

BORCHARD PARK SKATEPARK

PROJECT CLIENT

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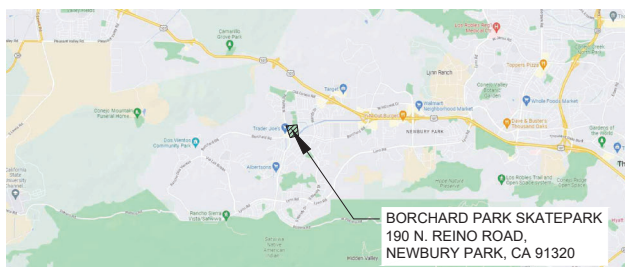
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VICINITY MAP**LOCATION MAP****SCOPE OF WORK**

THE BORCHARD SKATEPARK RENOVATION PROJECT LOCATED AT 190 N. REINO ROAD IN NEWBURY PARK (APN 6680-020-825) PROPOSES THE DEMOLITION OF THE EXISTING 10,000 SQUARE FOOT SKATEPARK AND REPLACE WITH 20,000 SQUARE FOOT SKATEPARK; THE SCOPE ALSO INCLUDES THE INSTALLATION OF FOUR (4) NEW LIGHT POLES OF 50' HEIGHT WITH A TOTAL OF SIXTEEN (16) LIGHT FIXTURE HEADS, NEW GROUND MOUNTED ELECTRICAL EQUIPMENT, FOUR (4) SHADE STRUCTURES OF 14'-4" HEIGHT, PICNIC AREA WITH APPROXIMATELY TWENTY (20) SEATS, A SECURITY SYSTEM, AND SEATING FOR APPROXIMATELY TWENTY (20) SPECTATORS. THE ADDITION OF APPROXIMATELY ONE HUNDRED (100) SHRUBS AND HARDSCAPING; TWENTY-SEVEN (27) PARKING SPACES TO BE REMOVED WITH A TOTAL OF 257 TO REMAIN WITHIN THE EXISTING LOT.

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		(SHOTCRETE AND POOL COPING)			& PANEL SCHEDULES			NEW WORK
18.	SP-11.2	STANDARD DETAILS (METALS)	37.	E300	OVERALL SITE LIGHTING PLAN	52.	E600	ELECTRICAL DETAILS
19.	SP-12.0	SKATEPARK DETAILS				53.	E601	ELECTRICAL DETAILS

ABBREVIATIONS

@	AT	HORIZ.	HORIZONTAL	TC	TOP OF CURB
ALT.	ALTERNATE	I.D.	INSIDE DIAMETER	TD	TOP OF DRAIN
BETW.	BETWEEN	O.D.	OUTER DIAMETER	THK.	THICK
BOT.	BOTTOM	INV. EL.	INVERT ELEVATION	TF	TOP OF FENCE
CL	CENTERLINE	LF	LINEAR FEET	TW	TOP OF WALL
CG	CURB AND GUTTER	LM	LINEAR METER	TYP.	TYPICAL
CJ	COLD JOINT	MAX.	MAXIMUM	VD	V-DRAIN
CONC.	CONCRETE	MIN.	MINIMUM	VERT.	VERTICAL
DD	DECK DRAIN	(N)	NEW	W/	WITH
Ø	DIAMETER	N/A	NOT APPLICABLE		
EA.	EACH	N.I.C.	NOT IN CONTRACT		
EJ	EXPANSION JOINT	N.T.S.	NOT TO SCALE		
(E)	EXISTING	O.C.	ON CENTER		
FG	FINISH GRADE	RAD.	RADIUS		
FS	FINISH SURFACE	REBAR	STEEL REINFORCEMENT		
GALV.	GALVANIZED	RE	RIM ELEVATION		
HP	HIGH POINT	TP	TANGENT POINT		

SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SKATEPARK STRUCTURE		TURNDOWN WALL, DETAIL 7/SP11.0
	COLD JOINT (CJ), DETAIL 4/SP11.0		SKATEPARK STRUCTURE SHOTCRETE, 4,000 P.S.I. 6" THICK WITH #3 REINFORCEMENT @ 12" O.C.
	METAL EDGING, SEE METALS MATERIALS PLAN		CAST IN PLACE CONCRETE, 4,000 P.S.I. 6" THICK WITH #3 REINFORCEMENT @ 12" O.C.
	CANTILEVER METAL EDGING, SEE METALS MATERIALS PLAN		SKATEPARK STRUCTURE FLATWORK, 4,000 P.S.I. 6" THICK WITH #3 REINFORCEMENT @ 18" O.C.
	BLEND ZONE, BLEND BETWEEN MULTIPLE FEATURES.		PEDESTRIAN WALKWAY AND DRAINAGE 10" O.C. CONCRETE, 4,000 P.S.I. 6" THICK WITH #3 REINFORCEMENT @ 24" O.C.
	HORIZONTAL LAYOUT BENCHMARK		VEHICULAR DRIVEWAY CONCRETE, 4,000 P.S.I. 6" THICK WITH #4 REINFORCEMENT @ 18" O.C.
	MEET FLUSH WITH PEDESTRIAN CONCRETE		SUBBASE, 4" THICK, COMPACT TO 95% MIN. RELATIVE COMPACTION, REFER TO THE GEOTECHNICAL REPORT
	SPOT ELEVATION		SUBGRADE, COMPACT TO A MINIMUM OF 95% RELATIVE COMPACTION, REFER TO THE GEOTECHNICAL REPORT
	RIDGELINE		
	SURFACE FLOW DIRECTION, SLOPE MIN. 1.0% UNLESS SHOWN OTHERWISE.		
	DECK DRAIN, SEE DETAIL 17/SP11.1		
	S SCHEDULE 40 PVC STORM DRAINLINE SLOPE AT 1.5% UNLESS SHOWN OTHERWISE.		
	SAWCUT, DETAIL 5/SP11.0		
	EXPANSION JOINT (EJ), DETAIL 6/SP11.0		
	THICKENED EDGE, DETAIL 3/SP11.0		

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PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

SHEET TITLE:
COVER SHEET

SHEET NUMBER

SP-1.0

GENERAL CONSTRUCTION NOTES

A. GENERAL NOTES

- 1. WRITTEN DIMENSIONS ARE TO TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY CITY ENGINEER OF ANY DISCREPANCIES FOUND IN THE FIELD.
- 2. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
- 3. ALL SKATEPARK STRUCTURE CONCRETE AND SHOTCRETE SHALL BE MINIMUM 4000 PSI.
- 4. ALL EDGES AND CORNERS OF CONCRETE FEATURES SHALL HAVE 1/4" RADII, UNLESS NOTED OTHERWISE.
- 5. CONTRACTOR SHALL VERIFY AND COORDINATE FINISH GRADES AND CURB EDGES WITH RELATED SITE IMPROVEMENTS. CONTRACTOR SHALL IMMEDIATELY REPORT ANY CONFLICTS OR DISCREPANCIES TO THE CITY ENGINEER.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER HANDLING OF STORM WATER, INCLUDING DEWATERING, AND DEBRIS REMOVAL FROM THE PROJECT SITE, AS NEEDED, DURING CONSTRUCTION AND PRIOR TO PLACING ANY CONCRETE.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING GROUND ELEVATIONS, PIPE INVERTS, AND OVERALL TOPOGRAPHY OF THE SITE, AS WELL AS, ALL SITE DIMENSIONS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY ENGINEER IN WRITING OF ANY DIFFERENCES IN TOPOGRAPHY OR SITE DIMENSION THAT DIFFER FROM THOSE SHOWN ON THE PLANS.
- 8. ALL SKATEPARK STRUCTURE GRADING, COMPACTION, AND EARTHWORK SHALL COMPLY WITH THE RECOMMENDATIONS AND REQUIREMENTS OF THE GEOTECHNICAL REPORT.
- 9. ALL REINFORCING BARS SHALL HAVE A 24" OVERLAP; TYP. SEE SPECIFICATIONS.
- 10. CONTRACTOR IS ONLY RESPONSIBLE FOR PLACING AGGREGATE BASE A MINIMUM DISTANCE OF FOUR (4) VERTICAL FEET UP ALL TRANSITIONS AS MEASURED FROM THE BASE TANGENT POINT. THIS VARIANCE ONLY APPLIES TO TRANSITIONS THAT APPROACH NEAR VERTICAL CONDITIONS ABOVE FOUR (4) VERTICAL FEET FROM THE BASE TANGENT POINT ELEVATION. SHOTCRETE APPLIED IN CONDITIONS WITHOUT THE AGGREGATE BASE SHALL BE PER THE SPECIFIED THICKNESS. NO ADDITIONAL SHOTCRETE SHALL BE REQUIRED AS THE SUBGRADES WILL BE GRADED TO THE ELEVATIONS OF THE AGGREGATE BASE.
- 11. ALL RADIAL SHOTCRETE APPLICATIONS SHALL HAVE A RESPECTIVE TEMPLATE READY AND IN PLACE PRIOR TO SHOTCRETE PLACEMENT. SEE SHOTCRETE TEMPLATE DETAIL.
- 12. REFER TO CITY OF THOUSAND OAKS COMPLETE ROAD STANDARDS BOOKLET, SECTION 5, FOR ALL PROJECT PEDESTRIAN ACCESS RAMP STANDARDS AND DETAILS.
- 13. REFER TO CITY OF THOUSAND OAKS COMPLETE ROAD STANDARDS BOOKLET, PLATE NO. 8-2 AND 8-4, FOR ALL PROJECT STANDARD CURB & GUTTER AND V-DITCH (CROSS) GUTTER DETAILS.

B. EXCAVATIONS

- 1. ALL EXCAVATIONS AND SUBGRADE PREPARATIONS SHALL BE IN CONFORMANCE WITH THE PROJECT GEOTECHNICAL REPORT.
- 2. CONTRACTOR SHALL CAREFULLY EXCAVATE ALL MATERIALS NECESSARY OF WHATEVER NATURE, FOR CONSTRUCTION OF THE WORK. ANY MATERIAL OF AN UNSUITABLE OR DELETERIOUS NATURE DISCOVERED BELOW THE BOTTOMS OF THE FOUNDATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 3. FINISH GRADING SHALL BE ACCOMPLISHED IN SUCH A MANNER AS TO SLOPE GRADE (MINIMUM OF 3%) AWAY FROM FOUNDATIONS. GRADING SHALL ALSO ELIMINATE ANY POTENTIAL PONDING NEAR FOUNDATIONS AND TRIPPING HAZARDS.

C. SHOTCRETE

- 1. ALL SHOTCRETE SHALL BE A MINIMUM 6-INCH THICK UNLESS SHOWN OTHERWISE.
- 2. AT A MINIMUM, SHOTCRETE SHALL BE USED IN ALL LOCATIONS INDICATED IN THE PLANS AND DETAILS. ALL SHOTCRETE WORK SHALL CONFORM TO THE SPECIFICATION FOR MATERIALS, PROPORTIONING, AND APPLICATION OF SHOTCRETE (ACI506.2-95).
- 3. ALL SKATE PARK SHOTCRETE SHALL HAVE A HARD TROWEL FINISH UNLESS NOTED OTHERWISE.

D. CONCRETE

- 1. ALL SKATEPARK CONCRETE SHALL HAVE A HARD TROWEL FINISH UNLESS NOTED OTHERWISE.
- 2. ALL SKATEPARK STRUCTURE CONCRETE SHALL BE A MINIMUM 6-INCH THICK UNLESS SHOWN OTHERWISE.
- 3. ALL SKATEPARK CONCRETE SHALL BE READY MIXED CONFORMING WITH ASTM C-94, 4" MAX. SLUMP, AND ATTAIN A MINIMUM OF 4000 p.s.i. COMPRESSIVE STRENGTH AT 28 DAYS:
- 4. CONCRETE FOOTINGS AND PADS MAY BE POURED AGAINST NEAT EXCAVATIONS.
- 5. CURING OF CONCRETE SHALL BE PER THE SKATE PARK STRUCTURE CONCRETE PAVING 02520 AND SHOTCRETE 03370 SPECIFICATIONS SECTIONS.
- 6. ALL REINFORCING BARS, ANCHOR BOLTS AND CONCRETE INSERTS SHALL BE SECURED IN POSITION AND INSPECTED BY SPECIAL INSPECTOR PRIOR TO PLACING CONCRETE.
- 7. ALL CONCRETE FORM WORK SHALL REMAIN IN PLACE UNTIL CONCRETE REACHES 70 PERCENT OF DESIGN CAPACITY AND NO EARLIER THAN (7) SEVEN DAYS SUBSEQUENT TO PLACEMENT.
- 8. ALL CONCRETE SHALL BE PROTECTED BY CONTRACTOR FOR ANY DAMAGES OR GRAFFITI.

E. REINFORCEMENT

- 1. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A-615 GRADE 40.
- 2. ALL REINFORCING BARS SHALL HAVE A 24-INCH OVERLAP, TYP.; SEE SPECIFICATIONS.
- 3. ALL REINFORCING IN CONCRETE SHALL BE CONTINUOUS OR LAPPED IN ACCORDANCE WITH ACI 318.
- 4. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT FROM DISPLACING DUE TO FORM WORK, CONSTRUCTION, OR CONCRETE PLACEMENT OPERATIONS. LOCATE AND SUPPORT REINFORCING BY METAL CHAIRS, RUNNER, BOLSTERS, SPACERS, AND HANGERS AT A MAXIMUM 3 FOOT SPACING.
- 5. ALL REINFORCEMENT TO BE WELDED SHALL BE A706 GRADE 60.
- 6. ALL REINFORCEMENT SHALL BE INSPECTED BY SPECIAL INSPECTOR PRIOR TO ANY PLACEMENT OF CONCRETE OR SHOTCRETE.



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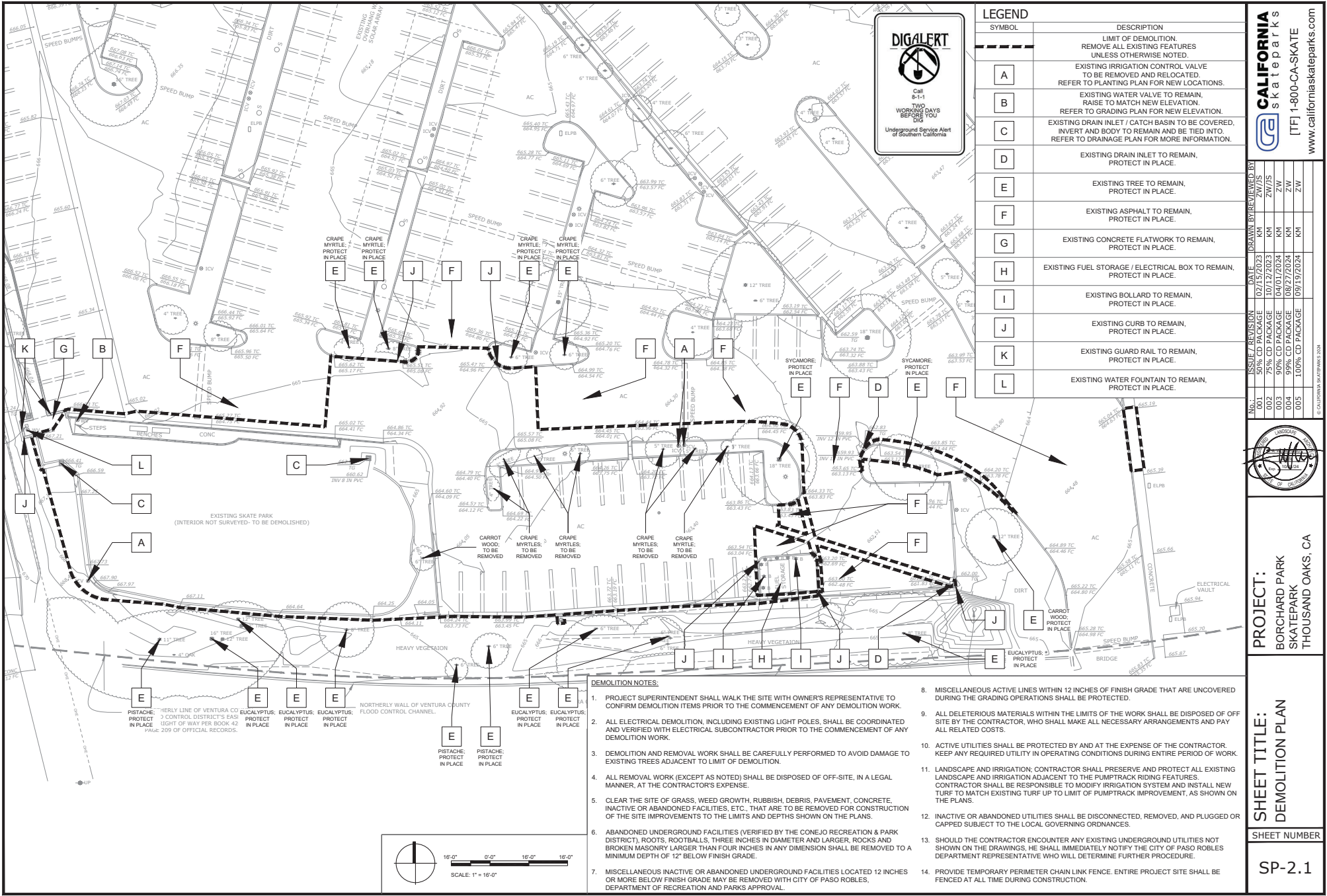


SHEET TITLE:
GENERAL NOTES

SHEET NUMBER

PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

SP-1.1



SYMBOL	DESCRIPTION
	LIMIT OF DEMOLITION. REMOVE ALL EXISTING FEATURES UNLESS OTHERWISE NOTED.
A	EXISTING IRRIGATION CONTROL VALVE TO BE REMOVED AND RELOCATED. REFER TO PLANTING PLAN FOR NEW LOCATIONS.
B	EXISTING WATER VALVE TO REMAIN. RAISE TO MATCH NEW ELEVATION. REFER TO GRADING PLAN FOR NEW ELEVATION.
C	EXISTING DRAIN INLET / CATCH BASIN TO BE COVERED. INVERT AND BODY TO REMAIN AND BE TIED INTO. REFER TO DRAINAGE PLAN FOR MORE INFORMATION.
D	EXISTING DRAIN INLET TO REMAIN, PROTECT IN PLACE.
E	EXISTING TREE TO REMAIN, PROTECT IN PLACE.
F	EXISTING ASPHALT TO REMAIN, PROTECT IN PLACE.
G	EXISTING CONCRETE FLATWORK TO REMAIN, PROTECT IN PLACE.
H	EXISTING FUEL STORAGE / ELECTRICAL BOX TO REMAIN, PROTECT IN PLACE.
I	EXISTING BOLLARD TO REMAIN, PROTECT IN PLACE.
J	EXISTING CURB TO REMAIN, PROTECT IN PLACE.
K	EXISTING GUARD RAIL TO REMAIN, PROTECT IN PLACE.
L	EXISTING WATER FOUNTAIN TO REMAIN, PROTECT IN PLACE.

- DEMOLITION NOTES:**
- PROJECT SUPERINTENDENT SHALL WALK THE SITE WITH OWNER'S REPRESENTATIVE TO CONFIRM DEMOLITION ITEMS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK.
 - ALL ELECTRICAL DEMOLITION, INCLUDING EXISTING LIGHT POLES, SHALL BE COORDINATED AND VERIFIED WITH ELECTRICAL SUBCONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK.
 - DEMOLITION AND REMOVAL WORK SHALL BE CAREFULLY PERFORMED TO AVOID DAMAGE TO EXISTING TREES ADJACENT TO LIMIT OF DEMOLITION.
 - 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, 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 CONEJO RECREATION & PARK DISTRICT), ROOTS, ROOTBALLS, 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 CITY OF PASO ROBLES, DEPARTMENT OF RECREATION AND PARKS 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 CONDITIONS DURING ENTIRE PERIOD OF WORK.
 - LANDSCAPE AND IRRIGATION: CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING LANDSCAPE AND IRRIGATION ADJACENT TO THE PUMPTRACK RIDING FEATURES. CONTRACTOR SHALL BE RESPONSIBLE TO MODIFY IRRIGATION SYSTEM AND INSTALL NEW TURF TO MATCH EXISTING TURF UP TO LIMIT OF PUMPTRACK IMPROVEMENT, AS SHOWN ON THE PLANS.
 - INACTIVE OR ABANDONED UTILITIES SHALL BE DISCONNECTED, REMOVED, AND PLUGGED 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 CITY OF PASO ROBLES DEPARTMENT REPRESENTATIVE WHO WILL DETERMINE FURTHER PROCEDURE.
 - PROVIDE TEMPORARY PERIMETER CHAIN LINK FENCE. ENTIRE PROJECT SITE SHALL BE FENCED AT ALL TIME DURING CONSTRUCTION.

