP
- 3 EASY FIT COUPLING: RAIN BIRD MDCFCOUP
- 4 SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
- 5 1/2" POLYETHYLENE TUBING: RAIN BIRD XF BLANK TUBING
- 6 FINISH GRADE
- 7 PVC EXHAUST HEADER
- 8 PVC SCH 40 TEE OR EL
- 9 BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
- 10 ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFCV DRIPLINE
- 11 3-INCH MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- 12 BRICK (1 OF 2)

NOT TO SCALE

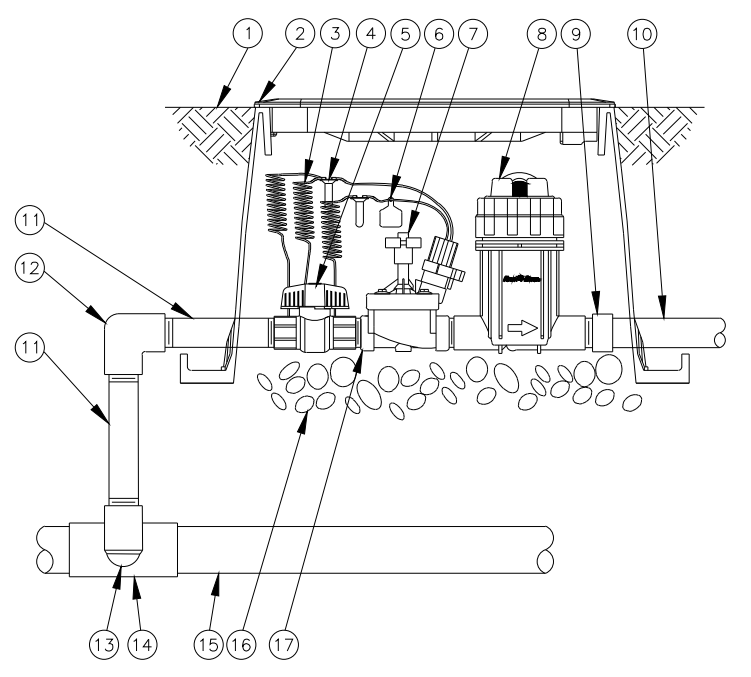
FLUSH CAP 18



- 1 FINISH GRADE
- 2 SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
- 3 1/2" AIR RELIEF VALVE: RAIN BIRD ARV050 TO BE INSTALLED AT HIGH POINTS IN DRIP ZONE
- 4 PVC SCH 40 FEMALE ADAPTOR
- 5 PVC SCH 80 RISER
- 6 BRICK (1 OF 2)
- 7 PVC HEADER PIPE
- 8 PVC SCH 40 TEE
- 9 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL

NOT TO SCALE

AIR RELIEF VALVE 17



- 1 FINISH GRADE/TOP OF MULCH
- 2 VALVE BOX WITH COVER: RAIN BIRD VB-STD
- 3 30-INCH LINEAR LENGTH OF WIRE, COILED
- 4 WATERPROOF CONNECTION: RAIN BIRD DB SERIES
- 5 1-INCH BALL VALVE (INCLUDED IN XCZ-PRB-100-COM KIT)
- 6 ID TAG
- 7 REMOTE CONTROL VALVE: RAIN BIRD PESB (INCLUDED IN XCZ-PRB-100-COM KIT)
- 8 PRESSURE REGULATING QUICK CHECK BASKET FILTER: RAIN BIRD PRB-QKCHK-100 (INCLUDED IN XCZ-PRB-100-COM KIT)
- 9 PVC SCH 40 FEMALE ADAPTOR
- 10 LATERAL PIPE
- 11 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 12 PVC SCH 40 ELL
- 13 PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
- 14 PVC SCH 40 TEE OR ELL
- 15 MAINLINE PIPE
- 16 3-INCH MINIMUM DEPTH OF WASHED GRAVEL
- 17 PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XCZ-PRB-100-COM KIT)

NOT TO SCALE

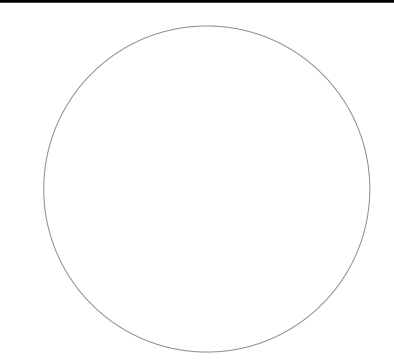
DRIP CONTROL VALVE 16

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**Troller Mayer Associates, Inc**  
Landscape Architecture Planning Urban Design  
1403 Kenneth Road, Suite B  
Glendale, California 91201-1421  
Ph: (818) 956-8101 Fx: (818) 956-0120  
E-mail: rmayer@trollermayer.com

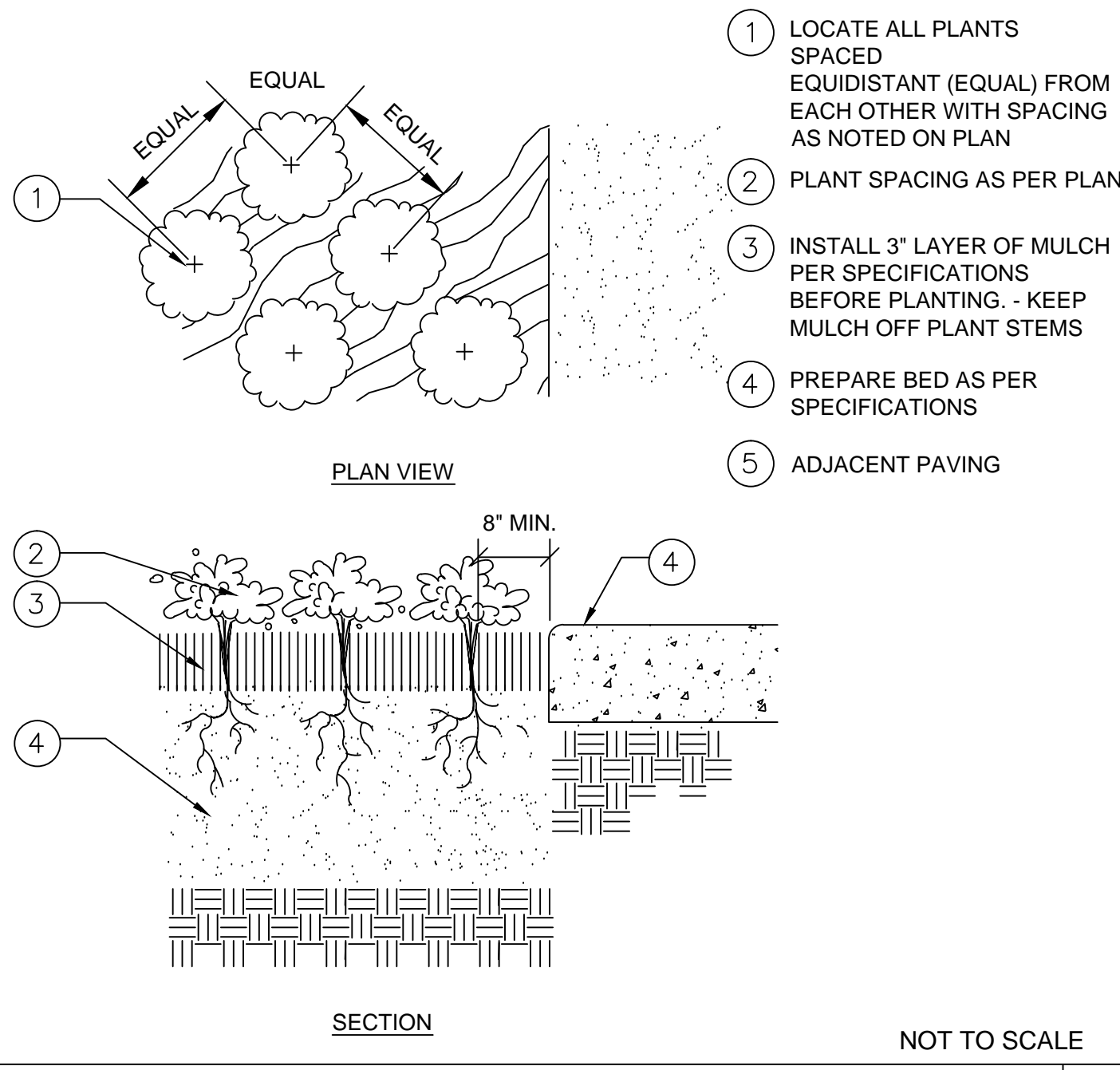
NO.	REVISION DESCRIPTION	BY:

**TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017

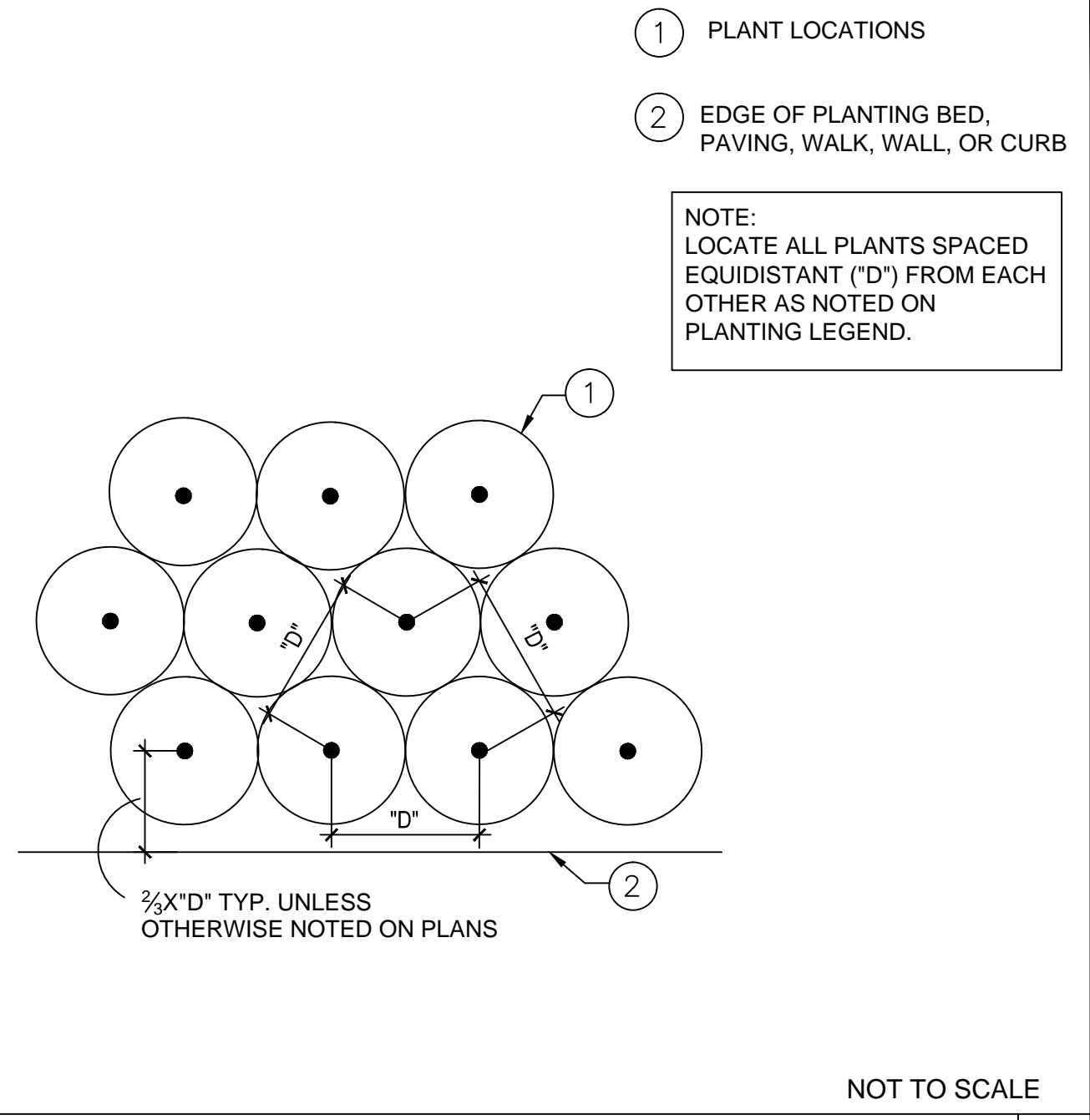


LA HABRA LANDFILL VISTA GRANDE PARK IRRIGATION DETAILS			
DESIGNED BY :	TMA	DATE :	01-25-2020
DRAWN BY :	TMA	SCALE :	AS SHOWN
CHECKED BY :	JM	DATE :	
APPROVED BY :	RM	DATE :	
L-407			SHEET 15 OF 20

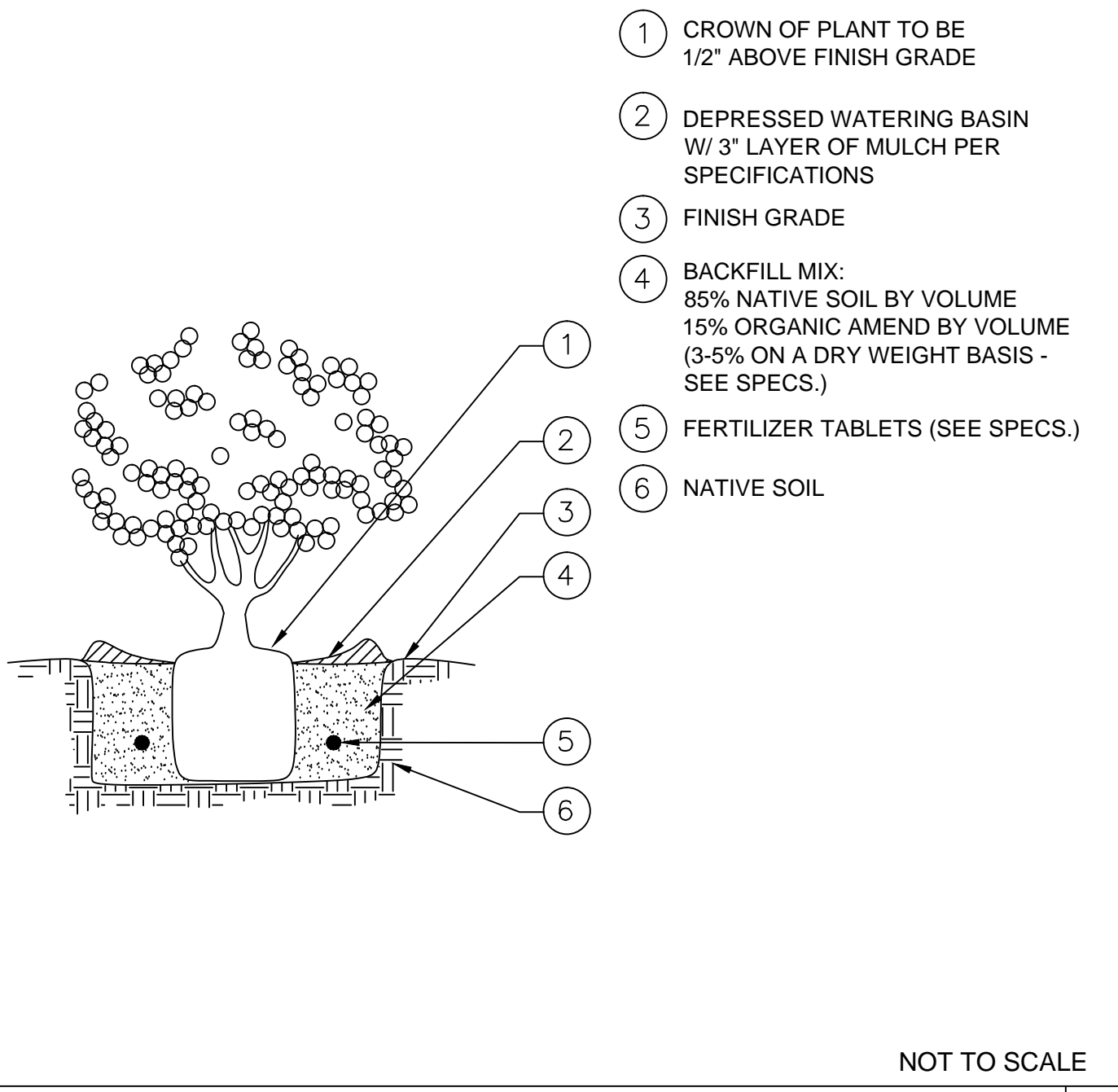
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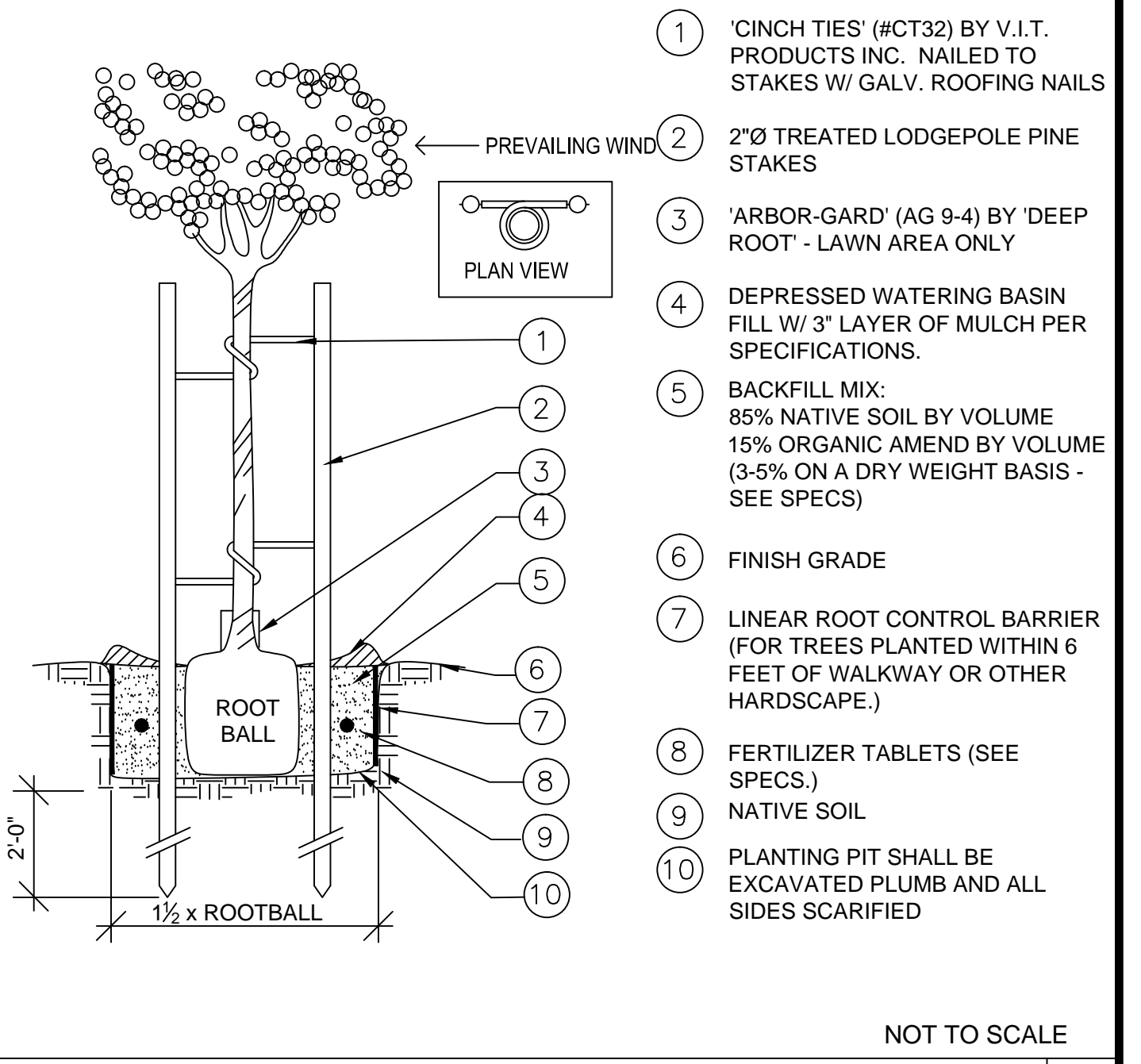
G.C. SPACING/PLANTING 4



