

APPROVED

APR 02 2020

BOARD OF RECREATION AND PARK COMMISSIONERS

BOARD REPORT

NO. 20-045

DATE April 02, 2020

C.D. 9

BOARD OF RECREATION AND PARK COMMISSIONERS

SUBJECT: TRINITY RECREATION CENTER – SKATE PARK AND SITE IMPROVEMENTS PROJECT (PRJ21248) PROJECT – APPROVAL OF THE DESIGN; CATEGORICAL EXEMPTION FROM THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) PURSUANT TO ARTICLE III, SECTION 1, CLASS 1(3) [MINOR ALTERATION OF EXISTING PEDESTRIAN TRAILS], CLASS 1(12) [OUTDOOR LIGHTING FOR SECURITY], CLASS 3(6) [NEW CONSTRUCTION OF ACCESSORY STRUCTURES], CLASS 4(3) [TREE PLANTING AND LANDSCAPING], CLASS 4(12) [MINOR TRENCHING AND BACKFILLING] AND CLASS 11(6) [PLACEMENT OF MINOR STRUCTURES ACCESSORY TO EXISTING FACILITIES] OF CITY CEQA GUIDELINES AND ARTICLE 19, SECTIONS 15301(c), 15303(e), 15304(b), 15304(f) AND 15311 OF CALIFORNIA CEQA GUIDELINES

AP Diaz	_____	S. Piña-Cortez	_____
H. Fujita	_____	* C. Santo Domingo	<u>DP</u>
V. Israel	_____	N. Williams	_____



 General Manager

Approved X Disapproved _____ Withdrawn _____

RECOMMENDATIONS

1. Approve the scope of work for the Trinity Recreation Center Skate Park And Site Improvements Project (PRJ21248) (Project), as on file with the Board of Recreation and Park Commissioners (Board) Office and as attached as Attachment 1 to this Report, and authorize Department of Recreation and Parks (RAP) staff to go out to bid for the construction of the Project through RAP's on call contractor list;
2. Authorize RAP staff to commit from the following Transfer of Floor Area Rights (TFAR) fund a maximum of Four Hundred Ninety-Eight Thousand, Six Hundred Forty-Four Dollars (\$498,644.00) for the Project;
3. Find that the proposed Project is categorically exempt from the provisions of the California Environmental Quality Act (CEQA), pursuant to Article III, Section 1, Class 1(3) [Minor alteration of existing pedestrian trails], Class 1(12) [Outdoor lighting for security], Class 3(6) [New construction of accessory structures], Class 4(3) [Tree planting and landscaping], Class 4(12) [Minor trenching and backfilling] and Class 11(6) [Placement of minor structures accessory to existing facilities] of City CEQA guidelines and Article 19,

BOARD REPORT

PG. 2 NO. 20-045

Sections 15301(c), 15303(e), 15304(b), 15304(f) and 15311 of California CEQA guidelines and direct RAP staff to file a Notice of Exemption (NOE);

4. Authorize RAP's Chief Accounting Employee to prepare a check to the Los Angeles County Clerk in the amount of Seventy-Five Dollars (\$75.00) for the purpose of filing an NOE; and,
5. Authorize RAP's Chief Accounting Employee to make technical corrections as necessary to carry out the Intent of this Report.

SUMMARY

Trinity Recreation Center is located at 2415 Trinity Street in the South Los Angeles community of the City. This 2.06-acre park features children's play areas, basketball courts, outdoor fitness, equipment, and a gymnasium. An estimated 13,068 residents live within a 1/2 mile walking distance of Trinity Recreation Center. Due to the facilities, features and programs, and services it provides, Trinity Recreation Center meets the standard for a Community Park, as defined in the City's Public Recreation Plan.

PROJECT SCOPE

The proposed Project consists of the development of a new skate park, which will be located in the south side of the park immediately west of the recreation center adjacent to East 25th Street. Attachment 1 details the scope of work, including its general form and provided skate features, a 3,000 square-foot poured-in-place, above ground concrete skate park. In addition, there will be security lighting, re-sodding of the adjacent turf area, new sustainable planting and irrigation, 13 new trees for shade, an accessible path of travel and accessible hydrations station. Attachment 2 shows the location of the skate park.

The Project was presented to the Facility Repair and Maintenance Task Force (Task Force) on March 5, 2020. The Task Force recommended that the proposed Project move forward for the Board's consideration.

PROJECT FUNDING

Upon approval of this Report, Four Hundred Ninety-Eight Thousand, Six Hundred Forty-Four Dollars (\$498,644.00) dollars in TFAR funds (Council File (CF) #14-1411-S3 Mayor Approved on 07/16/2018) will be available for the project

The estimated cost of the proposed Project including soft cost, administration cost, contingency cost, and construction cost, is Four Hundred Fifty Thousand Dollars (\$450,000)

BOARD REPORT

PG. 3 NO. 20-045

The total funding available for the proposed Project is Four Hundred Ninety Eight Thousand Six Hundred Forty Four Dollars (\$498,644.00) available from TFAR Funds as indicated below.

FUNDING SOURCE MATRIX

Source	Fund/Dept/Acct	Amount	Percentage
TFAR	205/88/88RMDM	\$498,644	100%
Total		\$498,644	100%

PROJECT CONSTRUCTION

RAP staff has determined that there is sufficient funding to cover the proposed Project scope of work and anticipates a construction start date in spring of 2020. Construction is estimated to take 6-8 months to complete.

TREES AND SHADE

The impact on existing trees is minimal though 4 existing trees will have to be removed. 3 of the existing trees have reached maturity and have been extremely compromised by the surrounding hardscape conditions. The third tree is dead and needs to be removed as it poses a public safety hazard. The 13 new trees that will be planted to provide additional shade canopy for the skate park and park in general are: 4 Texas Red Oak 36" box and 9 Evergreen Pear Tree 36".

COMMUNITY OUTREACH:

There were community outreach meetings held on June 24, 2019 and October 30, 2019 with Council District 9 to discuss project scope and design and to get community input on the proposed Project. Out of these meetings came a consensus of support for the project.

ENVIRONMENTAL IMPACT

The proposed Project consists of minor alterations to existing walkway and installation of new lighting for security and operations; of the construction of a new structure accessory to a park; of landscaping and planting new trees, as well as of minor trenching and backfilling, and of the installation of new minor accessory structures. As such, RAP staff recommends the Board determines the Project is exempt from the provisions of CEQA pursuant to Article III, Section 1, Class 1(3), Class 1(12), Class 3(6), Class 4(3), Class 4(12) and Class 11(6) of the City CEQA Guidelines and Article 19, Sections 15301(c), 15303(e), 15304 (b), 15304(f) and 15311 of California CEQA Guidelines. An NOE will be filed with the Los Angeles County Clerk upon approval of this Report.

BOARD REPORT

PG. 4 NO. 20-045

FISCAL IMPACT

The estimated costs for the proposed Project are anticipated to be funded by TFAR funds and RAP's General Fund will not be impacted by the construction of the Project.

The funding for maintenance cost of the new skate park will be requested through RAP's new and expanded facilities budget request process. Maintenance of the park improvements can be performed by current staff with no overall impact to existing maintenance service at this existing facility.

STRATEGIC PLAN INITIATIVES AND GOALS

Approval of this Board Report advances RAP's Strategic Plan by supporting:

Goal No. 3: Create and Maintain world-class parks and facilities

Outcome No. 2: Newly developed Park Projects and the redesign of the city signature parks.

Result: The installation of a world-class skate park.

This Report was prepared by Craig A. Raines Landscape Architect, Capital Projects and Planning Division, Planning, Maintenance and Construction Branch.

List of Attachments

1. Construction Documentation Package
2. Existing Site Photos

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

DEPARTMENT OF RECREATION AND PARKS

CITY OF LOS ANGELES

TRINITY SKATE PARK

Los Angeles, CA 90011

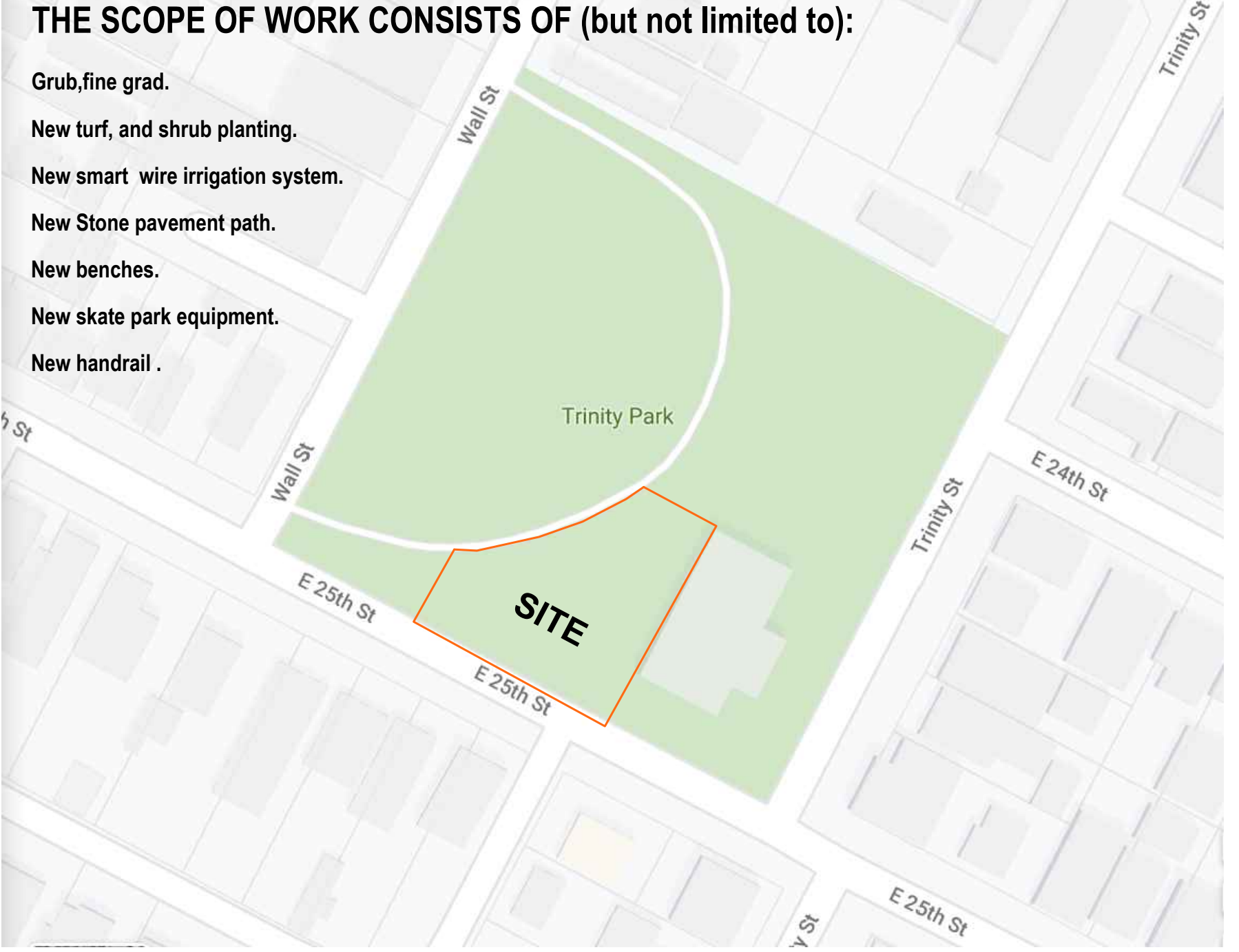
NEW PARK CONSTRUCTION



THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS
ASSISTANT GEN. MANAGER: Ramon Barajas
GENERAL MANAGER: Michael Shull
PROJECT LANDSCAPE ARCHITECT: CHAS BAINES
PROJECT ENGINEER:
AS-BUILT DRAWN BY:



PROJECT DESCRIPTION



TRINITY SKATE PARK
PERSPECTIVE

CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

INDEX OF SHEETS

SHT NO.	DESCRIPTION	To be modified
TS-01	TITLE SHEET	
SP-00	SPECIFICATIONS	
SP-01	SPECIFICATIONS	
SP-02	SPECIFICATIONS	
SP-03	SPECIFICATIONS	
LS-00	DEMOLITION PLAN	
LS-01	LAYOUT PLAN	
LS-02	LAYOUT BLOW UP	
LS-03	MATERIALS PLAN	
LS-04	PLANTING PLAN	
LS-05	IRRIGATION PLAN	
LS-06	DRAINAGE PLAN	
LS-07	DETAILS	
LS-08	DETAILS	
LS-09	DETAILS	
LS-10	DETAILS	
LS-11	PLANTING DETAILS	
LS-12	IRRIGATION DETAILS	
LS-13	IRRIGATION DETAILS	
LS-14	PERSPECTIVE	
E--01	SECURITY CAMERA	

PRESSURE LOSS CALCULATION GPM

INFO. SOURCE:		PH. NO.			
VALVE NUMBER	A-S	IRRI. TYPE	MPR	GPM	18.0
STATIC WATER PRESSURE @ WATER METER					56.0
SIZE	DESCRIPTION	Length	PSI loss/100'	GPM	LOSS
<hr/>					
2"	SERVICE LINE		30.0		
		Length	PSI loss/100'		
2"	WATER METER		30.0		
3"	BACKFLOW PREVENTER		30.0		10.00
1 1/2"	MASTER VALVE		30.0		
1 1/2"	FLOW SENSOR		30.0		
1 1/2"	PRESSURE REGULATOR		30.0		
	GATE / BALL VALVE		30.0		
1 1/2"	REMOTE CONTROL VALVE		30.0		
<hr/>					
3"	MAINLINE	Length	PSI loss/100'	GPM	
		0	1.10	110.0	0.00
<hr/>					
2"	MAINLINE	Length	PSI loss/100'	GPM	
		0	1.74	50.0	0.00
<hr/>					
1 1/2"	LATERAL LINE	Length	PSI loss/100'	GPM	
		137	2.28	30.0	3.1238
<hr/>					
1 1/4"	LATERAL LINE	Length	PSI loss/100'	GPM	
		492	2.72	22.0	13.3824
<hr/>					
1"	LATERAL LINE	Length	PSI loss/100'	GPM	
		177	3.70	12.0	6.549
<hr/>					
3/4"	LATERAL LINE	Length	PSI loss/100'	GPM	
		0	4.50	7.0	0
<hr/>					
2"	LATERAL LINE	Length	PSI loss/100'	GPM	
		0			0.00
<hr/>					
PVC LATERAL LINE FITTING LOSS (10%)					33.1
TOTAL FRICTION LOSS					
ELEVATION @ METER					0.0
ELEVATION DIFFERENCE					0.00 ±
PSI REQUIRED AT HEAD					0.0
<hr/>					
TOTAL PSI REQUIRED					33.1
<hr/>					
REGULATED PRESSURE @ POC (IF APPLICABLE)					0.0
<hr/>					
RESIDUAL PRESSURE (MUST BE POSITIVE)					22.9
<hr/>					
ADDITIONAL WATER PUMP WILL PLUS 15 PSI TO TOTAL PSI REQUIRED AT HEAD, TOAL AVAILABLE WILL BE 48.1 PSI.					

PROJECT TEAM

OWNER: DEPARTMENT OF RECREATION & PARKS
350 S GRAND 46TH FLOOR
LOS ANGELES, CA 90071

MICHAEL SHULL
GENERAL MANAGER
(213) 202-2633

DARRYL FORD
PCM. SUPERINTENDENT
(213) 202-2655

DESIGN: PLANNING, CONSTRUCTION & MAINTENANCE DIVISION

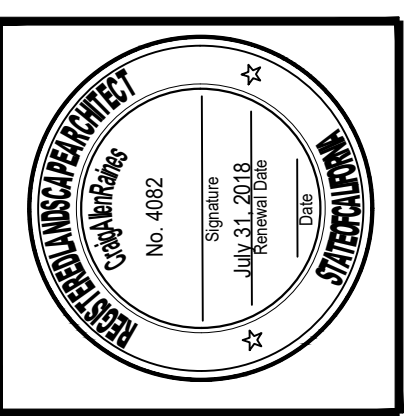
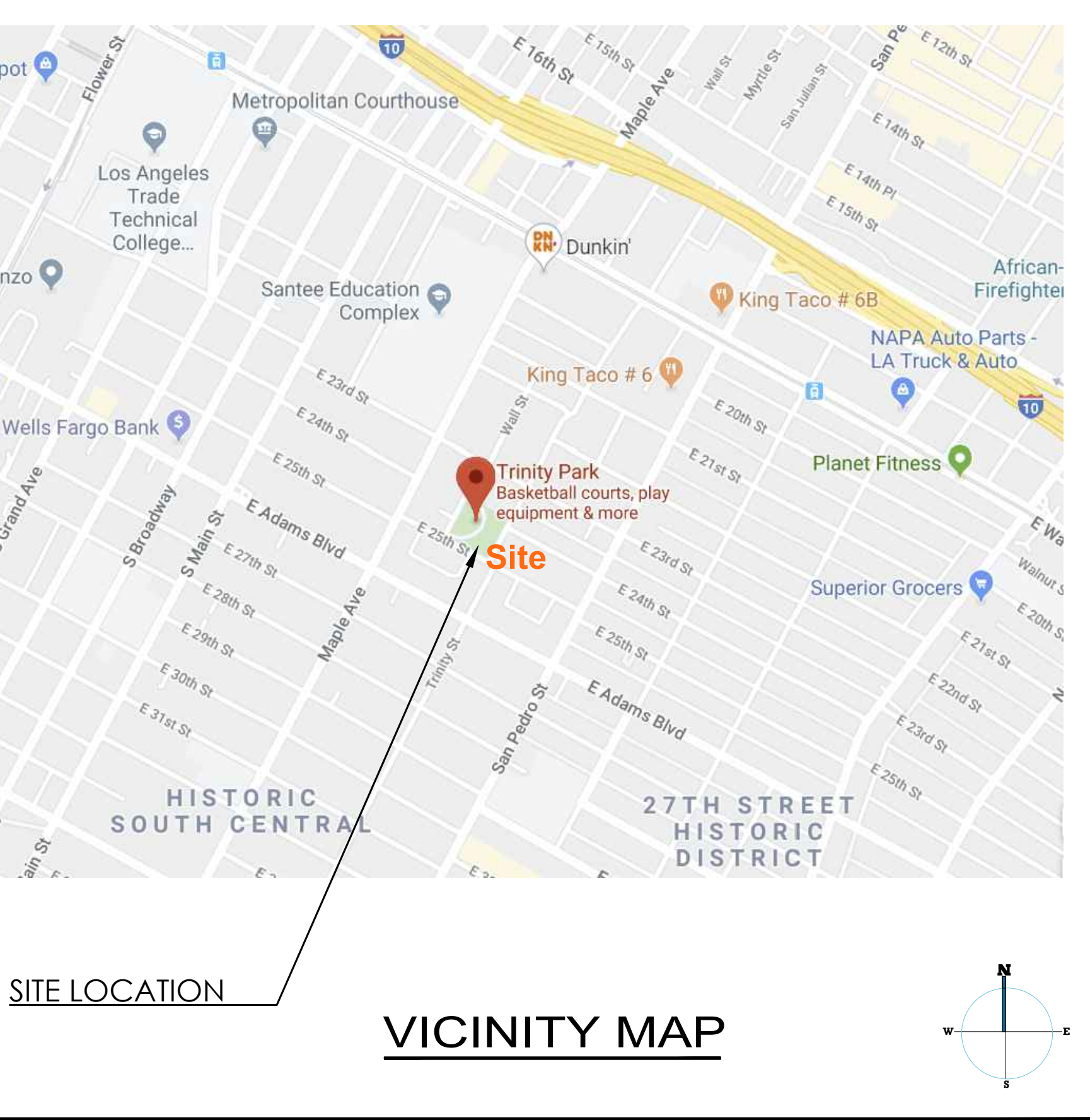
Craig Allen Raines (Primary Contact)
LANDSCAPE ARCH. ASSOCIATE III
RLA #: 4082
(213) 202-2652

ZHIYA HUANG
LANDSCAPE ARCH.
(213) 202-2652

GONGYING PU
LANDSCAPE ARCH.
(213) 202-2652

ABBREVIATIONS

ABS	ACRYLONITRILE BUTADIENE	ID	INSIDE DIAMETER
ADJ	ADJACENT	INV.	INVERT ELEVATION
ALT.	ALTERNATE	IN.	INCH
<	ANGLE	JOIN	JOINT
APPROX.	APPROXIMATE	JT.	JOINT
AC	ASPHALT CONCRETE	LB.	POUND
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	LF	LINEAL FEET
		MAX.	MAXIMUM
@	AT	MFG.	MANUFACTURER
BC	BEGINNING OF CURVE	MH	MANHOLE
BPU	BACKFLOW PREVENTION UNIT	MIN.	MINIMUM
BM	BENCH MARK	MISC.	MISCELLANEOUS
BS	BOTTOM OF STEP	NTS	NOT IN CONTRACT
BW	BOTTOM OF WALL	NO.or #	NUMBER
B/W	BOTH WAYS		NOT TO SCALE
CB	CATCH BASIN	OC	ON CENTER
C	CENTER LINE	OD	OUTSIDE DIAMETER
CC	CENTER TO CENTER	PA	PLANTING AREA
CJ	CONTROL JOINT	PB	PULL BOX
CLF	CHAIN LINK FENCE	P	PROPERTY LINE
CO	CLEAN OUT	POC	POINT OF CONNECTION
CONC.	CONCRETE	PP	POWER POLE
CONST.	CONSTRUCT	PRC	POINT OF REVERSE CURVE
CF	CUBIC FOOT	PSI	POUND PER SQUARE INCH
CSP	CORRUGATED STEEL PIPE	PVC	POLYVINYL CHLORIDE
CY	CUBIC YARD	QCV	QUICK COUPLER VALVE
DF	DRINKING FOUNTAIN	R	RADIUS
DG	DECOMPOSED GRANITE	RCP	REINFORCED CONCRETE
DIA or O	DIAMETER	RCV	REMOTE CONTROL VALVE
EA	EACH	RP	REDUCED PRESSURE
EC	END OF CURVE		BACKFLOW DEVICE
EJ	EXPANSION JOINT	SD	STORM DRAIN
ELEV.	ELEVATION	SHT.	SHEET
EQ.	EQUAL	SPECS.	SPECIFICATIONS
FB	FIELD BOOK	SS	SANITARY SEWER
FL	FLOWLINE	SSPWC	STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION
FG	FINISH GRADE		
FIN.	FINISH	SQ.FT.	SQUARE FEET
FS	FINISH SURFACE	TC	TOP OF CURB
FOC	FACE OF CURB	TG	TOP OF GRATE
FOW	FACE OF WALL	TS	TOP OF STEP
FT	FEET	TW	TOP OF WALL
GA	GAUGE	VERT.	VERTICAL
GALV.	GALVANIZED	WM	WATER METER
GPM	GALLONS PER MINUTE	WWM	WELDED WIRE MESH
HORIZ.	HORIZONTAL		
	LOCATION OF COMPACTION TEST, AS INDICATED ON THE PLANS		



TRINITY SKATE PARK
2415 Trinity St,
Los Angeles, CA 90011

REVISIONS:		DATE:
PLAN NAME: Title Sheet		
DRAWN BY: Phyo Hung Gongying Pu	APPROVED BY: C. Raines	
SCALE: nts	ISSUE DATE:	
PRJ #	FILE NO.	
DRAWING NO. TS-01		
SHEET OF SHEETS		

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SECTION 02100
SITE CLEARING, DEMOLITION

1.00 GENERAL

1.01 DESCRIPTION

All clearing of the site and demolition indicated on the drawings and in these specifications.

- (a) Obtain and pay for Demolition Permit(s) as may be required by the Los Angeles Dept. of Building & Safety.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- (a) Earthwork, Section 02200.
- (b) Asbestos Removal, Section 02040.

1.03 CODES AND REGULATIONS

Perform all work in strict accordance with all applicable Federal, State, and City of Los Angeles Codes and Regulations. Particular care shall be taken to meet all safety standards and requirements. If, in the opinion of the General Manager or any other authority having jurisdiction, additional measures are needed, the Contractor shall furnish such materials and devices as directed and shall install them, at no extra cost to the City.

1.04 WASTE MATERIAL

Trees, shrubs, branches, roots, broken concrete and materials resulting from site clearing and demolition operations, waste materials, rubbish and debris shall be promptly removed from the job site; accumulation is not permitted.

1.05 REPAIR OF DAMAGE

- (a) Any damage to remaining portions of building, site improvements, street improvements and/or private property as caused by Contractor's operation outside the scope of required site clearing and/or demolition shall be repaired or replaced at Contractor's expense.
- (b) Contractor shall repair or replace existing remaining work with new materials as necessary to restore damaged areas or surfaces to a condition equal to and matching that existing prior to start of work of this contract to the satisfaction and approval of the General Manager.

1.06 MISCELLANEOUS GENERAL REQUIREMENTS

- (a) Erect and maintain all construction fences and planking, bridges, shoring, lights, warning signs, and guards as necessary for protection of streets, sidewalks, adjoining warning signs, and guards as necessary for protection of streets, sidewalks, adjoining properties and the public.
- (b) Protect all sidewalks, drives, streets, buildings on adjacent properties and other item which are to remain undisturbed, both on and off the site of the work and adjacent streets as prescribed by the City of Los Angeles Department of Building and Safety.
- (c) Remove all protections when the work is complete or when so authorized by the General Manager.
- (d) Water or sprinkle dusty ground surfaces during site clearing operations at such frequencies as will hold down dust during all hours of work.
- (e) Notify all companies owning conduit, wires or pipes running to the property; arrange for any required removal and relocation of power poles and their guy wires, utility lines running to and on the property; cap pipes, conduits and sewers, where required, in accordance with instructions of said owners and the General Manager.

2.00 EXECUTION

2.01 SITE CLEARING

- (a) Remove all growths on the job-site within the area of new work.
- (b) Remove large roots to a depth of at least 2 feet below finish grade or to a depth where settlement will not occur as caused by decomposition of roots.

remove all rubbish and debris resulting from site clearing as soon as possible, do not allow to accumulate.

2.02 DEMOLITION

- (a) Required
 - Complete demolition and/or removal of all items indicated on the drawings and these specifications.
 - Removal of all debris and rubbish existing on the job site and/or resulting from demolition operations on and off the premises.
 - Removal of fixtures, equipment, and appurtenances noted on the drawings.
 - Complete removal of underground piping or conduit as well as obstructions interfering with new construction.
- (b) Methods
 - As devised by the Contractor for the work required, with suitable equipment.
 - In accordance with City of Los Angeles Building Codes and all other applicable laws and ordinances.
 - Procedures to be orderly and careful, with due consideration for occupants of adjacent properties and the public.
 - Provide bracing and shoring as necessary to avoid accidents or collapse of structure.
 - Where concrete walls, slabs, or sidewalks are required to be removed and adjoining work is to remain, straight line saw-cut the work to a minimum depth of one (1) inch to ensure straight removal.
 - Abandoned pipe or conduit shall be removed to a point not less than 5 feet beyond the construction limits of the contract work and shall be capped.

2.03 SALVAGEABLE MATERIALS

- (a) All salvageable materials indicated on the drawings or these specifications shall be carefully removed, cleaned and protected from damage and neatly stored on the site for pick-up by the City as directed by the General Manager.
- (b) All materials not indicated to remain on the premises or be reused in the project or classed as salvageable materials shall become the property of the contractor and shall be promptly removed from the job site.

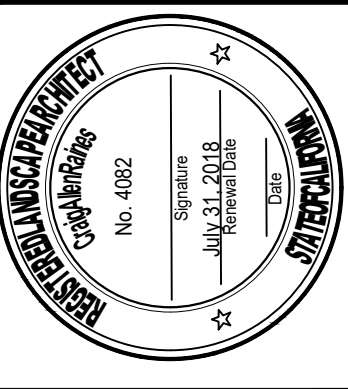
2.04 STORAGE OF MATERIALS AT THE SITE

Not permitted beyond brief accumulation awaiting pick-up by removal trucks; materials and equipment removed from the building not to be stored at the site but to be hauled away promptly; any delay in removing materials and equipment from the site shall be subject to the approval of the General Manager.

END OF SECTION



THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS
GENERAL MANAGER: Michael Shull
PROJECT LANDSCAPE ARCHITECT: CRAIG ZIMMER
PROJECT ENGINEER: AS-BUILT DRAWN BY:
ASSISTANT GEN. MANAGER: Ramon Barajas
LC NO. _____
LC NO. _____
DATE _____



PROJECT NAME:
TRINITY SKATE PARK
ADDRESS:
**2415 Trinity St,
Los Angeles, CA 90011**

REVISIONS:	DATE:

PLAN NAME:
Specifications

DRAWN BY:
Myo Posing
Gangyong Pu
SCALE:
nfs
PRJ #
PRJ21085

APPROVED BY:
C. Raines
ISSUE DATE:
FILE NO.

DRAWING NO.
SP-00
SHEET OF SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

GENERAL

Division 1, General Provisions for the Department of Recreation and Parks; the Standard Specifications for Public Works Construction, hereinafter referred to as SSPWC, latest edition with the current yearly supplements; and the 2002 Edition of the Additions and Amendments to the SSPWC, shall be made a part of these plans. Website: <http://eng.lacity.org/techdocs/stdplans/s-600/s61028.pdf>. Where conflicts occur between Division 1, General Provisions for the Department of Recreation and Parks and the Standard Specifications for Public Works Construction, Division 1 of the Department of Recreation and Parks shall take precedence. Where conflicts occur between this Notice To Contractors (NTC) and the SSPWC this NTC shall take precedence. Subsections included within this NTC modify or add to the corresponding subsection (by number) of the SSPWC, latest edition with current yearly supplements; where options for materials and/or methods appear in the SSPWC, the option listed hereon shall be used. This improvement consists only of work called for on these plans. The Contractor shall maintain adequate sanitary facilities on the jobsite from the beginning to end of grading operations. Underground structures: the location of existing underground substructures, utilities, and pipelines as shown on the plans have been located from the best available records and have not been verified in the field. It shall be the contractor's responsibility to verify the locations of said substructures and lines even if not shown on the plans and to take all necessary precautions to prevent damage to the same. Straight grades shall be run between contours and/or spot elevations shown unless otherwise indicated. Should conflicting and/or erroneous information be found on the drawings, the Contractor shall notify the Landscape Architect prior to commencement of work. It shall be the responsibility of the Contractor to provide adequate supports for all excavations where necessary to protect personnel and property from any damage that might occur as a result of the collapse of excavation. The Contractor shall maintain current Cal OSHA permits as required and a copy of said permit shall be posted at the project. The Contractor shall provide access control for pedestrians and vehicles for entire project from the beginning to end of grading operations. The Contractor shall keep the construction area sufficiently dampened to control dust caused by grading and construction. Contractor shall, at all times, provide reasonable control of dust caused by wind. The Contractor shall control noise resulting from repair of heavy equipment after normal working hours by locating such activities as far as practicable from adjacent inhabited areas and so that such activities do not constitute a public nuisance or disturb the peace. Heavy equipment shall be kept in good operating condition and muffled as required by law.

PLANS AND SPECIFICATIONS

- ✓ The Contractor/RAP Staff shall be responsible for:

To get the necessary approval, sign offs and authorization from the project landscape architect, as indicate on the plans, prior to proceeding to the next project phase. All approvals and submittals shall be transmitted to the Recreation and Parks Advance Planning project landscape architect.

- ** Indicates required field inspections with the Department of Recreation and Parks Project Landscape Architect . Notify all party's three (3) days prior to the required inspection.

SCHEDULE OF WORK

The Contractor/Rap Construction staff shall submit a Schedule of Work for approval to the Department of Recreation and Parks Project Landscape Architect prior to the commencement of work. The Contractor/Rap Construction staff shall schedule all work on weekdays (excluding Saturday, Sunday and City holidays) between the hours of 7:00 a.m. and 4:00 p.m. The work area shall be as defined on the Title Sheet, or as indicated on the Plans by means of a contract limit line.

INSPECTIONS

All work and materials are subject to inspection and approval by Department of Recreation and Parks Project Landscape Architect. Any work done without proper inspection will be subject to rejection. The Contractor/RAP staff shall notify the Project Landscape Architect (3) days prior to inspection of the following for approval:

- ✓ **1. ROUGH GRADING:** When forms have been set, to approve alignment. Offsets or vertical controls shall be verifiable in the field, or be provided in grade sheet form, and submitted to the Department of Recreation and Parks for approval prior to the inspection.
- ✓ **2. FINISH GRADE REVIEW:** For all finish grades in planting areas following rolling and prior to turf or landscape planting.
- ✓ **3. PRE-FINAL INSPECTION** (refer also to Section 42 of Division 1, General Provisions): A minimum of two weeks before the Final Inspection, Recreation and Parks shall hold a Pre-final Inspection. The Pre-Final Inspection shall be attended by the Department of Recreation and Parks, the Contractor, and invited parties associated with the Project. At this time, a list of items requiring correction or completion before the Final Inspection will be compiled. The following items shall be delivered to the appropriate Department of Recreation and Parks personnel: manufacturers' data, manuals, operating instructions, and keys, as required in Section 38 of Division 1, General Provisions.
- ✓ **4. CONTRACT FINAL INSPECTION** (refer also to Section 43 of Division 1, General Provisions): Approximately seven (7) days prior to completion of the Work, the Contractor shall first notify the Department of Recreation and Parks Project Landscape Architect that he desires a Final Inspection of the Project. During this inspection, the Inspector, the Project Landscape Architect, the Contractor/RAP construction staff and other parties concerned only with the contractual requirements of the Work will compile a Final Inspection Correction List, incorporating all items of work and corrections required to complete the Project. This list must be completed with thirty (30) days of the Final Inspection, or a new Final Inspection and Correction List shall be required.

MATERIALS SUBMITTAL

The Contractor shall submit a minimum of six copies of the Materials List to the Department of Recreation and Parks project landscape architect within ten days of receiving the Notice to Proceed. All submittals shall be sent to the Department of Recreation and Parks Project Landscape Architect at the same time as one submittal package. Any materials substituted for originally specified materials that have been rejected by Recreation and Parks shall have an alternate item resubmitted for approval within one week of the Contractor receiving the notice of rejection.

RECORD DRAWINGS (AS-BUILTS) SUBMITTALS

Record drawings shall reflect any changes made to the plans or specifications during the progress of the work as a result of addenda, change orders or adjustments due to field conditions or plan clarification. They shall also indicate any additional information discovered during the progress of construction that was not a part of the contract documents. All deviations from the specified depth at which materials are constructed shall be shown on the record drawings. Record all appropriate as-built information on the record drawings in red ink. As-built information shall include but not be limited to drain lines, valve locations, mainline locations and mainline valve installed separately from mainline. The record of each trade shall be made on the plan sheets for each trade as provided in the original plan set. The Contractor/RAP Construction Staff shall be responsible for coordinating all sub-Contractors work and shall produce a complete record of all installations, which shall be kept on the job site and updated daily during construction. At the completion of the Work and prior to final inspection, the Contractor shall submit signed "as-built" blue-line prints to the Department of Recreation and Parks at the Operational Final Inspection, prior to the City's acceptance of the Contract Work, (per Section 39 of Division 1 of the General Provisions).

DEPARTMENT OF PUBLIC WORKS STANDARD PLANS

The following Department of Public Works Standard Plans are to be included as a part of these plans: (If needed for work within ROW and any 'A' or 'B' permit work)

SSPWC

2002 Edition of the Additions and Amendments to the SSPWC website: <http://eng.lacity.org/techdocs/stdplans/s-600/s61028.pdf>

LAYOUT OF WORK, GRADE SHEET APPROVAL

Grade stakes shall be a minimum size of 1" x 2" and shall be driven a minimum of 12" into ground; each grade stake shall be protected by a flagged lath projecting 24" above ground; grade stakes disturbed by on-site activities shall be reset by the Surveyor. If specified on the plan the Contractor shall have his surveyor provide grade sheets. The grade sheets shall be submitted to the Department of Recreation and Parks for approval one week in advance of any grading operations.

UNDERGROUND SUBSTRUCTURES

The survey plans provided to the Contractor will show existing on-site underground substructures to the extent of the Department's records. Service lines from other public utilities, including the Department of Water and Power shall be located by notifying **UNDERGROUND SERVICE ALERT** at 1 - (800) 422-4133 OR **DIG ALERT AT 1-800-227-2600** prior to commencing any excavation.

TREE PROTECTION - EXISTING TREES

All trees to remain in place shall be protected using the following guidelines:

1. No equipment is to be parked or operated under a tree. No materials shall be stored under a tree. Do not compact soil within the drip line of the tree.
2. All work shall be in accordance with the City of Los Angeles Oak Tree Ordinance.
3. No chemical herbicides are to be used within 100 feet of the tree's drip line.
4. Do not nail grade stakes or anything else to trees.
5. Any approved pruning shall be authorized by the Department of Recreation and Parks and done by a qualified Arborist.
6. No roots over two (2) inches in diameter are to be cut during the course of construction without the approval of the Department of Recreation and Parks.
7. No Irrigation trenching shall pass closer than eight (8) feet of the base of any tree.
8. If any contractor is unsure of a tree to remain in place or to be removed they are to contact the Department of Recreation and Parks immediately and prior to taking any action.
9. See plans for Oak Tree guidelines if applicable.

1. GENERAL EARTHWORK

METHODS

The Grading Plan when approved shall be on the job at all times. All grades between contours and/or spot elevations shall be assumed to be straight grades. There shall be no localized depressions or humps, (308-2.1). The Contractor shall verify all grades and amounts of cut and fill before commencing work. The area to be filled shall be cleared of all vegetative material, except the existing trees to remain. Protect remaining trees during all construction.