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PROJECT:

BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

SHEET TITLE:

DEMOLITION PLAN

SHEET NUMBER

SP-2.1

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001 / 50% CD PACKAGE / 07/15/2023 / KM

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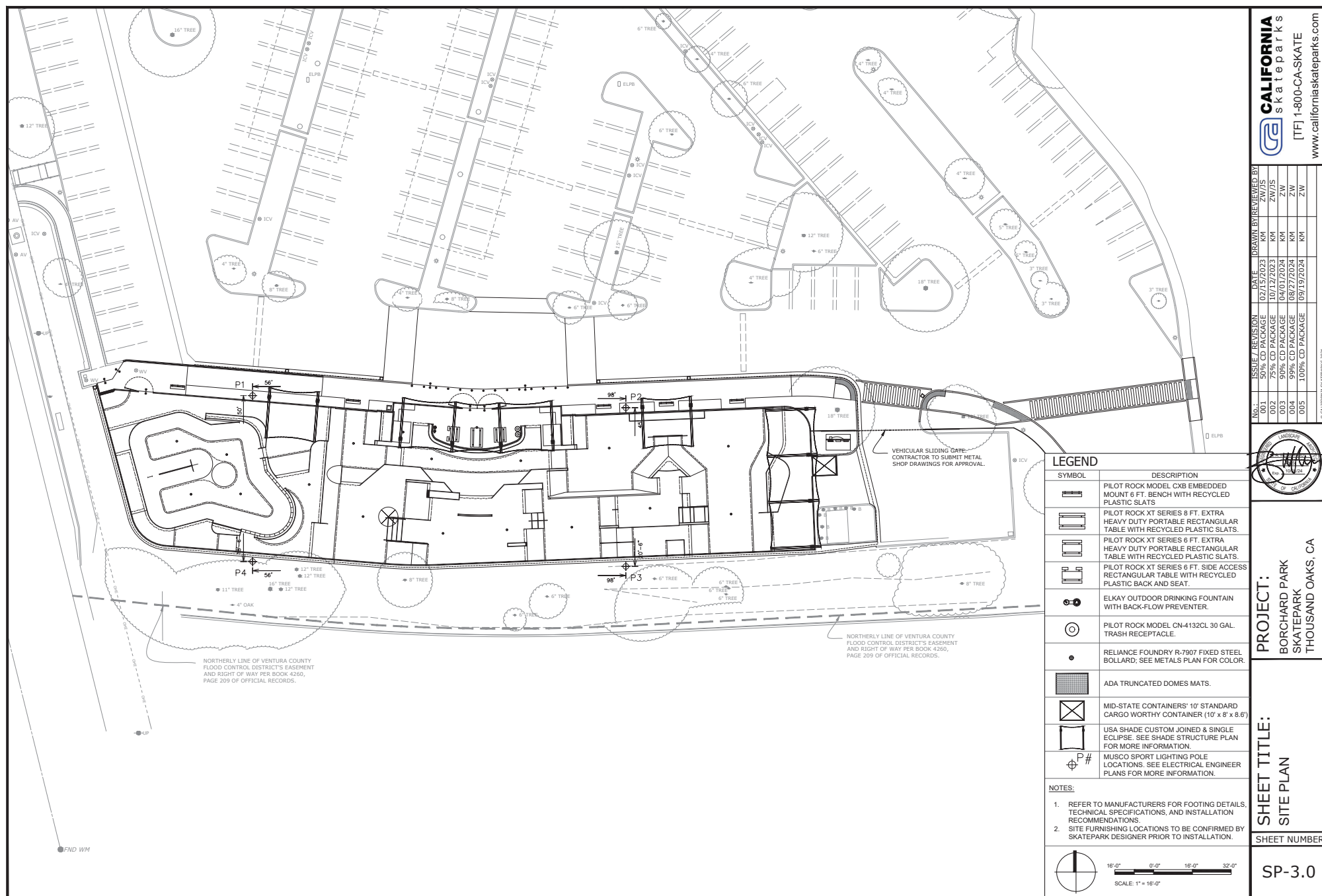
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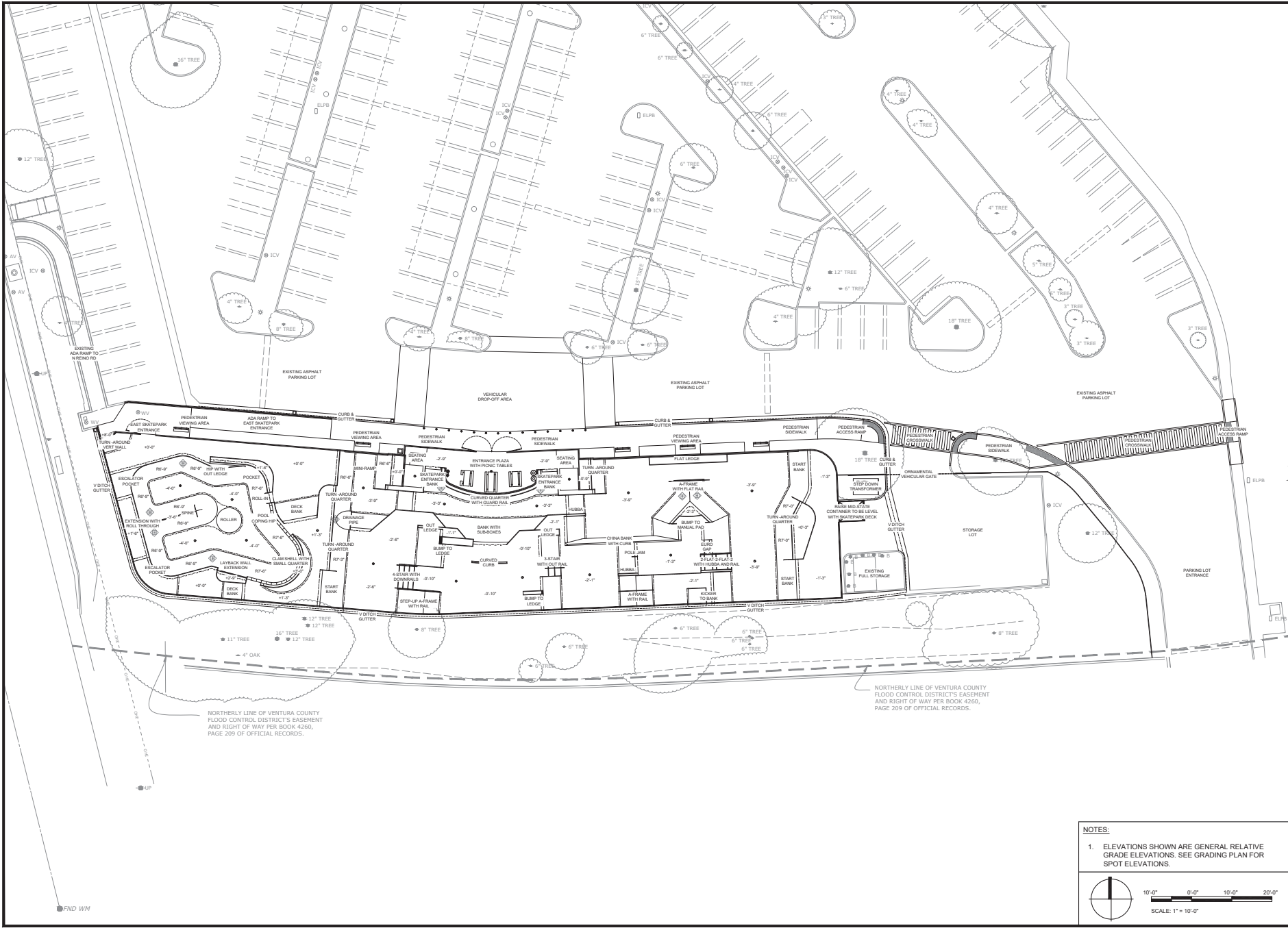
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005 / 100% CD PACKAGE / 09/19/2024 / KM

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NOTES:
1. ELEVATIONS SHOWN ARE GENERAL RELATIVE GRADE ELEVATIONS. SEE GRADING PLAN FOR SPOT ELEVATIONS.

10'-0" 8'-0" 12'-0" 20'-0"
SCALE: 1" = 10'-0"

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BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

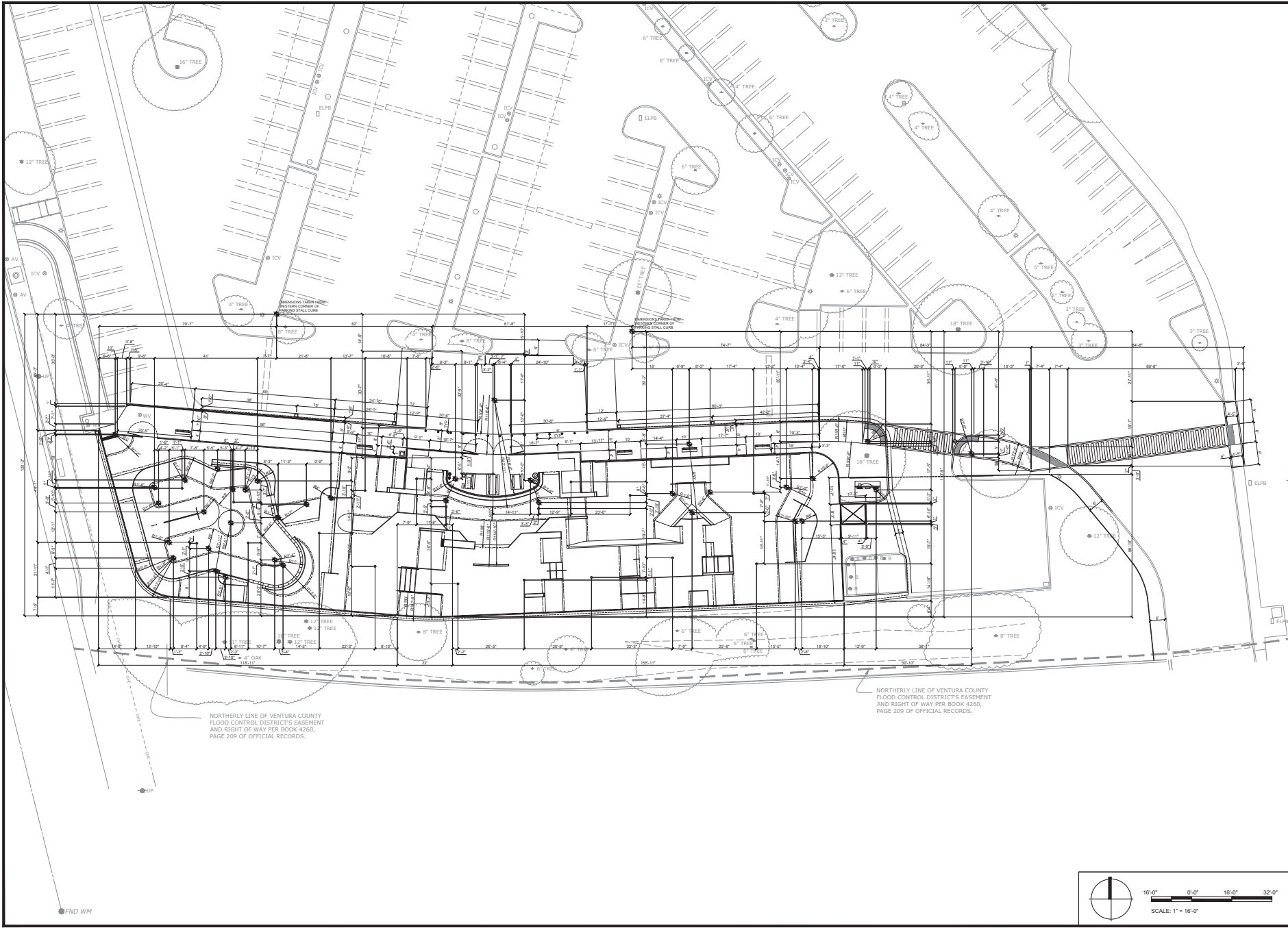
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FEATURE PLAN

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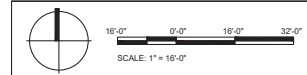
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PAGE 209 OF OFFICIAL RECORDS

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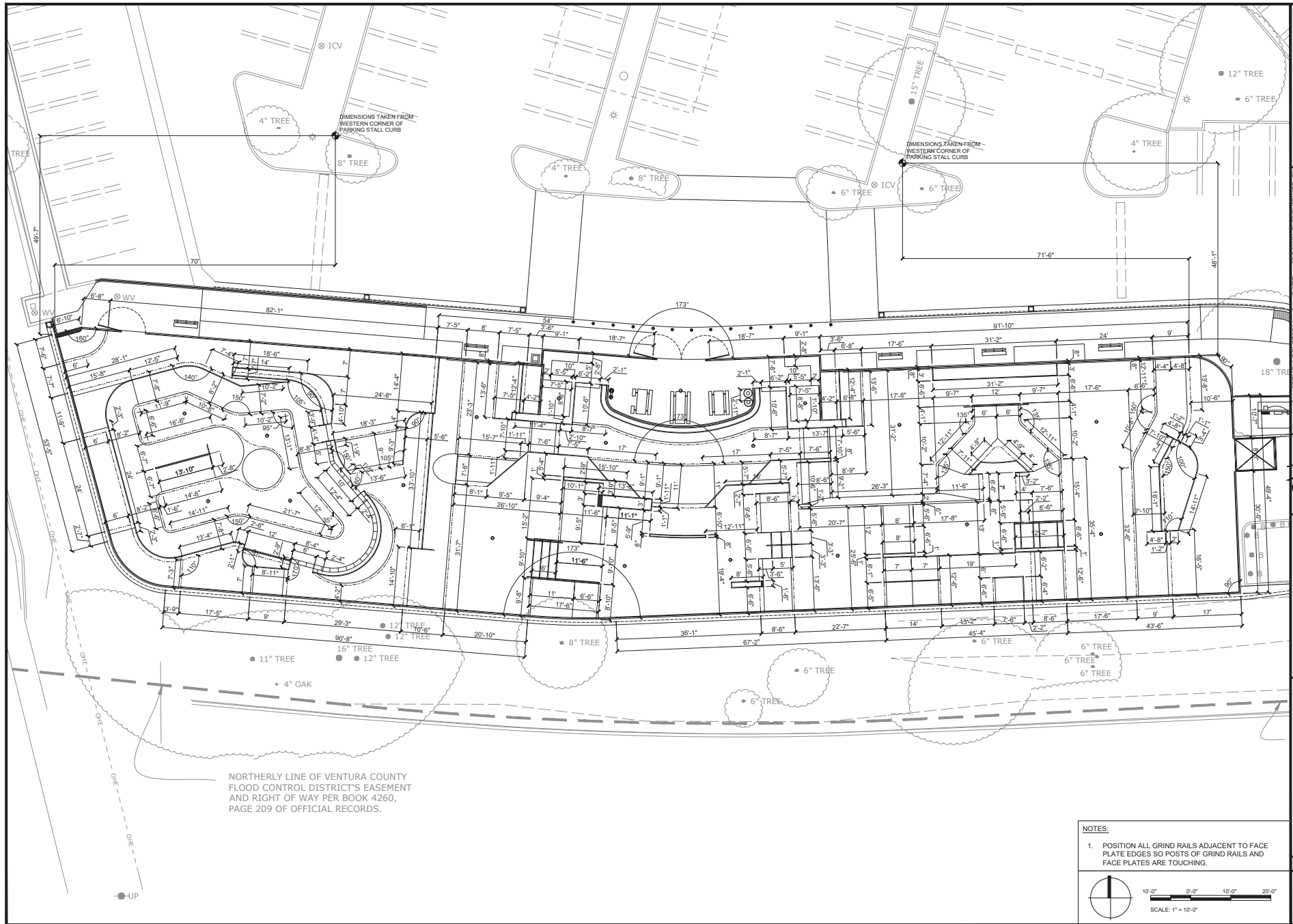
SHEET TITLE:
SITE AND RADIUS
LAYOUT PLAN

SHEET NUMBER
SP-5.0

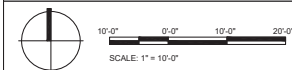
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SKATEPARK
THOUSAND OAKS, CA

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- NOTES:
1. POSITION ALL GRIND RAILS ADJACENT TO FACE PLATE EDGES SO POSTS OF GRIND RAILS AND FACE PLATES ARE TOUCHING.



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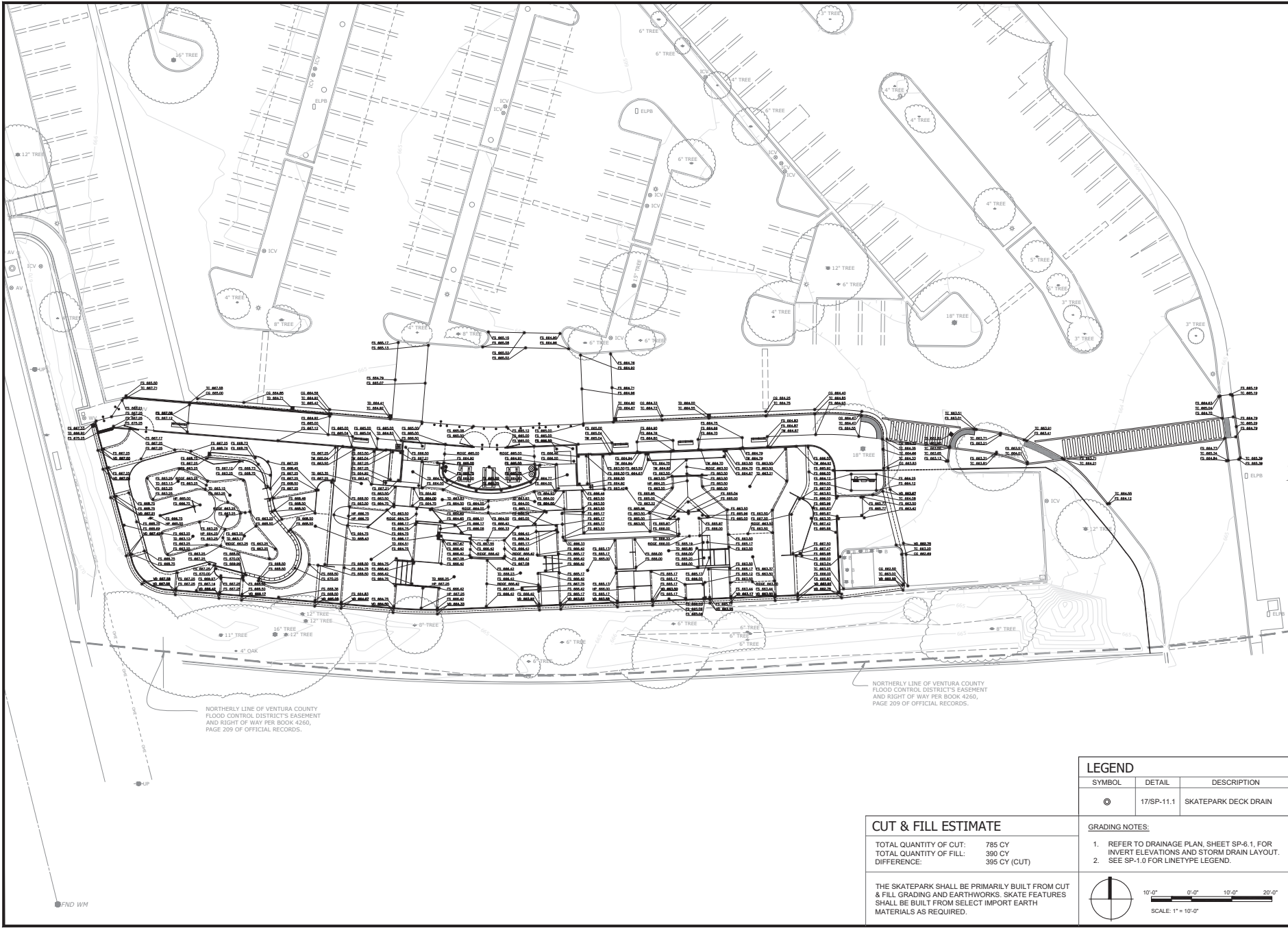


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BORCHARD PARK
SKATEPARK
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SHEET TITLE:
SKATEPARK
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PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

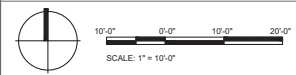
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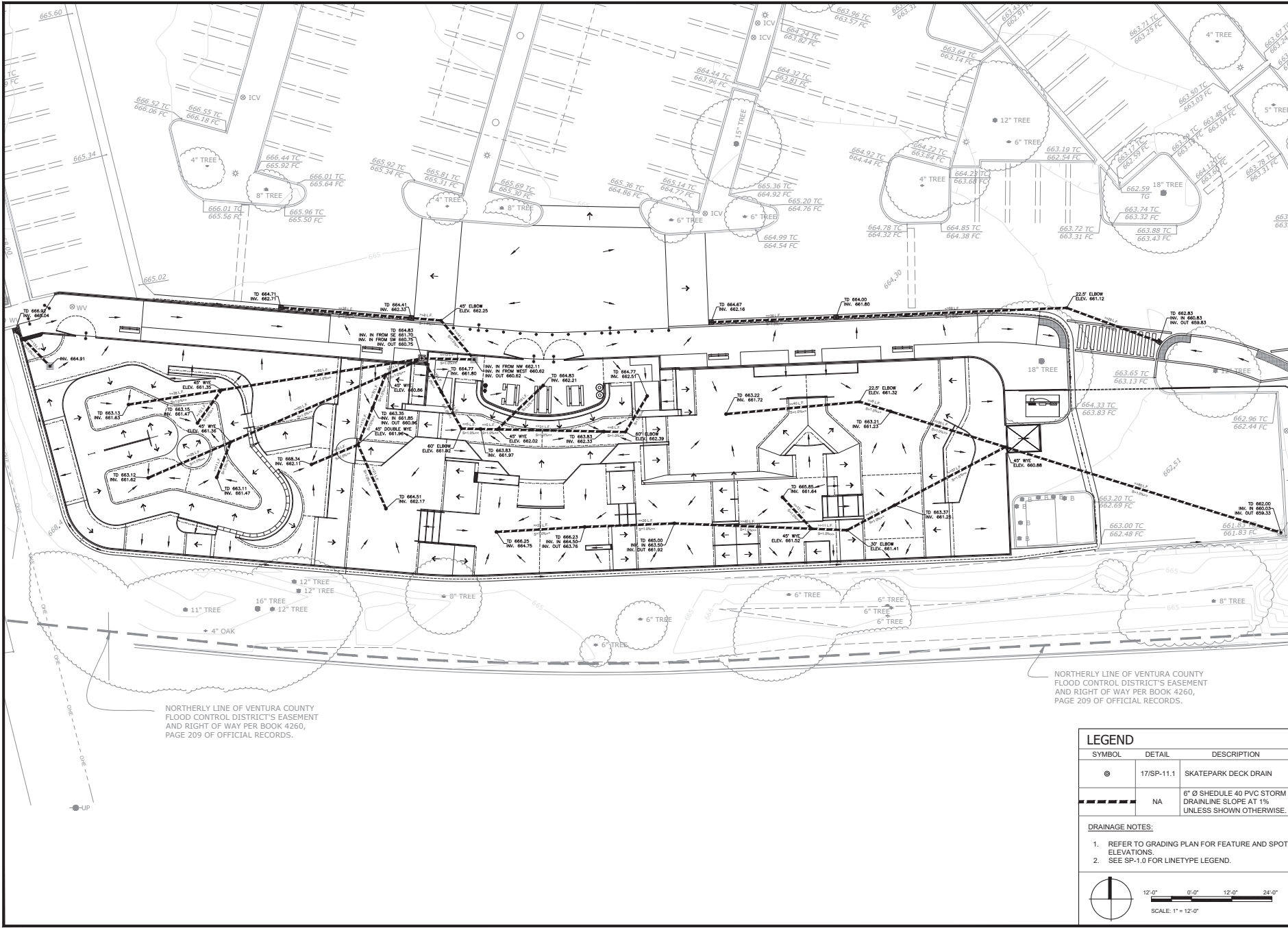
SHEET NUMBER:
SP-6.0

CUT & FILL ESTIMATE	
TOTAL QUANTITY OF CUT:	785 CY
TOTAL QUANTITY OF FILL:	390 CY
DIFFERENCE:	395 CY (CUT)
THE SKATEPARK SHALL BE PRIMARILY BUILT FROM CUT & FILL GRADING AND EARTHWORKS. SKATE FEATURES SHALL BE BUILT FROM SELECT IMPORT EARTH MATERIALS AS REQUIRED.	

LEGEND		
SYMBOL	DETAIL	DESCRIPTION
	17/SP-11.1	SKATEPARK DECK DRAIN

- GRADING NOTES:**
- REFER TO DRAINAGE PLAN, SHEET SP-6.1, FOR INVERT ELEVATIONS AND STORM DRAIN LAYOUT.
 - SEE SP-1.0 FOR LINETYPE LEGEND.





NORTHERLY LINE OF VENTURA COUNTY
FLOOD CONTROL DISTRICT'S EASEMENT
AND RIGHT OF WAY PER BOOK 4260,
PAGE 209 OF OFFICIAL RECORDS.

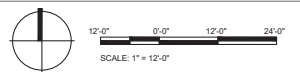
NORTHERLY LINE OF VENTURA COUNTY
FLOOD CONTROL DISTRICT'S EASEMENT
AND RIGHT OF WAY PER BOOK 4260,
PAGE 209 OF OFFICIAL RECORDS.

LEGEND

SYMBOL	DETAIL	DESCRIPTION
●	17/SP-11.1	SKATEPARK DECK DRAIN
---	NA	6" Ø SCHEDULE 40 PVC STORM DRAINLINE SLOPE AT 1% UNLESS SHOWN OTHERWISE.