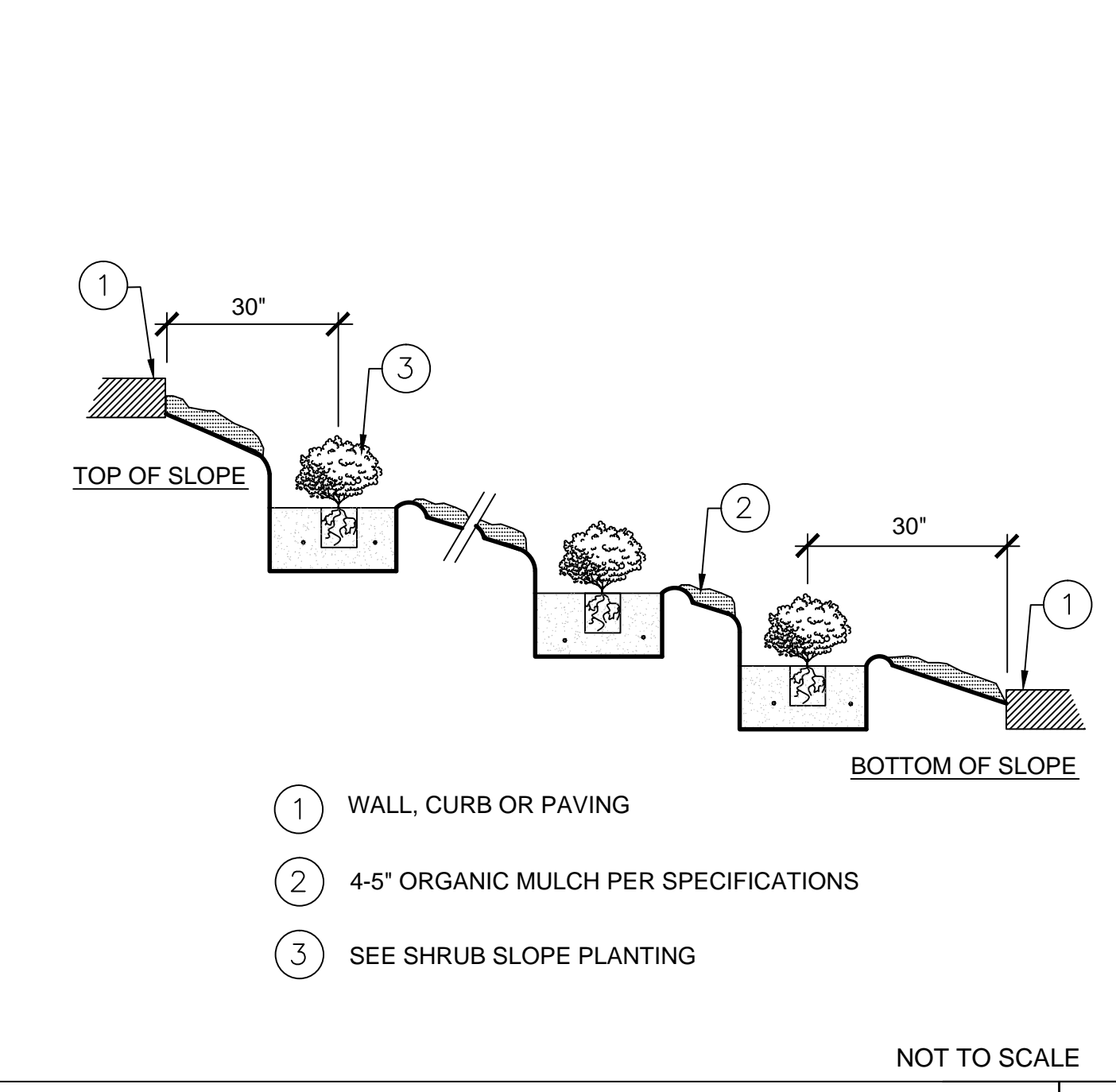
SHRUB SPACING 3



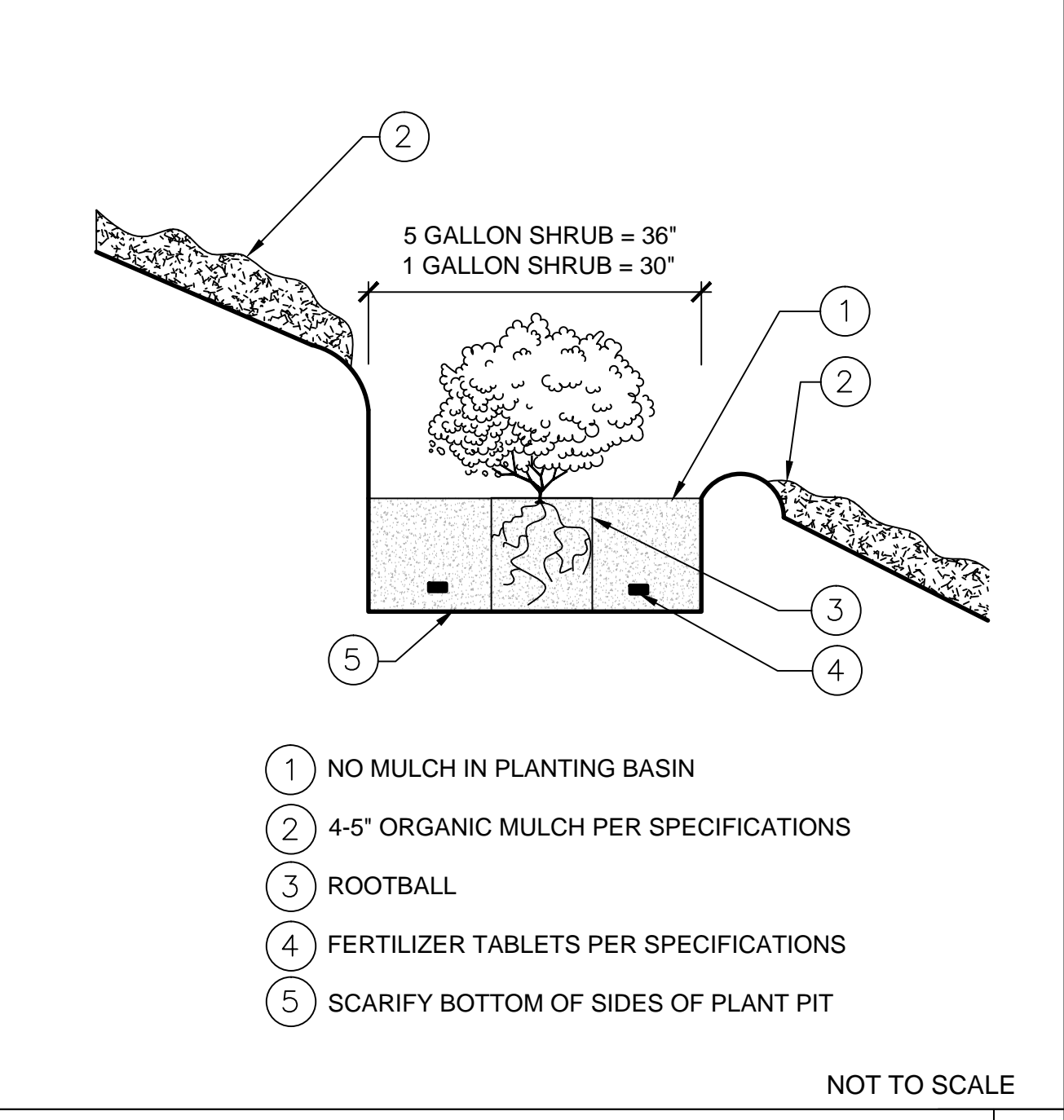
SHRUB PLANTING 2



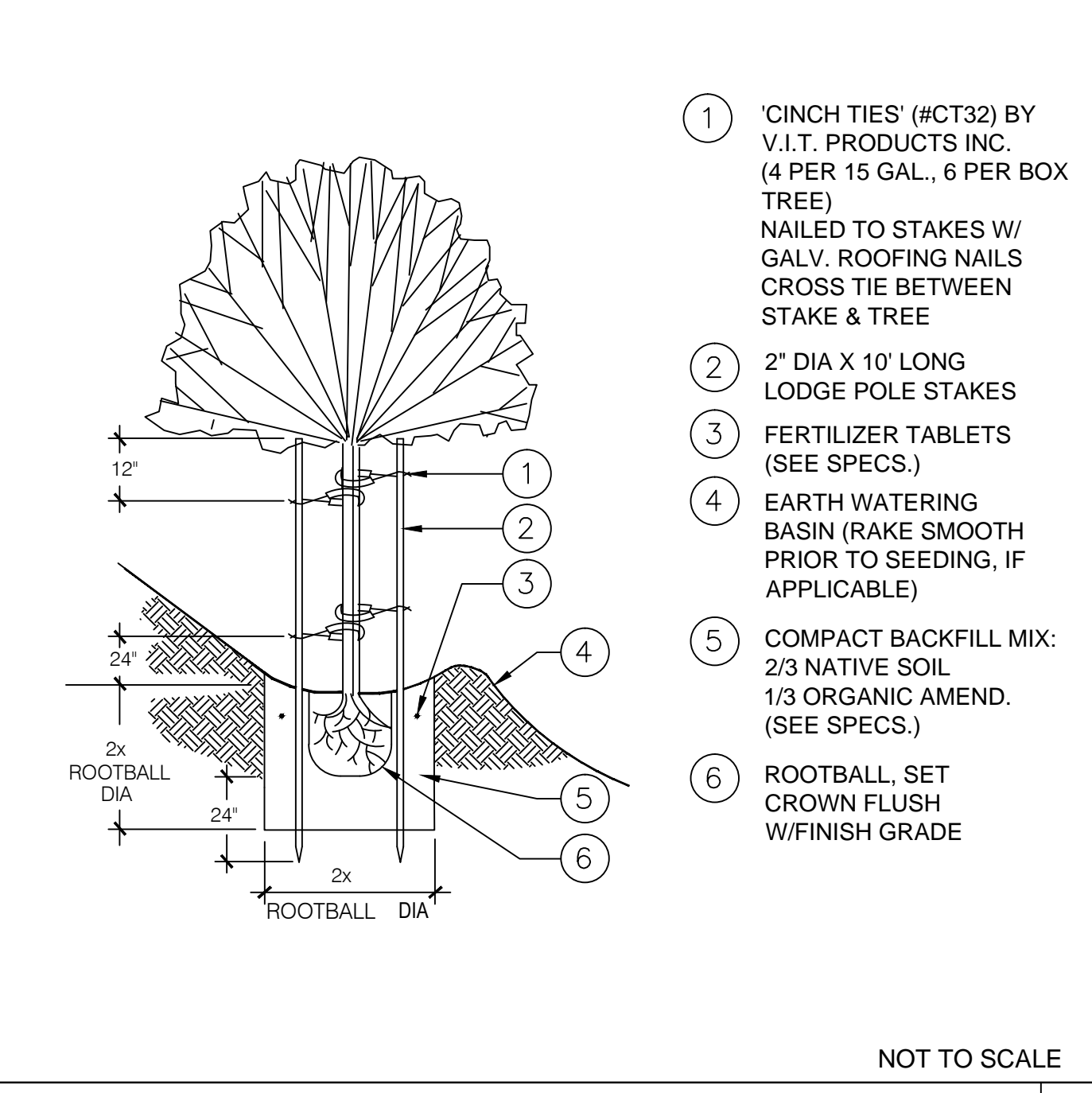
TREE PLANTING - DOUBLE STAKED 1



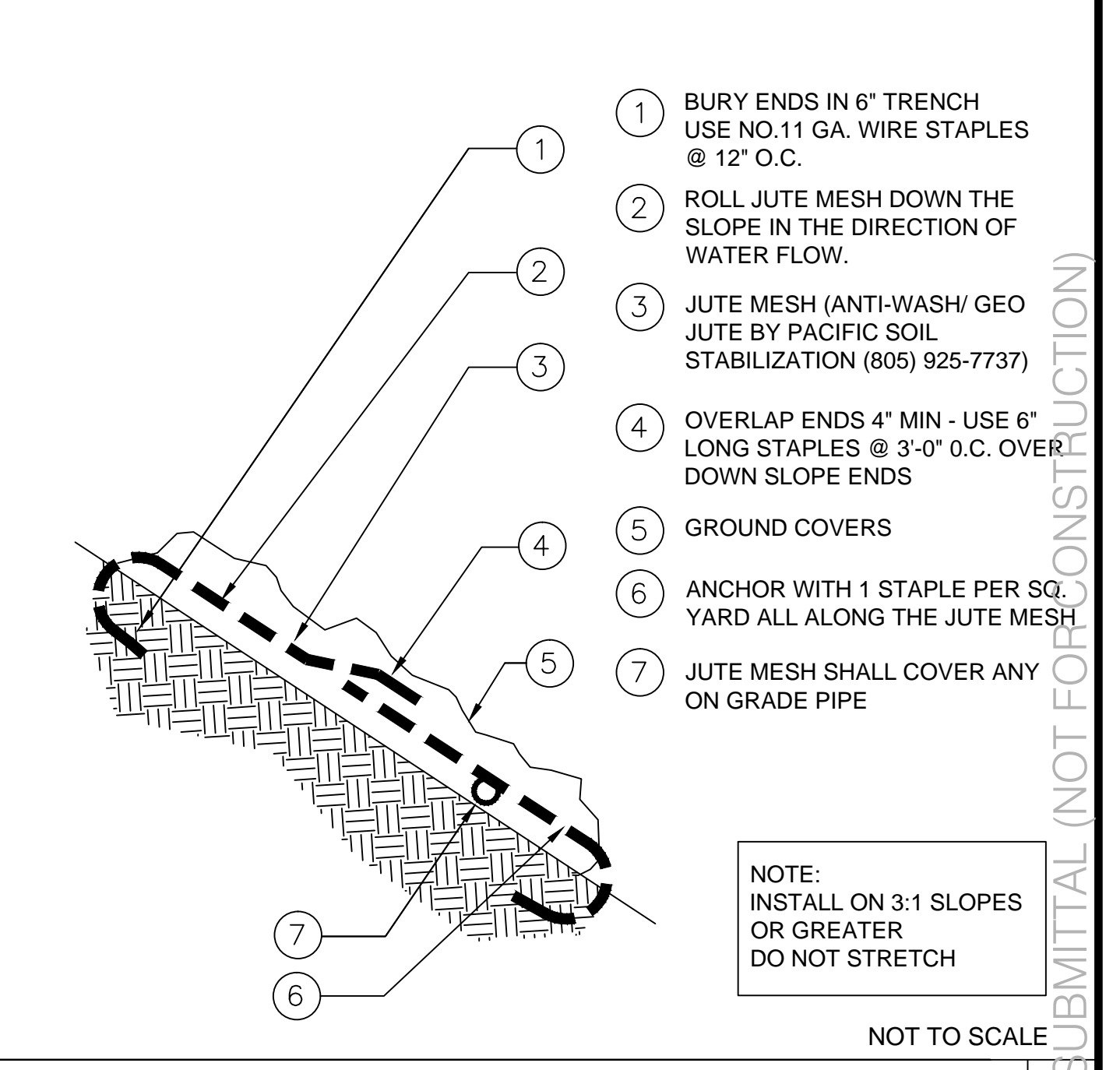
GROUND COVER SET BACK 8



SHRUB SLOPE PLANTING 7



TREE SLOPE PLANTING 6



SOIL STABILIZATION FABRIC / JUTE MESH 5

Underground Service Alert



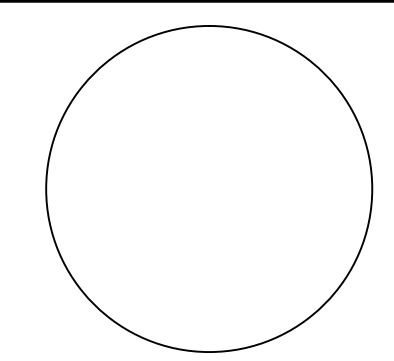
Call: TOLL FREE  
1-800  
422-4133

TWO WORKING DAYS BEFORE YOU DIG

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Landscape Architecture Planning Urban Design  
1403 Kenneth Road, Suite B  
Glendale, California 91201-1421  
Ph: (818) 956-8101 Fx: (818) 956-0120  
E-mail: rmayer@trollermayer.com

NO.	REVISION DESCRIPTION	BY:

**TE TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



LA HABRA LANDFILL VISTA GRANDE PARK PLANTING DETAILS			
DESIGNED BY :	TMA	DATE :	01-25-2020
DRAWN BY :	TMA	SCALE :	AS SHOWN
CHECKED BY :	JM	DATE :	
APPROVED BY :	RM	DATE :	
L-408			SHEET 16 OF 20

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PROGRESS 50% CIVIL SUBMITTAL (NOT FOR CONSTRUCTION)

SECTION 02900

LANDSCAPING

PART 1 - GENERAL.

1.01 DESCRIPTION: Division 1 applies to this Section. Provide all labor, materials, appliances, tools, equipment, facilities, transportation, and services necessary for and incidental to performing all operations in connection with the installation of the Work of this Section, complete as shown on the Drawings and/or specified herein.

A. Work In This Section: Principal items include:

- 1. Examine all other Sections for Work related to those other Sections and required to be included in this Section.
2. Fine grading in landscaping areas.
3. Landscaping.
4. Rodent and vermin control.
5. Soil Testing and Soil Preparation
6. Plants and Planting
7. Staking
8. Herbicide
9. Watering and maintenance

B. Related Work Not In This Section:

- 1. Section 01532 - Tree Protection
2. Section 02810 - Irrigation
3. Section 02770 - Landscape Maintenance

1.02 SUBMITTALS: Refer to Section 01300 for procedures.

