



**WESTLAKE VILLAGE**

Public Works Dept.  
Fax (805) 643-0791  
(805) 653-6597

31200 Oak Crest Drive  
Westlake Village, CA 91361  
Fax (818) 706-1391  
(818) 706-1613

TO: **BIDDER'S LIST**

DATE: November 18, 2016

FAX: (818) 706-1391

FROM: Beau Thompson

SUBJECT: **Addendum No. 1 - City of Westlake Village Community Park Project – Phase IIB – Landscape and Irrigation**

Enclosed is Addendum No. 1 for the City of Westlake Village Community Park Project – Phase IIB – Landscape and Irrigation. This email is the only copy being sent out.

The City appreciates your time in providing a bid on this project.

If you have any problems with this transmission, please contact Jessica Arden 805-220-3561.

**NOTE: THE BID OPENING DATE HAS BEEN MOVED TO NOVEMBER 30<sup>th</sup> at 10am**

The following additions and/or corrections shall become a part of the Contract Documents and Specifications for the above-named project. **ALL PROPOSERS SHALL ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON PAGE C-3A OF THEIR BID.**

1. The following documents are attached hereto and are hereby added to the Contract Documents as part of Addendum No. 1:
  - a. Job Walk Sign in Sheet (Note: Only the firms present at Job Walk will be allowed to bid on this project)
  - b. Revised Bid Schedule and Measurement and Payment Sections (Pages C-5 to C-23 of the specs are being replaced by C-5A to C-23A attached)
  - c. Revised Section 02791 of Project Specs - Special Provisions
  - d. Project Plan Sheet SD-1
  - e. As-Built Survey of Soccer Field and Baseball Field #1 (For Reference Only)
  - f. Plan Holders List
  - g. Phase 2A Plans (For Utility Reference Only)

2. Job Walk RFI's

a. Question: What is the engineer's estimate?

Answer: \$2,100,000 (Base Bid + Bid Alternates)

3. Bid Period RFI's

No questions were received regarding this bid

4. Clarifications

No clarifications are being made at this time

By: \_\_\_\_\_

John Knipe, P.E.  
City Engineer



# JOB WALK SIGN IN SHEET

## JOB WALK SIGN-IN SHEET

**PROJECT:** WESTLAKE VILLAGE COMMUNITY PARK – PHASE 2B –Landscape and Irrigation/Park Improvementsp

**CITY:** Westlake Village

**LOCATION:** 31105 Thousand Oaks Blvd, Westlake Village, CA

**DATE:** November 4, 2016

**TIME:** 10:00 AM

Name	Organization	Email Address	Telephone No.
John Knipe	City of Westlake Village	<a href="mailto:john@wlv.org">john@wlv.org</a>	818-706-1613
Dave Kelly	City of Westlake Village	<a href="mailto:dave@wlv.org">dave@wlv.org</a>	818-266-2553
Beau Thompson	Willdan Engineering	<a href="mailto:bthompson@willdan.com">bthompson@willdan.com</a>	805-804-7642
Jessica Arden	Willdan Engineering	<a href="mailto:jarden@willdan.com">jarden@willdan.com</a>	
Chalabira Mubarak	GMZ ENGINEERING	<a href="mailto:gmubarak@gmzeng.com">gmubarak@gmzeng.com</a>	(909) 714-9779
Joseph Honggood	Los Angeles Engineering Inc	<a href="mailto:joseph@laeng.net">joseph@laeng.net</a>	(626) 454 5222
Sam Naguib	Monet construction, Inc	<a href="mailto:Sam@monetinc.net">Sam@monetinc.net</a>	(818) 830-7306
JEFF EVANS	JEC, INC (Prime)	Jeff E <a href="mailto:JEVANS@construction.com">JEVANS@construction.com</a>	(818) 458-2334
Richard Gonzalez	CS Legacy Construction	<a href="mailto:richard@cslegacy.net">richard@cslegacy.net</a>	951-963-4268
Jake Hunsaker	HH Construction	<a href="mailto:Jhunsaker@roadrunner.com">Jhunsaker@roadrunner.com</a>	(805) 583-3907
Hamid Mirzaee	Y. KO Construction	<a href="mailto:ykoinc@gmail.com">ykoinc@gmail.com</a>	(818) 884 8490
Rick Nelson	A BATES GC	<a href="mailto:ABATESGC@YAHOO.COM">ABATES GC@YAHOO.COM</a>	818 619 5311
John Teyon	Hellas Construction	<a href="mailto:JTR400@hellasconstruction.com">JTR400@hellasconstruction.com</a>	760-445-5179

Name	Organization	Email Address	Telephone No.
ALAN SAFAEI	ENVIRONMENTAL CONSTRUCTION, INC	ESTIMATING@ENVIRONCON.COM	818-449-8920
ED BOCTOR	MORILLO CONST	TERRICOR@MORILLOCONSTRUCTION.COM	626 796 3800
Michael Michael	Aghap Group Inc	mmichael@agc7.com	(562) 900-2936
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CHAD BENTON	BRIGHTVIEW LANDSCAPE	DEV. chad.benton@brightview.com	916-612-9001
INDIKA JAYARATNA	UNITED CONST. & LAND	nelli@ucmland.net	7818-988-9706 P 8189889707
Chase Jaynes	Jaynes Brothers Construction	Chase@Jaynesbrothers.com	805-797-0472
Aren Hovanessian	Parsam Const, Inc.	aren@parsamcorp.com	818-236-3633 818-236-3634 Fax
Ruzmika Hovanessian	ARC Construction, Inc	info@arcconstructioncorp.com	818-249-0703 (818) 82-1003 Cell
Jack Adams	Hellas Construction	JADAMS@hellasconstruction.com	512-785-9516
JOSHUA GRAY	GRAY ELECTRIC	JOSHUAGRAYELECTRIC@HOTMAIL.COM	(818) 657-9877
<del>JOSHUA GRAY</del> <del>KEVIN CARROLL</del>	UNLIMITED ENGINEERING	UNLIMITEDENGINEERING@YAHOO.COM	(818) 652-6922
MICHAEL HOBART	West Coast Netting	westcoastnetting@gmail.com	310 415 6769

REVISED BID SCHEDULE /  
MEASUREMENT AND PAYMENT  
SECTIONS

**SCHEDULE OF WORK AND UNIT PRICES  
FOR  
WESTLAKE VILLAGE COMMUNITY PARK –  
PHASE IIB – LANDSCAPE & IRRIGATION  
BASE BID**

<b>ITEM No.</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>UNIT PRICE</b>	<b>TOTAL BID PRICE</b>
1	Mobilization (General Conditions and Provisions)	LS	1	N/A	
2	Water Connections to Irrigation Mainline	LS	1	N/A	
3	Export of Miscellaneous Spoils	CY	35		
4	Purchase Split Rail Fencing	LF	3,300		
5	Install Split Rail Fencing	LF	3,300		
6	Purchase and Install Vehicle Bar Gate at Baseball Field #1	LS	1	N/A	
7	Concrete Edging for Split Rail Fencing	LF	3,000		
8	Decomposed Granite Trail	SF	30,000		
9	6" Concrete Edging for Decomposed Granite Trail and Planting Areas	LF	2,600		
10	Install Owner Furnished Park Benches for Pedestrian Pathway	EA	14		
11	Install Owner Furnished Trash Receptacle for Pedestrian Pathway	EA	7		
12	Purchase and Install Drinking Fountain at Baseball Field #1 Trail	EA	1		
13	Purchase and Install Drinking Fountain at Soccer Field Trail	EA	1		
14	Entry Monument Sign	LS	1	N/A	
15	Install Owner Furnished Tot Lot #2 Play Equipment	LS	1	N/A	

Addendum No 1

<b>ITEM No.</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>UNIT PRICE</b>	<b>TOTAL BID PRICE</b>
16	Tot Lot #2 Rubber Surfacing	SF	1,800		
17	Tot Lot #2 CMU Entry Wall and Decorative Entry Seat	LF	40		
18	6" Concrete Mowcurb at Tot Lot #2	LF	85		
19	Purchase Tot Lot #2 Fencing	LF	85		
20	Install Tot Lot #2 Fencing	LF	85		
21	Tot Lot #2 Signage	LS	1		
22	<b>BID ITEM DELETED</b>				
23	Tot Lot #2 Seat Wall	LS	1	N/A	
24	Tot Lot #2 Play Area Sumps	LS	1	N/A	
25	Spilt Rail Fence at Skate Park Access Road	LF	100		
26	Concrete Curb at Skate Park Access Road	LF	310		
27	Install Owner Furnished Picnic Table at Skate Park	EA	2		
28	6" Concrete Mowcurb at East Edge of Baseball Field #3	LF	150		
29	Directional Signage	EA	1		
30	Trailhead Construction	LS	1	N/A	
31	General Irrigation	LS	1	N/A	

Addendum No 1

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL BID PRICE
32	General Sleeving Under Hardscape	LS	1	N/A	
33	Tree Plantings	LS	1	N/A	
34	Shrub Plantings	LS	1	N/A	
35	Install Owner Furnished Tree Grates	EA	9		
36	Install Owner-Furnished Bike Rack at One Acre Park Area	EA	1		
37	Groundcover, Mulch, Amendments, Fertilizers	LS	1	N/A	
38	Turf (Hydroseed) at One Acre Park Area	SF	26,090		
39	Plant Establishment Period (6 Months)	LS	1	N/A	
40	Release of Contract	LS	1	N/A	\$1.00
TOTAL BASE BID =		\$ _____ (Figure)			

**BID ALTERNATE**

<b>ITEM No.</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>UNIT PRICE</b>	<b>TOTAL BID PRICE</b>
1	Tot Lot #1 Signage	LS	1	N/A	
2	Tot Lot #1 Entry Feature	LS	1	N/A	
3	Tot Lot #1 Rubber Surfacing	SF	4,250		
4	Tot Lot #1 Concrete Paving	SF	1,200		
5	Tot Lot #1 Sand Play Area	SF	165		
6	12" Concrete Mowcurb at Tot Lot #1	LF	260		
7	Tot Lot #1 Drainage Sumps Under Play Equipment	LS	1	N/A	
8	Install Owner Furnished Tot Lot #1 Rock Boulders	LS	1	N/A	
9	<b>BID ITEM DELETE</b>				
10	Install Owner Furnished Tot Lot #1 Playground Equipment	LS	1	N/A	
11	Install Owner Furnished Tot Lot #1 Park Benches	EA	9		
12	Install Owner Furnished Tot Lot #1 Trash Receptacles	EA	3		
13	Purchase Tot Lot #1 Fencing	LF	130		
14	Install Tot Lot #1 Fencing	LF	130		

Addendum No 1

<b>ITEM No.</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>UNIT PRICE</b>	<b>TOTAL BID PRICE</b>
15	Concrete Paving Picnic Area at 1 Acre Park Area	SF	630		
16	Install Owner Furnished Picnic Table for Picnic Area	EA	7		
17	Install Owner Furnished Trash Receptacle at Picnic Area	EA	2		
18	Fitness Area Rubber Surfacing	SF	2,506		
19	6" Concrete Mowcurb at Fitness Area	LF	181		
20	Purchase and Install Drinking Fountain at Fitness Area	EA	1		
21	Concrete Paving at Fitness Area	SF	50		
22	Install Owner Furnished Trash Receptacles at Fitness Area	EA	1		
23	Fitness Area Signage	LS	1	N/A	
24	Install Owner Furnished Fitness Equipment at Fitness Area	LS	1	N/A	
25	Purchase and Install Plop Bench at Fitness Area	EA	3		
26	4" Thick Concrete Paving at One Acre Park Area	SF	1,200		

Addendum No 1

ITEM No.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL BID PRICE
27	6" Thick Concrete Paving at One Acre Park Area	SF	530		
28	Volleyball Court	LS	1	N/A	
29	Credit to City for Replacing Hydroseed Area with Volleyball Court	SF	6,600	( )	( )
30	6" Storm Drain Extension at One Acre Park Area	LS	1		
TOTAL BID ALTERNATE=		\$ _____ (Figure)			

TOTAL AMOUNT BID (BASE BID TOTAL + BID ALTERNATE TOTAL)	\$ _____ (Figure)
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TOTAL AMOUNT BID (IN WRITING):

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Contractor's Name:

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**THE TOTAL AMOUNT BID ABOVE IS SUBJECT TO THE FOLLOWING:**

1. The award of contract, if made, will be to the lowest responsive and responsible bidder based on the lowest Total Amount Bid which shall include both Base Bid and Bid Alternate.
2. The Total Amount Bid shall include all work shown on the plans and requirements contained in the specifications.
3. **Contractor's shall understand that the Job Walk is Mandatory and only those whom attend will be considered qualified for bidding this project. Qualified personnel from the Contractor's staff shall attend job walk. Qualified staff include: Owner, Project Supervisor, Project Manager, Head Estimator.**
4. Contractor is expected to independently determine all work to be done and to verify any quantities stated herein and to submit a bid based on Contractor's own independent calculation and review of the contract plans. The City shall not be responsible for nor will it agree to any increase or additional sums for any miscalculation in the quantity of materials by the contractor required to complete all aspects of the construction called for in the plans and specifications.
5. The City retains the sole discretion on choice of which bid items(s) from both Base Bid and Bid Alternate Bid Items to construct. The City makes no guarantee or assurances as to the amount of work this contract will entail.
6. **Note: all unit costs/lump sums shall include prevailing wage rates.**
7. Contractor shall be required prior to release of retention to provide
  - a. final releases from all vendors, suppliers and subcontractors
  - b. certified payroll records for all prime and subcontractor employees
8. The Schedule of Work and Prices shall be used for Progress Payment purposes only.
9. Measurement and Payment sections for all bid items within Bid Schedule can be found starting on page C-12A.

**MEASUREMENT AND PAYMENT  
FOR  
WESTLAKE VILLAGE COMMUNITY PARK –  
PHASE IIB – LANDSCAPE & IRRIGATION  
BASE BID**

**BID ITEM NO 1:** Mobilization shall consist of preparatory work and operations, including, but not limited to: insurance, bonds, required permits and fees, shop drawings, submittals, the movement of personnel, equipment, supplies, and incidentals to the project site (mobilization), as-built plans, coordination with other contractors, meetings, moving off the project, clean up, removal of spoils, and the establishment of any temporary facilities. Temporary stockpiling of export materials is subject to City approval. **Measurement and Payment for Mobilization** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete mobilization in accordance with the Contract Documents, and no additional compensation will be allowed therefor. Progress payments for Mobilization will be the lesser amount from columns B and C of Table A - Bid Item #1 as follows:

**Table A – Bid Item #1**

IF A IS	B AMOUNT IS	C AMOUNT IS
05	0.2 x Mobilization Bid Item	0.02 x CONTRACT PRICE
10	0.4 x Mobilization Bid Item	0.04 x CONTRACT PRICE
20	0.5 x Mobilization Bid Item	0.05 x CONTRACT PRICE
50	0.7 x Mobilization Bid Item	0.07 x CONTRACT PRICE
70	0.8 x Mobilization Bid Item	0.08 x CONTRACT PRICE
90	0.9 x Mobilization Bid Item	0.09 x CONTRACT PRICE
100% OR MORE	1.0 x Mobilization Bid Item	0.10 x CONTRACT PRICE

Notes:

1. A is the monthly pay estimate as a % of the original Contract Price not including amount earned for mobilization, bonds, and permits.
2. One hundred percent or more of the original Contract Price and final cleanup operations have been satisfactorily completed.

The total amount of mobilization shall not exceed 10% of the original Contract Price.

**BID ITEM NO 2: Measurement and Payment for Water Connections to Irrigation Mainline** shall be at the lump sum price bid and shall include, but not limited to, all labor,

materials, equipment, and incidentals required to complete all connections to mainline for use of irrigation system, and all items necessary to be a fully functional system complete in place and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 3: Measurement and Payment for Export of Miscellaneous Spoils** shall be at the price bid per cubic yard and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the export of all miscellaneous spoils located throughout the entire project area that may be designated by the City Engineer to be removed including disposal to an approved offsite location, and all items necessary to be complete in place and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 4: Measurement and Payment for Purchase Split Rail Fencing** shall be at the price bid per linear foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the purchase of all split rail fencing and material needed to install the fencing and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 5: Measurement and Payment for Install Split Rail Fencing** shall be at the price bid per linear foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of all split rail fencing (including footings, wire mesh, posts, rails) with all items necessary to be a fully functional system complete in place and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 6: Measurement and Payment for Purchase and Install Vehicle Bar Gate at Baseball Field #1** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the purchase and installation of vehicle bar gate complete with connections, footings, locking plate, and all items necessary to be complete in place in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 7: Measurement and Payment for Concrete Edging for Split Rail Fencing** shall be at the price bid per linear foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of concrete edging including staking, excavation, forming, pouring, and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 8: Measurement and Payment for Decomposed Granite Trail** shall be at the price bid per square foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of the decomposed granite trail (including fine grading, site preparation, placing material, compaction) with all items necessary to be a fully functional system complete in place and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 9: Measurement and Payment for 6” Concrete Edging for Decomposed Granite Trail and Planting Area** shall be at the price bid per linear foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of concrete edging including staking, excavation, forming, pouring, and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 10: Measurement and Payment for Install Owner Furnished Park Benches for Pedestrian Pathway** shall be at the price bid per each and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of City furnished park benches at various locations adjacent to the decomposed granite walking trail and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 11: Measurement and Payment for Install Owner Furnished Trash Receptacle for Pedestrian Pathway** shall be at the price bid per each and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of City furnished trash receptacles at various locations adjacent to the decomposed granite walking trail and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 12: Measurement and Payment for Purchase and Install Drinking Fountain at Baseball Field #1 Trail** shall be at the price bid per each and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the purchase and installation of drinking fountain at the location adjacent of the decomposed walking trail next to Baseball Field #1 (including waterline connection, drain pipe, filter cloth, sand trap) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 13: Measurement and Payment for Purchase and Install Drinking Fountain at Soccer Field Trail** shall be at the price bid per each and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the purchase and installation of drinking fountain at the location adjacent of the decomposed walking trail next to the Soccer Field (including waterline connection, drain pipe, filter cloth, sand trap) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 14: Measurement and Payment for Entry Monument Sign** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of the entry monument (including excavation, staking, compaction, footing, form and pour, brick veneer, wire mesh, sign lettering, brushed steel wings, pedestal) and for a fully functional system in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 15: Measurement and Payment for Install Owner Furnished Tot Lot #2 Play Equipment** shall be at the lump sum price bid and shall include, but not limited to,

all labor, materials, equipment, and incidentals required to complete the installation of City furnished play equipment at tot lot #2 and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 16: Measurement and Payment for Tot Lot #2 Rubber Surfacing** shall be at the price bid per square foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation rubber surfacing at tot lot #2 (including excavation, re-compaction, fine grading, base placement, base mat, and wearing course per manufacturers specs) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 17: Measurement and Payment for Tot Lot #2 CMU Entry Wall and Decorative Entry Seat** shall be at the price bid per linear foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of the tot lot entry wall (including excavation, staking, compaction, footing, form and pour, reinforcement, brick veneer, wire mesh, CMU block, entry seat) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 18: Measurement and Payment for 6” Concrete Mowcurb at Tot Lot #2** shall be at the price bid per linear foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of concrete edging including staking, excavation, forming, pouring, and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 19: Measurement and Payment for Purchase Tot Lot #2 Fencing** shall be at the price bid per linear foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the purchase of all tot lot #2 decorative fencing and material needed to install the fencing and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 20: Measurement and Payment for Install Tot Lot #2 Fencing** shall be at the price bid per linear foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of all tot lot #2 decorative fencing (including footings, welded wire, posts, rails) with all items necessary to be a fully functional system complete in place and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 21: Measurement and Payment for Tot Lot #2 Signage** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the purchase and installation of all tot lot #2 signage and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 22: Bid Item Deleted in its entirety – No Work – No Payment shall be requested by nor made to the contractor.**

