

BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY OF LOS ANGELES



NOT FOR CONSTRUCTION

PROJECT TEAM

OWNER: DEPARTMENT OF PUBLIC WORKS
BUREAU OF SANITATION
1149 S. Broadway Street
Los Angeles, CA 90015

CLIENT: DEPARTMENT OF PUBLIC WORKS
BUREAU OF SANITATION
Enrique C. Zaldivar, Director
1149 S. Broadway Street
Los Angeles, CA 90015

COUNCIL DISTRICT 7: COUNCIL DISTRICT OFFICE 7
Richard Alarcon, Councilmember
200 N. Spring Street, Room 470

PROJECT MANAGEMENT: DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL DIVISION
1149 South Broadway Street, Suite 830
Los Angeles, CA 90015
Principal Architect: Mahmood Karimzadeh, A.I.A.
Project Manager: Renee Curtis
T: 213.485.4299
F: 213.485.4836

DESIGN: DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL DIVISION
1149 South Broadway Street, Suite 830
Los Angeles, CA 90015
Principal Architect: Mahmood Karimzadeh, A.I.A.
Landscape Architect: Nishith Dhandha

BID AND AWARD: DEPARTMENT OF PUBLIC WORKS
PROJECT AWARD AND CONTROL DIVISION
Division Engineer: Ted Allen

CONSTRUCTION MANAGEMENT: DEPARTMENT OF PUBLIC WORKS
CONSTRUCTION MANAGEMENT DIVISION
200 North Spring Street, Suites 1400/1725
Los Angeles, CA 90012
Group Manager: Jose Fuentes


SURVEY: DEPARTMENT OF PUBLIC WORKS
SURVEY DIVISION
Division Engineer: Tony Pratt
Anthony.Pratt@lacity.org



2. GRID H-7

VICINITY MAP

18

CITY OF LOS ANGELES	DEPARTMENT OF PUBLIC WORKS	BUREAU OF ENGINEERING	 ENGINEERING <small>Serving the People of Disturbance the Future</small>																														
<div style="display: flex; justify-content: space-between;"> <div> WORK ORDER NO. <div style="border: 1px solid black; padding: 2px; font-weight: bold; font-size: 1.2em;">E1906881</div> </div> <div> PLAN FILE NO. <div style="border: 1px solid black; padding: 2px; text-align: center;">---</div> </div> </div>		<div style="display: flex; justify-content: space-between;"> <div> DATE: _____ BY: _____ </div> <div> REVISIONS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 5%;">Δ</td><td style="width: 15%;">NO.</td><td style="width: 15%;">REVISIONS:</td><td style="width: 15%;">DATE:</td><td style="width: 15%;">BY:</td></tr> <tr><td>Δ</td><td></td><td></td><td></td><td></td></tr> <tr><td>Δ</td><td></td><td></td><td></td><td></td></tr> <tr><td>Δ</td><td></td><td></td><td></td><td></td></tr> <tr><td>Δ</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="2"></td><td>WORK ACCEPTED</td><td colspan="2">SERIAL NO.</td></tr> </table> </div> </div>		Δ	NO.	REVISIONS:	DATE:	BY:	Δ					Δ					Δ					Δ							WORK ACCEPTED	SERIAL NO.	
Δ	NO.	REVISIONS:	DATE:	BY:																													
Δ																																	
Δ																																	
Δ																																	
Δ																																	
		WORK ACCEPTED	SERIAL NO.																														
CITY OF LOS ANGELES		BUREAU OF ENGINEERING																															
CLIENT: BUREAU OF SANITATION DIRECTOR: ENRIQUE C. ZALDIVAR		LA DPW																															
PROJECT: LOPEZ CANYON EQUESTRIAN STAGING AREA		ENGINEERING																															
ADDRESS: 11950 LOPEZ CANYON ROAD, LOS ANGELES, CA 90043		ENGINEERING																															
DEPUTY CITY ENGINEER / PROGRAM MANAGER _____		ENGINEERING																															
CITY ENGINEER _____		ENGINEERING																															
DATE _____		ENGINEERING																															
DATE _____		ENGINEERING																															
INDEX NO. _____		ENGINEERING																															
BUILDING NO. _____		ENGINEERING																															
XX/XX/XX		ENGINEERING																															

ONLINE

ASPHALT CONCRETE
 ATRIUM DRAIN/AREA DRAIN
 AMPERES
 AMERICAN WIRE GAUGE
 BOTTOM OF CURB/BEGIN CURB
 BOUNDARY
 BUILDING
 BENCH MARK
 BACK OF WALL
 BACK OF CURB
 BOTTOM OF STEP
 BOTTOM OF WALL
 COMPACT
 CATCH BASIN
 CENTER TO CENTER
 CURB FACE
 CENTER LINE
 CONCRETE MASONRY UNIT
 CONCRETE
 CONSTRUCTION/CONSTRUCT
 CONTINUOUS
 DECK DRAIN
 DEMOLITION
 DOUBLE STAKE
 DETAIL
 DRINKING FOUNTAIN
 DIAMETER
 DUCTILE IRON PIPE
 DOWN
 DEPARTMENT OF TRANSPORTATION
 DRAWING
 DEPARTMENT OF WATER AND POWER
 DRIVEWAY
 EFFLUENT WATER
 ELEVATION
 ELECTRIC/ELECTRICAL
 END OF CURVE
 EX ELEVATION
 NEW CONSTRUCTION ELEVATION
 ENCLOSURE
 EQUAL
 EXPANSION JOINT
 EXISTING
 END OF CURB
 FLOW LINE
 FINISHED
 FACE OF CURB
 FACE OF WALL
 FINISHED FLOOR
 FINISHED GRADE
 FINISHED SURFACE
 FINISHED FLOOR ELEVATION
 FLOOR DRAIN
 GAUGE
 GALVANIZED
 GALLON(S)
 GRADE BREAK
 GROUND COVER
 GALLONS PER MINUTE

GATE VALVE
 HOSE BIB
 HIGH POINT
 INSIDE DIAMETER
 INVERT ELEVATION
 IRRIGATION
 LANDSCAPE ARCHITECT
 LOW POINT
 POUNDS
 LANDSCAPE
 MAXIMUM
 MAINTENANCE
 MANUFACTURER
 MINIMUM
 NOT IN CONTRACT
 ON CENTER
 OUTSIDE DIAMETER
 PLANTING AREA
 PULL BOX
 PROPERTY LINE
 POLY VINYL CHLORIDE
 POINT OF BEGINNING
 POINT OF CONNECTION
 POWER POLE
 POUNDS PER SQUARE INCH
 POTABLE WATER
 QUICK COUPLER
 RADIUS "R"
 RECREATION AND PARKS DEPARTMENT
 RIM ELEVATION
 REMOTE CONTROL VALVE
 RIGHT OF WAY
 REFERENCE LINE
 REINFORCED
 REQUIRED
 SCHEDULE
 SQUARE FEET
 SINGLE STAKE
 SHEET
 SCORE LINE
 SEWER MAINTENANCE HOLE
 SPECIFICATION
 STATION
 STANDARD
 SHUT OFF VALVE
 SIGNAL
 TOP OF FOOTING
 TYPICAL
 TOP OF PAVING
 TOP OF CURB
 TOP OF STEP
 TOP OF WALL
 VOLTS
 WITH
 WITHOUT
 WORK ORDER
 WEAKENED PLANE JOINT
 YARDS

PROJECT DESCRIPTION

1. Installation of a new aggregate surface staging area for equestrian loading and unloading.
2. Installation new horse and pedestrian pathways.
3. Installation of new picnic tables, drinking fountain, landscaping and irrigation.
4. Installation of new horse waterer and equestrian hitching posts.

SHEET INDEX

G001	COVER SHEET
G002	GENERAL NOTES

L001	LANDSCAPE CONSTRUCTION NOTES, SHEET 1
L002	LANDSCAPE CONSTRUCTION NOTES, SHEET 2
L003	LANDSCAPE CONSTRUCTION NOTES, SHEET 3
L004	LANDSCAPE CONSTRUCTION NOTES, SHEET 4
L101	SITE SURVEY, SHEET 1
L102	SITE SURVEY, SHEET 2
L201	DEMOLITION PLAN, SHEET 1
L202	DEMOLITION PLAN, SHEET 2
L301	GRADING AND DRAINAGE PLAN, SHEET 1
L302	GRADING AND DRAINAGE PLAN, SHEET 2
L401	CONSTRUCTION PLAN, SHEET 1
L402	CONSTRUCTION PLAN, SHEET 2
L403	CONSTRUCTION DETAILS, SHEET 1
L404	CONSTRUCTION DETAILS, SHEET 2
L405	CONSTRUCTION DETAILS, SHEET 3
L501	LAYOUT PLAN, SHEET 1
L502	LAYOUT PLAN, SHEET 2
L601	IRRIGATION PLAN, SHEET 1
L602	IRRIGATION PLAN, SHEET 2
L603	IRRIGATION DETAILS, SHEET 1
L604	IRRIGATION DETAILS, SHEET 2
L701	PLANTING PLAN, SHEET 1
L702	PLANTING PLAN, SHEET 2
L703	PLANTING DETAILS

BUREAU OF ENGINEERING

CLIENT: BUREAU OF SANITATION

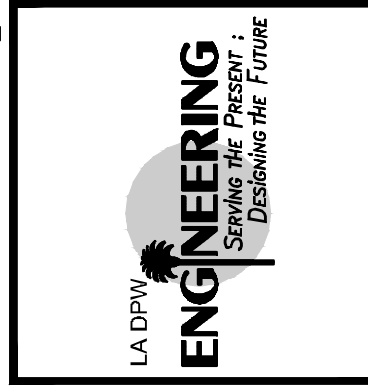
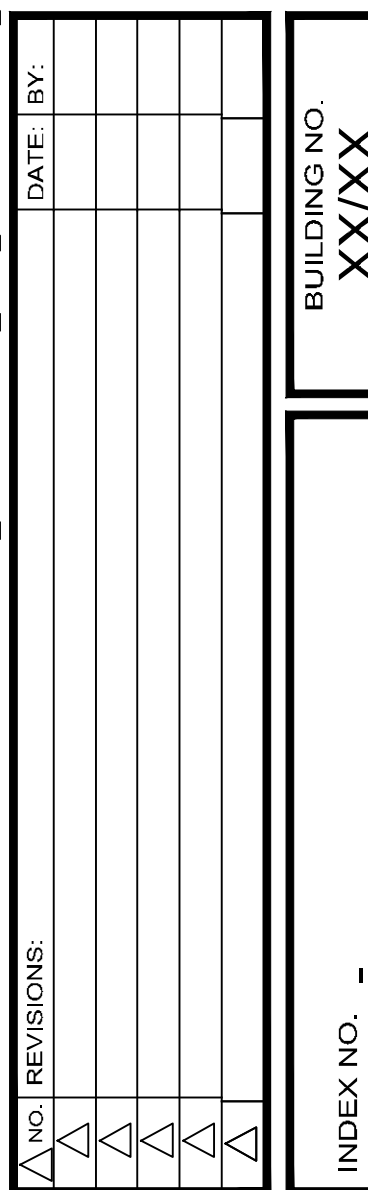
11950 LOPEZ CANYON ROAD,
LOS ANGELES CA 91342

FILE NO.

1000

SHEET SHEETS

PLOTTED: 5/18/2012 9:30 AM



NOT FOR
CONSTRUCTION

REVISION DATE: 5/17/2012 9:55 AM
FILE: D:\LOPEZ\ON-EQUESTRIAN-HORSE-TRAIL\DRAWINGS\GEN_SPECS.DWG
REVISION DATES
(DESIGN STAGE ONLY)

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 CONSTRUCTION NOTES

GENERAL

The General Conditions and General Requirements, 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 the General Conditions and General Requirements and the Standard Specifications for Public Works Construction, the General Conditions and General Requirements shall take precedence.

Where conflicts occur between these Specifications and the SSPWC these SPECIFICATIONS shall take precedence.

Subsections included within these SPECIFICATIONS 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.

PLANS AND SPECIFICATIONS

The General Contractor shall be responsible for issuing a complete set of plans and specifications to all Sub-Contractors.

Indicates approvals or submittals, including items to be turned over at the pre-operational final. All approvals and submittals shall be transmitted to the Project Manager.

Indicates required field inspections with the Contract Administration Inspector and the Project Manager. Notify all party's three (3) days prior to the required inspection.

SCHEDULE OF WORK

The Contractor shall submit a Schedule of Work for approval to the Project Manager prior to the commencement of work. The Project Manager, Contractor and Department Maintenance Personnel shall coordinate the Contractor's schedule of work with ongoing Department maintenance of the facility outside the work area and the Contractor's maintenance of the area within the work area, as defined in the maintenance portion of the Landscape Planting Section. The Contractor shall schedule all work in accordance with the General Conditions Article 12. The work area shall be as defined on the Title Sheet, or as indicated on the Plans by means of a contract limit line.

JOB START MEETING

The Contractor shall schedule a Job Start Meeting with the Project Manager after receipt of the Notice To Proceed. This meeting shall include the following participants: the Project Manager, Contract Administration Inspector (BCA), Landscape Architect, and Region Maintenance personnel, prior to the commencement of meeting to review the content of the plans and discuss the coordination of the project with the Department's operations at the project site. The pre-construction meeting can be held at the same time as the Job Start Meeting at the Contractors discretion.

INSPECTIONS

All work and materials are subject to inspection and approval by the Project Manager. Any work done without proper inspection will be subject to rejection. As indicated in Section 2-11 of the Standard Specifications for Public Works Construction.

The Contractor shall notify the Contract Administration Inspector and Project Manager three (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 Project Manager for approval prior to the inspection.

2. **TREE TAGGING:** Tagging of 24" box or larger trees at the grower with Recreation and Parks tags. This inspection will be for compliance with the caliper, height and spread requirements given on the plant legend and general health and appearance of plants.

3. **ON-SITE PLANT MATERIAL INSPECTION:** The inspection of all plant materials under 24" box size at the job site. This inspection will be for compliance with the caliper, height and spread requirements given on the plant legend and to confirm the general health and appearance of plants. The Contractor shall also stake all tree planting locations at this time for approval.

4. **IRRIGATION PRESSURE AND COVERAGE TESTS:** The pressure test shall take place under the direction of the Contract Administration Inspector. Following the pressure test the entire irrigation system shall be tested for coverage under the direction of the Project Manager. The coverage test shall cycle through each station of the irrigation system from the automatic controller for all new or revised irrigation systems. Existing irrigation systems shall be tested prior to new construction. The BCA Inspector, Project Manager, Contractor and Region maintenance shall be notified three (3) days before the scheduled test.

5. **FINISH GRADE REVIEW:** For all finish grades in planting areas following rolling and prior to turf or landscape planting.

6. **PRE-FINAL INSPECTION:** Pre-final inspection shall be in accordance with Article 46 of the General Conditions.

7. **CONTRACT FINAL INSPECTION:** Contract final inspection shall be in accordance with Article 47 of the General Conditions.

8. **IN-PLANT INSPECTION:** Contractor shall be responsible for scheduling all in-plant inspections with the Bureau of Contract Administration plant inspection. In-plant inspection shall be required, but not limited to, the following items:

- | | |
|------------------------------------|---|
| 1. Galvanizing | 6. Fabrication of tubular steel fencing |
| 2. Chain link fabric | 7. Painting of tubular steel fencing |
| 3. Grates and frames | 8. Painting of tubular steel fencing |
| 4. Portland cement concrete & base | 9. Fabrication of "Rino" gates |
| 5. Asphalt concrete and base | 10. Painting of "Rino" gates |

MATERIALS SUBMITTAL

The Contractor shall make required submittals in accordance with Article 10 of the General Requirements.

RECORD DRAWINGS (AS-BUILTS) SUBMITTALS

Record drawings shall be in accordance with Article 8 of the General Requirements

LAYOUT OF WORK, GRADE SHEET APPROVAL

All spot elevations, grading contour lines, and grades shown on the plans for grading, pavement and drainage improvements shall be staked by a California licensed Land Surveyor provided by the Contractor at no additional cost to the City. 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 Project Manager for approval one week in advance of any grading operations.

UNDERGROUND SUBSTRUCTURES

The construction 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** prior to commencing any excavation.

TREE PROTECTION - EXISTING TREES

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

- 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.
- All work shall be in accordance with the City of Los Angeles Native Tree Ordinance.
- No chemical herbicides are to be used within 100 feet of the tree's drip line.
- Do not nail grade stakes or anything else to trees.
- Any approved pruning shall be authorized by the Project Manager and done by a qualified Arborist.
- No roots over two (2) inches in diameter are to be cut during the course of construction without the approval of the Project Manager.
- No Irrigation trenching shall pass closer than eight (8) feet of the base of any tree.
- If any contractor is unsure of a tree to remain in place or to be removed they are to contact the Project Manager immediately and prior to taking any action.

GENERAL EARTHWORK

METHODS

The Grading Plan when approved by the District Engineer 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 symbol . The BCA Inspector may modify the exact location in the field, depending on field conditions, if permission is granted from the Project Manager. 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 Project Manager prior to any grading operations. The Contractor shall be required to provide an Agricultural Suitability soil test to establish the suitability of 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 Project Manager.

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.

Ground water conditions encountered during the course of the work shall be brought to the attention of the District Engineer. Geological reports shall be provided when requested by the District Engineer and Construction Division. Geology and Soils Engineering Section.

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 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 City Engineer for approval on or before September 15 or at least 30 days before any grading is performed during said period.

DISTRICT ENGINEER _____ DATE _____

"General Specifications for all Grading Plans" - Building and Safety form B-164 is hereby made a part of these plans.

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 Engineers, 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.

CONCRETE

All concrete construction shall be as specified in this Section unless specified otherwise in these Specifications.

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 BCA Inspector, (201-1.1.2).

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 Trafficalk-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 Sealtight 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 Sealtight Co., or an approved equal, (201-3).

COLORED 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.

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 symbol ⊕ The BCA Inspector may modify the exact location in the field, depending on field conditions, if permission is granted from the Project Manager. 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 Project Manager 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 the applicable details.

CONCRETE SURFACE FINISHING

Concrete walks, pads, or mow strips shall have a medium broom finish, unless otherwise noted on the plans. The Contractor shall prepare a minimum three foot by three foot sample for approval by the Project Manager 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 BCA Inspector.

COLORED CONCRETE ADMIXTURES

Colored concrete admixtures shall be formulated and mixed according to manufacturer's printed instructions. Calcium chloride set-accelerators shall not be used.

PAVEMENT MARKINGS

Paint for parking stalls and game courts shall be regular dry type non-reflective paint, applied to a wet film thickness of 7 mil. Paint shall be Zone-Loc, Traffic Line Paint, as manufactured by Morton, or an approved equal, in the specified color, (310-5.6 and 210.6)

3. NATURAL AGGREGATE PAVEMENT SYSTEM

MATERIALS

"Stalok Aggregate Surface for Roads, Firelanes, Driveways and Parking Lots" or approved equal, manufactured by Stabilizer Solutions, Inc. 205 South 28th St., Phoenix, AZ 85034; phone (602) 225-5900, (800) 336-2468; fax (602) 225-5902; website stabilizersolutions.com; email jphubbs@stabilizersolutions.com. Distributor: West Coast Sand and Gravel, 800-522-0282.

Stalok aggregate binding is a solely owned patented process.

Blending procedures are performed only by a licensed Stalok blender and can only be sold through licensed Stalok Dealers.

AGGREGATE SPECIFICATIONS

Crushed stone shall consist of inert materials that are hard, durable, with stone free from surface coatings and deleterious materials. Gradation requirements shall be as follows:

U.S. Sieve No.	Percent Passing by Weight
# 1/2"	98-100
# 3/8"	90-100
# 4	65-80
# 8	48-63
# 16	40-49
# 30	30-40
# 50	20-27
# 100	10-18
# 200	10-12

- R-value minimum of 70 determined by ASTM D 2488 Methodology (R-value is a measure of wear resistance).
- Sand equivalent - an engineering measurement of the proportion of sand to silt and clay, will stay at a range of 30-55. As determined by ASTM D 2419 methodology.

METHODS

PERFORMANCE REQUIREMENTS

The following standards and definitions are applicable to the work of this Section to the extent referenced herein:

- Standard Specifications: Highway Department, Standard Specifications for Highways and Bridges, latest edition.
- ASTM: American Society for Testing and Materials.
- AASHTO: American Association of State Highway and Transportation Officials.

SAMPLES AND SUBMITTALS

- Sieve analysis of aggregate for Stalock aggregate surfacing for road and firelanes.
- Sample of aggregate for strength and color for Stalok aggregate surfacing - road and firelane.
- Construction Samples:
Stalok aggregate road and firelane surfacing: Construct a 5' x 5' sample of finished path as directed by the Project Manager on site.
 - Schedule mock-up construction so that mock-up can be accepted a minimum of 10 days prior to the application of paving surfaces represented by the mock-up.
 - Locate mock-up panel(s) in areas as directed by theProject Manager.
 - Continue to construct mock-ups until acceptable mock-up is produced (at no cost to the City). Acceptable mock-up shall be standard for texture, color and workmanship.
 - Use same setting bed and joint mixes used in accepted mock-up in final work.
 - Protect accepted mock-ups from damage until completion and acceptance of the work represented by the mock-ups.
 - Remove mock-up panel(s) from the site at completion of the project, unless otherwise instructed by Project Manager.

QUALITY ASSURANCE

Installer Qualifications: Installer to provide evidence to indicate successful experience in installation of Stalok aggregate surfacing.

PREPARATION

Pre-soak base material with water prior to installing Stalok Aggregate Paving material.

BLENDING

Stalok aggregate binding is a solely owned patented process. Blending procedures are performed only by a licensed Stalok blender and can only be sold through licensed Stalok Dealers.

SUBGRADE AND COMPACTION

Sub-grade under all Stalok natural paving systems 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 symbol ⊕ The BCA Inspector may modify the exact location in the field, depending on field conditions with consent of the Project Manager. Results of the compaction test shall be submitted to the Project Manager for approval. The total number of compaction test shall be no less than two (2) or the number shown on the plans. Minimum compaction for Stalok surfaces shall be 90% relative compaction.

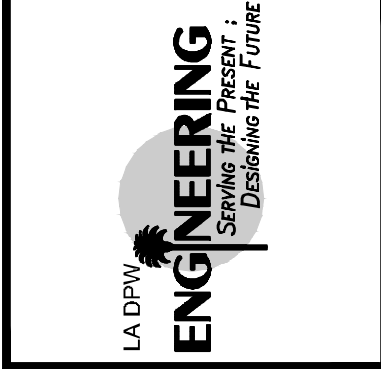
Subgrade Preparation:

- Refer to Geotechnical Report for subgrade preparation prior to placement of fill or aggregate base.
- Grade subgrade with uniform slope between points where elevations are given.
- Grade subgrade surface to within 0.05 foot of finish grade minus aggregate base and aggregate paving thickness.
- Fill and compact any depressions and remove loose material to finish true to line and grade, presenting a smooth, compacted and unyielding surface, except where indicated otherwise.
- Remove debris, loose dirt and other extraneous materials.
- All proper drainage design elements should be in place. Ditches, drains, and drain pipes should be installed to assure protection of the pavement and base from cross flows of water. All water flow should be directed off of and away from the pavement and base.

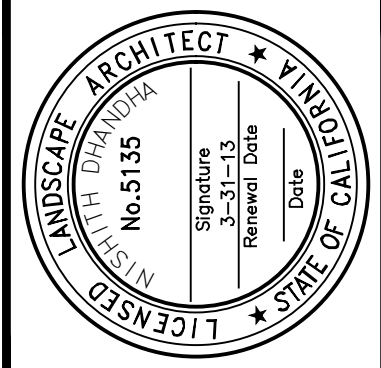
EDGING MATERIALS

Edging materials must be in place prior to the beginning of paving placement. The natural pavement surface have a crown in the middle or a slope from one side to the other, see plans. The Stalok natural pavement compacted surface should be no less than 1/8" above the edging material to assure proper drainage.

BUREAU OF ENGINEERING



NO	REVISIONS:	DATE	BY
1			
2			
3			
4			
5			
BUILDING NO.		XXXX	
INDEX NO.		-	



DEPARTMENT OF PUBLIC WORKS

GARY LEE MOORE, P.E.		CITY ENGINEER	
ARCHITECTURAL DIVISION		DATE:	
ARCHITECT:	NSMTH DHANDHA	LIC. NO.:	5135
DESIGNED BY:	NSMTH DHANDHA		
DRAWN BY:	NSMTH DHANDHA		
CHECKED BY:	JANE ADRIAN		
APPROVED BY: MAHMOOD KARIMZADEH, A.I.A., PRINCIPAL ARCHITECT			

SHEET TITLE: LANDSCAPE CONSTRUCTION NOTES, SHEET 1	
PROJECT:	LOPEZ CANYON EQUESTRIAN STAGING AREA
ADDRESS:	11950 LOPEZ CANYON ROAD, LOS ANGELES, CA 91342

WORK ORDER NO. E1906881	
FILE NO. ---	
DRAWING NO. L001	
SHEET	SHEETS
OF	

PLOTTED: 5/18/2012 9:30 AM

REVISION DATE: 5/17/2012 9:55 AM
FILE: D:\LOPEZ\ON\EQUESTRIAN\HORSE TRAIL\DRAWINGS\LCE_GEN_SPECS.DWG
REVISION DATES
(DESIGN STAGE ONLY)

A

B

C

D

E

F

G

H

J

K

L

M

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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Remove all watering basins around trees planted in lawn areas at the end of the maintenance period. All trees planted in lawn areas shall have a 36 inch diameter unplanted area around each tree.

METHOD "A" LAWN PLANTING - REPAIR, SEEDING

Irrigation trenches shall be fully compacted and the grade brought flush with the adjacent undisturbed finish grade. Irrigation trench areas and areas where equipment has damaged the existing lawn shall be seeded per this section.

Sow seed at a rate of three (3) pounds of common Bermuda per 1,000 sq. ft. and six (6) pounds of perennial ryegrass per 1,000 sq. ft. Mulch all seed with 1/4"(or 3/4 cubic yard per 1,000 sq. ft.) of Bio-organic Finale.

Alternate method: Existing sod may be carefully cut, removed and reused to sod trenches after backfilling and densification.

METHOD "B" LAWN PLANTING, HYDROSEEDING

The lawn seed mix for lawn planting shall contain the following materials at the rates specified:
A.Mulch Fiber - 1,500 lbs./acre (.0345 Lbs./Sq.Ft.)
B.Stabilizer - 120 lbs./acre, (.0028 Lbs./Sq.Ft.)
C.Fertilizer - Hydroblend, at 3,000 lbs. per acre, (.0688 Lbs./Sq.Ft.).
D.Seed by Weight:
- 6 lbs. Derby Supreme, perennial rye grass (.006 lbs./sq. ft.)
- 3 lbs. Common Bermuda grass, (1 ½ lb. hulled & 1 ½ lb. unhulled)
per 1,000 sq. ft., (.0015 lbs./sq. ft., hulled & unhulled)

The Contractor shall supply a delivery receipt to the BCA Inspector certifying conformance with the specified hydroseed mix and indicating that the slurry has not been mixed for longer than two hours. Slurry which has been mixed longer than two hours shall be recharged with 50 percent more of the specified seed mix, at the Contractor's expense, (308-4.8.2(b)). Delivery tickets shall be forwarded to the Project Manager.

SOD LAWN

The sod shall be machine cut to between 1/4" and 5/8" thick, not including top growth or thatch. Sod shall be laid on a grade which has been amended and finish graded in accordance with the topsoil preparation and finish lawn grading specifications of the Specifications. The sod strips shall be laid tight against the adjacent strip with adjacent ends forming a running bond pattern. After laying the sod, roll with a minimum 300 lb. water ballast roller and irrigate.

The sod shall be _____
Available at _____

MULCHING

All planting areas except lawn and lawn-like substitute (i.e. yarrow lawns) shall receive a minimum two (2) inch deep layer of tree chip mulch per the Planting Details and these Landscape Construction Notes. Mulch shall be spread evenly throughout planting beds and tree watering basins. Do not bury ground cover.

MAINTENANCE AND PLANT ESTABLISHMENT

The Contractor 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 picking up trash and emptying trash cans daily, 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 sys

The plant establishment period shall be for a period of 49 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 Project Manager. 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. The lawn shall not be allowed to grow higher than three (3) inches and shall be mowed to a one and one half (1 ½) inch height. The lawn shall be mowed at least twice during the plant establishment period.

The entire area of work shall be kept free of weeds, trash or other debris during the maintenance period. The Contractor shall maintain the area of work at maximum seven (7) day intervals and perform any needed mowing of existing lawns within the area of work when the grass reaches a four (4) inch height.

Five weeks after lawn seeding the Contractor shall apply a slow release 38-0-0 granular fertilizer at a rate of 15 pounds per 1000 sq. ft. to all lawn areas. The fertilizer shall be applied in the presence of the BCA Inspector.

The Contractor 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 and Specifications. All extensions of the plant establishment period shall be subject to the assessment of liquidated damages, (308-6).

11. BASEBALL FIELDS

MATERIALS

INFIELD MIX

The top 4 inches of the skinned infield shall be "PRO RED" STABILIZED INFIELD MIX as distributed by Stabilizer Solutions, Inc. (800) 336-2468 or an approved equal. The infield mix shall consist of crushed aggregate screenings, with the following gradations per ASTM F1632 methodology:

US SIEVE SIZE	% RETAINED	US SIEVE SIZE	% RETAINED
#18	23.4%	#140	8.4%
#35	20.8%	#270	3.9%
#60	12.6%		

Sand equivalent as determined by ASTM D2419 shall have a minimum of 30. R-Value as determined by ASTM D 2488 shall have a minimum of 70.