A. Materials list: Submit complete material list prior to performing any work. Material list shall include manufacturer, model number, and description of all materials and equipment to be used. The Contractor shall also furnish the articles, equipment, materials, or processes specified by name in Drawings and Specifications. For Tree Submittals, provide photo image, height, canopy, width and caliper at 4' height. A nursery worker shall stand next to the tree in the image for a sense of scale. For Shrub, Groundcover and Vine Submittals, provide photo image, height and width of the entire plant. No substitutes will be allowed without prior written acceptance. Equipment or materials installed or furnished without prior approval of the Architect may be rejected and the Contractor required to remove such materials from the site at his own expense. All cut sheets, nursery images of trees and samples of materials shall be submitted 3 weeks prior to installation.

B. Manufacturer's Product Specification Cut Sheets/Data:

- 1. Provide 6 copies for all materials
2. Submit manufacturer's standard printed product data for all items, referenced to article number in this specification for which each item is being submitted.
3. Submit manufacturer's printed installation instruction and methods.
4. Material Safety Data Sheets (MSDS): For all products used.

C. Required Manufacturer's Product Specification Cut Sheets (Physical Samples): Delivery may begin upon approval of Cut Sheets/Samples or as directed by Owner's Representative. Submit Samples in the form of Cut Sheets and Physical samples as required by the Landscape Architect or Owner's Representative and store on the site until furnishing of material is complete. Samples and Cut Sheets required are listed below:

- 1. Irrigation Equipment (see Section 02810)
2. Submit 'bagged' samples of each of the following, (2) samples of each, accompanied by (6) copies of the manufacturer's specification cut sheets:

- Physical Samples of Bark Mulch
Decomposed Granite/Stabilizer
Decorative Rock/Pea Gravel
Planting Mix, and Soil Amendments. NOTE: Approved samples of each to remain on site until furnishing of materials is complete. Delivery may begin upon approval of all submittals or as directed by Owner's Representative.

- 3. Cut Sheets for Tree Root Control Barriers and Aluminum Edging
4. Cut Sheets for Tree Stakes/Weed Whip Guards
5. There shall be at least one (1) photograph of each species of tree, shrub, vine and ground cover to be planted. All photographs shall be taken with a person/or a scale in each photo next to the plant. Include with the photographs of all trees a notation of caliper, canopy width and height of each species of tree. If there are multiple boxes or gallon sizes of the same plant, include separate information for each container sized tree.
