



Sunnyvale

# **PARKS AND RECREATION STANDARDS**

Revised September 8, 2022

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12" CONCRETE EDGEBAND WITH FENCE  
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42" CHAIN LINK FENCE  
6' TALL CHAIN LINK FENCE  
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10' TALL CHAIN LINK FENCE  
14' TALL CHAIN LINK FENCE  
16' TALL CHAIN LINK FENCE  
20' TALL CHAIN LINK FENCE  
42" ORNAMENTAL FENCE

**Drawing Number**

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4' WIDE X 42" TALL SWING GATE  
4' WIDE X 8' TALL SWING GATE  
4' WIDE X 8' TALL SWING GATE IN TALL FENCE  
8' WIDE X 8' TALL DOUBLE SWING GATE IN TALL FENCE  
20' WIDE X 42" TALL SLIDING GATE  
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**Drawing Number**

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BASKETBALL COURT STRIPING  
CRICKET FIELD STRIPING  
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TENNIS COURT STRIPING  
TENNIS COURT NET AND POSTS

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**Irrigation Details**

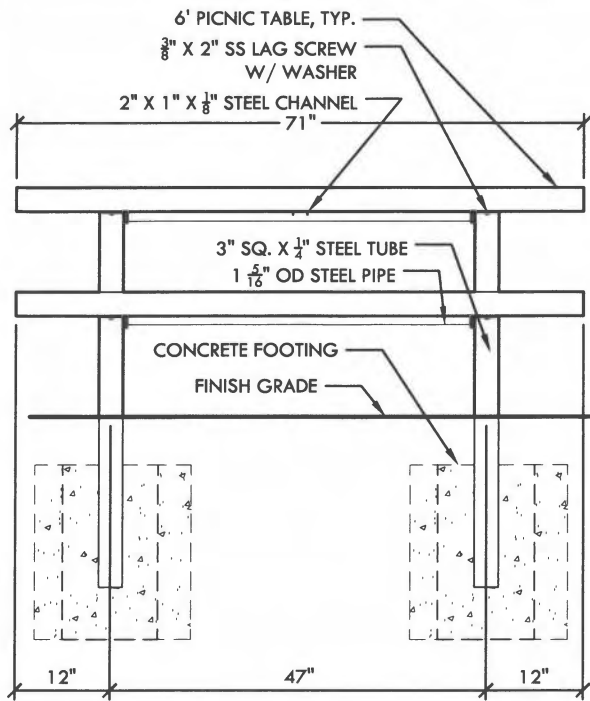
PEDESTAL MOUNT CONTROLLER  
TWO-WIRE CONNECTION  
IRRIGATION FLOW SENSOR INSTALLATION

**Drawing Number**

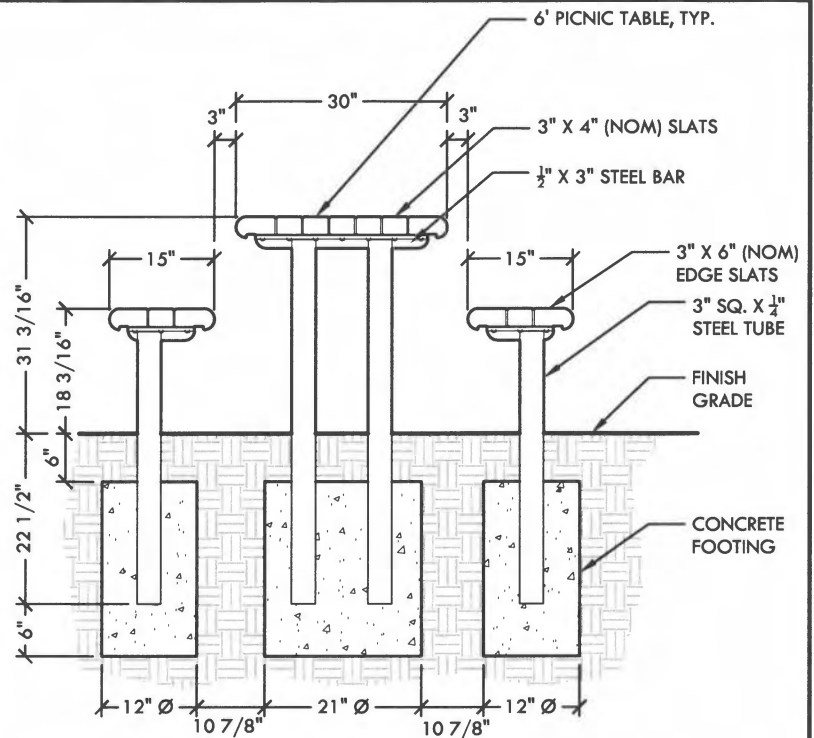
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|                                               |       |
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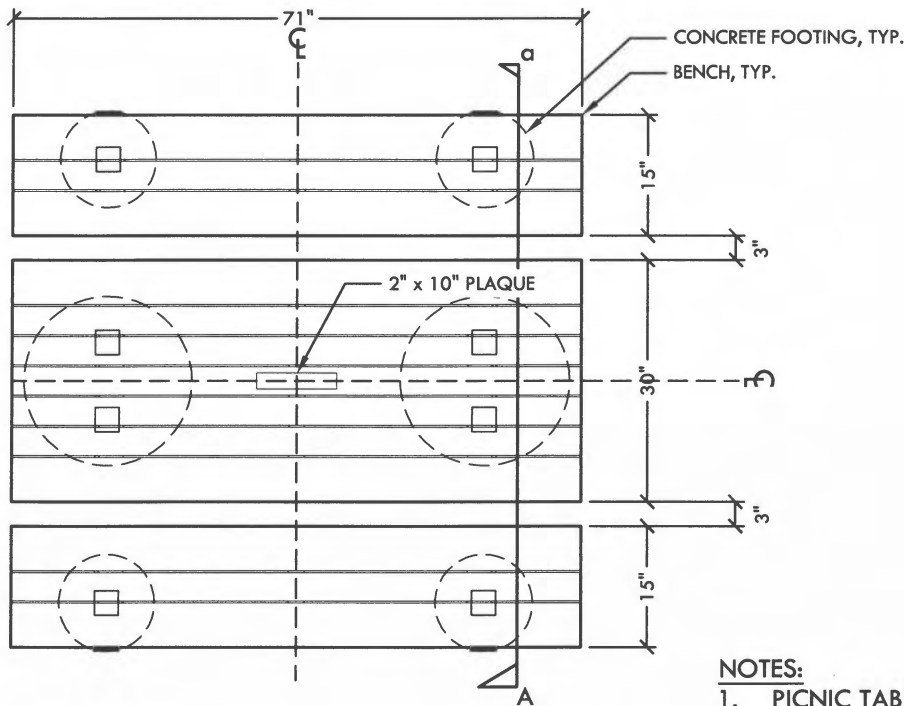
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**ELEVATION**



**SECTION A-a**



**PLAN**

**NOTES:**

1. PICNIC TABLE MODEL 100-60PL FROM DUMOR, INC.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. SLATS SHALL BE "CEDAR" RECYCLED PLASTIC
4. ALL STEEL MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING
5. POLYESTER POWDER COATING COLOR: BLACK
6. TABLES SHALL INCLUDE 2" X 10" PLAQUE WITH GROUP IDENTIFICATION NUMBER, CENTERED ON TABLE AS SHOWN

**6' PICNIC TABLE, EMBEDDED MOUNT**



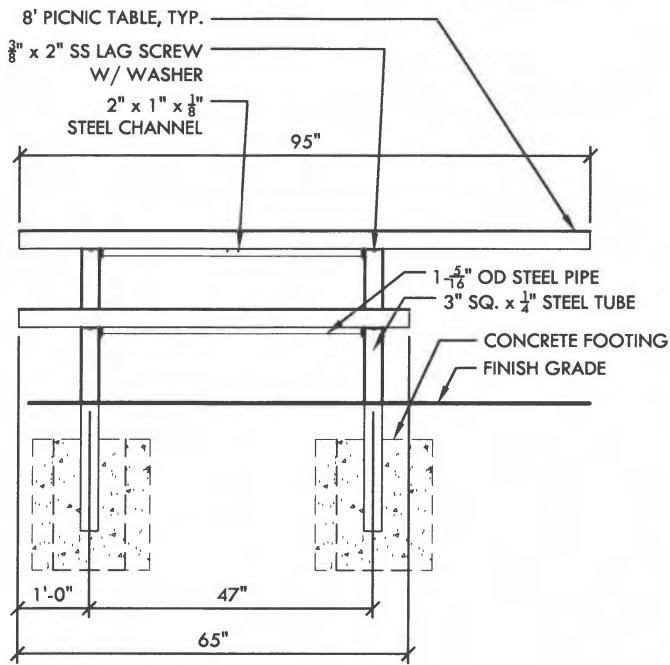
Sunnyvale

DATE: SEPTEMBER 22, 2021

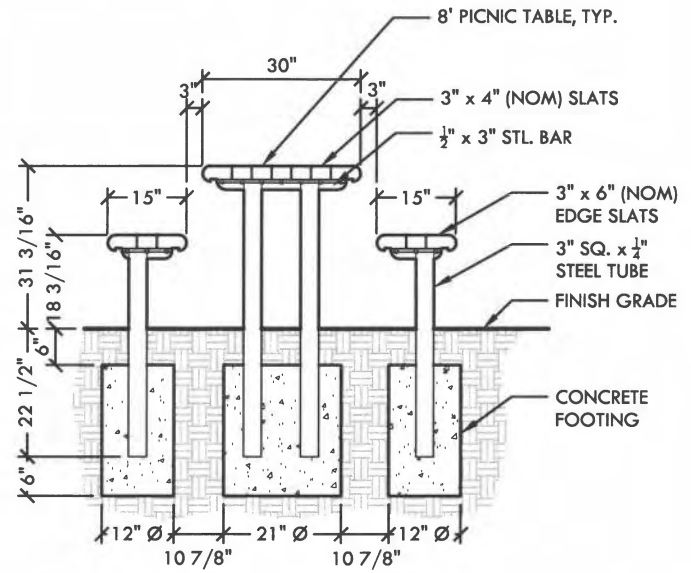
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DWG.

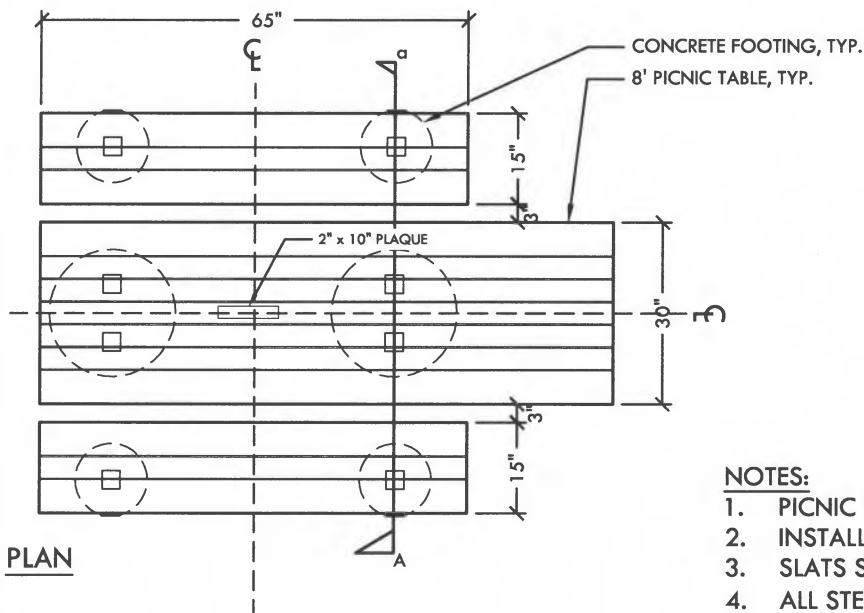
**PK-1A**



**ELEVATION**



**SECTION A-a**



**PLAN**

**NOTES:**

1. PICNIC TABLE MODEL 100-68-1 PL FROM DUMOR, INC.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. SLATS SHALL BE "CEDAR" RECYCLED PLASTIC
4. ALL STEEL MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING
5. POLYESTER POWDER COATING COLOR: BLACK
6. TABLES SHALL INCLUDE 2" X 10" PLAQUE WITH GROUP IDENTIFICATION NUMBER, CENTERED ON TABLE AS SHOWN

**8' ACCESSIBLE PICNIC TABLE,  
EMBEDDED MOUNT**



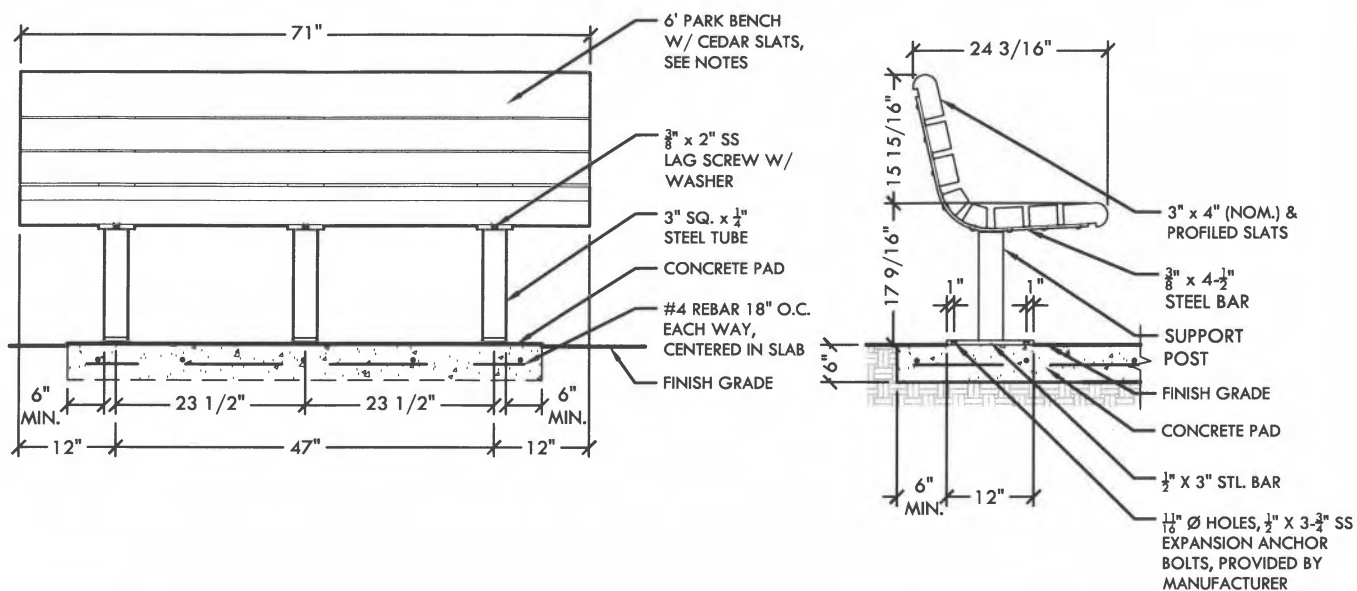
Sunnyvale

APPROVED BY:

DATE: SEPTEMBER 22, 2021

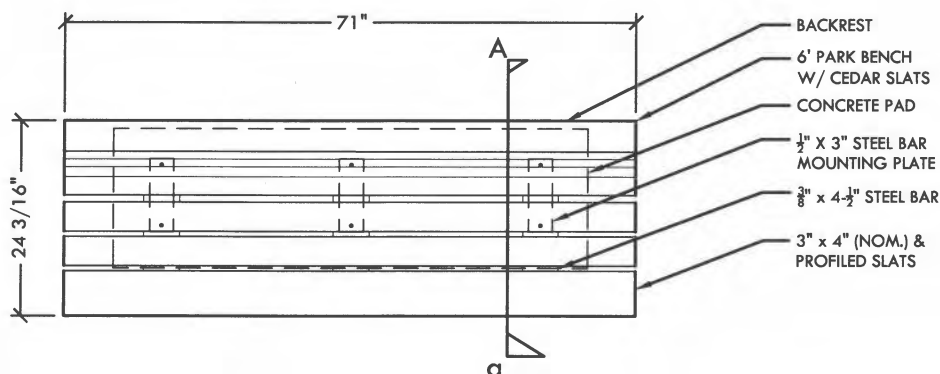
DWG.

**PK-1B**



ELEVATION

SECTION A-a



PLAN

NOTES:

1. 6' PARK BENCH, MODEL 88-60PL SURFACE MOUNT, FROM DUMOR, INC.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. ALL STEEL MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING
4. POLYESTER POWDER COATING COLOR: BLACK
5. SLATS SHALL BE "CEDAR" RECYCLED PLASTIC
6.  $\frac{1}{2}$ " x 3- $\frac{3}{4}$ " STAINLESS STEEL EXPANSION ANCHOR BOLTS PROVIDED BY MANUFACTURER

**6' PARK BENCH, SURFACE MOUNT**



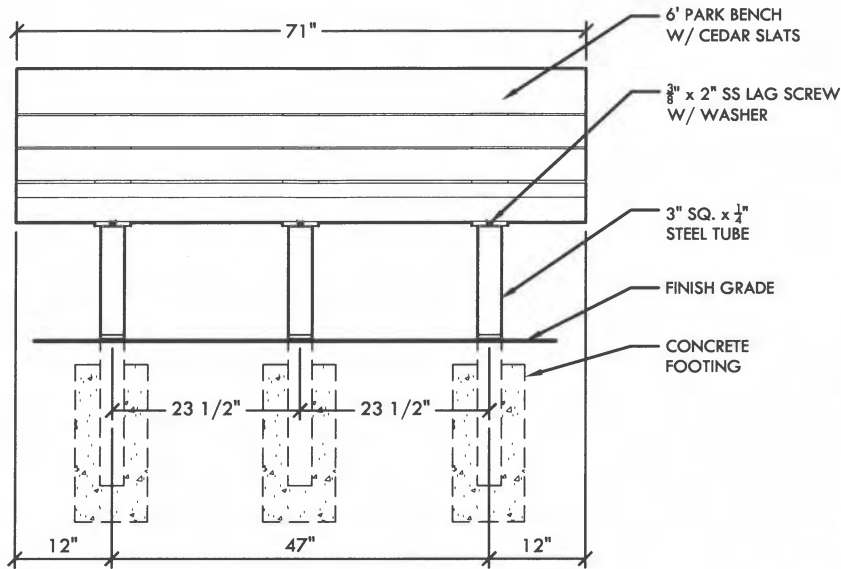
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DATE: FEBRUARY 28, 2022

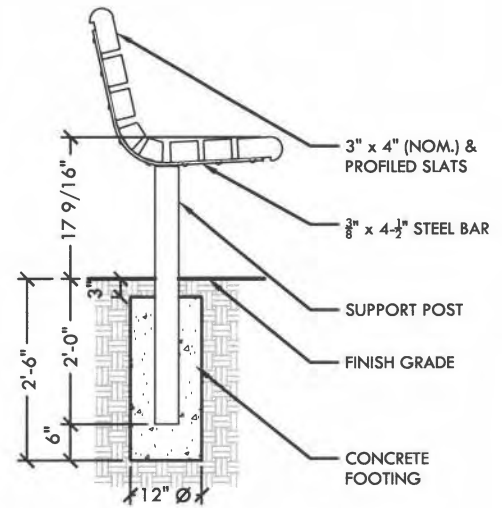
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APPROVED BY:

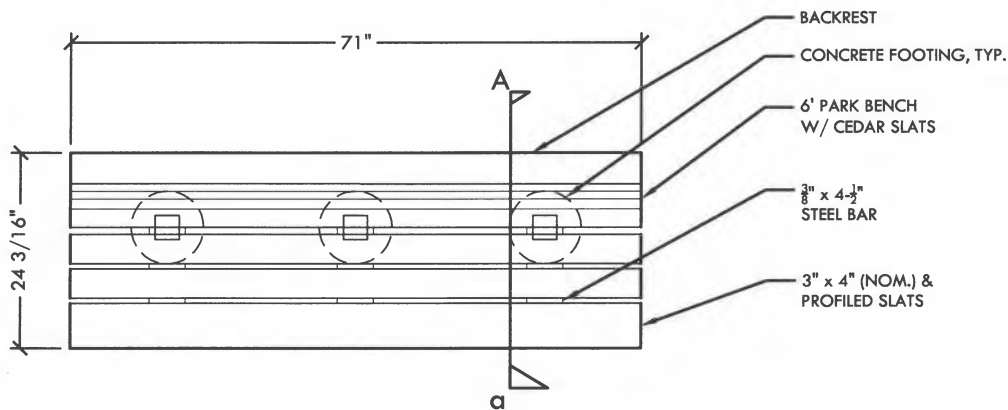
**PK-1C**



ELEVATION



SECTION A-a



PLAN

**NOTES:**

1. 6' PARK BENCH, MODEL 88-60PL EMBEDMENT MOUNT, FROM DUMOR, INC.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. ALL STEEL MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING
4. POLYESTER POWDER COATING COLOR: BLACK
5. SLATS SHALL BE "CEDAR" RECYCLED PLASTIC

**6' PARK BENCH, EMBEDDED MOUNT**



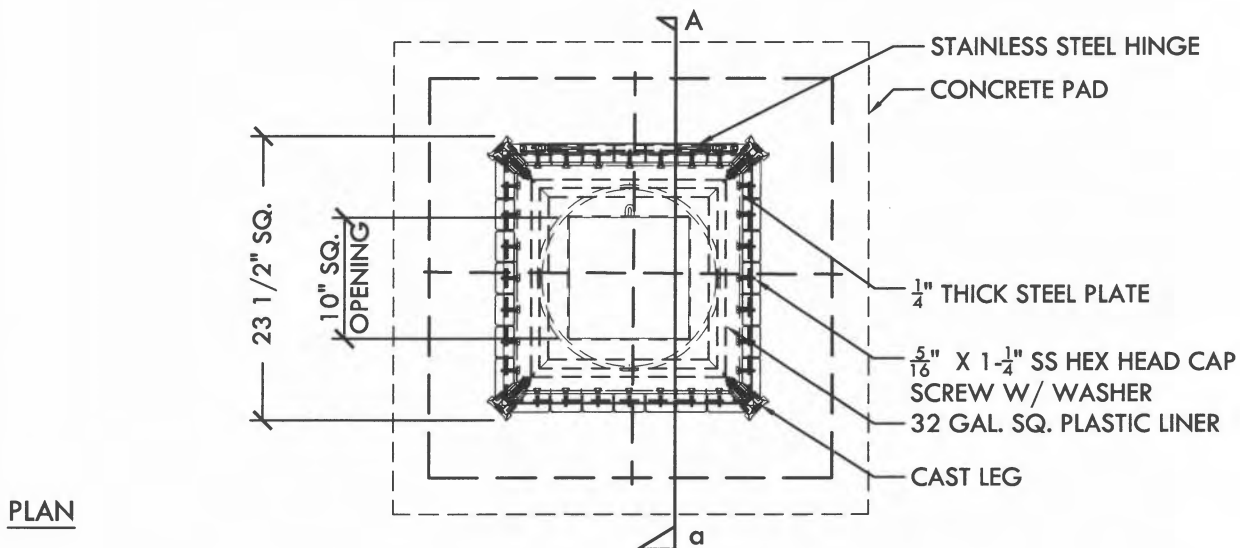
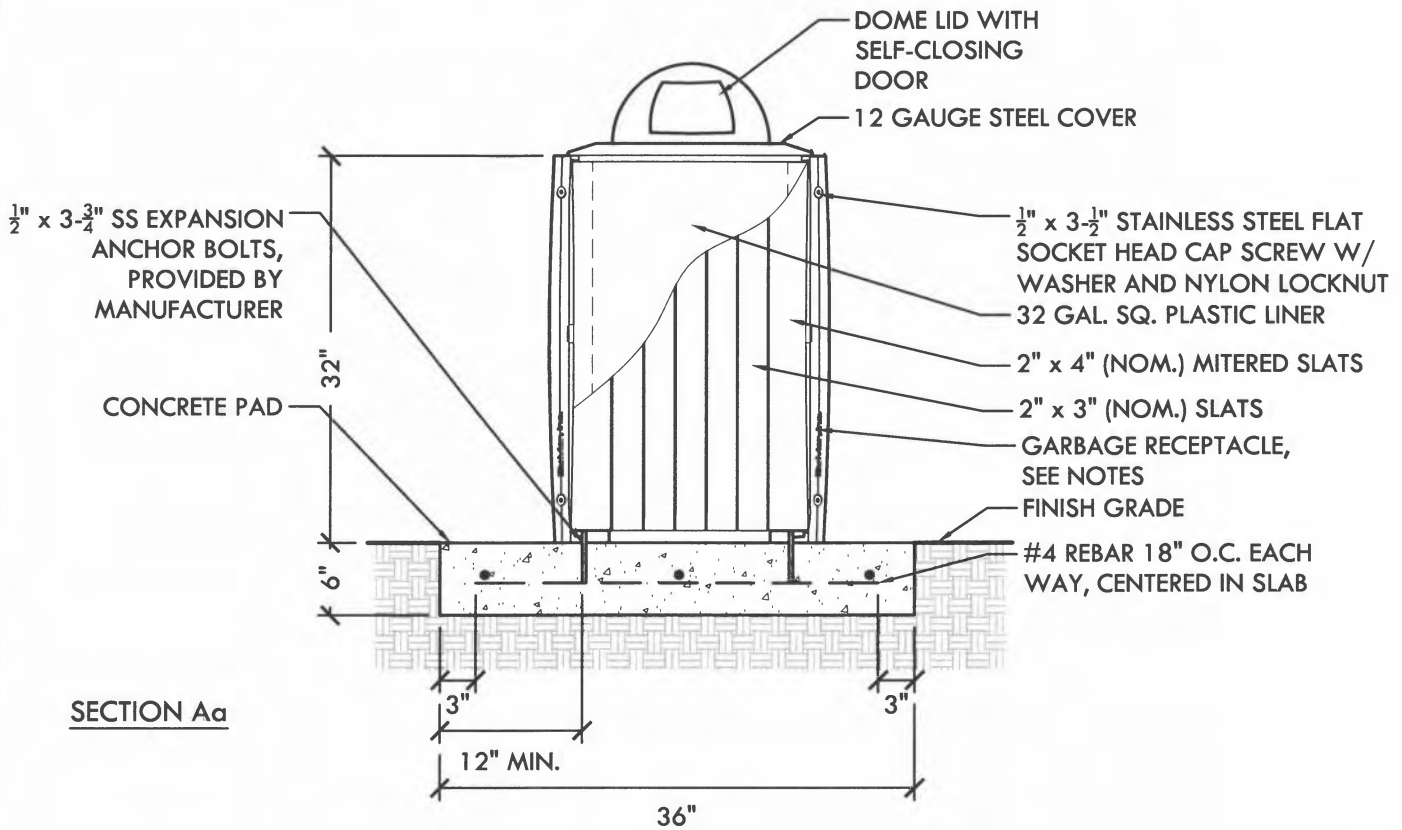
Sunnyvale

**DATE: FEBRUARY 28, 2022**

DWG.

APPROVED BY:

**PK-1D**



**NOTES:**

1. GARBAGE RECEPTACLE, MODEL 187-32PL PT, WITH SELF CLOSING DOME LID, FROM DUMOR INC.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3.  $\frac{1}{2}$ " x  $3\frac{3}{4}$ " SS EXPANSION ANCHOR BOLTS PROVIDED FOR SURFACE MOUNT
4. ALL STEEL MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING
5. POLYESTER POWDER COATING COLOR: BLACK
6. 32 GAL. PLASTIC LINER PROVIDED BY MANUFACTURER

**GARBAGE RECEPTACLE**



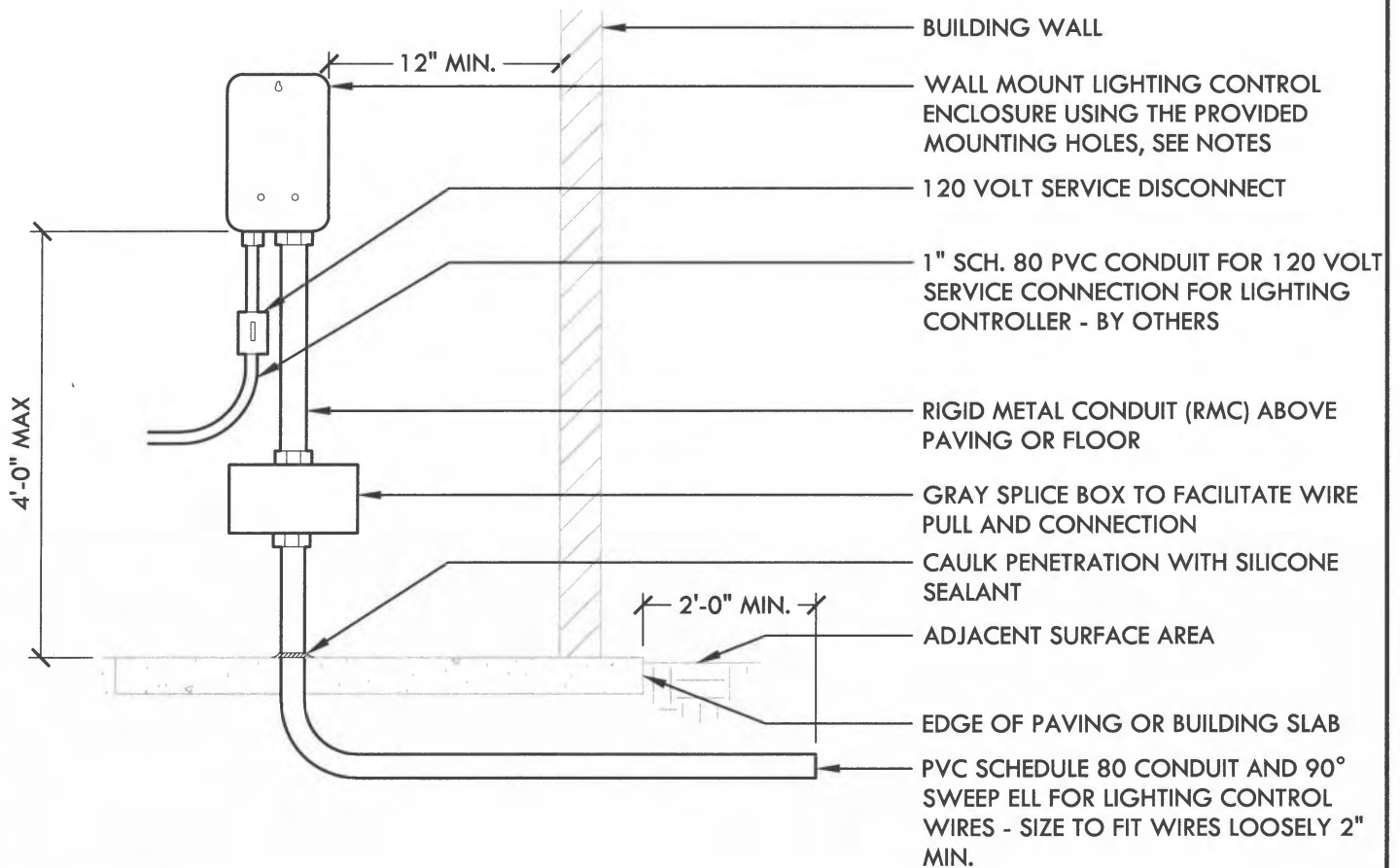
Sunnyvale

DATE: SEPTEMBER 22, 2021

DWG.

APPROVED BY:

**PK-2**



**NOTES:**

1. WALL-MOUNT LIGHTING CONTROL TO BE INTERMATIC ET8000 WITH 7-DAY ASTRONOMIC TIME SWITCH, MOUNTED IN GRAY PAINTED STEEL ENCLOSURE PROVIDED BY MANUFACTURER
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

**LIGHT CONTROLLER, WALL MOUNT**



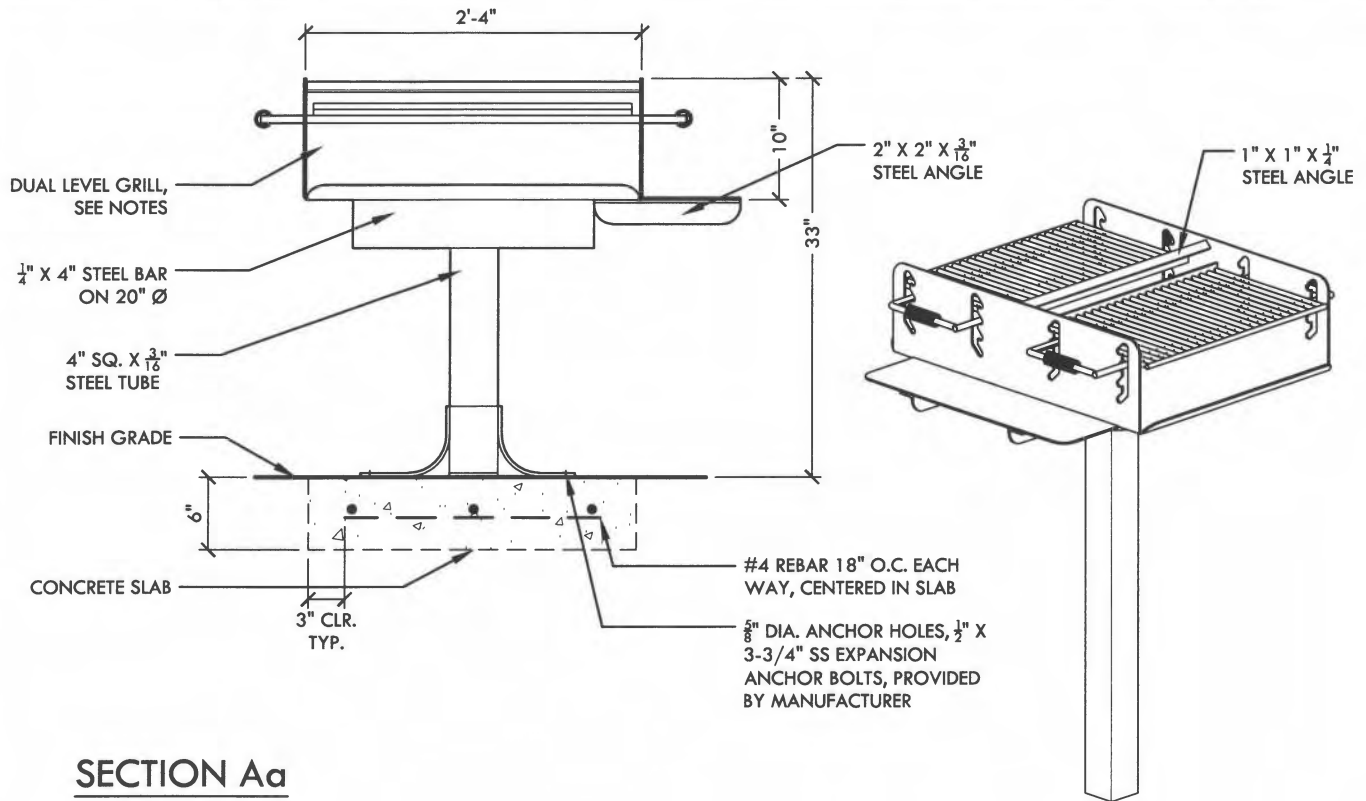
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DATE: NOVEMBER 29, 2021

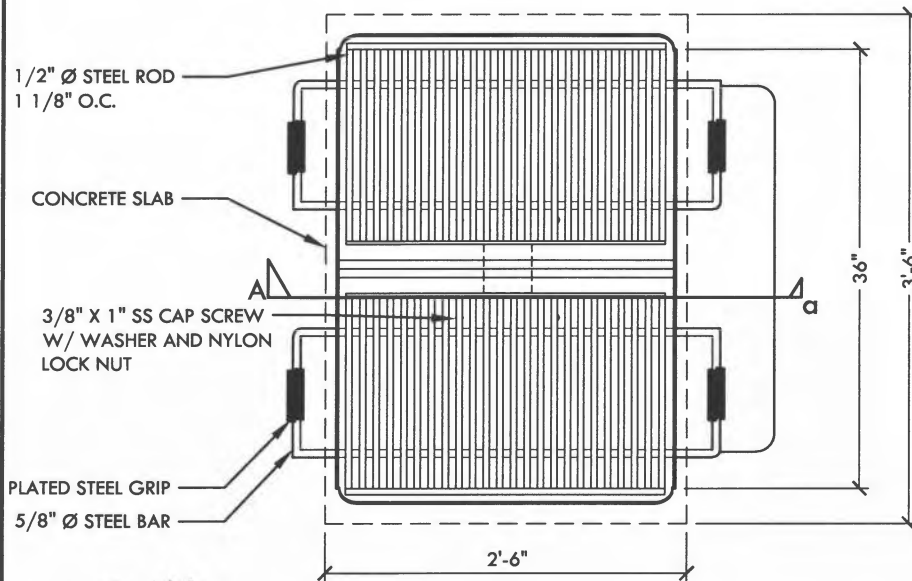
APPROVED BY:

DWG.

**PK-3A**



**SECTION A-a**



**PLAN**

**ISOMETRIC VIEW**

**NOTES:**

1. DUAL LEVEL GRILL, MODEL 24-00 SURFACE MOUNT, FROM DUMOR, INC.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. GRILL FINISH W/ HEAT RESISTANT BLACK ENAMEL
4. GRILL ROTATES FREELY 360° FOR DRAFT CONTROL

**DOUBLE GRILL, SURFACE MOUNT**



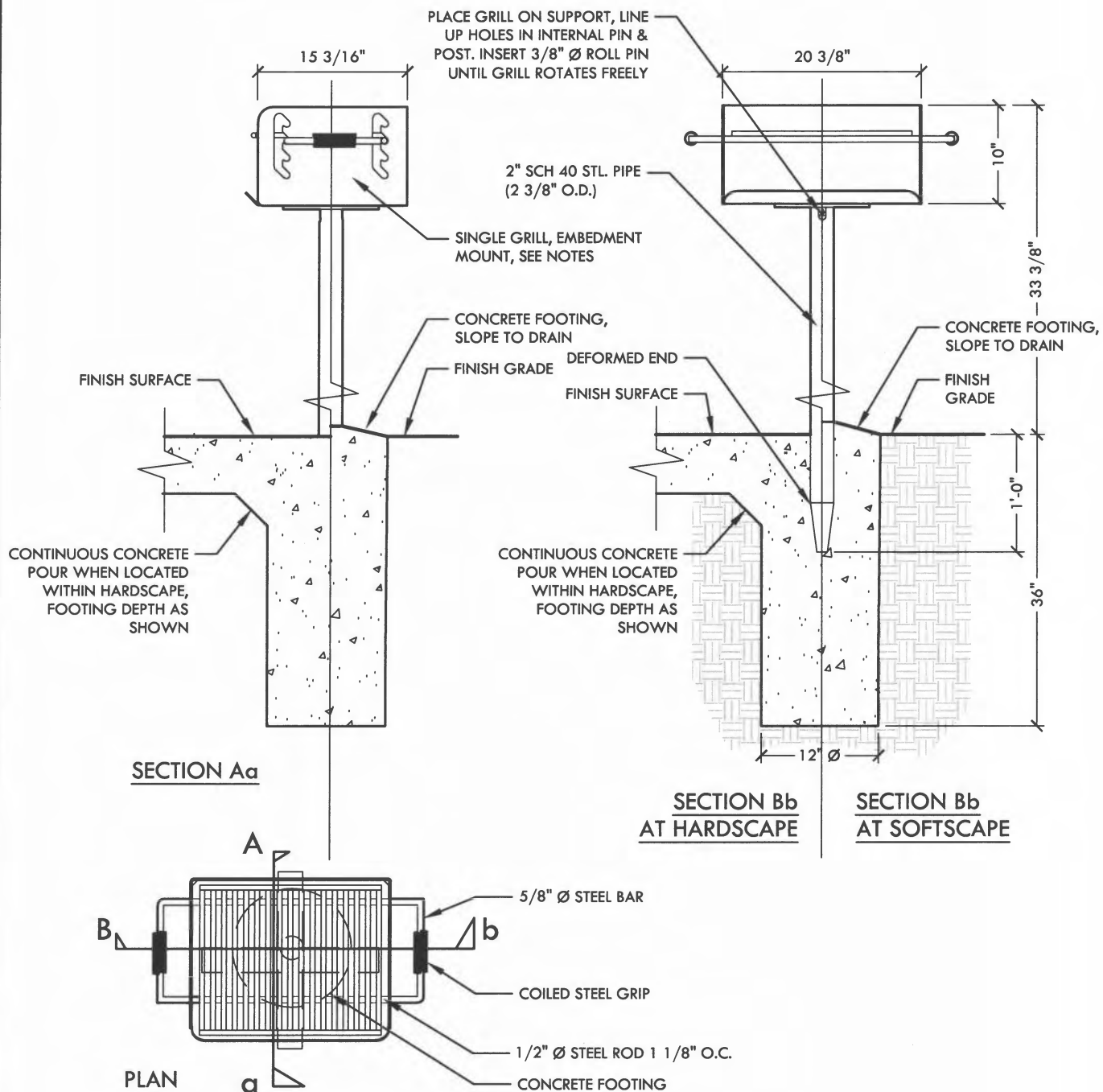
Sunnyvale

DATE: SEPTEMBER 22, 2021

DWG.

APPROVED BY:

**PK-3B**



**NOTES:**

1. SINGLE GRILL, MODEL 22-00 SURFACE MOUNT, FROM DUMOR, INC.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. GRILL FINISH W/ HEAT RESISTANT BLACK ENAMEL
4. GRILL ROTATES FREELY 360° FOR DRAFT CONTROL
5. 5 1/2" X 3 3/4" SS EXPANSION ANCHOR BOLTS PROVIDED BY MANUFACTURER

**SINGLE GRILL, EMBEDDED MOUNT**



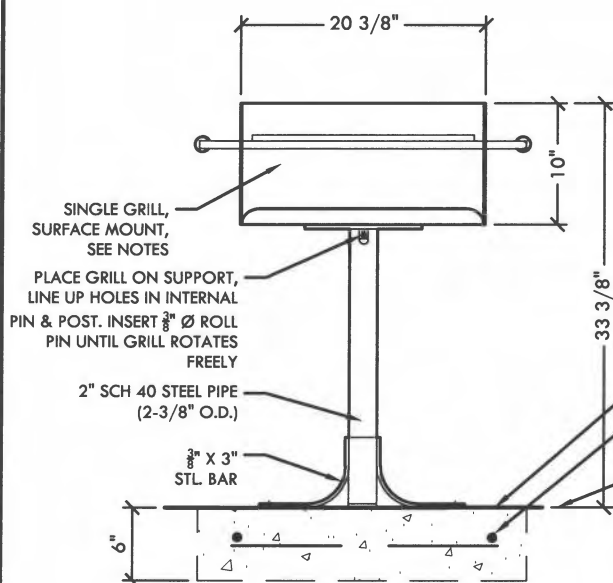
Sunnyvale

DATE: SEPTEMBER 22, 2021

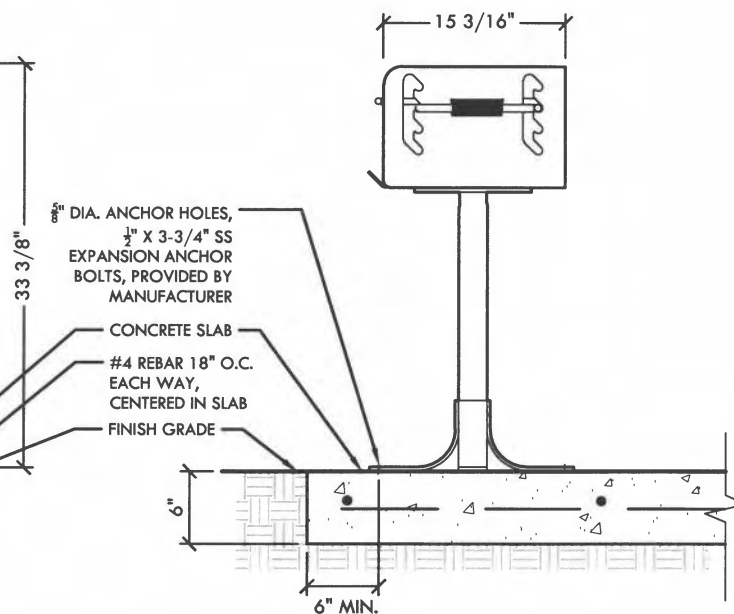
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DWG.