DRAINAGE NOTES:

1. REFER TO GRADING PLAN FOR FEATURE AND SPOT ELEVATIONS.
2. SEE SP-1.0 FOR LINETYPE LEGEND.



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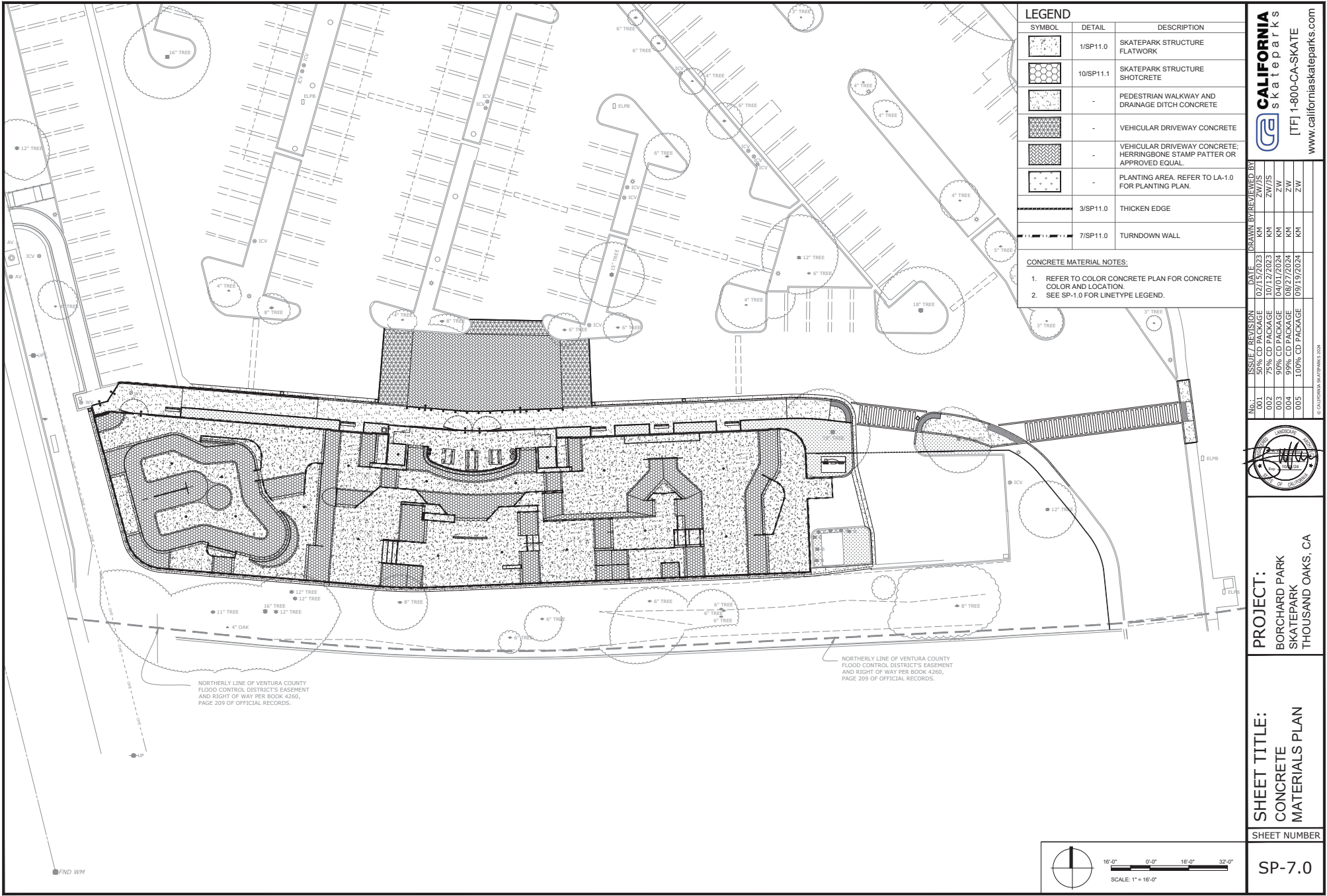


PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA


SHEET TITLE:
DRAINAGE PLAN

SHEET NUMBER

SP-6.1




LEGEND		
SYMBOL	DETAIL	DESCRIPTION
	1/SP11.0	SKATEPARK STRUCTURE FLATWORK
	10/SP11.1	SKATEPARK STRUCTURE SHOTCRETE
	-	PEDESTRIAN WALKWAY AND DRAINAGE DITCH CONCRETE
	-	VEHICULAR DRIVEWAY CONCRETE
	-	VEHICULAR DRIVEWAY CONCRETE; HERRINGBONE STAMP PATTERN OR APPROVED EQUAL
	-	PLANTING AREA. REFER TO LA-1.0 FOR PLANTING PLAN.
	3/SP11.0	THICKEN EDGE
	7/SP11.0	TURNDOWN WALL
CONCRETE MATERIAL NOTES:		
1. REFER TO COLOR CONCRETE PLAN FOR CONCRETE COLOR AND LOCATION.		
2. SEE SP-1.0 FOR LINETYPE LEGEND.		



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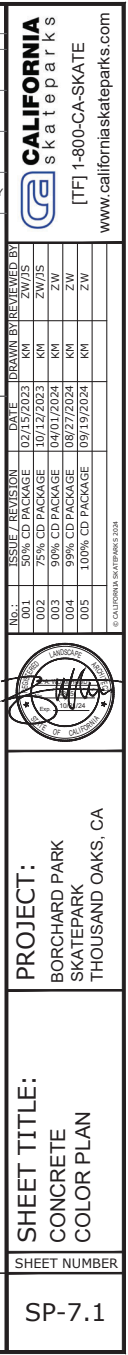
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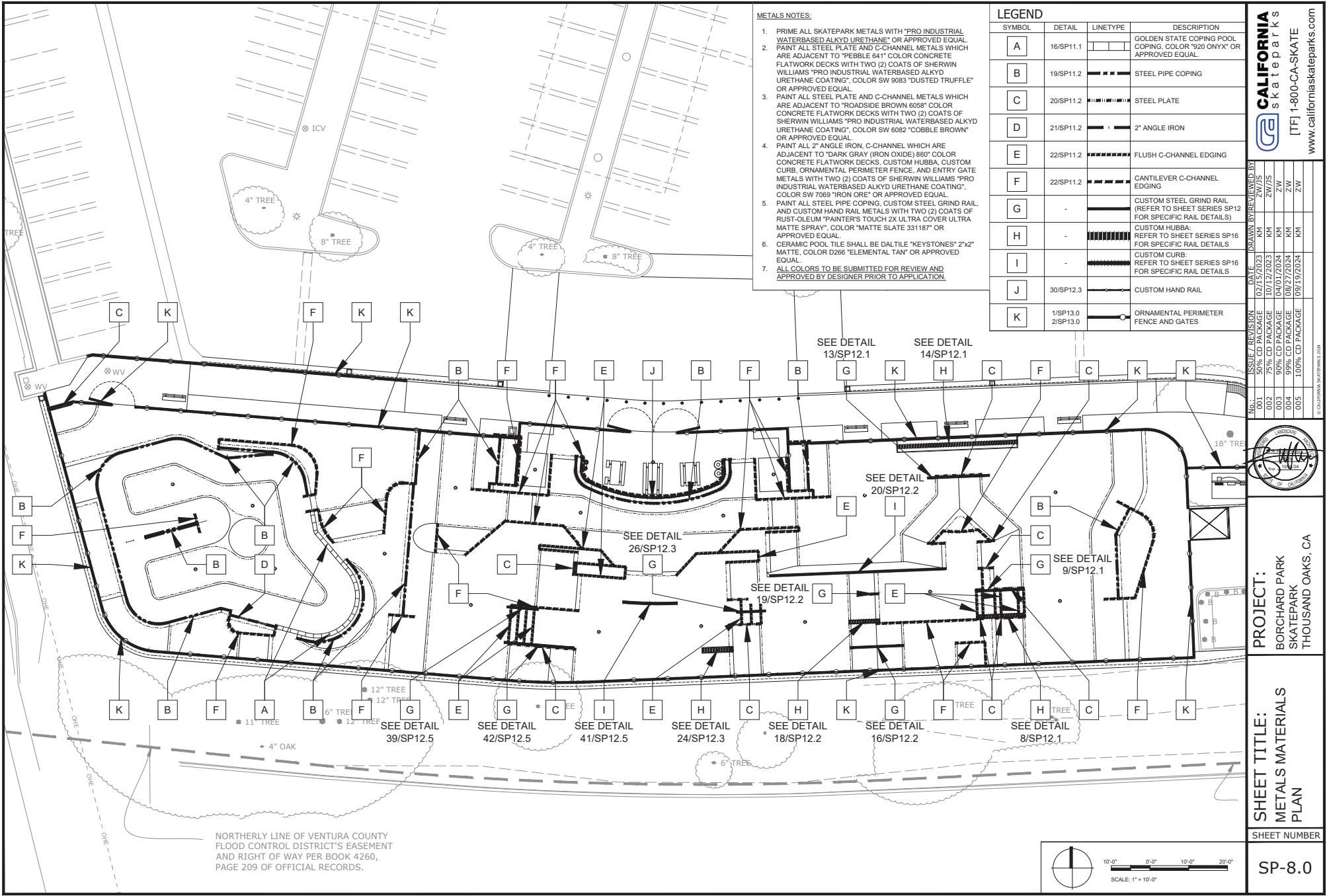


PROJECT:
BORCHART PARK
SKATEPARK
THOUSAND OAKS, CA

SHEET TITLE:
CONCRETE
MATERIALS PLAN

SHEET NUMBER
SP-7.0





- METALS NOTES:**
1. PRIME ALL SKATEPARK METALS WITH "PRO INDUSTRIAL WATERBASED ALKYD URETHANE" OR APPROVED EQUAL. PAINT ALL STEEL PLATE AND C-CHANNEL METALS WHICH ARE ADJACENT TO "PEBBLE 641" COLOR CONCRETE FLATWORK DECKS WITH TWO (2) COATS OF SHERWIN WILLIAMS "PRO INDUSTRIAL WATERBASED ALKYD URETHANE COATING", COLOR SW 9083 "DUSTED TRUFFLE" OR APPROVED EQUAL.
 2. PAINT ALL STEEL PLATE AND C-CHANNEL METALS WHICH ARE ADJACENT TO "ROADSIDE BROWN 6058" COLOR CONCRETE FLATWORK DECKS WITH TWO (2) COATS OF SHERWIN WILLIAMS "PRO INDUSTRIAL WATERBASED ALKYD URETHANE COATING", COLOR SW 6082 "COBBLE BROWN" OR APPROVED EQUAL.
 3. PAINT ALL 2" ANGLE IRON, C-CHANNEL WHICH ARE ADJACENT TO "DARK GRAY (IRON OXIDE) 860" COLOR CONCRETE FLATWORK DECKS, CUSTOM HUBBA, CUSTOM CURB, ORNAMENTAL PERIMETER FENCE, AND ENTRY GATE METALS WITH TWO (2) COATS OF SHERWIN WILLIAMS "PRO INDUSTRIAL WATERBASED ALKYD URETHANE COATING", COLOR SW 7069 "IRON ORE" OR APPROVED EQUAL.
 4. PAINT ALL STEEL PIPE COPING, CUSTOM STEEL GRIND RAIL AND CUSTOM HAND RAIL METALS WITH TWO (2) COATS OF RUST-OLEUM "PAINTER'S TOUCH 2X ULTRA COVER ULTRA MATTE SPRAY", COLOR "MATTE SLATE 331187" OR APPROVED EQUAL.
 5. CERAMIC POOL TILE SHALL BE DALTILE "KEYSTONES" 2"x2" MATTE, COLOR D266 "ELEMENTAL TAN" OR APPROVED EQUAL.
 6. ALL COLORS TO BE SUBMITTED FOR REVIEW AND APPROVED BY DESIGNER PRIOR TO APPLICATION.

LEGEND			
SYMBOL	DETAIL	LINETYPE	DESCRIPTION
A	16/SP11.1		GOLDEN STATE COPING POOL COPING, COLOR "920 ONYX" OR APPROVED EQUAL
B	19/SP11.2		STEEL PIPE COPING
C	20/SP11.2		STEEL PLATE
D	21/SP11.2		2" ANGLE IRON
E	22/SP11.2		FLUSH C-CHANNEL EDGING
F	22/SP11.2		CANTILEVER C-CHANNEL EDGING
G	-		CUSTOM STEEL GRIND RAIL (REFER TO SHEET SERIES SP12 FOR SPECIFIC RAIL DETAILS)
H	-		CUSTOM HUBBA (REFER TO SHEET SERIES SP16 FOR SPECIFIC RAIL DETAILS)
I	-		CUSTOM CURB (REFER TO SHEET SERIES SP16 FOR SPECIFIC RAIL DETAILS)
J	30/SP12.3		CUSTOM HAND RAIL
K	1/SP13.0 2/SP13.0		ORNAMENTAL PERIMETER FENCE AND GATES

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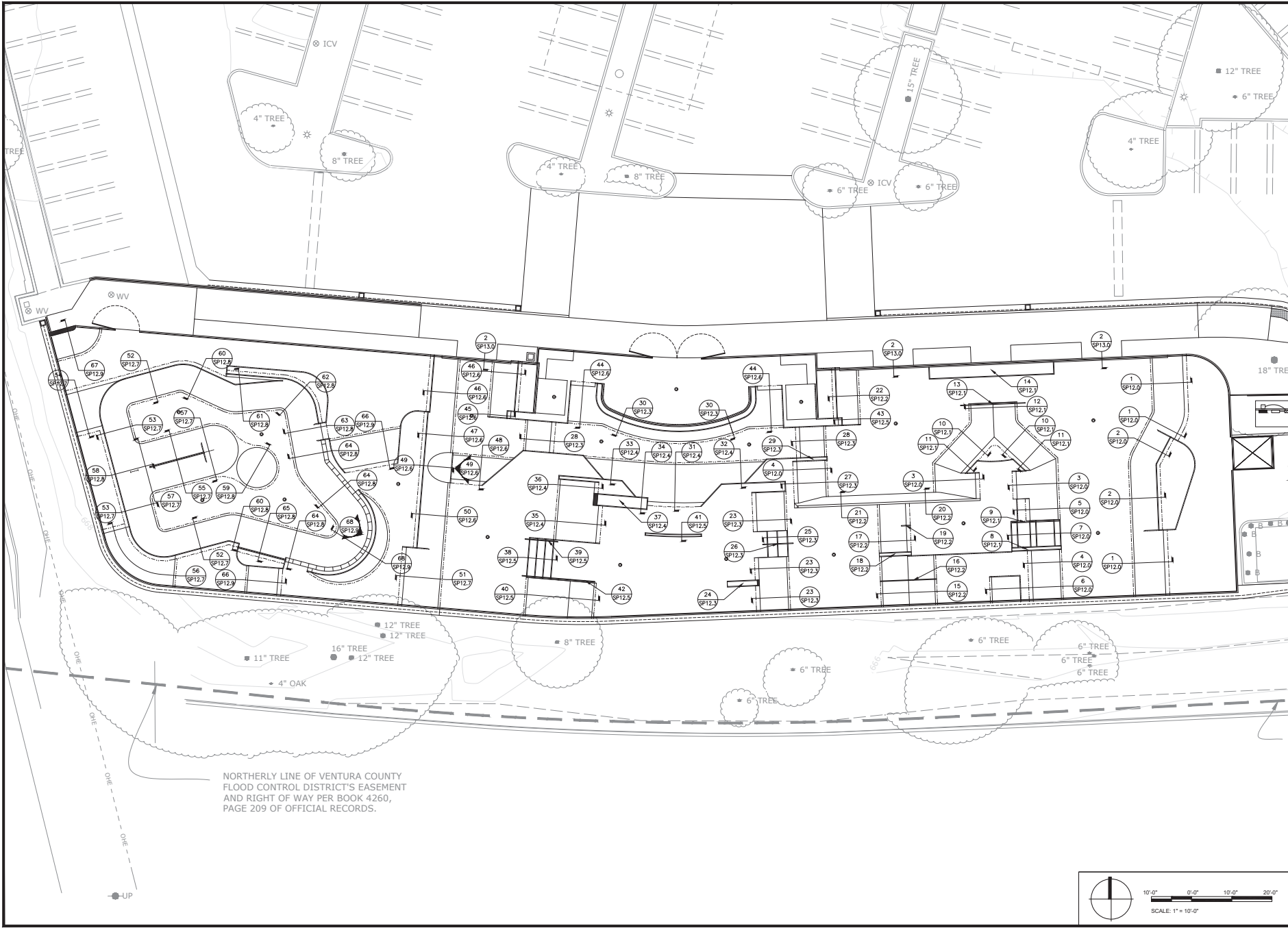
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PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

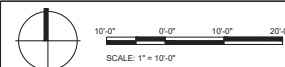
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METALS MATERIALS
PLAN

SHEET NUMBER
SP-8.0

NORTHERLY LINE OF VENTURA COUNTY FLOOD CONTROL DISTRICT'S EASEMENT AND RIGHT OF WAY PER BOOK 4260, PAGE 209 OF OFFICIAL RECORDS.



NORTHERLY LINE OF VENTURA COUNTY
FLOOD CONTROL DISTRICT'S EASEMENT
AND RIGHT OF WAY PER BOOK 4260,
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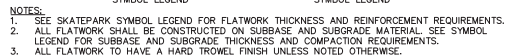
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PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA



SHEET TITLE:
CONSTRUCTION PLAN

SHEET NUMBER
SP-10.0



SKATEPARK STRUCTURE FLATWORK

$$2'' = 1' - 0'' \quad (1)$$

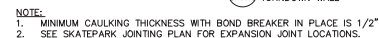

2"=1'-0" (2)


$$2'' = 1' - 0'' \quad (3)$$


SKATEPARK FLATWORK COLD JOINT (CJ)

$$2'' = 1' - 0'' \quad (4)$$


SKATEPARK STRUCTURE SAWCUT

$$2'' = 1' - 0'' \quad (5)$$


SKATEPARK EXPANSION JOINT (EJ)

$$2'' = 1' - 0'' \quad (6)$$


CAST IN PLACE TURNDOWN WALL

$$1'' = 1' - 0'' \quad (7)$$

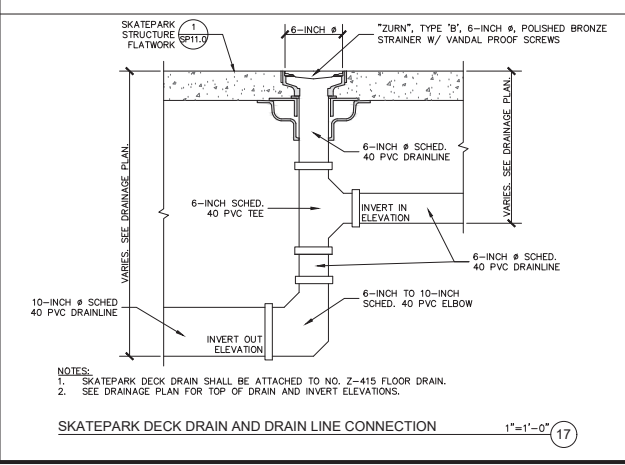
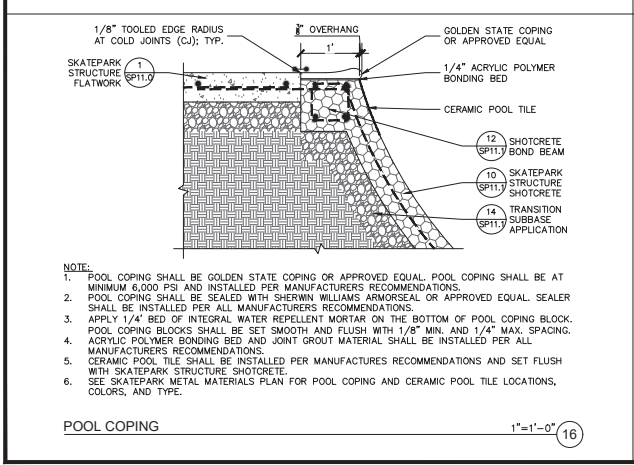
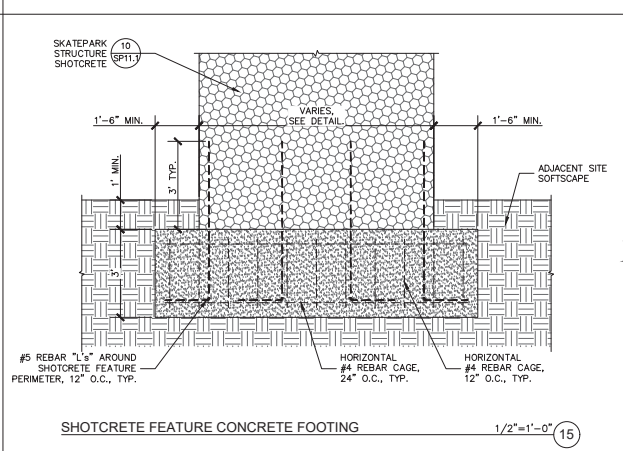
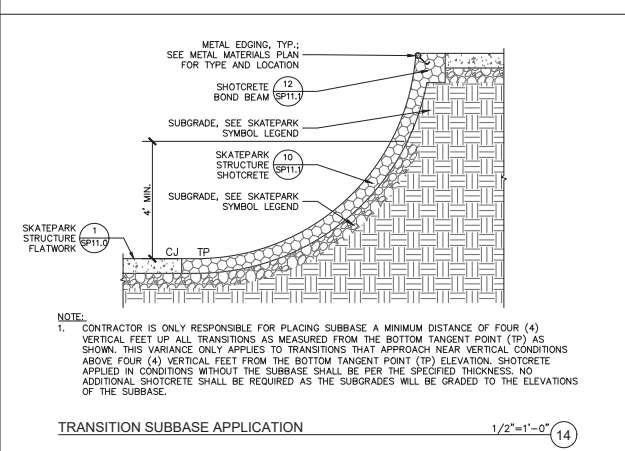
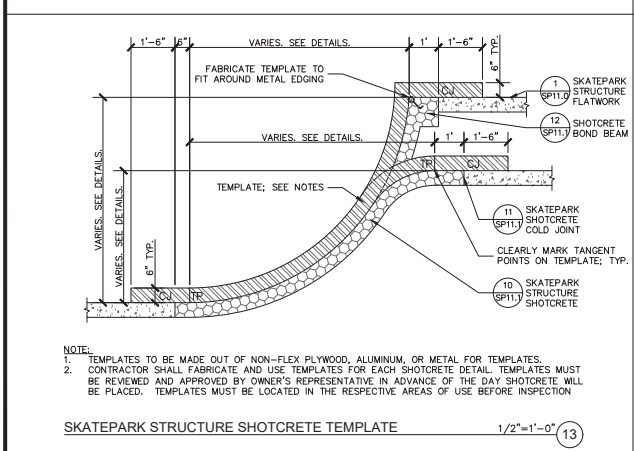
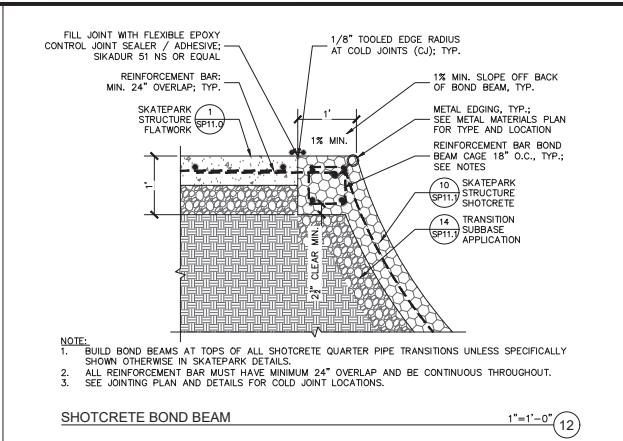
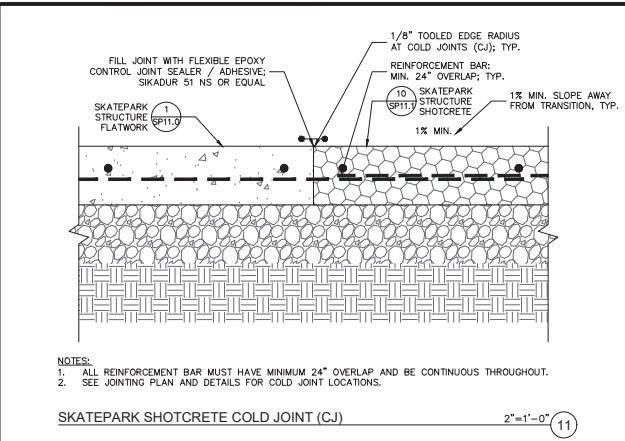
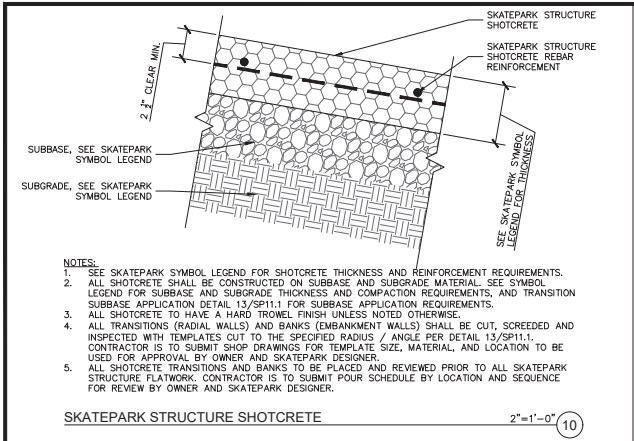

