



April 6, 2026

ADDENDUM NO. 2
to
THE CONTRACT DOCUMENTS, SPECIFICATIONS AND PLANS
for
TEEN CENTER, PLAZA, AND SKATEPARK RENOVATION PROJECT
PROJECT NO.: PW 25-13

ATTENTION BIDDERS:

The following additions, modifications, and clarifications to the specifications shall be included in, and become a part of, any contract which may be executed for the above project in the City of El Segundo:

1. **The bid due date and time remains Tuesday, April 14, 2026, at 11:00 am.**
2. Please see this project's attached Supplement to Addendum 2 for bid-related questions and responses; with appropriate appendices below:
 - a. Fixture F-7: Juno Trac-Lites, 13W LED Cylinder- R606L Series (**Appendix I**)
 - b. Fixture F-9: Blade BLD- Wall Mount/Mullion Mount LED (**Appendix II**)
 - c. Exit Sign: Lithonia Lighting – LHQM LED Series (**Appendix III**)
 - d. Existing Skate Park As-Built (**Appendix IV**)

As evidence that the BIDDER has read this Addendum, the BIDDER must acknowledge same in the space provided below and **submit this completed Addendum page with the Bid Proposal**. Failure to provide such acknowledgement shall render the bid as non-responsive and subject to rejection.

Signature: _____ Date: _____

Print Company Name: _____

CITY OF EL SEGUNDO
TEEN CENTER, PLAZA, AND SKATEPARK RENOVATION PROJECT
PROJECT NO.: PW 25-13

ADDENDUM NO. 2 SUPPLEMENT SHEET

DATE: April 6, 2026

TO: All Prospective Bidders

Clarifying information and answers to bid questions have been provided below. The information in this Addendum has been made available to all prospective bidders and shall be considered as incorporated into the above-referenced project specifications. All other portions of Contract Documents and previous Addenda not specifically mentioned in this Addendum remain in force.

Question 27: Reference is made to page E7.01, which specifies two 4" conduits from the data center to a "meet me" box at the edge of the property, to be coordinated by the General Contractor and the owner. To accurately quantify this work for bidding purposes, please provide the specific location of the "meet me" box.

Answer: Sheet E7.01 is not part of this plan set. If the reference is to Sheet T7.01, the plans revised under Addendum No. 1 require only one (1) new 4-inch conduit, as one (1) existing 4-inch conduit is already available. The existing Fiber Pull Box PB041022 shown on Sheet C2.01 serves as the meet-me point for this project. No additional meet-me box is required under this contract unless relocation of the existing pull box is directed.

Question 28: Reference made to page E0.02 light fixture schedule. For bid purposes, provide types F7 and F9 product schedule or an allowance for bidders to include.

Answer: General specifications for the light fixtures will be provided for bidding purposes. The following products shall be used as the basis of design:

-Fixture F-7: Juno Trac-Lites, 13W LED Cylinder – R606L Series (**Appendix I**)
-Fixture F-9: Blade BLD – Wall Mount / Mullion Mount LED (**Appendix II**)

The listed fixtures are provided as the basis of design for bidding purposes. Requests for approved equals or substitutions shall be submitted by the selected contractor after contract award through the submittal process. Pre-bid substitution requests will not be reviewed. Contractors shall include these fixtures in their base bid.

Question 29: Sheet E0.02 light fixture schedule nuggets to include Exit signs. Please provide the exit signs schedule.

Answer: Provide Exit Signs per the following basis of design:

Exit Sign: Lithonia Lighting – LHQM LED Series (**Appendix III**)

Contractor shall include Exit Signs in the base bid. Requests for substitutions or approved equals shall be submitted by the selected contractor after contract award through the submittal process.

Question 30: There is No Door Hardware for the Storefront Doors - Could you please provide either a Spec 087100 or what hardware to use for each exterior storefront doors?

Answer: Door hardware for each exterior storefront door shall include the following:

- Pivot Set (1)
- Intermediate Pivots (2)
- Rim Exit Device (1)
- Rim Cylinder (1)
- Cores (2)
- Door Pull (1)
- Concealed Closer (1)
- Door Sweep (1)
- Threshold (1)

Contractor shall include all storefront door hardware in the base bid. No separate allowance will be provided.

Door hardware shall comply with applicable ADA and egress requirements. Final hardware selections, hardware schedule, and product data shall be submitted by the Contractor after contract award for Architect review and approval. Door hardware submittals are not required at the time of bid.

Question 31: There is a spec for Vinyl Windows, but the details call out storefront. Could you please clarify if all interior and exterior windows are to be Storefront.

Answer: Windows and storefront systems are separate assemblies. The two north-facing exterior units identified on the plans are vinyl windows and are not storefront systems. All other glazed openings identified as storefront on the plans and details shall be storefront systems.

Windows and storefront systems are separate. The two north-facing exterior units identified on the plans are windows and not storefront doors

Question 32: Do the Sectional Overhead Glass Door(s) Type B & F require Energy Code Compliance including Air Infiltration Resistance, NFRC certification, and testing per ASTM E283, ASTM E331, ASTM E547, and related standards?

Answer: Sectional overhead glazed door assemblies Type B and Type F shall comply with the energy performance requirements of the California Title 24 Energy Code. Assemblies shall be tested, rated, and labeled in accordance with National Fenestration Rating Council (NFRC) procedures where applicable or equivalent manufacturer certification demonstrating compliance with Title 24 requirements.

Contractor shall provide assemblies that comply with all applicable codes and energy requirements. Supporting documentation, including NFRC data, manufacturer performance data, and testing information, shall be provided as part of the submittal process after contract award. Submittals are not required as part of this bid.

Question 33: Do the Sectional Overhead Glass Door(s) Type B & F require Water Infiltration Resistance testing per ASTM E331 and ASTM E547?

Answer: Sectional overhead glazed door assemblies Type B and Type F shall be tested for water penetration resistance in accordance with ASTM E331 and ASTM E547 and shall meet the manufacturer's published performance criteria.

Contractor shall provide assemblies that comply with applicable testing and performance requirements. Manufacturer test data demonstrating compliance shall be provided as part of the submittal process after contract award. Submittals are not required as part of this bid.

Question 34: Can we use the existing base material underneath the existing asphalt and concrete. Note 13 on C3.01 says to remove it. Can the material be processed and reused for fill to get to subgrade.

Answer: Processed existing crushed aggregate base (CAB) material may be considered for reuse on site as fill or subgrade material, provided the material does not contain excessive soil, fines, debris, or organic material and meets the project geotechnical and compaction requirements. All reuse of on-site material shall be reviewed and approved by the project geotechnical engineer during construction. Material that does not meet these requirements shall be removed and disposed of in accordance with the Plans and Specifications.

Question 35: There is missing the door hardware specification. Is this a "design-build" for door hardware? or an allowance?

Answer: Door hardware shall be included in the base bid and shall not be considered design-build, and no allowance will be provided. Hardware shall be ADA compliant and meet applicable egress and accessibility requirements.

Contractor shall provide a complete door hardware system consistent with the minimum components identified in Response to Question 30 and suitable for the door types shown on the plans.

Door hardware schedule and product data shall be submitted after contract award for Architect review and approval. Door hardware submittals are not required as part of the bid.

Question 36: In response to Question 26 in Addendum 1: The Plans & Specs provide proposed finish grades and grading design for the new skate park; however, detailed existing topographic elevations within the interior of the existing skate park are not provided. Existing interior elevations are typically used to develop earthwork quantities and grading models for bidding purposes. Please confirm whether the Owner will provide additional existing topographic information for the interior of the skate park, or if bidders are to base their bids on the information provided in the Plans & Specs.

Answer: The Plans and Specifications provide the proposed finish grades, grading plans, structural sections, and geotechnical recommendations necessary for construction of the project. In addition, available as-built drawings of the existing skate park are being provided for reference only (**Appendix IV**). Bidders were also provided the opportunity to review site conditions during the pre-bid job walk.

The as-built drawings are provided for informational purposes only and are not guaranteed to represent current field conditions. No additional existing condition survey or topographic information will be provided.

Bidders shall base their bids on the Plans and Specifications.

APPENDIX I



TRAC-LITES™

13W LED CYLINDER

R606L SERIES

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____



PRODUCT DESCRIPTION

The R606L Series 13W LED is an economical and affordable track fixture, with a simple and timeless aesthetic. It approximates the light output and distribution of 50W MR16 halogen lamps, utilizing about 25% of the energy and having a rated life of 50,000 hours. It is available in 2700K, 3000K, 3500K and 4000K color temperatures with a minimum 80 CRI. Optional high CRI versions are available with a minimum 90 CRI. The R606L Series LED is available in spot, narrow flood, flood and wide flood beam distributions which can be achieved with interchangeable precision-molded custom TIR optics. It is available with an optional, bayonet-mount accessory holder that accommodates one accessory if desired. It is compatible with Juno Trac-Lites™ and Trac-Master® track and system components.



PRODUCT SPECIFICATIONS

Construction Die cast aluminum heat sink provides outstanding thermal management of LED, yielding 70% average lumen maintenance at 50,000 hours of operation • Simple, timeless design complements any decor • Available in white semi-gloss, black semi-gloss and silver metallic painted finishes.

LED High performance LED array provides outstanding reliability, performance and color quality/consistency • 2700K, 3000K, 3500K or 4000K white phosphor high performance LEDs • Chromaticity range within a 3-step MacAdam Ellipse • Exceptional 80 CRI minimum on a standard product • Optional high CRI versions offer 90 CRI minimum.

Driver Integrated into fixture housing behind LED light engine to minimize overall fixture footprint • Insulating air gap between driver and LED light engine, plus thermal potting compound, optimizes thermal operation • Provides quiet operation with or without dimming • Dimmable using high quality, factory-approved dimmers - see [R606L-DIM](#) • Solid state electronic, Class 2 compliant • Integral overcurrent and short circuit protection • Designed for greater than 50,000 hour operating life • FCC Certified to Part 15 Class B EMI standards.

Optics Proprietary, interchangeable computer-designed custom TIR optics available in four factory-configured beam spreads • One TIR optic provided with fixture (as specified in catalog number) • Simply snaps into baffled bayonet mount optic holder • Accessory optics available to enable simple beam changes in the field • Beam patterns can be altered as desired using a variety of available light control accessories.

Accessory Holder Optional accessory ring attaches to baffled optic holder without tools • May be specified as a factory-installed option or ordered separately as a field-installed accessory • Precision bayonet mounting • Accommodates one accessory if desired.

Juno Universal Track Adapter Universally compatible with both Trac-Master 1-circuit or 2-circuit track, Trac-Lites track, monopoints and special mountings • Also UL Recognized for use on ConTech® LT Series track • Copper alloy contacts provide precise spring action – no arcing and will not take a set • True, positive electrical ground • On /off switch included • Patented embossed polarity arrows on bottom of adapter • Spring-loaded positive latch with embossed polarity arrows secures track light to track • Two-position power contact provided for two-circuit application.

Alternate GTYPE Track Adapter Compatible with track systems based on GES type track, including Lithonia LT Commercial Track (not LTS type) • System specific and assembled to track fixture • Available in black, silver, and white finish only • Consult factory for additional information.

Alternate HTYPE Track Adapter Compatible with track systems which use a H-type track adapter, including Lithonia LTS Decorative Track (not LT type) • System specific and assembled to track fixture • Two-position power contact provided for two-circuit application • Available in black, silver, and white finish only • Consult factory for additional information.

Alternate LTYPE Track Adapter Compatible with track systems which use a L-type track adapter • System specific and assembled to track fixture • Two-position power contact provided for two-circuit application • Available in black and white finish only • Consult factory for additional information.

Aiming 350° horizontal coverage • 90° vertical aiming capability.

Labels UL and C-UL Listed • DLC Qualified where noted on Performance Data chart • Union made • Assembled in U.S.A • 90 CRI version certified as CEC Title 24 Compliant.

Government Procurement

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.

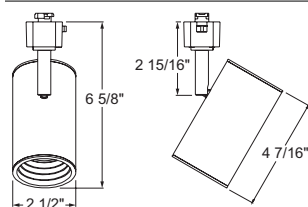
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to www.acuitybrands.com/buy-american for additional information.

Warranty 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions.

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

DIMENSIONS



ConTech is a registered trademark of ConTech Lighting.



TRAC-LITES™

13W LED CYLINDER

R606L SERIES

ORDERING INFORMATION

Ordering Example: R606L 27K 80CRI PDIM FL BL

Series	Mounting Adapter Type	Color Temperature	Color Rendering Index	Dimming Compatibility	Distribution
R606L Trac-Lites™ 13W LED Cylinder	(Blank) Juno Universal 120V Track Adapter GTYPE G-Type Track Adapter HTYPE H-Type Track Adapter LTYPE ¹ L-Type Track Adapter See page 5 for Direct Canopy Mount Option (CPY) specifications.	27K 2700K 30K 3000K 35K 3500K 40K 4000K	80CRI 80 CRI 90CRI 90 CRI	PDIM Phase Dimmable	SP Spot NFL Narrow Flood FL Flood WFL Wide Flood

Finish	Accessory Holder Option
BL Black	AHR605 BLCK Accessory Holder for R606L, Black
SL Silver	AHR605 WHT Accessory Holder for R606L, White
WH White	

Accessories (Order Separately)					
AHR605 BLCK 200	Accessory Holder for R606L, Black	PRISM 200	Prismatic Spread Lens	TIR6 WFLD BLCK	TIR Optic - Wide Flood, Black
AHR605 WHT 200	Accessory Holder for R606L, White	SOLITE 200	Uniformity Lens (Solite)	TIR6 WFLD WHT	TIR Optic - Wide Flood, White
HCLBL 200	Hexagonal Cell Louver - Black	LSPREAD 200	Linear Spread Lens		
SNOOTBL 200	Snoot - Black	TIR6 SPT BLCK	TIR Optic - Spot, Black		
CGF 200	Color Glass Filter	TIR6 SPT WHT	TIR Optic - Spot, White		
DGF 200	Dichroic Glass Filter	TIR6 NFLD BLCK	TIR Optic - Narrow Flood, Black		
DCCF 200	Dichroic Color Correction Filter	TIR6 NFLD WHT	TIR Optic - Narrow Flood, White		
DIFF 200	Diffusion Lens	TIR6 FLD BLCK	TIR Optic - Flood, Black		
UVF 200	UV Filter	TIR6 FLD WHT	TIR Optic - Flood, White		

See specification sheet [D1.2.2](#) for details and color filter options.
Other accessories can be found on specification sheet [D1.2.0](#).

Notes:
1 LTYPE adapter available in BL and WH finish only.

TRAC-LITES™

13W LED CYLINDER

R606L SERIES

PERFORMANCE DATA¹

Catalog Number	Input Voltage	Watts (Typical)	Lumens	Efficacy (LPW)	Rated Life (Hours)	DLC Qualified
R606L 27K 80CRI PDIM SP	120V	13.5	1236	92	50,000	X
R606L 27K 80CRI PDIM NFL	120V	13.5	1182	88	50,000	X
R606L 27K 80CRI PDIM FL	120V	13.5	1254	93	50,000	X
R606L 27K 80CRI PDIM WFL	120V	13.5	1111	82	50,000	X
R606L 27K 90CRI PDIM SP	120V	13.5	1028	76	50,000	
R606L 27K 90CRI PDIM NFL	120V	13.5	983	73	50,000	
R606L 27K 90CRI PDIM FL	120V	13.5	1043	77	50,000	
R606L 27K 90CRI PDIM WFL	120V	13.5	924	68	50,000	
R606L 30K 80CRI PDIM SP	120V	13.5	1301	96	50,000	X
R606L 30K 80CRI PDIM NFL	120V	13.5	1244	92	50,000	X
R606L 30K 80CRI PDIM FL	120V	13.5	1320	98	50,000	X
R606L 30K 80CRI PDIM WFL	120V	13.5	1170	87	50,000	X
R606L 30K 90CRI PDIM SP	120V	13.5	1106	82	50,000	X
R606L 30K 90CRI PDIM NFL	120V	13.5	1058	78	50,000	X
R606L 30K 90CRI PDIM FL	120V	13.5	1122	83	50,000	X
R606L 30K 90CRI PDIM WFL	120V	13.5	994	74	50,000	
R606L 35K 80CRI PDIM SP	120V	13.5	1340	99	50,000	X
R606L 35K 80CRI PDIM NFL	120V	13.5	1282	95	50,000	X
R606L 35K 80CRI PDIM FL	120V	13.5	1360	101	50,000	X
R606L 35K 80CRI PDIM WFL	120V	13.5	1205	89	50,000	X
R606L 35K 90CRI PDIM SP	120V	13.5	1119	83	50,000	X
R606L 35K 90CRI PDIM NFL	120V	13.5	1070	79	50,000	X
R606L 35K 90CRI PDIM FL	120V	13.5	1135	84	50,000	X
R606L 35K 90CRI PDIM WFL	120V	13.5	1006	75	50,000	
R606L 40K 80CRI PDIM SP	120V	13.5	1366	101	50,000	X
R606L 40K 80CRI PDIM NFL	120V	13.5	1307	97	50,000	X
R606L 40K 80CRI PDIM FL	120V	13.5	1386	103	50,000	X
R606L 40K 80CRI PDIM WFL	120V	13.5	1228	91	50,000	X
R606L 40K 90CRI PDIM SP	120V	13.5	1171	87	50,000	X
R606L 40K 90CRI PDIM NFL	120V	13.5	1120	83	50,000	X
R606L 40K 90CRI PDIM FL	120V	13.5	1188	88	50,000	X
R606L 40K 90CRI PDIM WFL	120V	13.5	1053	78	50,000	X

ELECTRICAL DATA

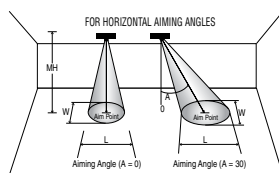
Input Voltage	120V
Input Current (max.)	0.12A
Power Factor	>0.95
T.H.D.	<20%

¹Performance data, including Rated Life, is based on measurements of an individual fixture operating at 120V in a 25°C ambient.

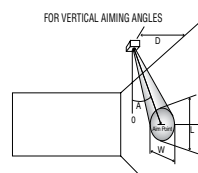
TRAC-LITES™ 13W LED CYLINDER R606L SERIES

CBCP • Centerbeam candlepower
FC • Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°, 1.732 for 60°).



Horizontal Aiming Angles



Vertical Aiming Angles



Fixture	Beam Type	Beam Spread	Rated Life	CBCP	0°			30°			30°			45°			60°								
					MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W	D	FC	X	L	W
R606L 13W LED, 3000K, 80CRI Spot	SP	14°	50000	15742	6	437	1.5	1.5	284	2.0	1.7	4	123	6.9	4.1	2.0	348	4.0	2.0	1.4	6	284	3.5	2.0	1.7
					8	246	2.0	2.0	160	2.6	2.3	6	55	10.4	6.1	2.9	155	6.0	3.0	2.1	8	160	4.6	2.6	2.3
					10	157	2.4	2.4	102	3.3	2.8	8	31	13.9	8.2	3.9	87	8.0	4.0	2.8	10	102	5.8	3.3	2.8
					12	109	2.9	2.9	71	3.9	3.4	10	20	17.3	10.2	4.9	56	10.0	4.9	3.4	12	71	6.9	3.9	3.4
					14	80	3.4	3.4	52	4.6	3.9	12	14	20.8	12.2	5.9	39	12.0	5.9	4.1	14	52	8.1	4.6	3.9
R606L 13W LED, 3000K, 80CRI Narrow Flood	NFL	24°	50000	6033	4	377	1.7	1.7	245	2.3	1.9	2	189	3.5	3.8	1.7	533	2.0	1.7	1.2	4	245	2.3	2.3	1.9
					6	168	2.5	2.5	109	3.4	2.9	4	47	6.9	7.7	3.3	133	4.0	3.5	2.4	6	109	3.5	3.4	2.9
					8	94	3.3	3.3	61	4.5	3.9	6	21	10.4	11.5	5.0	59	6.0	5.2	3.5	8	61	4.6	4.5	3.9
					10	60	4.2	4.2	39	5.7	4.8	8	12	13.9	15.4	6.7	33	8.0	7.0	4.7	10	39	5.8	5.7	4.8
					12	42	5.0	5.0	27	6.8	5.8	10	8	17.3	19.2	8.4	21	10.0	8.7	5.9	12	27	6.9	6.8	5.8
R606L 13W LED, 3000K, 80CRI Flood	FL	34°	50000	3543	4	221	2.4	2.4	144	3.3	2.8	2	111	3.5	6.6	2.4	313	2.0	2.7	1.7	3	256	1.7	2.5	2.1
					5	142	3.0	3.0	92	4.2	3.5	3	49	5.2	10.0	3.6	139	3.0	4.0	2.6	4	144	2.3	3.3	2.8
					6	98	3.6	3.6	64	5.0	4.2	4	28	6.9	13.3	4.8	78	4.0	5.3	3.4	5	92	2.9	4.2	3.5
					7	72	4.2	4.2	47	5.8	4.9	5	18	8.7	16.6	6.0	50	5.0	6.6	4.3	6	64	3.5	5.0	4.2
					8	55	4.8	4.8	36	6.6	5.6	6	12	10.4	19.9	7.2	35	6.0	8.0	5.1	7	47	4.0	5.8	4.9
R606L 13W LED, 3000K, 80CRI Wide Flood	WFL	42°	50000	1897	2	474	1.5	1.5	308	2.1	1.7	1.0	237	1.7	5.3	1.5	671	1.0	1.8	1.1	2	308	1.2	2.1	1.7
					3	211	2.3	2.3	137	3.2	2.6	1.5	105	2.6	8.0	2.3	298	1.5	2.7	1.6	3	137	1.7	3.2	2.6
					4	119	3.0	3.0	77	4.2	3.5	2.0	59	3.5	10.6	3.0	168	2.0	3.5	2.1	4	77	2.3	4.2	3.5
					5	76	3.8	3.8	49	5.3	4.4	2.5	38	4.3	13.3	3.8	107	2.5	4.4	2.7	5	49	2.9	5.3	4.4
					6	53	4.5	4.5	34	6.4	5.2	3.0	26	5.2	16.0	4.5	75	3.0	5.3	3.2	6	34	3.5	6.4	5.2

CRI	CCT	Multiplier
80	27K	0.95
	30K	1.00
	35K	1.03
	40K	1.05
90	27K	0.79
	30K	0.85
	35K	0.86
	40K	0.90



TRAC-LITES™

13W LED CYLINDER

R606L SERIES

DIRECT CANOPY MOUNT

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____



PRODUCT DESCRIPTION

The R606L Series 13W LED is an economical and affordable accent luminaire, with a simple and timeless aesthetic. It approximates the light output and distribution of 50W MR16 halogen lamps, utilizing about 25% of the energy and having a rated life of 50,000 hours. It is available in 2700K, 3000K, 3500K and 4000K color temperatures with a minimum 80 CRI. Optional high CRI versions are available with a minimum 90 CRI. The R606L Series LED is available in spot, narrow flood, flood and wide flood beam distributions which can be achieved with interchangeable precision-molded custom TIR optics. It is available with an optional, bayonet-mount accessory holder that accommodates one accessory if desired. The Canopy Mount version is designed to mount over a standard j-box and is available with a variety of performance options including 277V operation, 347V operation, phase-dimming, and 0-10V dimming.



PRODUCT SPECIFICATIONS

Construction Die cast aluminum heat sink provides outstanding thermal management of LED, yielding 70% average lumen maintenance at 50,000 hours of operation • Simple, timeless design complements any decor • Available in white semi-gloss or black semi-gloss painted finishes.

LED High performance LED array provides outstanding reliability, performance and color quality/consistency • 2700K, 3000K, 3500K or 4000K white phosphor high performance LEDs • Chromaticity range within a 3-step MacAdam Ellipse • Exceptional 80 CRI minimum on a standard product • Optional high CRI versions offer 90 CRI minimum.

Electrical/Driver Multi-volt (120-277V, 50/60Hz) phase-dimmable or 0-10V dimmable driver mounted in a deep canopy • Optional 347V 0-10V dimmable driver mounted in a deep canopy • 0-10V dimming requires two (2) additional low-voltage wires to be pulled.

Dimming MVOLT versions are phase-dimmable (120V only) down to 10% or less using high quality, factory-approved dimmers - see [R600LG2-DIM](#) • MVOLT versions are also 0-10V dimmable down to as low as 1% and require two (2) additional low-voltage wires to be pulled • 347V versions are 0-10V dimmable down to as low as 1% and require two (2) additional low-voltage wires to be pulled.

Optics Proprietary, interchangeable computer-designed custom TIR optics available in four factory-configured beam spreads • One TIR optic provided with fixture (as specified in catalog number) • Simply snaps into baffled bayonet mount optic holder • Accessory optics available to enable simple beam changes in the field • Beam patterns can be altered as desired using a variety of available light control accessories.

Accessory Holder Optional accessory ring attaches to baffled optic holder without tools • May be specified as a factory-installed option or ordered separately as a field-installed accessory • Precision bayonet mounting • Accommodates one accessory if desired.

Mounting Installs over a standard electrical j-box • Accent light is permanently, factory-assembled to the mounting canopy • Universal mounting plate accommodates octagon box and typical j-box mud rings • Mounting plate designed to be installed snug to mounting surface • May be ceiling or wall mounted in any orientation • Driver is assembled into mounting canopy – see Dimensions section for canopy type and dimensions based on option selected • Canopy is securely tethered to mounting plate to facilitate wiring terminations.

Aiming 330° horizontal coverage • 180° vertical aiming capability.

Labels UL and C-UL Damp Location Listed • Union made • Assembled in U.S.A.

Government Procurement

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to www.acuitybrands.com/buy-american for additional information.

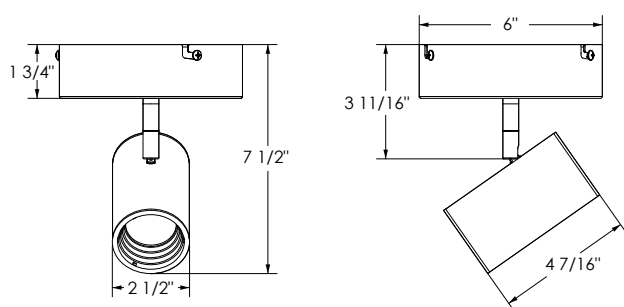
Warranty 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions.

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

DIMENSIONS



TRAC-LITES™

13W LED CYLINDER

R606L SERIES

DIRECT CANOPY MOUNT

ORDERING INFORMATION

Ordering Example: R606L CPY 30K 80CRI MVOLT NFL BL

Series	Mounting Adapter Type	Color Temperature	Color Rendering Index	Input Voltage ¹	Distribution
R606L Trac-Lites™ 13W LED Cylinder	CPY Canopy Mounting	27K 2700K 30K 3000K 35K 3500K 40K 4000K	80CRI 80 CRI 90CRI 90 CRI	MVOLT 120V/277V Operation 347 347V Operation	SP Spot NFL Narrow Flood FL Flood WFL Wide Flood

Finish	Accessory Holder Option
BL Black	AHR605 BLCK Accessory Holder for R606L, Black
WH White	AHR605 WHT Accessory Holder for R606L, White

Accessories (Order Separately)					
AHR605 BLCK 200	Accessory Holder for R606L, Black	PRISM 200	Prismatic Spread Lens	TIR6 WFLD BLCK	TIR Optic - Wide Flood, Black
AHR605 WHT 200	Accessory Holder for R606L, White	SOLITE 200	Uniformity Lens (Solite)	TIR6 WFLD WHT	TIR Optic - Wide Flood, White
HCLBL 200	Hexagonal Cell Louver - Black	LSPREAD 200	Linear Spread Lens		
SNOOTBL 200	Snoot - Black	TIR6 SPT BLCK	TIR Optic - Spot, Black		
CGF 200	Color Glass Filter	TIR6 SPT WHT	TIR Optic - Spot, White		
DGF 200	Dichroic Glass Filter	TIR6 NFLD BLCK	TIR Optic - Narrow Flood, Black		
DCCF 200	Dichroic Color Correction Filter	TIR6 NFLD WHT	TIR Optic - Narrow Flood, White		
DIFF 200	Diffusion Lens	TIR6 FLD BLCK	TIR Optic - Flood, Black		
UVF 200	UV Filter	TIR6 FLD WHT	TIR Optic - Flood, White		

See specification sheet [D1.2.2](#) for details and color filter options.

Notes:

¹ MVOLT option can be either phase-dimmed (120V) or 0-10V dimmed; 347V option is 0-10V dimming only.

TRAC-LITES™

13W LED CYLINDER

R606L SERIES

DIRECT CANOPY MOUNT

PERFORMANCE DATA¹

Catalog Number	Input Voltage	Watts (Typical)	Lumens	Efficacy (LPW)	Rated Life (Hours)
R606L 27K 80CRI PDIM SP	120V	14.0	1236	92	50,000
R606L 27K 80CRI PDIM NFL	120V	14.0	1182	88	50,000
R606L 27K 80CRI PDIM FL	120V	14.0	1254	93	50,000
R606L 27K 80CRI PDIM WFL	120V	14.0	1111	82	50,000
R606L 27K 90CRI PDIM SP	120V	14.0	1028	76	50,000
R606L 27K 90CRI PDIM NFL	120V	14.0	983	73	50,000
R606L 27K 90CRI PDIM FL	120V	14.0	1043	77	50,000
R606L 27K 90CRI PDIM WFL	120V	14.0	924	68	50,000
R606L 30K 80CRI PDIM SP	120V	14.0	1301	96	50,000
R606L 30K 80CRI PDIM NFL	120V	14.0	1244	92	50,000
R606L 30K 80CRI PDIM FL	120V	14.0	1320	98	50,000
R606L 30K 80CRI PDIM WFL	120V	14.0	1170	87	50,000
R606L 30K 90CRI PDIM SP	120V	14.0	1106	82	50,000
R606L 30K 90CRI PDIM NFL	120V	14.0	1058	78	50,000
R606L 30K 90CRI PDIM FL	120V	14.0	1122	83	50,000
R606L 30K 90CRI PDIM WFL	120V	14.0	994	74	50,000
R606L 35K 80CRI PDIM SP	120V	14.0	1340	99	50,000
R606L 35K 80CRI PDIM NFL	120V	14.0	1282	95	50,000
R606L 35K 80CRI PDIM FL	120V	14.0	1360	101	50,000
R606L 35K 80CRI PDIM WFL	120V	14.0	1205	89	50,000
R606L 35K 90CRI PDIM SP	120V	14.0	1119	83	50,000
R606L 35K 90CRI PDIM NFL	120V	14.0	1070	79	50,000
R606L 35K 90CRI PDIM FL	120V	14.0	1135	84	50,000
R606L 35K 90CRI PDIM WFL	120V	14.0	1006	75	50,000
R606L 40K 80CRI PDIM SP	120V	14.0	1366	101	50,000
R606L 40K 80CRI PDIM NFL	120V	14.0	1307	97	50,000
R606L 40K 80CRI PDIM FL	120V	14.0	1386	103	50,000
R606L 40K 80CRI PDIM WFL	120V	14.0	1228	91	50,000
R606L 40K 90CRI PDIM SP	120V	14.0	1171	87	50,000
R606L 40K 90CRI PDIM NFL	120V	14.0	1120	83	50,000
R606L 40K 90CRI PDIM FL	120V	14.0	1188	88	50,000
R606L 40K 90CRI PDIM WFL	120V	14.0	1053	78	50,000

¹Performance data, including Rated Life, is based on measurements of an individual fixture operating at 120V in a 25°C ambient.

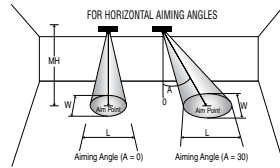
ELECTRICAL DATA

Input Voltage	120V	277V	347V
Input Wattage (typ.)	14.0	14.4	15.4
Input Current (max.)	0.13A	0.06A	0.06A
Power Factor	>0.99	>0.95	>0.81
T.H.D.	<20%	<20%	<30%

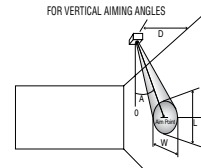
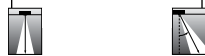
TRAC-LITES™ 13W LED CYLINDER R606L SERIES DIRECT CANOPY MOUNT

CBCP • Centerbeam candlepower
FC • Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°, 1.732 for 60°).