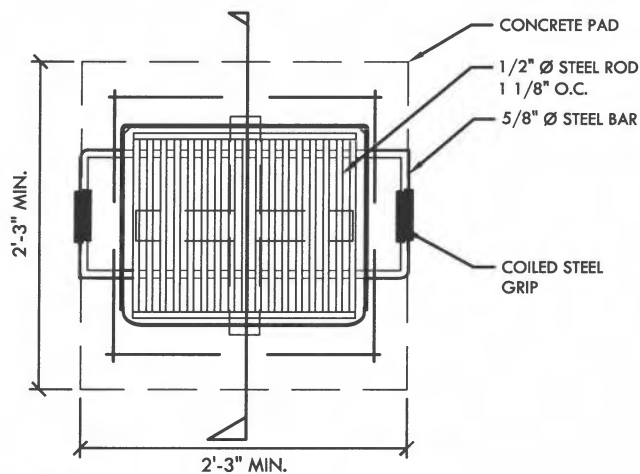
**PK-3C**



## ELEVATION



## SECTION

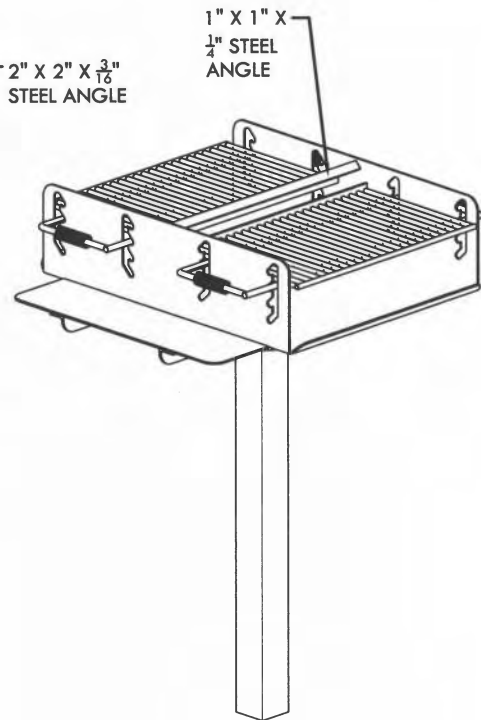
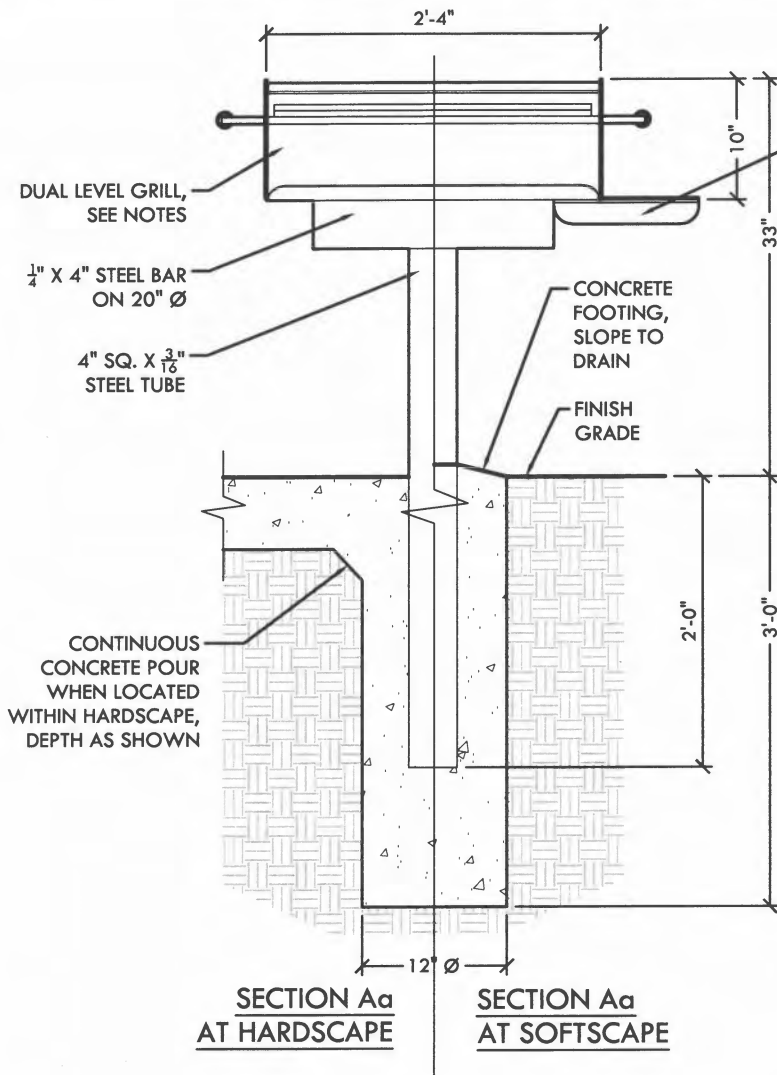


## PLAN

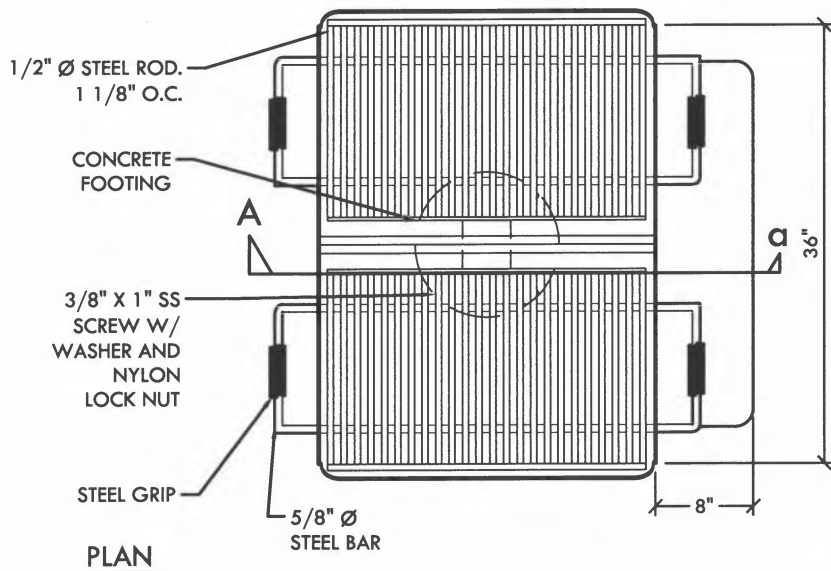
**NOTES:**

1. SINGLE GRILL, MODEL 22-00 SURFACE MOUNT, FROM DUMOR, INC.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. GRILL FINISH W/ HEAT RESISTANT BLACK ENAMEL
4. GRILL ROTATES FREELY 360° FOR DRAFT CONTROL
5. 5 1/2" X 3 3/4" SS EXPANSION ANCHOR BOLTS PROVIDED BY MANUFACTURER





ISOMETRIC VIEW



**NOTES:**

1. DUAL LEVEL GRILL, MODEL 24-00 EMBEDMENT MOUNT, FROM DUMOR, INC.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. GRILL FINISH W/ HEAT RESISTANT BLACK ENAMEL
4. GRILL ROTATES FREELY 360° FOR DRAFT CONTROL

**DOUBLE GRILL, EMBEDDED MOUNT**

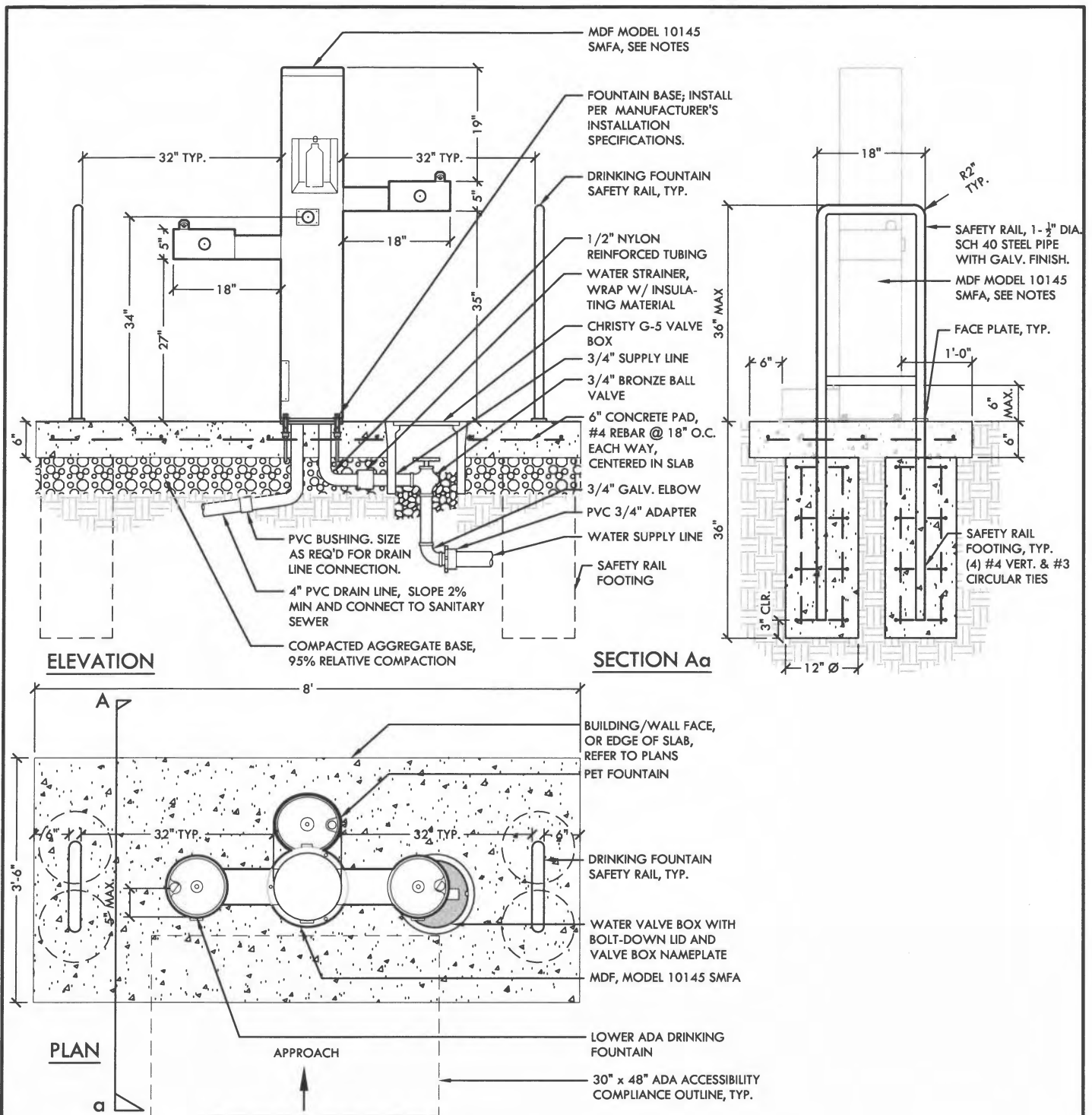


DATE: SEPTEMBER 22, 2021

DWG.

APPROVED BY:

**PK-3E**



**NOTES:**

1. DRINKING FOUNTAIN MODEL 10145 SMFA WITH BOTTLE FILLER AND PET STATION BY MOST DEPENDABLE FOUNTAINS, INC.
2. MEETS ADA HI/LO REGULATIONS. ALL DRINKING FOUNTAINS TO BE INSTALLED CLEAR OF ACCESSIBLE PATH OF TRAVEL.
3. HI BOWL, LO BOWL, AND BOTTLE FILLER TO HAVE PUSH BUTTON FACING A FRONT APPROACH. CONTRACTOR TO COORDINATE WITH MANUFACTURER.
4. DRINKING FOUNTAIN TO HAVE POWDER COATED FINISH; COLOR: GREEN

**DRINKING FOUNTAIN WITH BOTTLE FILLER AND PET STATION**



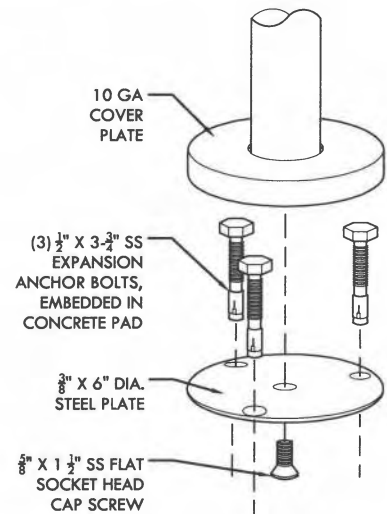
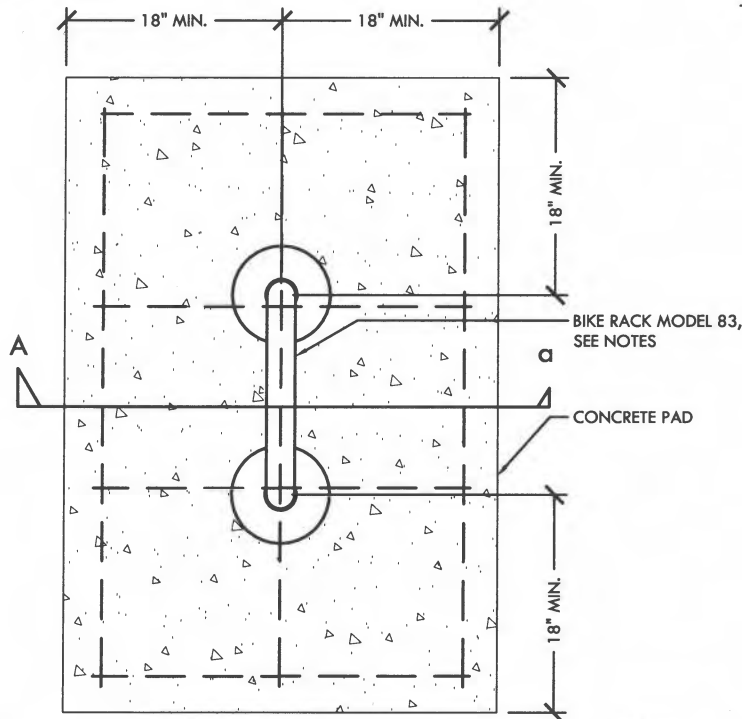
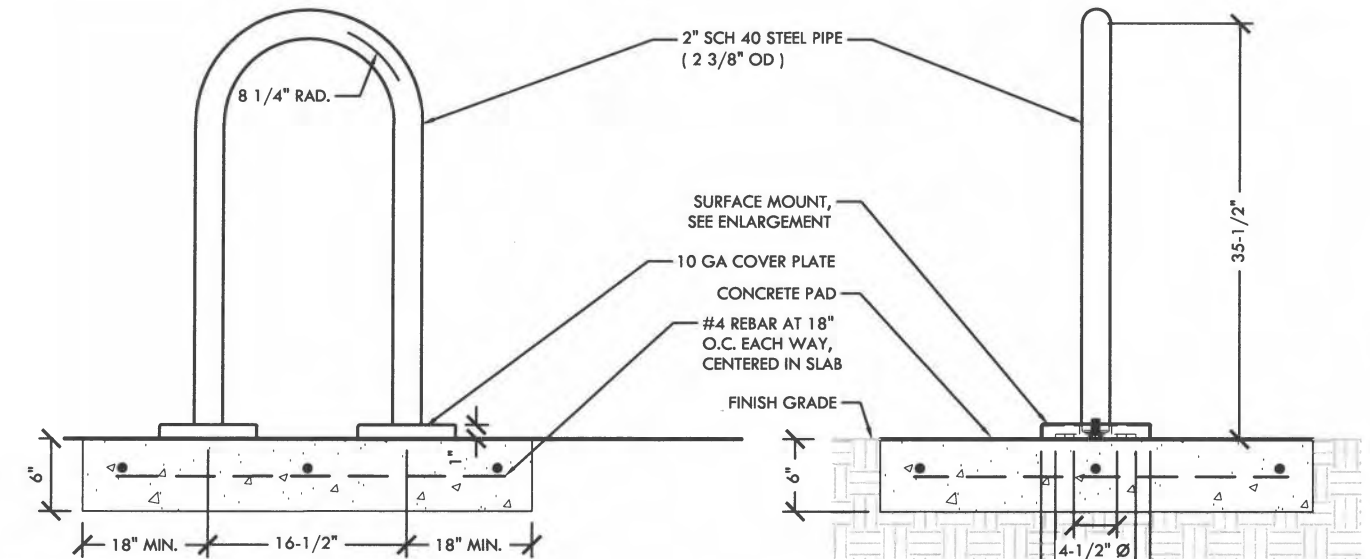
Sunnyvale

DATE: OCTOBER 1, 2019

APPROVED BY:

DWG.

**PK-4**



#### NOTES:

1. BIKE RACK MODEL 83 / S-2 FROM DUMOR, INC.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. 1/2" X 3 3/4" SS EXPANSION ANCHOR BOLTS FOR SURFACE MOUNT PROVIDED BY MANUFACTURER
4. ALL STEEL MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING
5. POLYESTER POWDER COATING COLOR: BLACK

## BIKE RACK, SURFACE MOUNT



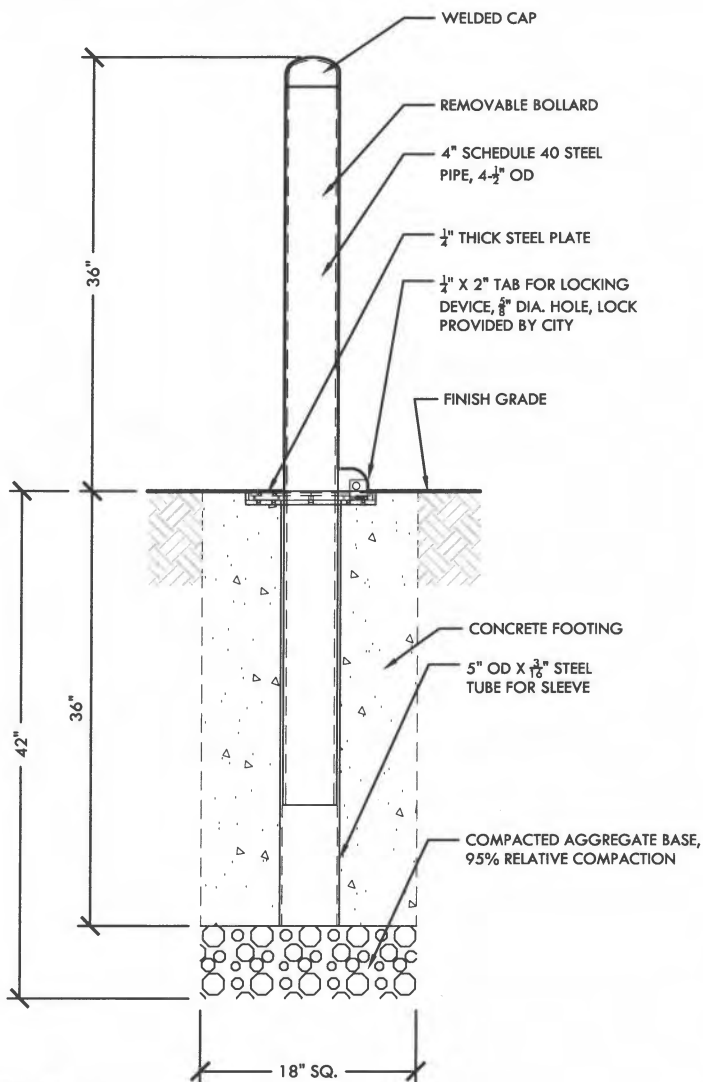
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DATE: SEPTEMBER 22, 2021

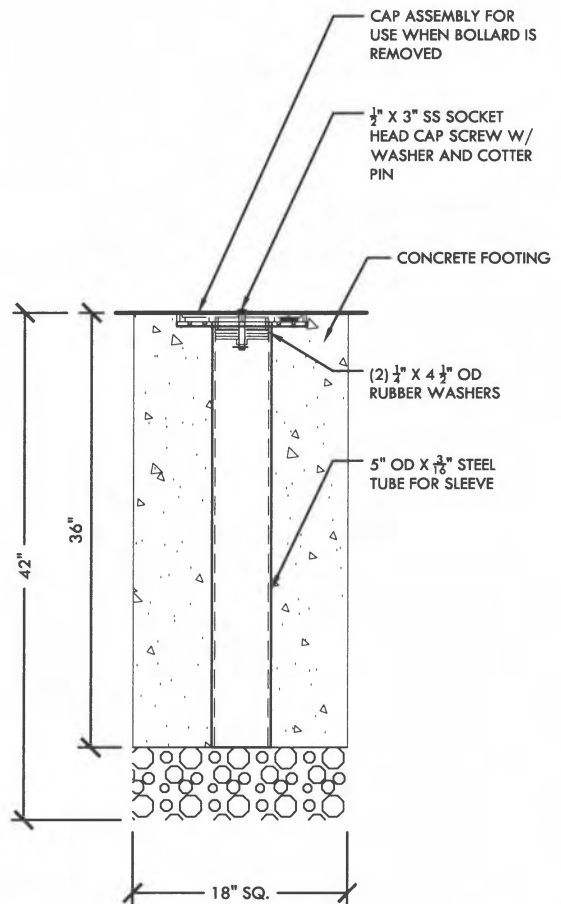
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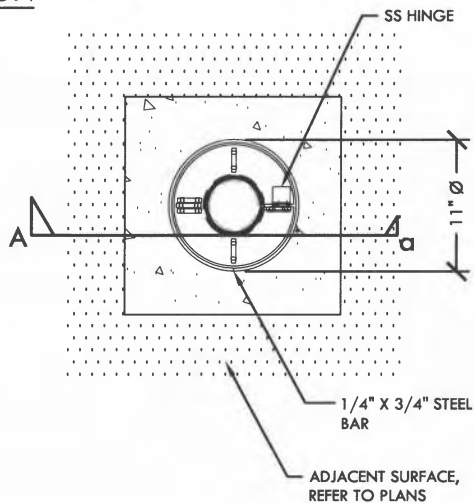
PK-5



**ELEVATION**



**SECTION A-a**



**PLAN**

**NOTES:**

1. BOLLARD MODEL 400-36 FROM DUMOR, INC.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING
4. POLYESTER POWDER COATING COLOR: YELLOW

**REMOVABLE BOLLARD W/ GROUND SLEEVE & CAP**



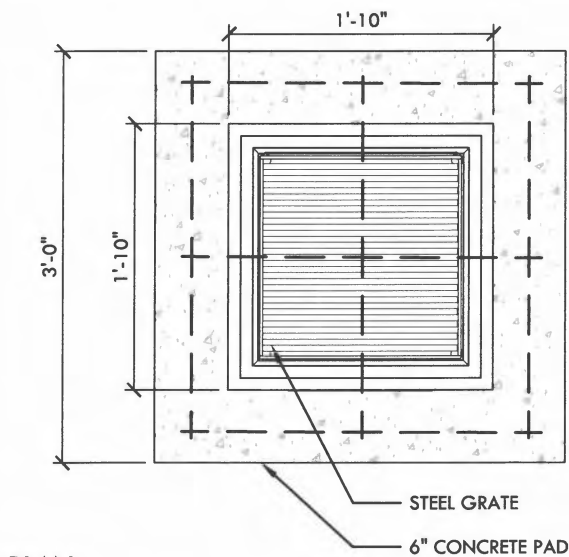
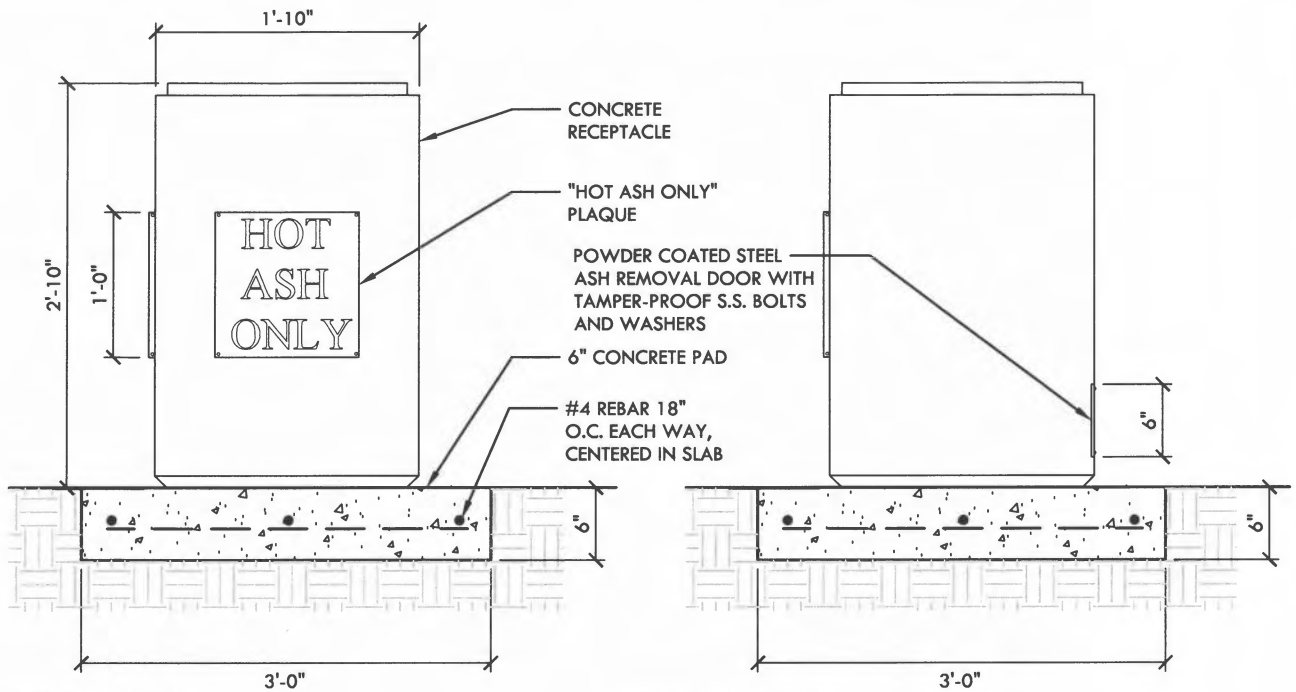
Sunnyvale

DATE: SEPTEMBER 22, 2021

DWG.

APPROVED BY:

**PK-6**



**NOTES:**

1. ASH RECEPTACLE MODEL NUMBER 500-0715 BY KAY PARK RECREATION.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

**ASH RECEPTACLE**



Sunnyvale

DATE: OCTOBER 1, 2019

DWG.

APPROVED BY:

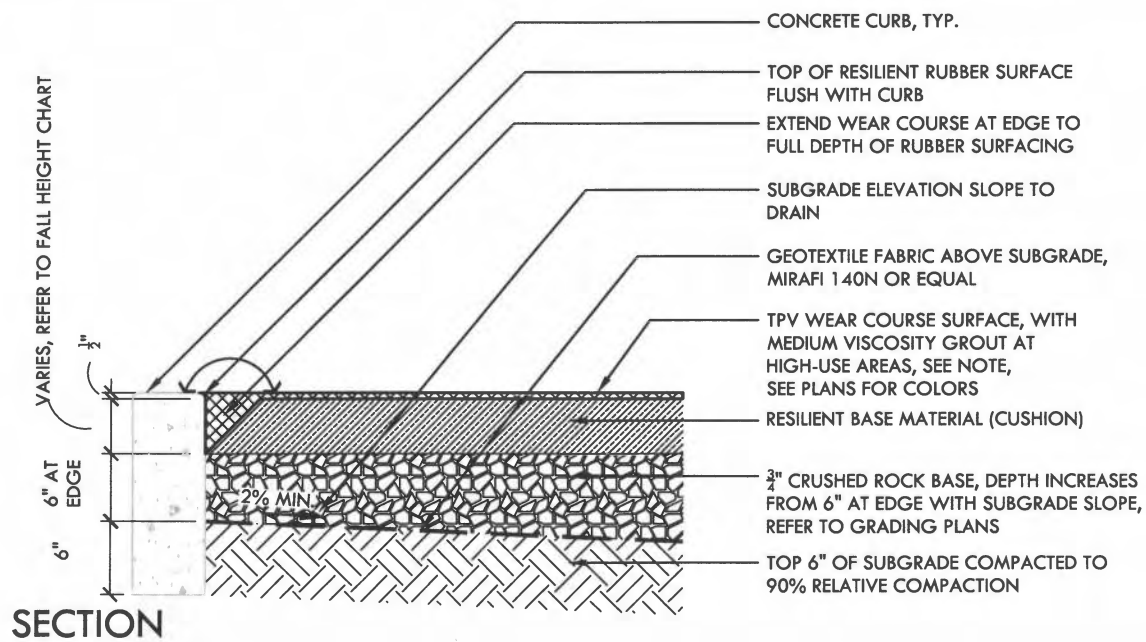
**PK-7**

## SURFACING FALL HEIGHT CHART

| FALL HEIGHT (FT)                     | 4'-0"  | 5'-0"  | 6'-0"  | 7'-0"  | 8'-0"  | 9'-0"  | 10'-0" | 12'-0" |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| ENDURAFLEX TOTAL SYSTEM DEPTH (IN.)  | 2"     | 2 1/2" | 3"     | 3 1/2" | 3 1/2" | 4 1/2" | 4 1/2" | -      |
| TOTTURF TOTAL SYSTEM DEPTH (IN.)     | 2"     | 2 1/2" | 3"     | 4"     | 4"     | 4"     | 4"     | 5"     |
| SPECTRAPOUR TOTAL SYSTEM DEPTH (IN.) | 1 3/4" | 2"     | 2 1/2" | 3"     | 3 1/2" | 4 1/2" | 4 1/4" | 5"     |

CHART REPRESENTS THE TOTAL (CUSHION & TPV WEAR COURSE) SYSTEM DEPTH

EXAMPLE: 2.0" SYSTEM CONSISTS OF 1.5" CUSHION LAYER AND 1/2" TPV WEAR COURSE



### NOTES:

1. POROUS RESILIENT RUBBER SURFACE TO BE ENDURAFLEX POURED-IN-PLACE SURFACING, PROVIDED BY FLEXGROUND. ALTERNATE ACCEPTABLE VENDORS INCLUDE TOTTURF TPV RUBBER-POURED SURFACING BY ROBERTSON RECREATIONAL SURFACES & SPECTRAPOUR POURED-IN-PLACE SURFACING BY SPECTRATURF.
2. TOP OF POROUS RESILIENT RUBBER SURFACING AND SUBGRADE SHALL BE COORDINATED TO ENSURE POSITIVE DRAINAGE.
3. DEPTH OF POROUS RESILIENT RUBBER SURFACING SHALL BE AS RECOMMENDED BY THE CPSC GUIDELINES AND / OR MANUFACTURER, REFER TO FALL HEIGHT CHART ABOVE.
4. CONTRACTOR TO CONFIRM MAXIMUM FALL HEIGHT OF ALL PLAY EQUIPMENT.
5. FLEXGROUT MEDIUM VISCOSITY GROUT PRODUCT, BY FLEXGROUND, SHALL BE USED AT BASE OF SLIDES, SWINGS AND BENEATH HIGH TRAFFIC AREAS, TYP. NO KNOWN EQUAL.

**POROUS RESILIENT SURFACE WITH  
CRUSHED ROCK BASE**



Sunnyvale

DATE: OCTOBER 1, 2019

*[Signature]*

APPROVED BY:

DWG.

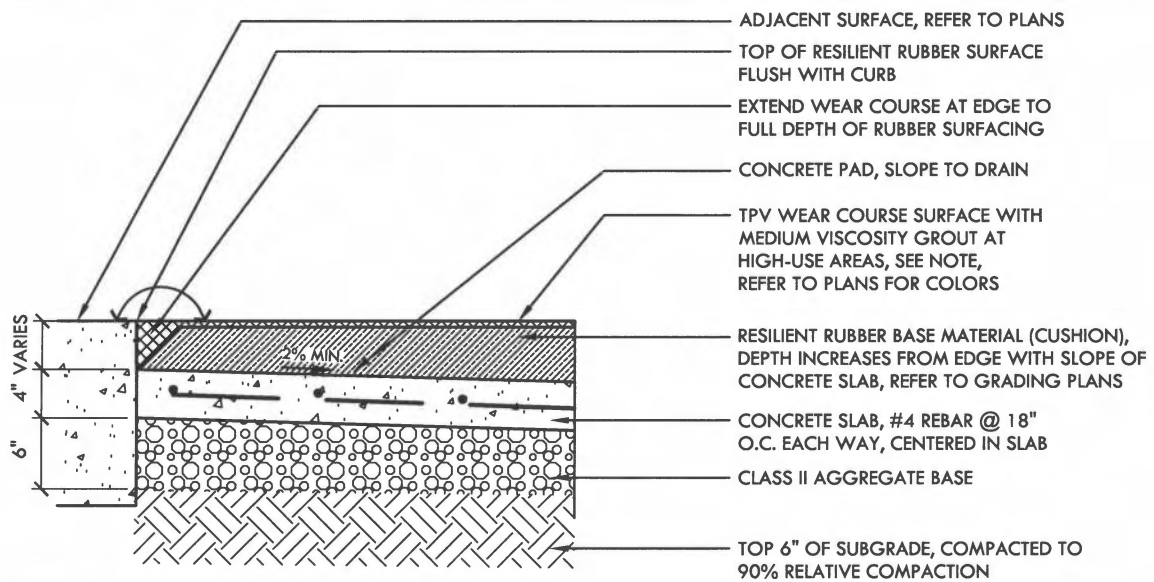
**PK-8A**

## SURFACING FALL HEIGHT CHART

| FALL HEIGHT (FT)                     | 4'-0"  | 5'-0"  | 6'-0"  | 7'-0"  | 8'-0"  | 9'-0"  | 10'-0" | 12'-0" |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| ENDURAFLEX TOTAL SYSTEM DEPTH (IN.)  | 2"     | 2 1/2" | 3"     | 3 1/2" | 3 1/2" | 4 1/2" | 4 1/2" | -      |
| TOTTURF TOTAL SYSTEM DEPTH (IN.)     | 2"     | 2 1/2" | 3"     | 4"     | 4"     | 4"     | 4"     | 5"     |
| SPECTRAPOUR TOTAL SYSTEM DEPTH (IN.) | 1 3/4" | 2"     | 2 1/2" | 3"     | 3 1/2" | 4 1/2" | 4 1/4" | 5"     |

CHART REPRESENTS THE TOTAL (CUSHION & TPV WEAR COURSE) SYSTEM DEPTH

EXAMPLE: 2.0" SYSTEM CONSISTS OF 1.5" CUSHION LAYER AND 1/2" TPV WEAR COURSE



### SECTION

#### NOTES:

1. POROUS RESILIENT RUBBER SURFACE TO BE ENDURAFLEX POURED-IN-PLACE SURFACING, PROVIDED BY FLEXGROUND. ALTERNATE ACCEPTABLE VENDORS INCLUDE TOTTURF TPV RUBBER-POURED SURFACING BY ROBERTSON RECREATIONAL SURFACES & SPECTRAPOUR POURED-IN-PLACE SURFACING BY SPECTRATURF.
2. TOP OF POROUS RESILIENT RUBBER SURFACING AND SUBGRADE SHALL BE COORDINATED TO ENSURE POSITIVE DRAINAGE.
3. DEPTH OF POROUS RESILIENT RUBBER SURFACING SHALL BE AS RECOMMENDED BY THE CPSC GUIDELINES AND / OR MANUFACTURER, REFER TO FALL HEIGHT CHART ABOVE.
4. CONTRACTOR TO CONFIRM MAXIMUM FALL HEIGHT OF ALL PLAY EQUIPMENT.
5. FLEXGROUT MEDIUM VISCOSITY GROUT PRODUCT, BY FLEXGROUND, SHALL BE USED AT BASE OF SLIDES, SWINGS AND BENEATH HIGH TRAFFIC AREAS, TYP. NO KNOWN EQUAL.

**POROUS RESILIENT SURFACING  
WITH CONCRETE BASE**



Sunnyvale

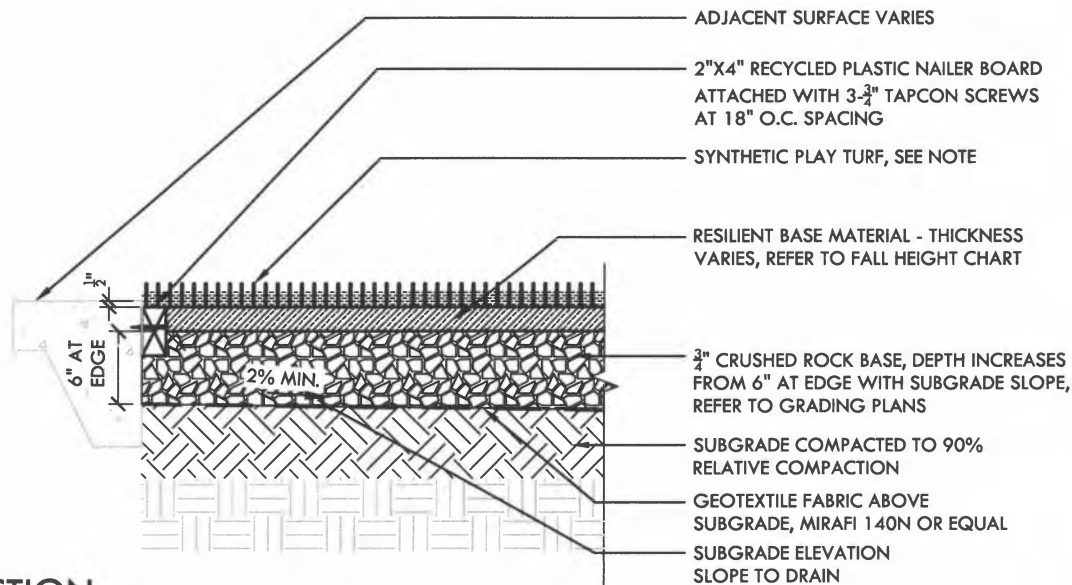
DATE: OCTOBER 1, 2019

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DWG.

**PK-8B**

| FLEXGRASS FALL HEIGHT CHART                                                                                                         |       |           |       |           |
|-------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|-----------|
| FALL HEIGHT (FT)                                                                                                                    | 4'-0" | 5'-0"     | 6'-0" | 10'-0"    |
| TOTAL SYSTEM DEPTH (IN.)                                                                                                            | 0'-2" | 0'-2 1/2" | 0'-3" | 0'-4 1/2" |
| CHART REPRESENTS THE TOTAL (CUSHION & TURF) SYSTEM DEPTH<br>EXAMPLE: 2.5" SYSTEM CONSISTS OF 1.5" CUSHION LAYER AND APPROX. 1" TURF |       |           |       |           |



## SECTION

### NOTES:

1. SYNTHETIC PLAY TURF TO BE FLEXGRASS SYNTHETIC TURF BY FLEXGROUND. INSTALLATION TO BE COMPLETED BY FACTORY-AUTHORIZED INSTALLERS.
2. SYNTHETIC TURF AND RESILIENT BASE MATERIAL TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS, WITH THE EXCEPTION OF THE USE OF GRASS SPIKES. CONTRACTOR SHALL STAPLE TURF EDGES TO RECYCLED PLASTIC NAILER BOARD AT 2" O.C., OR BE GLUED TO CONCRETE EDGE BAND WITH MANUFACTURER'S APPROVED ADHESIVE.
3. TOP OF NAILER BOARD AND RESILIENT BASE MATERIAL SHALL BE 1/2" BELOW ADJACENT CONCRETE PAVING.

**SYNTHETIC PLAY TURF  
WITH CRUSHED ROCK BASE**



Sunnyvale

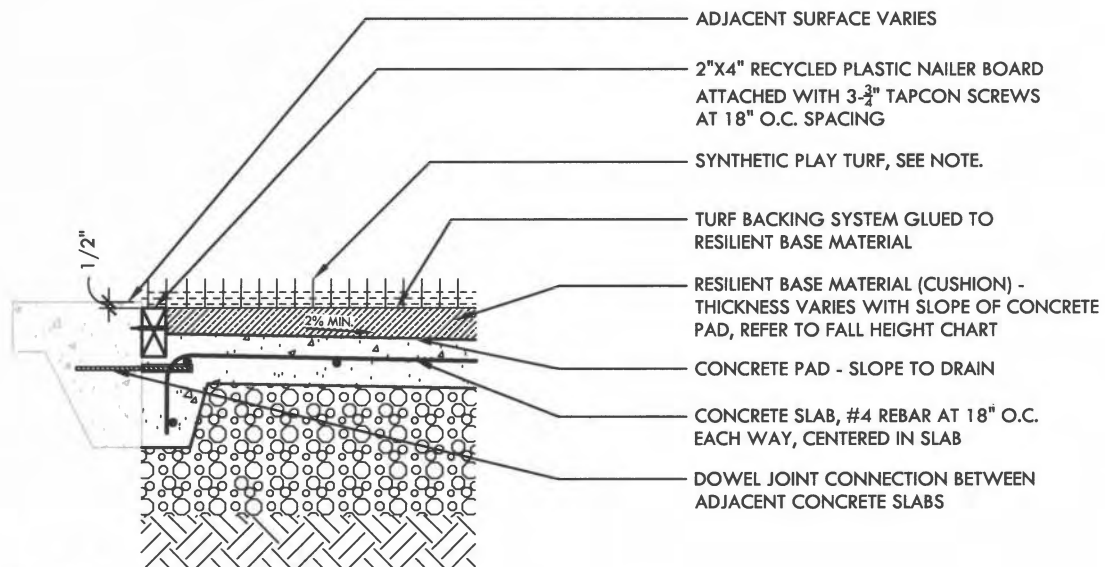
DATE: OCTOBER 1, 2019

DWG.

APPROVED BY:

**PK-8C**

| FLEXGRASS FALL HEIGHT CHART                                                                                                         |       |           |       |           |
|-------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-------|-----------|
| FALL HEIGHT (FT)                                                                                                                    | 4'-0" | 5'-0"     | 6'-0" | 10'-0"    |
| TOTAL SYSTEM DEPTH (IN.)                                                                                                            | 0'-2" | 0'-2 1/2" | 0'-3" | 0'-4 1/2" |
| CHART REPRESENTS THE TOTAL (CUSHION & TURF) SYSTEM DEPTH<br>EXAMPLE: 2.5" SYSTEM CONSISTS OF 1.5" CUSHION LAYER AND APPROX. 1" TURF |       |           |       |           |



## SECTION

### NOTES:

1. SYNTHETIC PLAY TURF TO BE FLEXGRASS SYNTHETIC TURF BY FLEXGROUND. INSTALLATION TO BE COMPLETED BY FACTORY-AUTHORIZED INSTALLERS.
2. SYNTHETIC TURF AND RESILIENT BASE MATERIAL TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS, WITH THE EXCEPTION OF THE USE OF GRASS SPIKES. CONTRACTOR SHALL STAPLE TURF EDGES TO RECYCLED PLASTIC NAILER BOARD AT 2" O.C., OR BE GLUED TO CONCRETE EDGE BAND WITH MANUFACTURER'S APPROVED ADHESIVE.
3. TOP OF NAILER BOARD AND RESILIENT BASE MATERIAL SHALL BE 1/2" BELOW ADJACENT CONCRETE PAVING.

**SYNTHETIC PLAY TURF WITH CONCRETE  
BASE AND CONNECTION AT PLAY AREA**



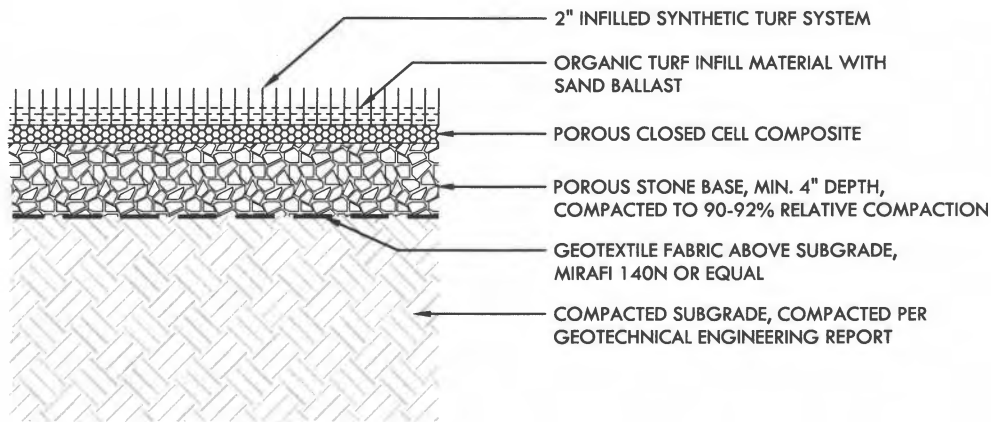
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DATE: OCTOBER 1, 2019

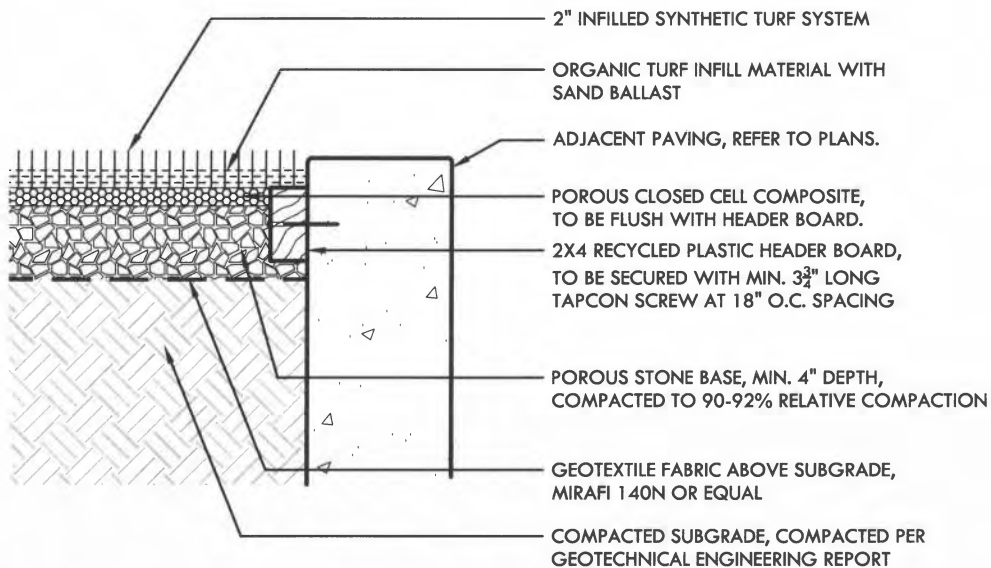
DWG.

APPROVED BY:

**PK-8D**



## SECTION AT PLAYING FIELD



## SECTION AT EDGE CONNECTION

### NOTES:

1. IDENTIFIED FINISH GRADE OF SYNTHETIC TURF SHALL BE THE TOP OF THE INFILL MATERIAL. INFILL MATERIAL SHALL BE  $\frac{1}{4}$ " BELOW ADJACENT SURFACES UNLESS EDGE IS A VERTICAL CURB. REFER TO GRADING PLANS FOR EDGE CONDITION.
2. POROUS CLOSED CELL COMPOSITE SHALL BE 'POWERBASE YSR' BY BROCK USA OR EQUAL.
3. CONTRACTOR SHALL SUBMIT SYNTHETIC TURF SYSTEM PRODUCT INFORMATION AND SHOP DRAWINGS FOR ACCEPTANCE PRIOR TO INSTALLATION. ACCEPTABLE VENDORS INCLUDE: FIELDTURF, ASTROTURF, SHAW SPORTS TURF OR APPROVED EQUAL.
4. NO CUT-OUTS IN TURF SHALL BE MADE UNLESS OTHERWISE NOTED.

## **SYNTHETIC TURF AND CONNECTION**



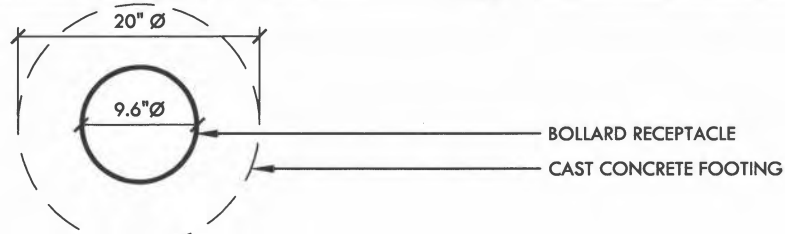
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DATE: OCTOBER 1, 2019

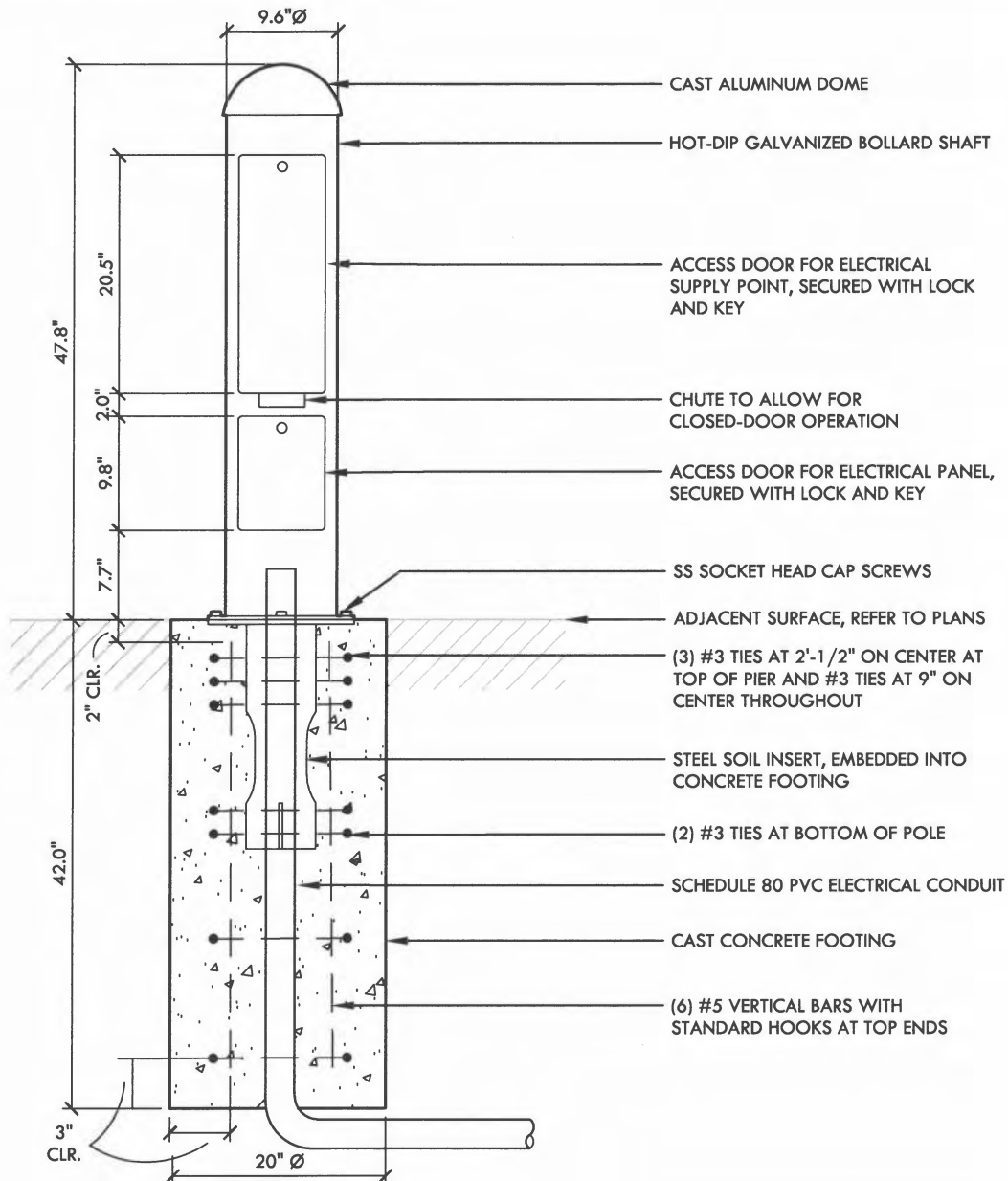
APPROVED BY:

DWG.