CAST IN PLACE LEDGE

1"=1'-0" (8)



CAST IN PLACE STAIR SET

$$1'' = 1' - 0'' \quad (9)$$
[illegible]



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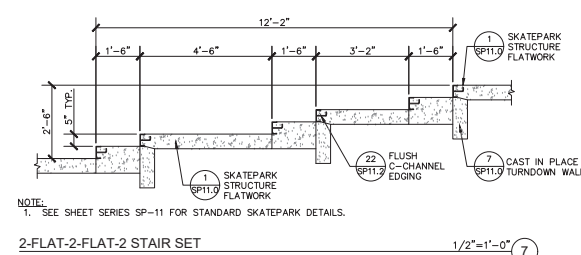
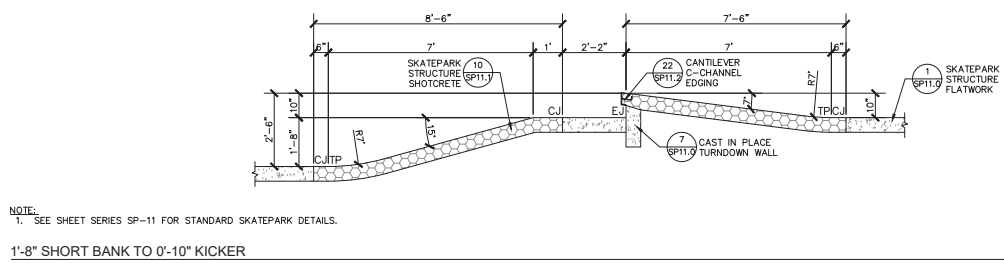
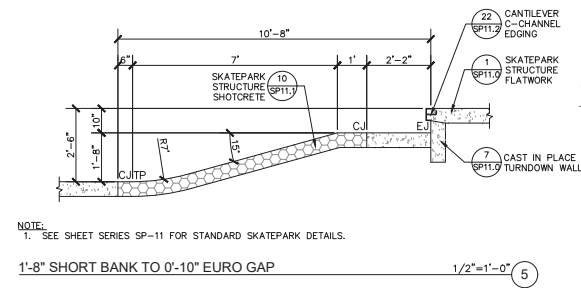
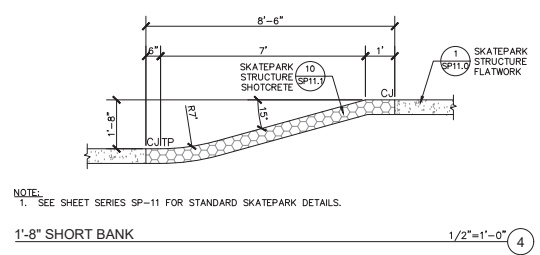
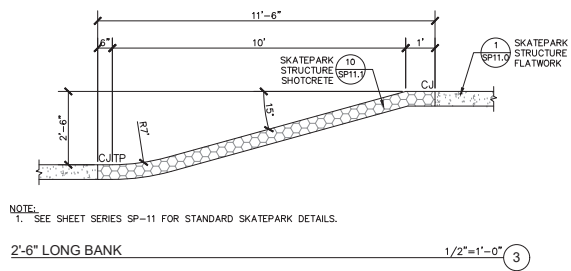
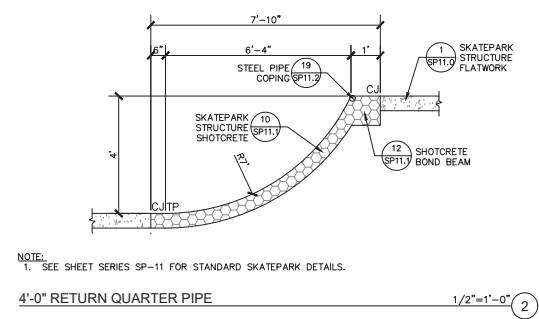
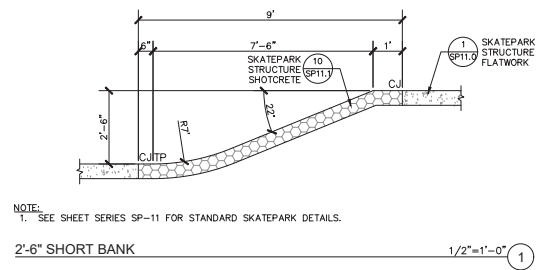
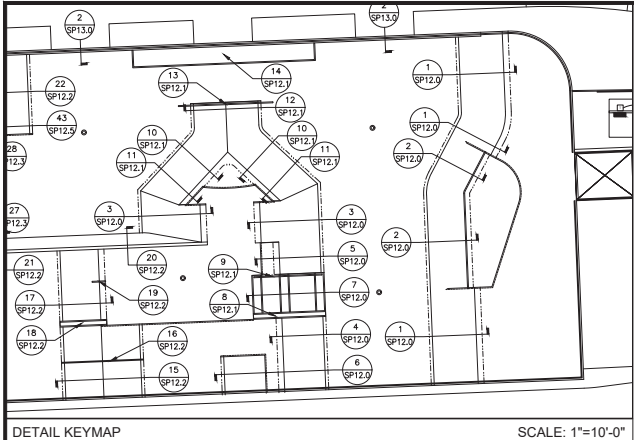
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PROJECT: BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

SHEET TITLE: STANDARD DETAILS (SHOTCRETE)

SHEET NUMBER: SP-11.1



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PROJECT:

BORCHARD PARK

SKATEPARK

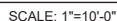
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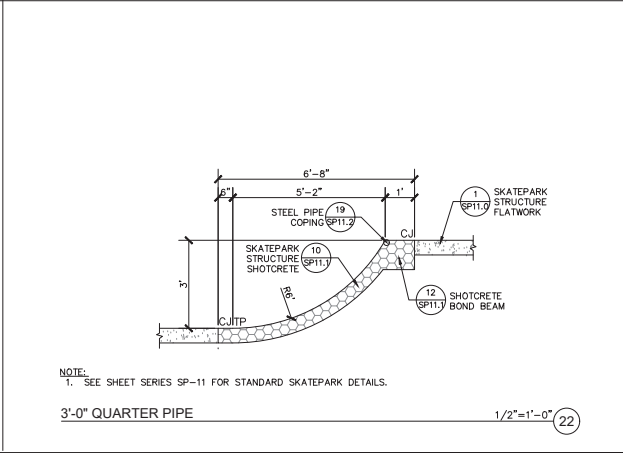
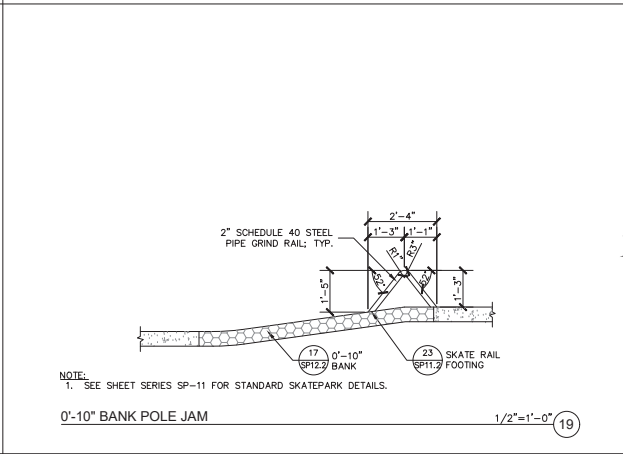
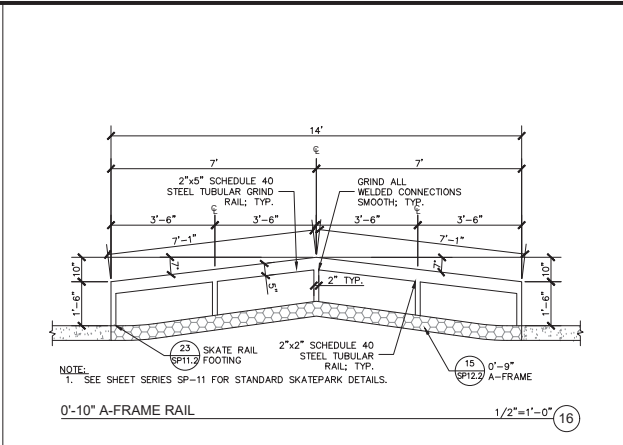
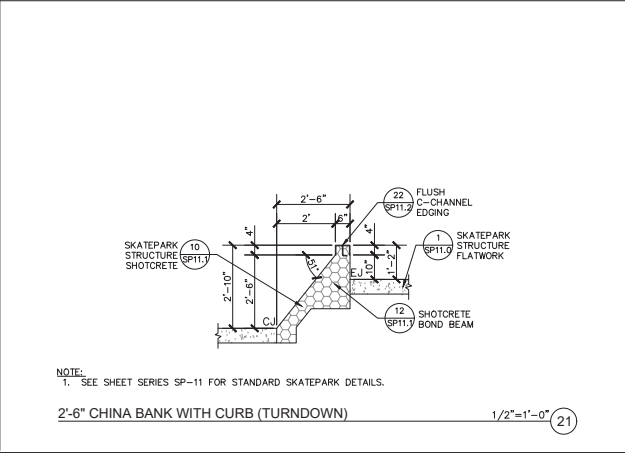
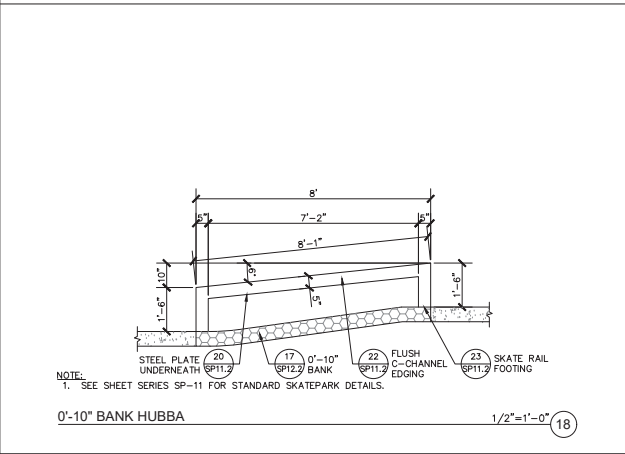
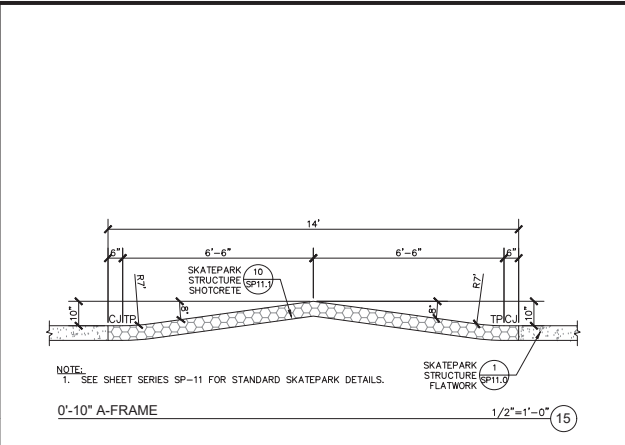
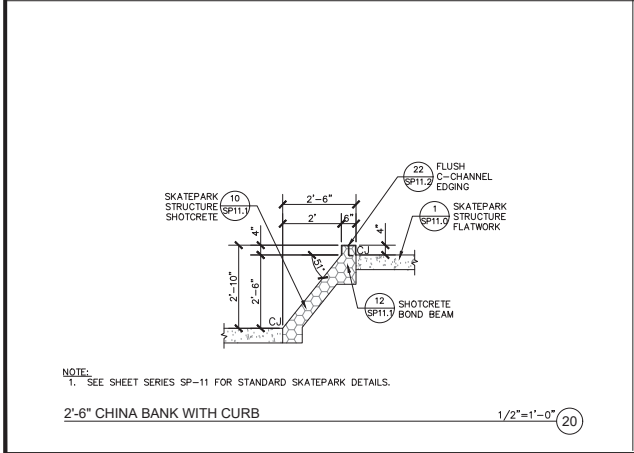
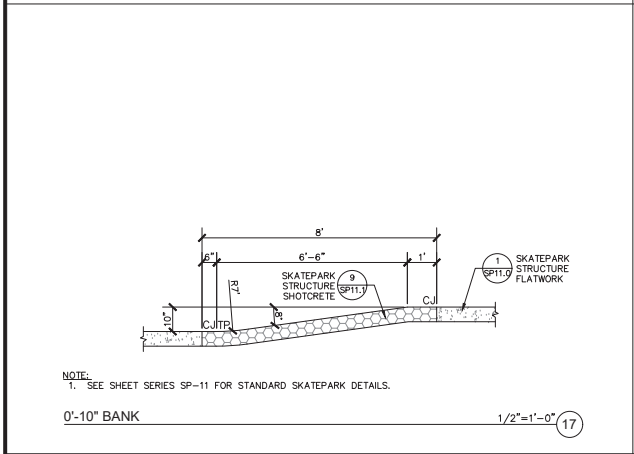
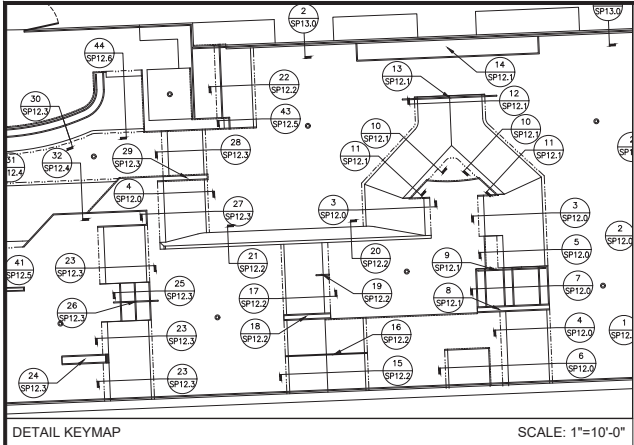
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PROJECT:

BORCHARD PARK

SKATEPARK

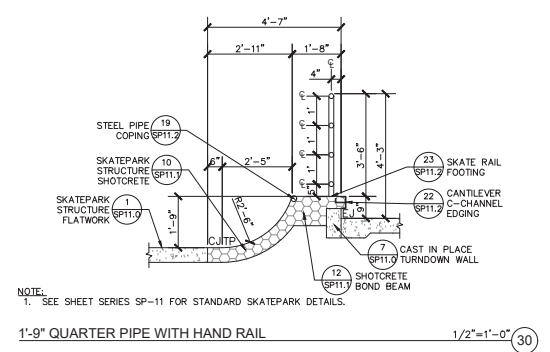
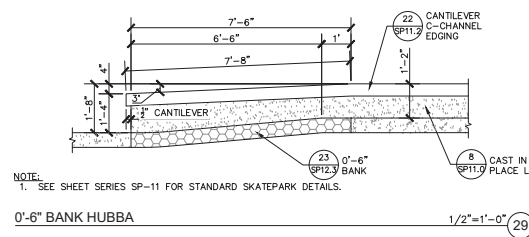
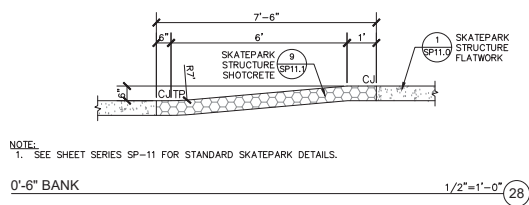
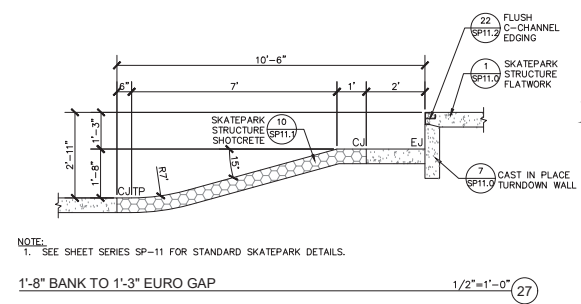
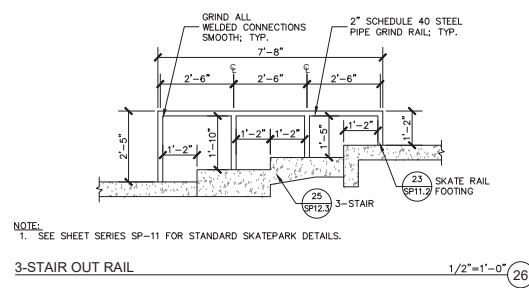
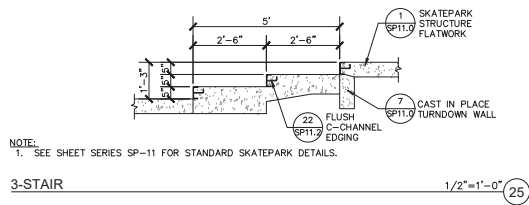
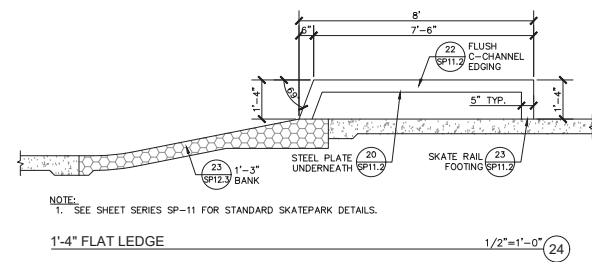
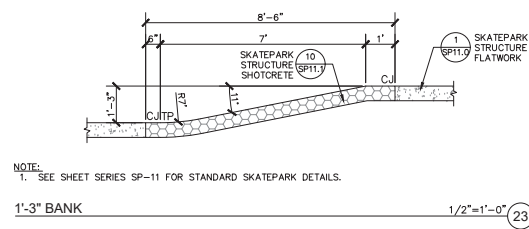
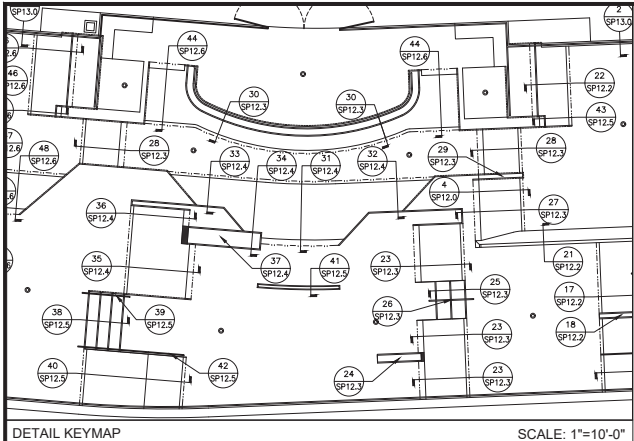
THOUSAND OAKS, CA

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SKATEPARK DETAILS

SHEET NUMBER

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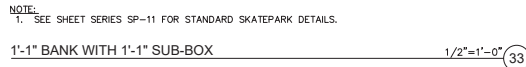
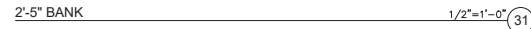
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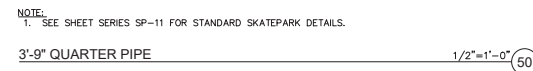
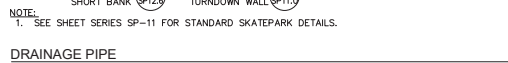
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PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

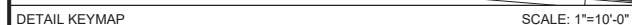
SHEET TITLE:
SKATEPARK DETAILS

SHEET NUMBER:
SP-12.3

[illegible]



SHEET TITLE: SKATEPARK DETAILS		PROJECT: BORCHARD PARK SKATEPARK THOUSAND OAKS, CA				CALIFORNIA skateparks [TF] 1-800-CA-SKATE www.californiaskateparks.com	
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5'-6" TIGHT QUARTER PIPE 1/2"=1'-0" 53