Stabilizer shall be "Stabilizer" (TM), a non-toxic, colorless, odorless, non-staining concentrated organic powder that binds soil and crushed aggregate screenings together, creating a natural appearance and firm surface as distributed by Stabilizer Solutions (800) 336-2468 or approved equal. Product shall have 64% pre-consumer recycled content.

METHODS

The Stabilized Infield Mix shall be premixed by the distributor when delivered to the site.

PLACEMENT

After pre-blending, place the Stabilized Infield Mix on prepared sub-grade compacted to 90% relative compaction. Pre-soak base material with water prior to installing Stabilized Infield Mix and allow to dry. Level to desired grade and cross section of 4" minimum depth. Allow for an approximate 1" cushion for compaction. A 10' by 10' area centered over each future base pad location shall be six (6) inches deep in lieu of the standard four (4) inches depth for the rest of the infield. Grade infield area so that all areas achieve a 1% minimum slope unless indicated differently in the Construction Drawings, and no depressions are created that can retain water.

WATERING

Water heavily to achieve full depth moisture penetration of the entire Stabilized Infield Mix Profile. Stabilizer is water-activated: to achieve adequate saturation of Stabilized Infield Mix Profile, a minimum of 25 to 45 gallons of water per ton must be applied. During water application randomly test for penetration depth using a probing device until the entire profile is adequately wetted.

COMPACTION

Upon thorough moisture penetration, compact aggregate screenings to 85% relative compaction with a min. 1,000 lb. static drum roller. Do not begin compaction for 6 hours after placement. Compaction must be completed within 24 hours of wetting.

Take care in compacting Stabilized Infield Mix when adjacent to planting and irrigation systems. Hand tamping with 8" or 10" hand tamp is recommended in areas where large equipment could damage irrigation or hardscape.

INSPECTION

The finished surface of Stabilized Infield Mix shall be smooth, uniform and solid. There shall be no evidence of chipping or cracking. Cured and compacted Infield shall be firm throughout profile with no spongy areas. Loose material shall not be present on the surface. Any significant irregularities in the surface shall be repaired to the uniformity of entire installation.

12. SITE FURNISHINGS

METHODS

Install all site furnishings per the manufacturer's specifications and installation instructions. The Contractor shall submit the installation instructions, for each different piece of equipment installed, as part of the materials approval list.

END OF SPECIFICATIONS

NOT FOR CONSTRUCTION

BUREAU OF ENGINEERING

LA DRW
ENGINEERING
Serving the People
Distilling the Future

REVISIONS:

NO	DATE	BY
△		
△		
△		
△		
△		

BUILDING NO. XXXX

INDEX NO. -

LANDSCAPE ARCHITECT
NISHITH DHANDHA
No.5135
Signature
Retained Date
Date

GARY LEE MOORE, P.E.
ARCHITECTURAL DIVISION
ARCHITECT: NISHITH DHANDHA
DESIGNED BY: NISHITH DHANDHA
DRAWN BY: NISHITH DHANDHA
CHECKED BY: JANE ADRIAN
APPROVED BY: MAHMOOD KARIMZADEH, A.I.A., PRINCIPAL ARCHITECT

CLIENT: BUREAU OF SANITATION
DIRECTOR: ENRIQUE C. ZALDIVAR

SHEET TITLE: LANDSCAPE CONSTRUCTION NOTES
SHEET 4
PROJECT: LOPEZ CANYON EQUESTRIAN STAGING AREA
ADDRESS: 11950 LOPEZ CANYON ROAD,
LOS ANGELES, CA 91342

WORK ORDER NO.
E1906881
FILE NO.

DRAWING NO.
L004
SHEET OF SHEETS

REVISION DATE: 5/17/2012 9:55 AM
FILE: D:\LOPEZ\ON\EQUESTRIAN\HORSE TRAIL\DRAWINGS\LCE_GEN_SPECS.DWG
REVISION DATES
(DESIGN STAGE ONLY)

A

B

C

D

E

F

G

H

J

K

L

M

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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Sheet Version 2.2

1

2

3

4

5

6

7

8

9

10

11

12

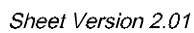
13

14

























15

16

PLOTTED: 5/18/2012 9:30 AM



LEGEND

	PA	PLANTER AREA
		LIGHT STANDARD
		TRAFFIC STANDARD
		LIGHT & TRAFFIC STANDARD PARKING METER
		ELEC. VENT
		SIGN
		FIRE HYDRANT
		GUARD POST
		POWER POLE
		GUY WIRE
		TREE- SIZE IN INCHES
		PALM TREE- SIZE IN INCHES
		

W.O. E1907351 SURVEY NO. 29052
SURVEYED BY: GOR MKRTRYAN
DATE: 09/28/2010
20 10 0 20 40 60
SCALE IN FEET
SCALE: 1"=20'
CONTOUR INTERVAL=1'

CITY OF LOS ANGELES		DEPARTMENT OF PUBLIC WORKS		BUREAU OF ENGINEERING	
VERTICAL CONTROL:		GARY LEE MOORE, P.E.		CITY ENGINEER	
HORIZONTAL CONTROL:		SURVEY DIVISION		DATE:	
SHEET TITLE:		SURVEYOR: MARK KINDIG		P.L.S.: 7605	
PROJECT:		FIELD SURVEYOR: GOR MKRTHYAN		09/28/2010	
ADDRESS:		DRAWN BY: SHAWN STEVENS		02/24/2011	
11950 LOPEZ CANYON ROAD LOS ANGELES, CA 91042		CHECKED BY: GOR MKRTHYAN		02/24/2011	
APPROVED BY:					
WORK ORDER NO.		E1907351		DATE: BY:	
DRAWING NO.		L102		NO. REVISIONS:	
SHEET		OF		SHEET	

DEMOLITION NOTES:

- ALL REMOVALS SHALL BE PROPERLY DISPOSED OF OFF-SITE.
- LOCATIONS OF EXISTING EQUIPMENT/ SITE ELEMENTS ARE SHOWN SCHEMATICALLY FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR TO VERIFY EXACT LOCATION FROM SITE SURVEY AND IN FIELD. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE PROJECT MANAGER ANY CONFLICTS.
- ALL EXISTING TREES ARE TO REMAIN UNLESS INDICATED OTHERWISE ON THE PLAN AND SHALL BE PROTECTED PER TREE PROTECTION SECTION IN THE PROVIDED LANDSCAPE CONSTRUCTION NOTES, L001.
- ALL FUNCTIONING, EXISTING UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED. ALL UTILITY AND/OR PULL BOXES TO REMAIN SHALL BE RE-SET TO NEW FINISH GRADE PER LA CITY STANDARDS.
- ALL COMPONENTS OF ADJACENT IRRIGATION SYSTEMS (VALVES, HEADS, LATERALS, CONTROL WIRING, ETC.) SHALL BE PRESERVED AND RETAINED. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ADJACENT IRRIGATION SYSTEMS AND SHALL REPAIR AT NO COST TO THE CITY.
- ALL PULL BOXES AND SPLICE BOXES, ETC. FOR ELECTRICAL SYSTEMS SHALL BE RETAINED AND PRESERVED IN EXISTING CONDITION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING COMPONENTS. MEET WITH PM PRIOR TO DEMOLITION TO VERIFY LOCATION OF ELECTRICAL SYSTEM, IF NECESSARY.
- ALL ADJACENT IRRIGATION SYSTEMS SHALL REMAIN OPERABLE DURING DEMOLITION AND CONSTRUCTION PHASE.
- ALL EXISTING SITE ELEMENTS (INCLUDING FENCING, POLES, WALLS, CONCRETE PADS, AC SURFACING) NOT INDICATED ON PLAN FOR REMOVAL SHALL BE PROTECTED IN PLACE.

KEY:

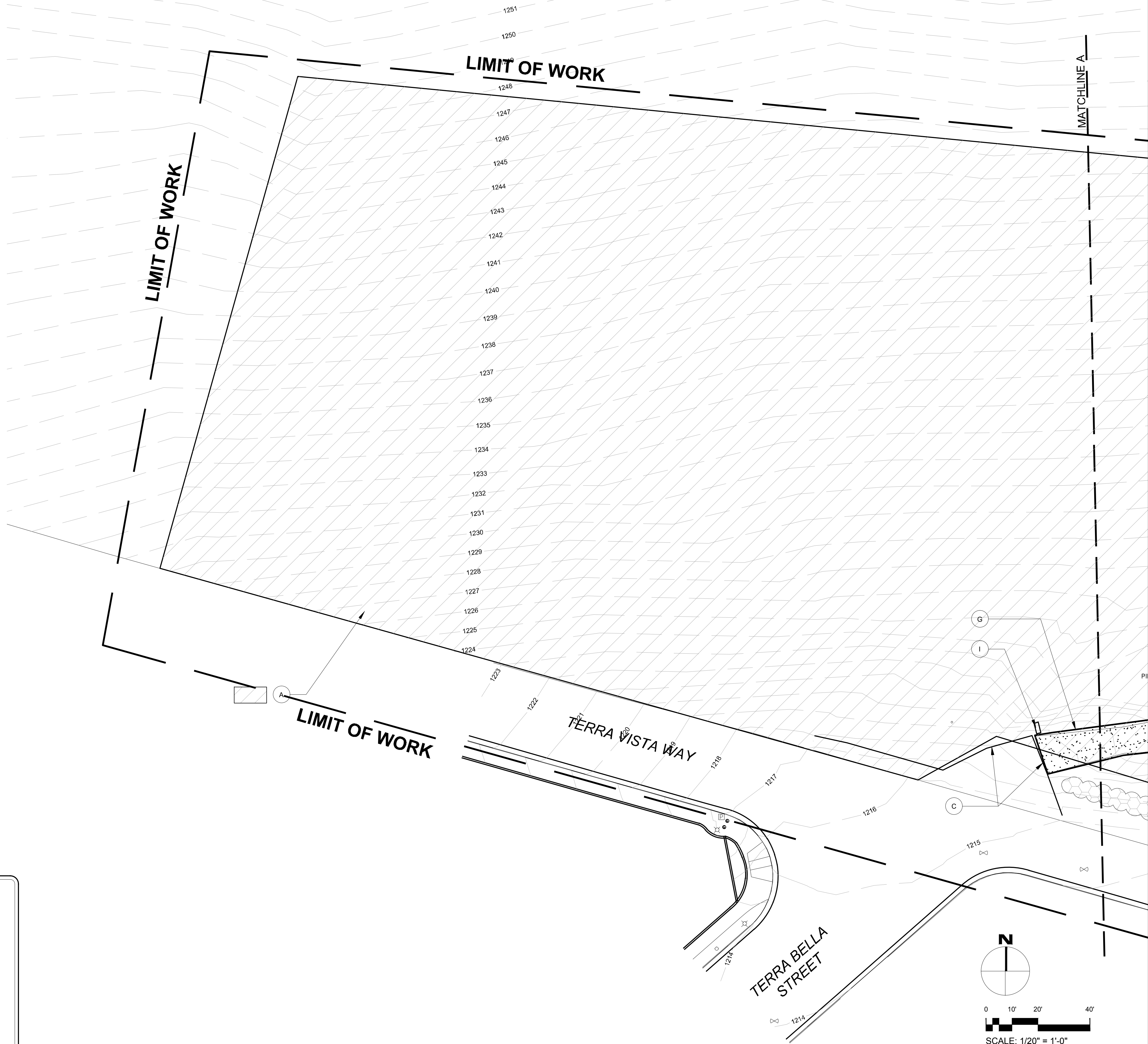
- (A) CLEAR AND SCRAPE EXISTING VEGETATION, DISPOSE OF DEBRIS PROPERLY OFF SITE.
- (B) REMOVE EXISTING TREE, DISPOSE OF DEBRIS PROPERLY OFF SITE.
- (C) PROTECT CHAIN LINK FENCE AND GATE IN PLACE.
- (D) PROTECT RIVER ROCK WALLS IN PLACE.
- (E) PROTECT EXISTING WALL IN PLACE.
- (F) PROTECT CONCRETE PAD IN PLACE.
- (G) PROTECT EXISTING DIRT ROAD SIGNATURE IN PLACE.
- (H) EXISTING UTILITY POLES AND GUY WIRES TO BE PROTECTED IN PLACE.
- (I) EXISTING AIR MONITORING UNIT TO BE PROTECTED IN PLACE.
- (J) EXISTING ROW OF BOULDERS TO BE PROTECTED IN PLACE.

LEGEND

- EXISTING VEGETATION TO BE REMOVED
- CONCRETE PAVEMENT TO BE PROTECTED IN PLACE
- DIRT ROAD SIGNATURE TO BE PROTECTED IN PLACE
- EXISTING TREE/PALM TO BE REMOVED
- EXISTING CHAIN LINK FENCE/GATE TO BE PROTECTED IN PLACE
- EXISTING BOULDERS
- EXISTING TREE TO BE PROTECTED IN PLACE
- EXISTING WALLS TO BE PROTECTED IN PLACE



NOT FOR
CONSTRUCTION



BUREAU OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS

CITY OF LOS ANGELES

LA DRW ENGINEERING Serving the People - Designing the Future	
NO REVISIONS:	DATE: BY:
Δ NO	
Δ	
Δ	
Δ	
Δ	
INDEX NO. -	BUILDING NO. XXXX

LANDSCAPE ARCHITECT * FIDUCIARY	
NSHITH DHANDHA	No.5135
Signature	Date
Retained Date	

GARY LEE MOORE, P.E. CITY ENGINEER	
ARCHITECT: NSHITH DHANDHA	LIC. NO. 5135
DESIGNED BY: NSHITH DHANDHA	
DRAWN BY: NSHITH DHANDHA	
CHECKED BY: JANE ADRIAN	
APPROVED BY: MAHMOOD KARIMZADEH, A.I.A., PRINCIPAL ARCHITECT	

CLIENT: BUREAU OF SANITATION	WORK ORDER NO. E1906881
DIRECTOR: ENRIQUE C. ZALDIVAR	FILE NO. ---
SHEET TITLE: DEMOLITION PLAN, SHEET 1	
PROJECT: LOPEZ CANYON EQUESTRIAN STAGING AREA	
ADDRESS: 11950 LOPEZ CANYON ROAD, LOS ANGELES, CA 91342	
DRAWING NO. L201	
SHEET OF SHEETS	

DEMOLITION NOTES:

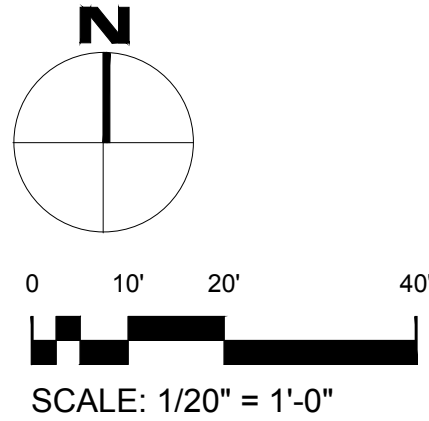
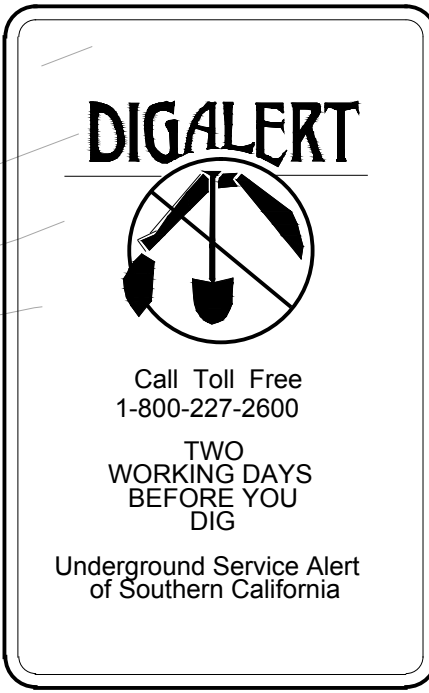
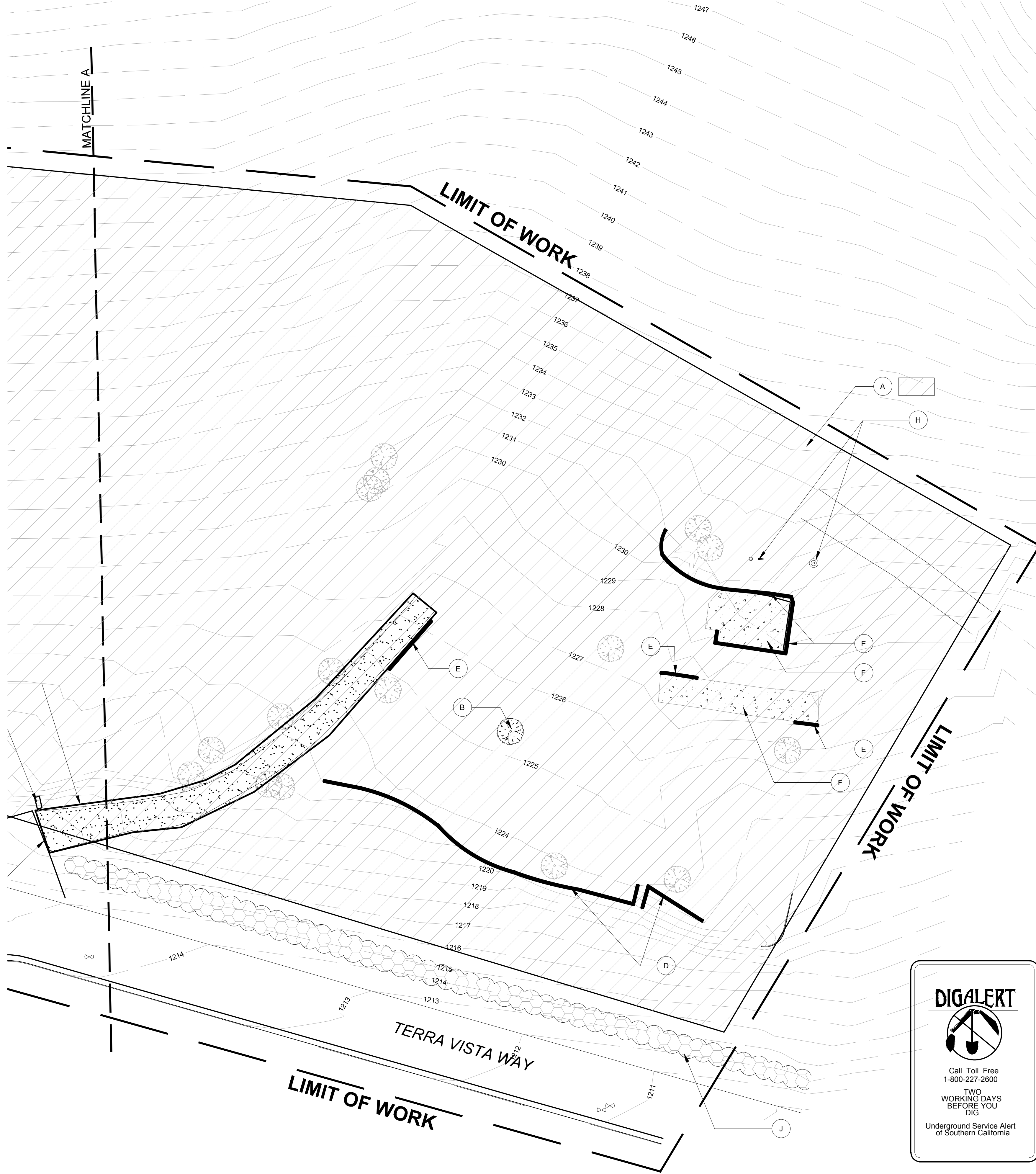
- ALL REMOVALS SHALL BE PROPERLY DISPOSED OF OFF-SITE.
- LOCATIONS OF EXISTING EQUIPMENT/ SITE ELEMENTS ARE SHOWN SCHEMATICALLY FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR TO VERIFY EXACT LOCATION FROM SITE SURVEY AND IN FIELD. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE PROJECT MANAGER ANY CONFLICTS.
- ALL EXISTING TREES ARE TO REMAIN UNLESS INDICATED OTHERWISE ON THE PLAN AND SHALL BE PROTECTED PER TREE PROTECTION SECTION IN THE PROVIDED LANDSCAPE CONSTRUCTION NOTES, L001.
- ALL FUNCTIONING, EXISTING UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED. ALL UTILITY AND/OR PULL BOXES TO REMAIN SHALL BE RE-SET TO NEW FINISH GRADE PER LA CITY STANDARDS.
- ALL COMPONENTS OF ADJACENT IRRIGATION SYSTEMS (VALVES, HEADS, LATERALS, CONTROL WIRING, ETC.) SHALL BE PRESERVED AND RETAINED. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ADJACENT IRRIGATION SYSTEMS AND SHALL REPAIR AT NO COST TO THE CITY.
- ALL PULL BOXES AND SPLICE BOXES, ETC. FOR ELECTRICAL SYSTEMS SHALL BE RETAINED AND PRESERVED IN EXISTING CONDITION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING COMPONENTS. MEET WITH PM PRIOR TO DEMOLITION TO VERIFY LOCATION OF ELECTRICAL SYSTEM, IF NECESSARY.
- ALL ADJACENT IRRIGATION SYSTEMS SHALL REMAIN OPERABLE DURING DEMOLITION AND CONSTRUCTION PHASE.
- ALL EXISTING SITE ELEMENTS (INCLUDING FENCING, POLES, WALLS, CONCRETE PADS, AC SURFACING) NOT INDICATED ON PLAN FOR REMOVAL SHALL BE PROTECTED IN PLACE.

KEY:

- A CLEAR AND SCRAPE EXISTING VEGETATION, DISPOSE OF DEBRIS PROPERLY OFF SITE.
- B REMOVE EXISTING TREE, DISPOSE OF DEBRIS PROPERLY OFF SITE.
- C PROTECT CHAIN LINK FENCE AND GATE IN PLACE.
- D PROTECT RIVER ROCK WALLS IN PLACE.
- E PROTECT EXISTING WALL IN PLACE.
- F PROTECT CONCRETE PAD IN PLACE.
- G PROTECT EXISTING DIRT ROAD SIGNATURE IN PLACE.
- H EXISTING UTILITY POLES AND GUY WIRES TO BE PROTECTED IN PLACE.
- I EXISTING AIR MONITORING UNIT TO BE PROTECTED IN PLACE.
- J EXISTING ROW OF BOULDERS TO BE PROTECTED IN PLACE.

LEGEND

- EXISTING VEGETATION TO BE REMOVED
- CONCRETE PAVEMENT TO BE PROTECTED IN PLACE
- DIRT ROAD SIGNATURE TO BE PROTECTED IN PLACE
- EXISTING TREE/PALM TO BE REMOVED
- EXISTING CHAIN LINK FENCE/GATE TO BE PROTECTED IN PLACE
- EXISTING BOULDERS
- EXISTING TREE TO BE PROTECTED IN PLACE
- EXISTING WALLS TO BE PROTECTED IN PLACE



NOT FOR
CONSTRUCTION

LA DRW

ENGINEERING

Striving for Progress -
Defining the Future

NO. 5135

Signature

Reviewed Date

DATE

BY

INDEX NO.

BUILDING NO.

REVISIONS:

NO

DATE

BY

ARCHITECT

DESIGNED BY

DRAWN BY

CHECKED BY

APPROVED BY

ARCHITECTURAL DIVISION

LIC. NO.

PROJECT

ADDRESS

WORK ORDER NO.

FILE NO.

DRAWING NO.

SHEET

OF

SHEETS

CITY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

BUREAU OF ENGINEERING

GARY LEE MOORE, P.E.

CITY ENGINEER

ARCHITECT

DESIGNED BY

DRAWN BY

CHECKED BY

APPROVED BY

ARCHITECT

DESIGNED BY

DRAWN BY

CHECKED BY

APPROVED BY

ARCHITECTURAL DIVISION

LIC. NO.

PROJECT

ADDRESS

WORK ORDER NO.

FILE NO.

DRAWING NO.

SHEET

OF

SHEETS

CLIENT: BUREAU OF SANITATION

DIRECTOR: ENRIQUE C. ZALDIVAR

SHEET TITLE: DEMOLITION PLAN, SHEET 2

PROJECT: LOPEZ CANYON EQUESTRIAN STAGING AREA

ADDRESS: 11950 LOPEZ CANYON ROAD,
LOS ANGELES, CA 91342

PLOTTED: 5/18/2012 9:31 AM

GRADING NOTES:

1. ALL REQUIRED FILL OR BACKFILL SHALL BE PLACED IN LOOSE LEVEL LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS, MOISTURE CONDITIONED BETWEEN OPTIMUM MOISTURE CONTENT AND A FEW PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT. MAN-MADE FILL SHALL BE MECHANICALLY COMPACTED TO A MIN. RELATIVE COMPACTION OF 90% MAX. DRY DENSITY PER ASTM METHOD D-1557.
2. THE REQUIRED FILL MATERIALS SHALL BE PLACED IN LEVEL, UNIFORM LAYERS NOT EXCEEDING 6" IN THICKNESS WHEN COMPACTED. EACH LAYER SHALL BE THOROUGHLY MIXED DURING SPREADING TO INSURE UNIFORMITY OF MATERIAL AND MOISTURE IN EACH LAYER.
3. ALL WORK SHALL COMPLY TO CITY GRADING REGULATIONS.
4. THE APPROVED SET OF PLANS SHALL BE ON THE JOB SITE AT ALL TIMES.
5. PROTECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ADJACENT PROPERTIES AND FIXED IMPROVEMENTS IN THE PUBLIC RIGHT-OF-WAY DURING GRADING OPERATIONS.
6. DUST SHALL BE CONTROLLED BY WATERING.
7. NO TRENCHES OR EXCAVATION 5'-0" OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND SHALL BE ALLOWED. AN EXCEPTION WILL BE MADE ONLY IF A NECESSARY PERMIT IS OBTAINED FROM THE STATE OF CALIFORNIA (CAL/OSHA) PRIOR TO THE COMMENCEMENT OF THE ACTIVITY.
8. REFER TO THE CONSTRUCTION AND LAYOUT PLAN FOR ADDITIONAL DIMENSIONS, TIES, OR OTHER STAKING DATA.
9. FOR REFERENCE TO EXISTING CONDITIONS, SEE SITE SURVEY, L101-102.
10. GRADING AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE WRITTEN SPECIFICATIONS. ALL OTHER GRADING ISSUES NOT COVERED HEREIN OR WITHIN THE WRITTEN SPECIFICATIONS SHALL BE GOVERNED BY THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION (SSPWC), LATEST EDITION APPROVED BY THE CITY OF LOS ANGELES, DEPARTMENT OF PUBLIC WORKS.
11. CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPP), PER SECTION 5 - ENVIRONMENTAL CONTROL AND MITIGATION OF THE GENERAL REQUIREMENTS FOR APPROVAL AND CERTIFICATION BY PROJECT MANAGER PRIOR TO THE START OF ANY GRADING ACTIVITIES. ONCE APPROVED BY THE CITY, THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE FILING OF THE "NOTICE OF INTENT" (NOI) WITH STATE WATER RESOURCES CONTROL BOARD AND BEGIN THE IMPLEMENTATION OF THE SWPP.
12. STRAIGHT GRADE SHALL BE RUN BETWEEN CONTOURS AND SPOT ELEVATIONS UNLESS OTHERWISE INDICATED.
13. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY METHODS, MATERIALS, AND LABOR TO EFFECTIVELY CONTROL ANY EROSION ACTIVITY THAT MAY OCCUR DURING THE COURSE OF GRADING AND CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE PROJECT ENGINEER PRIOR TO IMPLEMENTATION OF ANY EROSION CONTROL ACTIVITY.