Horizontal Aiming Angles



Vertical Aiming Angles



Fixture	Beam Type	Beam Spread	Rated Life	CBCP	0°			30°			30°			45°			60°								
					MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W	D	FC	X	L	W
R606L 13W LED, 3000K, 80CRI Spot	SP	14°	50000	15742	6	437	1.5	1.5	284	2.0	1.7	4	123	6.9	4.1	2.0	348	4.0	2.0	1.4	6	284	3.5	2.0	1.7
					8	246	2.0	2.0	160	2.6	2.3	6	55	10.4	6.1	2.9	155	6.0	3.0	2.1	8	160	4.6	2.6	2.3
					10	157	2.4	2.4	102	3.3	2.8	8	31	13.9	8.2	3.9	87	8.0	4.0	2.8	10	102	5.8	3.3	2.8
					12	109	2.9	2.9	71	3.9	3.4	10	20	17.3	10.2	4.9	56	10.0	4.9	3.4	12	71	6.9	3.9	3.4
					14	80	3.4	3.4	52	4.6	3.9	12	14	20.8	12.2	5.9	39	12.0	5.9	4.1	14	52	8.1	4.6	3.9
R606L 13W LED, 3000K, 80CRI Narrow Flood	NFL	24°	50000	6033	4	377	1.7	1.7	245	2.3	1.9	2	189	3.5	3.8	1.7	533	2.0	1.7	1.2	4	245	2.3	2.3	1.9
					6	168	2.5	2.5	109	3.4	2.9	4	47	6.9	7.7	3.3	133	4.0	3.5	2.4	6	109	3.5	3.4	2.9
					8	94	3.3	3.3	61	4.5	3.9	6	21	10.4	11.5	5.0	59	6.0	5.2	3.5	8	61	4.6	4.5	3.9
					10	60	4.2	4.2	39	5.7	4.8	8	12	13.9	15.4	6.7	33	8.0	7.0	4.7	10	39	5.8	5.7	4.8
					12	42	5.0	5.0	27	6.8	5.8	10	8	17.3	19.2	8.4	21	10.0	8.7	5.9	12	27	6.9	6.8	5.8
R606L 13W LED, 3000K, 80CRI Flood	FL	34°	50000	3543	4	221	2.4	2.4	144	3.3	2.8	2	111	3.5	6.6	2.4	313	2.0	2.7	1.7	3	256	1.7	2.5	2.1
					5	142	3.0	3.0	92	4.2	3.5	3	49	5.2	10.0	3.6	139	3.0	4.0	2.6	4	144	2.3	3.3	2.8
					6	98	3.6	3.6	64	5.0	4.2	4	28	6.9	13.3	4.8	78	4.0	5.3	3.4	5	92	2.9	4.2	3.5
					7	72	4.2	4.2	47	5.8	4.9	5	18	8.7	16.6	6.0	50	5.0	6.6	4.3	6	64	3.5	5.0	4.2
					8	55	4.8	4.8	36	6.6	5.6	6	12	10.4	19.9	7.2	35	6.0	8.0	5.1	7	47	4.0	5.8	4.9
R606L 13W LED, 3000K, 80CRI Wide Flood	WFL	42°	50000	1897	2	474	1.5	1.5	308	2.1	1.7	1.0	237	1.7	5.3	1.5	671	1.0	1.8	1.1	2	308	1.2	2.1	1.7
					3	211	2.3	2.3	137	3.2	2.6	1.5	105	2.6	8.0	2.3	298	1.5	2.7	1.6	3	137	1.7	3.2	2.6
					4	119	3.0	3.0	77	4.2	3.5	2.0	59	3.5	10.6	3.0	168	2.0	3.5	2.1	4	77	2.3	4.2	3.5
					5	76	3.8	3.8	49	5.3	4.4	2.5	38	4.3	13.3	3.8	107	2.5	4.4	2.7	5	49	2.9	5.3	4.4
					6	53	4.5	4.5	34	6.4	5.2	3.0	26	5.2	16.0	4.5	75	3.0	5.3	3.2	6	34	3.5	6.4	5.2

CRI	CCT	Multiplier
80	27K	0.95
	30K	1.00
	35K	1.03
	40K	1.05
90	27K	0.79
	30K	0.85
	35K	0.86
	40K	0.90

APPENDIX II



WALL MOUNT /
MULLION MOUNT LED

Fixture Type	Date
Job Name	Approved By
Catalog Number	

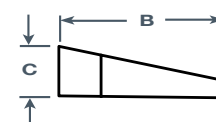
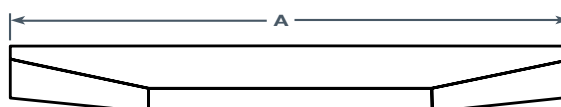


SPECIFICATIONS

Description	The Blade BLD combines a sleek, patent pending design shaped with high performance, full cut off optics to achieve unobtrusive illumination of a space or path of egress. When mounted over a doorway or mullion, the fixture is perceived as an element of the building structure, and, additionally, provides water protection in the form of a drip cap over the entranceway. Multiple lengths are available to match a given door opening and our quick-mount system facilitates installation and maintenance.
Housing	Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat.
Wall Mount	Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat. Designed to provide quick mounting to housing and secured with (2) captive stainless steel TORX® head screws.
Lens Frame	Marine grade heat treated extruded aluminum. Secured to fixture (4) captive stainless steel TORX® head screws.
Lens	Extruded UV stabilized opal polycarbonate with integral prisms. Maximum wall thickness 0.160". Secured to housing with die cast aluminum clamps and stainless steel TORX® head screws.
End Plate	Die-cast marine grade aluminum. Chemically primed and finished with robotically applied polyester powder coat.
Drivers	Dimming to 1%, 10% or Programable Lumen Output driver options. Non-Dimming Driver is also available.
LED	Samsung LM561B+ series @ 2700K, 3000K, 3500K, 4000K, or 5000K and 82 CRI wired in parallel-series. L70 projected life of over 130,000 hours at 50°C.
Gaskets	Closed cell self-adhesive neoprene to provide watertight seal between fixture and mounting surface.
UL Listing	U.L., C.UL. Wet Location Listing standard.
Government Procurement	BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations. BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to www.acuitybrands.com/buy-american for additional information.
Warranty	Lifetime warranty, Luminaire LED incorporated will repair or replace any fixture damaged due to vandalism for the lifetime of the installation. 10-year warranty on LED boards against operational defects. Tested in accordance with LM-80. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed.
Note	Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. The product images shown are for illustration purposes only and may not be an exact representation of the product. Specifications subject to change without notice.

DIMENSIONAL DATA

	A	B	C
BLD12	20.0"	5.6"	2.4"
BLD24	30.8"	5.6"	2.4"
BLD36	41.6"	5.6"	2.4"
BLD48	52.4"	5.6"	2.4"
BLD72	74.0"	5.6"	2.4"



ORDERING INFORMATION

Example: BLD 48IN MIN1 35W 27K 120 DP WHT

Series*	Size (Nominal)* ¹	Drivers*	Dual Drivers	Wattage (Nominal) ¹	Lumens (For PRD Only)
BLD Mullion Mountable Vandal Resistant Full Cut-off Path of Egress Luminaire	12IN ^{2,3} 24IN ^{4,5,6} 36IN ⁷ 48IN ⁸ 72IN	MIN1 Dimming to 1% MIN10 Dimming to 10% NODIM Non-Dimming Driver PRD Driver Programmed to Specific Lumen Output Consult Factory <i>PRD not available with Wattage PRD standard 0-10V dimming to 1%</i>	2DRV ^{9,10} Two LED drivers for independent LED board operations.	5W 20W 55W 10W 30W 15W 35W <i>Required for all drivers except PRD driver</i>	200LM - 6300LM - Lumens available in 100LM increments <i>Lumens required if PRD driver chosen</i>

CCT*	Voltage*	Lens*	Finish*
27K 2700K	120 120 Volt	DP Diffused Polycarbonate	BLK Black
30K 3000K	277 277 Volt		WHT White
35K 3500K	MVOLT 120-277 Volt		BRZ Bronze
40K 4000K	347 ^{9,11,12} 347 Volt		GRY Gray
50K 5000K			SIL Silver
			CUST Custom Color, Consult Factory
			RALTB Ral Paint finishes
			RALTB for pricing only. Replace with applicable RAL call out when ready to order. See the RAL BROCHURE for available options

*Required

OPTIONS

Emergency ¹³			
EMB310	Self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F). 1000 lumens	EMB20R ^{15,16}	Remote mounted micro inverter that will operate a 25W maximum load for 90 min. 0°C (32°F) to 45°C (113°F)
EMB310ST	Self-testing, self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F) Meets CA Title 20 Standards. 1000 lumens	EMB125R ¹⁶	Remote inverter that will operate a maximum 125W load for 90 min. 20°C (68°F) to 30°C (86°F)
EMB310T20	Self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F). Meets CA Title 20 standards. 1000 lumens	EMB250R ¹⁶	Remote inverter that will operate a 250W maximum load for 90 min. 20°C (68°F) to 30°C (86°F)
EMB10ST	Self-testing, self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F) Meets CA Title 20 Standards. 1000 lumens		
EMBDA ^{14,19}	Two drivers and two emergency battery packs self-contained within fixture for independent light engine operation. Each battery pack will operate each light engine for a minimum of 90 minutes		

Knockout	Fusing	Photocell	Sensors	Hardware
K02 Optional mouse hole in both end caps for accessing 1/2" knockout	GLR ¹⁷ Fuse and Fuse Holder	PC ^{11,17} Photoelectric Switch	PIR ¹⁸ Passive Infrared Occupancy Sensor/Daylight Harvesting Photocell. Maximum coverage 10' radius from 8' height. PIR50 ^{9,18,19} Passive Infrared Occupancy Sensor/Daylight Harvesting Photocell. Maximum coverage 10' radius from 8' height. 50% of LED's constantly on and 50% sensed on/off <i>RCHRC required for Field Adjustable Settings</i>	PHSC Phillips Head instead of TORX® head

Ordering Notes

- See Size and Wattage Chart
- Not available with EMB10ST, EMB310, EMB310ST, or EMB310T20
- 12IN with MIN1 or PRD; Not available with PIR
- Not available with MIN1 or PRD and EMB10ST, EMB310, EMB310ST, or EMB310T20
- Not available with 2DRV and PIR or PIR50
- Not available with PIR or PIR50 and EMB10ST, EMB310, EMB310ST, or EMB310T20
- 36IN with MIN1 or PRD; Not available with 2DRV and EMB10ST, EMB310, EMB310ST, EMB310T20
- 48IN with MIN1 or PRD; Not available with 2DRV and PIR or PIR50 and EMB10ST, EMB310, EMB310ST, or EMB310T20
- Not available with 12IN
- 24IN with 2DRV; Not available with EMB10ST, EMB310, EMB310ST, or EMB310T20
- Not available with PIR or PIR50
- Not available in 24IN with 2DRV
- Not available with 347
- Only available in 72IN
- Not available with Wattage or 25W or PRD
- Not available with MVOLT
- Not available with MVOLT or 347
- Not available with EMB20R, EMB125R, EMB250R
- Must include 2DRV

Accessories: Order as separate catalog number.	
TXSD	TORX® Screwdriver Bit <i>Initial shipment includes one (1) TXSD per fixture</i>
RCHRC	Remote Control for Field Adjustable Sensor Settings <i>One (1) RCHRC per Job for PIR/PIR50 Sensor. Optional</i>

SIZE & WATTAGE CHART

Size	Wattage
12IN	5W 10W
24IN	10W 20W
36IN	15W 30W
48IN	20W 35W
72IN	30W 55W

SIZE & LUMEN CHART (For PRD)

Size	Lumen Range
12IN	200LM - 1000LM
24IN	400LM - 2100LM
36IN	600LM - 3100LM
48IN	800LM - 4100LM
72IN	1200LM - 6300LM

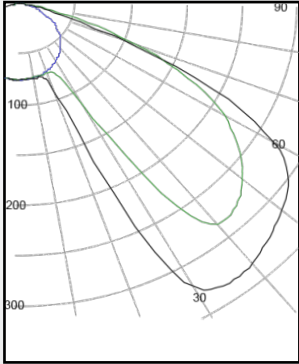
PHOTOMETRIC DATA

Model	Watts	Input Watts	Delivered Lumens				
			2700K	3000K	3500K	4000K	5000K
BLD 12IN	5W	6.5W	447	452	461	476	490
BLD 12IN	10W	11.8W	875	885	903	931	958
BLD 24IN	10W	10.6W	962	973	993	1024	1055
BLD 24IN	20W	21.3W	1885	1907	1946	2006	2066
BLD 36IN	15W	14.7W	1444	1461	1491	1537	1583
BLD 36IN	30W	29.6W	2828	2860	2919	3009	3099
BLD 48IN	20W	19.6W	1926	1948	1987	2049	2111
BLD 48IN	35W	36.4W	3770	3812	3890	4011	4132
BLD 72IN	30W	29.4W	2969	3003	3064	3159	3254
BLD 72IN	55W	57.1W	5789	5855	5974	6184	6345
BLD xxIN	PRD		Programmable Driver. Must Specify Lumens in Ordering Information, see Chart above.				

PHOTOMETRIC DATA

MODEL: BLD 12IN 5W 40K

Delivered Lumens: 476 Lumens



IES FILE: BLD 12IN 5W 40K

Total Power: 7W

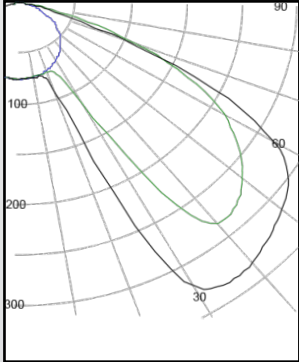
Testing was performed in accordance with IES LM-79-08

Bug Rating: B0U0G1

Zone	Lumens	% Luminaire
0 - 30	69	14.5
0 - 40	149	31.1
0 - 60	359	75.5
60 - 90	117	24.5
0 - 90	476	100.0
90 -180	0	0.0
0 - 180	476	100.0

MODEL: BLD 36IN 15W 40K

Delivered Lumens: 1537 Lumens



IES FILE: BLD 36IN 15W 40K

Total Power: 14.7W

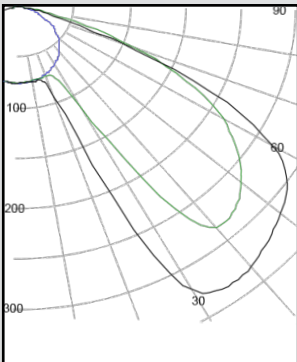
Testing was performed in accordance with IES LM-79-08

Bug Rating: B0U0G1

Zone	Lumens	% Luminaire
0 - 30	377	124.5
0 - 40	640	41.6
0 - 60	1219	79.3
60 - 90	317	20.7
0 - 90	1537	100.0
90 -180	0	0.0
0 - 180	1537	100.0

MODEL: BLD 36IN 30W 40K

Delivered Lumens: 3009 Lumens



IES FILE: BLD 36IN 30W 40K

Total Power: 29.6W

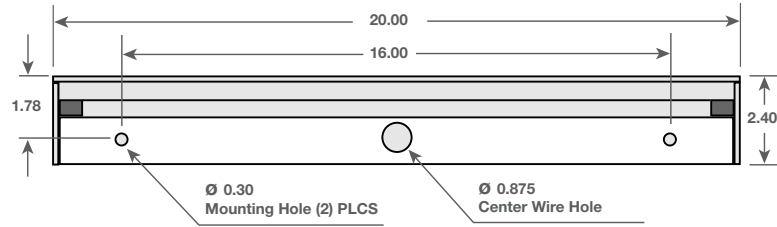
Testing was performed in accordance with IES LM-79-08

Bug Rating: B1U0G1

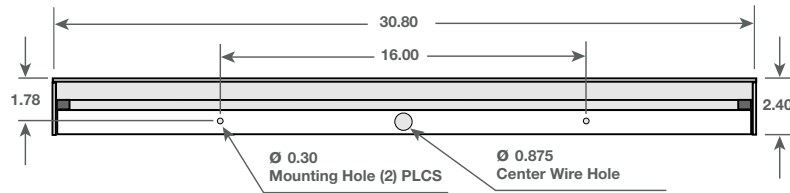
Zone	Lumens	% Luminaire
0 - 30	739	24.6
0 - 40	1253	41.6
0 - 60	2387	79.3
60 - 90	622	20.7
0 - 90	3009	100.0
90 -180	0	0.0
0 - 180	3009	100.0

MOUNTING PLATE DETAILS

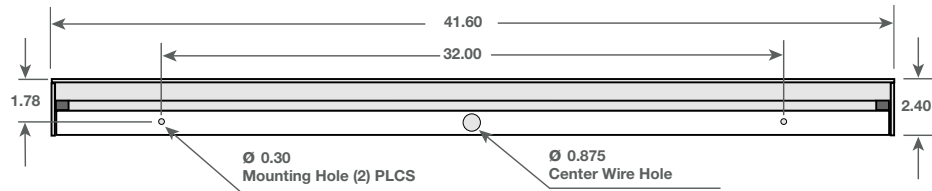
BLD12



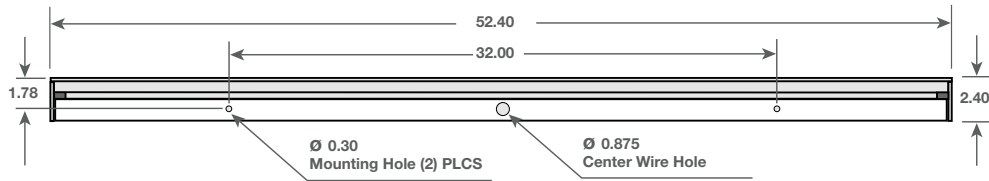
BLD24



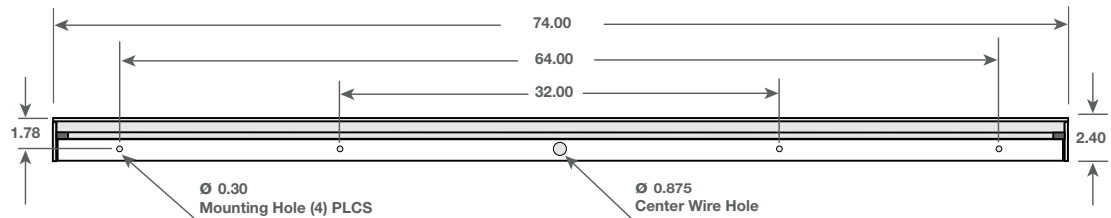
BLD36



BLD48



BLD72



APPENDIX III

FEATURES & SPECIFICATIONS

INTENDED USE — Suitable for applications requiring both exit sign and unit equipment. Attractive, 8" tall, streamlined design is great for above-the-door applications and other tight fits. Optional high-output version with remote lamps are ideal for emergency egress lighting. **Certain airborne contaminants can diminish integrity of acrylic and/or polycarbonate.** [Click here for Acrylic/Polycarbonate Compatibility table for suitable uses.](#)

CONSTRUCTION — Engineering-grade thermoplastic housing is impact-resistant, scratch-resistant and corrosion-proof. UL94V-0 flame rating. UV-stable resin resists discoloration from natural and man-made light sources. Rugged unibody housing snaps together with no additional fasteners. Faceplate and back cover are interchangeable on housing. Positive snap-fit tabs hold faceplate securely, yet are easily removable for lamp compartment access. Universal, directional chevron inserts are easily removed and reinserted.

Uniform graphics illumination without shadows or hot spots. Letters are 6" high with 3/4" stroke, with 100 ft. viewing distance rating based upon UL924 standard.

LEDs mounted on primary circuit boards for sign illumination. Low-energy LED lamp in sign operates in normal (AC input) and emergency (DC input) modes.

Low-profile, integrated test switch/pilot light. Easily viewed bright red status indicator.

Unique track-and-swivel arrangement permits full range of direction of lamp head adjustment. Universal J-box mounting pattern. Tool-less access for maintenance. Conduit entry position on top of unit.

U.S. Patent No. 6,848,798; 6,499,866; 6,142,648; 5,797,673; D379,373; 5,526,251; D484,272; D473,672; 5,611,163; 5,646,502.

OPTICS — Twin LED lamp heads operate in emergency (DC input) mode with 12 series-parallel white LEDs in each head. Provides redundant light sources to ensure emergency lighting performance. The typical life of the exit LED lamp is >5 years, based on 24/7 operation.

ELECTRICAL — Dual-voltage input capability (120/277V). Edge connector on printed circuit board ensures long-term durability.

Current-limiting charger maximizes battery life and minimizes energy consumption. Provides low operating costs.

Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts.

Thermal compensation adjusts charger output to provide optimum charge voltage relative to ambient temperature.

Regulated charge voltage maintains constant-charge voltage over a wide range of line voltages. Prevents over/undercharging that shortens battery life and reduces capacity.

Filtered charger input minimizes charge voltage ripple and extends battery life.

AC/LVD reset allows battery connection before AC power is applied and prevents battery damage from deep discharge.

Single multi-color LED indicator to display two-state charging, test activation and three-state diagnostic test. Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection. Self-diagnostic testing for 30 seconds every 30 days, 30 minutes at 180-day interval, and 90 minutes annually. Diagnostic evaluation of LED light source, AC-to-DC transfer, charging and battery condition.

Battery: Sealed, maintenance-free nickel-cadmium battery delivers 90-minute capacity to emergency lamps. Two-state constant-current charge maximizes battery life and automatically recharges after battery discharge. Low-voltage disconnect prevents excessively deep discharge that can permanently damage the battery. Optional high-output battery to power both local and optional LED remote lamp heads simultaneously.

INSTALLATION — Universal mounting canopy for top or end mount. Back mount standard for single face only. Housing snaps to canopy with positive-locking tabs. Cam locking pin secures housing to canopy.

Easily removed mounting knockouts. Conduit entry knockout for 1/2" flexible conduit. J-box pattern on back panel.

Ships standard as single face exit with additional face plate and color panel. Allows capability to convert a single sided exit to a double sided exit in the field.

LISTINGS — UL damp location listed standard 50°-104°F (10°-40°C). Meets UL 924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards. Meets all applicable FCC Title 47, Part 15, Subpart B requirements.

BUY AMERICAN ACT — BAA — Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. (Battery is prorated). This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

† Exit Signs Certified in the CA Title 20 Appliance Efficiency Database.

Catalog Number
Notes
Type



QUANTUM[®]
Thermoplastic Exits

LHQM LED

LED Lamp Head
Nickel-Cadmium Battery



HO RO



LHQM LED QUANTUM® Exit/Unit Combo

ORDERING INFORMATION

Example: LHQM LED B G SD M6

Catalog Number	Description
LHQM LED G SD M6	White Thermoplastic, LED Exit/Adjustable LED 2 Headed Unit Combo, Single Stencil Face, with Extra Face Plate, Green Letters, Ni-Cad Battery, Self Diagnostic
LHQM LED B G SD M6	Black Thermoplastic, LED Exit/Adjustable LED 2 Headed Unit Combo, Single Stencil Face, with Extra Face Plate, Green Letters, Ni-Cad Battery, Self Diagnostic
LHQM LED G HO SD M6 ¹	White Thermoplastic, LED Exit/Adjustable LED 2 Headed Unit Combo, Single Stencil Face, with Extra Face Plate, Green Letters, High Output Ni-Cad Battery, Self Diagnostic
LHQM LED B G HO SD RO M6 ¹	Black Thermoplastic, LED Exit/Adjustable LED 2 Headed Unit Combo, Single Stencil Face, with Extra Face Plate, Green Letters, High Output Ni-Cad Battery, Less Heads, Self Diagnostic

Notes

- When operating ERE SQ T remotes off of HO battery, temperature range of LHQM LED is limited to 68°-104°F (20°-40°C), with a 48-hour battery recharge time.
- Not available with SD. Only available with HO or HO RO configurations. WP (weather proof) only available in black or gray. See spec sheet [ERE](#). When operating ERE SQ T remotes off of HO battery, temperature range of LHQM LED is limited to 68°-104°F (20°-40°C), with a 48-hour battery recharge time.
- Only available with HO SD or HO SD RO configurations. WP (weather proof) only available in black or gray. See spec sheet [ERE](#). When operating ERE SQ T remotes off of HO battery, temperature range of LHQM LED is limited to 68°-104°F (20°-40°C), with a 48-hour battery recharge time.

Accessories: Order as separate catalog number.			
ELA WG3	Wireguard, 30" W x 13-1/2" H x 6" D (See spec sheet ELA-WG .)	ERE W SGL SD SQ M12	Single, LED indoor remote head, square, white, self-diagnostics, 1W, 3.6V-12V voltage sensing ³
ELA LQMUS12	12" white stem kit (See spec sheet ELA-Stemkits .)	ERE W T SD SQ M12	Twin, LED indoor remote head, square, white, self-diagnostics, 2W, 3.6V-12V voltage sensing ³
ERE W SGL SQ M12	Single, LED indoor remote head, square, ivory white, .75W, 3.6V-12V voltage sensing ²	ERE B SGL SD SQ M12	Single, LED indoor remote head, square, black, self-diagnostics, 1W, 3.6V-12V voltage sensing ³
ERE W T SQ M12	Twin, LED indoor remote head, square, ivory white, 1.5W, 3.6V-12V voltage sensing ²	ERE B T SD SQ M12	Twin, LED indoor remote head, square, black, self-diagnostics, 2W, 3.6V-12V voltage sensing ³
ERE GY SGL WP SQ M12	Single, LED weather-proof remote head, square, gray, 1W, 3.6V-12V voltage sensing ²	ERE B SGL SD WP SQ M12	Single, LED weather-proof remote head, square, black, self-diagnostics, 1W, 3.6V-12V voltage sensing ³
ERE GY T WP SQ M12	Twin, LED weather-proof remote head, square, gray, 2W, 3.6V-12V voltage sensing ²	ERE B T SD WP SQ M12	Twin, LED weather-proof remote head, square, black, self-diagnostics, 2W, 3.6V-12V voltage sensing ³
		ERE GY SGL SD WP SQ M12	Single, LED weather-proof remote head, square, gray, self-diagnostics, 1W, 3.6V-12V voltage sensing ³
		ERE GY T SD WP SQ M12	Twin, LED weather-proof remote head, square, gray, self-diagnostics, 2W, 3.6V-12V voltage sensing ³

LHQM LED Catalog	Remotes Compatibility Matrix			
	non-SD or SD Indoor Remote		non-SD or SD Outdoor Remote	
	SINGLE	TWIN	SINGLE	TWIN
LHQM LED HO	(4) ERE W SGL SQ M12	(2) ERE W T SQ M12	(4) ERE GY SGL WP SQ M12	(2) ERE GY T WP SQ M12
LHQM LED HO RO	(8) ERE W SGL SQ M12	(6) ERE W T SQ M12	(6) ERE GY SGL WP SQ M12	(3) ERE GY T WP SQ M12
LHQM LED HO SD	(4) ERE W SGL SD SQ M12	(2) ERE W T SD SQ M12	(3) ERE B SGL SD WP SQ M12	(1) ERE B T SD WP SQ M12
LHQM LED HO RO SD	(8) ERE W SGL SD SQ M12	(6) ERE W T SD SQ M12	(6) ERE B SGL SD WP SQ M12	(3) ERE B T SD WP SQ M12

Remote Output Capacity			
Standard unit	Combo	Combo/high-output battery(HO)	Combo/high-output (HO) and no heads (RO)
NA	NA	3W	6W

*See spec sheet for more information. When operating twin configurations (ERE SQ) the temperature range of the LHQM LED HO is limited to 68°-104°F (20° - 40°C), with a 48-hour battery recharge time. Additional remotes cannot exceed total wattage of fixture with remote capacity. Refer to the Remote Output Capacity table

EXTENDED RUN-TIME FOR HIGH-OUTPUT EXITS

Product	Run time
LHQM LED HO (no remotes)	3.8 hours
LHQM LED HO RO (no remotes)	7.5 hours

LHQM LED QUANTUM® Exit/Unit Combo

SPECIFICATIONS

Electrical				
Primary Circuit				
	Typical LED life ¹	Supply voltage	Max amps	Max watts
Red and green LED	>5 years	120	.05	4.3
		277	.03	4.3

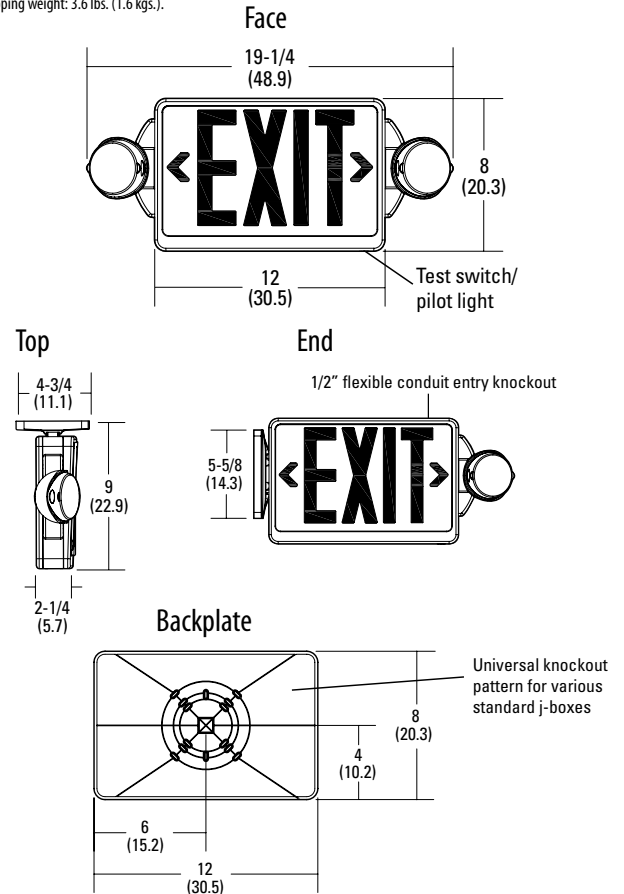
BATTERY

Ni-Cad				
Voltage	Typical Shelf life ²	Typical life ²	Maintenance ³	Temperature range ⁴
9.6	3 years	6-8 years	none	50-104°F (10-40°C)

- Based on 24/7 operation. The typical life of the exit LED lamp is >5 years.
- At 77°F (25°C).
- All life safety equipment, including emergency lighting path of egress, must be maintained, serviced and tested in accordance with all National Fire Protection Association and local codes. Failure to perform the required maintenance, service or testing could jeopardize the safety of occupants and will void all warranties.
- Temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity.
- Battery life is negatively impacted by many variables including temperature, charging rates, number of cycles and deep discharges due to long periods of time without AC power.

MOUNTING

All dimensions are inches (centimeters).
Shipping weight: 3.6 lbs. (1.6 kgs.).

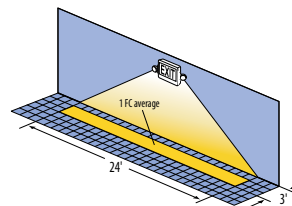


LAMP PHOTOMETRICS

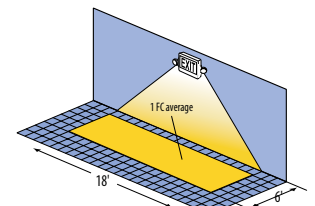
QUANTUM LED SERIES – SINGLE COVERAGE

3W Total White LEDs

Using a single unit at a typical 7.5' mounting height delivers an average illuminance of 1.0 FC over a distance of 24' on a 3' path of egress and 18' on a 6' path of egress.



Example of single LHQM LED exit illuminating a 3' path of egress

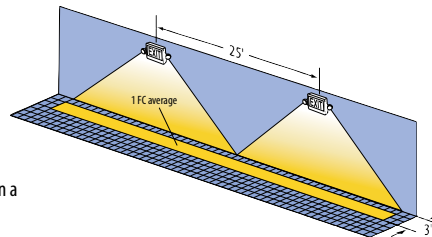


Example of single LHQM LED exit illuminating a 6' path of egress

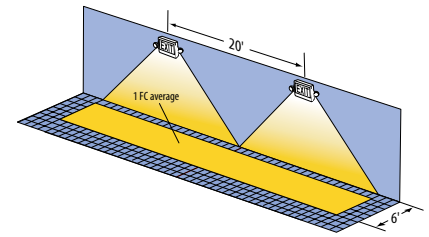
QUANTUM LED SERIES – MULTIPLE COVERAGE

3W Total White LEDs

Using multiple units at a typical 7.5' mounting height delivers 25' center-to-center spacing on a 3' path of egress and 20' center-to-center spacing on a 6' path of egress.