**BID ITEM NO 23: Measurement and Payment for Tot Lot #2 Seat Wall** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of the decorative seat wall at tot lot #2 (including excavation, re-compaction, reinforcement, sandblast finish, color hardener) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 24: Measurement and Payment for Tot Lot #2 Play Area Sumps** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of all play area sumps at tot lot #2 (including excavation, re-compaction, PVC drainpipe, filter fabric, concrete valve box, connection to drain line, cast iron grate, reinforcement) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 25: Measurement and Payment for Split Rail Fencing at Skate Park Access Road** shall be at the price bid per linear foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the purchase and installation of all split rail fencing at skate park access road (including footings, wire mesh, posts, rails) with all items necessary to be a fully functional system complete in place and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 26: Measurement and Payment for Concrete Curb at Skate Park Access Road** shall be at the price bid per linear foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of concrete curb including staking, excavation, forming, pouring, and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 27: Measurement and Payment for Install Owner Furnished Picnic Table at Skate Park** shall be at the price bid per each and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of City furnished picnic tables at skate park and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 28: Measurement and Payment for 6" Concrete Mowcurb at East Edge of Baseball Field #3** shall be at the price bid per linear foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of concrete mowcurb including staking, excavation, forming, pouring, and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 29: Measurement and Payment for Directional Signage** shall be at the price bid per each and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the purchase and installation directional signage at

the southeast corner of Baseball Field #3 and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 30: Measurement and Payment for Trailhead Construction** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the (including fine grading, site preparation, DG trail, split rail fence, wood steps, placement of boulders, installation of owner furnished bench and trash receptacle, connection to existing trail) with all items necessary to be a fully functional system complete in place and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 31: Measurement and Payment for General Irrigation** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of irrigation lines as shown on the project plans (including excavation, compaction, POC, heads, valves, pipes, fittings, wires, controllers) with all items necessary to be a fully functional system complete in place and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 32: Measurement and Payment for General Sleeving Under Hardscape** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete all general sleeving under hardscape of irrigation lines with all items necessary to be a fully functional system complete in place and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 33: Measurement and Payment for Tree Plantings** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete all tree plantings as shown on the project plans with all items necessary to be a fully functional system complete in place and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 34 : Measurement and Payment for Shrub Plantings** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete all shrub plantings as shown on the project plans with all items necessary to be a fully functional system complete in place and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 35: Measurement and Payment for Install Owner Furnished Tree Grates** shall be at the price bid per each and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of City furnished tree grates throughout the one-acre park area and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 36: Measurement and Payment for Install Owner Furnished Bike Rack at One Acre Park Area** shall be at the price bid per each and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of City furnished bike rack at one-acre park area and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 37: Measurement and Payment for Groundcover, Mulch, Amendments, Fertilizers** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete all groundcover, mulch, amendments, and fertilizers as shown on the project plans with all items necessary to be a fully functional system complete in place and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 38: Measurement and Payment for Turf (Hydroseed) at One Acre Park Area** shall be at the price bid per square foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete all turf installation within the one-acre park area (including grading, compaction, placement, connections to concrete edging) with all items necessary to be a fully functional system complete in place and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ITEM NO 39: Measurement and Payment for Plant Establishment Period (6 Months)** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to ensure all plants, shrubs, and trees establish properly where planted and any that fail through this establishment period shall be replaced and established appropriately with all items necessary to be a fully functional system complete in place and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**MEASUREMENT AND PAYMENT  
FOR  
WESTLAKE VILLAGE COMMUNITY PARK –  
PHASE IIB – LANDSCAPE & IRRIGATION  
BID ALTERNATE**

**BID ALTERNATE ITEM NO 1: Measurement and Payment for Tot Lot #1 Signage** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the purchase and installation of all tot lot #1 signage and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 2: Measurement and Payment for Tot Lot #1 Entry Feature** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of the tot lot entry wall (including excavation, staking, compaction, footing, form and pour, reinforcement, steel posts and beams, flagstone paving, wire cloth/metal panels) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 3: Measurement and Payment for Tot Lot #1 Rubber Surfacing** shall be at the price bid per square foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation rubber surfacing at tot lot #1 (including excavation, re-compaction, base placement, fine grading, base mat, and wearing course) per manufacturers specs and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 5: Measurement and Payment for Tot Lot #1 Sand Play Area** shall be at the price bid per square foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of sand play area within the limits of tot lot #1 (including staking, excavation, fine grading, placement of sand) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 6: Measurement and Payment for 12” Concrete Mowcurb at Tot Lot #1** shall be at the price bid per linear foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of concrete mowcurb within the limits of tot lot #1 (including staking, excavation, forming, pouring) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 7: Measurement and Payment for Tot Lot #1 Drainage Sumps Under Play Equipment** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of all play area sumps at tot lot #1 (including excavation, re-compaction, PVC drainpipe, filter fabric, concrete valve box, connection to drain line, cast iron grate,

reinforcement) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 8: Measurement and Payment for Install Owner Furnished Tot Lot #1 Rock Boulders** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of City furnished rock boulders at tot lot #1 and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 9: Bid Item Deleted in its entirety – No Work – No Payment shall be requested by nor made to the contractor.**

**BID ALTERNATE ITEM NO 10: Measurement and Payment for Install Owner Furnished Tot Lot #1 Play Equipment** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of City furnished play equipment at tot lot #1 and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 11: Measurement and Payment for Install Owner Furnished Tot Lot #1 Park Benches** shall be at the price bid per each and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of City furnished park benches at tot lot #1 and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 12: Measurement and Payment for Install Owner Furnished Tot Lot #1 Trash Receptacles** shall be at the price bid per each and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of City furnished trash receptacles at tot lot #1 and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 13: Measurement and Payment for Purchase Tot Lot #1 Fencing** shall be at the price bid per linear foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the purchase of all tot lot #1 fencing and material needed to install the fencing and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 14: Measurement and Payment for Install Tot Lot #1 Fencing** shall be at the price bid per linear foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of all tot lot #1 fencing (including footings, posts, caps) with all items necessary to be a fully functional system complete in place and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 15: Measurement and Payment for Concrete Paving Picnic Area at One Acre Park Area** shall be at the price bid per square foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of concrete paving within the limits of picnic area at the north east corner of baseball field #3 (including staking, excavation, fine grading, forming, pouring) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 16: Measurement and Payment for Install Owner Furnished Picnic Tables for Picnic Area** shall be at the price bid per each and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of City furnished picnic tables at picnic area at the northeast corner of baseball field #3 and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 17: Measurement and Payment for Install Owner Furnished Trash Receptacles at Picnic Area** shall be at the price bid per each and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of City furnished trash receptacles at picnic area at the northeast corner of baseball field #3 and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 18: Measurement and Payment for Fitness Area Rubber Surfacing** shall be at the price bid per square foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation rubber surfacing at fitness area (including excavation, re-compaction, fine grading, base placement, asphalt base, rubberized surface) per manufacturers specs and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 19: Measurement and Payment for 6" Concrete Mowcurb at Fitness Area** shall be at the price bid per linear foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of concrete mowcurb within the limits of the fitness area (including staking, excavation, forming, pouring) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 20: Measurement and Payment for Purchase and Install Drinking Fountain at Fitness Area** shall be at the price bid per each and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the purchase and installation of drinking fountain at the fitness area (including waterline connection, drain pipe, filter cloth, sand trap) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 21: Measurement and Payment for Concrete Paving at Fitness Area** shall be at the price bid per square foot and shall include, but not limited to,

all labor, materials, equipment, and incidentals required to complete the construction of concrete paving within the limits of fitness area (including staking, excavation, fine grading, forming, pouring) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 22: Measurement and Payment for Install Owner Furnished Trash Receptacles at Fitness Area** shall be at the price bid per each and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of City furnished trash receptacles at fitness area and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 23: Measurement and Payment for Fitness Area Signage** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the purchase and installation of all fitness area signage and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 24: Measurement and Payment for Install Owner Furnished Fitness Equipment at Fitness Area** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of City furnished fitness equipment at fitness area and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 25: Measurement and Payment for Purchase and Install Plop Bench at Fitness Area** shall be at the price bid per each and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the purchase and installation of plop bench at the fitness area (including excavation, re-compaction, footing, install) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 26: Measurement and Payment for 4" Thick Concrete Paving at One Acre Park Area** shall be at the price bid per square foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of concrete paving within the limits of one acre park area just south of the proposed volleyball court (including staking, excavation, fine grading, forming, pouring) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 27: Measurement and Payment for 6" Thick Concrete Paving at One Acre Park Area** shall be at the price bid per square foot and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the construction of concrete paving within the limits of one acre park area just south of the proposed volleyball court (including staking, excavation, fine grading, forming, pouring)

and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 28: Measurement and Payment for Volleyball Court** shall be at the lump sum price bid and shall include, but not limited to, all labor, purchase and installation of all equipment, and incidentals required to complete the construction of volleyball court (including staking, excavation, fine grading, concrete mowcurb, placement of beach sand, volleyball nets and poles, volleyball court edging, extending and relocating drain line, installation, connection and bedding of perforated pipe) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

**BID ALTERNATE ITEM NO 29: Measurement and Payment for Credit to City for Replacing Hydroseed Area with Volleyball Court** shall be at the price bid per SF and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the installation of the turf within the volleyball court area. This credit will be for removing the turf from the contract since it will be replaced with the volleyball court, if the City decides to build Bid Alternate No 28.

**BID ALTERNATE ITEM NO 30: Measurement and Payment for 6" Storm Drain Extension at One Acre Park Area** shall be at the lump sum price bid and shall include, but not limited to, all labor, materials, equipment, and incidentals required to complete the purchase and installation of storm drain and area grate at the location called out within the one acre park area (including potholing, excavation, re-compaction, storm drain connection, installation of about 35' of 6" HDPE pipe, 12" x 12" NDS 1230 area grate with 4" PVC riser, and grading surrounding areas to drain to area grate) and be in accordance with the Contract Documents, and no additional compensation will be allowed therefor.

REVISED SECTION 02791-  
PLAYGROUND SAFETY SURFACES  
OF PROJECT SPECS –  
SPECIAL PROVISIONS

SECTION 02791  
PLAYGROUND SAFETY SURFACING

## PART 1 – GENERAL

## 1.1 SCOPE

- a. Provide and install poured-in-place synthetic safety surfacing as shown and specified for playground surfaces.

## 1.2 RELATED SECTIONS

- a. Section 02750 – Concrete Paving
- b. Section 02880 – Playground
- c. Section 03300 – Cast-in-Place Concrete

## 1.3 REFERENCES

The publications listed below form a part of this Specification to the extent referenced. The publications are referred to in the text by basic designation only.

- a. American Society for Testing and Materials (ASTM)
  - ASTMC136 Sieve Analysis of Fine and Coarse Aggregates
  - ASTM D412 Standard Test Method Vulcanized Rubber and Thermal Plastic Rubbers and Thermal Plastic Elastomers – Tension
  - ASTM D624 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers
  - ASTM D1682 Breaking Load and Elongation of Textile Fabrics
  - ASTM D2047 Standard Test Method for Static coefficient of Friction of Polish – Coated Floor Surfaces as Measured by the James Machine
  - ASTM D2240 Rubber Property—Durometer Hardness
  - ASTM D2859 Standard Test Method for Flammability of Finished Textile Floor Covering Materials
  - ASTM E303 Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester
  - ASTM F1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment
  - ASTM F1951 Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment
  - ASTM D3776 Mass per Unit Area (Weight) of Woven Fabric
  - ASTM D4491 Water Permeability of Textiles by Permeability
  - ASTMD 4533 Trapezoid Tearing Strength of Geotextiles
  - ASTMD 4632 Grab Breaking Load and Elongation of Geotextiles
  - ASTM D 5199 (Measuring Nominal Thickness of Geotextiles and Geomembranes
  - ASTM F 1292 (1995) Impact Attenuation of Surface Systems Under and Around Playground Equipment
  - ASTM F 1487 (1995) Playground Equipment for Public Use
- b. Code of Federal Regulations (CFR)
  - CFR 28 Part 36 (1991) Nondiscrimination on the Basis of Disability by Public Accommodations and in Commercial Facilities, Final Rule

- c. U.S. Consumer Product Safety Commission (CPSC)

CPSC (1991) Handbook for Public Playground Safety, U.S. Consumer Product Safety Commission, Washington, D.C. 20207, 301-504-0494

#### 1.4 PERFORMANCE REQUIREMENTS

- A. Safety

Safety surfacing within playground equipment use zones shall meet or exceed the performance requirements of CPSC and ASTM F 1292 that a surface yield both a peak deceleration of no more than 200g, and a Head Injury Criteria (HIC) value of no more than 1,000g, for a head-first fall from the highest accessible portion of play equipment being installed. The highest accessible portion of playground equipment shall be as specified in Section 02880 Playground Equipment.

The Contractor is responsible for obtaining a determination (Certificate of Compliance) from the safety surfacing manufacturer of the product depth required to meet performance requirements for all play equipment.

For the existing equipment play area, the contractor is responsible for contacting the existing play equipment manufacturer to determine the depth of the synthetic safety surfacing required to meet all requirements cited above.

- B. Accessibility

Safety surfaces intended to serve as accessible paths of travel for persons with disabilities shall be firm, stable and slip resistant and shall meet the requirements of FEDSTD 795, 28 CFR Part 36 ASTM F 1487, 1292.

#### 1.5 SUBMITTALS

For synthetic safety surface:

- a. Submit supplier's descriptive data and installation instructions, including cleaning and preventive maintenance instructions.
- b. Submit shop drawings showing depth of the safety surfacing system, including depths of material, sub-base materials, hardware, and drainage.
- c. Submit a list of materials and components to be installed as part of the system, by weight and/or volume and recommended coverage, including manufacturer's name, shipment date, storage requirements, and precautions, and that shall state chemical composition and test results to which material has been subjected in compliance with these Specifications.
- d. Certificates of Compliance

The impact attenuation performance of the synthetic safety surfacing proposed for installation shall be documented by certificates of compliance, as specified in paragraphs 1.04, A. An official authorized to certify on behalf of the synthetic safety surfacing and manufactured wood product manufacturer shall sign a statement attesting that the surfacing meets the requirements of ASTM F 1292 for a head-first fall from the highest accessible portion of installed play equipment. The impact attenuating qualities of the surfacing system shall not be diminished in the surface areas covering hardware.

Testing of product shall include tests conducted over hardware. The statement shall be dated after the award of the Contract, shall state the Contractor's name and address, and shall name the project and location. The statement shall also provide the name, address, and telephone number of the testing company, the date of the test, and the test results.

e. Manufacturer's Certification of Installation

The authorized manufacturer's representative shall certify upon completion of the installation that the safety surfacing has been installed in accordance with manufacturer's instructions and complies with all specifications.

f. A Certificate of Insurance shall be provided by manufacturers of synthetic safety surfacing, covering both product and general liability, of not less than \$1,000,000. The issuing underwriter shall be AA rated.

g. Supplier must provide a \$10 million product liability insurance certificate with project owner named as certificate holder, prior to delivery.

h. Submit a sample of each type of synthetic safety surfacing, minimum size 150 mm by 150 mm (6" by 6"), of the color specified, proposed for this Project.

1.6 DELIVERY, STORAGE, AND HANDLING

a. Materials and equipment shall be delivered and stored, if necessary, in accordance with the manufacturer's recommendations, in an area as directed by the County.

1.7 SITE CONDITIONS

a. Synthetic safety surfacing shall be installed on dry subsurfaces. Temperatures and weather conditions shall be as recommended by the manufacturer, with no prospect of rain within the initial drying period.

1.8 SEQUENCING AND SCHEDULING

a. Safety surfacing shall be installed after the playground equipment is installed. The installation shall be coordinated with playground equipment and site element installation.

1.9 WARRANTY

a. Safety surfacing shall maintain required impact attenuation characteristics and be guaranteed against defects in workmanship or materials for a period of seven (7) years, after final acceptance by the City of Westlake Village.

PART 2 – PRODUCTS

2.1 SYNTHETIC SAFETY SURFACING

a. Synthetic safety surfacing shall be a poured-in-place system, consisting of an impact attenuating substrate and a wear surface bonded to produce a uniform material installed on compacted aggregate base.

MFG: TotTurf  
Contact: Vince Brantly (714)904-8219

b. Impact Attenuating Substrate

Substrate shall consist of shredded styrene butadiene rubber (SBR) adhered with a

100% solids polyurethane binder to form a resilient material. Strands of SBR may vary from 0.5 mm to 2 mm in thickness, by 3 mm to 20 mm in length. Foam rubber shall not be permitted in substrate. Binder shall be not less than 12%, or more than 16%, of the total weight of rubber, and shall provide 100% coating of the particles. The substrate shall be compatible with the wear surface, shall be mixed and poured-in-place, and shall meet requirements herein for impact attenuation.

c. Wear Surface

Wear surface shall be a durable, weather-resistant, ultraviolet-stable material, which shall be the topcoat of a poured-in-place system. The wear surface shall meet ASTM D 2047 for minimum 0.8 coefficient of friction. Wear surface shall consist of ethylene propylene diene monomer (EPDM) particles adhered with a polyurethane binder formulated to produce an even, uniform surface. EPDM particles shall meet requirements of ASTM D 412 for tensile strength and elongation, ASTM D 2240 (Shore A) hardness of 50-70, not less than 25% rubber hydrocarbons. EPDM shall be peroxide or sulfur cured. Size of rubber particles shall be not less than 1 mm nor greater than 3 mm across. Binder shall be not less than 16% nor greater than 20% of total weight of rubber used in the wear surface, and shall provide 100% coating of the particles. Thickness of wear surface shall be a minimum 13 mm (1/2").

d. Binder

Binder for synthetic surfacing shall be nontoxic, weather-resistant, ultraviolet stable, non-hardening, retaining impact-attenuating qualities, and shall be 100% solids polyurethane, methylene diphenyl isocyanate (MDI), or as recommended by the manufacturer. No toluene diphenyl isocyanate (TDI) shall be used. Weight of polyurethane shall be no less than 1.02 kg/l (8.5 lb/gal), or more than 1.14 kg/l (9.5 lb/gal). Binder shall be aliphatic type only. Coloring pigments, if used, shall be inorganic oxides.

e. Color

Specific colors samples to be cast and to be submitted at least twice and approved by the City of Westlake Village before installation. Colors will be mixtures of color granules - (no black) for each color.

See Drawings for color schedule - locations and number of different colors.

2.2 AGGREGATE BASE ROCK

- a. Aggregate base rock for synthetic surfacing shall be 20 mm (3/4") minus sharp crushed rock conforming to the following grading requirement:

SIEVE SIZE	PERCENT PASSING
25 mm (1")	100 percent
20 mm (3/4")	90-100 percent
10 mm (3/8")	55-75 percent
6 mm (1/4") or #10	40-60 percent

Fraction Pass 6 mm (1/4")

Where a tolerance range is set forth in the above grading requirements, the midpoint of

the tolerance range is the target value and the product shall conform as closely as realistically possible to this target value. The purpose of the tolerance range is only to permit the occasional minor variations from the target value that are, for practical reasons, unavoidable.

b. Thickness

The minimum thickness of aggregate base rock shall be 100 mm (4") or as required by the manufacturer.

c. Compaction

Compaction shall be 95% or shall meet manufacturer's requirements.

2.3 GEOTEXTILE FABRIC

a. Geotextile fabric shall be a non-woven polypropylene sheet or a 100% polyester sheet, meeting the following requirements:

Weight:	0.085 kg/m <sup>2</sup> (3.0 oz/sy)	ASTM D 3776
Tensile strength:	40 kg (90 lbs)	ASTM D 1682
Elongation at break:	60% (percent)	ASTM D 1682
Permeability:	2 mm/sec (2/25"/sec)	

PART 3 – EXECUTION

3.1 PREPARATION

a. The contractor is responsible to coordinate the sequence of construction around playground safety surface work and related construction improvements.

b. Finished Grade

Finished elevations of adjacent areas shall be as indicated on the Drawings and the safety surfacing manufacturer's directions. The appropriate subgrade elevation shall be as established for the particular safety surfacing to be installed. The subsurface shall be installed in a true, even plane, and sloped to drain. Subsurface irregularities shall be corrected.

c. Synthetic Safety Surfacing

Subsurface shall be compacted aggregate, and meet requirements of the safety surface manufacturer. Tolerance of aggregate subsurfaces shall be within 13 mm (1/2") in 3 m (10'-0"). Aggregate subsurfaces shall be fully compacted to 95%.

d. Curing of Concrete

Prior to installation of synthetic surfacing, verify that concrete subsurfaces have fully cured a minimum of thirty (30) days (or as recommended by manufacturer) and that all concrete curing compounds and other deleterious substances that might adversely affect adhesion have been removed. Surface shall be clean and dry.

e. Drainage

The Contractor shall verify that subsurface drainage, including piped drainage systems, if required, has been installed to provide positive drainage.