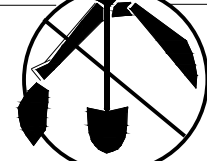
LEGEND

- NEW RECOMPACTED NATIVE SOIL PATH
- NEW STA-LOK NATURAL SURFACE PATH
- NEW CONCRETE PAVEMENT
- EXISTING CONCRETE PAVEMENT
- NEW CRUSHED AGGREGATE BASE PAVEMENT
- COMPACTION TEST
- EXISTING BOULDERS
- PROPOSED CONTOUR
- EXISTING CONTOUR

ABBREVIATIONS

- TB TOP OF BOULDER
BB BOTTOM OF BOULDER
TC TOP OF CURB
BC BOTTOM OF CURB
FG FINISH GRADE
FS FINISH SURFACE
TW TOP OF WALL
BW BOTTOM OF WALL
INV INVERT ELEVATION
GB GRADE BREAK
- FL FLOW LINE
EX EXISTING
HPS HIGH POINT SWALE
LP LOW POINT
PA PLANTING AREA
DI DRAIN INLET
TS TOP OF STEP
BS BOTTOM OF STEP
(173.2) EXISTING GRADE
DIRECTION OF FLOW

DIGALERT

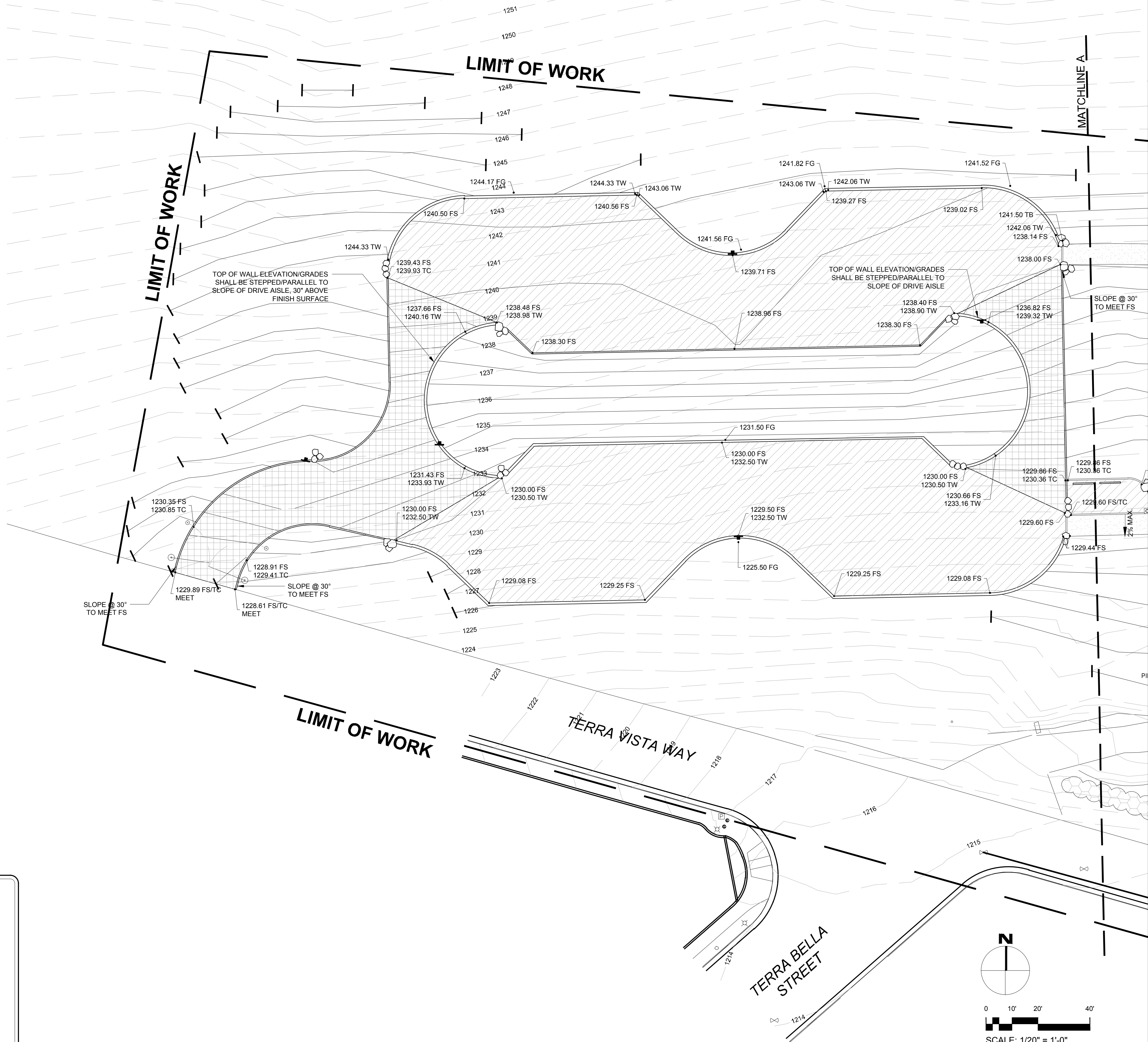


Call Toll Free
1-800-227-2600

TWO
WORKING DAYS
BEFORE YOU
DIG

Underground Service Alert
of Southern California

NOT FOR
CONSTRUCTION



BUREAU OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS

CITY OF LOS ANGELES

LA DRW ENGINEERING Serving the People - Designing the Future	
DATE: _____	BY: _____
REVISIONS:	
NO. 1	DATE: _____
NO. 2	DATE: _____
NO. 3	DATE: _____
NO. 4	DATE: _____
NO. 5	DATE: _____
NO. 6	DATE: _____
NO. 7	DATE: _____
NO. 8	DATE: _____
NO. 9	DATE: _____
NO. 10	DATE: _____
NO. 11	DATE: _____
NO. 12	DATE: _____
NO. 13	DATE: _____
NO. 14	DATE: _____
NO. 15	DATE: _____
NO. 16	DATE: _____
NO. 17	DATE: _____
NO. 18	DATE: _____
NO. 19	DATE: _____
NO. 20	DATE: _____
NO. 21	DATE: _____
NO. 22	DATE: _____
NO. 23	DATE: _____
NO. 24	DATE: _____
NO. 25	DATE: _____
NO. 26	DATE: _____
NO. 27	DATE: _____
NO. 28	DATE: _____
NO. 29	DATE: _____
NO. 30	DATE: _____
NO. 31	DATE: _____
NO. 32	DATE: _____
NO. 33	DATE: _____
NO. 34	DATE: _____
NO. 35	DATE: _____
NO. 36	DATE: _____
NO. 37	DATE: _____
NO. 38	DATE: _____
NO. 39	DATE: _____
NO. 40	DATE: _____
NO. 41	DATE: _____
NO. 42	DATE: _____
NO. 43	DATE: _____
NO. 44	DATE: _____
NO. 45	DATE: _____
NO. 46	DATE: _____
NO. 47	DATE: _____
NO. 48	DATE: _____
NO. 49	DATE: _____
NO. 50	DATE: _____
NO. 51	DATE: _____
NO. 52	DATE: _____
NO. 53	DATE: _____
NO. 54	DATE: _____
NO. 55	DATE: _____
NO. 56	DATE: _____
NO. 57	DATE: _____
NO. 58	DATE: _____
NO. 59	DATE: _____
NO. 60	DATE: _____
NO. 61	DATE: _____
NO. 62	DATE: _____
NO. 63	DATE: _____
NO. 64	DATE: _____
NO. 65	DATE: _____
NO. 66	DATE: _____
NO. 67	DATE: _____
NO. 68	DATE: _____
NO. 69	DATE: _____
NO. 70	DATE: _____
NO. 71	DATE: _____
NO. 72	DATE: _____
NO. 73	DATE: _____
NO. 74	DATE: _____
NO. 75	DATE: _____
NO. 76	DATE: _____
NO. 77	DATE: _____
NO. 78	DATE: _____
NO. 79	DATE: _____
NO. 80	DATE: _____
NO. 81	DATE: _____
NO. 82	DATE: _____
NO. 83	DATE: _____
NO. 84	DATE: _____
NO. 85	DATE: _____
NO. 86	DATE: _____
NO. 87	DATE: _____
NO. 88	DATE: _____
NO. 89	DATE: _____
NO. 90	DATE: _____
NO. 91	DATE: _____
NO. 92	DATE: _____
NO. 93	DATE: _____
NO. 94	DATE: _____
NO. 95	DATE: _____
NO. 96	DATE: _____
NO. 97	DATE: _____
NO. 98	DATE: _____
NO. 99	DATE: _____
NO. 100	DATE: _____
NO. 101	DATE: _____
NO. 102	DATE: _____
NO. 103	DATE: _____
NO. 104	DATE: _____
NO. 105	DATE: _____
NO. 106	DATE: _____
NO. 107	DATE: _____
NO. 108	DATE: _____
NO. 109	DATE: _____
NO. 110	DATE: _____
NO. 111	DATE: _____
NO. 112	DATE: _____
NO. 113	DATE: _____
NO. 114	DATE: _____
NO. 115	DATE: _____
NO. 116	DATE: _____
NO. 117	DATE: _____
NO. 118	DATE: _____
NO. 119	DATE: _____
NO. 120	DATE: _____
NO. 121	DATE: _____
NO. 122	DATE: _____
NO. 123	DATE: _____
NO. 124	DATE: _____
NO. 125	DATE: _____
NO. 126	DATE: _____
NO. 127	DATE: _____
NO. 128	DATE: _____
NO. 129	DATE: _____
NO. 130	DATE: _____
NO. 131	DATE: _____
NO. 132	DATE: _____
NO. 133	DATE: _____
NO. 134	DATE: _____
NO. 135	DATE: _____
NO. 136	DATE: _____
NO. 137	DATE: _____
NO. 138	DATE: _____
NO. 139	DATE: _____
NO. 140	DATE: _____
NO. 141	DATE: _____
NO. 142	DATE: _____
NO. 143	DATE: _____
NO. 144	DATE: _____
NO. 145	DATE: _____
NO. 146	DATE: _____
NO. 147	DATE: _____
NO. 148	DATE: _____
NO. 149	DATE: _____
NO. 150	DATE: _____
NO. 151	DATE: _____
NO. 152	DATE: _____
NO. 153	DATE: _____
NO. 154	DATE: _____
NO. 155	DATE: _____
NO. 156	DATE: _____
NO. 157	DATE: _____
NO. 158	DATE: _____
NO. 159	DATE: _____
NO. 160	DATE: _____
NO. 161	DATE: _____
NO. 162	DATE: _____
NO. 163	DATE: _____
NO. 164	DATE: _____
NO. 165	DATE: _____
NO. 166	DATE: _____
NO. 167	DATE: _____
NO. 168	DATE: _____
NO. 169	DATE: _____
NO. 170	DATE: _____
NO. 171	DATE: _____
NO. 172	DATE: _____
NO. 173	DATE: _____
NO. 174	DATE: _____
NO. 175	DATE: _____
NO. 176	DATE: _____
NO. 177	DATE: _____
NO. 178	DATE: _____
NO. 179	DATE: _____
NO. 180	DATE: _____
NO. 181	DATE: _____
NO. 182	DATE: _____
NO. 183	DATE: _____
NO. 184	DATE: _____
NO. 185	DATE: _____
NO. 186	DATE: _____
NO. 187	DATE: _____
NO. 188	DATE: _____
NO. 189	DATE: _____
NO. 190	DATE: _____
NO. 191	DATE: _____
NO. 192	DATE: _____
NO. 193	DATE: _____
NO. 194	DATE: _____
NO. 195	DATE: _____
NO. 196	DATE: _____
NO. 197	DATE: _____
NO. 198	DATE: _____
NO. 199	DATE: _____
NO. 200	DATE: _____
NO. 201	DATE: _____
NO. 202	DATE: _____
NO. 203	DATE: _____
NO. 204	DATE: _____
NO. 205	DATE: _____
NO. 206	DATE: _____
NO. 207	DATE: _____
NO. 208	DATE: _____
NO. 209	DATE: _____
NO. 210	DATE: _____
NO. 211	DATE: _____
NO. 212	DATE: _____
NO. 213	DATE: _____
NO. 214	DATE: _____
NO. 215	DATE: _____
NO. 216	DATE: _____
NO. 217	DATE: _____
NO. 218	DATE: _____
NO. 219	DATE: _____
NO. 220	DATE: _____
NO. 221	DATE: _____
NO. 222	DATE: _____
NO. 223	DATE: _____
NO. 224	DATE: _____
NO. 225	DATE: _____
NO. 226	DATE: _____
NO. 227	DATE: _____
NO. 228	DATE: _____
NO. 229	DATE: _____
NO. 230	DATE: _____
NO. 231	DATE: _____
NO. 232	DATE: _____
NO. 233	DATE: _____
NO. 234	DATE: _____
NO. 235	DATE: _____
NO. 236	DATE: _____
NO. 237	DATE: _____
NO. 238	DATE: _____
NO. 239	DATE: _____
NO. 240	DATE: _____
NO. 241	DATE: _____
NO. 242	DATE: _____
NO. 243	DATE: _____
NO. 244	DATE: _____
NO. 245	DATE: _____
NO. 246	DATE: _____
NO. 247	DATE: _____
NO. 248	DATE: _____
NO. 249	DATE: _____
NO. 250	DATE: _____
NO. 251	DATE: _____
NO. 252	DATE: _____
NO. 253	DATE: _____
NO. 254	DATE: _____
NO. 255	DATE: _____
NO. 256	DATE: _____
NO. 257	DATE: _____
NO. 258	DATE: _____
NO. 259	DATE: _____
NO. 260	DATE: _____
NO. 261	DATE: _____
NO. 262	DATE: _____
NO. 263	DATE: _____
NO. 264	DATE: _____
NO. 265	DATE: _____
NO. 266	DATE: _____
NO. 267	DATE: _____
NO. 268	DATE: _____
NO. 269	DATE: _____
NO. 270	DATE: _____
NO. 271	DATE: _____
NO. 272	DATE: _____
NO. 273	DATE: _____
NO. 274	DATE: _____
NO. 275	DATE: _____
NO. 276	DATE: _____
NO. 277	DATE: _____
NO. 278	DATE: _____
NO. 279	DATE: _____
NO. 280	DATE: _____
NO. 281	DATE: _____
NO. 282	DATE: _____
NO. 283	DATE: _____
NO. 284	DATE: _____
NO. 285	DATE: _____
NO. 286	DATE: _____
NO. 287	DATE: _____
NO. 288	DATE: _____
NO. 289	DATE: _____
NO. 290	DATE: _____
NO. 291	DATE: _____
NO. 292	DATE: _____
NO. 293	DATE: _____
NO. 294	DATE: _____
NO. 295	DATE: _____
NO. 296	DATE: _____
NO. 297	DATE: _____
NO. 298	DATE: _____
NO. 299	DATE: _____
NO. 300	DATE: _____
NO. 301	DATE: _____
NO. 302	DATE: _____
NO. 303	DATE: _____
NO. 304	DATE: _____
NO. 305	DATE: _____
NO. 306	DATE: _____
NO. 307	DATE: _____
NO. 308	DATE: _____
NO. 309	DATE: _____
NO. 310	DATE: _____
NO. 311	DATE: _____
NO. 312	DATE: _____
NO. 313	DATE: _____
NO. 314	DATE: _____
NO. 315	DATE: _____
NO. 316	DATE: _____
NO. 317	DATE: _____
NO. 318	DATE: _____
NO. 319	DATE: _____
NO. 320	DATE: _____
NO. 321	DATE: _____
NO. 322	DATE: _____
NO. 323	DATE: _____
NO. 324	DATE: _____
NO. 325	DATE: _____
NO. 326	DATE: _____
NO. 327	DATE: _____
NO. 328	DATE: _____
NO. 329	DATE: _____
NO. 330	DATE: _____
NO. 331	DATE: _____
NO. 332	DATE: _____
NO. 333	DATE: _____
NO. 334	DATE: _____
NO. 335	DATE: _____
NO. 336	DATE: _____
NO. 337	DATE: _____
NO. 338	DATE: _____
NO. 339	DATE: _____
NO. 340	DATE: _____
NO. 341	DATE: _____
NO. 342	DATE: _____
NO. 343	DATE: _____
NO. 344	DATE: _____
NO. 345	DATE: _____
NO. 346	DATE: _____
NO. 347	DATE: _____
NO. 348	DATE: _____
NO. 349	DATE: _____
NO. 350	DATE: _____
NO. 351	DATE: _____
NO. 352	DATE: _____
NO. 353	DATE: _____
NO. 354	DATE: _____
NO. 355	DATE: _____
NO. 356	DATE: _____
NO. 357	DATE: _____
NO. 358	DATE: _____
NO. 359	DATE: _____
NO. 360	DATE: _____
NO. 361	DATE: _____
NO. 362	DATE: _____
NO. 363	DATE: _____
NO. 364	DATE: _____
NO. 365	DATE: _____
NO. 366	DATE: _____
NO. 367	DATE: _____
NO. 368	DATE: _____
NO. 369	DATE: _____
NO. 370	DATE: _____
NO. 371	DATE: _____
NO. 372	DATE: _____
NO. 373	DATE: _____
NO. 374	DATE: _____
NO. 375	DATE: _____
NO. 376	DATE: _____
NO. 377	DATE: _____
NO. 378	DATE: _____
NO. 379	DATE: _____
NO. 380	DATE: _____
NO. 381	DATE: _____
NO. 382	DATE: _____
NO. 383	DATE: _____
NO. 384	DATE: _____
NO. 385	DATE: _____
NO. 386	DATE: _____
NO. 387	DATE: _____
NO. 388	DATE: _____
NO. 389	DATE: _____
NO. 390	DATE: _____
NO. 391	DATE: _____
NO. 392	DATE: _____
NO. 393	DATE: _____
NO. 394	DATE: _____
NO. 395	DATE: _____
NO. 396	DATE: _____
NO. 397	DATE: _____
NO. 398	DATE: _____
NO. 399	DATE: _____
NO. 400	DATE: _____
NO. 401	DATE: _____
NO. 402	DATE: _____
NO. 403	DATE: _____
NO. 404	DATE: _____
NO. 405	DATE: _____
NO. 406	DATE: _____
NO. 407	DATE: _____
NO. 408	DATE: _____
NO. 409	DATE: _____
NO. 410	DATE: _____
NO. 411	DATE: _____
NO. 412	DATE: _____
NO. 413	DATE: _____
NO. 414	DATE: _____
NO. 415	DATE: _____
NO. 416	DATE: _____
NO. 417	DATE: _____
NO. 418	DATE: _____
NO. 419	DATE: _____
NO. 420	DATE: _____
NO. 421	DATE: _____
NO. 422	DATE: _____
NO. 423	DATE: _____
NO. 424	DATE: _____
NO. 425	DATE: _____
NO. 426	DATE: _____
NO. 427	DATE: _____
NO. 428	DATE: _____
NO. 429	DATE: _____
NO. 430	DATE: _____
NO. 431	DATE: _____
NO. 432	DATE: _____
NO. 433	DATE: _____
NO. 434	DATE: _____
NO. 435	DATE: _____
NO. 436	DATE: _____
NO. 437	DATE: _____
NO. 438	DATE: _____
NO. 439	DATE: _____
NO. 440	DATE: _____
NO. 441	DATE: _____
NO. 442	DATE: _____
NO. 443	DATE: _____
NO. 444	DATE: _____
NO. 445	DATE: _____
NO. 446	DATE: _____
NO. 447	DATE: _____
NO. 448	DATE: _____
NO. 449	DATE: _____
NO. 450	DATE: _____
NO. 451	DATE: _____
NO. 452	DATE: _____
NO. 453	DATE: _____
NO. 454	DATE: _____
NO. 455	DATE: _____
NO. 456	DATE: _____
NO. 457	DATE: _____
NO. 458	DATE: _____
NO. 459	DATE: _____
NO. 460	DATE: _____
NO. 461	DATE: _____
NO. 462	DATE: _____
NO. 463	DATE: _____
NO. 464	DATE: _____
NO. 46	

GRADING NOTES:

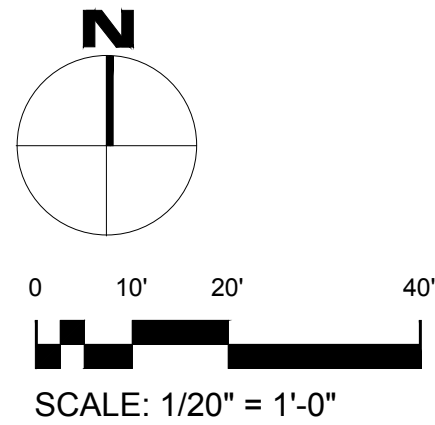
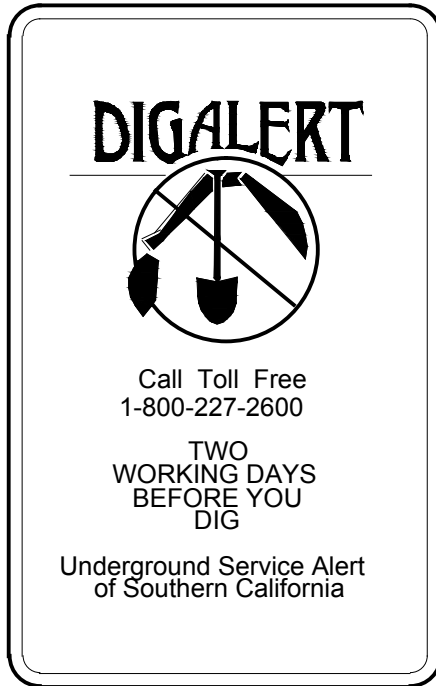
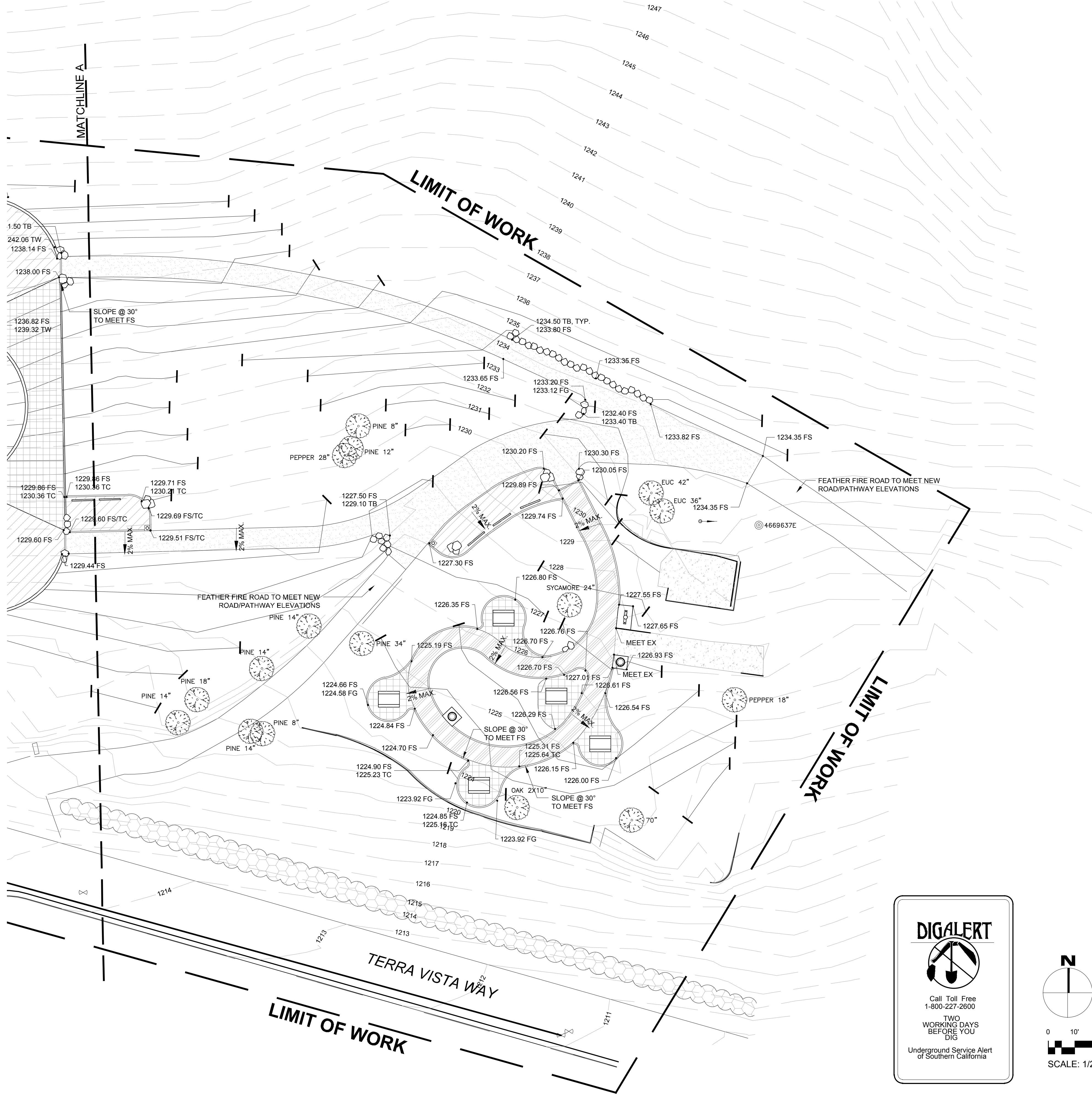
1. ALL REQUIRED FILL OR BACKFILL SHALL BE PLACED IN LOOSE LEVEL LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS, MOISTURE CONDITIONED BETWEEN OPTIMUM MOISTURE CONTENT AND A FEW PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT. MAN-MADE FILL SHALL BE MECHANICALLY COMPACTED TO A MIN. RELATIVE COMPACTION OF 90% MAX. DRY DENSITY PER ASTM METHOD D-1557.
2. THE REQUIRED FILL MATERIALS SHALL BE PLACED IN LEVEL, UNIFORM LAYERS NOT EXCEEDING 6" IN THICKNESS WHEN COMPACTED. EACH LAYER SHALL BE THOROUGHLY MIXED DURING SPREADING TO INSURE UNIFORMITY OF MATERIAL AND MOISTURE IN EACH LAYER.
3. ALL WORK SHALL COMPLY TO CITY GRADING REGULATIONS.
4. THE APPROVED SET OF PLANS SHALL BE ON THE JOB SITE AT ALL TIMES.
5. PROTECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ADJACENT PROPERTIES AND FIXED IMPROVEMENTS IN THE PUBLIC RIGHT-OF-WAY DURING GRADING OPERATIONS.
6. DUST SHALL BE CONTROLLED BY WATERING.
7. NO TRENCHES OR EXCAVATION 5'-0" OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND SHALL BE ALLOWED. AN EXCEPTION WILL BE MADE ONLY IF A NECESSARY PERMIT IS OBTAINED FROM THE STATE OF CALIFORNIA (CAL/OSHA) PRIOR TO THE COMMENCEMENT OF THE ACTIVITY.
8. REFER TO THE CONSTRUCTION AND LAYOUT PLAN FOR ADDITIONAL DIMENSIONS, TIES, OR OTHER STAKING DATA.
9. FOR REFERENCE TO EXISTING CONDITIONS, SEE SITE SURVEY, L101-102.
10. GRADING AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE WRITTEN SPECIFICATIONS. ALL OTHER GRADING ISSUES NOT COVERED HEREIN OR WITHIN THE WRITTEN SPECIFICATIONS SHALL BE GOVERNED BY THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION (SSPWC), LATEST EDITION APPROVED BY THE CITY OF LOS ANGELES, DEPARTMENT OF PUBLIC WORKS.
11. CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPP), PER SECTION 5 - ENVIRONMENTAL CONTROL AND MITIGATION OF THE GENERAL REQUIREMENTS FOR APPROVAL AND CERTIFICATION BY PROJECT MANAGER PRIOR TO THE START OF ANY GRADING ACTIVITIES. ONCE APPROVED BY THE CITY, THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE FILING OF THE "NOTICE OF INTENT" (NOI) WITH STATE WATER RESOURCES CONTROL BOARD AND BEGIN THE IMPLEMENTATION OF THE SWPP.
12. STRAIGHT GRADE SHALL BE RUN BETWEEN CONTOURS AND SPOT ELEVATIONS UNLESS OTHERWISE INDICATED.
13. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY METHODS, MATERIALS, AND LABOR TO EFFECTIVELY CONTROL ANY EROSION ACTIVITY THAT MAY OCCUR DURING THE COURSE OF GRADING AND CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE PROJECT ENGINEER PRIOR TO IMPLEMENTATION OF ANY EROSION CONTROL ACTIVITY.