1'-6" SHORT ESCALATOR 1/2"=1'-0" 54



3'-6" SPINE 1/2"=1'-0" 55



1'-6" LONG ESCALATOR



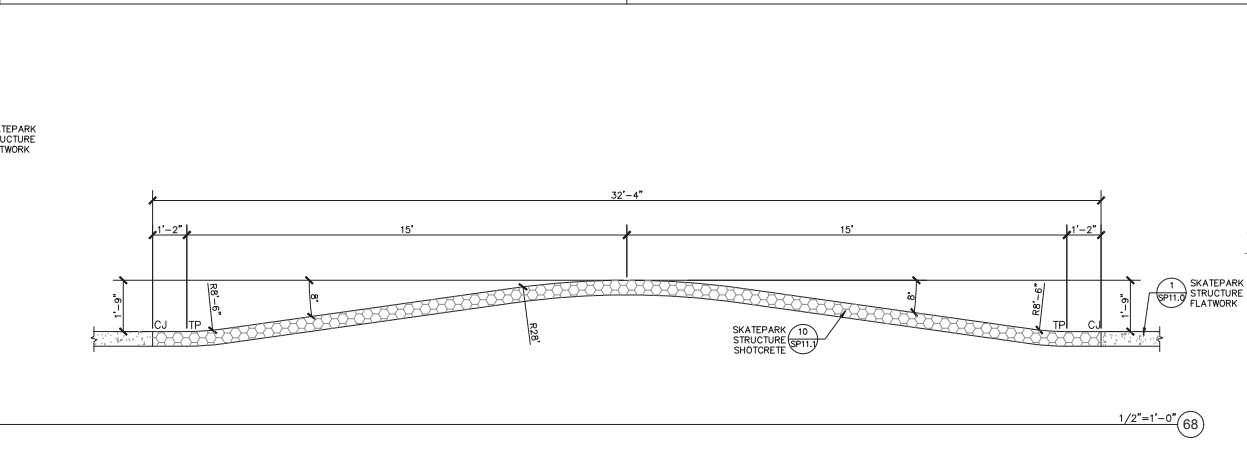
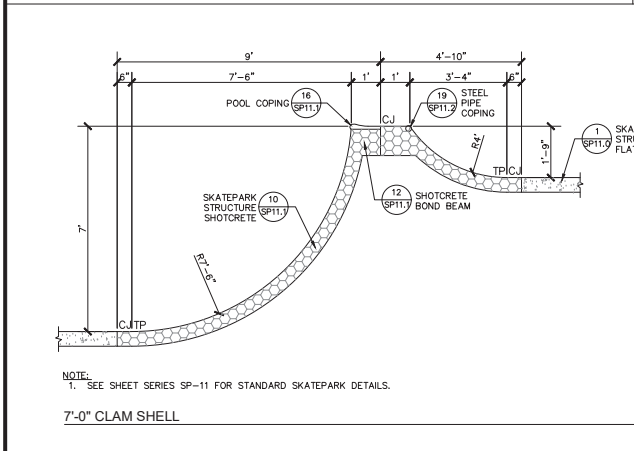
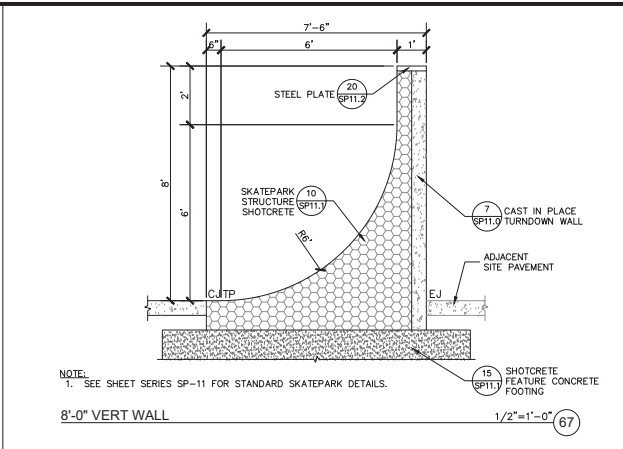
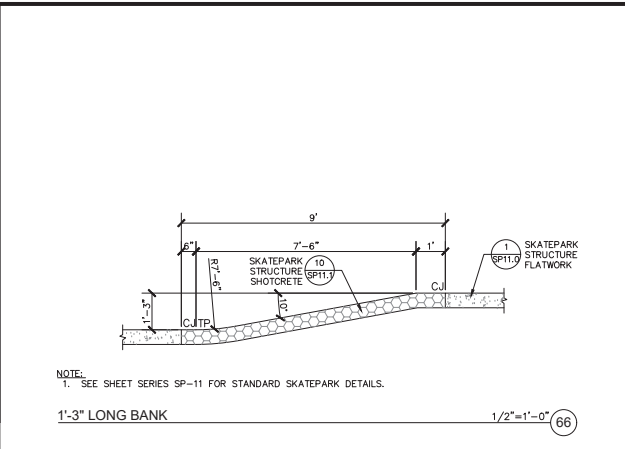
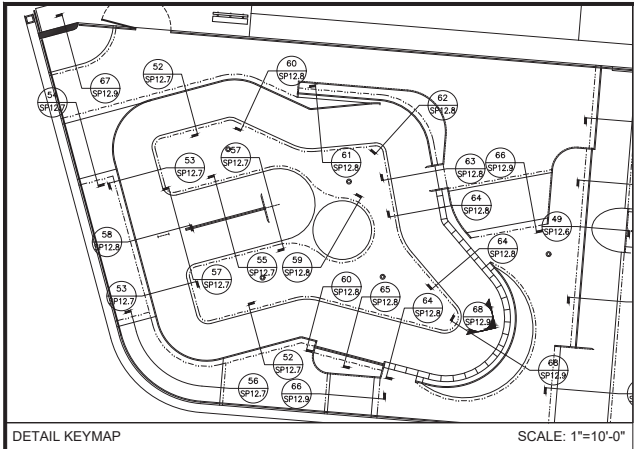
1'-9" ROLLER 1/2" = 1'-0" 57

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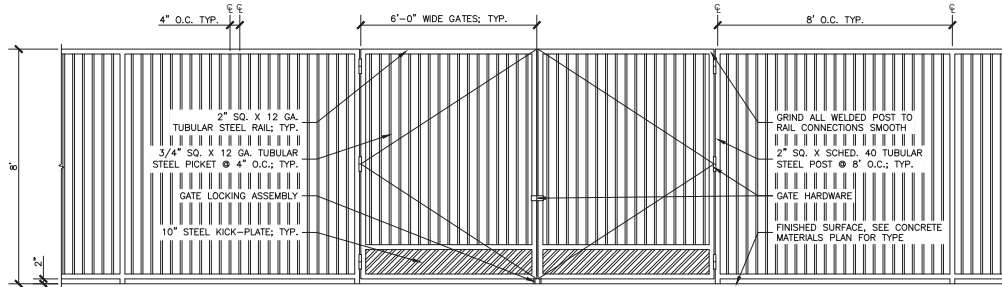
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004	95% CD PACKAGE	09/19/2024	KM	ZW
005	100% CD PACKAGE	09/19/2024	KM	ZW

PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

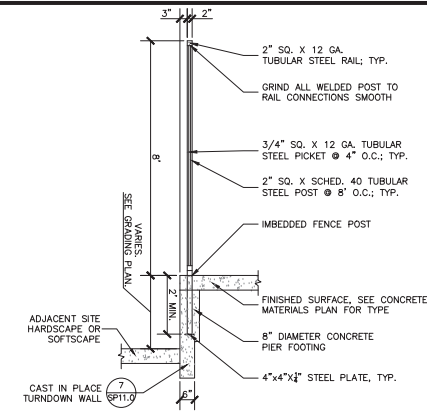
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SKATEPARK DETAILS

SHEET NUMBER:
SP-12.9

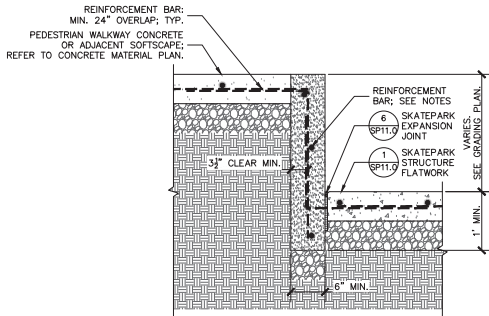


- NOTE:
1. GATES SHALL HAVE LOCKING ASSEMBLIES IN BOTH OPEN AND CLOSED POSITIONS.
 2. GATE HARDWARE BY STANLEY CO. OR APPROVED EQUAL.
 3. FENCING SUB-CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF GATE FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO FABRICATION.
 4. REFER TO SPECIFICATIONS FOR PAINTED FINISH AND METALS MATERIALS PLAN FOR PAINT COLORS.
 5. REFER TO SITE PLAN FOR GATE LOCATIONS AND SWING DIRECTIONS.

ORNAMENTAL PERIMETER FENCE AND ENTRY GATES



1/2"=1'-0" 1



- NOTES:
1. ALL REINFORCEMENT BAR MUST HAVE MINIMUM 24" OVERLAP AND BE CONTINUOUS THROUGHOUT.
 2. SEE SKATEPARK SYMBOL LEGEND FOR REINFORCEMENT REQUIREMENTS.

PERIMETER TURNDOWN WALL

1"=1'-0" 2

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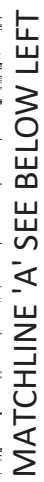


PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

SHEET TITLE:
SITE DETAILS

SHEET NUMBER

SP-13.0



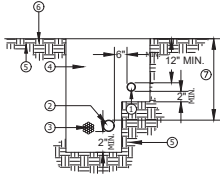
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IRRIGATION GENERAL NOTES

- IRRIGATION SYSTEM AS DRAWN ON PLANS IS DIAGRAMMATIC. ALL PIPE, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS.
- CONTROLLER LOCATIONS SHOWN IS DIAGRAMMATIC. OBTAIN FINAL LOCATION APPROVAL FROM LANDSCAPE ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- PENDING 120VAC ELECTRICAL POWER SOURCE AT CONTROLLER LOCATION IS NOT A PART OF THE IRRIGATION SYSTEM. COORDINATE POWER REQUIREMENTS WITH GENERAL CONTRACTOR, LANDSCAPE ARCHITECT AND/OR OWNER.
- BEFORE COMMENCING ANY WORK, OBTAIN AN UNDERGROUND SERVICE ALERT I.D. NUMBER BY CALLING 1-800-422-4131. ALLOW TWO WORKING DAYS AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE EXCAVATION WORK IS STARTED SO THAT UTILITY OWNERS CAN BE NOTIFIED.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO BE FAMILIAR WITH THE EXISTING SITE CONDITIONS, UTILITIES, GRADE DIFFERENCES, LOCATION OF WALLS, ETC. THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY HIS WORK. HE SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS UNDER ROADWAYS AND PAVING, ETC.
- THE CONTRACTOR SHALL VERIFY WATER PRESSURES PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE ARCHITECT.
- ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- PROVIDE SLEEVES AS SHOWN ON DRAWING. USE 2 TIMES DIAMETER MIN. SCH. 40 P.V.C.
- DISCREPANCIES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR REVISIONS NECESSARY. CONTRACTOR SHALL NOT INSTALL THE IRRIGATION SYSTEM AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES EXIST.
- IRRIGATION HEADS SHALL BE LOCATED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALKS, AND STRUCTURES AND NOT SCALD OFF OF DRAWINGS. DO NOT LOCATE TREES OR TALLER SHRUBS IN LOCATIONS WHERE THEY WILL BLOCK IRRIGATION HEADS AND PREVENT ADEQUATE COVERAGE.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND MAINTAINING THE LATEST EDITION OF LOCAL GUIDELINES AND SPECIFICATIONS FOR LANDSCAPE DEVELOPMENTS AT THE SITE AT ALL TIMES.
- THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, CURBS, FENCES, WOOD STRUCTURES, CONCRETE STRUCTURES, BUILDINGS, UTILITIES, ETC. THE CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR LOCATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADS, PAVING AND OTHER STRUCTURES. CONTRACTOR SHALL NOT INSTALL ANY ITEMS WHERE IT IS OBVIOUS THAT THEY ARE IN DIRECT CONFLICT WITH UNDERGROUND UTILITIES, STRUCTURES, PERMANENT IMPROVEMENTS OR PEDESTRIAN AND VEHICULAR SAFETY CONSIDERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SLEEVES UNDER ALL PAVED AREAS PRIOR TO PAVING INSTALLATION. SLEEVING SHALL BE SCH. 40 PVC PIPE, TWICE THE LINE SIZE CARRIED, AND GROUDED TOGETHER WHERE FEASIBLE. SLEEVING SHALL ALSO BE BURIED MIN. 24" UNDER PEDESTRIAN PAVEMENT, AND MIN. 30" UNDER VEHICULAR PAVEMENT, OR PER LOCAL GOVERNING CODES AND REGULATIONS, WHICHEVER IS MORE STRINGENT. REFER TO IRRIGATION LEGEND/NOTES FOR SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY ALL PRESSURES ON SITE PRIOR TO CONSTRUCTION AND PROVIDE THESE TO THE OWNER'S AUTHORIZED REPRESENTATIVE IN WRITING. IF AVAILABLE STATIC P.S.I. EXCEEDS 75 P.S.I., THE CONTRACTOR SHALL VERIFY THE EXISTENCE OF A PRESSURE REGULATOR AND IF INADEQUATE OR NONE EXISTS, INSTALL A WILKINS PRESSURE REGULATOR (OR APPROVED EQ.) AND WYE FILTER DOWNSTREAM OF BACKFLOW ASSEMBLY.
- MAINLINE FEEDER BETWEEN POINT OF CONNECTION, METER, AND BACKFLOW UNIT TO BE OF MATERIAL AS REQUIRED BY CURRENT WATER DISTRICT.
- CONTRACTOR SHALL VERIFY IN THE FIELD WITH THE OWNER'S AUTHORIZED REPRESENTATIVE, AND THE LOCAL GOVERNING AGENCY REPRESENTATIVE, ALL LOCATIONS OF POINT OF CONNECTIONS, WATER METERS, MAIN WATER SUPPLY LINE, BACKFLOW PREVENTER, AUTOMATIC CONTROLLER RAIN SWITCH, AND VALVES, PRIOR TO CONSTRUCTION.
- POINT OF CONNECTION TO BE AT SERVICE LINE DOWNSTREAM OF WATER METER, VERIFY LOCATION, TYPE AND SIZE PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL THOROUGHLY FLUSH ALL LINES AND ADJUST ALL HEADS FOR OPTIMUM SYSTEM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALLS, STREETS, AND STRUCTURES SUCH AS BUILDINGS, WALLS, FENCES, ETC. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ALC UNITS.
- ALL SHRUB HEADS ADJACENT TO LAWN AND PAVED AREAS SHALL BE MOUNTED ON 6" BODIES MIN. OR PER LOCAL GUIDELINES. ALL OTHER SHRUB SPRAY HEADS MAY BE MOUNTED ON RISERS 12" ABOVE FINISH GRADE WITH OWNER'S PRIOR APPROVAL. ALL LAWN HEADS SHALL BE MOUNTED ON 4" POP-UP BODIES MIN. OR PER LOCAL GUIDELINES. ALL LAWN ROTOR HEADS SHALL BE MOUNTED ON 8" POP-UP BODIES OR PER LOCAL GUIDELINES.
- ALL CONTROL EQUIPMENT, SUCH AS REMOTE CONTROL VALVES, BALL VALVES, AND QUICK COUPLER VALVES SHALL BE LOCATED IN SHRUB PLANTER AREAS.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF IRRIGATION PIPING WITH THE LOCATION OF TREES (REFER TO PLANTING PLAN) AND SHALL MAINTAIN A MIN. OF 5 FEET CLEARANCE BETWEEN PIPING AND TRUNKS OF TREES WHEREVER POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL INSTALL BELOW HEAD CHECK VALVES AND/OR IN-LINE CHECK VALVES (SIZE AS REQUIRED) AS REQUIRED TO ELIMINATE ALL LOW HEAD DRAINAGE.
- ALL IRRIGATION CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL AND REGIONAL GOVERNING CODES.
- ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- LOCATE ALL IRRIGATION HEADS AND LINES 8" FROM SIDEYARD PROPERTY LINES ADJACENT TO FENCES, WALLS, ETC. AND 2" FROM SIDEYARD PROPERTY LINES IN LAWN AREAS WHERE OCCURS.
- FOR ALL SPRAY HEADS THAT REQUIRE GREATER THAN 30% REDUCTION OF FULL FLOW RADIIUS, THE CONTRACTOR SHALL USE THE APPROPRIATE PRESSURE COMPENSATING DEVICE.
- CONTRACTOR/OPERATOR SHALL ONLY APPLY SUFFICIENT WATER TO PROMOTE HEALTHY GROWTH OF THE PLANT MATERIAL. AT NO TIME WILL THE CONTRACTOR/ OPERATOR APPLY WATER AT A RATE OR FREQUENCY WHICH CAUSES RUNOFF OR SOIL SATURATION.
- CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS. MEASUREMENTS FOR PROPER GROUND SHALL BE VERIFIED AT LEAST ONCE PRIOR TO HOMEOWNER OCCUPANCY, AND NECESSARY ADJUSTMENTS SHALL BE MADE TO COMPLY WITH MANUFACTURER'S SPECIFICATIONS.



NOTES

ALL PIPE AND WIRE TO BE SLEEVED UNDER HARDSCAPE (REFER TO SLEEVE INSTALLATION DETAIL.)

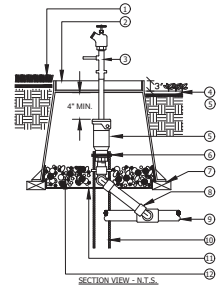
BUNDLE AND TAPE WIRE AT 10' INTERVALS

TIE A LOOSE 20" LOOP IN WIRING AT CHANGE IN DIRECTION GREATER THAN 30 DEGREES. ATTACH ALL LOOPS AFTER ALL CONNECTIONS HAVE BEEN MADE.

ALL PLASTIC PIPING TO BE SNAKED IN TRENCHES.

LEGEND

- PVC NON-PRESSURE PIPE
- PVC PRESSURE PIPE
- CONTROL WIRE BUNDLE
- APPROVED BACKFILL
- UNDISTURBED SOIL
- FINISH GRADE
- REFER TO NOTES OR 18" MIN.

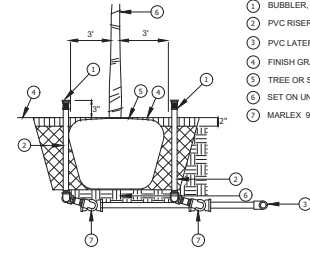


NOTES

USE TEFLON TAPE ON ALL THREADED FITTINGS TYPICAL.

LEGEND

- FINISHED GRADE IN TURF AREAS
- ROUND PLASTIC VALVE BOX WITH BOLT DOWN COVER. USE STAINLESS BOLT, NUT, AND WASHER.
- QUICK COUPLER KEY ASSEMBLY CONNECTION AS SHOWN, KEY MUST CLEAR VALVE BOX.
- FINISHED GRADE IN SHRUB AREAS.
- QUICK COUPLER VALVE SEE LEGEND.
- STAINLESS STEEL CLAMP
- BRICK SUPPORTS
- CONTRACTOR ASSEMBLED SWING JOINT, WITH ONE PIECE BRASS HPT NIPPLE MOD. # 1-A1912
- MAINLINE, SEE LEGEND.
- #4 X 3/8" REBAR STAKES, 2 REQUIRED.
- 3/4" ROCK, 1 CUBIC FT.



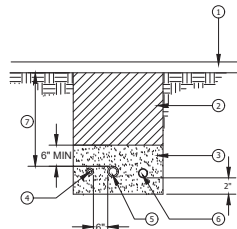
* NUMBER OF BUBBLERS ON TREE OR SHRUB PER LEGEND

LEGEND

- BUBBLER, SEE LEGEND
- PVC RISER - SCH. 80
- PVC LATERAL PER PLAN.
- FINISH GRADE
- TREE OR SHRUB ROOT BALL
- SET ON UNDISTURBED NATIVE SOIL
- MAXLEX 90 DEG. STREET ELB. JOINT

F IRRIGATION TRENCHING

N.T.S.



LEGEND

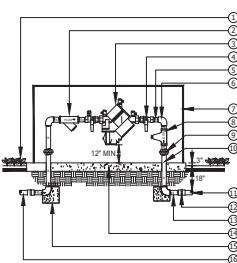
- HARDSCAPE SURFACE
- APPROVED BACKFILL
- LEAN GRANITE SAND (REFER TO ENG. PLANS/REPORT FOR SPECIFIC MATERIAL AND COMPACTION REQUIREMENTS)
- PVC NON-PRESSURE LINE W/ SLEEVE
- PVC PRESSURE PIPE W/ SLEEVE
- LOW VOLTAGE CONTROL WIRES, SLEEVE SIZE AS REQUIRED
- MIN. 24" UNDER PEDESTRIAN PAVEMENT; MIN. 30" UNDER VEHICULAR PAVEMENT (OR PER LOCAL CODE)

NOTES

- ALL PVC IRRIGATION SLEEVES TO BE SCH. 40 PIPE, UNLESS OTHERWISE NOTED ON THE IRRIGATION LEGEND.
- ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
- ALL SLEEVES TO BE SIZED TWICE THE DIA. OF THE PIPE RUN.
- ALL SLEEVES TO EXTEND MIN. 12" BEYOND HARDSCAPE EDGES.

N.T.S.

G IRRIGATION SLEEVING



LEGEND

- FINISH GRADE
- WYE STRAINER IF SPECIFIED SEE LEGEND FOR SPECIFICATION
- R/P DEVICE SEE LEGEND FOR SPECIFICATION
- BRASS BALL VALVE
- BRASS NIPPLES MIN. 4" TYP.
- BRASS ELL, 4 REQUIRED
- BACKFLOW STRONG BOX SBRIC TYPE ENCLOSURE, OR APPROVED EQ., SIZE AS REQUIRED
- PRESSURE REGULATOR IF SPECIFIED SEE LEGEND FOR SPECIFICATION
- BRASS UNION, 2 REQUIRED
- BRASS RISERS LENGTH AS REQUIRED
- PVC MAINLINE TO MASTER VALVE
- SCH 80 PVC FEMALE ADAPTER
- SCH 80 PVC NIPPLE 6" MIN.
- CONCRETE SLAB, SEE BELOW
- CONCRETE TIE BLOCKS
- PVC MAINLINE

NOTE:

IF WYE STRAINER OR PRESSURE REGULATOR IS SPECIFIED, INSTALL ON EITHER THE HORIZONTAL PIPING OR ON THE DOWNSTREAM LEG AS SPACE PERMITS.

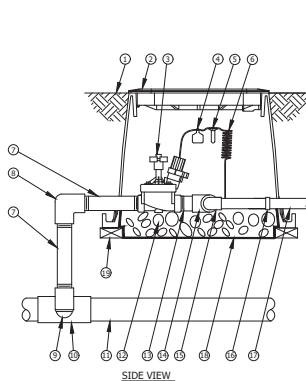
CONCRETE SLAB SHALL BE MINIMUM 4" THICK, 18" WIDE AND EXTEND AT LEAST 6" PAST THE BACKFLOW ASSEMBLY PIPING. IF BACKFLOW ENCLOSURE IS SPECIFIED IN THE LEGEND, THE CONCRETE SLAB SHALL BE THE SIZE REQUIRED BY THE MANUFACTURER.

N.T.S.

H BACKFLOW DEVICE

D QUICK COUPLER

N.T.S.



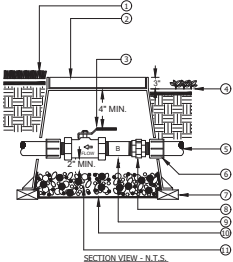
SIDE VIEW

B REMOTE CONTROL VALVE

N.T.S.

LEGEND

- IRRIGATION MAINLINE
- SCH. 80 PVC TEE, SIXT MAINLINE MANIFOLD SIZE
- BALL TYPE ISOLATION VALVE
- SCH 80 PVC UNION
- MINIMUM 12" SEPARATION BETWEEN ALL VALVE BODIES
- REMOTE CONTROL VALVE
- SCH 80 UNION
- IRRIGATION SUB-MAINLINE
- LATERAL LINE TO SPRINKLERS
- HARDSCAPE EDGE INSTALL MAINLINE 18" OFF OF HARDSCAPE EDGE
- BALL TYPE ISOLATION VALVE
- SCH 80 PVC UNION
- QUICK COUPLER SWING JOINT
- QUICK COUPLER VALVE IN A ROUND VALVE BOX- QUICK COUPLER MANIFOLD TO BE SEPARATE FROM RCV MANIFOLD



SECTION VIEW - N.T.S.

NOTE:

BOX TO BE INSTALLED AS TO ALLOW FOR PROPER OPERATION OF BALL VALVE. INSTALL AT RIGHT ANGLE TO HARDSCAPE EDGE, INSTALL VALVE OFF-CENTER IN BOX. INSTALL VALVE BOX EXTENSIONS AS REQUIRED TO ACHIEVE PROPER VALVE INSTALLATION AT MAIN LINE DEPTH.

LEGEND

- FINISHED GRADE IN TURF AREAS
- PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER. USE STAINLESS STEEL BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "BV" ONTO LID.
- BALL VALVE, SEE LEGEND FOR SPECIFICATION
- FINISHED GRADE IN SHRUB AREAS
- PRESSURE SUPPLY LINE DEPTH AS PER SPECIFICATIONS
- PVC MALE ADAPTER
- BRICK SUPPORTS
- BRASS UNION
- BRASS NIPPLE
- LANDSCAPE FABRIC
- 3/4" ROCK, 2 CUBIC FT.