All fill soil shall be compacted to 90% relative compaction and the Contractor shall obtain and pay for all soil compaction tests. Locations where compaction testing is required are shown on the plans with the Φ symbol. The Department of Recreation and Parks may modify the exact location in the field, depending on field conditions. The total number of compaction test shall be no less than the number shown by the symbol. Minimum compaction of earthwork shall be 90% relative compaction unless noted otherwise. Prior to placing fill rip existing subgrade to a depth of 6 inches. Intermix first 6 inches of fill placed with ripped subgrade to eliminate interface lens. Place remaining fill in 8" lifts. The source of import soil shall be approved by the Department of Recreation and Parks prior to any grading operations. The Contractor/RAP Staff shall be required to provide an Agricultural Suitability soil test to establish the suitability of any imported soil and that soil concentrations of boron and salinity are within agricultural limits. The Contractor shall, at his own expense, amend the soil according to the recommendations of the soils report. Fill material 24 inches, or more, below the finish grade may contain up to 25 percent broken concrete or bituminous paving with maximum dimension of 3 inches of any piece. The top 24 inches of fill may contain up to 10 percent broken concrete or bituminous paving with a maximum dimension of 1-1/2 inches of any piece. Where the plans call for turf, the top 6" of soil shall have no object larger than 1" in least dimension. The Contractor shall be responsible for removal and disposal of all excess soil and debris from the work area, (300-1.3.1., 300-2.6.). No soil or debris shall be disposed of on Recreation and Parks Property without the permission of the Department of Recreation and Parks. The Contractor shall conform to Section 7-8.1 of the SSPWC latest edition with the current yearly supplements for clean up and dust control. The Contractor shall at no additional cost to the Department engage the services of an approved California licensed Ground water conditions encountered during the course of the work shall be brought to the attention of the Project Landscape Architect.

If any grading operation covered by this section shall extend into or through, or shall be commenced during the period of October 15 to April 15, **the contractor/RAP STAFF shall be required to submit plans of the temporary erosion control methods and devices he proposes to use in connection with the grading operations to be performed during that period.** Said plans shall be submitted to the Landscape Architect. The Contractor shall at no additional cost to the Department engage the services of an approved California licensed Soils Engineer and approved soils testing laboratory to provide subgrade, pipe bedding, and fill compaction control. The Soils Engineer shall perform field observation and testing during grading to assist the Contractor in obtaining the proper moisture content, compactive effort and degree of compaction. Where compaction is less than required, additional compaction effort shall be made with adjustment of moisture content, as necessary, until the specified compaction is obtained.

Upon completion of grading, the Contractor shall furnish the Department of Recreation & Parks' compaction report, certified by the Soils Engineer, showing the results of compaction tests of fill, subgrade and bedding and certifying that fill, subgrade and pipe bedding compaction complies with the percentage compaction specified.

2. CONCRETE

All concrete construction shall be as specified in this Section unless specified otherwise in this Notice to Contractors.

MATERIALS

BASE MATERIAL

Base material for Portland Cement concrete shall be (CMB) crushed miscellaneous base, (200-2.4).

CONCRETE SPECIFIED BY CLASS

Placed concrete shall be class 520-C-2500, maximum 4 inch slump. Pumped concrete shall be class 560-E-2500, maximum 6 inch slump. A complete delivery receipt shall be required for each truckload of concrete delivered. The receipt shall be given to the Department of Recreation and Parks, (201-1.1.2).

PORTLAND CEMENT

All cement shall be Type II, low alkali Portland cement conforming to ASTM C150 (201-1.2).

AGGREGATES

The aggregates for all concrete construction shall be fractured face aggregates obtained from a quarry in the San Gabriel River drainage area only and shall be certified non-reactive by an approved testing laboratory as approved by the Bureau of Contract Administration, (201-1.2.2).

COMBINED AGGREGATE GRADINGS

Combined aggregate gradings for Portland Cement shall be as specified under this section, (201-1.3.2).

EXPANSION JOINTS

Expansion Joints shall use a 3/8 inch thick asphalt impregnated felt expansion joint.

JOINT URETHANE SEALANT

When specified, expansion joint material shall be urethane elastomeric sealant for concrete pavement shall be Lithoseal TrafficLac-G3 by L. M. Scofield Company, or an approved equal, (201-3). Color to match concrete.

EXPANSION JOINT PREMOLDED ASPHALTIC JOINT MATERIAL

When specified, expansion joint material shall be 1/4 inch thick asphaltic joint material as manufactured by Sealight Co., or an approved equal, (201-3).

DOWELS (EXPANSION AND END-OF-POUR JOINTS)

Shall be grade 40 or grade 60 billet steel, (201-2.2).

END OF POUR JOINTS

End of pour joints shall be 1/4 inch thick asphaltic joint material as manufactured by Sealight Co., or an approved equal, (201-3).

COLORS CONCRETE ADMIXTURES

Admixtures for colored concrete shall be Lithochrome Color Hardener by L.M. Scofield Company (800) 800-9900, or Davis Mix-in Colors for concrete by Davis Colors, (800) 800-6856, or an approved equal. 2'X2' Samples to be poured for each color specified on the plan for approval by the project landscape architect.

METHODS

SUBGRADE AND BASE PREPARATION AND COMPACTION

Subgrade under all concrete shall be prepared and compacted in accordance with this section (301-1). Locations where compaction testing is required are shown on the plans with the Φ symbol. The Department of Recreation and Parks may modify the exact location in the field, depending on field conditions, if permission is granted from the Department of Recreation and Parks. The total number of compaction tests shall be no less than two (2) or the number indicated on the plans. The Contractor shall provide compaction tests for both subgrade and base material, if applicable, at the locations indicated on the construction plans. Results of the compaction tests shall be submitted to the Department of Recreation and Parks for approval prior to the pouring of concrete. Minimum subgrade and base compaction shall be 90% relative compaction.

EXPANSION JOINTS

Shall be placed against previously constructed concrete structures or as indicated in the plans (303-5.4.2) and per Recreation and Parks Detail 300 series.

CONCRETE SURFACE FINISHING

Concrete walks, pads shall have a medium sand blast finish/med water wash finish, unless otherwise noted on the plans. The Contractor shall prepare a minimum two (2) foot by two (2) foot sample for approval by the Project Landscape Architect before any concrete is placed, (303-5.5.3.) Any sidewalk in the public street right of way constructed as a portion of this contract shall be finished as directed by the Department of Recreation and Parks and shall meet all the standards as per the SSPWC and LACBC requirements

3. DISINTEGRATED GRANITE AND SOIL STABILIZERS

MATERIALS

DISINTEGRATED GRANITE

Disintegrated granite shall be referred to by the abbreviation (D.G.), or referred to as a decomposed granite. All disintegrated granite shall conform to the following grading requirements:

Sieve Designation	% Passing	Sieve Designation	%Passing
3/8 inch	100	No. 30	40-50
No. 4	95-100	No. 50	25-35
No. 8	75-80	No. 100	20-25
No. 16	55-65	No. 200	5-15

The portion of D.G retained on the no. 4 sieve shall have a maximum percentage of wear of 50 at 500 revolutions as determined by AASHTO T96-77. The portion passing a No. 40 sieve shall have a maximum liquid limit of 25 and maximum plasticity index of 7 as determined by AASHTO T89-81 and AASHTO T90-81, respectively. Crushed aggregate screenings shall be free from clay lumps, vegetative matter and deleterious material.

SOIL STABILIZER

The stabilizer shall be a non-toxic, colorless, odorless, organic powder that binds D.G. screenings. The stabilizer shall be manufactured by Stabilizer Inc., (800) 336-2468, or an approved equal.

DISINTEGRATED GRANITE AND SOIL STABILIZERS cont.

PORTLAND CEMENT (FOR SOIL CEMENT)

Portland Cement shall be Type II, (201-1.2).

4. STRUCTURAL CONCRETE AND MASONRY

All work shall conform to the latest edition, L.A. City Building Code (LACBC) in addition to the SSPWC; the LACBC shall take precedence where conflicts occur with the SSPWC.

CERTIFICATION AND TESTING

As required by the LACBC, certificates of identification and/or testing shall be provided for all concrete, reinforcing steel, concrete block, mortar, and grout materials delivered to the job site.

The following items refer to the corresponding SSPWC subsections in order to resolve conflicts with the LACBC, to stress items of particular concern, or modify, add to, or choose options in the SSPWC.

MATERIALS

CONCRETE SPECIFIED BY CLASS

Concrete is designed for Fc=2000 psi; for durability placed concrete shall be class 560-C-3250, maximum 4 inch slump and pumped concrete shall be class 660-E-3250, maximum 6 inch slump. A complete delivery receipt shall be required for each truckload of concrete delivered. The receipt shall be given to the Department of Recreation and Parks.

PORTLAND CEMENT

All cement shall be Type II, low alkali Portland cement conforming to ASTM C150. (201-1.2).

AGGREGATES

The aggregates for all concrete construction shall be fractured face aggregates obtained from a quarry in the San Gabriel River drainage area only and shall be certified non-reactive by a testing laboratory as approved by the Bureau of Contract Administration per Section (201-1.2.2).

COMBINED AGGREGATE GRADINGS

Combined aggregate gradings for Portland Cement shall be as specified under this section, (201-1.3.2).

REINFORCING STEEL

Use ASTM A615 Grade 40 billet steel, (201-2).

EXPANSION JOINTS

Use "Sealtight" 1/2 inch thick, full depth, self-sealing asphalt expansion joints by W. R. Meadows Inc. or equal, (201-3).

CONCRETE CURING COMPOUND

Use Type I compound, (201-4).

CEMENT MORTAR

In lieu of the class and proportions shown in SSPWC 201-5.1, use Type S mortar, Fc=2000 psi, LACBC 91.2403(g), (201-5, 202-2.1.2).

GROUT

In lieu of SSPWC 202-1.5.2, use 2000 psi grout per LACBC 91.2403(r), (201-1.5).

CONCRETE BLOCK

Use 8" x 8" x 16" lightweight (103 pcf) units conforming with ASTM C90 Grade N-1, (202.2.1).

FORMWORK AND PLYWOOD FORMS

Lumber shall comply with this section, (204-1).

METHODS

FOUNDATION MATERIAL TREATMENT AND SUBGRADE FOR CONCRETE SURFACES

Footing excavations shall comply with these subsections, (303-1.3).

CONCRETE FORMWORK

Installation and removal of formwork for concrete footings and structures shall comply with these subsections, (303-1.3).

PLACING REINFORCEMENT

The Contractor's attention is directed to the provisions of this subsection regarding: (1) securing reinforcing steel in position in accordance with the "Concrete Reinforcing Steel Institute" standards; (2) splicing of bars; and (3) bending of bars, (303-1.7). In masonry the thickness of grout between block units and reinforcing steel shall not be less than 1/2 inch.

PLACING CONCRETE

The Contractor's attention is directed to the provisions of this subsection regarding: (1) avoiding concrete segregation; (2) wetting forms and subgrade; (3) consolidation of concrete with vibrators; and (4) provision for construction and expansion joints, (303-1.8).

CONCRETE SURFACE FINISH AND CURING COMPOUND

Surface finish and provision for curing compound shall comply with these subsections, (303-1.9).

MASONRY CONSTRUCTION

The Contractor's attention is directed to the provisions of this subsection regarding: (1) workmanship; (2) proper masonry units; (3) metal stops on horizontal reinforcing; (4) thoroughly rodding vertical cores; (5) cleaning cores of debris and mortar; (6) holding reinforcement straight and in place; and (7) cutting masonry with a power driven abrasive saw. If work is stopped for one hour or longer a horizontal construction joint shall be provided by stopping the grout 1 1/2 inches below the top of block. Masonry shall be laid in running bond, unless otherwise noted, (303-4).

IRRIGATION SYSTEMS

MATERIALS

SOLVENT WELDED PLASTIC PIPE

Schedule 40 PVC plastic pipe shall be used for pipe sizes up to and including 1 1/2 inch diameter on both the discharge and supply side of control valves, (212-2.1.3). Class 315 PVC plastic pipe shall be used for pipe sizes from 2 inch up to and including 3 inch diameter.

RESTRAINED PLASTIC PIPE

Class 150, DR 18, C90 PVC pipe shall be used for pipe sizes of 4inch up to and including 10inch diameter.

REMOTE CONTROL VALVES

All remote control valves shall be electrically operated with body of cast brass or bronze construction, (212-2.2.4) and installed per details.

CONTROL WIRE

Connection between the automatic controller(s) and the remote control valves shall be made with direct burial 14 gage, AWG-UF, 600 volt, copper wire. Wires shall be provided in the following colors: red, yellow, blue, green, orange, tan, purple, pink, brown, gray, and white.

CONTROL WIRE CONNECTIONS

Control wire connections shall be made with 3-M brand of DBY or DBR Direct Burial Splice kits, or approved equal. The splice kit shall consist of a one-piece malleable plastic bulb body with internal locking fingers, filled with re-enterable gel sealant and a Scotchlok Electrical Spring Connector. Materials shall be as follows:
Connector shall be a flame retardant PVC insulator with a steel spring and shell within. Connector shall be a non-crimping system
Tube material shall be clear see-through polypropylene.
Gel material shall be hixotropic calcium organic complex.

Wire sizes and numbers of wires shall be as shown below:

CONNECTORCOLOR,NO. AND SIZE OF WIRE3M Model DBYYellowMax. 4-12 gage UF wires3M Model DBRRedMax. 3-14 gage UF wires

QUICK COUPLING VALVES AND ASSEMBLIES

Quick couplers shall be 1 inch i.p.s., two piece, brass or bronze construction equipped with a cover, unless otherwise specified on plans. The Contractor shall provide one quick coupler key with hose swivel for each five quick couplers installed. Contractor shall supply a minimum of one quick coupler key with hose swivel, (212-2.2.6) and shall be installed per details.

VALVE BOXES

To Be Rainbird VB series Jumbo or approved equal.

METHODS

NEW PIPELINE INSTALLATION - GENERAL

- ✓✓ When pipelines run parallel they shall be separated horizontally by a minimum distance of 12". When pipelines cross each other they shall be separated vertically by a minimum distance of 3".
- ✓✓ **NOTE: ALL TRENCHING SHALL BE APPROVED BY THE PROJECT LANDSCAPE ARCHITECT PRIOR TO THE BACKING FILLING OF TRENCHES.**

- ✓✓ No irrigation trenching shall pass closer than eight feet of the base of any tree. No tree root larger than 2" diameter shall be cut without approval of Department of Recreation and Parks.

COVER OVER MAINLINES:

- ✓✓ Maintain 24 inches of cover over mainlines 3" and smaller in diameter. Mainlines 4" and larger in diameter shall have 30" of cover over the top of the pipe, (308-5.2). All trenching shall be per details.

COVER OVER LATERAL LINES:

- ✓✓ Maintain 12 inches of cover over all lateral lines.

Pipe bedding and backfill: bedding shall surround the pipe to one foot above the top of the pipe. Bedding shall be placed in 6 inch lifts. All bedding shall be densified by water jetting. Water jetting shall be sufficient to thoroughly wet bedding material around the pipe, (306-1.2.1.). There shall be no rocks over 1/2" in greatest dimension and no organic matter placed in the bedding material. Backfill shall be the material placed above the bedding. Backfill shall be placed in one-foot lifts and densified by water jetting. Jetting shall be continued until backfill collapses and water is forced to the surface, (306-1.3.1.). Pipe trenches thoroughly densified by water jetting shall have a minimum relative compaction of 85%. There shall be no rocks over 2" in greatest dimension or organic matter in the backfill. Trench areas which exhibit insufficient densification shall be subject to compaction tests as requested by the Department of Recreation and Parks. All such compaction tests shall be at the expense of the Contractor. Additional tests may be required until the 85% minimum compaction is achieved. Finished trenches shall match finish grades flush with adjacent finish grades. The Contractor shall be responsible for maintaining the trenches flush and smooth until final acceptance of the project. Trenches in existing lawn shall be repaired per method A lawn repair of the Landscape Planting section of the Notice to Contractors. The maximum trench width shall be two and a half diameters of the pipe.

PIPES CROSSING UNDER PAVING:

Where irrigation piping crosses a vehicular roadway or other paving having a width of less than 25 feet, a PVC Schedule 40 PVC sleeve which is a minimum of two pipe sizes larger than the piping to pass through it, shall be jacked under the paving at a depth of 36" minimum. Where remote control wiring crosses under paving having a width of less than 25 feet, a 3 inch PVC Schedule 40 PVC sleeve shall be jacked under the paving at a depth of 36" minimum. All sleeves shall extend 3' minimum beyond the edges of paving.

Where irrigation piping crosses a vehicular roadway or other paving having a width greater than 25 feet, a trench shall be excavated across the roadway or paving to accommodate a Class 315 PVC sleeve a minimum of two pipe sizes larger than the piping to pass through it, at a depth of 36" below the bottom of the paving, as measured from the top of the sleeve. Where remote control wiring crosses under paving having a width greater than 25 feet, a 3 inch Schedule 40 PVC sleeve shall be installed at a depth of 36" below the bottom of the paving, as measured from the top of the sleeve. The backfill of the trench shall be a 2 sack cement slurry. The slurry shall extend from the bottom of the trench to within one inch of the bottom of the existing paving. The trench in the existing paving shall be repaired with a like paving material and join the existing paving both horizontally and vertically.

REMOTE CONTROL WIRING UNDER PAVING

Remote control wire under paving shall be placed in a 3" class 315 PVC sleeve buried at a depth of 36. Roadways less than 25 feet in width shall have the sleeve jacked under the roadway.

FITTINGS ON MAINLINES:

All outlets from a mainline shall be accomplished with line sized tees with an outlet of the specified size. No saddle tees shall be permitted.

INSTALLATION OF VALVE BOXES

Boxes shall be set flush with existing grade, including sloped areas, and all soil within 12 inches of the perimeter of the box shall be compacted by water settlement as indicated in the trench repair section of this specification. Boxes are to be positioned per details.

THE CITY OF LOS ANGELES OR ITS OFFICERS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

IRRIGATION SYSTEMS cont.

CONTROLLER	TAPE BUNDLE COLOR
A	RED
B	YELLOW
C	BLUE
D	GREEN
E	WHITE
F	BLACK

INSTALLATION OF IRRIGATION CONTROL WIRING

Wire bundles shall be taped at 5' o.c. Lay bundles in the mainline trench. Do not tape bundles to the mainline piping.

- The Contractor shall run two extra black control wires from the automatic controller to the farthest valve on the system, or to the farthest valve at each end of the controller area, if the farthest area extends in two directions from the controller.

Each controller shall have a separate 14 gage, AWG-UF, 600 volt, WHITE common wire for each 10 consecutive stations on each irrigation controller.

Common 1,	stations 1-10
Common 2,	stations 11-20
Common 3,	stations 21-30
Common 4,	stations 31-40

Each exterior controller enclosure shall have a ground rod installed if detailed on controller installation detail.

Wire shall not be taped to mainline (308-5.5). If control wires run in same trench as lateral lines, or are dead headed, wire depth shall be maintained at 24". For installation, see details.

- IRRIGATION SYSTEM FLUSHING AND TESTING**

The irrigation system shall be flushed in the presence of the Departmen/Project Landscape Architect. Flushing shall start with the valve closest to the point of connection and proceed with each consecutive valve toward the valve farthest from the point of connection. Each lateral system shall have each riser capped during the flushing commencing with the riser closest to the valve and proceeding to the farthest riser. After the entire irrigation system has been flushed the system shall be pressure tested in accordance with section 308-5.6 of the SSPWC.

- The irrigation system mainlines shall be pressure tested following the flushing of the complete system. The mainlines shall be tested for 24 hours at 125 p.s.i. with all control valves in place and closed. During the test, the Contractor shall provide pressure gauges downstream from the backflow device and upstream from the farthest remote control valve in the system. Air pressure testing of the irrigation system is acceptable if approved by the Department of Recreation and Parks.

- RECORD DRAWINGS (AS-BUILTS) AND CONTROLLER CHARTS**

As built plans shall be maintained daily throughout the construction period and turned over to the Department of Recreation and Parks at the Operational Final Inspection, as indicated in the General section of this Notice to Contractors in the Record Drawings Submittal section.

The Contractor/RAP staff shall provide two copies of a controller chart showing the irrigation system installed. The chart shall be done on a half size photographic reproduction of the irrigation plan and shall reflect the as-built data. Each station shall be shown in a different color and control wire locations shall be indicated. The complete plan shall be laminated on each side with a 20 mil acrylic plastic sheet. A 3/4" brass grommet shall be placed in each top corner. The Contractor shall obtain approval of the controller chart from the Department of Recreation and Parks, before proceeding with the plastic lamination.

WARRANTY FOR IRRIGATION SYSTEM WORK

The entire sprinkler irrigation system shall be warranted to be free from defects in materials and workmanship, and installed in accordance with this Notice to Contractors and the SSPWC. The Contractor/RAP Construction staff shall be required to repair or replace any defects in material or workmanship which may develop within one (1) calendar year from the date of acceptance, ordinary wear and tear and unusual abuse or neglect excepted. Further, the Contractor/RAP Construction Staff shall be required to make any necessary repairs within 24 hours of notification at no cost to the Department. If the Contractor or his agent fail to make such repairs within the stipulated time, the Department shall make such repairs or have repairs made by a third party and bill the Contractor for all expenses that accrue from making such repairs.

GUARANTEE AGAINST SETTLEMENT

If, within one (1) calendar year from the date of acceptance, settlement occurs along mainlines, lateral lines, at valve boxes, or other irrigation related appurtenances, and adjustments in pipes valves and sprinkler heads are required to bring the system, sod, or paving to the level of the permanent grades, the Contractor/RAP Construction Staff shall make all adjustments.

STEEL PIPELINE

Joints shall be made with Teflon tape applied to the male threads only, (308-5.2.2).

PLASTIC PIPELINE-SOLVENT WELDED OR THREADED ENDS

Prior to the application of the P.V.C. solvent cement, prepare all surfaces to be solvent welded with tetrahydrofuran primer tinted purple. Teflon tape shall be used on all plastic male pipe threads, (308-5.2.3).

- BACKFLOW DEVICE INSTALLATION AND CERTIFICATION**

The Contractor shall obtain certification of the backflow device and submit two copies of the certification to the Department of Recreation and Parks at the Operational Final. The backflow certification shall be made on the County Health Department standard form and filed with the County Health Department, Cross Connection Section, Room 150, 2525 Corporate Place, Monterey Park, CA, 91754. The contractor shall paint all backflow prevention devices above ground with two coats of forest green enamel. Mask all identification tags prior to painting, (308-5.3). After certification remove all test cocks, replace with threaded brass plugs, and deliver test cocks to the Department of Recreation and Parks.

6. CHAIN LINK FENCING AND MISCELLANEOUS METAL CONSTRUCTION

MATERIALS

- CHAIN LINK FENCING**

Chain link fencing materials shall be as specified in details RP 500-506 and Section (206-6).

- Pipes for posts, braces and rails shall be Class 1, Schedule 40, ASTM F 1083 or, Class 1A, with a minimum 50,000 psi yield strength. Class 1 pipe shall be galvanized as indicated in this section of the Notice to Contractors. Class 1A pipe shall have a minimum hot dipped zinc coating of 0.9 oz./Sq. Ft., 15 micrograms of chromate per square inch and a minimum or 3 mils of acrylic coating on the exterior of the pipe. The interior coating of Class 1A pipe shall be hot dipped galvanized with .9 oz/ Sq. Ft. Zinc. Materials for chain link fence posts, rails and braces shall be sized as follows:

NOMINAL SIZE (inches)	ACTUAL O.D. (inches)	CLASS 1 PIPE Wall Thickness	CLASS 1 WEIGHT LBS per lin. ft.	CLASS 1A PIPE Wall Thickness	CLASS 1A WEIGHT LBS/L.F. (pounds)
1 1/4"	1 5/8"	.140	2.27	.110	1.82
1 1/2"	1 7/8"	.145	2.72	.120	2.28
2"	2 3/8"	.154	3.65	.130	3.12
2 1/2"	2 7/8"	.203	5.79	.160	4.64
3"	3 1/2"	.216	7.57	.160	5.71
3 1/2"	4"	.226	9.11	.160	6.56
4"	4 1/2"	.237	10.79	NA	NA
6"	6 5/8"	.280	18.97	NA	NA

CHAIN LINK FENCING AND MISCELLANEOUS METAL CONSTRUCTION cont.

CHAIN LINK FABRIC

The manufacturer of the Chain link fabric shall conform to ASTM A 392, Class 2, 1.20 Oz./Sq.Ft. zinc. Fabric shall be 9 gage and be woven in a 1 1/2" mesh unless otherwise indicated on the plan. Top and bottom selvages shall be knuckled.

PVC coated galvanized steel fabric, when specified, shall conform to ASTM F 668, Class 2b, "fused and adhered", and meet the galvanizing requirements contained in this section of the Notice to Contractors, (206-6.3).

STEEL SHAPES

All structural steel shapes shall be as specified in the applicable detail.

- GALVANIZING**

Galvanized surfaces which have been damaged in transport or during installation shall be re-coated using the SSPWC.

- MANUFACTURER'S CERTIFICATE OF COMPLIANCE**

The manufacturer of the Chain link fabric, fence posts, rails and braces shall provide the Contractor a Certificate of compliance for each shipment sent to the project site. The Certificate shall state that the materials delivered conform to the specification for materials as indicated in Section 8 of these Notice to Contractors. The Certificate of Compliance shall be delivered to the Construction Manager before any fencing materials are installed at the project site.

REPAIRING OF DAMAGED GALVANIZED SURFACES

Cold formed galvanized steel equipment or during installation shall be re-coated using the metalizing process or zinc oxide, zinc dust paint per Section 210-3.5 of the Standard Specification.

TUBULAR STEEL SHAPES

Cold formed shapes for tubular steel fencing shall conform to ASTM A 500, Grade B, in the size and wall thickness shown on the plans and details. Unless specified on the plans all post and rails shall be 3/16" thick. All pickets for fencing shall be 11 gage.

- TUBULAR STEEL WELDING**

Shall conform to the AWS code for procedures, appearance and quality. All welds shall be ground smooth. All fabricated metal fencing panels shall be shop assembled and welded.

- PAINTING (TUBULAR STEEL AND CHAIN LINK FENCING WHEN REQUIRED)**

"Factory" coated tubular steel fencing or chain link fencing shall be exempted from this requirement. All other shop fabricated tubular steel fencing or fencing constructed on site shall be painted in accordance with the requirements for painting "Ferrous Metal (Non-galvanized) Surfaces" below. The two finish coats shall be black unless otherwise specified.

METHODS

CHAIN LINK FENCE

Chain link fence shall be installed and stretched tight between posts.

All connection bolts shall not extend more than 1/4 inch past the end of the nut and be free from burrs.

TUBULAR STEEL PAINTING

Prior to priming and painting, all steel shall be made free of loose mill scale, rust, oil and grease. Welds shall be smoothed by grinding. Damage to "factory" coated tubular steel or chain link fencing shall be repaired after installation by sanding damaged paint surfaces and by applying one coat of manufacturer specified primer and two new coats of specified color coat.

7. PAINTING

MATERIALS

Paint systems, catalog names, and product numbers listed below are based on products of Dunn-Edwards Corporation. This shall be considered the standard of quality against which the Department of Recreation and Parks will judge equivalency. Equivalent materials from alternate manufacturers will be considered as an approved equal. Contractor's material submittal for proposed alternate must include complete material specifications from manufacturer. Paint systems described below are for specific surfaces as indicated. In addition to the information provided herein, paint materials shall also be governed by the requirements set forth in section 210-1 of the SSPWC.

Ferrous Metal Tubular Shapes (Non-Galvanized), Semi-Gloss

Painting Sequence	Finishing Schedule	Recoat And Drying Time	Coverage At Required Wet Film Thickness	Required Wet Film/Dry Film Thickness
1 st coat: Synthetic alkyd white corrosion inhibiting primer	Corrobar (43-5)	Min. 24 hrs. Max. 72 hrs.	450 square feet per gallon	3.5 wet mils; 2.0 dry mils
2 nd coat: Semigloss enamel acrylic latex exterior enamel	Permasheen (W 901)	Dry to touch: 30 min.; Recoat: 4 hrs.	375 square feet per gallon	4.2 wet mils; 1.5 dry mils
3 rd coat: Semigloss enamel acrylic latex exterior enamel	Permasheen (W 901)	Dry to touch: 30 min.	375 square feet per gallon	4.2 wet mils; 1.5 dry mils

Non ferrous metals (Galvanized steel, Aluminum, Cor-Ten® Steel), Semi-Gloss

Painting Sequence	Finishing Schedule	Recoat And Drying Time	Coverage At Required Wet Film Thickness	Required Wet Film/Dry Film Thickness
Pre-coat: galvanized steel only. Acid etch*	Galva-etch (GE 123)	n/a	n/a	n/a
1 st coat: Alkyd primer	Galv-Alum (QD 43-7)	Dry to touch: 30 min.; recoat: 2 hrs. † Max. 48 hrs.	350 square feet per gallon	4.6 wet mils; 2.0 dry mils
2 nd coat: Synthetic alkyd white corrosion inhibiting primer	Permasheen (W 901)	Dry to touch: 30 min.; Recoat: 4 hrs.	375 square feet per gallon	3.5 wet mils; 2.0 dry mils
3 rd coat: Semigloss enamel acrylic latex exterior enamel	Permasheen (W 901)	Dry to touch: 30 min.	375 square feet per gallon	4.2 wet mils; 1.5 dry mils

* Galva-etch is a water reducible acid pre-treatment for galvanized metals. Do not use on aluminum.

† Recoat time for Galv-Alum is 2 hours if material is sprayed, 16 hours if brushed or rolled. Second coat must be applied within 48 hours

Primers, Sealer, and Undercoaters

Alkyd based	Block-it (QD 42-56) Quick-dry pigmented primer/sealer	Dry to touch: 30 min.; Recoat: 1 hr.	435 square feet per gallon	3.7 wet mils; 1.5 dry mils
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PAINTING cont.

METHODS

GENERAL

Refer also to section 310-1of the SSPWC.

COLOR SPECIFIED

Colors shall be selected from color chip samples provided by manufacturer of paint system approved for use by the Department of Recreation and Parks.

CONDITION OF SURFACES TO BE PAINTED

Contractor shall verify condition of surfaces to be painted prior to commencement of painting work. Work of other trades that been left or installed in a condition that is not suitable to receive paint, stain, or other specified coatings shall be immediately called to the attention of the Department of Recreation and Parks. Painting of defective or unsuitable surface implies acceptance of the surfaces.

PROTECTION OF EXISTING WORK

The Contractor shall take all necessary precautions to protect previously installed work and materials which may be affected by work. Items to be protected include, but are not limited to, turfgrass, shrubs, trees, ground cover, prefinished surfaces and adjacent surfaces. Contractor shall furnish at his expense sufficient drop cloths, shields, and other protective devices necessary to prevent spray or splatter from fouling surfaces not being painted. Contractor shall be responsible for protecting equipment and fixtures from damage resulting from use of fixed, movable and hanging scaffolding, planking and staging, (310-1.4)

- PROTECTION Onan F NEW PAINTING**

"WET PAINT" signs, barricades, and such other devices as are required to protect newly finished surfaces shall be provided. Contractor shall be responsible for removal of signs protective materials, and temporary protective wrappings provided by others for protection of their work after completion of painting operations.

SURFACE PREPARATION, GENERAL

The Contractor shall prepare preparation and cleaning procedures in strict accordance with coating manufacturer's instructions for each substrate condition, (310-2)

- SURFACE PREPARATION FOR GALVANIZED SURFACES**

Galvanized surfaces shall be prepared for painting in accordance with section 310-3 of the SSPWC.

- SURFACE PREPARATION FOR WOOD SURFACES**

Wood surfaces shall be prepared for painting in accordance with section 310-4 of the SSPWC.

APPLICATION

The Contractor shall apply painting and finishing materials in accordance with the manufacturer's printed instructions. Application methods and techniques that are best suited for the materials and surfaces to which coatings are being applied shall be used, (310-5)

The number of coats specified is the minimum that shall be applied. All undercoats shall be tinted to the approximate color of the finish coat. The Contractor shall apply additional coats when undercoats, stains, or other conditions show through the final paint coat, until paint film is of uniform finish, color and appearance.

Each material shall be applied at not less than the manufacturer's recommended spreading rate and mil thickness. The total dry-film thickness of coatings shall not be less than 1.2 mils for each required coat.

CLEANING, TOUCH-UP AND REFINISHING

The Contractor shall remove all spattering, spots and blemishes caused by work done throughout the work period. Upon completion of painting, the Contractor shall remove all rubbish, paint cans and accumulated materials resulting from work and dispose of off site. All areas of work shall be left in a clean, orderly condition. Rugs, saps, misses, holidays, stains, or any other defects in the painted surfaces, including inadequate coverage and mil thickness, shall be satisfactorily touched up, refinised, or repaired a necessary to produce a result satisfactory to the Department of Recreation and Parks.

8. LANDSCAPE PLANTING

MATERIALS

AMMONIUM PHOSPHATE

Shall be a standard agricultural grade of ammonium phosphate having guaranteed analysis of 16-20-0.

GYPSUM

Shall be agricultural grade.

ESTABLISH - GENERAL PURPOSE FERTILIZER

Shall have a minimum analysis of 1-1.3-5,(N-P-K), derived from rock phosphate, peat moss, chicken manure, sand, sulfate of potash, gypsum, and EDHHA chelate. As manufactured by Earth Works Soil Amendment, Inc., (310) 322-9702, or an approved equal.

HYDROSEED MULCH FIBER

Shall consist of virgin wood fiber of Aspen or Alder. It shall not contain any waste paper, newspaper or straw material. The mulch shall contain a green dye to facilitate application. Fiber shall be as manufactured by Conwed Co., (Green Tag), Silva-Fiber by Weyerhaeuser Co., or an approved equal, (212-1.2 (e)).

HYDROSEED STABILIZER

Shall consist of natural mucloid materials supplied by Ecology Controls M-binder, (805) 684-0436, no equal.

HYDROBLEND SOIL ACTIVATOR

Shall have a minimum analysis of 1.2-1.4-5, (N-P-K), derived from rock phosphate, peat moss, chicken manure, sulfate of potash, gypsum. As manufactured by Earth Works Inc., (310) 322-9702, or an approved equal.

FEATHER MEAL

Shall have a minimum analysis of 12-0-0,(N-P-K), derived from feathermeal. As manufactured by Earth Works Inc., (310) 322-9702, or an approved equal.

NITROFORM UREAFORM

Shall be a standard commercial grade of nitroform having a guaranteed analysis of 38-0-0.

ORGANIC AMENDMENT

Shall be type I organic soil amendment, consisting of nitrolized fir shavings.

OVERSEED TOPDRESSING, EARTH WORKS ORGANIC TOPDRESSING

Shall be, derived from composted wood products, peat moss, chicken manure and a wetting agent. As manufactured by Earth Works Inc., (310) 322-9702, or an approved equal.

Potassium sulfate

Shall be a standard agricultural grade of potassium sulfate having guaranteed analysis of 0-0-50.

ROUNDUP

Shall be a water-soluble herbicide for non-selective control of weeds containing 480 grams per liter of the active ingredient Isopropylamine salt of N-(phosphonemethyl) Glycine (Glyphosate) per U.S. gallon, as manufactured by Monsanto Chemical Company, or approved equal.

PRE-EMERGENT HERBICIDE

Shall be Balan Granular, by Elanco, or an approved equal. All pre-emergent herbicides, when required, shall be specified and applied by a licensed Pest Control Advisor.

FERTILIZER TABLETS

Shall be fertilizer tablets shall be Agriform 21 gram, 20-10-5, available from Western Farm Service, (805) 487-4691.

MULCH

Shall be seasoned tree chip mulch, free all foreign matter including weed and tree seeds. Mulch chip size shall be minimum one (1) inch in diameter and not more than two (2) inches in diameter. Submit sample of mulch and source to the Project Landscape Architect/The Department of Recreation and Parks for approval prior to application.

WATER HOLDING POLYMER

Shall be "Broadleaf P-4"

METHODS

TOPSOIL PREPARATION - GENERAL

The type and thickness of topsoil shall be as shown on the plans. If not shown, the topsoil shall be the existing class "C" on-site topsoil. Remove all stones over 1 inch in greatest dimension, to a depth of 6 inches below finish grade, (308-2.3.1).

Prior to planting, the top six (6) inches of all areas (including slopes) shall be free of weeds, stones, and other deleterious matter one (1) inch in diameter and larger.

RAP STAFF/ CONTRACTOR TO: Provide agricultural suitability tests from a approved Lab for all areas that are to be planted. Depth of test to coincide with size of material to be planted, ie: bore depth for turf 6, 12" for shrubs and 24" for trees

TOPSOIL PREPARATION

If not otherwise specified, all lawn and ground cover areas shall receive the following soil preparation: 3 cubic yards, Type I organic soil amendment per 1,000 sq. ft., (.003 CY/Sq.Ft.) 75 lbs of Establish per 1,000 sq. ft., (.075 Lbs./Sq.Ft.) 5 lbs. of Feathermeal, 12-0-0, per 1,000 sq. ft., (.005 Lbs./Sq.Ft.) NO AMENDMENT TO BE USE IN PLANT PITS FOR NATIVES.

The soil preparation materials shall be cultivated into the soil to a depth of 6 inches minimum and thoroughly watered, (308-2.3.1).

LANDSCAPE PLANTING cont.

FINISH GRADING (FOR LAWN AREAS)

Finish grading of lawn areas shall take place after the soil has dried out to a workable condition following the soil preparation operations. The soil shall be remodeled and smoothed to the required grades and contours, then rolled in two directions at right angles with a water ballast roller weighing 200 to 300 pounds. Any resulting irregularities in the grade after the initial rolling shall be re-raked, cut or filled, then re-rolled until the grade is free from irregularities. No heavy objects shall be taken over the areas at any time. The final finish grade shall be uniform, without abrupt changes in grade, within one-tenth of a foot of the grades shown on the plan, and approved by the Department of Recreation and Parks prior to seeding, (308-2.4).