**PK-8E**



## BOLLARD RECEPTACLE PLAN



## BOLLARD RECEPTACLE AND FOOTING SECTION

### NOTES:

1. MODEL TO BE HESS TOLEDO 250 GS/PB IN SILVER GREY FINISH.
2. WEIGHT OF BOLLARD: 165 LBS.

**BOLLARD RECEPTACLE**



Sunnyvale

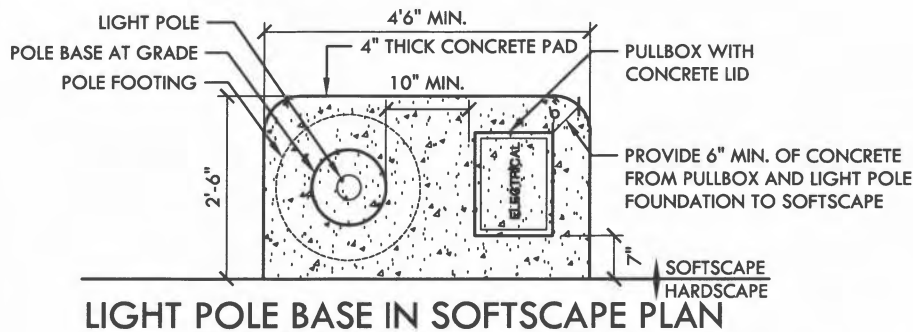
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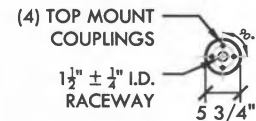
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DWG.

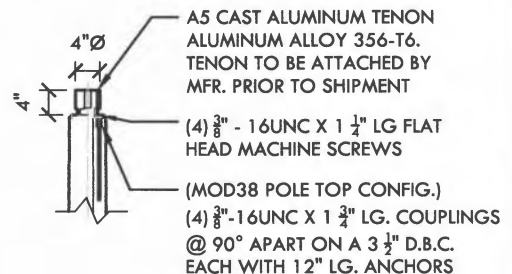
**PK-9**



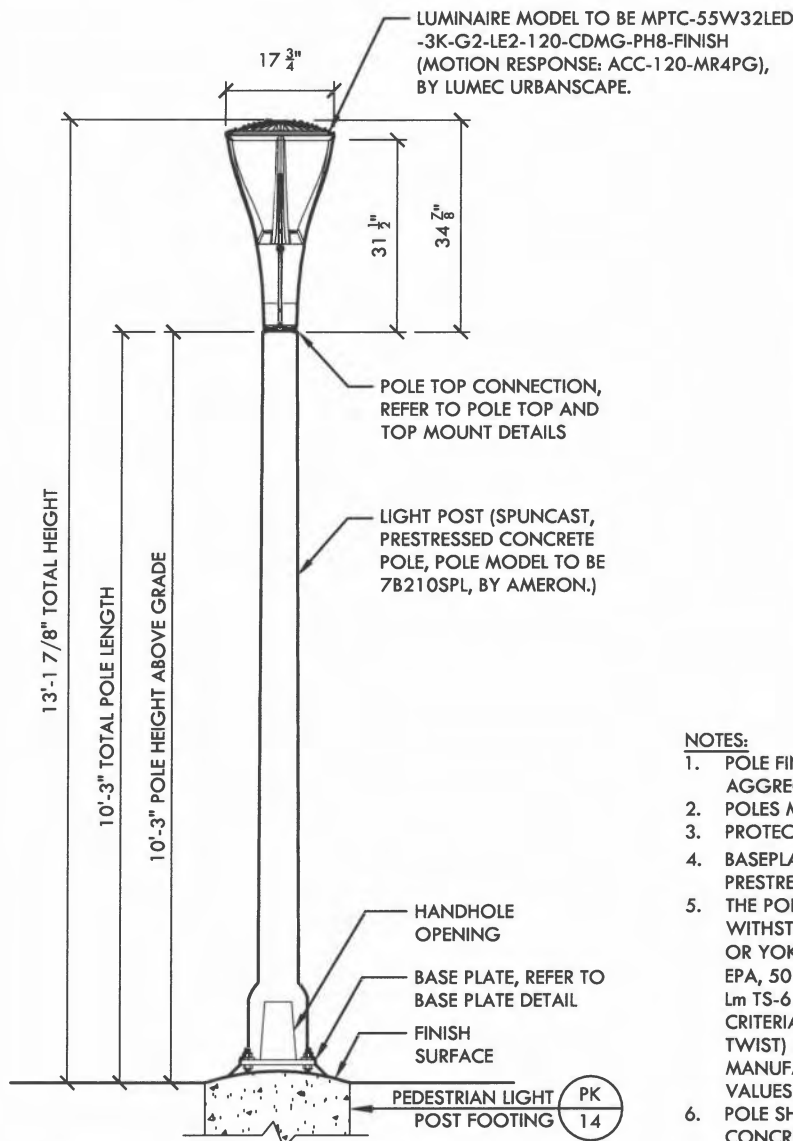
**LIGHT POLE BASE IN SOFTSCAPE PLAN**



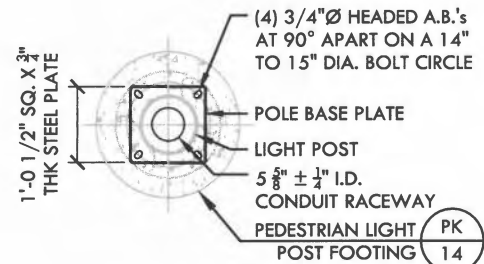
**POLE TOP DETAIL**



**TOP MOUNT DETAIL**



**LIGHT POLE ELEVATION**



**BASE PLATE DETAIL**

**NOTES:**

1. POLE FINISH- MIX (373A): LA BLACK & WHITE, EXPOSED AGGREGATE FINISH WITH ARCHITECTURAL GLOSS COATING.
2. POLES MANUFACTURED PER ASTM C-1089-13 CYLINDER TEST
3. PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.
4. BASEPLATE (ASTM A36) IS FULLY PRESTRESSED WITH (4) 5/8" DIA. PRESTRESSING CABLES (A-416).
5. THE POLES DEPICTED ON THIS DRAWING ARE DESIGNED TO WITHSTAND THE LOADS IMPARTED BY A SINGLE ACORN, GLOBE OR YOKE/SPIDER TYPE LUMINAIRE (NOT TO EXCEED 2.5 SQ. FT. EPA, 50 POUNDS, PER POLE) AS DESIGNED PER THE 2013 AASHTO Lm TS-6 USING A 100 MPH WIND ZONE (3-SECOND GUSTS) CRITERIA FOR STREET LIGHT POLES. NO TORSIONAL (ARM OR TWIST) LOADS ANALYZED. PLEASE CONTACT & ADVISE MANUFACTURER IF THE INTENDED LOADING EXCEEDS THESE VALUES.
6. POLE SHOWN IS SUITABLE FOR CAPPED BASEPLATE (ENCASED IN CONCRETE), OTHERWISE, OTHER NON-CAPPED INSTALLATION REQUIRES A GALVANIZED BASE PLATE.
7. WEIGHT OF POST AND FIXTURE: 296 LBS.

**PEDESTRIAN LED LIGHT  
WITH CONCRETE POST**



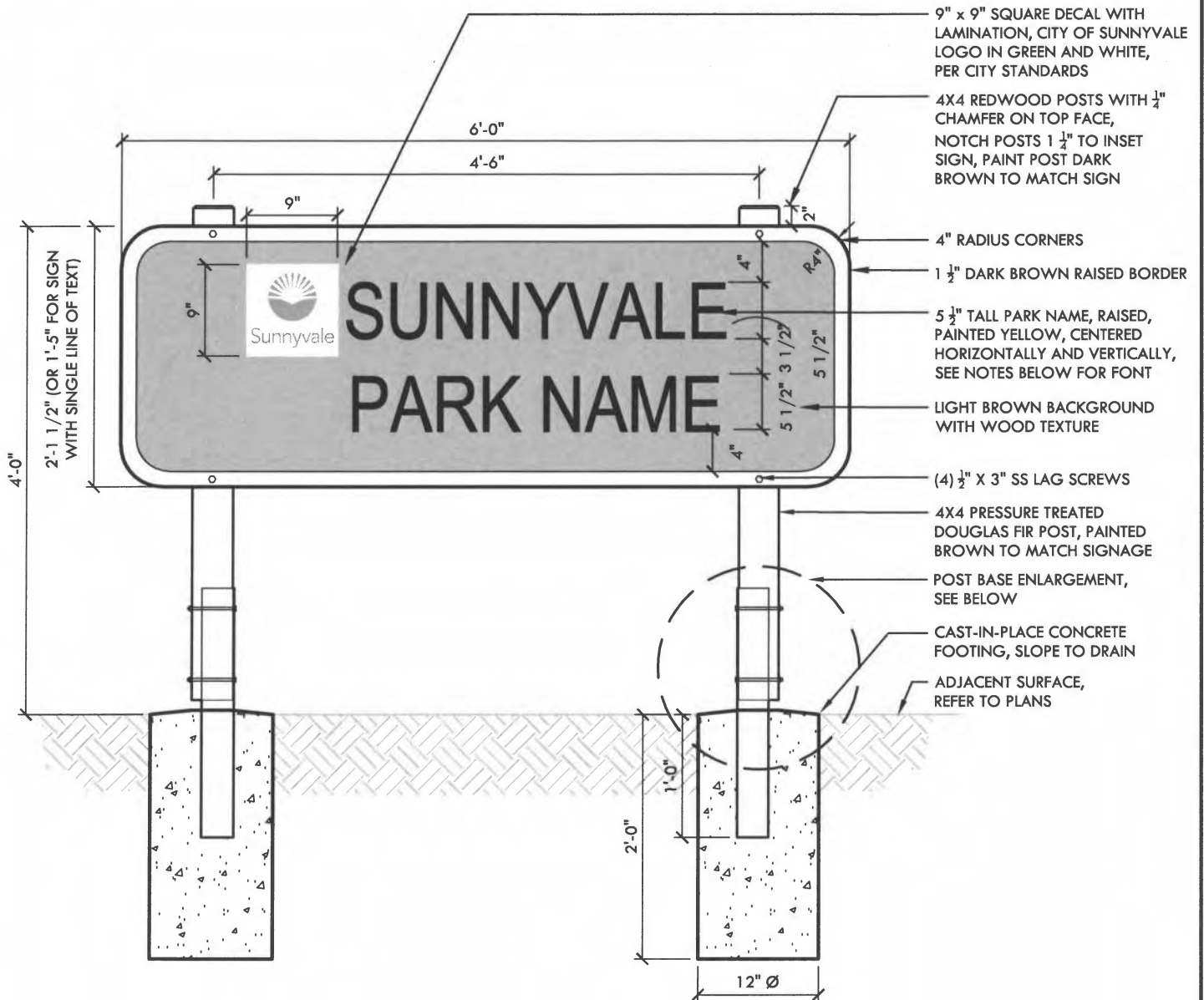
Sunnyvale

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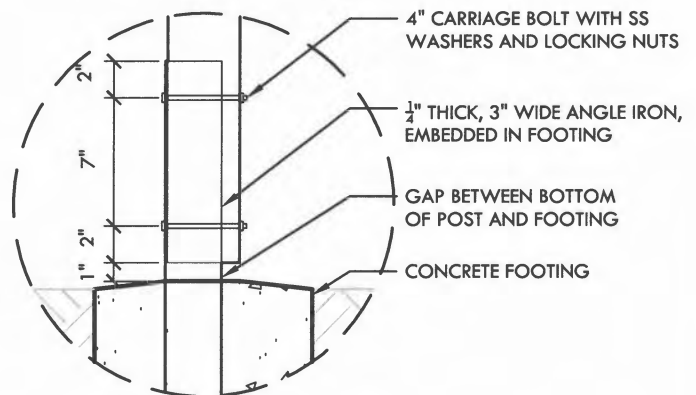
DATE: SEPTEMBER 22, 2021

DWG.

**PK-10**



**SIGN ELEVATION**



**POST BASE ENLARGEMENT**

**NOTES:**

1. SIGN TO BE CONSTRUCTION HEART REDWOOD. COLORS TO BE DARK BROWN RIM, YELLOW LETTERING AND LIGHT BROWN WOOD TEXTURED FACE.
2. SIGNAGE FONT TO BE: ARIAL NARROW
3. ALL BOLTS AND FASTENERS TO BE STAINLESS STEEL.
4. SQUARE DECAL WITH CITY OF SUNNYVALE LOGO AVAILABLE FROM THE SIGN SHOP, SAN JOSE, CA, (408) 266-9840
5. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIGNAGE TO BE APPROVED BY CITY PRIOR TO INSTALLATION.

**CITY PARK SIGN**



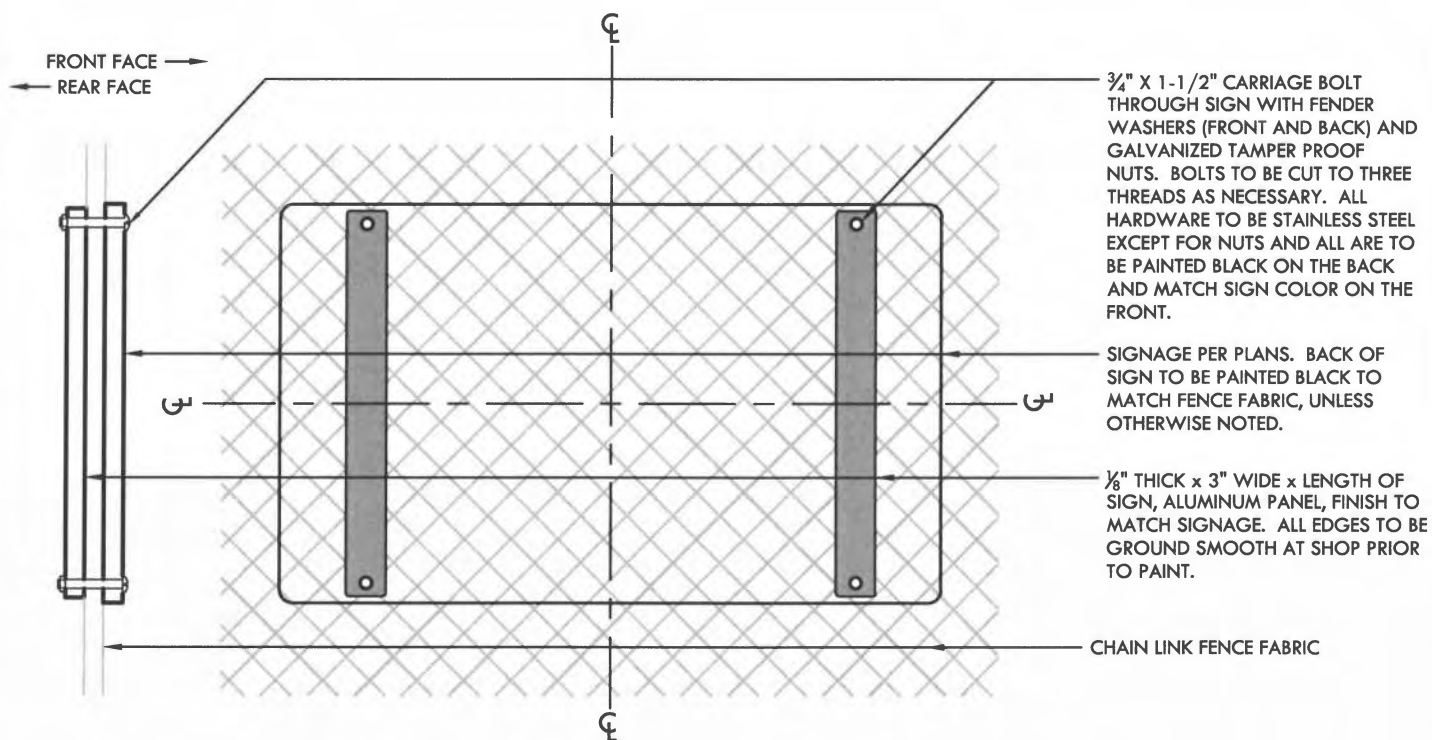
Sunnyvale

**DATE: FEBRUARY 28, 2022**

DWG.

APPROVED BY:

**PK-11**



## SECTION

## SIGN ATTACHMENT ELEVATION (REAR VIEW)

### NOTES:

1. CONTRACTOR TO BOLT THROUGH AT LOCATIONS ON THE SIGN THAT WILL NOT OBSTRUCT SIGN LANGUAGE, TYP.
2. CONTRACTOR TO TAKE PRECAUTIONS TO PREVENT DIMPLING OR WARPING OF SIGN AT BOLT ATTACHMENT LOCATIONS
3. BOTTOM OF LOWEST CHARACTERS ON SIGN ARE TO BE 40" MIN. FROM FINISH GRADE.
4. FOR SIGNAGE TO BE DISPLAYED ON BOTH SIDES OF FENCE, TWO SIGNS MAY BE SANDWICHED TOGETHER AS SHOWN IN SECTION.

## SIGN ATTACHMENT DETAIL ON CHAIN LINK FENCING



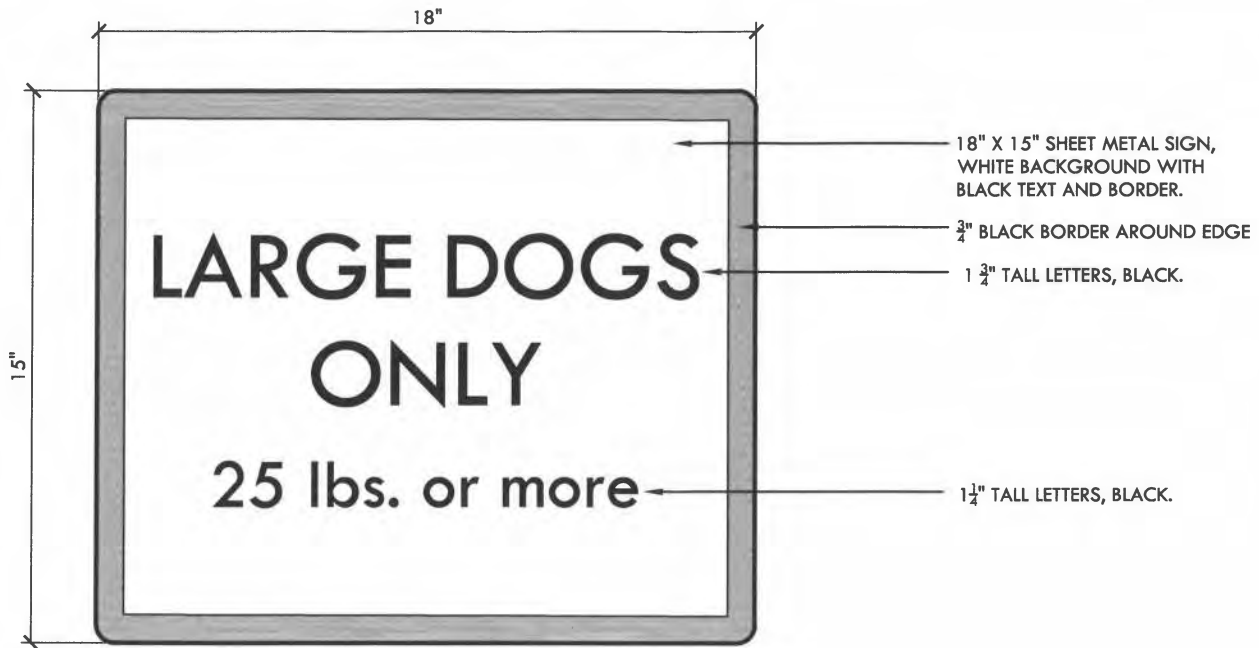
Sunnyvale

DATE: NOVEMBER 29, 2021

DWG.

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PK-12



LARGE DOGS ONLY SIGN



SMALL DOGS ONLY SIGN

**NOTES:**

1. ALL FONTS SHALL BE SANS-SERIF. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIGNAGE DETAILS.
2. METAL TO BE 16 GA ALUMINUM. NO OTHER SPECIFICATIONS ARE PROVIDED.
3. CONTRACTOR TO TAKE PRECAUTIONS TO PREVENT DIMPLING OR WARPING OF SIGN AT BOLT ATTACHMENT LOCATIONS
4. FOR SIGN ATTACHMENT AT FENCE REFER TO DETAIL PK-12.

**DOG PARK SIGNAGE**



Sunnyvale

DATE: NOVEMBER 30, 2021

*[Signature]*

APPROVED BY:

DWG.

**PK-13**

3" CLR.,  
TYP

POLE BASE PLATE

OVERLAP TIE ENDS 6" MIN. w/ STD. HOOK ENGAGING ADJACENT VERT. BARS AS SHOWN. LAPS OF SUCCESSIVE TIES SHALL ALTERNATE SIDE-TO-SIDE OF PIER, TYP.

(4) 3/4"Ø HEADED A.B.'s AT MANUFACTURER'S SPECIFIED BOLT CIRCLE

PEDESTRIAN LED LIGHT WITH CONCRETE POST PK 10

HANDHOLE OPENING  
(3" X 5 1/2" WITH ALUMINUM COVER)

POLE BASE PLATE

1-1/2"± NON-SHRINK GROUT

CROWN PIER TOP 1/2"±

2" CLR.

FINISH GRADE, REFER TO PLANS

(3) #4 TIES @ 2-1/2" O.C. AT TOP OF PIER

A.B. EMBEDMENT PER MANUFACTURER  
(MIN. 18" EMBED.)

#4 TIES @ 9" O.C.

ELECTRICAL CONDUIT

C.I.P. CONCRETE IN DRILLED PIER WITH (6) #6 LONGITUDINAL BARS WITH STD. HOOK AT TOP ENDS

**GENERAL NOTES:**

- 13.2' HIGH MAX. PEDESTRIAN LIGHT POLE
- CIRCULAR SPIRAL TIES OF SAME SIZE AS CIRCULAR TIES NOTED.
- REFER TO 2019 CALIFORNIA BUILDING CODE VOLUMES 1-2 (2018 INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS).
- LOADS:
  - WIND (GOVERNS OVER SEISMIC BY EXPOSURE C, 105 MPH BASIC WIND SPEED, Kzt=1.0, Kd=0.95, g=0.85)
  - LOAD COMBINATIONS FOR DESIGN OF CONCRETE: PER CBC 1605.2 FOR STEEL & FOUNDATIONS. PER CBC 1805.2 FOR CONCRETE.

4'-6" DEEP

24" O.C. CENTERED ON POLE

3" TO 6" CLR.

1. 13.2" HIGH MAX. PEDESTRIAN LIGHT POLE, PER DETAIL PK-10.
2. CIRCULAR SPIRAL TIES OF SAME SIZE AND PITCH MAY BE USED IN LIEU OF CIRCULAR TIES NOTED.
3. REFER TO 2019 CALIFORNIA BUILDING CODE (CBC), TITLE 24, PART 2, VOLUMES 1-2 (2018 INTERNATIONAL BUILDING CODE (IBC) WITH 2019 CALIFORNIA AMENDMENTS).
4. LOADS:
  - A) WIND (GOVERNS OVER SEISMIC BY INSPECTION):  
EXPOSURE C, 105 MPH BASIC WIND SPEED  
 $K_z=1.0$ ,  $K_d=0.95$ ,  $g=0.85$
  - B) LOAD COMBINATIONS FOR DESIGN:  
CONCRETE: PER CBC 1605.2 FOR STRENGTH DESIGN.  
STEEL & FOUNDATIONS: PER CBC 1605.3.2 FOR ALLOWABLE STRESS DESIGN.

1. SOIL LOAD-BEARING CRITERIA USED FOR FOUNDATION DESIGN, ARE IN COMPLIANCE WITH CONSERVATIVE, PRESUMPTIVE VALUES SPECIFIED IN CBC TABLE 1806.2:
  - ALLOW. LATERAL BEARING PRESSURE: 267 PSF w/ 1500 PSF MAX.
  - VALUES ABOVE INCLUDE 1/3 INCREASE FOR SHORT TERM LOADING.

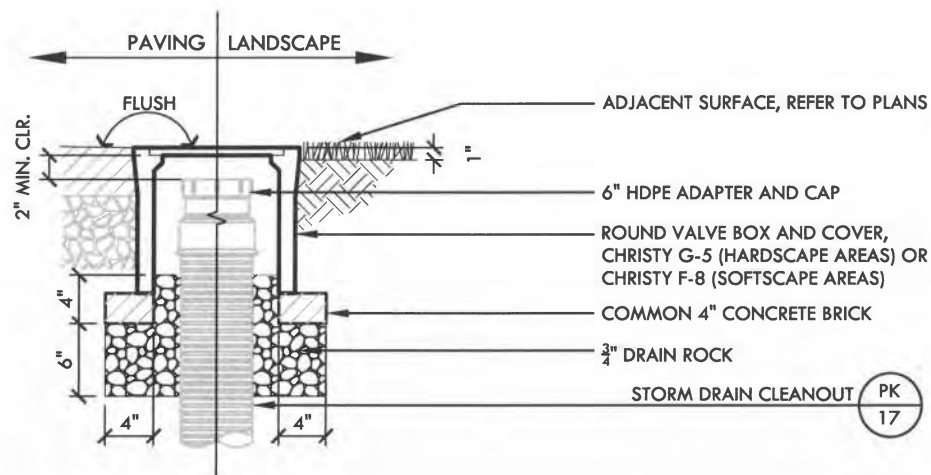


**APPROVED BY:**

**DWG.**

**PK-14**

## PK-15



## CLEANOUT IN HARDSCAPE/SOFTSCAPE

**CLEANOUT IN HARDSCAPE/SOFTSCAPE**



Sunnyvale

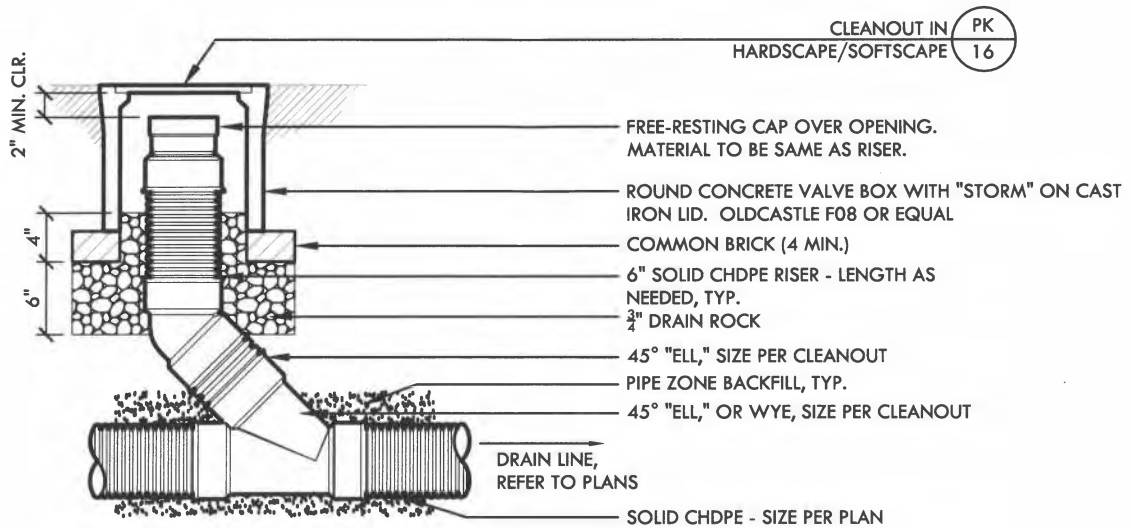
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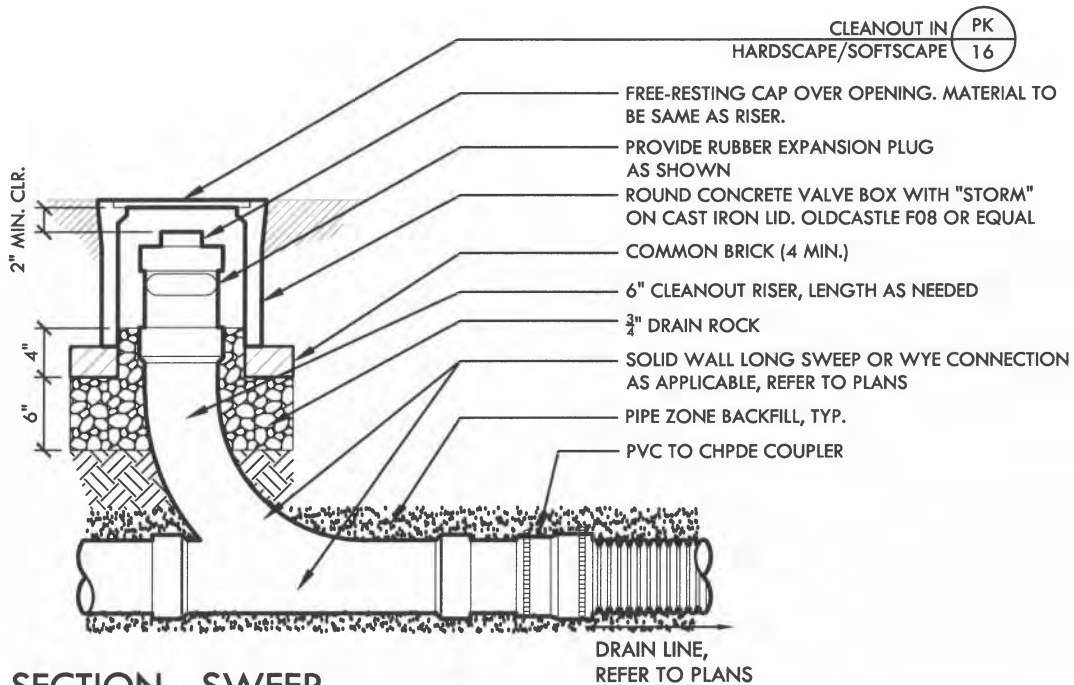
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**PK-16**



**SECTION - 45 ELBOW**



**SECTION - SWEEP**

**STORM DRAIN CLEANOUT**



Sunnyvale

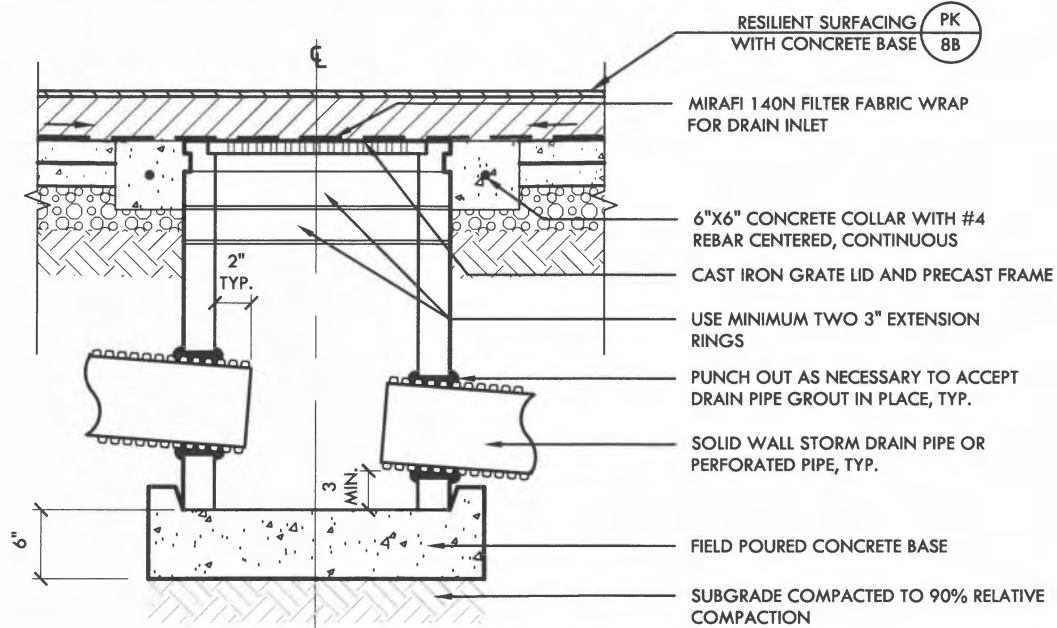
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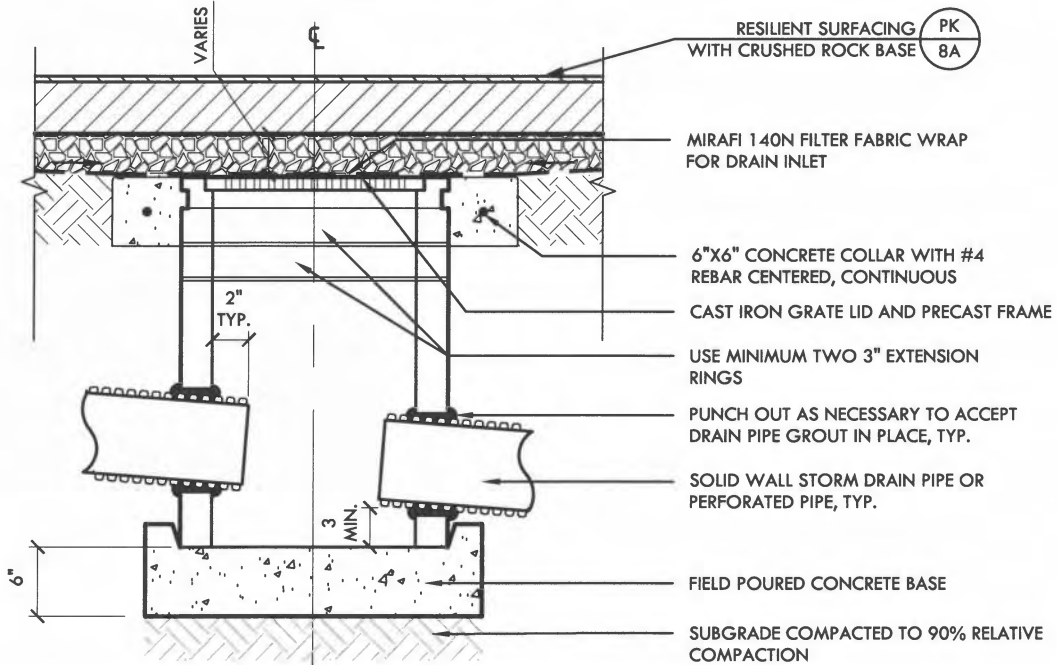
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**PK-17**



**SECTION AT RESILIENT SURFACING WITH CONCRETE BASE**



**SECTION AT RESILIENT SURFACING WITH CRUSHED ROCK BASE**

**NOTES:**

1. SET CATCH BASIN / JUNCTION BOX RIM FLUSH WITH ADJACENT SURFACE. VERIFY EXACT LOCATION AND RIM PRIOR TO INSTALLATION.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).

**CATCH BASIN UNDER  
RESILIENT SURFACING**



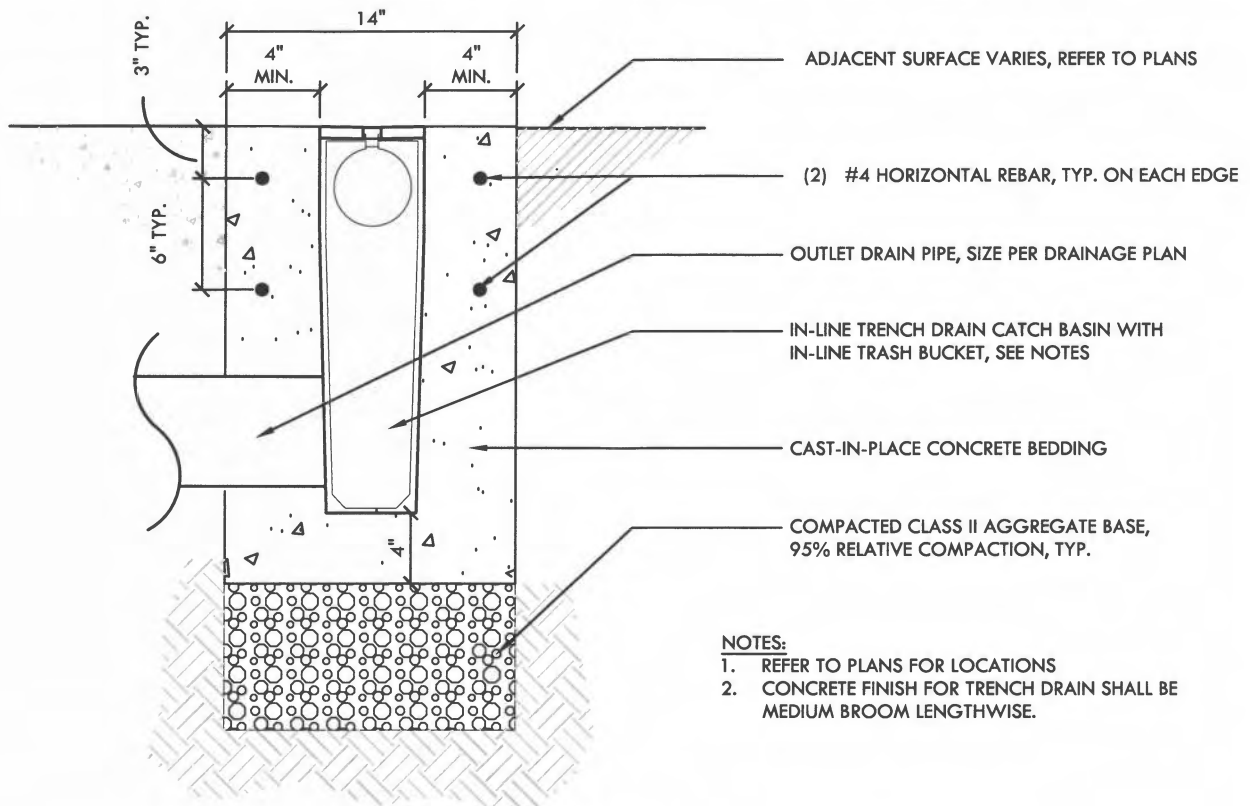
Sunnyvale

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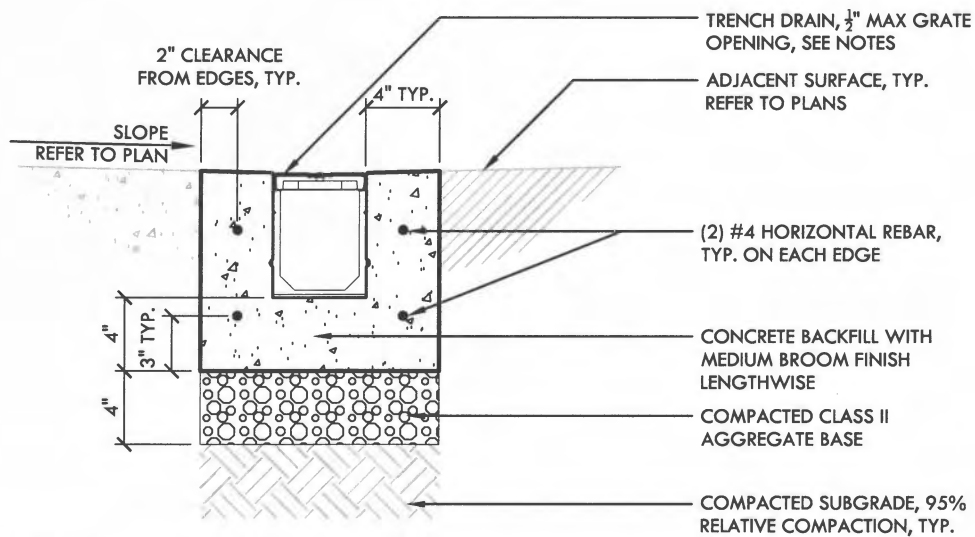
DWG.

APPROVED BY:

PK-18



## SECTION - TRENCH DRAIN CLEANOUT



## SECTION - TRENCH DRAIN

### NOTES:

1. TRENCH DRAIN TO BE PRE-SLOPED SLOT CHANNEL DRAIN MODEL KS 100S WITH 600-SERIES IN-LINE CATCH BASIN, FROM ACO POLYMER PRODUCTS, OR EQUAL.
2. TRENCH DRAIN GRATE IN PEDESTRIAN AREAS TO BE MODEL 494Q W/ QUICK LOCKING DEVICE, IN VEHICULAR TRAFFIC AREAS, USE MODEL 465Q.
3. PROVIDE SAW CUT JOINT 8' ON CENTER AND ALIGN WITH FENCE POSTS, WHERE APPLICABLE.
4. CONCRETE JOINTS TO BE ON BOTH SIDE OF GRATE.
5. CONCRETE FINISH FOR TRENCH DRAIN SHALL BE MEDIUM BROOM LENGTHWISE.

**CONCRETE TRENCH DRAIN  
AND CLEANOUT**



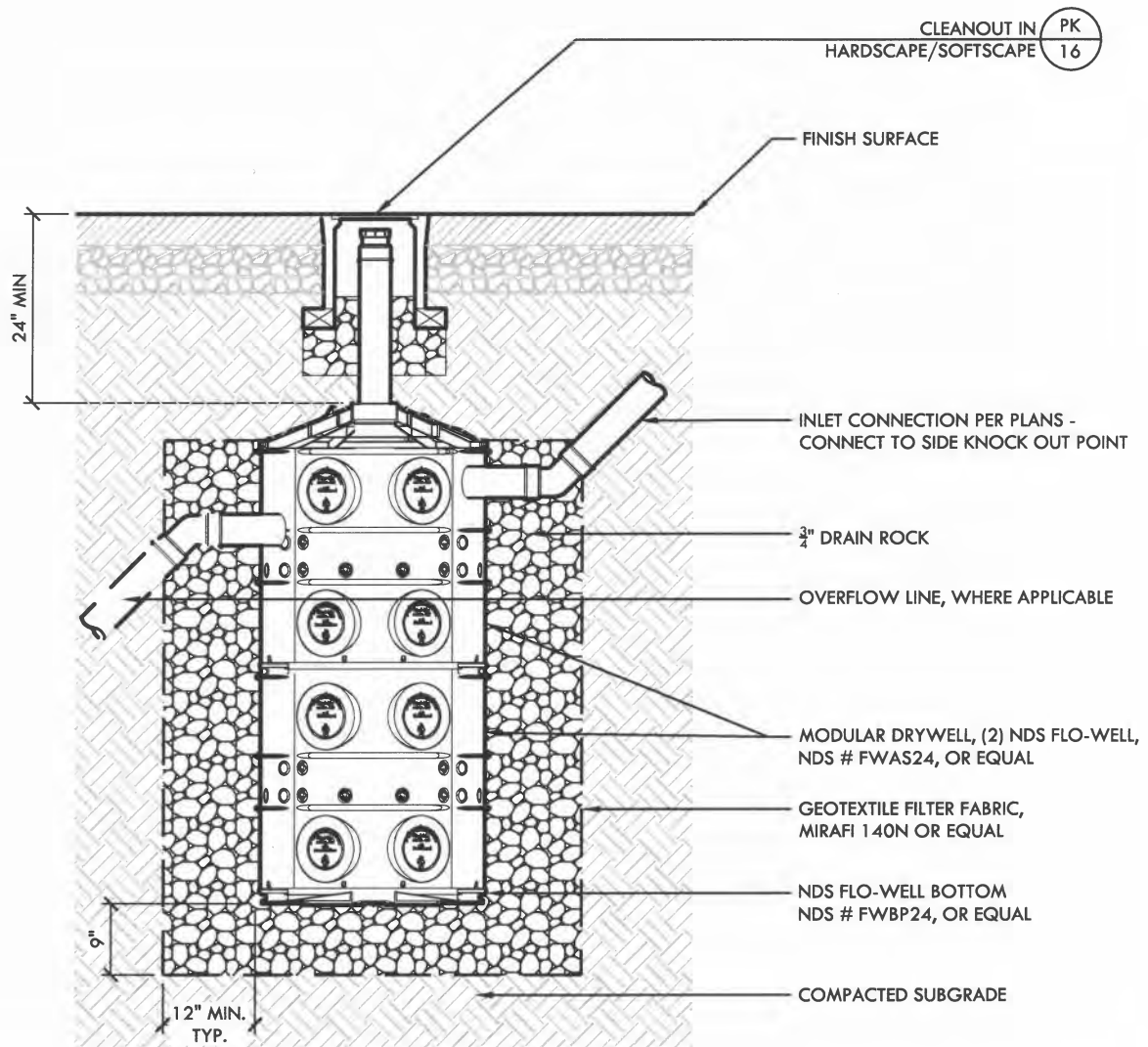
Sunnyvale

DATE: NOVEMBER 29, 2021

DWG.

APPROVED BY:

**PK-19**



## DRYWELL SECTION

**DRYWELL**



Sunnyvale

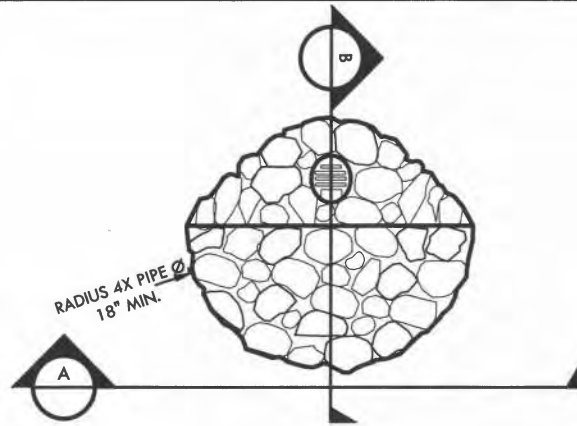
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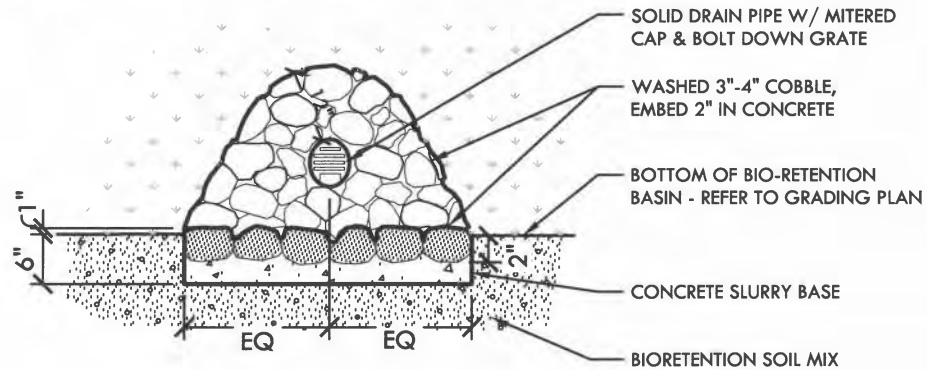
APPROVED BY:

DWG.