### 3.2 SYNTHETIC SAFETY SURFACING INSTALLATION

#### a. Poured-in-Place System

Components of the poured-in-place safety surface system shall be mixed mechanically on site in accordance with manufacturer's recommendations to ensure a uniform distribution of binder. Hand-mixing shall not be allowed. Installation of poured-in-place surfacing shall be seamless and completely bonded to subsurface. Material shall cover all foundations and fill around all elements penetrating the surface.

#### b. Geotextile Fabric

When poured-in-place safety surfacing is installed over a compacted aggregate base, geotextile fabric shall be installed as shown on Drawings. Fabric shall cover the entire area to receive safety surface, and be lapped a minimum 100 mm (4") at seams. Seams shall be adhered in accordance with manufacturer's recommendations.

#### c. Poured-in-Place Substrate

The substrate layer of poured-in-place surfacing material shall be installed in one continuous pour on the same day.

#### d. Poured-in-Place Wear Surface

Wearing surface shall be bonded to substrate. Apply adhesive to substrate in small quantities so that wearing surface can be applied before adhesive dries. Surface shall be hand troweled to a smooth, even finish. Except where wearing surface is composed of different color patterns, pour shall be continuous and seamless. Where seams are required due to color change, adjacent color shall be placed as soon as possible, before initial pour has cured. The edge of initial pour shall be coated with adhesive and wearing surface mixture immediately applied.

#### e. Thickness

1. Construction methods, such as use of measured screeds 1 mm (1/16") thicker than the required surfacing depth, shall be employed to ensure full depth of specified surfacing material is installed.
2. Surfacing system thickness throughout the playground equipment use zone shall be as required to meet the impact attenuation requirements for a head-first fall from the highest accessible portion of installed play equipment. For the purpose of this specification for these installations, the highest accessible portion is determined to be eight feet (8'), equivalent to the top of the guardrail on a 4' high platform, plus a ten-inch (10") safety margin. The contractor shall verify that there are no higher accessible designated play surfaces, as specified in ASTM 1487. If equipment with higher accessible points is installed, safety surface thickness shall be increased accordingly.

#### f. Clean-up

Do not allow adhesives on adjacent surfaces. Immediately clean up spills or excess adhesive.

## g. Protection

The synthetic safety surfacing shall be allowed to fully cure in accordance with manufacturer's instructions. The surface shall be protected from all traffic during the curing period for forty-eight (48) hours or as instructed by the manufacturer.

## 3.3 MANUFACTURER'S SERVICES

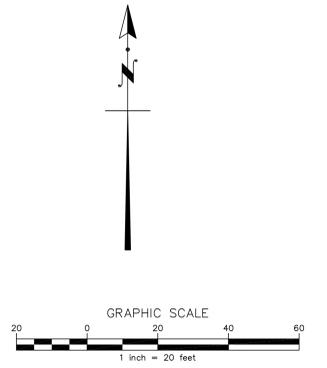
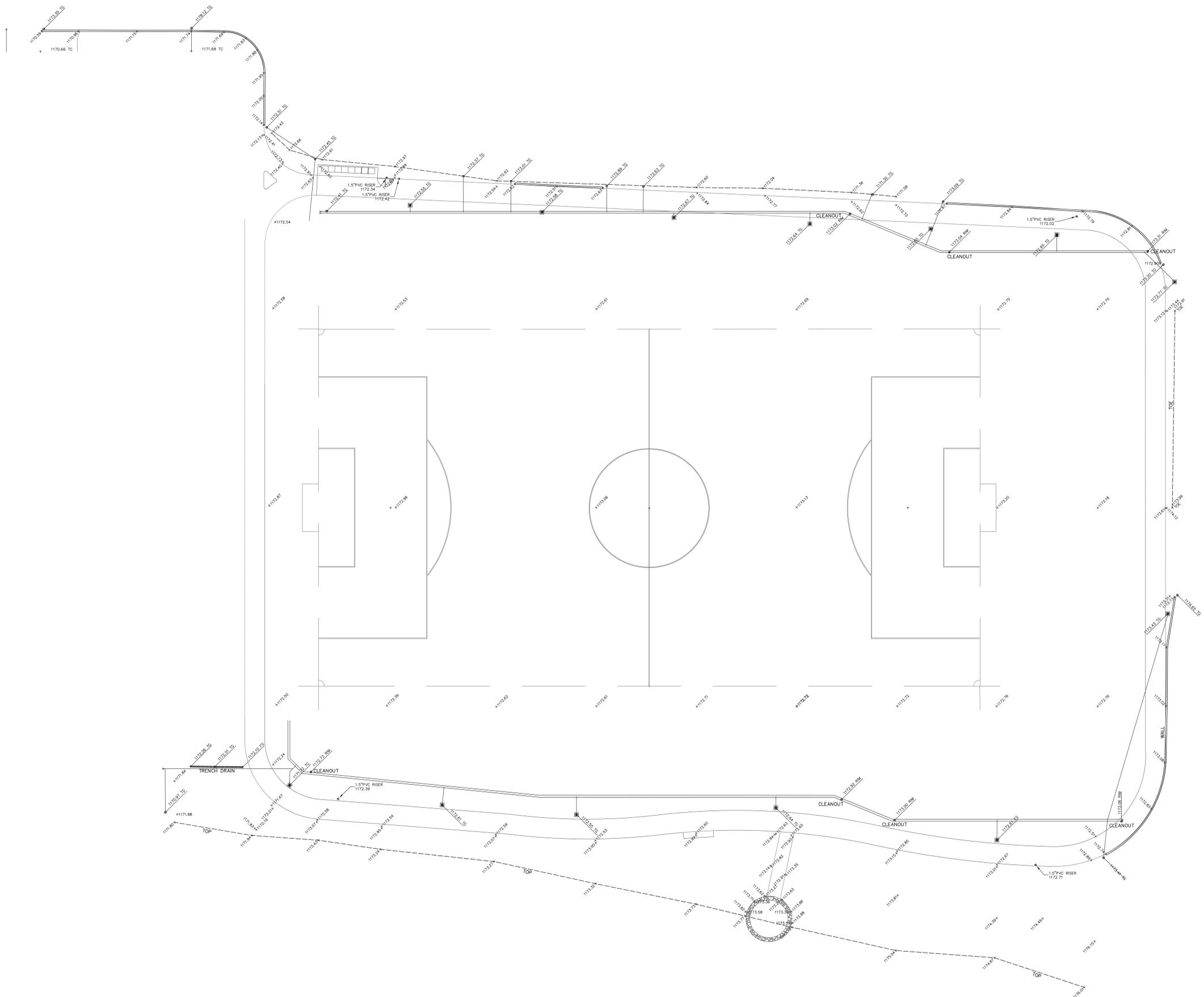
- a. Services of a manufacturer's representative, or manufacturer's certified or authorized installer, who is experienced in installation of the specified playground safety surface, shall be provided. The representative shall supervise or inspect the installation to ensure that the safety surfacing meets the impact attenuation requirements as specified herein.
- b. The manufacturer's representative shall certify that, regardless of the installer, the installation complies with the manufacturer's instructions and specifications, as specified in paragraph 1.4.1.

END OF SECTION- 02791

# PROJECT PLAN SHEET SD-1



AS-BUILT SURVEY OF SOCCER  
FIELD AND BASEBALL FIELD #1





# PLAN HOLDER'S LIST

**RECORD OF BID DOCUMENTS**

PROJECT MANAGER: John F. Knipe

PHONE #818 706-1613

PROJECT NAME: WLV Community Park – Phase 2B – Landscape & Irrigation Engineer's Estimate = \$2,100,000

Amount Per Set \$60.00 If Mailed \$80.00

Bid Opening: Nov. 22, 2016 at 10:00 AM

DATE ISSUED	FIRM NAME & ADDRESS (Legal Street Address of Firm)	NAME OF INDIVIDUAL RECIPIENT TELEPHONE NO. OF FIRM	AMOUNT	FEE OR DEPOSIT				Documents Issued		Addenda				
				C H E C K	C A S H	DATE REC'D	DATE RET'D	NO. OF SETS	SET NOS.	1	2	3	4	5
10/25/16	CITY OF WESTLAKE VILLAGE	CITY CLERK Beth Schott	---	--	--			1	CD	6	7	8	9	-
10/25/16	F.W. Dodge (Monrovia Plan Center) 1333 W. Mayflower Avenue 3 <sup>rd</sup> Floor Monrovia, CA 91016	Christa Alahouzos (626) 305-4000 (626) 932-6189 fax <a href="mailto:Dodge_reocwe@construction.com">Dodge_reocwe@construction.com</a>	---	--	--			1	Email PDF					
10/25/16	BidAmerica 1085 Elm Street Murrieta, CA 92562	Michelle Castaneda (951) 677-4819 (951) 600-0615 fax (951) 677-4814 fax <a href="mailto:planroom@bidamerica.com">planroom@bidamerica.com</a>	---	--	--			1	Email PDF					
10/25/16	Builders Notebook 608 West Pedregosa St Santa Barbara, CA 93101	Michelle Tack (877) 776-5436 (805) 845-7745 fax <a href="mailto:planroom@buildersnotebook.com">planroom@buildersnotebook.com</a>	---	--	--			1	Email PDF					
10/25/16	AirX 5191 Mayberry Ave Rancho Cucamonga, CA 91737	Dawn Kanavy 909-493-1554 <a href="mailto:dkanavy@airxus.com">dkanavy@airxus.com</a>	---	--	--			1	Email PDF					
10/25/16	Morillo Construction, Inc 227 N Holliston Ave, Pasadena, CA 91106	Miki Viduya-Capati 626.796.3800 x102 Fax 626.796.3719  <a href="mailto:mikic@morilloconstruction.com">mikic@morilloconstruction.com</a> <a href="mailto:jerricor@morilloconstruction.com">jerricor@morilloconstruction.com</a>	---	--	--			1	Email PDF					

**RECORD OF BID DOCUMENTS**

PROJECT MANAGER: John F. Knipe

PHONE #818 706-1613

PROJECT NAME: WLV Community Park – Phase 2B – Landscape & Irrigation Engineer's Estimate = \$2,100,000

Amount Per Set \$60.00 If Mailed \$80.00

Bid Opening: Nov. 22, 2016 at 10:00 AM

DATE ISSUED	FIRM NAME & ADDRESS (Legal Street Address of Firm)	NAME OF INDIVIDUAL RECIPIENT TELEPHONE NO. OF FIRM	AMOUNT	FEE OR DEPOSIT		Documents Issued				Addenda				
				C H E C K	C A S H	DATE REC'D	DATE RET'D	NO. OF SETS	SET NOS.	1	2	3	4	5
10/25/16	International Line Builders, Inc. 1055 Montecito Drive Corona, CA 92879	Ashley Esparza Direct Office Number (951)682-2982 Secure Fax Number (951) 848-0886 Cell Number (951) 529-5827  <a href="mailto:Ashley.Esparza@ilbinc.com">Ashley.Esparza@ilbinc.com</a>	---	--	--			1	Email PDF	6	7	8	9	-
10/25/16	Environmental Construction, Inc. 21550 Oxnard St. #1050 Woodland Hills, CA. 91367	Lara Jingeuzian 818-449-8920 818-703-9073-Fax <a href="mailto:ljingeuzian@environcon.com">ljingeuzian@environcon.com</a> <a href="mailto:estimating@environcon.com">estimating@environcon.com</a>	---	--	--			1	Email PDF					
10/25/16	California Commercial Pools 2255 E. Auto Centre Drive Glendora, CA 91740	Wanda Hernandez P 909.394.1280 F 909.394.4579  <a href="mailto:whernandez@calcommpools.com">whernandez@calcommpools.com</a>	---	--	--			1	Email PDF					
10/25/16	Blois Construction 3201 Sturgis Rd. Oxnard, CA 93030	Crissy Cabrera (P) 805-656-1432 (F) 805-485-0338 <a href="mailto:bidinfo@bloisconstruction.com">bidinfo@bloisconstruction.com</a>	---	--	--			1	Email PDF					



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				C H E C K	C A S H	DATE REC'D	DATE RET'D	NO. OF SETS	SET NOS.	1	2	3	4	5
10/25/16	<b>USA Shade and Fabric Structures</b> 1085 N. Main Street, Suite C Orange, CA 92867	<b>Michele Estrella</b> Office: 714-427-6981 Fax: 714-538-2440 <a href="mailto:mestrella@usa-shade.com">mestrella@usa-shade.com</a>	---	--	--			1	Email PDF	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	-
10/25/16	<b>ARC CONSTRUCTION, INC.</b> 3624 Foothill Blvd., #2 La Crescenta, CA 91214	Racquel Sobrino Phone: (818) 249-0703 Fax: (818) 249-9434 <a href="mailto:racquel@arcconstructioncorp.com">racquel@arcconstructioncorp.com</a> <a href="mailto:info@arcconstructioncorp.com">info@arcconstructioncorp.com</a>	---	--	--			1	Email PDF					
10/25/16	<b>Hellas Construction, Inc.</b> 9780 N Rowell Fresno, CA. 93720	<b>Dominick Berarducci</b> C: (512) 364-3624 F: (512) 250-1960 <a href="mailto:dominick@hellasconstruction.com">dominick@hellasconstruction.com</a> <a href="mailto:jtryon@hellasconstruction.com">jtryon@hellasconstruction.com</a> <a href="mailto:jadams@hellasconstruction.com">jadams@hellasconstruction.com</a>	---	--	--			1	Email PDF					
10/25/16	Horizons Construction Company 432 W Meats Avenue Orange CA 92865	Michael Ortega P: 714-626-0000 F: 714-626-0006 <a href="mailto:Bidding@horizonscci.com">Bidding@horizonscci.com</a>	---	--	--			1	Email PDF					
10/25/16	C.S. Legacy Construction, Inc. 1461 S. East End Ave Pomona, Ca 91766	Richard Gonzales <a href="tel:909-590-2626">909-590-2626</a> <a href="tel:909-590-3778">909-590-3778</a> Fax <a href="mailto:richard@cslegacy.net">richard@cslegacy.net</a>	---	--	--			1	Email PDF					





## RECORD OF BID DOCUMENTS

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				C H E C K	C A S H	DATE REC'D	DATE RET'D	NO. OF SETS	SET NOS.	1	2	3	4	5
										6	7	8	9	-
11/4/16	Jaynes Brothers Construction 704 Cayo Grande Ct Newbury Park, Ca 91320	Chase Jaynes 805.797.0472 805.559.0163 cell <a href="mailto:chase@jaynesbrothers.com">chase@jaynesbrothers.com</a>	---	--	--			1	Email PDF					
11/4/16	Parsam Construction Inc 3334 Barnes Circle Glendale, CA 91208	Aren Hovanessian 818.236.3633 818.236.3634 fax <a href="mailto:aren@parsamcorp.com">aren@parsamcorp.com</a>	---	--	--			1	Email PDF					
11/4/16	Unlimited Engineering, Inc. 950 Firestone Circle Simi Valley, CA 93065	Kristina Carter 805-587-7514 P 805-306-1247 F  <a href="mailto:Unlimitedengineering101@yahoo.com">Unlimitedengineering101@yahoo.com</a>	---	--	--			1	Email PDF					
11/9/16	<b>No Fault</b> 273 S Pershing Ave #1 San Bernardino, CA 92408	<b>Karina Rocha</b> (909) 381-1014 Office (909) 383-2847 Fax (866) 637-7678 Toll-Free <a href="mailto:Karina@nofault.com">Karina@nofault.com</a>	---	--	--			1	Email PDF					
10/25/16	Willdan 374 Poli Street, Suite 101 Ventura, CA 93001	John Knipe (805) 653-6597 (805) 643-0791 fax <a href="mailto:jknipe@willdan.com">jknipe@willdan.com</a>	---	--	--			1	001					







## RECORD OF BID DOCUMENTS

PROJECT MANAGER: John F. Knipe

PHONE #818 706-1613

PROJECT NAME: WLV Community Park – Phase 2B – Landscape & Irrigation Engineer's Estimate = \$2,100,000

Amount Per Set \$60.00 If Mailed \$80.00

Bid Opening: Nov. 22, 2016 at 10:00 AM

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				C H E C K	C A S H	DATE REC'D	DATE RET'D	NO. OF SETS	SET NOS.	1	2	3	4	5
	Place Business Card or write in									6	7	8	9	-
	Place Business Card or write in							1	008					
	Place Business Card or write in							1	009					

## RECORD OF BID DOCUMENTS

PROJECT MANAGER: John F. Knipe

PHONE #818 706-1613

PROJECT NAME: WLW Community Park – Phase 2B – Landscape & Irrigation Engineer's Estimate = \$2,100,000

Amount Per Set \$60.00 If Mailed \$80.00

Bid Opening: Nov. 22, 2016 at 10:00 AM

DATE ISSUED	FIRM NAME & ADDRESS (Legal Street Address of Firm)	NAME OF INDIVIDUAL RECIPIENT TELEPHONE NO. OF FIRM	AMOUNT	FEE OR DEPOSIT		Documents Issued		Addenda						
				C H E C K	C A S H	DATE REC'D	DATE RET'D	NO. OF SETS	SET NOS.	1	2	3	4	5
	Place Business Card or write in							1	010	1 — 6	2 — 7	3 — 8	4 — 9	5 —
	Place Business Card or write in							1	011					

## RECORD OF BID DOCUMENTS

PROJECT MANAGER: John F. Knipe

PHONE #818 706-1613

PROJECT NAME: WLV Community Park – Phase 2B – Landscape & Irrigation Engineer's Estimate = \$2,100,000

Amount Per Set \$60.00 If Mailed \$80.00

Bid Opening: Nov. 22, 2016 at 10:00 AM

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				C H E C K	C A S H	DATE REC'D	DATE RET'D	NO. OF SETS	SET NOS.	1	2	3	4	5
	Place Business Card or write in							1	012	6	7	8	9	-
	Place Business Card or write in							1	013					

## RECORD OF BID DOCUMENTS

PROJECT MANAGER: John F. Knipe

PHONE #818 706-1613

PROJECT NAME: WLV Community Park – Phase 2B – Landscape & Irrigation Engineer's Estimate = \$2,100,000

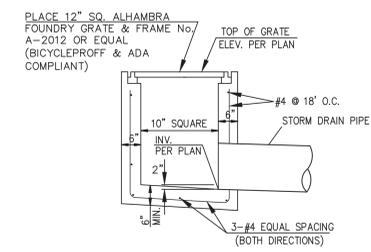
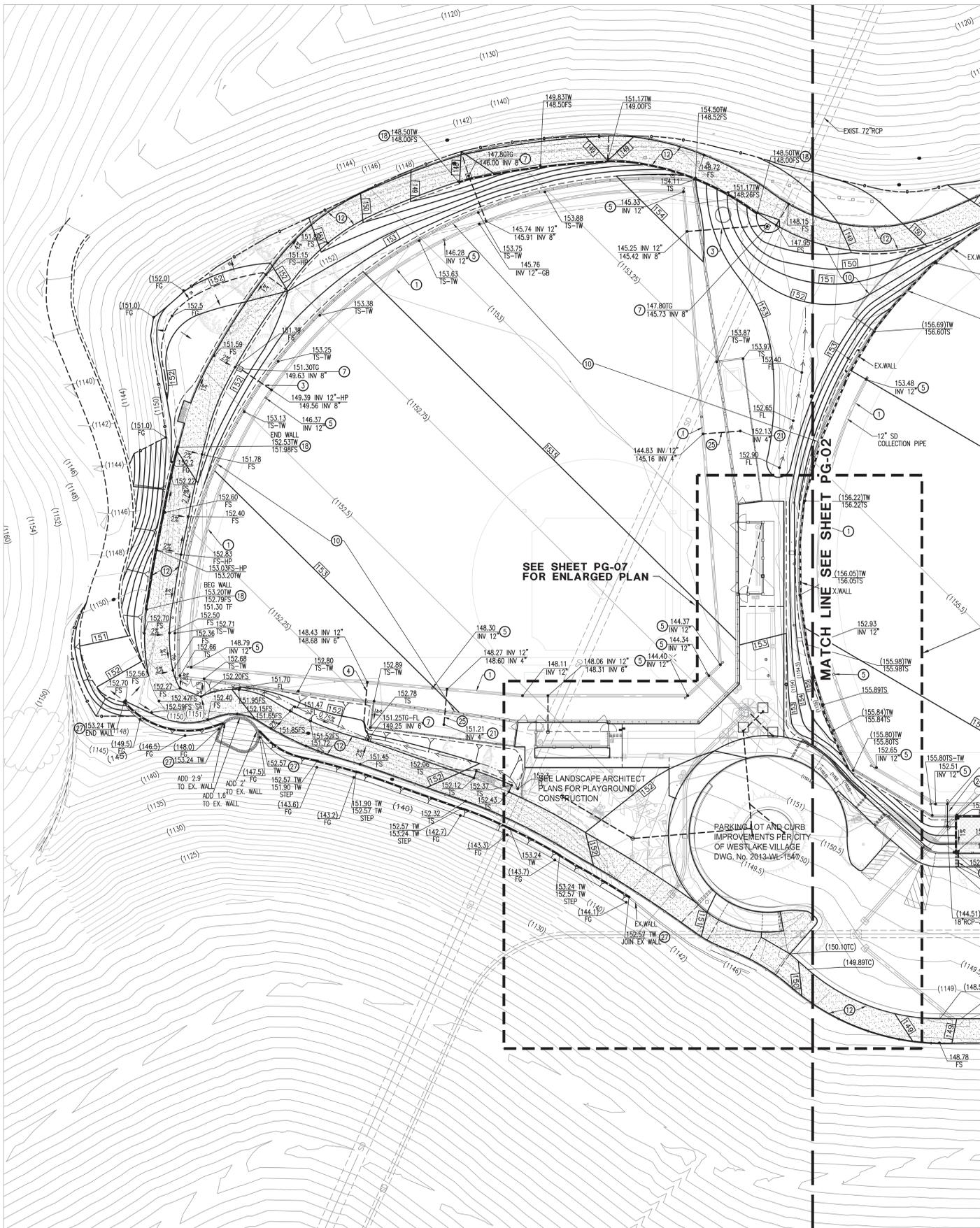
Amount Per Set \$60.00 If Mailed \$80.00