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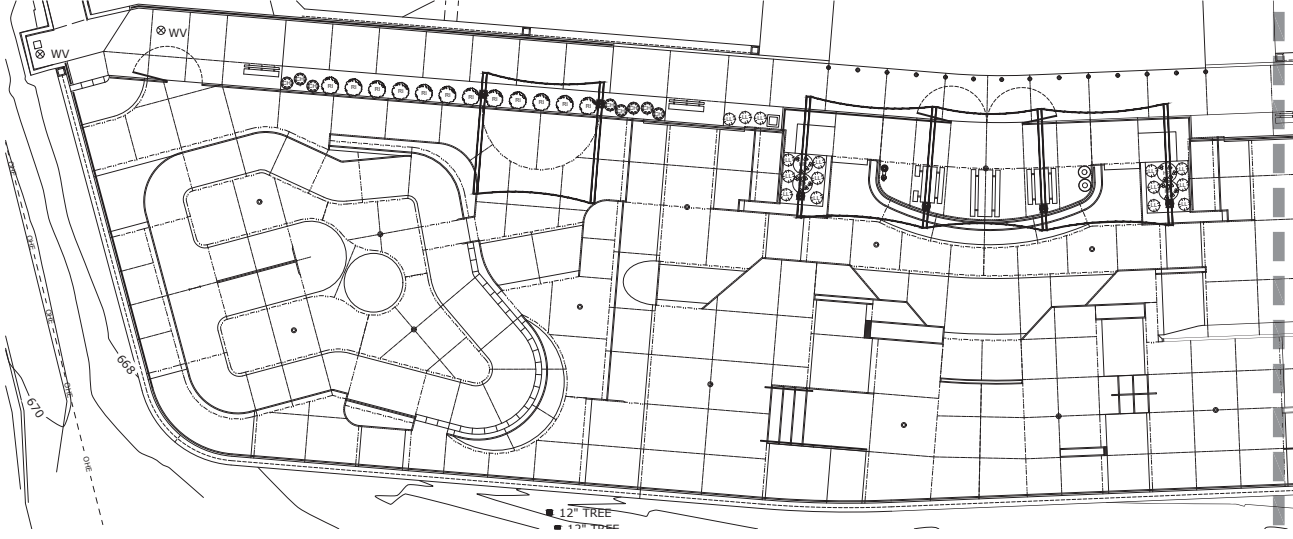


PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

SHEET TITLE:
IRRIGATION DETAILS

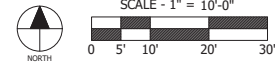
SHEET NUMBER

LA-2.0



MATCHLINE 'A' SEE ABOVE RIGHT

MATCHLINE 'A' SEE BELOW LEFT



PLANTING SCHEDULE			
BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY
RHIPSALEPS INDICA 'VENOT'	INDIAN HAWTHORN 'VENOT'	15 GAL	17
HESPERALOE PARVIFLORA	HESPERALOE	15 GAL	15
MUHLENBERGIA RIGENS	DEER GRASS	5 GAL	32
LOMANDRA LONGIFOLIA 'TANAKA'	MAT RUSH	5 GAL	32
CHEIMOPHYLLUM EURYANTHUM	CAPE RUSH	5 GAL	15

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004	95% CD PACKAGE	08/27/2024	KM	ZW	ZW
005	100% CD PACKAGE	09/19/2024	KM	ZW	ZW



PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

SHEET TITLE:
PLANTING PLAN

SHEET NUMBER

LA-3.0

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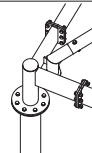
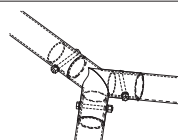
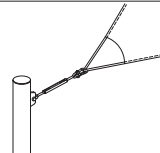
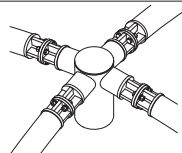


TYP. SECTION

PERSPECTIVE VIEW

PERSPECTIVE VIEW

A diagram showing a central oval shape connected to four lines that extend outwards in different directions, representing a four-way junction or a central node in a network.



-All dimensions and heights must be field verified prior to any final design, fabrication or installation work.

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA): 355

		REV	DESCRIPTION	DATE	CHK	ENG
Drawn By :	AZR	01/04/24				
Checked By :	AZR	01/04/24				
Approved By :	AZR	01/04/24				

Drawn By : AZR	01/04/24
Checked By : AZR	01/04/24
Approved By : AZR	01/04/24

DRAWING DESCRIPTION:	
SHADE STRUCTURE PLAN	
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PAGE	SS-1.0
REV.	

LIST OF DRAWINGS

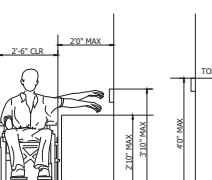
SCOPE OF WORK

PROVIDE POWER & LIGHTING FOR NEW SITE AREA LIGHTING SKATE BOARD PROJECT WITH 6 NEW MUSCO LIGHT POLES. REPLACE A FEW EXISTING PARKING LOT LIGHTING FIXTURES AT DESIGNATED LOCATIONS. PROVIDE POWER TO NEW MUSCO LIGHTING FIXTURES. PROVIDE POWER TO NEW PROJECT AREA FROM EXISTING SITE SERVICE SWITCHBOARD & DISTRIBUTION EQUIPMENT VIA HORIZONTAL BORED FEEDERS.

LIST OF APPLICABLE CODES

LIST OF APPLICABLE CODES	
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR	2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR	2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 15, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR	TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL'S REGULATIONS
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR	
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR	
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR	
	APPLICABLE STANDARDS
	FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE WFA STANDARDS, REFER TO CIRC CHAPTER 15 AND CIRC CHAPTER 80.

ABBREVIATIONS

[illegible]MOUNTING HEIGHT
OVER OBSTRUCTION

COLOR CODE FOR CONDUCTORS

PROVIDE CONDUCTOR COLOR CODE AS FOLLOWS:

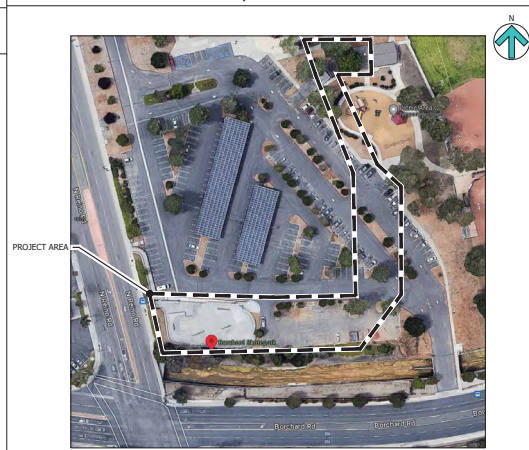
120/208VAC, 3Ø, 4W:	BLUE, BLACK, RED FOR PHASE CONDUCTORS AND WHITE FOR NEUTRAL, GREEN FOR GROUND.
277/480VAC, 3Ø, 4W:	ORANGE, BROWN, YELLOW FOR PHASE CONDUCTORS AND WHITE FOR NEUTRAL, GREEN FOR GROUND.

DERATING TABLE

DERATING TABLE

NEC #310.8 ADJUSTMENT FACTORS	
(A) MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE, WHERE THE NUMBER OF CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITIES SHALL BE REDUCED AS SHOWN IN THE FOLLOWING TABLE:	
NUMBER OF CURRENT-CARRYING CONDUCTORS	PERCENT OF VALUES IN TABLES AS ADJUSTED FOR AMBIENT TEMPERATURE IF NECESSARY
4 THROUGH 6	80
7 THROUGH 9	70
10 THROUGH 20	50
21 THROUGH 30	45
31 THROUGH 40	40
41 AND ABOVE	35

SITE/AREA MAP

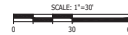


Copyright Lucci and Associates Consulting Electrical Engineers. Deviations from this drawing will not be made without their expressed written permission. L.A.I. # 22-569 PAPER SIZE 36"x24"

E100

DATE: 9 September 2024
PATHNAME: G:\21569\EL\Sheds
DRAWING FILENAME: 22-569E300
DRAFTER: CMZ
TIME: 9:12 am

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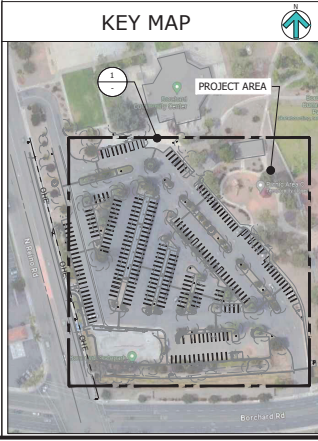
OVERALL SITE LIGHTING PLAN
SCALE: 1"=30'-0"

1
E300



- SHEET NOTES:**
1. VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON SITE AND CIVIL PLANS.
 2. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN AND INSTALLATION.
 3. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UNDERGROUND UTILITY SYSTEMS IN PLACE. CONTRACTOR SHALL REPAIR ANY UTILITY SYSTEM DAMAGED DURING CONSTRUCTION.
 4. ALL CONDUIT 90° CONDUIT BENDS AND RISERS SHALL BE PVC SCHEDULE 80.
 5. MINIMUM CONDUIT BURIAL DEPTH IS 24".
 6. 1" CONDUIT MINIMUM UNDERGROUND.
 7. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.

- KEY NOTES:**
- 1 EXISTING TO REMAIN.
 - 2 SEE CIVIL PLANS FOR LOCATION.



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003	50% CD PACKAGE	10/17/2023	CM	ZW
004	100% CD	09/19/2024	CM	ZW

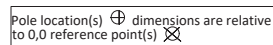
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PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

SHEET TITLE:
OVERALL SITE LIGHTING PLAN

SHEET NUMBER:
E300

DATE: 05-09-2024



NOTES: Security textures not included in grid calculations



SCALE: 1"= 30'-0"

1	E304
-	
-	



CALCULATIONS BY MUSCO

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PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

SHEET TITLE:
PHOTOMETRIC PLAN - SPILL LIGHTING

SHEET NUMBER

E304

-569 PAPER SIZE 36"x24"

TIME: 9:12 am

DATE: 9 September 2024

PATHNAME: G:\216913\EL\Sheets

DRAWING FILENAME: 22-569E305

DRAFTER: CM02

Drawn by: CM02, Rev. No. 0.0, 09/09/2024
Checked by: CM02, Rev. No. 0.0, 09/09/2024
Designed by: CM02, Rev. No. 0.0, 09/09/2024
Reviewed by: CM02, Rev. No. 0.0, 09/09/2024

System Requirements: Control System Summary

Project Name: Thousand Oaks Borchard Skate Park | Project #: 216913
Control System ID: 1 of 1
Distribution Panel Location: ID Service 1

Circuit Summary

Switching Schedule	
Field/Switch Description	Switches
Skate Park	1
Security	2

Control Module ID: 1

Lighting Circuit Voltage: 480/60/3

Circuit Summary by Switch						
Switch	Zone Description	Pole ID	Qty of Fixtures	Full load amperes	Contactor Size (amps)	Contactor ID
1	Skate Park	P1	3	3.91	30	1
	Skate Park	P2	3	3.91	30	1
	Skate Park	P3	3	3.91	30	1
	Skate Park	P4	3	3.91	30	1
2	Security	P1, P2, P3, P4	4	0.57	30	1



Sales Representative: Nicholas Cobb | Project Engineer: Daniel Lohman | Scan: 216913C | Document ID: 216913P1V1C2-1108162930

Page 1 of 3 - 8 November 2023

System Requirements: Control System Summary

Project Name: Thousand Oaks Borchard Skate Park | Project #: 216913
Control System ID: 1 of 1
Distribution Panel Location: ID Service 1

Project Information

Control System

Control System ID: 1
Control System Type: Control-Link Control and Monitoring System
Communication Type: PowerLine-S7

Project Notes:

See fixture ampersage assumed 277V power.

Power Requirements

Control cabinets:

Control voltage (phase to neutral)

VA loading - Unload

VA loading - Sealed

Lighting Circuits:

Voltage/hertz/phase

Equipment Listing

Description	Qty	Size (in)
Control and monitoring cabinet - primary	1	34 X 48
Control and monitoring cabinet - secondary	5	-
Off/On/Auto switches	2	-

Important Notes:

- Please confirm that the lighting circuit voltage listed above is accurate for this facility. This is the voltage/phase being connected and utilized at each lighting pole's electrical components enclosure. Inaccurate voltage/phase can result in additional costs and delays. Contact your Musco sales representative to confirm this item.
- In a 3 phase design, all 3 phases are to be run to each pole location. Musco's single phase luminaires come pre-wired to utilize all 3 phases across the entire facility.
- One contactor is required for each circuit at each pole location. Contactors are 3 pole and 100% rated for the published continuous load.
- If the lighting system will be fed from more than one distribution location, additional equipment may be required. Contact your Musco sales representative.
- Size unswitched devices using the full load ampersage column of the Circuit Summary by Switch chart. (Minimum power factor is 0.95). Size conduit per code unless otherwise specified as larger to allow for harness connectors.
- Avoid use of in-ground junction/pull boxes when possible. If used, all wire connectors must be II listed for the 1 locations to prevent leakage current.
- Control power wiring must be in separate conduit from line or load power wiring. Communication cables must be in separate conduit from any power wiring.
- Refer to Installation Instructions for more details on equipment information and the installation requirement.



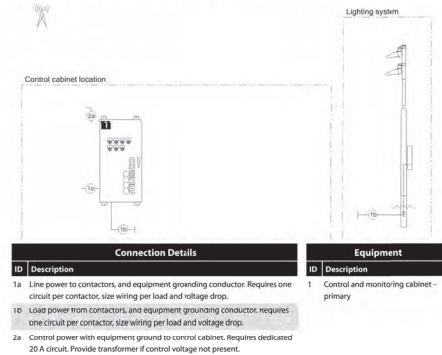
Sales Representative: Nicholas Cobb | Project Engineer: Daniel Lohman | Scan: 216913C | Document ID: 216913P1V1C2-1108162930

Page 1 of 3 - 8 November 2023

System Requirements: Control System Summary

Project Name: Thousand Oaks Borchard Skate Park | Project #: 216913
Control System ID: 1 of 1
Distribution Panel Location: ID Service 1

Equipment Layout and Connection Details



Connection Details		Equipment	
ID	Description	ID	Description
1a	Line power to contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.	1	Control and monitoring cabinet - primary
1b	Load power from contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.		
2a	Control power with equipment ground to control cabinet. Requires dedicated 20 A circuit. Provide transformer if control voltage not present.		



Sales Representative: Nicholas Cobb | Project Engineer: Daniel Lohman | Scan: 216913C | Document ID: 216913P1V1C2-1108162930

Page 2 of 3 - 8 November 2023



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PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

SHEET TITLE:
SYSTEM REQUIREMENTS: CONTROL
SYSTEM SUMMARY

SHEET NUMBER

E305

DATE: 05-09-2024

DATE: 9 September 2024
DRAWING FILENAME: 22-569E310
DRAFTER: CMZ
PATHNAME: G:\21569\EL\Sheds
TIME: 9:12 am

Installation Instructions: **Light-Structure System™**

Precast Concrete Base

Overview

The precast concrete base is set directly into the ground, backfilled with concrete, and allowed to cure for 12 to 24 hours. The base is designed for easy slip-fit connection to the galvanized steel pole. The remaining components — steel pole, poletop luminaire assembly, electrical components enclosure, and wire harness — are assembled as a unit and set onto the base. The base includes an integrated lightning ground system.

Tools/Materials Needed

Musco Supplied

- Field Aiming Diagram
- Musco Foundation and Pole Assembly Drawing or alternate foundation design
- Steel bar
- Wooden base wedges
- Level with shim for tapered base
- ¾ in hex key

Contractor Supplied

- Crane or forklift with nylon strapping and 8 ft (2.5 m) sling sized to weight of base
- Conduit for underground wiring
- Concrete backfill
- Water pump (as needed)

Installation Procedure

- Verify pole ID on concrete base matches pole location on Field Aiming Diagram.

For options on poor soil conditions, alternative installation methods, or if there are any issues with pole locations given, contact your local Musco representative. Your project engineer's name appears on Field Aiming Diagram.

Note: Use only project specific foundation designs detailed on Musco Foundation and Pole Assembly Drawing or alternate foundation design plan.

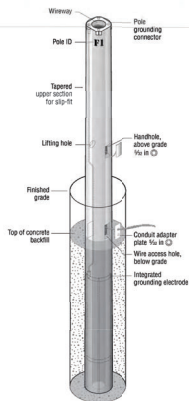
- Mark pole locations per Field Aiming Diagram.

- Excavate holes to size and depth given on Musco Foundation and Pole Assembly Drawing or alternate foundation design.

Warning

Fall hazard

Cover holes or install fencing for fall safety.



Installation Instructions: **Light-Structure System™**

Before You Begin

Documents We Provide

Field Aiming Diagram

The Field Aiming Diagram is your map for locating all poles on your project. It gives this information:

- Pole IDs, locations, and heights
- Luminaire IDs
- Field origin for coordinate measuring
- Common aiming point for all poles, or individual aiming points for each pole
- Factory-set aiming information for each luminaire
- Full load current for each luminaire

Control System Summary

Projects with a control system include a Control System Summary. It gives this information:

- Control system diagram and details
- Control boxes and cabinets
- Lighting circuits
- Voltage, phase, and frequency information
- Full load current for each circuit

Musco Foundation and Pole Assembly Drawing

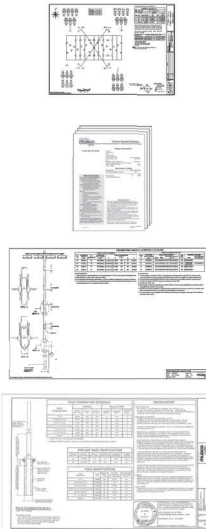
This drawing provides information related to the installation of the foundation and the galvanized steel pole.

- Pole weight
- Precast concrete base weight
- Hole depth and diameter
- Concrete backfill quantities
- Pole section minimum overlaps

Note: Foundation details are omitted on projects with alternate foundation design.

Alternate Foundation Design

Some poles on a project may require an alternate foundation design. This stamped drawing provides construction details of the alternative design. This document supersedes all other foundation information.



Installation Instructions: **Light-Structure System™**

Before You Begin

Electrical System Requirements

While the majority of the Light-Structure System™ can be assembled by non-professionals, a qualified electrician must handle the electrical supply installation and hook-up in accordance with national, state, and local codes. Your electrician should review this information before installation begins.

The electrician is generally required to provide these items:

- Service entrance
- Main power disconnect and distribution panel(s)
- Supply wiring and insulated equipment grounding conductors

Ensure supply wiring is rated for 90°C. Review the label inside the electrical components enclosure door and Control System Summary for voltage and phase requirements.

luminaires generate up to 2.6 mA per driver on the equipment grounding conductor and are designed to meet leakage current requirements per IEC 61347-1.

Basic insulation provided between RS-485 control input and main power supply.

Inspect all wiring for damage prior to installation.

Always dispose of electronic waste in accordance with all applicable laws and regulations.

Other features that may affect the wiring supply requirements for this project include:

- Lighting contractor cabinets — refer to installation instructions provided with control equipment and the Musco Control System Summary.
- Control-Link® system — refer to installation instructions provided with control equipment and the Musco Control System Summary.
- Auxiliary bracket option — customer supplies all wiring for auxiliary components. Refer to Installation Instructions: Auxiliary Bracket.

Volunteer Installation

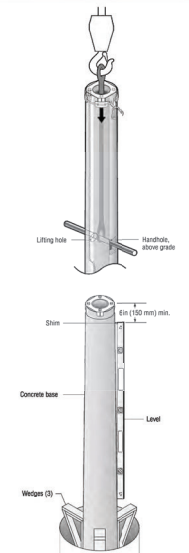
Have a qualified electrician review and complete the following:

- Create electrical system design — prior to installation.
- Profile and install trenching, supply wiring, and conduit.
- Complete all steps from *Connecting to Supply Wiring* section.
- Test complete lighting system.

Installation Instructions: **Light-Structure System™**

Precast Concrete Base

- Sling and lower base into hole. Orient wire access hole to accommodate incoming supply wiring. Snip banding and remove tap protectors.



- Plumb base and wedge into position. Use supplied level with shim on upper end against base. Shim accommodates taper of base. Top of base is beveled. Keep level at least 6 in (150 mm) from top when plumbing.

- Remove any water from hole to avoid weakening foundation. Water in hole during concrete pour can also cause hollow center of base to fill with concrete.

- If backfilling to finished grade with concrete instead of compacted fill, be sure to maintain wire access.

- Backfill with concrete per Musco Foundation and Pole Assembly Drawing or alternate foundation design.

Installation Instructions: **Light-Structure System™**

Before You Begin

Unloading Instructions

A typical shipment includes precast concrete bases, galvanized steel poles, electrical components enclosures, wire harnesses, and poletop luminaire assemblies with luminaires.

- For ease of installation, set all matched components by the proper pole location as noted on the Field Aiming Diagram.

Tools/Materials Needed

- Cone with nylon web sling or forklift (load aided)
- Hammer
- Pry bar
- Banding cutters

Warning

Crushing hazard. Product is heavy and may roll.

Do not cut shipping bands or remove blocking from concrete bases or poles until they are supported by unloading equipment.

Use proper pick-up procedures conforming with local regulations when lifting concrete bases and poles. Balance point may not be at midpoint of base or pole.

- Check bill of lading to verify you have all materials.
- Inspect all materials for shipping damage.
- Store electrical components enclosures and luminaires in a dry location or cover with tarp until ready to install.

- Painted poles require special handling, see Instructions: Painted Pole Special Requirements.

- If additional information is needed, contact your local Musco representative.

- Save wooden shipping blocks to use during pole assembly.

- Please recycle. Luminaires, wire harnesses, and other components are shipped in recyclable cardboard packaging.



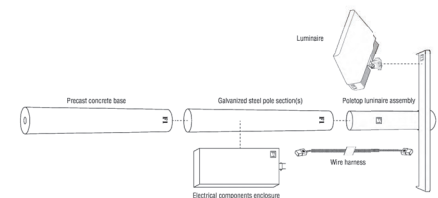
Installation Instructions: **Light-Structure System™**

Before You Begin

Components Matching and Labeling

Pole locations are identified by a pole ID (A1, A2, B1, B2, etc.) on the Field Aiming Diagram. These IDs are also marked on the internal components:

- Poletop luminaire assemblies, bolt-on crossarms, and luminaire shipping cartons
- Wire harnesses
- Electrical components enclosures
- Galvanized steel pole sections
- Precast concrete bases



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PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

SHEET TITLE:
LIGHT FIXTURE AND POLE

SHEET NUMBER
E310

DATE: 05-09-2024

Installation Instructions: Light-Structure System™

Pole Setting and Alignment

Overview

All luminaires are factory aimed to their exact position on the field. To ensure the proper pole orientation, a simple-to-use pole alignment beam completes the precision field aiming. The pole alignment beam is attached in the factory to each pole.

Tools/Materials Needed

Musco Supplies

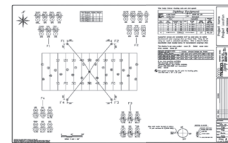
- Field Aiming Diagram
- Steel chain
- Steel bar
- Pole rotator kit
- Dishwashing liquid (original Dawn®, ECOS® ho, or DAWN® brand)
- Level

Contractor Supplied

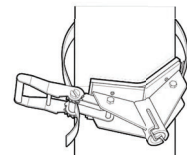
- Chalk or pencil
- Load-rated shackles as required
- Load-rated nylon slings as required
- Spray paint, chalk, or flags (to mark aiming points on field)
- Two 1½ ton chain come-alongs

Installation Procedure

1. Verify pole ID matches precast concrete base and pole location on Field Aiming Diagram.
2. Mark aiming points on field using Field Aiming Diagram. Poles may have individual aiming points or may all be aimed to a common point.
3. Lubricate concrete base with provided dishwashing liquid.