WEED ABATEMENT ("GROW AND KILL")

Weed abatement shall apply to all turf and planting areas. The abatement operation shall be commenced only after removals, grading, hardscape, construction, installation of irrigation system, soil preparation, and fine grading of turf and planting areas have been completed. NO PLANTING SHALL COMMENCE UNTIL APPROVAL OF WEED ABATEMENT BY THE PROJECT LANDSCAPE ARCHITECT.

NOTE: It is required that herbicides be applied by a licensed PEST CONTROL APPLICATOR.

CONTRACTOR RESPONSIBILITY DURING WEED ABATEMENT OPERATION AND APPLICATION PRECAUTIONS

The Contractor shall abide by all laws and codes governing weed abatement operations including but not limited to CAL-OSHA requirements and The Healthy School Act which includes 72 hour notice to employees and patrons, submittal of a "Pest Control Recommendation Form" to Recreation and Parks, and a completed and accurate MSDS (Material Safety Data Sheet) to be at the site of application. The area of application shall be posted as safe and barricaded for public safety and information. On sites over 1/2 acre in size the contractor shall utilize a Department of Recreation and Parks approved plan of phasing the application.

The Contractor is responsible or any and all damage done to plant materials outside of the treatment area. Contractor shall replace, in kind and size, any plant material damaged or killed through the application of herbicide.

Any Contractor, who is obligated under contract with the Department for the construction or refurbishment of a park facility that involves the intended use of herbicides or other pesticides, must first notify the pest management supervisor of the Forestry Division. Prior to any approved pesticide applications at any recreation/child care center, the contractor is also required to notify the recreation director-in-charge at least 72 hours in advance of the date/s of application. This is to conform to the State of California Healthy Schools Act of 2000(AB2260). Also, all pest control work performed at any facility should fall within the guidelines of the Department's IPM programs. In addition, each individual project will require a written recommendation by a licensed Pest Control Advisor for any pesticide application.

Any questions regarding pesticide application and procedures at Recreation and Parks facilities shall be directed to the Department of Recreation and Parks and the Department's Forestry group, Vegetative Management (213) 485-4826.

In addition to the afore listed responsibilities the following precautions shall be observed in handling and applying herbicide:

- Before applying, Contractor shall read and understand all instructions provided by the manufacturer.
- Product shall not be used when winds are gusty or in excess of 3 miles per hour, or when any other conditions exist, which would result in drift.
- Avoid combinations of pressure and nozzle type or adjustment that result in mist.
- Do not apply during rain, or if rain is forecast within twelve hours. If rain occurs within twelve hour period, material must be reapplied after plant growth has dried out.
- Contractor shall observe extreme care not to allow spray to contact desirable plant material. Use cardboard, plywood, or other appropriate material to shield plant materials outside of the treatment area from overspray.
- Do not apply to bare ground.
- Do not add any other products to any herbicide mix, including spreader stickers or surfactants, unless required by the label directions and approved by the Department's Pest Control Advisor (PCA).

WEED ABATEMENT: GROW AND KILL METHOD

Contractor shall follow the "grow and kill" steps set forth below:

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

LANDSCAPE PLANTING cont.

MAINTENANCE AND PLANT ESTABLISHMENT

The Contractor/RAP Construction staff shall be responsible for maintenance within the area of work throughout the period of construction and the plant establishment period. The maintenance shall include continuous operations of watering, the removal of all weeds in planting areas and all broad leaf weeds in lawn areas, mowing, rolling, trimming, edging, cultivation, fertilization, spraying, control of pests, insects and rodents, reseeding, plant replacement (irrespective of cause), or any other operations necessary to assure normal plant growth and the collection and removal of all trash daily. Any malfunctions of, or damage to, the irrigation system caused by the Contractor or RAP staff in the prosecution of his work shall be repaired within 24 hours.

The plant establishment period shall be for a period of 90 days unless extended as described in this section. The plant establishment period shall be started when all planting and related work has been completed, in accordance with the contract documents. The beginning of the plant establishment period shall be determined by an on site review by the Department of Recreation and Parks Project Landscape Architect. Trees and shrubs shall be healthy and vigorous at the completion of the maintenance period. Broken or vandalized tree stakes shall be repaired to a condition as initially installed within seven (7) days of damage.

All lawn areas shall have 95 percent coverage with bare areas not exceeding three square inches. All lawns shall be of the grass specified and be free from all broad leaf weeds.

RAP Staff shall maintain the area of work at maximum seven (7) day intervals and perform any needed tasks to keep the plants in an optimum growing condition.

Five weeks after lawn seeding the RAP staff shall apply a slow release fertilizer at per soils test recommendations. The fertilizer shall be applied in the presence of the Department of Recreation and Parks.

The RAP staff shall immediately replace any and all plant materials and/or grass which, for any reason dies or is damaged while under the Contractors care. Replacement shall be made with seed and/or plants as indicated or specified for the original planting.

All shrubs and ground covers shall be guaranteed for a period of ninety (90) days from the end of the plant establishment period. All trees and shrubs 15 gallon size or larger shall be guaranteed for a period of one (1) year from the end of the plant establishment period.

The designated plant establishment period is part of the total contract time. The plant establishment period will be extended at fourteen (14) day intervals if, at the end of the plant establishment period, the planting, irrigation and other improvements do not reflect the intent of the plans .

GENERAL ELECTRICAL REQUIREMENTS

GENERAL

DESCRIPTION

- A. Comply with all provisions of the General Conditions, Supplementary Conditions and General Requirements as applicable to work of all Sections of Division 16 (CS) concerning definitions, guarantees, submittals, as-builts, clean-up, etc.
- B. ALL WORK TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) UNLESS OTHERWISE SPECIFIED.
- C. All work of this Division shall be coordinated with work of other trades.

SCOPE

- D. Required: Provide all labor, materials, equipment, tools and appliances required to furnish and install all electrical work as required for the project. Submit drawings of intended system. Drawings should include but are not limited to the following:
 1. All construction power and lighting and power for testing equipment and systems through final acceptance of test.
 2. Power and lighting service raceway(s) underground from the property line to (an on-site padmount transformer) (an on-site transformer vault) the main service switchboard(s). A () jamper, () volts, () phase, () wire underground supply from the transformer(s) to the main service switchboard(s). Note: Parenthesis with double underlining indicate choices to be made by the specifier.
 3. Complete lighting and power system(s) including branch circuits, fixtures, outlets, lamps, switches, controllers, and auxiliary equipment.
 4. Complete distribution system(s) including switchboards, panelboards, transformers, feeders, and auxiliary equipment.
 5. Complete system of exterior (vandal resistant) lighting.
 6. Underground service conduits from property line to _____.
 7. Complete Grounding System.
 8. Complete Intercom System(s)
 - a. Telephone system, including service raceways, cabinets, backboards, grounding, and ac power provisions.
 - b. Television antenna and coaxial cable distribution system.
 9. Distribution for emergency power system including but not limited to a central battery inverter, lighting panelboard and branded circuit wiring.
- 10. Conduit System including backboards, pullboxes, wiring devices, grounding, etc. for the following as applicable:
 - c. Telephone System
 - d. Television antenna and coaxial cable distribution.
- 11. Control wiring and devices for equipment specified in Sections of Division 16 and other Technical Sections, except where specifically indicated.
- 12. Complete and Operable Fire Alarm System.
- 13. Connection and testing of electrical equipment and controls specified in Division 16 and other technical sections, except where specifically indicated or noted elsewhere on the Contract Drawing or in the Specifications.
- 14. Applicable excavating, trenching and backfilling.

WORK NOT INCLUDED

- E. Furnishing all electrical or partially electrically devices related uniquely to mechanical equipment and only as specified in the Mechanical Division 15.
- F. Furnishing and installing of all motors.

LEGAL REQUIREMENTS AND STANDARDS

- G. Required: Comply with the latest, as applicable and effective, during the progress of Contracted Work.
 14. Latest Los Angeles City Electrical, Fire and Building Codes and U.B.C. Supplement.
 15. California State Administrative Code, Title 24, State Building Standard.
 16. (CAL/OSHA) California State Occupational Safety and Health Act.
 17. California State Fire Marshal Standards.
 18. Los Angeles City Department of Water and Power.
 19. U.L. - Underwriters Laboratories Inc.
 20. NEC - National Electric Code.

- 10. Conduit System including backboards, pullboxes, wiring devices, grounding, etc. for the following as applicable:
 - c. Telephone System
 - d. Television antenna and coaxial cable distribution.
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 18. Los Angeles City Department of Water and Power.
 19. U.L. - Underwriters Laboratories Inc.
 20. NEC - National Electric Code.
 21. ASTM - American Society of Testing and Materials.
 22. Current publications of the National Fire Protection Association.
 23. National and American Standards Association.

H. General Compliance As Applicable

- 24. Drawings and specification requirements shall govern where they exceed Code requirements.
- 25. Where requirements between governing Codes and Regulations vary, the more restrictive provision shall apply.
- 26. Nothing contained in Contract Documents shall be construed as authority or permission to disregard or violate legal requirements.

GENERAL REQUIREMENTS

- I. Permits and Inspections:
 - 27. Apply and pay for all required electrical work (construction and installation) prescribed by legally constituted public authorities.
 - 28. Arrange and pay for all required inspections or examinations and shall deliver "certifications" of such inspections to the Architect or City Engineer prior to acceptance of the electrical work. Obtain approved plans from the Los Angeles City Department of Building and Safety.
- J. Site Inspections:
 - 29. Carefully examine the job-site and existing facilities and prepare the Contract Drawings for work coordination.
 - 30. By act of submitting bid, it will be deemed the Contractor has made required inspections and has accepted such job-site conditions and has made allowances thereof in the preparation of "Bid" figures.
- K. Verification of Dimensions: All dimensions (scaled, figured or noted) are approximate, given for estimating purposes. Before proceeding with work Contractor shall carefully check and verify all dimensions, sizes, etc. and shall assume full responsibility for proper fitting in and attachment of all materials and equipment to other equipment and to the structure.
- L. Examination of the Contract Drawings:
 - 31. No contract drawings are provided. Contractor to provide all relative documentation required successfully install electrical system. Plans shall be stamped by a licensed, by the state of California, Electrical Engineer.
- M. Substitutions:
 - 32. Items, articles or products named on the Contract Drawings and in the Specifications are intended to establish a standard of quality and required functional performance.
- N. Submittals:
 - 33. Prepare, review and coordinate schedule of submittals, determining necessary lead time for preparation, submitting, checking, and ordering and delivering materials and equipment to the job-site for timely arrival and conformance with the overall Construction schedule.
 - 34. All submittals will be checked for general compliance with Specifications only.
 - 35. Shop drawings shall be submitted in completed groups of materials (i.e., all lighting fixtures or all switchgear, etc.). The Contractor shall add and sign the following paragraph on all equipment and materials submitted for review.
 - e. "It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into the project; is in compliance with the Contract Drawings and Specifications and can be installed in the allocated spaces".
 - f. Failure to add the above written statement for compliance will result in return of submittals to be reviewed.
 - 36. All required submittals on electrical items and equipment shall include complete catalog information such as construction ratings, insulation systems, including manufacturer's certification that items or equipment meet or exceed U.L. and Trade Standards, and the Specifications.
 - 37. Equipment Floor Plans: Submit after approval of material and/or equipment is secured. Prepare for each electrical equipment room drawn to 2" = 10" scale. Layout drawing shall be to exact scale.
 - 6. Materials list of items and equipment proposed to be provided for the work of this Division 16 and shall include the following as applicable:
 - g. Service and distribution switchgear.
 - h. Motor control centers.
 - i. Central battery inverter.
 - j. Lighting panelboards.
 - k. Dry type transformers.
 - l. Conduits.
 - m. Conductors.
 - n. Electrical equipment layout at 2" = 1'-0" scale indicating exact dimensions of equipment, clearances, housekeeping pads.
 - o. Disconnect switches, pull boxes and fuses.
 - p. Lighting fixtures.
 - q. Fire alarm and detection system.
 - r. Control devices, standard and special receptacles, switches and finish device plates.
 - s. Cabinets for signal and telephone systems, special terminals and cabinets.
 - t. Vibration isolators, including lateral and vertical seismic restraints.
 - u. All fabricated equipment.

- u. Clock and program system.
- v. Time clocks, contactors, control switches, etc. including wiring diagrams and sequence of operation.

O. Special Submissions:

- 38. Test Reports For The Following:
 - w. Ground fault devices.
 - x. Megger Readings: Ground system, motors, feeders and switchgear.
 - y. Voltage Readings: Distribution, service and motors.
 - z. Fire alarm system.
 - 39. Maintenance service and operating manuals for all equipment.
 - 40. Items as outlined in other Sections.
- P. "No Exceptions Taken": Be responsible for equipment ordered and/or installed prior to receipt of shop drawings returned from the Architect bearing the Electrical Engineer's stamp of "No Exceptions Taken". Corrections or modifications to equipment as noted on shop drawings shall be performed or equipment removed from the job site at request of Architect without additional compensation.
- Q. Disapprovals: Any article or equipment supplied by the Contractor disapproved by the Architect or City Engineer as not conforming to the Specifications or not of proper quality or grade or suitability shall be deleted and suitable article or equipment be provided in lieu thereof in conformance with the Specifications at no added cost to the City.
- R. Terminology:
 - *Note: Specifier should name at least two manufacturers plus the words "or equal".
- S. Contract Drawings: Make such drawings sufficiently complete for the proper installation and operation of the proposed materials or equipment, and for construction by all of the involved trades of the proposed revisions.

The cost of the drawings and any revisions to them do to review process comments shall be borne by the Contractor.
- T. Record Drawings: Provide as-built record drawings for all work done. See also applicable provisions of THE GENERAL REQUIREMENTS.
- U. Operation and Maintenance Manuals: Prior to final acceptance of Contracted Work by the City, furnish 4 bound copies of operation and maintenance manuals for each electrical equipment, as required in this Section. The contents shall include description of equipment, names of manufacturers, parts lists, model numbers, maintenance schedules, location of nearest facility for replacement parts or service, wiring and connection diagrams, internal schematic drawings, and other electrical/mechanical data necessary for operation and maintenance.

(END OF SECTION)

General Grading Notes:

- 1) All trees to be planted in either an elevated berm or elevated planter. There shall be a minimum of 3' of clean soil between the top of the non permeable soil slab and the area where with the trees are to be planted.
- 2) Contractor will provide all necessary agronomic suitability soil testing on site.
- 3) Contractor to provide licensed hazardous waste hauler and provide manifest copies to the City prior to completion of the project.
- 4) Contractor to pay and process a City of Los Angeles Department of Building and Safety grading and haul route permit.
- 5) If any abandoned oil wells are encountered, the contractor shall contact the State Division of Oil, Gas and Geothermal Resources for inspection and direction. All work within an approximate radius of 50 feet, and or any work that is requiring a access through the radius as indicated above, of any unforeseen oil well shall stop until appropriate direction is received from the City.
- 6) Contractor shall have identified an area for stockpiling of soil while contamination soil results are being assembled. Stockpile shall be covered with Visqueen and secured until a appropriate site for disposal and or reuse is identified.
- 7) Site shall be secured with 6 foot temporary chain link fencing for the duration of the contract. During site grading and excavation, an onsite, unarmed security officer is required.
- 8) Any railroad tracks encountered shall be recycled. Railroad ties shall be disposed of at appropriate landfill.
- 9) All grading & drainage plans and sportsfield lighting foundations shall be designed, approved, wet stamped, and signed by a California licensed civil engineer.
- 10. Complete 3 grow and kill cycles on the site prior to commencement of construction. Grow and Kills to utilized a RAP approved herbicide. Verify herbicide with RAP Forestry Division prior to use.
- 11. All debris and deleterious material to be removed and disposed of at a Los Angeles City approved facility for such.
- 12. Dust to be control via site watering. Contractor to adhere to BMP practices applicable to this site and project.

TREE PROTECTION SPECIFICATIONS

1.01 TREE PROTECTION

- (a) All trees that occur within the area of work, as shown on the plans, and NOT specifically designated for removal, shall be protected by the following means:
 1. ANY FAILURE BY THE CONTRACTOR TO ADHERE TO THE REQUIREMENTS SPECIFIED BELOW WILL RESULT IN THE SUSPENSION OF ALL CONSTRUCTION ACTIVITIES, TO BE DONE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF OR PAYMENT FOR ANY TREES DAMAGED THROUGH NON-COMPLIANCE WITH THESE SPECIFICATIONS. THE MONETARY OR REPLACEMENT VALUE OF IMPACTED TREES WILL BE DETERMINED BY A RECREATION AND PARKS (RAP) ARBORIST OR BY A RAP APPROVED ARBORIST.
 2. Defining the Tree Protection Zone (TPZ) – The radius (~~not the diameter~~) of the TPZ, measured from the outside of the tree trunk, shall be calculated according to the following:
 - (a) Single trunk trees – multiply the trunk diameter in inches, measured 4.5' above grade, by 1.5 feet.
 - (b) Multi trunk trees – multiply the sum of the diameters of all trunks in inches, measured 4.5' above grade, by 1.5 feet.
 - (c) Palm trees – 5' from the base of the trunk.
 3. Beyond the TPZ, the contractor shall also be responsible for protecting all trees within the boundaries of the construction zone, including vehicular access areas, lay down areas, and any other areas impacted by construction activities. Any damage to trees in these areas shall also be subject to the same monetary or replacement requirements specified in #1 above. Any necessary root cutting in this area must be confirmed with either the RAP or other approved arborist. See also the General Conditions for any damage done by the contractor to landscaping or other park amenities that fall outside the boundaries of the construction zone.
 4. Within the boundaries of the construction zone (including the TPZ), the contractor shall be responsible for mitigating construction-related dust accumulation on all trees by spraying the trunks, limbs, and foliage with water to a maximum height of 30 feet during the months of April through November, at monthly intervals.
 5. Within the TPZ, the contractor shall adhere to the following requirements, including, but not limited to:
 - (a) No stockpiling or storage of any material, debris, or soil.
 - (b) No storage of any construction equipment.
 - (c) No vehicular access.
 - (d) No cutting of roots.
 - (e) No disturbance of soil or grade changes.
 - (f) No objects of any kind to be attached to tree trunks.
 6. The contractor shall install a 5' temporary chain link fence with one pedestrian access gate along the boundary of the TPZ. See detail for temporary chain link fence on detail sheet.
 7. The contractor shall provide one sign per each 20 lineal ft. of fence bordering the TPZ indicating that fencing shall not be removed. See sign detail that is included as part of the temporary chain link detail.

8. No work is permitted within the TPZ without the approval of: 1) the project landscape architect, 2) the project manager, and 3) RAP Forestry staff. Any work authorized within the TPZ must be done in accordance with the recommendations of a RAP arborist and under the supervision of a Monitoring Arborist. A Monitoring Arborist must be: 1) an ISA Certified Arborist or a Registered Consulting Arborist, with verifiable experience in protecting trees during construction; 2) approved by RAP Forestry. The Monitoring Arborist shall be hired and paid by the contractor.

9. Irrigation to all trees NOT specifically designated for removal shall be kept in operation for the duration of the project. Contractor shall be responsible for hand watering all impacted trees if necessitated by temporary shutdowns to existing irrigation systems. Trees are to be irrigated deeply and infrequently so that soil moisture is detectable at a minimum depth of 18" using a soil probe.

10. Upon job completion, contractor shall remove all items installed to protect trees during the construction process.

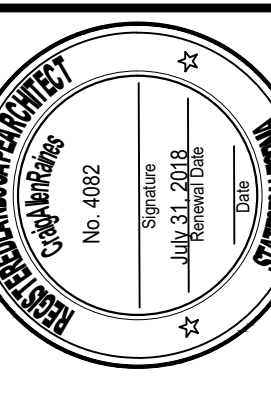
11. Any of the following Southern California native tree species fall under Ordinance No. 177404 of the Los Angeles Municipal Code:
 (a) Oaks, including Valley Oak (*Quercus lobata*), California Live Oak (*Quercus agrifolia*), or any other tree of the oak genus indigenous to California but excluding Scrub Oak (*Quercus dumosa*);
 (b) Southern California Black Walnut (*Juglans californica* var. *californica*);
 (c) Western Sycamore (*Platanus racemosa*);
 (d) California Bay (*Umbellularia californica*);
 Contractor shall comply with the requirements of the ordinance found at: http://cityplanning.lacity.org/Code_Studies/Other/ProtectedTreeOrd.pdf.

S:\Tree Protection\Tree Protection Specifications – April 3 2014

(END OF SECTION)



THE CITY OF LOS ANGELES
 DEPARTMENT OF RECREATION AND PARKS
 ASSISTANT GEN. MANAGER: Ramon Barrios
 GEN. MANAGER: Michael Shull
 PROJECT LANDSCAPE ARCHITECT: _____
 PROJECT ENGINEER: _____
 LIC. NO.: _____
 DATE: _____
 AS-BUILT DRAWN BY: _____



PROJECT NAME:
TRINITY SKATE PARK
 ADDRESS:
**2415 Trinity St,
 Los Angeles, CA 90011**

REVISIONS:	DATE:

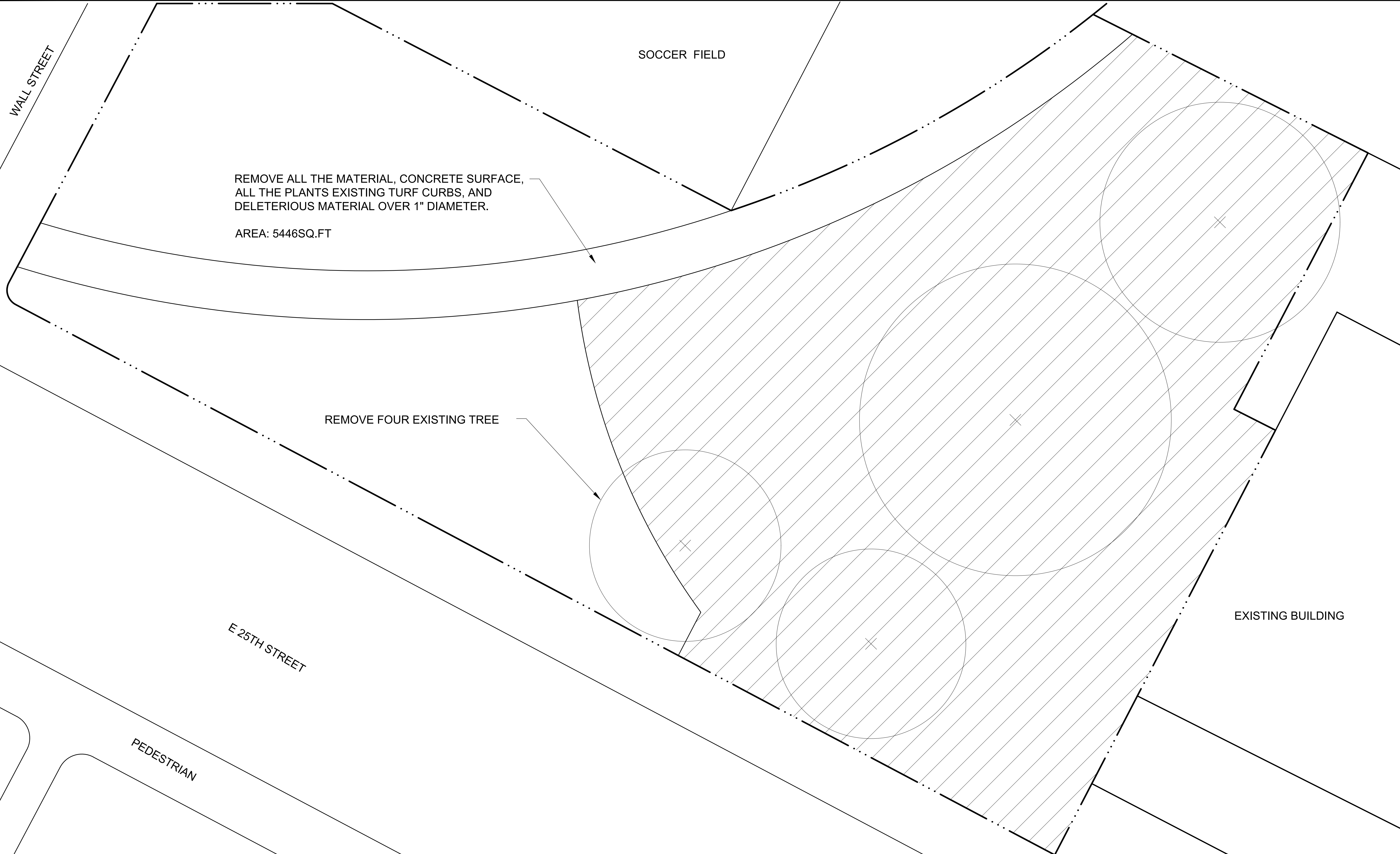
PLAN NAME:
Specifications

DRAWN BY: Phyo Hsing Gongying Fu	APPROVED BY: C. Rains
SCALE: nfs	ISSUE DATE:
PRJ #	FILE NO.

DRAWING NO.
SP-03

SHEET OF SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THE PLAN SHEET.



SOCCER FIELD

REMOVE ALL THE MATERIAL, CONCRETE SURFACE,
ALL THE PLANTS EXISTING TURF CURBS, AND
DELETERIOUS MATERIAL OVER 1" DIAMETER.
AREA: 5446SQ.FT

REMOVE FOUR EXISTING TREE

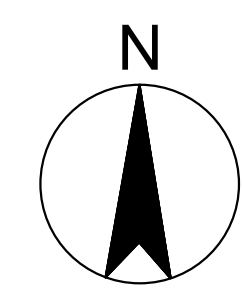
EXISTING BUILDING

WALL STREET

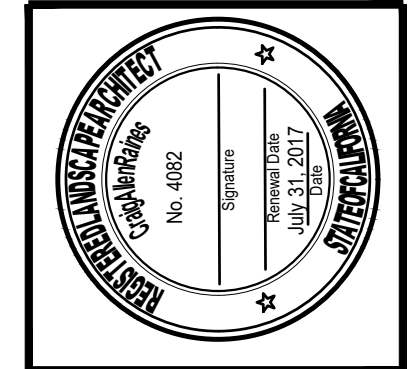
E 25TH STREET

PEDESTRIAN

NOTE:
LAYOUT OF ALL PROPOSED SITE ELEMENT WILL BE DONE UNDER THE SUPERVISION OF THE PROJECT LANDSCAPE ARCH IN RAP.



THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS
GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS
PROJECT LANDSCAPE ARCHITECT: GONGYING PU
PROJECT ENGINEER: ZHIYI HUANG
SUBMIT TO DRAWING: DATE:



PROJECT NAME:
TRINITY SKATE PARK
ADDRESS:
2415 Trinity St, Los Angeles, CA 90011

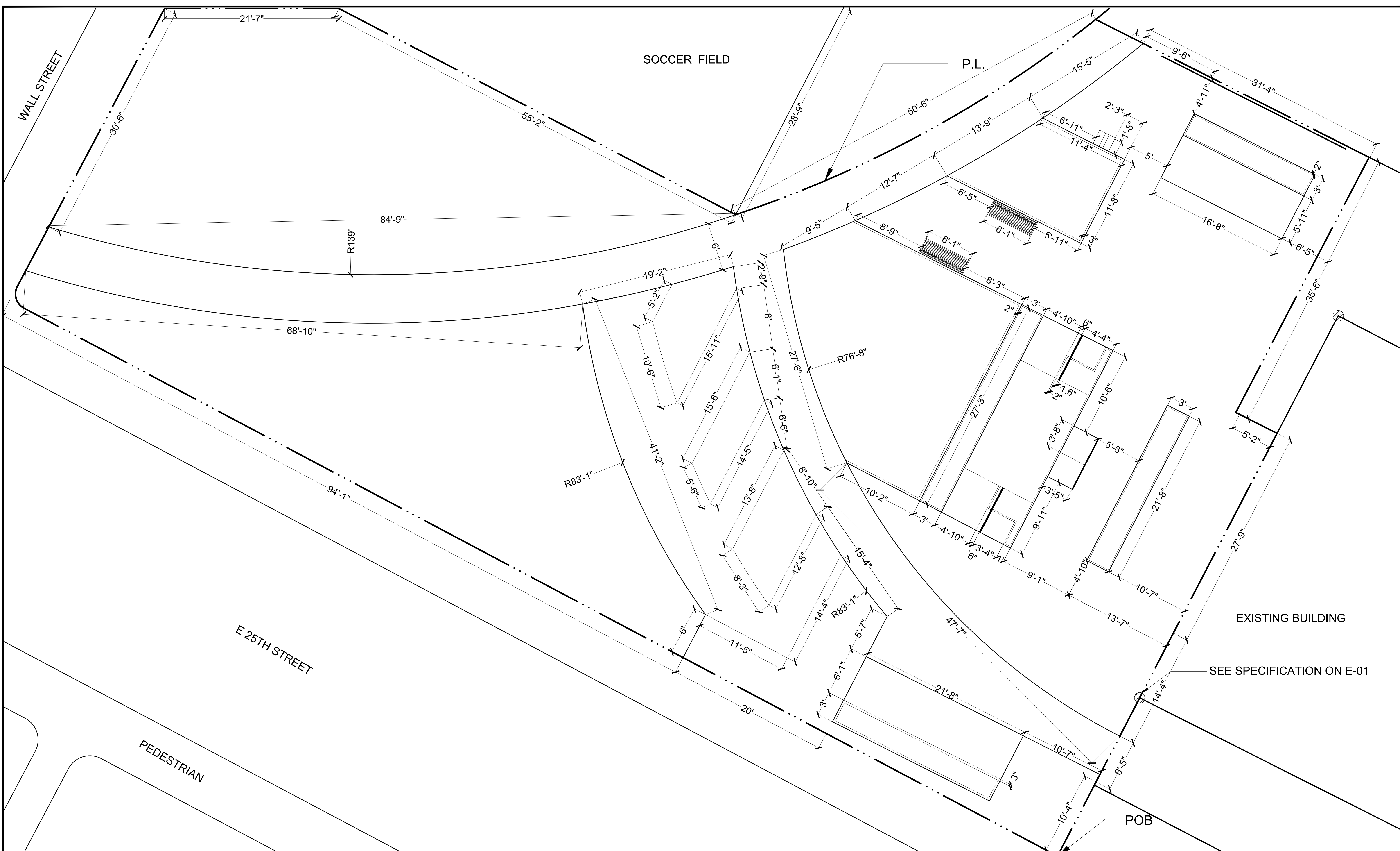
REVISIONS: DATE:

REVISIONS	DATE
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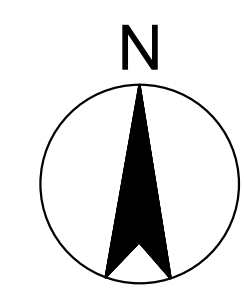
PLAN NAME:
**DEMOLISH
PLAN**

DRAWN BY:
GONGYING PU
ZHIYI HUANG
SCALE:
3/16"=1'-0"
PRJ # FILE NO.
APPROVED BY:
C. Raines
ISSUE DATE:
DRAWING NO.
LS-00
SHEET OF SHEETS

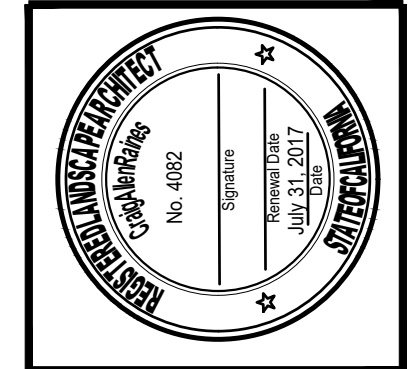
THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



NOTE:
LAYOUT OF ALL PROPOSED SITE ELEMENT WILL BE DONE UNDER THE SUPERVISION OF THE PROJECT LANDSCAPE ARCH IN RAP.



THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS
GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS
PROJECT LANDSCAPE ARCHITECT: GONGYING PU
PROJECT ENGINEER: ZHIHYA HUANG
SUBJECT TO DRAWING: _____ DATE: _____



PROJECT NAME:
TRINITY SKATE PARK
ADDRESS:
2415 Trinity St, Los Angeles, CA 90011

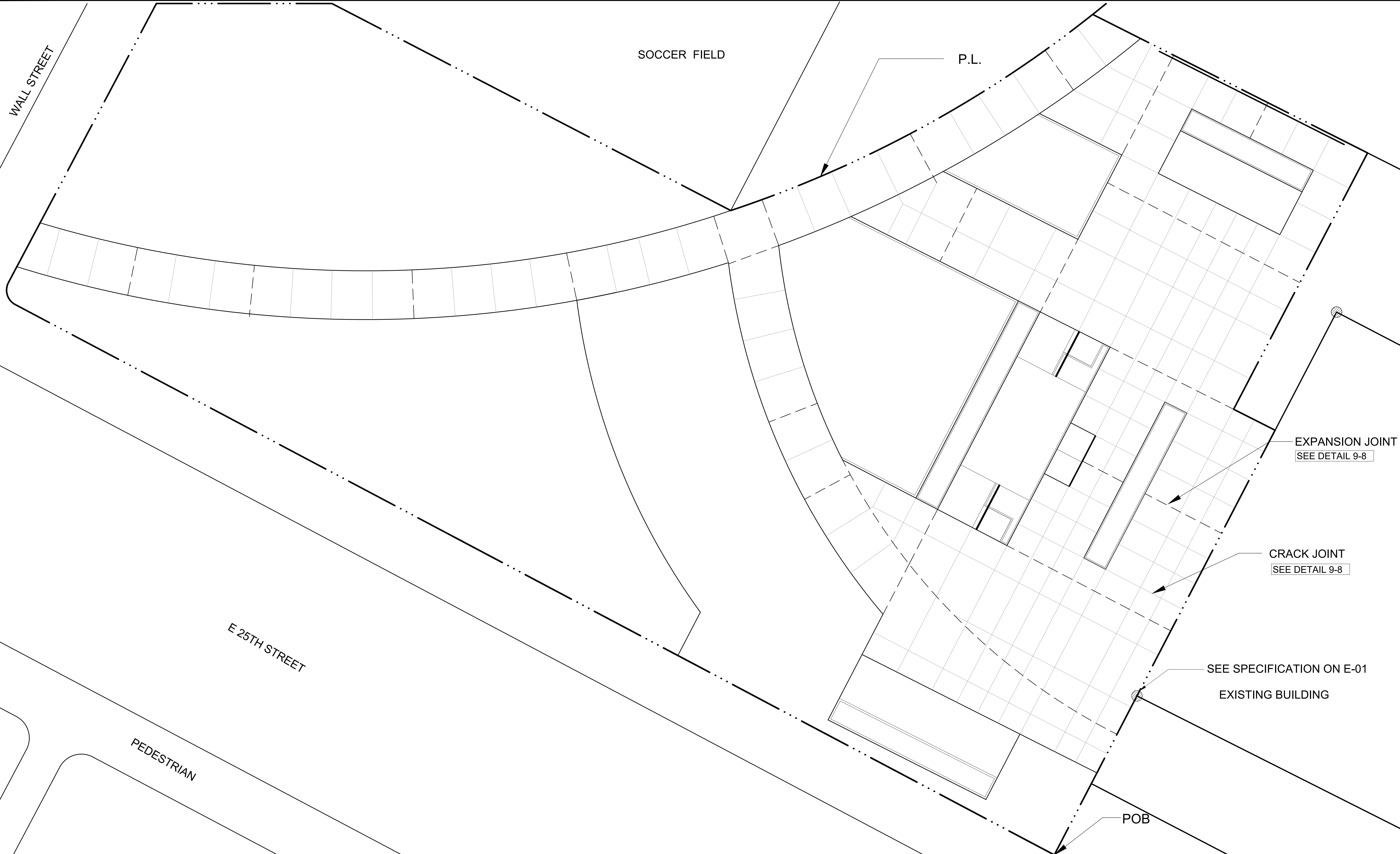
REVISIONS: DATE:

PLAN NAME:
LAYOUT
PLAN

DRAWN BY:
GONGYING PU
ZHIHYA HUANG
SCALE:
3/16"=1'-0"
PRJ # _____ FILE NO. _____
APPROVED BY:
C. Raines
ISSUE DATE:

DRAWING NO.
LS-01
SHEET OF SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



NOTE:
1.LAYOUT OF ALL PROPOSED SITE ELEMENT WILL BE DONE UNDER THE SUPERVISION OF THE PROJECT LANDSCAPE ARCH IN RAP.