LEGEND

- NEW RECOMPACTED NATIVE SOIL PATH
- NEW STA-LOK NATURAL SURFACE PATH
- NEW CONCRETE PAVEMENT
- EXISTING CONCRETE PAVEMENT
- NEW CRUSHED AGGREGATE BASE PAVEMENT
- COMPACTION TEST
- EXISTING BOULDERS
- PROPOSED CONTOUR
- EXISTING CONTOUR

ABBREVIATIONS

- TB TOP OF BOULDER
BB BOTTOM OF BOULDER
TC TOP OF CURB
BC BOTTOM OF CURB
FG FINISH GRADE
FS FINISH SURFACE
TW TOP OF WALL
BW BOTTOM OF WALL
INV INVERT ELEVATION
GB GRADE BREAK
- FL FLOW LINE
EX EXISTING
HPS HIGH POINT SWALE
LP LOW POINT
PA PLANTING AREA
DI DRAIN INLET
TS TOP OF STEP
BS BOTTOM OF STEP
(173.2) EXISTING GRADE
DIRECTION OF FLOW



NOT FOR
CONSTRUCTION

REVISION DATE: 5/18/2012 9:16 AM
FILE: D:\LOPEZ\ON-EQUESTRIAN-HORSE-TRAIL\DRAWINGS\SLICE-GRADIES.DWG
REVISION DATES (DESIGN STAGE ONLY)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

M
L
K
J
H
G
F
E
D
C
B
A

Sheet Version 2.2

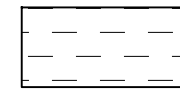

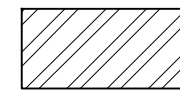
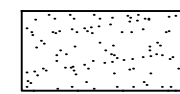
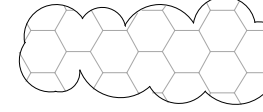
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

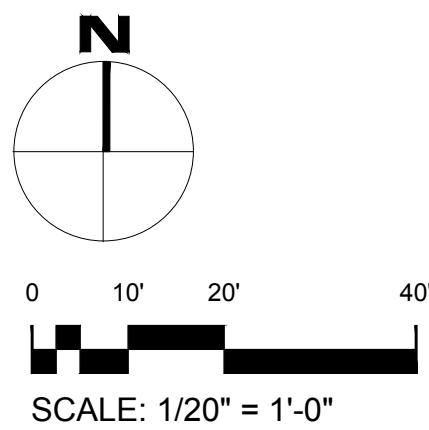
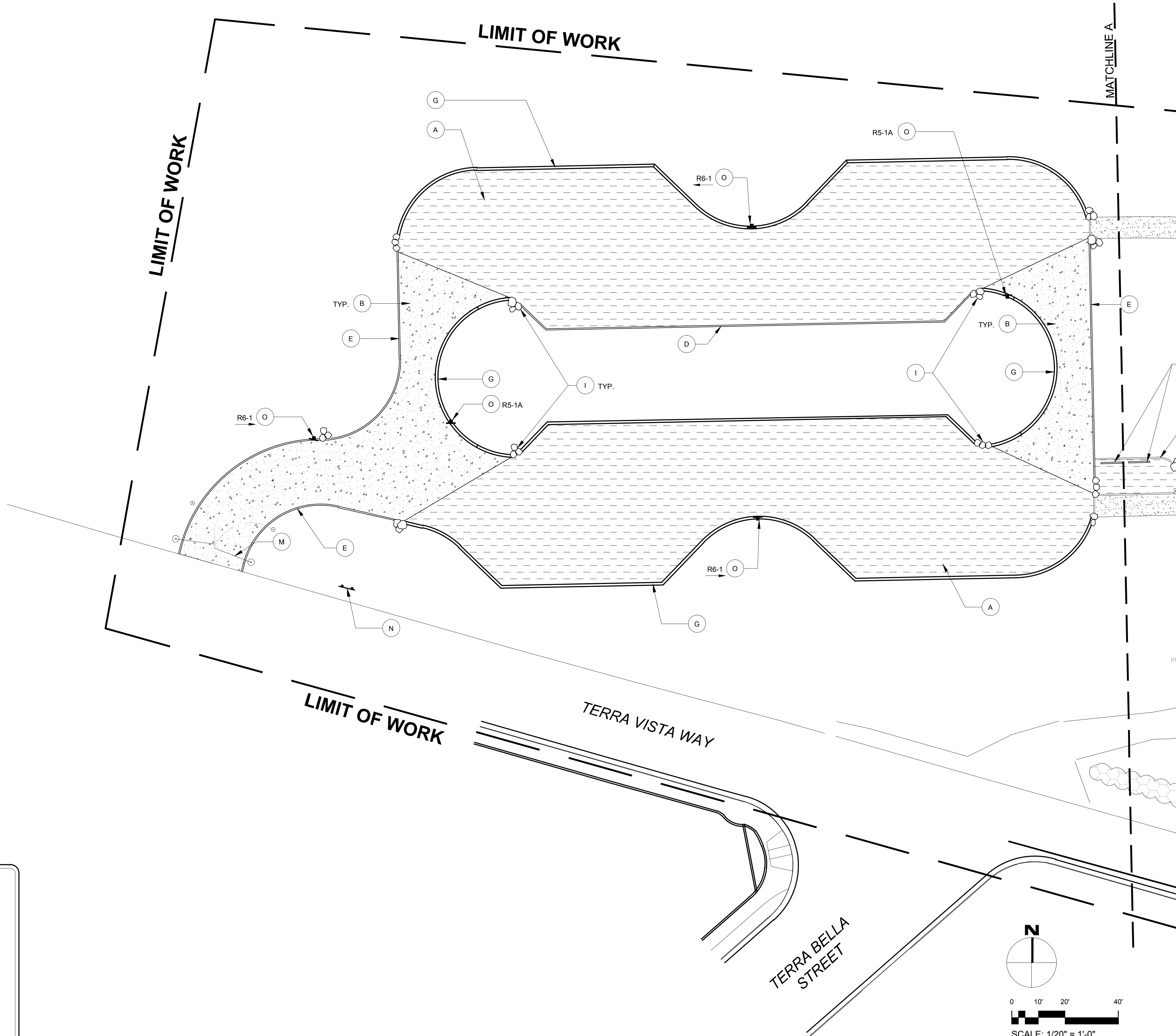
CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

CLIENT: BUREAU OF SANITATION DIRECTOR: ENRIQUE C. ZALDIVAR		ARCHITECT: INSITI DHANDHA DESIGNED BY: INSITI DHANDHA DRAWN BY: INSITI DHANDHA CHECKED BY: JANE ADRIAN APPROVED BY: MAHMOOD KARIMZADEH, A.I.A., PRINCIPAL ARCHITECT	
SHEET TITLE: GRADING AND DRAINAGE PLAN, SHEET 2 PROJECT: LOPEZ CANYON EQUESTRIAN STAGING AREA ADDRESS: 11950 LOPEZ CANYON ROAD, LOS ANGELES, CA 91342		WORK ORDER NO. E1906881 FILE NO. --- DRAWING NO. L302 SHEET OF SHEETS	
NO REVISIONS: NO. 1 NO. 2 NO. 3 NO. 4		DATE: BY: INDEX NO. - BUILDING NO. XXXX	
LANSCAPE ARCHITECT INSITI DHANDHA No. 5135 Signature Reviewed Date Date LICENSED CITY OF CALIFORNIA			

- KEY:**
- (A) INSTALL NEW CRUSHED AGGREGATE PAVING SURFACE, DETAIL A9/L403.
 - (B) NEW CONCRETE PAVING, DETAIL E13/L403 AND J13/L403.
 - (C) NEW HORSE WATERER, DETAIL A1/L403.
 - (D) NEW CONCRETE MOW STRIP, DETAIL J5/L403.
 - (E) NEW 6" CONCRETE CURB, DETAIL A5/L403.
 - (F) NEW CONCRETE PICNIC TABLE ON HARDSCAPE, DETAIL A13/L403.
 - (G) NEW CONCRETE RETAINING WALL, DETAIL A13/L405.
 - (H) NEW STA-LOK OR APPROVED EQUAL NATURAL SURFACE PAVEMENT, DETAIL J9/L403.
 - (I) NEW 2' -3' DIA. BOULDERS, DETAIL E5/L403.
 - (J) NEW METAL TRASH RECEPTACLE, DETAIL J13/L404.
 - (K) NEW ACCESSIBLE DRINKING FOUNTAIN, DETAIL E1/L404.
 - (L) NEW EQUESTRIAN HITCHING POST, DETAIL J1/L403.
 - (M) NEW DOUBLE-LEAF RINO GATE, DETAIL A1/L404.
 - (N) INSTALL CONSTRUCTION SIGN - FINAL LOCATION TO BE APPROVED BY PROJECT MANAGER, DETAIL J1/L404.
 - (O) INSTALL DIRECTIONAL SIGNAGE, DETAIL A9/L405.

LEGEND

-  CRUSHED AGGREGATE PAVEMENT, SEE DETAIL A9/L403
-  CONCRETE PAVEMENT, SEE DETAIL E13 AND J13, SHT. L403
-  STA-LOK NATURAL PAVEMENT SURFACE, SEE DETAIL J9, SHT. L403
-  GRADED AND COMPACTED NATIVE SOIL AT 95% COMPACTION
-  EXISTING BOULDERS



NOT FOR
CONSTRUCTION

LA DRW

ENGINEERING

Striving for Progress,
Defining the Future

DATE:	BY:	
REVISIONS:		
NO	DATE	BY
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		

BUILDING NO.

XXXX

INDEX NO.

-

LANDSCAPE ARCHITECT

INSITH DHANDHA

No.5135

Signature

Reviewed Date

Date

DATE

DATE

DATE

DATE

GARY LEE MOORE, P.E.

CITY ENGINEER

ARCHITECTURAL DIVISION

ARCHITECT: INSITH DHANDHA

LIC. NO. 5135

DESIGNED BY: INSITH DHANDHA

DRAWN BY: INSITH DHANDHA

CHECKED BY: JANE ADRIAN

APPROVED BY: MAHMOOD KARIMZADEH, A.I.A., PRINCIPAL ARCHITECT

CLIENT: BUREAU OF SANITATION

DIRECTOR: ENRIQUE C. ZALDIVAR

SHEET TITLE: CONSTRUCTION PLAN, SHEET 1

PROJECT: LOPEZ CANYON EQUESTRIAN STAGING AREA

ADDRESS: 11950 LOPEZ CANYON ROAD,
LOS ANGELES, CA 91342

WORK ORDER NO.

E1906881

FILE NO.

DRAWING NO.

L401

SHEET

OF

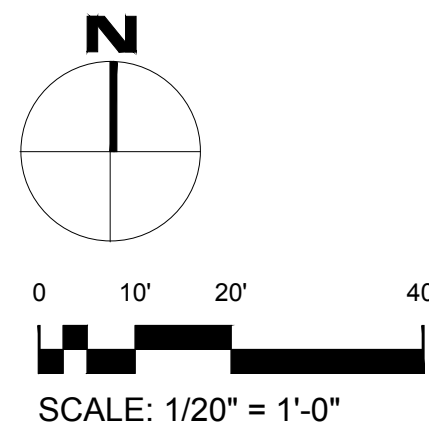
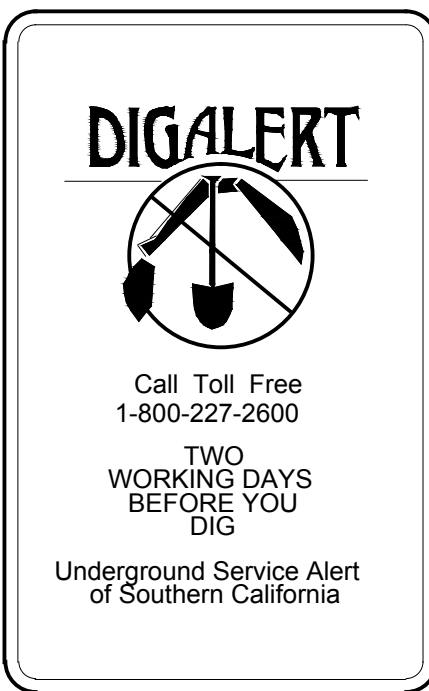
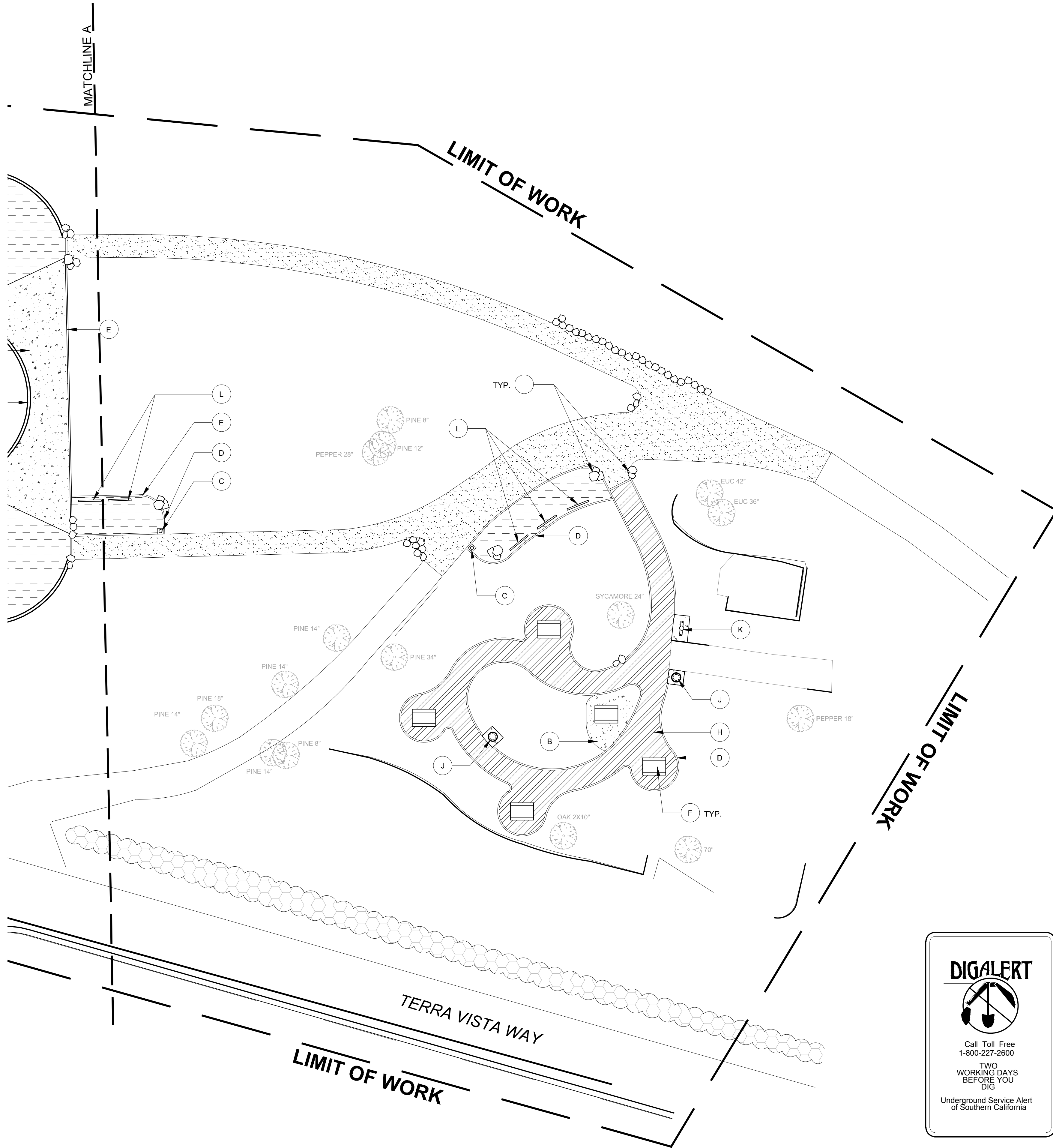
SHEETS

PLOTTED: 5/18/2012 9:34 AM

- KEY:**
- (A) INSTALL NEW CRUSHED AGGREGATE PAVING SURFACE, DETAIL A9/L403.
 - (B) NEW CONCRETE PAVING, DETAIL E13/L403 AND J13/L403.
 - (C) NEW HORSE WATERER, DETAIL A1/L403.
 - (D) NEW CONCRETE MOW STRIP, DETAIL J5/L403.
 - (E) NEW 6" CONCRETE CURB, DETAIL A5/L403.
 - (F) NEW CONCRETE PICNIC TABLE ON HARDSCAPE, DETAIL A13/L403.
 - (G) NEW CONCRETE RETAINING WALL, DETAIL A13/L405.
 - (H) NEW STA-LOK OR APPROVED EQUAL NATURAL SURFACE PAVEMENT, DETAIL J9/L403.
 - (I) NEW 2' -3' DIA. BOULDERS, DETAIL E5/L403.
 - (J) NEW METAL TRASH RECEPTACLE, DETAIL J13/L404.
 - (K) NEW ACCESSIBLE DRINKING FOUNTAIN, DETAIL E1/L404.
 - (L) NEW EQUESTRIAN HITCHING POST, DETAIL J1/L403.
 - (M) NEW DOUBLE-LEAF RINO GATE, DETAIL A1/L404.
 - (N) INSTALL CONSTRUCTION SIGN - FINAL LOCATION TO BE APPROVED BY PROJECT MANAGER, DETAIL J1/L404.
 - (O) INSTALL DIRECTIONAL SIGNAGE, DETAIL A9/L405.

LEGEND

- CRUSHED AGGREGATE PAVEMENT, SEE DETAIL A9/L403
- CONCRETE PAVEMENT, SEE DETAIL E13 AND J13, SHT. L403
- STA-LOK NATURAL PAVEMENT SURFACE, SEE DETAIL J9, SHT. L403
- GRADED AND COMPACTED NATIVE SOIL AT 95% COMPACTION
- EXISTING BOULDERS



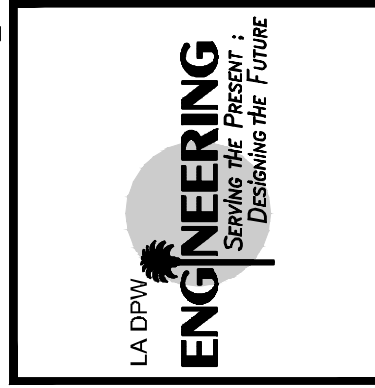
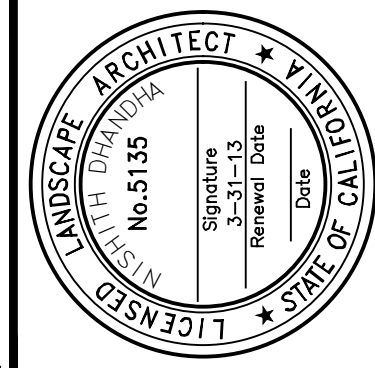
NOT FOR
CONSTRUCTION

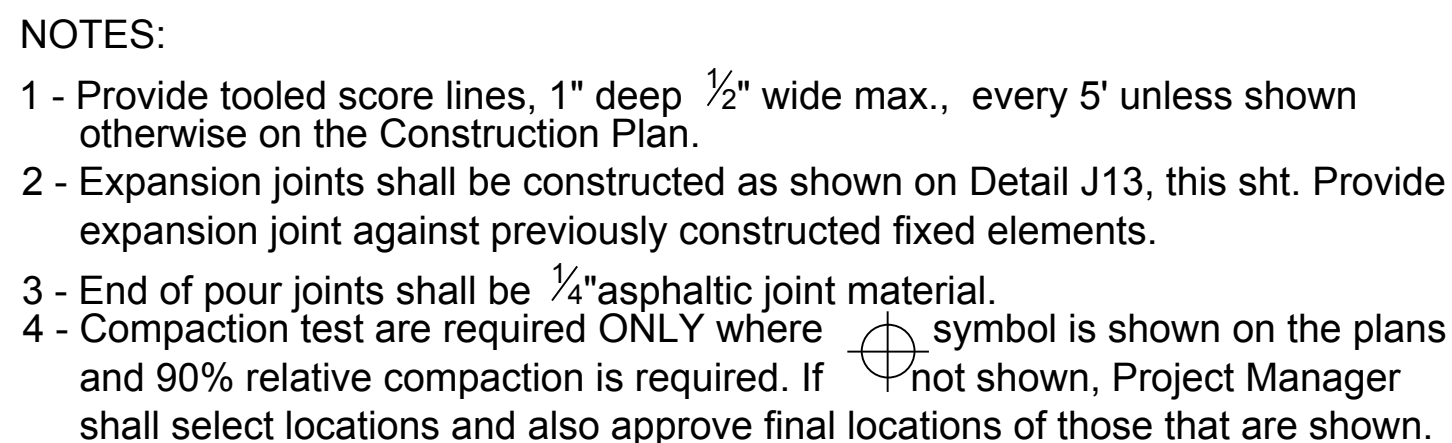
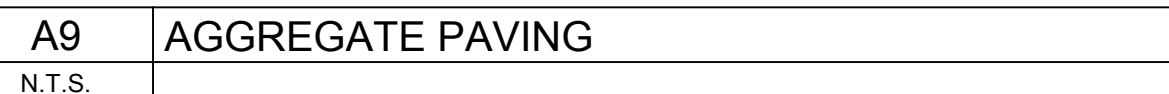
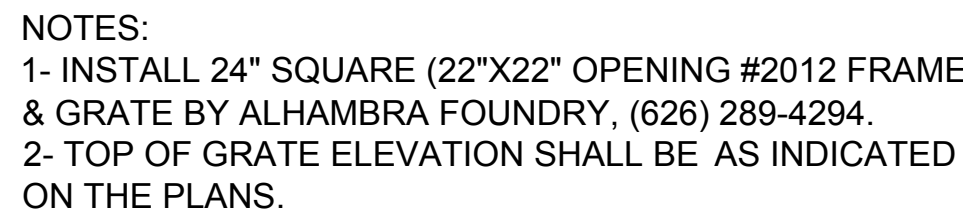
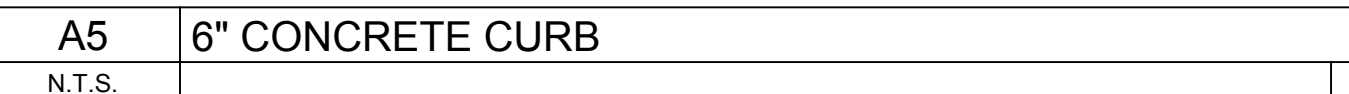
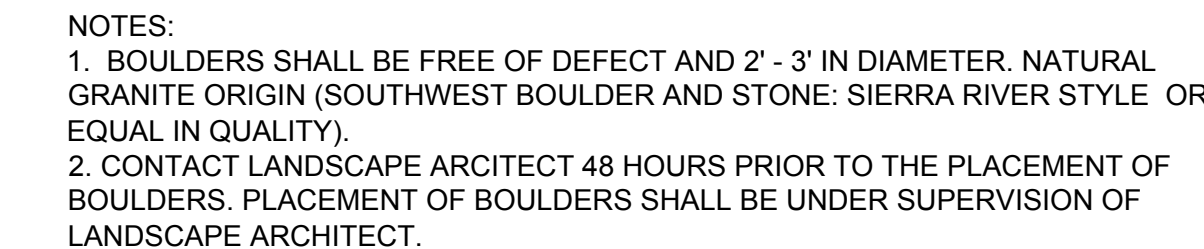
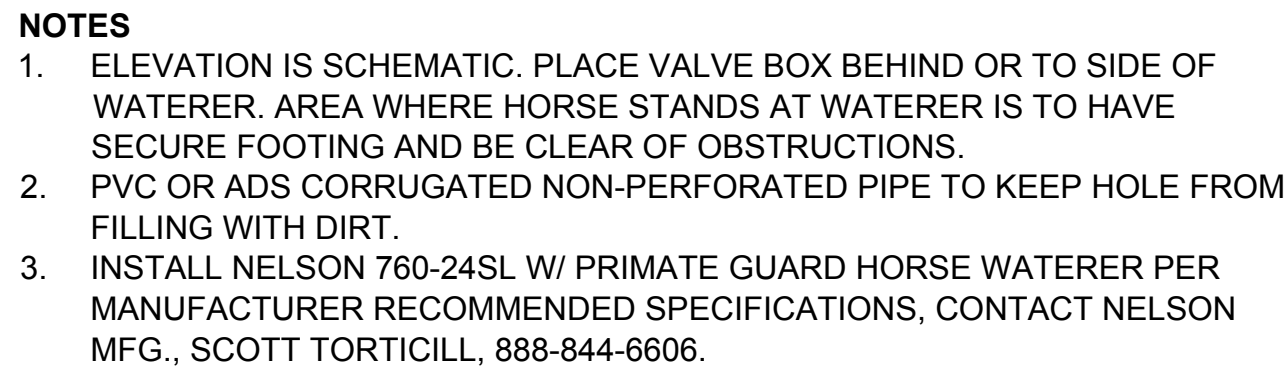
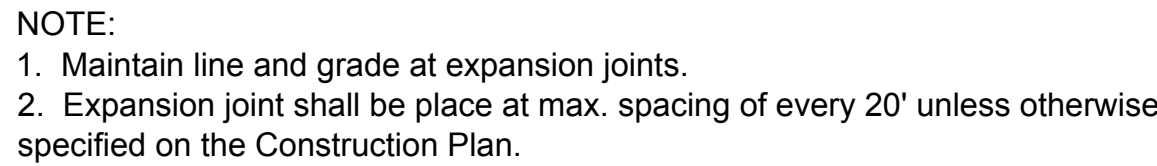
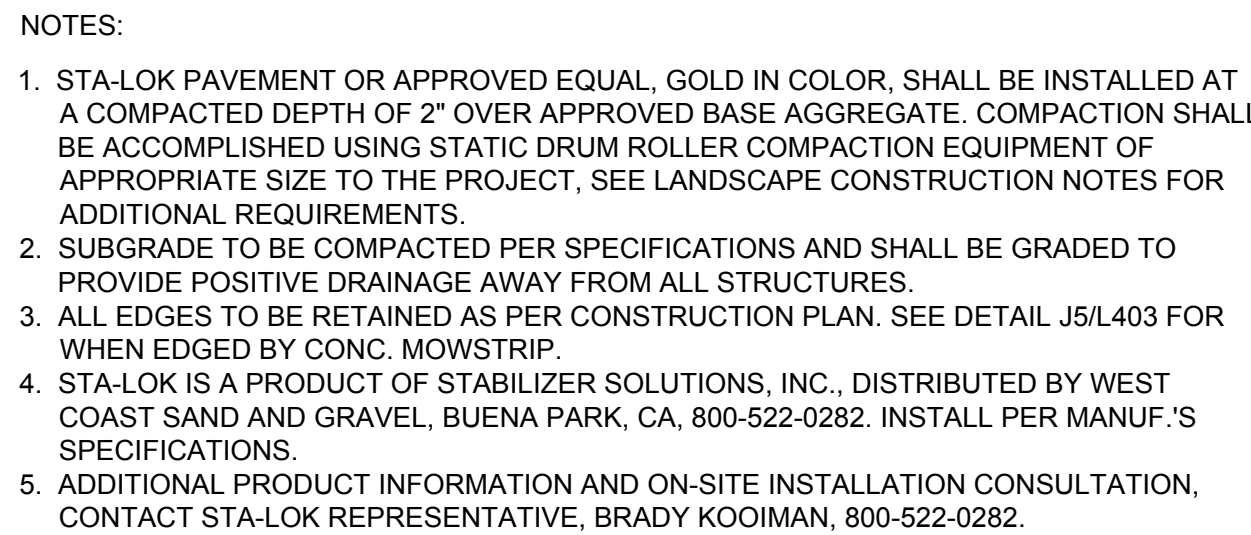
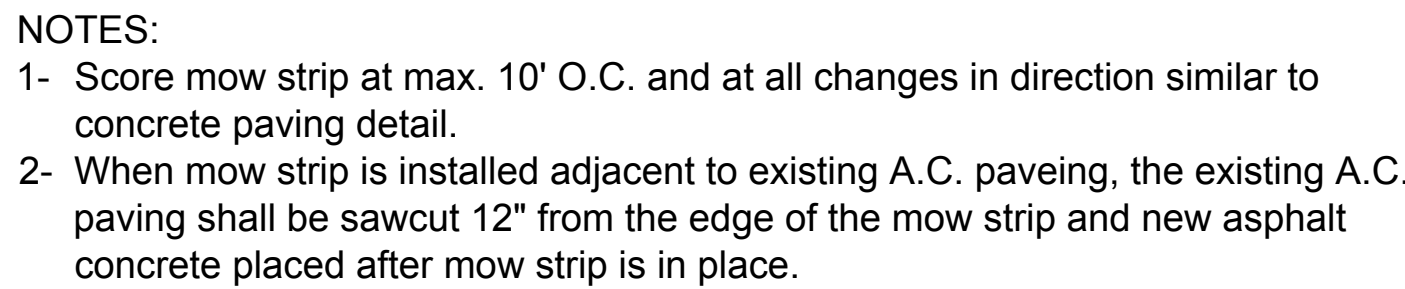
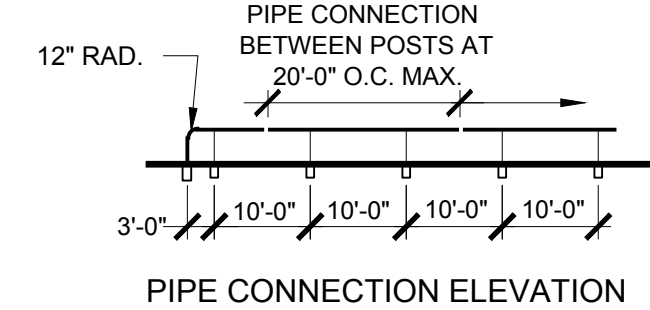
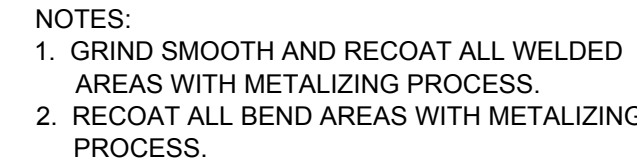
BUREAU OF ENGINEERING