Bid Opening: Nov. 22, 2016 at 10:00 AM

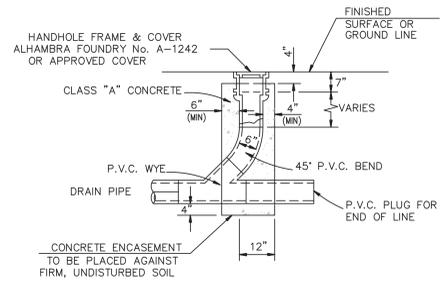
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				C H E C K	C A S H	DATE REC'D	DATE RET'D	NO. OF SETS	SET NOS.	1	2	3	4	5
	Place Business Card or write in							1	014	6	7	8	9	-
	Place Business Card or write in							1	015					

**PHASE 2A PLANS**  
**(FOR UTILITY REFERENCE ONLY)**

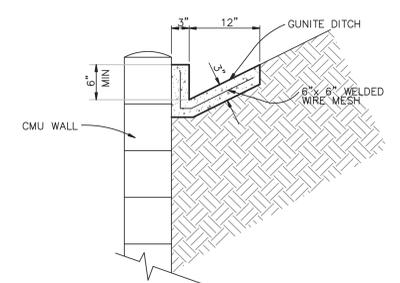




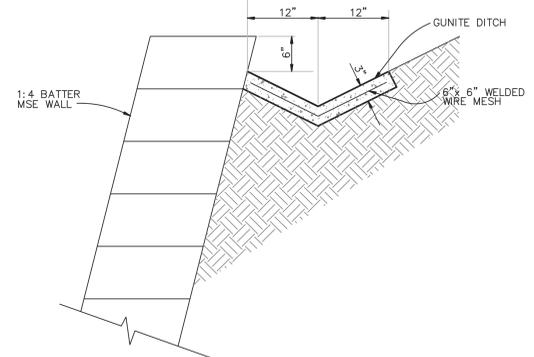
**12"x12" GRATE INLET**  
N.T.S.



**STORM DRAIN CLEANOUT**  
SCALE: 1/2" = 1'



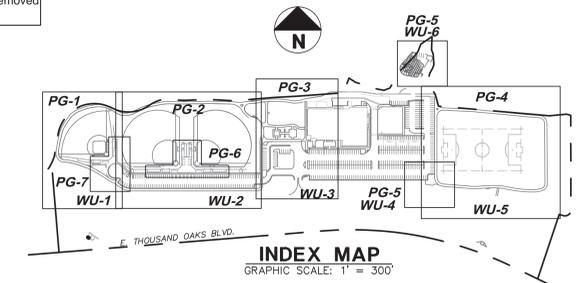
**GUNITITE DITCH DETAIL**  
NOT TO SCALE



**GUNITITE DITCH DETAIL**  
NOT TO SCALE

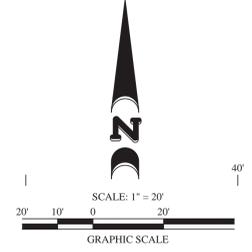
Note: All excess dirt, either from the soccer fields or other work areas, shall be removed from the project site.

NOTE:  
FOR ALL PROPOSED ELEVATIONS ADD  
1,000 FEET.



**CONSTRUCTION NOTES**

- 1 CONSTRUCT 12" PERFORATED HDPE PIPE PER DETAIL G, SHEET L6-5, ARCHITECT'S PLANS.
- 2 CONSTRUCT 12" HDPE STORM DRAIN PIPE.
- 3 CONSTRUCT 8" HDPE STORM DRAIN PIPE.
- 4 CONSTRUCT 6" HDPE STORM DRAIN PIPE.
- 5 CONSTRUCT STORM DRAIN CLEANOUT PER DETAIL 5 ON SHEET PG-01.
- 6 CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD. 321-2.
- 7 CONSTRUCT 12"x12" GRATED INLET PER DETAIL 7 ON SHEET PG-01.
- 8 CONSTRUCT CONCRETE COLLAR PER SPPWC STD. PLAN 380-4.
- 9 CONSTRUCT SURFACE PER ARCHITECT'S PLANS.
- 10 CONSTRUCT SYNTHETIC TURF PER ARCHITECT'S PLANS.
- 11 CONSTRUCT 4" PCC, COLOR & FINISH PER ARCHITECT'S PLANS.
- 12 CONSTRUCT ALL WEATHER TRAIL SURFACING PER ARCHITECT'S PLANS.
- 13 CONSTRUCT 6" PCC, COLOR & FINISH PER ARCHITECT'S PLANS.
- 14 CONSTRUCT CURB RAMP TYPE 1 PER SPPWC STD. PLAN 111-5 CASE B TYPE 1, MODIFIED.
- 15 CONSTRUCT CURB RAMP TYPE 1 PER SPPWC STD. PLAN 111-5 CASE C TYPE 1, MODIFIED.
- 16 CONSTRUCT CURB RAMP TYPE 1 PER SPPWC STD. PLAN 111-5 CASE A TYPE 1, MODIFIED.
- 17 INSTALL TRUNCATED DOMES PER SPPWC STD. PLAN 111-5.
- 18 RETAINING WALL PER SEPARATE PLANS.
- 19 INSTALL TREE DRAIN PER DETAIL E ON SHEET L7-7, ARCHITECT PLANS.
- 20 INSTALL PLAY AREA SUMP DRAIN PER DETAIL G ON SHEET L5-6, ARCHITECT PLANS.
- 21 INSTALL AREA DRAIN PER DETAIL 21 ON SHEET PG-03.
- 22 INSTALL SAND AREA DRAIN PER DETAIL H ON SHEET L5-6, ARCHITECT PLANS.
- 23 CONSTRUCT CONCRETE COLLAR PER SPPWC STD. 380-4.
- 24 CONSTRUCT 18" HDPE STORM DRAIN PIPE.
- 25 CONSTRUCT 4" HDPE STORM DRAIN PIPE.
- 26 INSTALL CURB-0-LET TCD 35 PER DETAIL 26 ON SHEET PG-03.
- 27 INSTALL SUB DRAIN PER DETAIL H ON SHEET L6-6, ARCHITECT PLANS.
- 28 1:4 MSE RETAINING WALL PER SEPARATE PLANS.
- 29 CONSTRUCT GUNITITE DITCH PER DETAIL 28 ON SHEET PG-01.
- 30 CONSTRUCT GUNITITE DITCH PER DETAIL 29 ON SHEET PG-01.
- 31 CONSTRUCT JUNCTION STRUCTURE-PIPE TO PIPE PER SPPWC STD. 332-2
- 32 SAWCUT, REMOVE AND DISPOSE OF CONCRETE CURB & GUTTER AND CONCRETE WALK.
- 33 CONSTRUCT CURB & GUTTER A3-6 PER SPPWC STD. PLAN 120-2. (0" CURB FACE THROUGH RAMP.)
- 34 INSTALL NDS PRE-SLOPED CHANNEL DRAIN, PART NO. DS-191 THROUGH DS-094 WITH NDS GRATE DS-221. (OR EQUAL)
- 35 INSTALL NDS PRE-SLOPED CHANNEL DRAIN IN-LINE CATCH BASIN, PART NO. DS-340 WITH NDS GRATE DS-221. (OR EQUAL)



**LEGEND & ABBREVIATIONS**

FF	FINISHED FLOOR
TC	TOP OF CURB
FS	FINISHED SURFACE
FG	FINISHED GRADE
BW	BACK OF WALK
EP	EDGE OF PAVEMENT
BC	BEGIN CURVE
EC	END OF CURVE
TW	TOP OF WALL
GB	GRADE BREAK
LP	LOW POINT
TG	TOP OF GRATE
MH	MANHOLE
CB	CATCH BASIN
CO	SEWER CLEANOUT
POC	POINT OF CONNECTION
FL	FLOWLINE
LS	LANDSCAPING
	EXISTING BOUNDARY LINE WITH BEARINGS & DISTANCES
	FINISH GRADE
	EXISTING GRADE
	EXISTING SEWER LINE
	EXISTING WATER LINE
	EXISTING STORM DRAIN LINE
	PROPOSED SEWER LINE
	PROPOSED WATER LINE
	PROPOSED STORM DRAIN LINE
	PROPOSED RETAINING WALL
	PROPOSED DAYLIGHT LINE
	PROPOSED GRADIENT
	PROPOSED ELEVATIONS
	PARENTHESES INDICATE EXISTING ELEVATIONS

MOORE IACOFANO GOLTSMAN, INC.  
102 W. UNION AVE.  
FULLERTON, CA 92832  
TEL 714.871.9038  
FAX 714.871.1188  
www.mig.com

CONSULTANT:

HUNT-ZOLLARS, Inc. Thousand Oaks  
90 East Thousand Oaks Blvd  
Suite 201  
Thousand Oaks, California 91320  
P: (805) 418-1802 F: (805) 418-1819

PROJECT TEAM:  
LANDSCAPE ARCHITECT  
MOORE IACOFANO GOLTSMAN, INC.  
CIVIL ENGINEER  
HUNT ZOLLARS  
IRRIGATION DESIGN  
WILLIAMS IDC  
ELECTRICAL ENGINEER  
LRA ENGINEERS  
SKATEPARK DESIGN  
TERRY VALLES  
STRUCTURAL ENGINEER  
CORREIA CONSULTING AND DESIGN  
ARCHITECT (IN COLLABORATION)  
CASTLE COOKE  
WATG

**WESTLAKE VILLAGE COMMUNITY PARK**

**PARK IMPROVEMENT PLANS**

31107 East Thousand Oaks Blvd.  
Westlake Village, CA

CITY OF WLW  
PROJECT # 2013-WL-1546

SHEET TITLE

**PRECISE GRADING AND DRAINAGE PLAN**

DATE	REVISION
1/11/16	Added Contour Elevations

STAMP

CHECKED BY	DATE
MJG	10-16-2015

DRAWN BY	JOB NO.
WB	R190095.03

SHEET

**PG-01A**

SHT 5 OF 92 SHTS

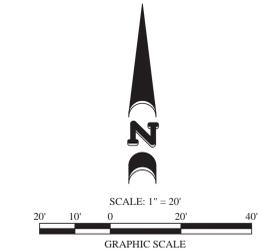
Know what's below.  
Call before you dig.

DIAL TOLL FREE  
**8 1 1**  
AT LEAST TWO DAYS BEFORE YOU DIG

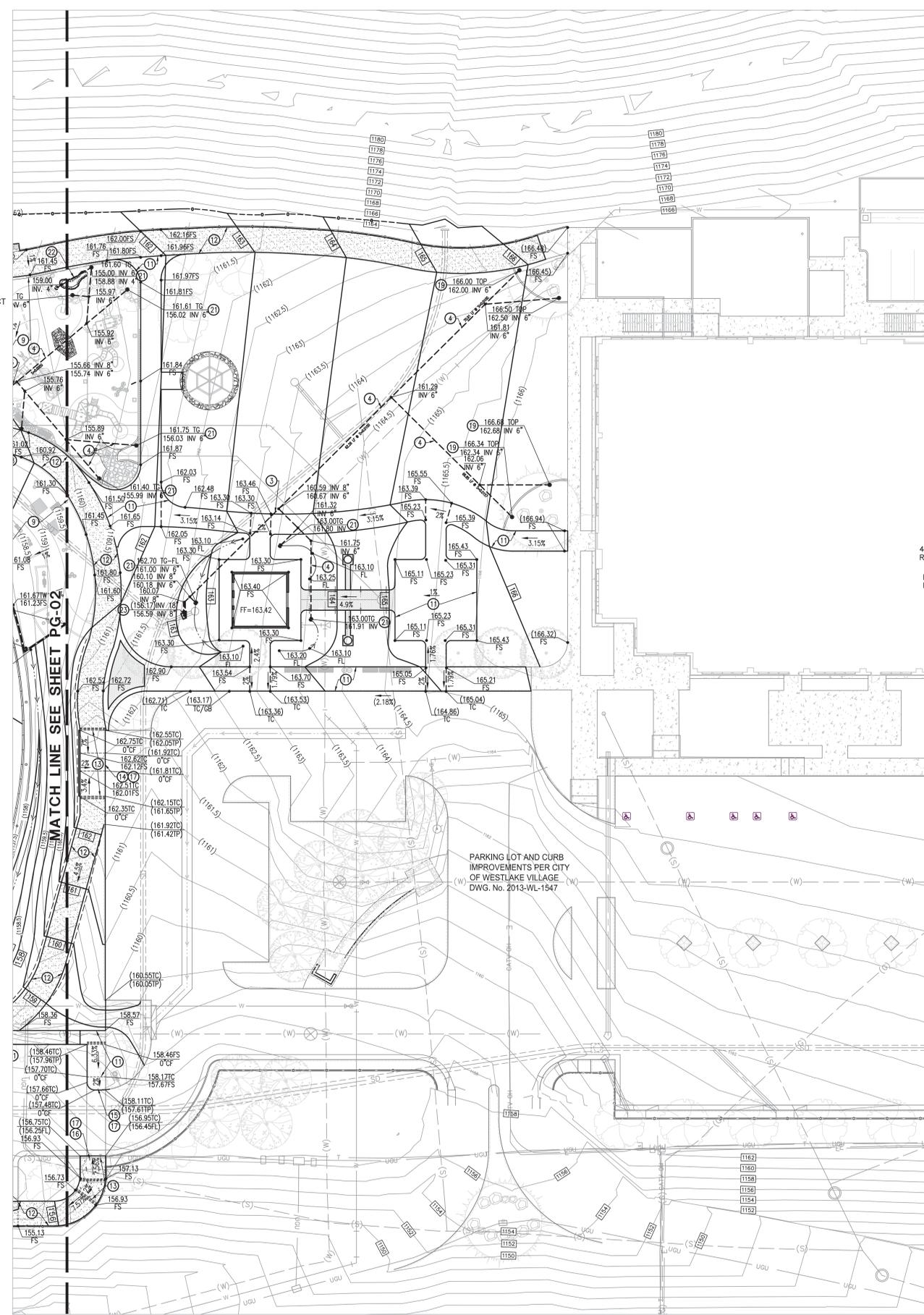
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

**CONSTRUCTION NOTES**

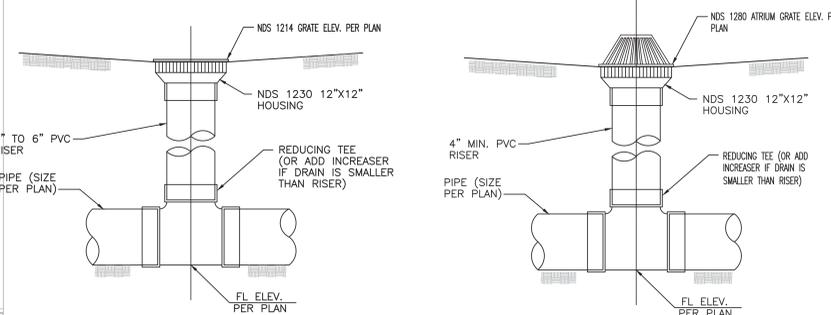
1. CONSTRUCT 12" PERFORATED HDPE PIPE PER DETAIL G, SHEET L6-5, ARCHITECT'S PLANS.
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16. CONSTRUCT CURB RAMP TYPE 1 PER SPPWC STD. PLAN 111-5 CASE A TYPE 1, MODIFIED.
17. INSTALL TRUNCATED DOMES PER SPPWC STD. PLAN 111-5.
18. RETAINING WALL PER SEPARATE PLANS.
19. INSTALL TREE DRAIN PER DETAIL E ON SHEET L7-7, ARCHITECT PLANS.
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21. INSTALL AREA DRAIN PER DETAIL 21 ON SHEET PG-03.
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35. INSTALL NDS PRE-SLOPED CHANNEL DRAIN IN-LINE CATCH BASIN, PART NO. DS-340 WITH NDS GRATE DS-221. (OR EQUAL)



SEE LANDSCAPE ARCHITECT PLANS FOR PLAYGROUND CONSTRUCTION



PARKING LOT AND CURB IMPROVEMENTS PER CITY OF WESTLAKE VILLAGE DWG. No. 2013-WL-1547



**12"x12" AREA DRAIN DETAILS**  
SCALE: 1" = 1'

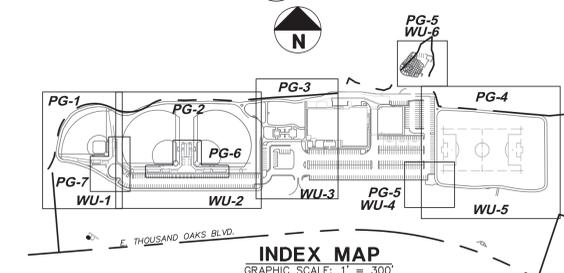
**LEGEND & ABBREVIATIONS**

- FF FINISHED FLOOR
- TC TOP OF CURB
- FS FINISHED SURFACE
- FG FINISHED GRADE
- BW BACK OF WALK
- EP EDGE OF PAVEMENT
- BC BEGIN CURVE
- EC END OF CURVE
- TW TOP OF WALL
- GB GRADE BREAK
- LP LOW POINT
- TG TOP OF GRATE
- MH MANHOLE
- CB CATCH BASIN
- CO SEWER CLEANOUT
- POC POINT OF CONNECTION
- FL FLOWLINE
- LS LANDSCAPING
- N 49°58'43"W EXISTING BOUNDARY LINE WITH BEARINGS & DISTANCES
- 1165 FINISH GRADE
- 1168 EXISTING GRADE
- (S) EXISTING SEWER LINE
- (W) EXISTING WATER LINE
- (W) EXISTING STORM DRAIN LINE
- S PROPOSED SEWER LINE
- W PROPOSED WATER LINE
- PROPOSED STORM DRAIN LINE
- PROPOSED RETAINING WALL
- PROPOSED DAYLIGHT LINE
- 1% PROPOSED GRADIENT
- XXXX TC PROPOSED ELEVATIONS
- XXXX FL PROPOSED ELEVATIONS
- (XXXX TC) PARENTHESES INDICATE EXISTING ELEVATIONS

MODEL	SIZE	ROUND PIPE EQUIVALENT
TCD 35	3" X 4"	3
TCD 38	3" X 6"	3
TCD 312	3" X 12"	6
TCD 414	4" X 14"	8
TCD 485	4" Round	4
TCD 38D	3" Round	3
TCD 422	4" X 22"	10

Install As Per Manufacturer's Recommendations

**CURB-O-LET DETAILS**



**NOTE:**  
FOR ALL PROPOSED ELEVATIONS ADD 1,000 FEET.  
  
Note: All excess dirt, either from the soccer fields or other work areas, shall be removed from the project site.