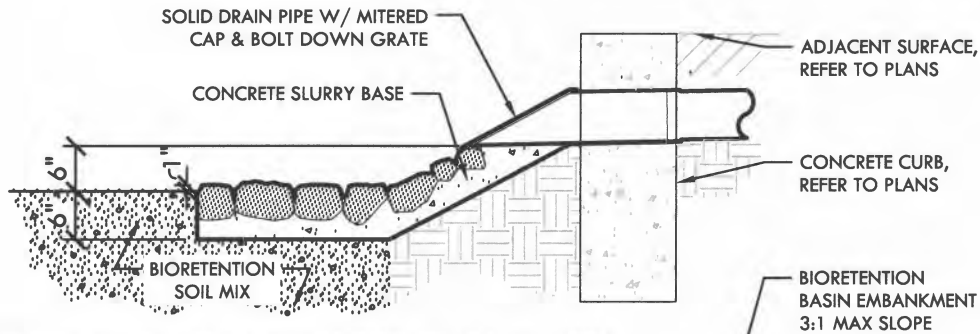
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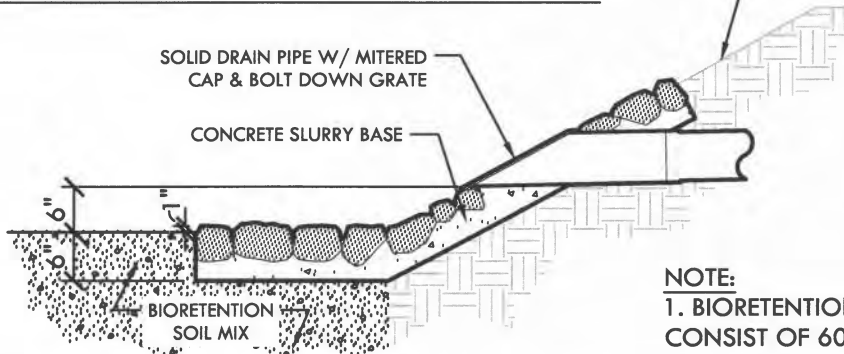
## PLAN



## FRONT SECTION/ELEVATION A



## SECTION B AT CONCRETE CURB INLET



## SECTION B AT LANDSCAPE AREA INLET

**NOTE:**  
1. BIORETENTION SOIL MIX SHALL  
CONSIST OF 60-70% COMPOST BY  
VOLUME, 30-40% SAND BY VOLUME,  
WITH PERMEABILITY OF AT LEAST 5 IN/HR

**ENERGY DISSIPATOR**



Sunnyvale

DATE: FEBRUARY 28, 2022

DWG.

APPROVED BY:

**PK-22**

# BIORETENTION AREA

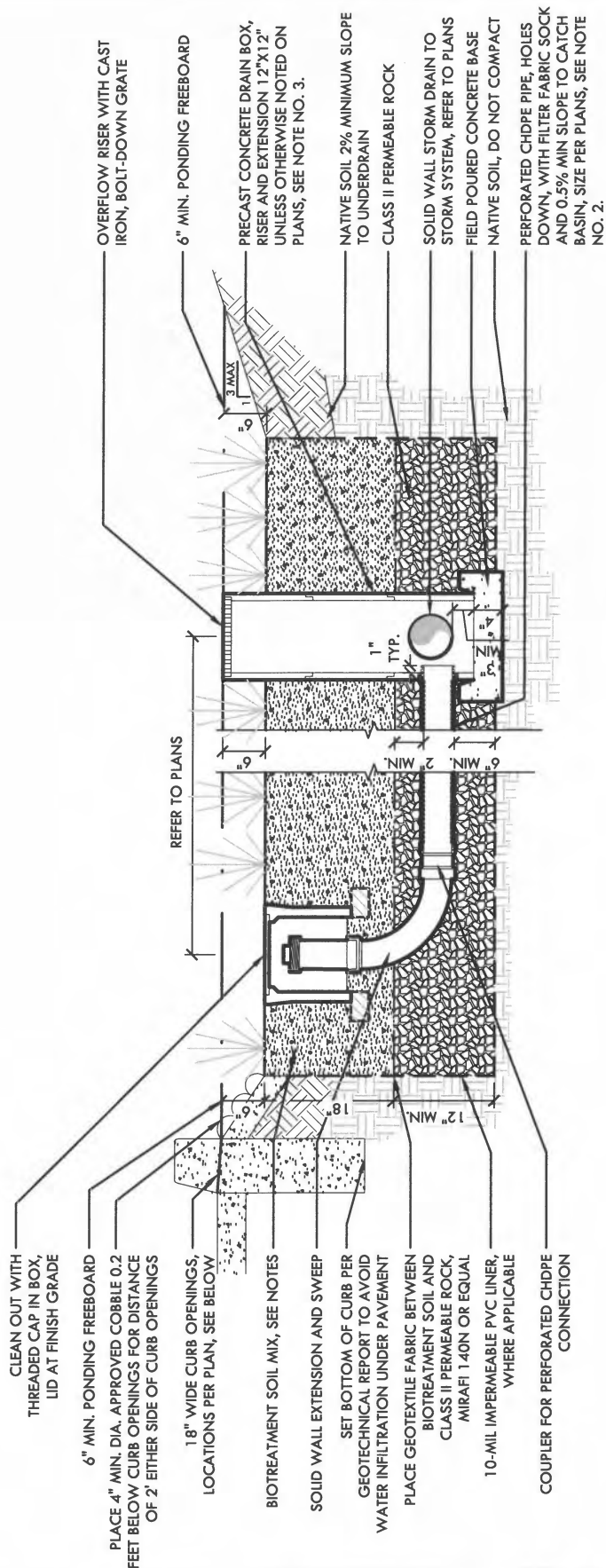


DATE: SEPTEMBER 22, 2021

DWG.

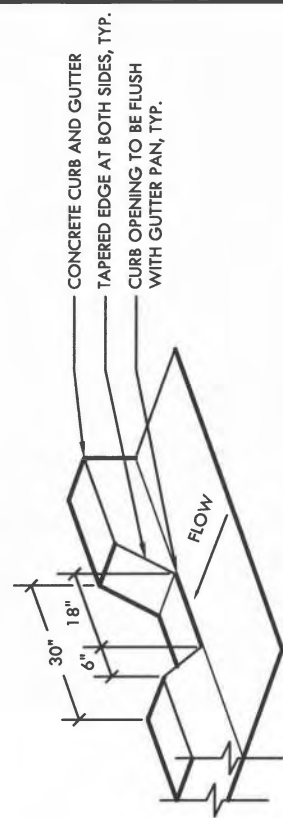
APPROVED BY:

PK-23



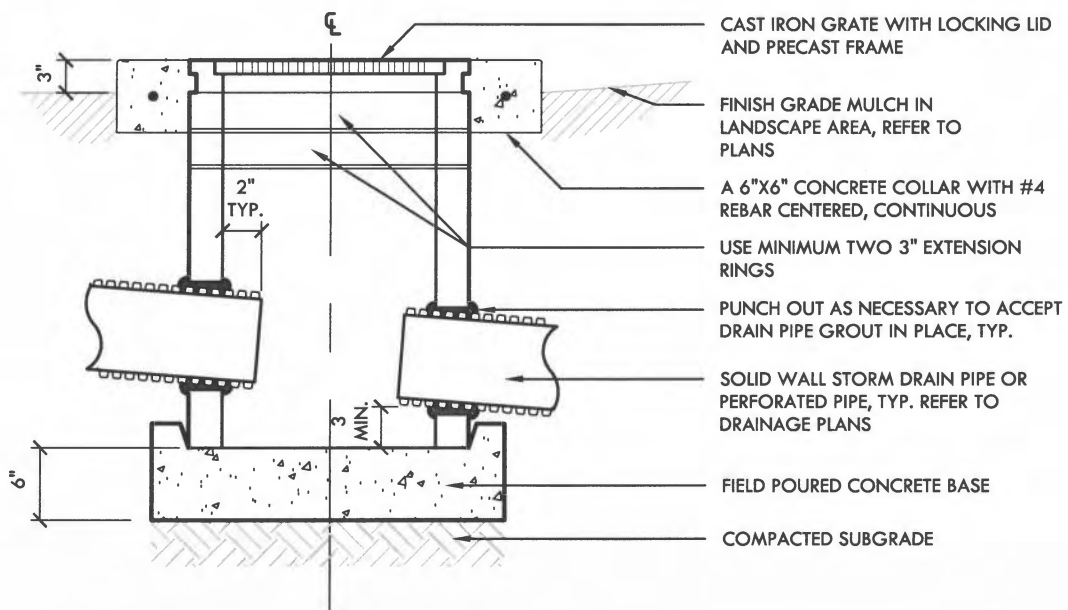
BIORETENTION AREA SECTION AT PARKING LOT

BIORETENTION AREA SECTION AT PLANTING AREA



18" WIDE CURB OPENING AT PARKING LOT

- NOTES:
1. VERIFY EXACT LOCATION, RIM, ELEVATIONS AND PIPE SIZES PRIOR TO INSTALLATION.
  2. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
  3. CONCRETE BOX RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
  4. ALL LIDS/GRATES SHALL BE FITTED WITH BOLT OR LOCK-DOWN MECHANISMS.
  5. BIORETENTION SOIL SHALL CONSIST OF 60-70% COMPOST BY VOLUME, 30-40% SAND BY VOLUME, WITH A PERMEABILITY OF AT LEAST 5 IN/HR
  6. DETAIL ADAPTED FROM CURRENT SCURPPP C.3 STORMWATER HANDBOOK, FIGURE 6-3. CONTRACTOR SHALL REFER TO CURRENT HANDBOOK FOR UPDATES THAT MAY SUPERCEDE THIS DETAIL.



#### SECTION - CATCH BASIN IN SELF-RETAINING AREA

#### NOTES:

1. SET CATCH BASIN / JUNCTION BOX ABOVE ADJACENT SURFACE GRADE AS SHOWN. VERIFY EXACT LOCATION AND RIM PRIOR TO INSTALLATION.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
5. ALL GRATES SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.

**CATCH BASIN IN SELF-RETAINING AREA**



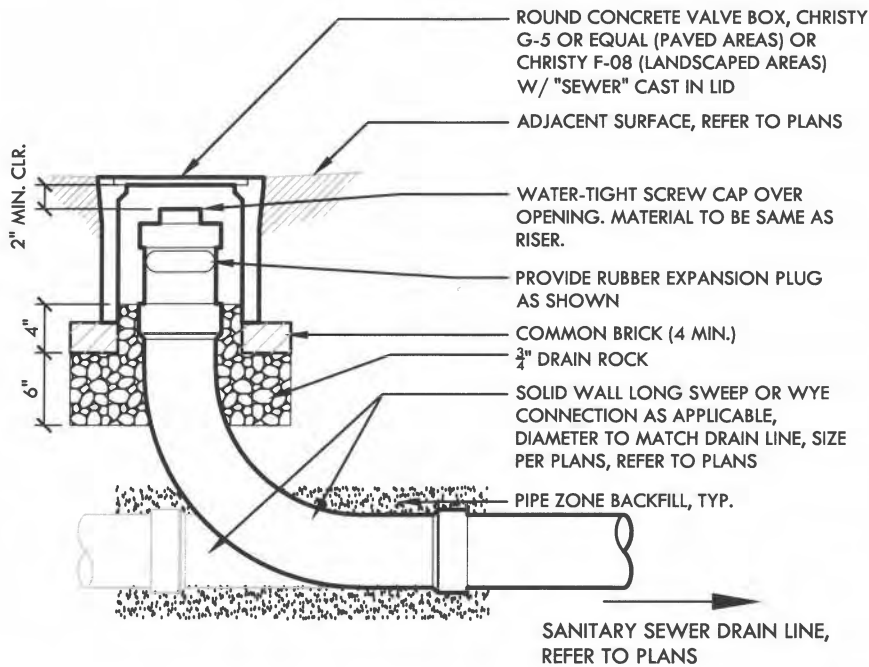
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DATE: SEPTEMBER 22, 2021

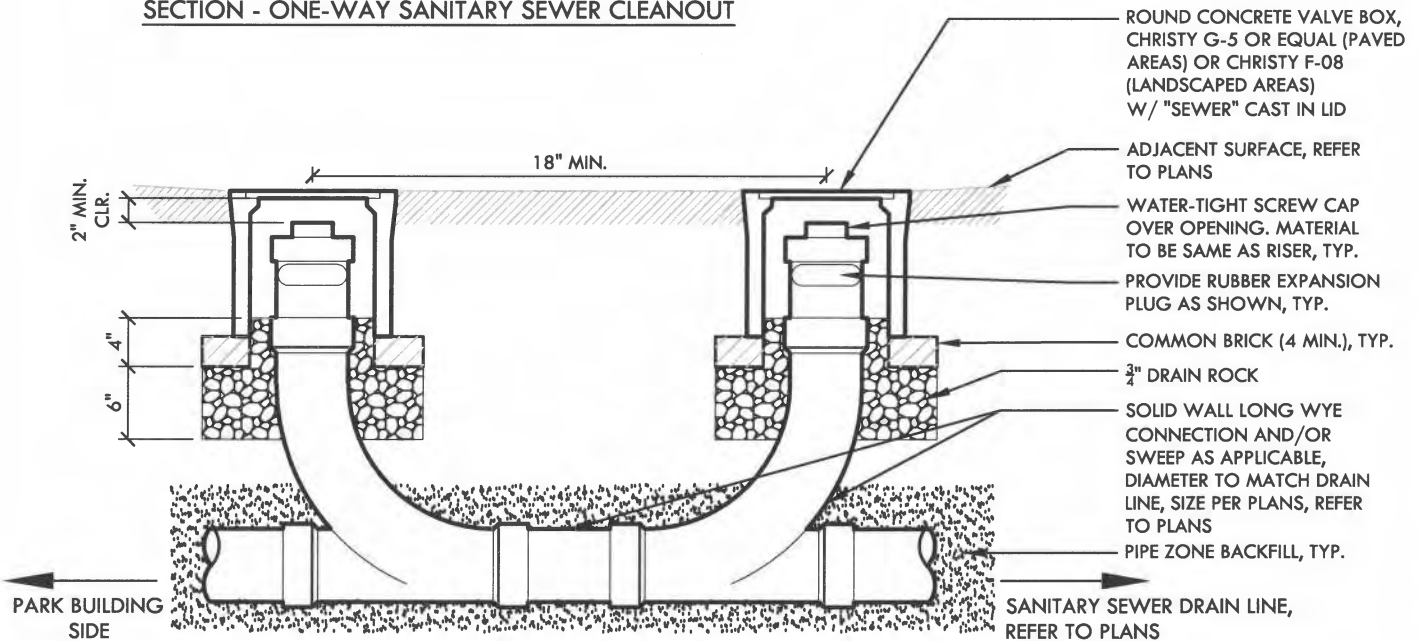
APPROVED BY:

DWG.

**PK-24**



#### SECTION - ONE-WAY SANITARY SEWER CLEANOUT



#### SECTION - TWO-WAY SANITARY SEWER CLEANOUT

##### NOTE:

1. EXTERIOR TWO-WAY SANITARY SEWER CLEANOUTS LEAVING PARK BUILDINGS SHALL BE INSTALLED WITHIN 10 FEET OF BUILDING, TYP.
2. BEYOND TWO-WAY SANITARY SEWER CLEANOUTS, ONE-WAY CLEANOUTS SHALL BE INSTALLED AS NECESSARY.

### SANITARY SEWER CLEANOUT AT PARK BUILDING



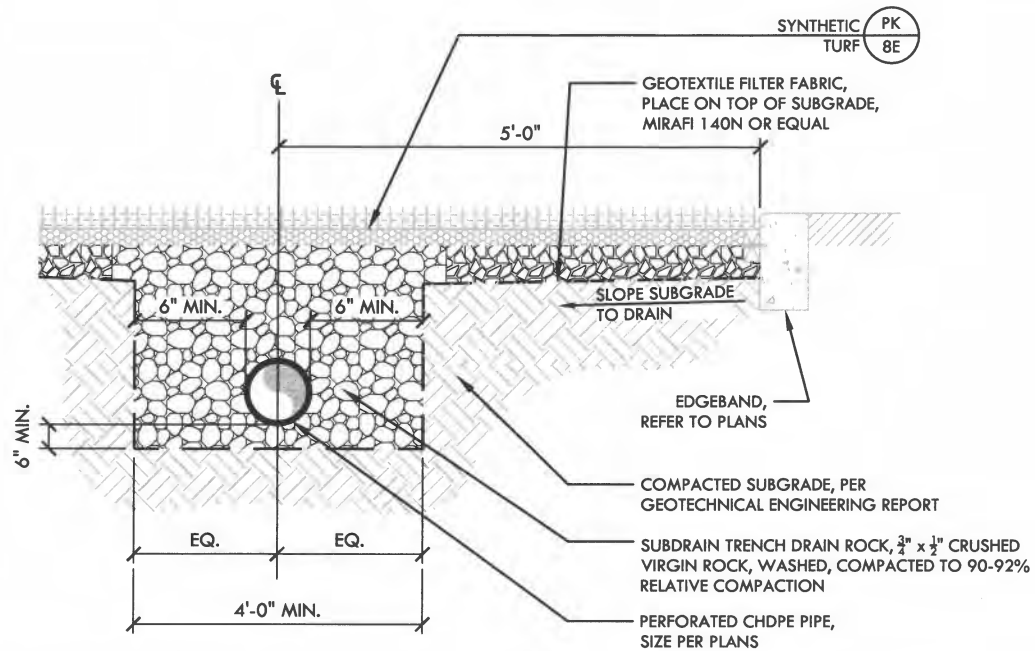
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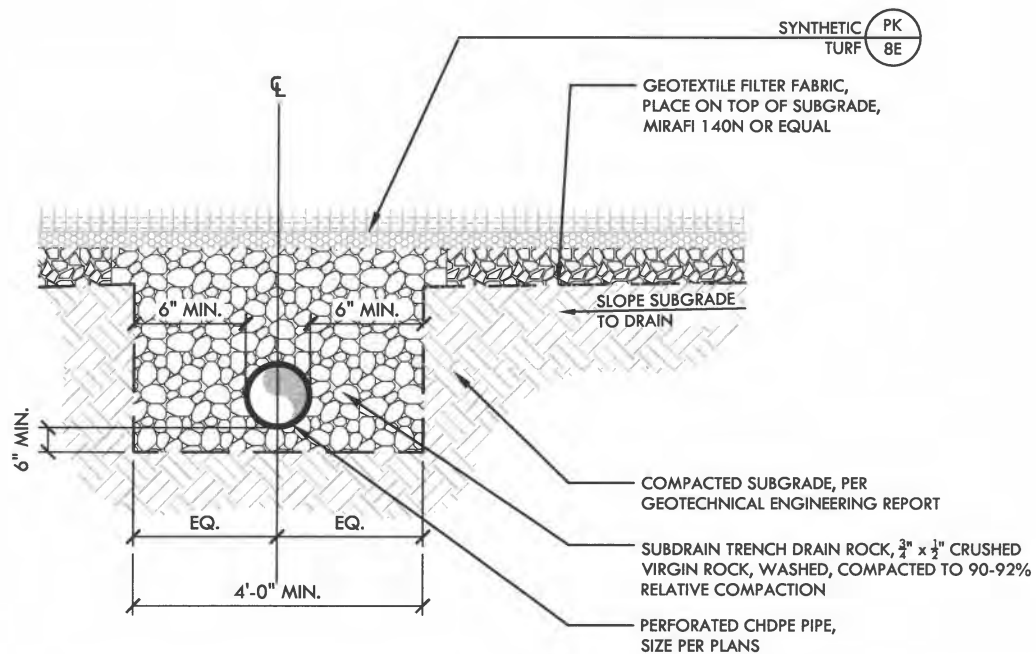
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PK-25



**SECTION AT FIELD EDGE**



**SECTION AT FIELD INTERIOR**

**PERFORATED SUBDRAIN  
IN SYNTHETIC TURF**



Sunnyvale

DATE: SEPTEMBER 22, 2021

*[Signature]*

APPROVED BY:

DWG.

**PK-26**

NOTES PERTAIN TO ALL CHAIN LINK GATE AND FENCE DETAILS:

1. PLACE FENCE FABRIC ON FIELD/COURT SIDE. FENCE FABRIC ON PERIMETER FENCING IS TO BE ON FIELD SIDE.
2. BOTTOM RAIL TO BE 2" FROM FINISH GRADE, FENCE FABRIC BOTTOM EDGE TO BE 1" FROM FINISH GRADE.
3. SUBMIT SHOP DRAWINGS FOR ACCEPTANCE BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
4. GATES IN PATH OF TRAVEL MUST MEET ENTRY AND EXIT DOOR REQUIREMENTS.
5. WHERE INDICATED, PROVIDE LOCKING DEVICE TO SECURE GATE IN OPEN POSITION. SEE GATE DROP ROD DETAIL DETAIL PK-44.
6. ALL PEDESTRIAN SWING GATES SHALL RECEIVE A GATE LOCK. SEE DETAIL PK-43. PEDESTRIAN GATES ARE NOTED BY HAVING A KICK PLATE ATTACHMENT.
7. REFER TO PLANS FOR EDGE BAND TYPE UNLESS OTHERWISE NOTED.
8. REFER TO DETAIL PK-31, CHAIN LINK FENCE AT CURB STEP, FOR FENCING WITH CURBS, STEPS, AND CHANGE IN ELEVATIONS.
9. FOR GATES WITH DROP ROD, PROVIDE 8" DEEP FOOTING WITH SCH. 40 STEEL PIPE SLEEVE. CANE STOP TO GO DOWN 4" INTO CONCRETE IN CLOSED POSITION AND OPEN POSITION.
10. TACK WELD HINGES TO POSTS AT GATES.
11. DOUBLE SWING GATES THAT ARE INLINE WITH FENCING, GATE POSTS SHALL BE OFFSET FROM THE FENCE TO ALLOW SWING GATES TO OPEN A FULL 180° BACK AGAINST THE FENCE PER PLAN LAYOUT.
12. THE PIPE SIZES INDICATED ARE NPS FOR STANDARD GALV. PIPE SCHEDULE 40.
13. REFER TO FENCE POST ALIGNMENT DETAIL, DETAIL PK-29, FOR EDGE BAND & POST ALIGNMENT AT INTERFACE OF INCONGRUENT FENCE SIZES.
14. GALVANIZED CHAIN LINK FABRIC WITH PAINTED POSTS, GATES, HARDWARE, AND RELATED APPURTENANCES TO BE THERMALLY FUSED AND BONDED PVC COATED ("VINYL COATED"), COLOR SHALL BE BLACK.

**FENCE AND  
GATE NOTES**



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DATE: SEPTEMBER 22, 2021

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**PK-27**

NOTES PERTAIN TO ALL EDGE BAND AND CURB DETAILS:

1. FOR EDGE BANDS AND CURBS WITH FENCING, INSTALL EXPANSION JOINTS AT ALL CORNERS, BEGINNINGS, AND ENDINGS OF RADII, AND AT ALL FENCE POSTS. INSTALL SCORE JOINTS AT 5' O.C. AND OR EVENLY SPACED AND CENTERED BETWEEN POSTS.
2. FOR EDGE BAND AND CURBS WITHOUT FENCING, INSTALL SCORE JOINTS AT 10' O.C. SPACING AND FIBER EXPANSION JOINTS EVERY 20' ON STRAIGHT RUNS. ON CURVED RUNS, FIBER EXPANSION JOINTS SHALL BE SPACED 10' O.C., WITH ALTERNATING SCORE JOINTS AT 5' O.C. SPACING.
3. ALL EXPANSION JOINTS SHALL BE SEALED WITH SELF-LEVELING POLYURETHANE SEALANT, SONNENBORN 'SONOLASTIC SL-2,' OR EQUAL.

NOTES PERTAIN TO ALL TALL CURB DETAILS:

1. PROVIDE EXPANSION JOINTS AT 16' O.C. SPACING, CENTERED BETWEEN FENCE POSTS.
2. PROVIDE EXPANSION JOINTS AT EACH LOCATION WHERE AN ELEVATION STEP OCCURS BETWEEN CHANGING CURB/EDGE BAND TYPES.
3. AT EXPANSION JOINTS, PROVIDE A 24" LONG #4 DOWEL AT EACH CURB HORIZONTAL REBAR, CENTERED ON THE JOINT, AS PER DETAIL.
4. EXPANSION JOINTS SHALL BE INSTALLED WITH A 3/4" CHAMFER BUILT INTO THE FORM WORK, IN ADDITION TO THE FIBER EXPANSION JOINT MATERIAL.
5. PROVIDE A CONTROL JOINT AT EACH FENCE POST. THE VERTICAL JOINT SHALL BE A 3/4" CHAMFER BUILT INTO THE FORM WORK. THE HORIZONTAL JOINT, ALONG THE TOP OF CURB, SHALL BE A TOOLED SCORE JOINT, ALIGNED WITH AND MATCHING THE VERTICAL CHAMFER JOINT.
6. ALL EXPANSION JOINTS SHALL BE SEALED PER SPECIFICATION.
7. NO SCORE JOINTS ARE REQUIRED ON TALL CURBS, EXCEPT AS INDICATED AT EACH FENCE POST IN ITEM #5 ABOVE.

FINISHES (UNLESS OTHERWISE NOTED):

EDGE BANDS AND CURBS: MEDIUM BROOM

WALL AND TALL CURBS: ARCHITECTURAL FINISH - TOP AND SIDES

**EDGE BAND AND  
TALL CURB NOTES**



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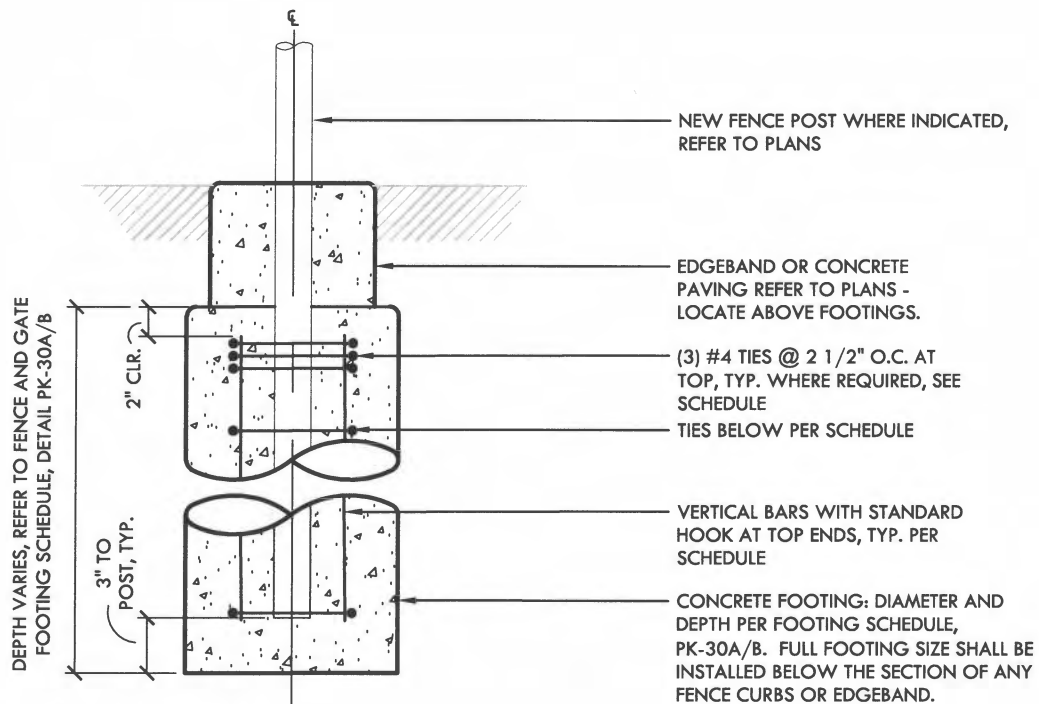
DATE: FEBRUARY 28, 2022

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APPROVED BY:

DWG.

**PK-28**



## FOOTING SECTION

**FENCE AND GATE FOOTING**



Sunnyvale

DATE: SEPTEMBER 22, 2021

DWG.

APPROVED BY:

**PK-29**

# FENCE AND GATE FOOTING SCHEDULE



Sunnyvale

DATE: FEBRUARY 28, 2022

DWG.

APPROVED BY:

PK-30

## FENCES

| DESCRIPTION               | HEIGHT | POSTS<br>(STD. GALV. PIPE)    |                               | POST<br>SPACING<br>(MAX) | FOOTING               | MINIMUM<br>REBAR<br>REQUIRED | TIE SIZE              | POSTS<br>(STD. GALV. PIPE)    |                               | POST<br>SPACING<br>(MAX) | FOOTING                | MINIMUM<br>REBAR<br>REQUIRED | TIE SIZE              | MINIMUM<br>REBAR<br>REQUIRED | TIE SIZE              | DETAIL<br>REF        |
|---------------------------|--------|-------------------------------|-------------------------------|--------------------------|-----------------------|------------------------------|-----------------------|-------------------------------|-------------------------------|--------------------------|------------------------|------------------------------|-----------------------|------------------------------|-----------------------|----------------------|
|                           |        | LINE                          | CORNER/<br>END                |                          |                       |                              |                       | LINE                          | CORNER/<br>END                |                          |                        |                              |                       |                              |                       |                      |
| 42" TALL CHAIN LINK FENCE | 42"    | 1-1/2"<br>DIA. STD.           | 2" DIA.<br>STD.               | 8'-0"                    | 12" DIA. X 3'-6" DEEP | NONE                         | NONE                  | 2" DIA.<br>STD.               | 3" DIA.<br>STD.               | 8'-0"                    | 12" DIA. X 5'-6" DEEP  | NONE                         | NONE                  | NONE                         | NONE                  | <div>PK<br/>35</div> |
| 6' TALL CHAIN LINK FENCE  | 6'-0"  | 2-1/2"<br>DIA. STD.           | 3" DIA.<br>STD.               | 8'-0"                    | 12" DIA. X 4'-0" DEEP | NONE                         | NONE                  | 3" DIA.<br>STD.               | 3-3/4" DIA.<br>STD.           | 8'-0"                    | 12" DIA. X 6'-6" DEEP  | NONE                         | NONE                  | NONE                         | NONE                  | <div>PK<br/>36</div> |
| 8' TALL CHAIN LINK FENCE  | 8'-0"  | 2-1/2"<br>DIA. STD.           | 3" DIA.<br>STD.               | 8'-0"                    | 16" DIA. X 4'-6" DEEP | NONE                         | NONE                  | 4" DIA.<br>STD.               | 4" DIA.<br>STD.               | 8'-0"                    | 16" DIA. X 7'-0" DEEP  | NONE                         | NONE                  | NONE                         | NONE                  | <div>PK<br/>37</div> |
| 10' TALL CHAIN LINK FENCE | 10'-0" | 2-1/2"<br>DIA. STD.           | 3" DIA.<br>STD.               | 8'-0"                    | 18" DIA. X 4'-0" DEEP | (4) #4 VERT                  | #4 TIES @<br>12" O.C. | 5" DIA.<br>STD.               | 5" DIA.<br>STD.               | 8'-0"                    | 18" DIA. X 8'-0" DEEP  | (4) #4 VERT                  | #4 TIES @<br>12" O.C. | (4) #4 VERT                  | #4 TIES @<br>12" O.C. | <div>PK<br/>38</div> |
| 14' TALL CHAIN LINK FENCE | 14'-0" | 4" DIA.<br>STD.               | 5" DIA.<br>STD.               | 8'-0"                    | 18" DIA. X 5'-0" DEEP | (4) #4 VERT                  | #4 TIES @<br>12" O.C. | 6" DIA.<br>STD.               | 6" DIA.<br>STD.               | 8'-0"                    | 18" DIA. X 9'-0" DEEP  | (4) #4 VERT                  | #4 TIES @<br>12" O.C. | (4) #4 VERT                  | #4 TIES @<br>12" O.C. | <div>PK<br/>39</div> |
| 16' TALL CHAIN LINK FENCE | 16'-0" | 4" DIA.<br>STD.               | 5" DIA.<br>STD.               | 8'-0"                    | 18" DIA. X 5'-6" DEEP | (4) #4 VERT                  | #4 TIES @<br>12" O.C. | 8" DIA.<br>STD.               | 8" DIA.<br>STD.               | 8'-0"                    | 18" DIA. X 10'-0" DEEP | (4) #4 VERT                  | #4 TIES @<br>12" O.C. | (4) #4 VERT                  | #4 TIES @<br>12" O.C. | <div>PK<br/>40</div> |
| 20' TALL CHAIN LINK FENCE | 20'-0" | 5" DIA.<br>STD.               | 5" DIA.<br>STD.               | 10'-0"                   | 18" DIA. X 6'-6" DEEP | (4) #4 VERT                  | #4 TIES @<br>12" O.C. | 10" DIA.<br>STD.              | 10" DIA.<br>STD.              | 10'-0"                   | 18" DIA. X 12'-0" DEEP | (4) #4 VERT                  | #4 TIES @<br>12" O.C. | (4) #4 VERT                  | #4 TIES @<br>12" O.C. | <div>PK<br/>41</div> |
| 42" TALL ORNAMENTAL FENCE | 42"    | HSS<br>4"x4"x $\frac{1}{8}$ " | HSS<br>4"x4"x $\frac{1}{8}$ " | 8'-0"                    | 16" DIA. X 3'-6" DEEP | NONE                         | NONE                  | HSS<br>4"x4"x $\frac{1}{8}$ " | HSS<br>4"x4"x $\frac{1}{8}$ " | 8'-0"                    | 18" DIA. X 5'-0" DEEP  | NONE                         | NONE                  | NONE                         | NONE                  | <div>PK<br/>42</div> |

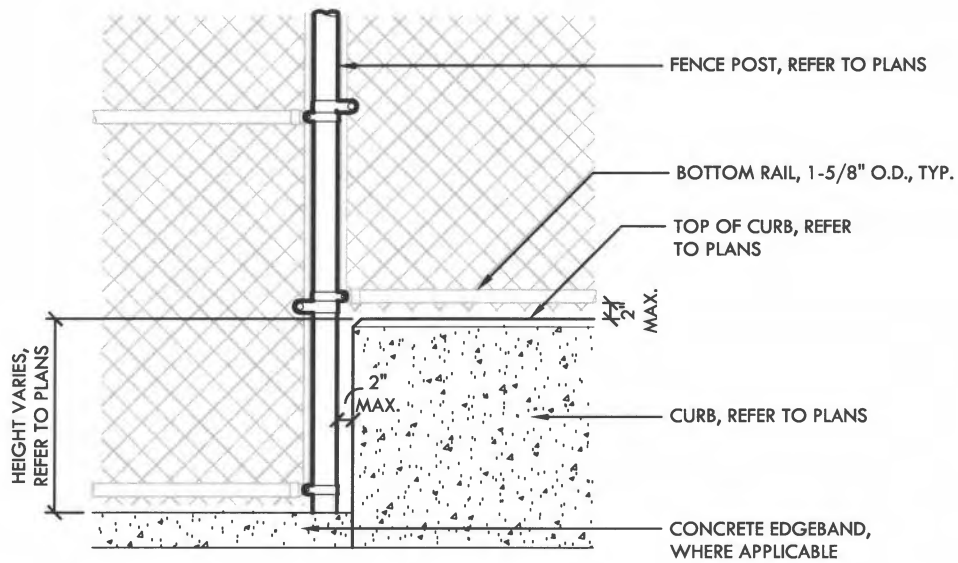
## GATES

| DESCRIPTION                                                | SIZE (H x L) | WITHOUT WINDSCREEN      |                       |                     |                    | WITH WINDSCREEN         |                        |                     |                    | DETAIL REF |
|------------------------------------------------------------|--------------|-------------------------|-----------------------|---------------------|--------------------|-------------------------|------------------------|---------------------|--------------------|------------|
|                                                            |              | POSTS (STD. GALV. PIPE) | FOOTING               | MIN. REBAR REQUIRED | TIE SIZE           | POSTS (STD. GALV. PIPE) | FOOTING                | MIN. REBAR REQUIRED | TIE SIZE           |            |
| 42" TALL X 4' WIDE SWING GATE WITH DOUBLE ACCESSIBLE LEVER | 42' X 4'     | 2" DIA. STD.            | 12" DIA. X 3'-6" DEEP | NONE                | NONE               | 3" DIA. STD.            | 12" DIA. X 5'-6" DEEP  | NONE                | NONE               | PK 47      |
| 42" TALL X 4' WIDE SWING GATE WITH PANIC HARDWARE          | 42' X 4'     | 2" DIA. STD.            | 12" DIA. X 3'-6" DEEP | NONE                | NONE               | 3" DIA. STD.            | 12" DIA. X 5'-6" DEEP  | NONE                | NONE               | PK 47      |
| 42" TALL X 20' WIDE SLIDING GATE                           | 42" X 20'    | 3" DIA. STD.            | 18" DIA. X 4'-0" DEEP | NONE                | NONE               | 3" DIA. STD.            | 18" DIA. X 7'-0" DEEP  | NONE                | NONE               | PK 51      |
| 8' TALL X 4' WIDE SWING GATE                               | 8' X 4'      | 3" DIA. STD.            | 16" DIA. X 4'-0" DEEP | NONE                | NONE               | 4" DIA. STD.            | 16" DIA. X 7'-0" DEEP  | NONE                | NONE               | PK 48      |
| 8' TALL X 4' WIDE SWING GATE IN TALL FENCE                 | 8' X 4'      | 5" DIA. STD.            | 18" DIA. X 6'-6" DEEP | (4) #4 VERT         | #4 TIES @ 12" O.C. | *10" DIA. STD.          | 18" DIA. X 10'-0" DEEP | (4) #4 VERT         | #4 TIES @ 12" O.C. | PK 49      |
| 8' TALL X 8' WIDE DBL SWING GATE IN TALL FENCE             | 8' X 8'      | 5" DIA. STD.            | 18" DIA. X 6'-6" DEEP | (4) #4 VERT         | #4 TIES @ 12" O.C. | *10" DIA. STD.          | 18" DIA. X 10'-0" DEEP | (4) #4 VERT         | #4 TIES @ 12" O.C. | PK 50      |
| 42" TALL ORNAMENTAL GATE                                   | 42" X 6'     | HSS 4" X 4" X 1/8"      | 16" DIA. X 4'-0" DEEP | NONE                | NONE               | HSS 4" X 4" X 1/8"      | 18" DIA. X 5'-0" DEEP  | NONE                | NONE               | PK 52      |

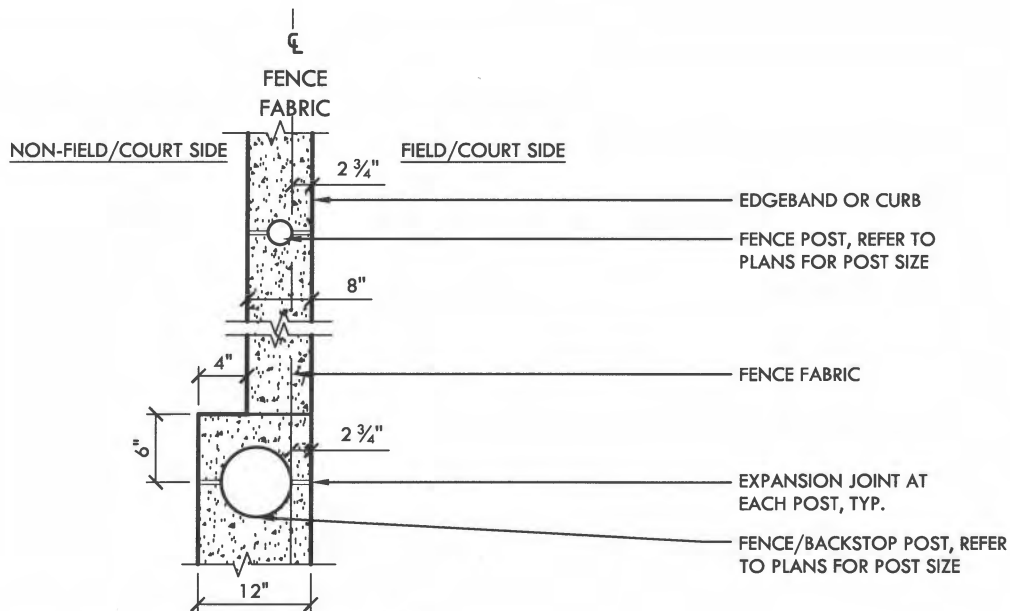
## NOTES:

- SEE FENCE AND GATE FOOTING DETAIL PK-29.
- ALL CHAIN LINK FENCE FABRIC TO BE VINYL-COATED BLACK
- \*POSTS LISTED FOR GATES SHOULD BE END POST SIZES MINIMUM, TYP.

4. PRESUMPTIVE SOIL LOAD-BEARING DESIGN CRITERIA BASED ON THE 2019 CALIFORNIA BUILDING CODE FOR GENERAL SOILS WITHOUT A DETAILED SOILS REPORT.



**ELEVATION AT STEPPED FENCE**



**FENCE ALIGNMENT - PLAN VIEW**

**FENCE ALIGNMENT AND  
STEPPED CONDITION**



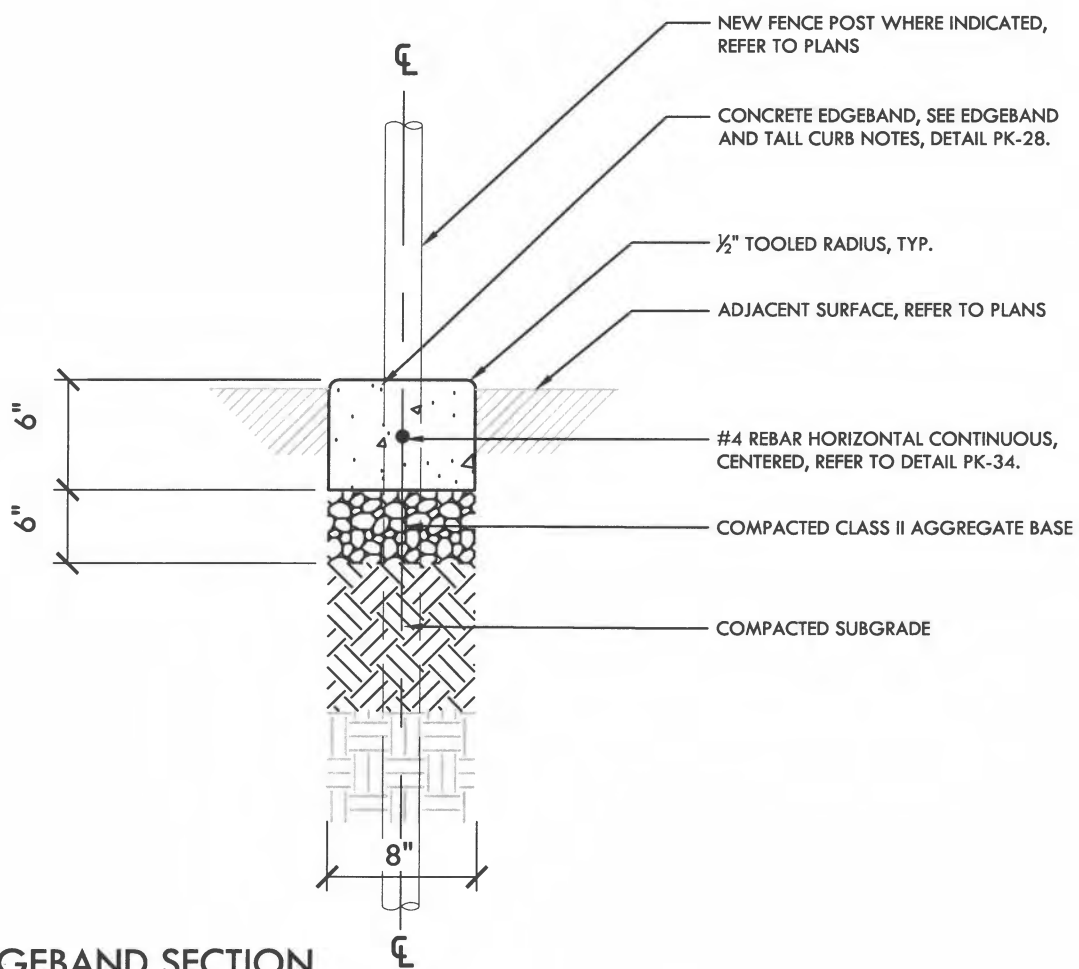
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DWG.

APPROVED BY:

**PK-31**



## EDGE BAND SECTION

**NOTE:**  
REFER TO EDGE BAND AND TALL CURB NOTES, DETAIL PK-28.

**8" CONCRETE  
EDGE BAND WITH FENCE**



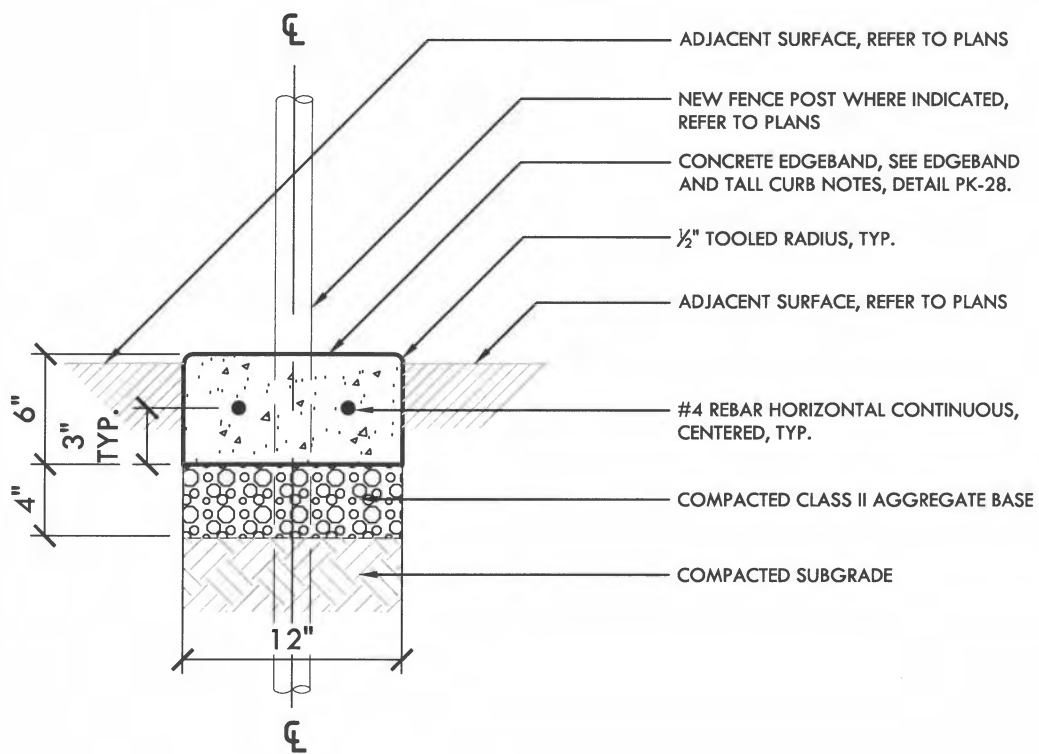
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**PK-32**



## EDGE BAND SECTION

**NOTE:**  
REFER TO EDGE BAND AND TALL CURB NOTES, DETAIL PK-28.

**12" CONCRETE  
EDGE BAND WITH FENCE**



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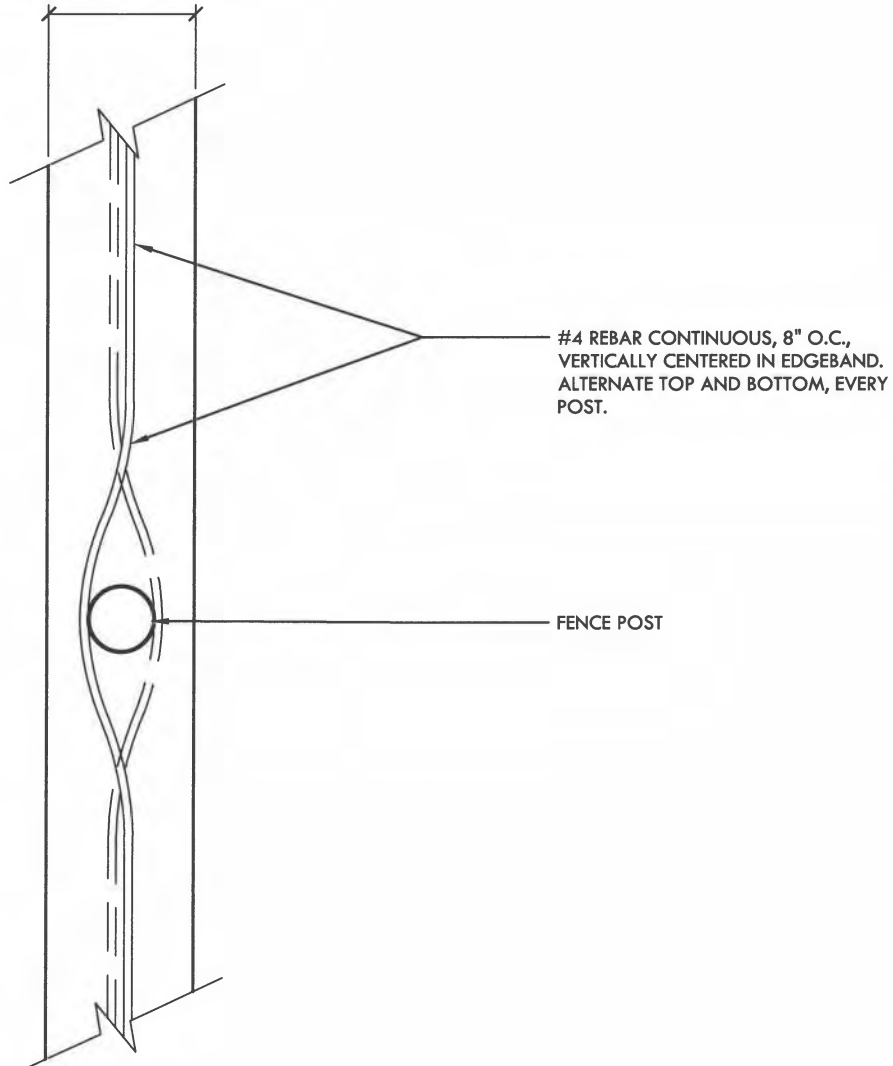
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**PK-33**

8" OR 12" EDGE BAND,  
SEE DETAILS PK-32 OR PK-33



#4 REBAR CONTINUOUS, 8" O.C.,  
VERTICALLY CENTERED IN EDGE BAND.  
ALTERNATE TOP AND BOTTOM, EVERY  
POST.