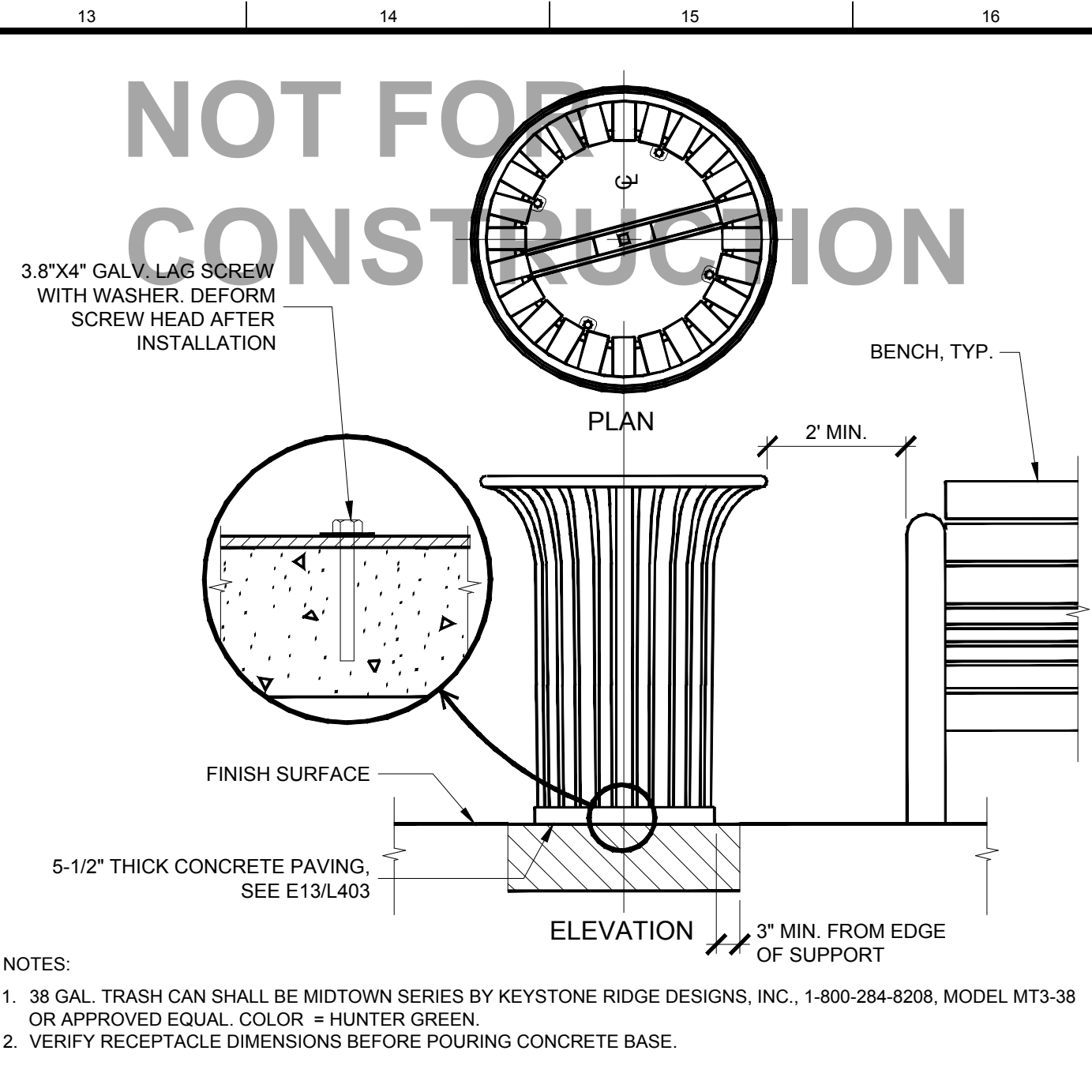
DEPARTMENT OF PUBLIC WORKS

CITY OF LOS ANGELES

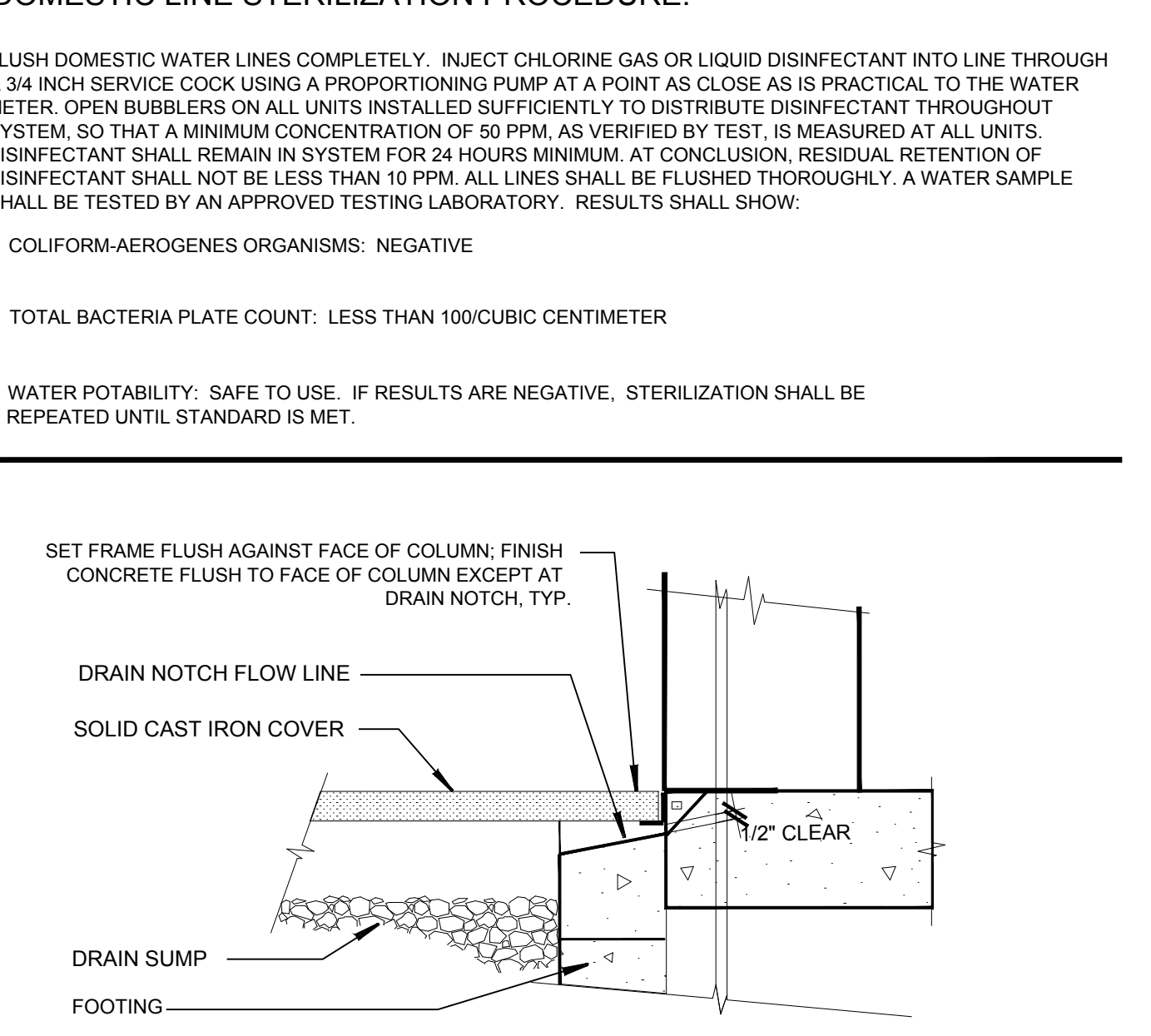
CLIENT: BUREAU OF SANITATION DIRECTOR: ENRIQUE C. ZALDIVAR		CITY ENGINEER GARY LEE MOORE, P.E.	
ARCHITECT: NSHITH DHANDHA		ARCHITECTURAL DIVISION	
DESIGNED BY: NSHITH DHANDHA		LIC. NO. 5135	
DRAWN BY: NSHITH DHANDHA		DATE:	
CHECKED BY: JANE ADRIAN		PROJECT: LOPEZ CANYON EQUESTRIAN STAGING AREA	
APPROVED BY: MAHMOOD KARIMZADEH, A.I.A., PRINCIPAL ARCHITECT		ADDRESS: 11950 LOPEZ CANYON ROAD, LOS ANGELES, CA 91342	
SHEET TITLE: CONSTRUCTION PLAN, SHEET 2		WORK ORDER NO. E1906881	
PROJECT: LOPEZ CANYON EQUESTRIAN STAGING AREA		FILE NO. ---	
ADDRESS: 11950 LOPEZ CANYON ROAD, LOS ANGELES, CA 91342		DRAWING NO. L402	
BUILDING NO. XXXX		SHEET OF SHEETS	
INDEX NO. -		PLOTTED: 5/18/2012 9:34 AM	







MOST DEPENDABLE FOUNTAINS MODEL # 840 SM-02 (W/SS) _____



SET GATE RAILS LEVEL AND GATE POST PLUMB

SEE DETAIL 3

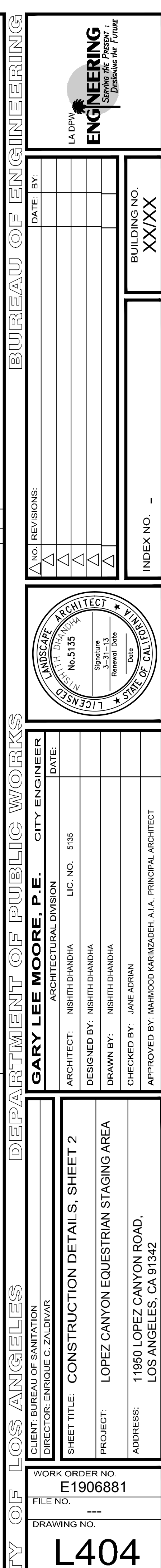
LOCK GUARD - 1/4" THICK STEEL PLATE

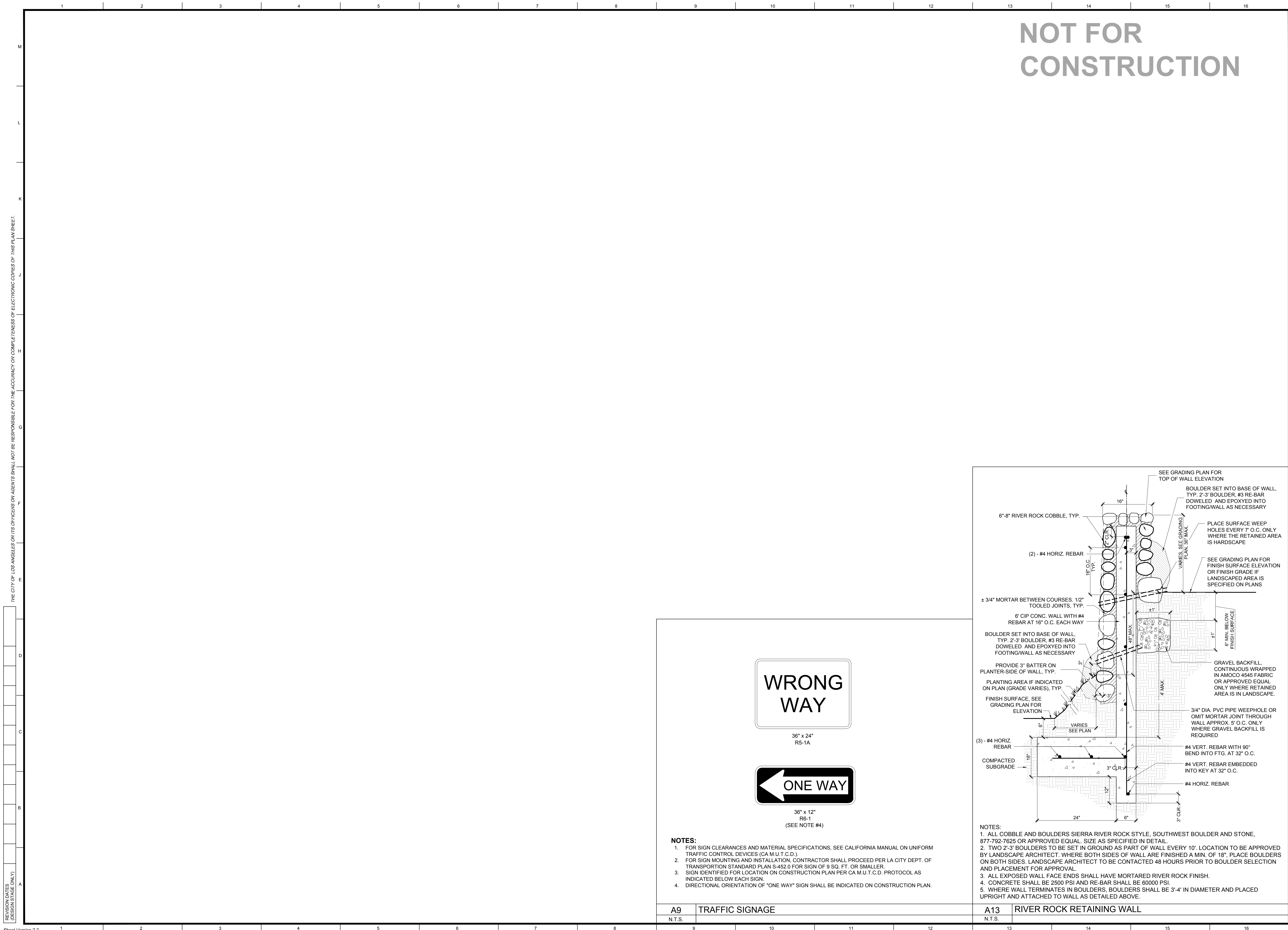
5-3/4"

3 1/2" DIA. O.D. TOP RAIL

3 1/2" DIA. TOP RAIL

THE SECURING HASP FOR THE DOUBLE





- NOTES:**
- FOR SIGN CLEARANCES AND MATERIAL SPECIFICATIONS, SEE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA M.U.T.C.D.).
 - FOR SIGN MOUNTING AND INSTALLATION, CONTRACTOR SHALL PROCEED PER LA CITY DEPT. OF TRANSPORTION STANDARD PLAN S-452.0 FOR SIGN OF 9 SQ. FT. OR SMALLER.
 - SIGN IDENTIFIED FOR LOCATION ON CONSTRUCTION PLAN PER CA M.U.T.C.D. PROTOCOL AS INDICATED BELOW EACH SIGN.
 - DIRECTIONAL ORIENTATION OF "ONE WAY" SIGN SHALL BE INDICATED ON CONSTRUCTION PLAN.

- NOTES:**
- ALL COBBLE AND BOULDERS SIERRA RIVER ROCK STYLE, SOUTHWEST BOULDER AND STONE, 877-792-7625 OR APPROVED EQUAL. SIZE AS SPECIFIED IN DETAIL.
 - TWO 2'-3" BOULDERS TO BE SET IN GROUND AS PART OF WALL EVERY 10'. LOCATION TO BE APPROVED BY LANDSCAPE ARCHITECT. WHERE BOTH SIDES OF WALL ARE FINISHED A MIN. OF 18", PLACE BOULDERS ON BOTH SIDES. LANDSCAPE ARCHITECT TO BE CONTACTED 48 HOURS PRIOR TO BOULDER SELECTION AND PLACEMENT FOR APPROVAL.
 - ALL EXPOSED WALL FACE ENDS SHALL HAVE MORTARED RIVER ROCK FINISH.
 - CONCRETE SHALL BE 2500 PSI AND RE-BAR SHALL BE 60000 PSI.
 - WHERE WALL TERMINATES IN BOULDERS, BOULDERS SHALL BE 3'-4" IN DIAMETER AND PLACED UPRIGHT AND ATTACHED TO WALL AS DETAILED ABOVE.

A9	TRAFFIC SIGNAGE	A13	RIVER ROCK RETAINING WALL
N.T.S.		N.T.S.	

CITY OF LOS ANGELES

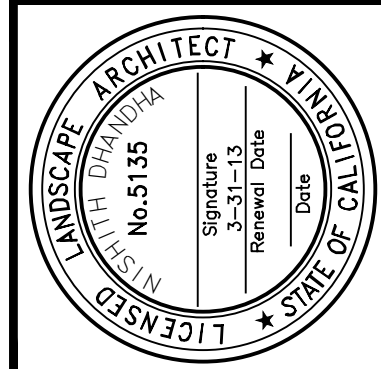
DEPARTMENT OF PUBLIC WORKS

BUREAU OF ENGINEERING

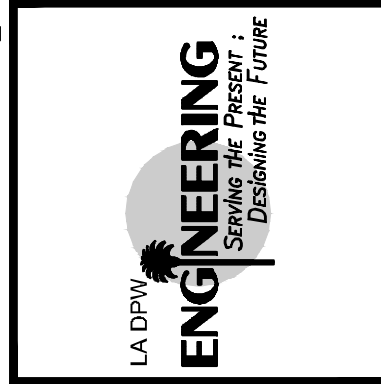
GARY LEE MOORE, P.E. CITY ENGINEER		ARCHITECTURAL DIVISION	DATE:
ARCHITECT:	INSIITH DHANDHA	LIC. NO.	5135
DESIGNED BY:	INSIITH DHANDHA		
DRAWN BY:	INSIITH DHANDHA		
CHECKED BY:	JANE ADRIAN		
APPROVED BY:	MAHMOOD KARIMZADEH, A.I.A., PRINCIPAL ARCHITECT		

CLIENT: BUREAU OF SANITATION DIRECTOR: ENRIQUE C. ZALDIVAR		WORK ORDER NO. E1906881
SHEET TITLE: CONSTRUCTION DETAILS, SHEET 3		FILE NO. ---
PROJECT: LOPEZ CANYON EQUESTRIAN STAGING AREA		DRAWING NO.
ADDRESS: 11950 LOPEZ CANYON ROAD, LOS ANGELES, CA 91342		

SHEET		SHEETS	
OF			
L405			



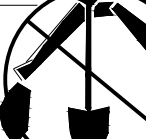
NO.	REVISIONS:	DATE:	BY:
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
INDEX NO. -		BUILDING NO. XXXX	



Shoot Version 2.2

LA DPW
ENGINEERING
SERVING THE PRESENT :
DESIGNING THE FUTURE

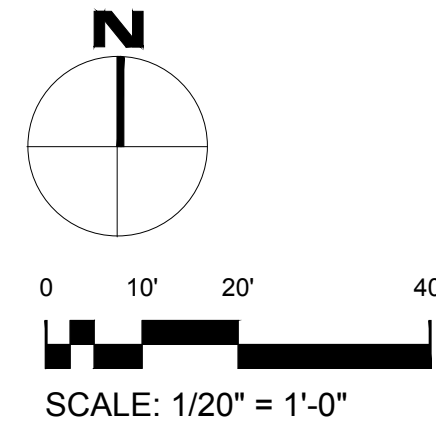
DIGALERT



Call Toll Free
1-800-227-2600

**TWO
WORKING DAYS
BEFORE YOU
DIG**

**Underground Service Alert
of Southern California**



CITY OF LOS ANGELES		DEPARTMENT OF PUBLIC WORKS		BUREAU OF ENGINEERING	
CLIENT: BUREAU OF SANITATION DIRECTOR: ENRIQUE G. ZALDIVAR		GARY LEE MOORE, P.E.		CITY ENGINEER	
SHEET TITLE: LAYOUT PLAN, SHEET 2		ARCHITECTURAL DIVISION		DATE:	
PROJECT: LOPEZ CANYON EQUESTRIAN STAGING AREA		ARCHITECT: NISITHI DHANDHA		LIC. NO. 5135	
ADDRESS: 11950 LOPEZ CANYON ROAD, LOS ANGELES, CA 91342		DESIGNED BY: NISITHI DHANDHA			
		DRAWN BY: NISITHI DHANDHA			
		CHECKED BY: JANE ADRIAN			
		APPROVED BY: MAHMOOD KARIMZADEH, A.I.A., PRINCIPAL ARCHITECT			
WORK ORDER NO. E19006881		FILE NO. ---		DRAWING NO. ---	
L502		SHEET		SHEETS	
OF					
PLOTTED: 5/18/2012 10:15 AM					

LA DPW		ENGINEERING		SINCE 1921 Serving the Public Dedication. Honesty. Integrity.	
No. 5135		Signature		Date	
REVISIONS		DATE BY:			
△					
△					
△					
△					
INDEX NO. -		BUILDING NO. XXXXX			

- NOTES:
1. IRRIGATION PLANS ARE DIAGRAMMATIC. ALL LINES SHALL BE PLACED PER DETAIL AND SPECIFICATION AND WHERE POSSIBLE WITHIN THE LANDSCAPE AREAS, SLEEVE WHERE NECESSARY.
 2. CONTRACTOR TO COORDINATE ALL WORK WITH THE ASSIGNED CITY DEPARTMENT'S LANDSCAPE MAINTENANCE GROUP. PROJECT MANAGER TO PROVIDE CONTACT INFORMATION.
 3. CONTRACTOR SHALL PROVIDE 100% HEAD TO HEAD COVERAGE.
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING AND RE-SETTING IRRIGATION BOXES, HEADS AND OTHER EXISTING EQUIPMENT TO REMAIN AFFECTED DURING CONSTRUCTION AND GRADING TO PROPER HEIGHTS RELATIVE TO FINISH GRADE.
 4. VALVE MANIFOLDS SHALL BE PLACED IN LANDSCAPED AREAS ADJACENT TO HARDSCAPED PATHS.
 5. STATIC WATER PRESSURE VARIES FROM A HIGH OF 128 PSI TO A LOW OF 71 PSI PER INFORMATION PROVIDED BY LA DEPARTMENT OF WATER AND POWER ON 04/18/12. CONTRACTOR TO VERIFY AVAILABLE PRESSURE WITH PRIOR TO COMMENCEMENT OF IRRIGATION WORK.

NOT FOR
CONSTRUCTION

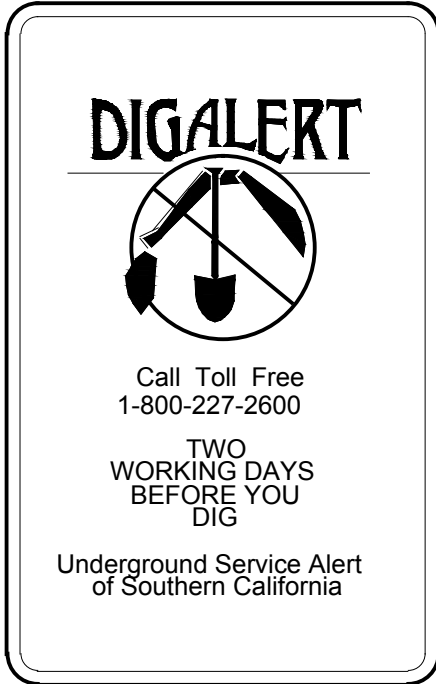
IRRIGATION MATERIAL LEGEND						
SYMBOL	DESCRIPTION	MFG / MODEL NO.	PSI	GPM	RADIUS/ SPACING	DETAIL
●	POP-UP SPRAYHEAD	HUNTER PROS-06-PRS40-CV -MP3000360, GRAY	40	3.64	30"/28"	E13/L603
○	POP-UP SPRAYHEAD	HUNTER PROS-06-PRS40-CV -MP2000360, RED	40	1.47	19'/18"	E13/L603
◐	POP-UP SPRAYHEAD	HUNTER PROS-06-PRS40-CV -MP300090, BLUE	40	1.82 (HALF)	30"/28"	E13/L603
◑	POP-UP SPRAYHEAD	HUNTER PROS-06-PRS40-CV -MP200090, BLACK	40	0.74 (HALF)	19'/18"	E13/L603
◒	POP-UP SPRAYHEAD	HUNTER PROS-06-PRS40-CV -MP100090, MAROON	40	0.37 (HALF)	14'/12"	E13/L603
◓	POP-UP SPRAYHEAD	HUNTER PROS-06-PRS40-CV -MPCORNER, TURQUOISE	40	0.19 (45°)	14'/12"	E13/L603
■	ROOT WATERING SYSTEM	RAINBIRD RWS-M-B-C-1402	30	0.5	--	A13/L604

IRRIGATION MATERIAL LEGEND (CONTINUED)				
SYMBOL	MFG	DESCRIPTION	MODEL NO.	REMARKS:
C	LEIT	8 STA. SOLAR CONTROLLER AND 32" MOUNTING POLE W/ STAINLESS STEEL ENCLOSURE AND PROGRAMMING KEY AND SENSOR ADAPTER	LEIT4008, MCOL 4000, ENCL4000, LEIT KEY, SKIT 8821-4	SEE PLAN FOR LOCATION. CONTRACTOR TO COORD. ALL WORK WITH BUREAU OF SANITATION MAINTENANCE SUPERVISOR. INSTALL PER MANUFACTURER'S SPECS. AND RECOMMENDATIONS
P	WILKINS	LINE-SIZED PRESSURE REGULATING VALVE	500 SERIES	INSTALL PER MANUFACTURER'S SPECS. AND RECOMMENDATIONS
M	RAINBIRD	2" MASTER VALVE	200-GB-R	INSTALL PER MANUFACTURER'S SPECS. AND RECOMMENDATIONS
⦿	RAINBIRD	ELECTRIC REMOTE CONTROL VALVE - SIZE PER PLAN	GB-R SERIES	SEE PLAN FOR SIZES AND LOCATION. INSTALL PER MANUFACTURER'S SPECS. AND RECOMMENDATIONS
⌘	FEBCO	NEW 2" BACKFLOW PREVENTER	825Y	INSTALL ENCLOSURE PER DETAIL.
⊗	NIBCO	LINE-SIZED GATE VALVE	T-113 OR AS SPECIFIED IN DETAIL	SEE PLAN FOR LOCATIONS.
⦿	RAINBIRD	1" TWO PIECE, QUICK COUPLER VALVE W/ 44KEY AND SH-1 HOSE SWIVEL, PROVIDE 3/4" DIA. GALV. STEEL PIPE SECURED TO Q.C. VALVE W/2 STAINLESS STEEL CLAMPS	44-LRC	INSTALL PER DETAIL AS APPROPRIATE ON MAINLINE AT LOCATIONS SHOWN ON PLAN.
W	HUNTER	RAIN SENSOR W/ CONDUIT MOUNT	MINI-CLIK-C	SEE PLAN FOR LOCATION.
M	--	NEW 1-1/2" WATER METER	--	CONTRACTOR TO PROVIDE SERVICE

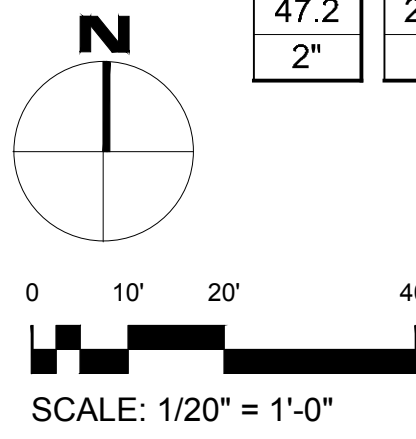
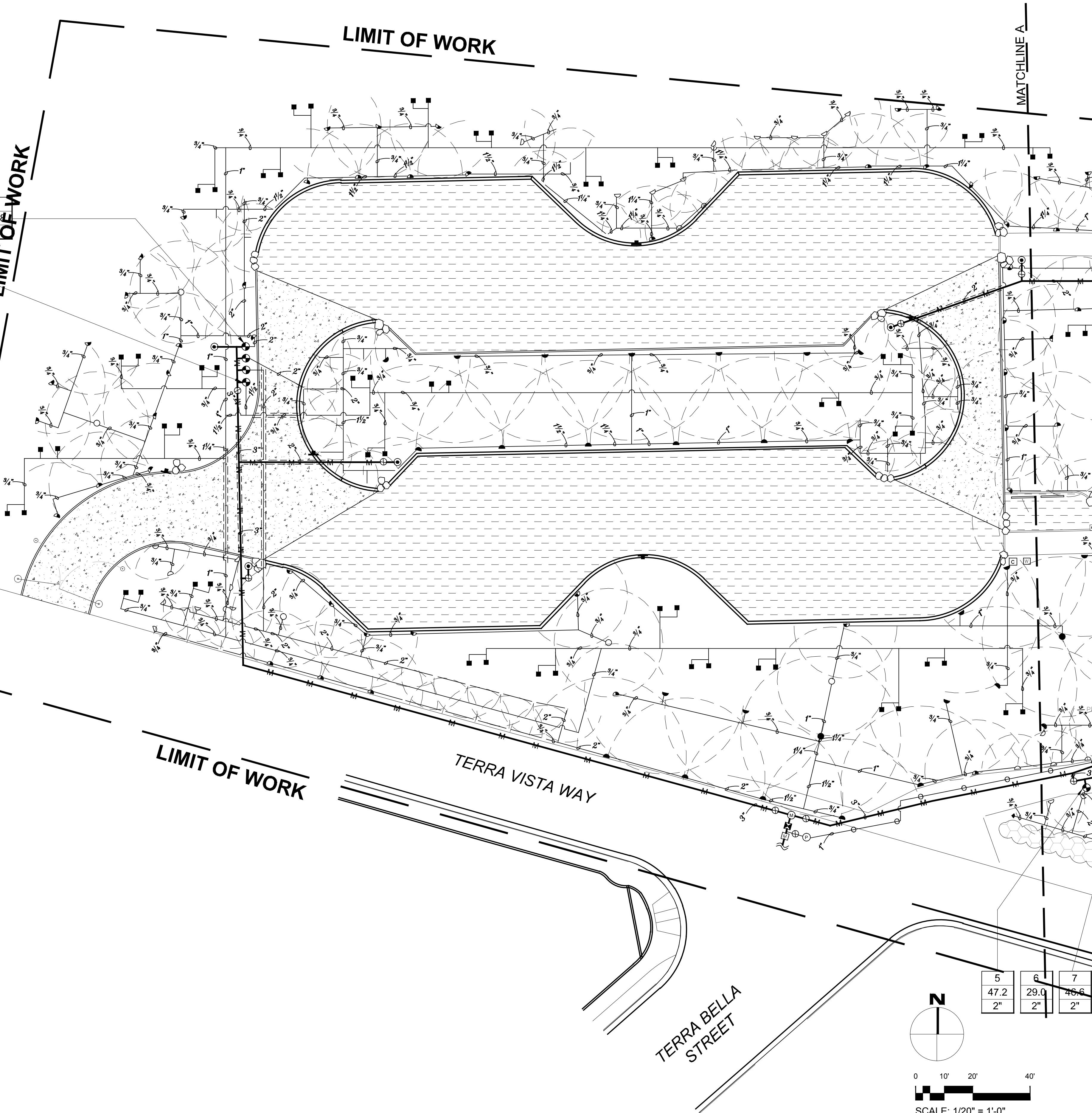
IRRIGATION MATERIAL LEGEND (CONTINUED)	
SYMBOL	DESCRIPTION
	NEW IRRIGATION PRESSURE MAINLINE - SIZE AS NOTED ON PLAN --2" AND SMALLER: SCH. 40 PVC, SOLVENT WELD, 3" AND LARGER: CLASS 200 PVC (INSTALL MIN. 24" BELOW FINISH GRADE). SEE DET. E9/L603 AND J9/L603.
	NEW DOMESTIC WATER LINE - TYPE 'L' COPPER PIPE. SEE DET. E9/L603 FOR INSTALLATION. SEE PLAN DETAIL, L601 FOR P.O.C. LOCATION. INSTALL WITH MIN. 24" OF COVER.
	NEW IRRIGATION NON-PRESSURE LATERAL - SCH. 40 PVC UP TO 2", 2" UP TO 3" CLASS 200 PVC (INSTALL MIN. 12" BELOW FINISH GRADE. SEE DET. E9/L603.
	P.V.C. SLEEVE (UNDER ALL PAVING) - SCH. 40 P.V.C. 2X DIA. OF PIPE (INSTALL MIN. 36" BELOW FINISH GRADE). SEE DET. E9/L603 FOR INSTALLATION.
NOT SHOWN	PROVIDE 2" SCH. 40 P.V.C. SLEEVING FOR ALL WIRING. SEE DET. E9/L603, J13/L603.
1	STATION SEQUENCE
30	FLOW (GPM)
2"	VALVE SIZE

LEGEND

- CRUSHED AGGREGATE PAVEMENT
- CONCRETE PAVEMENT
- STA-LOK NATURAL PAVEMENT SURFACE
- GRADED AND COMPACTED NATIVE SOIL AT 95% COMPACTION
- EXISTING BOULDERS



1	2	3	4
30.0	49.6	31.5	38.8
2"	2"	2"	2"



5	6	7
47.2	29.0	46.6
2"	2"	2"

REVISION DATE: 5/18/2012 7:51 AM
FILE: D:\LOPEZ\ON EQUESTRIAN HORSE TRAIL\DRAWINGS\Irrigation\Irrigation.dwg
REVISION DATES (DESIGN STAGE ONLY)

BUREAU OF ENGINEERING

LA DWP
ENGINEERING
Sustaining the Future

DATE: _____ BY: _____

NO. REVISIONS: _____

BUILDING NO. **XXXX**

INDEX NO. **-**

LANDSCAPE ARCHITECT * **REGISTERED**

INSITHI DHANDHA
No. 5135
Signature
Renewed Date _____

GARY LEE MOORE, P.E. CITY ENGINEER

ARCHITECTURAL DIVISION

ARCHITECT: INSITHI DHANDHA LIC. NO. 5135

DESIGNED BY: INSITHI DHANDHA

DRAWN BY: INSITHI DHANDHA

CHECKED BY: JANE ADRIAN

APPROVED BY: MAHMOOD KARIMZADEH, A.I.A., PRINCIPAL ARCHITECT

CITY OF LOS ANGELES

CLIENT: BUREAU OF SANITATION
DIRECTOR: ENRIQUE C. ZALDIVAR

SHEET TITLE: **IRRIGATION PLAN, SHEET 1**

PROJECT: **LOPEZ CANYON EQUESTRIAN STAGING AREA**

ADDRESS: **11950 LOPEZ CANYON ROAD,
LOS ANGELES, CA 91342**

WORK ORDER NO. **E1906881**








FILE NO. **---**










DRAWING NO. **L601**

SHEET **OF** SHEETS

PLOTTED: 5/18/2012 10:15 AM

1. IRRIGATION PLANS ARE DIAGRAMMATIC. ALL LINES SHALL BE PLACED PER DETAIL AND SPECIFICATION AND WHERE POSSIBLE WITHIN THE LANDSCAPE AREAS, SLEEVE WHERE NECESSARY.
2. CONTRACTOR TO COORDINATE ALL WORK WITH THE ASSIGNED CITY DEPARTMENT'S LANDSCAPE MAINTENANCE GROUP. PROJECT MANAGER TO PROVIDE CONTACT INFORMATION.
3. CONTRACTOR SHALL PROVIDE 100% HEAD TO HEAD COVERAGE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING AND RE-SETTING IRRIGATION BOXES, HEADS AND OTHER EXISTING EQUIPMENT TO REMAIN AFFECTED DURING CONSTRUCTION AND GRADING TO PROPER HEIGHTS RELATIVE TO FINISH GRADE.
4. VALVE MANIFOLDS SHALL BE PLACED IN LANDSCAPED AREAS ADJACENT TO HARDESCAPED PATHS.
5. STATIC WATER PRESSURE VARIES FROM A HIGH OF 128 PSI TO A LOW OF 71 PSI PER INFORMATION PROVIDED BY LA DEPARTMENT OF WATER AND POWER ON 04/18/12. CONTRACTOR TO VERIFY AVAILABLE PRESSURE WITH PRIOR TO COMMENCEMENT OF IRRIGATION WORK.