**811**  
Know what's below.  
Call before you dig.  
DIAL TOLL FREE 8 1 1  
AT LEAST TWO DAYS BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

**MIG**  
MOORE IACOFANO GOLTSMAN, INC.  
105 W. UNION AVE. FULLERTON, CA 92832  
TEL: 714.871.9338 FAX: 714.871.1188 www.mig.com

**CONSULTANT:**  
**HUITT-ZOLIARS**  
Huitt-Zoliars, Inc. Thousand Oaks  
90 East Thousand Oaks Blvd. Suite 201  
Thousand Oaks, California 91380  
P: (805) 418-1822 F: (805) 418-1819

**PROJECT TEAM:**  
LANDSCAPE ARCHITECT: MOORE IACOFANO GOLTSMAN, INC.  
CIVIL ENGINEER: HUITT ZOLIARS  
IRRIGATION DESIGN: WILLIAMS IDC  
ELECTRICAL ENGINEER: LRA ENGINEERS  
SKATEPARK DESIGN: TERRY VALLES  
STRUCTURAL ENGINEER: CORREIA CONSULTING AND DESIGN  
ARCHITECT (IN COLLABORATION): CASTLE COOKE  
WATG

**WESTLAKE VILLAGE COMMUNITY PARK**  
**PARK IMPROVEMENT PLANS**

31107 East Thousand Oaks Blvd.  
Westlake Village, CA

CITY OF WL  
PROJECT # 2013-WL-1546

**PRECISE GRADING AND DRAINAGE PLAN**

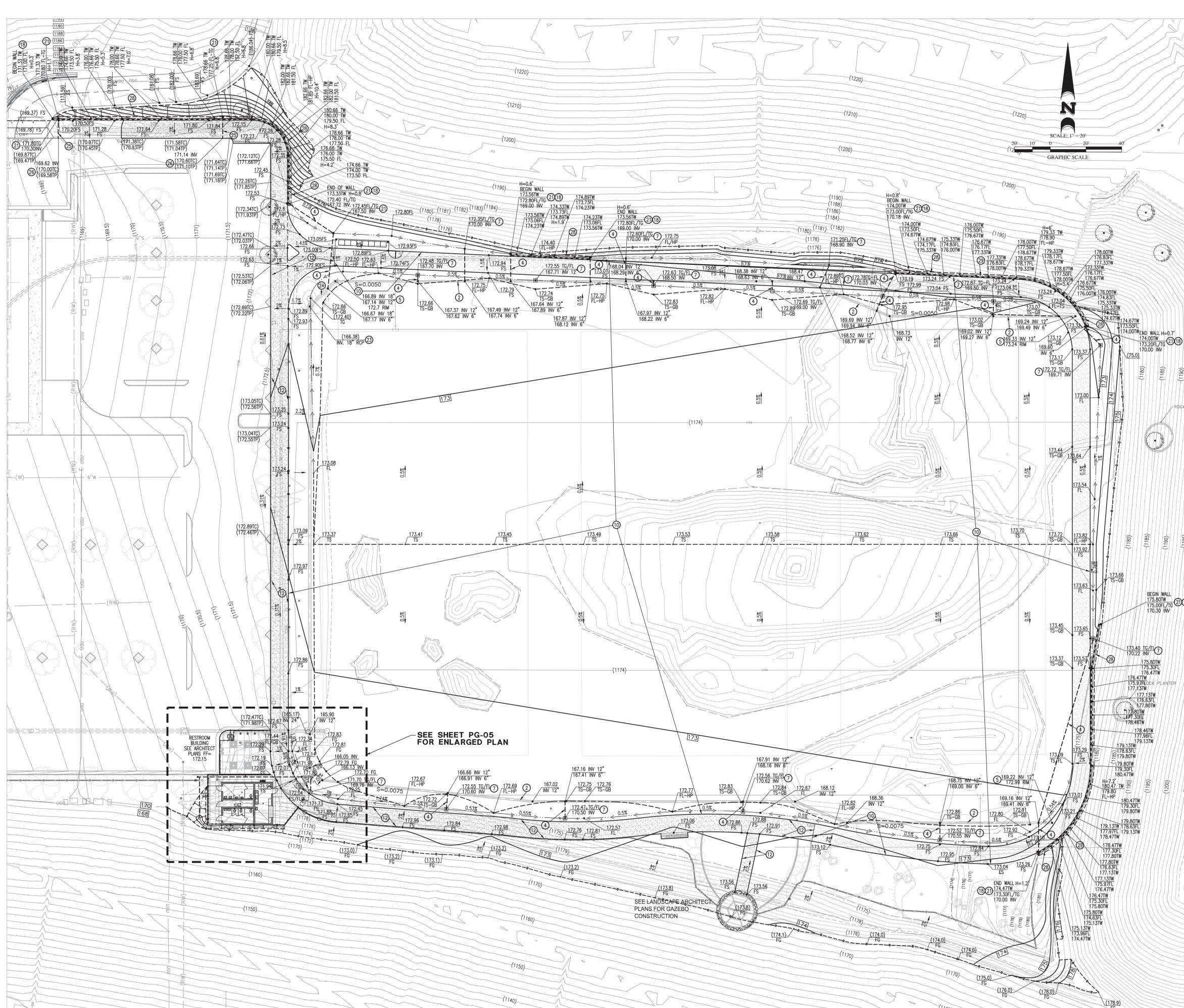
**SHEET TITLE**

DATE	REVISION
1/11/16	Added Contour Elevations

**STAMP**  
REGISTERED PROFESSIONAL ENGINEER  
No. 49158  
Expiration 09-30-16

CHECKED BY: DATE: 10-16-2015  
DRAWN BY: JOB NO.:  
WB R190095.03

**PG-03A**  
SHT 7 OF 92 SHTS



**CONSTRUCTION NOTES**

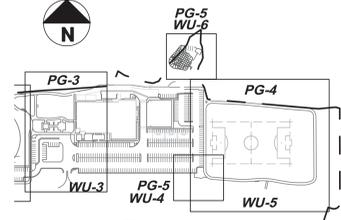
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Note: All excess dirt, either from the soccer fields or other work areas, shall be removed from the project site.

**LEGEND & ABBREVIATIONS**

- |  |  |
|--|--|
| FF   | FINISHED FLOOR                           |
| TC   | TOP OF CURB                              |
| FS   | FINISHED SURFACE                         |
| FG   | FINISHED GRADE                           |
| BW   | BACK OF WALK                             |
| EP   | EDGE OF PAVEMENT                         |
| BC   | BEGIN CURVE                              |
| EC   | END OF CURVE                             |
| TW   | TOP OF WALL                              |
| GB   | GRADE BREAK                              |
| LP   | LOW POINT                                |
| TC   | TOP OF GRATE                             |
| MH   | MANHOLE                                  |
| CB   | CATCH BASIN                              |
| CO   | SEWER CLEANOUT                           |
| POC  | POINT OF CONNECTION                      |
| FL   | FLOWLINE                                 |
| LS   | LANDSCAPING                              |
| - - - - - N 49°58'43"W                           |  |
| EXISTING BOUNDARY LINE WITH BEARINGS & DISTANCES |  |
| - - - - -  | FINISH GRADE                             |
| - - - - -  | EXISTING GRADE                           |
| - - - - - (S)                                    | EXISTING SEWER LINE                      |
| - - - - - (W)                                    | EXISTING WATER LINE                      |
| - - - - -  | EXISTING STORM DRAIN LINE                |
| - - - - - s                                      | PROPOSED SEWER LINE                      |
| - - - - - w                                      | PROPOSED WATER LINE                      |
| - - - - -  | PROPOSED STORM DRAIN LINE                |
| - - - - -  | PROPOSED RETAINING WALL                  |
| - - - - -  | PROPOSED DAYLIGHT LINE                   |
| - - - - - 1%                                     | PROPOSED GRADIENT                        |
| - - - - - XXXX TC                                | PROPOSED ELEVATIONS                      |
| - - - - - (XX.XX TC)                             | PARENTHESES INDICATE EXISTING ELEVATIONS |



**INDEX MAP**  
GRAPHIC SCALE: 1" = 300'

**MIG**  
MOORE IACOFANO GOLTSMAN, INC.  
105 W. UNION AVE.  
FULLERTON, CA 92832  
TEL: 714/871-9308  
FAX: 714/871-1168  
www.mig.com

CONSULTANT:  
**HUNT-ZOLIARS**  
Hunt-Zoliars, Inc. Thousand Oaks  
90 East Thousand Oaks Blvd.  
Suite 201  
Thousand Oaks, California 91320  
P: (805) 419-1802 F: (805) 419-1819

PROJECT TEAM:  
LANDSCAPE ARCHITECT  
**MOORE IACOFANO GOLTSMAN, INC.**  
CIVIL ENGINEER  
**HUNT-ZOLIARS**  
IRRIGATION DESIGN  
**WILLIAMS IDC**  
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SKATEPARK DESIGN  
**TERRY VALLES**  
STRUCTURAL ENGINEER  
**CORREIA CONSULTING AND DESIGN**  
ARCHITECT (IN COLLABORATION)  
**CASTLE COOKE**  
WATG

**WESTLAKE VILLAGE COMMUNITY PARK**  
**PARK IMPROVEMENT PLANS**

31107 East Thousand Oaks Blvd.  
Westlake Village, CA

CITY OF WLW  
PROJECT # 2013-WL-1546

SHEET TITLE

**PRECISE GRADING AND DRAINAGE PLAN**

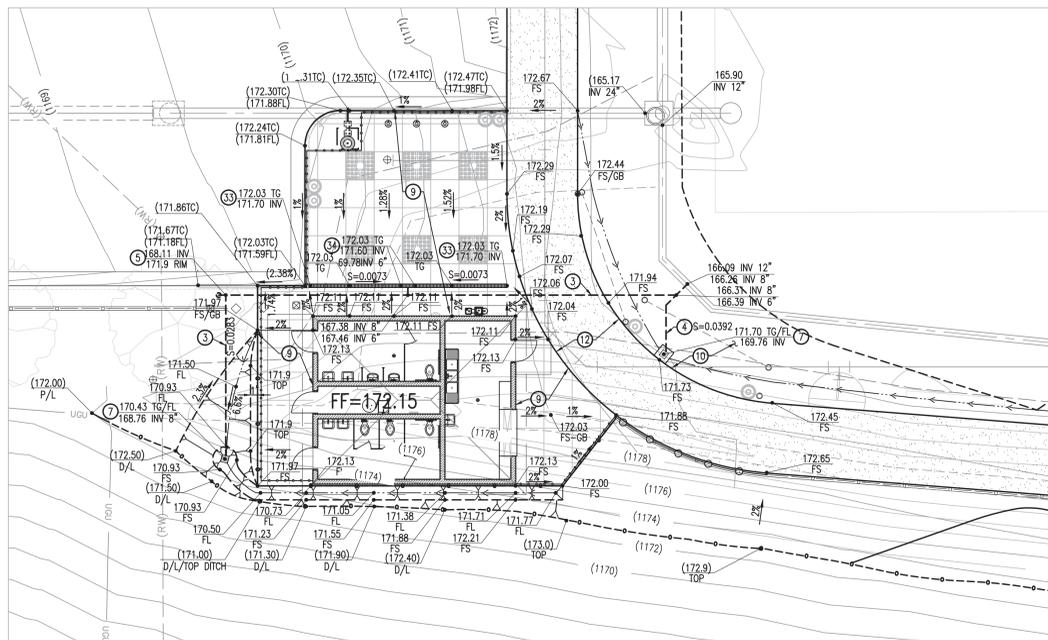
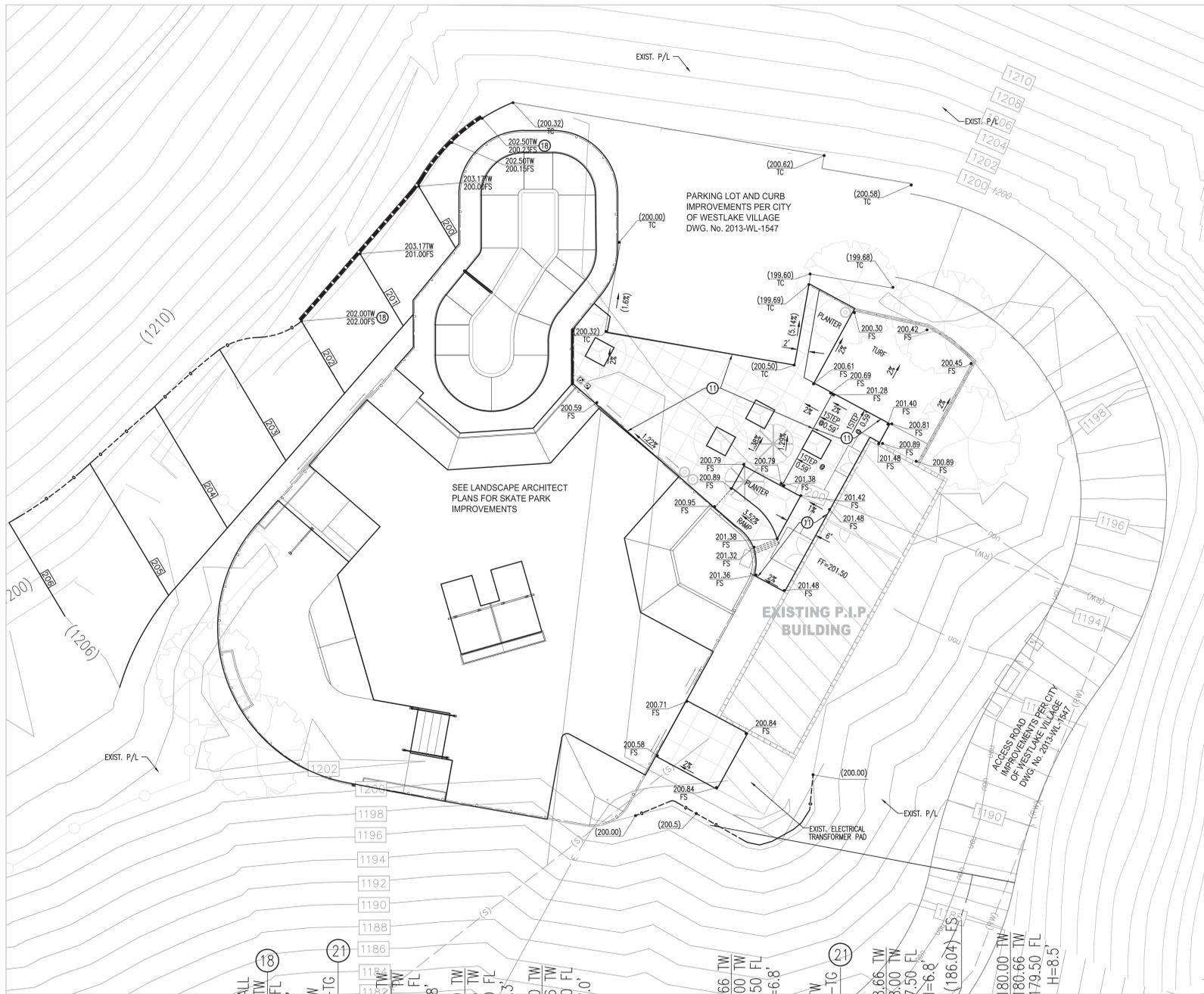
DATE	REVISION
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STAMP  
REGISTERED PROFESSIONAL ENGINEER  
No. 49158  
Expiration 09-30-16  
J. HALLSNER

CHECKED BY	DATE
MIG	10-16-2015
DRAWN BY	JOB NO.
WB	R19005.03

SHEET **PG-04A**  
SHT 8 OF 92 SHTS

**811**  
Know what's below. Call before you dig.  
DIAL TOLL FREE 8 1 1  
AT LEAST TWO DAYS BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



**RESTROOM**

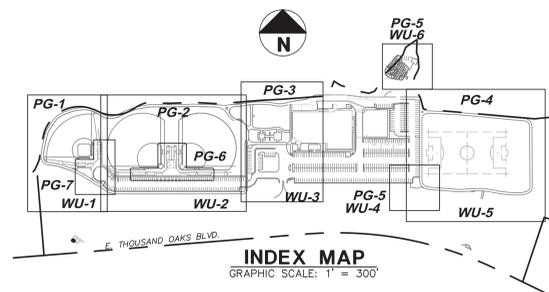
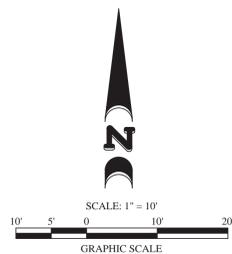
NOTE:  
FOR ALL PROPOSED ELEVATIONS ADD  
1,000 FEET.

Note: All excess dirt, either from the soccer fields or other work areas, shall be removed from the project site.

**SKATE PARK**

NOTE:  
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31107 East  
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CITY OF WLW  
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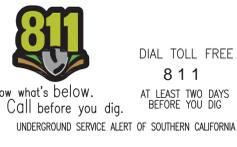
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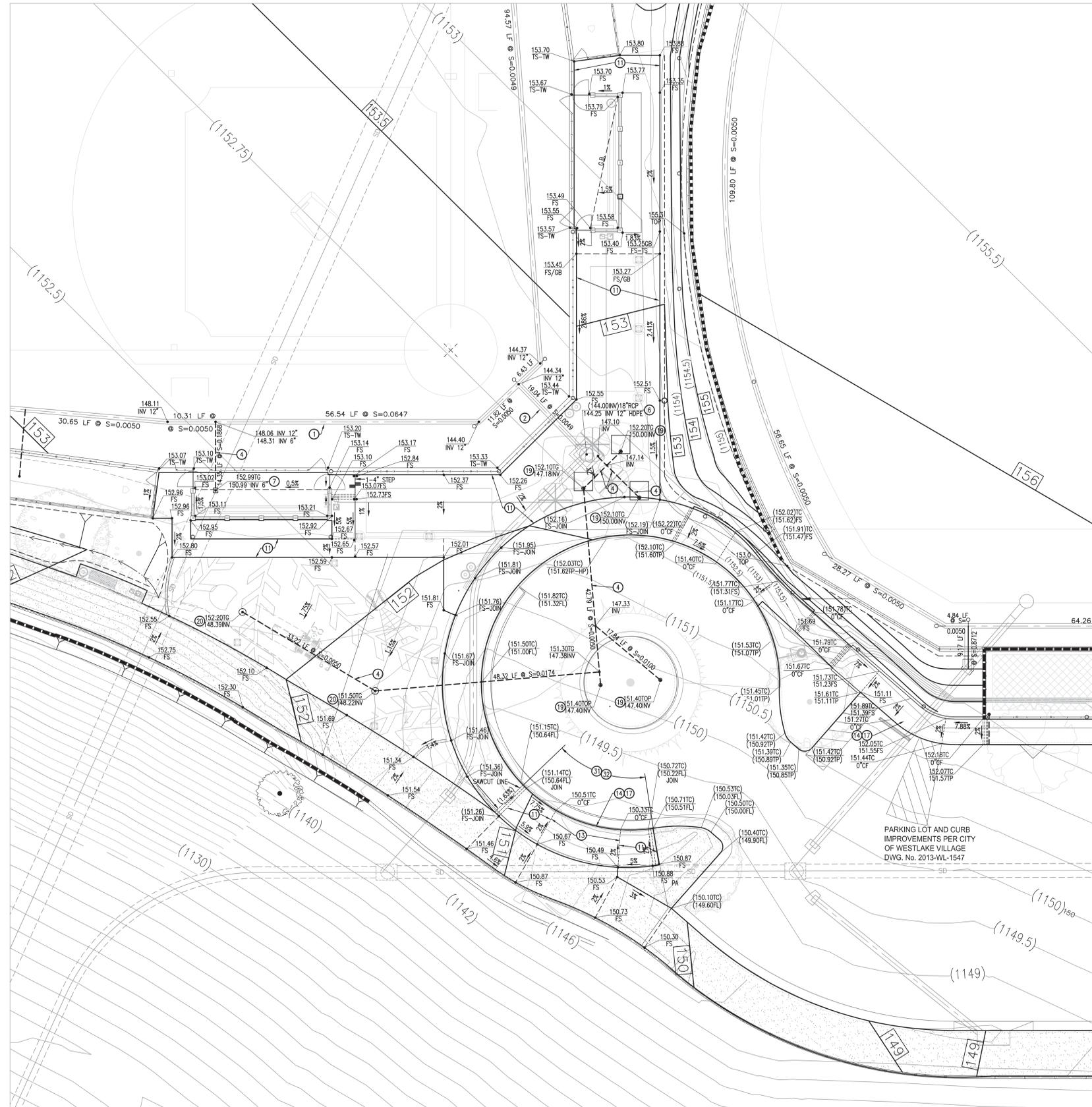
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No. 49158  
Expiration 09-30-16  
J. H. HALL