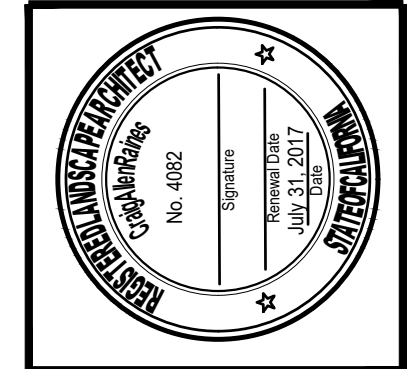


THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS

PROJECT LANDSCAPE ARCHITECT: GONGYING PU LIC. NO. 4882
PROJECT ENGINEER: ZHIYI HUANG LIC. NO. 4882

SUBJECT TO DRAWING: DATE:



PROJECT NAME:
TRINITY SKATE PARK

ADDRESS:
2415 Trinity St, Los Angeles, CA 90011

REVISIONS:	DATE:

PLAN NAME:
CRACK LINE PLAN

DRAWN BY:
GONGYING PU
ZHIYI HUANG

APPROVED BY:
C. Raines

SCALE:
3/16"=1'-0"

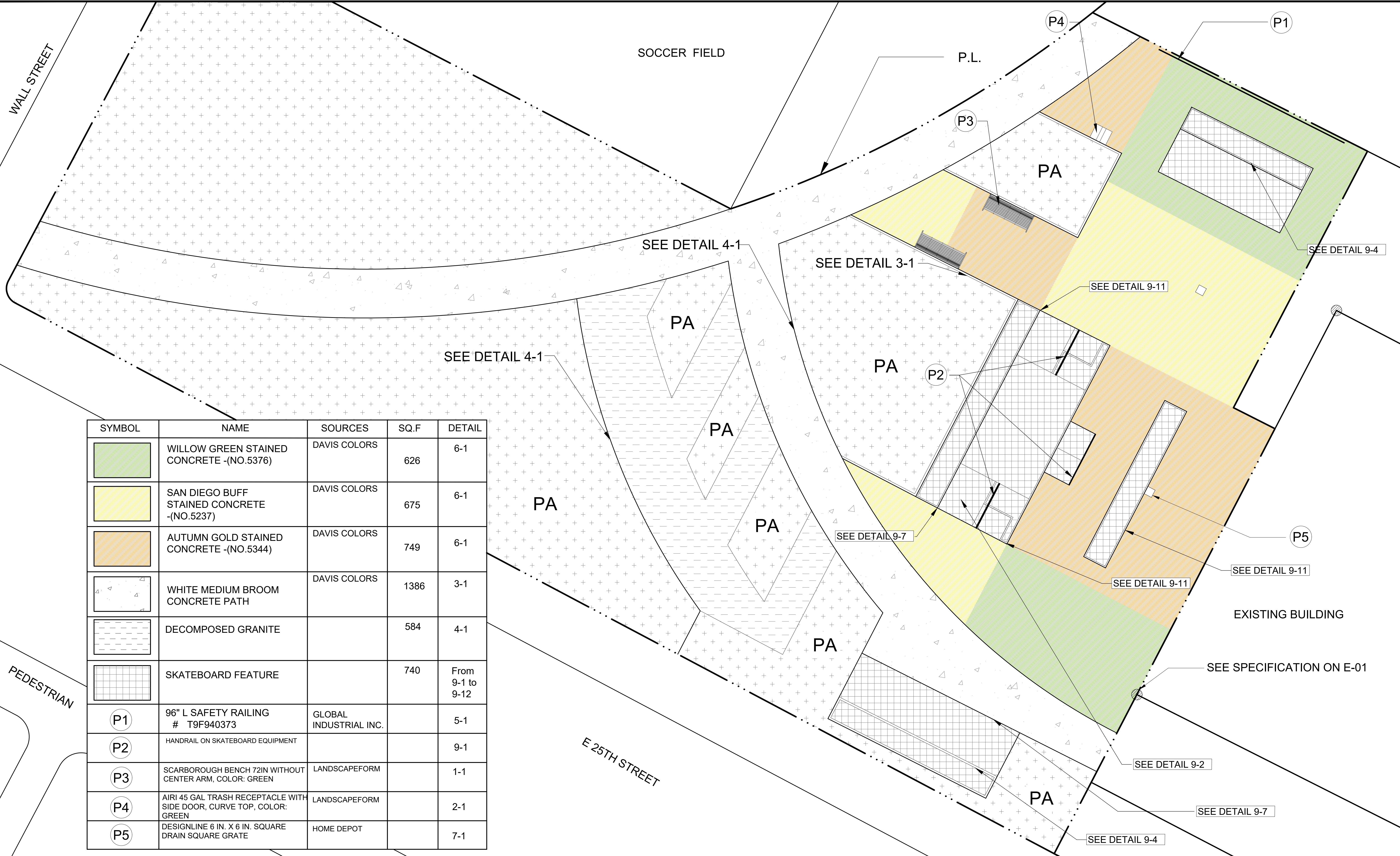
ISSUE DATE:

PRJ # FILE NO.

DRAWING NO.
LS-02

SHEET OF SHEETS

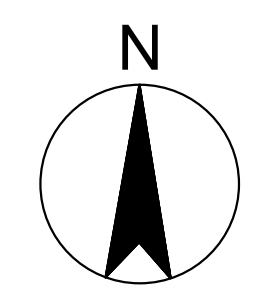
THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



SYMBOL	NAME	SOURCES	SQ.F	DETAIL
	WILLOW GREEN STAINED CONCRETE -(NO.5376)	DAVIS COLORS	626	6-1
	SAN DIEGO BUFF STAINED CONCRETE -(NO.5237)	DAVIS COLORS	675	6-1
	AUTUMN GOLD STAINED CONCRETE -(NO.5344)	DAVIS COLORS	749	6-1
	WHITE MEDIUM BROOM CONCRETE PATH	DAVIS COLORS	1386	3-1
	DECOMPOSED GRANITE		584	4-1
	SKATEBOARD FEATURE		740	From 9-1 to 9-12
	96" L SAFETY RAILING # T9F940373	GLOBAL INDUSTRIAL INC.		5-1
	HANDRAIL ON SKATEBOARD EQUIPMENT			9-1
	SCARBOROUGH BENCH 72IN WITHOUT CENTER ARM, COLOR: GREEN	LANDSCAPEFORM		1-1
	AIRI 45 GAL TRASH RECEPTACLE WITH SIDE DOOR, CURVE TOP, COLOR: GREEN	LANDSCAPEFORM		2-1
	DESIGNLINE 6 IN. X 6 IN. SQUARE DRAIN SQUARE GRATE	HOME DEPOT		7-1

NOTE:

- LAYOUT OF ALL PROPOSED SITE ELEMENT WILL BE DONE UNDER THE SUPERVISION OF THE PROJECT LANDSCAPE ARCH IN RAP.
- AS NOTE, THERE ARE TWO DETAIL TYPES, "SEE DETAIL" MEANS NORMAL CONSTRUCTION DETAIL, SEE DETAIL MEANS SPECIFIC SKATE BOARD CONSTRUCTION DETAIL.

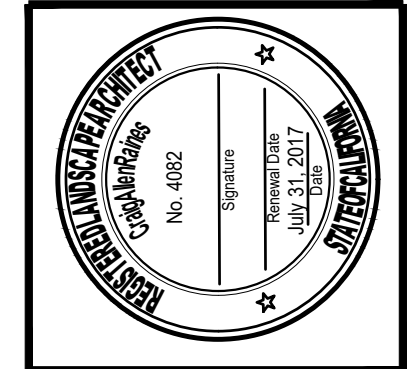


THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS

PROJECT LANDSCAPE ARCHITECT: GONGYING PU
PROJECT ENGINEER: ZHIHYA HUANG

UC NO. _____ DATE: _____
LIC NO. _____
SUBMIT TO DRAWING: _____



PROJECT NAME:
TRINITY SKATE PARK

ADDRESS:
2415 Trinity St, Los Angeles, CA 90011

REVISIONS:	DATE:

PLAN NAME:
MATERIAL PLAN

DRAWN BY:
GONGYING PU
ZHIHYA HUANG

APPROVED BY:
C. Raines

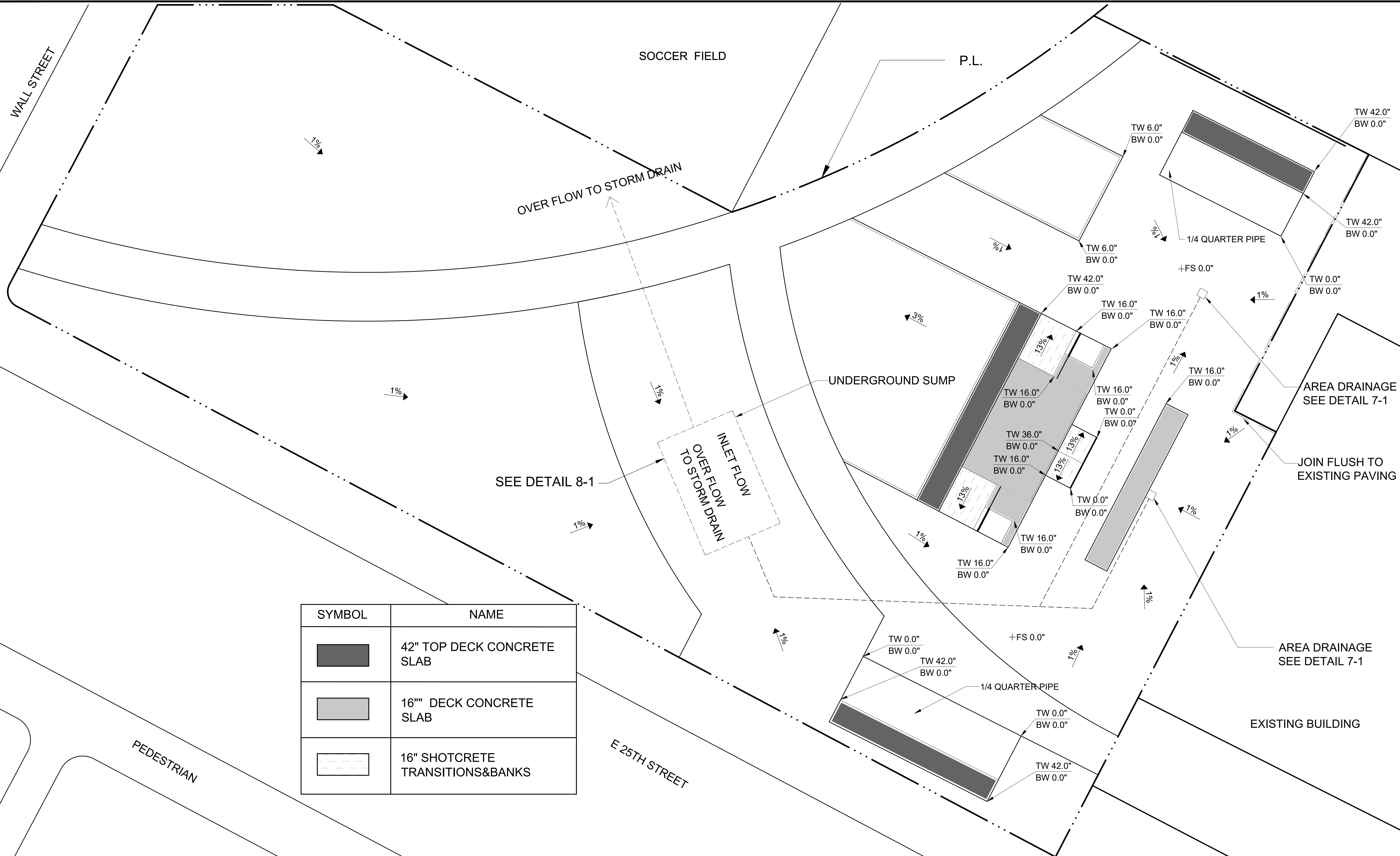
SCALE:
3/16"=1'-0"

ISSUE DATE:
PRJ # _____ FILE NO. _____

DRAWING NO.
LS-03

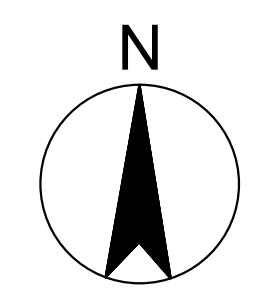
SHEET OF SHEETS

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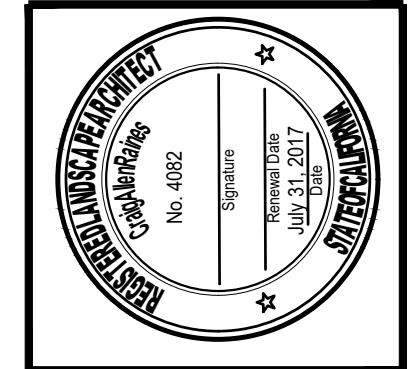


SYMBOL	NAME
	42" TOP DECK CONCRETE SLAB
	16" DECK CONCRETE SLAB
	16" SHOTCRETE TRANSITIONS&BANKS

NOTE:
 1. LAYOUT OF ALL PROPOSED SITE ELEMENT WILL BE DONE UNDER THE SUPERVISION OF THE PROJECT LANDSCAPE ARCH IN RAP.
 2. MAX 2% AND MIN 1% SLOPE WILL BE APPLIED IN PAVING AREA.
 3. WATER TO BE RETAINED ON SITE IN SUMP.
 4. AS NOTE, THERE ARE TWO DETAIL TYPES, "SEE DETAIL" MEANS NORMAL CONSTRUCTION DETAIL, SEE DETAIL MEANS SPECIFIC SKATE BOARD CONSTRUCTION DETAIL.



THE CITY OF LOS ANGELES
 DEPARTMENT OF RECREATION AND PARKS
 GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS
 PROJECT LANDSCAPE ARCHITECT: GONGYING PU
 PROJECT ENGINEER: ZHUYA HUANG
 LICENSE NO. 4882
 LICENSE NO. 4882
 DATE: _____



PROJECT NAME:
TRINITY SKATE PARK
 ADDRESS:
 2415 Trinity St, Los Angeles, CA 90011

REVISIONS:	DATE:
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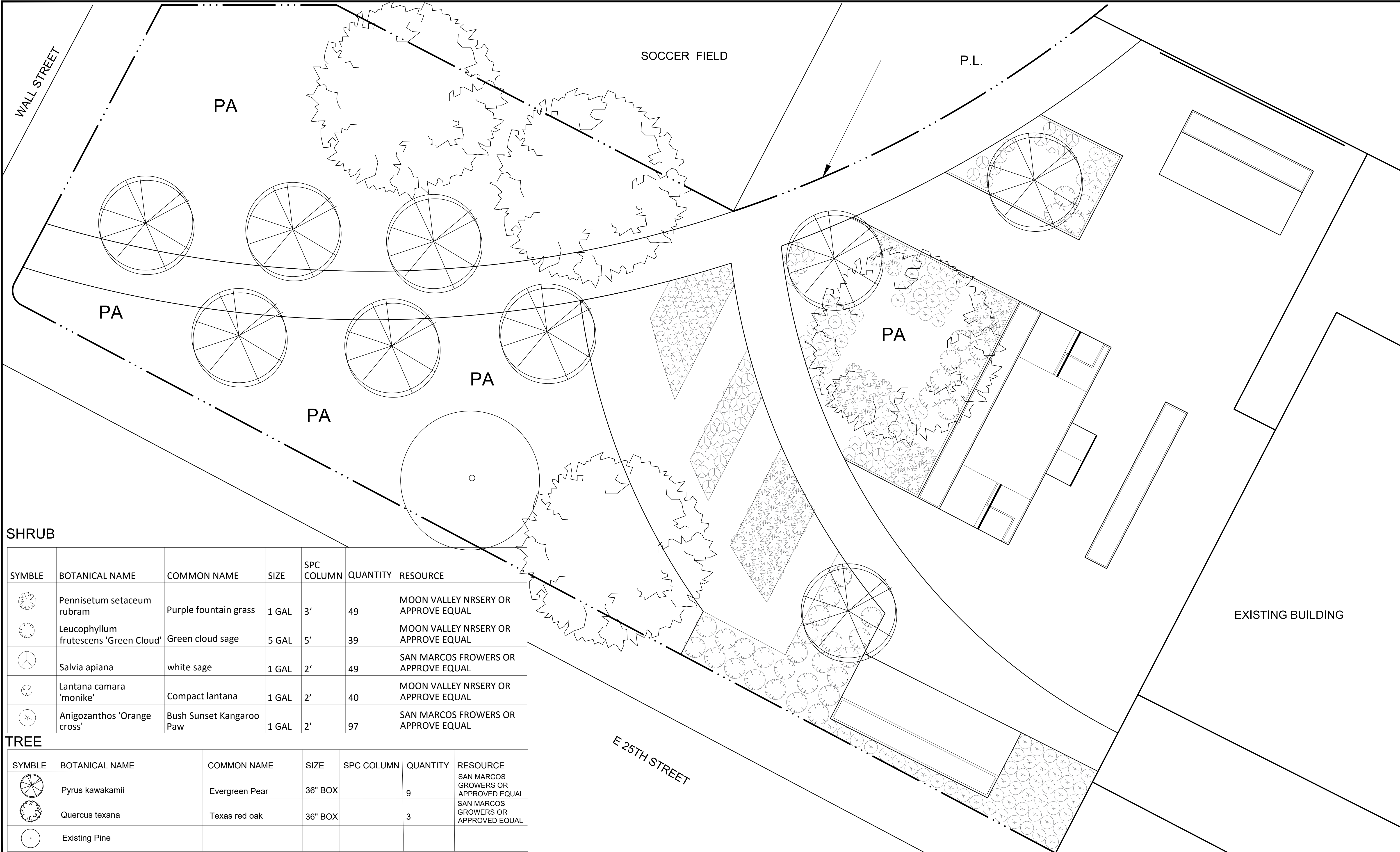
PLAN NAME:
GRADING PLAN

DRAWN BY:
 GONGYING PU
 ZHUYA HUANG
 SCALE:
 3/16"=1'-0"

APPROVED BY:
 C. Raines
 ISSUE DATE:
 PRJ # _____ FILE NO. _____
 DRAWING NO.
LS-04

SHEET OF SHEETS

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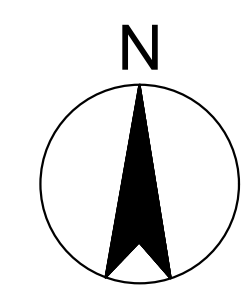
SHRUB

SYMBLE	BOTANICAL NAME	COMMON NAME	SIZE	SPC COLUMN	QUANTITY	RESOURCE
	<i>Pennisetum setaceum rubram</i>	Purple fountain grass	1 GAL	3'	49	MOON VALLEY NRSERY OR APPROVE EQUAL
	<i>Leucophyllum frutescens 'Green Cloud'</i>	Green cloud sage	5 GAL	5'	39	MOON VALLEY NRSERY OR APPROVE EQUAL
	<i>Salvia apiana</i>	white sage	1 GAL	2'	49	SAN MARCOS FROWERS OR APPROVE EQUAL
	<i>Lantana camara 'monike'</i>	Compact lantana	1 GAL	2'	40	MOON VALLEY NRSERY OR APPROVE EQUAL
	<i>Anigozanthos 'Orange cross'</i>	Bush Sunset Kangaroo Paw	1 GAL	2'	97	SAN MARCOS FROWERS OR APPROVE EQUAL

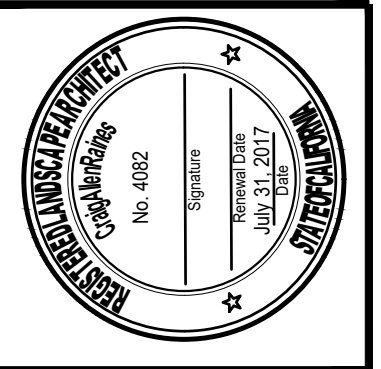
TREE

SYMBLE	BOTANICAL NAME	COMMON NAME	SIZE	SPC COLUMN	QUANTITY	RESOURCE
	<i>Pyrus kawakamii</i>	Evergreen Pear	36" BOX		9	SAN MARCOS GROWERS OR APPROVED EQUAL
	<i>Quercus texana</i>	Texas red oak	36" BOX		3	SAN MARCOS GROWERS OR APPROVED EQUAL
	Existing Pine					

NOTE:
LAYOUT OF ALL PROPOSED SITE ELEMENT WILL BE DONE UNDER THE SUPERVISION OF THE PROJECT LANDSCAPE ARCH IN RAP.



THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS
GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS
PROJECT LANDSCAPE ARCHITECT: GONGYING PU
PROJECT ENGINEER: ZHIHYA HUANG
SUBMIT TO DRAWING: DATE:



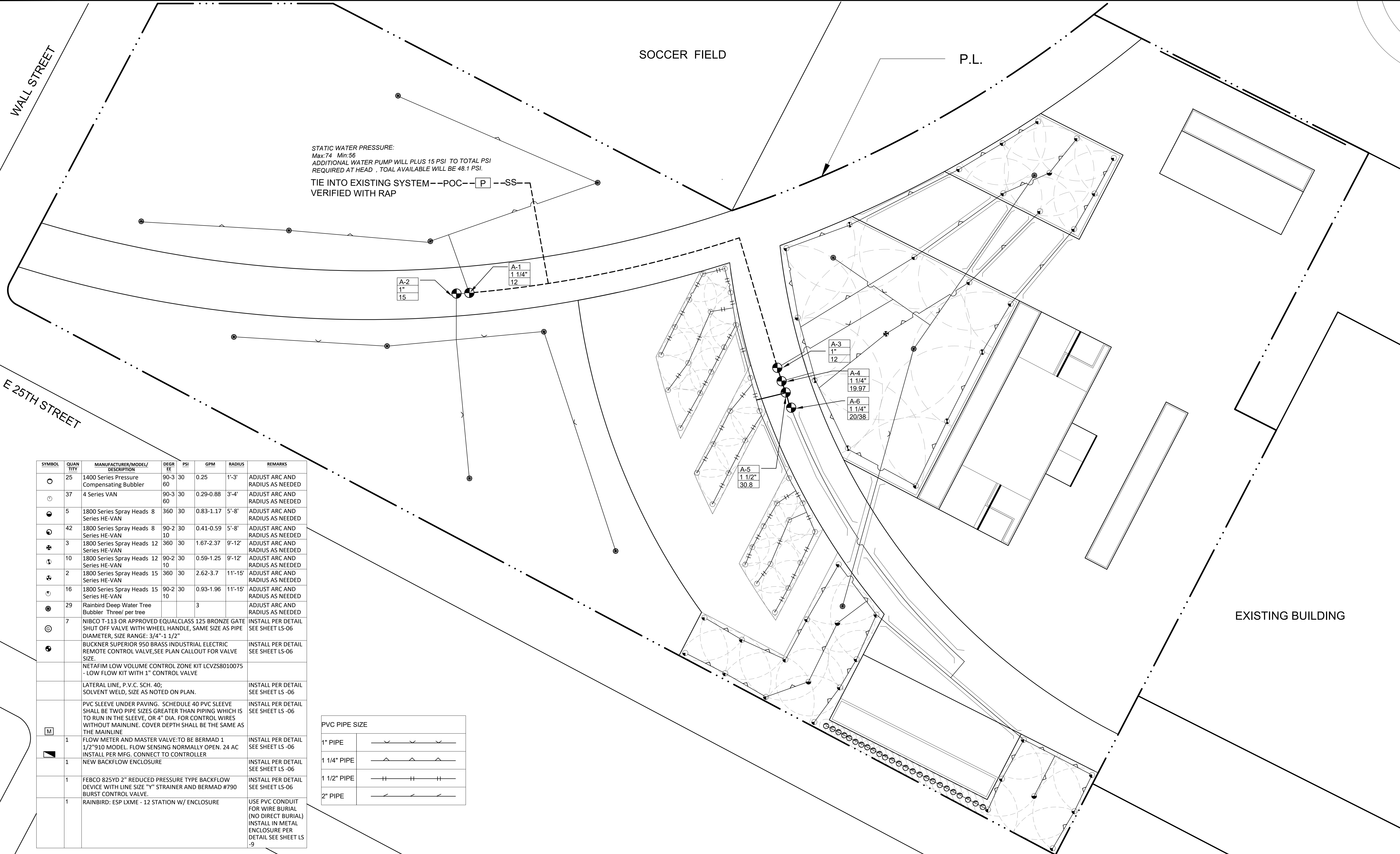
PROJECT NAME:
TRINITY SKATE PARK
ADDRESS:
2415 Trinity St, Los Angeles, CA 90011

REVISIONS:	DATE:

PLAN NAME:
PLANTING PLAN

DRAWN BY: GONGYING PU
ZHIHYA HUANG
SCALE: 3/16"=1'-0"
PRJ # FILE NO.
APPROVED BY: C. Raines
ISSUE DATE:
DRAWING NO. LS-05
SHEET OF SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THE PLAN SHEET.



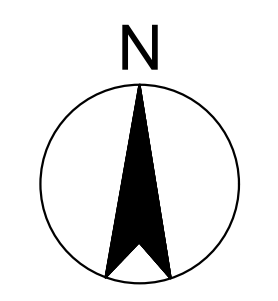
STATIC WATER PRESSURE:
 Max:74 Min:56
 ADDITIONAL WATER PUMP WILL PLUS 15 PSI TO TOTAL PSI
 REQUIRED AT HEAD , TOAL AVAILABLE WILL BE 48.1 PSI.
 TIE INTO EXISTING SYSTEM--POC--P--SS
 VERIFIED WITH RAP

SYMBOL	QUANTITY	MANUFACTURER/MODEL/DESCRIPTION	DEGREE	PSI	GPM	RADIUS	REMARKS
○	25	1400 Series Pressure Compensating Bubbler	90-3	30	0.25	1'-3"	ADJUST ARC AND RADIUS AS NEEDED
○	37	4 Series VAN	90-3	30	0.29-0.88	3'-4"	ADJUST ARC AND RADIUS AS NEEDED
●	5	1800 Series Spray Heads 8 Series HE-VAN	360	30	0.83-1.17	5'-8"	ADJUST ARC AND RADIUS AS NEEDED
●	42	1800 Series Spray Heads 8 Series HE-VAN	90-2	30	0.41-0.59	5'-8"	ADJUST ARC AND RADIUS AS NEEDED
●	3	1800 Series Spray Heads 12 Series HE-VAN	360	30	1.67-2.37	9'-12"	ADJUST ARC AND RADIUS AS NEEDED
●	10	1800 Series Spray Heads 12 Series HE-VAN	90-2	30	0.59-1.25	9'-12"	ADJUST ARC AND RADIUS AS NEEDED
●	2	1800 Series Spray Heads 15 Series HE-VAN	360	30	2.62-3.7	11'-15"	ADJUST ARC AND RADIUS AS NEEDED
●	16	1800 Series Spray Heads 15 Series HE-VAN	90-2	30	0.93-1.96	11'-15"	ADJUST ARC AND RADIUS AS NEEDED
●	29	Rainbird Deep Water Tree Bubbler Three/ per tree			3		ADJUST ARC AND RADIUS AS NEEDED
◎	7	NIBCO T-113 OR APPROVED EQUAL CLASS 125 BRONZE GATE SHUT OFF VALVE WITH WHEEL HANDLE, SAME SIZE AS PIPE DIAMETER, SIZE RANGE: 3/4"-1 1/2"					INSTALL PER DETAIL SEE SHEET LS-06
●		BUCKNER SUPERIOR 950 BRASS INDUSTRIAL ELECTRIC REMOTE CONTROL VALVE,SEE PLAN CALLOUT FOR VALVE SIZE.					INSTALL PER DETAIL SEE SHEET LS-06
		NETAFIM LOW VOLUME CONTROL ZONE KIT LCV2S8010075 - LOW FLOW KIT WITH 1" CONTROL VALVE					
		LATERAL LINE, P.V.C. SCH. 40; SOLVENT WELD, SIZE AS NOTED ON PLAN.					INSTALL PER DETAIL SEE SHEET LS-06
		PVC SLEEVE UNDER PAVING. SCHEDULE 40 PVC SLEEVE SHALL BE TWO PIPE SIZES GREATER THAN PIPING WHICH IS TO RUN IN THE SLEEVE. OR 4" DIA. FOR CONTROL WIRES WITHOUT MAINLINE. COVER DEPTH SHALL BE THE SAME AS THE MAINLINE					INSTALL PER DETAIL SEE SHEET LS-06
M	1	FLOW METER AND MASTER VALVE:TO BE BERMAD 1 1/2"910 MODEL. FLOW SENSING NORMALLY OPEN. 24 AC INSTALL PER MFG. CONNECT TO CONTROLLER					INSTALL PER DETAIL SEE SHEET LS-06
■	1	NEW BACKFLOW ENCLOSURE					INSTALL PER DETAIL SEE SHEET LS-06
	1	FEBCO 825YD 2" REDUCED PRESSURE TYPE BACKFLOW DEVICE WITH LINE SIZE "Y" STRAINER AND BERMAD #790 BURST CONTROL VALVE.					INSTALL PER DETAIL SEE SHEET LS-06
	1	RAINBIRD: ESP LXME - 12 STATION W/ ENCLOSURE					USE PVC CONDUIT FOR WIRE BURIAL (NO DIRECT BURIAL) INSTALL IN METAL ENCLOSURE PER DETAIL SEE SHEET LS-9

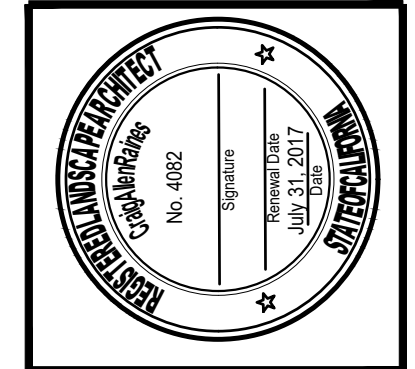
PVC PIPE SIZE

1" PIPE	— X — X — X —
1 1/4" PIPE	— X — X — X —
1 1/2" PIPE	— H — H — H —
2" PIPE	— X — X — X —

NOTE:
 1.LAYOUT OF ALL PROPOSED SITE ELEMENT WILL BE DONE UNDER THE SUPERVISION OF THE PROJECT LANDSCAPE ARCH IN RAP.
 2.ADDITIONAL WATER PUMP WILL PLUS 15 PSI TO TOTAL PSI REQUIRED AT HEAD , TOAL AVAILABLE WILL BE 48.1 PSI.



THE CITY OF LOS ANGELES
 DEPARTMENT OF RECREATION AND PARKS
 GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS
 PROJECT LANDSCAPE ARCHITECT: GONGYING
 PROJECT ENGINEER: ZHUYA HUANG
 SUBJECT TO DRAWING: DATE:



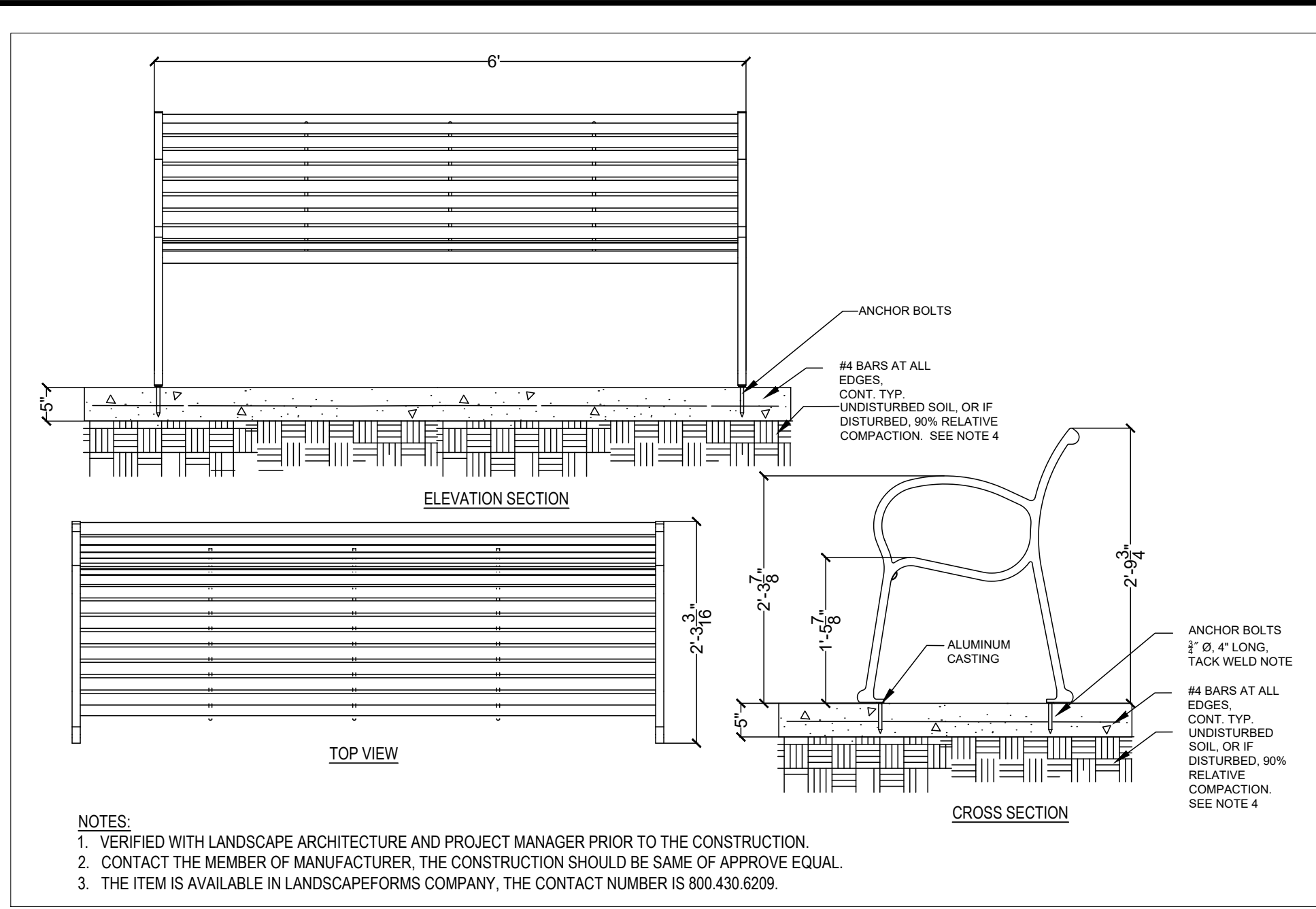
PROJECT NAME:
TRINITY SKATE PARK
 ADDRESS:
2415 Trinity St, Los Angeles, CA 90011

REVISIONS: DATE:

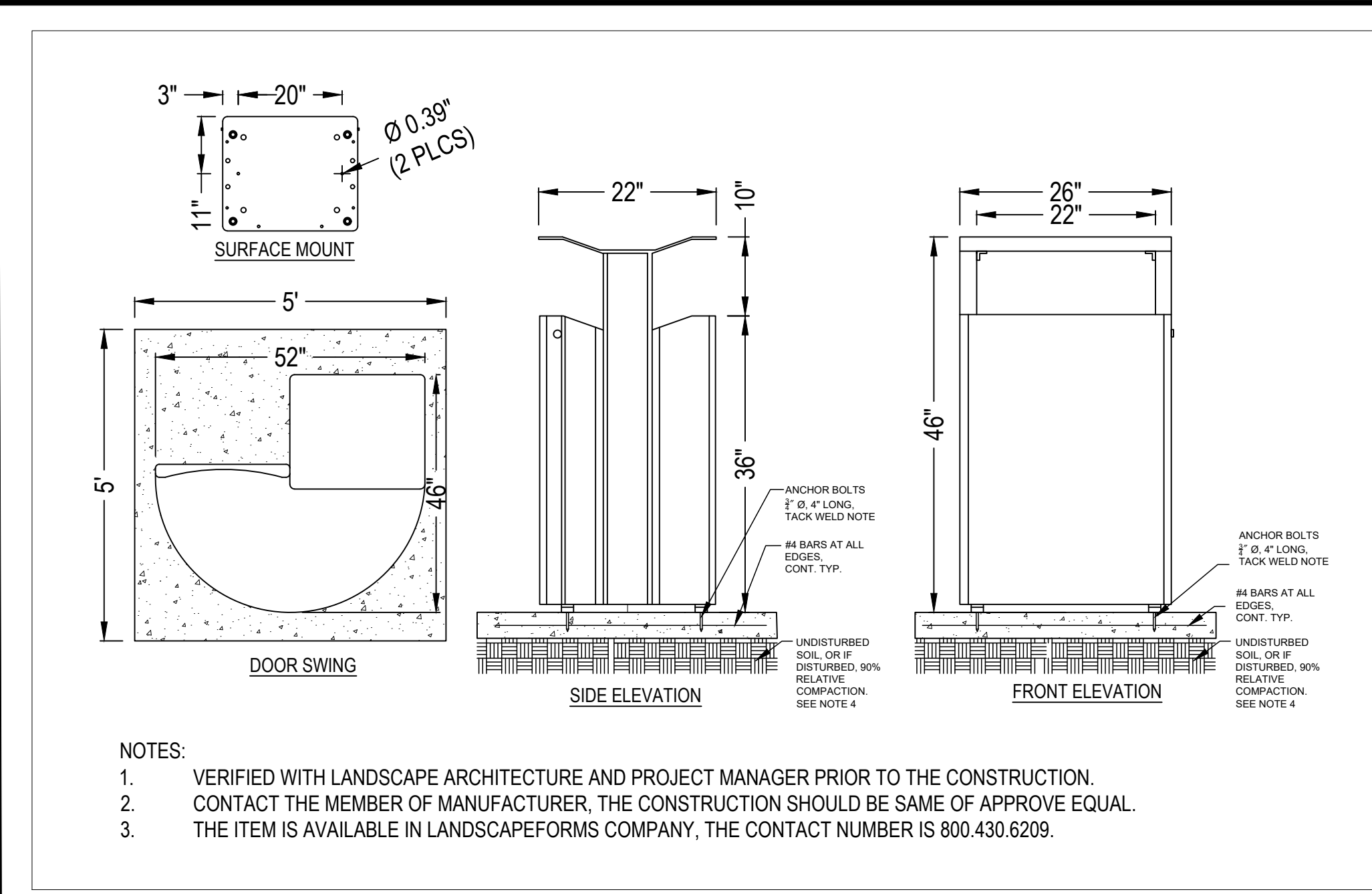
PLAN NAME:
IRRIGATION PLAN

DRAWN BY:
 GONGYING PU
 ZHUYA HUANG
 SCALE:
 3/16"=1'-0"
 PRJ # FILE NO.
 DRAWING NO.
LS-06
 SHEET OF SHEETS

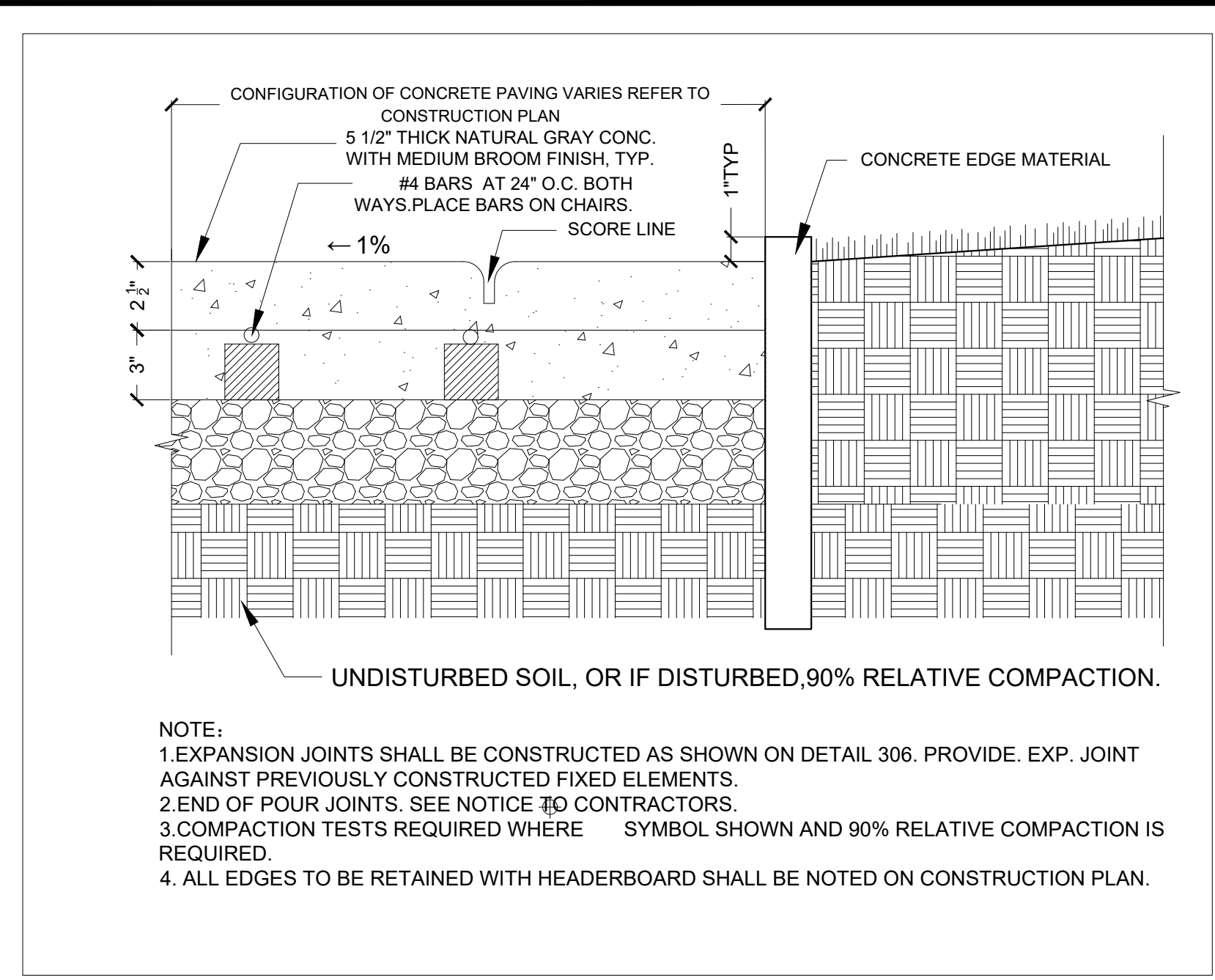
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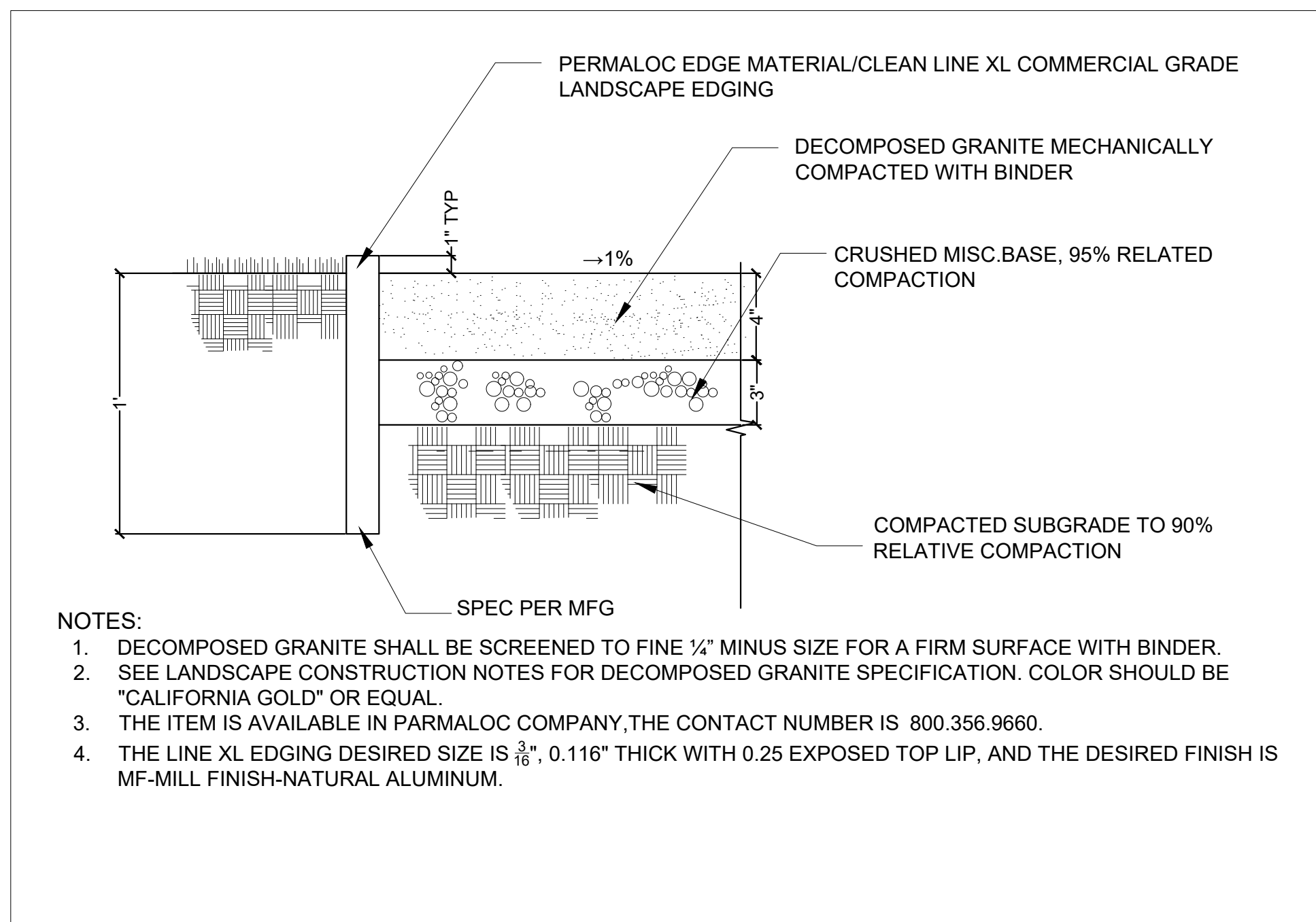
1-1 SCARBOROUGH BENCH 72IN WITHOUT CENTER ARM, COLOR: GREEN 3/4"=1'-0"



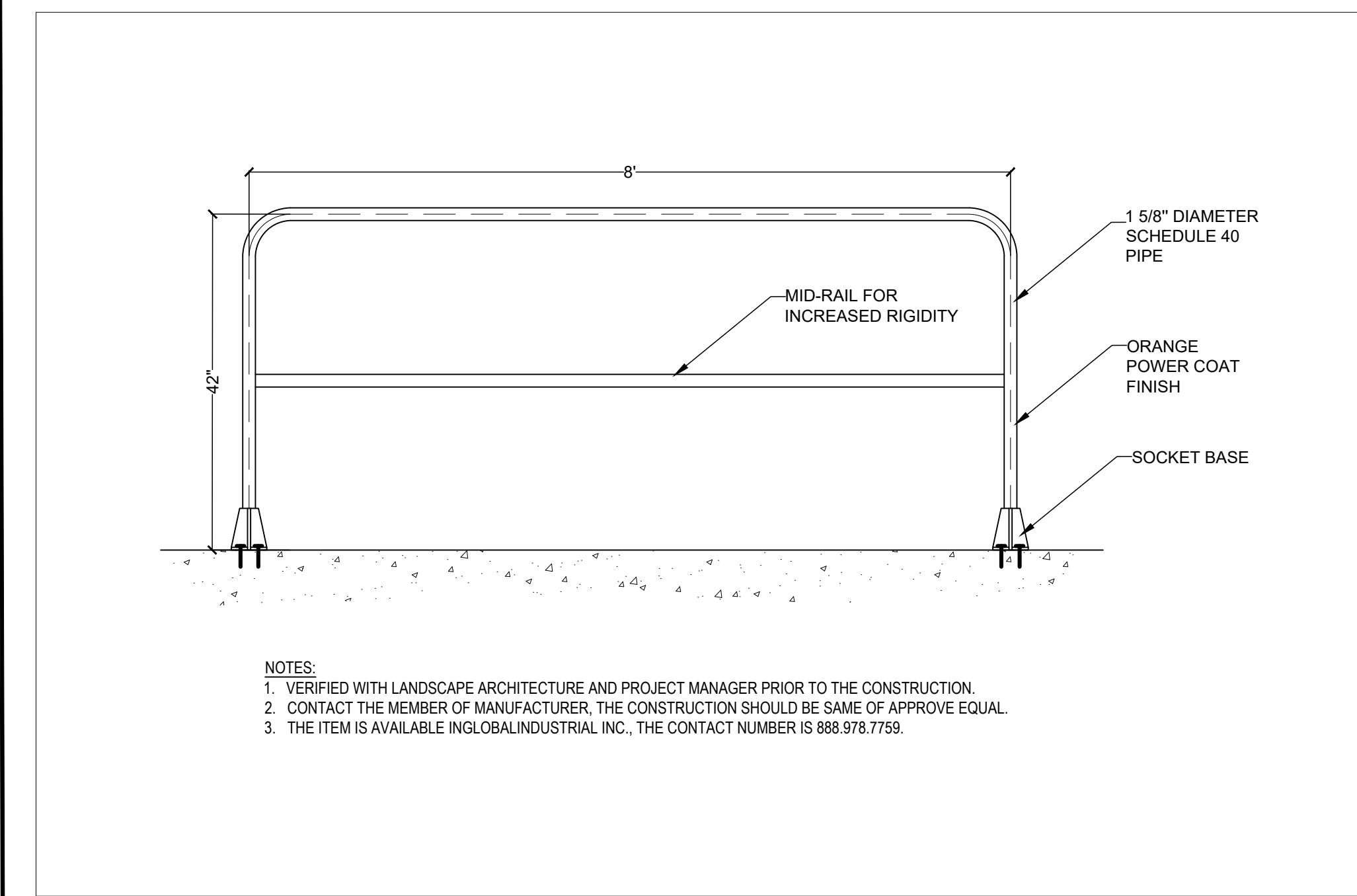
2-1 AIRI 45 GAL TRASH RECEPTACLE WITH SIDE DOOR, CURVE TOP, COLOR: GREEN 3/4" = 1'-0"



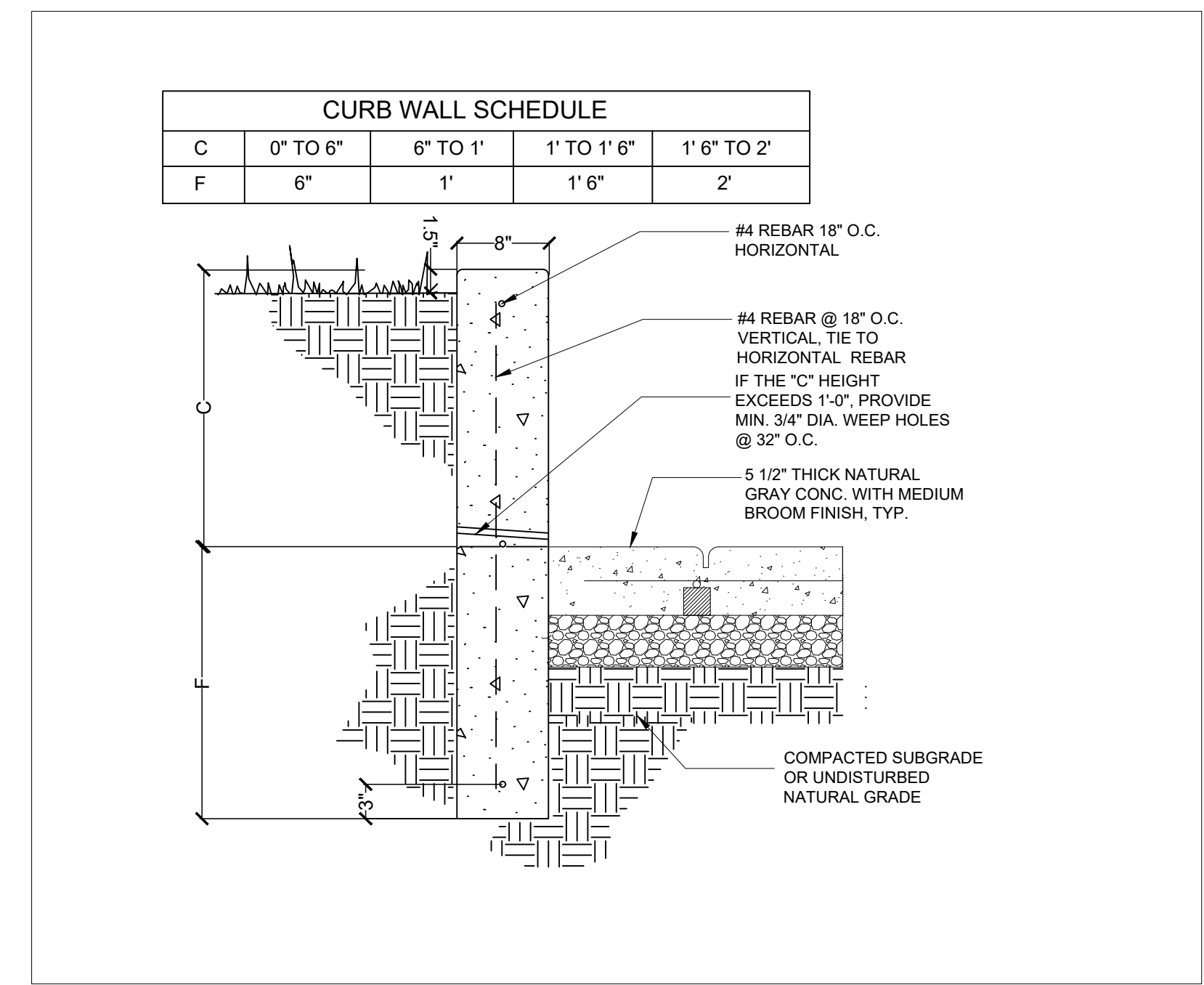
3-1 CONCRETE PAVING & PLANTING AREA 2" = 1'-0"



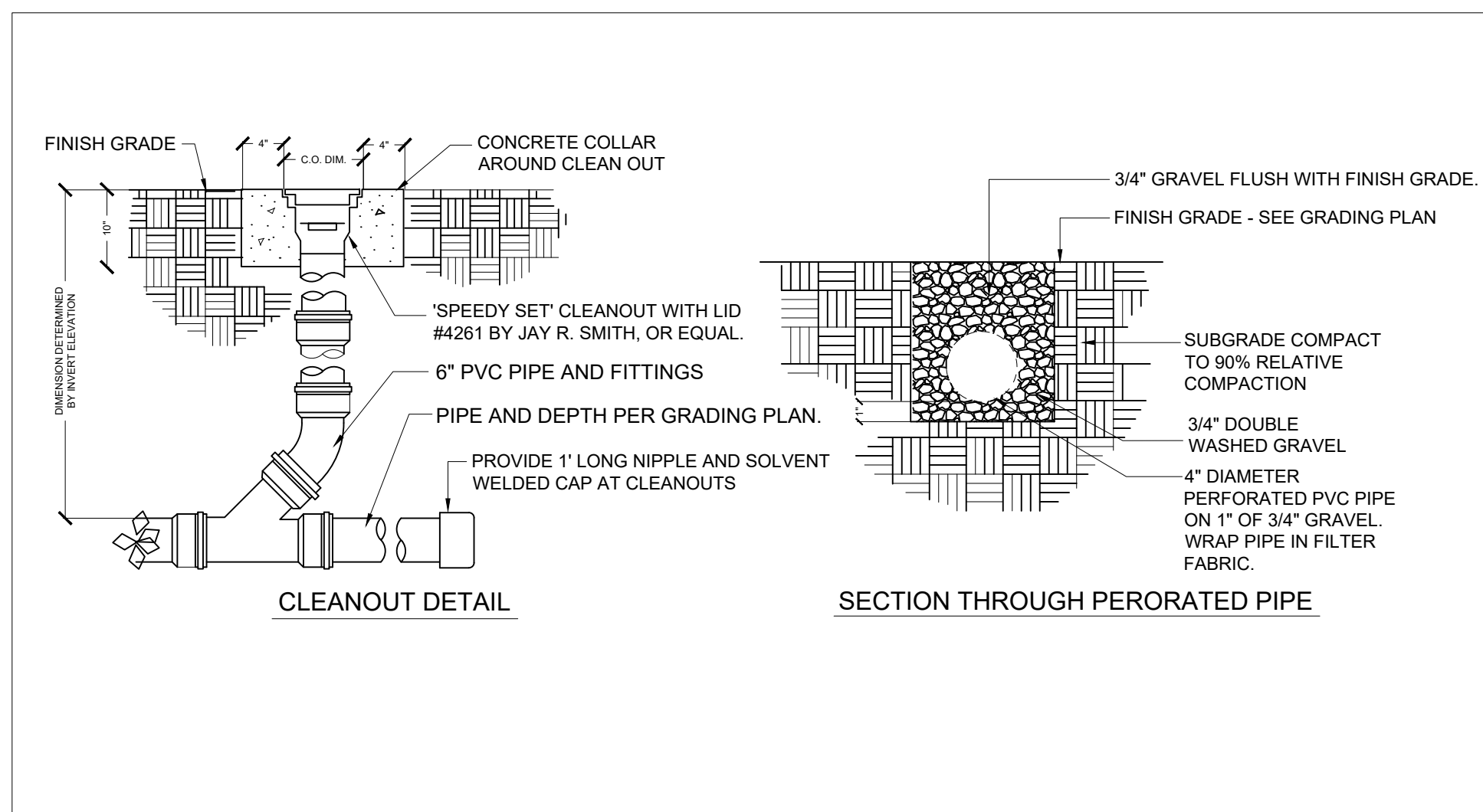
4-1 DG PAVING ADJACENT TO PLANTING AREA 3/4"=1'-0"



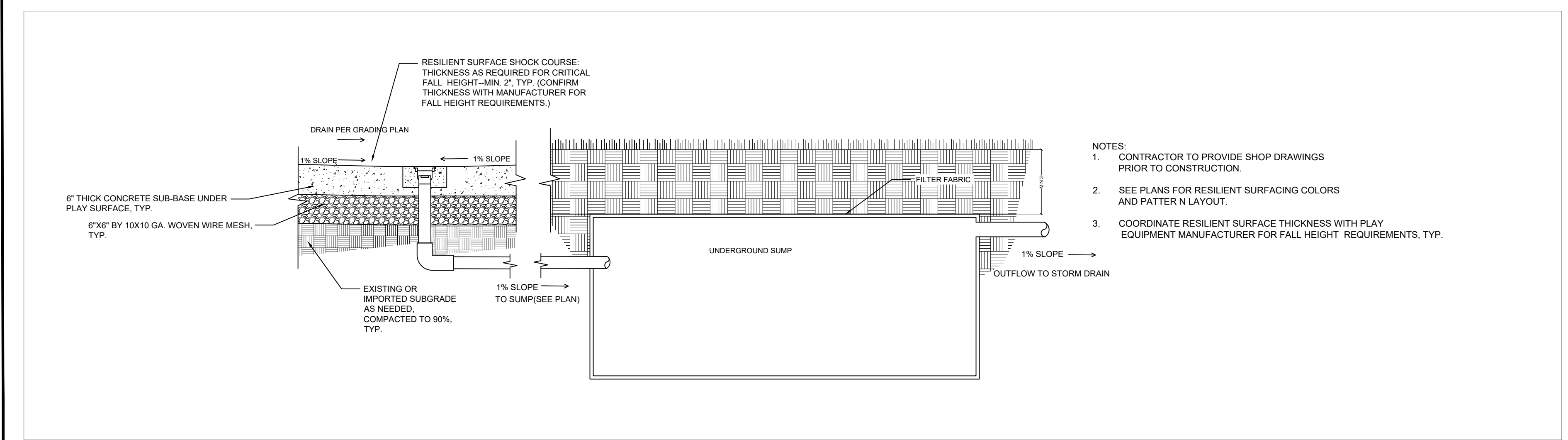
5-1 96" L SAFETY RAILING # T9F940373 3/4"=1'-0"



6-1 CONCRETE CURB WALL 1" = 1'-0"



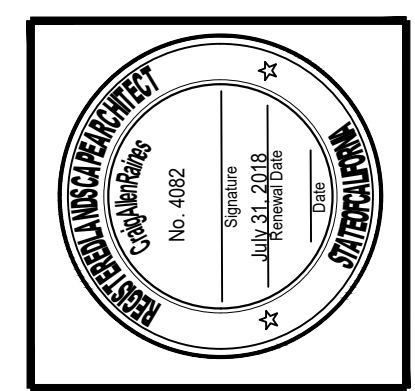
7-1 DRAIN LINE INSTALLATION AND CLEAN OUT 1"=1'-0"



8-1 SUMP UNDER SKATEBOARD PARK 1/2" = 1'-0"



THE CITY OF LOS ANGELES
 DEPARTMENT OF RECREATION AND PARKS
 GENERAL MANAGER: Michael Shull
 ASSISTANT GEN. MANAGER: Ramon Barales
 PROJECT LANDSCAPE ARCHITECT: CHINE RAMIREZ
 PROJECT ENGINEER:
 AS BUILT DRAWN BY:



PROJECT NAME:
TRINITY SKATE PARK
 ADDRESS:
 2415 Trinity St.
 Los Angeles, CA 90011

REVISIONS:	DATE:

PLAN NAME:
DETAIL ONE

DRAWN BY:
 Thya Huong
 Gongying Pu

APPROVED BY:
 C. Eanes

SCALE:
 NTS

ISSUE DATE:
 NTS

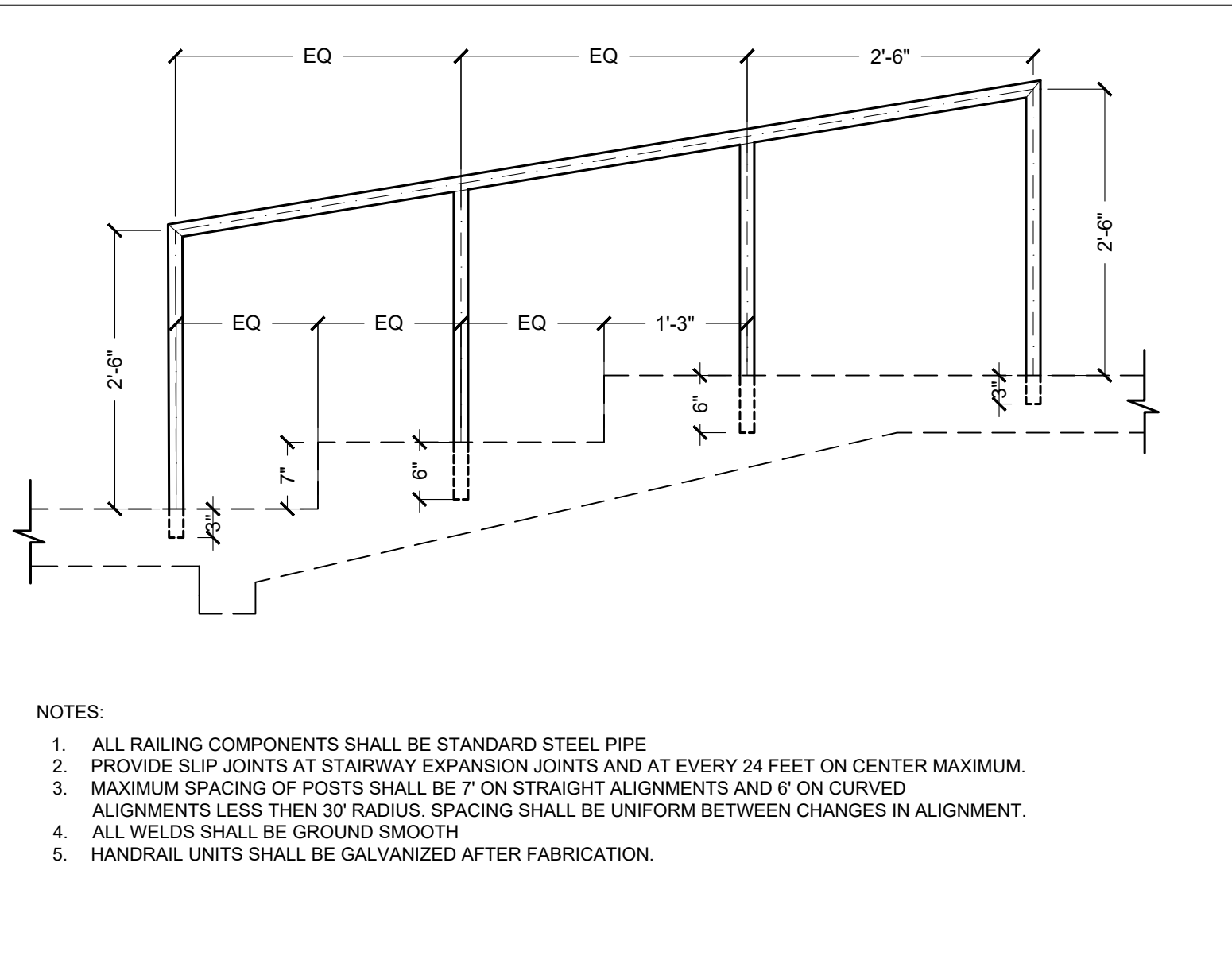
PRJ #

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LS-07

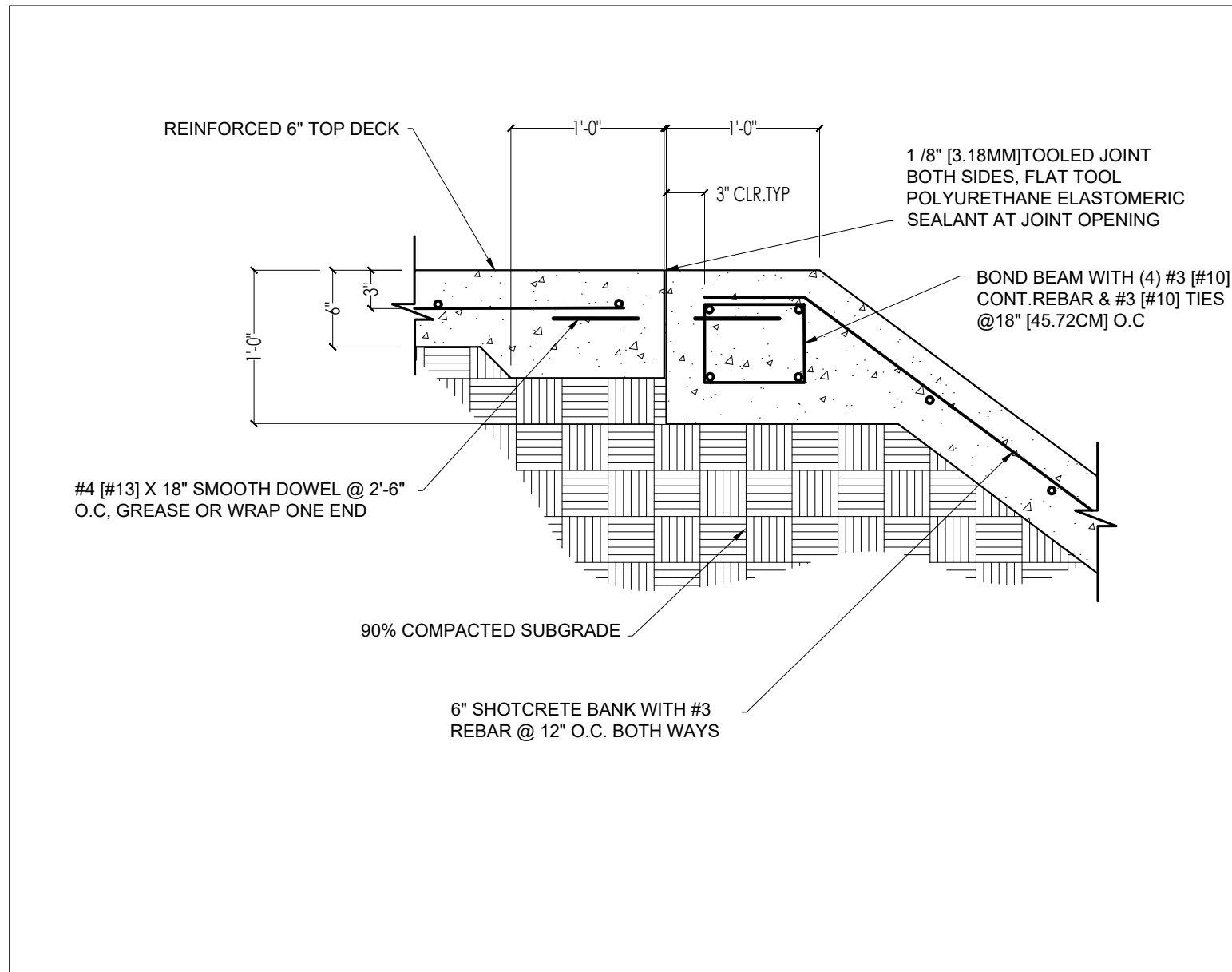
SHEET 12 OF 16 SHEETS

THE CITY OF LOS ANGELES OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

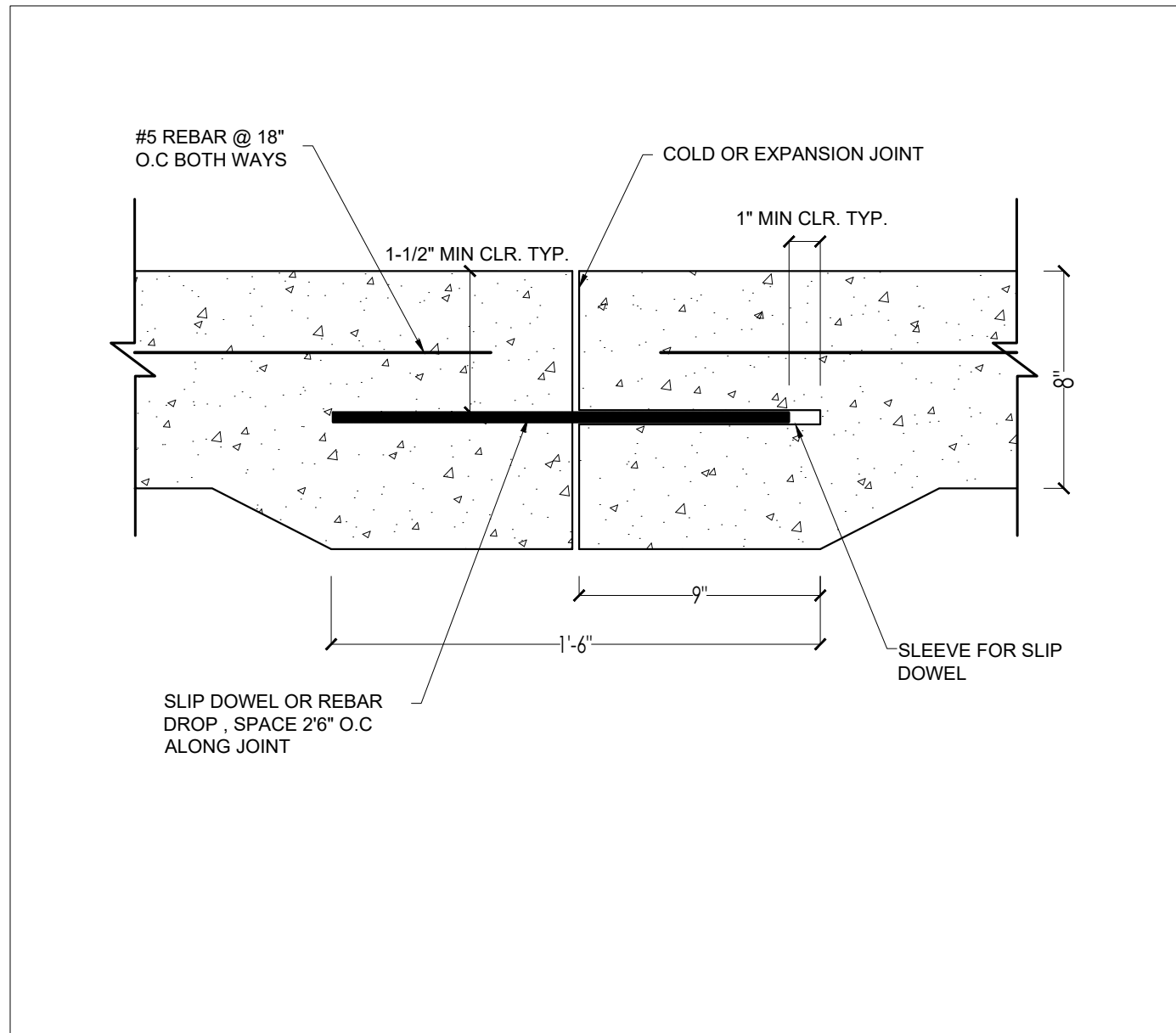


9-1 HANDRAIL INSTALLATION ON STAIRWAYS 3/4"=1'-0"

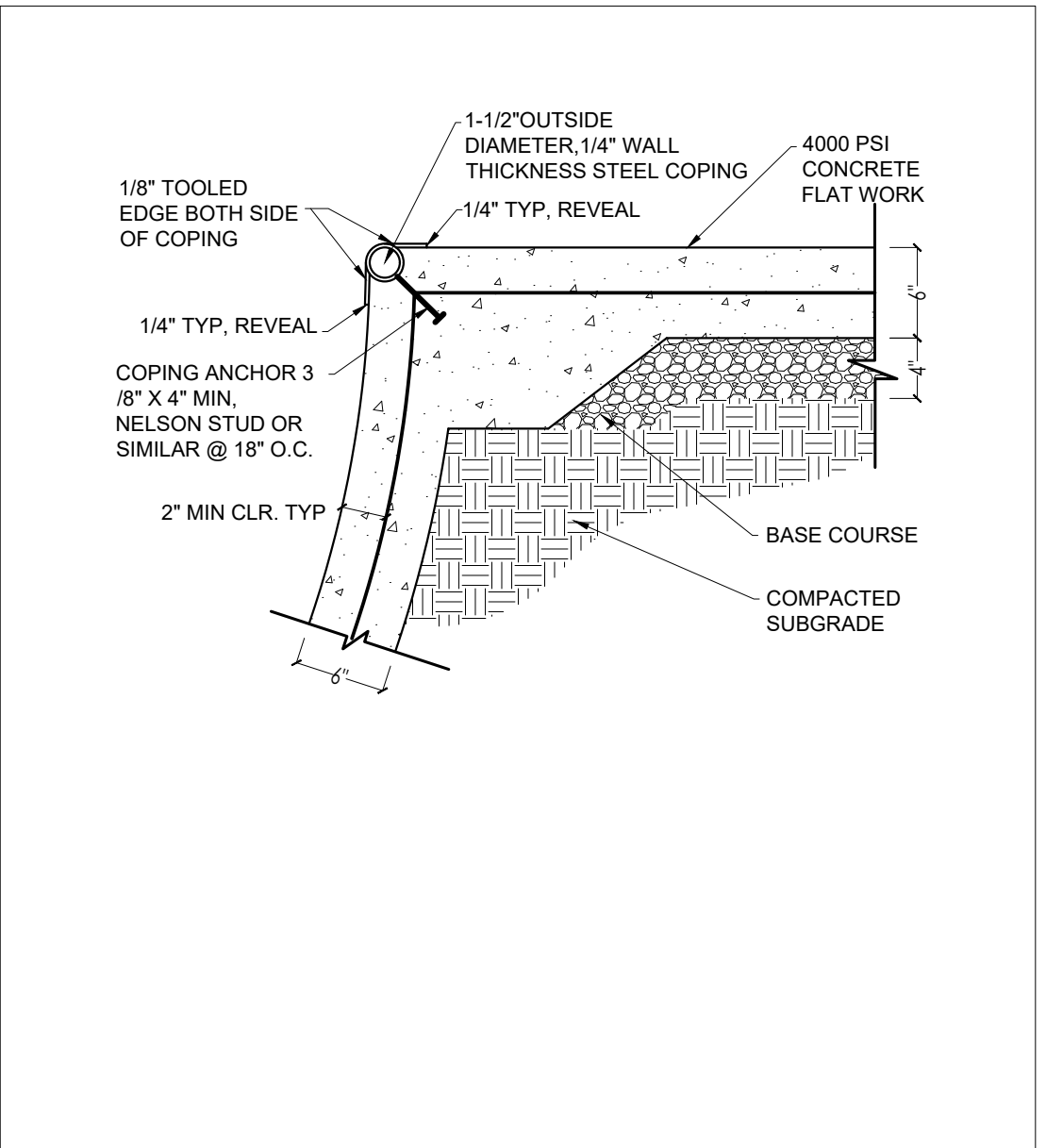
- NOTES:
1. ALL RAILING COMPONENTS SHALL BE STANDARD STEEL PIPE.
 2. PROVIDE SLIP JOINTS AT STAIRWAY EXPANSION JOINTS AND AT EVERY 24 FEET ON CENTER MAXIMUM.
 3. MAXIMUM SPACING OF POSTS SHALL BE 7' ON STRAIGHT ALIGNMENTS AND 6' ON CURVED ALIGNMENTS LESS THAN 30' RADIUS. SPACING SHALL BE UNIFORM BETWEEN CHANGES IN ALIGNMENT.
 4. ALL WELDS SHALL BE GRIND SMOOTH.
 5. HANDRAIL UNITS SHALL BE GALVANIZED AFTER FABRICATION.