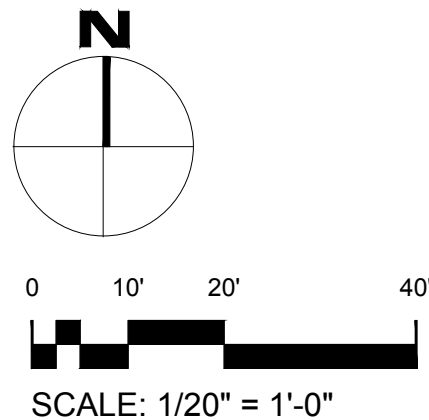
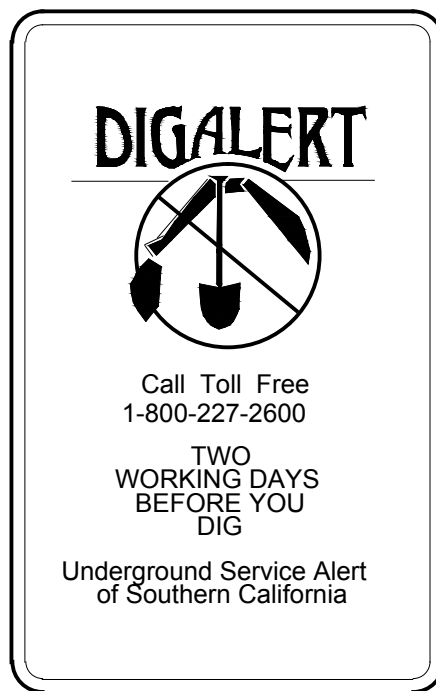
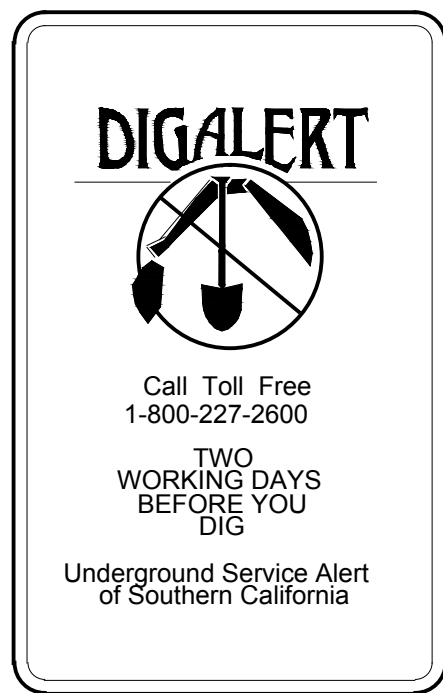
IRRIGATION MATERIAL LEGEND							
SYMBOL	DESCRIPTION	MFG / MODEL NO.	PSI	GPM	RADIUS/ SPACING	DETAIL	REMARKS:
	POP-UP SPRAYHEAD	HUNTER PROS-06-PRS40-CV -MP3000360, GRAY	40	3.64	30'/28"	E13/L603	ADJUST IN FIELD.
	POP-UP SPRAYHEAD	HUNTER PROS-06-PRS40-CV -MP2000360, RED	40	1.47	19'/18"	E13/L603	ADJUST IN FIELD.
	POP-UP SPRAYHEAD	HUNTER PROS-06-PRS40-CV -MP300090, BLUE	40	1.82 (HALF)	30'/28"	E13/L603	ADJUST IN FIELD.
	POP-UP SPRAYHEAD	HUNTER PROS-06-PRS40-CV -MP200090, BLACK	40	0.74 (HALF)	19'/18"	E13/L603	ADJUST IN FIELD.
	POP-UP SPRAYHEAD	HUNTER PROS-06-PRS40-CV -MP100090, MAROON	40	0.37 (HALF)	14'/12"	E13/L603	ADJUST IN FIELD.
	POP-UP SPRAYHEAD	HUNTER PROS-06-PRS40-CV -MPCORNER, TURQUOISE	40	0.19 (45°)	14'/12"	E13/L603	ADJUST IN FIELD.
	ROOT WATERING SYSTEM	RAINBIRD RWS-M-B-C-1402	30	0.5	--	A13/L604	ADJUST IN FIELD.

IRRIGATION MATERIAL LEGEND					(CONTINUED)
SYMBOL	MFG	DESCRIPTION	MODEL NO.	DETAIL	REMARKS:
	LEIT	8 STA. SOLAR CONTROLLER AND 32" MOUNTING POLE W/ STAINLESS STEEL ENCLOSURE AND PROGRAMMING KEY AND SENSOR ADAPTER	LEIT4008, MCOL 4000, ENCL4000, LEIT KEY, SKIT 8821-4	E13/L604	SEE PLAN FOR LOCATION. CONTRACTOR TO COORD. ALL WORK WITH BUREAU OF SANITATION MAINTENANCE SUPERVISOR. INSTALL PER MANUFACTURER'S SPECS. AND RECOMMENDATIONS
	WILKINS	LINE-SIZED PRESSURE REGULATING VALVE	500 SERIES	--	INSTALL PER MANUFACTURER'S SPECS. AND RECOMMENDATIONS
	RAINBIRD	2" MASTER VALVE	200-GB-R	E5/L603	INSTALL PER MANUFACTURER'S SPECS. AND RECOMMENDATIONS
	RAINBIRD	ELECTRIC REMOTE CONTROL VALVE - SIZE PER PLAN	GB-R SERIES	E5/L603 A5/L603 A9/L603	SEE PLAN FOR SIZES AND LOCATION. INSTALL PER MANUFACTURER'S SPECS. AND RECOMMENDATIONS
	FEBCO	NEW 2" BACKFLOW PREVENTER	825Y	E1/L603 A1/L603	INSTALL ENCLOSURE PER DETAIL.
	NIBCO	LINE-SIZED GATE VALVE	T-113 OR AS SPECIFIED IN DETAIL	A9/L604 J1/L603	SEE PLAN FOR LOCATIONS.
	RAINBIRD	1" TWO PIECE, QUICK COUPLER VALVE W/ 4KEY AND 3/4-1 HOSE SWIVEL. PROVIDE 3/4" DIA. GALV. STEEL PIPE SECURED TO Q.C. VALVE W/2 STAINLESS STEEL CLAMPS	44-LRC	J5/L603 E9/L604	INSTALL PER DETAIL AS APPROPRIATE ON MAINLINE AT LOCATIONS SHOWN ON PLAN.
	HUNTER	RAIN SENSOR W/ CONDUIT MOUNT	MINI-CLIK-C	J13/L604	SEE PLAN FOR LOCATION.
	--	NEW 1-1/2" WATER METER	--	--	CONTRACTOR TO PROVIDE SERVICE

IRRIGATION MATERIAL LEGEND		(CONTINUED)
SYMBOL	DESCRIPTION	
	NEW IRRIGATION PRESSURE MAINLINE - SIZE AS NOTED ON PLAN --2" AND SMALLER: SCH. 40 PVC, SOLVENT WELD, 3" AND LARGER: CLASS 200 PVC (INSTALL MIN. 24" BELOW FINISH GRADE). SEE DET. E9/L603 AND J9/L603.	
	NEW DOMESTIC WATER LINE - TYPE 'L' COPPER PIPE. SEE DET. E9/L603 FOR INSTALLATION. SEE PLAN DETAIL, L601 FOR P.O.C. LOCATION. INSTALL WITH MIN. 24" OF COVER.	
	NEW IRRIGATION NON-PRESSURE LATERAL - SCH. 40 PVC UP TO 2", 2" UP TO 3" CLASS 200 PVC (INSTALL MIN. 12" BELOW FINISH GRADE. SEE DET. E9/L603.	
	P.V.C. SLEEVE (UNDER ALL PAVING) - SCH. 40 P.V.C. 2X DIA. OF PIPE (INSTALL MIN. 36" BELOW FINISH GRADE). SEE DET. E9/L603 FOR INSTALLATION.	
NOT SHOWN	PROVIDE 2" SCH. 40 P.V.C. SLEEVING FOR ALL WIRING. SEE DET. E9/L603, J13/L603.	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 1 30 2" </div>	STATION SEQUENCE FLOW (GPM) VALVE SIZE	

Diagram illustrating five pavement types:

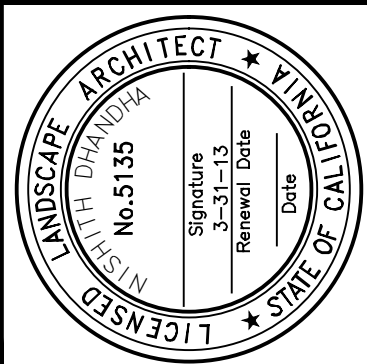
- CRUSHED AGGREGATE PAVEMENT
- CONCRETE PAVEMENT
- STA-LOK NATURAL PAVEMENT SURFACE
- GRADED AND COMPACTED NATIVE SOIL AT 95% COMPACTION
- EXISTING BOULDERS



NOT FOR
CONSTRUCTION

BUREAU OF ENGINEERING

△ NO.	REVISIONS:	DATE:	BY:
△			

[illegible][illegible][illegible]

GARY LEE MOORE, P.E. CITY ENGINEER

ARCHITECT: NISHITH DHANDHA	LIC. NO. 5135	DATE:
----------------------------	---------------	-------

DESIGNED BY: NISHITH DHANDHA	

DRAWN BY: NISHITH DHANDHA

CHECKED BY: JANE ADRIAN	
APPROVED BY: MAHMOOD KADIMZADEH AIA PRINCIPAL ARCHITECT	

CLIENT: BUREAU OF SANITATION	WORK
DIRECTOR: ENRIQUE C. ZALDIVAR	FILE
	DRAW
	SHEET

SHEET TITLE: BRIGATION PLAN, SHEET 2

ORDER NO. 906

NO. 60

OF

PROJECT: LOPEZ CANYON EQUESTRIAN STAGING AREA

2
SHEET:

WORK ORDER NO.
E1906881

FILE NO.	---
DRAWING NO.	

1602

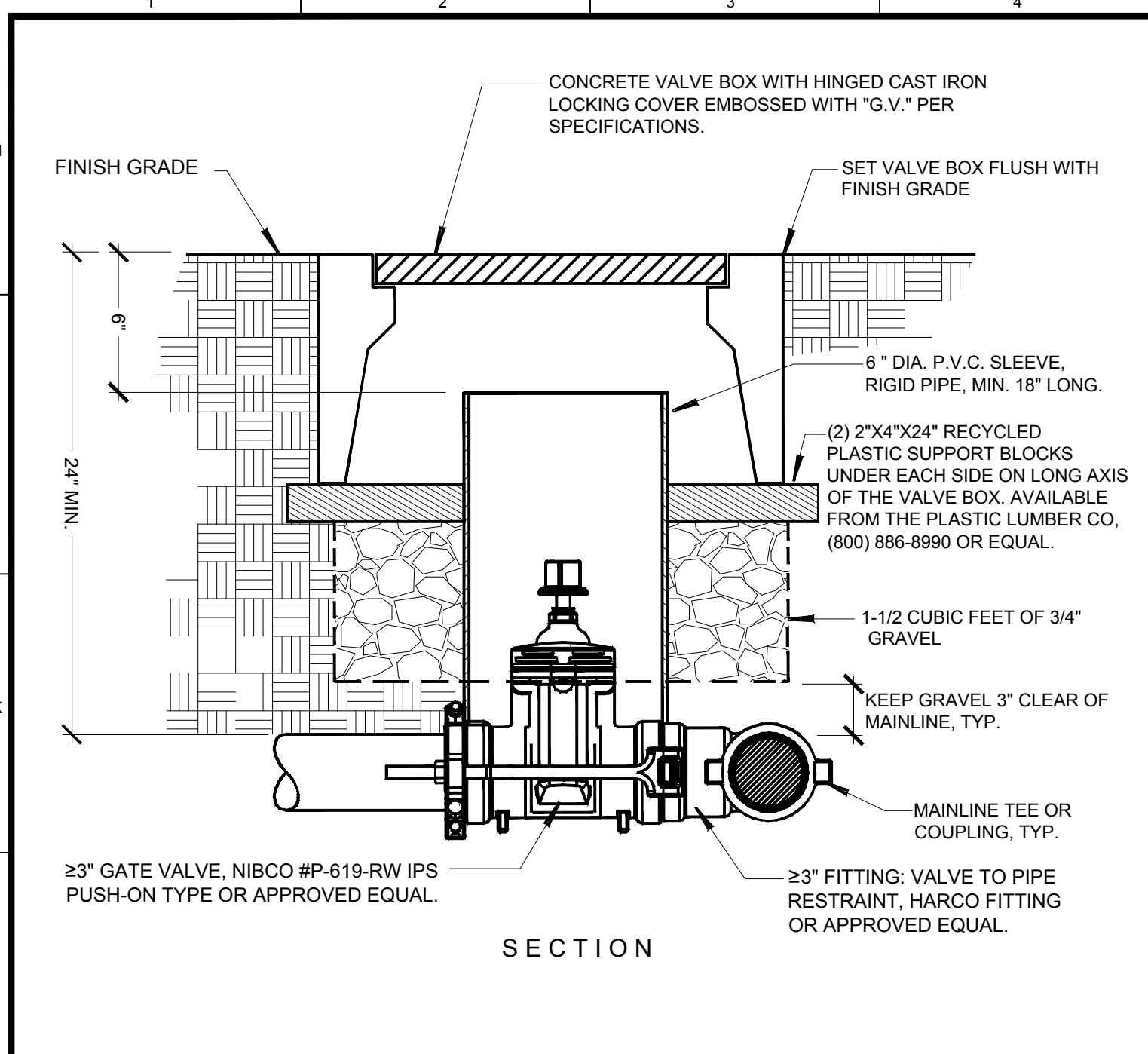
SHEET

REVISION DATE: 5/18/2012 7:51 AM FILE: D:\LOPEZ CYN-EQUESTRIAN-HORSE TRAIL\DRAWINGS\LCE-IRR.DWG

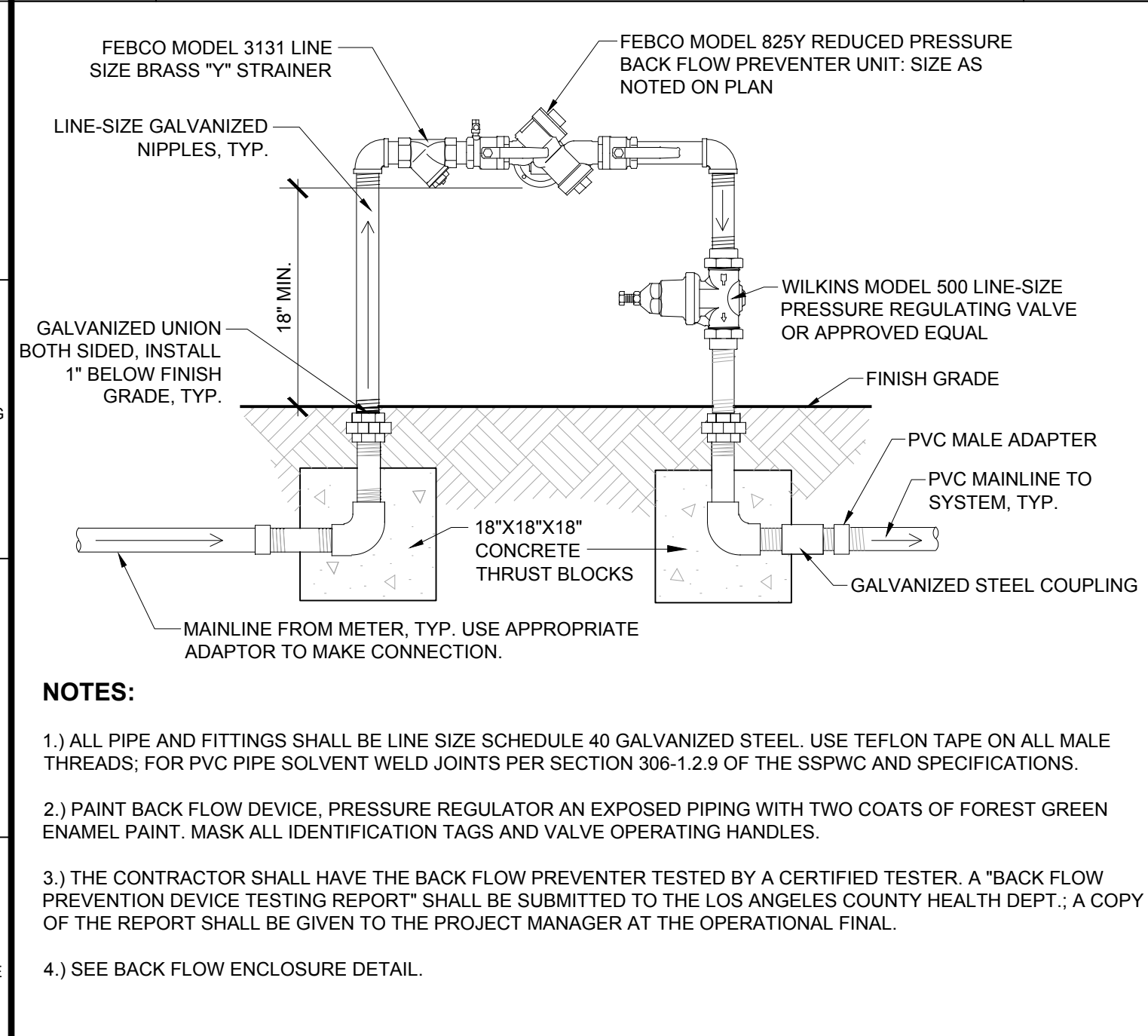
THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Sheet Version 2.2

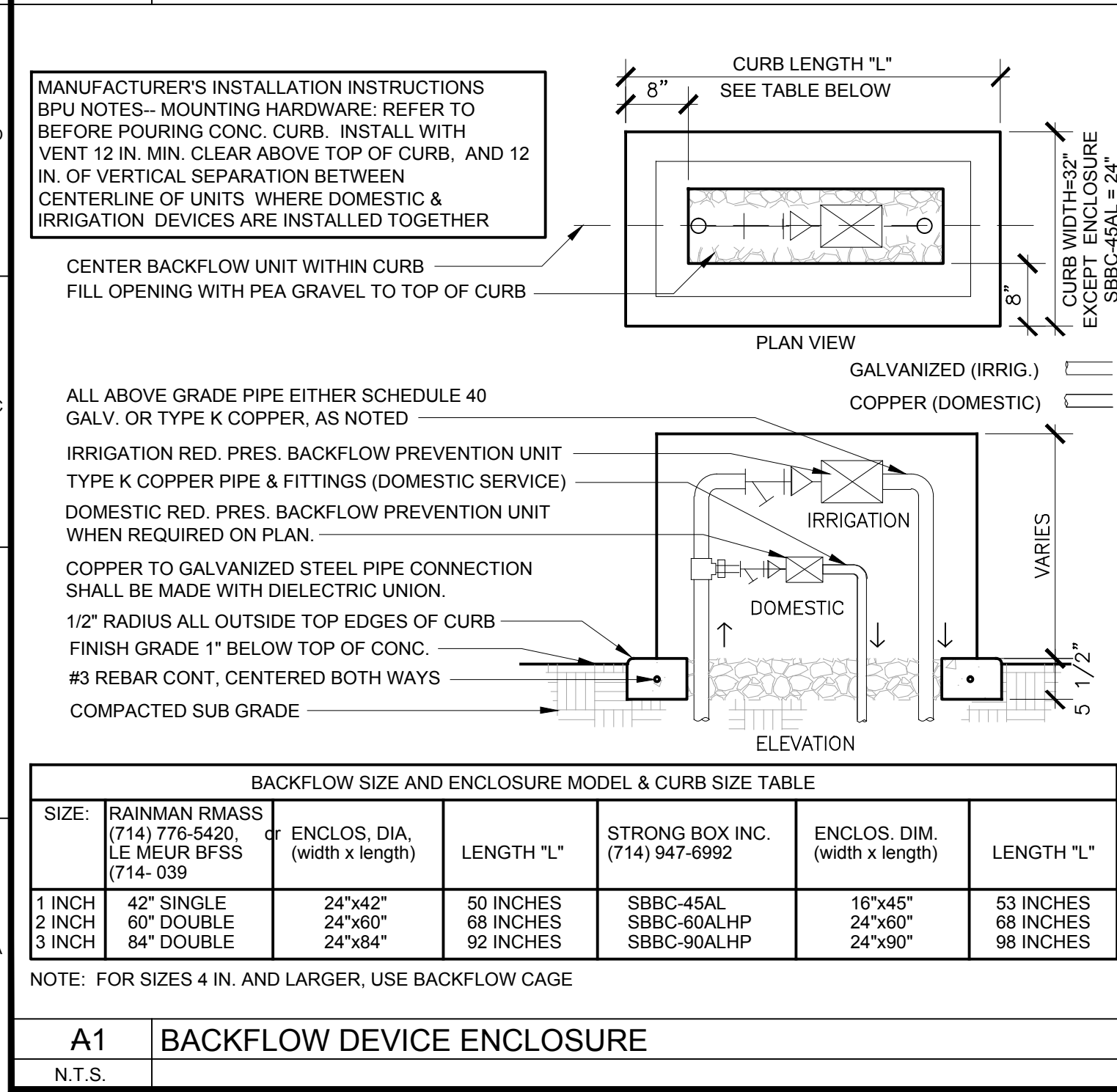
REVISION DATE: 5/17/2012 10:08 AM
FILE: D:\LOPEZ\CYNEQUESTRIAN\HORSE TRAIL DRAWINGS\SLICE - IRRIG.DWG
REVISION DATES (DESIGN STAGE ONLY)
A
B
C
D
E
F
G
H
J
K
L
M



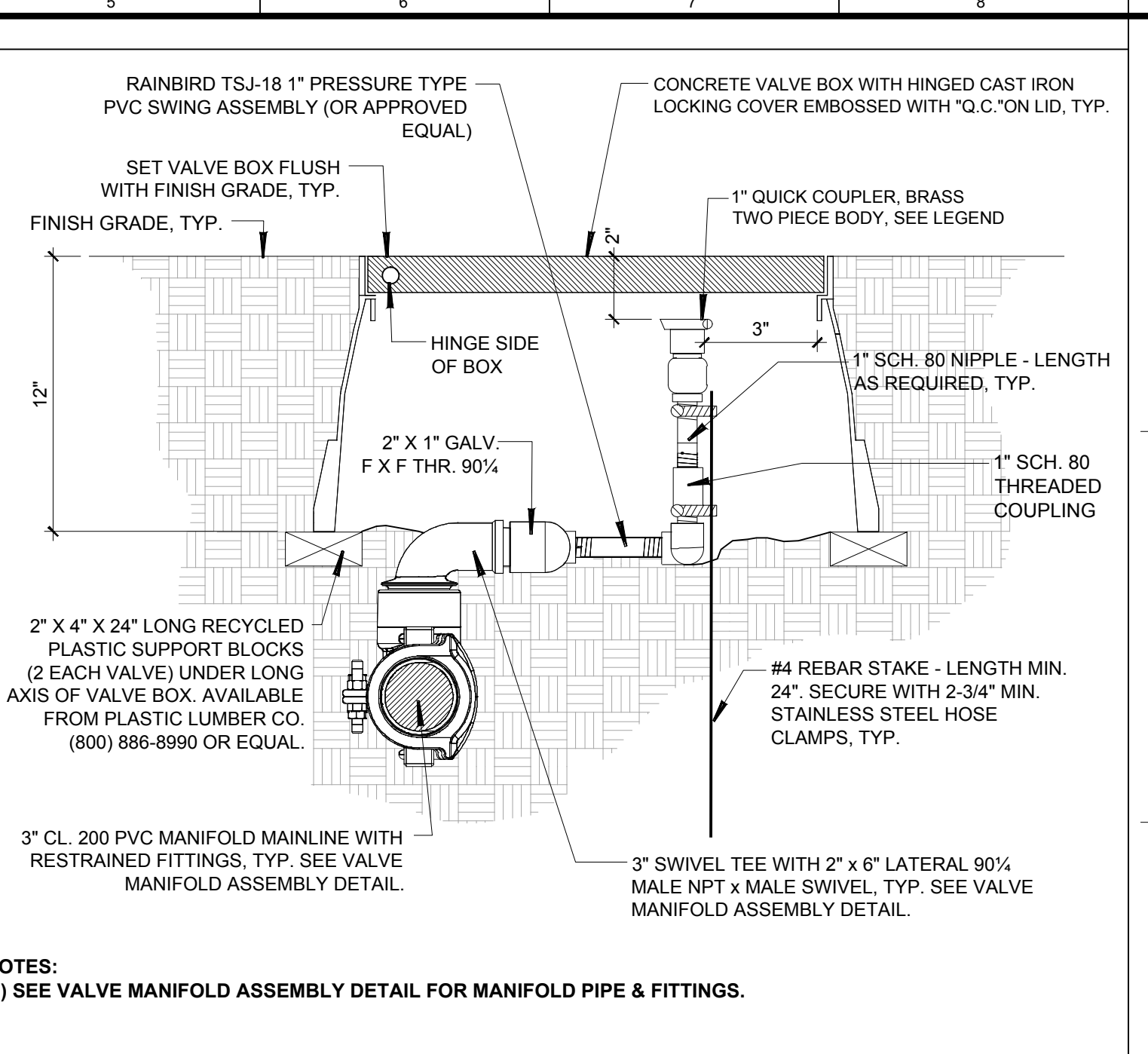
J1 24" GATE VALVE INSTALLATION AT TEE
N.T.S. RP DETAIL 110



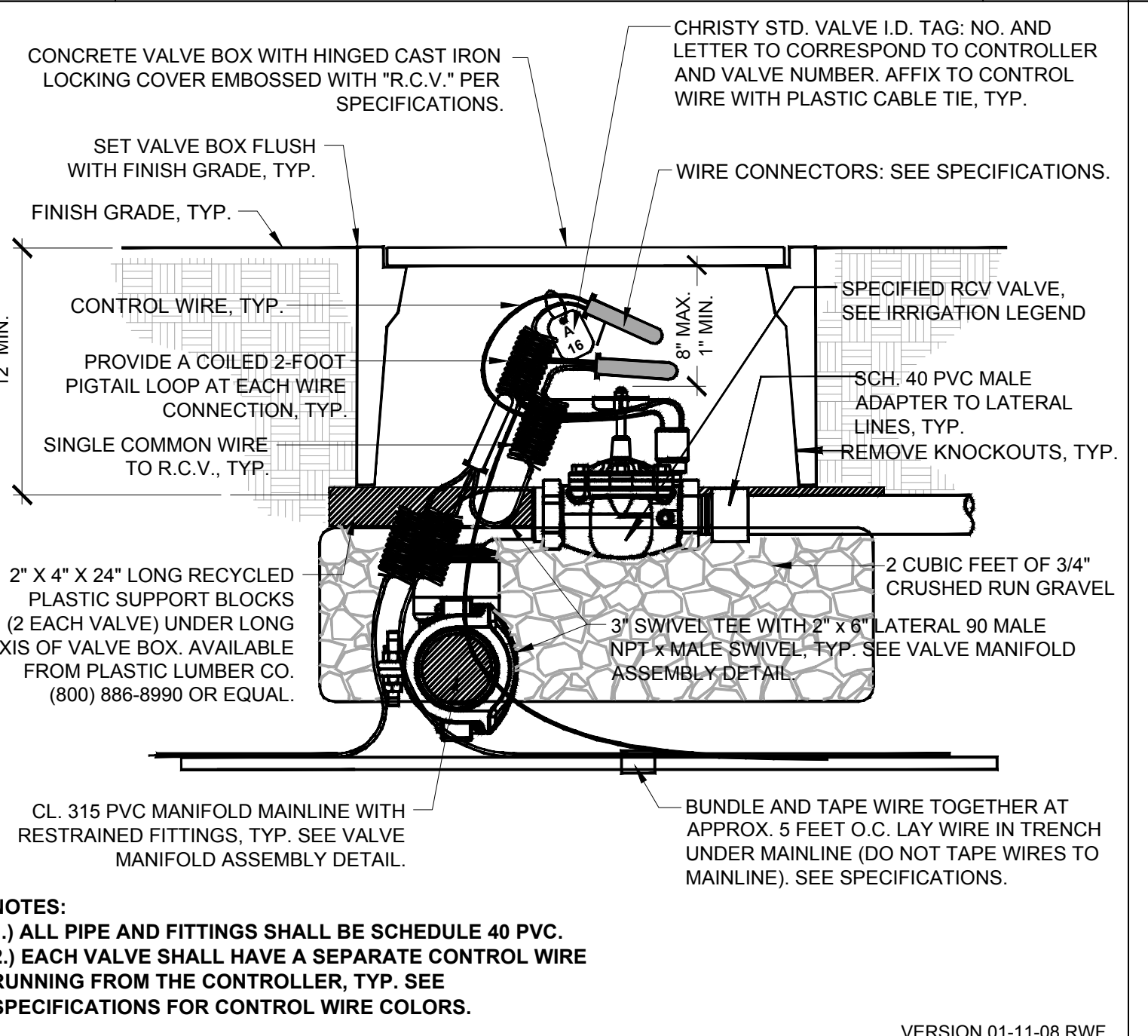
E1 BACKFLOW PREVENTION UNIT, 3/4" TO 3" SIZE
N.T.S.