CHECKED BY	DATE
MJG	10-16-2015
DRAWN BY	JOB NO.
WB	R190095.03

SHEET  
**PG-05A**  
SHT 9 OF 92 SHTS



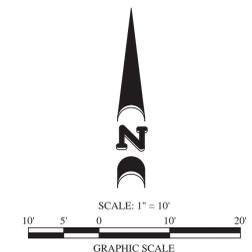


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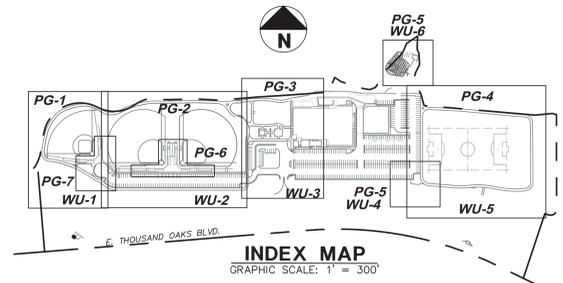
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---	EXISTING STORM DRAIN LINE
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AT LEAST TWO DAYS BEFORE YOU DIG

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109 W. UNION AVE. FULLERTON, CA 92832  
TEL: 714.871.9838 FAX: 714.871.1188 www.mig.com

---

CONSULTANT:

**HUNT-ZOLLARS, Inc.**  
90 East Thousand Oaks Blvd., Suite 201  
Thousand Oaks, California 91380  
P: (805) 418-1802 F: (805) 418-1819

---

PROJECT TEAM:  
LANDSCAPE ARCHITECT: **MOORE IACOFANO GOLTSMAN, INC.**  
CIVIL ENGINEER: **HUNT ZOLLARS**  
IRRIGATION DESIGN: **WILLIAMS IDC**  
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ARCHITECT (IN COLLABORATION): **CASTLE COOKE**  
WATG

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**WESTLAKE VILLAGE COMMUNITY PARK**

**PARK IMPROVEMENT PLANS**

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31107 East Thousand Oaks Blvd.  
Westlake Village, CA

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CITY OF WL  
PROJECT # 2013-WL-1546

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SHEET TITLE

**PRECISE GRADING AND DRAINAGE PLAN**

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STAMP

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CHECKED BY	DATE
MJG	10-16-2015
DRAWN BY	JOB NO.
WB	R190095.03

---

SHEET

**PG-07A**

SHT 11 OF 92 SHTS



DATE	REVISION



CHECKED BY	DATE
MJG	10-16-2015
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WB	R190095.03

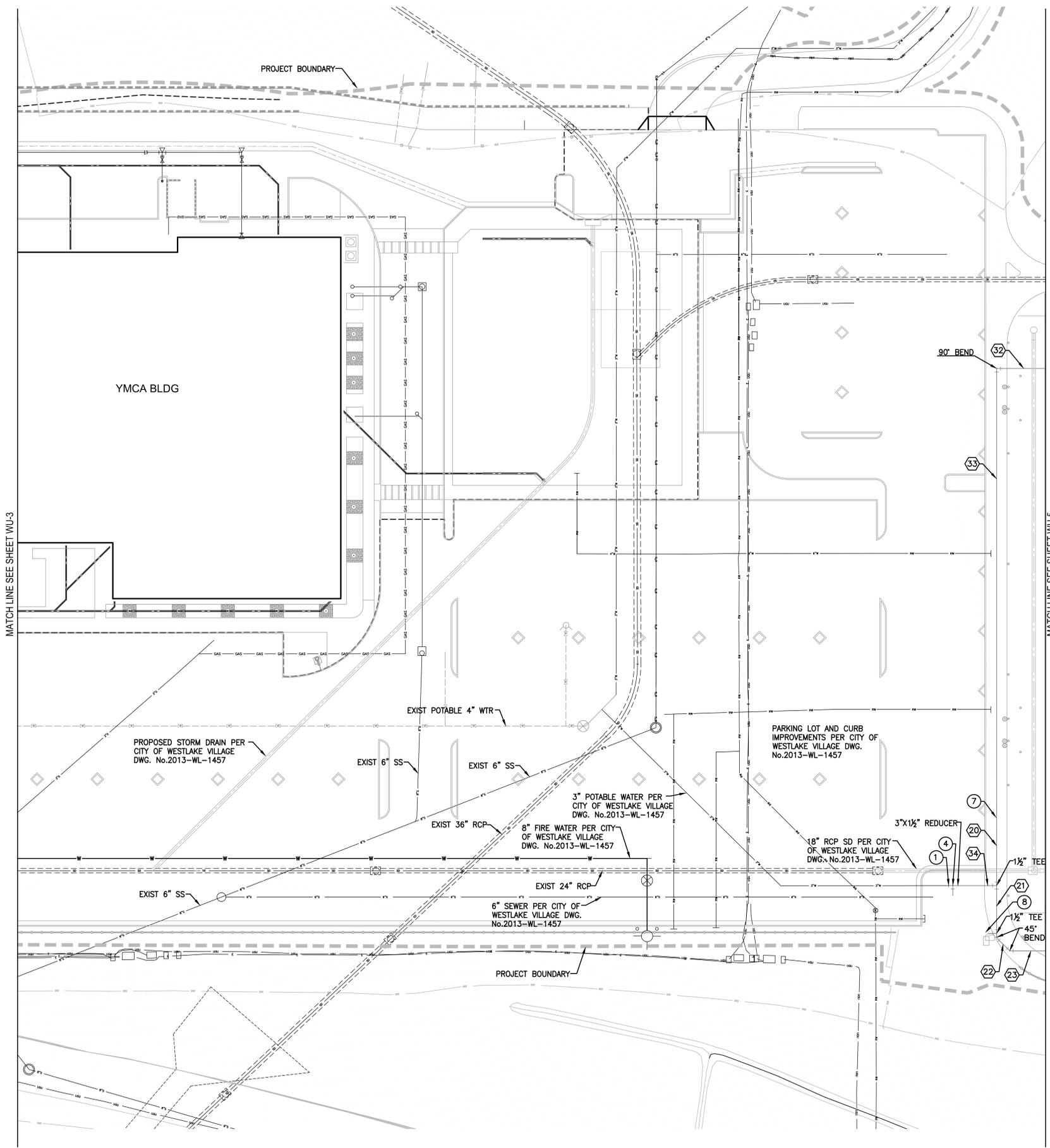
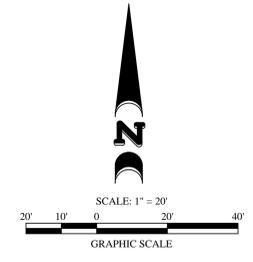
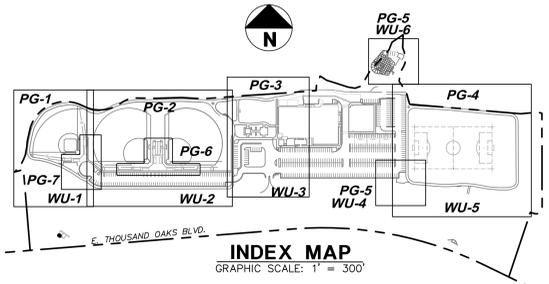
- DOMESTIC WATER CONSTRUCTION NOTES**
- REMOVE PLUG AND JOIN EXISTING WATERLINE.
  - INSTALL 3" WATER LINE SCHEDULE 40 PVC PIPE. 36" COVER UNLESS OTHERWISE NOTED.
  - INSTALL 3"x3"x1/2" TEE
  - INSTALL 3" TEE
  - INSTALL 3"x1/2"x1/2" TEE
  - INSTALL ELBOW AND THRUST BLOCK PER LMMW PLAN PW-133.
  - INSTALL 1/2" WATER LINE SCHEDULE 40 PVC PIPE. 36" COVER UNLESS NOTED.
  - DRINKING FOUNTAIN. SEE LANDSCAPE PLANS.
  - INSTALL WATER PLUG.
  - USE MECHANICAL RESTRAINTS ON ALL JOINTS WITHIN THE DISTANCE NOTED ON THE PLANS.
  - INSTALL 4"x4"x1/2" TEE

- SEWER CONSTRUCTION NOTES**
- INSTALL PRECAST CONCRETE SEWER MANHOLE PER SPPWC 200-3.
  - INSTALL 4" PVC SEWER, SLOPE PER PLAN.
  - INSTALL SEWER CLEANOUT PER SPPWC 204-2.
  - INSTALL 4" 45° WYE.
  - INSTALL 4" 45° BEND.

**WATER LINE DATA**

No.	BEARING	LENGTH
20	N00°00'00"W	35.09'
21	N00°00'00"W	21.62'
22	S45°00'00"E	8.28'
23	N90°00'00"E	35.32'
32	N90°00'00"E	40.32'
33	N00°00'00"W	233.85'
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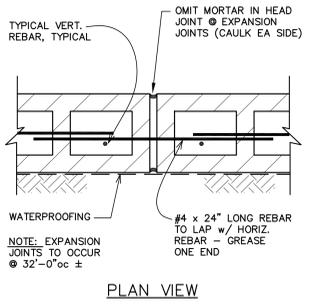
NOTE:  
 CONTRACTOR TO VERIFY JOIN LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD.



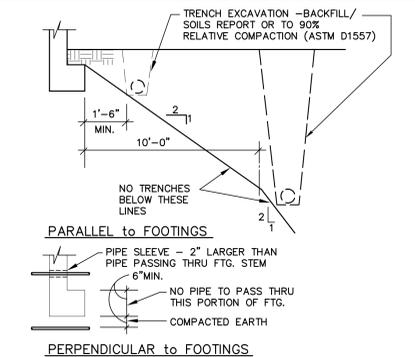
MATCH LINE SEE SHEET WU-3

MATCH LINE SEE SHEET WU-5

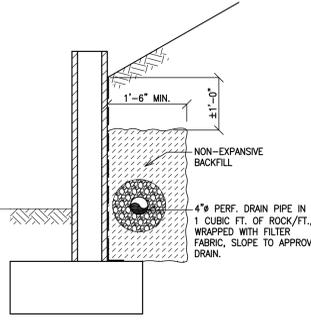




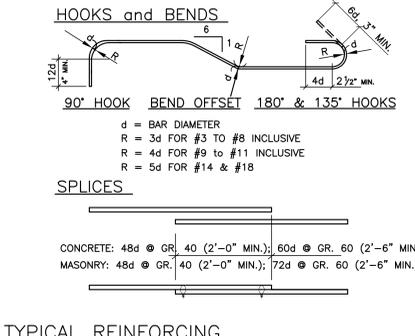
TYPICAL EXPANSION JOINT



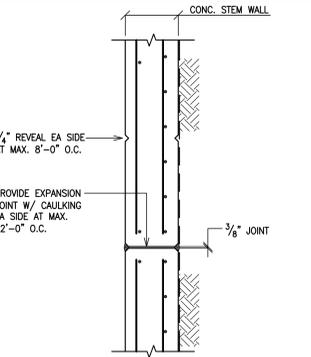
TRENCH DETAIL



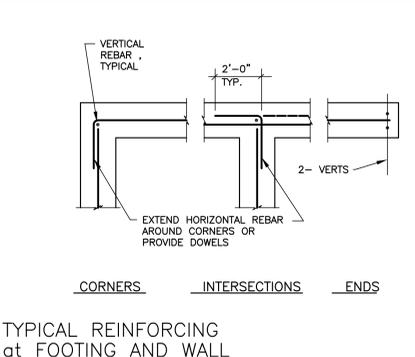
TYPICAL BACKFILL DETAIL



TYPICAL REINFORCING BAR DETAIL



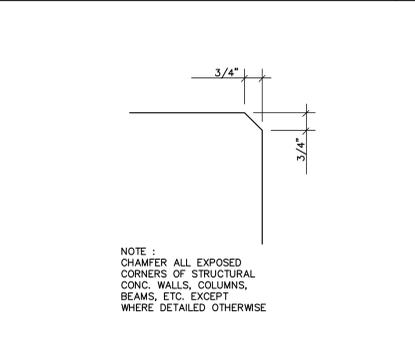
PLAN VIEW AT CONCRETE STEM WALL



TYPICAL REINFORCING AT FOOTING AND WALL



TYPICAL CONC. CHAMFER



TYPICAL CONC. CHAMFER

STEPPED FOOTING

MASONRY

- All masonry shall be reinforced grouted masonry (fm=1500 psi). Grout solid all cells which contain rebar, bolts, etc. Grout solid all cells below grade. See CBC 2105 for quality assurance requirements.
- Mortar shall be Type "S" mixed in the proportion of 1 part Portland Cement to 1/2 to 1/4 parts lime putty to 2 1/4 to 3 times the sum of the cement plus lime putty parts of sand. Full head and bed joints are required.
- Grout shall attain a minimum compressive strength of 2000 psi and shall be mixed in proportions of 1 part Portland Cement to 1/10 part lime putty to 2 to 3 parts sand to a maximum of 2 parts gravel. All grout shall be vibrated.
- Aggregates for mortar and grout shall be natural sand and rock conforming to ASTM C-144 (mortar) and C-404 (grout).
- Cement shall be Portland Cement conforming to ASTM C-150, Type I or II, low alkali.
- All concrete block shall conform to ASTM C90, medium weight.
- All reinforcement, bolts, etc. shall have a minimum grout coverage of 1/2". The clearance between bars in the same cell shall be at least 1 inch.
- All concrete block shall be laid in running bond.
- All rebar shall be positively held into position prior to pouring grout. All vertical foundation dowels shall be straight and match the same size and spacing as the vertical wall reinforcing u.n.o. Additional bars shall be epoxied into footings, if needed, where minimum tolerance to cell wall is not maintained or dowel is not positioned correctly. All vertical rebar shall be one piece full height of wall, u.n.o.
- If work is stopped for one hour or longer, provide horizontal construction joints by stopping the grout 1 1/2" below the top of the block.
- Use low lift grout technique unless specifically approved by the Building Department and the Structural Engineer.

DESIGN LOADS:

Soil:

ASP	3000 pcf
EFP	37 pcf
Friction	.35
Passive	150 pcf (200 pcf with eq loads)

Earthquake:

Risk Category	I
I	1.0
Ss	1.500
Si	.600
Site Class	D
Sos	1.00
Soi	.600
Design Category	D
Base Shear	.21 WT (ASD)
Analysis Procedure	Equivalent Lateral Force

GENERAL NOTES

FOUNDATIONS

- All existing fill soil and disturbed natural soils are to be excavated and replaced with properly compacted fill. All filling, backfilling, recompaction, etc. is to be accomplished only under the supervision of a soils engineer.
  - All excavations are to be inspected and approved by a Soils Engineer prior to the placement of any concrete or reinforcing steel.
  - Footings are to be carried a minimum of 24" into firm undisturbed natural soil or approved compacted fill.
  - Design bearing pressure is 3000 psf with a 33% increase for seismic or wind loading.
  - Relatively non-expansive fill should be used in backfilling behind walls. All walls shall be adequately shored during the backfill operation.
  - All excavations, grading, compaction, etc. shall be accomplished and performed in accordance with the letter as prepared by Geolabs-Westlake Village, W.O. 8939, dated November 23, 2015.
- This Soils Report and addendum is hereby made a part of these General Notes and all recommendations contained therein shall be considered as minimums.

CONCRETE

- Unless noted otherwise, all concrete shall attain a minimum compressive strength of 4500 psi at 28 days. Maximum water cement ratio shall be .45.
- Aggregates shall be natural sand and rock conforming to ASTM C53.
- Cement shall be Portland Cement conforming to ASTM C-150, Type II/V, low alkali.
- Water shall be potable, clean and free from injurious amounts of oils, acids, alkalis, salts, organic materials, or other substances that may be deleterious to concrete or reinforcement.
- Admixtures to be used in concrete shall be subject to prior approval by the Engineer.
- Maximum permissible water-cement ratios for concrete shall conform to Table 4.3.1. of ACI 318-11. Maximum slump shall be 5 inches for walls and footings.
- Concrete shall be cured while in a moist condition for at least the first 7 days after placement. Methods for accelerated curing shall have prior approval of the Engineer.
- The following minimum clear distances between reinforcing steel and face of concrete shall be maintained unless noted otherwise:
 

Concrete below grade, formed	2"
Concrete below grade, unformed (poured against earth)	3"
Concrete exposed to weather	1 1/2"
- Pipes may pass through structural concrete in sleeves, but shall not be embedded therein. Pipes or ducts exceeding one-third the slab or wall thickness shall not be placed in the structural concrete unless specifically detailed.
- Provide 3/4" chamfers at all exposed corners.
- Refer to landscape architectural drawings for reveals, areas of textured concrete or special finishes and items required to be cast into concrete.
- All concrete shall be vibrated.

FORMWORK, REMOVAL OF FORMS AND SHORES

- The Contractor shall design all forms and supporting shores in conformance with ACI 347-04. Design shall include rate and method of placing concrete and construction loads, including vertical, horizontal, and impact loads. Forms shall be substantial and sufficiently tight to prevent leakage of mortar and properly braced or tied to maintain position and shape.
- Forms shall be removed in such a manner as not to impair safety and serviceability of the structure. All concrete to be exposed by form removal shall have sufficient strength not to be damaged thereby. The ACI Committee 347 suggests the following minimum time forms and supports should remain in place under ordinary conditions:
 

Walls	12 Hours
-------	----------

 Reshore until 28 days after placement, and for full duration where construction loads exceed specified service loads. Reshore shall conform to ACI 347-04.

REINFORCING STEEL

- Reinforcing steel shall conform to ASTM A615, Grade 40 for size #3 and Grade 60 for sizes #4 and larger. Maximum yield shall not exceed 1.3 times that specified.
- Welding of reinforcing steel shall conform to AWS D12-1 using proper low hydrogen electrodes. All bars to be welded shall conform to ASTM A706.
- All bars in masonry shall be lapped a minimum of 48 bar diameters (2'-0" min.) for Grade 40 and 72 bar diameters (2'-6" min.) for Grade 60 at all splices unless noted otherwise.
- All bars in concrete shall be lapped a minimum of 48 bar diameters (2'-0" min.) for Grade 40 and 60 bar diameters (2'-6" min.) for Grade 60 at all splices unless noted otherwise.
- Splices of horizontal rebar in walls and footings shall be staggered 4'-0" minimum.
- Dowels for walls and columns shall be the same size and spacing as the wall/column reinforcing unless noted otherwise.
- All bending of reinforcing steel shall conform to the latest edition of the American Concrete Institute and CRSI.

GENERAL

- All construction and workmanship shall conform to the 2013 California Building Code.
- These notes shall be used in conjunction with the plans and any discrepancies shall be brought to the attention of the Landscape Architect/Engineer.
- Contractor must check all dimensions, framing conditions, and site conditions before starting work. Landscape Architect/Engineer shall be notified immediately of any discrepancies or possible deficiencies.
- Conditions not specifically shown shall be constructed similar to the details for the respective materials.
- The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, etc. is the sole responsibility of the contractor. Observation visits to the job site by the Landscape Architect/Engineer do not include inspection of construction procedures. The contractor is solely responsible for all construction methods and conditions at the worksite. These visits will not be construed as continuous and detailed inspections.
- Design, material, equipment, and products other than those described below or indicated on the drawings may be considered for use, provided prior approval is obtained from the Owner, Landscape Architect/Engineer, and the applicable governing code authority.