6. Fertilizer Analysis: also provide labels of each fertilizer used and the quantities used in each application.
7. Soil Amendment Analysis
8. Analysis of Imported Topsoils and Sand
9. Cut Sheets of Herbicides, Pesticides and Fungicides: Furnish manufacturer's certification by the USDA, description of ingredients, and recommendations for usage and application rates for each material to be used and dates of application
10. Cut Sheets shall be provided for all other products noted in Part 2, 2.01 Soil Additives, Fertilizers, and Herbicides and 2.02 Staking Material.

D. Certificates: The Contractor shall submit, at time of delivery, to the Inspector of Record (IOR), delivery receipts or tickets of all amendments and soil additives, reflection actual quantities and type of material delivered to the project site. Delivery receipts or tickets shall include the name of the project and the date of the actual delivery. Four (4) copies of all receipts / tickets shall be forwarded to the Architect, by the Contractor. Approval of types and quantities by the IOR and Architect are required prior to working or spreading any amendments or soil additives.

E. Prior to being placed on maintenance-Refer to Section 3.06 "Inspection, Start of Maintenance" - the Contractor shall submit a schedule of all activities planned during the maintenance period. This shall be accepted by the Grounds Supervisor prior to the start of the maintenance period. All schedule changes shall be documented and accepted by the Grounds Supervisor.

F. Prior to the date of the final walk-through, the Contractor shall acquire from the Grounds Supervisor approved reproducible prints and shall produce the final record from the job record set of all changes made to all plans during construction, label said prints, "As-Built" and deliver to the Grounds Supervisor and as required by any Local Agency. Prior to the date of final inspection, the Contractor shall deliver to the Grounds Supervisor the "Landscape and Irrigation Guarantee" as required. Said Guarantee shall be on the Contractor's letterhead and dated the scheduled final acceptance date.