FENCE POST

## EDGE BAND PLAN

NOTE:  
REFER TO EDGE BAND AND TALL CURB NOTES, DETAIL PK-28.

**REBAR AT EDGE BAND**



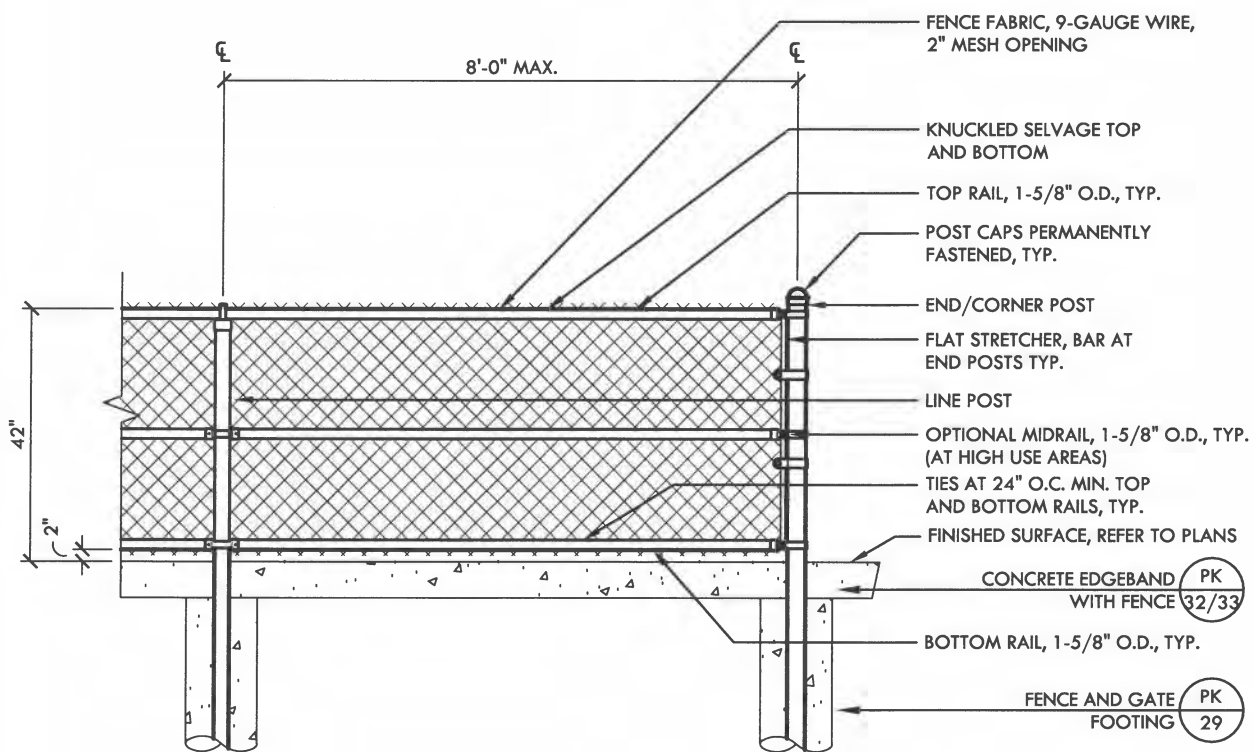
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APPROVED BY:

**PK-34**



## FENCE SECTION

NOTE:  
SEE GENERAL FENCE & GATE NOTES DETAIL PK-27.

**42" TALL CHAIN LINK FENCE**



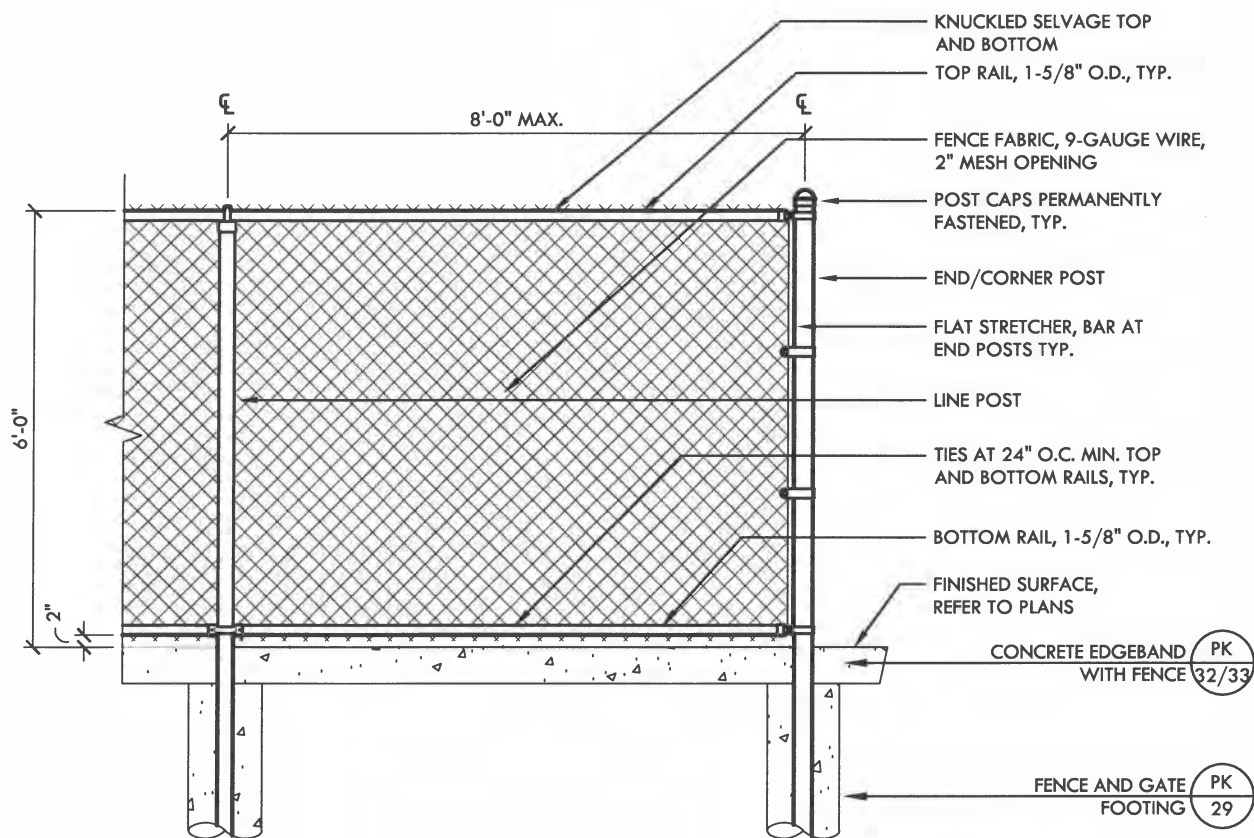
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DATE: OCTOBER 1, 2019

APPROVED BY: *[Signature]*

DWG.

**PK-35**



## FENCE SECTION

### NOTE:

SEE GENERAL FENCE & GATE NOTES DETAIL PK-27.

**6' TALL CHAIN LINK FENCE**



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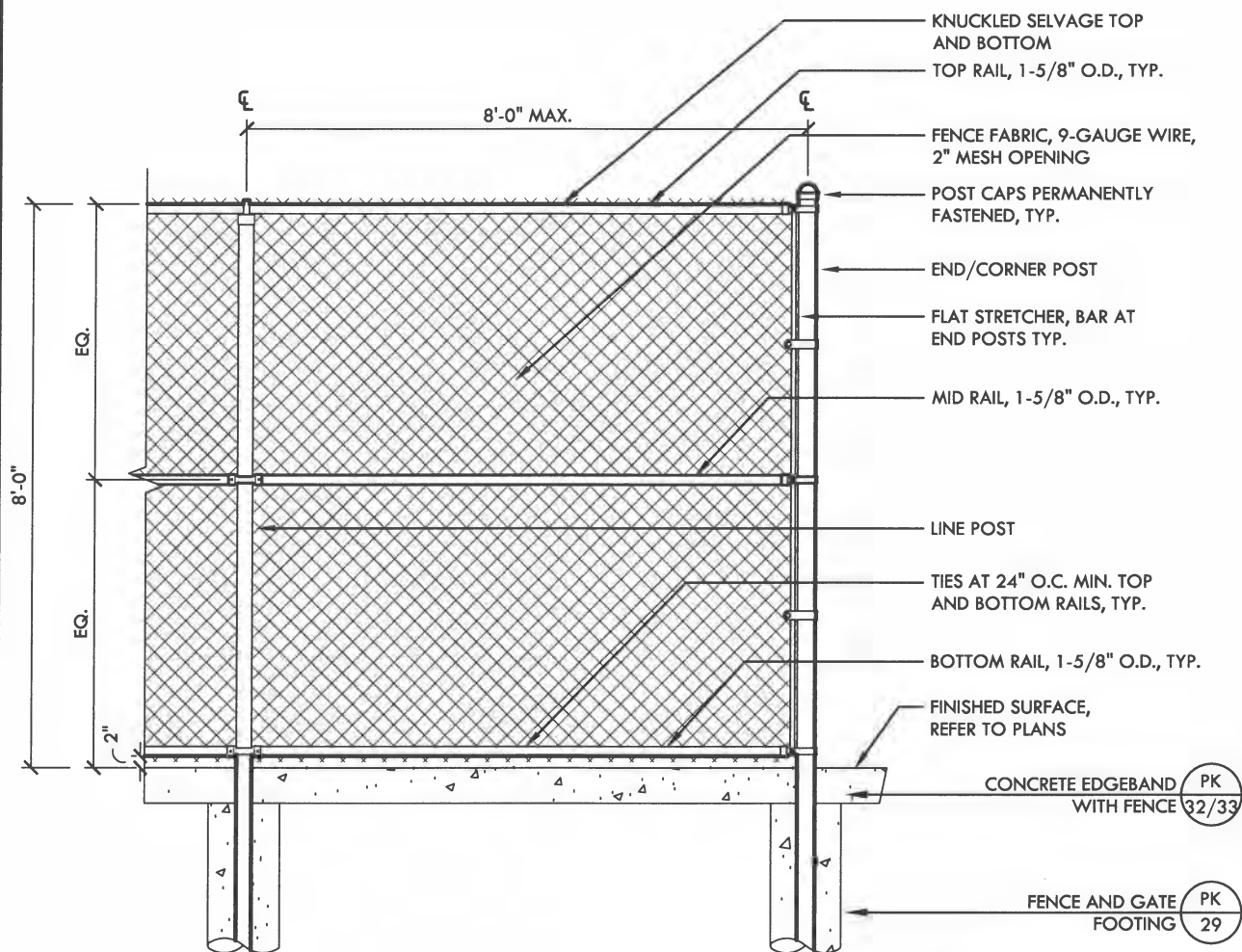
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APPROVED BY:

DWG.

**PK-36**



## FENCE SECTION

**NOTE:**  
SEE GENERAL FENCE & GATE NOTES DETAIL PK-27.

**8' TALL CHAIN LINK FENCE**



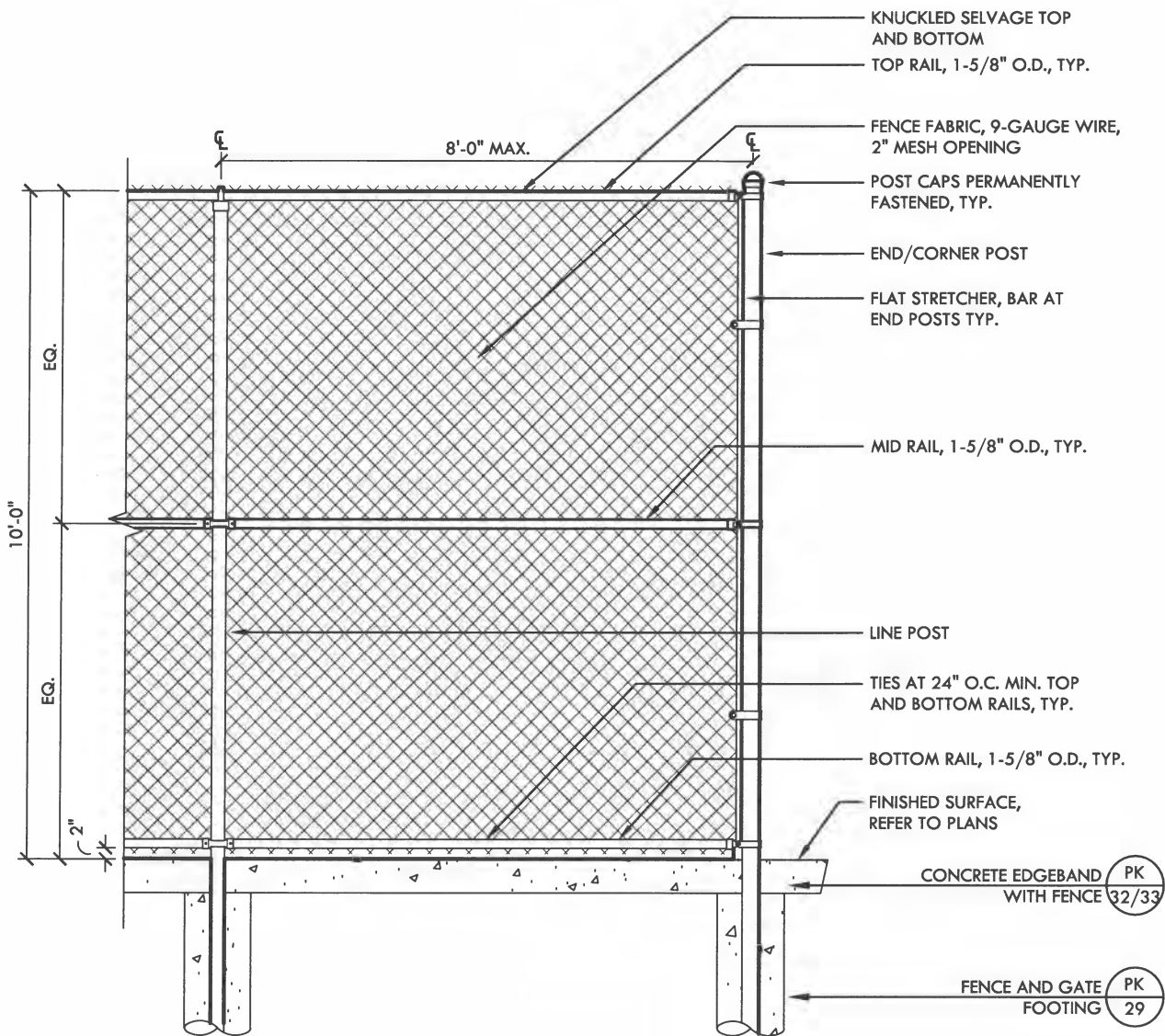
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DWG.

**PK-37**



## FENCE SECTION

### NOTE:

SEE GENERAL FENCE & GATE NOTES DETAIL PK-27.

## 10' CHAIN LINK FENCE



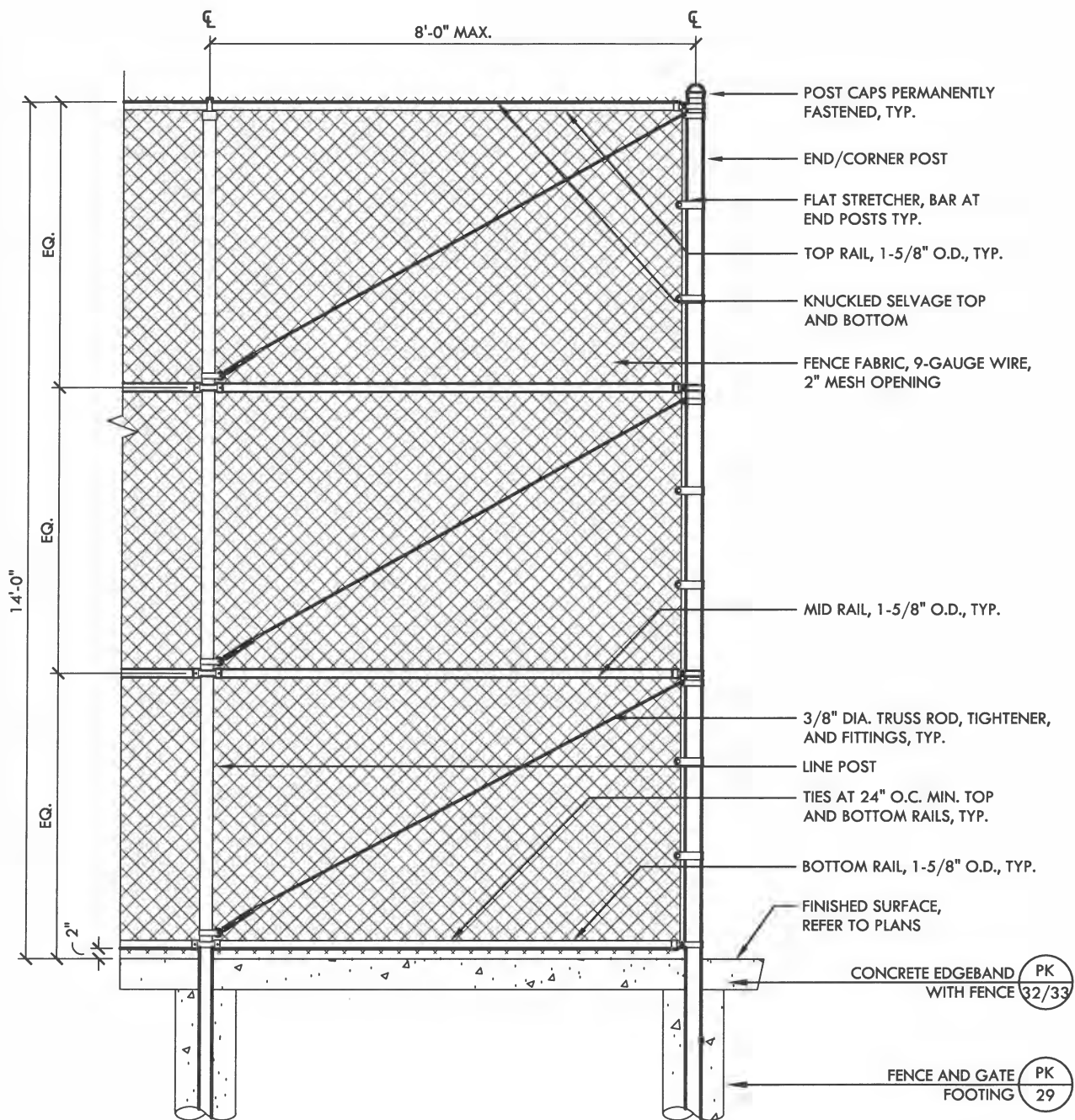
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DATE: OCTOBER 1, 2019

*See*  
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DWG.

PK-38



## FENCE SECTION

### NOTE:

SEE GENERAL FENCE & GATE NOTES DETAIL PK-27.

**14' TALL CHAIN LINK FENCE**



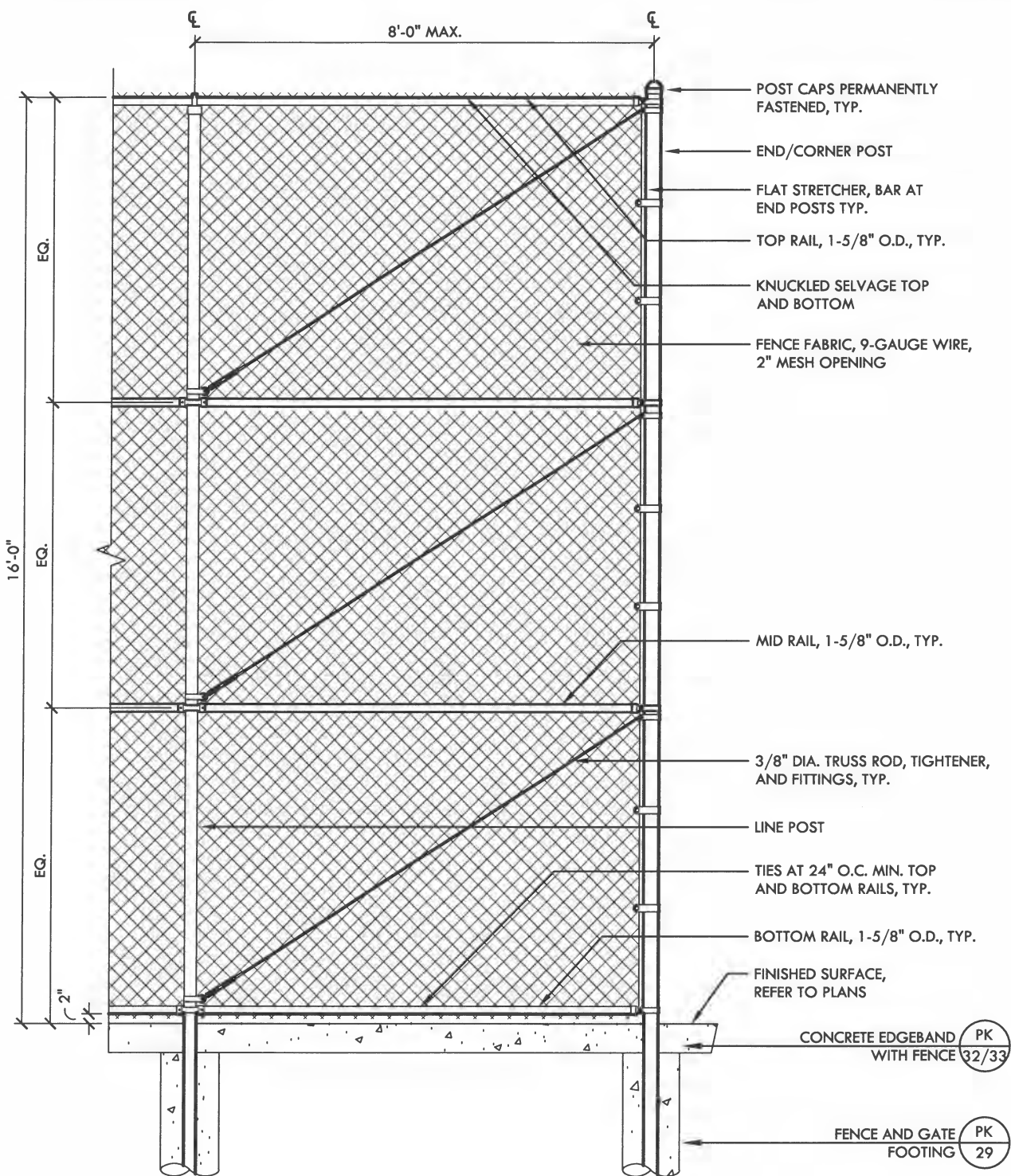
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**PK-39**



## FENCE SECTION

NOTE:  
SEE GENERAL FENCE & GATE NOTES DETAIL PK-27.

**16' TALL CHAIN LINK FENCE**



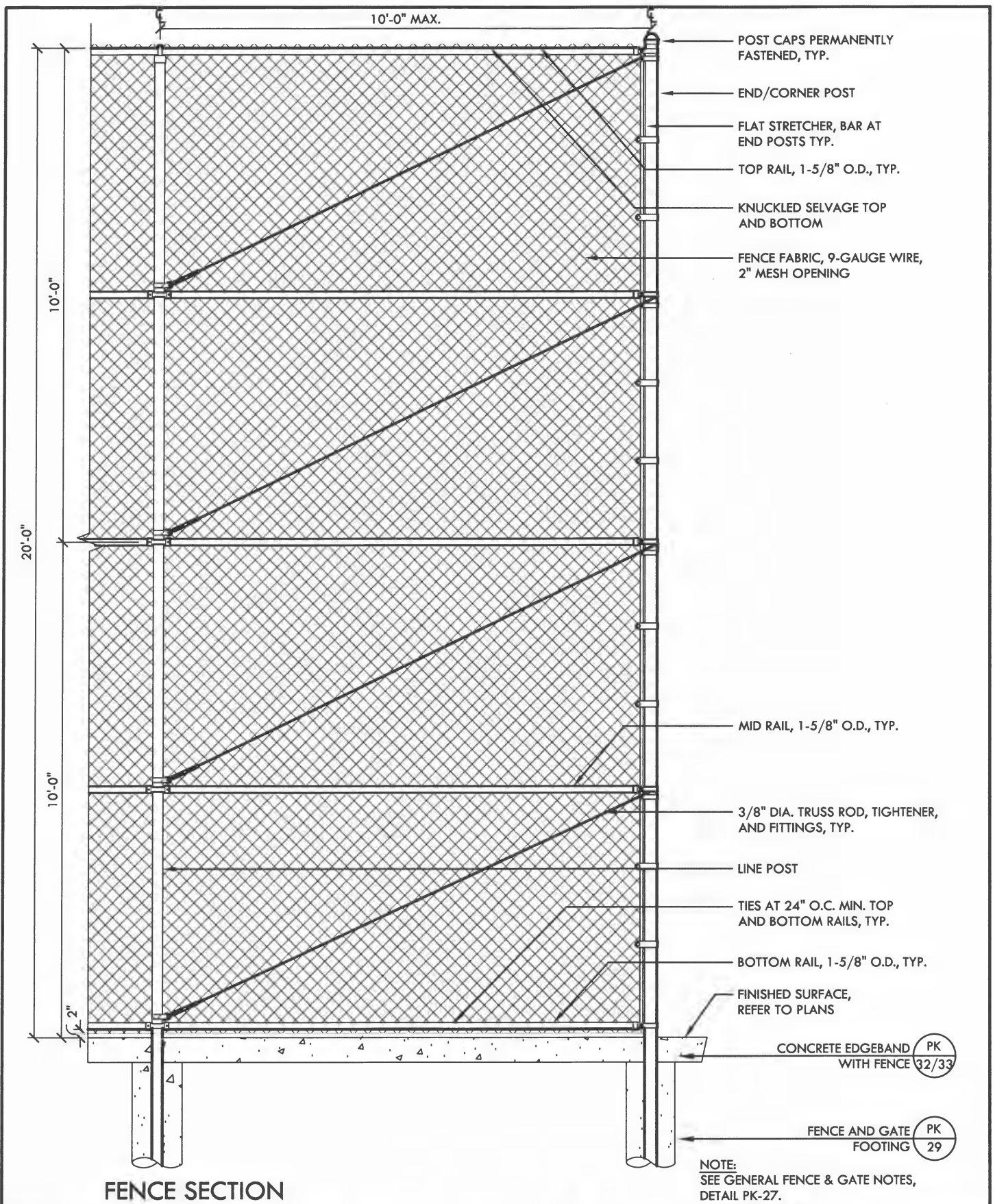
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DATE: OCTOBER 1, 2019

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DWG.

**PK-40**



## 20' TALL CHAIN LINK FENCE



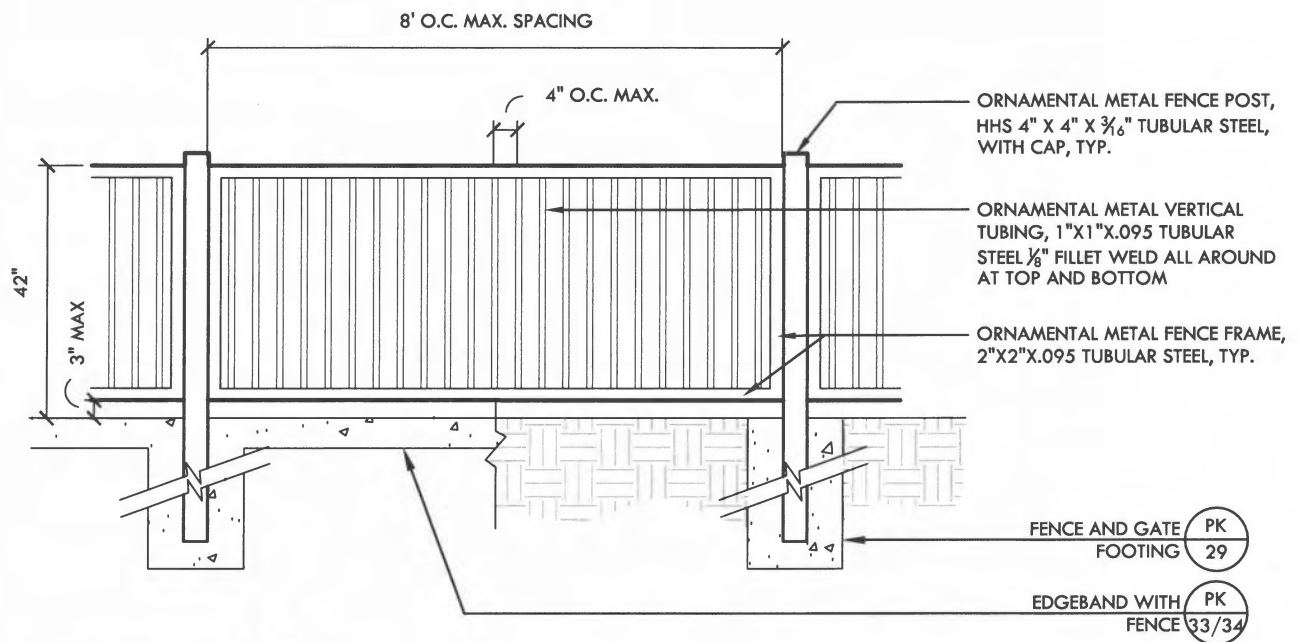
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APPROVED BY:

**PK-41**



## FENCE SECTION

### NOTES:

1. ALL FENCE POSTS, HARDWARE, AND GATES TO BE POWDER COATED **BLACK**, UNLESS OTHERWISE NOTED.
2. FENCE POSTS, HARDWARE, AND GATES TO RECEIVE ANTI-GRAFFITI COATING.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ACCEPTANCE BY CITY'S REPRESENTATIVE PRIOR TO FABRICATION.
4. ALL PICKETS ARE WELDED AND GROUND SMOOTH WITH A BUTT JOINT AT THE TOP/BOTTOM RAIL.

**42" ORNAMENTAL FENCE**



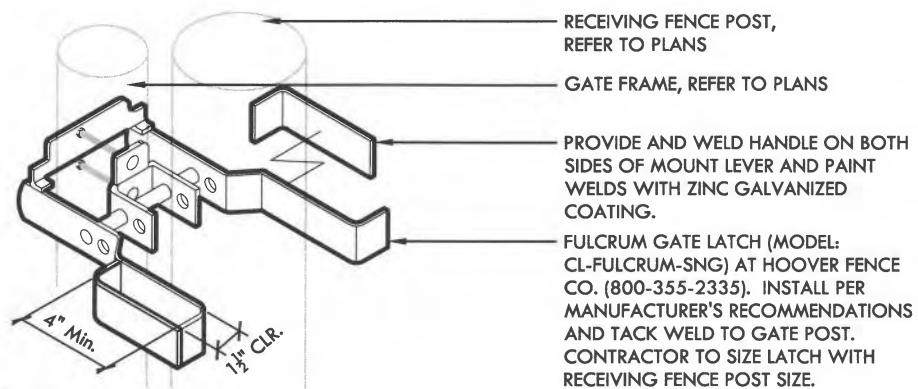
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DATE: SEPTEMBER 22, 2021

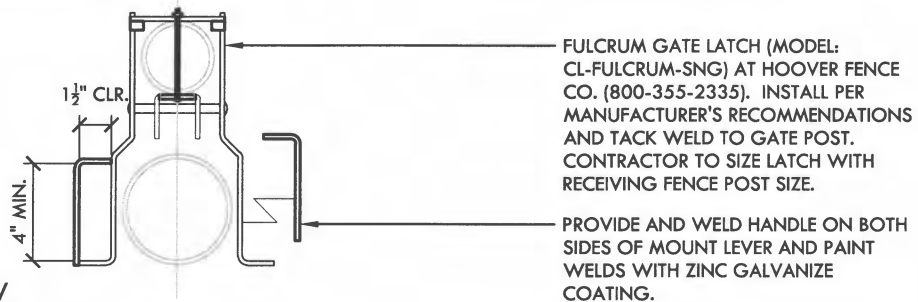
APPROVED BY:

DWG.

**PK-42**



ISOMETRIC VIEW



PLAN VIEW

**NOTE:**

FENCE POSTS, GATES, HARDWARE, AND RELATED APPURTENANCES TO BE THERMALLY FUSED AND BONDED PVC COATED ("VINYL COATED"), COLOR SHALL BE BLACK.

**GATE PADLOCK AND LATCH**



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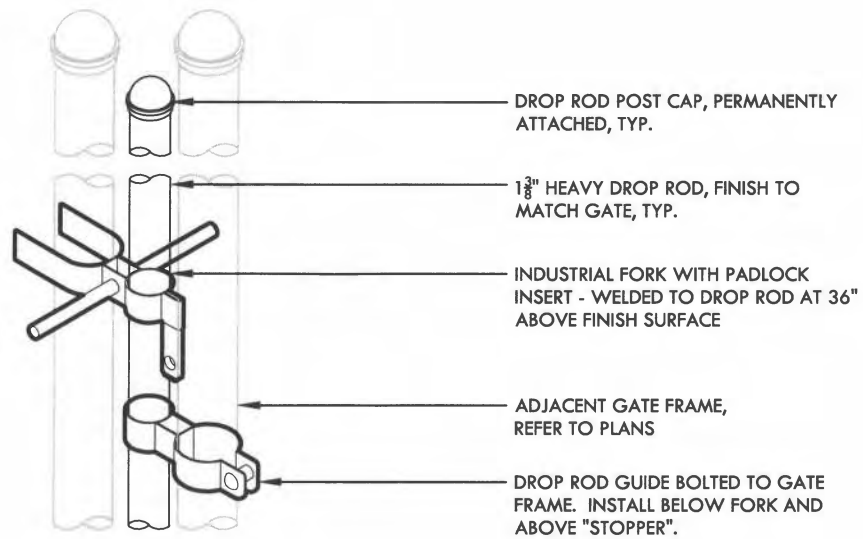
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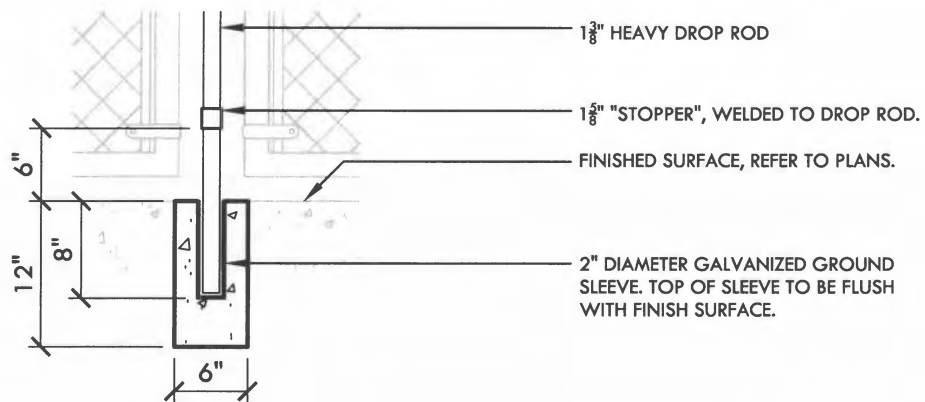
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**PK-43**



DROP ROD - ISOMETRIC



FOOTING - SECTION

**NOTE:**

FENCE POSTS, GATES, HARDWARE, AND RELATED APPURTENANCES TO BE THERMALLY FUSED AND BONDED PVC COATED ("VINYL COATED"), COLOR SHALL BE BLACK.

**GATE DROP ROD**



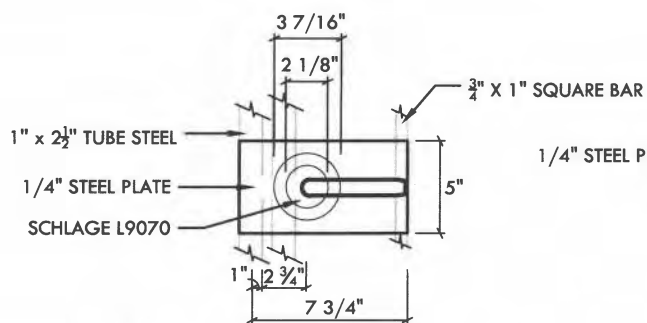
Sunnyvale

DATE: NOVEMBER 29, 2021

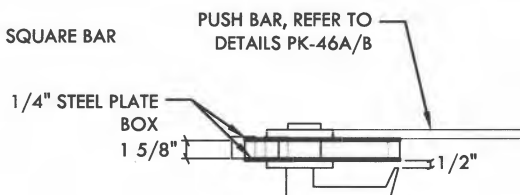
DWG.

APPROVED BY:

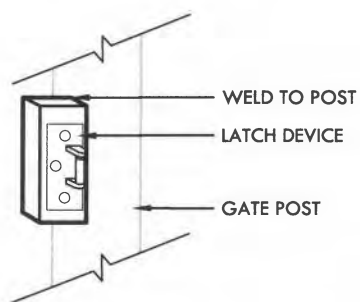
**PK-44**



**ENLARGED FRONT VIEW**



**ENLARGED PLAN VIEW**



**LATCH ENLARGEMENT**

**NOTE:**

1. DOOR HARDWARE TO BE SUBMITTED TO CITY FOR APPROVAL.

**ACCESSIBLE GATE LEVER  
WITH PANIC BAR**



Sunnyvale

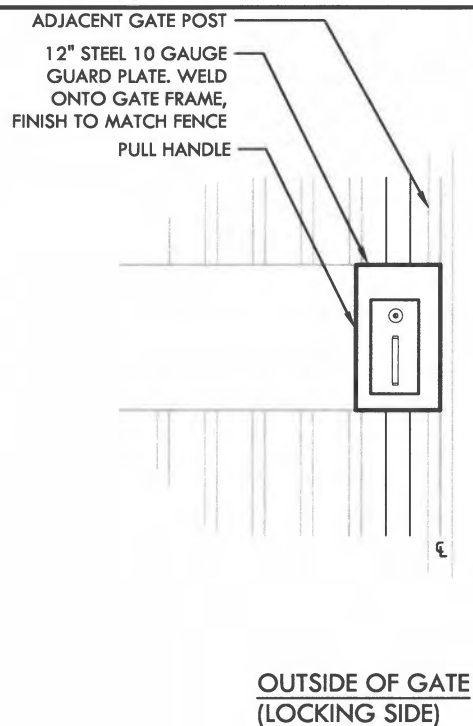
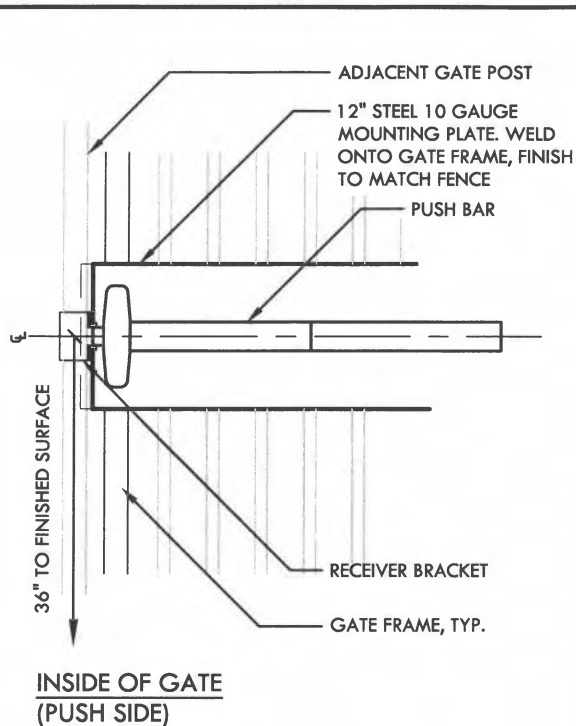
*[Signature]*

APPROVED BY:

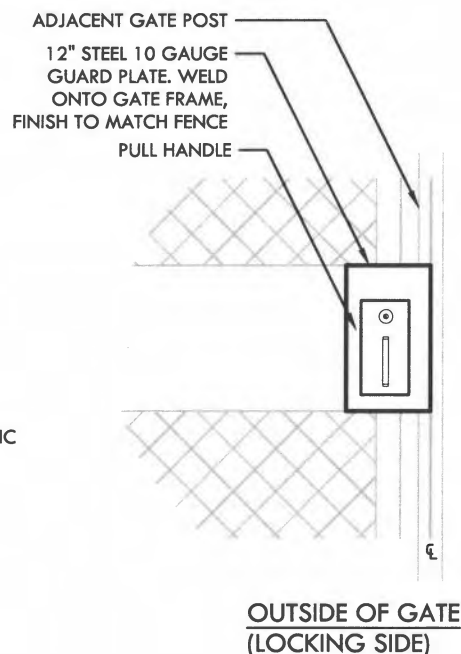
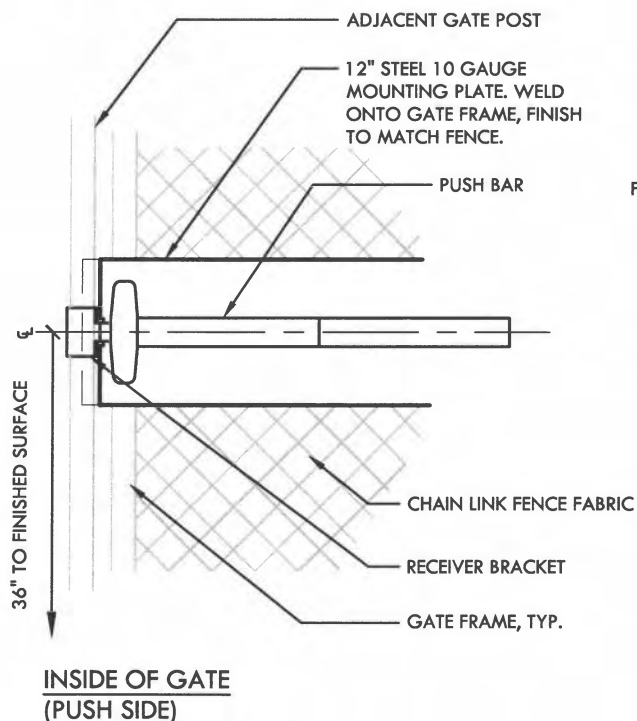
DATE: SEPTEMBER 22, 2021

DWG.

**PK-45**



## ORNAMENTAL FENCE



## CHAIN LINK FENCE

### NOTE:

1. PUSH BAR, PULL HANDLE, AND RECEIVER BRACKET TO BE VON DUPRIN 99NL RIM EXIT DEVICE AND NIGHT LATCH TRIM.
2. DOOR HARDWARE TO BE SUBMITTED TO CITY FOR APPROVAL.

**ACCESSIBLE PANIC BAR AND LEVER  
(NON-SECURE)**



Sunnyvale

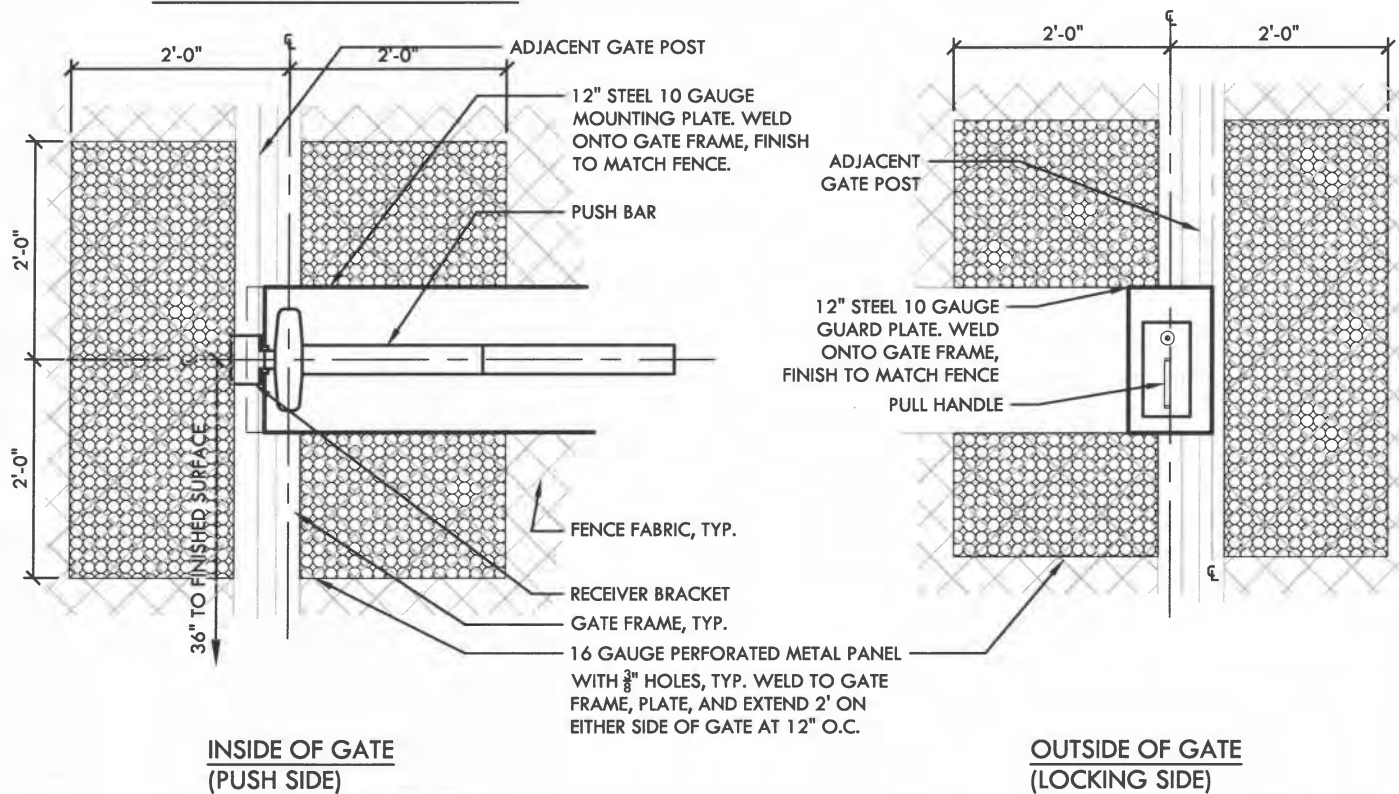
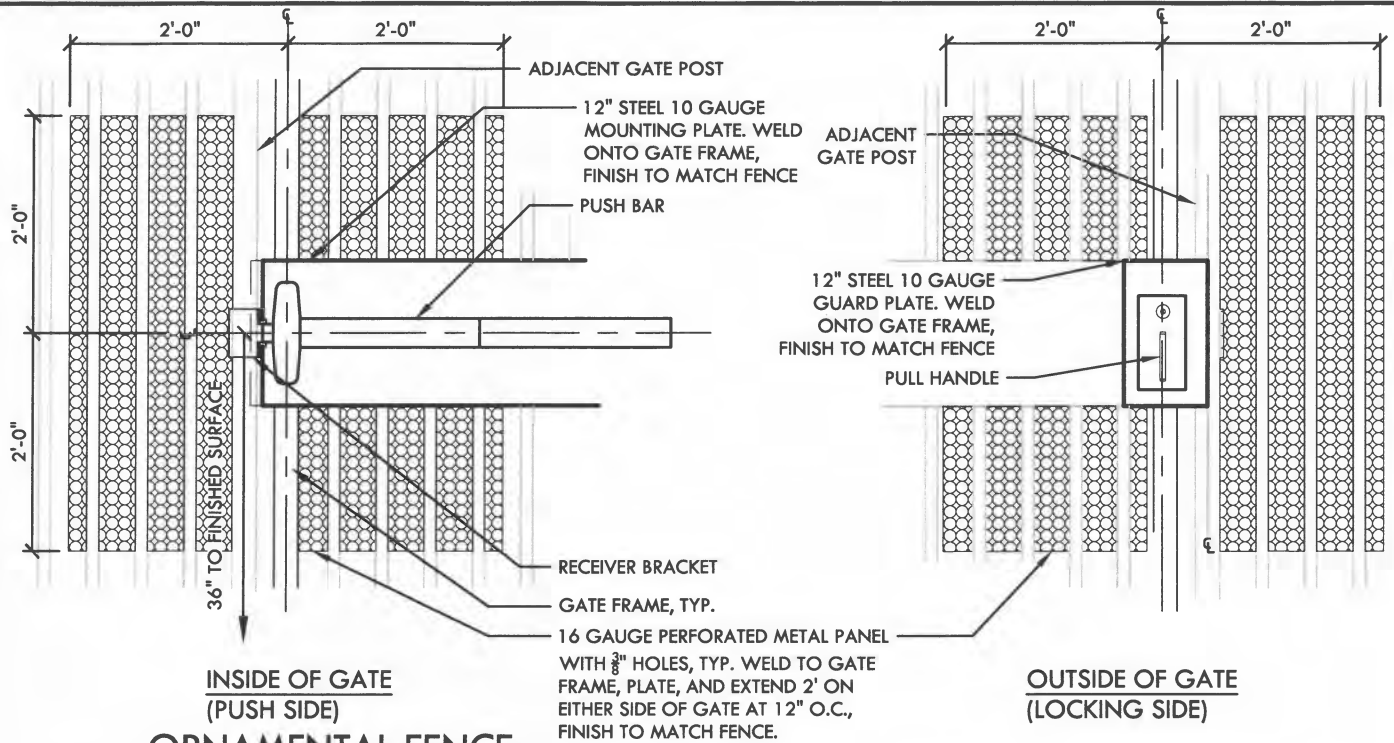
DATE: OCTOBER 1, 2019

*Ill*

APPROVED BY:

DWG.