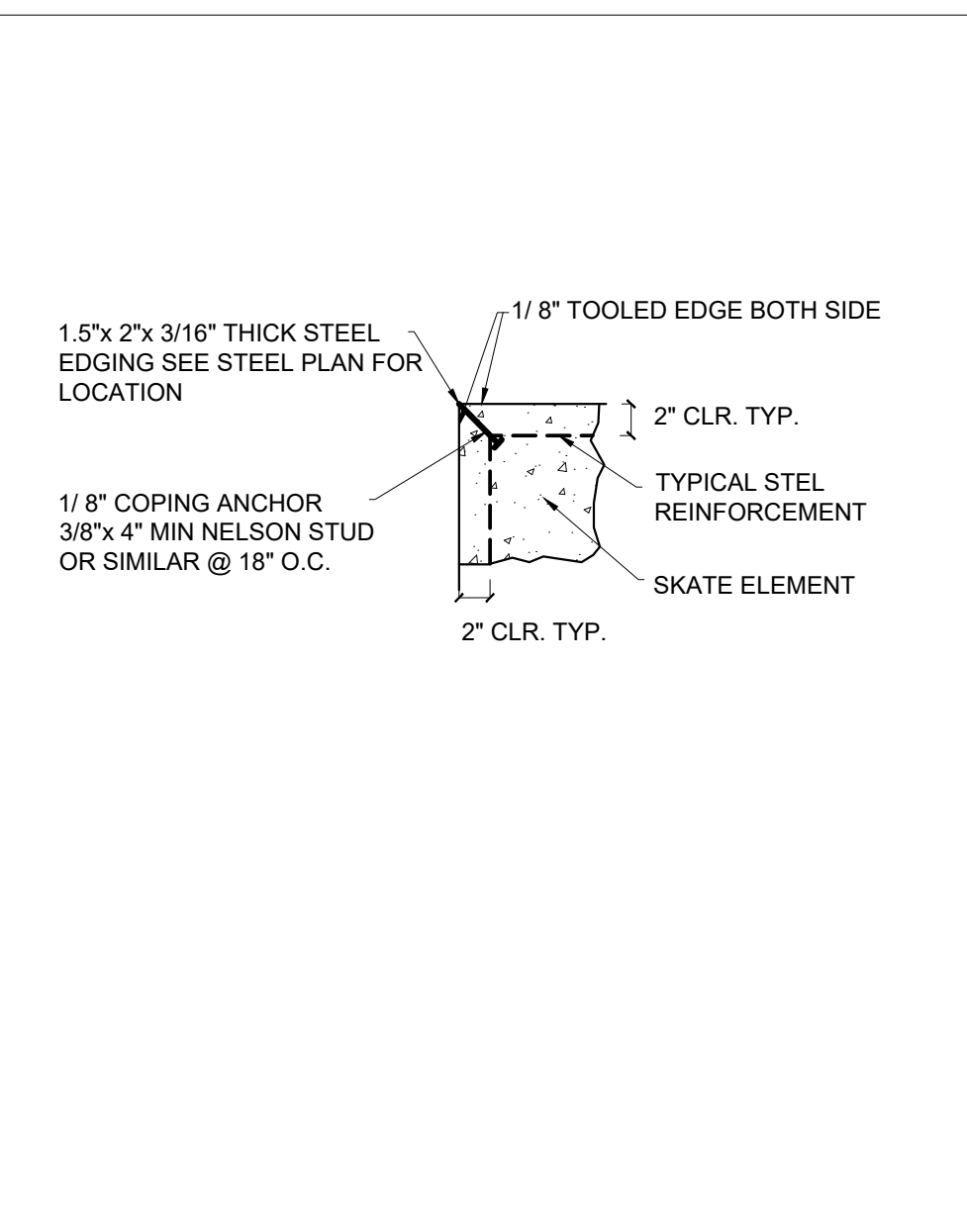
9-2 TYPICAL BANK/RAMP BOND BEAM 1"=1'-0"



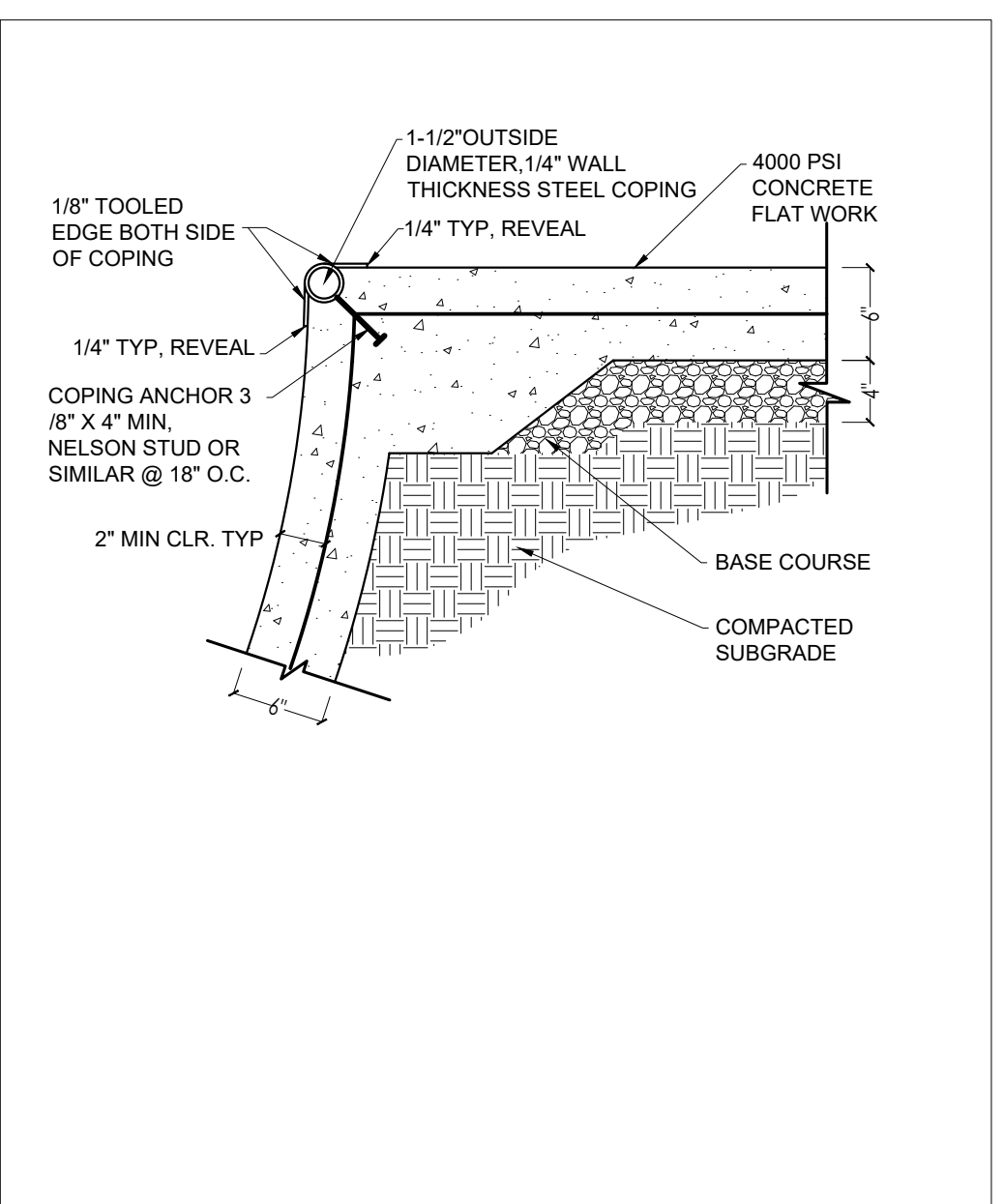
9-3 SLIP DOWEL 2"=1'-0"



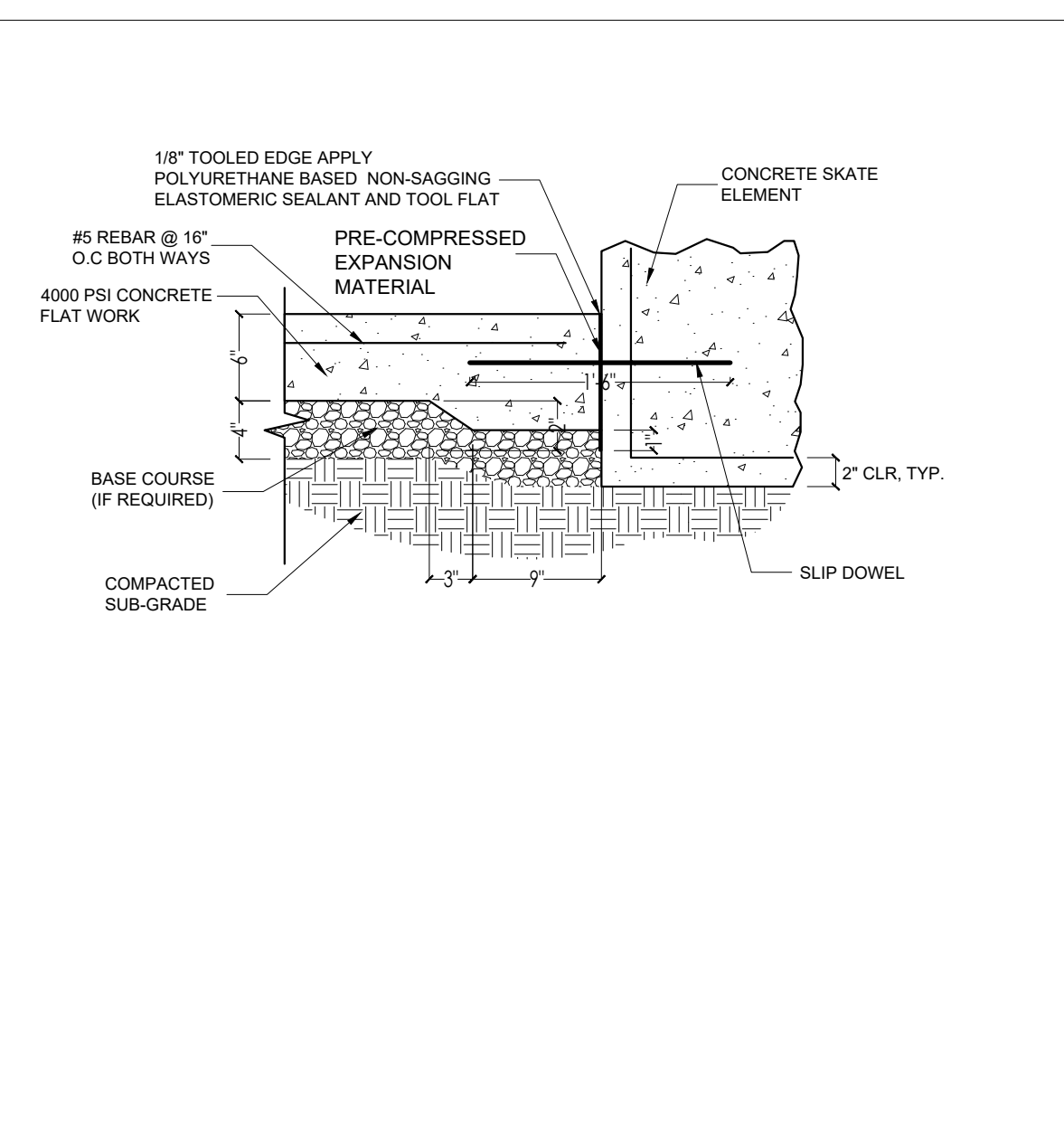
9-2 STEEL COPING - ROUND 1"=1'-0"



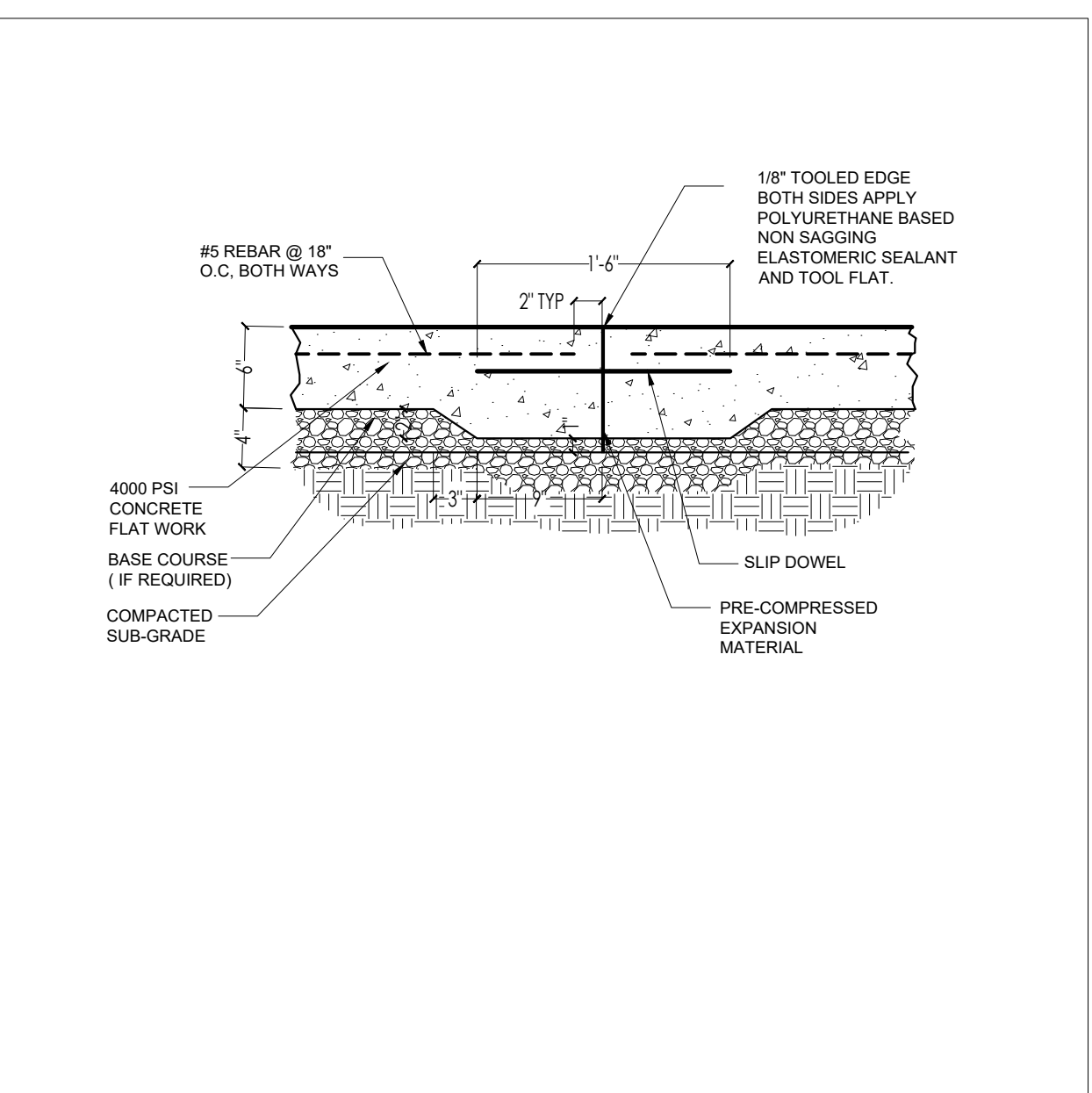
9-5 STEEL EDGING 1"=1'-0"



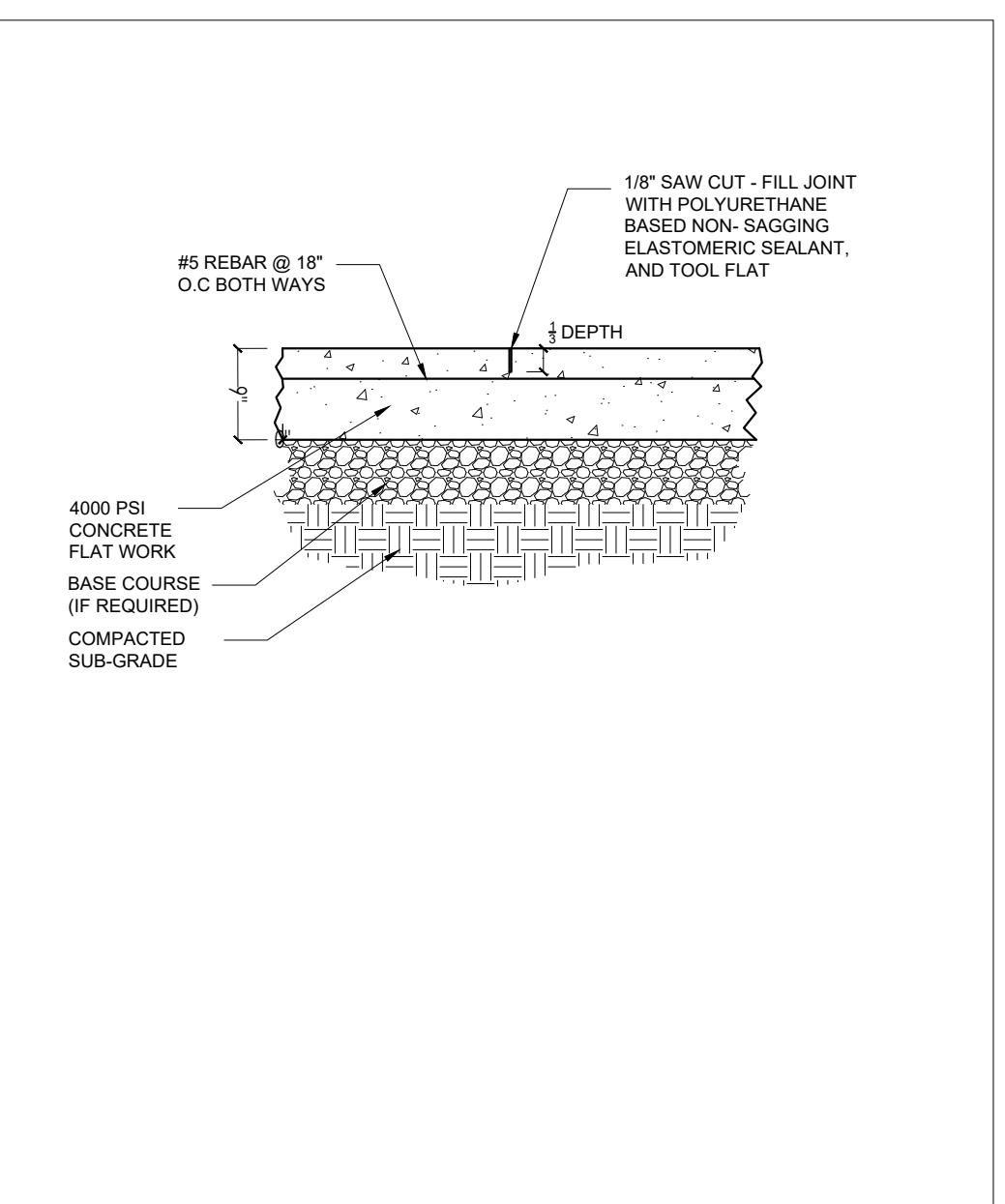
9-6 STEEL COPING - ROUND 1"=1'-0"



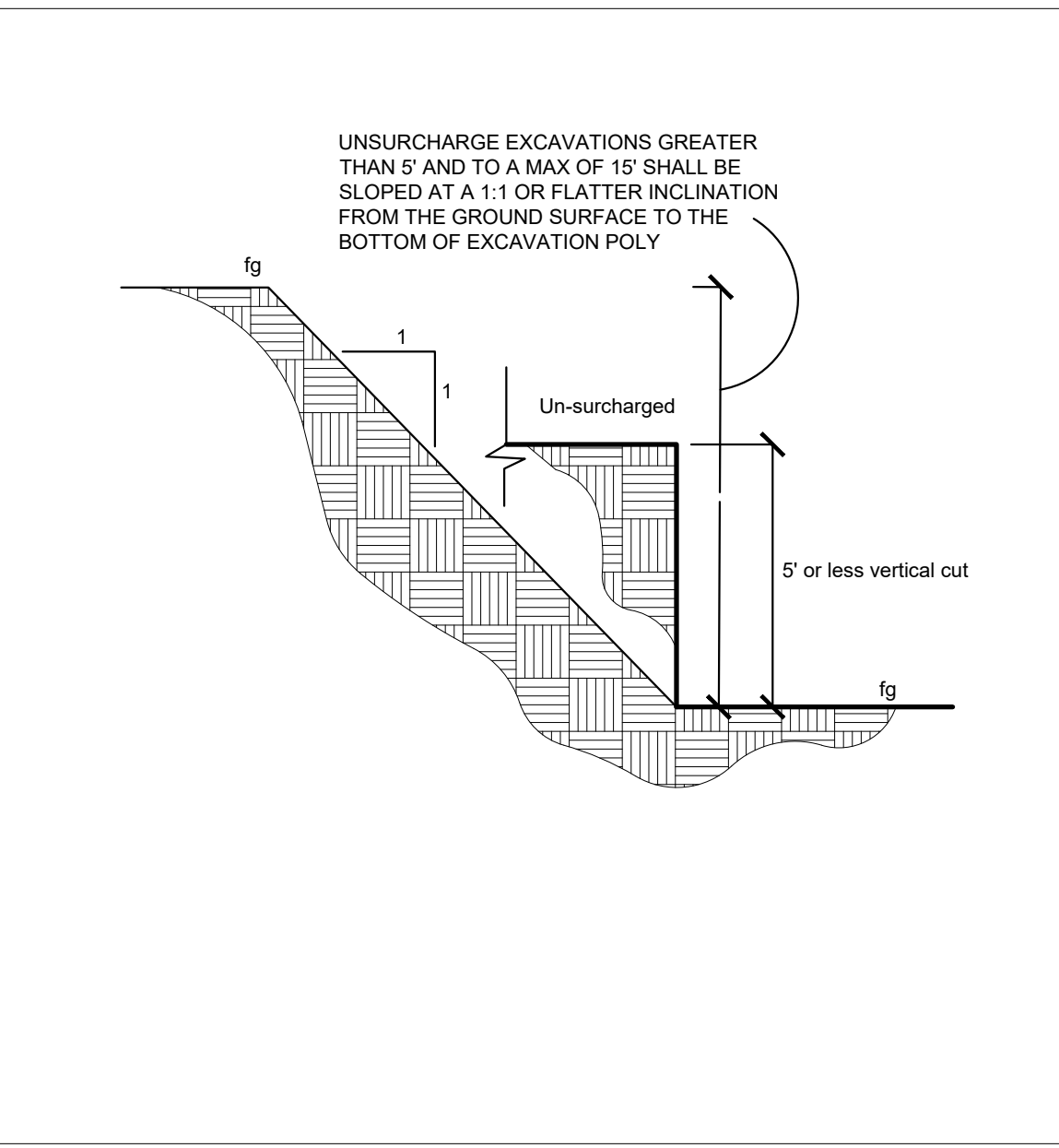
9-7 EXPANSION JOINT 1"=1'-0"



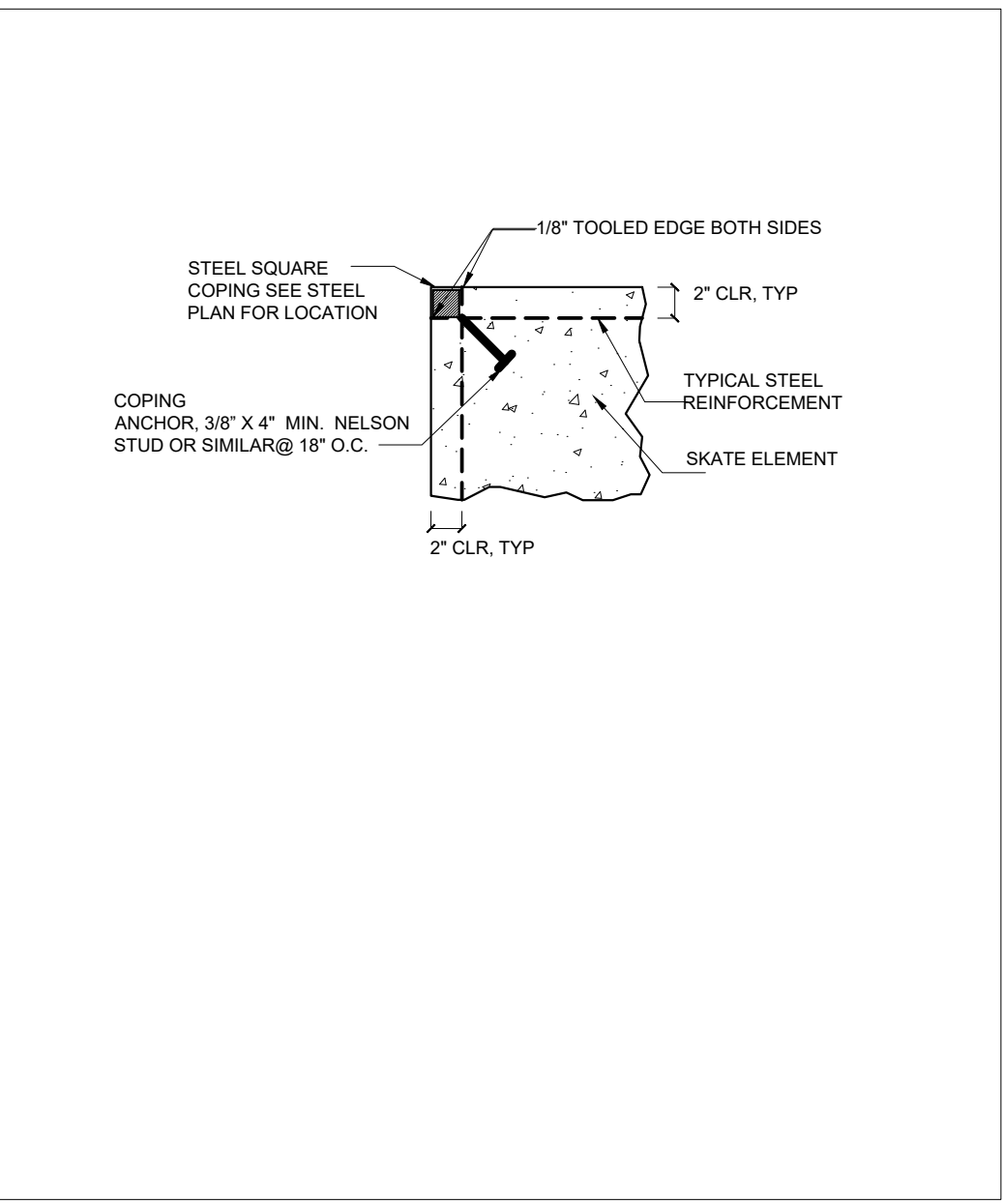
9-8 FLAT EXPANSION JOINT 1"=1'-0"



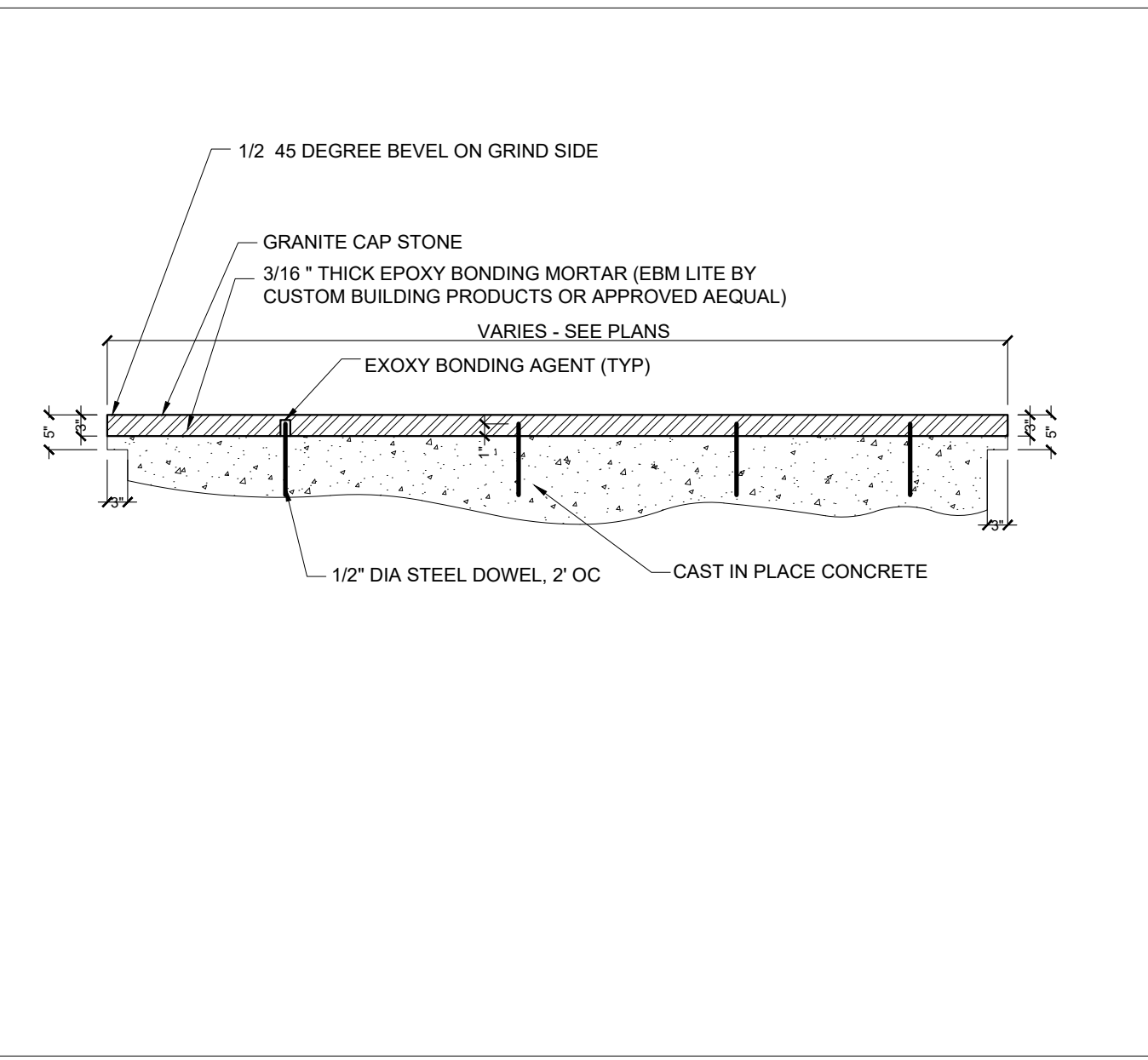
9-9 SAW CUT JOINT 1"=1'-0"



9-10 TEMP EXCAVATION (NO SURCHARGE) N.T.S



9-11 STEEL COPING - SQUARE 1"=1'-0"



9-12 GRANITE CAP STONE 1/2"=1'-0"

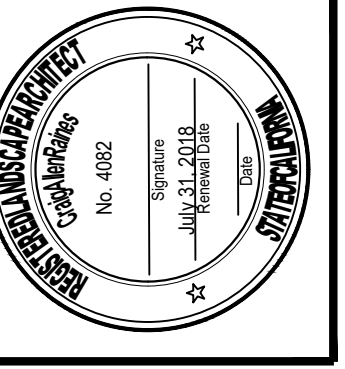


PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

ASSISTANT GEN. MANAGER: Ramon Barajas
GENERAL MANAGER: Michael Shull

PROJECT LANDSCAPE ARCHITECT: _____
PROJECT ENGINEER: _____
DATE: _____



PROJECT NAME: **TRINITY SKATE PARK**
ADDRESS: **2415 Trinity St, Los Angeles, CA 90011**

REVISIONS:	DATE:

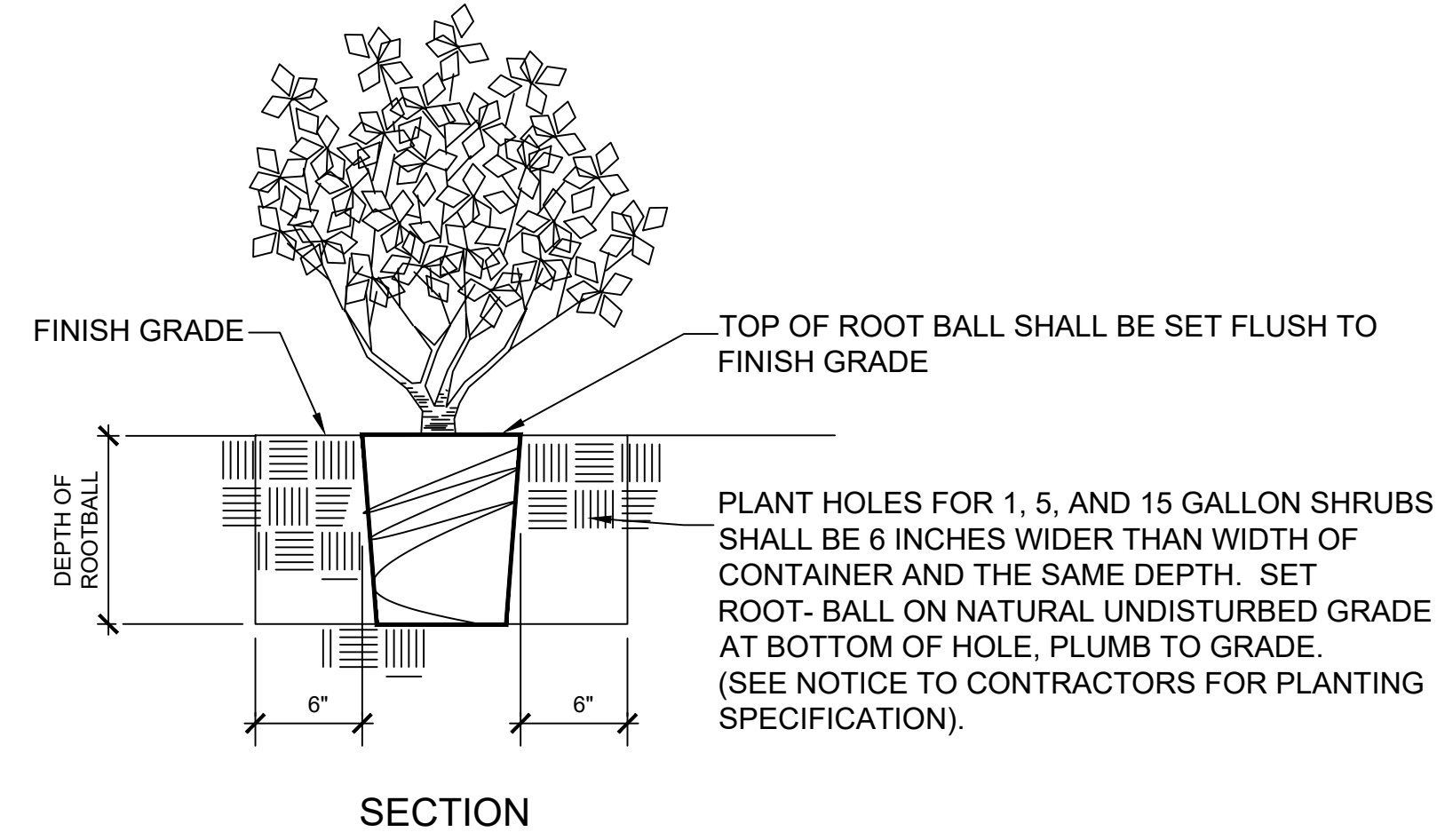
PLAN NAME:
DETAIL TWO SKATEBOARD AREA

DRAWN BY: Zhiya Huang
SCALE: nts
PRJ # _____

APPROVED BY: C. Raines
ISSUE DATE: _____
FILE NO. _____

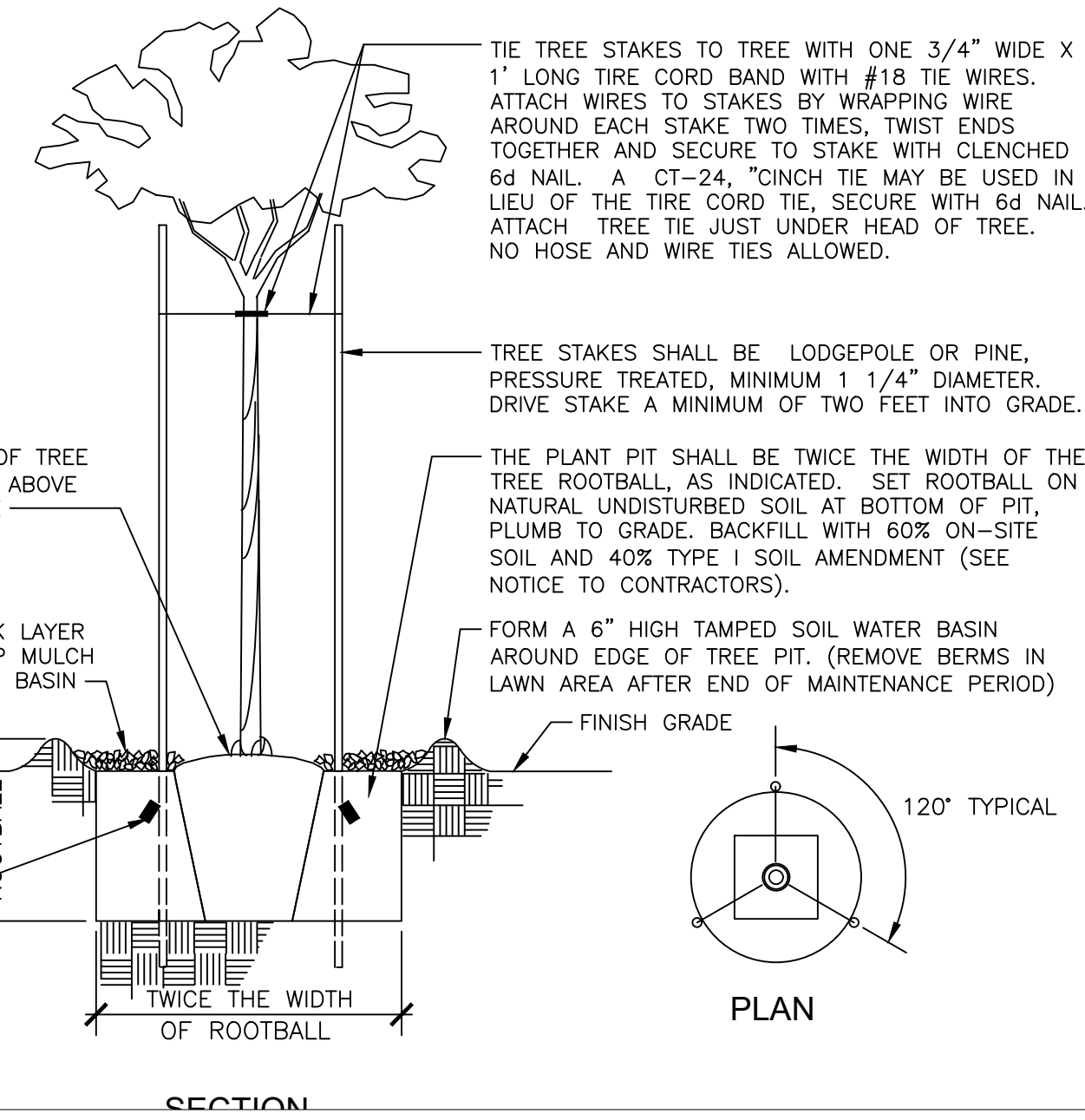
DRAWING NO.
LS-08
SHEET 13 OF 16 SHEETS

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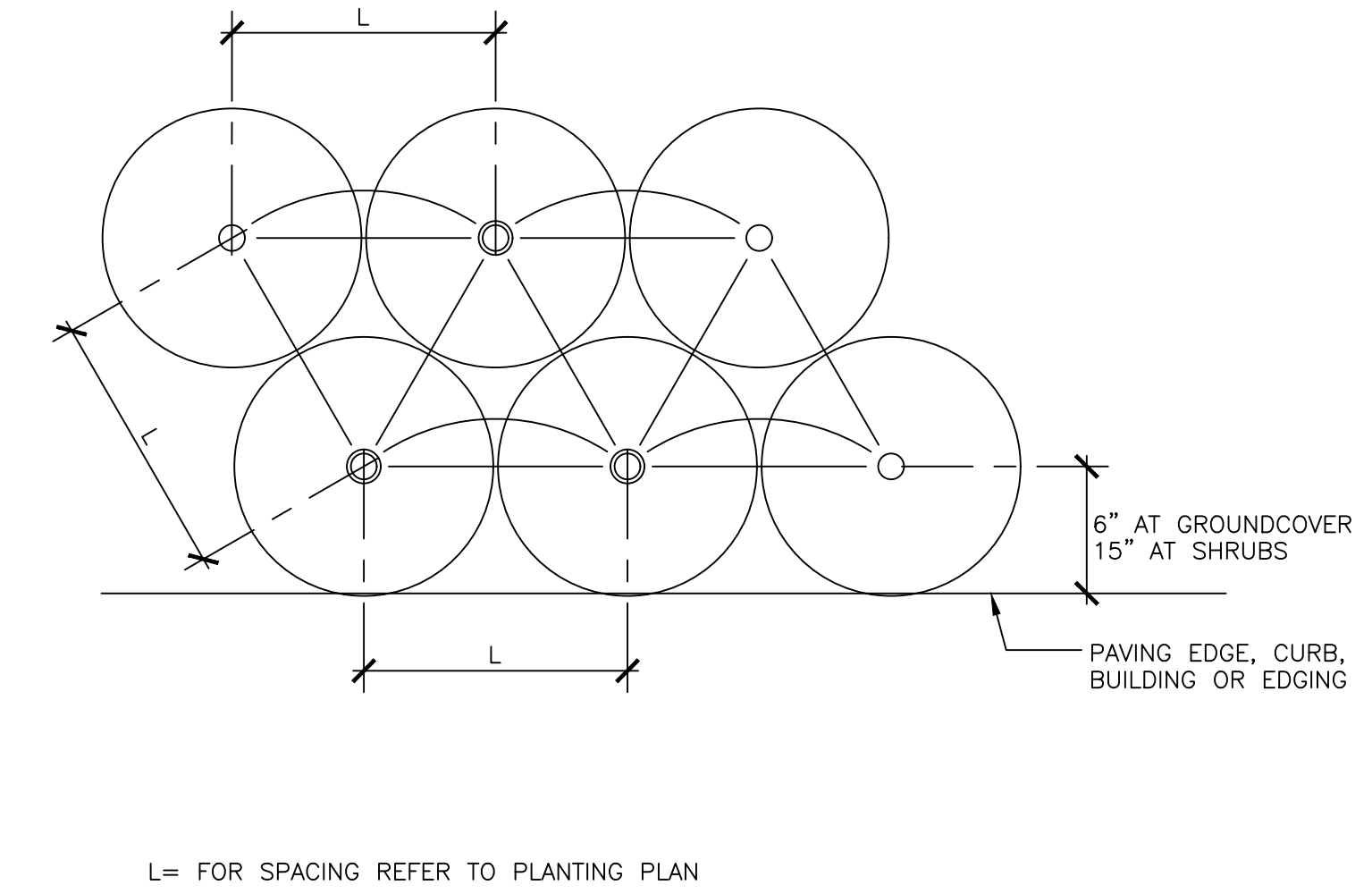
19-1 SHRUB PLANTING DETAIL

1" = 1'-0"



20-1 TREE PLANTING & 3X STAKING

1" = 1'-0"



21-1 TRIANGULAR SHRUB SPACING

1" = 1'-0"

PLANTING NOTES

- THE PLAN(S) ARE DIAGRAMMATIC. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE PROJECT ENGINEER/LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.
- CLEARING AND GRUBBING**
THE CONTRACTOR SHALL CLEAR AND GRUB ALL IMPROVEMENT AREAS PRIOR TO THE INSTALLATION OF THE IRRIGATION SYSTEM. SEE SPECIFICATIONS.
- TOPSOIL/SOILS REPORT**
THE CONTRACTOR SHALL OBTAIN AN AGRICULTURAL SUITABILITY REPORT FOR THE ON-SITE SOIL. TAKE A MINIMUM OF 3 TEST SAMPLES AS DIRECTED BY THE CITY LANDSCAPE ARCHITECT, PRIOR TO THE INSTALLATION OF IRRIGATION AND PLANTING. THE RECOMMENDATIONS FOR SOIL AMENDMENTS FROM THE REPORT SHALL BE FOLLOWED IF THEY DIFFER FROM THE ONES GIVEN IN THESE PLANTING NOTES. IF IMPORTED SOIL IS REQUIRED, IT SHALL BE CLASS 'A' SOIL OBTAINED FROM A SOURCE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE CITY LANDSCAPE ARCHITECT. CONTRACTOR SHALL GUARANTEE THE QUALITY OF THE TOPSOIL WITH AN APPROVED AGRICULTURAL SUITABILITY EVALUATION REPORT. SUBMIT THE EVALUATION REPORT TO THE CITY LANDSCAPE ARCHITECT FOR APPROVAL 30 DAYS PRIOR TO ANY SOIL PLACEMENT.
- PROTECTION OF EXISTING TREES**
THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING TREES AS NOTED ON THE PLANS OR AS DIRECTED BY THE CITY ENGINEER/LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL NOT STORE ANY CONSTRUCTION MATERIALS INCLUDING EXCAVATED SOILS NOR OPERATE ANY MACHINERY THAT MIGHT COMPACT THE EXISTING SOIL WITHIN THE DRIP LINE OF THE TREE'S CANOPY. THE CONTRACTOR SHALL PROVIDE IRRIGATION AND MAINTENANCE TO ALL PLANT MATERIALS THAT ARE TO REMAIN UNDISTURBED. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE IN SIZE, KIND, AND TO THE SATISFACTION OF THE CITY ENGINEER/LANDSCAPE ARCHITECT ANY EXISTING PLANT MATERIAL THAT IS TO BE PROTECTED AND IS DAMAGED DURING THE CONSTRUCTION PERIOD.
- WEED ABATEMENT**
THE CONTRACTOR SHALL SUBMIT A WEED ABATEMENT PROGRAM TO THE CITY ENGINEER/LANDSCAPE ARCHITECT FOR APPROVAL 30 DAYS PRIOR TO THE START OF PLANTING OPERATIONS. NO PLANTING OPERATIONS WILL BE ALLOWED UNTIL ALL PLANTING AREAS ARE CLEARED OF WEEDS IN ACCORDANCE WITH THE WEED ABATEMENT PROGRAM AND TO THE SATISFACTION OF THE CITY ENGINEER/LANDSCAPE ARCHITECT. MAINTAIN ALL PLANTING AREAS FREE OF WEEDS FOR THE DURATION OF THE CONTRACT.

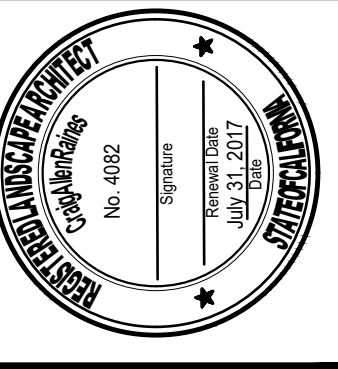
- PLANT LAYOUT**
THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER 48 HOURS PRIOR TO PLANTING OPERATIONS TO CONFIRM THE LOCATION OF PLANT MATERIALS. LOCATIONS AND QUANTITIES OF PLANT MATERIALS ON THE PLANS ARE APPROXIMATE AND ARE PROVIDED TO SHOW GENERAL INTENT. PLANT LOCATION ADJUSTMENTS SHALL BE PERFORMED BY THE CONTRACTOR AS DIRECTED BY THE CITY ENGINEER/LANDSCAPE ARCHITECT AT NO ADDITIONAL COST TO THE CITY.
- SOIL CONDITIONING**
ALL PLANTING AREAS SHALL HAVE THE FOLLOWING AMENDMENTS TILLED INTO THE TOP 6" OF THE SOIL PER 1000 SQUARE FEET:
 - THREE (3) CUBIC YARDS OF NITROGEN FORTIFIED WOOD COMPOST (TYPE 1 ORGANIC SOIL AMENDMENT).
 - TWO (2) CUBIC YARDS OF ORGANIC FERTILIZER (TYPE 2 ORGANIC SOIL AMENDMENT)
 - 100 POUNDS OF AGRICULTURAL GYPSUM
 - 20 POUNDS OF 12-12-12 QUICK RELEASE COMMERCIAL FERTILIZER THESE QUANTITIES ARE FOR BID BASIS ONLY. REFER TO SOILS REPORTS FOR FINAL QUANTITIES (SEE SPECIFICATIONS).
- BACKFILL MIX**
ALL PLANTING HOLES, EXCLUDING PLANTING HOLES SMALLER THAN 1 GALLON SHALL HAVE THE FOLLOWING BACKFILL MIXTURE:
70% EXISTING TOPSOIL
30% NITROGEN FORTIFIED WOOD COMPOST (TYPE 1 ORGANIC SOIL AMENDMENT)
(FOR AZALEAS, SUBSTITUTE 30% PEAT MOSS)
2 POUNDS PER CUBIC YARD OF IRON SULFATE AND THE FOLLOWING AMOUNT OF PLANTING TABLETS:
15 GAL. PLANT = FIVE (5) TABLETS
5 GAL. PLANT = THREE (3) TABLETS
1 GAL. PLANT = ONE (1) TABLET
ONE(1) TABLET PER 4" BOX SIZE
- MULCH**
APPLY 1" OF TYPE 5 MULCH IN ALL PLANTING AREAS.

- FERTILIZER**
THE CONTRACTOR SHALL APPLY AN 8-8-4 COMMERCIAL SLOW RELEASE FERTILIZER TO ALL PLANTING AREAS AT A RATE OF 20 POUNDS PER 1000 SQUARE FEET UPON COMPLETION OF THE GROUND COVER PLANTING AND AT THIRTY DAY INTERVALS THEREAFTER UNTIL THE END OF THE PLANT ESTABLISHMENT PERIOD. THOROUGHLY WATER ALL PLANTING AREAS FOLLOWING THE APPLICATION OF THE FERTILIZER. ALL FERTILIZER APPLICATIONS SHALL BE PERFORMED UNDER INSPECTION BY A REPRESENTATIVE FROM THE BUREAU OF CONTRACT ADMINISTRATION.
- PLANT REPLACEMENT**
THE CONTRACTOR SHALL REPLACE AS SOON AS POSSIBLE, ANY PLANT THAT SHOWS SIGNS OF FAILURE TO GROW AT ANY TIME DURING THE CONTRACT PERIOD OR THOSE PLANTS THAT ARE INJURED OR SO DAMAGED AS TO RENDER THEM UNSUITABLE FOR THE PURPOSE INTENDED. PROVIDE REPLACEMENT PLANTS OF THE SAME TYPE AND SIZE, AND INSTALL THEM PER THE PLANTING SPECIFICATION.
- PLANT ESTABLISHMENT PERIOD**
THE CONTRACTOR SHALL PROVIDE A PLANT ESTABLISHMENT PERIOD FOR A LENGTH OF 180 CALENDAR DAYS. ARRANGE FOR A PRE-MAINTENANCE FINAL INSPECTION TO START THE PLANT ESTABLISHMENT PERIOD BY CONTACTING THE BUREAU OF CONTRACT ADMINISTRATION, FINAL INSPECTION SECTION AT: METRO AREA-(213) 580-1394.
- RESTORATION OF DAMAGED AREAS**
THE CONTRACTOR SHALL RESTORE ALL LANDSCAPED AREAS TO THEIR ORIGINAL CONDITION THAT ARE NOT SPECIFICALLY PROVIDED FOR BY THESE PLANS, BUT HAVE BEEN IMPACTED BY CONSTRUCTION. PROVIDE ALL NECESSARY MATERIAL, INCLUDING IRRIGATION EQUIPMENT, SOIL, SOIL AMENDMENTS, PLANTS OF THE SAME SPECIES, KINDS, AND SIZED, ETC. TO THE SATISFACTION OF THE CITY ENGINEER AND THE CITY LANDSCAPE ARCHITECT AT NO ADDITIONAL COST TO THE CITY.
- GUARANTEES**
THE CONTRACTOR SHALL WARRANT ALL TREES 15 GALLON SIZED AND LARGER FOR ONE YEAR AND ALL SHRUBS SHALL BE WARRANTED FOR A PERIOD OF SIX MONTHS. THE WARRANTY PERIOD SHALL BEGIN UPON THE DATE OF THE FINAL POST MAINTENANCE ACCEPTANCE. THIS WARRANTY DOES NOT INCLUDE ITEMS DAMAGED DUE TO THE CITY'S NEGLIGENCE AND/OR TO ACTS OF GOD.

- INSPECTIONS**
ALL WORK AND MATERIALS ARE SUBJECT TO INSPECTION AND APPROVAL IN ADDITION TO INSPECTIONS REQUIRED BY THE STANDARD PLANS SPECIFICATIONS. THE FOLLOWING INSPECTIONS ARE REQUIRED:
-IRRIGATION SYSTEM PRESSURE TESTING
-IRRIGATION COVERAGE TEST
-IRRIGATION SYSTEM OPERATIONS TEST
-TAGGING OF PLANT MATERIAL 15 GALLON AND LARGER AT THEIR SOURCE.
*APPROVAL OF ALL PLANT MATERIAL AT THE SITE PRIOR TO PLANTING OPERATIONS.
*CONFIRMATION AND APPROVAL OF PLANT MATERIAL LOCATION AND SPACING PRIOR TO PLANTING.
*PRE-MAINTENANCE FINAL LANDSCAPE INSPECTION.
*POST-MAINTENANCE FINAL LANDSCAPE INSPECTION.
- RECYCLING**
THE CONTRACTOR SHALL RECYCLE ON-OR-OF-SITE ALL VEGETATIVE WASTE (PER SECTION 12.43 OF LAMC).



THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS
GENERAL MANAGER: MICHAEL A. SHULL
ASSISTANT GEN. MANAGER: RAMON BARRAJAS
PROJECT LANDSCAPE ARCHITECT: [NAME]
PROJECT ENGINEER: [NAME]
LIC. NO. [NO.]
LIC. NO. [NO.]
DATE: [DATE]
AS BUILT DRAWING BY: [NAME]



PROJECT NAME:
Trinity Skate Park
ADDRESS:
2415 Trinity St. Los Angeles, CA 90011

REVISIONS:	DATE:

PLAN NAME:
PLANTING DETAIL

DRAWN BY:
Zhiya Huang
Gongying Fu

APPROVED BY:
[Signature]

SCALE:
[SCALE]

ISSUE DATE:
[DATE]

PRJ #
[PRJ #]

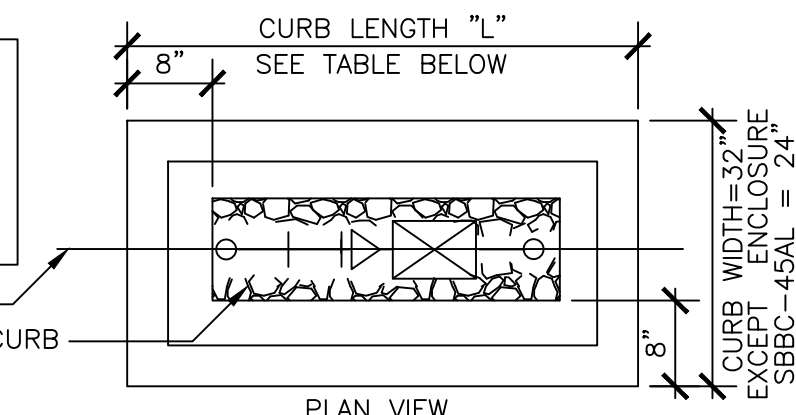
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SHEET **16** OF **16** SHEETS

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MANUFACTURER'S INSTALLATION INSTRUCTIONS BPU NOTES-- MOUNTING HARDWARE: REFER TO BEFORE POURING CONC. CURB. INSTALL WITH VENT 12 IN. MIN. CLEAR ABOVE TOP OF CURB, AND 12 IN. OF VERTICAL SEPARATION BETWEEN CENTERLINE OF UNITS WHERE DOMESTIC & IRRIGATION DEVICES ARE INSTALLED TOGETHER



CENTER BACKFLOW UNIT WITHIN CURB
FILL OPENING WITH PEA GRAVEL TO TOP OF CURB

ALL ABOVE GRADE PIPE EITHER SCHEDULE 40 GALV. OR TYPE K COPPER, AS NOTED

IRRIGATION RED. PRES. BACKFLOW PREVENTION UNIT

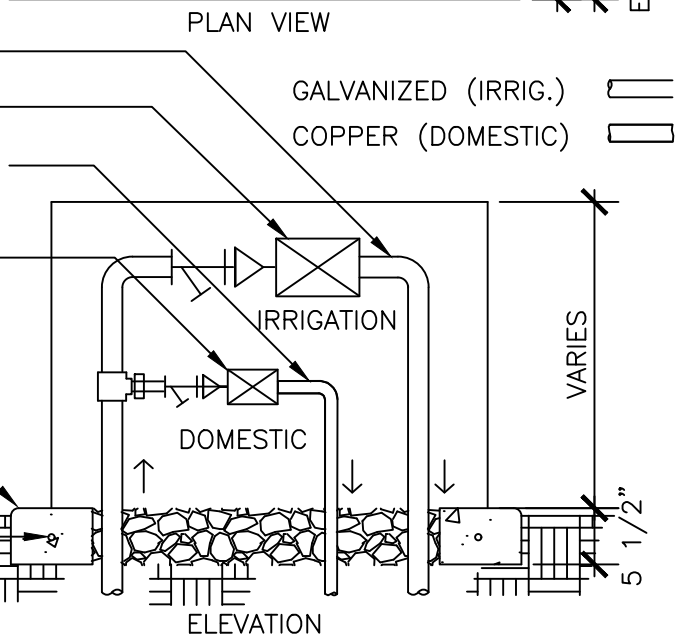
TYPE K COPPER PIPE & FITTINGS (DOMESTIC SERVICE)

DOMESTIC RED. PRES. BACKFLOW PREVENTION UNIT WHEN REQUIRED ON PLAN.

COPPER TO GALVANIZED STEEL PIPE CONNECTION SHALL BE MADE WITH DIELECTRIC UNION.

1/2" RADIUS ALL OUTSIDE TOP EDGES OF CURB FINISH GRADE 1" BELOW TOP OF CONC.

#3 REBAR CONT. CENTERED BOTH WAYS
COMPACTED SUB GRADE



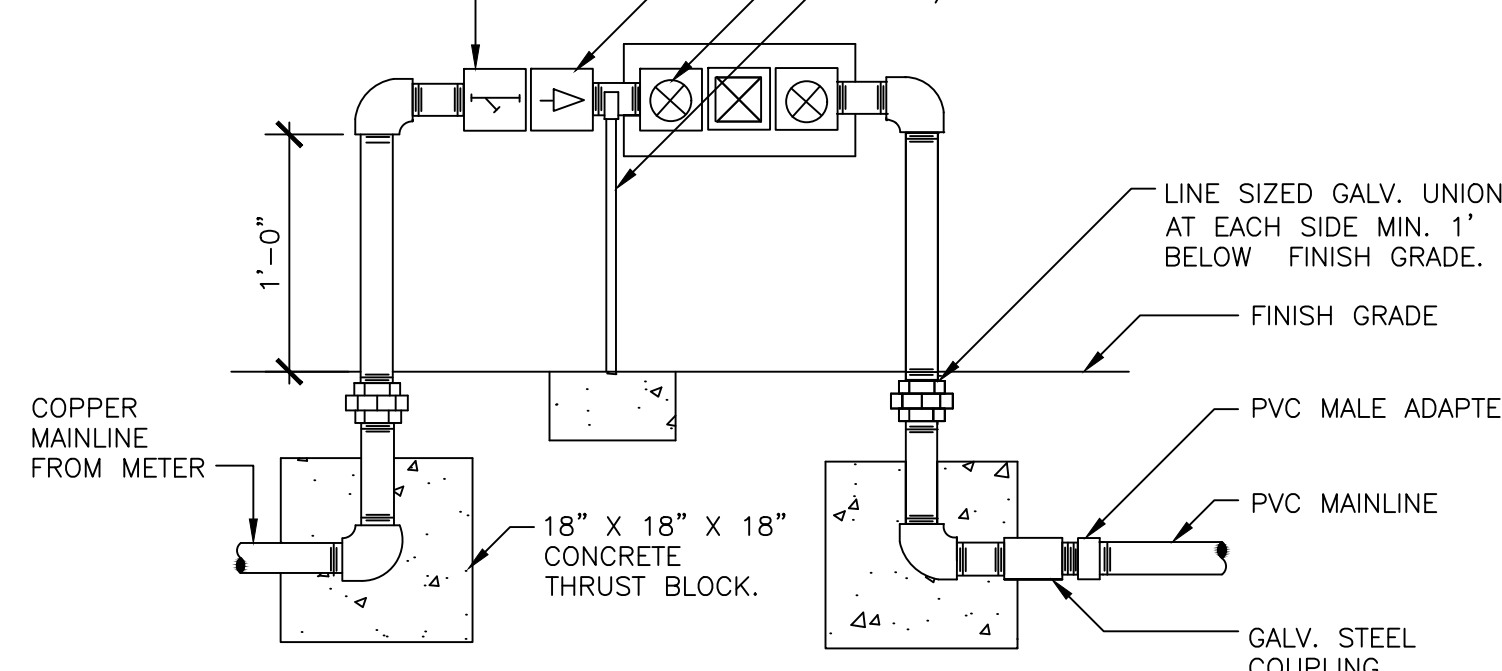
BACKFLOW SIZE AND ENCLOSURE MODEL & CURB SIZE TABLE						
SIZE:	RAINMAN RMSS (714) 776-5420, or LE MEUR BFSS (714) - 039	OR ENCL. DIA. (width x length)	LENGTH "L"	STRONG BOX INC. (714) 947-6992	ENCL. DIM. (width x length)	LENGTH "L"
1 INCH	42" SINGLE	24"x42"	50 INCHES	SBBC-45AL	16"x45"	53 INCHES
2 INCH	60" DOUBLE	24"x60"	68 INCHES	SBBC-60ALHP	24"x60"	68 INCHES
3 INCH	84" DOUBLE	24"x84"	92 INCHES	SBBC-90ALHP	24"x90"	98 INCHES

NOTE: FOR SIZES 4 IN. AND LARGER, USE BACKFLOW CAGE, RP DETAIL102

9-1 BACKFLOW DEVICE ENCLOSURE

1'-0" = 1'-0"

BRASS OR BRONZE PRESSURE REGULATOR, SET AS INDICATED ON THE IRRIGATION PLAN
UNIT WITH INLET AND OUTLET VALVES.
3" AND LARGER UNITS, PROVIDE A 1" DIA. PIPE SUPPORT WITH A 12" SQ. X 5 1/2" THICK CONC. FOOTING

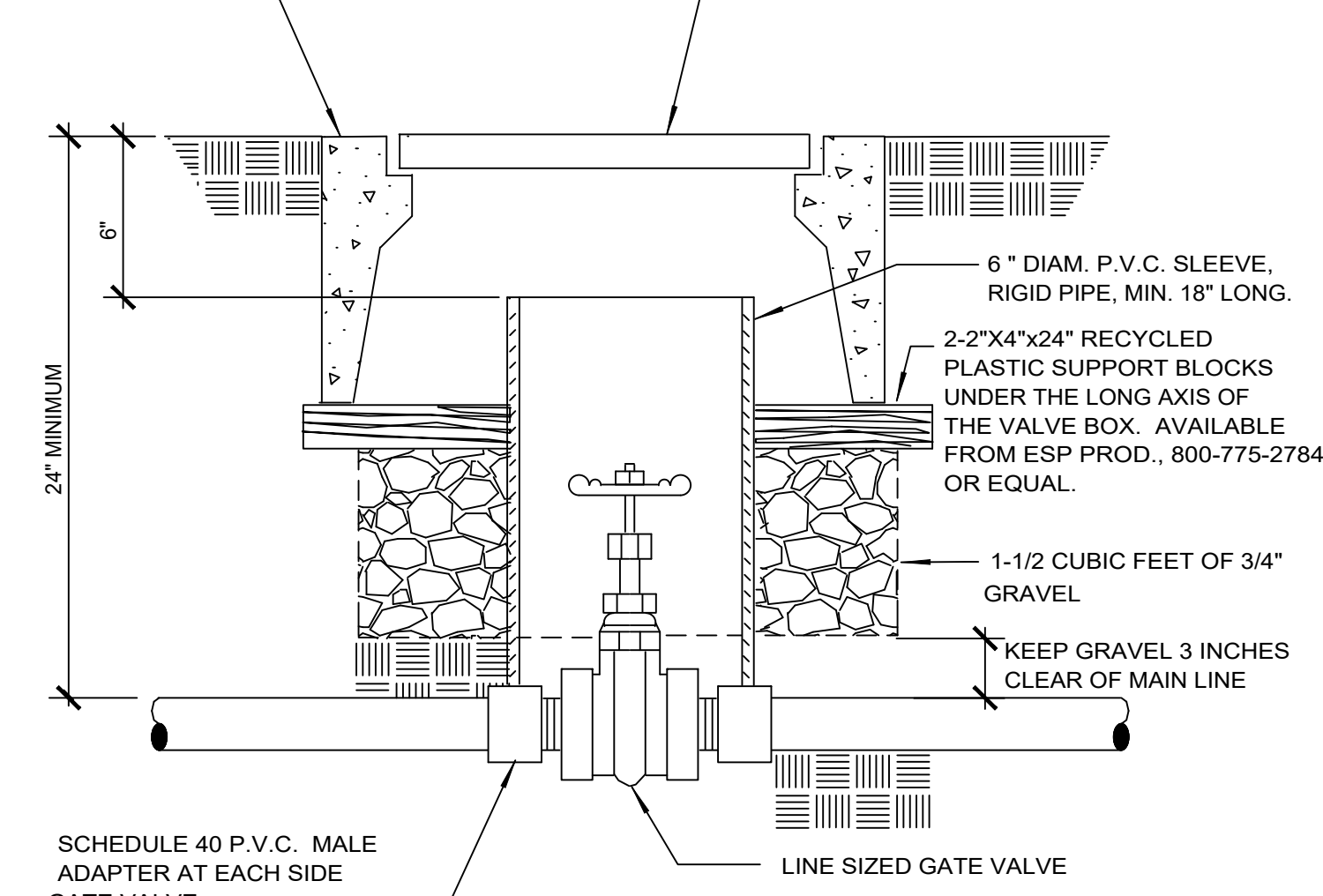


- NOTES:
- ALL PIPE SHALL BE COPPER UNLESS OTHERWISE NOTED. USE TEFLON TAPE ON ALL MALE THREADS. BACKFLOW AND REGULATING EQUIPMENT 3" AND LARGER SHALL BE FLANGE MOUNTED.
 - THE BACKFLOW PREVENTER SHALL BE TESTED BY A CERTIFIED TESTER WITH THE RESULTS SENT TO THE L.A. COUNTY HEALTH DEPT., ON THE "BACKFLOW PREVENTION DEVICE TESTING REPORT". PROVIDE A COPY TO THE PROJECT MANAGER AT THE OPERATIONAL FINAL.
 - THE Y-STRAINER AND PRESSURE REGULATOR MAY BE INSTALLED ON THE VERTICAL INLET PIPE FOR UNITS 2" AND SMALLER.

10-1 BACKFLOW PREVENTER UNIT TO 3"

1'-0" = 1'-0"

SET VALVE BOX FLUSH WITH FINISH GRADE
CONCRETE VALVE BOX WITH CAST IRON LOCKING COVER EMBOSSED "G.V." PER NOTICE TO CONTRACTORS

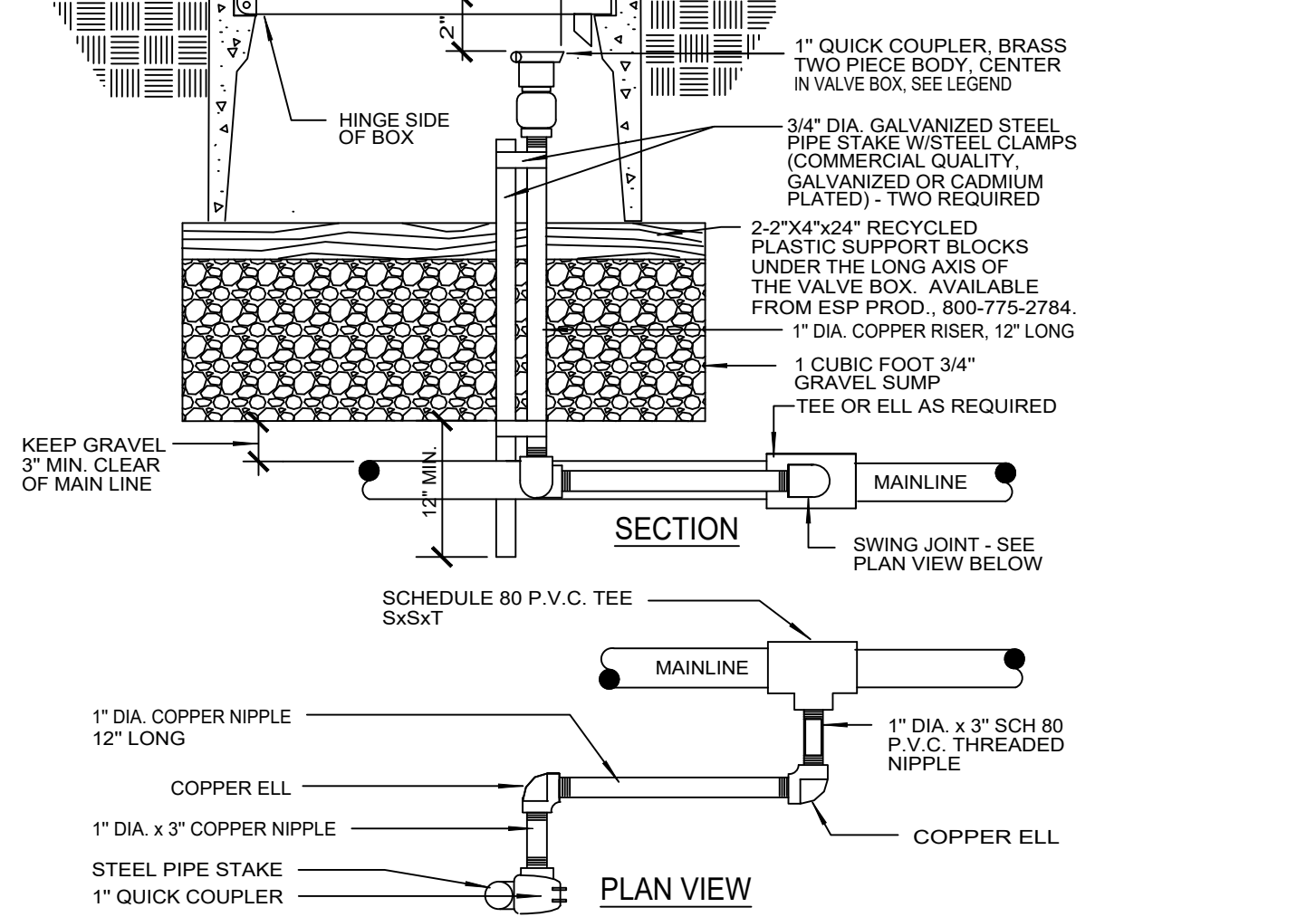


SCHEDULE 40 P.V.C. MALE ADAPTER AT EACH SIDE GATE VALVE
LINE SIZED GATE VALVE
FOR 4" GATE VALVES AND LARGER REFER TO RECREATION AND PARKS RP DETAILS #130 AND 131.