Example of multiple LHQM LED exits illuminating a 3' path of egress



Example of multiple LHQM LED exits illuminating a 6' path of egress

APPENDIX IV

CONSTRUCTION DOCUMENTS

FOR:

EL SEGUNDO SKATE PARK

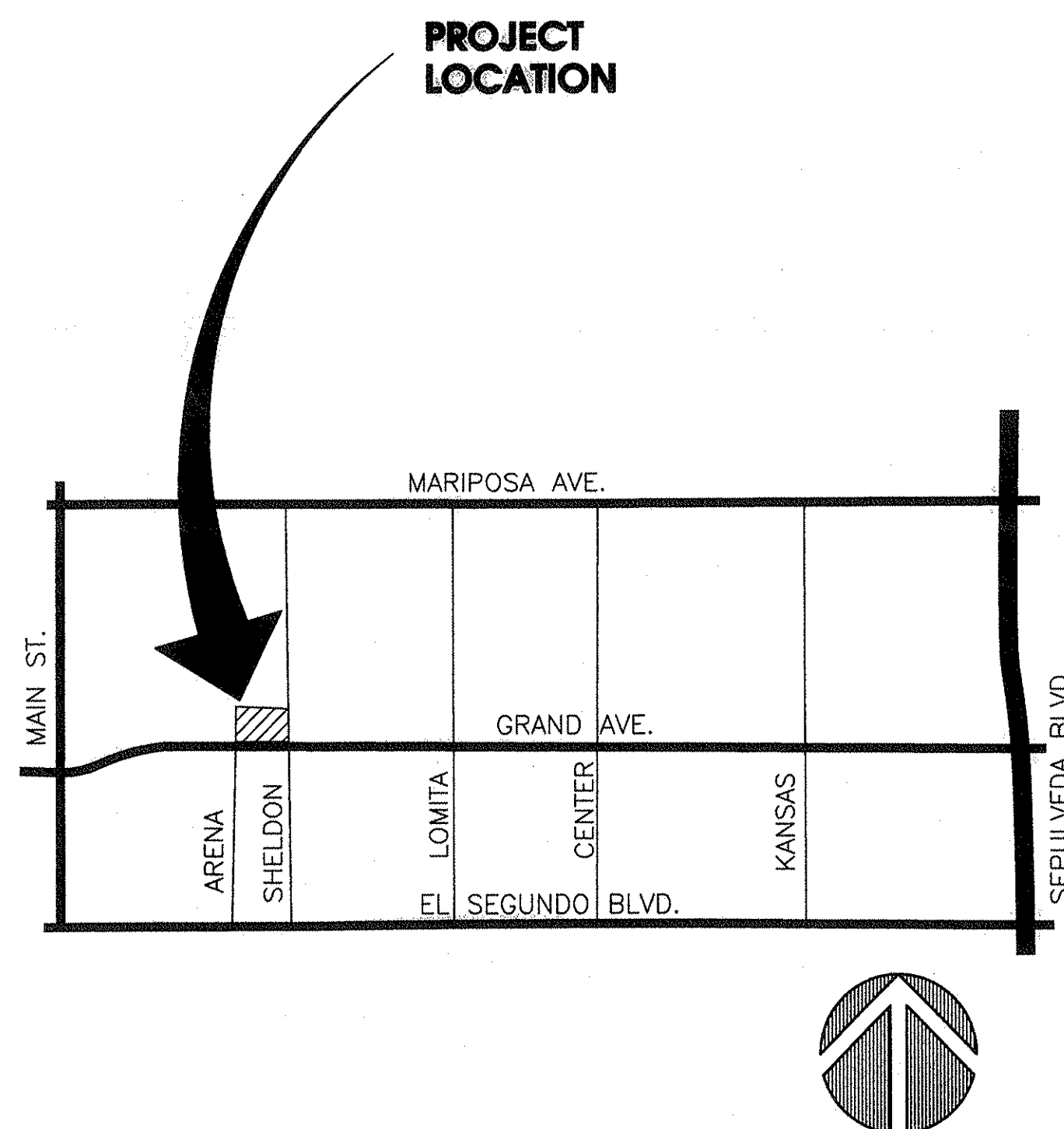
14,000 SQ. FT.

REVISIONS

TITLE SHEET

SHEET TITLE

VICINITY MAP:



UTILITIES:

SOUTHERN CALIFORNIA EDISON CO.

PHONE: (800) 655-4555

PUBLIC WORKS WATER DEPT.

400 LOMITA STREET
 EL SEGUNDO, CA 90245
 PHONE: (310) 524-2742

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

PHONE: (800) 422-4133

CONSULTANTS:

ELECTRICAL ENGINEERS:
CONSOLIDATED ENGINEERING
 14661 MYFORD RD. SUITE C
 TUSTIN, CA. 92780
 PHONE: (714) 832-6346
 FAX: (714) 832-9427

STRUCTURAL ENGINEERS:
INTEGRAL CONSULTANTS
 10 LYNNFIELD
 IRVINE, CA 92620
 PHONE: (714) 573-0570
 FAX: (714) 573-0529

PRIME CONSULTANTS:

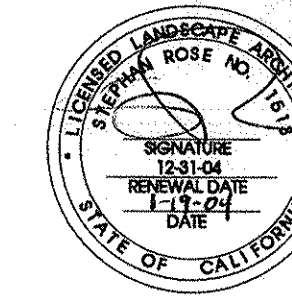
LANDSCAPE ARCHITECTS:
PURKISS-ROSE / RSI
 801 N. HARBOR BOULEVARD
 FULLERTON, CA. 92632
 PHONE: (714) 871-3638
 FAX: (714) 871-1188

GENERAL NOTES:

- A. ALL CONSTRUCTION SHALL BE ACCORDING TO CONSTRUCTION DOCUMENTS PREPARED BY PURKISS ROSE/RSI LANDSCAPE ARCHITECTURE, RECREATION AND PARK PLANNING AND SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS.
- B. CORRELATION OF DRAWINGS AND SPECIFICATIONS: ANY WORK NOT INDICATED ON THE DRAWINGS BUT CALLED FOR IN THE SPECIFICATIONS, OR VICE-VERSA, SHALL BE FURNISHED AND PERFORMED AS THOUGH SPECIFICALLY INDICATED AND CALLED FOR IN BOTH. ANY WORK NOT INSTALLED ACCORDING TO DRAWINGS AND SPECIFICATIONS OR ORDINANCES AND LAWS SHALL BE REPLACED.
- C. DO NOT SCALE DRAWINGS. USE DIMENSIONS INDICATED EXCEPT ON IRRIGATION PLANS.
- D. ANY DISCREPANCY IN THE DRAWINGS OR SPECIFICATIONS SHALL BE CALLED TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT. FAILURE TO DO SO WILL PLACE RESPONSIBILITY ON THE CONTRACTOR FOR CORRECTION.
- E. PERMITS, FEES, ETC. THE CONTRACTOR SHALL ARRANGE AND PAY FOR THE BUILDING PERMIT AND EACH SUBCONTRACTOR SHALL ARRANGE AND PAY FOR PERMITS FOR THEIR RESPECTIVE WORK.
- F. CONTRACTOR SHALL VERIFY ON SITE, ALL DIMENSIONS AND LOCATION OF ANY UNDERGROUND UTILITIES.
- G. PLANS SHALL COMPLY W/ THE 1998 CBC,CMC,GPC AND CEC.
- H. ADDITIONAL MECHANICAL, ELECTRICAL AND PLUMBING PERMITS SHALL BE OBTAINED AS REQUIRED.

SHEET INDEX:

T-1	TITLE SHEET	IR-1	IRRIGATION PLAN
D-1	DEMO PLAN	IR-2	IRRIGATION PLAN
D-2	DEMO PLAN	R-1	RAMP CHART
G-1	GRADING PLAN	S-1	STRUCTURAL NOTES
G-2	GRADING PLAN	S-2	FOUNDATION PLAN
CL-1	CONSTRUCTION PLAN	S-3	STRUCTURAL DETAILS
CL-2	CONSTRUCTION PLAN	S-4	STRUCTURAL DETAILS
DT-1	CONSTRUCTION DETAILS	E-1	ELECTRICAL SITE PLAN
DT-2	CONSTRUCTION DETAILS	E-2	ELECTRICAL DETAILS
DT-3	PLANTING/IRRIGATION DETAILS		
PL-1	PLANTING PLAN		
PL-2	PLANTING PLAN		

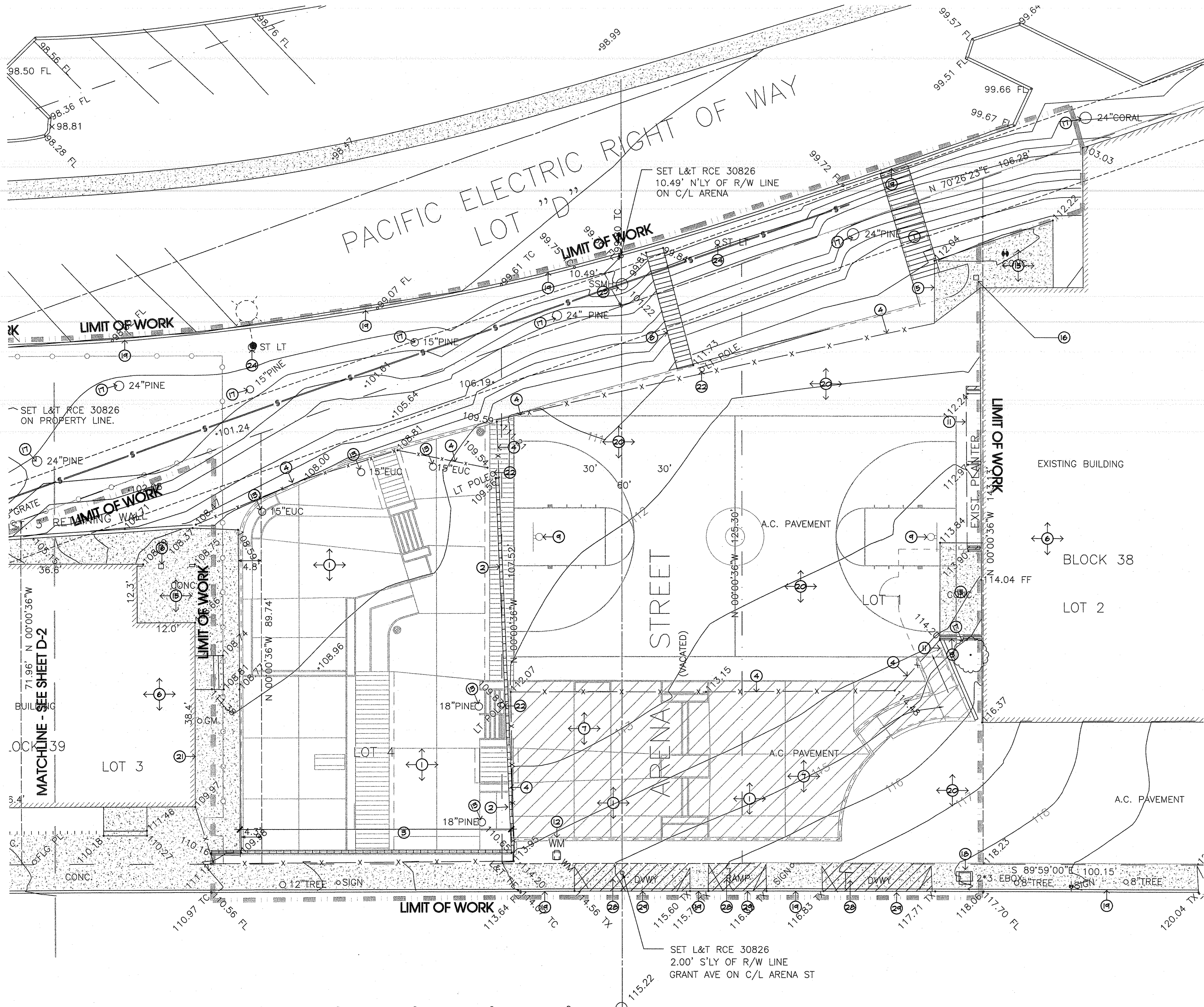


SIGNATURE BLOCK:

EL SEGUNDO SKATE PARK
 CITY OF EL SEGUNDO
 405 EAST GRAND AVE.
 EL SEGUNDO, CA 90245

CLIENT
 SCALE:
NO SCALE
 DATE:
01/08/04
 DRAWN BY:
RJE
 PROJECT NO.:
01-197

SHEET NO.
T-1
 OF



DEMOLITION NOTES:

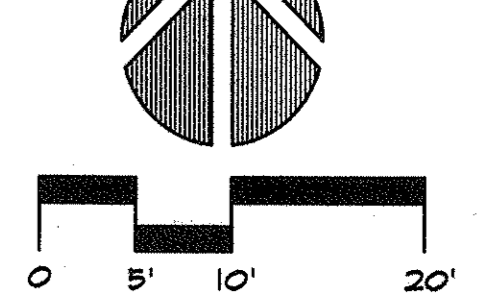
- DEMOLITION AND REMOVAL WORK SHALL BE CAREFULLY PERFORMED TO AVOID DAMAGE TO EXISTING TREES NOTED ON THE PLANS AS REMAINING.
- ALL REMOVAL WORK (EXCEPT AS NOTED) SHALL BE DISPOSED OF OFF-SITE, IN A LEGAL MANNER, AT THE CONTRACTOR'S EXPENSE.
- CLEAR THE SITE OF GRASS, WEED GROWTH, RUBBISH, DEBRIS, PAVEMENT, CONCRETE, INACTIVE OR ABANDONED FACILITIES (VERIFIED BY THE AGENCY), ETC., THAT ARE TO BE REMOVED FOR CONSTRUCTION OF THE SITE IMPROVEMENTS TO THE LIMITS AND DEPTHS SHOWN ON THE PLANS.
- ABANDONED UNDERGROUND FACILITIES (VERIFIED BY THE AGENCY), ROOTS THREE INCHES IN DIAMETER AND LARGER, ROCKS AND BROKEN MASONRY LARGER THAN FOUR INCHES IN ANY DIMENSION SHALL BE REMOVED TO A MINIMUM DEPTH OF 12\"/>

DEMOLITION LEGEND:

- CLEARING AND GRUBBING OF SITE - ALL EXISTING PLANT MATERIAL AND/OR WASTE TO BE REMOVED AND DISPOSED OFF SITE.
- EXISTING WALL TO BE REMOVED AND DISPOSED OFF SITE.
- EXISTING WALL TO REMAIN. PROTECT IN PLACE.
- EXISTING CHAIN LINK FENCE, AND FOOTINGS, TO BE REMOVED, AND DISPOSE OFF SITE.
- EXISTING CHAIN LINK FENCE, AND FOOTINGS, TO BE REMOVED AND TURNED OVER TO CITY.
- EXISTING BUILDING AND FOOTINGS TO REMAIN. PROTECT IN PLACE.
- A.C. TO BE REMOVED AND DISPOSED OFF SITE.
- REMOVE EXISTING STAIR SYSTEM - DISPOSE OFF SITE PROPERTY.
- EXISTING BASKETBALL EQUIPMENT TO BE REMOVED AND SURRENDERED TO CITY - PATCH AND REPAIR CONCRETE AS NECESSARY.
- NOT USED.
- EXISTING BRICK PLANTER TO REMAIN. PROTECT IN PLACE.
- EXISTING WATER METER TO REMAIN IN PLACE - PROTECT IN PLACE.
- EXISTING TREES TO BE REMOVED AND DISPOSED OFF SITE.
- NOT USED.
- EXISTING CONCRETE PAVING TO REMAIN PROTECT IN PLACE.
- EXISTING DRAIN TO REMAIN PROTECT IN PLACE.
- EXISTING TREES TO REMAIN PROTECT IN PLACE.
- EXISTING ELEC. VAULT TO REMAIN PROTECT IN PLACE.
- EXISTING CURB AND/OR SIDEWALK TO REMAIN PROTECT IN PLACE.
- EXISTING A.C. PAVING TO REMAIN PROTECT IN PLACE.
- EXISTING CANDOPY TO REMAIN PROTECT IN PLACE.
- EXISTING LIGHT POLE TO BE REMOVED OF & DISPOSED OF OFFSITE.
- EXISTING MANHOLE TO REMAIN, PROTECT IN PLACE.
- EXISTING LIGHTPOLE TO REMAIN, PROTECT IN PLACE.
- EXISTING STEPS & RAIL TO REMAIN, PROTECT IN PLACE.
- EXISTING CURBING TO BE REMOVED & DISPOSED OF OFFSITE.
- EXISTING STEPS & RAIL TO BE REMOVED & DISPOSED OF OFFSITE.
- EXISTING DRIVE APPROACH AND/OR RAMP TO BE REMOVED & DISPOSED OF OFFSITE.
- EXISTING CURB & GUTTER @ RAMP TO BE REMOVED & DISPOSED OF OFFSITE.



DIAL TOLL FREE
1-800-422-4133
AT LEAST TWO DAYS
BEFORE YOU DIG



purkiss-rose - rsi
Landscape Architecture
Recreation and Park Planning
881 North Hill Street
Palmdale, California 93552
TEL: (767) 1188
FAX: (767) 1188

REVISIONS

DEMOLITION PLAN

EL SEGUNDO SKATE PARK
CITY OF EL SEGUNDO
405 EAST GRAND AVE.
EL SEGUNDO, CA 90245

CLIENT: EL SEGUNDO SKATE PARK
SCALE: 1"=10'-0"
DATE: 01/08/04
DRAWN BY: T.V.
PROJECT NO: 01-197

SHEET NO. **D-1**

REVISIONS

DEMOLITION PLAN

SHEET TITLE

EL SEGUNDO SKATE PARK
 CITY OF EL SEGUNDO
 405 EAST GRAND AVE.
 EL SEGUNDO, CA 90245

CLIENT

SCALE:
1"=10'-0"
 DATE:
01/08/04
 DRAWN BY:
RJE
 PROJECT NO:
01-197

SHEET NO.

D-2

L-1357

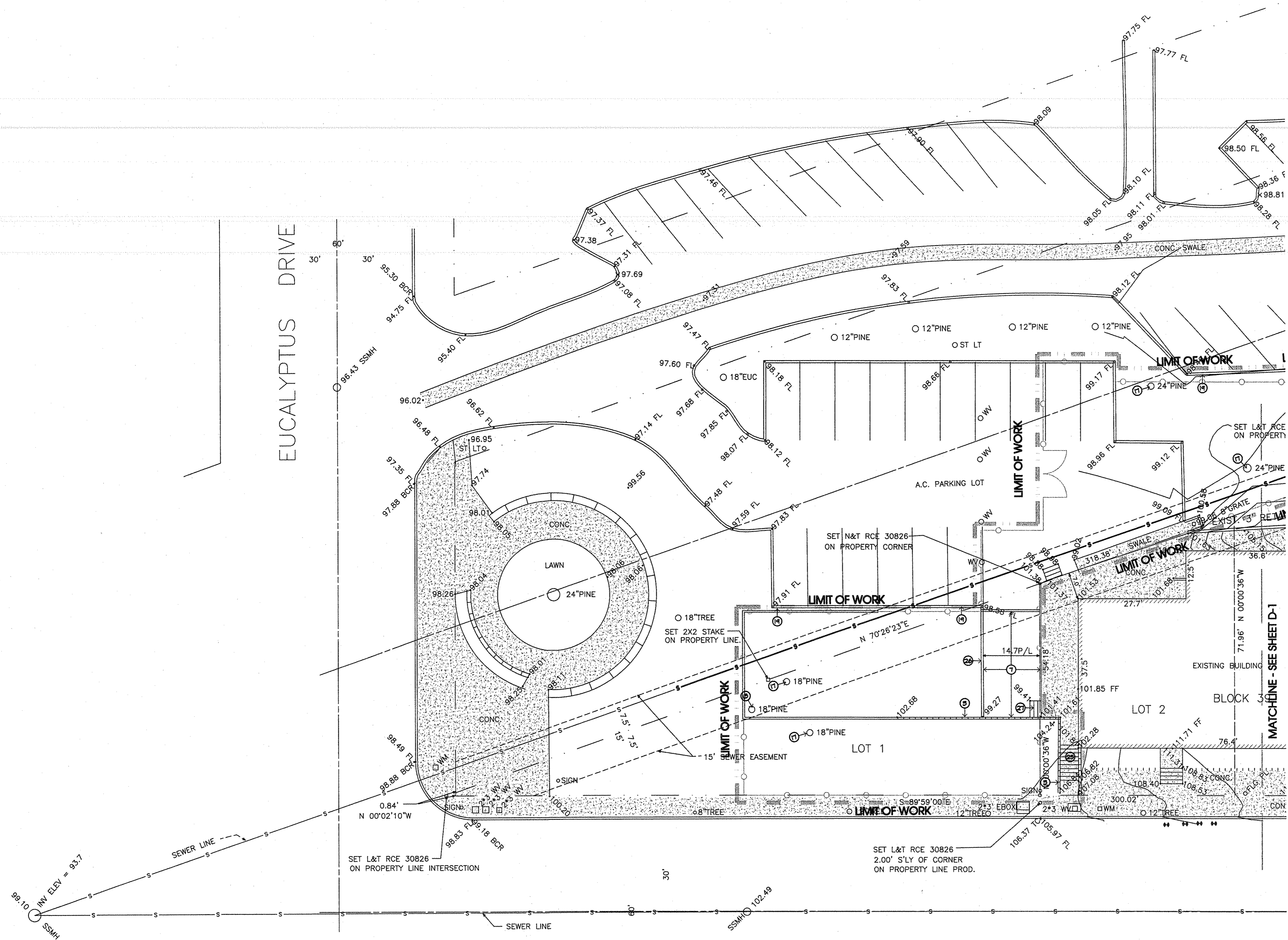
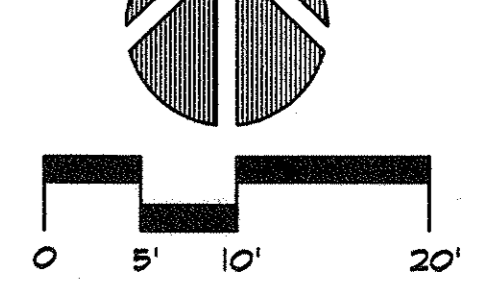
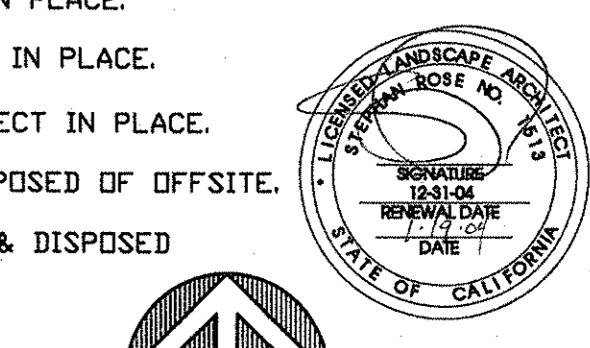
DEMOLITION NOTES:

- DEMOLITION AND REMOVAL WORK SHALL BE CAREFULLY PERFORMED TO AVOID DAMAGE TO EXISTING TREES NOTED ON THE PLANS AS REMAINING.
- ALL REMOVAL WORK (EXCEPT AS NOTED) SHALL BE DISPOSED OF OFF-SITE, IN A LEGAL MANNER, AT THE CONTRACTOR'S EXPENSE.
- CLEAR THE SITE OF GRASS, WEED GROWTH, RUBBISH, DEBRIS, PAVEMENT, CONCRETE, INACTIVE OR ABANDONED FACILITIES (VERIFIED BY THE AGENCY), ETC., THAT ARE TO BE REMOVED FOR CONSTRUCTION OF THE SITE IMPROVEMENTS TO THE LIMITS AND DEPTHS SHOWN ON THE PLANS.
- ABANDONED UNDERGROUND FACILITIES (VERIFIED BY THE AGENCY), ROOTS THREE INCHES IN DIAMETER AND LARGER, ROCKS AND BROKEN MASONRY LARGER THAN FOUR INCHES IN ANY DIMENSION SHALL BE REMOVED TO A MINIMUM DEPTH OF 12" BELOW FINISH GRADE.
- MISCELLANEOUS INACTIVE OR ABANDONED UNDERGROUND FACILITIES LOCATED 12 INCHES OR MORE BELOW FINISH GRADE MAY BE REMOVED WITH AGENCY APPROVAL.
- MISCELLANEOUS ACTIVE LINES WITHIN 12 INCHES OF FINISH GRADE THAT ARE UNCOVERED DURING THE GRADING OPERATIONS SHALL BE PROTECTED.
- ALL DELETERIOUS MATERIALS WITHIN THE LIMITS OF THE WORK SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR, WHO SHALL MAKE ALL NECESSARY ARRANGEMENTS AND PAY ALL RELATED COSTS.
- ACTIVE UTILITIES SHALL BE PROTECTED BY AND AT THE EXPENSE OF THE CONTRACTOR. KEEP ANY REQUIRED UTILITY IN OPERATING CONDITION DURING ENTIRE PERIOD OF WORK, INCLUDING EXISTING IRRIGATION SYSTEMS FOR LANDSCAPE MAINTENANCE.
- INACTIVE OR ABANDONED UTILITIES SHALL BE DISCONNECTED, REMOVED AND FLAGGED OR CAPPED SUBJECT TO THE LOCAL GOVERNING ORDINANCES.
- SHOULD THE CONTRACTOR ENCOUNTER ANY EXISTING UNDERGROUND UTILITIES NOT SHOWN ON THE DRAWINGS, HE SHALL IMMEDIATELY NOTIFY THE AGENCY REPRESENTATIVE WHO WILL DETERMINE FURTHER PROCEDURE.
- BURNING OF DEBRIS WILL NOT BE PERMITTED EXCEPT BY WRITTEN PERMISSION FROM THE AIR POLLUTION CONTROL AUTHORITIES AND GOVERNING FIRE AUTHORITIES.
- VERIFY DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- COORDINATE W/ CITY REPRESENTATIVE TO VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION AND CONSTRUCTION.
- DEMOLITION AND ALTERATIONS REQUIRE NOTIFICATION TO THE AIR QUALITY MANAGEMENT DISTRICT (AQMD) TEN DAYS PRIOR TO THE START OF DEMOLITION. PLEASE SEE THE ATTACHED FORM. PERMITS CAN NOT BE ISSUED UNTIL THE 10 DAY NOTIFICATION PERIOD HAS PASSED.

DEMOLITION LEGEND:

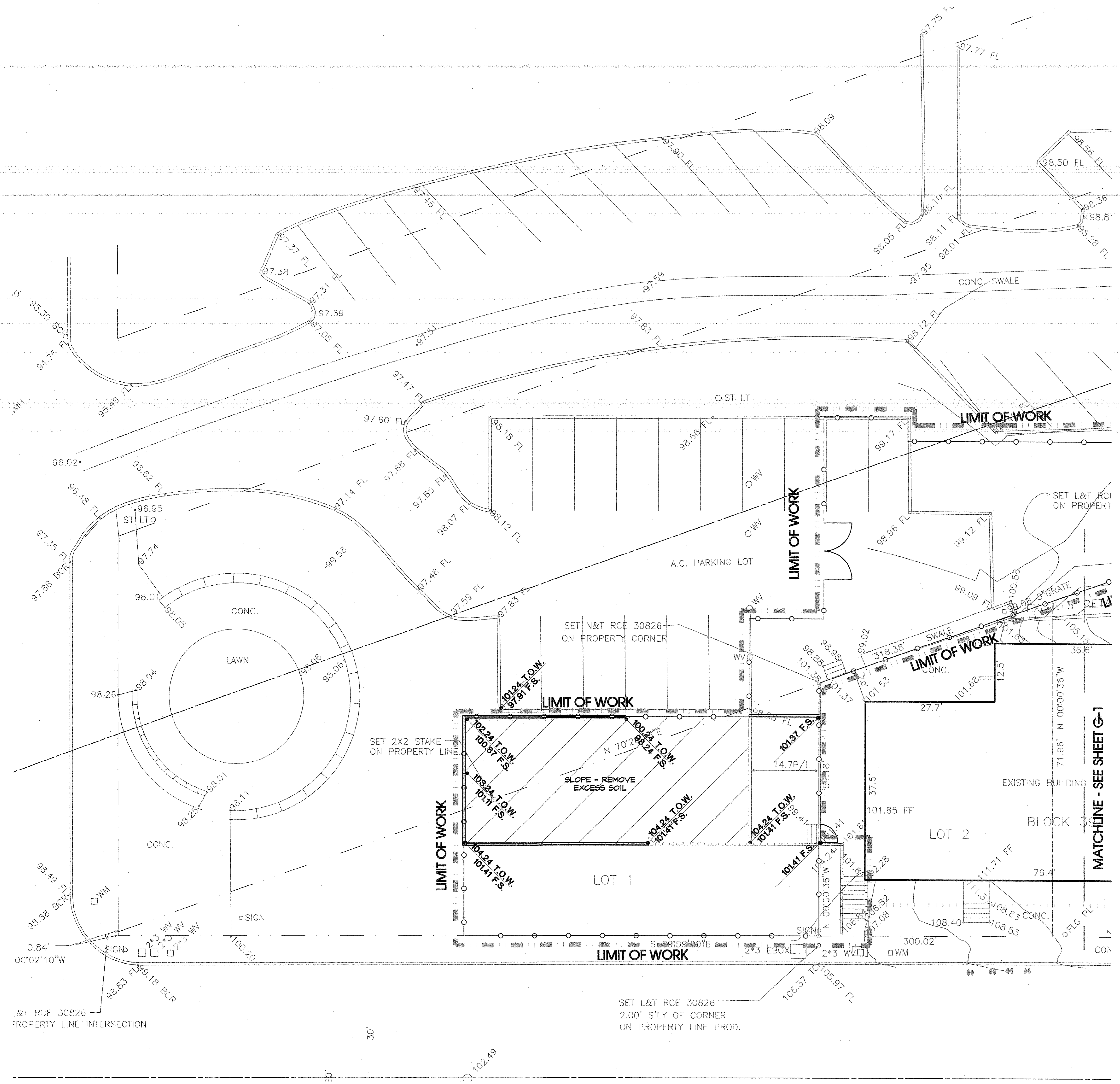
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- EXISTING WALL TO BE REMOVED AND DISPOSED OFF SITE.
- EXISTING WALL TO REMAIN. PROTECT IN PLACE.
- EXISTING CHAIN LINK FENCE, AND FOOTINGS, TO BE REMOVED, AND DISPOSE OFF SITE.
- EXISTING CHAIN LINK FENCE, AND FOOTINGS, TO BE REMOVED AND SURRENDERED TO CITY.
- EXISTING BUILDING AND FOOTINGS TO REMAIN. PROTECT IN PLACE.
- A.C. TO BE REMOVED AND DISPOSED OFF SITE.
- REMOVE EXISTING STAIR SYSTEM - DISPOSE OFF SITE PROPERTY.
- EXISTING BASKETBALL EQUIPMENT TO BE REMOVED AND SURRENDERED TO CITY.
- EXISTING PLANTER WALL TO BE REMOVED AND DISPOSED OFF SITE.
- EXISTING BRICKS TO BE REMOVED AND DISPOSED OFF SITE.
- EXISTING WATER METER TO REMAIN IN PLACE - PROTECT IN PLACE.
- EXISTING TREES TO BE REMOVED AND DISPOSED OFF SITE.
- EXISTING CONCRETE PAVING TO BE REMOVED AND DISPOSED OFF SITE.
- EXISTING CONCRETE PAVING TO REMAIN PROTECT IN PLACE.
- EXISTING DRAIN TO REMAIN PROTECT IN PLACE.
- EXISTING TREES TO REMAIN PROTECT IN PLACE.
- EXISTING ELEC. VAULT TO REMAIN PROTECT IN PLACE.
- EXISTING CURB & SIDEWALK TO REMAIN PROTECT IN PLACE.
- EXISTING A.C. PAVING TO REMAIN PROTECT IN PLACE.
- EXISTING CANOPY TO REMAIN PROTECT IN PLACE.
- EXISTING LIGHT POLE TO BE REMOVED OF & DISPOSED OF OFFSITE.
- EXISTING MANHOLE TO REMAIN, PROTECT IN PLACE.
- EXISTING LIGHTPOLE TO REMAIN, PROTECT IN PLACE.
- EXISTING STEPS & RAIL TO REMAIN, PROTECT IN PLACE.
- EXISTING CURBING TO BE REMOVED & DISPOSED OF OFFSITE.
- EXISTING STEPS & RAIL TO BE REMOVED & DISPOSED OF OFFSITE.

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EUCALYPTUS DRIVE

MATCH-LINE - SEE SHEET D-1



GRADING NOTES:

1. ALL GRADING SHALL BE IN ACCORDANCE WITH THE CITY OF EL SEGUNDO GRADING CODE AND ANY SPECIAL REQUIREMENTS OF THE GRADING PERMIT.
2. SLOPES SHALL BE NO STEEPER THAN 2' HORIZONTAL TO 1' VERTICAL (2:1) AND SHALL HAVE NOT LESS THAN 45% COMPACTION OUT TO THEIR FINISH SURFACES.
3. SKATEPARK DRAIN LINES SHALL BE A MINIMUM OF 6" DIAMETER, AND HAVE A 1.5% MINIMUM FALL.
4. ALL CATCH BASINS AND DRAINS SHALL BE AS NOTED AND SET FLUSH WITH PROPOSED FINISH SURFACE OR PROPOSED FINISH GRADES, AND SHALL BE CLEANED OF ALL DEBRIS AT COMPLETION OF INSTALLATION.
5. DRAINLINE LAYOUT IS DIAGRAMMATIC.
6. CONTRACTOR SHALL CO-ORDINATE DRAINLINE LOCATIONS SO AS NOT TO CONFLICT WITH TREE INSTALLATIONS AND EXISTING SITE UTILITIES.
7. ALL PAVED AREAS SHALL SLOPE AWAY FROM BUILDINGS AND STRUCTURES WITH A 1% MINIMUM FALL. PLANTED AREAS SHALL HAVE A MINIMUM 2% FALL.
8. FINISH GRADE AT TURF AREAS SHALL BE ONE INCH BELOW FINISH SURFACE OF SIDEWALKS, CURBS, OR PAVED AREAS. AT PLANTING AREAS FINISH GRADE SHALL BE 2" BELOW SAME, (UNLESS SHOWN OTHERWISE).
9. FINISH GRADE SHALL HAVE A UNIFORM SURFACE, FREE FROM ALL DEPRESSIONS AND ALL OBJECTS THAT MAY BE A HINDRANCE TO CONSTRUCTION, PLANTING OR MAINTENANCE OPERATIONS.
10. ALL CONSTRUCTION AREAS SHALL BE FREE OF ROCK, DEBRIS, ETC. ALL EXISTING WEEDS SHALL BE REMOVED.
11. INSTALL ALL STEPS WITH A MINIMUM 1% WASH. CONTRACTOR MAY RAMP PAVING AWAY FROM TOP AND BOTTOM RISERS AS NECESSARY AT MAXIMUM 2%, MINIMUM 1% FALL.
12. DIRT AND DEBRIS TRACKED ONTO EXISTING STREETS SHALL BE REMOVED FROM STREETS ON DAILY BASIS AND AT COMPLETION OF CONSTRUCTION.