**PK-46A**



**NOTE:**

1. PUSH BAR, PULL HANDLE, AND RECEIVER BRACKET TO BE VON DUPRIN 99NL RIM EXIT DEVICE AND NIGHT LATCH TRIM.
2. DOOR HARDWARE TO BE SUBMITTED TO CITY FOR APPROVAL.

**ACCESSIBLE PANIC BAR AND LEVER  
(SECURE)**

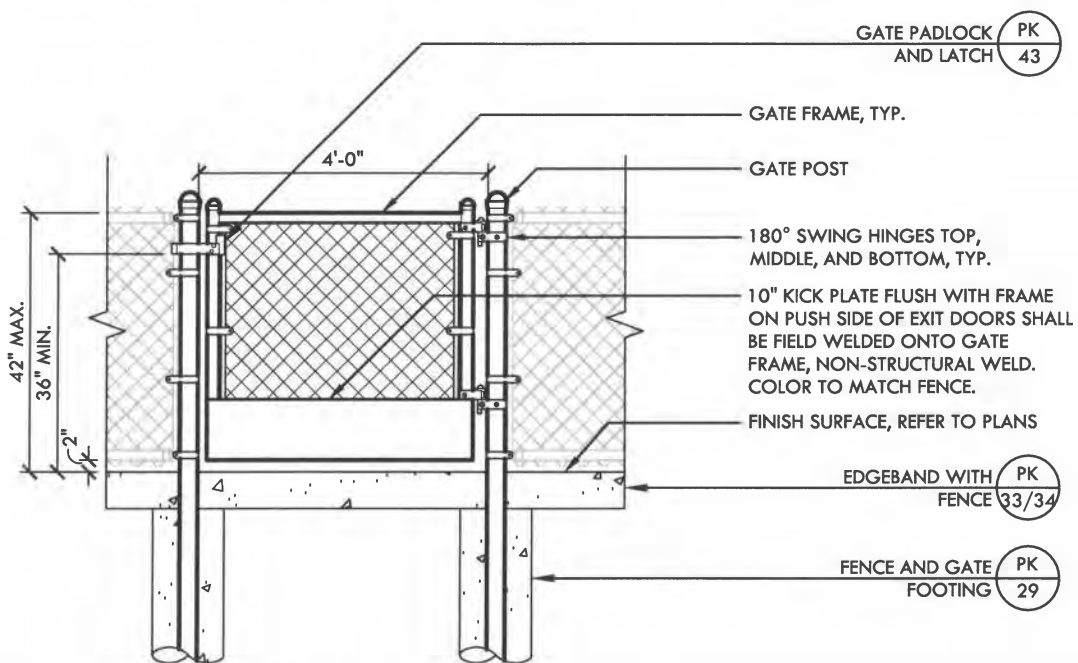


DATE: SEPTEMBER 22, 2021

DWG.

APPROVED BY:

**PK-46B**



## GATE SECTION

**NOTE:**  
SEE GENERAL FENCE & GATE NOTES DETAIL PK-27.

**4' WIDE X 42" TALL SWING GATE**



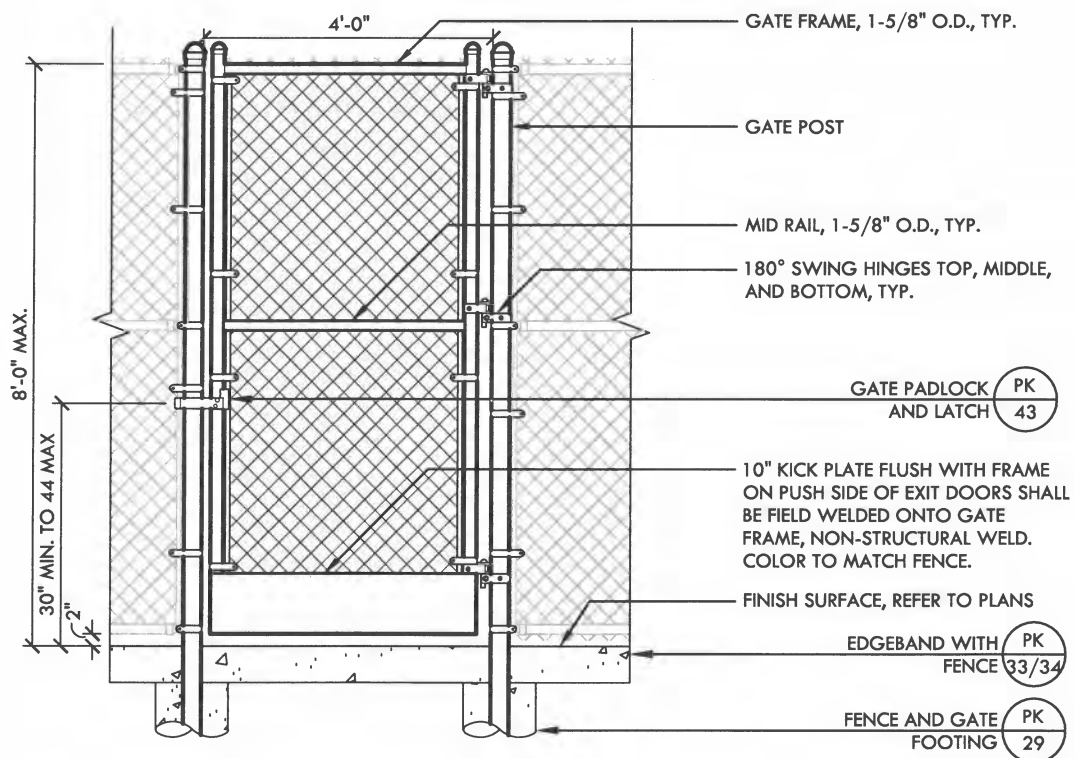
Sunnyvale

DATE: SEPTEMBER 22, 2021

DWG.

APPROVED BY:

**PK-47**



## GATE SECTION

NOTE:  
SEE GENERAL FENCE & GATE NOTES DETAIL PK-27.

**4' WIDE X 8' TALL SWING GATE**



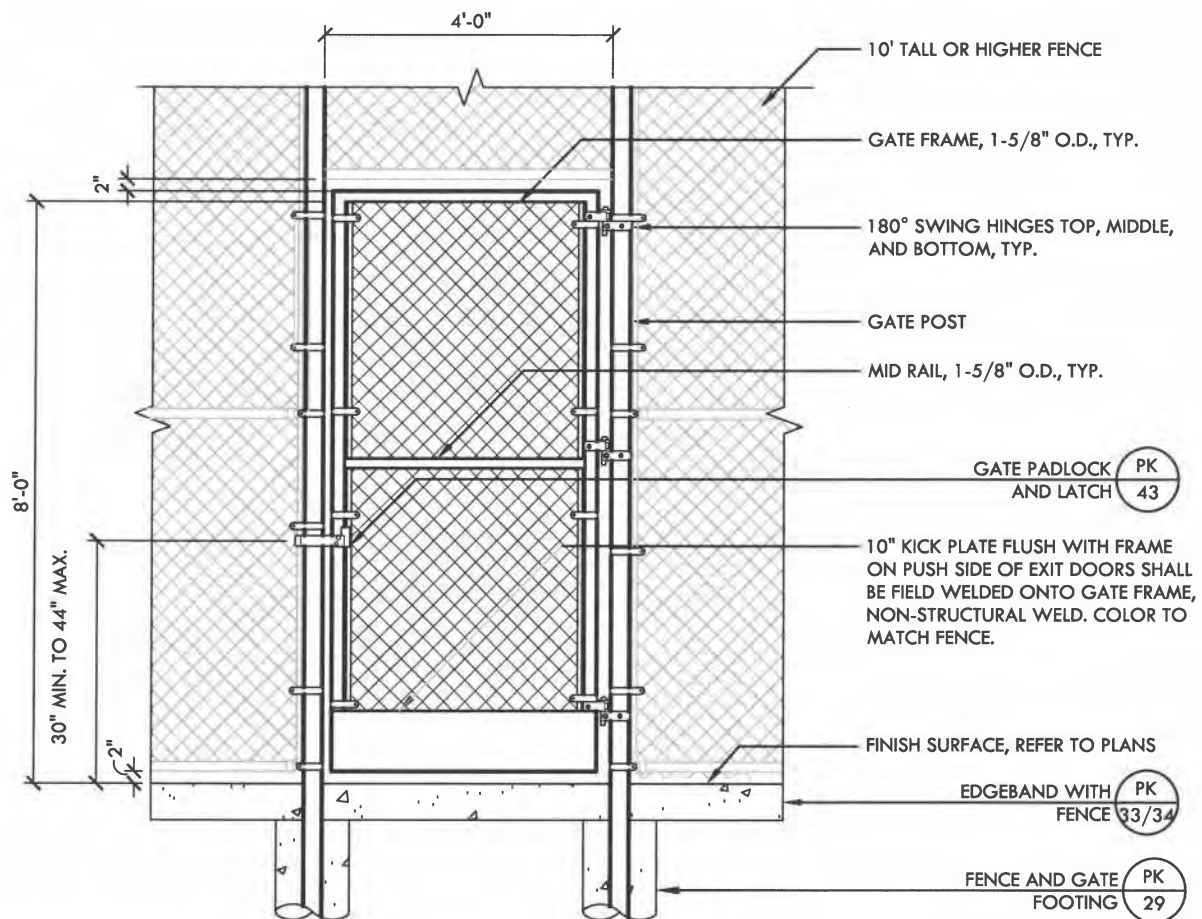
Sunnyvale

DATE: SEPTEMBER 22, 2021

DWG.

APPROVED BY:

**PK-48**



## GATE SECTION

### NOTE:

SEE GENERAL FENCE & GATE NOTES DETAIL PK-27.

**4' WIDE X 8' TALL SWING GATE  
IN TALL FENCE**



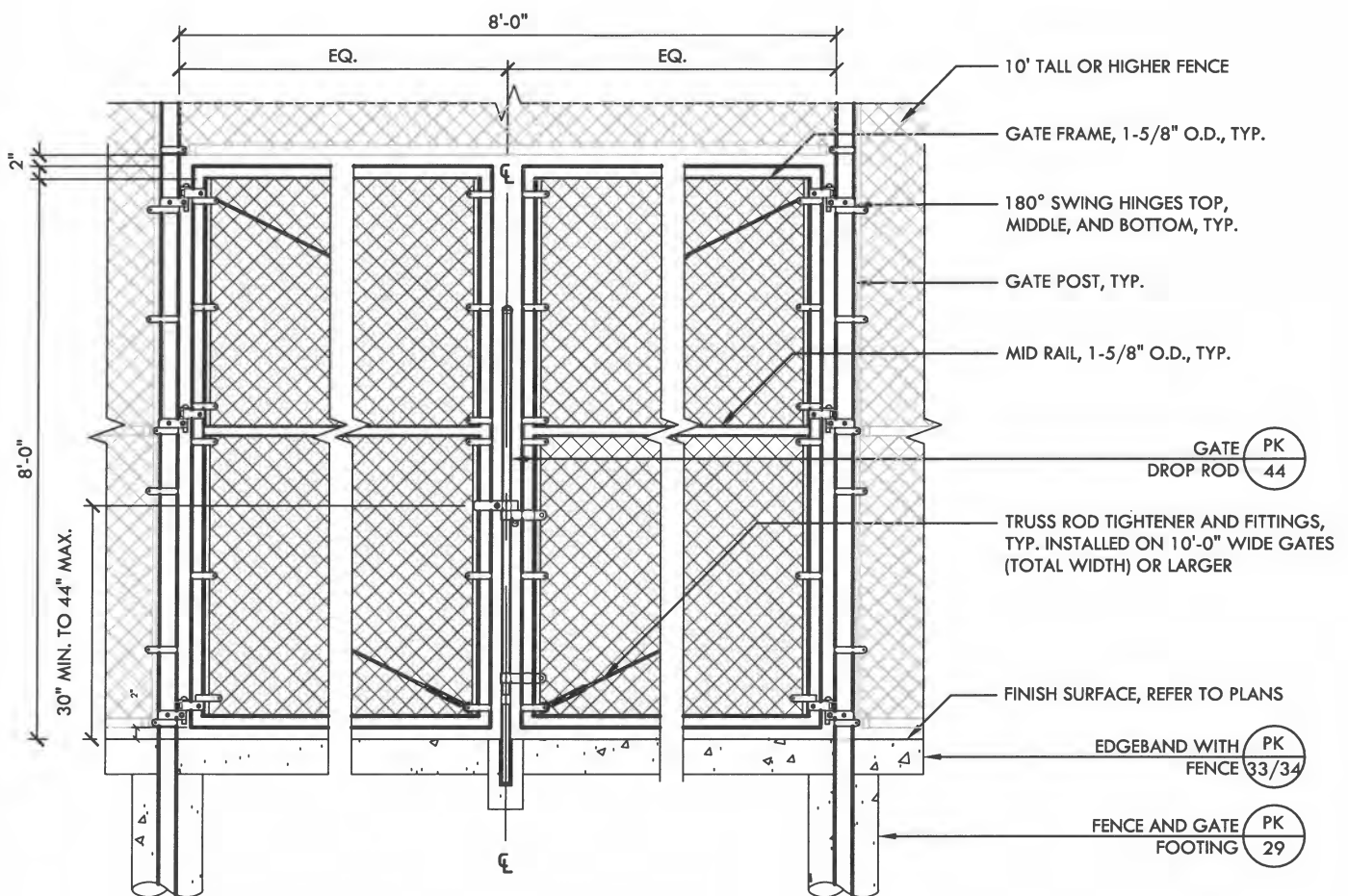
Sunnyvale

DATE: SEPTEMBER 22, 2021

APPROVED BY: *[Signature]*

DWG.

**PK-49**



## GATE SECTION

**NOTE:**  
SEE GENERAL FENCE & GATE NOTES DETAIL PK-27.

**8' WIDE X 8' TALL DOUBLE  
SWING GATE IN TALL FENCE**



Sunnyvale

**DATE: OCTOBER 1, 2019**

*Signature*

APPROVED BY:

DWG.

**PK-50**

NON-FIELD SIDE

GATE FRAMING  
WITHOUT FABRIC  
(WIDTH = X/2)

GATE FRAMING WITH FABRIC  
(WIDTH = X)

FIELD SIDE

FENCE FABRIC

## PLAN VIEW

1 5/8" O.D. GALVANIZED PIPE  
TRACK, TOP AND BOTTOM

MID RAIL, 1-5/8" O.D., TYP.

TRACK WHEEL

VERTICAL MID RAIL

3/8" DIAMETER, TRUSS ROD,  
TIGHTENER, AND FITTINGS

20'-0"

10'-0"

℄

℄

GATE PADLOCK  
AND LATCH  
PK 43

DOUBLE WHEEL CARRIER

GATE POST

EDGE BAND WITH  
FENCE  
PK 33/34

FENCE AND GATE  
FOOTING  
PK 29

3'-6"

## GATE SECTION

### NOTES:

1. SEE GENERAL FENCE & GATE NOTES, DETAIL PK-27.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ACCEPTANCE BY OWNER'S REPRESENTATIVE PRIOR TO FABRICATION.
3. PROVIDE LOCKING DEVICE TO SECURE GATE IN OPEN POSITION.

**20' WIDE X 42" TALL SLIDING GATE**



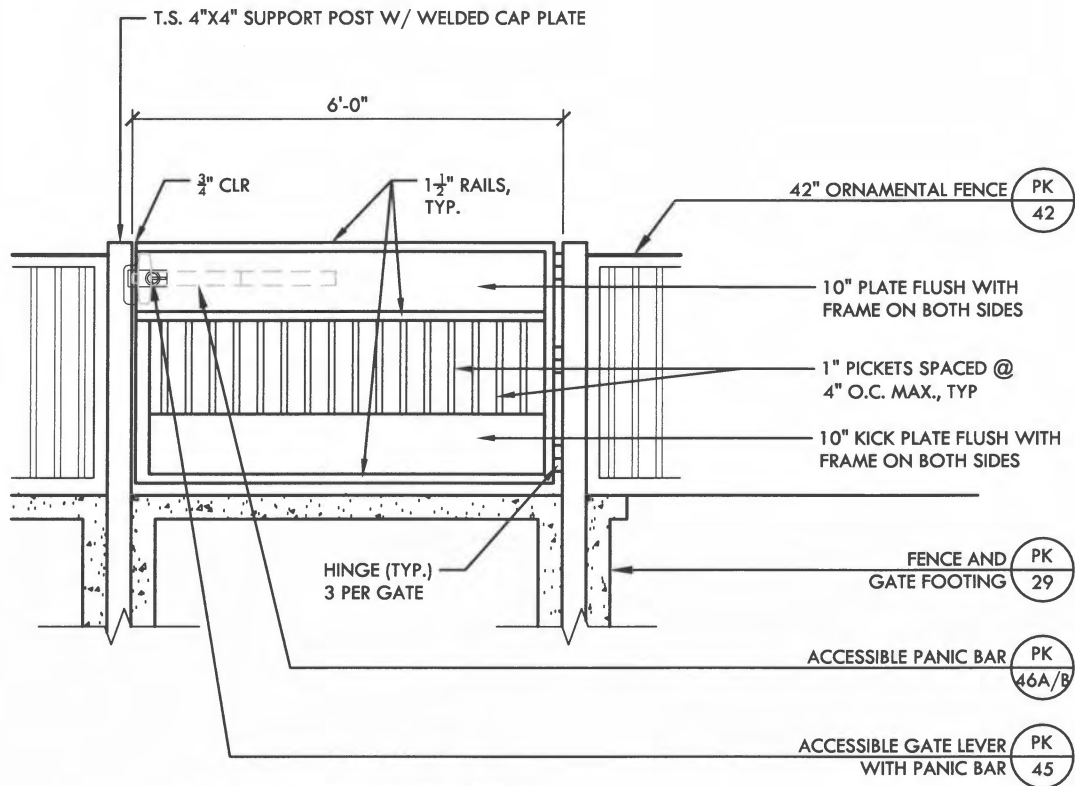
Sunnyvale

DATE: OCTOBER 1, 2019

DWG.

APPROVED BY:

**PK-51**



**FRONT ELEVATION**

**NOTES:**

1. ALL FENCE POSTS, HARDWARE, AND GATES TO BE POWDER COATED BLACK, UNLESS OTHERWISE NOTED.
2. FENCE POSTS, HARDWARE, AND GATES TO RECEIVE ANTI-GRAFFITI COATING.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ACCEPTANCE BY CITY'S REPRESENTATIVE PRIOR TO FABRICATION.
4. ALL PICKETS ARE WELDED AND GROUND SMOOTH WITH A BUTT JOINT AT THE TOP/BOTTOM RAIL.

**6' WIDE X 42" TALL ORNAMENTAL GATE**



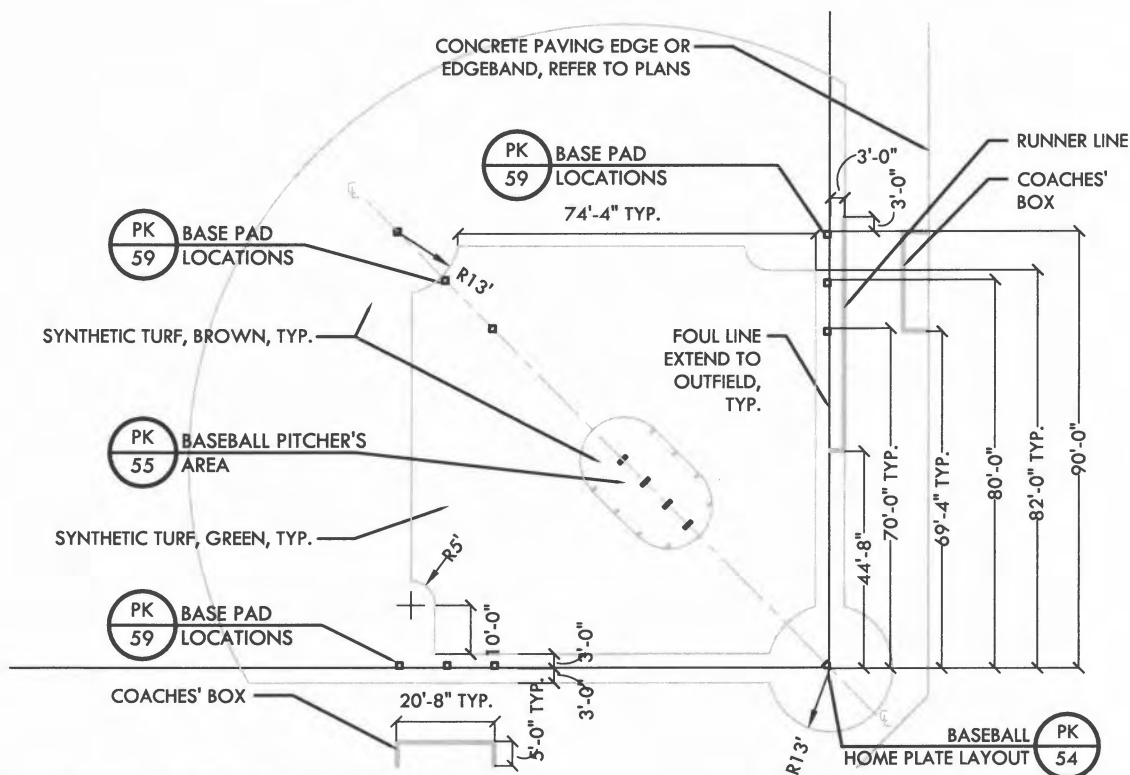
Sunnyvale

**DATE: SEPTEMBER 22, 2021**

DWG.

APPROVED BY:

**PK-52**



## BASEBALL FIELD STRIPING PLAN

### NOTES:

1. BASEBALL STRIPING SHALL BE INLAID OR TUFTED 4" WIDE WHITE LINES.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE.

**BASEBALL FIELD STRIPING**



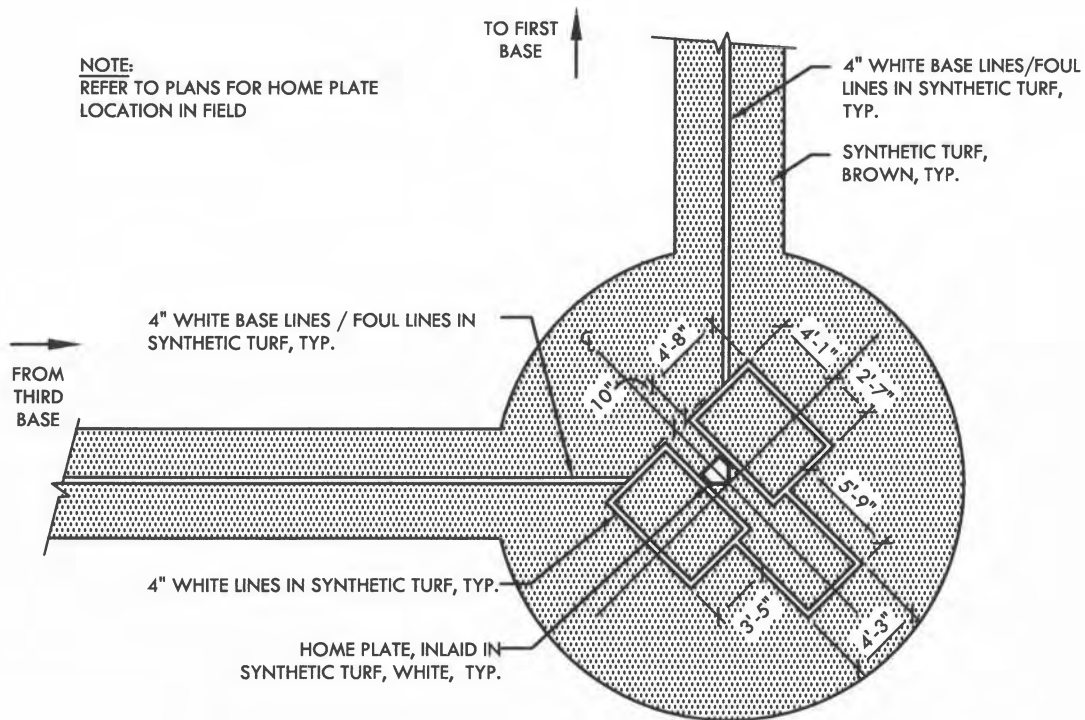
Sunnyvale

DATE: SEPTEMBER 22, 2021

DWG.

APPROVED BY:

**PK-53**



## BAEBALL HOME PLATE PLAN

### BASEBALL HOME PLATE LAYOUT



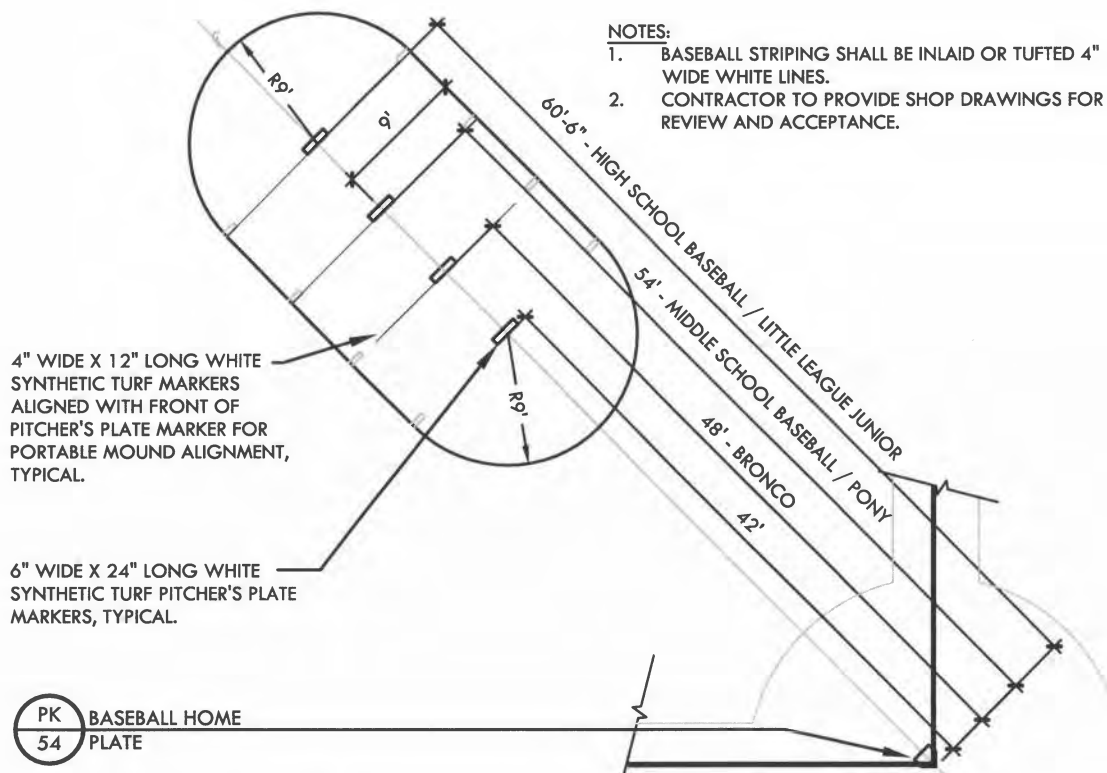
Sunnyvale

DATE: OCTOBER 1, 2019

APPROVED BY:

DWG.

PK-54



**BASEBALL PITCHER'S AREA PLAN**

**BASEBALL PITCHER'S AREA**



Sunnyvale

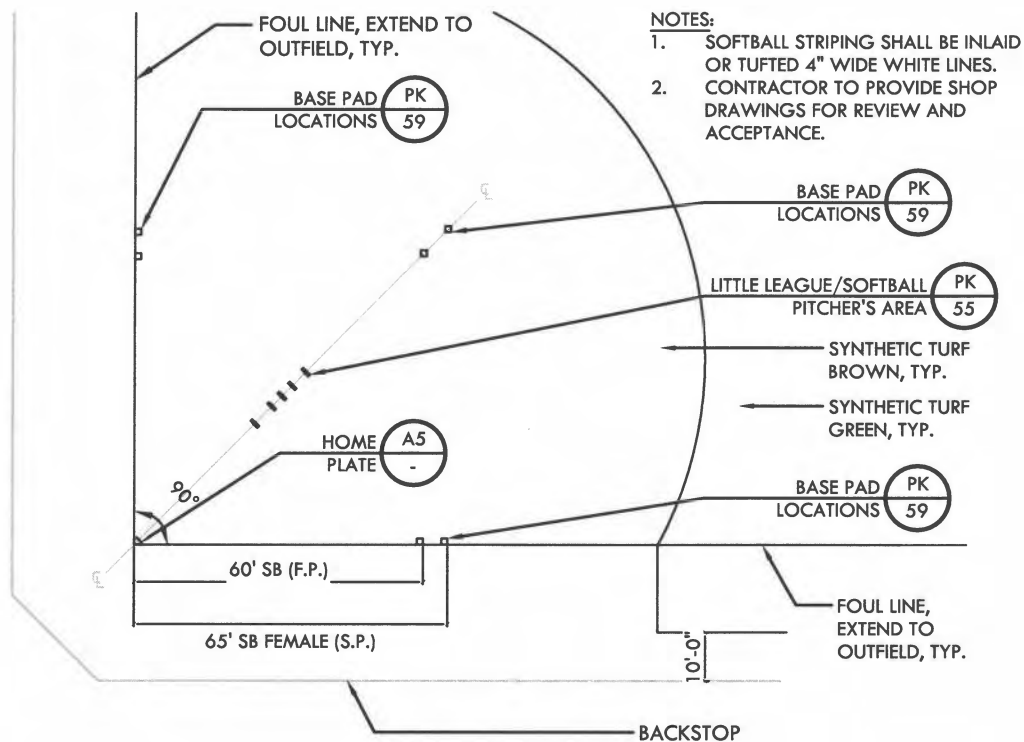
**DATE: NOVEMBER 29, 2021**

*[Signature]*

APPROVED BY:

DWG.

**PK-55**



# LITTLE LEAGUE / SOFTBALL FIELD STRIPING PLAN

**LITTLE LEAGUE/ SOFTBALL  
FIELD STRIPING**



Sunnyvale

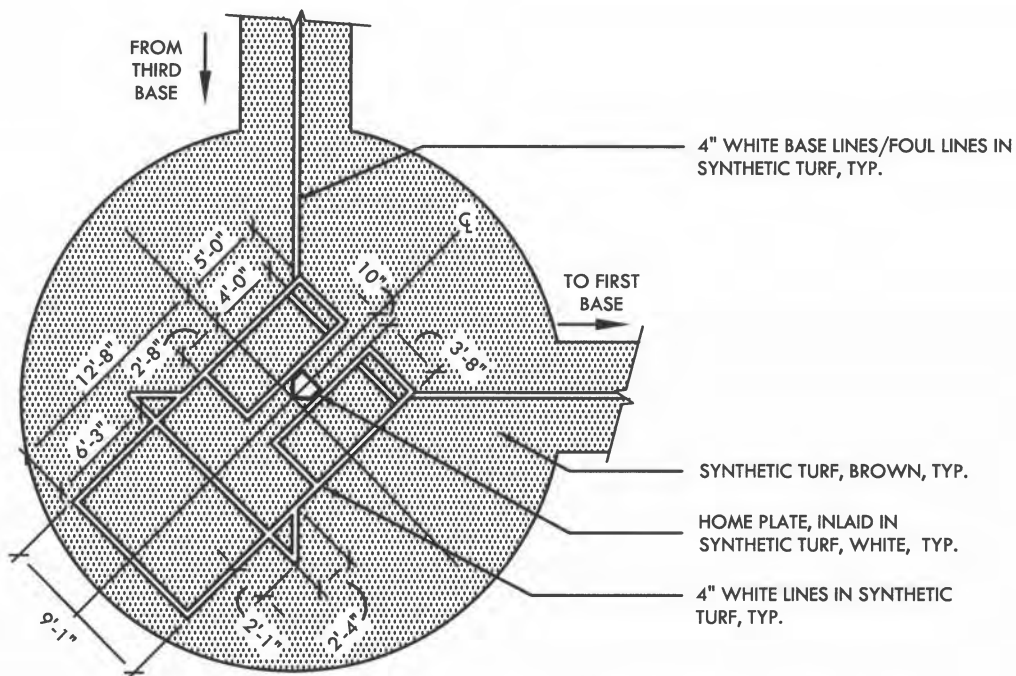
**DATE: OCTOBER 1, 2019**

*[Signature]*

APPROVED BY:

DWG.

**PK-56**



NOTE: REFER TO PLANS FOR HOME PLATE LOCATION IN FIELD

## LITTLE LEAGUE / SOFTBALL HOME PLATE PLAN

**LITTLE LEAGUE/ SOFTBALL  
HOME PLATE**



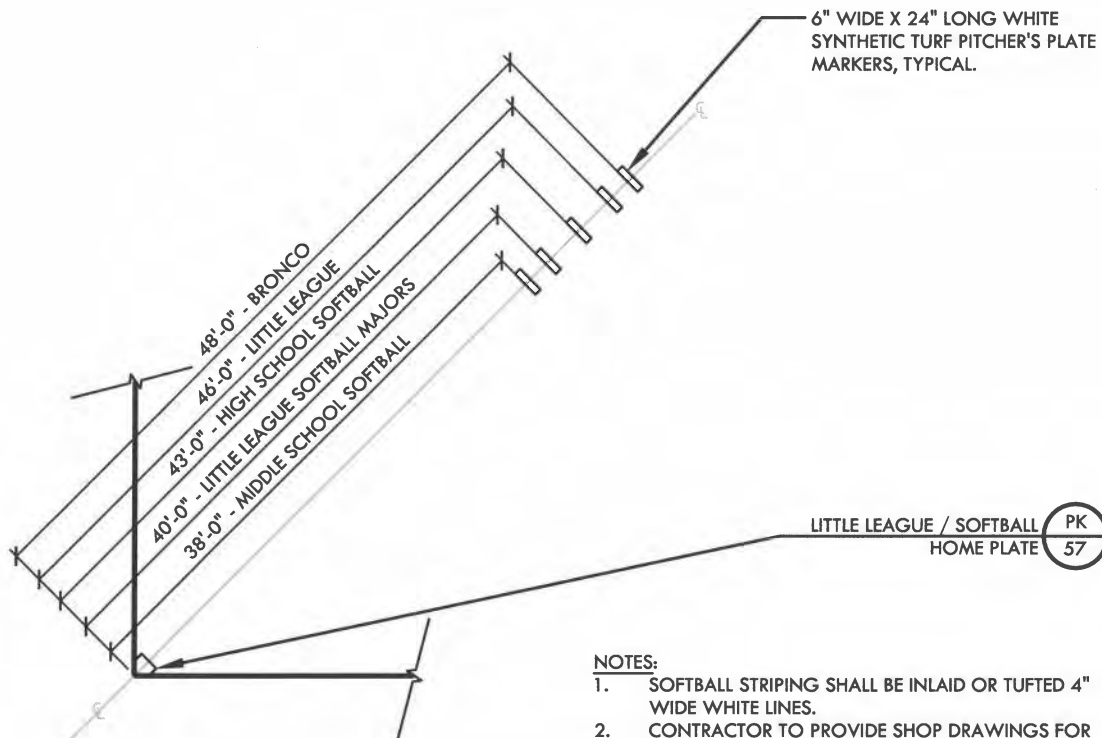
Sunnyvale

DATE: OCTOBER 1, 2019

APPROVED BY:

DWG.

**PK-57**



NOTES:

1. SOFTBALL STRIPING SHALL BE INLAID OR TUFTED 4" WIDE WHITE LINES.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE.

LITTLE LEAGUE / SOFTBALL PITCHER'S AREA PLAN

**LITTLE LEAGUE/ SOFTBALL  
PITCHER'S AREA**



Sunnyvale

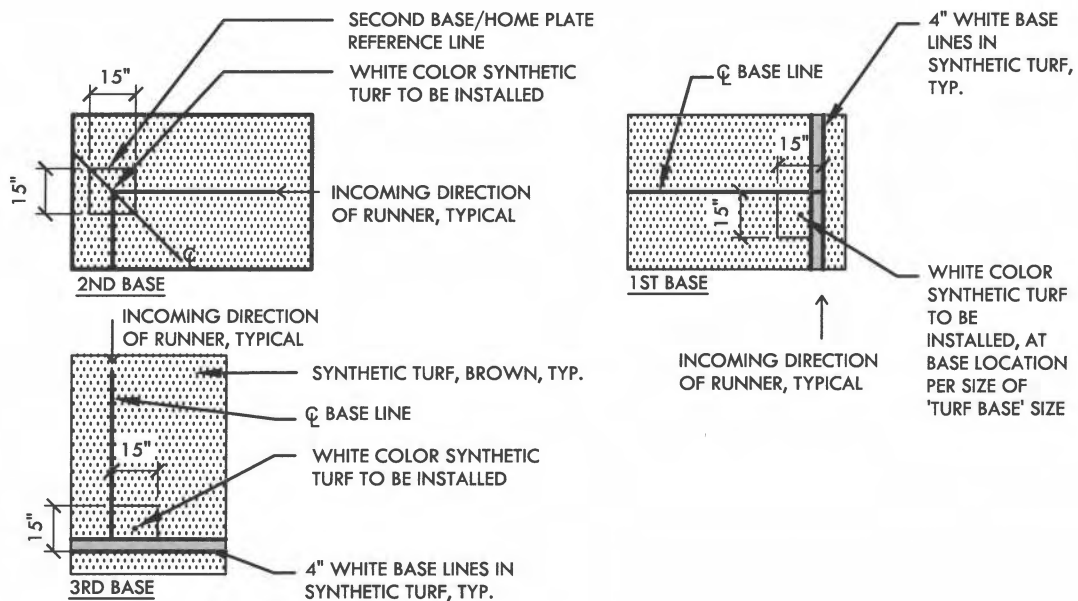
DATE: OCTOBER 1, 2019

*Julie*

APPROVED BY:

DWG.

**PK-58**



**NOTES:**

1. PLATE TURF COLOR LOCATION CENTERED ON BASE, 6" FROM INTERSECTION OF BASE LINE FOR 1ST AND 3RD BASES.
2. PLATE TURF COLOR LOCATION ON INTERSECTION OF BASE LINE FOR 2ND BASE.
3. DETAIL PROVIDED FOR LOCATION ONLY.

**BASEBALL AND SOFTBALL BASE PAD LOCATIONS PLAN**

**BASE PAD LOCATIONS**



Sunnyvale

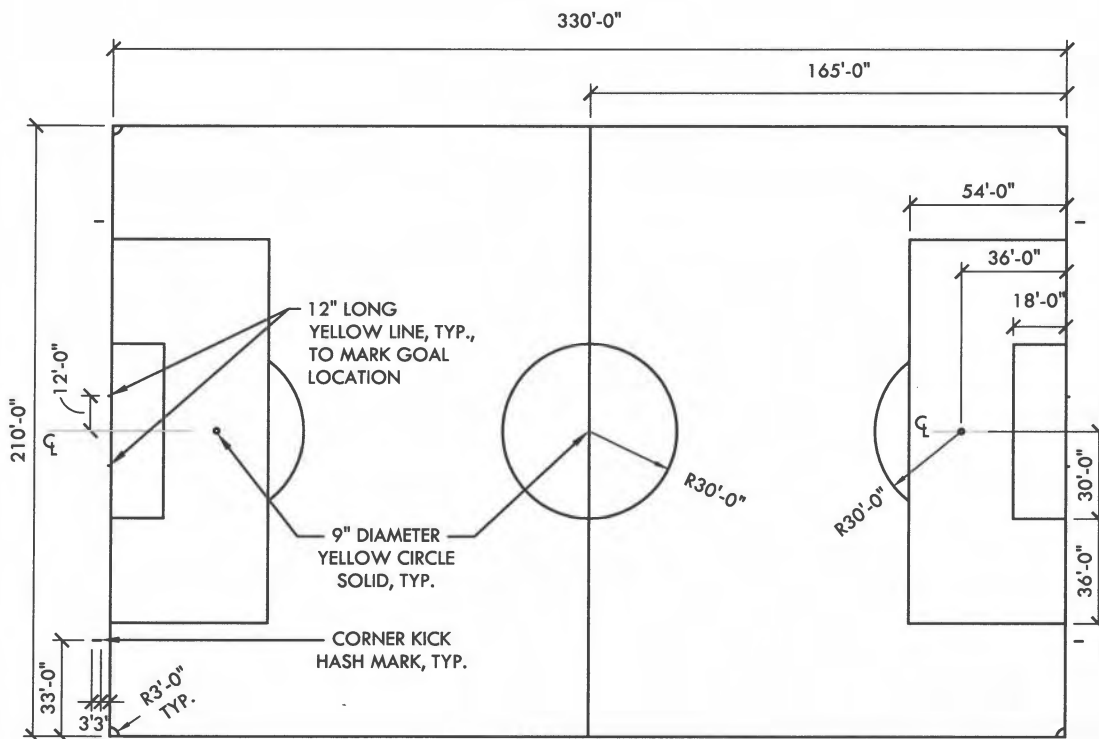
**DATE: OCTOBER 1, 2019**

*[Signature]*

APPROVED BY:

DWG.

**PK-59**



**NOTES:**

1. SOCCER FIELD STRIPING SHALL BE INLAID OR TUFTED 4" WIDE YELLOW LINES.
2. BASEBALL/SOFTBALL STRIPING SHALL TAKE PRECEDENCE OVER SOCCER FIELD STRIPING. SOCCER FIELD STRIPING SHALL TAKE PRECEDENCE OVER CRICKET STRIPING.
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE. ALL FIELD MARKINGS SHALL CONFORM TO CURRENT NFHS AND C.I.F (CALIFORNIA, INTERSCHOLASTIC FEDERATION) GUIDELINES.

**PLAN**

**SOCCER FIELD STRIPING  
(70 X 110 YARDS)**



Sunnyvale

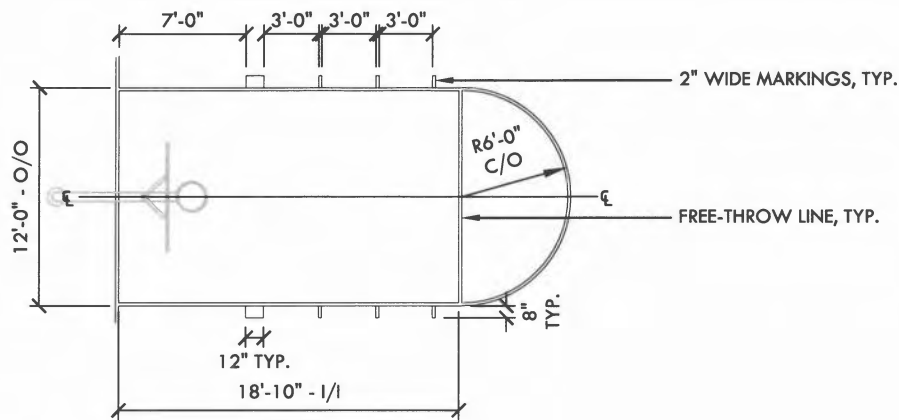
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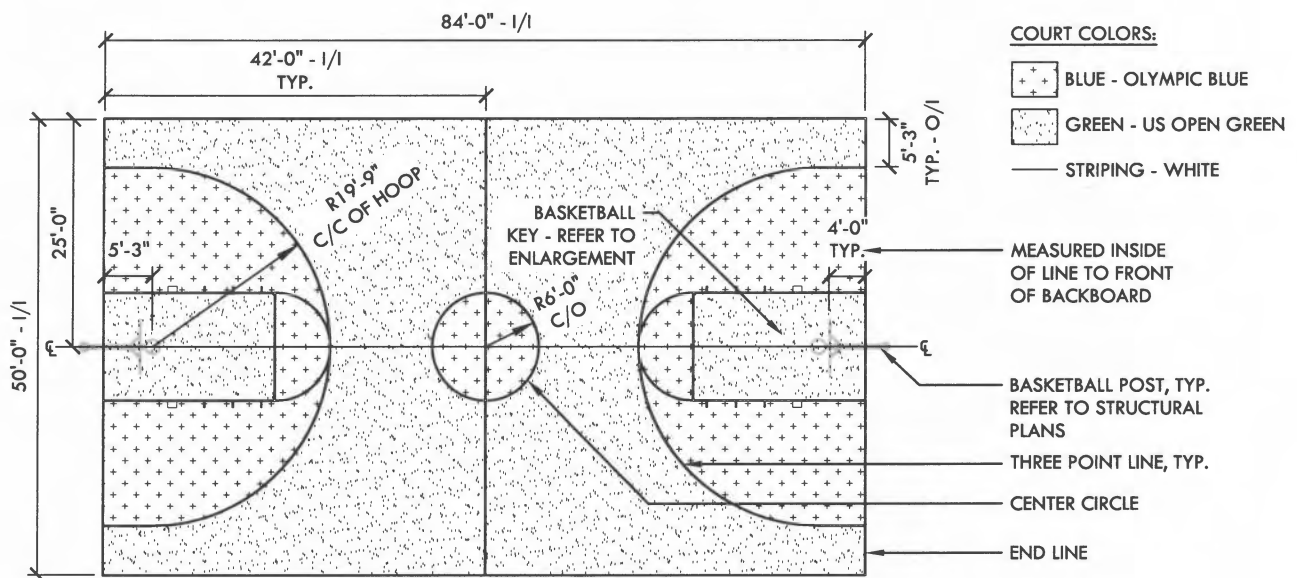
APPROVED BY:

DWG.