G. All turnover items noted in other specification sections shall be delivered prior to the final walk-through.

H. Supply a monthly record of all herbicides, insecticides, fertilizers, and disease control chemicals with rates and amounts used noted.

1.03 PROTECTION OF WORK: The Contractor shall be responsible for protection of all adjacent finished surfaces and materials, both interior and exterior, while performing all landscape and irrigation operations, including maintenance. These finishes and materials shall be cleaned and returned to as-new condition when work is completed.

1.04 GUARANTEES AND REPLACEMENTS: Refer to Section 01780.

A. Shrubs and groundcover: Guarantee shrubs and groundcover to live on a healthy condition for one (1) year from the end date of the 90 day Maintenance Period.

B. Trees: Guarantee all trees to live in a healthy condition for (1) one year from the end date of the Maintenance Period. Dead or unhealthy trees shall be replaced within 10 days after notification of Contractor by the Owner's Representative or the Architect.

C. Dead and Non-Vigorous Plants: As soon as weather permits, replace all dead plants and all plants not in a vigorous condition as noted within 2 days

D. Replacements: Plants used for replacement shall be the same kind and size as specified on the Planting Plan. They shall be furnished, planted, and fertilized as specified at no additional cost to the Owner. Replacement plants shall be maintained for a period of time equal to the original maintenance period. They shall be in excellent condition following the replacement and maintenance.

E. Provide Certificate of Compliance from authority having jurisdiction indicating approval of plants, fertilizer and herbicide mixture. Plant Materials: Described by ASTM Z90.1, free of disease or hazardous insects.

F. Decomposed Granite:
a. Special Warranty: Submit a written warranty executed by the installer agreeing to repair or replace components of stabilized surfacing that fail in materials or workmanship within the specified warranty period. Failures include, but are not limited to, the following:
1. Premature wear and tear, provide the material is maintained in accordance with manufacturer's written maintenance instructions.
2. Failure of system to meet performance requirements.

b. Warranty Period: Contractor shall provide warranty for performance of product. Contractor shall warranty installation of product for the time of one year from completion. Contractor shall provide, for a period of sixty days, unconditional maintenance and repairs as required.

PART 2 - PRODUCTS.

2.01 SOIL ADDITIVES, FERTILIZERS, LANDSCAPE MATERIALS, AND HERBICIDES:

A. Mulch: "Walk On-Bark" as supplied by Wickes Forest Industries, Kellogg Supply, Sequoia Forest Products, or equal approved by the Owner's Representative. The mulch shall consist of fibrous, woody bark mixture of varied particle size.

B. Prepared Planting Mix for Backfill in all Planting Pits Except Raised Planters: Materials and amounts specified here are anticipated. This amendment is for bidding purposes and shall be superseded by recommendation of soil test/analysis report. Mix shall be the following materials thoroughly mixed:

- By volume: 30% GroMulch and 70% excavated soil
Plus 2 lb. 12-12-12 commercial fertilizer per cubic yard of mix.
Plus: 3 lb. Agricultural grade gypsum per cubic yard of mix
Plus: 2 lb. Iron sulfate per cubic yard of mix

C. Ammonium Sulfate: Shall be standard brand (NH4) 2SO4.

D. Urea Formaldehyde: 35\_0\_0 shall be standard brand, as approved by the Architect.

E. Iron Sulfate: Shall be standard brand 20% Fe.

F. Vitamin B1 Root Hormone: Hormone shall be Superthrive, Hormex, or equal approved by the Architect.

G. Nitroized Fir bark Fines: Fines shall be "Forest Humus" as sold by Kellogg Company, or equal approved by the Architect.

H. Commercial Fertilizer: Fertilizer shall be 12\_12\_12, standard commercial brand as approved by the Architect. Nitrogen for this mix shall be derived from 2% ammoniac, 5% urea, and 14% urea formaldehyde.

I. Gro Mulch: Mulch shall be as manufactured by the Kellogg Co.

J. Herbicide: Herbicide shall be Roundup or equal approved by the Architect.

K. Fertilizer Tablets: Agriform per manufacturer's recommendations.

L. Agricultural Gypsum: Gypsum shall be agricultural calcium sulfate CaSO4 approved by Landscape Architect. This shall only be used in clay or adobe soils.

M. Mycorrhizal Fungal Inoculant: Plant and Tree Saver Transplant manufactured by Plant Health CareInc. or equal.

N. Soil Sulfur: Agricultural grade sulfur containing a minimum of 99% sulfur (expressed as elemental).

2.02 STAKING MATERIAL:

A. Stakes: Stakes for larger plant material shall be 2" diameter x 10'\_0" long lodge pole stakes, actual dimension.

B. Ties: Ties shall be V.I.T. Cinch Ties, Model #CT32 For 24" box trees.

C. Tree Trunk Guards: Guards shall be Arbor Guard by Deep Root, (714) 898\_0563, or equal approved by the Architect and shall be installed on the trunks of all trees in lawn areas.

A. Root Control Barrier: All 48" box, 36" box, 24" box and 15 gallon trees planted within 6' of any hardscape areas (sidewalks, walls, concrete drainage swales, curbs, driveways or any other structure) shall include root barriers, root barriers shall extend 5' on either side of the trunk for a total length of 10'. Root barriers are as follows:

- 1. 36" box trees, 24" box trees, and 15 gallon trees - Model # UB 18-2 available from DeepRoot, (800) 766-8835
2. 48" box trees - Model # UB 24-2 available from DeepRoot, (800) 766-8835

2.03 PLANT MATERIALS:

A. Quality and Size:

- 1. Quality and size of all plants shall be No. 1 grade. They shall be fresh, vigorous, of normal growth, free of disease, insects, insect eggs and larvae, with strong root systems.
2. Sizes of plants shall be as stated on the planting plan. No root bound or undersized materials shall be allowed.
3. Protect and maintain plant material in a healthy and vigorous condition until planted.
4. Do not install plant material when ambient temperatures may drop below 35 degrees F or rise above 90 degrees F.
5. Do not place plants in containers or asphalt paving when outdoor temperature exceed 100 degrees F, for a period exceeding 16 hours.

B. Pruning: Pruning shall not be done prior to delivery except by special approval of the Architect.

- 1. Tree Trimmer Qualifications: Company specializing in pruning trees with proof of ISA Arborist Certification and ISA Tree Worker Certification.
2. Tree Pruning: ISA - Pruning Standards for Shade Trees.

C. Inspection: Inspection of plant materials required by City, State, or Federal authorities shall be a responsibility of the Contractor, and he shall obtain permits or certificates prior to delivery of plants to site.

D. Plant Marking: Each plant shall be clearly marked with a waterproof tag as to its botanical name as required by California State Agricultural Laws.

E. Deliver, store, protect and handle products to site under provisions of Section 01600 - Materials and Equipment.

2.04 IMPORTED TOPSOIL:

A. Class A topsoil: good class A topsoil should be used as in the following definition. The soil must have good structure. If necessary, the soil can be conditioned to help improve the physical soil properties.

- 1. Topsoil shall be free of roots. Clods and stones larger than 1-inch in the greatest dimension, pockets of coarse sand, noxious weeds such as nut grass roots and nodules, sticks, brush and other litter. It shall not be infested with nematodes or other undesirable insects or plant disease organisms.
2. Topsoil shall be friable and have sufficient structure in order to give good tilth and aeration to the soil. Total pore space content on a volume/volume basis shall be at least 15 percent when moisture is present at field capacity. Soil shall have a field capacity of at least 15 percent by weight.
3. Gradation limits - Soil shall be a sandy loam, loam, or clay loam. The definition of soil texture shall be per the USDA classification scheme.

B. Quality control: All topsoils to be imported for the planting areas shall receive an "Agricultural Suitability Analysis" of soil before being placed in the planting areas. Soil shall be tested from the source site. There shall be 1 (one) test from each source site. After delivery to site the soil shall again receive 1 (one) soil test before final placement. These tests are to be collected at the site, by Wallace Labs; analysis and recommendations made by Wallace Laboratories, 365 Coral Circle, El Segundo CA 90245, Ph. (310) 615-0116 Fax (310) 640-8863. Tests shall be submitted to the architect for approval before placing soils. Tests shall include the following:

- 1. Must include pH measurement in the Saturation Extract, Electro conductivity of the saturation extract and Sodium Adsorption Ratio of the saturation extract. The approved procedures are the following:

Table with 2 columns: Method 21, Method 2. Rows: PH, Saturation Extract, Sodium Adsorption Ratio.

Methods of the United States Salinity Laboratory as published in the Agricultural Handbook Number 60 entitled "Diagnosis and Improvement of Saline and Alkali Soils".