KEY

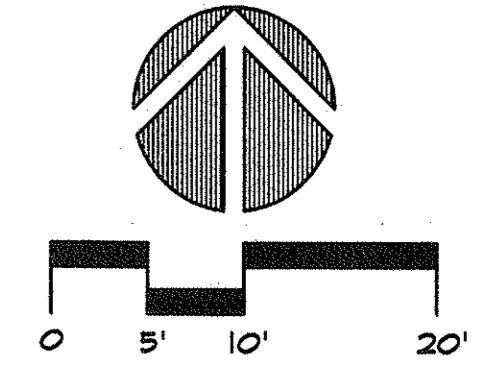
- TP - TOP OF POST
- FG - FINISH GRADE
- FS - FINISH SURFACE
- INV - INVERT ELEVATION
- BS - BOTTOM OF STEP
- TB - TOP OF BENCH
- TC - TOP OF CURB
- TG - TOP OF GRATE
- TS - TOP OF STEP
- TW - TOP OF WALL
- TR - TOP OF RAIL
- TF - TOP OF FENCE

- PROPOSED 6" ADS DRAINLINE. SEE PLAN.
- DIRECTION OF FLOW
- ⊗ 6" DRAIN W/ BRASS GRATE MANUFACTURED BY NDS MODEL #S 919B, 101, 801 PHONE #(800) 726-1994 OR APPROVED EQUAL.
- ⊕ SUMP PUMP IN VAULT (DUPEX PUMP) F.S. OF VAULT LID TO ALIGN FLUSH W/ ADJACENT PAVING. MANUFACTURED BY WESTERN PACIFIC PUMP SALES PHONE #(714) 964-1994.

THE ANTICIPATED GRADING QUANTITIES FOR THIS PROJECT ARE:
 57 CUBIC YARDS CUT
 143 CUBIC YARDS FILL

- BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES**
- ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEETFLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
 - STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
 - FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTINGS AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
 - EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISION SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
 - TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
 - SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRUCKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.

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 (714) 971-3688

REVISIONS

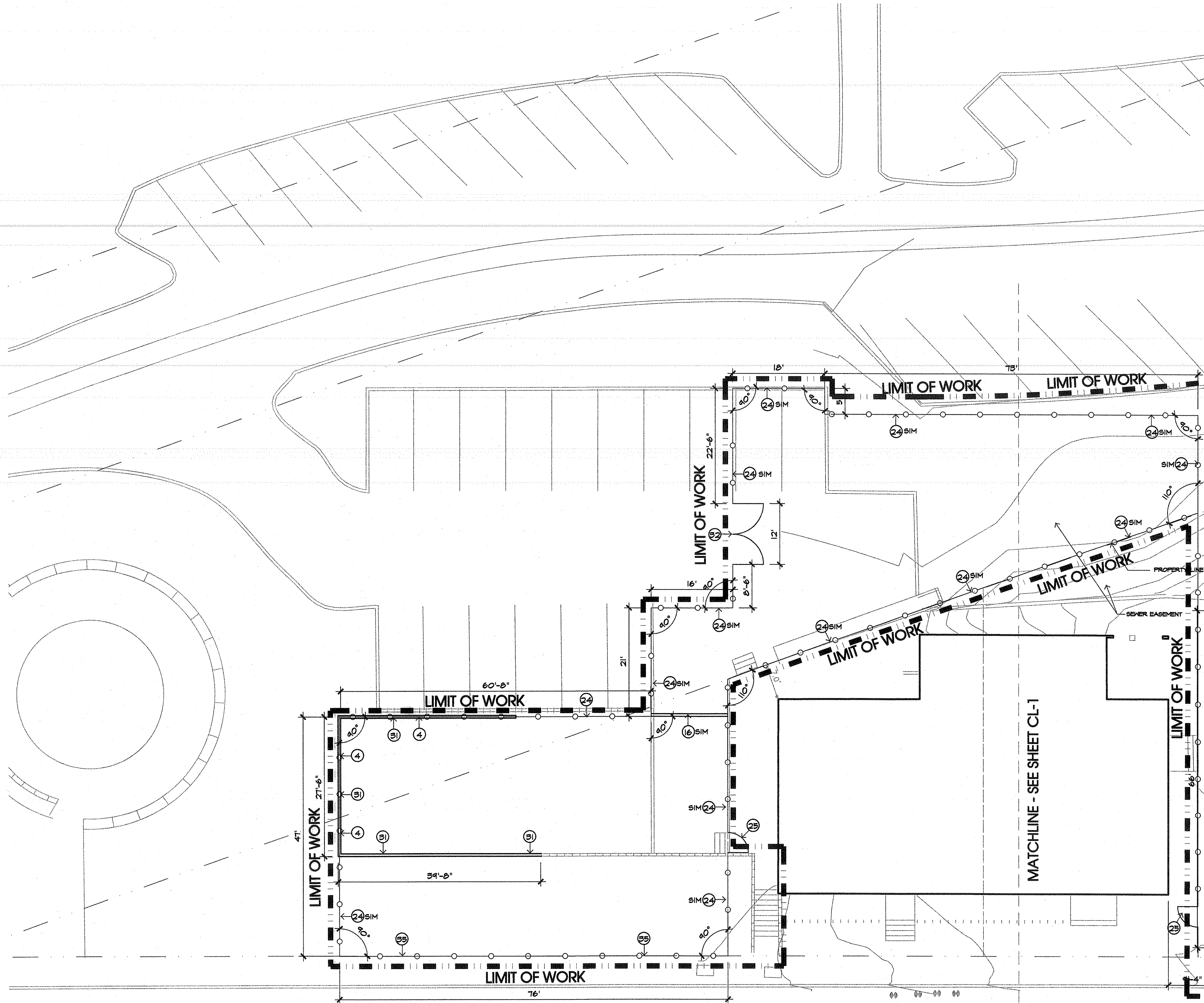
GRADING PLAN

SHEET TITLE

EL SEGUNDO SKATE PARK
 CITY OF EL SEGUNDO
 405 EAST GRAND AVE.
 EL SEGUNDO, CA 90245

SCALE:
1" = 10'-0"
 DATE:
01/08/04
 DRAWN BY:
RJE
 PROJECT NO:
01-197

SHEET NO.
G-2
 OF



CONSTRUCTION NOTES:

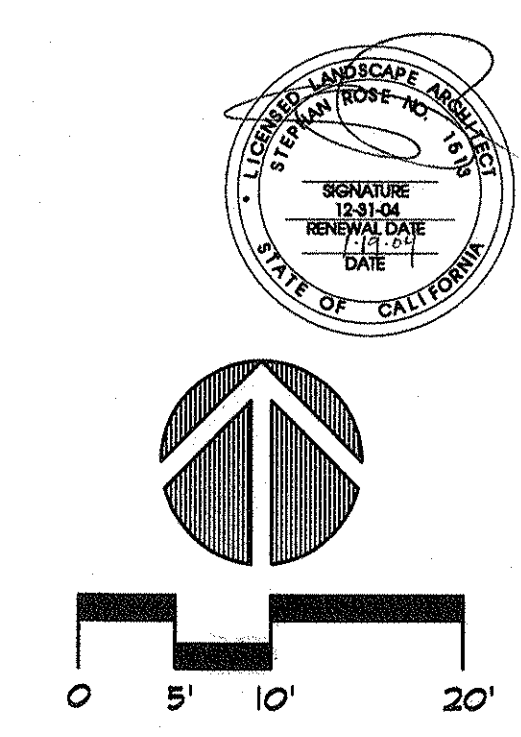
1. ALL FORMS AND ALIGNMENTS OF PAVING, LAYOUT, AND SPECIAL PAVING AREAS SHALL BE REVIEWED AND APPROVED BY THE CITY'S AUTHORIZED REPRESENTATIVE PRIOR TO POURING (GIVE A MINIMUM OF 48 HOURS NOTICE).
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION AND SHALL BE HELD LIABLE FOR ALL DAMAGES INCURRED.
3. CONTRACTOR SHALL NOTE AND INSTALL SLEEVE LOCATIONS SHOWN ON IRRIGATION PLANS IN EXCESS OF EXISTING SLEEVES PER CITY'S APPROVAL.
4. ALL CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS.
5. THESE NOTES SHALL BE USED IN CONJUNCTION WITH THE PLANS AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND CITY'S REPRESENTATIVE.
6. CONTRACTOR MUST CHECK ALL DIMENSIONS, FRAMING CONDITIONS AND SITE CONDITIONS BEFORE STARTING WORK. LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR POSSIBLE DEFICIENCIES.
7. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED SIMILAR TO THE DETAILS FOR THE RESPECTIVE MATERIALS.
8. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED WORK. ALL BRACING, TEMPORARY SUPPORTS, SHORING, MASONRY, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. OBSERVATION VISITS TO THE JOB SITE BY THE LANDSCAPE ARCHITECT DOES NOT INCLUDE INSPECTION OF CONSTRUCTION METHODS AND SAFETY CONDITIONS AT THE WORKSITE. THESE VISITS SHALL NOT BE CONSTRUED AS CONTINUOUS AND DETAILED INSPECTIONS.
9. CLEAN-UP SHALL TAKE PLACE ON A DAILY BASIS.
10. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL INFORMATION.

CONSTRUCTION LEGEND:

- ① CONCRETE PAVING - SEE DETAIL A SHEET DT-1
- ② PERIMETER FOOTING - SEE DETAIL B SHEET DT-1
- ③ TOE CONNECTION - SEE DETAIL C SHEET DT-1
- ④ CHAIN LINK GATE @ BLOCK RET. WALL - SEE DETAIL M SHEET DT-2
- ⑤ STEEL EDGING - SEE DETAIL D SHEET DT-1
- ⑥ STEEL COPING - SEE DETAIL F SHEET DT-1
- ⑦ BENCH WITH STEEL EDGING - SEE DETAIL E SHEET DT-1
- ⑧ BENCH WITH STEEL COPING - SEE DETAIL G SHEET DT-1
- ⑨ FLAT LEDGE - SEE DETAIL L SHEET DT-1
- ⑩ SLOPED LEDGE - SEE DETAIL M SHEET DT-1
- ⑪ PICNIC TABLE - SEE DETAIL N SHEET DT-1
- ⑫ SLOPED RAIL AT STEPS - SEE DETAIL O SHEET DT-1
- ⑬ CONCRETE STEPS W/ STEEL EDGING - SEE DETAIL H SHEET DT-1
- ⑭ FLAT RAMP - SEE DETAIL J SHEET DT-1
- ⑮ EURO BLOCKS REFER TO DETAIL P SHEET DT-1
- ⑯ CURB WALL - SEE DETAIL I SHEET DT-2
- ⑰ ADA RAMP - SEE DETAIL A DT-2
- ⑱ BLACK COATED VINYL C.L.F. @ RETAINING WALL - SEE DETAIL B SHEET DT-2
- ⑲ NOT USED
- ⑳ PIER T LEDGE - SEE DETAIL K SHEET DT-1
- ㉑ TRANSITION RAMP - SEE DETAIL I SHEET DT-1
- ㉒ GUARDIAN SAFTY BARRIER - ROADTECH MFG, INC. (800)-880-3075
- ㉓ HANDRAIL @ ADA RAMP - SEE DETAIL C SHEET DT-2
- ㉔ BLACK COATED VINYL CHAIN LINK FENCE @ CURB - SEE DETAIL D SHEET DT-2
- ㉕ GATE - SEE DETAIL F SHEET DT-2
- ㉖ HANDRAIL @ STEPS - SEE DETAIL G SHEET DT-2
- ㉗ STEPS - SEE DETAIL H SHEET S-4
- ㉘ THICKENED EDGE - SEE DETAIL I SHEET S-5
- ㉙ SUMP PUMP - SEE DETAIL J SHEET DT-2
- ㉚ ADDRESS SIGN - SEE DETAIL K SHEET DT-2 ATTACH TO C.L. FENCE FINAL LOCATION TO BE DETERMINED BY CITY REPRESENTATIVE
- ㉛ RETAINING WALL - REFER TO DETAIL M, SHEET DT-2
- ㉜ ENTRY GATE - REFER TO DETAIL L, SHEET DT-2
- ㉝ NEW SIDEWALK PER CITY STANDARDS - MEET AND MATCH EXISTING
- ㉞ NEW CURB & GUTTER PER CITY STANDARDS - MEET AND MATCH EXISTING T.O.C & FLOW LINES
- ㉟ ORNAMENTAL FENCE - SEE DETAIL J SHEET DT-3

ABBREVIATIONS

- E.J. - EXPANSION JOINT
- SC - SAW CUT
- C.J. - COLD JOINT
- EXIST. - EXISTING
- BLDG. - BUILDING
- F.S. - FINISH GRADE
- CONC. - CONCRETE
- R - RADIUS
- TYP. - TYPICAL
- F.S. - FINISH SURFACE
- P. - PROPERTY LINE
- MFG. - MANUFACTURE'S
- C.L. - CHAIN LINK



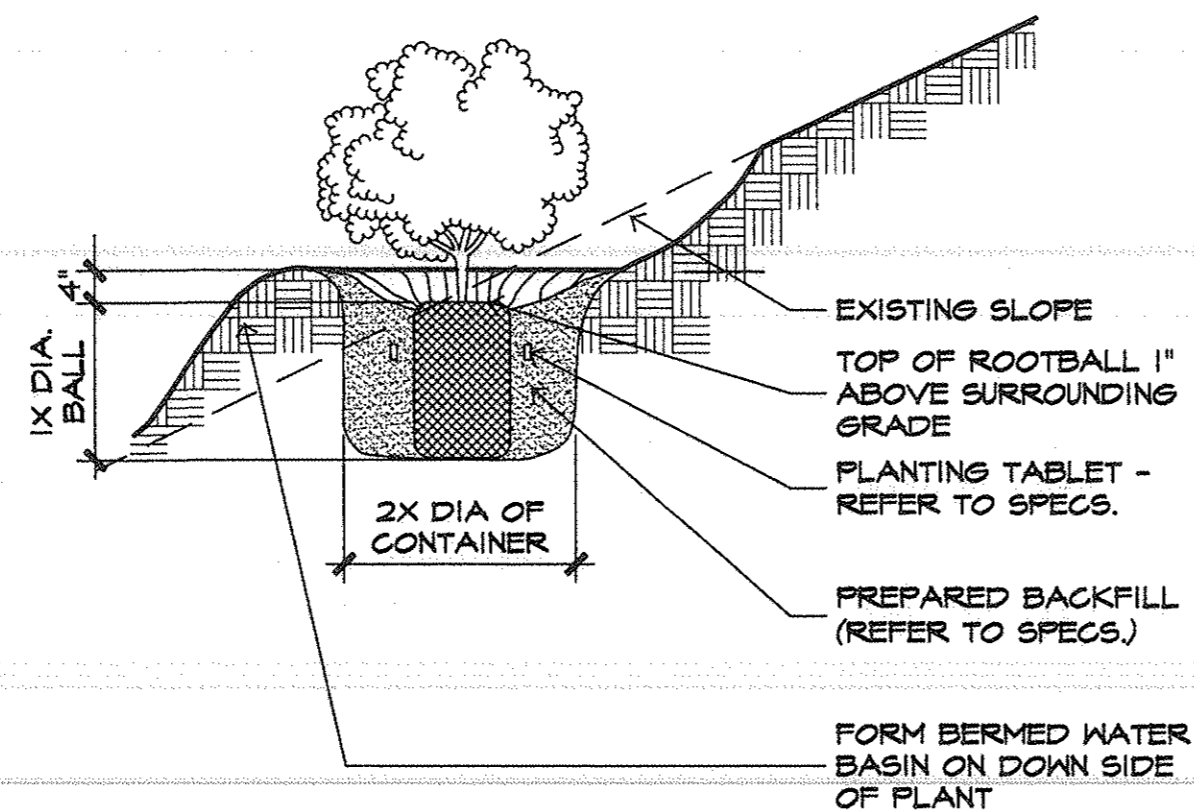
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 981 North Harbor Boulevard
 Fullerton, CA 92632
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 (714) 970-5638