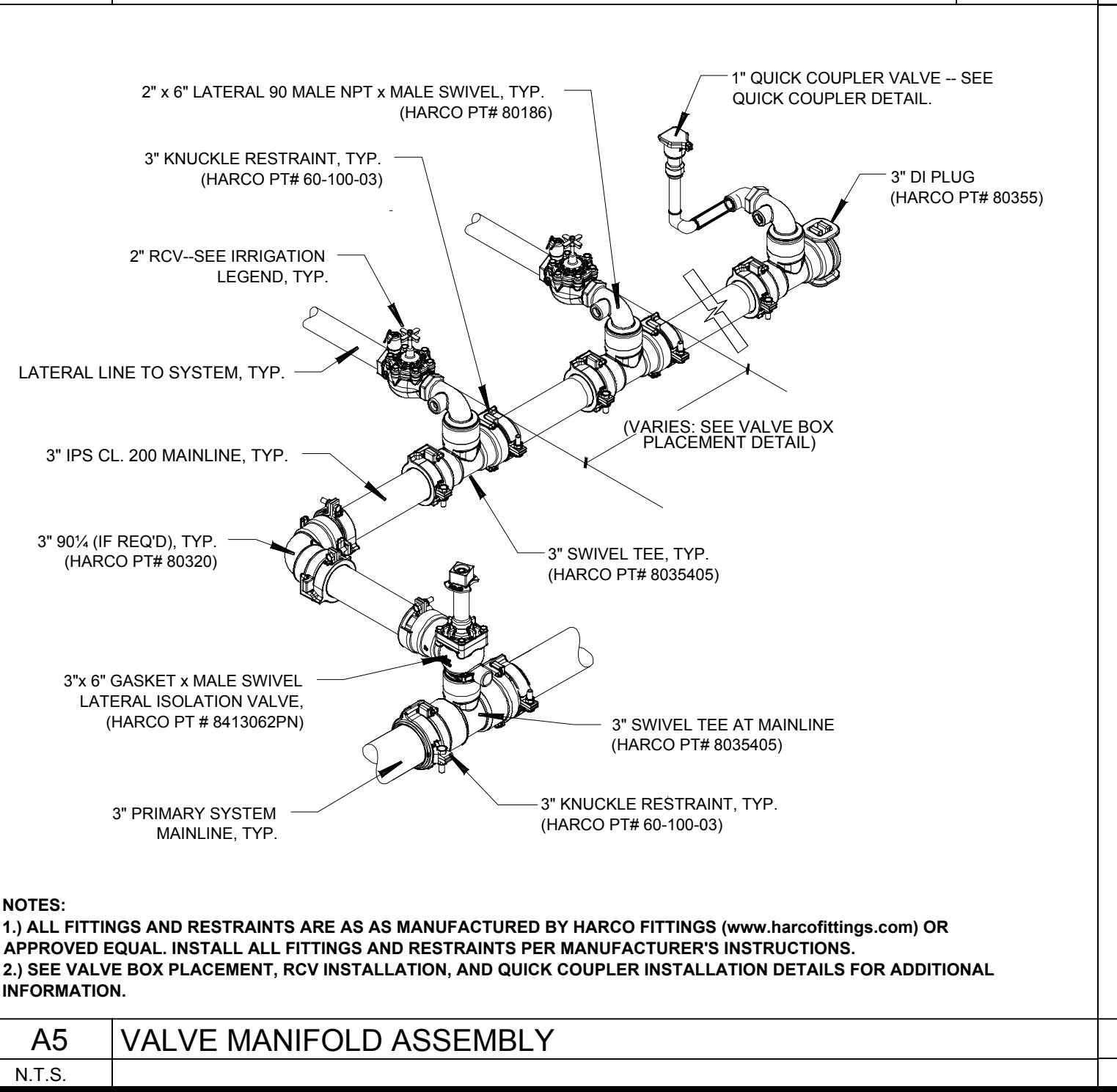
A1 BACKFLOW DEVICE ENCLOSURE
N.T.S.



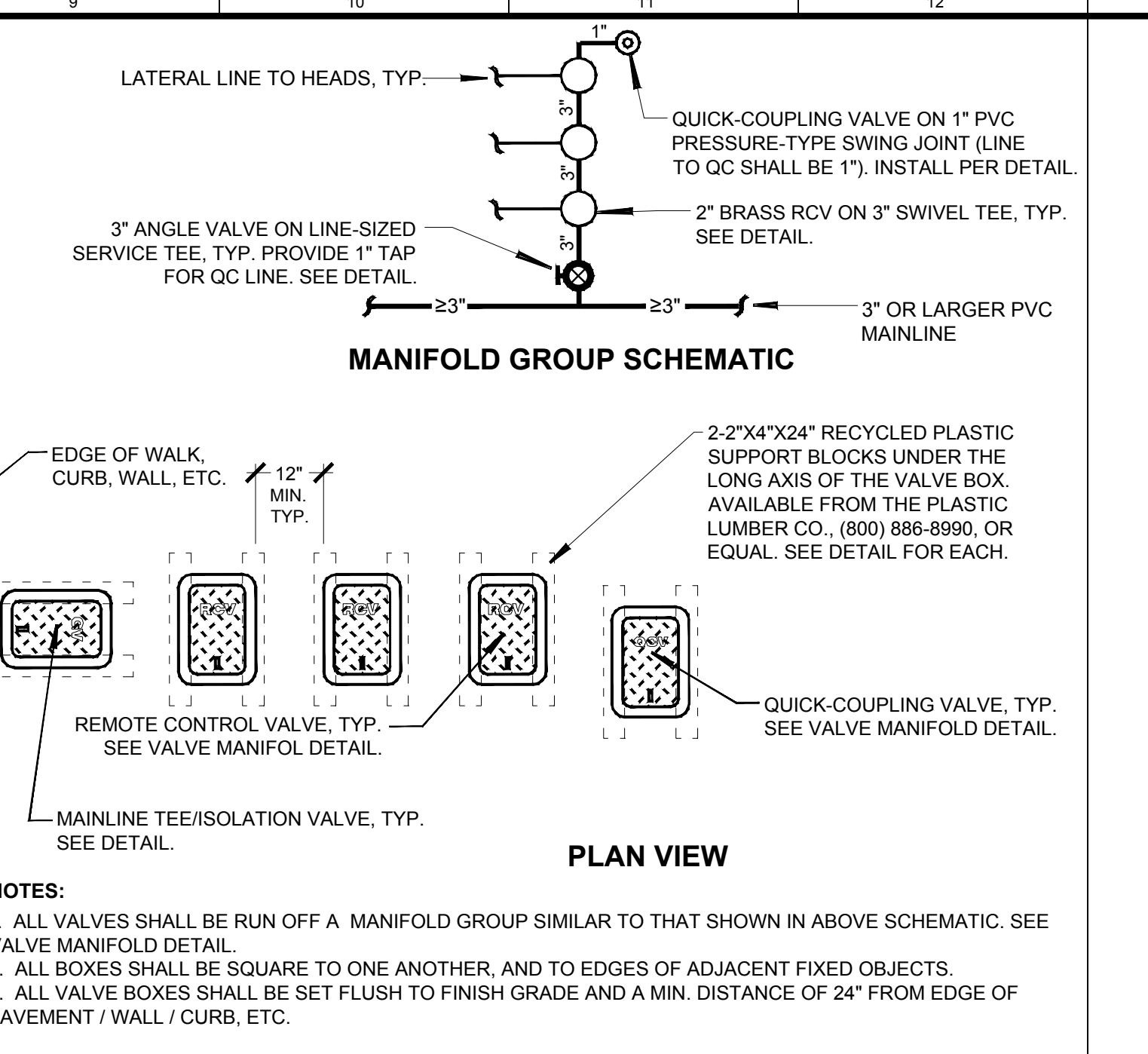
J5 QUICK COUPLER INSTALLATION (MAINLINE 3" OR LARGER)
N.T.S. RP DETAIL ---



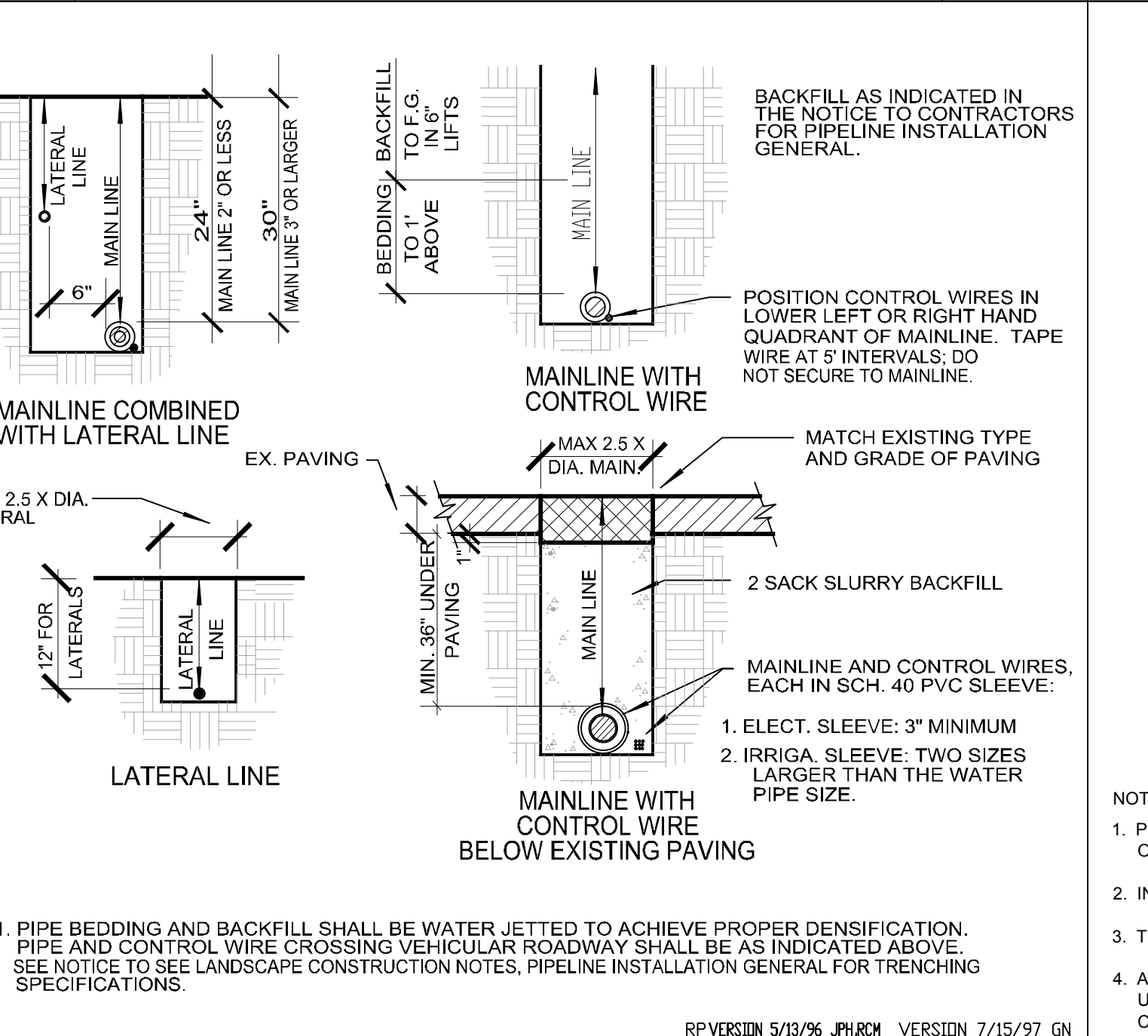
E5 RCV INSTALLATION DETAIL
N.T.S. RP DETAIL 140



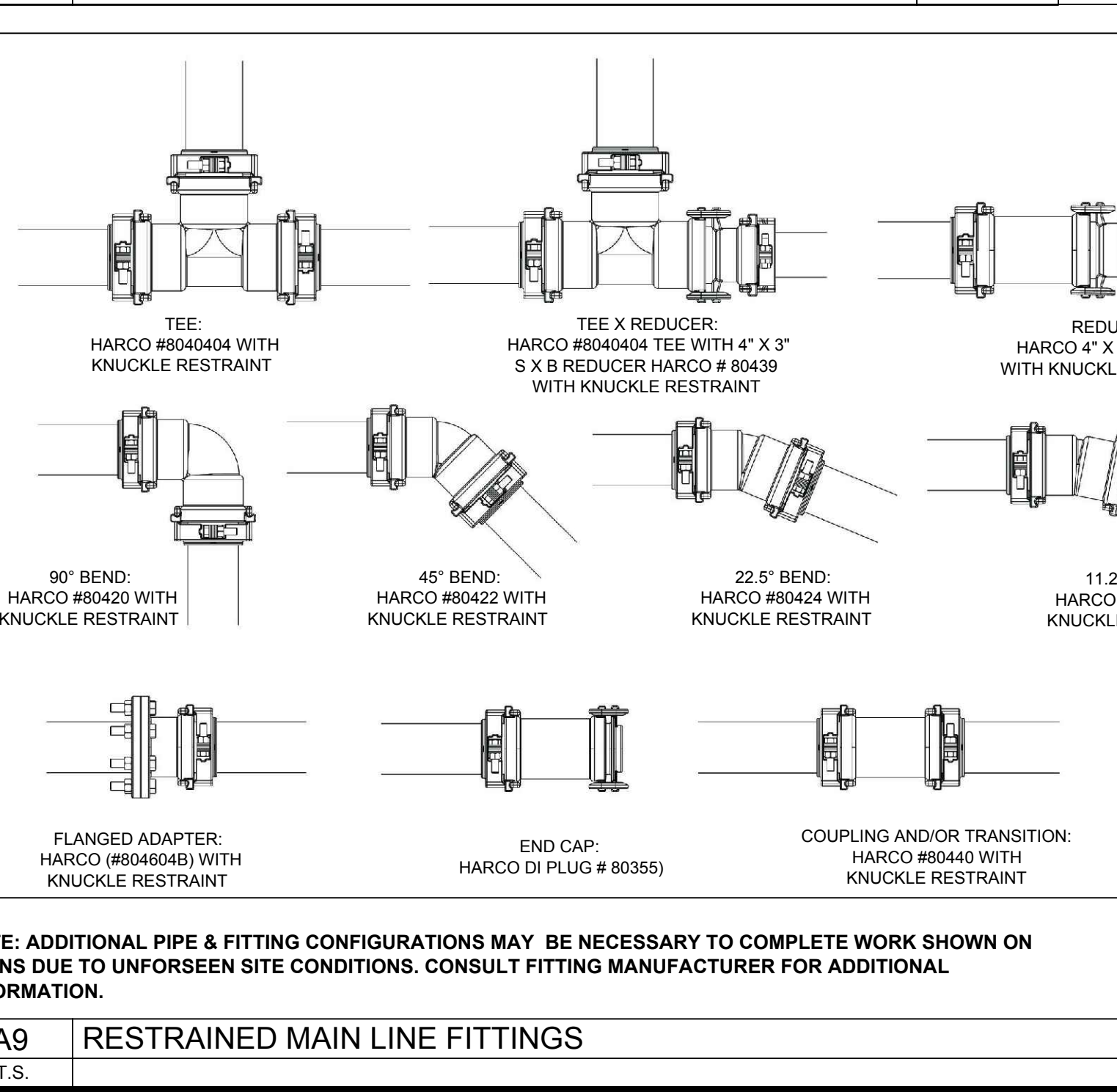
A5 VALVE MANIFOLD ASSEMBLY
N.T.S.



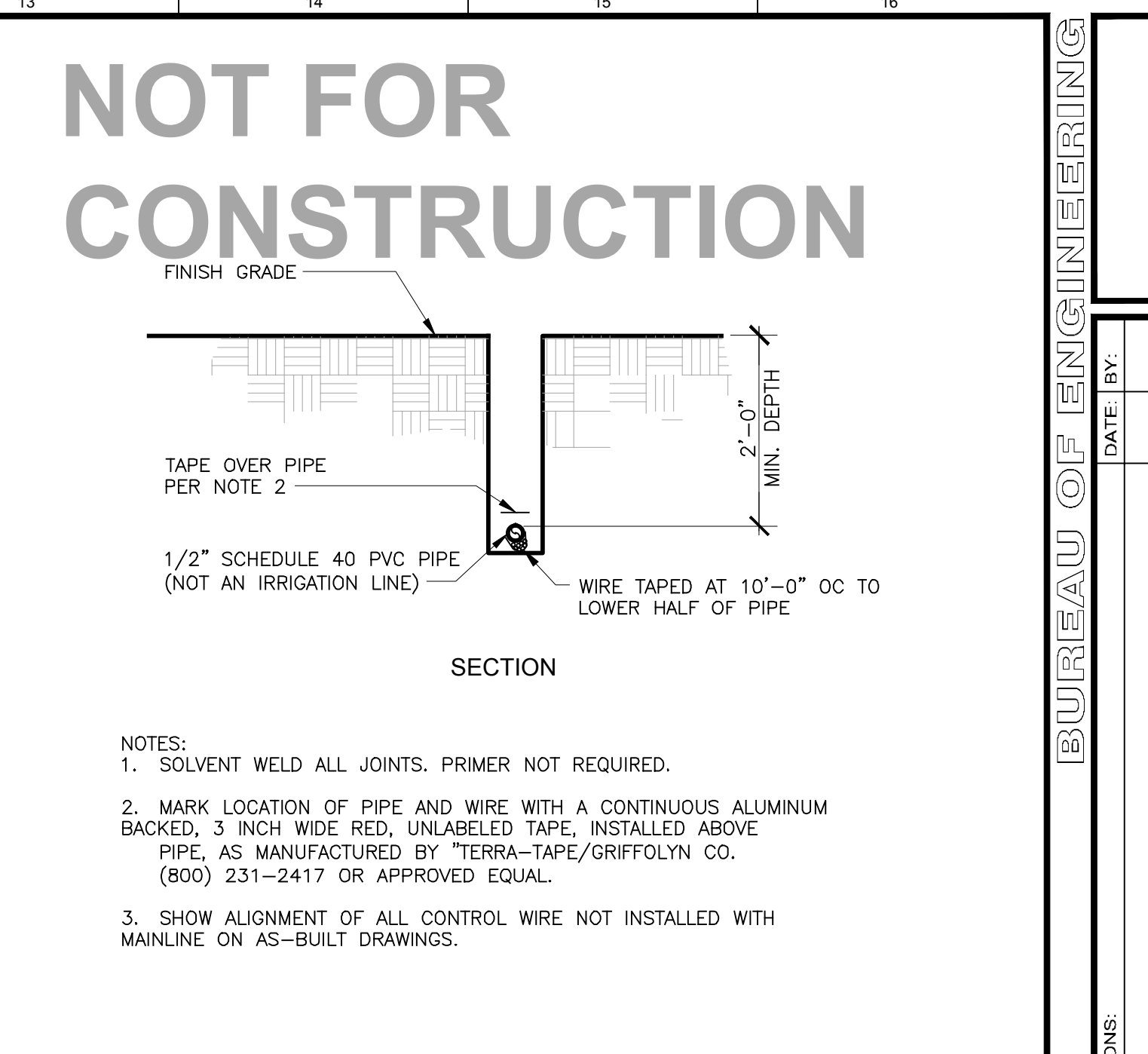
J9 VALVE BOX PLACEMENT
N.T.S. RP DETAIL 140



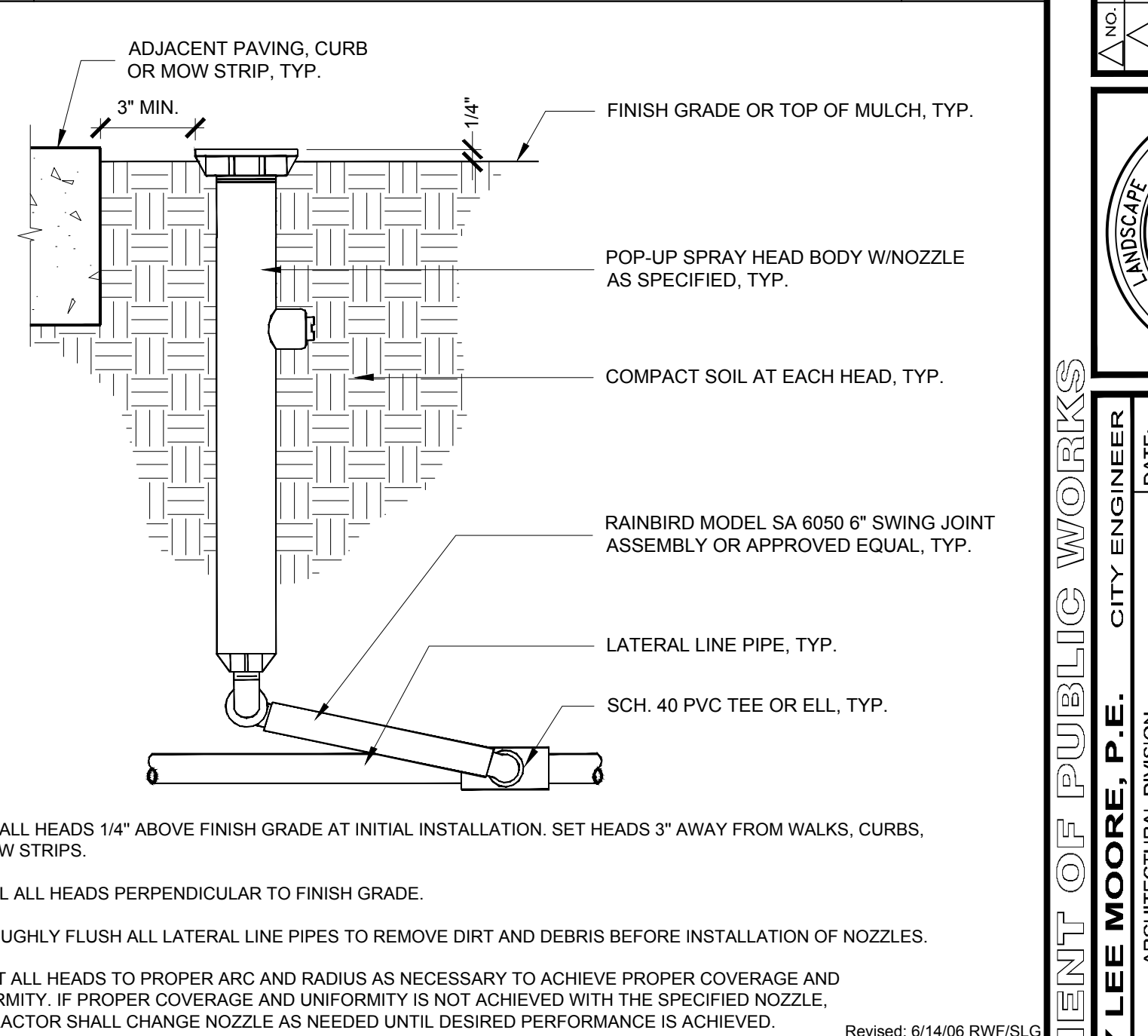
E9 IRRIGATION TRENCHING DETAIL
N.T.S. RP DETAIL 135



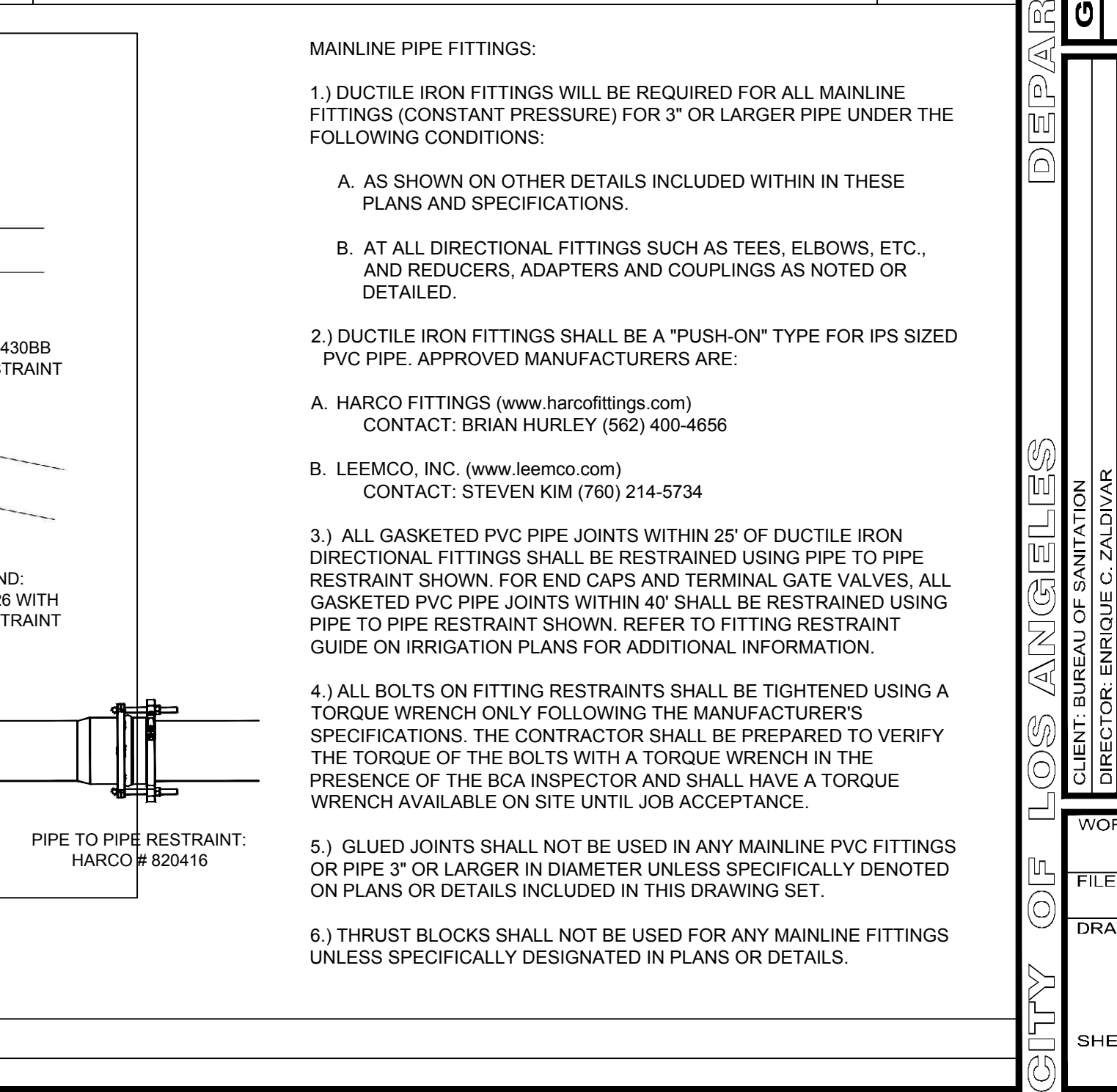
A9 RESTRAINED MAIN LINE FITTINGS
N.T.S.