**PK-60**



## KEY ENLARGEMENT



### NOTES:

1. O/O = OUTSIDE OF LINE TO OUTSIDE OF LINE
2. O/I = OUTSIDE OF LINE TO INSIDE OF LINE
3. O/C = OUTSIDE LINE TO CENTER OF LINE
4. LINES TO BE 2" WIDE WHITE TRAFFIC PAINT STRIPING, INCLUDING REFLECTIVE GLASS BEADS, TWO COATS MINIMUM.
5. BASKETBALL POST, BACKBOARD AND NET PRODUCT INFORMATION TO BE PROVIDED BY CITY.
6. ALL MARKINGS SHALL CONFORM TO CURRENT NFHS AND C.I.F (CALIFORNIA. INTERSCHOLASTIC FEDERATION) GUIDELINES.

## PLAN

### BASKETBALL COURT STRIPING



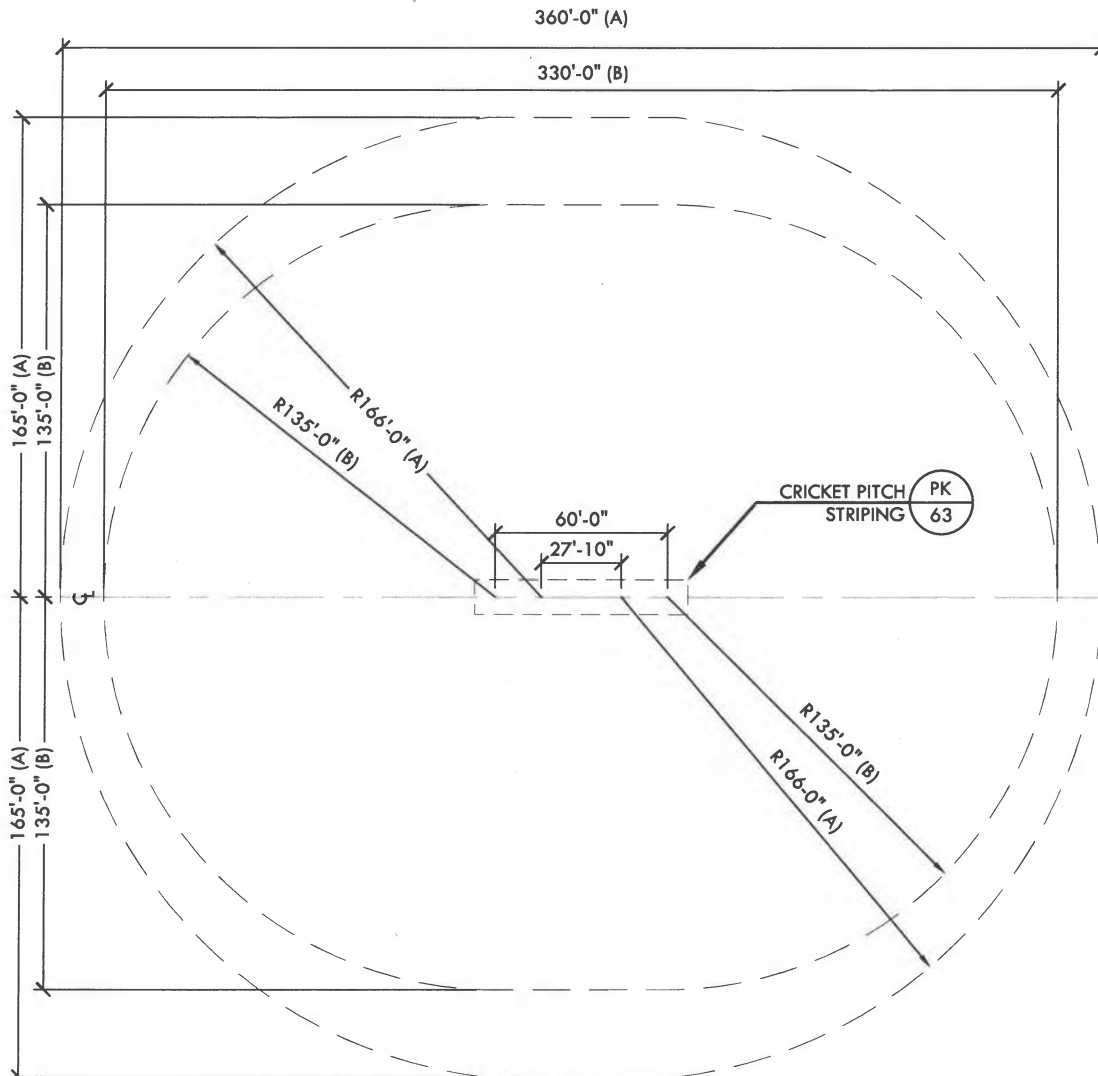
Sunnyvale

DATE: SEPTEMBER 22, 2019

DWG.

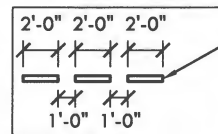
APPROVED BY:

PK-61



**NOTES:**

1. CRICKET FIELD STRIPING SHALL BE INLAID OR TUFTED 2" WIDE SILVER DASHED LINES, SEE ENLARGEMENT
2. BASEBALL/SOFTBALL STRIPING SHALL TAKE PRECEDENCE OVER SOCCER FIELD STRIPING. SOCCER FIELD STRIPING SHALL TAKE PRECEDENCE OVER CRICKET STRIPING.
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE.



**ENLARGEMENT**

CRICKET FIELD STRIPING  
TO BE 2'-0" LONG WITH  
1'-0" WIDE GAPS

**DIMENSION LEGEND**  
(A): ADULT CRICKET FIELD  
(B): YOUTH CRICKET FIELD

**PLAN**

**CRICKET FIELD STRIPING**



Sunnyvale

**DATE: OCTOBER 1, 2019**

**APPROVED BY:**

DWG.

**PK-62**

# CRICKET PITCH STRIPING



Sunnyvale

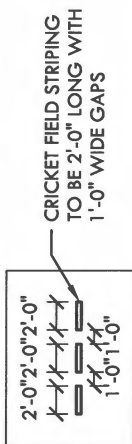
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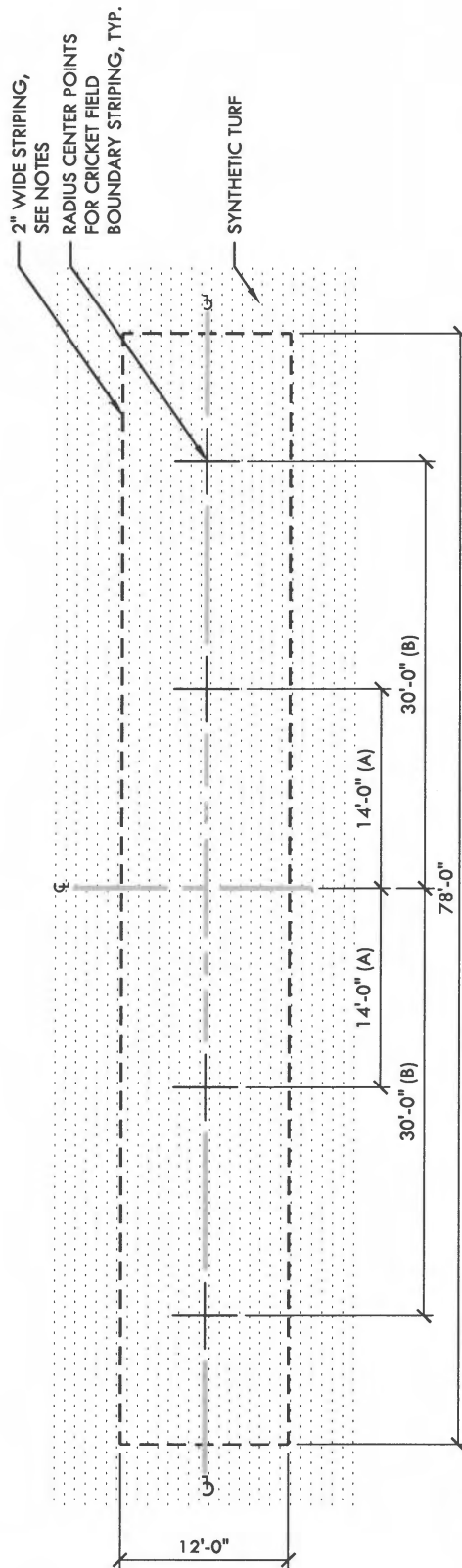
APPROVED BY:

DWG.

PK-63



## ENLARGEMENT

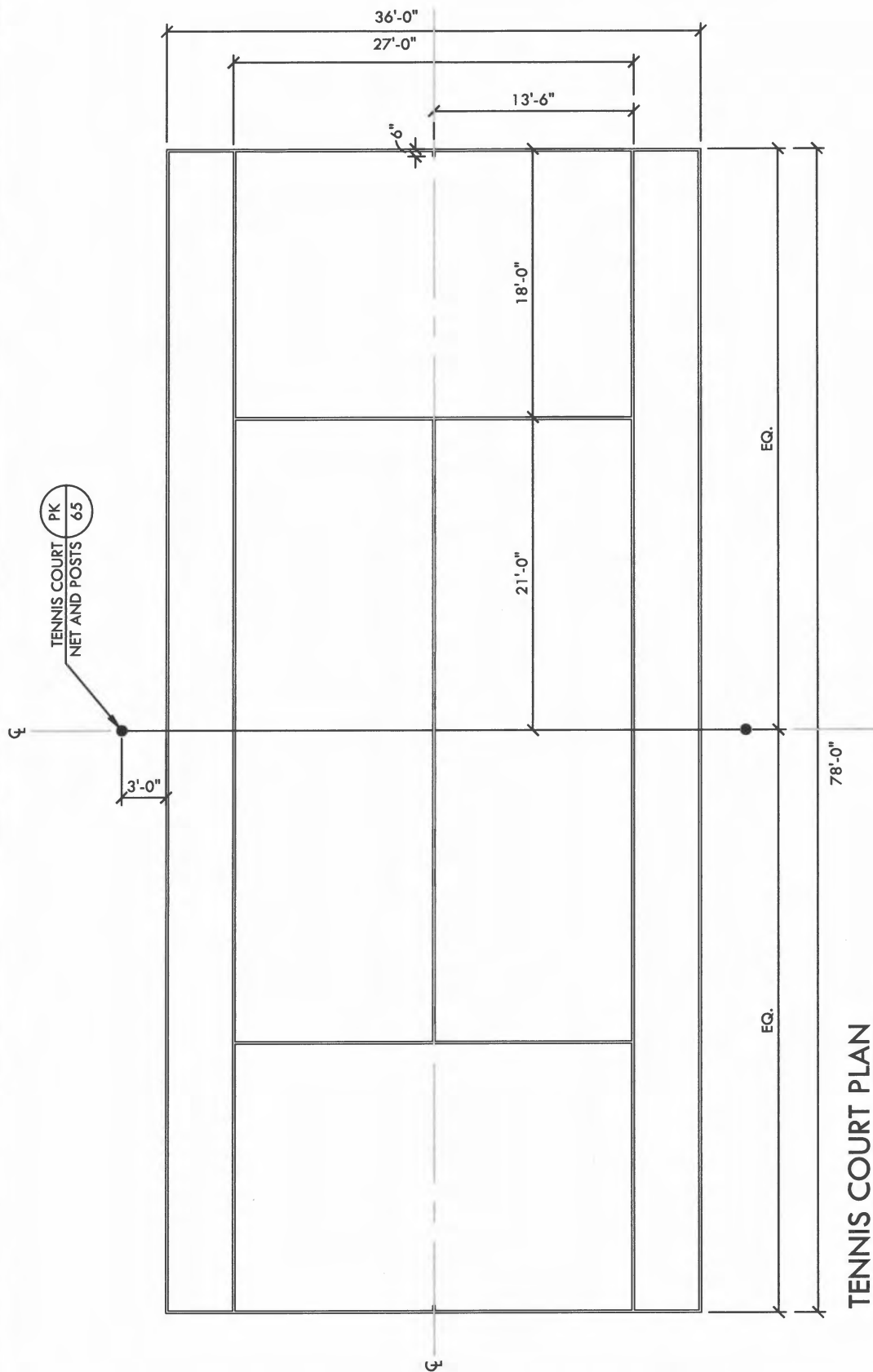


### NOTES

1. CRICKET FIELD STRIPING SHALL BE INLAID OR TUFTED 2" WIDE SILVER DASHED LINES, SEE ENLARGEMENT
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE.

DIMENSION LEGEND  
(A): ADULT CRICKET FIELD  
(B): YOUTH CRICKET FIELD

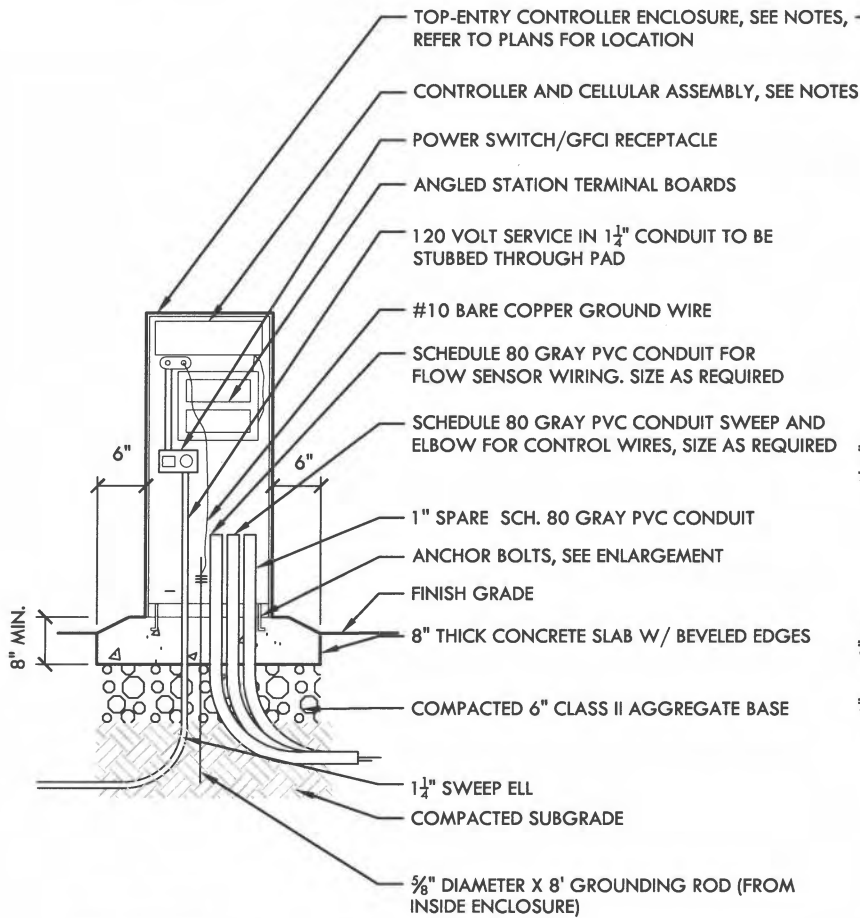
## CRICKET PITCH STRIPING PLAN



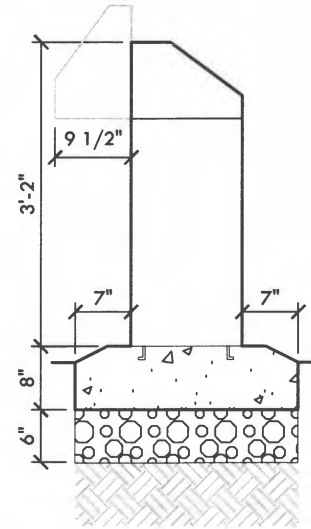
**NOTES:**

## TENNIS COURT STRIPING

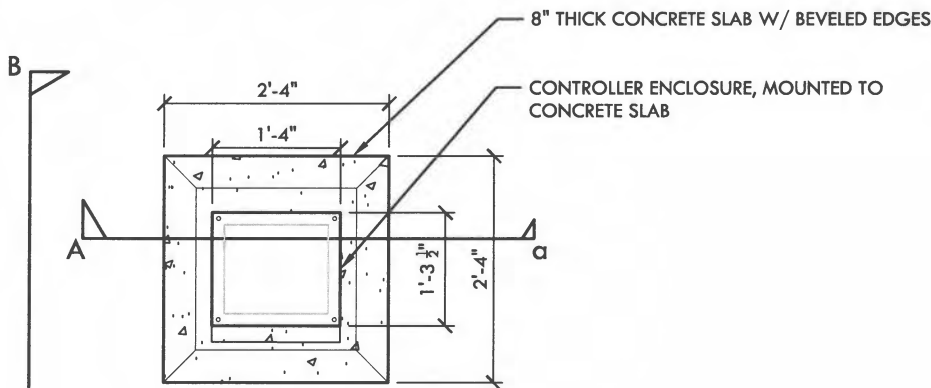




**SECTION Aa**



**ELEVATION Bb**



**PLAN VIEW**

**NOTES:**

1. SITEONE GREEN TECH RAINMASTER DX3 CONTROLLER ASSEMBLY IN TOP-ENTRY STAINLESS STEEL ENCLOSURE WITH CELLULAR COMMUNICATION (AIRCARD) AND REMOTE RECEIVER, AVAILABLE FROM SITEONE, GREENTECH WITH 10-YEAR SERVICE CONTRACT, CONTACT NICK MANFRE (925) 558-5965
2. NUMBER OF STATIONS AND FLOW-SENSOR SIZING TO BE DETERMINED BY IRRIGATION DESIGNER.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

**PEDESTAL MOUNT CONTROLLER**



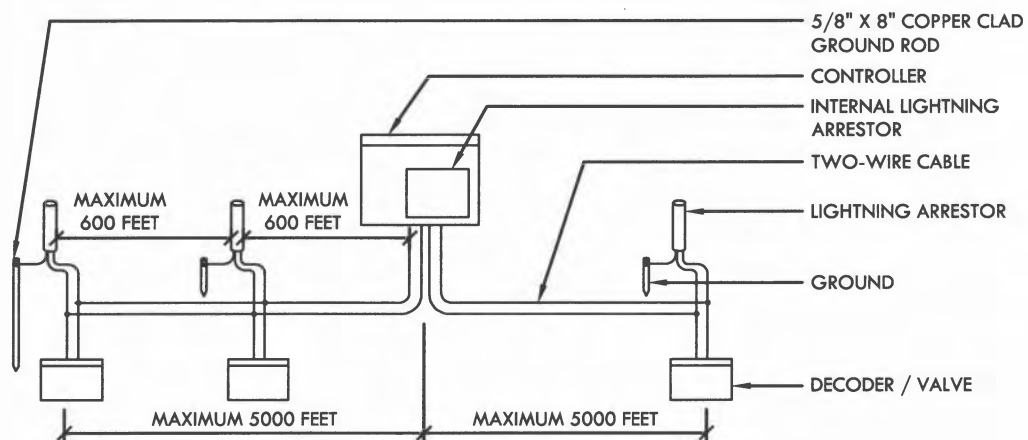
Sunnyvale

**DATE: SEPTEMBER 22, 2021**

DWG.

APPROVED BY:

**PK-66**



| STRAIGHT LINE CONFIGURATION               |                          |
|-------------------------------------------|--------------------------|
| WIRE GAUGE                                | TOTAL WIRE LENGTH (FEET) |
| TW-CAD-14                                 | 5,000                    |
| (MAX. 600 FT BETWEEN LIGHTNING ARRESTORS) |                          |

## TWO-WIRE CONNECTION



Sunnyvale

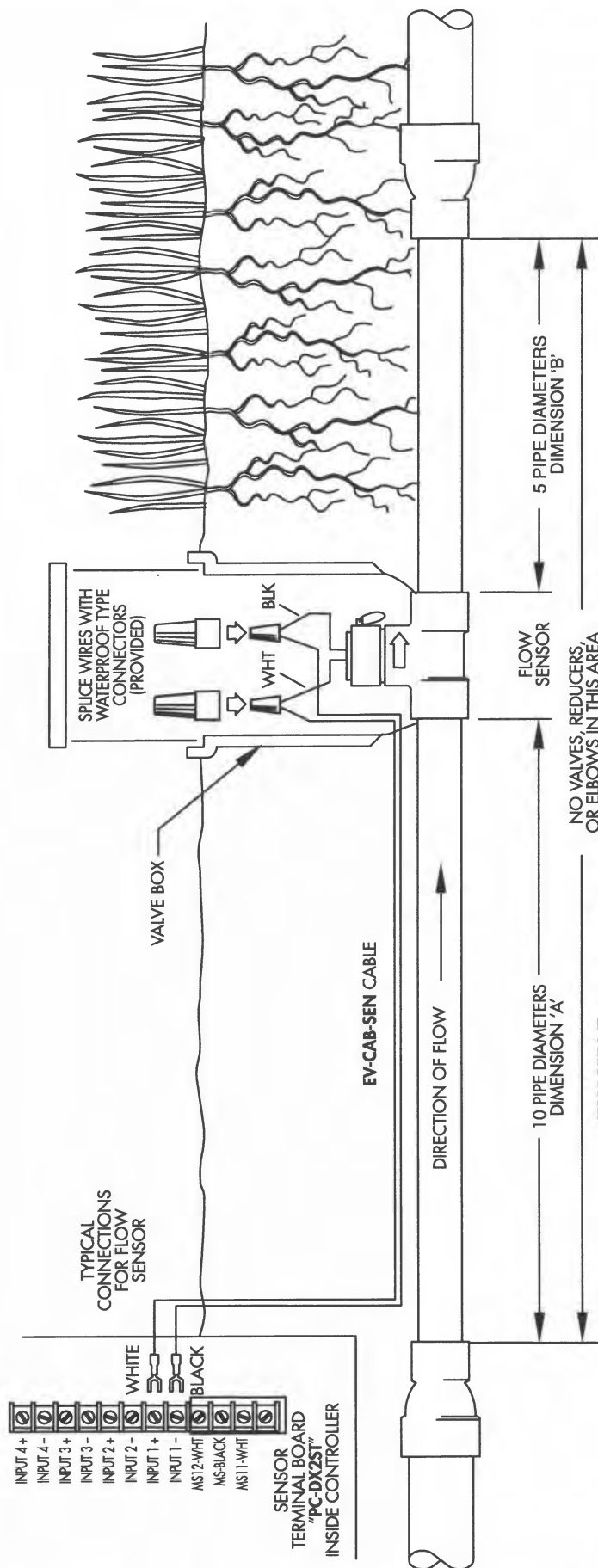
DATE: SEPTEMBER 22, 2021

DWG.

APPROVED BY:

PK-67

# IRRIGATION FLOW SENSOR INSTALLATION



## EXAMPLE:

**FOR 3" FLOW SENSOR, DIMENSION 'A' MINIMUM 30"  
DIMENSION 'B' MINIMUM 15"**

UPON COMPLETION OF THE PHYSICAL INSTALLATION OF THE FLOW SENSOR, COMPLETE THE WIRING CONNECTION FROM THE FLOW SENSOR TO THE DX2 CONTROLLER BY FOLLOWING THE PROCEDURE BELOW.

1. TURN THE POWER OFF AT THE CONTROLLER
2. AT THE FLOW SENSOR:

CONNECT THE BLACK WIRE OF THE FLOW SENSOR TO THE BLACK WIRE OF THE "EV-CAB-SEN" SENSOR CABLE.  
CONNECT THE WHITE WIRE OF THE FLOW SENSOR TO THE WHITE WIRE OF THE "EV-CAB-SEN" SENSOR CABLE.

\*USE THE WEATHERPROOF CONNECTORS PROVIDED WITH THE FLOW SENSOR TO MAKE THE CONNECTION.

3. AT THE CONTROLLER:

CONNECT BLACK WIRE OF "EV-CAB-SEN" TO "INPUT 1-" OF THE SENSOR TERMINAL BOARD (PC-DX2ST).  
CONNECT WHITE WIRE OF "EV-CAB-SEN" TO "INPUT 1+" OF THE SENSOR TERMINAL BOARD (PC-DX2ST).

4. TURN POWER ON AT THE CONTROLLER.

5. SET THE RAIN MASTER "K" AND "OFFSET" VALUES FOR THE FLOW SENSOR AT THE CONTROLLER BASED ON THE TYPE AND SIZE OF THE FLOW SENSOR INSTALLED.

REFER TO THE TABLE PROVIDED WITH THE FLOW SENSOR FOR CORRECT "K" AND "OFFSET" FOR YOUR APPLICATION.

RAIN MASTER EVOLUTION DX2- OR EQUAL



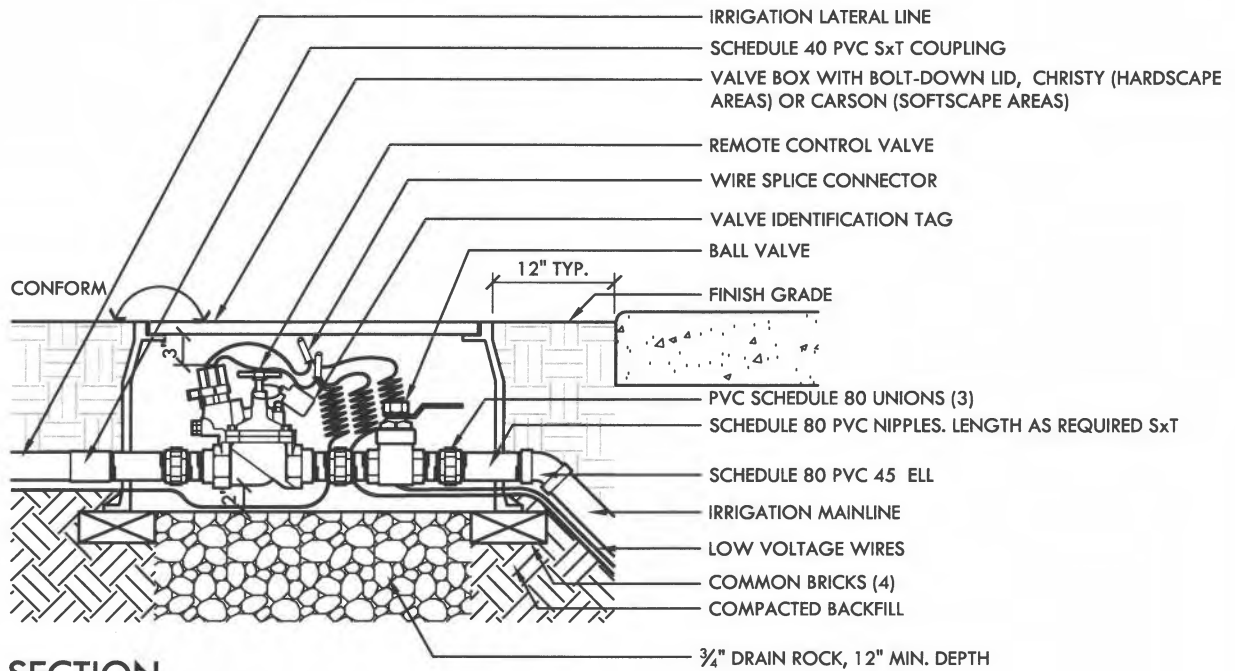
Sunnyvale

DATE : JUNE 30, 2006  
REVISED : FEBRUARY, 2022

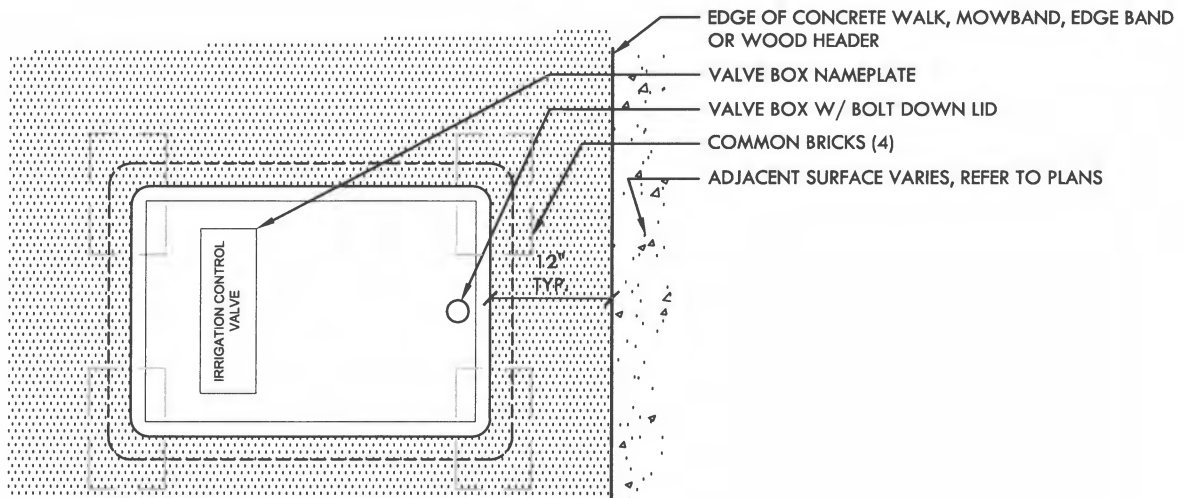
DWG.

APPROVED BY:

PK-68



## SECTION



## PLAN

### NOTES:

1. REMOTE CONTROL VALVE MODEL 2000 SERIES, SIZE 1"-2 1/2", FROM GRISWOLD CONTROLS, LLC.
2. VALVE TO HAVE 3" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF VALVE HANDLE/SOLENOID.
3. PROVIDE A THREE FOOT EXPANSION COIL AT EACH WIRE CONNECTION IN VALVE BOX. TAPE & BUNDLE LOW VOLTAGE WIRES, LOOP & COIL SPARE WIRE BUNDLES.
4. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

## REMOTE CONTROL VALVE WITH BALL VALVE



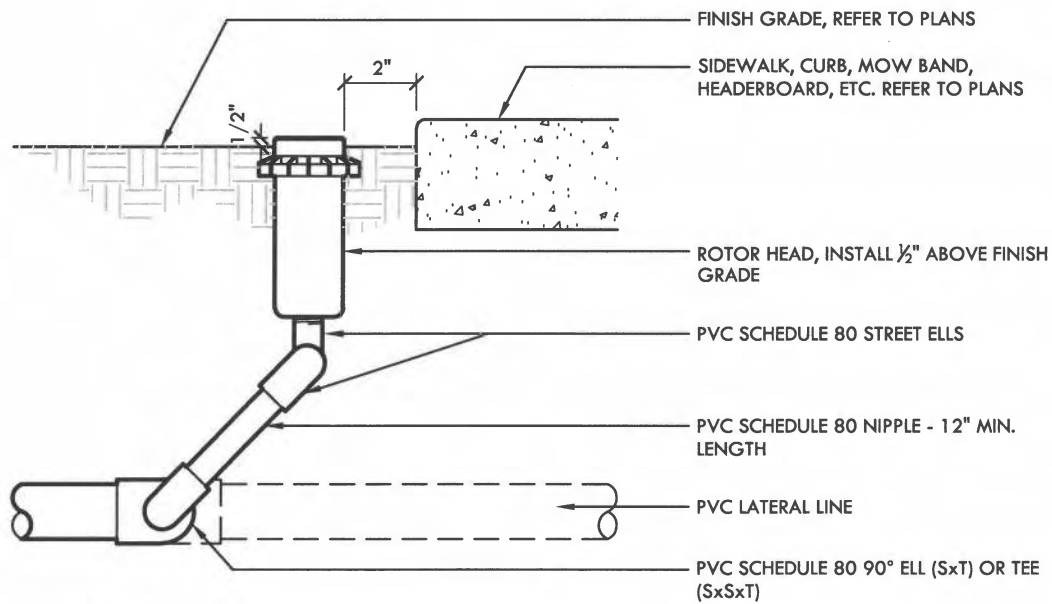
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DATE: AUGUST 31, 2018

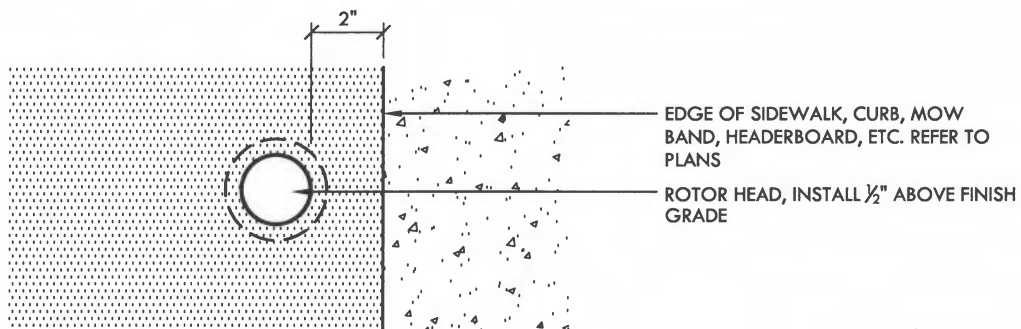
APPROVED BY:

DWG.

PK-69



## SECTION



## PLAN

### NOTES:

1. TURF ROTORS MODEL I-40, I-25 OR I-20, 6" STAINLESS STEEL ROTOR, FROM HUNTER, LLC. REFER TO IRRIGATION PLANS.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

## TURF ROTOR HEAD AND SWING JOINT



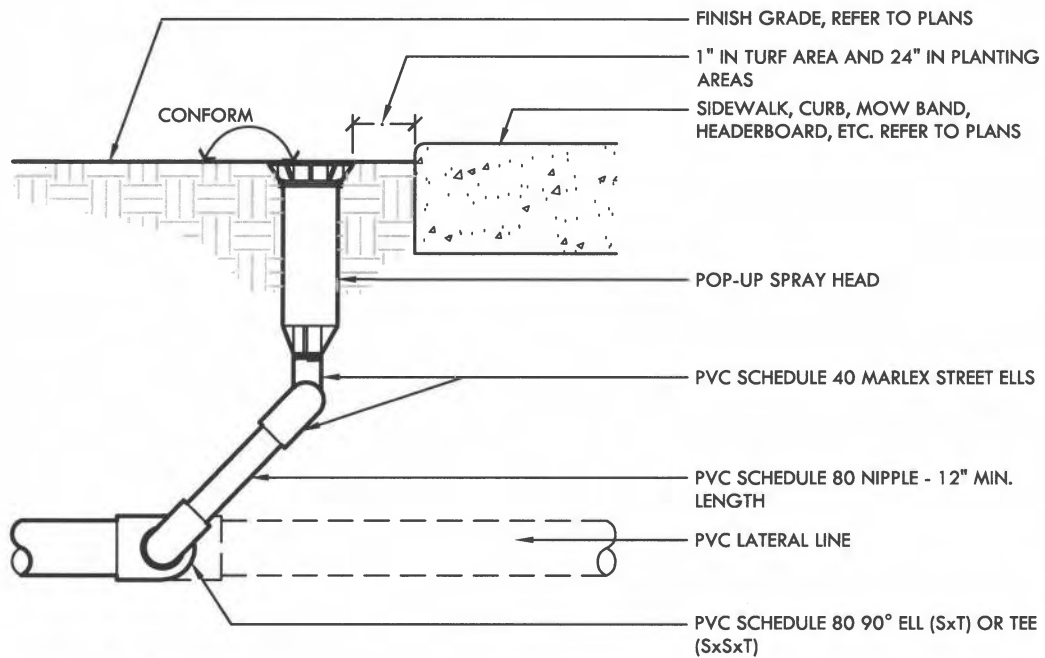
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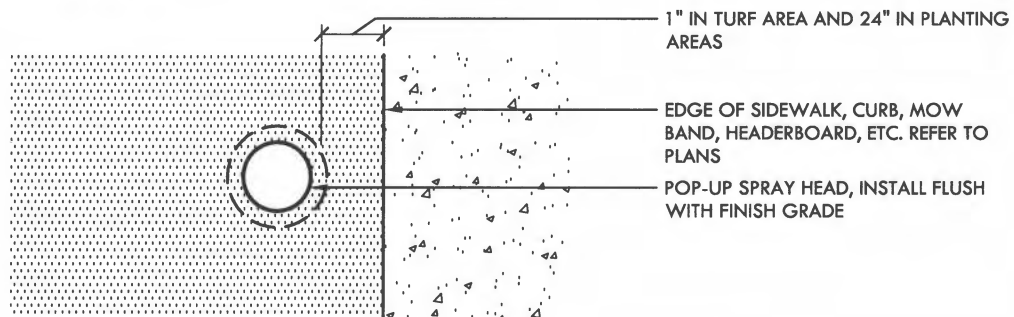
APPROVED BY:

DWG.

PK-70



## SECTION



## PLAN

### NOTES:

1. POP-UP HEADS, MODEL 1800 SERIES, FROM RAINBIRD, LLC.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

**POP-UP HEADS**



Sunnyvale

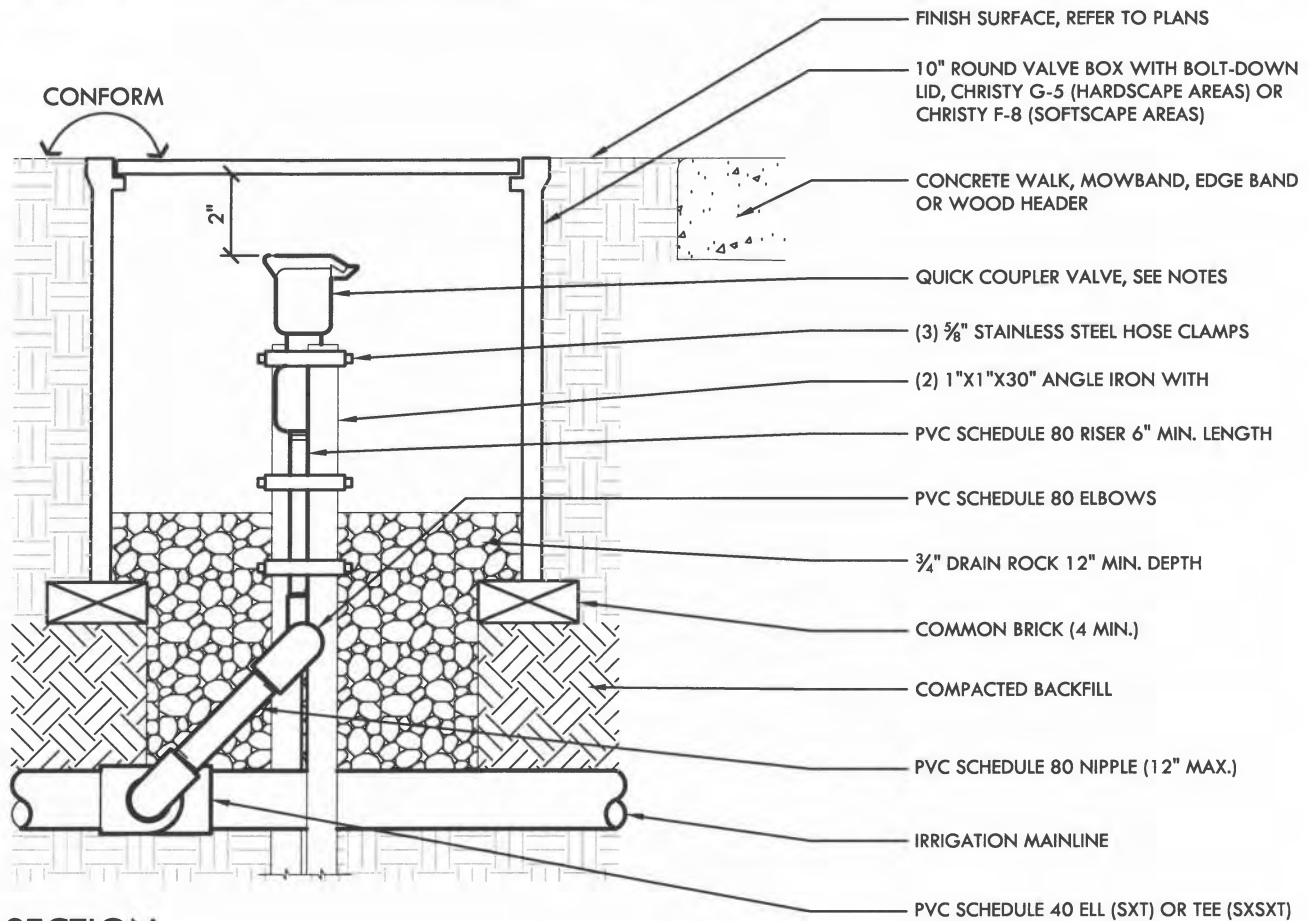
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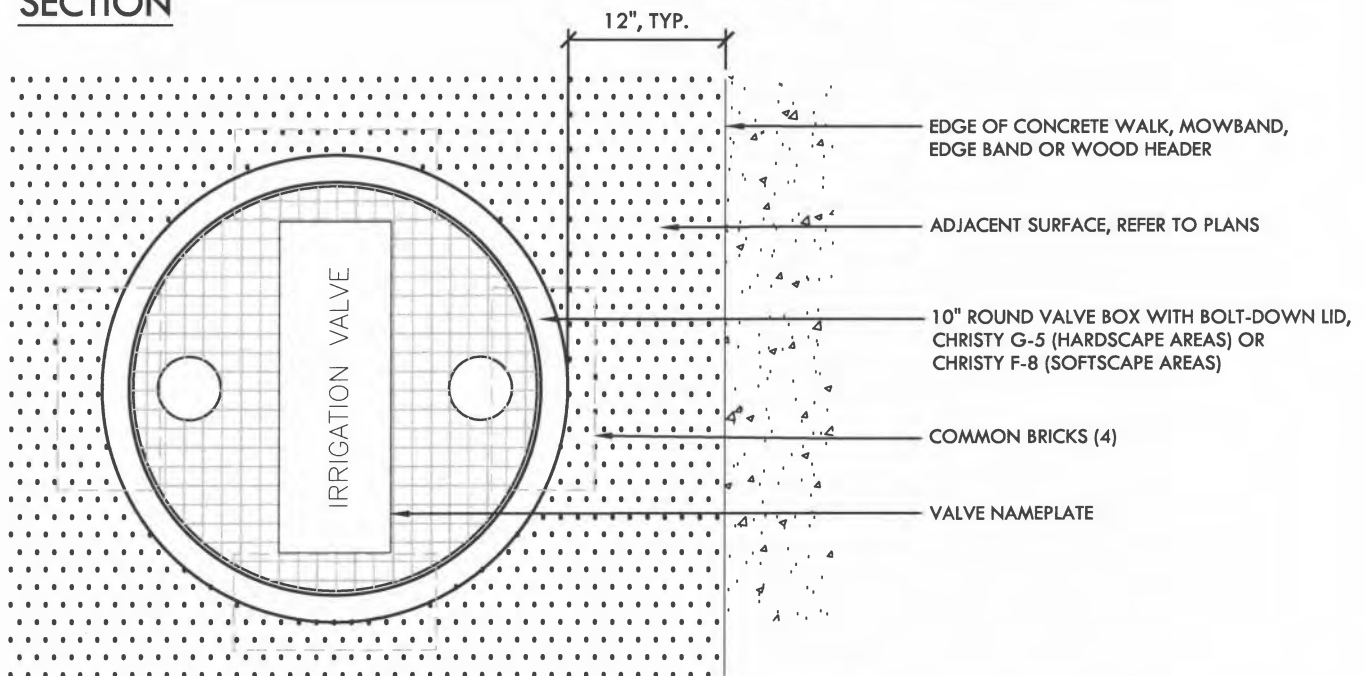
APPROVED BY:

DWG.

**PK-71**



## SECTION



## PLAN

### NOTES:

1. QUICK COUPLING VALVE, MODEL 44C, SIZE 1", WITH QUICK COUPLING KEY, MODEL 44K, FROM RAINBIRD, LLC.
2. VALVE TO HAVE 2" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF VALVE CAP.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

**QUICK COUPLING VALVE**



Sunnyvale

DATE: SEPTEMBER 22, 2021

*[Signature]*

APPROVED BY:

DWG.

**PK-72**



## SECTION

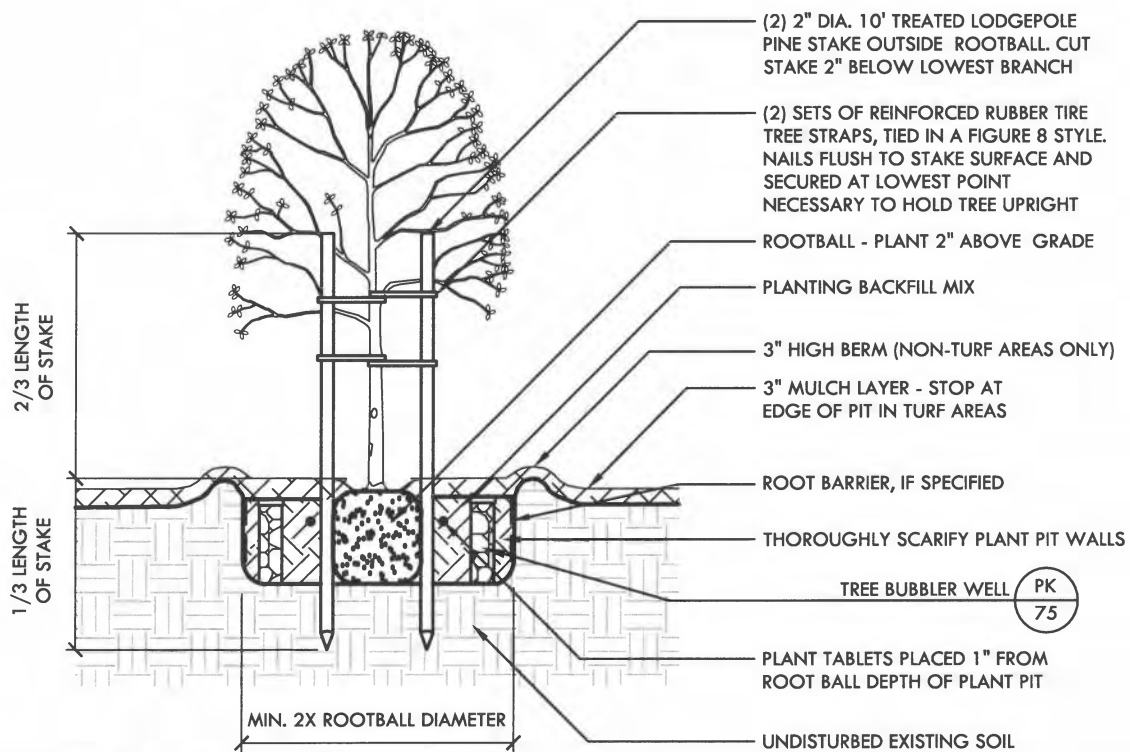


He

**APPROVED BY:**

**DWG.**

**PK-73**



## SECTION

### TREE PLANTING AND BUBBLER



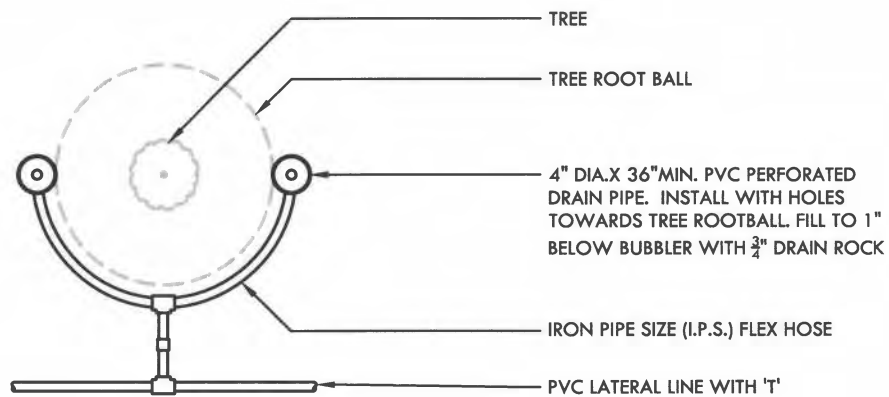
Sunnyvale

DATE: SEPTEMBER 22, 2021

DWG.