TESTS AND INSPECTIONS

- Continuous inspection by a registered deputy inspector is required for all field welding, concrete with a strength greater than 2500 psi, masonry and post-installed concrete and masonry anchors. The extent of such inspection shall conform to Chapter 17 of the California Building Code. An affidavit shall be issued to the Landscape Architect/Engineer and the Building Department at the completion of each type of work stating whether the work was in conformance with the approved plans and specifications. Concrete inspection may be limited to slump tests, compression tests, and inspection of placed rebar.
- The following items require inspection by a licensed Deputy Inspector:

ITEM	YES	NO
Post-Installed Anchors	✓	
Concrete	✓	
Masonry	✓	

\* Per Table 1.19.2

TABLE 1.19.2 TMS 402-11/ACI 530-11/ASCE 5-11

MINIMUM TESTS			
Inspection Task	Frequency	Reference for Criteria	
Verification of Slump, Flow and Moisture Stability Index (MSI) as delivered to the Project site in accordance with Specification Article 15.8.1.8.3 for air-consolidating grout.			
Verification of $f_m$ and $f_{m'}$ in accordance with Specification Article 1.4 B prior to construction, except where specifically exempted by this Code.			
MINIMUM INSPECTION			
Inspection Task	Frequency	Reference for Criteria	
1. Verify compliance with the approved submittals	Continuous	TMS 402/ACI 530/ASCE 5	Art. 1.5
2. As masonry construction begins, verify that the following are in compliance:			
a. Proportions of site-prepared mortar	X		Art. 2.1, 2.6 A
b. Construction of mortar joints	X		Art. 3.3 B
c. Grade and size of prestressing tendons and anchorages	X		Art. 2.4 B, 2.4 H
d. Location of reinforcement, connectors, and prestressing tendons and anchorages	X		Art. 3.4, 3.6 A
e. Prestressing technique	X		Art. 3.6 B
f. Properties of thin-bed mortar for AAC masonry	X (1)	X (2)	Art. 2.1 C
3. Prior to grouting, verify that the following are in compliance:			
a. Grout space	X		Art. 3.2 B, 3.2 F
b. Grade, type, and size of reinforcement and anchorages	X	Sec. 1.16	Art. 2.4, 3.4
c. Placement of reinforcement, connectors, and prestressing tendons and anchorages	X	Sec. 1.16	Art. 3.2 a, 3.4, 3.6 A
d. Proportions of site-prepared grout and prestressing grout for bonded tendons	X		Art. 2.6 B, 2.4 G.1.b
e. Construction of mortar joints	X		Art. 3.3 B
4. Verify during construction:			
a. Size and location of structural elements	X		Art. 3.3 F
b. Type, size, and location of anchors including other details of anchorage, frames, or other construction	X	Sec. 1.16.4.3, 1.17.1	
c. Welding of reinforcement	X	Sec. 2.1.7.2, 3.3.4 (c), 8.3.4 (b)	
d. Preparation, construction, and protection of masonry during 28F curing or wet weather (temperature above 50F (32.2C))	X		Art. 1.8 G, 1.8 D
e. Application and measurement of prestressing force	X		Art. 3.6 B
f. Placement of grout and prestressing grout for bonded tendons is in compliance	X		Art. 3.5, 3.6 C
g. Placement of AAC masonry units and construction of thin-bed mortar joints	X (1)	X (2)	Art. 3.3 B.8
5. Observe preparation of grout specimens, mortar specimens, and/or prisms	X		Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

(1) Frequency refers to the frequency of inspection, which may be continuous during the task listed or periodically during the listed task, as defined in the table.  
(2) Required for the first 2000 square feet (460 square meters) of AAC masonry.  
(3) Required after the first 2000 square feet (460 square meters) of AAC masonry.

**MIG**

MOORE IACOFANO GOLTSMAN, INC.  
100 W. UNION AVE.  
PALMDALE, CA 93550

TEL: 714.871.0328  
FAX: 714.871.1188  
WWW.MIGCORP.COM

CONSULTANT:

**CORREIA**  
CONSULTING & DESIGN  
STRUCTURAL ENGINEERS

5762 Bolsa Avenue, Suite 215  
Huntington Beach, CA 92649  
PH: 714 891-1555  
FAX: 714 891-5501

PROJECT TEAM:

LANDSCAPE ARCHITECT  
MOORE IACOFANO GOLTSMAN, INC.

CIVIL ENGINEER  
HUITT ZOLLARS

IRRIGATION DESIGN  
WILLIAMS IDC

ELECTRICAL ENGINEER  
LRA ENGINEERS

SKATEPARK DESIGN  
TERRY VALLES

STRUCTURAL ENGINEER  
CORREIA CONSULTING AND DESIGN

ARCHITECT (IN COLLABORATION)  
CASTLE COOKE

WATG

WESTLAKE VILLAGE COMMUNITY PARK

PARK IMPROVEMENT PLANS

31107 East Thousand Oaks Blvd.  
Westlake Village, CA

CITY OF WL  
PROJECT # 2013-WL-1546

SHEET TITLE

GENERAL NOTES

TYPICAL DETAILS

STAMP

REGISTERED PROFESSIONAL ENGINEER  
No. 2132  
Exp. 12/31/15  
STATE OF CALIFORNIA

CHECKED BY: WC DATE: 11-18-15

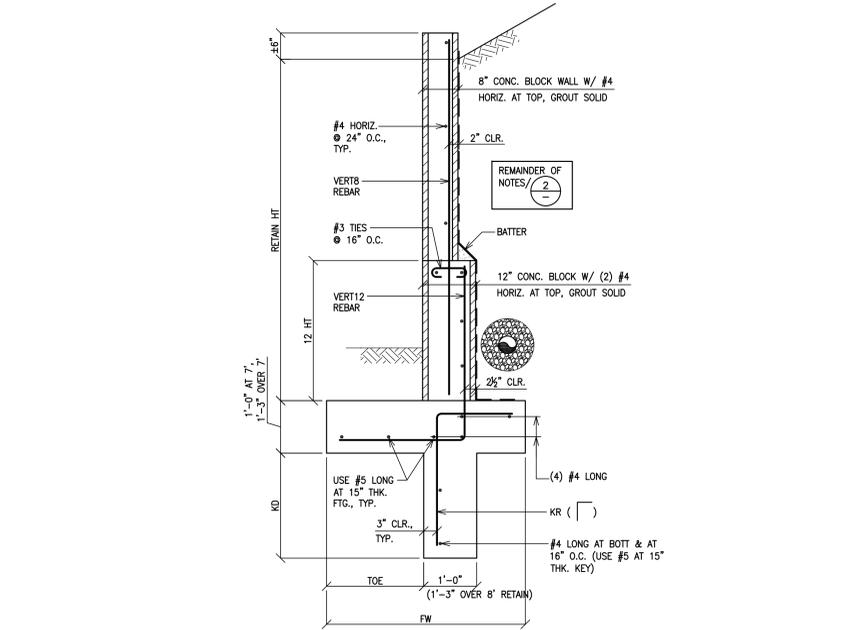
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SHEET

S-1

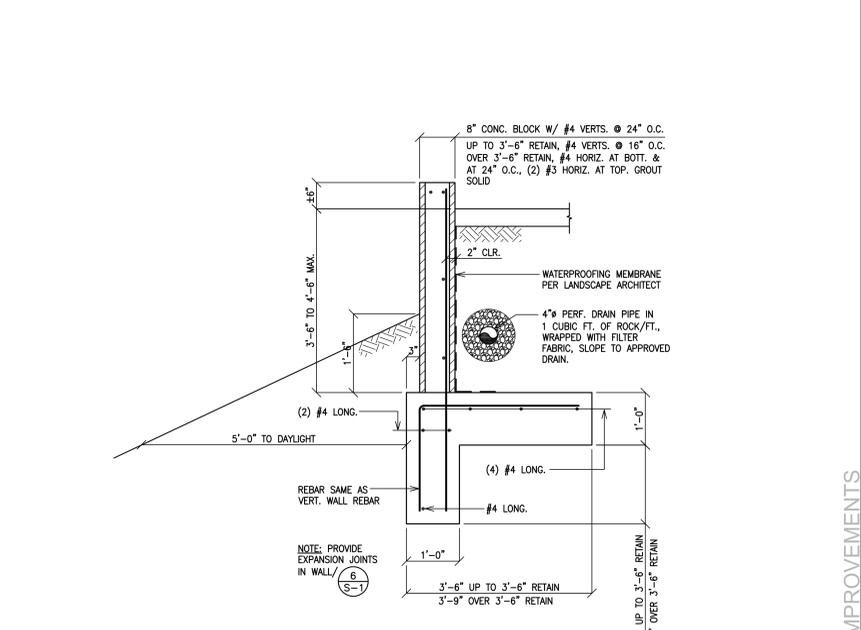
SHT XX OF XX SHTS

100% CONSTRUCTION DOCUMENT SUBMITTAL - PHASE 1B-ELECTRICAL IMPROVEMENTS



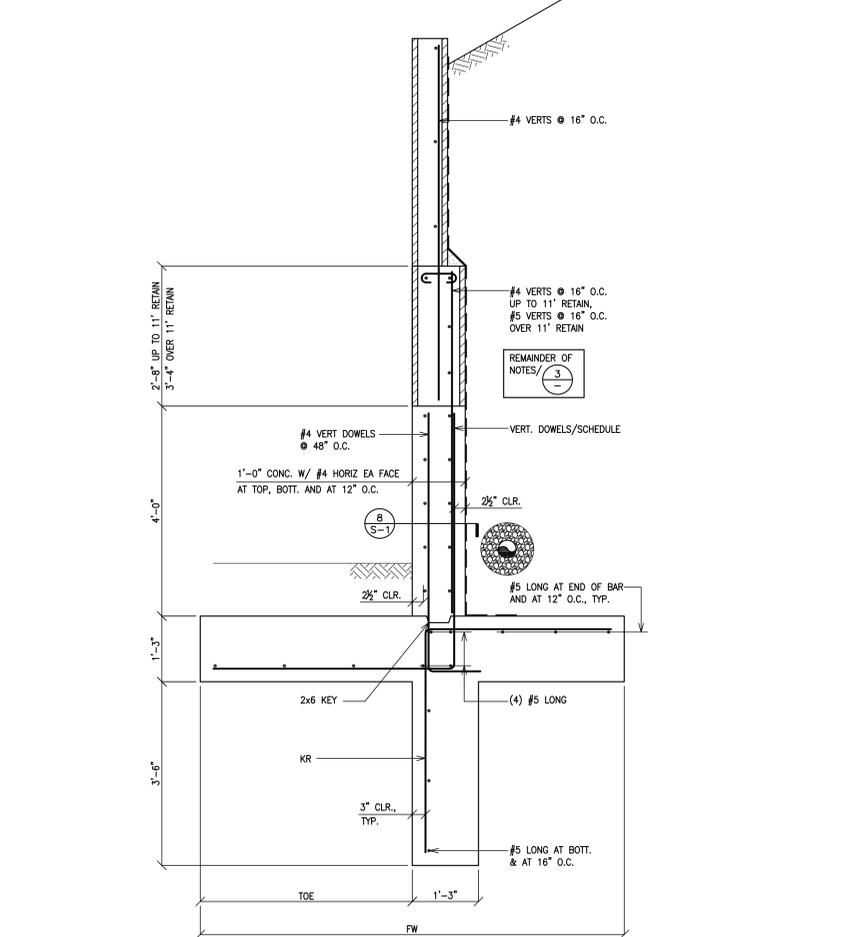
SCHEDULE							
RETAIN HT.	VERT. 12 REBAR	VERT. 8 REBAR	KR	FW	TOE	KD	12HT
7'-0"	#4 @ 16" O.C.	#4 @ 32" O.C.	#4 @ 24" O.C.	4'-9"	24"	24"	32"
8'-0"	#5 @ 16" O.C.	#4 @ 16" O.C.	#5 @ 16" O.C.	5'-3"	27"	27"	40"
9'-0"	#5 @ 8" O.C.	#4 @ 16" O.C.	#5 @ 16" O.C.	6'-0"	36"	36"	40"
10'-0"	#5 @ 8" O.C.	#4 @ 16" O.C.	#5 @ 16" O.C.	6'-9"	39"	42"	48"

3 RETAINING WALLS 7'-10' (2:1 BACKFILL)



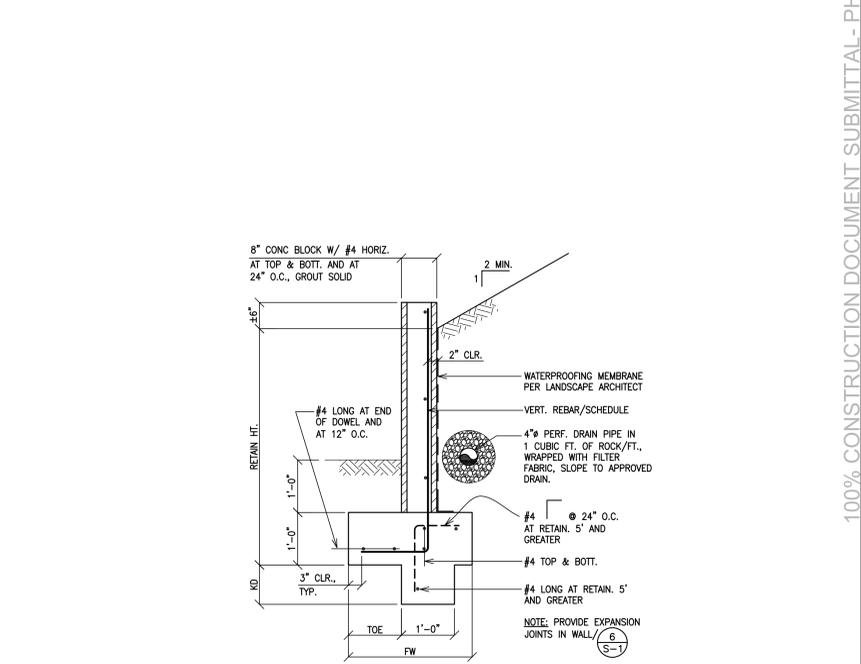
SCHEDULE				
RETAIN HT.	VERT. REBAR	FW	TOE	KD
3'-0"	#4 @ 32" O.C.	2'-0"	8"	0
4'-0"	#4 @ 24" O.C.	2'-9"	12"	9"
5'-0"	#4 @ 24" O.C.	3'-6"	15"	12"
6'-0"	#4 @ 16" O.C.	4'-0"	21"	18"

4 RETAINING WALLS 3'-6' (2:1 BACKFILL)



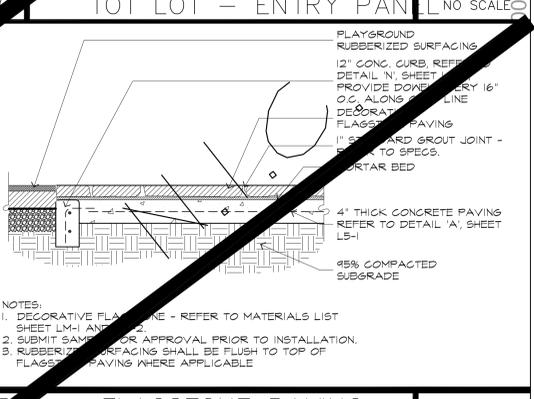
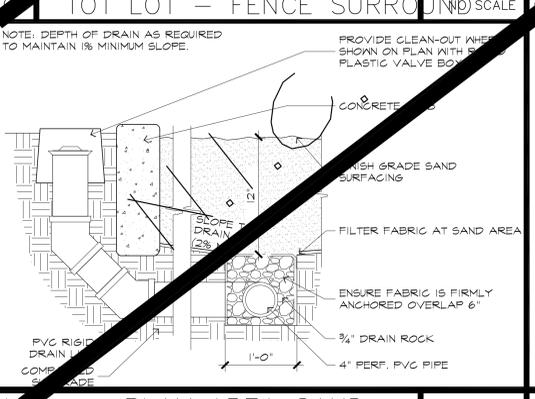
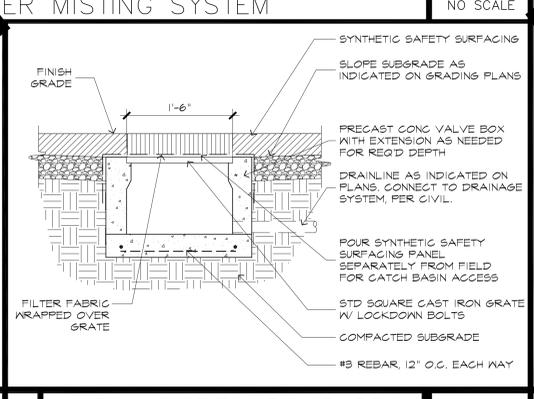
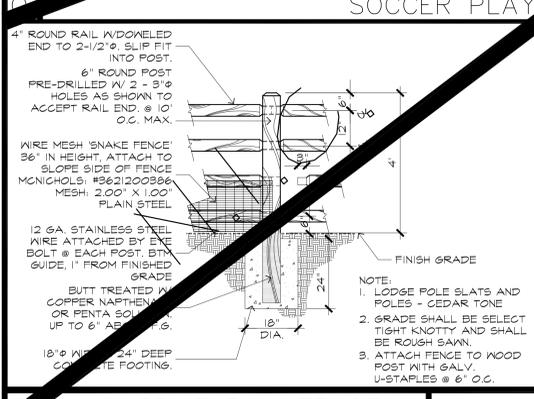
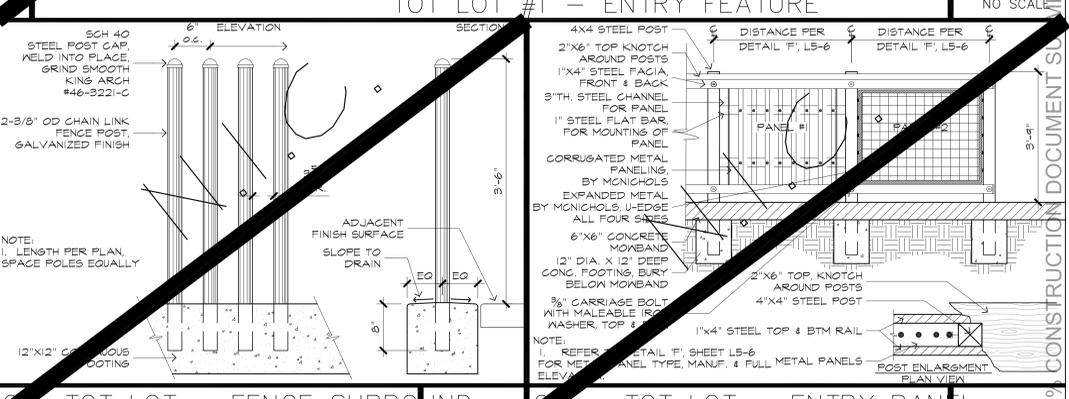
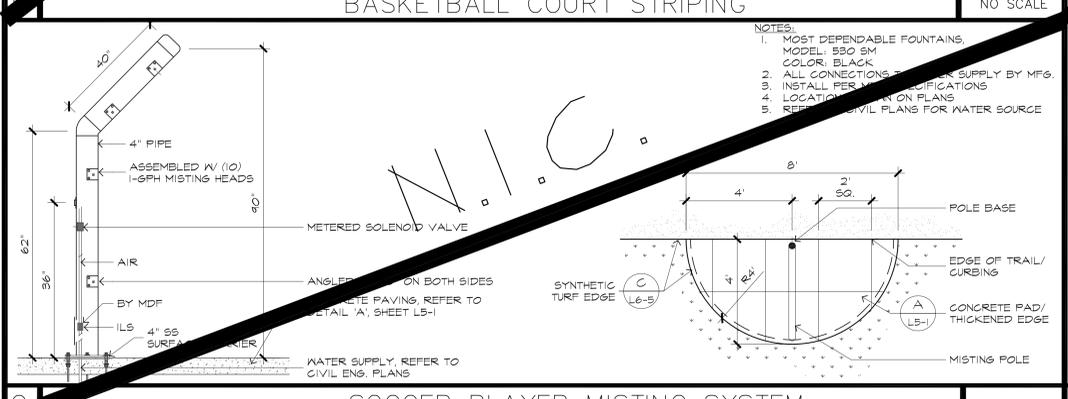
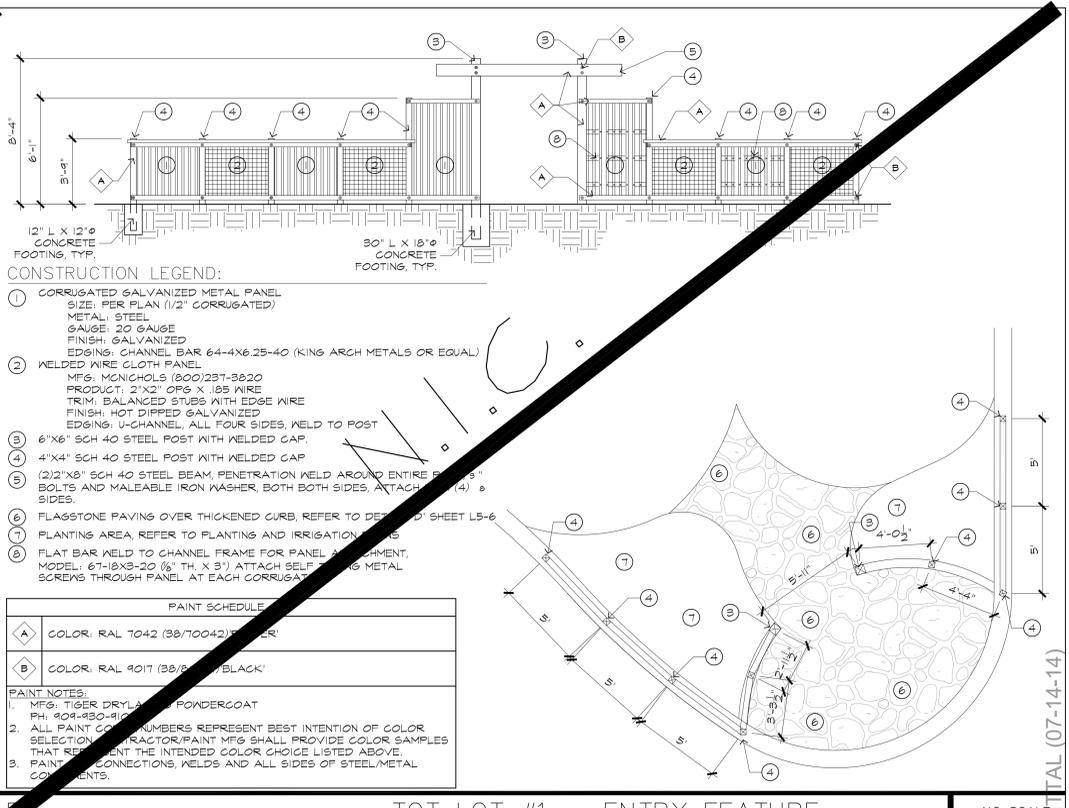
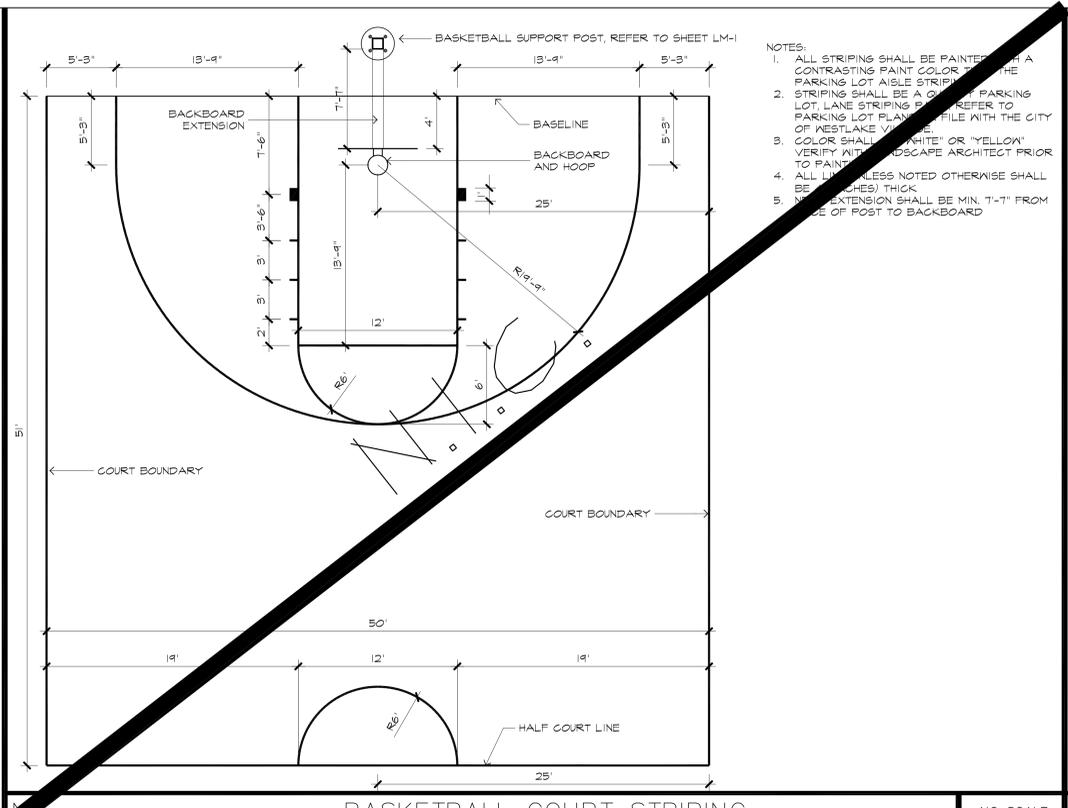
SCHEDULE				
RETAIN HT.	VERT. DOWELS	KR	FW	TOE
11'-0"	#5 @ 8" O.C.	#5 @ 8" O.C.	8'-0"	4'-0"
12'-0"	#7 @ 8" O.C.	#7 @ 8" O.C.	12'-6"	6'-6"