- 2. The following nutrients and elements must be determined with an approved extraction method. Interpretation data must be given citing concentrations, which are considered to be low, medium and high: boron, calcium, copper, iron, magnesium, manganese, molybdenum, phosphorus, potassium, sodium, sulfur, and zinc. The approved methods are those cited by the Council on Soil Testing and Plant Analysis and those methods currently used by soil scientists and agronomists and published in Communications in Soil Science and Plant Analysis: Soil Science and Soil Science Society of America Journal. Approved methods are Mellich Number 3, Bray Pt, Bray Pt2, Olsen P, DTPA, ammonium acetate, ammonium bicarbonate-DTPA, wid hot water extract for boron.
3. The saturated extract must be analyzed for calcium, magnesium, sodium, boron, chloride, nitrate, and sulfate.
4. The following trace metals must be measured by the DTPA extract: Aluminum, arsenic, cadmium, chromium, cobalt, lead, lithium, nickel, selenium, silver, strontium, tin and vanadium.
5. The presence of calcium carbonate and/or magnesium carbonate must be determined by commonly used methods.
6. Soil Texture and Organic Matter content may be estimated or determined by commonly used methods.
7. Interpretation of nutritional deficiencies or excesses and potential toxicities must be given.
8. If required, determine the following by methods approved by the American Society of Agronomy as published in the Methods of Soil Analysis, methods of the United States Salinity Laboratory as published in the Agricultural Handbook Number 60 entitled "Diagnosis and Improvement of Saline and Alkali Soils," and bulk density of clods by the method published in Soil Science, vol 165, 325-330 (1993):

- Exchangeable Ammonium cation
Base Saturation
Cation Exchange Capacity
Carbonates Determination
Soil Bulk Density (Compaction)
Sand, Silt and Clay determination
Water Infiltration Rate

Elemental determinations to be made according to methods approved by the EPA or by the American Society of Agronomy.

C. Possible sources of class A topsoil:

- 1. Excavations or grading of native topsoil from undeveloped areas.
2. Excavations or grading of topsoil from previously landscaped or formed areas.
3. Excavations or grading of topsoil from previously non-landscaped or non-farmed areas if the soil is thoroughly evaluated for potential toxic materials.
4. Soil supply companies supplying natural topsoil without excessive amending.
5. Manufacturing of topsoil with less desirable soil as long as the soil has matured and developed the characteristics of class topsoil.

D. Contractor Responsibilities.

- 1. Provide inspections, tests and similar quality control services as specified below. The contractor will pay cost for these services.
2. Employ and pay an independent agency to perform specified quality control services.
3. Owner will engage and pay for services of an independent agency to perform inspections and tests, which are not required by the specification.

- 4. Retest where results of required inspections, tests or similar services prove unsatisfactory workmanship and materials and do not indicate compliance with specifications regardless of whether the tests and services where not the responsibility of the contractor will be paid by the Contractor.

E. Owner Responsibility: Owner will provide and pay for inspections, tests and similar quality control services not specified.

F. Duties of Testing Agency.

- 1. Retest where results of required inspections, tests or similar services prove unsatisfactory workmanship and materials and do not indicate compliance with specifications regardless of whether the tests and services where not the responsibility of the contractor will be paid by the Contractor.
2. Independent testing agency engaged to perform inspections, sampling and testing of materials shall cooperate with architect and contractor in performance of its duties and shall provide qualified personnel to perform required inspections and tests.
3. Agency shall notify architect, owner and contractor promptly of irregularities or deficiencies observed in the work or materials during performance of its services.
4. Agency is not authorized to release, revoke, alter or enlarge requirements of specifications or approves or accepts any portion of work or materials.
5. Agency shall not perform any duties of contractor.

G. Submittals

- 1. Independent testing agency shall submit written report of each inspection, test or similar service to architect and owner unless contractor is responsible for service. If contractor is responsible for service, submit written report of each inspection, test or similar service through contractor.
2. Each source of topsoil shall be tested with representative submittal samples and at various depths. Soil shall be tested from the source site. There shall be a 1 (one) test from each source site. After delivery to site the soil shall again receive 1 (one) soil test before final placement. The owner reserves the right to test delivered materials at owner's expense. If any delivered materials fail to meet the specifications, the material will be promptly removed from the site at the contractor's expense. The contractor shall pay for the testing of any materials not meeting specifications.
2.05 Decomposed Granite Manufactures
A. Stabilizer for crushed stone surfaces provided by the following manufacturer:
1. Stabilizer Solutions, Inc. 205 South 28th St., Phoenix, AZ 85034; phone (602) 225-5900, (800) 336-2468; fax (602) 225-5902; website stabilizersolutions.com; email phubus@stabilizersolutions.com
2.06 Decomposed Granite Materials
A. Decomposed Granite or 3/8" or 1/4" crushed aggregate screenings
B. Crushed Stone Sieve Analysis Percentage of Weight Passing a Square Mesh Sieve AASHTO T11-62 and T27-82
1/4" MINUS AGGREGATE GRADATION

- C. Acceptable local supplier list to be provided by Architect
D. Stabilized Binder

- 1. Patented, non-toxic, organic binder that is a colorless and odorless concentrated powder that binds decomposed granite or crushed 3/8" or 1/4" minus aggregate
2.07 Excess Decomposed Granite Materials
A. Provide owner's authorized rep. With the following excess materials for use in future decomposed granite or 3/8" or 1/4" minus crushed aggregate paving repair: 40 to 50 lb. Bags of the aggregate paving blended with proper amount of Stabilizer.

Table with 4 columns: U.S. Sieve No., Percent Weight, Passing, by. Rows: # 3/8", # 4, # 8, # 16, # 30, # 50, # 100, # 200 to.

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Troller Mayer Associates, Inc
Landscape Architecture Planning Urban Design
1403 Kenneth Road, Suite B
Glendale, California 91201-1421
Ph:(818)956-8101 Fx:(818) 956-0120
E-mail: rmayer@trollermayer.com

Table with 3 columns: NO., REVISION DESCRIPTION, BY.

TETRA TECH
21700 Copley Drive, Suite 200
Diamond Bar, CA 91765
TEL 909.860.7777 FAX 909.860.8017

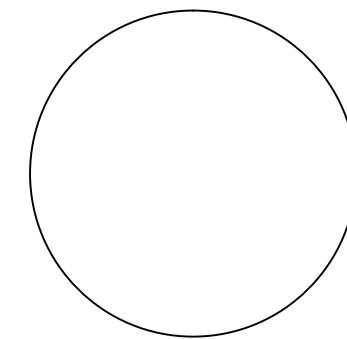


Table with project information: LA HABRA LANDFILL, VISTA GRANDE PARK, SPECIFICATIONS, DESIGNED BY: TMA, DRAWN BY: TMA, CHECKED BY: JM, APPROVED BY: RM, DATE: 01-25-2020, SCALE: AS SHOWN, SHEET 17 OF 20.

PROGRESS 50% CD SUBMITTAL (NOT FOR CONSTRUCTION)



SECTION 02970  
LANDSCAPE MAINTENANCE

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. Work Specified in this Section: Furnish all labor, material, equipment, and services required to maintain the landscape in an attractive condition as specified herein for a period of 90 calendar days.
- B. Related Work Specified in Other Sections:
  - 1. Section 02900: Landscaping
- C. Definition: The word Architect as used herein shall refer to the Landscape Architect or the Owner.

1.2 QUALITY ASSURANCE

- A. The Contractor's representatives and employees shall be experienced in landscape maintenance.

1.3 90 CALENDAR DAY MAINTENANCE PERIOD

- A. The Contractor shall continuously maintain all areas involved in this Contract during the progress of work. Maintenance period shall not start until all elements of construction, planting, and irrigation for the entire project are in accordance with Plans and specifications.
  - 1. A prime requirement is that groundcover areas shall have been planted and mulched.
  - 2. The Contractor's maintenance period will be extended if the provisions required within the Plans and specifications are not fulfilled. Project may not be segmented into maintenance phases.
  - 3. The Contractor shall request a Pre-Maintenance inspection by the Owner and Architect at the completion of the installation process.
  - 4. The Maintenance Period shall begin upon successful completion of the Pre-Maintenance walk-through punch list and acceptance of the landscape installation by the Owner.
  - 5. If such criteria are met to the satisfaction of the Owner, a field notification will be issued to the Contractor to establish the effective beginning date of the maintenance period.
- B. The Maintenance Period continues for 90 calendar days until final acceptance of the work by the Owner. Improper maintenance or poor condition of any planting at the termination of the scheduled maintenance period may cause postponement of the final completion date of the Contract.
- C. In order to carry out the plant maintenance work, the Contractor shall furnish sufficient people and adequate equipment to perform the work during the maintenance period.
- D. Any day when the Contractor fails to adequately maintain plantings, replace unsuitable plants or do weed control or other work, as determined necessary by the Owner, will not be credited as one of the maintenance period working days.