REVISIONS

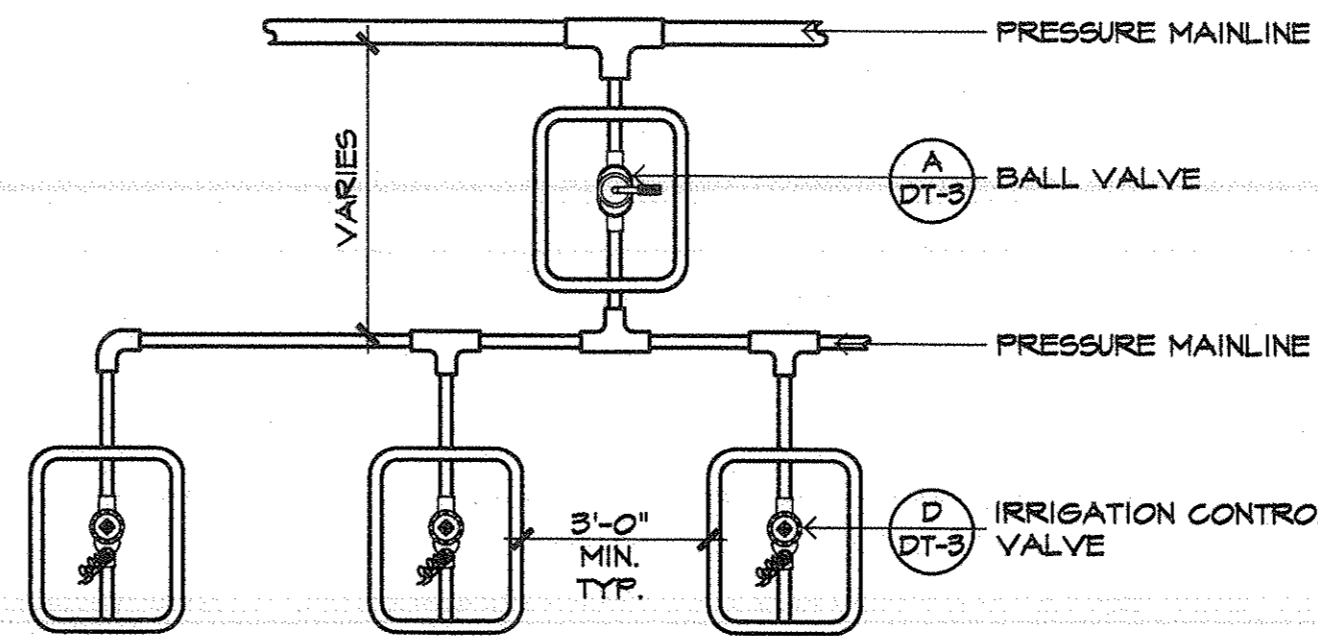
CONSTRUCTION LAYOUT PLAN

EL SEGUNDO SKATE PARK
 CITY OF EL SEGUNDO
 405 EAST GRAND AVE.
 EL SEGUNDO, CA 90245

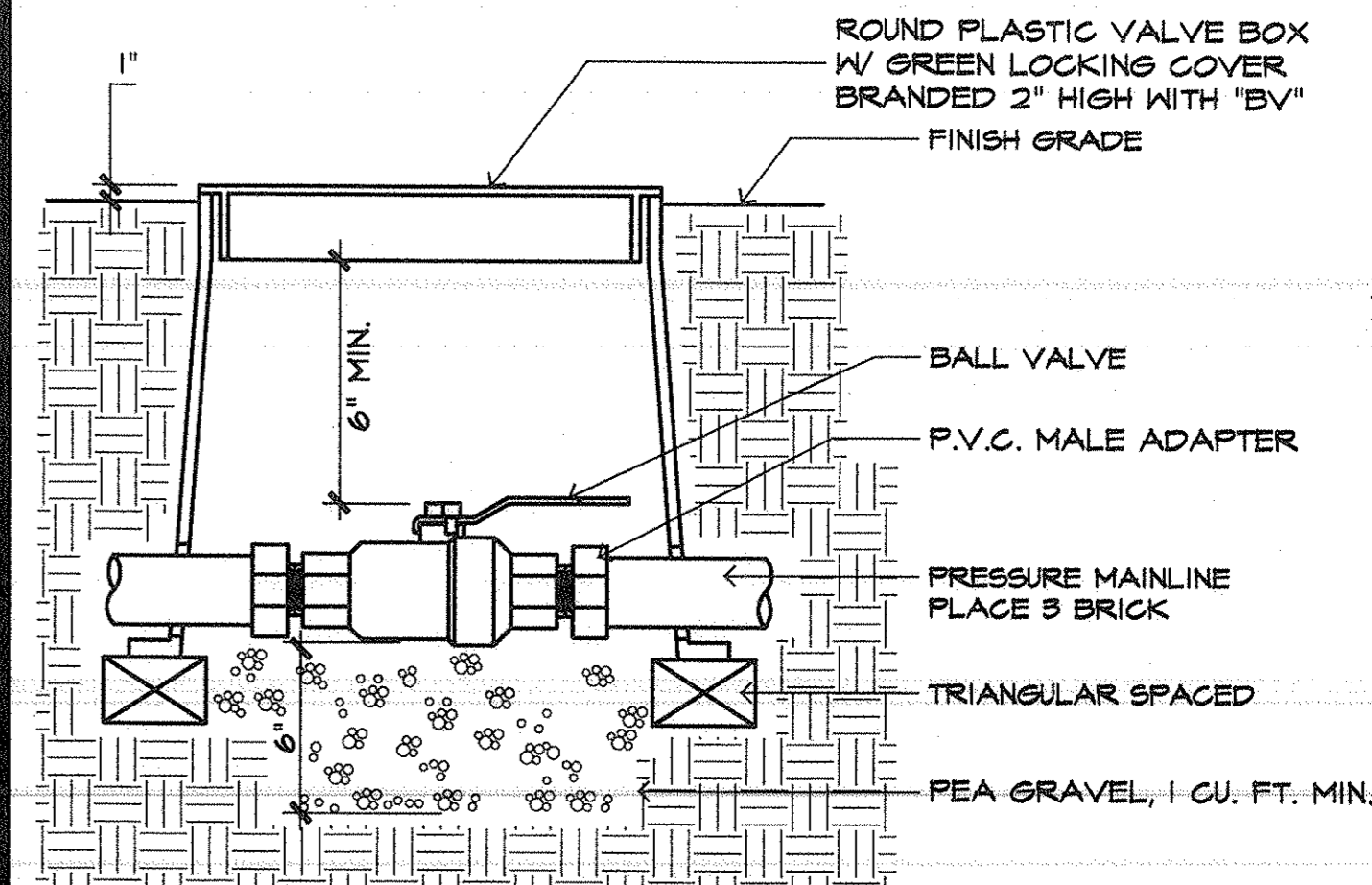
SHEET NO.
CL-2
 OF



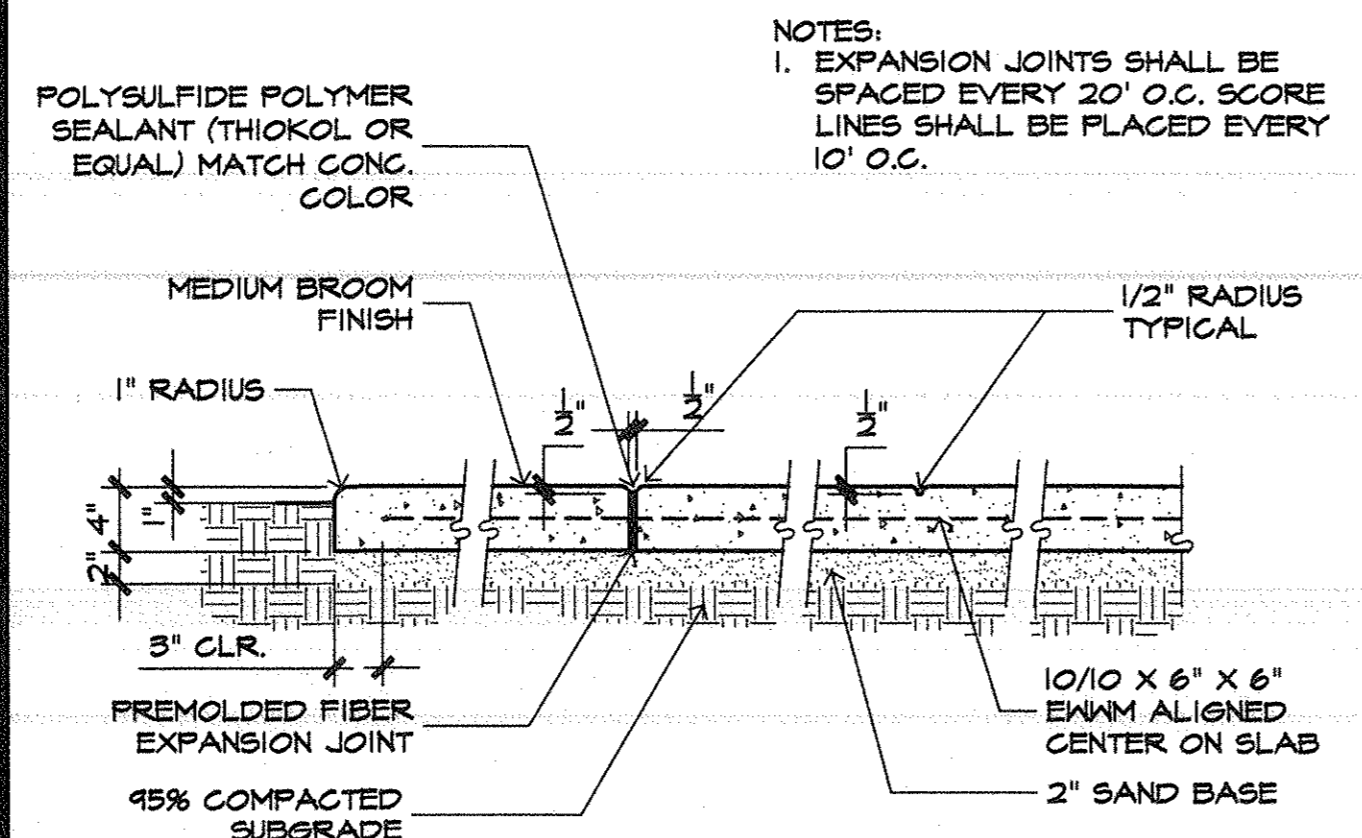
H SHRUB PLANTING ON SLOPE NO SCALE



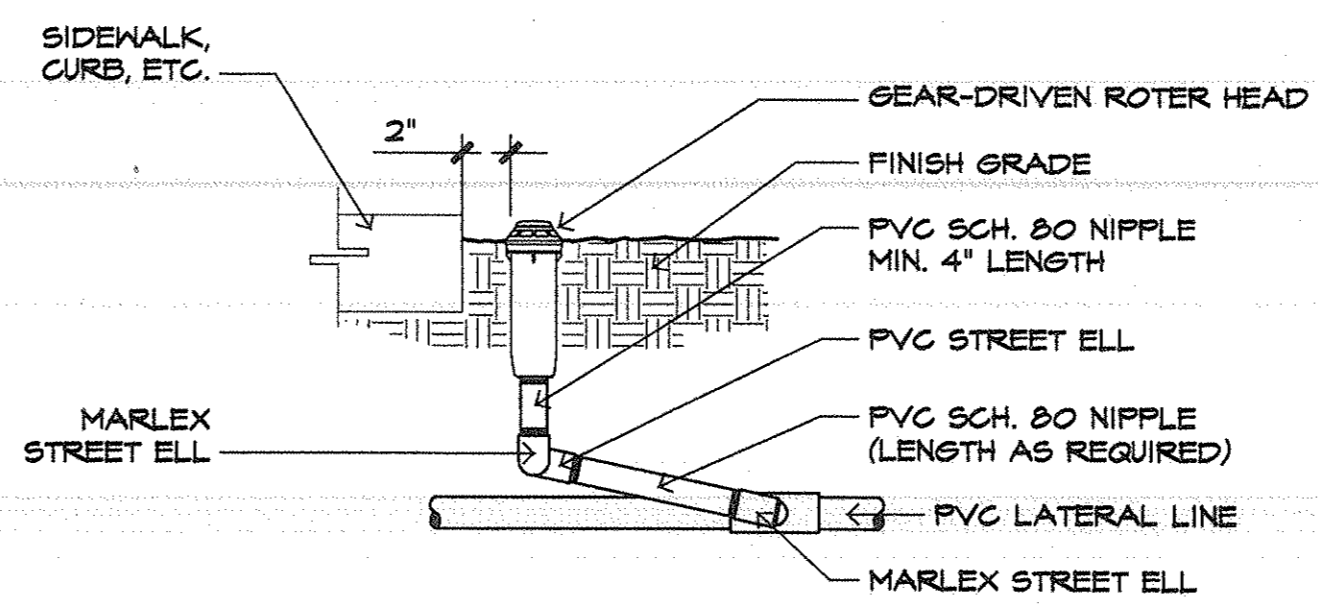
E VALVE MANIFOLD NO SCALE



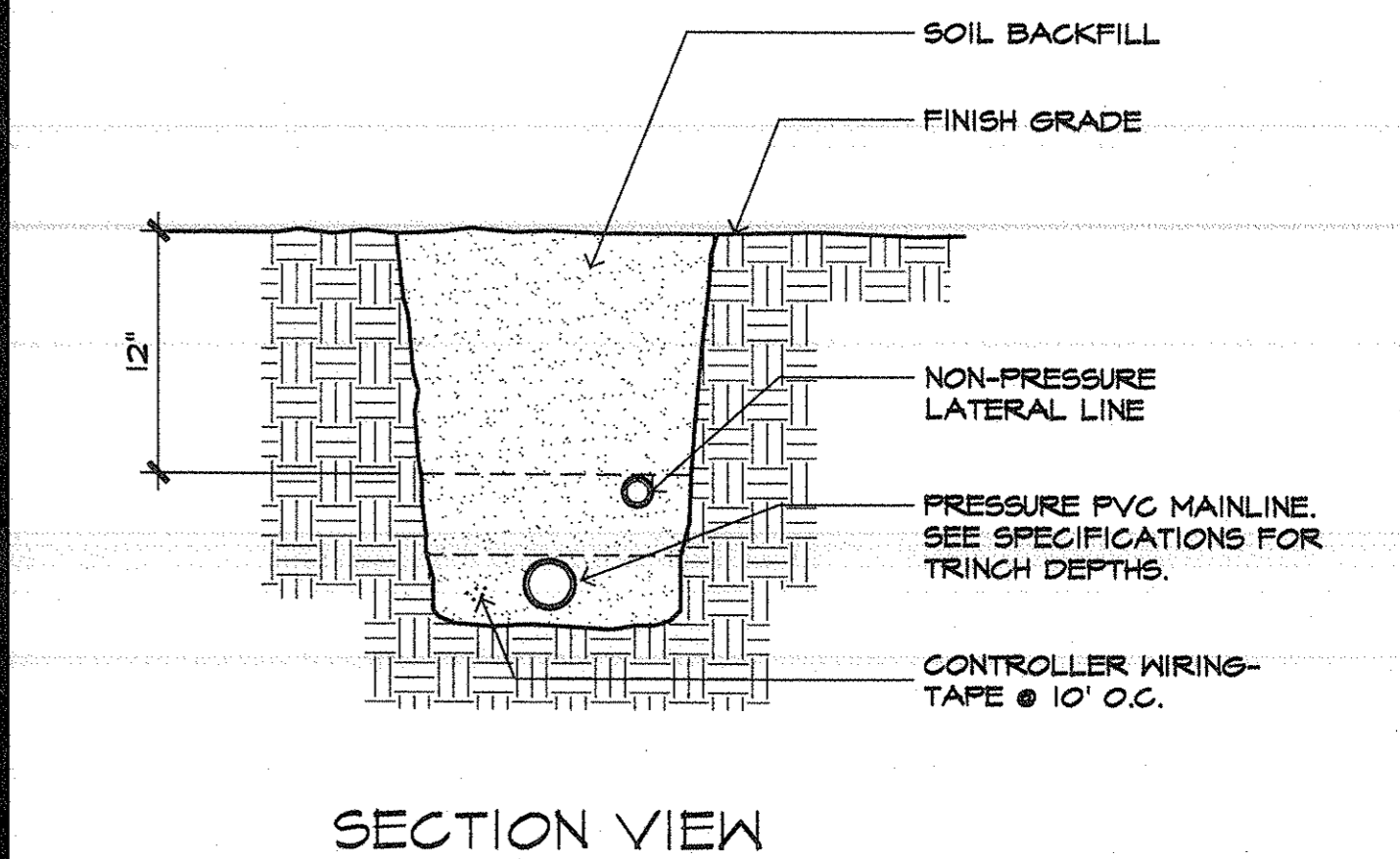
A BALL VALVE NO SCALE



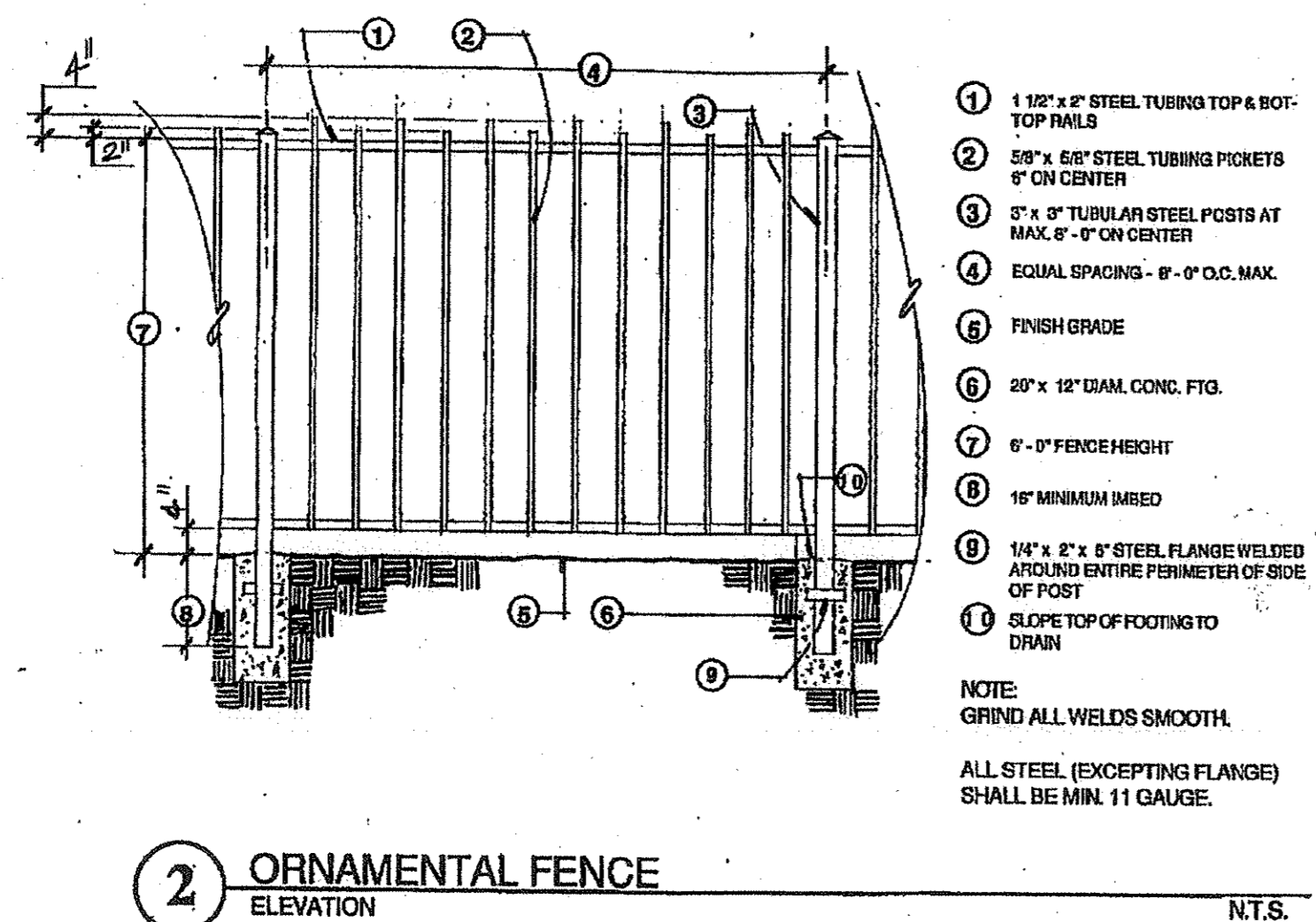
I CONC. PAVING W/ MESH NO SCALE



F ROTOR HEAD NO SCALE

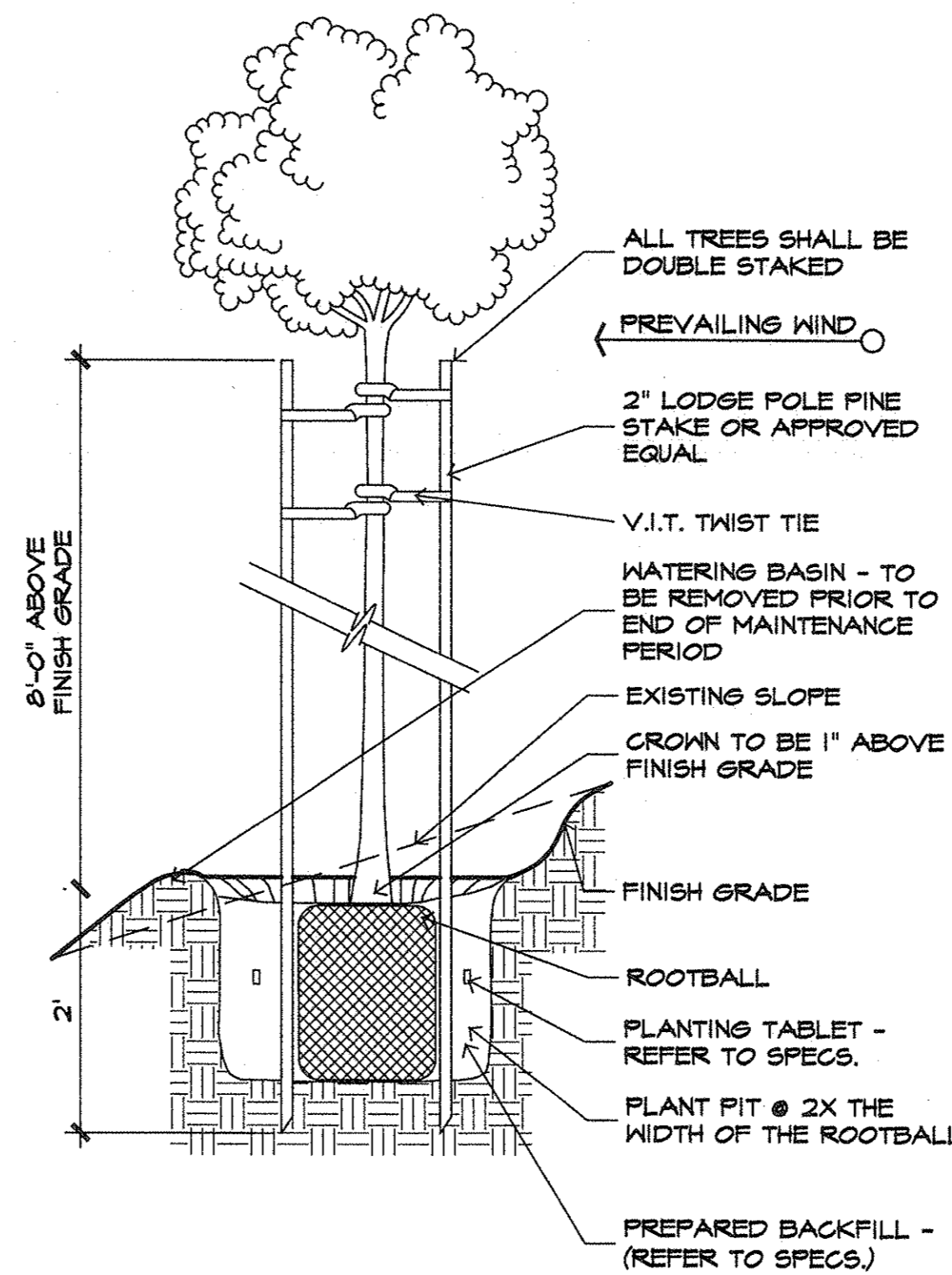


B TRENCHING DETAIL NO SCALE

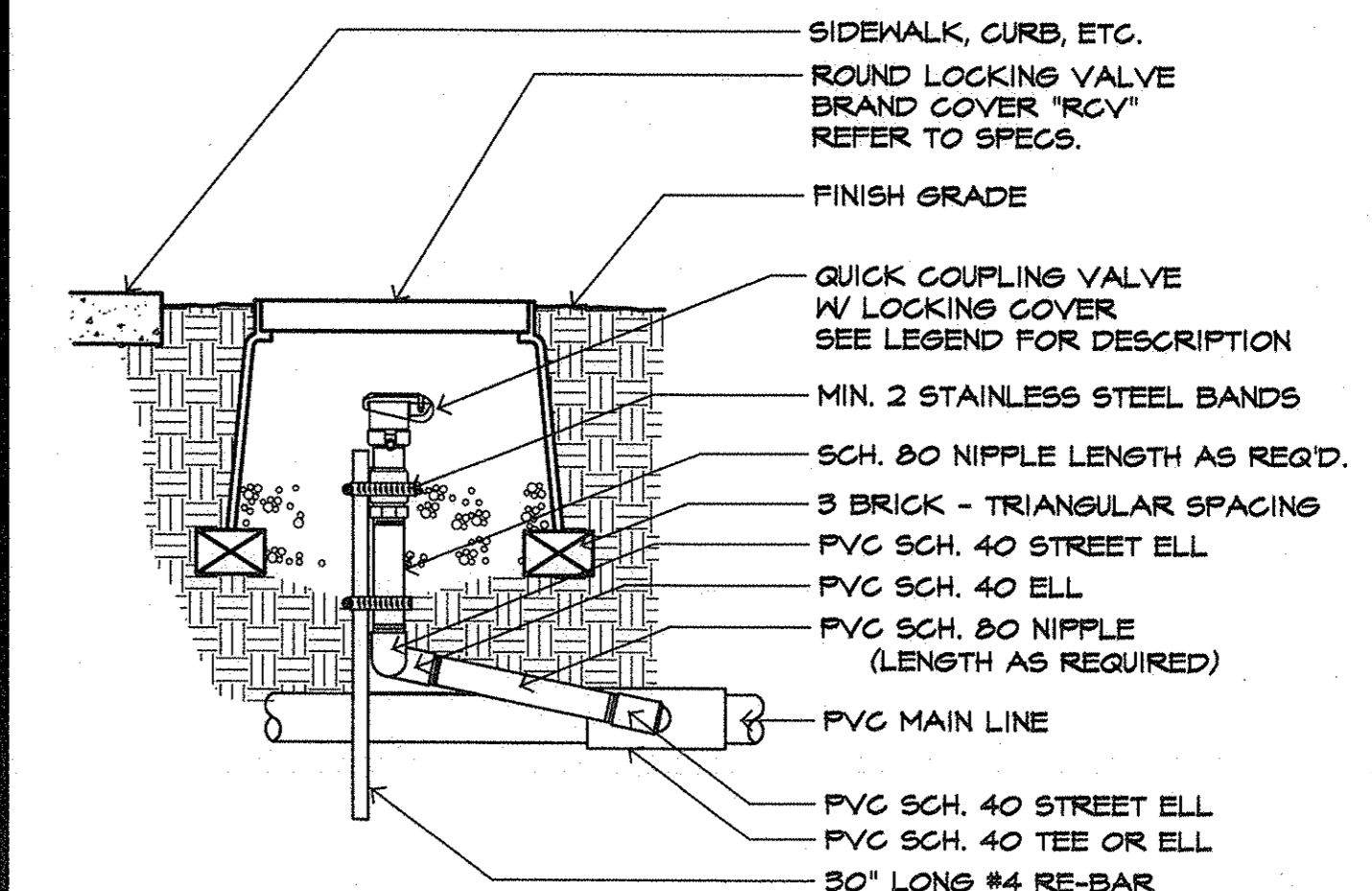


J ORNAMENTAL FENCE NO SCALE

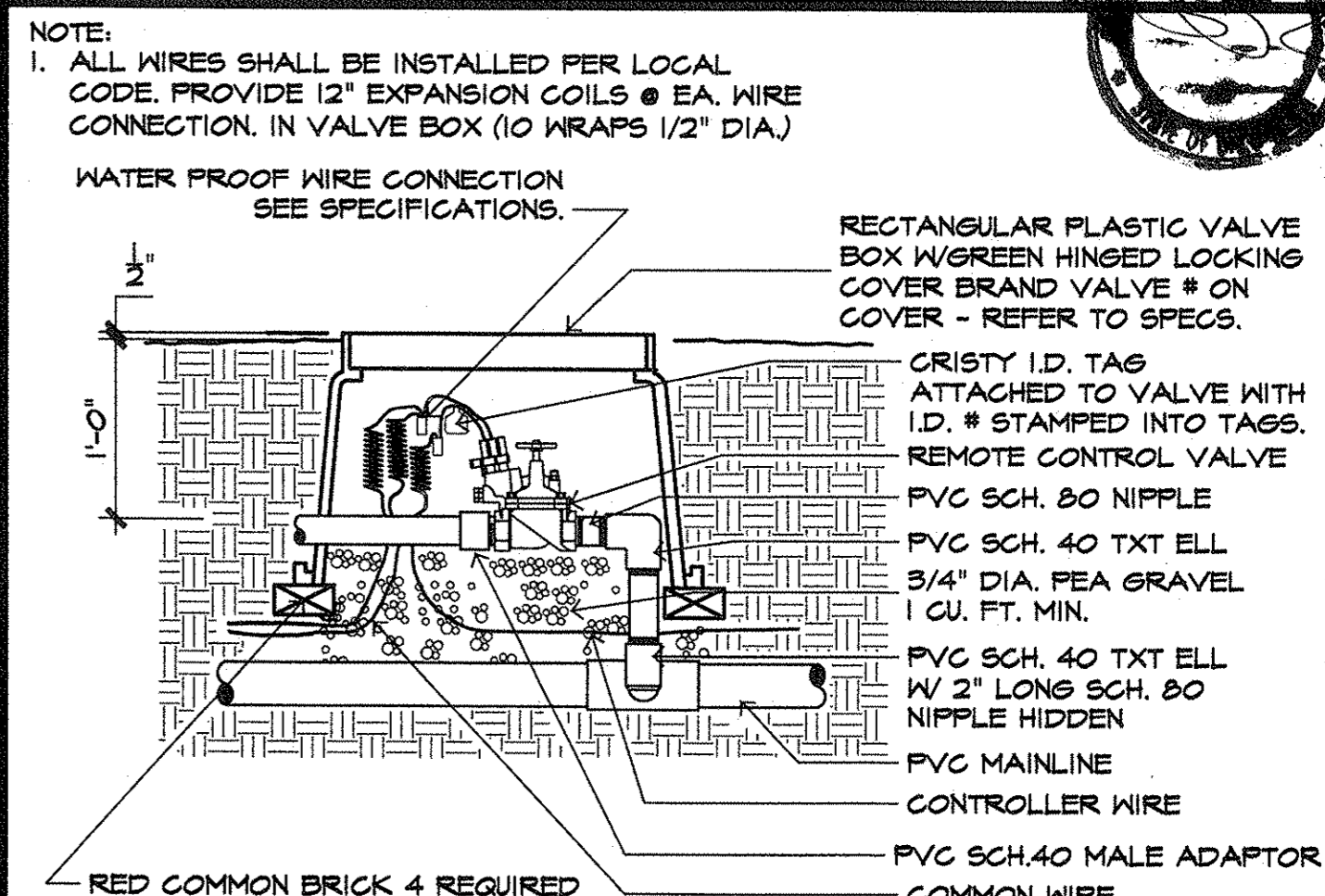
NOTE:
STAKES SHALL BE PLACED SO THAT PREVAILING WINDS MOVE TREE BETWEEN STAKES



G TREE PLANTING ON SLOPE NO SCALE



C QUICK COUPLING VALVE



D REMOTE CONTROL VALVE NO SCALE

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Fullerton, California 92832
P: 714/971-1188
F: 714/971-5688

REVISIONS

PLANTING, IRRIGATION, & CONSTRUCTION DETAILS

SHEET TITLE

EL SEGUNDO SKATE PARK
CITY OF EL SEGUNDO
405 E. GRAND AVE.
EL SEGUNDO, CA. 90245

CLIENT

SCALE: NTS

DATE: 01/08/04

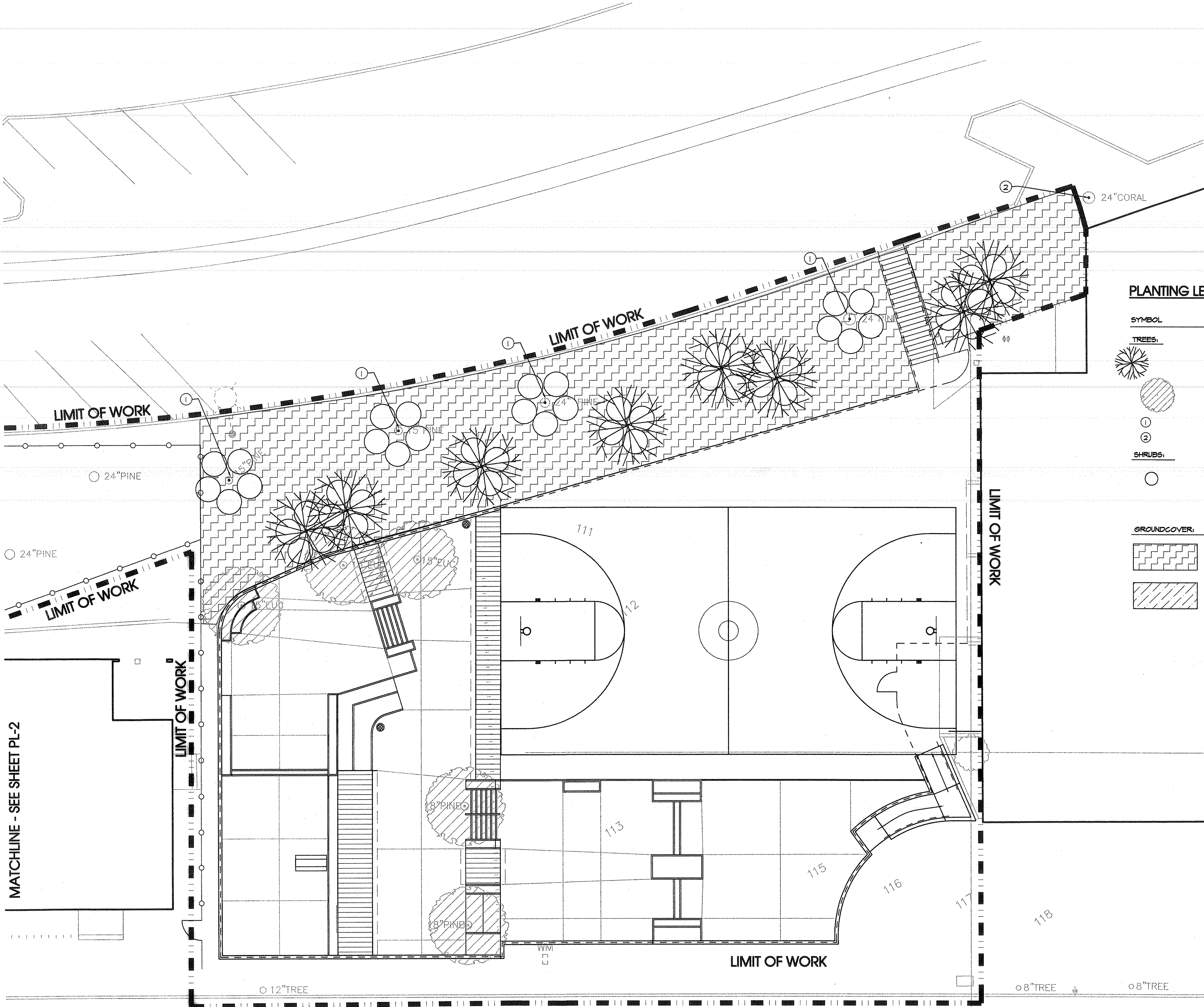
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PROJECT NO: 01-197

SHEET NO.

DT-3

OF



PLANTING NOTES:

1. CONTRACTOR SHALL NOTIFY THE AGENCY OF SITE CONDITIONS WHICH PREVENT INSTALLATION PER PLANS AND SPECIFICATIONS.
2. CONTRACTOR SHALL BE LIABLE FOR REMOVING AND REINSTALLING IRRIGATION EQUIPMENT, AND REPLANTING AREAS WHICH ARE NOT INSTALLED PER PLAN AND SPECIFICATIONS.
3. IRRIGATION SYSTEM SHALL BE INSTALLED PRIOR TO PLANT MATERIALS.
4. TREES AND SHRUBS SHALL BE PLANTED AFTER CONCRETE PLACEMENT, BUT NOT BEFORE IRRIGATION COVERAGE TEST HAS BEEN APPROVED. (SEE SPECIFICATIONS).
5. PLACE TREES BETWEEN IRRIGATION HEADS WHEREVER POSSIBLE.
6. SHREDDED MULCH INSTALLATION: INSTALL SHREDDED MULCH IN ALL SHRUB AND GROUND COVER AREAS AT A DEPTH OF 2" UNLESS OTHERWISE INDICATED PLANS.
7. CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS AND/OR REPLACEMENT OF ANY DAMAGED LANDSCAPE AREAS BEYOND THE LIMIT OF WORK, THAT IS A DIRECT RESULT OF THE LANDSCAPE CONSTRUCTION AND/OR HIS SUB-CONTRACTOR. REPLACEMENT ITEMS SHALL BE EXACT DUPLICATE OF ORIGINAL WORK ON PLANS, UNLESS OTHERWISE APPROVED BY THE AGENCY AUTHORIZED REPRESENTATIVE.
8. CLEANUP SHALL TAKE PLACE ON A DAILY BASIS UNLESS OTHERWISE APPROVED BY THE AGENCY'S REPRESENTATIVE.
9. THE PLANTING PLANS ARE ONLY ACCURATE FOR PLANTING LOCATION AND QUANTITIES. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES BY PLAN CHECK. THE PLANTING LEGEND IS ACCURATE ONLY FOR PLANT SIZE.

PLANTING LEGEND:

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
TREES:				
	BETULA PENDULA	EUROPEAN WHITE BIRCH	15 GAL	PER PLAN
	EXISTING TREE TO BE REMOVED			
	EXISTING PINE TREE TO REMAIN			
	EXISTING CORAL TREE TO REMAIN			
SHRUBS:				
	JUNIPERUS HORIZONTALIS 'YOUNGSTOWN'	'YOUNGSTOWN ANDORRA JUNIPER'	5 GAL.	PER PLAN
GROUND COVER:				
	MYOPORUM PARVIFOLIUM		5 GAL.	
	EXISTING LANDSCAPE TO BE REMOVED			

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 714/997-5888

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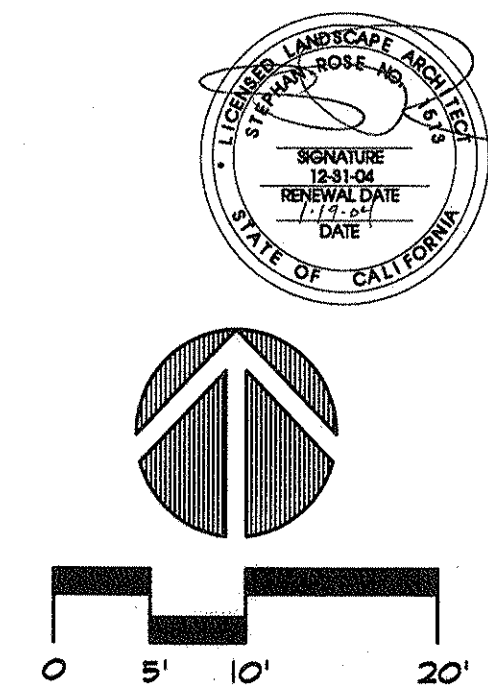
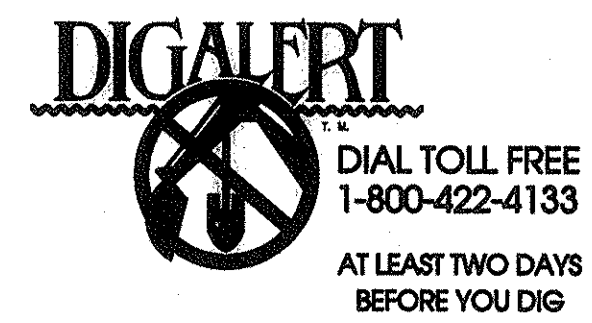
PLANTING PLAN

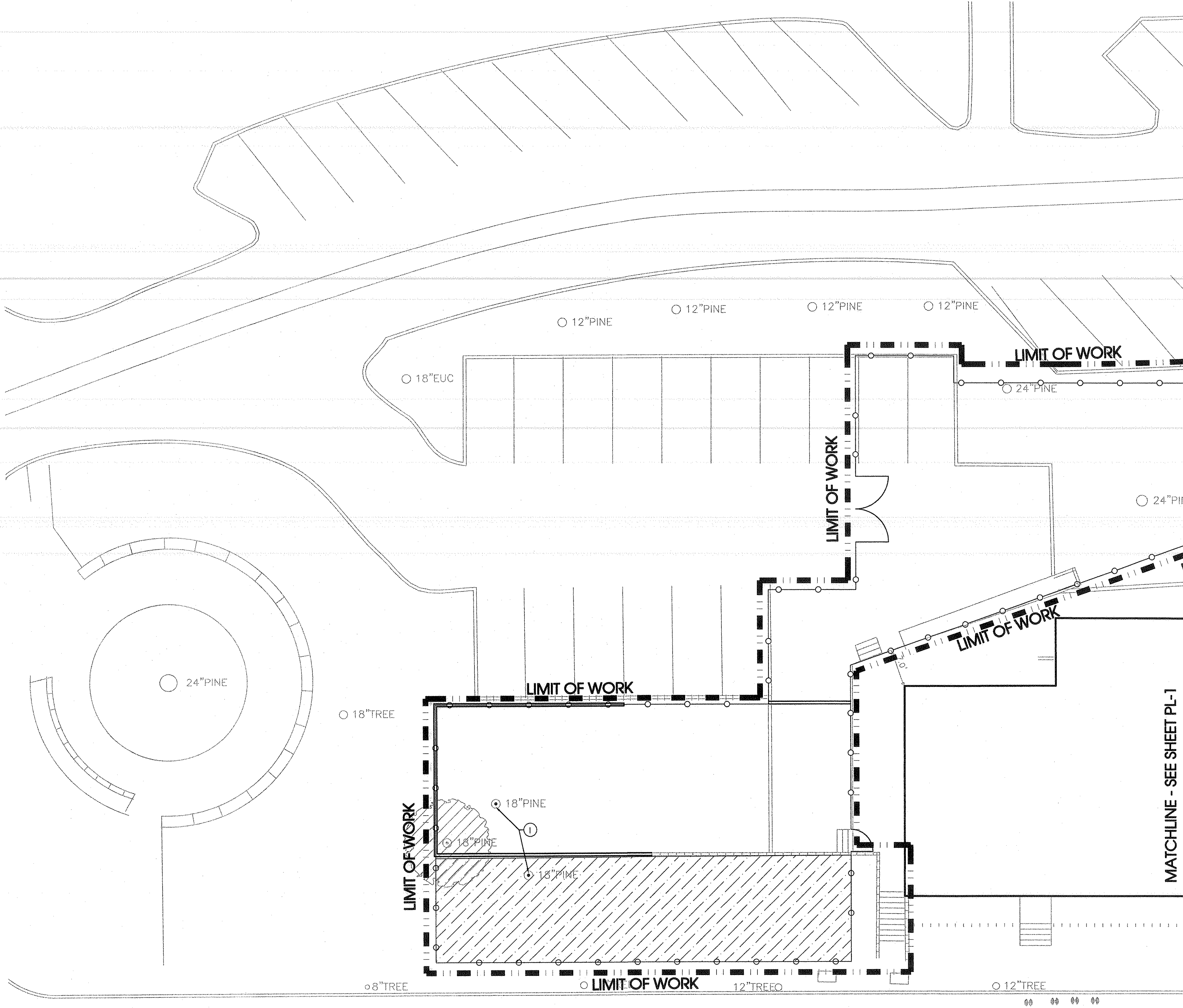
MATCHLINE - SEE SHEET PL-2

CLIENT
EL SEGUNDO SKATE PARK
 CITY OF EL SEGUNDO
 405 EAST GRAND AVE.
 EL SEGUNDO, CA 90245

SCALE:
1" = 10'-0"
 DATE:
01/08/04
 DRAWN BY:
T.V.
 PROJECT NO:
01-197

SHEET NO.
PL-1
 OF 13





PLANTING NOTES:

1. CONTRACTOR SHALL NOTIFY THE AGENCY OF SITE CONDITIONS WHICH PREVENT INSTALLATION PER PLANS AND SPECIFICATIONS.
2. CONTRACTOR SHALL BE LIABLE FOR REMOVING AND REINSTALLING IRRIGATION EQUIPMENT AND REPLANTING AREAS WHICH ARE NOT INSTALLED PER PLAN AND SPECIFICATIONS.
3. IRRIGATION SYSTEM SHALL BE INSTALLED PRIOR TO PLANT MATERIALS.
4. TREES AND SHRUBS SHALL BE PLANTED AFTER CONCRETE PLACEMENT, BUT NOT BEFORE IRRIGATION COVERAGE TEST HAS BEEN APPROVED. (SEE SPECIFICATIONS).
5. PLACE TREES BETWEEN IRRIGATION HEADS WHEREVER POSSIBLE.
6. SHREDDED MULCH INSTALLATION: INSTALL SHREDDED MULCH IN ALL SHRUB AND GROUNDCOVER AREAS AT A DEPTH OF 2" UNLESS OTHERWISE INDICATED PLANS.
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PLANTING LEGEND:

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
TREES:				
	BETULA PENDULA	EUROPEAN WHITE BIRCH	15 GAL	PER PLAN
	EXISTING TREE TO BE REMOVED			
	EXISTING PINE TREE TO REMAIN			
	EXISTING CORAL TREE TO REMAIN			
SHRUBS:				
	JUNIPERUS HORIZONTALIS 'YOUNGSTOWN'	YOUNGSTOWN ANDORRA JUNIPER'	5 GAL.	PER PLAN
GROUNDCOVER:				
	MYOPORUM PARVIFOLIUM		5 GAL	
	EXISTING LANDSCAPE TO BE REMOVED			

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 Recreation and Park Planning
 801 North Harbor Boulevard
 Fullerton, California 92822
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 714/971-0888

REVISIONS

PLANTING PLAN

CLIENT
EL SEGUNDO SKATE PARK
 CITY OF EL SEGUNDO
 405 EAST GRAND AVE.
 EL SEGUNDO, CA 90245

SCALE:
1" = 10'-0"
 DATE:
01/08/04
 DRAWN BY:
RJE
 PROJECT NO:
01-197

SHEET NO.
PL-2
 OF

DIG ALERT

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 BEFORE YOU DIG

EL SEGUNDO AVENUE

PACIFIC ELECTRIC RIGHT OF WAY
LOT "D"

ARENA STREET (VACATED)

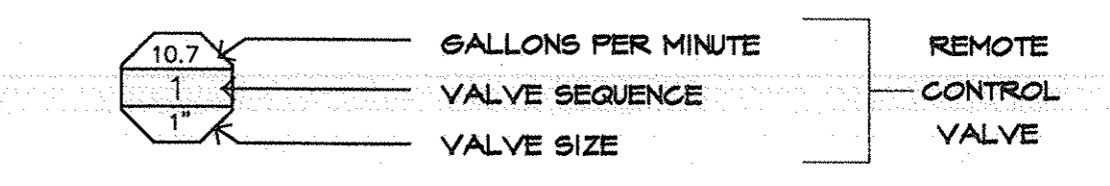
IRRIGATION LEGEND:

SYMBOL	MANUF.	MODEL	DEGREES	TYPE	GPM	PSI	RAD
(30)	RAINBIRD	5000-MPR-30-H-SAM	180	ROTOR	2.96	40	30'
(30)	RAINBIRD	5000-MPR-30-Q-SAM	90	ROTOR	1.40	40	30'
(25)	RAINBIRD	5000-MPR-25-H-SAM	180	ROTOR	1.98	40	25'
(25)	RAINBIRD	5000-MPR-25-Q-SAM	90	ROTOR	1.00	40	25'

*NOTE:
ADJUST ROTORS TO KEEP WATER OFF WALK, CONCRETE, ETC.