4. Attach pole rotator clamp approximately 12 in (300 mm) above bottom of pole. Wrap strap around pole and cinch tightly.



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Installation Instructions: Light-Structure System™

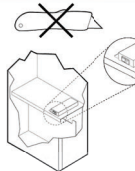
Pole Setting and Alignment

4. Remove temporary protective cover from luminaires (if present). Do not use knife.

Warning

Laser radiation hazard
Pole alignment beam is safe for viewing at a distance of three feet (one meter) or more. Do not look into beam from closer than three feet (one meter).

5. Turn on alignment beam and check. Device has toggle switch inside electrical components enclosure. For poles with platforms, alignment beam device has a rotary switch located on the back of the alignment device.

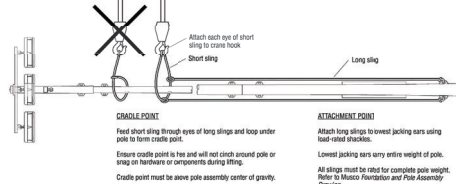


6. Follow these instructions carefully. Do not choke pole or lift from crossarms.

7. Sling pole using this recommended method (see illustration). You must lift pole from lowest section. Friction between assembled sections will not hold pole together when lifting. To keep pole upright when lifting, ensure cradle point is above pole center of gravity. Ensure cradle point is free and will not cinch around pole or engage hardware or components during lifting.

Warning

Improper rigging can cause pole sections to separate and fall.
Follow these instructions carefully. Do not choke pole or lift from crossarms.



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Installation Instructions: Light-Structure System™

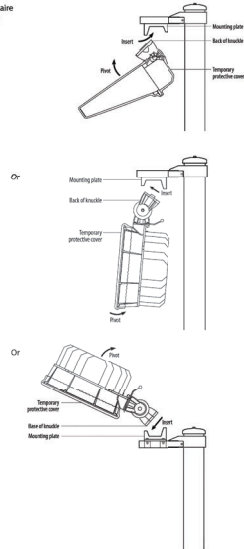
Luminaire Attachment

2. Match luminaire ID to crossarm and install luminaire onto mounting plate. Insert back of knuckle into mounting plate and pivot into position.

Note: The luminaire style may vary from what is shown.

Luminaire	Weight
TLC-LED-330	25 lb (11 kg)
TLC-LED-400	40 lb (18 kg)
TLC-LED-500	25 lb (11 kg)
TLC-LED-550WR	38 lb (17 kg)
TLC-ET-575	34 lb (15 kg)
TLC-LED-600	40 lb (18 kg)
TLC-LED-900	40 lb (18 kg)
TLC-LED-900RB	114 lb (52 kg)
TLC-LED-1150	80 lb (36 kg)
TLC-LED-1200	45 lb (20 kg)
TLC-LED-1400RB	100 lb (45 kg)
TLC-LED-1500	67 lb (30 kg)
TLC-RGB-UJ	20 lb (9 kg)
TLC-RGBW	40 lb (18 kg)
TLC-LED-550WR	38 lb (17 kg)

3. Luminaire may be heavy. Lift carefully with two people to avoid injury.



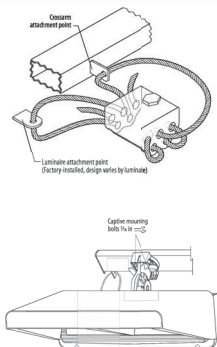
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Installation Instructions: Light-Structure System™

Luminaire Attachment

3. Attach luminaire retaining cable (if present). Route luminaire cable through crossarm anchor point, through luminaire block, and back through the block under the set screw. Luminaire attachment point will vary per luminaire design.

4. Using ½ in socket and torque wrench, tighten cable set screw to 60 in-lb (6.8 N-m).



5. Tighten captive mounting bolts. Orangetag will break loose before all bolts are fully tight - continue tightening. Torque must not exceed 20 ft-lb (27 N-m). To avoid overtightening, use provided ½ in combination wrench.

6. Warning: Luminaire may fall if bolts are not tight. Do not remove tag before tightening bolts.

7. See Installation Instructions: Climbing Steps and Safety Cable, if your project includes these items.

8. Warning: Pole rotation may be required to assemble all components onto the pole. Do not stand under pole when lifting. Steady pole with two people holding crossarms. Allow for pole to safely rotate around when it is high enough for crossarms and electrical components enclosures to clear the ground.

9. Caution - Equipment Damage: Properly support pole to ensure components do not get damaged. Do not attach components to pole without the pole being properly supported.

10. If pole has auxiliary equipment, refer to installation instructions: Auxiliary Brackets.



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Installation Instructions: Light-Structure System™

Luminaire Attachment

Overview

Luminaires are factory built and shipped in individual cartons. They are aimed in the factory and ready for installation. Do not disassemble knuckle.

Tools/Materials Needed

Musco Supplies

- ½ in ratcheting combination wrench
- Note: Leave luminaires in box until ready to assemble. Keep protective cover on luminaire until ready to set pole. Do not leave luminaires unassembled from crossarm in wet conditions.

Contractor Supplied

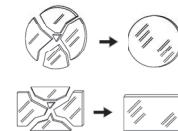
- Torque wrench with ½ in socket

Caution

No User Serviceable Parts

If protective lens glass is cracked or broken, luminaire must be replaced.
Luminaire light source is not replaceable when light source reaches end of life: entire luminaire must be replaced.

1. Contact your local Musco representative for maintenance or replacement.



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Installation Instructions: Light-Structure System™

Luminaire Attachment

Assembly Procedure

1. Verify pole ID on luminaire cartons matches pole and location on Field Aiming Diagram.

2. Remove and discard orange protective caps from luminaire knuckle and mounting plate that cover electrical connections. Do not remove orange tag around captive bolts.

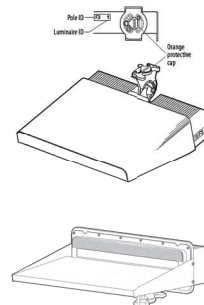
Note: The luminaire style may vary from what is shown.

Warning

Pole rotation may be required to assemble all components onto the pole. Do not stand under pole when lifting. Steady pole with two people holding crossarms. Allow for pole to safely rotate around when it is high enough for crossarms and electrical components enclosures to clear the ground.

Caution - Equipment Damage

Properly support pole to ensure components do not get damaged. Do not attach components to pole without the pole being properly supported.
Some luminaires may attach to auxiliary brackets, refer to installation instructions: Auxiliary Brackets.

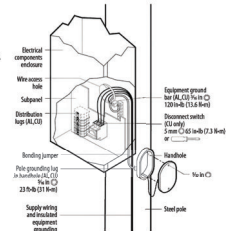


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Installation Instructions: **Light-Structure System™**

Connecting to Supply Wiring

- Remove handhole cover using 5/16 in. hex key. Route supply wiring through access hub into electrical components enclosure.
- Connect insulated equipment grounding conductor (supply) to ground bar. Tighten lug using 5/16 in. hex key.
- Disconnect is rated for copper wire only. Contact Musco for adapter or use UL Listed adapter for aluminum supply wire.
- Connect phase wires (supply) to disconnect switch. Tighten lugs using standard screwdriver (45 A disconnect) or 5 mm hex key (125 A disconnect). Connect neutral wire (if used) to distribution lug. Tighten lug using standard screwdriver.



Disconnect Wiring Information

Disconnect Rating	Terminal	Wire Size Range	Strip Length	Torque
45 A	L	12–14 AWG (4–25 mm²)	0.63 in (16 mm)	25 in-lb (2.8 Nm)
	N	16–14 AWG (1.3–25 mm²)	0.56 in (14 mm)	27 in-lb (3.1 Nm)
	G	14–20 AWG (2.5–50 mm²)**	NA	120 in-lb (13.6 Nm)
125 A	L	10–2 AWG (6–35 mm²)	0.63 in (16 mm)	50 in-lb (5.6 Nm)
	N	1–20 AWG (40–50 mm²)	0.63 in (16 mm)	65 in-lb (7.3 Nm)
	G	16–10 AWG (1.3–50 mm²)	0.71 in (18 mm)	33 in-lb (3.7 Nm)
		14–20 AWG (2.5–50 mm²)**	NA	120 in-lb (13.6 Nm)

*Stranded cable, single conductor, copper only

**Stranded cable, single conductor, copper or aluminum



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Installation Instructions: **Light-Structure System™**

Connecting to Supply Wiring

- Route provided equipment bonding jumper (green/yellow) through access hub to pole grounding lug inside handhole. Tighten lug using 5/16 in. hex key.
- Ensure all handhole covers are installed and electrical components enclosure is closed and latched.
- If your project includes a supplemental grounding electrode kit, follow instructions in kit for installing electrode.

Warning

Risk of electric shock.

Terminate equipment grounding conductor at equipment ground bar in electrical components enclosure.

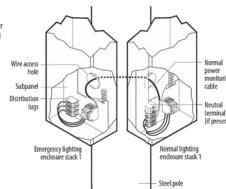
Warning

Lightning hazard.

For poles located near metal fences, metal bleachers, or other metal structures, bond structures to pole ground to maintain equal electrical potential.

Note: Skip step 8 if no emergency egress lighting is present.

- Route cable for normal power to adjacent enclosure stack. Connect black wire and blue/white wire to any two active terminals A, B, C, or neutral, if present, and green wire to ground bar.

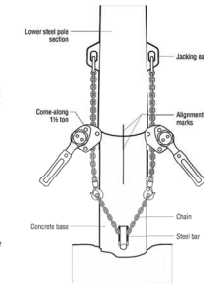


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Installation Instructions: **Light-Structure System™**

Pole Setting and Alignment

- Once pole is aligned, use level to draw a thin vertical alignment mark on pole and concrete base. Use mark to verify alignment is maintained while jacking pole (step 11) and jacking onto base (step 12).
- Lower pole into position. Hold pole rotator bar to maintain alignment until pole seats on base. Remove rotator bar and clamp.
- Insert provided steel bar through base. Wrap provided chain around base below steel bar. Attach two 10-ton come-alongs to provided chain directly below jacking ears. If ears align parallel with steel bar, do not use chain. Pull pole down onto base keeping marks aligned. Ensure minimum overlap per Musco Foundation and Pole Assembly Drawing.
- If pole seats out of alignment, contact Musco to request separating tools. See Installation Instructions: *Separating Steel Pole from Concrete Base*.
- If pole has climbing steps and safety cable, use Installation Instructions: *Climbing Steps and Safety Cable* for cable tensioning instructions.



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Installation Instructions: **Light-Structure System™**

Pole Setting and Alignment

Warning

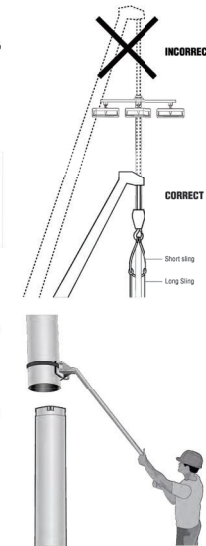
Crushing hazard

Pole can rotate with force, causing injury. Do not stand under pole when lifting. Steady pole with two people holding crossarms. Allow pole to safely rotate around when it is high enough for crossarms and electrical components enclosures to clear the ground.

- Lift pole. Use care to avoid dragging bottom of pole. Keep crane head below crossarms.

Watch for these signs to ensure you are lifting pole properly.

- Short sling slides freely up the pole and long slings tighten.
- Top of pole rises first.
- Short sling does not choke or snag on pole.
- Lowest jacking ears carry entire weight of pole.



- When pole is suspended, insert rotator bar to clamp and turn to lock in place. Guide pole into position over base using rotator bar and lower onto base. Do not allow pole to seat on base until it is properly aligned (step 6). Pole should rotate with considerable force applied to bar, but not freely.

Warning

Pinching hazard

Keep hands clear when setting pole on concrete base.



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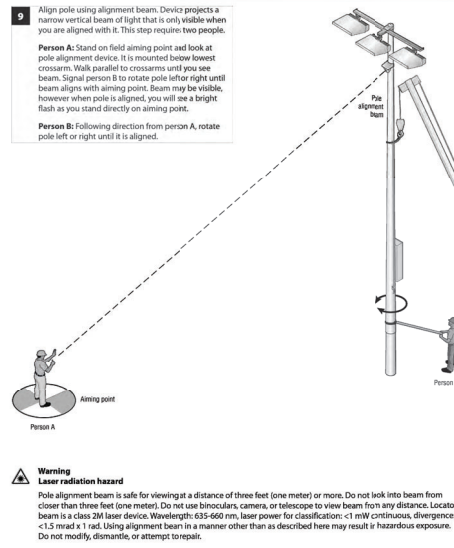
Installation Instructions: **Light-Structure System™**

Pole Setting and Alignment

- Align pole using alignment beam. Device projects a narrow vertical beam of light that is only visible when you are aligned with it. This step requires two people.

Person A: Stand on field aiming point and look at pole alignment device. It is mounted below lowest crossarm. Walk parallel to crossarms until you see beam. Signal person B to rotate pole left or right until beam aligns with aiming point. Beam may be visible, however when pole is aligned, you will see a bright flash as you stand directly on aiming point.

Person B: Following direction from person A, rotate pole left or right until it is aligned.



Warning

Laser radiation hazard

Pole alignment beam is safe for viewing at a distance of three feet (one meter) or more. Do not look into beam from closer than three feet (one meter). Do not use binoculars, camera, or telescope to view beam from any distance. Laser beam is a class 2M laser device. Wavelength: 635-660 nm, laser power for classification: <1 mW continuous, divergence: <1.5 mrad x 1 rad. Using alignment beam in a manner other than as described here may result in hazardous exposure. Do not modify, dismantle, or attempt to repair.

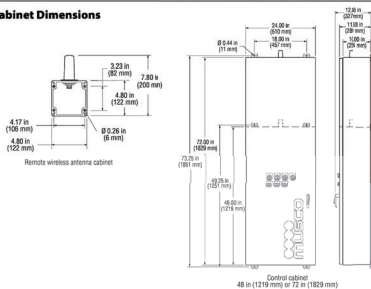


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Installation Instructions: Control-Link® Control and Monitoring System

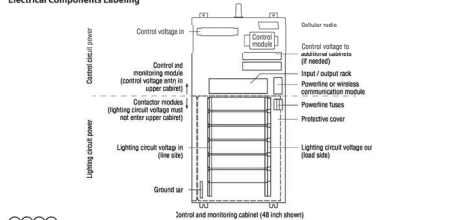
Before You Begin

Cabinet Dimensions



Component Matching and Labeling
Musco labels all equipment to make installation easy. Components, cabinets, wiring, and connectors are all clearly marked with location, function, or any information needed for proper installation.

Electrical Components Labeling



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Installation Instructions: Control-Link® Control and Monitoring System

Before You Begin

Safety Information

Electrical Safety Guidelines
Use extreme caution near overhead power lines or underground utilities. Observe all safety precautions for high-voltage equipment. Only qualified personnel may perform wiring. Follow all applicable building and electrical codes.

General Safety Guidelines
Follow proper safety procedures during installation. Installers must wear appropriate personal protective equipment, including eye protection.
Locate all underground utilities before digging.

All tools and equipment Musco supplies are designed for a specific use as described in these instructions. Do not use them in any other manner. Do not alter structural members in any way, such as bending, welding, or drilling, without prior authorization from Musco.

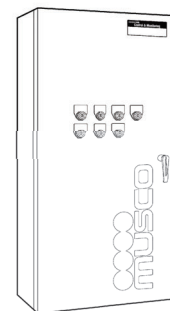
About These Instructions

These instructions detail basic installation procedures for the Control-Link® control and monitoring system. They are not a comprehensive guide to all possible situations. Direct any questions to Musco at +1-800-825-6020 or +1-641-676-2309 or call your local representative.

- The safety alert symbol alerts you of situations that require care and caution to avoid serious personal injury.
- The stop and check symbol signals you to stop and verify conditions before proceeding.
- The contact Musco symbol appears in special situations where you may need to call Musco for further information.
- The go-to arrow tells you when to find further instructions for special situations or optional features.
- The tip symbol points out advice that makes installation easier.
- The recycle symbol identifies recyclable materials.

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Installation Instructions: Control-Link® Control and Monitoring System



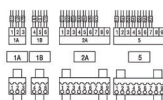
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Installation Instructions: Control-Link® Control and Monitoring System

Before You Begin

Wire and Connector Labeling

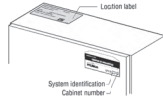
All cabinets are factory wired. Musco provides plug-in connectors to run harnesses between cabinets. The connectors are clearly labeled for easy installation.



Cabinet Labeling

Each enclosure is custom fabricated for a specific location in your facility. To ensure installation at the correct location, the top of each cabinet is labeled with the facility name and electrical service.

A label in the upper right corner of the door identifies each cabinet. This label gives the control module ID and cabinet sequence. For example: 01-1 (first control module, first cabinet), 01-2 (first control module, second cabinet). See Control System Summary for a complete list of all supplied equipment.



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Installation Instructions: Control-Link® Control and Monitoring System

Before You Begin

Electrical System Requirements

Only a qualified electrician may perform electrical work. Follow all applicable code requirements. Ensure your electrician reviews the following information before beginning installation.

- Ensure supply wiring is rated for 90 °C.
- Size circuit breakers for full load amperage draw of each circuit. Refer to cabinet interior door label for short circuit current rating information.
- A transformer may be required to supply control power. See Control Power Consumption table in Control System Summary.
- The control system requires power at all times for manual lighting control, scheduling, monitoring, and communication with Musco's Control-Link Central™ service center. Only switch off power for maintenance. Supply a breaker lock-on device.

Control System Summary

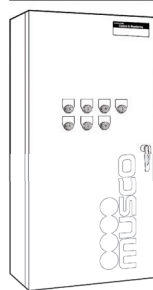
Musco supplies a Control System Summary for every project. This document is necessary for system design and pre-installation planning. It contains project-specific details you need for installation. Here are the contents:

- Project information
 - Project details
 - Contact information
 - References to documents such as lighting design scan
 - Voltage, frequency, and phase
 - Control voltage
- Materials checklist
 - A quick reference of everything you supply for the project
- Equipment listing
 - Cabinets
 - Connectors and sizes
 - Switches
- Important installation notes
- Control system diagram
 - Cabinet layout
 - Wire runs and conduit details
 - Switching schedule
 - Fields and lighting zones
- Control power consumption
 - Control voltage and phase requirements
 - Volt-amp loading of control system
- Driver specifications
 - Luminaire current by voltage
 - Driver power factor
- Circuit summary by zone
 - Switching zone details (pole, number of luminaires, field, connector ID, zone)
 - Full load current draw for each circuit
- Panel summary
 - Panel layout by circuit
 - Service control module location for each circuit/connector
- Zone schedule
 - Field/circuit grouping by zone/selector switch

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Installation Instructions: Control-Link® Control and Monitoring System

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DATE: 9 September 2024
PATHNAME: G:\21569\EL\Sheets
DRAWING FILENAME: 22-569E401
DRAFTER: CMZ
TIME: 9:13 am

Drawn by: CMZ, Date: 09/09/2024
Checked by: CMZ, Date: 09/09/2024
Reviewed by: CMZ, Date: 09/09/2024
Approved by: CMZ, Date: 09/09/2024
Project: BORCHARD PARK SKATEPARK
Thousand Oaks, CA
Scale: 1"=30'-0"



POWER PLAN - NEW WORK
SCALE: 1"=30'-0"

SHEET NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
5. 1" CONDUIT MINIMUM UNDERGROUND.
6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. VERIFY LOCATION OF ALL DEVICES ON CIVIL PLANS.
8. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

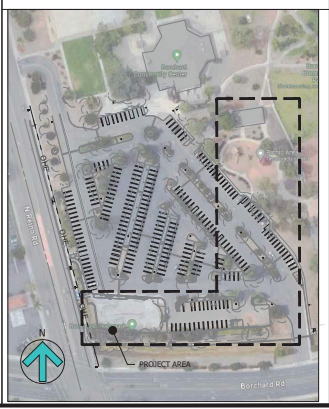
ALL ITEMS NOT NOTED AS EXISTING, SHALL BE NEW.

KEY NOTES:

1. ADD NEW BREAKER PER E200.
2. ROUTE FEEDER PER E200 ACROSS CEILING TO EXTERIOR, CORE WALL & SEAL PROVIDE 1/2" CONDUIT VIA C/CAL TO UNDERGROUND. PROVIDE PVC COATED RIGS ON EXTERIOR AREAS TO THE PVC SCHEDULE 80 TRANSITION TO UNDERGROUND.
3. SAW CUT CONCRETE SLAB & DOWEL WITH NEW 8" CONCRETE REPLACEMENT SECTION PROVIDE CONCRETE SLURRY IN TRENCH OVER PVC CONDUIT TO NEW CONCRETE COVER WITH 24" MINIMUM COVER & TRACER WARNING TAPE ABOVE. PROVIDE 2" SHIELD CONDUIT STUB UP & ROUTE INTO BUILDING & EXTEND 2' C UNDER SAW CUT CONCRETE OUT FROM EDGE OF CONCRETE 36" & CAP. PROVIDE LOCATION ON AS-BUILTS.
4. CONCRETE PAD & EQUIPMENT PER E410 & E600 DETAIL INCLUDES NON FUSED PRIMARY DISCONNECT ON TRANSFORMER, FUSED DISCONNECT ON TRANSFORMER SECONDARY & PROVIDE NEC WORKING CLEARANCES PER ARTICLE 110-36.
5. FEEDER PER E200/E600.
6. PULL BOX PER E200/E600.
7. HORIZONTAL BORE TO 6 PER E200.
8. PULL BOX PER E200/E600.
9. FEEDER PER E200/E600.

VERIFY ALL BORE PIT & PULLBOX LOCATIONS WITH CLIENT'S PROJECT MANAGER.