J13 CONTROL WIRE WITH OUT MAINLINE
3/4" = 1'-0" RP DETAIL 142



E13 POP-UP SPRAY HEAD INSTALLATION
N.T.S. RP DETAIL 162



A3 MAINLINE PIPE FITTINGS
N.T.S.

LA DWG
ENGINEERING
Sustainable Design
Disrupting the Future

REVISIONS:
NO. DATE BY
1
2
3
4
5

BUILDING NO. XXXX
INDEX NO. -

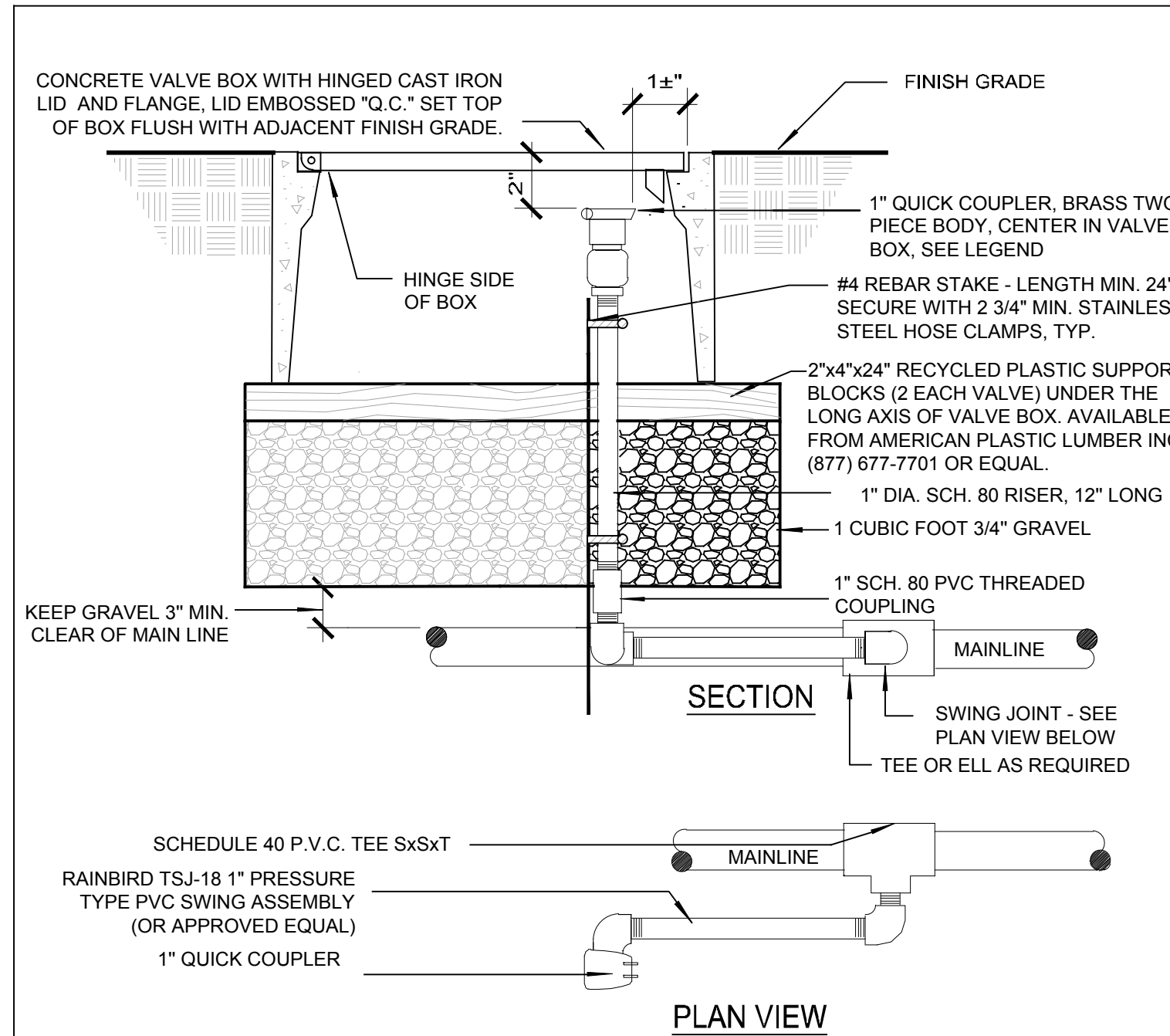
LANDSCAPE ARCHITECT
INSITH DHANDHA
No. 5135
Signature
Retained Date
Date

ARCHITECT: INSITH DHANDHA
DESIGNED BY: INSITH DHANDHA
DRAWN BY: INSITH DHANDHA
CHECKED BY: JANE ADRIAN
APPROVED BY: MAHMOOD KARIMZADEH, A.I.A., PRINCIPAL ARCHITECT

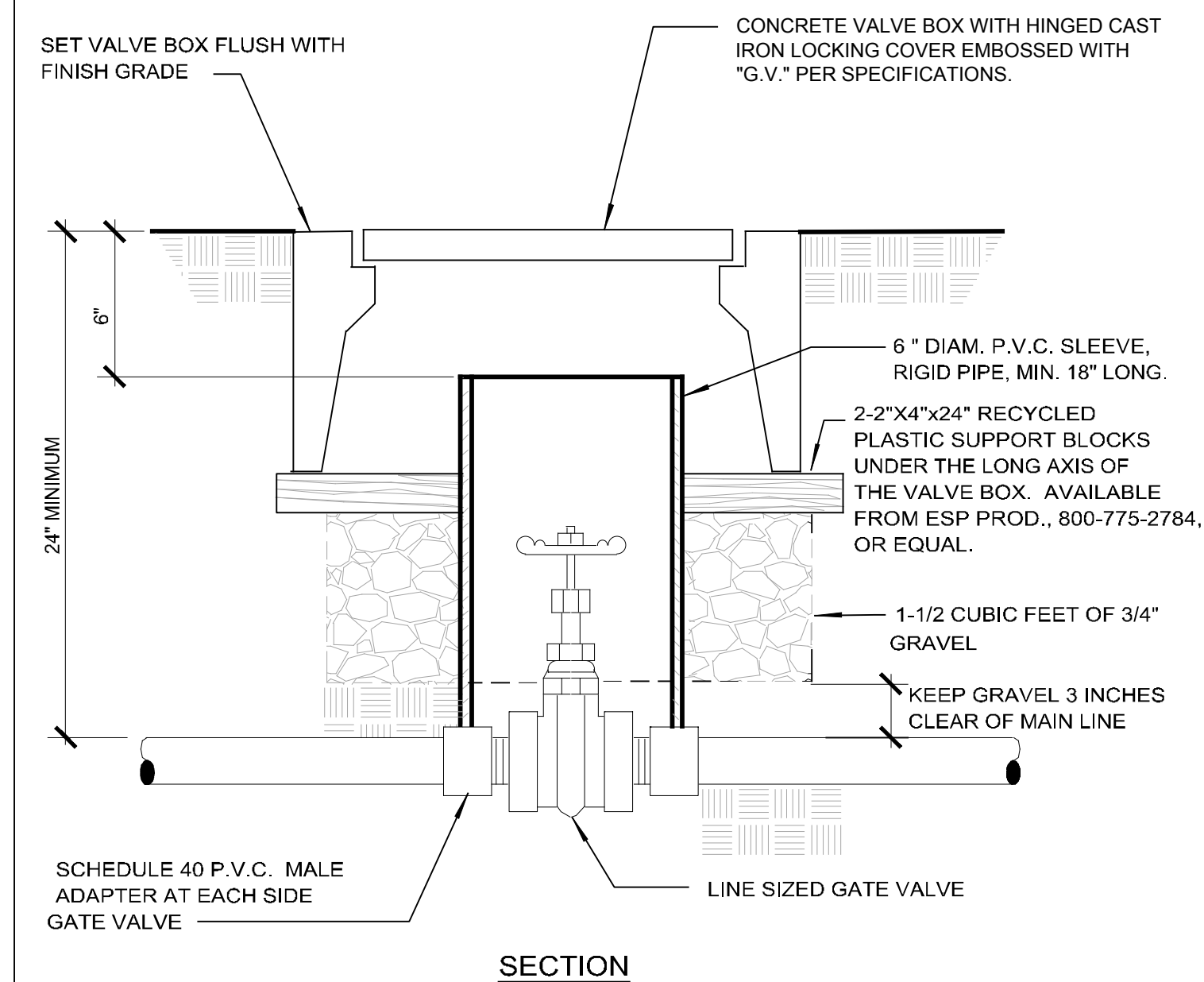
WORK ORDER NO. E1906881
FILE NO. ---
DRAWING NO. L603
SHEET OF SHEETS

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
GARY LEE MOORE, P.E. CITY ENGINEER
ARCHITECTURAL DIVISION
DATE: 5/15/12
LIC. NO. 5135

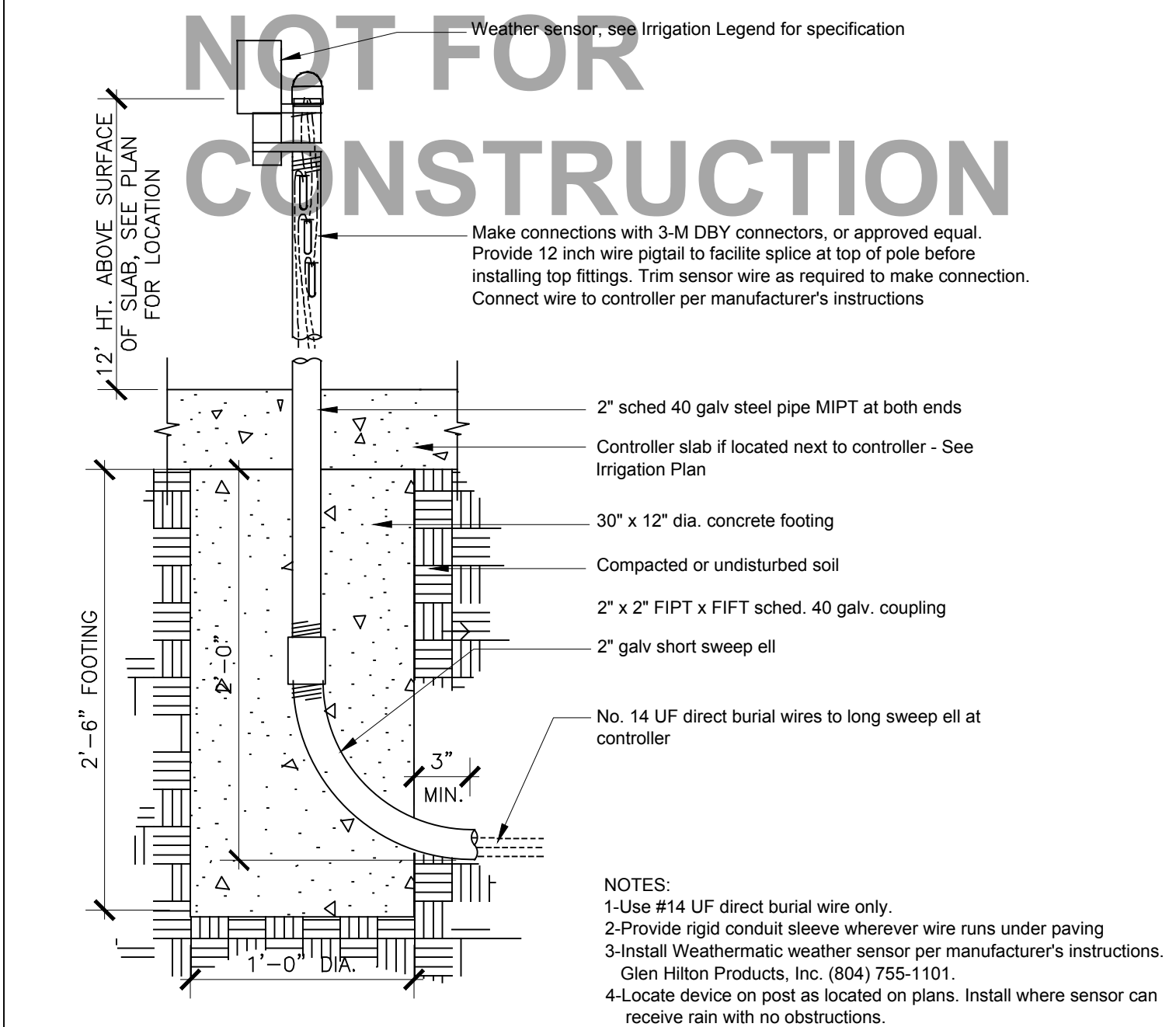
PROJECT: LOPEZ CANYON EQUESTRIAN STAGING AREA
ADDRESS: 11950 LOPEZ CANYON ROAD, LOS ANGELES, CA 91342



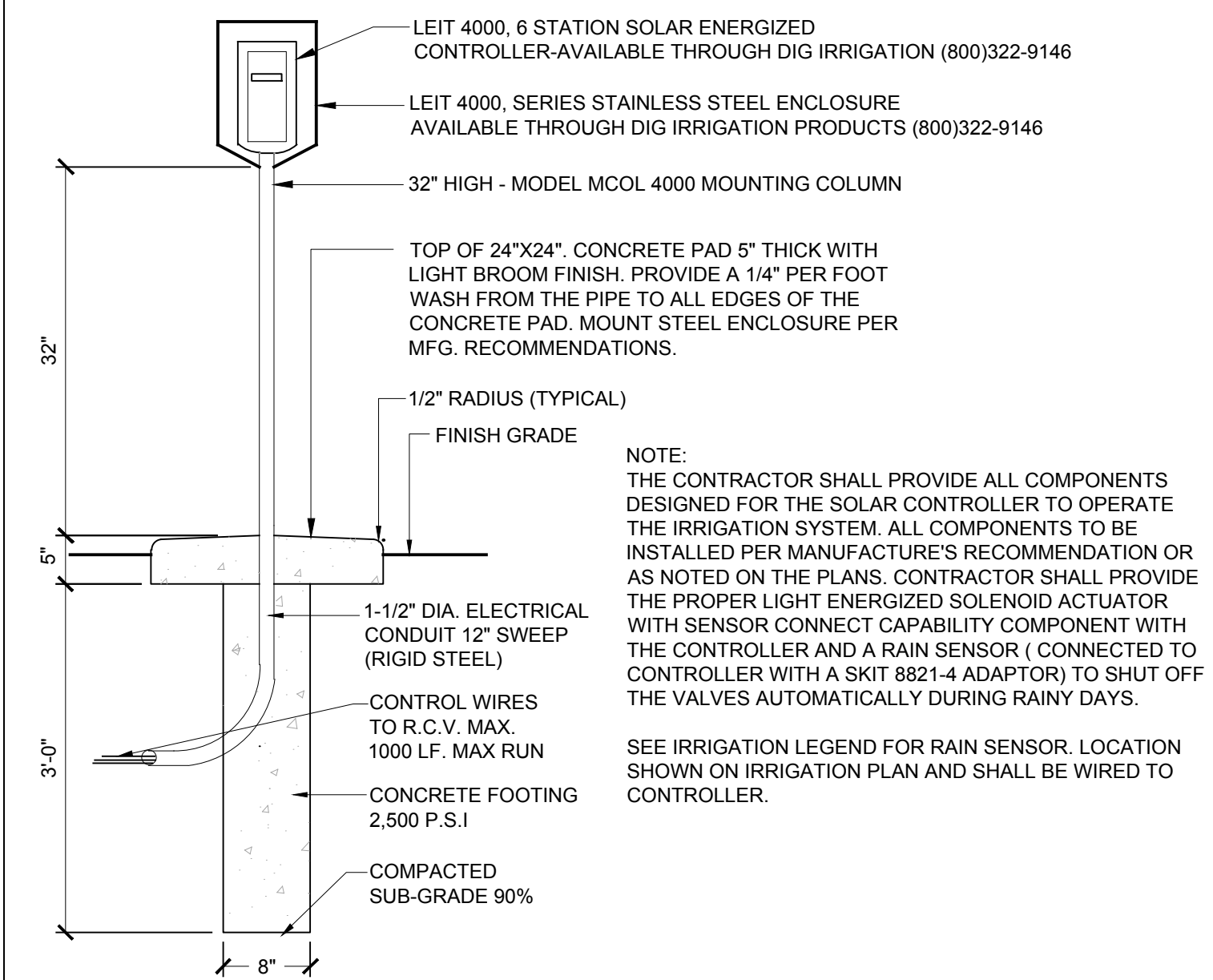
E9	QUICK COUPLER INSTALLATION (2" MAINLINE OR SMALLER)	
N.T.S.		RP DETAIL 1



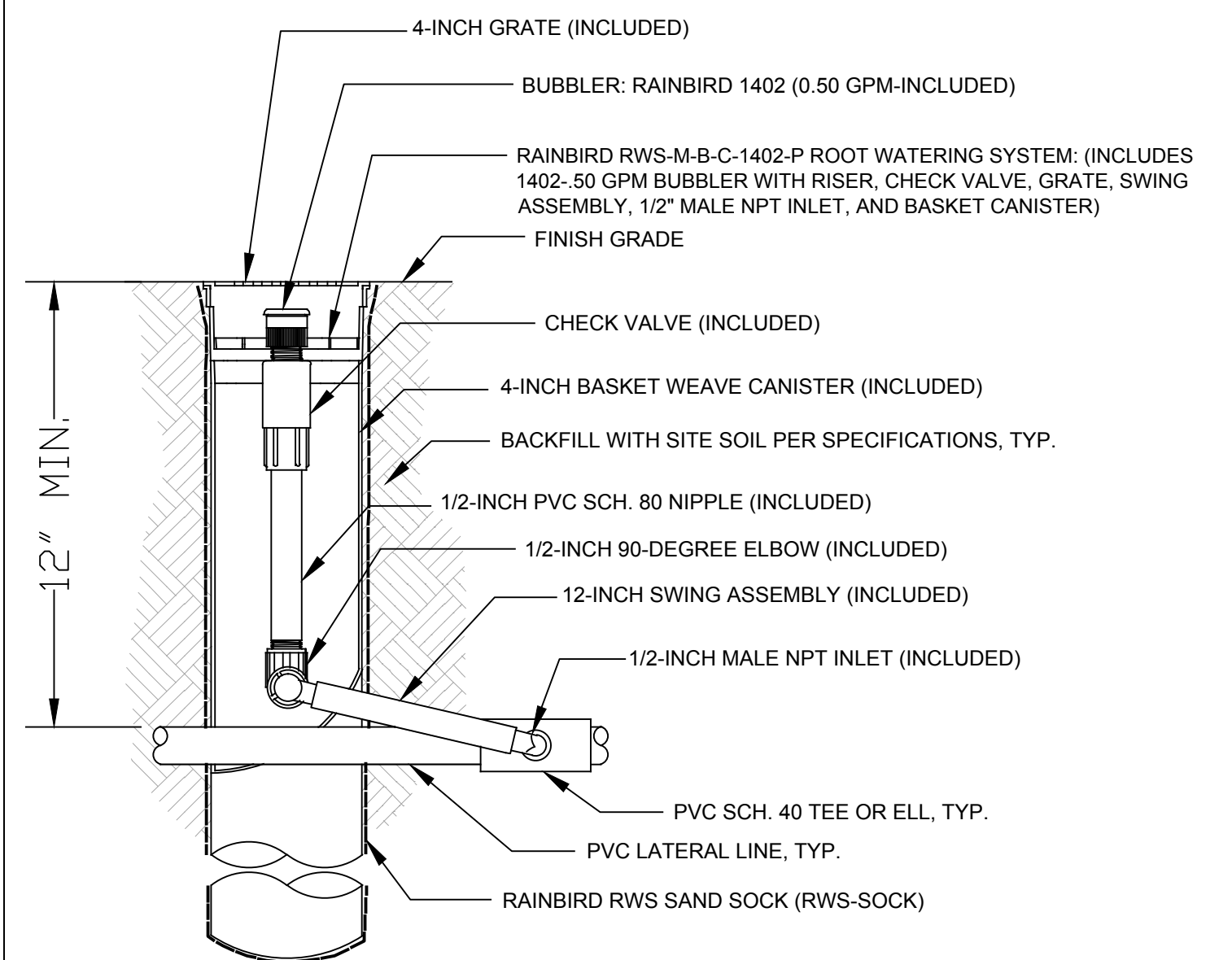
A9	GATE VALVE INSTALLATION, LESS THAN 3"	
N.T.S.		RP DETAIL 1



J13	WEATHER SENSOR ON POST	
N.T.S.		RP DETAIL 14




E13	CONTROLLER ENCLOSURE	
N.T.S.		DETAIL 144



A13	ROOT WATERING SYSTEM BUBBLER ASSEMBLY
-----	---------------------------------------

WORK ORDER NO.	
E1906881	
FILE NO.	---
DRAWING NO.	
L604	
SHEET	SHEETS
OF	

SHEET TITLE: IRRIGATION DETAILS	
PROJECT:	LOPEZ CANYON EQUESTRIAN STAGING AREA
ADDRESS:	11950 LOPEZ CANYON ROAD, LOS ANGELES, CA 91342
DIRECTOR OF SANITATION DIRECTOR OF ENGINEERING DIRECTOR OF LANDSCAPE ARCHITECTURE	

<div> <div>  </div> <div> GARY LEE MOORE, P.E. ARCHITECTURAL DIVISION L.I.C. NO. 5135 </div> </div>	CITY ENGINEER
	DATE:
	ARCHITECT: NISITH DIANDHA
	DESIGNED BY: NISITH DIANDHA
	DRAWN BY: NISITH DIANDHA
CHECKED BY: JANE ARJAN	
APPROVED BY: MAHMOOD KARIMZADEH, I.A., PRINCIPAL ARCHITECT	

LANDSCAPE ARCHITECT ★
 NISHI Dhanu
 No. 5135
 Signature _____
 Renewal Date _____
 Date _____
 LICENSED ★ STATE OF CALIFORNIA

INDEX NO. -		BUILDING NO. XXX/XX	
NO.	REVISIONS:	DATE:	BY:
△			
△			
△			
△			
△			

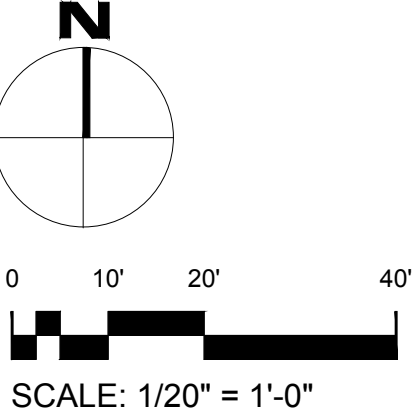


NOT FOR
CONSTRUCTION

NOTES:

1. STAKE ALL TREES PER DET. A13/L703.
2. SHRUB PLANTING PER DET. J13/L703.
3. FOR SLOPE PLANTING USE DET. E13/L703.
4. WHERE RANDOM PLACEMENT OF MIXED SIZES OF CONTAINER PLANTS IS REQUIRED, LANDSCAPE ARCHITECT SHALL APPROVE PLACEMENT PRIOR TO PLANTING. NOTIFY LANDSCAPE ARCHITECT 48 HOURS PRIOR TO INSPECTION.
5. LANDSCAPE ARCHITECT SHALL APPROVE PLANT LAYOUT IN FIELD PRIOR TO INSTALLATION.
6. CONTRACTOR SHALL PROVIDE AN ALLOWANCE OF 24 1-GAL. SHRUBS AND 2 1/2-GAL. TREES FOR SPOTTING IN THE FIELD BY THE LANDSCAPE ARCHITECT. PLANT SPECIES SHALL BE SELECTED BY THE LANDSCAPE ARCHITECT.

	CRUSHED AGGREGATE PAVEMENT
	CONCRETE PAVEMENT
	STA-LOK NATURAL PAVEMENT SURFACE
	GRADED AND COMPACTED NATIVE SOIL AT 95% COMPACTION
	EXISTING BOULDERS




LIMIT OF WORK

TERRA VISTA WAY

TERRA BELLA
STREET

MATCHLINE A

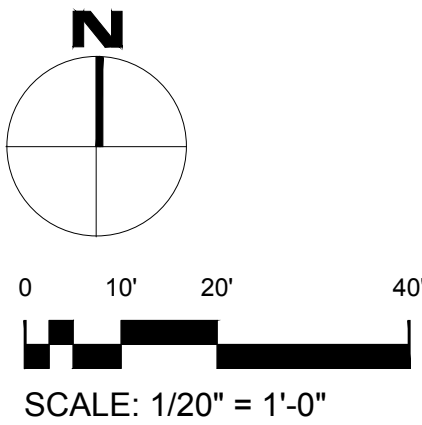
LA DRP ENGINEERING Sustainable Planning & Designing the Future					
A NO.		REVISIONS:		DATE: BY:	
△					
△					
△					
△					
△					
BUILDING NO. XX/XX					
INDEX NO. —					
					
GARY LEE MOORE, P.E. CITY ENGINEER					
ARCHITECTURAL DIVISION		DATE:			
ARCHITECT: NISHITH DHANDHA		LIC. NO.: 5135			
DESIGNED BY: NISHITH DHANDHA					
DRAWN BY: NISHITH DHANDHA					
CHECKED BY: JANE ADRIAN					
APPROVED BY: MAHMOOD KARIMZADEH, A.I.A., PRINCIPAL ARCHITECT					
CLIENT: BUREAU OF SANITATION DIRECTOR: ENRIQUE G. ZALDIVAR					
SHEET TITLE: PLANTING PLAN, SHEET 1					
PROJECT: LOPEZ CANYON EQUESTRIAN STAGING AREA					
ADDRESS: 11950 LOPEZ CANYON ROAD, LOS ANGELES, CA 91342					
WORK ORDER NO. E1906881					
FILE NO. ---					
DRAWING NO. L701					
SHEET			SHEETS		
OF					
PLOTTED: 5/15/2012 10:16 AM					

NOT FOR
CONSTRUCTION



NOTES:

1. STAKE ALL TREES PER DET. A13/L703.
2. SHRUB PLANTING PER DET. J13/L703.
3. FOR SLOPE PLANTING USE DET. E13/L703.
4. WHERE RANDOM PLACEMENT OF MIXED SIZES OF CONTAINER PLANTS IS REQUIRED, LANDSCAPE ARCHITECT SHALL APPROVE PLACEMENT PRIOR TO PLANTING. NOTIFY LANDSCAPE ARCHITECT 48 HOURS PRIOR TO INSPECTION.
5. LANDSCAPE ARCHITECT SHALL APPROVE PLANT LAYOUT IN FIELD PRIOR TO INSTALLATION.
6. CONTRACTOR SHALL PROVIDE AN ALLOWANCE OF 24 1-GAL. SHRUBS AND 2 1/2-GAL. TREES FOR SPOTTING IN THE FIELD BY THE LANDSCAPE ARCHITECT. PLANT SPECIES SHALL BE SELECTED BY THE LANDSCAPE ARCHITECT.

	CRUSHED AGGREGATE PAVEMENT
	CONCRETE PAVEMENT
	STA-LOK NATURAL PAVEMENT SURFACE
	GRADED AND COMPACTED NATIVE SOIL AT 95% COMPACTION
	EXISTING BOULDERS



CITY OF LOS ANGELES

 <p>ENGINEERING Sustains the Past, Advances the Future</p>		BUILDING NO. XX/XX	
INDEX NO. —			
			
GARY LEE MOORE, P.E.		CITY ENGINEER	
ARCHITECTURAL DIVISION		DATE:	
ARCHITECT:	INSITHI DHANDHA	LIC. NO.	5155
DESIGNED BY:	INSITHI DHANDHA	DRAWN BY:	INSITHI DHANDHA
CHECKED BY:	JANE ADRIAN	APPROVED BY:	MAHMOOD KARIMZADEH A.I.A., PRINCIPAL ARCHITECT

WORK ORDER NO. E1906881	
FILE NO.	---
DRAWING NO. L702	
SHEET OF SHEETS	

SHEET TITLE:	PLANTING PLAN, SHEET 2
PROJECT:	LOPEZ CANYON EQUESTRIAN STAGING AREA
ADDRESS:	11950 LOPEZ CANYON ROAD, LOS ANGELES, CA 91342