SYMBOL	MANUF.	MODEL	DESCRIPTION
(Symbol)	RAINBIRD	GB SERIES	BRASS REMOTE CONTROL VALVE
(Symbol)	NIBCO	T-580-70	BRONZE BALL VALVE (SIZE PER MAINLINE LINE SIZE)
(Symbol)	RAINBIRD	#44LRC	1" QUICK COUPLER VALVE WITH YELLOW RUBBER LOCK COVER
(Symbol)	EXISTING		REMOTE CONTROL VALVE TO BE REMOVED
(Symbol)	EXISTING		1" QUICK COUPLER VALVE

SYMBOL	PIPE TYPE	DESCRIPTION
(Symbol)	P.V.C. SCH 40 IPS PLASTIC PIPE	NON-PRESSURE LATERAL LINE WITH MINIMUM SIZE OF 3/4" & SCH. 40 FITTINGS. THREADED FITTINGS SHALL BE SCH. 40 (SIZE PER PLAN)
(Symbol)	P.V.C. SCH 40 IPS PLASTIC PIPE	SLEEVE FOR NON-PRESSURE LATERAL LINE (TWO X THE DIA. OF PIPE)
(Symbol)	P.V.C. SCH 40 IPS PLASTIC PIPE	PRESSURE MAINLINE 1/2" AND SMALLER. THREADED FITTINGS SHALL BE SCH. 80 (SIZE PER PLAN)
(Symbol)	P.V.C. SCH 40 IPS PLASTIC PIPE	SLEEVE FOR PRESSURE MAINLINE (TWO X THE DIA. OF PIPE)
(Symbol)	P.V.C. SCH 40 IPS PLASTIC PIPE	CONTROLLER WIRE CONDUIT - SIZE AS NOTED



IRRIGATION NOTES:

1. THE IRRIGATION PLAN IS DIAGRAMMATIC. ALL PIPE, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR PLAN CLARIFICATION ONLY AND SHALL BE INSTALLED WITHIN PLANTING AREAS WHEREVER POSSIBLE.
2. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES EXIST AND SHOULD BE BROUGHT TO THE ATTENTION OF THE CITY'S REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR REVISIONS NECESSARY.
3. SYSTEM DESIGN IS BASED ON MINIMUM OPERATING PRESSURE SHOWN AT EACH POINT OF CONNECTION WITH MAXIMUM GPM DEMAND SPECIFIED. THE IRRIGATION CONTRACTOR SHALL VERIFY ALL PRESSURES ON SITE PRIOR TO CONSTRUCTION. NOTIFY THE CITY'S REPRESENTATIVE OF ANY DISCREPANCIES.
4. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, SLOPES, LOCATION OF WALLS, RETAINING WALLS, CURBS, ETC. HE SHALL COORDINATE ALL HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION OF PIPE SLEEVES THROUGH WALLS AND FOOTINGS, UNDER ROADS, PAVING AND STRUCTURES.
5. IN ADDITION TO THE SLEEVES SHOWN ON THE PLAN, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ADDITIONAL SLEEVES OF SUFFICIENT SIZE UNDER THE ALL PAVED AREAS PRIOR TO PAVING UPON DIRECTION AND APPROVAL OF THE CITY'S REPRESENTATIVE, IF REQUIRED TO OPERATE SYSTEMS.
6. IRRIGATION CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR MAXIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, STREETS, AND BUILDINGS. THIS SHALL INCLUDE SELECTING THE BEST NOZZLE RADIUS TO FIT UNUSUAL SITE CONDITIONS AT NO EXTRA COST TO THE CITY. CALL THE LANDSCAPE ARCHITECT 48 HOURS IN ADVANCE FOR ANY COVERAGE TESTS.
7. IRRIGATION CONTRACTOR SHALL ADJUST MAINLINE DEPTH AS REQUIRED TO ACCOMMODATE 3" MIN. CLEARANCE FROM TOP OF QUICK COUPLER VALVE, GATE VALVE, AND REMOTE CONTROL VALVE TO BOTTOM OF VALVE BOX LID.
8. IRRIGATION CONTRACTOR SHALL INSTALL THE SPRINKLERS PERPENDICULAR TO SLOPE.
9. IRRIGATION CONTRACTOR SHALL MEET WITH CITY OF EL SEGUNDO'S MAINTENANCE SUPERVISOR, MR. MARK TRUJILLO PRIOR TO CONSTRUCTION. MR. TRUJILLO'S PHONE NUMBER IS 310-673-2875.
10. IRRIGATION CONTRACTOR SHALL REMOVE EXISTING CONTROL VALVE, AND SPRINKLER HEADS AT TOE OF SLOPE IN AREAS TO BE RELANDSCAPED. ALL EQUIPMENT TO BE TURNED OVER TO THE CITY OF EL SEGUNDO'S MAINTENANCE SUPERVISOR MR. MARK TRUJILLO.

IRRIGATION CONTRACTOR SHALL CONNECT STATION 21 TO EXISTING REMOTE CONTROL VALVE WIRE. CONTROL VALVE TO BE REMOVED. STATION 22 SHALL BE CONNECTED TO EXISTING CONTROLLER-IN-MAINTENANCE BUILDING APPROXIMATELY 250 FT FROM CONTROL VALVE.

APPROXIMATE LOCATION OF EXISTING IRRIGATION WIRE SLEEVE

POINT OF CONNECTION: IRRIGATION CONTRACTOR SHALL CONNECT TO EXISTING QUICK COUPLING VALVE 1-1/4" SUPPLY LINE. IRRIGATION DEMAND IS A MAXIMUM OF 21 GPM WITH A MINIMUM STATIC PRESSURE OF 16 PSI.

LIMIT OF WORK

LIMIT OF WORK

LIMIT OF WORK

LIMIT OF WORK

LIMIT OF WORK

MATCHLINE - SEE SHEET IR-2

purkis-rose - rsi
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Recreation and Park Planning
801 North Harbor Boulevard
Fullerton, California 92822
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REVISIONS

NO.	DATE	DESCRIPTION

IRRIGATION PLAN

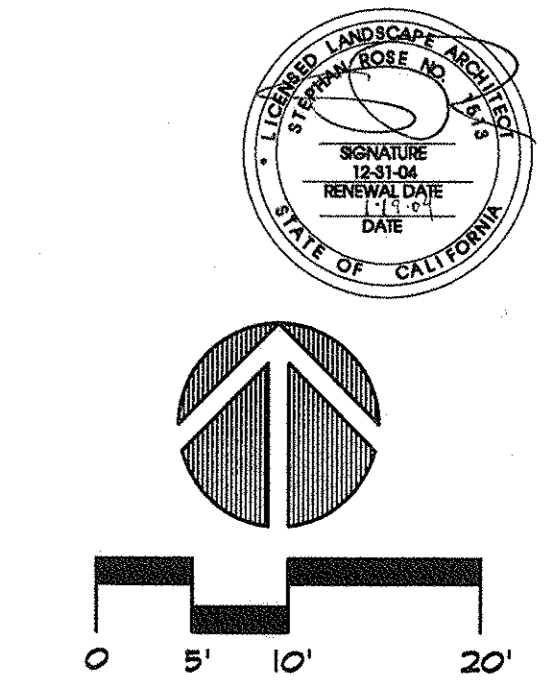
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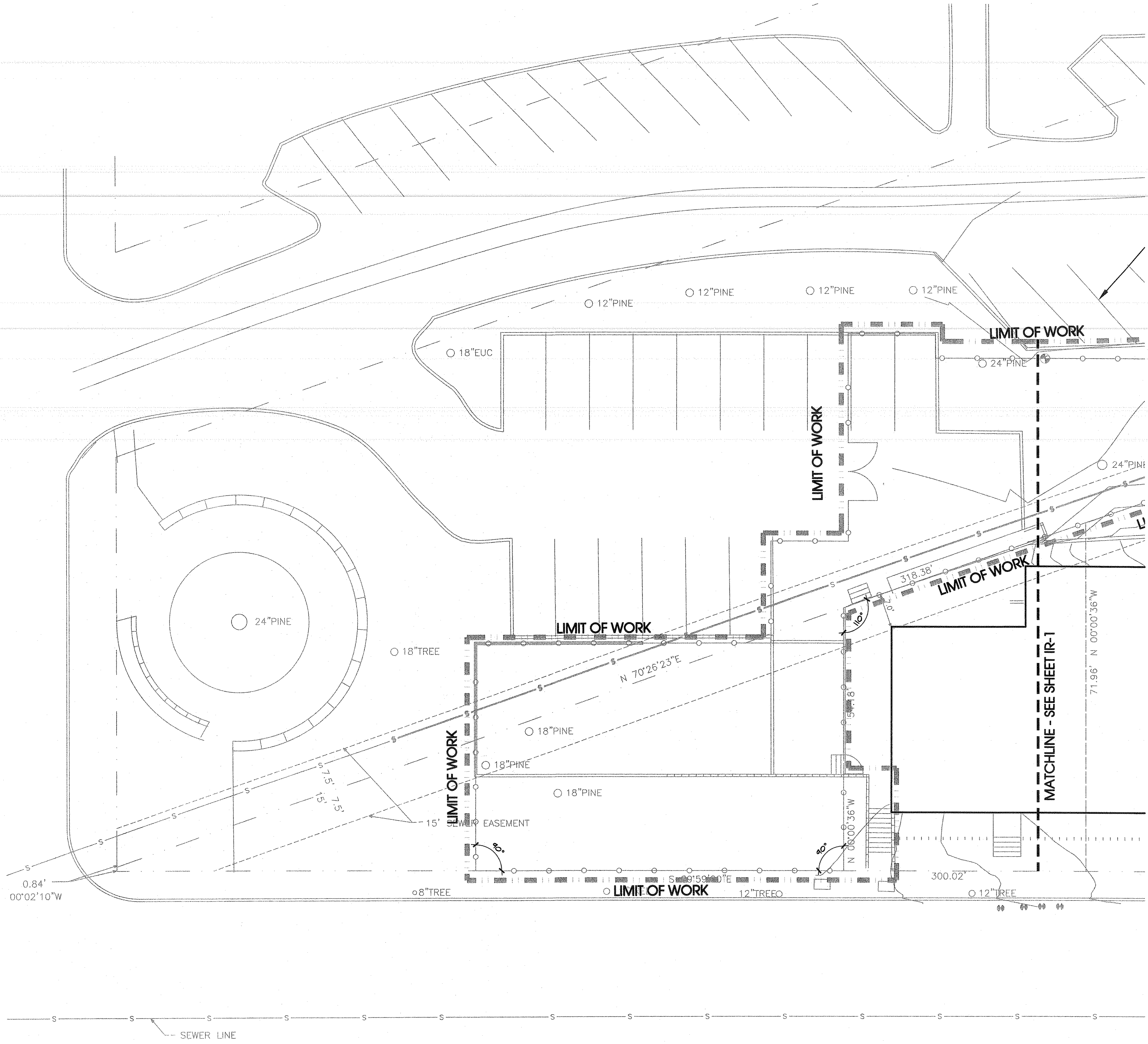
CLIENT
EL SEGUNDO SKATE PARK
CITY OF EL SEGUNDO
405 EAST GRAND AVE.
EL SEGUNDO, CA 90245

SCALE:
1" = 10'-0"
DATE:
01/08/04
DRAWN BY:
BLW
PROJECT NO:
01-197

SHEET NO.
IR-1
OF
13

DIGALERT
DIAL TOLL FREE
1-800-422-4133
AT LEAST TWO DAYS
BEFORE YOU DIG





markiss-rose-rsi
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 801 North Harbor Boulevard
 Fullerton, CA 92632
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 (714) 871-5638

REVISIONS

IRRIGATION PLAN

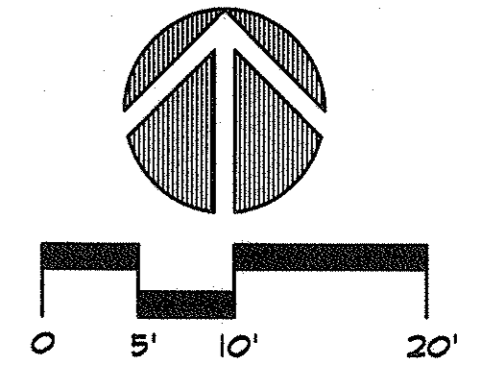
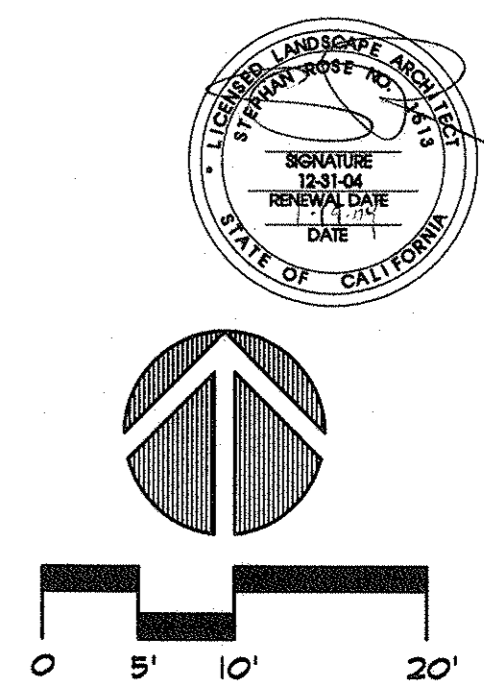
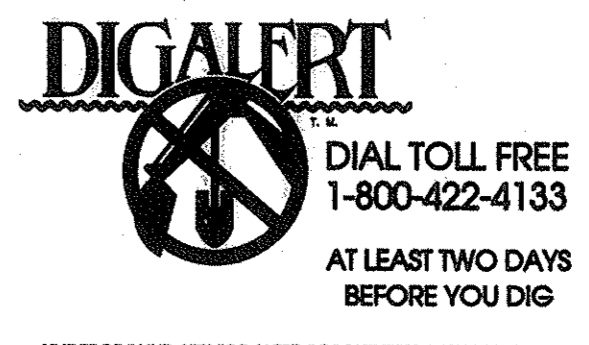
SHEET TITLE

CLIENT
EL SEGUNDO SKATE PARK
 CITY OF EL SEGUNDO
 405 EAST GRAND AVE.
 EL SEGUNDO, CA 90245

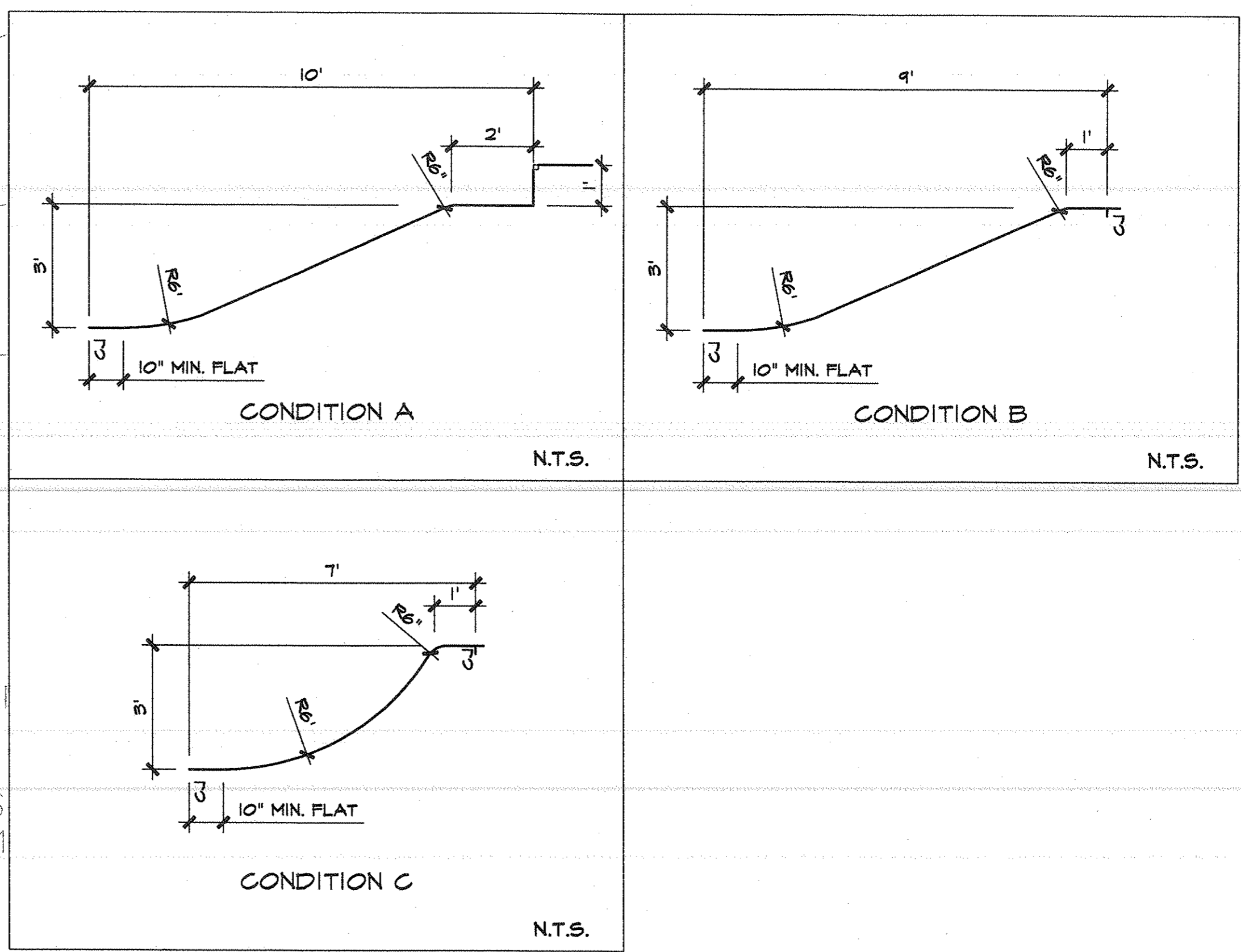
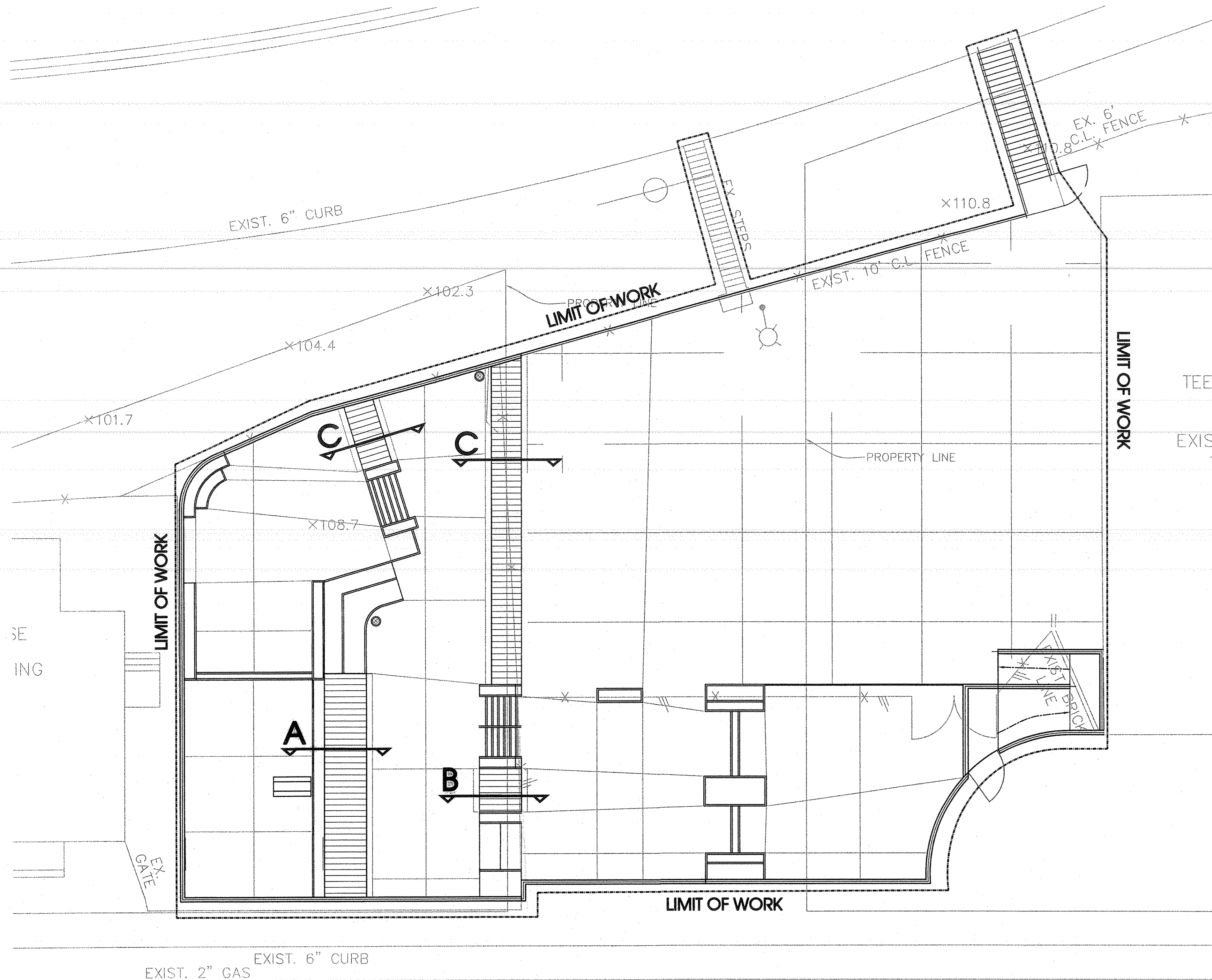
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1" = 10'-0"
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01/08/04
 DRAWN BY:
RJE
 PROJECT NO:
01-197

SHEET NO.
IR-2
 OF

L-1368



Items: 01-197/Sheets/IR-1-IR-2 IRRIGATION PLAN.dwg, IR-2, 01/19/2004 02:16:47 PM, RW-470 Bend.pct, Arch D 24 x 36 in, 1:1



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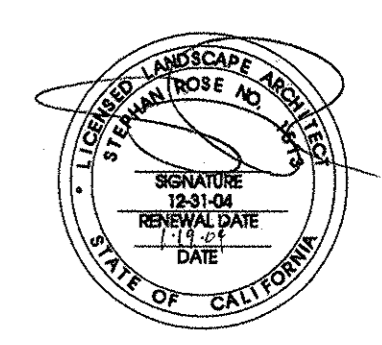
REVISIONS

RAMP CHART

EL SEGUNDO SKATE PARK
 CITY OF EL SEGUNDO
 405 EAST GRAND AVE.
 EL SEGUNDO, CA 90245

CLIENT: NO SCALE
 DATE: 01/08/04
 DRAWN BY: T.V.
 PROJECT NO: 01-197

SHEET NO. **R-1** OF



STRUCTURAL NOTES

REINFORCING STEEL

- REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615. (DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A-305) AS FOLLOWS:
 - FOR ALL REINFORCED CONCRETE: GRADE 40 (#3 AND #4 BAR).
 - FOR ALL REINFORCED CONCRETE: GRADE 60 (#5 BAR OR LARGER).
- W/F SHALL CONFORM TO ASTM A-82 AND A-185. LAP 1-1 1/2 SPACES (9" MIN.)
- LAP REINFORCING IN MASONRY 40 DIA. MIN. AND 30 DIA. MIN. IN CONCRETE (24" MIN.).
- PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
- BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
- MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:

A. CAST AGAINST EARTH	3"
B. CAST AGAINST FORM BELOW	2"
C. FORMED SLABS (#11 BAR AND SMALLER)	2"
D. SLABS ON OR (FROM TOP OF SLAB)	2"
E. COLUMNS AND BEAMS (MAIN BARS)	2"
F. WALLS EXPOSED TO WEATHER (#4 THROUGH #18 BARS)	1 1/2"
(#5 BAR AND SMALLER)	1"
NOT EXPOSED TO WEATHER - (#11 BAR AND SMALLER)	3"
- DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO A.C.I. "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
- WHEN REQUIRED, CONTINUOUS INSPECTION OF CONCRETE OR MASONRY SHALL INCLUDE INSPECTION OF INSTALLATION OF REINFORCING STEEL. INSPECTION SHALL BE SCHEDULED SO THAT PLACEMENT OF REINFORCING STEEL, CONDUIT, SLEEVES, AND EMBEDDED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GROSS OF REINFORCING STEEL.
- WHEN WELDING OF REINFORCING BARS IS REQUIRED, IN ADDITION TO THE REQUIREMENTS OF ASTM A-615, A REPORT OF MATERIAL PROPERTIES SHALL BE PROVIDED BY THE REINFORCING MANUFACTURER TO VERIFY THAT MATERIAL PROPERTIES ARE THOSE NECESSARY FOR CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN AWS D1.1, "STRUCTURAL WELDING CODE - REINFORCING STEEL." IN LIEU OF SUPPLYING A SUPPLEMENTAL REPORT, BARS CONFORMING TO ASTM A-706 MAY BE USED.

STRUCTURAL AND MISC. STEEL

- STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.

ALL STEEL MEMBERS SHALL CONFORM TO THE FOLLOWING:

 - STEEL: ASTM A-36
 - PIPE COLUMNS: ASTM A-53, GRADE B OR ASTM A 501 U.N.O.
 - STRUCTURAL TUBING: ASTM A-500, GRADE B.
 - MACHINE BOLTS OR ANCHOR BOLTS: ASTM A-307.
 - HIGH STRENGTH BOLTS: ASTM A-325 OR ASTM A-490.
- ERECTION AND SHOP DETAIL DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION AND ERECTION.
- HIGH STRENGTH BOLTS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE AISC SPECIFICATION FOR "STRUCTURAL JOINTS USING ASTM A325 AND A490 BOLTS." SPECIAL INSPECTION IS REQUIRED PER UBC SECTION 106 FOR INSTALLATION OF HIGH STRENGTH BOLTS.
- ALL WELDING SHALL COMPLY WITH AWS D1.1 SPECIFICATIONS AND SHALL BE DONE BY WELDERS CERTIFIED FOR THE TYPE OF WELDING TO BE PERFORMED AS REQUIRED BY THE DEPARTMENT OF BUILDING AND SAFETY. ALL WELDING SHALL BE DONE BY ELECTRIC ARC PROCESS WITH E70XX ELECTRODES AND ALSO BE DONE EITHER IN THE SHOP OF A LICENSED FABRICATOR OR WITH CONTINUOUS INSPECTION BY A REGISTERED DEPUTY WELDING INSPECTOR.
- RAMSET/REDHEAD ANCHORS SHALL CONFORM TO L.A. CITY R.R., NO. 2748 OR I.C.B.O. REPORT NO. 1372, AS APPLICABLE TO THE PROJECT. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION. ALTERNATE ANCHORS SHALL BE USED UPON ENGINEER'S APPROVAL ONLY.
- SIMPSON CONNECTORS SHALL CONFORM TO L.A. CITY R.R. NOS. 22088, 24818, 24847, 24848 AND 24849 OR I.C.B.O. REPORT NOS. 1211, 1253, 1746, 4448 AND NER - 208, 383, 421, 422, 432 AS APPLICABLE TO THE PROJECT. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION. ALTERNATE METAL CONNECTORS SHALL BE USED UPON ENGINEER'S APPROVAL.
- ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, ETC.) SHALL BE PAINTED, U.N.O. WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE" AND THE "AISC SPECIFICATION SECTION 1.24".

CONCRETE: FOR FOOTINGS & SLABS OVER SUBGRADE WITH NEGLIGIBLE OR VERY LOW EXPANSION, NO LIQUEFACTION & NEGLIGIBLE SULPHATE CONTENT PER THE SOILS REPORT.

- THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS:

f _c = 2500 psi, Max. W/C=0.60	- FOOTINGS AND SLAB
f _c = 3000 psi, Max. W/C=0.60	- CONCRETE RETAINING WALLS
- CEMENT SHALL CONFORM TO ASTM C-150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS OR REQUIRED BY THE SOILS ENGINEER DURING FINAL GRADING.
- CONCRETE MIX DESIGN: THE MAXIMUM SLUMP SHALL NOT EXCEED 3" ± 1" FOR ALL CONCRETE. WATER/CEMENT RATIO SHALL NOT EXCEED 0.60. MIX DESIGN SHALL BE PREPARED BY AN APPROVED TESTING LABORATORY, STAMPED/SIGNED BY A LICENSED CIVIL ENGINEER AND SUBMITTED TO THE ENGINEER FOR REVIEW. THE USE OF A POLYMER BASED WATER REDUCING ADMIXTURE IS OPTIONAL, BUT IF USED, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- ALL CONCRETE UNLESS NOTED OTHERWISE SHALL BE REGULAR WEIGHT TYPE (150 # /CF). AGGREGATES SHALL CONFORM TO ASTM C-33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN .005.
- CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT. ALTERNATE METHODS WILL BE APPROVED IF SATISFACTORY PERFORMANCE CAN BE ASSURED.
- CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET. USE TREMIE OR PUMP.
- ALL CONCRETE WITH A 28 DAY STRENGTH GREATER THAN 2500 P.S.I. SHALL BE CONTINUOUSLY INSPECTED BY A QUALIFIED INSPECTOR WHILE BEING PLACED PER UBC 1701.5, U.N.O.
- CONCRETE SLAB FLATNESS (FF)/LEVELNESS (FL): CONCRETE FLOOR AND SLAB CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF ACI 302, "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION". FLATNESS/LEVELNESS SHALL CONFORM TO THE REQUIREMENTS OF ASTM E1155 BASED ON THE SPECIFIC FLOOR USE CATEGORY WITH ASSIGNED MINIMUM FF AND FL NUMBERS. VERIFY WITH ARCHITECT OR OWNER FOR THIS REQUIREMENT.

GENERAL NOTES

- WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE UBC INCLUDING ALL AMENDMENTS.
- GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. CONSULT ENGINEER IF CONFLICT EXISTS PRIOR TO USING DETAILS.
- SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL FLOOR AND WALL OPENINGS, FLOOR FINISHES, SLAB DEPRESSIONS, SLOPES, CURBS, DRAINS, OPENINGS, ETC., NOT SHOWN ON STRUCTURAL DRAWINGS.
- SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS REQUIRED FOR DUCTS, PIPES AND SLEEVES, ELECTRICAL CONDUITS AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE OR OTHERWISE INCORPORATED IN STRUCTURAL WORK.
- OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH ANY WORK INVOLVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS THEY SHALL BE REPORTED TO THE ENGINEER SO THAT THE PROPER REVISION MAY BE MADE. MODIFICATIONS OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO BRACING, TEMPORARY SUPPORTS, AND SHORING.
- THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND/OR CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE OPENINGS AND SUPPORTS, AS REQUIRED FOR HEATERS, MECHANICAL EQUIPMENT, VENTS, DUCTS, PIPING, ETC. ALL SUSPENDED MECHANICAL EQUIPMENT TO BE SWAY OR LATERALLY BRACED.
- CAL/OSHA CONSTRUCTION SAFETY REGULATIONS SHALL BE COMPLIED WITH FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR.
- THE ENGINEER SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE.

DEMOLITION NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS FOR DEMOLITION WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING ALL REQUIRED PEDESTRIAN PROTECTION, INCLUDING FENCES AND CANOPIES, FOR CAPPING EXISTING SEWER LINES, ELECTRICAL CONDUITS, ETC. AND SHALL HAVE THE ABOVE ITEMS INSPECTED PRIOR TO STARTING ANY DEMOLITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBEYING ALL STANDARD OSHA SAFETY RULES AS SET FORTH IN THE CAL/OSHA (STATE OF CALIFORNIA) CONSTRUCTION SAFETY ORDERS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING ALL TEMPORARY SHORING, BRACING, ETC. FOR EXISTING CONSTRUCTION TO REMAIN. DESIGN OF ALL TEMPORARY SUPPORTS SHALL CONSIDER ALLEAD LOADS, LIVE LOADS, IMPACT LOADS, ETC., PER UNIFORM BUILDING CODE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ORDER OF WORK TO BE PERFORMED FOR SHORING, DEMOLITION, AND NEW CONSTRUCTION FOR THE ENTIRE PROJECT.