1.4 GUARANTEE AND REPLACEMENT

- A. Guarantee: All tree material installed under the contract shall be guaranteed for a period of one year. Any plant found to be dead or in poor condition due to faulty materials or workmanship, as determined solely by the Architect, shall be replaced by the Contractor at his expense.
  - 1. Replacement: Any materials found to be dead, missing, or in poor condition during the Maintenance period shall be replaced within two (2) days.
  - 2. The Architect shall be the sole judge as to the condition of material.
  - 3. The Contractor shall replace material rejected during the Guarantee period within fifteen (15) days of written notification by the Owner.

1.5 OBSERVATION VISITS

- A. The Contractor shall request progress visits from the Owner at least 48 hours in advance of anticipated visits. Normal observation visits are as follows:
  - 1. Immediately prior to the commencement of the work in this section.
  - 2. Completion of first 90 days of maintenance.
  - 3. Final acceptance.

1.6 FINAL ACCEPTANCE OF THE PROJECT

- A. Prior to the date of the final observation visit, the Contractor shall acquire from the Architect-approved reproducible Plans and record (from the job record set) all changes made during construction, label these Plans "Record Drawings" and deliver to the Architect for review and approval.
- B. Prior to the date of final inspection, the Contractor shall deliver to the Architect a written "Landscape and Irrigation Guarantee" as required herein.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. All materials used shall either conform to landscape specifications in other sections or shall otherwise be acceptable to the Owner.
- B. If requested by the Owner, the Owner shall be given a monthly record of all herbicides, insecticides, and disease control chemicals used. Failure to provide such a requested record will continue maintenance period until compliance occurs.

PART 3 - EXECUTION

3.1 MAINTENANCE

- A. Maintenance shall be performed according to the following standards:
  - 1. All areas shall be weeded and cultivated at intervals of not more than ten (10) days.
  - 2. Watering, edging, trimming, fertilization, spraying, and pest control, as may be required, shall be included in the maintenance period.
  - 3. Passive irrigation systems and planter reservoirs are to be checked and filled with water, if necessary.
  - 4. Cleaning of adjacent street gutters shall be included as part of maintenance.
  - 5. The Contractor shall be responsible for maintaining adequate protection of the area.
    - a. Damaged areas shall be repaired at the Contractor's expense.
- B. The Contractor shall be responsible for reporting to the Owner any conditions beyond his control that prevent or have negative impact on the work required herein.

3.2 TREE AND SHRUB CARE

- A. Watering
  - 1. Apply enough irrigation water so that moisture penetrates throughout root zone and only as frequently as necessary to maintain healthy growth.
    - a. It is not necessary to maintain soils in a constantly wet condition.
    - b. Contractor shall be responsible for familiarizing himself with the particular water requirements for the various plantings and shall be responsible for setting and maintaining the automatic controller to optimum minimum levels.
    - c. Any damage to the plantings caused by over-watering or under-watering shall be the responsibility of the Contractor to replace at no cost to Owner.
  - 2. Maintain a water basin around newly planted plants so that water can be applied to moisturize throughout the root zone. At the end of the maintenance period these basins shall be flattened out to match surrounding grades.
  - 3. If hand-watering, use a fan spray nozzle to break the water force.
- B. Staking and Guying: Stakes and guys shall remain in place until final acceptance and are to be continuously inspected and adjusted to prevent girdling of trunks or branches and to prevent rubbing that causes bark wounds and to allow trees to sway freely. Stakes and guys are to be removed when trees become sufficiently well rooted or after one year. When stakes or guys are removed, tree heads may be thinned to reduce wind load.
- C. Weed Control: Keep all areas, including basins and areas between plants, free of weeds.
  - 1. Use recommended legally approved herbicides only when mechanical removal methods are not feasible.
  - 2. Avoid frequent soil cultivation next to trees or shrubs that destroys shallow roots.
  - 3. Use mulches to help prevent weed seed germination.
- D. Insect and Disease Control: Maintain control of insect infestations. The preferred method of control shall be biological control, or with non-toxic, biodegradable, organic materials. If stronger materials are needed, only materials that are recommended by a licensed Pest Control Advisor and are EPA approved and regulated shall be used. Only registered and licensed Pest Control Operators shall apply insecticide or chemical applications. Notify Owner a minimum of five (5) working days before any chemical applications.
- E. Fertilization
  - 1. Fertilize all planting areas as follows:
    - a. Commencement of maintenance period - 10 lbs./1,000 sq. ft. with GroPower Plus.
    - b. At the end of the first 30-day maintenance period - 5 lbs./1000 sq. ft. with GroPower Plus.
    - c. At the end of the maintenance period and at 30-day intervals should maintenance period be extended - 10 lbs./1000 sq. ft. with GroPower Plus.
    - d. Avoid applying fertilizer to root balls and bases of main stems; rather, spread fertilizer evenly around plants to drip line. Distribute fertilizer evenly over turf or groundcover areas to avoid patchy coloration.
- F. Replacement of Plants: Replace dead, dying, and missing plants with plants of a size, condition, and variety acceptable to Architect or Owner at Contractor's expense.

3.3 GROUND COVER CARE

- A. Weed Control: Control weeds preferably with mechanical methods, and also with preemergent herbicides and selective systemic herbicides. Hoe weeds as little as possible since this may result in plant damage. Foot traffic in planted areas shall be minimized, and any soil compaction shall be loosened immediately.

- B. Watering: Water enough so that moisture penetrates throughout root zone and only as frequently as necessary to maintain healthy growth.
  - 1. It is not necessary to maintain soils in a constantly wet condition.
  - 2. Contractor shall familiarize himself with the particular water requirements for the planting and shall be responsible for setting and maintaining the automatic controller to optimum minimum levels.
  - 3. Any damage to the planting caused by over-watering or under-watering shall be the responsibility of the Contractor to replace.
- C. Trash: Remove trash weekly. Remove any debris, clippings or branches produced by maintenance activities within 8 hours.
- D. Edging and Trimming: Edge ground cover to keep in bounds and trim top growth as necessary to achieve an overall even appearance.
- E. Replacement: Replace dead and missing plants at Contractor's expense.

3.4 IRRIGATION SYSTEM

- A. System Inspection: Contractor shall continuously check all systems for proper operation. Lateral lines shall be flushed out after removing the last sprinkler head or two at each of the lateral. All heads are to be continuously adjusted as necessary for proper coverage and to eliminate over-spray on buildings or paving. Contractors regular maintenance personnel shall test, observe, and adjust each sprinkler system no less than once per month.
- B. Controllers: Set and program automatic controllers for seasonal water requirements and minimum optimum water use. Give Owner a key to controllers and instructions on how to turn off system in case of emergency.
- C. Repairs: Repair all damage to irrigation system at Contractor's expense. Repairs shall be made within one watering period.

END OF SECTION

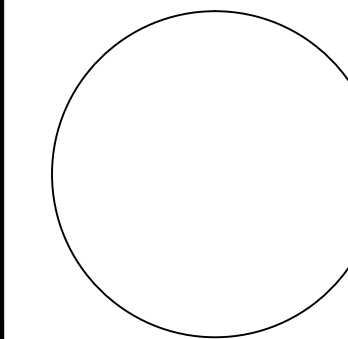
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**Troller Mayer Associates, Inc**  
Landscape Architecture Planning Urban Design

1403 Kenneth Road, Suite B  
Glendale, California 91201-1421  
Ph: (818) 956-8101 Fax: (818) 956-0120  
E-mail: rmayer@trollermayer.com

NO.	REVISION DESCRIPTION	BY:

**TT TETRA TECH**  
21700 Copley Drive, Suite 200  
Diamond Bar, CA 91765  
TEL 909.860.7777 FAX 909.860.8017



LA HABRA LANDFILL			
VISTA GRANDE PARK			
<b>SPECIFICATIONS</b>			
DESIGNED BY :	TMA	DATE :	01-25-2020
DRAWN BY :	TMA	SCALE :	AS SHOWN
CHECKED BY :	JM	DATE :	
APPROVED BY :	RM	DATE :	
<b>L-503</b>			SHEET 19 OF 20

PROGRESS 50% CD SUBMITTAL (NOT FOR CONSTRUCTION)