KEY MAP



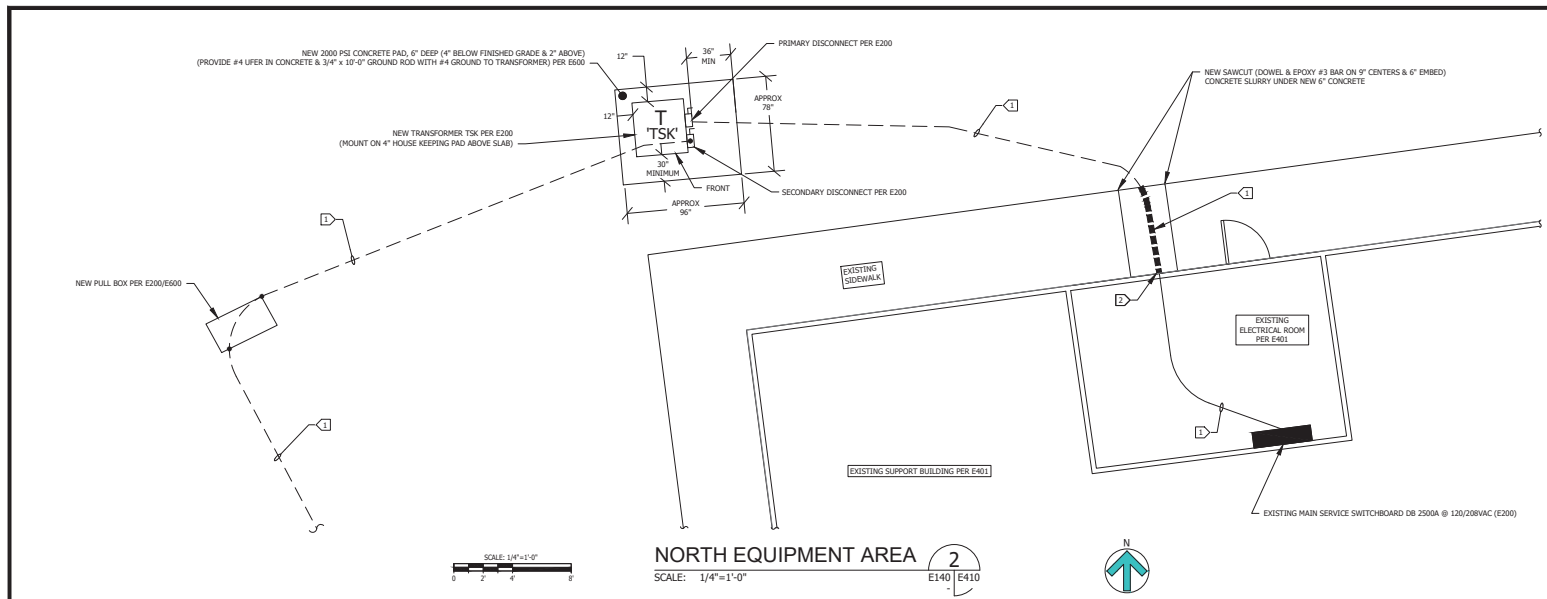
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NO.	ISSUE / REVISION	DATE	DRAWN	REVIEWED
001	50% CD PACKAGE	02/12/2023	KM	ZW/JS
002	50% CD PACKAGE	10/12/2023	KM	ZW/JS
003	50% CD PACKAGE	10/12/2024	KM	ZW
004	100% CDs	09/19/2024	KM	ZW



LUCI & ASSOCIATES
CONSULTING ELECTRICAL ENGINEERS
CARMELITA, CA 95021-4094
(408) 389-6550 FAX (408) 389-6019
We warrant that the design and construction of the project shall conform to the applicable laws, codes, and standards in effect at the time of the design and construction of the project.

PROJECT: BORCHARD PARK SKATEPARK THOUSAND OAKS, CA
SHEET TITLE: POWER PLAN - NEW WORK
SHEET NUMBER: E401
DATE: 05-09-2024

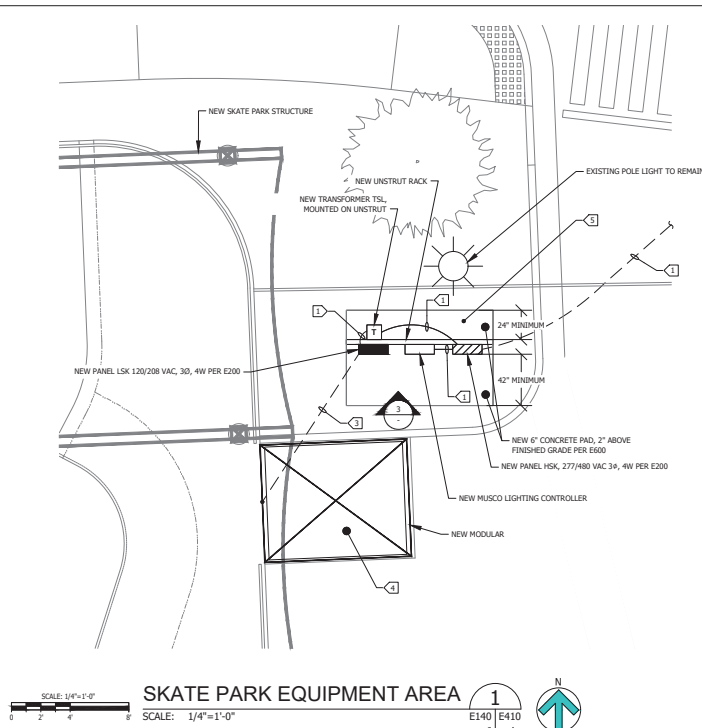
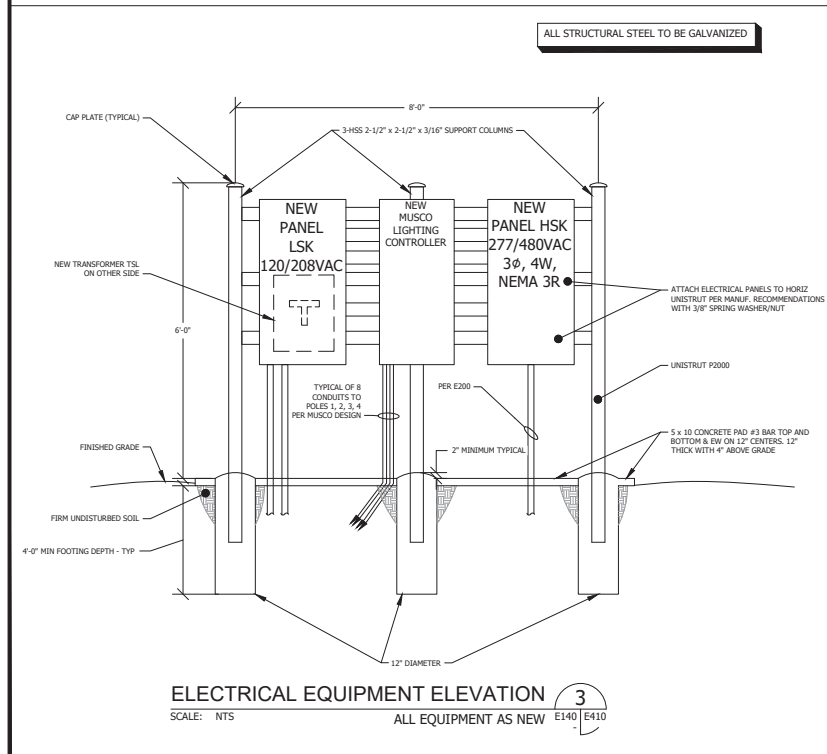


GENERAL NOTE:

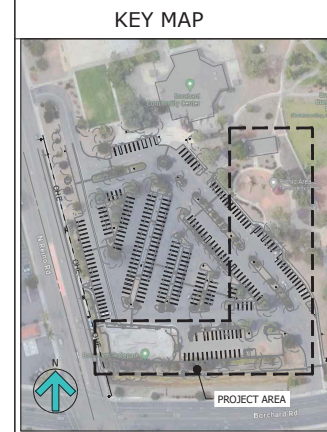
1. ALL CONDUIT RISERS SHALL BE PVC COATED RGS.

KEY NOTES:

- 1 NEW FEEDER PER E200/E401/E600.
- 2 NEW LB CONDULET.
- 3 NEW 1" C.O. FROM PANEL LSK TO MODULAR POWER INPUT (CONNECT TO CONTAINER WITH LOCATION PER CLIENTS PROJECT MANAGER).
- 4 NEW GROUND CONNECTION TO MODULAR WITH #4 COPPER GROUND CONNECTED TO 3/4" x 10' x 0" GROUND ROD (SEE DETAIL #E600).
- 5 PROVIDE EXOTHERMIC CONNECTIONS & #4 GROUND TO (2) 3/4" x 10' GROUND RODS (PER DETAIL E600 EACH ROD) & DETAIL 2 E600 UFER.



PROVIDE NEC 110-26 WORKING CLEARANCE IN FRONT OF ALL ELECTRICAL EQUIPMENT



NO.	ISSUE/REVISION	DATE	DRAWN	REVIEWED
001	50% CD PACKAGE	02/15/2023	KM	ZW/JIS
002	75% CD PACKAGE	10/12/2023	KM	ZW/JIS
003	90% CD PACKAGE	04/01/2024	KM	ZW
004	100% CDs	09/19/2024	KM	ZW



Lucci and Associates Consulting Electrical Engineers
CONSULTING ELECTRICAL ENGINEERS
CAMILLO, CA 94002-8094
(650) 388-6680 FAX (650) 388-6619
www.lucciandassociates.com
I am a duly Licensed Professional Engineer in the State of California, License No. E 8340, and I am the author of the above project. I am not providing this project to any other party without the written consent of Lucci and Associates Consulting Electrical Engineers.

PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

SHEET TITLE:
OVERALL AREA POWER PLAN - NEW WORK

SHEET NUMBER

E410

DATE: 05-09-2024

GENERAL NOTES

- ALL WORK SHALL CONFORM WITH THE 2022 CALIFORNIA BUILDING CODE, AND ALL LOCAL ORDINANCES.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO STARTING CONSTRUCTION AND REPORT TO THE ATTENTION OF THE ENGINEER ANY DISCREPANCIES OR INCONSISTENCIES.
- NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, BORED OR OTHER WISE WEAKENED EXCEPT AS ALLOWED BY THE CALIFORNIA BUILDING CODE OR APPROVED ENGINEERING.
- THE ENGINEER SHALL BE NOTIFIED OF ANY UNUSUAL OR UNFORESEEN CONDITION WHICH AFFECTS THE STRUCTURAL STABILITY OF THE BUILDING PRIOR TO CONTINUING WITH CONSTRUCTION. SHOULD ANY CONDITION ARISE WHERE THERE APPEARS TO BE AN ERROR ON THE DRAWINGS OR A DISCREPANCY BETWEEN THE DRAWINGS AND CONDITIONS IN THE FIELD, THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUING WITH THE WORK.
- IN THE CASE WHERE TWO OR MORE DETAILS APPLYING TO THE SAME PART OF THE WORK ARE IN CONFLICT, THE MOST RESTRICTIVE SHALL GOVERN UNLESS CLARIFIED OR OTHERWISE APPROVED BY THE ENGINEER.
- REVIEW OF SHOP DRAWINGS REQUIRES REVIEW OF GENERAL METHOD OF FABRICATION ONLY. DIMENSIONS AND QUANTITIES MAY NOT BE CHECKED, AND REVIEW OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, SPECIFICALLY SO INDICATED IN THE REVIEW.
- THE ENGINEER HAS NOT BEEN RETAINED FOR SUPERVISION OR INSPECTION DURING CONSTRUCTION, BUT WILL RESOLVE STRUCTURAL ITEMS BROUGHT TO HIS ATTENTION DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO PROTECT PERSONNEL AND ADJACENT PROPERTY DURING CONSTRUCTION. THE CONTRACTOR SHALL ADEQUATELY BRACE ELEMENTS OF THE STRUCTURE DURING CONSTRUCTION TO INSURE THE SAFETY OF THE STRUCTURE.
- (B) INDICATES EXISTING CONDITION OR MEMBER, (B) NEW.

SPECIAL INSPECTIONS

PROVIDE SPECIAL INSPECTION BY A LICENSED QUALITY INSPECTOR APPROVED BY THE LOCAL BUILDING OFFICIAL FOR THE FOLLOWING WORK IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE CALIFORNIA BUILDING CODE.

- FOR ALL "POST-INSTALLER" ANCHORS, (PRE)MECHANICAL EXPANSION BOLTS AND BORED THREADED RODS (ANCHORS).

EQUIPMENT ANCHORAGE

THE EQUIPMENT SHALL BE ANCHORED TO THE NEW 8" THICK CONCRETE PADFOOT WITH LIFTOFF STRONG-BOLT 7. STAGGERED STEEL WEDGE ANCHORS PLACED IN THE EXISTING HOLES AT THE BASE OF THE EQUIPMENT PER THE TABLE BELOW.

PRE-DRILLED ANCHOR TYPE	HOLE SIZE	HOLE DEPTH	ANCHOR (FT. L.B.)
LIFTOFF STRONG-BOLT 7	1" DIA.	12" MIN.	80

ALL ANCHORS SHALL BE STAINLESS STEEL, SIMPSON STRONG-BOLT 7. EXPANSION ANCHORS INSTALLED PER E.C.D. 801 - 801 W/ SPECIAL INSPECTION REQUIRED BY A LICENSED QUALITY INSPECTOR.

THE CONTRACTOR SHALL LOCATE ALL EXISTING SLAB HORIZONTAL REINFORCING STEEL PRIOR TO DRILLING FOR EXPANSION ANCHORS TO AVOID DAMAGING SLAB REINFORCING STEEL.

FOUNDATION

THERE IS NO SOIL REPORT FOR THIS PROJECT AND AN ASSUMED SOIL BEARING VALUE OF 3,000 PSF (WT.) HAS BEEN USED IN THE DESIGN OF THE A/C PAD.

THE NEW FOUNDATION SHALL BEAR A MINIMUM OF 8" INTO FIRM, UNDISTURBED SOILS. THE CONTRACTOR SHALL "BRACKET" THE SOILS UNDERMINING THE NEW PADFOOT AS NECESSARY.

CONCRETE

ALL CONCRETE UNLESS OTHERWISE SHOWN ON THE PLANS SHALL BE HARDENED CONCRETE TO ASTM C-119 WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF $f'_c = 3,000$ PSI.

AGGREGATE FOR THE CONCRETE SHALL CONFORM TO ASTM C-33, INCLUDING APPENDIX "C".

THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS FOR MIXING, PLACING, FINISHING, CURING, AND PROTECTING CONCRETE DURING UNFAVORABLE WEATHER CONDITIONS.

ALL REINFORCING STEEL SHALL BE NEW STOCK DEFORMED BAR CONFORMING TO ASTM A-633, GRADE 60 EXCEPT AS BARS MAY BE GRADE 40. ALL WEATHER RESISTANT STEEL SHALL BE ASTM A-306. ALL BARS SHALL BE FREE OF RUST, GRAZE, MILL SCALE OR ANY OTHER MATERIAL WHICH MIGHT AFFECT ITS BOND TO THE CONCRETE. ALL BAR BENDS SHALL BE MADE COLD.

PROVIDE 1/4" CHAMFER ON ALL EXPOSED CORNERS.

BAR SPLICES SHALL BE LAP SPLICES W/ MIN. 40 BAR (DEAR LAP W/ AN 18" MINIMUM OVERLAP) OR WELDED. STAGGER LAP SPLICES OF MULTIPLE BARS, I.E. IN CONT. FOOTING OR 2 PLANE BARS TOP AND BOTTOM STAGGER TOP BAR LAP SPLICES AND STAGGER BOTTOM BAR LAP SPLICES. SPLICES DO NOT HAVE TO BE STAGGERED BETWEEN TOP AND BOTTOM BARS.

REINFORCING BARS SHALL HAVE THE FOLLOWING CONCRETE COVER, UNLESS NOTED OTHERWISE IN DETAILS:

CONCRETE COVER AGAINST EARTH..... 3 INCHES

CONCRETE BARS AND COLUMN..... 3 INCHES

CONCRETE SLABS ABOVE GRADE..... 1 INCH

DETAILS SHALL BE REINFORCED IN THE PERIMETERS OF 1 PART PORTLAND CEMENT TO 2-1/2 PARTS SAND WITH PRODUCE LUMBER TO PROVIDE A STIFF FILL. CONCRETE SHALL BE PRODUCE LUMBER AND PRODUCE LUMBER SHALL BE PRODUCE LUMBER.

THE SLUMP OF THE CONCRETE SHALL BE THE MINIMUM THAT IS PRACTICAL WHEN VIBRATORS ARE USED TO CONSOLIDATE THE CONCRETE. THE SLUMP SHALL NOT EXCEED 4 INCHES, OTHERWISE THE SLUMP SHALL NOT EXCEED 4 INCHES.

ALL CONCRETE SHALL BE ADEQUATELY CONSOLIDATED DURING PLACEMENT AND ALL REINFORCING STEEL AND EMBEDDED STEEL SHALL BE SECURELY TIED IN PLACE TO PREVENT DISAPPEARING DURING CONCRETE PLACEMENT.

EXCEPT WHERE INDICATED OTHERWISE, ALL REINFORCING STEEL SHALL BE BENT AND PLACED IN ACCORDANCE WITH THE "CODE OF STANDARD PRACTICE AND THE SPECIFICATIONS FOR PLACING REINFORCING STEEL" OF THE CONCRETE REINFORCING STEEL INSTITUTE.

UNDERGROUND SERVICE ALERT

CALL 811 FIRST

1-800-487-2200

THIS WARNING DEVICE BEFORE YOU DIG.

8" DIA. MECHANICAL EXPANSION ANCHOR PER NOTES TABLE ABOVE IS EACH SIDE OF EQUIPMENT.

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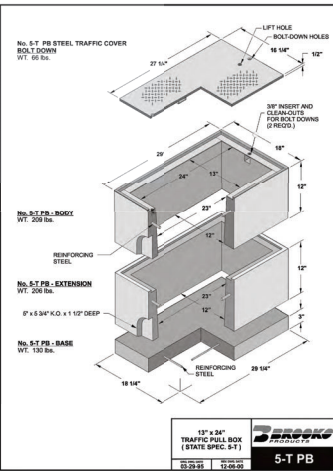
COVERED SOILS

COVERED SOILS

COVERED SOILS

TRANSFORMER INSTALLATION

SCALE: NTS



BROOKS PULLBOX

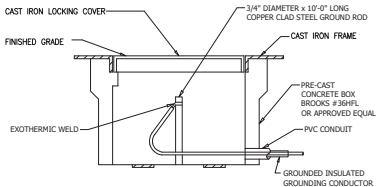
SCALE: NTS



NOT USED

SCALE: NONE

5
E600



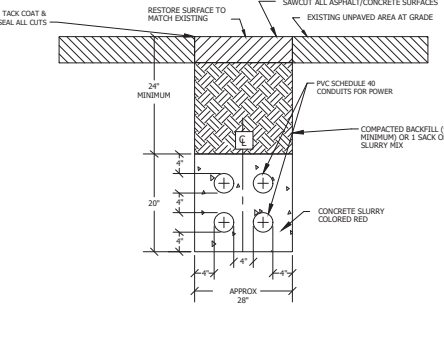
GROUNDING WELL DETAIL

SCALE: NONE

4
E600

DETAIL NOTES:

- ALL CONDUITS TO BE PROVIDED WITH METERED PULLWIRES THEIR ENTIRE LENGTH.
- ALL CONDUITS BENDS SHALL BE FACTORY BENDS WITH MINIMUM 12 TIMES DIAMETER. BEND RADIUS. ALL BENDS SHALL BE (PVC SCHEDULE 80).



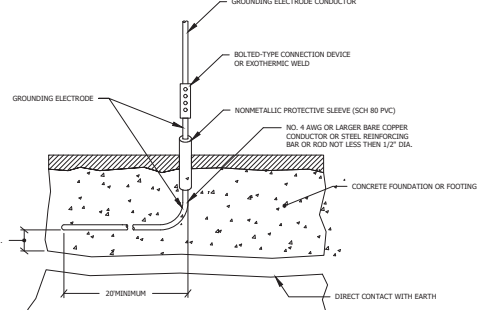
TYPICAL TRENCH DETAIL

SCALE: NTS VERIFY WITH SCE

3
E600

DETAIL NOTES:

- CONCRETE-ENCASED ELECTRODE: AN ELECTRODE ENCASED BY AT LEAST 2 INCHES (50 MM) OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 20 FEET (6.1 M) OF ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2 INCH (12.7 MM) DIAMETERS, OR CONSISTING OF AT LEAST 20 FEET (6.1 M) OF BARE COPPER CONDUCTOR NOT SMALLER THAN NO. 4, SEE PLANS FOR SIZE OF CONDUCTOR IF GREATER THAN #4.



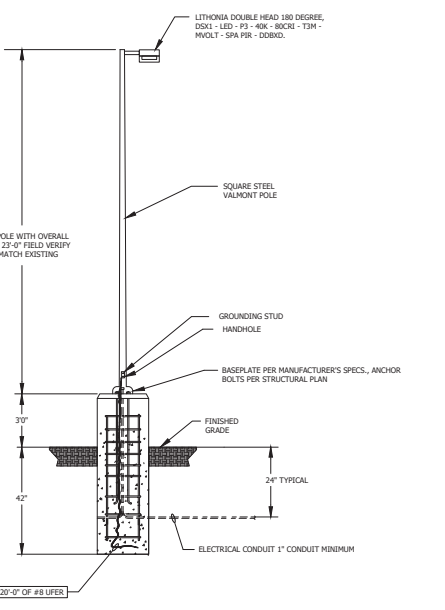
UFER GROUND DETAIL

SCALE: NONE

2
E600

DETAIL NOTES:

- USE COMPRESSION LUGS TO TERMINATE CONDUCTORS TO LIGHT FIXTURES.



NEW POLE / LIGHT PER FIXTURE SCHEDULE

SCALE: NONE

1
E600

NO.	ISSUE / REVISION	DATE	DRAWN	REVIEWED
001	100% CD PACKAGE	10/12/2023	CM	ZW/S
002	100% CD PACKAGE	10/12/2023	CM	ZW/S
003	100% CD PACKAGE	10/12/2023	CM	ZW
004	100% CD PACKAGE	09/19/2024	CM	ZW
005	100% CD PACKAGE	09/19/2024	CM	ZW



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www.lucciandassociates.com
I am a duly Licensed Professional Engineer in the State of California, License No. 8340, in the field of Electrical Engineering. I am not providing any services in any other state or country.

PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER

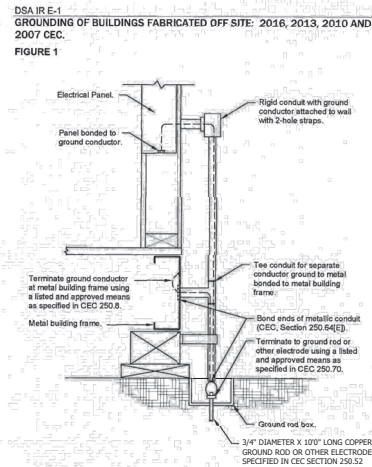
E600

DATE: 05-09-2024

GROUNDING OF MODULAR BUILDINGS

SCALE: NONE

1
E601



- NOTES:
1. Size of conductors shall comply with CEC, Table 250.66.
 2. Bond separate conductors from ground rod to electrical panel and to metal building frame. In addition to the detail shown above, bond the electrical ground to metal underground water pipe in direct contact with the earth for 10 ft. or more, if available. (CEC, § 250.52)
 3. All modules of metal frame buildings shall be electrically bonded together. (Bolting only is not acceptable bonding.)
 4. Check resistance to ground. If resistance exceeds 25 ohms, install additional ground rod six feet or greater away. Once the second ground rod is installed, additional ground resistance testing is not required. (CEC, § 250.53(A)(4)(B))
 5. Where modular buildings are grouped together, a ground rod may be installed at the end buildings and a ground ring may be installed between them. Each intermediate modular building may be grounded to that ground ring. Where this method is used, ground resistance testing shall not be required. (CEC, § 250.52(A)(6))
 6. Where modular buildings are installed on concrete foundations, a concrete-encased electrode (Ufer) ground shall be installed in the footing per CEC Section 250.52(A)(3).
 7. Other grounding methods identified in CEC Article 250 shall be acceptable means to achieve adequate grounding of metal buildings in compliance with the above.
- All metal building components must be electrically bonded together, and each building must be independently grounded. Multiple buildings are not to be grounded through the electrical system. All grounding systems are to be tested with a low-resistance ohmmeter, or in an otherwise acceptable manner. Refer to CEC Section 250.52 for specific grounding requirements.
- Grounding tests are to be observed and reported by the Project Inspector in their semi-monthly report (form DSA 155).



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NO.	ISSUE / REVISION	DATE	DRAWN	REVIEWED
001	50% CD PACKAGE	02/15/2023	KN	2N/JS
002	75% CD PACKAGE	07/17/2023	KN	2N/JS
003	100% CD PACKAGE	04/01/2024	KN	2N/JS
004	100% CDs	09/19/2024	KN	2N/JS



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PROJECT:
BORCHARD PARK
SKATEPARK
THOUSAND OAKS, CA

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER
E601

DATE: 05-09-2024