RETAINING WALLS:

- RETAINING WALLS HAVING STRUCTURAL SUPPORT AT TOP OF WALL SHALL NOT BE BACKFILLED UNTIL THE CONCRETE OR MASONRY OBTAINS ITS DESIGN STRENGTH AND UNTIL ALL REQUIRED BRACING AND SHORING IS IN PLACE - BRACING AND SHORING SHALL NOT BE REMOVED UNTIL STRUCTURAL SLAB HAS CURED FOR A 7 DAY PERIOD OR PLYWOOD SHEATHING OVER WOOD JOISTS HAS BEEN STRUCTURALLY NAILED.
- BACKFILL BEHIND A RETAINING WALL SHALL NOT BE PLACED UNTIL THE CONCRETE OR MASONRY OBTAINS ITS DESIGN STRENGTH AND ALL MOISTURE BARRIERS AND DRAINS ARE IN PLACE. SOILS SHALL BE PLACED AND COMPACTED IN EQUAL LIFTS ON BOTH SIDES OF THE WALL UNTIL THE LOWER ELEVATION IS REACHED. USE LIGHTWEIGHT TAMPERS BEHIND WALLS AT HIGHER ELEVATION.
- NOTIFY STRUCTURAL ENGINEER IF SUPERIMPOSED LOADING FROM EXISTING ADJACENT FOUNDATIONS (WITHIN A DISTANCE DEFINED BY A 45° IMAGINARY LINE PROJECTED UPWARD FROM TOP OF NEW FOOTINGS) IS PRESENT.
- SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR WATERPROOFING, DAMP PROOFING AND BACKFILL DRAINAGE DETAILS. BACKFILL SHALL NOT BE PLACED UNTIL ALL SUCH WORK IS COMPLETED.

FOUNDATIONS:

- ALLOWABLE FOUNDATION AND LATERAL PRESSURE FOR SOILS SHALL BE PER 1997 UNIFORM BUILDING CODE TABLE 16-1 A.
- FILLING AND BACKFILLING SHALL BE COMPACTED TO 90% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D-1557-94. FLOODING NOT PERMITTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.

STRUCTURAL ENGINEERS
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REVISIONS

NO.	DESCRIPTION

STRUCTURAL NOTES

SHEET TITLE

CLIENT
EL SEGUNDO SKATE PARK
CITY OF EL SEGUNDO
405 GRAND AVE.
EL SEGUNDO, CA 90245

SCALE:
AS NOTED
DATE:
01/08/04
DRAWN BY:
K.C.
PROJECT NO:
02-269

SHEET NO.
S-1
OF

STRUCTURAL ENGINEERS
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REVISIONS

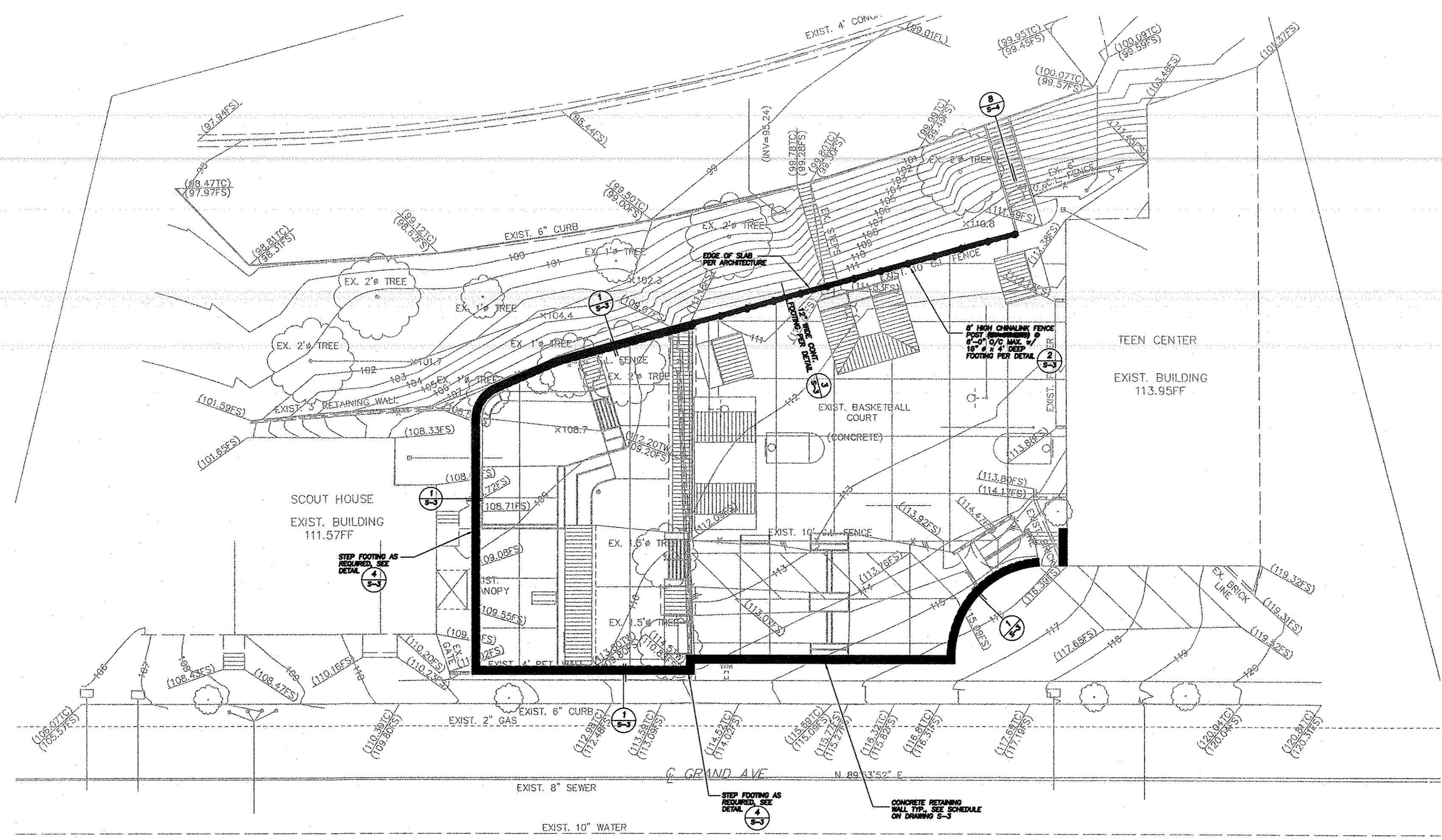
FOUNDATION PLAN

SHEET TITLE

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EL SEGUNDO SKATE PARK
 CITY OF EL SEGUNDO
 405 GRAND AVE.
 EL SEGUNDO, CA 90245

SCALE: **1"=20'**
 DATE: **01/08/04**
 DRAWN BY: **K.C.**
 PROJECT NO: **02-269**

SHEET NO.
S-2
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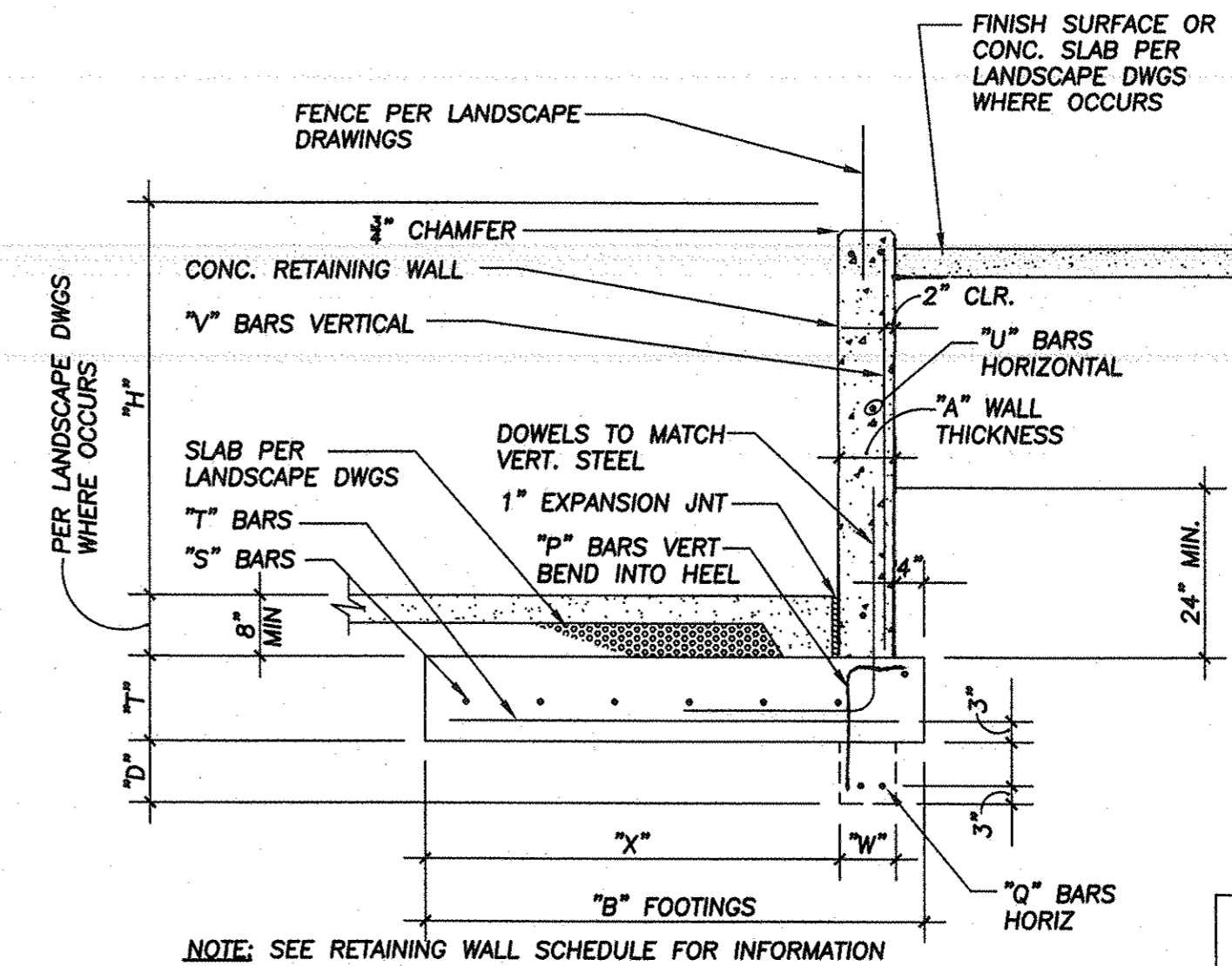
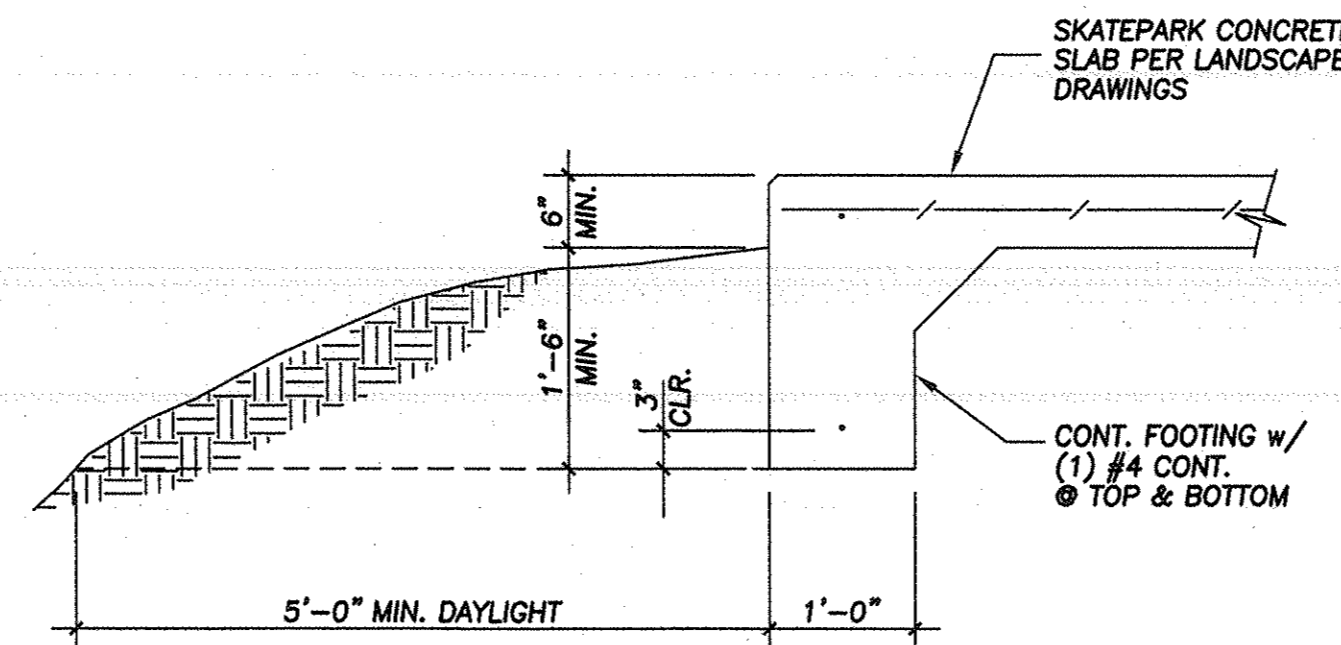


CANTILEVERED RETAINING WALL SCHEDULE

H FT	h1 FT	WALL TYPE	WALL THK. A	B FT-IN	T FT-IN	W FT-IN	D FT-IN	S BARS	T BARS	U BARS	V BARS	P BARS	Q BARS	X FT	Y FT	REMARKS	DET.
1'-6"		CONCRETE	8	1'-6"	1'-0"	-	-	(2)#4 CONT.	#4 @ 12" O.C.	#4 @ 11" O.C.	#4 @ 18" O.C.	-	-	-	-	-	(1)
2'-6"		CONCRETE	8	2'-0"	1'-0"	0'-8"	0'-3"	(2)#4 CONT.	#4 @ 12" O.C.	#4 @ 11" O.C.	#4 @ 18" O.C.	-	-	6 1/2"	-	-	(1)
3'-0"		CONCRETE	8	2'-3"	1'-0"	0'-8"	1'-0"	(2)#4 CONT.	#4 @ 12" O.C.	#4 @ 11" O.C.	#4 @ 18" O.C.	#4 @ 18" O.C.	(1)#4 CONT.	0'-11"	-	-	(1)
4'-6"		CONCRETE	8	2'-6"	1'-0"	0'-8"	1'-6"	(3)#4 CONT.	#4 @ 12" O.C.	#4 @ 11" O.C.	#4 @ 18" O.C.	#4 @ 18" O.C.	(1)#4 CONT.	0'-11"	-	-	(1)
5'-6"		CONCRETE	8	3'-0"	1'-0"	0'-8"	2'-0"	(3)#4 CONT.	#4 @ 12" O.C.	#4 @ 11" O.C.	#5 @ 18" O.C.	#4 @ 18" O.C.	(1)#4 CONT.	1'-2"	-	-	(1)
6'-6"		CONCRETE	8	3'-6"	1'-0"	0'-8"	2'-8"	(4)#4 CONT.	#4 @ 12" O.C.	#4 @ 11" O.C.	#5 @ 12" O.C.	#4 @ 12" O.C.	(2)#4 CONT.	1'-8"	-	-	(1)

CLASS B REBAR TENSION SPLICE LENGTH											
(PROVIDED CONCRETE COVER, CLEAR BAR SPACING AND TRANSVERSE REINFORCEMENT ARE IN COMPLIANCE WITH 1997 UBC, SECTION 1912 & ACI 318-99)											
f'c	LOCATION	Fy	BAR SIZE								
			3	4	5	6	7	8	9	10	11
SPLICE LENGTH IN INCHES											
2500 psi WEIGHT CONCRETE	TOP BARS OF BEAMS AND HORIZONTAL WALL STEEL	40	20	27	34	41	59	68	76	86	95
	HORIZONTAL WALL STEEL	60	30	41	51	61	89	101	114	129	143
	OTHER BARS	40	16	21	26	31	46	52	59	66	73
3000 psi WEIGHT CONCRETE	TOP BARS OF BEAMS AND HORIZONTAL WALL STEEL	40	19	25	31	37	54	62	70	78	87
	HORIZONTAL WALL STEEL	60	28	37	46	56	81	93	104	118	131
	OTHER BARS	40	14	19	24	28	42	47	54	60	67
4000 psi WEIGHT CONCRETE	TOP BARS OF BEAMS AND HORIZONTAL WALL STEEL	40	16	21	27	32	47	53	60	68	75
	HORIZONTAL WALL STEEL	60	24	32	40	48	70	80	90	102	113
	OTHER BARS	40	12	16	21	25	36	41	46	52	58
5000 psi WEIGHT CONCRETE	TOP BARS OF BEAMS AND HORIZONTAL WALL STEEL	40	14	19	24	29	42	48	54	61	67
	HORIZONTAL WALL STEEL	60	22	29	36	43	63	72	81	91	101
	OTHER BARS	40	11	15	18	22	32	37	41	47	52
6000 psi WEIGHT CONCRETE	TOP BARS OF BEAMS AND HORIZONTAL WALL STEEL	40	13	17	22	26	38	44	49	55	62
	HORIZONTAL WALL STEEL	60	20	26	33	39	57	65	74	83	92
	OTHER BARS	40	10	13	17	20	29	34	38	43	47

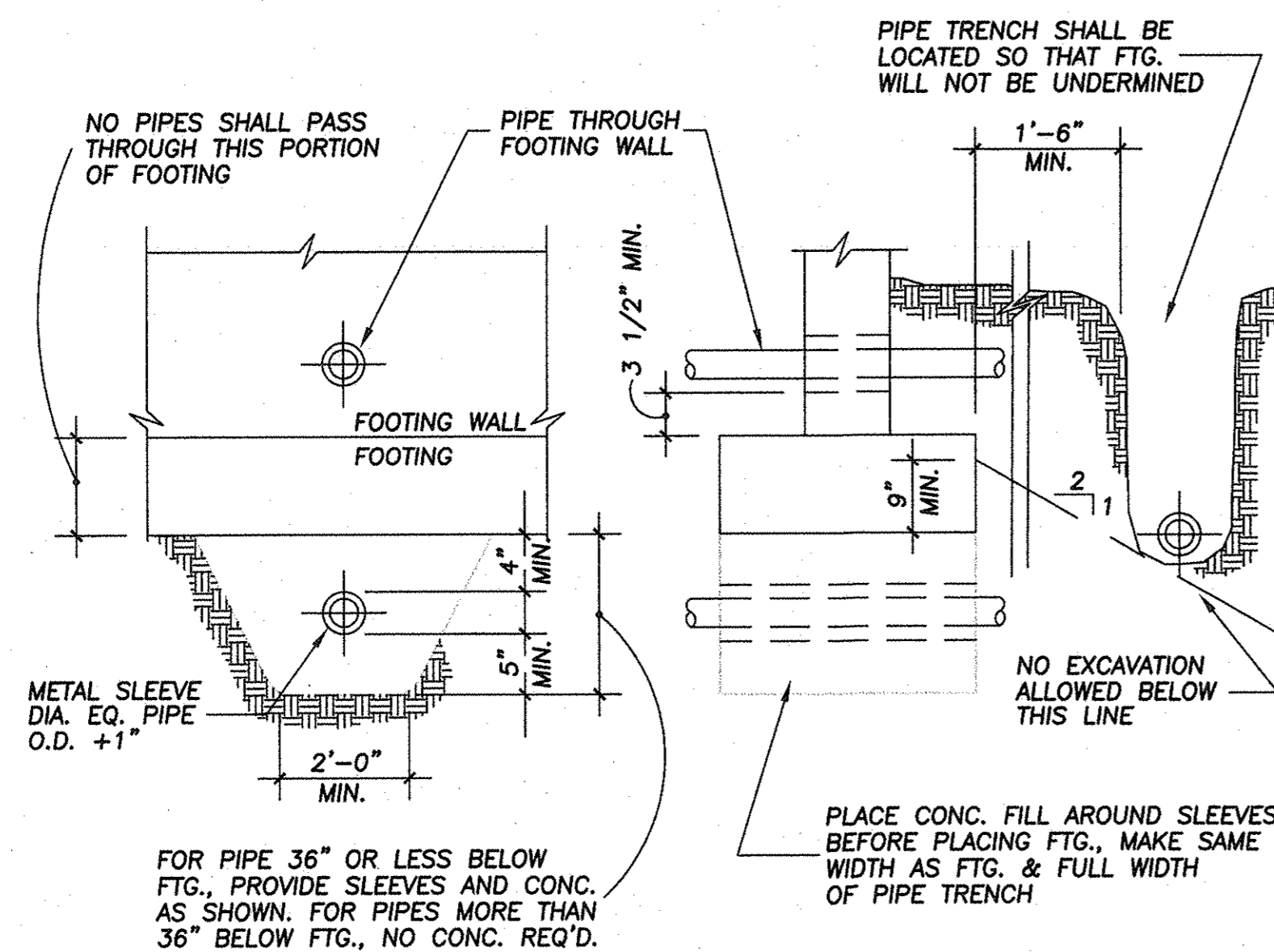
COMPRESSION LAP SPLICE: 30 db, MINIMUM 12"
 COMPRESSION DOWEL LAP: 22 db, MINIMUM 12"
 db = DIAMETER OF REBAR



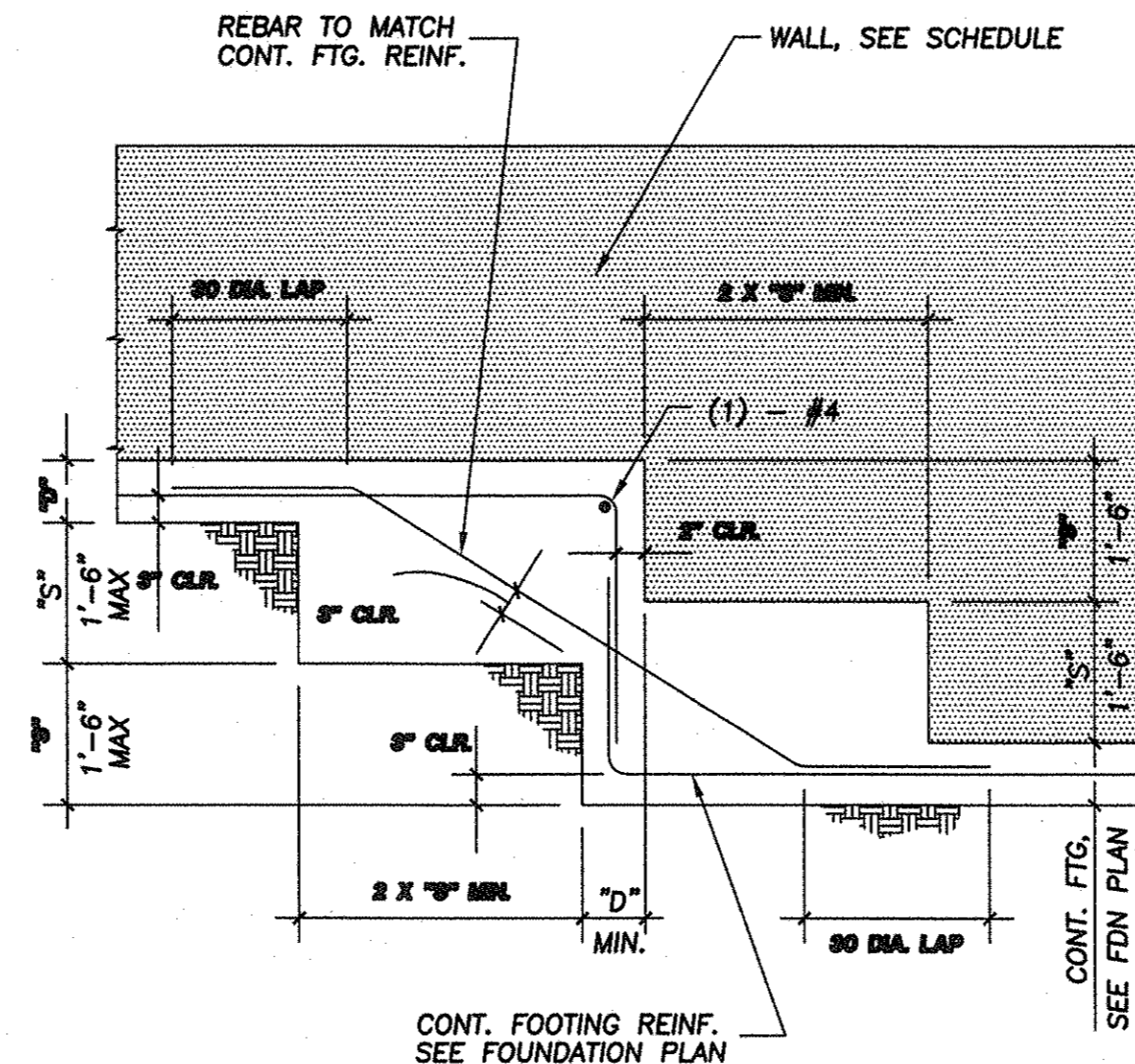
CLASS B REBAR SPLICE SCALE: N.T.S. **5**

THICKENED EDGE DETAIL SCALE: N.T.S. **3**

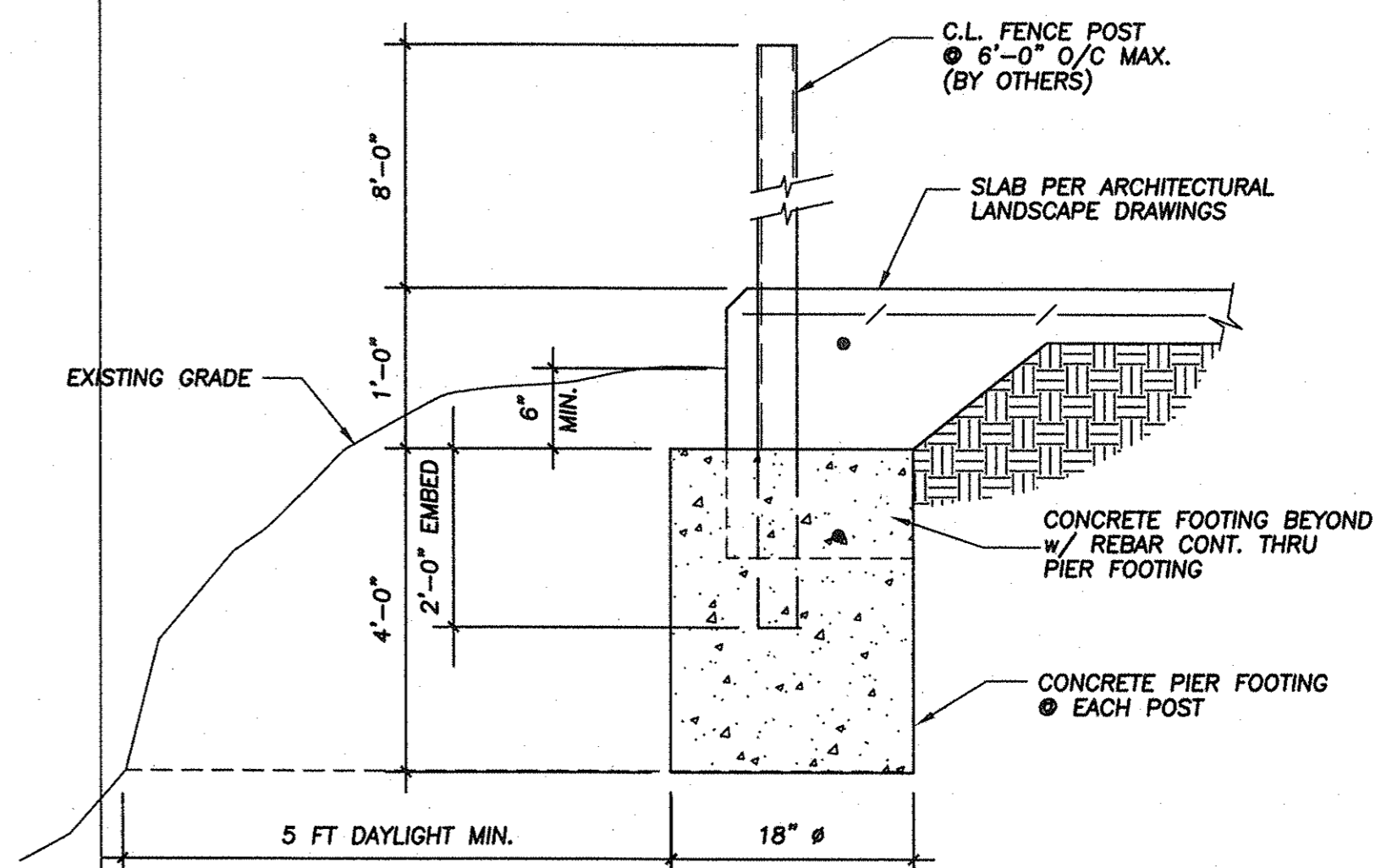
CONCRETE RETAINING WALL SCALE: 1/2" = 1'-0" **1**



PIPES THROUGH FOOTINGS SCALE: N.T.S. **6**



STEPPED FOOTING DETAIL SCALE: N.T.S. **4**



FENCE POST FOOTING SCALE: 1" = 1'-0" **2**

STRUCTURAL DETAILS

EL SEGUNDO SKATE PARK
CITY OF EL SEGUNDO
405 GRAND AVE.
EL SEGUNDO, CA 90245

CLIENT: **AS NOTED**
 DATE: **01/08/04**
 DRAWN BY: **K.C.**
 PROJECT NO: **02-269**

SHEET NO. **S-3**
 OF

STRUCTURAL ENGINEERS
INTEGRAL CONSULTANTS
 10 LYNNFIELD
 IRVINE, CA 92610
 (714) 973-6670, FAX (714) 973-6669

parkiss-rose-rsi
 Landscape Architecture
 Recreation and Park Planning
 80 New Center Street
 Pasadena, CA 91106
 FAX (626) 797-5188
 (714) 671-3638

REVISIONS

SHEET TITLE

CLIENT

SCALE: **AS NOTED**
 DATE: **01/08/04**
 DRAWN BY: **K.C.**
 PROJECT NO: **02-269**

SHEET NO. **S-3**
 OF

REVISIONS

STRUCTURAL DETAILS

SHEET TITLE

CLIENT
EL SEGUNDO SKATE PARK
 CITY OF EL SEGUNDO
 405 GRAND AVE.
 EL SEGUNDO, CA 90245

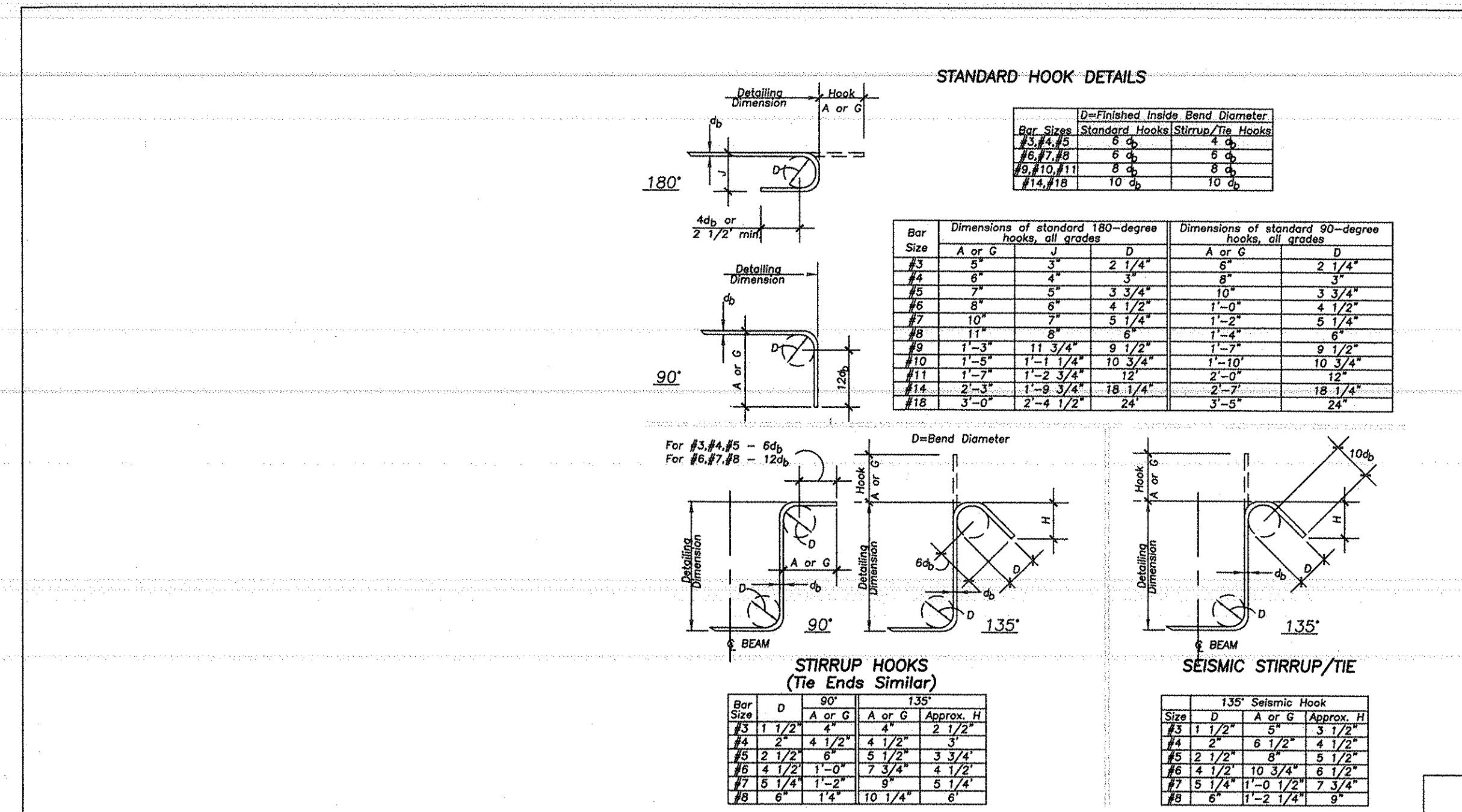
SCALE:
AS NOTED
 DATE:
01/08/04
 DRAWN BY:
K.C.
 PROJECT NO:
02-269

SHEET NO.