11-1 GATE VALVE INSTALLATION

1'-0" = 1'-0"

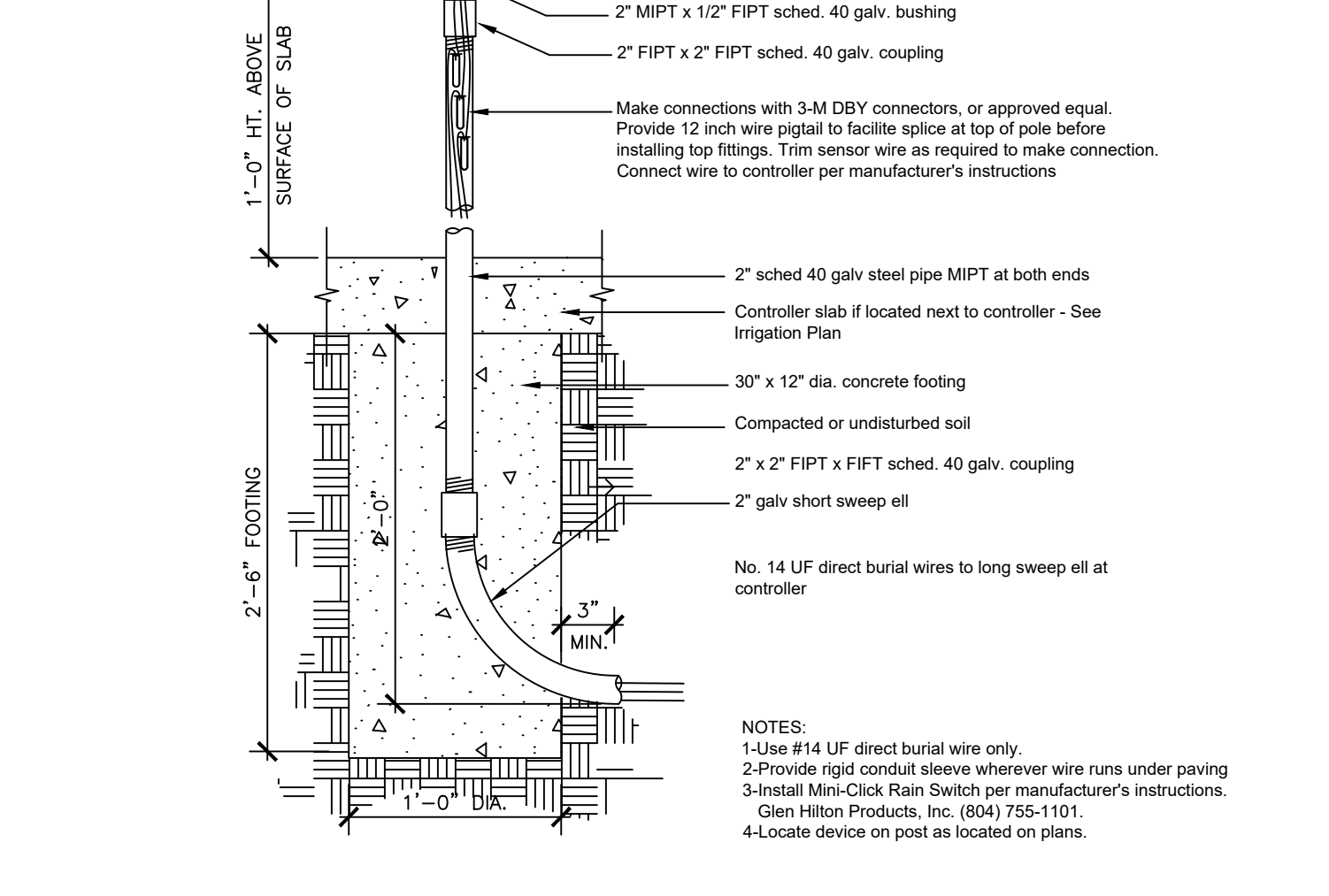
CONCRETE VALVE BOX WITH CAST IRON LID AND FLANGE LID EMBOSSED "G.V." SET TOP OF BOX FLUSH WITH ADJACENT FINISH GRADE.
HINGE SIDE OF BOX
1" QUICK COUPLER BRASS TWO PIECE BODY, CENTER IN VALVE BOX, SEE LEGEND
3/4" DIA GALVANIZED STEEL PIPE STAKE W/STEEL CLAMP (COMMERCIAL QUALITY GALVANIZED OR CADMIUM PLATED) - TWO REQUIRED
2-2"x4"x24" RECYCLED PLASTIC SUPPORT BLOCKS UNDER THE LONG AXIS OF THE VALVE BOX. AVAILABLE FROM ESP PROD., 800-775-2784.
1" DIA. COPPER RISER, 12" LONG
1 CUBIC FOOT 3/4" GRAVEL SUMP
TEE OR ELL AS REQUIRED
KEEP GRAVEL 3" MIN. CLEAR OF MAIN LINE
12" MIN.
SECTION
SWINGS JOINT - SEE PLAN VIEW BELOW
SCHEDULE 80 P.V.C. TEE SxSxT
MAINLINE
1" DIA. COPPER NIPPLE 12" LONG
COPPER ELL
1" DIA. x 3" COPPER NIPPLE
STEEL PIPE STAKE
1" QUICK COUPLER
PLAN VIEW
1" DIA. x 3" SCH 80 P.V.C. THREADED NIPPLE
COPPER ELL



12-1 QUICK COUPLER INSTALLATION

5/6" = 1'-0"

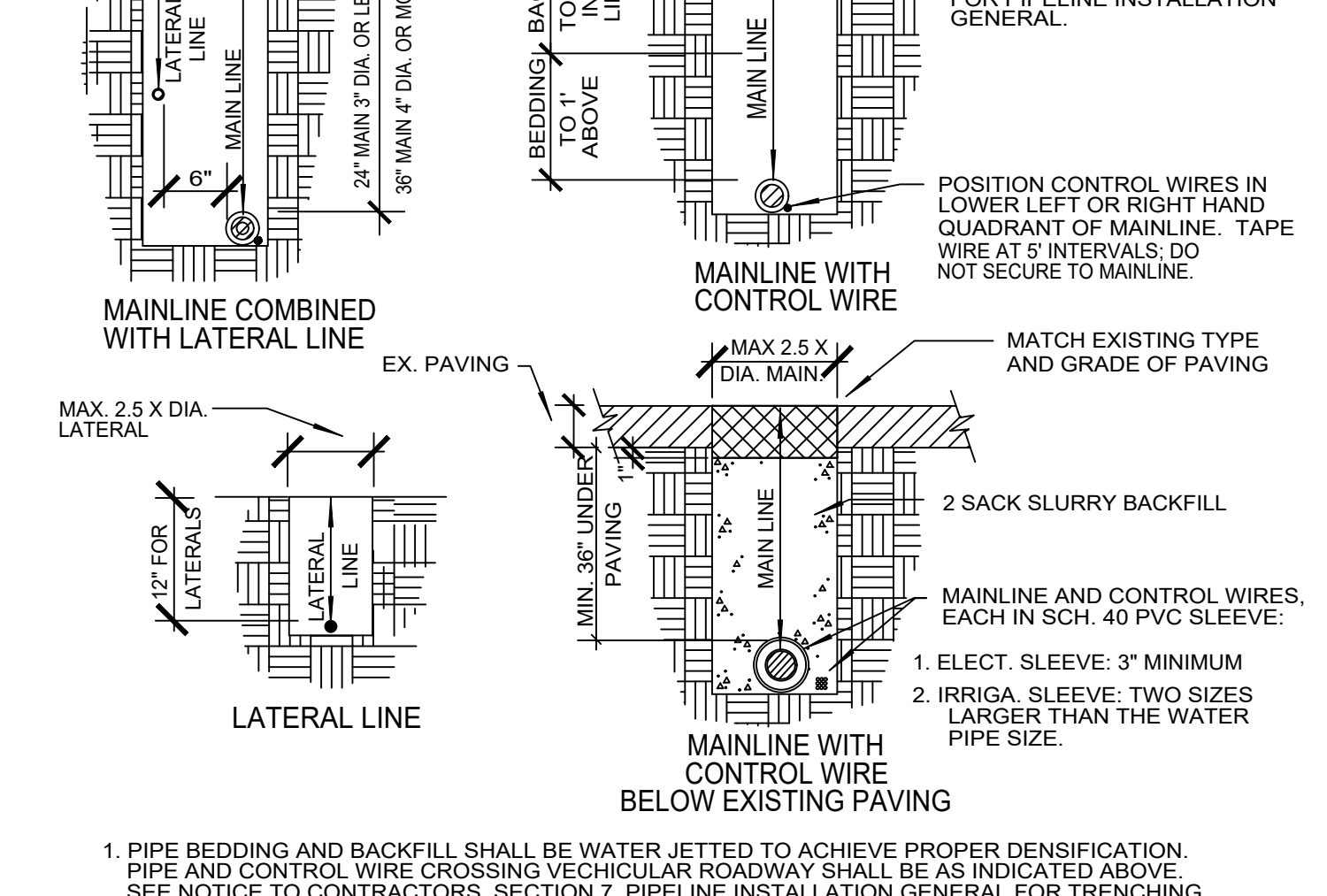
Mini-Click II Rain Sensor Model No. 502C
1/2"x1/2" MIPT x MIPT sched. 80 PVC close nipple
2" MIPT x 1/2" FIPT sched. 40 galv. bushing
2" FIPT x 2" FIPT sched. 40 galv. coupling
Make connections with 3-M DBY connectors, or approved equal. Provide 12 inch wire pigtail to facilitate splice at top of pole before installing top fittings. Firm sensor wire as required to make connection. Connect wire to controller per manufacturer's instructions.
2" sched 40 galv steel pipe MIPT at both ends
Controller slab if located next to controller - See Irrigation Plan
30" x 12" dia. concrete footing
Compacted or undisturbed soil
2" x 2" FIPT x FIPT sched. 40 galv. coupling
2" galv short sweep ell
No. 14 UF direct burial wires to long sweep ell at controller
NOTES:
1-Use #14 UF direct burial wire only.
2-Provide rigid conduit sleeve wherever wire runs under paving.
3-Install Mini-Click Rain Switch per manufacturer's instructions. Glen Hiller Products, Inc. (654) 755-1101.
4-Locate device on post as located on plans.



13-1 MINI-CLICK II RAIN SWITCH ON POST

5/6" = 1'-0"

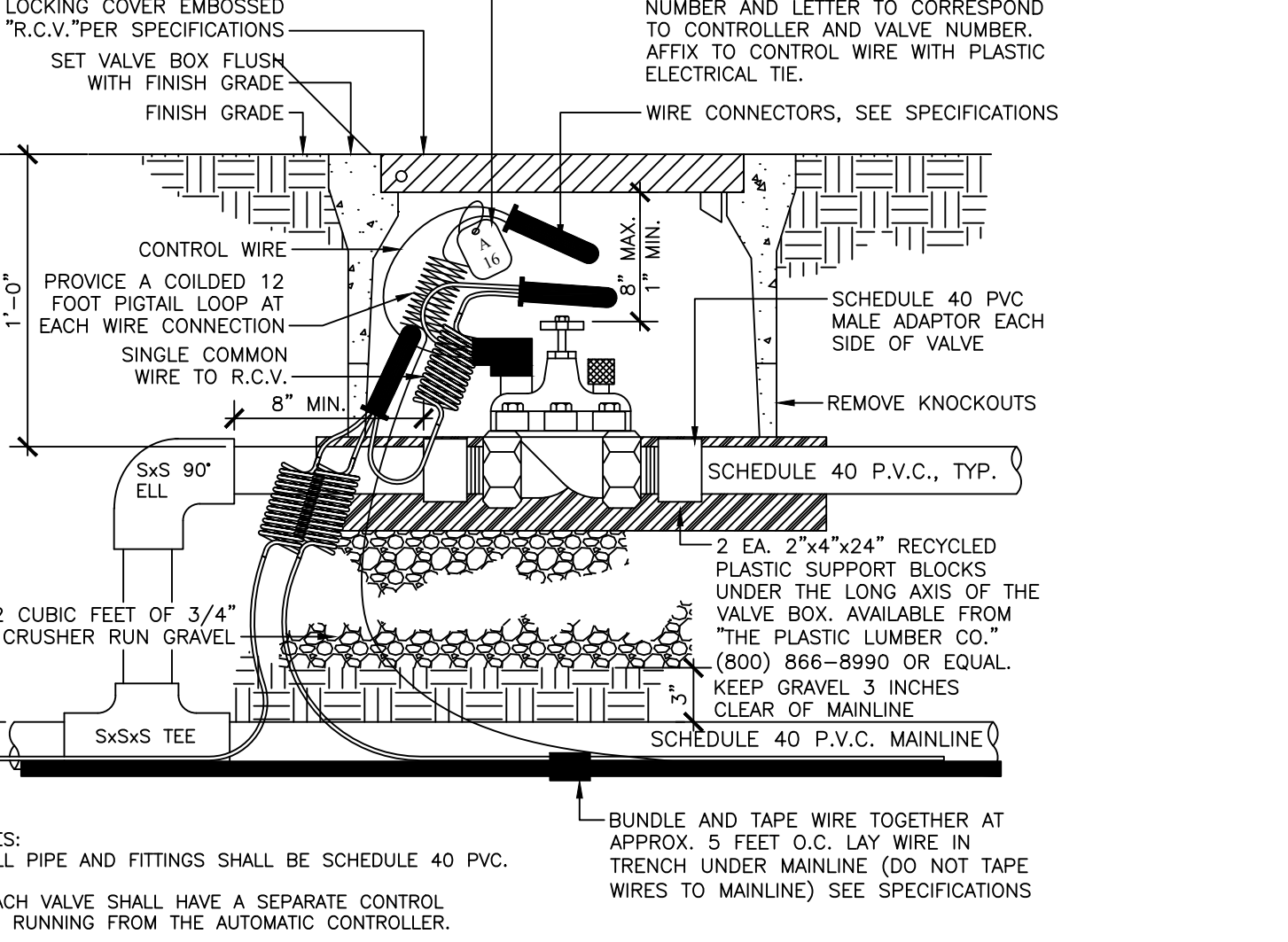
BACKFILL AS INDICATED IN THE NOTICE TO CONTRACTORS FOR PIPELINE INSTALLATION GENERAL.
POSITION CONTROL WIRES IN LOWER LEFT OR RIGHT HAND QUADRANT OF MAINLINE. TAPE WIRE AT 5" INTERVALS; DO NOT SECURE TO MAINLINE.
MATCH EXISTING TYPE AND GRADE OF PAVING
2 SACK SLURRY BACKFILL
MAINLINE AND CONTROL WIRES, EACH IN SCH. 40 PVC SLEEVE:
1. ELECT. SLEEVE: 3" MINIMUM
2. IRRIGA. SLEEVE: TWO SIZES LARGER THAN THE WATER PIPE SIZE.
1. PIPE BEDDING AND BACKFILL SHALL BE WATER JETTED TO ACHIEVE PROPER DENSIFICATION. PIPE AND CONTROL WIRE CROSSING VEHICULAR ROADWAY SHALL BE AS INDICATED ABOVE. SEE NOTICE TO CONTRACTORS, SECTION 7, PIPELINE INSTALLATION GENERAL FOR TRENCHING SPECIFICATIONS.



14-1 IRRIGATION TRENCHING DETAIL

1'-0" = 1'-0"

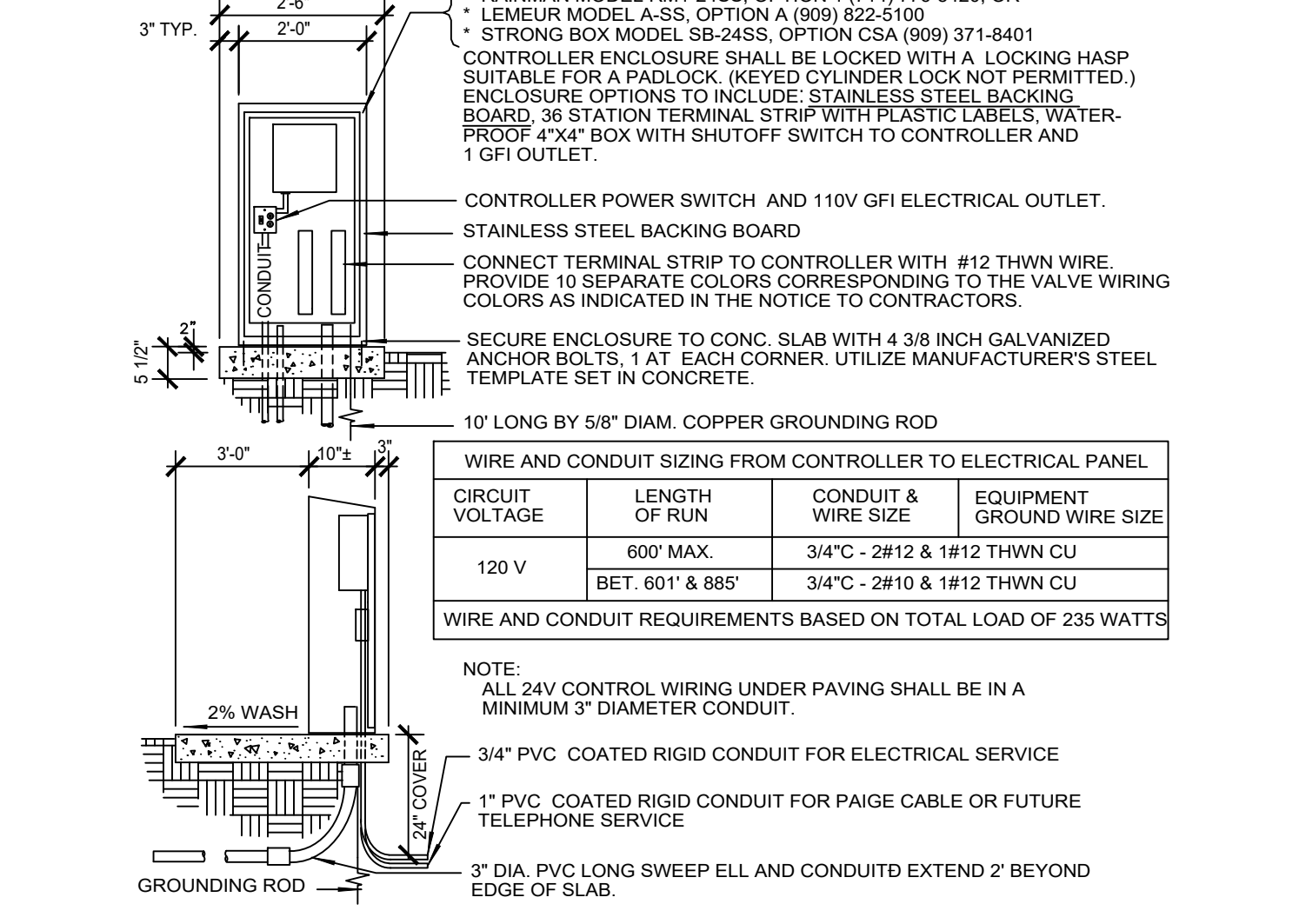
"CHRISTY" STD. VALVE I.D. TAG - NUMBER AND LETTER TO CORRESPOND TO CONTROLLER AND VALVE NUMBER. AFFIX TO CONTROL WIRE WITH PLASTIC ELECTRICAL TIE.
WIRE CONNECTORS, SEE SPECIFICATIONS
CONTROL WIRE PROVIDE A COILED 12 FOOT PIGTAIL LOOP AT EACH WIRE CONNECTION SINGLE COMMON WIRE TO R.C.V.
8" MIN.
REMOVE KNOCKOUTS
SCHEDULE 40 P.V.C., TYP.
2 CUBIC FEET OF 3/4" CRUSHER RUN GRAVEL
KEEP GRAVEL 3 INCHES CLEAR OF MAINLINE
SCHEDULE 40 P.V.C. MAINLINE
SxSxS TEE
NOTES:
1. ALL PIPE AND FITTINGS SHALL BE SCHEDULE 40 P.V.C.
2. EACH VALVE SHALL HAVE A SEPARATE CONTROL WIRE RUNNING FROM THE AUTOMATIC CONTROLLER.
BUNDLE AND TAPE WIRE TOGETHER AT APPROX. 5 FEET O.C. LAY WIRE IN TRENCH UNDER MAINLINE (DO NOT TAPE WIRES TO MAINLINE) SEE SPECIFICATIONS



15-1 RCV INSTALLATION

5/6" = 1'-0"

* RAINMAN MODEL RM1-24SS, OPTION 1 (714) 776-5420, OR * LEMEUR MODEL A-SS, OPTION A (909) 822-5100
* STRONG BOX MODEL SB-24SS, OPTION CSA (909) 371-9401
ENCLOSURE OPTIONS TO INCLUDE: STAINLESS STEEL BACKING BOARD, 36 STATION TERMINAL STRIP WITH PLASTIC LABELS, WATER-PROOF 4"x4" BOX WITH SHUTOFF SWITCH TO CONTROLLER AND 1 GFI OUTLET.
CONTROLLER POWER SWITCH AND 110V GFI ELECTRICAL OUTLET.
STAINLESS STEEL BACKING BOARD
CONNECT TERMINAL STRIP TO CONTROLLER WITH #12 THWN WIRE. PROVIDE 10 SEPARATE COLORS CORRESPONDING TO THE VALVE WIRING COLORS AS INDICATED IN THE NOTICE TO CONTRACTORS.
SECURE ENCLOSURE TO CONC. SLAB WITH 4 3/8 INCH GALVANIZED ANCHOR BOLTS, 1 AT EACH CORNER. UTILIZE MANUFACTURER'S STEEL TEMPLATE SET IN CONCRETE.
10' LONG BY 5/8" DIAM. COPPER GROUNDING ROD
WIRE AND CONDUIT SIZING FROM CONTROLLER TO ELECTRICAL PANEL
CIRCUIT VOLTAGE LENGTH OF RUN CONDUIT & WIRE SIZE EQUIPMENT GROUND WIRE SIZE
120 V 600' MAX. 3/4" - 2#12 & 1#12 THWN CU
BET. 601' & 885' 3/4" - 2#10 & 1#12 THWN CU
WIRE AND CONDUIT REQUIREMENTS BASED ON TOTAL LOAD OF 235 WATTS
NOTE:
ALL 24V CONTROL WIRING UNDER PAVING SHALL BE IN A MINIMUM 3" DIAMETER CONDUIT.
3/4" PVC COATED RIGID CONDUIT FOR ELECTRICAL SERVICE
1" PVC COATED RIGID CONDUIT FOR PAIGE CABLE OR FUTURE TELEPHONE SERVICE
3" DIA. PVC LONG SWEEP ELL AND CONDUIT EXTEND 2' BEYOND EDGE OF SLAB.
2% WASH
3" COVER
GROUNDING ROD

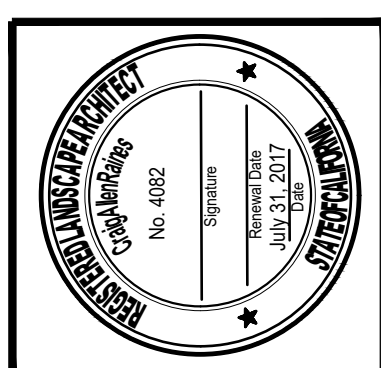


16-1 SINGLE CONTROLLER ENCLOSURE

5/6" = 1'-0"



THE CITY OF LOS ANGELES DEPARTMENT OF RECREATION AND PARKS
GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARRAJAS
PROJECT LANDSCAPE ARCHITECT: CRAIG BARNES
PROJECT ENGINEER: _____ LIC. NO. _____
AS-BUILT DRAWN BY: _____ DATE: _____

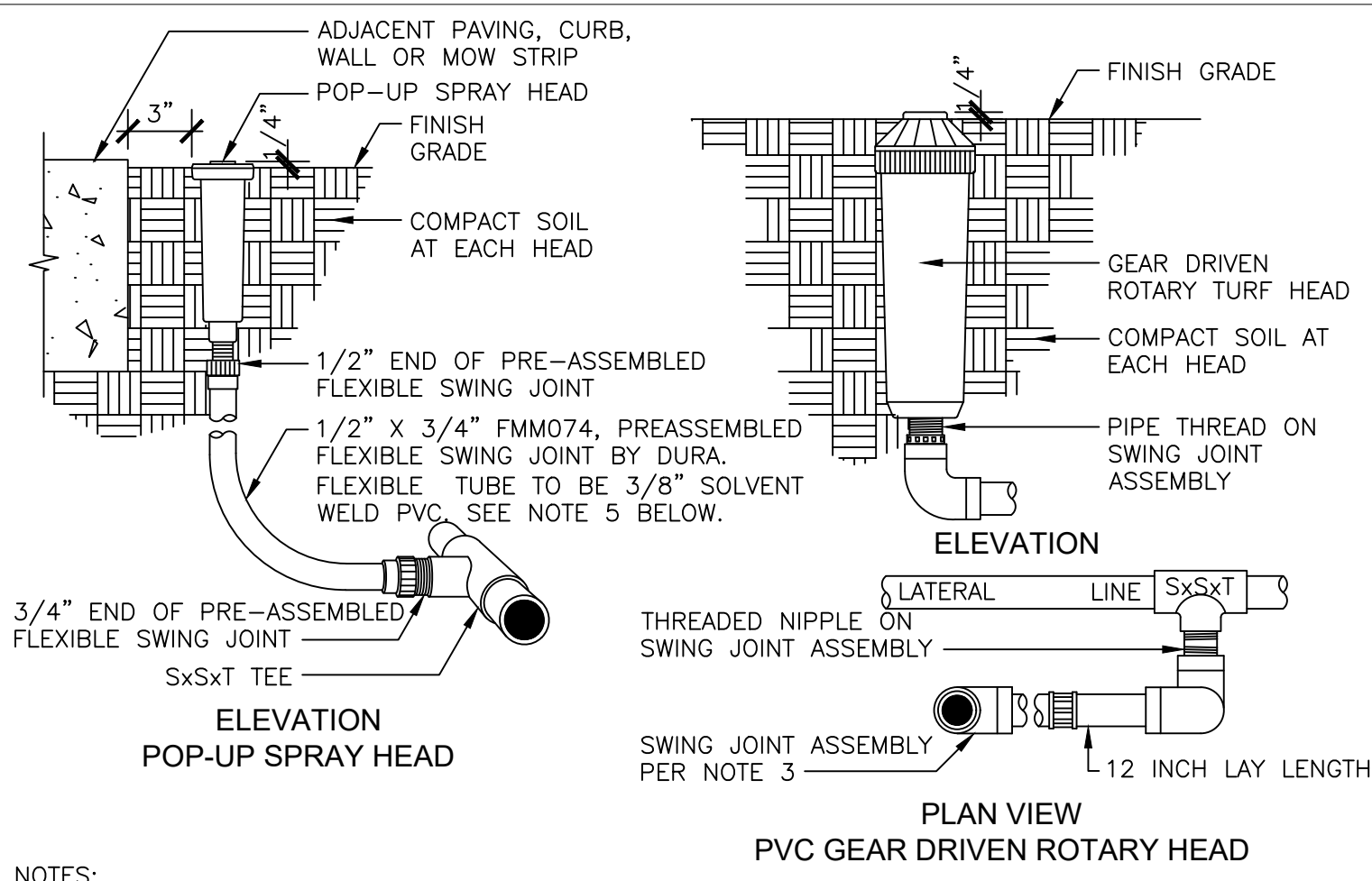


PROJECT NAME: Trinity Skate Park
ADDRESS: 2415 Trinity St. Los Angeles, CA 90011

REVISIONS:	DATE:

PLAN NAME: IRRIGATION DETAIL ONE
DRAWN BY: _____ APPROVED BY: _____
SCALE: _____ ISSUE DATE: _____
PRJ # _____ FILE NO. _____
DRAWING NO. LS-9
SHEET 14 OF 16 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS PLAN SHEET.



- NOTES:**
1. PLACE ALL HEADS 1/4" ABOVE FINISH GRADE AT INITIAL INSTALLATION. SET HEADS 3" AWAY FROM WALKS, CURBS, WALLS OR MOW STRIPS.
 2. INSTALL HEADS PERPENDICULAR TO FINISH GRADE.
 3. SWING JOINTS FOR PVC GEAR DRIVEN ROTARY HEADS SHALL BE:
FOR 1" SPRINKLER HEAD INLET - DURA MODEL # 1-A1-LAC-1-12 (CITY OF LOS ANGELES STANDARD) FOR 3/4" SPRINKLER HEAD INLET - DURA MODEL # E008-12. ALL SWING JOINTS SHALL HAVE 12 INCH LAY LENGTH. AVAILABLE FROM DURA PLASTIC PRODUCTS, INC. (800) 854-2323
 4. THE SWING JOINTS FOR PVC GEAR DRIVEN ROTARY HEADS SHALL BE "O" RING THREADED ASSEMBLIES. TURN THE THREADED PARTS UNTIL THEY BOTTOM OUT THEN BACK OUT ONE FULL TURN TO ALLOW JOINTS TO SWIVEL FREELY.
 5. IN LIEU OF USING FLEXIBLE SWING JOINTS, CONTRACTOR MAY INSTALL POP-UP HEADS ON RIGID PIPE SWING JOINTS AT NO ADDITIONAL CHARGE TO THE CITY.

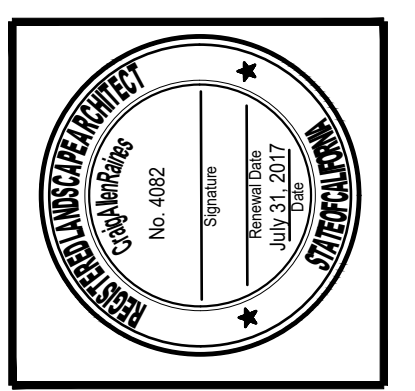
9-1 IRRIGATION HEAD INSTALLATION 1'-0" = 1'-0" 1'-0" = 1'-0"

IRRIGATION NOTES

- 1. IRRIGATION PLANS**
THE PLAN(S) IS DIAGRAMMATIC. LOCATE ALL PIPING, VALVES, ETC. IN PLANTING AREAS WHERE POSSIBLE UNLESS OTHERWISE NOTED. LOCATE ALL IRRIGATION HEADS A MINIMUM OF 3" FROM THE EDGE OF CURBS, WALLS, FENCES, AND/ OR OTHER HARDSCAPE AREAS AND 12" FROM BUILDING WALL.
- 2. VERIFY CONDITIONS**
THE CONTRACTOR SHALL VERIFY EXISTING LOCATIONS OF ALL UTILITY SERVICE LINES AND SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE INCURRED DURING HIS/HER WORK. VERIFY THE STATIC PSI AND THE GPM AT THE POINT OF CONNECTION. NOTIFY THE PROJECT ENGINEER LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.
- 3. BACKFLOW DEVICE CERTIFICATION**
THE CONTRACTOR SHALL OBTAIN CERTIFICATION OF THE BACKFLOW DEVICE(S) FROM THE LOS ANGELES COUNTY HEALTH DEPARTMENT. SUBMIT THE CERTIFICATE OF APPROVAL FOR BACK FLOW DEVICE PLUS (2) TWO COPIES TO THE PROJECT ENGINEER AT THE TIME OF OPERATIONAL TESTING OF THE IRRIGATION SYSTEM.
- 4. VALVE BOXES**
UNLESS OTHERWISE SHOWN OR NOTED, STANDARD PLAN S-655-0 IS MODIFIED AS FOLLOWS: ALL VALVE/PULL BOXES SHALL BE 9 1/2" x 16" x 12" AND 12" x 22" x 12" SIZES, MADE OF CONCRETE WITH CAST IRON, DOUBLE TOGGLE LOCKING TRAFFIC LID. ALL VALVE/PULL BOX LIDS SHALL BE EMBOSSED WITH THE FOLLOWING IDENTIFICATION IN 2" HIGH INITIALS:
SHUT - OFF VALVE SOV
REMOTE CONTROL VALVE RCV
QUICK COUPLER VALVE QCV
ELECTRICAL PULL BOX ELECTRICAL
CAST IRON LIDS SHALL BE COMPLETELY REMOVABLE FROM THE CONCRETE VALVE BOX (TRAFFIC RATED TYPE). HINGED CAST IRON LIDS ARE UNACCEPTABLE AND ARE NOT TO BE INSTALLED.
- 5. PIPE AND FITTINGS**
ALL MAIN LINES SHALL BE NEW SCH. 80 PVC. AND ALL LATERAL LINES SHALL BE NEW SCH. 40 PVC. ALL THREADED FITTINGS SHALL BE NEW SCH. 80 PVC., UNLESS OTHERWISE NOTED.
- 6. SWING JOINTS**
ALL SWING JOINTS AND RISERS SHALL BE CONSTRUCTED OF EITHER SCHEDULE 80 PVC. OR SCHEDULE 40 GALVANIZED STEEL THREADED FITTINGS (SEE CONSTRUCTION DETAILS FOR CONSTRUCTION AND INSTALLATION SWING JOINTS). STREET ELLS WILL NOT BE PERMITTED. CONTRACTOR TO SUBMIT A SWING JOINT FOR APPROVAL PRIOR TO INSTALLATION.
- 7. TRENCHING/EXCAVATION**
THE CONTRACTOR SHALL NOT TRENCH OR EXCAVATE FOR IRRIGATION PIPING, CONDUIT, WALL FOOTINGS, ETC. WITHIN THE DRIP LINE OF ANY EXISTING TREE. ALLOWANCES CAN BE MADE ONLY IF THE CONTRACTOR SUBMITS A WRITTEN REQUEST TO THE PROJECT ENGINEER/LANDSCAPE ARCHITECT STATING WAYS AND MEANS AS TO HOW THE CONTRACTOR WILL PROCEED WITH MINIMUM DISTURBANCE TO THE TREE.
- 8. PIPE BEDDING AND BACKFILL**
BEDDING SHALL SURROUND THE PIPE TO ONE FOOT ABOVE THE TOP OF THE PIPE. BEDDING SHALL BE PLACED IN 6" LIFTS. ALL BEDDING SHALL BE DENSIFIED BY WATER JETTING. WATER JETTING SHALL BE SUFFICIENT TO THOROUGHLY WET BEDDING MATERIAL AROUND THE PIPE (SSPWC 308-1.2.1). THERE SHALL BE NO ROCKS OVER 1/2" IN GREATEST DIMENSION AND NO ORGANIC MATTER PLACED IN THE BEDDING MATERIAL. BACKFILL SHALL BE THE MATERIAL PLACED ABOVE THE BEDDING. BACKFILL SHALL BE PLACED IN ONE-FOOT LIFTS AND DENSIFIED BY WATER JETTING. JETTING SHALL BE CONTINUED UNTIL BACKFILL COLLAPSES AND WATER IS FORCED TO THE SURFACE (SSPWC 308-1.3.1. .). PIPE TRENCHES THOROUGHLY DENSIFIED BY WATER SETTLING SHALL HAVE A MINIMUM RELATIVE COMPACTION OF 85%. THERE ARE NO ROCKS OVER 2" IN GREATEST DIMENSION OR ORGANIC MATTER IN THE BACKFILL. TRENCH AREAS WHICH EXHIBIT INSUFFICIENT IDENTIFICATION SHALL BE SUBJECT TO COMPACTION TESTS AS REQUESTED BY THE INSPECTOR OR THE PROJECT ENGINEER. ALL SUCH COMPACTION TEST SHALL BE AT EXPENSE OF THE CONTRACTOR, UNTIL THE 85% COMPACTION IS ACHIEVED. FINISHED TRENCHES SHALL MEET AND MATCH ADJACENT FINISH GRADE FLUSH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE TRENCHES FLUSH AND SMOOTH UNTIL FINAL ACCEPTANCE OF THE PROJECT. TRENCHES IN EXISTING LAWN SHALL BE REPAIRED PER METHOD 'A' LAWN REPAIR PER THE SSPWC 308-4.8.2.
- 9. ELECTRICAL CONTROL WIRES**
CONTROL WIRING SHALL BE DIRECT BURIAL TYPE MINIMUM 10 GA. (AWG). SEE IRRIGATION CONTROLLER DETAIL FOR WIRE SIZE. PROVIDE WIRING TO ALL REMOTE CONTROL VALVES INCLUDING A SPARE CONTROL WIRE TO THE FURTHEST REMOTE CONTROL VALVE. IN THE EVENT THAT ONE CONTROLLER HAS SEVERAL DIRECTIONS OF CONTROL WIRE RUNS, ALL DIRECTIONS SHALL HAVE AN EXTRA CONTROL WIRE. ALL SPARE CONTROL WIRES SHALL BE IDENTIFIED WITH INTEGRAL WIRE COLOR CODING AS FOLLOWS:
COMMON WIRE WHITE
CONTROL WIRE RED (FIRST CONTROLLER)
ORANGE (SECOND CONTROLLER)
YELLOW (THIRD CONTROLLER IF APPLICABLE)
SPARE WIRE GREEN
- 10. ELECTRICAL CONTROL WIRE CONNECTIONS**
CONTROL WIRE CONNECTIONS SHALL BE MADE USING AN APPROVED, WATERTIGHT CONNECTOR SYSTEM. WIRES SHALL BE CONNECTED USING A COPPER CRIMP SLEEVE. THE CONNECTION SHALL BE PLACED IN A TWO PIECE (MALE-FEMALE) MALLEABLE PLASTIC CASING FILLED WATERPROOF SEALANT.
- 11. LOW HEAD DRAINAGE**
THE CONTRACTOR SHALL INSTALL IN-LINE LOW HEAD DRAINAGE VALVES AT IRRIGATION HEADS OR AS INDICATED ON THE PLAN (S) WHERE NECESSARY TO PREVENT LOW HEAD DRAINAGE AT NO ADDITION COST TO THE CITY.
- 12. CONTROLLER CHARTS**
THE CONTRACTOR SHALL PROVIDE TWO SETS OF THE CONTROLLER CHARTS SHOWING THE APPROVED AS-BUILT IRRIGATION PLANS. THE CHARTS SHALL BE DONE ON HALF SIZE PHOTOGRAPHIC REPRODUCTION OF THE APPROVED IRRIGATION AS-BUILT PLANS AND SHALL REFLECT ALL AS-BUILT DATA. EACH STATION SHALL BE SHOWN IN A DIFFERENT COLOR AND CONTROL WIRE LOCATIONS SHALL BE INDICATED. THE COMPLETE PLAN(S) SHALL BE LAMINATED ON EACH SIDE WITH 20 MIL ACRYLIC PLASTIC SHEET. A 3/4" BRASS GROMMET SHALL BE PLACED IN EACH TOP CORNER. THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE AS-BUILT PLANS PRIOR TO PROCEEDING WITH THE PLASTIC LAMINATION.



THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS
GENERAL MANAGER: MICHAEL A. SHULL
PROJECT LANDSCAPE ARCHITECT: CHAD BARNES
ASSISTANT GEN. MANAGER: RAMON BARRAJAS
LIC. NO. 888
LIC. NO.
DATE



PROJECT NAME:
Trinity Skate Park
ADDRESS:
2415 Trinity St. Los Angeles, CA 90011

REVISIONS:	DATE:

PLAN NAME:
IRRIGATION DETAIL

DRAWN BY: [NAME]
APPROVED BY: [NAME]

SCALE: [SCALE]
ISSUE DATE: [DATE]

PRJ # [PRJ #]
FILE NO. [FILE NO.]

DRAWING NO.
LS-10
SHEET 15 OF 16 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS PLAN SHEET.



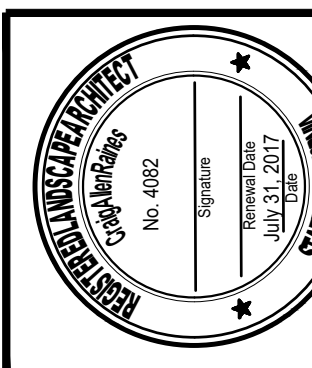
TRINITY SKATE PARK

PERSPECTIVE

CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARK



THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS
GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARRAJAS
PROJECT LANDSCAPE ARCHITECT: CRAIG BARNES LIC. NO. 8882
PROJECT ENGINEER: LIC. NO. _____ DATE: _____
AS-BUILT DRAWN BY: _____



PROJECT NAME:
Trinity Skate Park
ADDRESS:
2415 Trinity St. Los Angeles, CA 90011

REVISIONS:	DATE:
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PLAN NAME:
PERSPECTIVE

DRAWN BY: _____ APPROVED BY: _____
SCALE: _____ ISSUE DATE: _____
PRJ # _____ FILE NO. _____
DRAWING NO.
LS-14
SHEET OF SHEETS



PARKPROUDLA

Trinity Recreation Center Skate Park Existing Site Photos