APPROVED BY:

PK-74



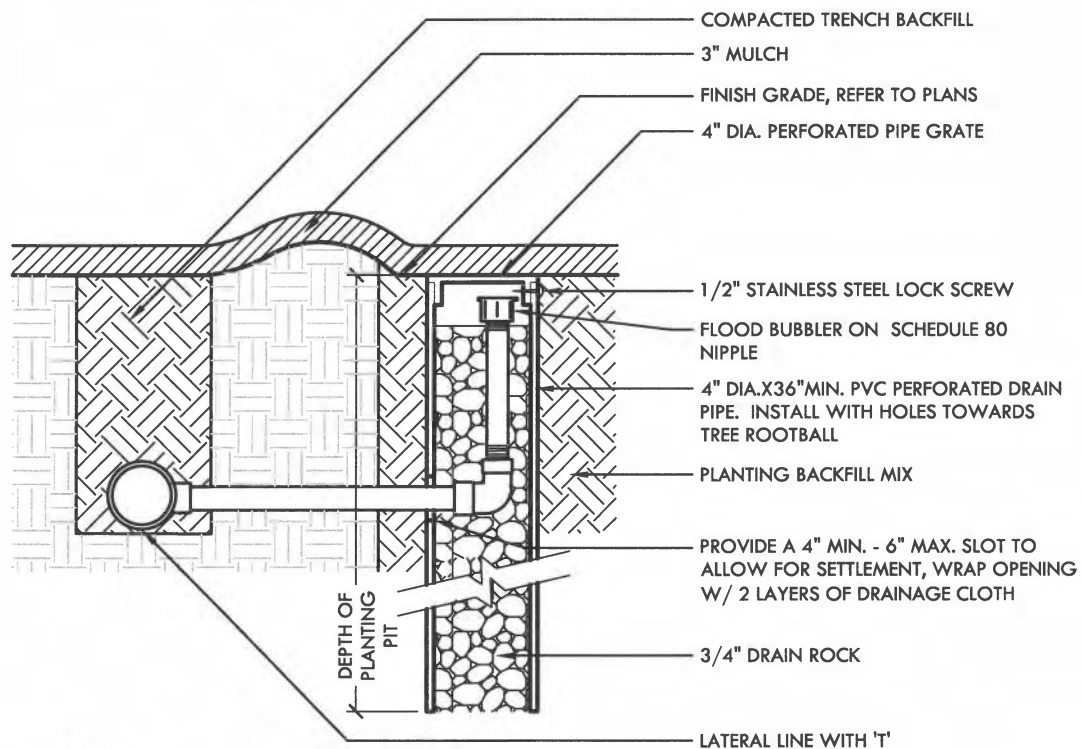
## PLAN

### NOTES:

- BUBBLERS ARE REQUIRED FOR TREES IN LAWN AREAS, SHRUB AREAS, AND TREE WELLS. BUBBLERS ARE TO BE EVENLY-SPACED ON OUTER EDGE OF ROOTBALL.
- USE PROPER RATED GLUE FOR IRON PIPE SIZE (I.P.S.) FLEX HOSE
- BUBBLER QUANTITIES PER CONTAINER SIZE SHALL BE AS FOLLOWS:  
 -2 PER 15 GALLON TREE  
 -4 PER 24" BOX TREE  
 -6 PER 36" BOX AND 48" BOX TREE

### TRUNK TO BUBBLER SPACING

| SIZE           | SPACING |
|----------------|---------|
| 15 GALLON TREE | 15"     |
| 24" BOX TREE   | 20"     |
| 36" BOX TREE   | 25"     |



## SECTION

### TREE BUBBLER WELL



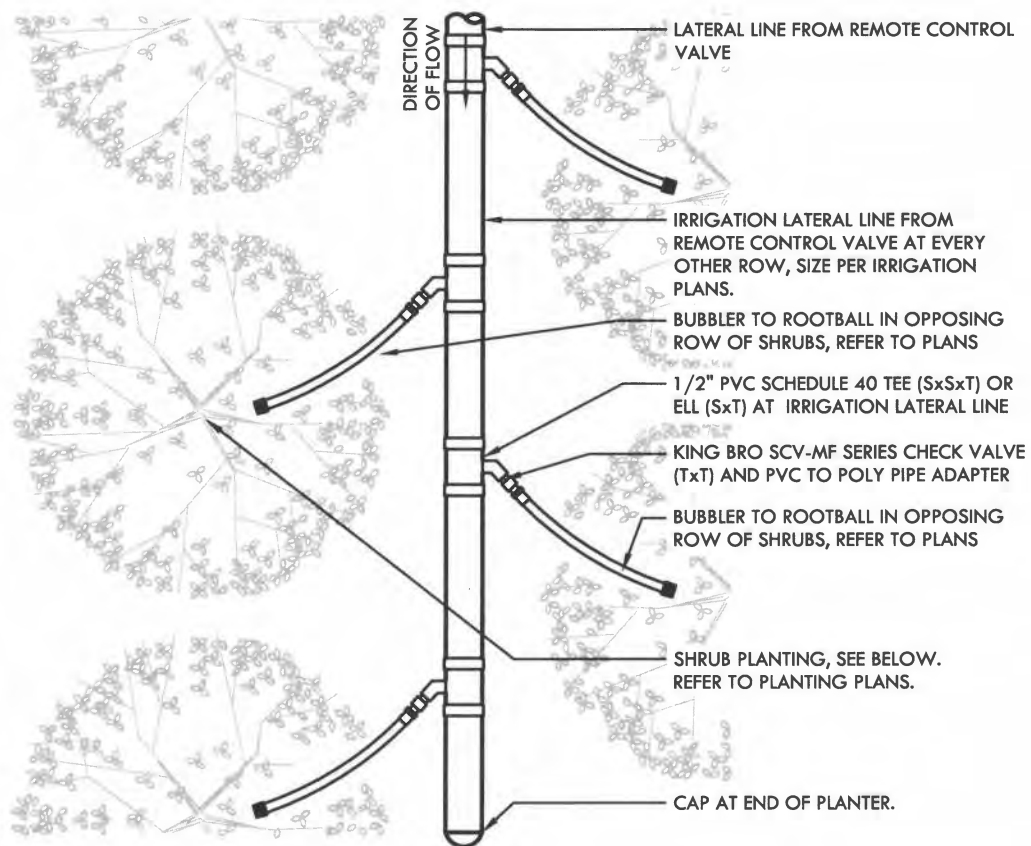
Sunnyvale

DATE: SEPTEMBER 22, 2021

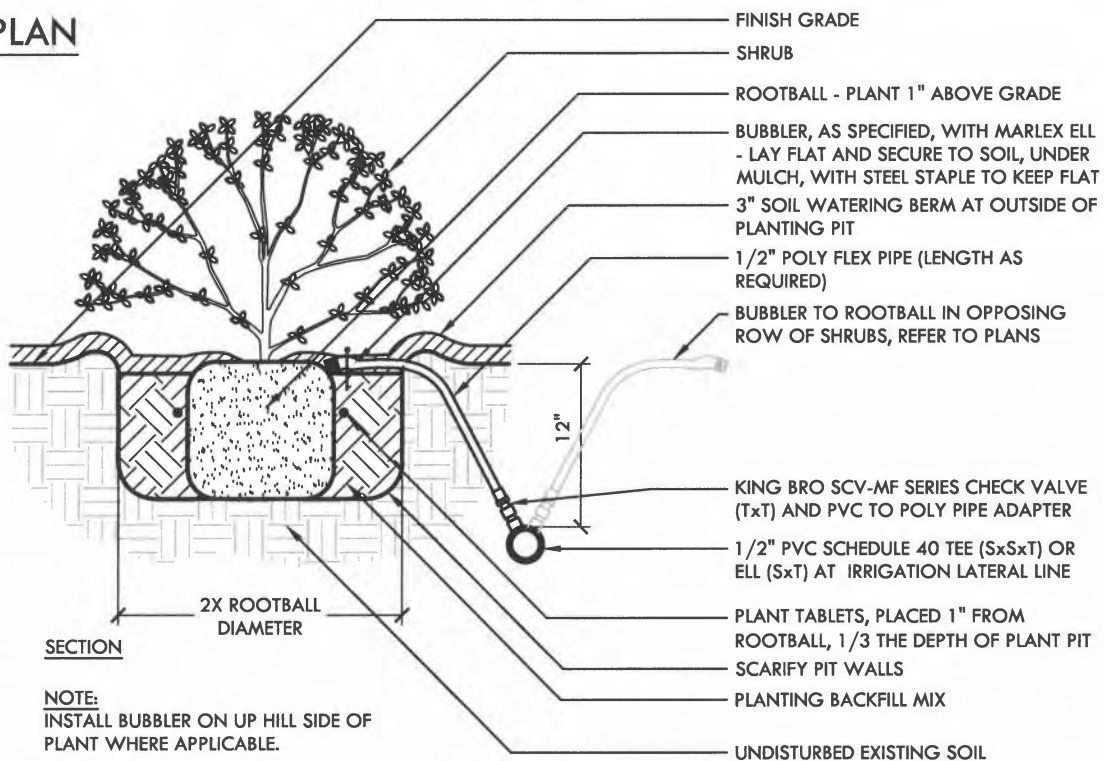
APPROVED BY:

DWG.

PK-75



## PLAN



## SECTION

### SHRUB PLANTING WITH BUBBLER



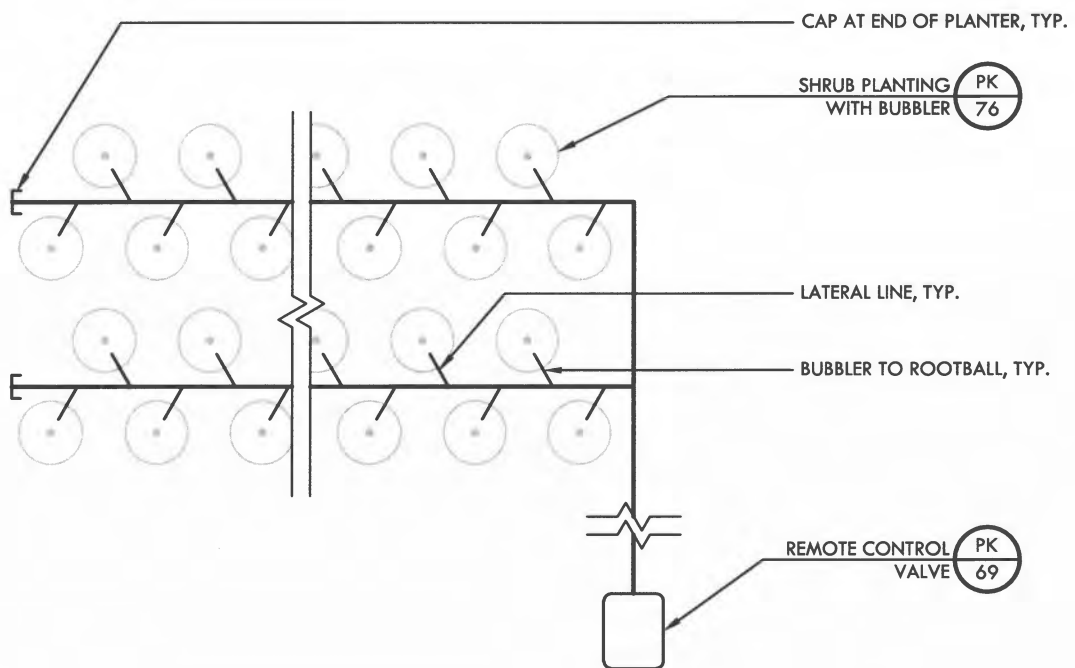
Sunnyvale

DATE: AUGUST 31, 2018

APPROVED BY:

DWG.

PK-76



PLAN

# **SHRUB IRRIGATION LAYOUT DIAGRAM**



Sunnyvale

DATE: AUGUST 31, 2018

APPROVED BY:

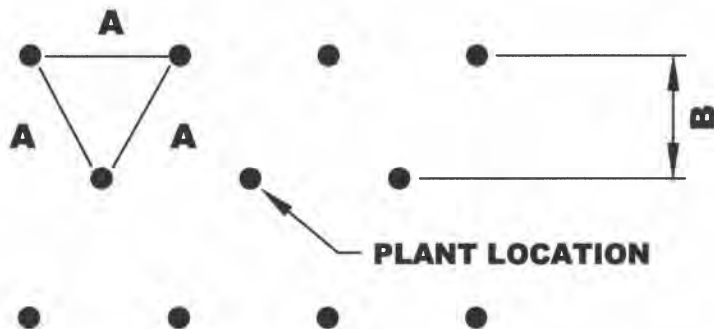
DWG.

**PK-77**

| SPACING 'A' | SPACING 'B' | No. OF PLANTS/SQ. FOOT |
|-------------|-------------|------------------------|
| 6" O.C      | 5.2"        | 4.60                   |
| 8" O.C      | 6.9"        | 2.60                   |
| 9" O.C      | 7.8"        | 1.78                   |
| 10" O.C     | 8.7"        | 1.66                   |
| 12" O.C     | 10.4"       | 1.15                   |
| 15" O.C     | 13.0"       | 0.74                   |
| 18" O.C     | 15.6"       | 0.51                   |
| 24" O.C     | 20.8"       | 0.29                   |
| 30" O.C     | 26.0"       | 0.19                   |
| 36" O.C     | 30.0"       | 0.12                   |

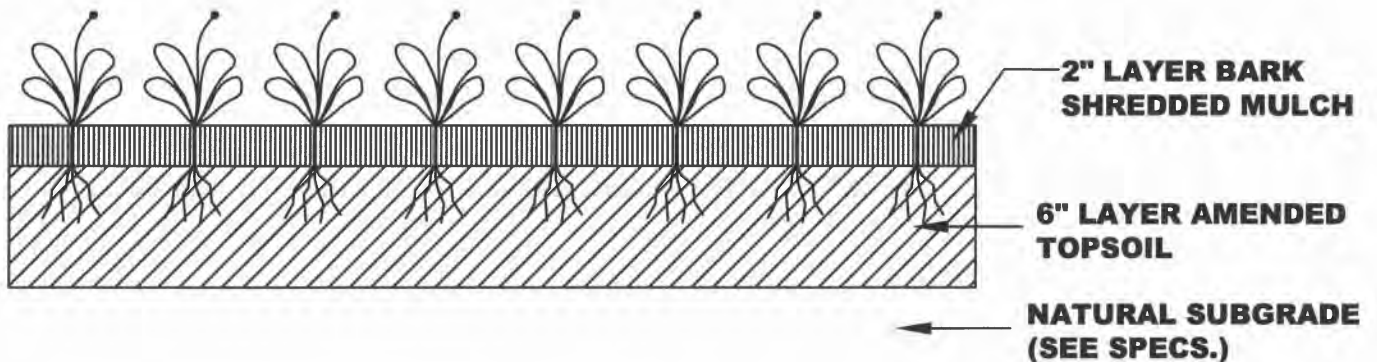
SEE GROUNDCOVER PLANT KEY FOR MAXIMUM TRIANGULAR SPACING "A". THIS CHART IS TO BE USED TO DETERMINE NUMBER OF GROUNDCOVER PLANTS REQUIRED IN A GIVEN AREA.

## PLANT SPACING CHART



FOR USE WHEN PLANTS ARE SPACED EQUIDISTANT FROM EACH OTHERS AS IN ALL GROUNDCOVER PLANTINGS AND MASSED SHRUB PLANTINGS.

## GROUNDCOVER



NO SCALE

## GROUND COVER PLANTING



Sunnyvale

DATE : JUNE 30, 2006  
REVISED : FEBRUARY, 2022

DWG.

APPROVED BY:

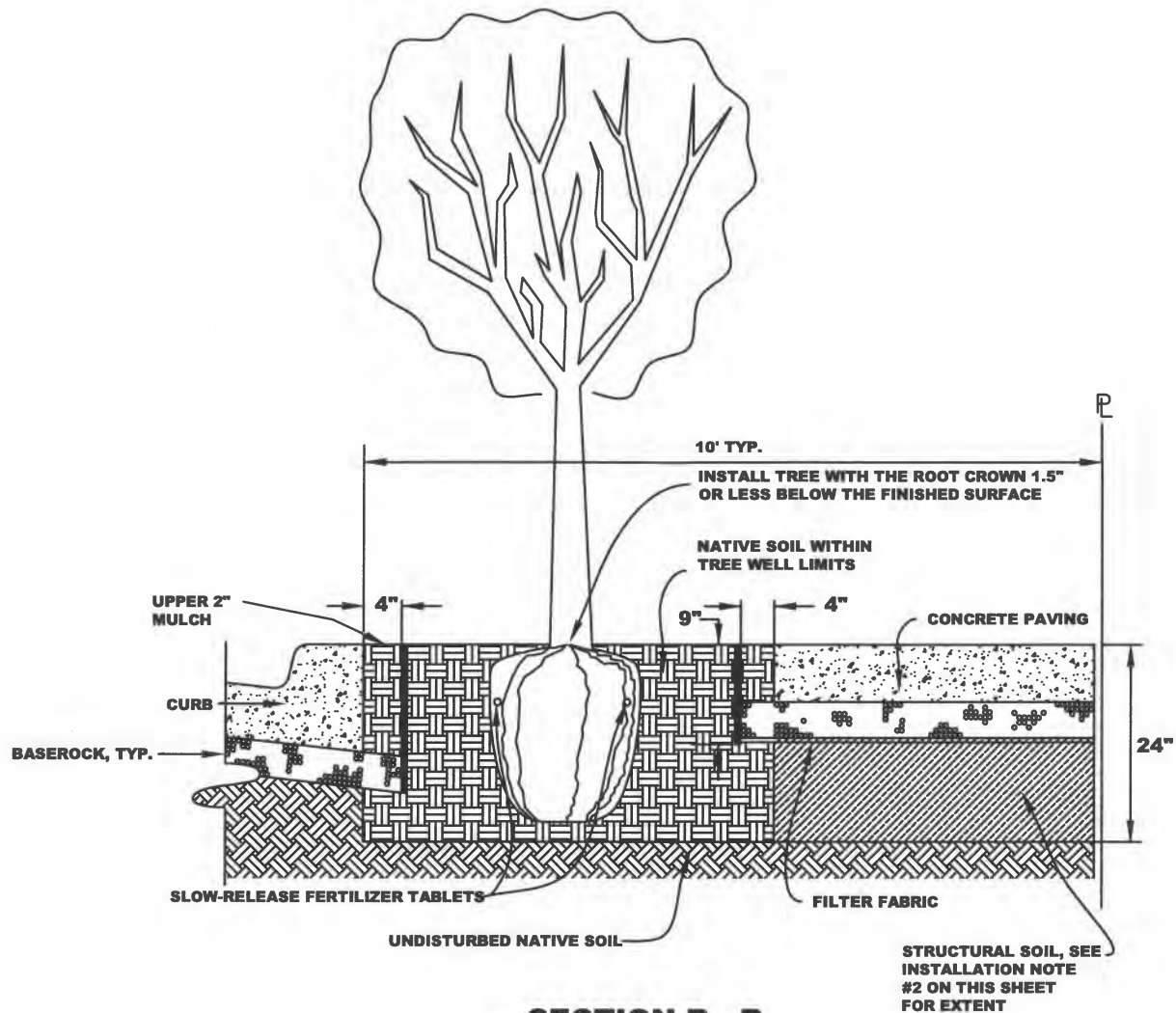
PK-78



A cross-sectional diagram of a sidewalk and root barrier assembly. The sidewalk is 10'-0" wide and has a 2% maximum, 1% minimum slope. It is 6" thick. Below the sidewalk is a 4" thick layer of material, followed by a 12" root barrier. The root barrier is labeled "VARIES" and "12" ROOT BARRIER".

## SECTION A-A

**PK-79**



### SECTION B - B NO SCALE

#### INSTALLATION NOTES:

1. STRUCTURAL SOIL BASE ROCK IS A SPECIAL BASE MATERIAL FORMULATED TO ALLOW TREE ROOT PENETRATION AS WELL AS STRUCTURAL SUPPORT OF THE CONCRETE WEARING COURSE. STRUCTURAL SOIL BASE ROCK SPECIFICATIONS AVAILABLE UNDER SEPARATE DOCUMENTATION.

2. THE STRUCTURAL SOIL BASE ROCK SHALL BE INSTALLED THE FULL WIDTH OF THE SIDEWALK AND TO A LENGTH OF TEN FEET ON EITHER SIDE OF THE STREET TREE. THE STRUCTURAL SOIL BASE ROCK SHALL BE TWENTY FOUR INCHES IN DEPTH FROM THE UNDERSIDE OF THE CONCRETE WALK.

3. THE STRUCTURAL SOIL BASE ROCK SHALL BE INSTALLED IN THE BOTTOM OF THE ROOT BARRIER TRENCH UP TO THE BASE OF THE SIDEWALK. THE STRUCTURAL SOIL BASE ROCK SHALL BE COMPACTED TO 95% PROCTOR DENSITY.

4. THE PLASTIC ROOT BARRIER SHALL BE A CONTINUOUS SHEET AROUND THE ENTIRE PERIPHERY OF THE TREE WELLS. THIS IS TO AVOID TREE ROOTS FROM GROWING IMMEDIATELY UNDER THE CONCRETE WEARING COURSE.

5. THE STREET TREE SHALL BE PLANTED DIRECTLY INTO THE STRUCTURAL SOIL BASE ROCK MATERIAL.

#### SECTION OF 4' X 5' TREE WELL



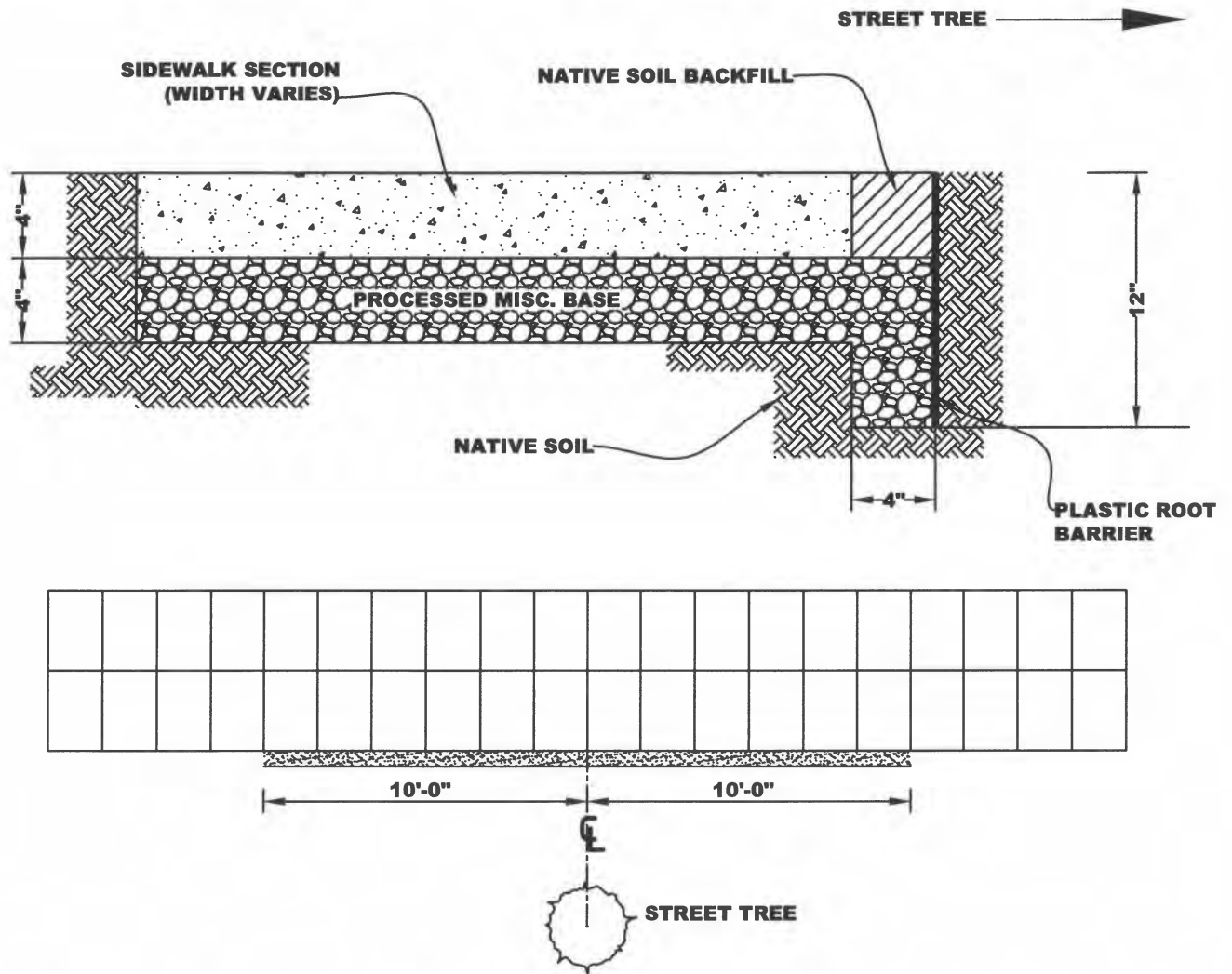
Sunnyvale

DATE : JUNE 30, 2006  
REVISED : AUGUST, 2021

APPROVED BY:

DWG.

PK-80



1. **PLASTIC ROOT BARRIER SHALL BE MINIMUM 40 MIL THICK HIGH DENSITY POLYETHYLENE PLASTIC SHEETING TWELVE (12) INCHES WIDE.**
2. **THE PLASTIC ROOT BARRIER SHALL BE INSTALLED FOUR (4) INCHES FROM THE CONCRETE EDGE ON THE TREE SIDE OF THE ROOT BARRIER TRENCH.**
3. **THE PLASTIC ROOT BARRIER SHALL BE A CONTINUOUS SHEET ITS ENTIRE INSTALLED LENGTH.**
4. **THE PLASTIC ROOT BARRIER SHALL BE INSTALLED TO A MINIMUM LENGTH OF TEN FEET EITHER SIDE OF THE CENTER LINE OF THE STREET TREE.**
5. **THE PLASTIC ROOT BARRIER SHALL EXTEND TO THE SOIL SURFACE. THE TOP EDGE OF ROOT BARRIER SHOULD BE AT GRADE AND VISIBLE AFTER INSTALLATION.**
6. **PROCESSED MISC. BASE SHALL BE INSTALLED IN BOTTOM OF ROOT BARRIER TRENCH UP TO BASE OF SIDEWALK. BASE ROCK SHALL BE COMPACTED TO 95% PROCTOR DENSITY.**
7. **NATIVE SOIL SHALL FILL TOP FOUR (4) INCHES OF ROOT BARRIER TRENCH. THIS SOIL DOES NOT REQUIRE COMPACTION.**
8. **IT IS IMPERATIVE THAT BASE ROCK IN ROOT BARRIER TRENCH BE COMPACTED. IF MATERIAL IN ROOT BARRIER TRENCH IS NOT COMPACTED, ROOTS WILL GROW INTO THIS AREA AND TRAVEL IN INTERFACES BETWEEN BASE OF CONCRETE AND BASE ROCK DEFEATING THE FUNCTION OF ROOT BARRIER INSTALLATION.**

## **ROOT CONTROL BARRIER INSTALLATION AT SIDEWALK**

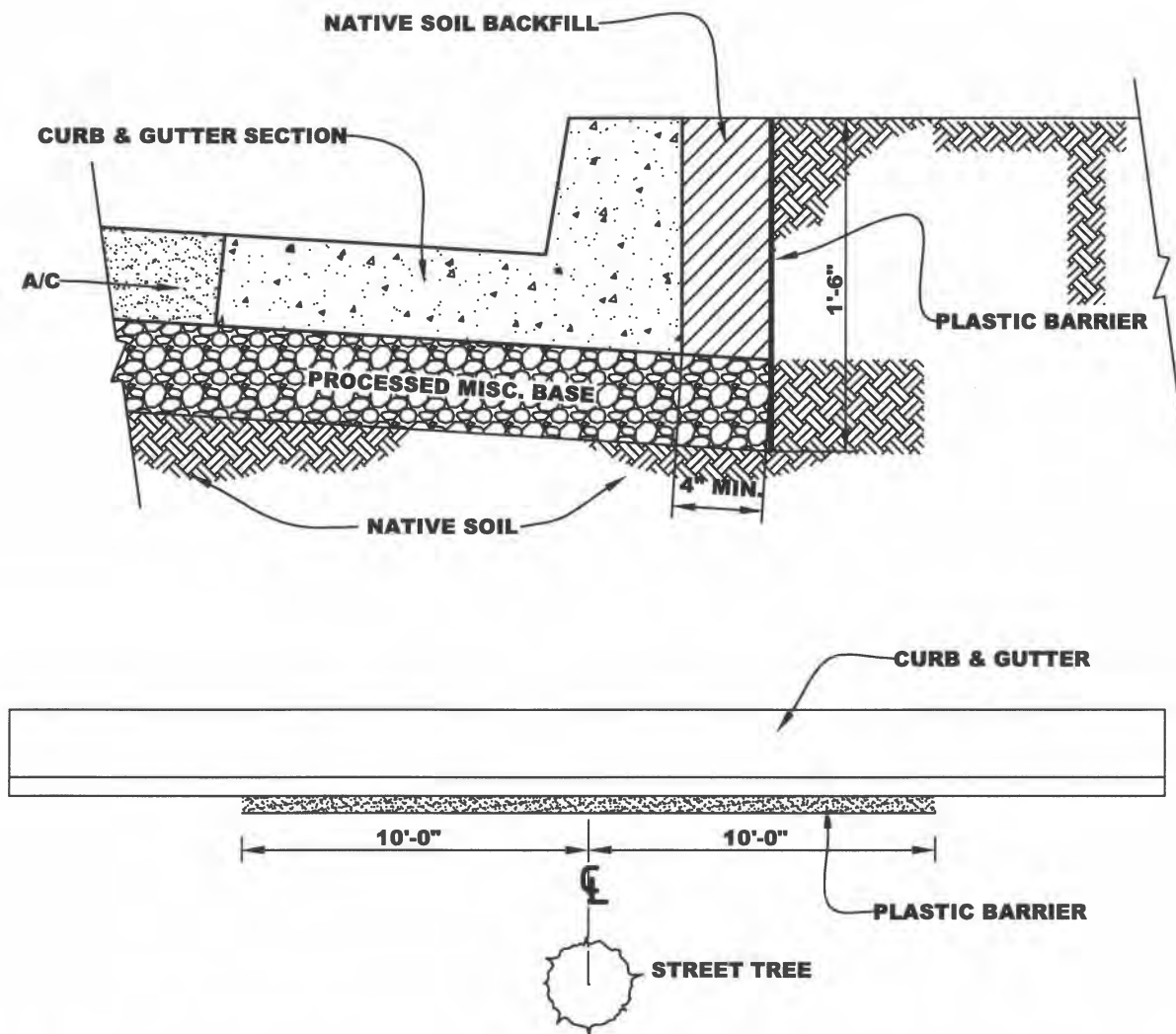


Sunnyvale

APPROVED BY:

**DATE** : JUNE 30, 2006  
**REVISED** : AUGUST, 2021

**PK-81**



1. PLASTIC ROOT BARRIER SHALL BE MINIMUM 40 MIL THICK HIGH DENSITY POLYETHYLENE PLASTIC SHEETING EIGHTEEN (18) INCHES WIDE.
2. THE PLASTIC ROOT BARRIER SHALL BE INSTALLED FOUR (4) INCHES FROM THE CONCRETE EDGE ON THE TREE SIDE OF THE ROOT BARRIER TRENCH.
3. THE PLASTIC ROOT BARRIER SHALL BE A CONTINUOUS SHEET ITS ENTIRE INSTALLED LENGTH.
4. THE PLASTIC ROOT BARRIER SHALL BE INSTALLED TO A MINIMUM LENGTH OF TEN FEET EITHER SIDE OF THE CENTER LINE OF THE STREET TREE.
5. THE PLASTIC ROOT BARRIER SHALL EXTEND TO THE SOIL SURFACE. THE TOP EDGE OF ROOT BARRIER SHOULD BE AT GRADE AND VISIBLE AFTER INSTALLATION.
6. PROCESSED MISC. BASE SHALL BE INSTALLED IN BOTTOM OF ROOT BARRIER TRENCH UP TO BASE OF SIDEWALK. BASE ROCK SHALL BE COMPACTED TO 95% PROCTOR DENSITY.
7. NATIVE SOIL SHALL FILL TOP TWELVE (12) INCHES OF ROOT BARRIER TRENCH. THIS SOIL DOES NOT REQUIRE COMPACTION.
8. IT IS IMPERATIVE THAT BASE ROCK IN ROOT BARRIER TRENCH BE COMPACTED. IF MATERIAL IN ROOT BARRIER TRENCH IS NOT COMPACTED, ROOTS WILL GROW INTO THIS AREA AND TRAVEL IN INTERFACES BETWEEN BASE OF CONCRETE AND BASE ROCK DEFEATING THE FUNCTION OF ROOT BARRIER INSTALLATION.

## ROOT CONTROL BARRIER INSTALLATION AT CURB

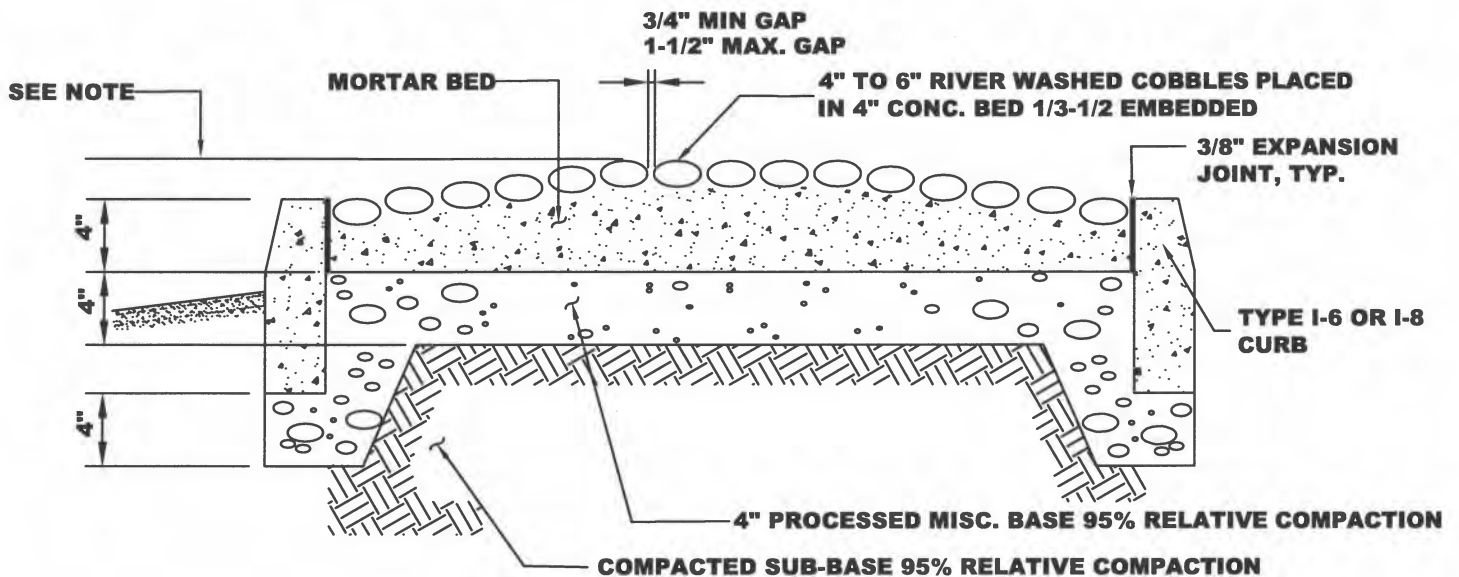
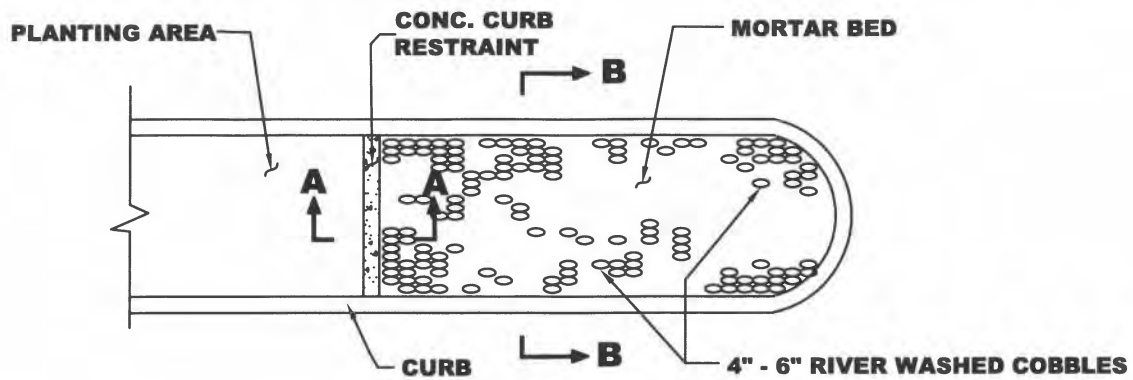


Sunnyvale

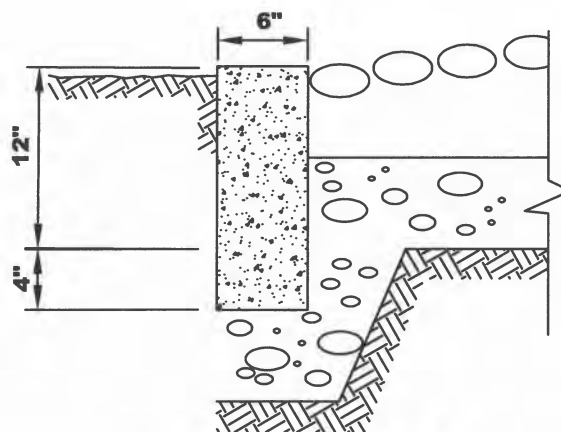
DATE : JUNE 30, 2000  
REVISED : FEBRUARY, 2022

APPROVED BY

PK-82



**SECTION B - B**



**SECTION A - A**

**NOTE:**

2" MIN. CROWN ON 8' WIDE MEDIAN, INCREASING PROPORTIONATELY TO 4" CROWN ON 20' WIDE MEDIAN.

**MEDIAN COBBLESTONE PAVING**



Sunnyvale

DATE : JUNE 30, 2006  
REVISED : AUGUST, 2021

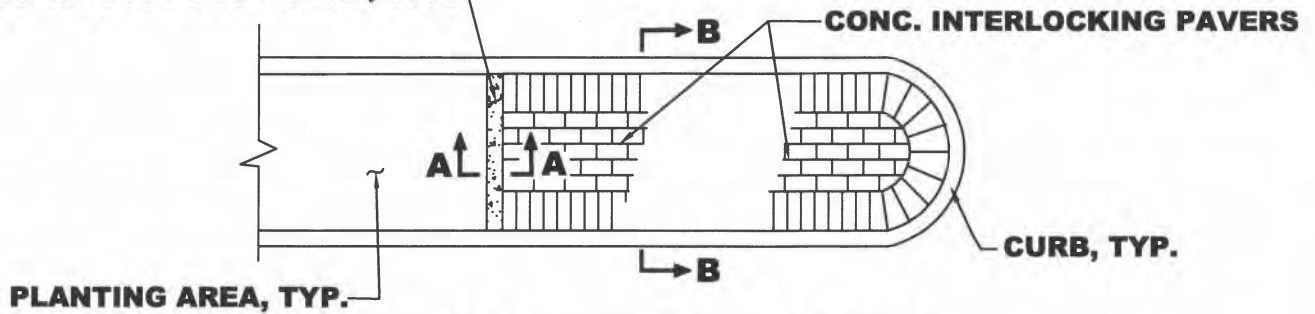
*[Signature]*

APPROVED BY:

DWG.

**PK-83**

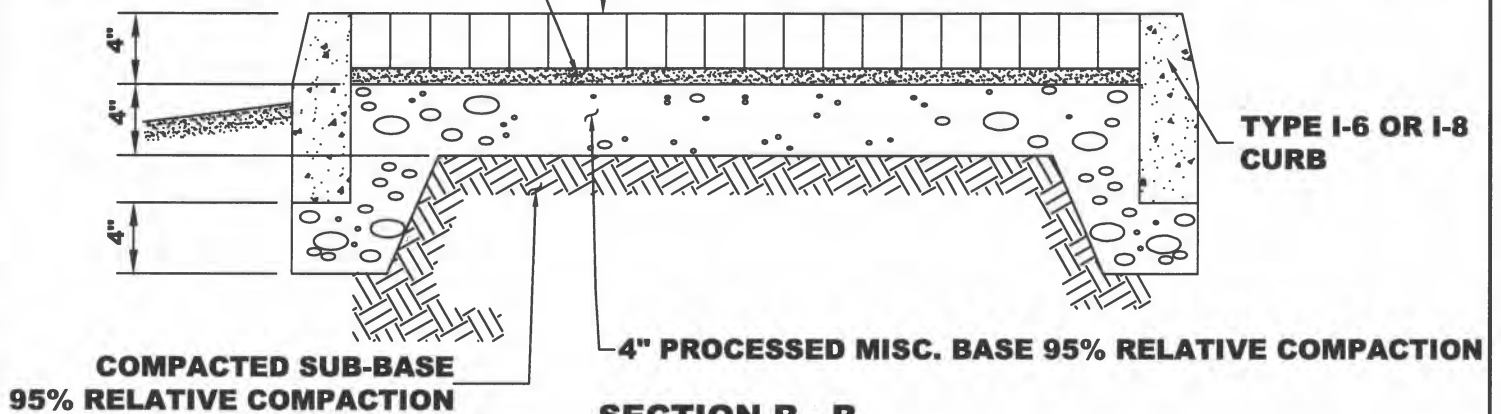
PAVER CONC. CURB RESTRAINT, TYP.



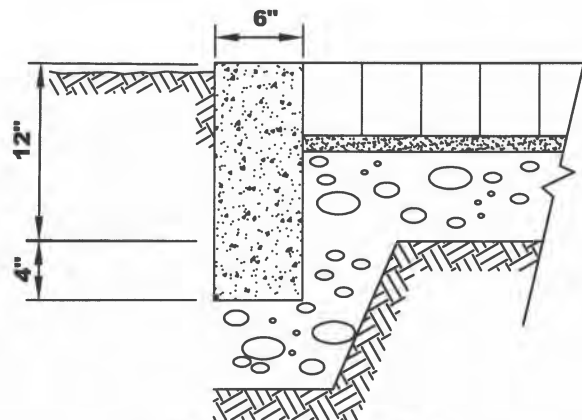
**MEDIAN PAVING PATTERN, TYP.**

1" SAND LEVELING COURSE

CONC. INTERLOCKING PAVERS (PER PAVING PATTERN)



**SECTION B - B**



**SECTION A - A**

**NOTES:**

1. CONCRETE INTERLOCKING PAVERS SHALL BE "ANTIQUE COBBLE" INTERLOCKING PAVERS BY PACIFIC INTERLOCK PAVINGSTONE, OR EQUAL.
2. PAVERS SHALL BE 5.1" X 7.6" X 2 3/8" THICK.
3. DETAIL SHALL BE USED FOR RESTORATION ONLY, NOT FOR NEW CONSTRUCTION.

**MEDIAN ARCHITECTURAL PAVERS**



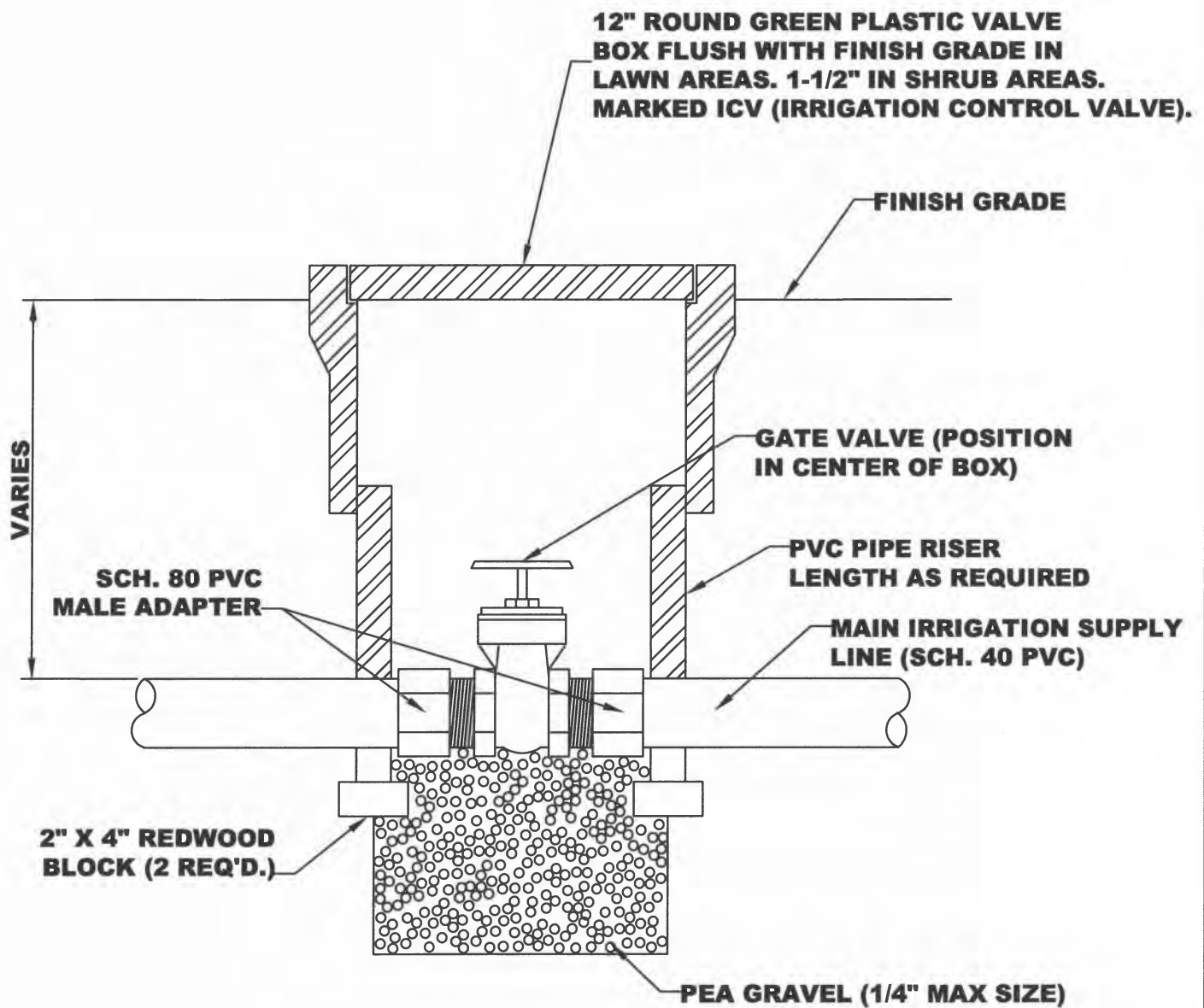
Sunnyvale

DATE : JUNE 30, 2006  
REVISED : APRIL, 2022

DWG.

APPROVED BY:

**PK-84**



## GATE VALVE-IRRIGATION SYSTEM



Sunnyvale

**DATE : JUNE 30, 2006**  
**REVISED : FEBRUARY, 2022**

*[Signature]*  
 APPROVED BY:

DWG.

**PK-85**