S-4

OF

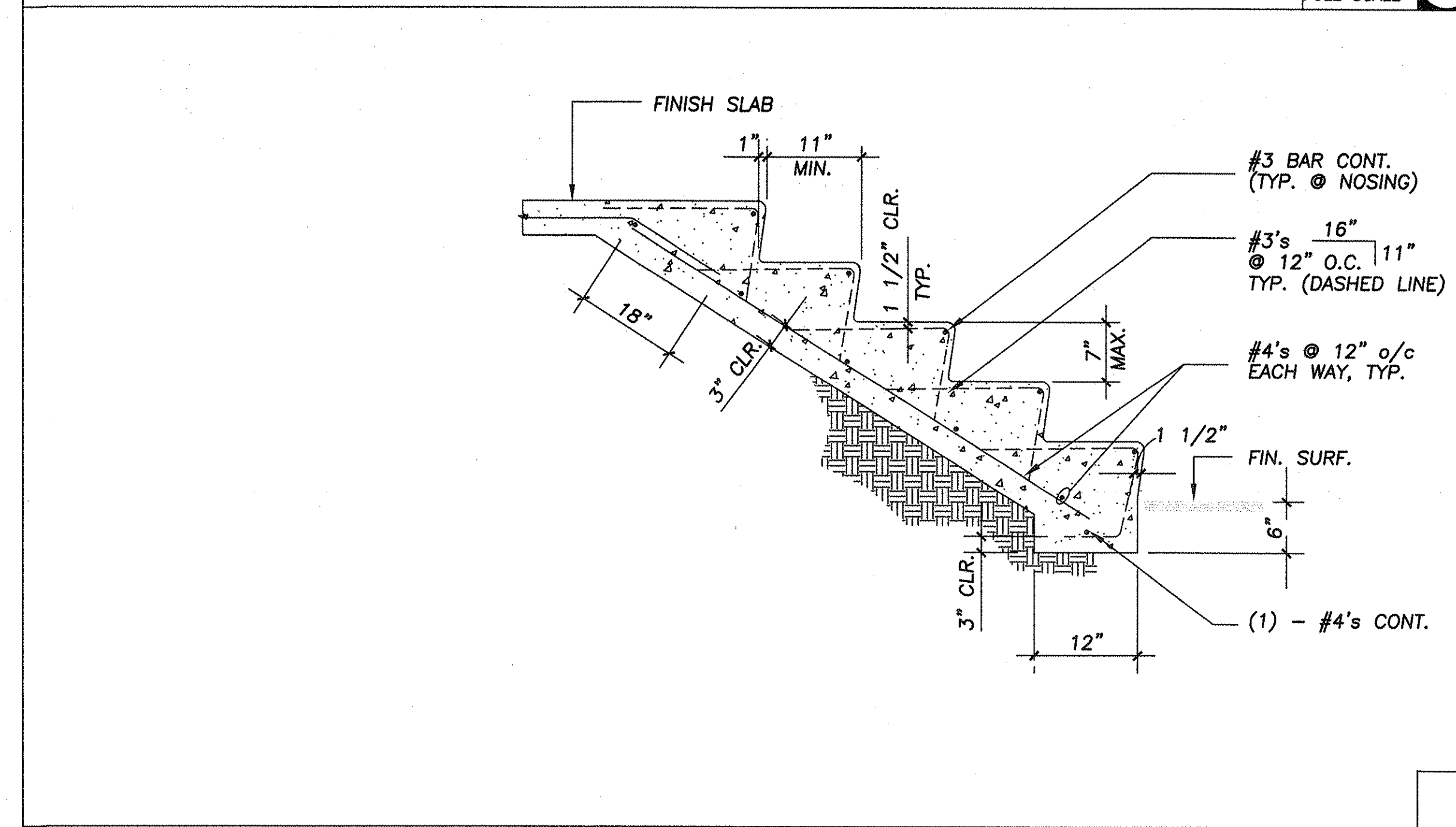
L-1373



STANDARD REBAR HOOK

SCALE:
 FULL SCALE

7

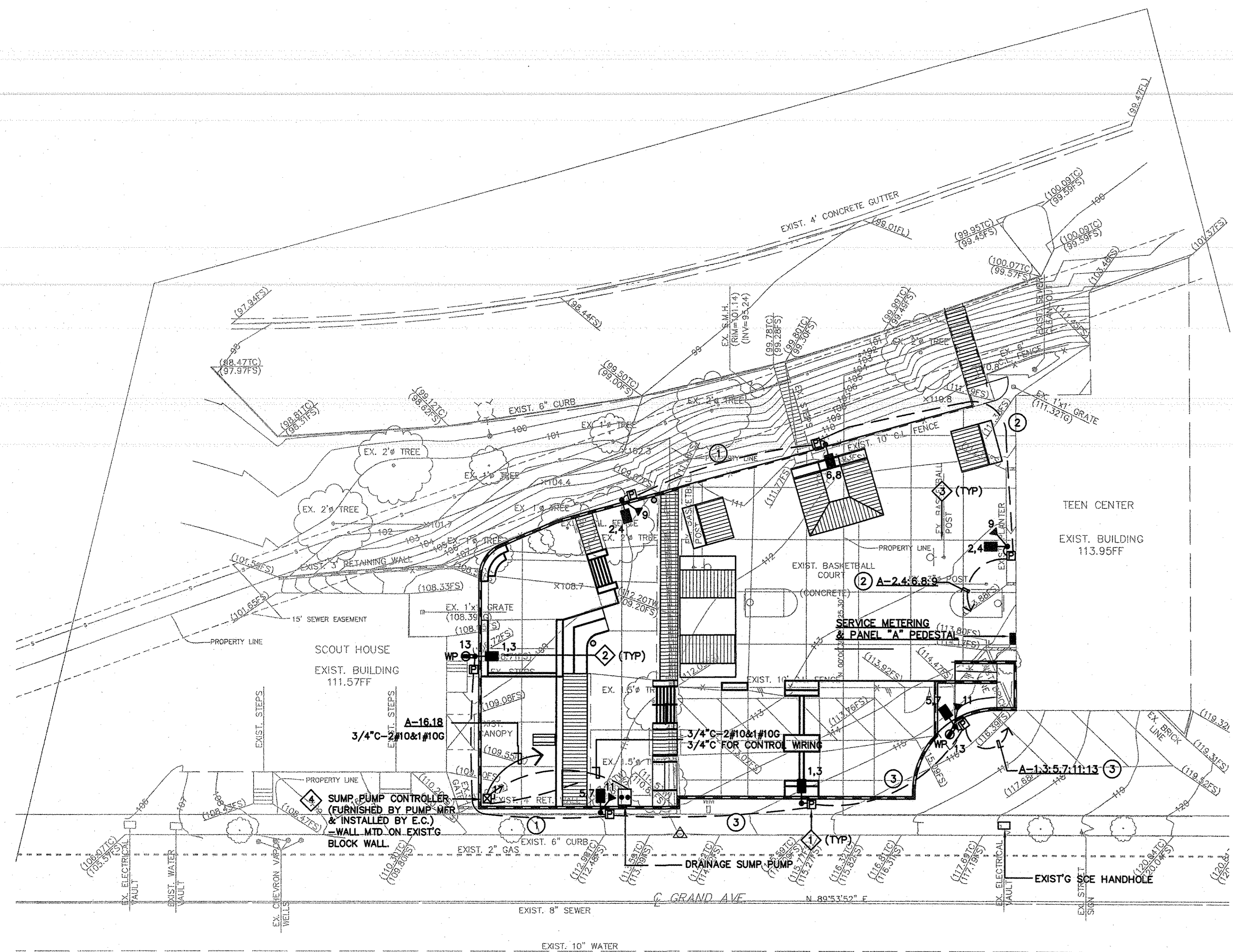


CONCRETE STAIRS DETAIL

SCALE:
 N.T.S.

8

- SITE PLAN GENERAL NOTES:**
1. ALL UTILITY WORK SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE SERVING UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE SERVING UTILITY TO RECEIVE COMPLETE INFORMATION ON THEIR REQUIREMENTS PRIOR TO THE SUBMISSION OF THE BID. THE ACT OF SUBMITTING THE BID SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY OF THE CONTRACTOR TO INSTALL SERVICE IN COMPLIANCE WITH THE SERVING UTILITY AND THE CONTRACT DOCUMENTS.
 2. ALL ITEMS SUCH AS SERVICE CONDUIT, CONDUCTORS, CONCRETE PAD, PULL BOXES AND PROTECTIVE COVERING FROM SERVICE LOCATION SHALL BE PROVIDED, INSTALLED AND SHALL BE VERIFIED WITH THE SERVING UTILITY COMPANY.
 3. ALL CONDUIT ONLY (C.O.) SHALL HAVE A 3/8" POLYPROPYLENE PULL LINE.
 4. ALL LIGHTING CONDUIT SHALL BE P.V.C. SCHEDULE 40, 18" DEEP UNDER CONCRETE AND 36" DEEP UNDER LANDSCAPE AREAS.
 5. THE CONTRACTOR SHALL OBTAIN ADDITIONAL ELECTRICAL PERMIT AS REQUIRED.



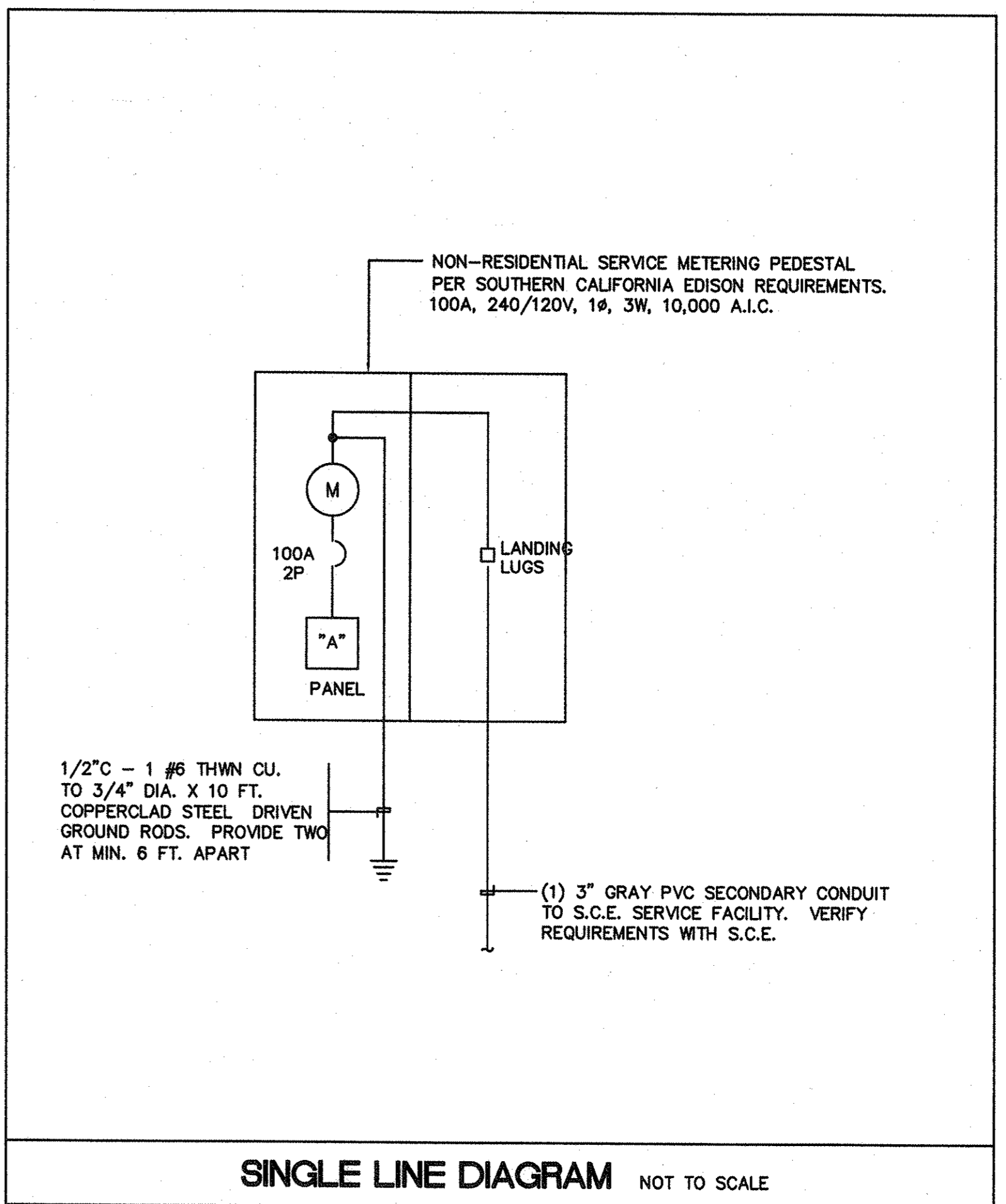
ELECTRICAL SYMBOL LIST	
	H.I.D. SPORTSFIELD FLOODLIGHT POLE STANDARD
	SECURITY LIGHTING FIXTURE ON POLE
	UNDERGROUND ELECTRIC PULL BOX
	SERVICE/METERING PANEL PEDESTAL
	CONDUIT RUN CONCEALED IN OR BELOW FLOOR OR GRADE
	HOMERUN TO PANEL CIRCUITS #1 & #3 WITH WIRES AS NOTED
	PLAN NOTE #2
	GROUND FAULT CIRCUIT INTERRUPTER TYPE DUPLEX RECEPTACLE, +15" ABOVE FIN. WALKING SURFACE
	CONDUIT ONLY
	STREET LIGHT ON POWER POLE
	EXISTING EQUIPMENT OR DEVICE
	INDICATES WEATHERPROOF

ELECTRICAL OVERALL SITE PLAN

- WIRING LEGEND:**
- ① 2" C - 4#8 AND 1#8 GROUND THWN COPPER
 - ② 2" C - 6#8 AND 1#8 GROUND THWN COPPER
 - ③ 2" C - 8#8 AND 1#8 GROUND THWN COPPER

- PLAN NOTES:**
- ① UNDERGROUND PRECAST CONCRETE PULL BOX. SEE SKATE COURT LIGHTING FIXTURE AND POLE STANDARD DETAIL ON SHEET E-2.
 - ② SKATE COURT LIGHTING FIXTURE AND POLE STANDARD - SEE DETAIL ON SHEET E-2.
 - ③ SECURITY LIGHTING FIXTURE ON POLE - SEE DETAIL ON SHEET E-2.
 - ④ SUMP PUMP CONTROL PANEL PROVIDED BY PUMP SUPPLIER. ALL WIRING SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR. VERIFY REQUIREMENT PRIOR TO ROUGH-IN.

POWER COMPANY CONTACT :
 SOUTHERN CALIFORNIA EDISON
 Mr. Roland Ortiz Tel : (310) 783-9345



SINGLE LINE DIAGRAM NOT TO SCALE

Consolidated Engineering
 CONSULTING ELECTRICAL ENGINEERS
 14881 MYFORD ROAD, SUITE C
 TUSTIN, CALIFORNIA 92780
 TEL 714 832-6346 FAX 714 832-9427

REVISIONS	

ELECTRICAL SITE PLAN

SHEET TITLE

EL SEGUNDO SKATE PARK
 CITY OF EL SEGUNDO
 405 GRAND AVE.
 EL SEGUNDO, CA 90245

CLIENT

SCALE:
1" = 20'-0"

DATE:
01/08/04

DRAWN BY:
D.L.

PROJECT NO:
01-197

SHEET NO.
E-1

REVISIONS

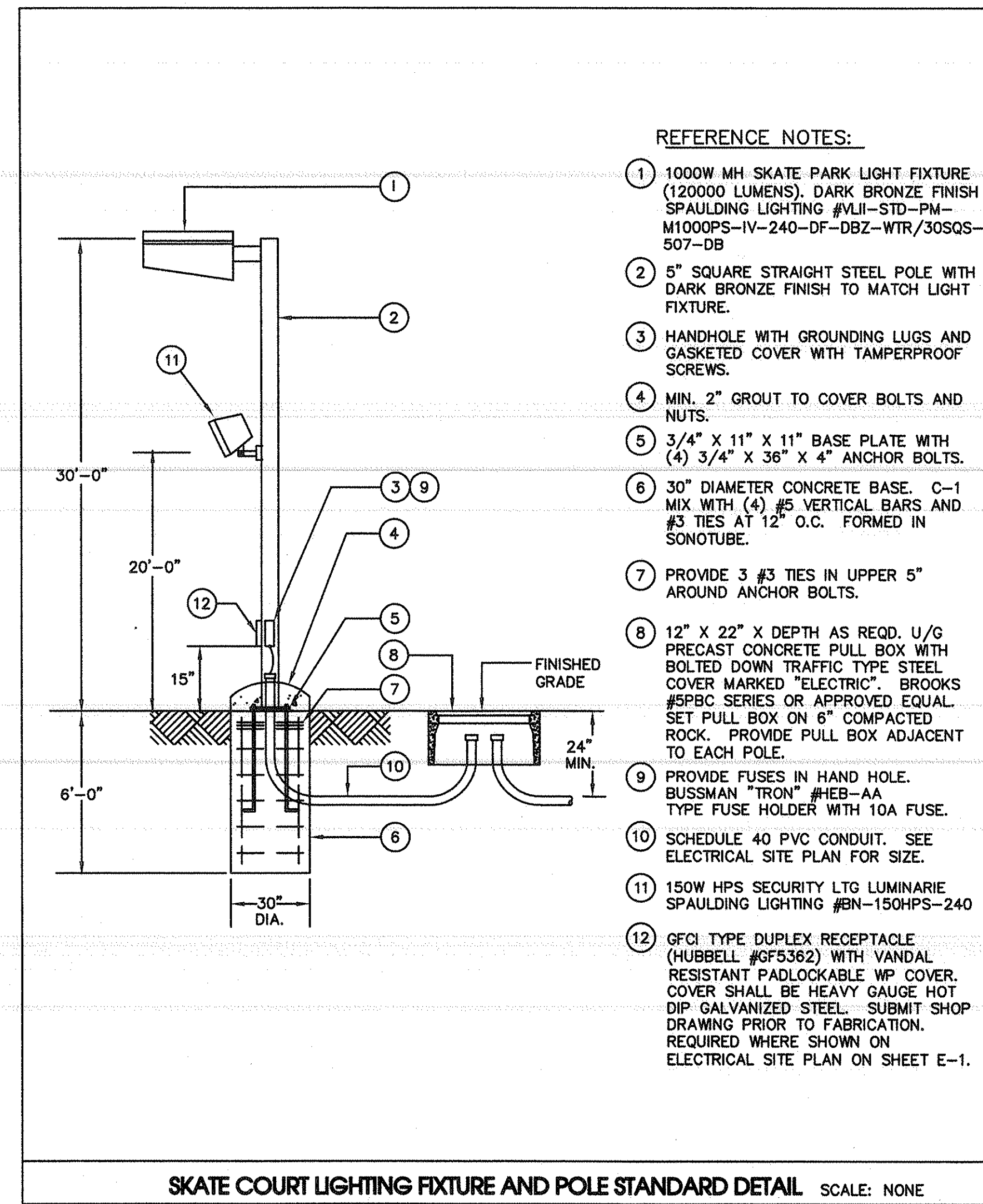
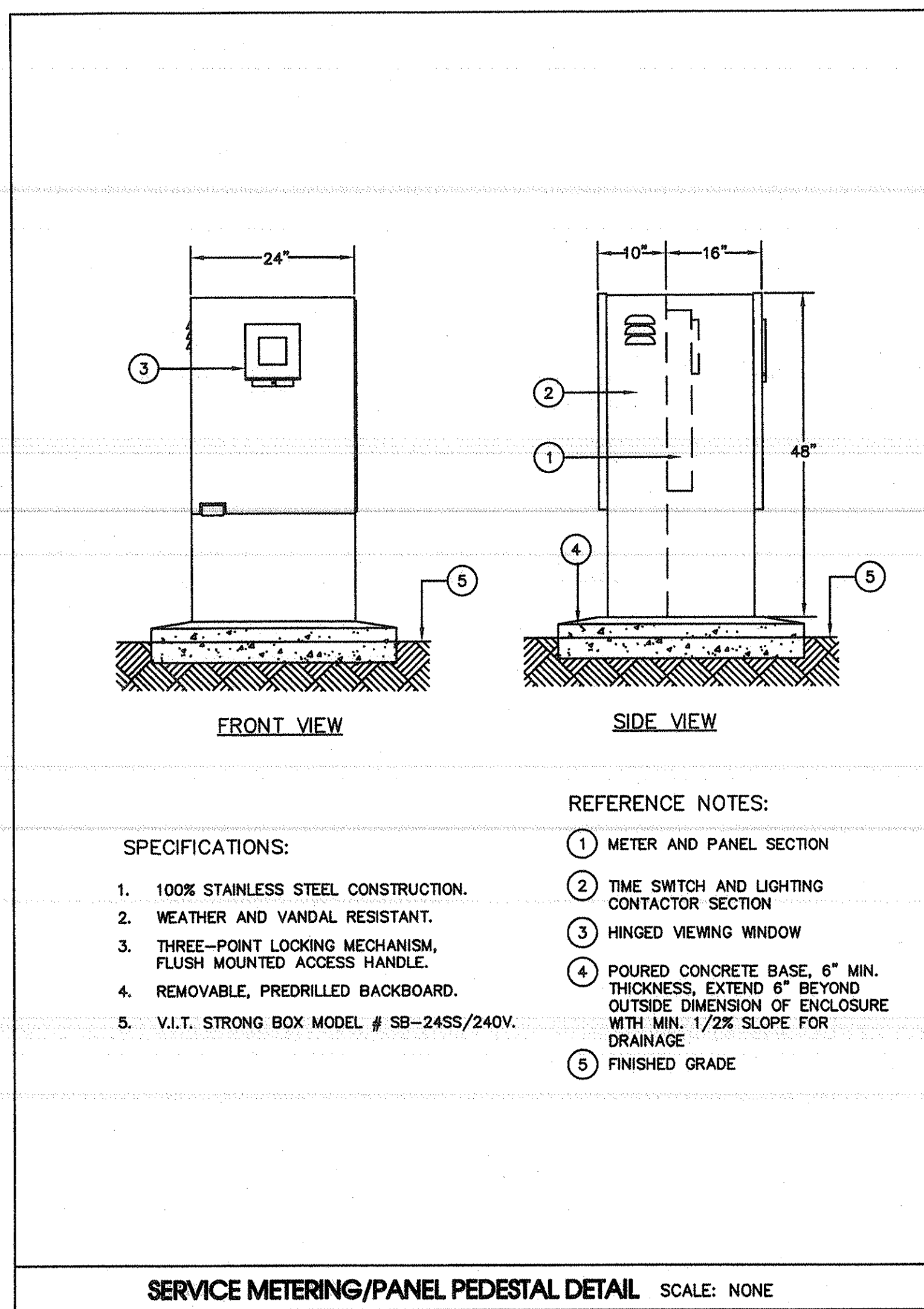
ELECTRICAL MISC. DETAILS

SHEET TITLE

EL SEGUNDO SKATE PARK
 CITY OF EL SEGUNDO
 405 GRAND AVE.
 EL SEGUNDO, CA 90245

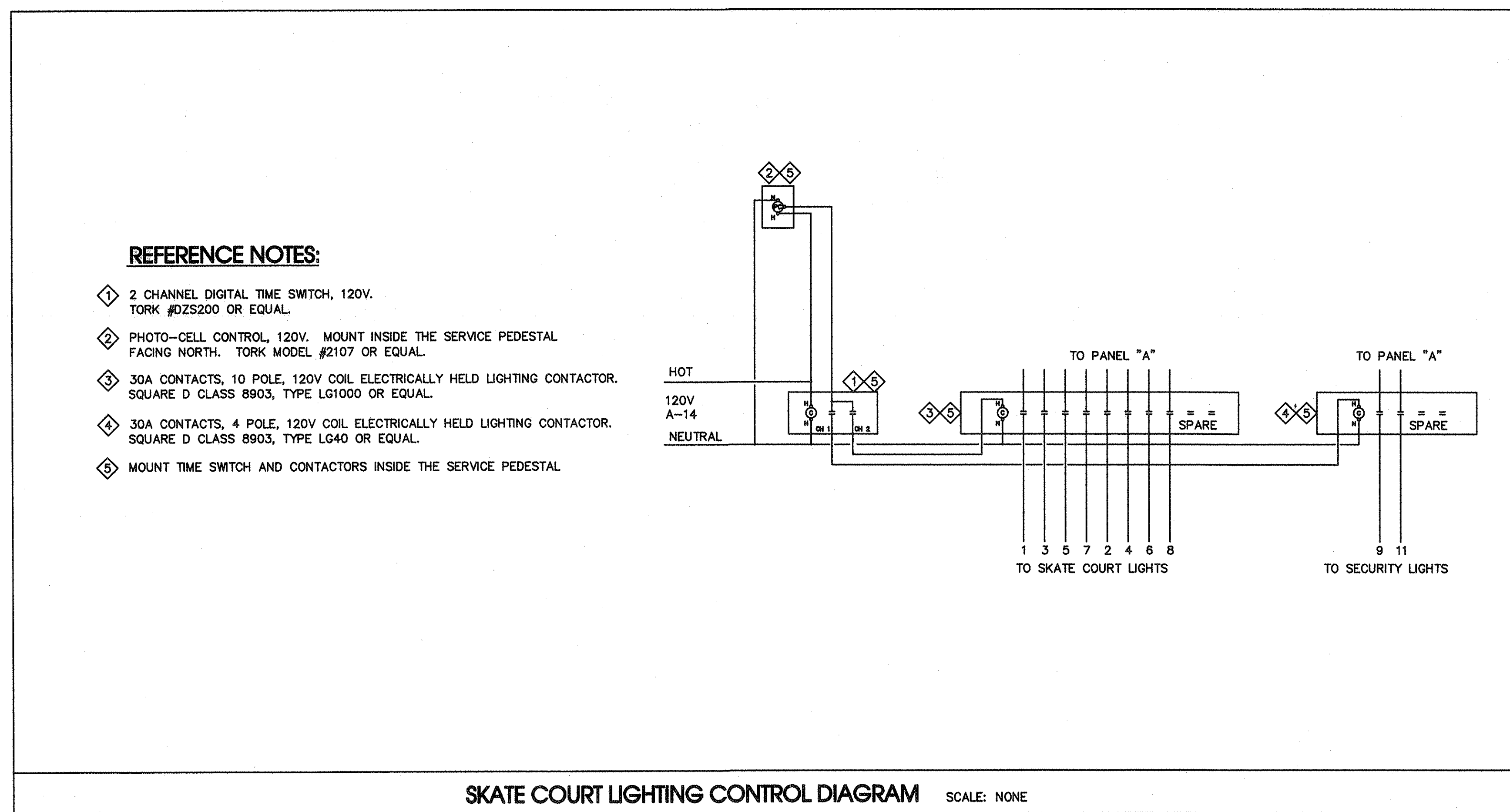
CLIENT
 SCALE: NONE
 DATE: 01/08/04
 DRAWN BY: D.L.
 PROJECT NO: 01-197

SHEET NO.
E-2
 OF



ELECTRICAL GENERAL NOTES

- ALL WORK SHALL BE IN FULL ACCORDANCE WITH ALL STATE, COUNTY, LOCAL CODES, RULES AND REGULATIONS OF GOVERNING AGENCIES HAVING JURISDICTION AND THE PRESENTLY ADOPTED NATIONAL ELECTRICAL CODE (N.E.C.).
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTION REQUIREMENTS.
- THE CONTRACTOR SHALL VERIFY AVAILABILITY OF SERVICES WITH THE POWER COMPANY FOR THE ACTUAL DETAILS PERTAINING THE SERVICE POINT AND THE INSTALLATION REQUIREMENT BEFORE ROUGH-IN.
- THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS, ALL UTILITY SERVICE REQUIREMENTS AND EXACT LOCATIONS OF SERVICE FACILITIES BEFORE SUBMITTING BID. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED.
- ALL MATERIALS SHALL BE NEW, UL LISTED AND APPROVED AS APPROPRIATE. MATERIALS SHALL MEET WITH THE APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY, AND ALL GOVERNING AGENCIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, UL, NEMA AND NBFU. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. INSTALL THE ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH DUCTS, PIPES OR OTHER SYSTEMS.
- ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN 600 VOLT INSULATION, MARKED 24" ALONG ITS LENGTH SHOWING MANUFACTURER'S NAME, MAXIMUM ALLOWABLE VOLTAGE AND SIZE. DELIVER THE WIRE TO THE SITE IN UNBROKEN PACKAGES. MINIMUM SIZE OF WIRE SHALL BE NO. 12 AWG, UNLESS NOTED OTHERWISE. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN COMPLIANCE WITH OSHA.
- CONDUIT BELOW GRADE SHALL PVC SCHEDULE-40 WITH CODE SIZED GROUND. ALL CONDUIT SHEEPS AND RISERS AND STUBS ABOVE GRADE SHALL BE L.M.C. WITH HALF-LAPPED TAPE COVERING OR PVC COATING. TRANSITIONS FROM BELOW GRADE. METALLIC RACEWAY SHALL BE INSTALLED ABOVE GRADE. FLEXIBLE CONDUIT USED IN DAMP AND OUTDOORS SHALL BE WEATHERPROOFED.
- ALL FEEDERS RUN IN NON-METALLIC CONDUITS SHALL HAVE GREEN GROUND CONDUCTORS SIZED IN ACCORDANCE WITH APPLICABLE CODES. THE CONTRACTOR SHALL MAINTAIN UNIFORMITY AND CONTINUITY OF THE GROUNDING SYSTEM.
- ALL CONDUIT ONLY (C.O.) SHALL HAVE A 3/16" FULL WIRE OR ROPE, AND SEALED IN ACCORDANCE WITH SECTIONS 300-5 AND SECTION 230-8 OF THE N.E.C.
- TEST THE COMPLETE SYSTEM TO DEMONSTRATE THAT THE ELECTRICAL COMPONENTS AND SYSTEMS ARE COMPLETE, INSTALLED AND FUNCTION PROPERLY. MAKE NECESSARY CORRECTIONS TO MALFUNCTION AND LEAVE SYSTEM READY FOR OPERATION.
- PROVIDE THE OWNER WITH ONE (1) SET OF COMPLETE ELECTRICAL "AS-BUILT" AT THE COMPLETION OF THE JOB, SHOWING ACTUAL CONDUIT RUNS, DEPTIONS AND LOCATIONS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL MAJOR PIECES OF ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO THE FOLLOWING: SWITCHBOARD, PANELBOARDS, TRANSFORMERS, LIGHTING FIXTURES AND POLES, CONTROL PANELS AND FULL BOXES. THE CONTRACTOR SHALL SUBMIT UTILITY METERING SERVICE EQUIPMENT SHOP DRAWINGS TO THE SERVING UTILITY AND WITH APPROVAL PRIOR TO FABRICATION.
- ALL WORK SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK BY THE OWNER.



DESCRIPTION	VOLT AMPS		LTD	REG	M	BKR	CKT	NO.		LTD	REG	M	VOLT AMPS		DESCRIPTION	
	A	B						A	B				A	B		
SKATE COURT LIGHTS	1100		2				20	1					2		1100	SKATE COURT LIGHTS
SKATE COURT LIGHTS	1100	1100	2			2	20	3					4	2	1100	SKATE COURT LIGHTS
SKATE COURT LIGHTS	1100		2			2	20	5					6		550	SKATE COURT LIGHTS
SKATE COURT N.L.	400		2			2	20	7					8	2	550	SKATE COURT LIGHTS
SKATE COURT N.L.	400		2			1	20	9					10	1		SPARE
SKATE COURT N.L.	400		2			1	20	11					12	1		SPARE
POLE MTD RECP	360		2			1	20	13					14	1	500	LIGHTING CONTROLS
SPACE								15					16		915	SUMP PUMP
SPACE								17					18	2	915	---
8,500 WATTS (L.C.L.) X 1.25														10,625 WATTS		
1,830 WATTS (LARGEST MOTOR LOAD) X 1.25														2,288 WATTS		
OTHER LOAD														860 WATTS		
TOTAL														13,773 WATTS		TOTAL AMPS 57

NOTE: PROVIDE TYPEWRITTEN CIRCUIT DIRECTORY LOCATED ON THE FACE OR INSIDE OF THE PANEL DOOR PER N.E.C. 384-13.