4 RETAINING WALLS 11'-12' (2:1 BACKFILL)

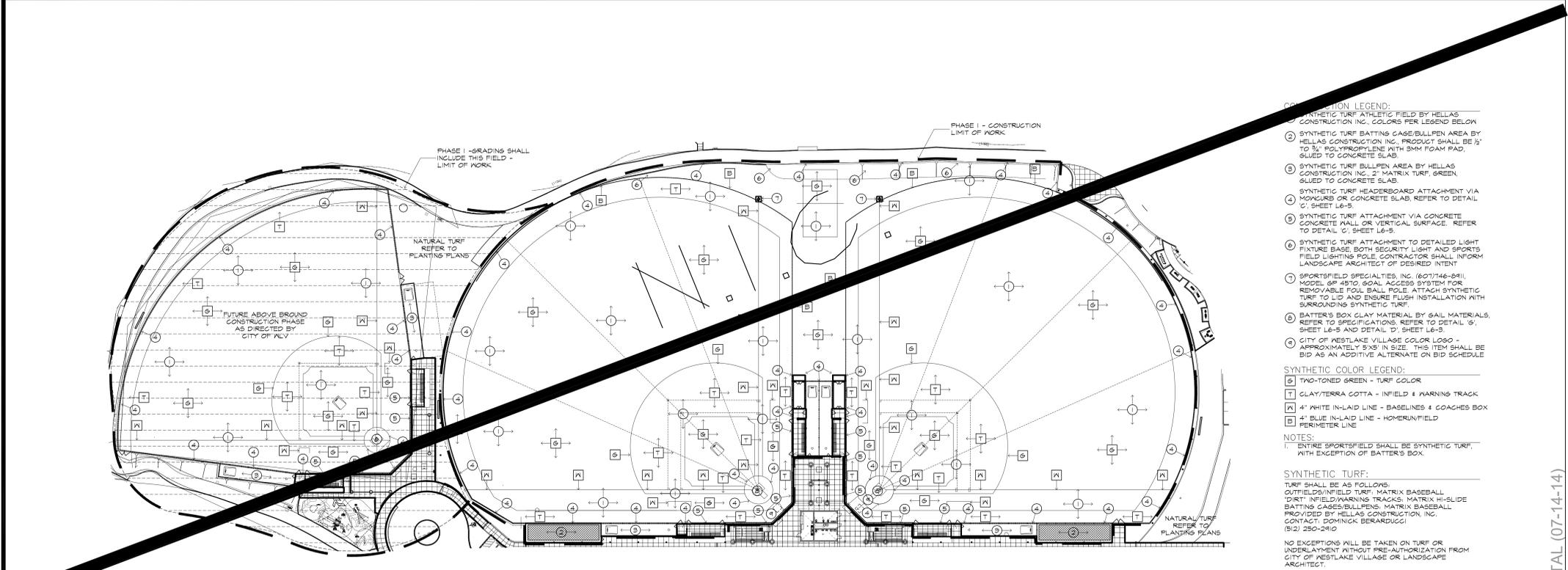


SCHEDULE				
RETAIN HT.	VERT. REBAR	FW	TOE	KD
3'-0"	#4 @ 32" O.C.	2'-0"	8"	0
4'-0"	#4 @ 24" O.C.	2'-9"	12"	9"
5'-0"	#4 @ 24" O.C.	3'-6"	15"	12"
6'-0"	#4 @ 16" O.C.	4'-0"	21"	18"

2 RETAINING WALLS 3'-6' (2:1 BACKFILL)

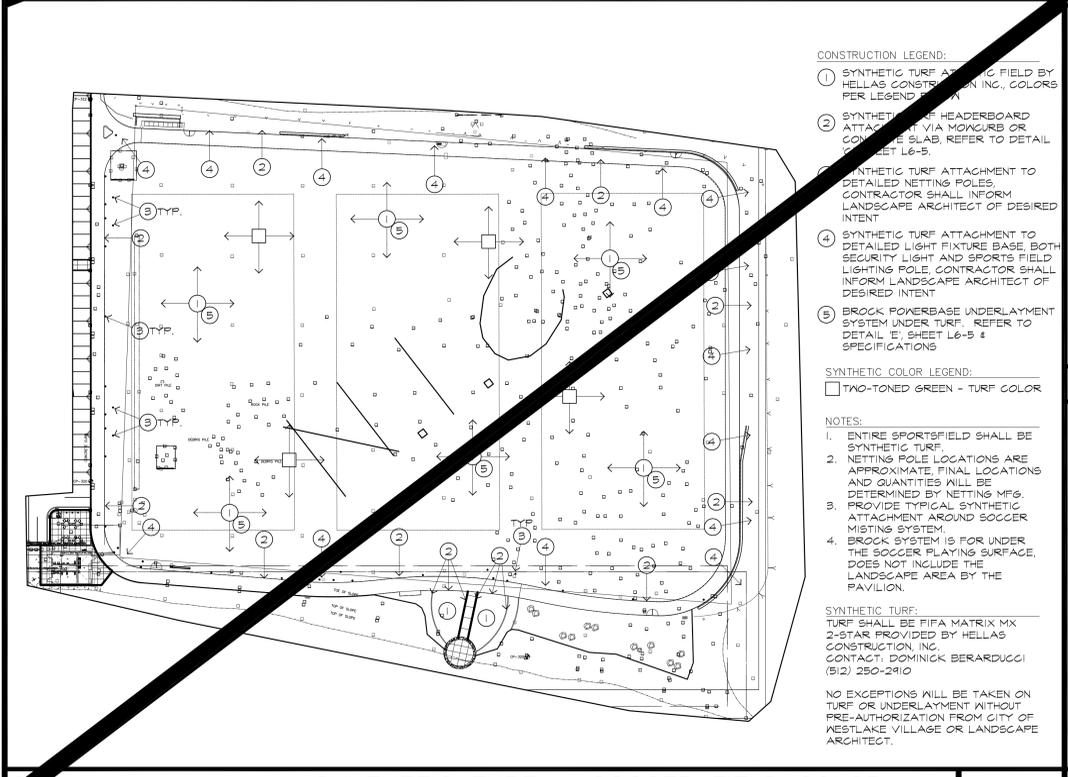


CONSTRUCTION DOCUMENT SUBMITTAL (07-14-14)



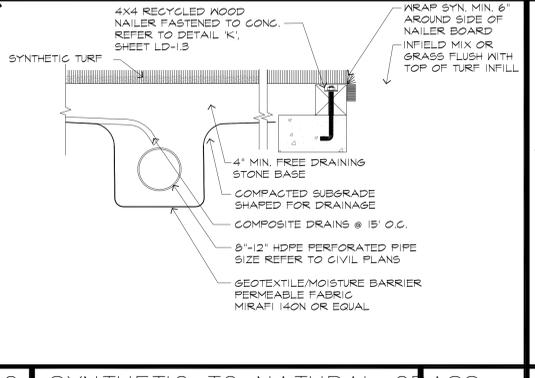
- CONSTRUCTION LEGEND:**
- 1 SYNTHETIC TURF ATTACHMENT TO FIELD BY HELLAS CONSTRUCTION INC., COLORS PER LEGEND BELOW
  - 2 SYNTHETIC TURF BATTING CASE/BULLPEN AREA BY HELLAS CONSTRUCTION INC., PRODUCT SHALL BE 1/2" TO 3/4" POLYPROPYLENE WITH 3MM FOAM PAD, GLUED TO CONCRETE SLAB
  - 3 SYNTHETIC TURF BULLPEN AREA BY HELLAS CONSTRUCTION INC., 2" MATRIX TURF, GREEN, GLUED TO CONCRETE SLAB
  - 4 SYNTHETIC TURF HEADERBOARD ATTACHMENT VIA MOWCURE OR CONCRETE SLAB, REFER TO DETAIL 'C', SHEET L6-5
  - 5 SYNTHETIC TURF ATTACHMENT VIA CONCRETE CONCRETE WALL OR VERTICAL SURFACE, REFER TO DETAIL 'C', SHEET L6-5
  - 6 SYNTHETIC TURF ATTACHMENT TO DETAILED LIGHT FIXTURE BASE, BOTH SECURITY LIGHT AND SPORTS FIELD LIGHTING POLE, CONTRACTOR SHALL INFORM LANDSCAPE ARCHITECT OF DESIRED INTENT
  - 7 SPORTSFIELD SPECIALTIES, INC. (607)746-8911, MODEL 6P 4570, GOAL ACCESS SYSTEM FOR REMOVABLE FOUL BALL POLE, ATTACH SYNTHETIC TURF TO LID AND ENSURE FLUSH INSTALLATION WITH SURROUNDING SYNTHETIC TURF.
  - 8 BATTER'S BOX CLAY MATERIAL BY GAIL MATERIALS, REFER TO SPECIFICATIONS, REFER TO DETAIL 'G', SHEET L6-5 AND DETAIL 'D', SHEET L6-5
  - 9 CITY OF WESTLAKE VILLAGE COLOR LOGO - APPROXIMATELY 3' IN SIZE. THIS ITEM SHALL BE BID AS AN ADDITIVE ALTERNATE ON BID SCHEDULE
- SYNTHETIC COLOR LEGEND:**
- 1 TWO-TONED GREEN - TURF COLOR
  - 2 CLAY/TERRA COTTA - INFIELD & WARNING TRACK
  - 3 4" WHITE IN-LAID LINE - BASELINES & GOACHES BOX
  - 4 BLUE IN-LAID LINE - HOMERUNFIELD
  - 5 PERIMETER LINE
- NOTES:**
- 1 ENTIRE SPORTSFIELD SHALL BE SYNTHETIC TURF, WITH EXCEPTION OF BATTER'S BOX.
- SYNTHETIC TURF:**
- TURF SHALL BE AS FOLLOWS:  
 OUTFIELDS/INFIELD TURF: MATRIX BASEBALL  
 DIRT INFIELD/WARNING TRACKS: MATRIX W/SLIDE  
 BATTING CASES/BULLPENS: MATRIX BASEBALL  
 PROVIDED BY HELLAS CONSTRUCTION, INC.  
 CONTACT: DOMINICK BERARDUCCI (512) 250-2410
- NO EXCEPTIONS WILL BE TAKEN ON TURF OR UNDERLAYMENT WITHOUT PRE-AUTHORIZATION FROM CITY OF WESTLAKE VILLAGE OR LANDSCAPE ARCHITECT.

BASEBALL FIELD - SYNTHETIC TURF COLOR

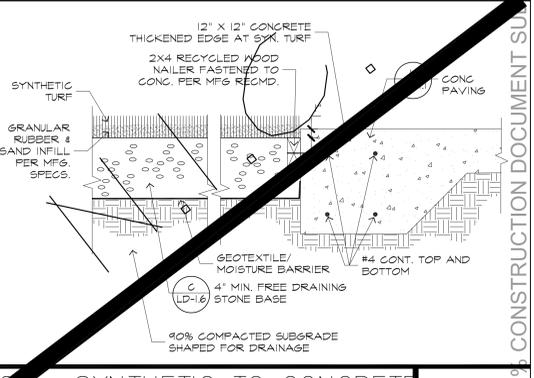


- CONSTRUCTION LEGEND:**
- 1 SYNTHETIC TURF ATTACHMENT TO FIELD BY HELLAS CONSTRUCTION INC., COLORS PER LEGEND BELOW
  - 2 SYNTHETIC TURF HEADERBOARD ATTACHMENT VIA MOWCURE OR CONCRETE SLAB, REFER TO DETAIL 'C', SHEET L6-5
  - 3 SYNTHETIC TURF ATTACHMENT TO DETAILED NETTING POLES, CONTRACTOR SHALL INFORM LANDSCAPE ARCHITECT OF DESIRED INTENT
  - 4 SYNTHETIC TURF ATTACHMENT TO DETAILED LIGHT FIXTURE BASE, BOTH SECURITY LIGHT AND SPORTS FIELD LIGHTING POLE, CONTRACTOR SHALL INFORM LANDSCAPE ARCHITECT OF DESIRED INTENT
  - 5 BROCK POWERBASE UNDERLAYMENT SYSTEM UNDER TURF, REFER TO DETAIL 'E', SHEET L6-5 & SPECIFICATIONS
- SYNTHETIC COLOR LEGEND:**
- 1 TWO-TONED GREEN - TURF COLOR
- NOTES:**
- 1 ENTIRE SPORTSFIELD SHALL BE SYNTHETIC TURF
  - 2 NETTING POLE LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS AND QUANTITIES WILL BE DETERMINED BY NETTING MFG.
  - 3 PROVIDE TYPICAL SYNTHETIC TURF ATTACHMENT AROUND SOCCER MISTING SYSTEM.
  - 4 BROCK SYSTEM IS FOR UNDER THE LANDSCAPE PLAYING SURFACE, DOES NOT INCLUDE THE LANDSCAPE AREA BY THE PAVILION.
- SYNTHETIC TURF:**
- TURF SHALL BE FIFA MATRIX MX 2-STAR PROVIDED BY HELLAS CONSTRUCTION, INC.  
 CONTACT: DOMINICK BERARDUCCI (512) 250-2410
- NO EXCEPTIONS WILL BE TAKEN ON TURF OR UNDERLAYMENT WITHOUT PRE-AUTHORIZATION FROM CITY OF WESTLAKE VILLAGE OR LANDSCAPE ARCHITECT.

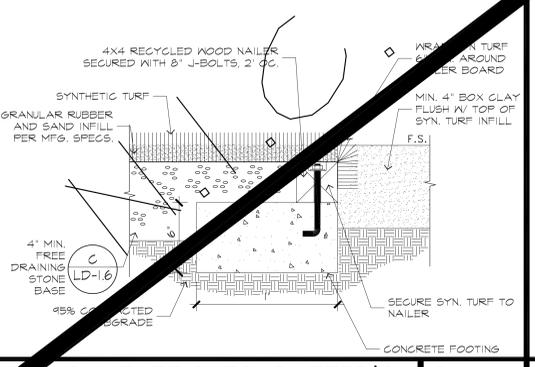
SYNTHETIC TURF - SOCCER FIELD COLOR



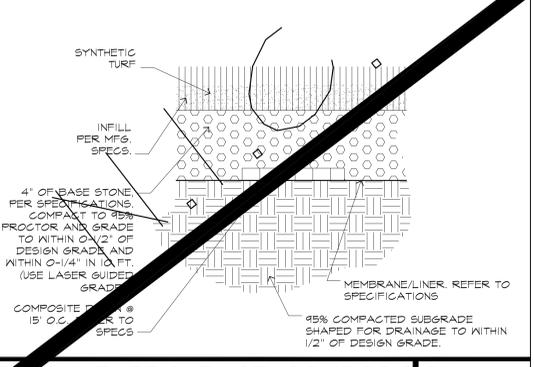
SYNTHETIC TO NATURAL GRASS



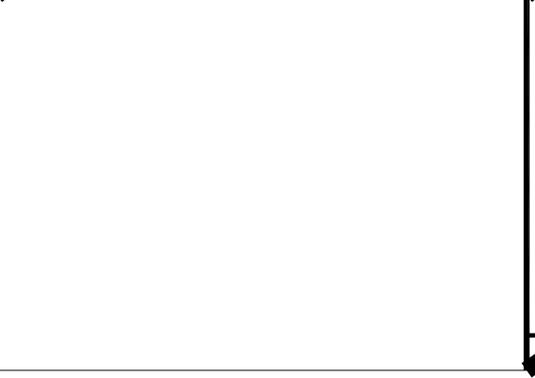
SYNTHETIC TO CONCRETE



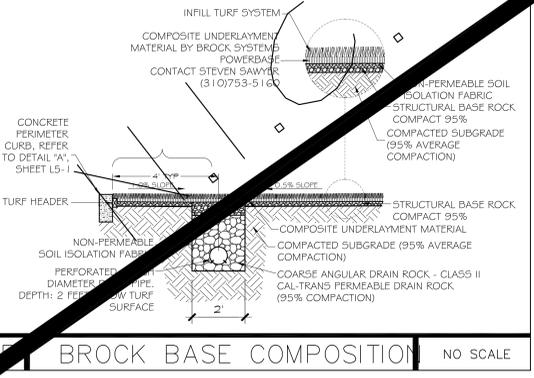
SYNTHETIC TO BATTER'S BOX



SYNTHETIC BASE COMPOSITION



BROCK BASE COMPOSITION



BROCK BASE COMPOSITION

