



carollo

PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
LS, CW, CS  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

# CITY OF SANTA BARBARA CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT

### SCOPE OF WORK:

THE WORK TO BE PERFORMED UNDER THIS CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

1. CONSTRUCTION OF A NEW 2.5-MG CHLORINE CONTACT BASIN.
2. SEISMIC UPGRADES TO THE EXISTING FINISHED WATER RESERVOIR.
3. REMOVAL OF SOLIDS RECOVERY BASIN NO. 3.
4. REMOVAL AND REROUTING OF ELECTRICAL CONDUITS BETWEEN SRB NO. 3 AND EXISTING RESERVOIR.
5. REMOVAL AND REROUTING OF RWW AND PW PIPES BETWEEN SRB NO. 3 AND EXISTING RESERVOIR.
6. REMOVAL OF RETAINING WALL ADJACENT TO EXISTING RESERVOIR.
7. PARTIAL PAVING OF EXISTING GRAVEL INTERNAL PLANT ACCESS ROAD WITH CONCRETE STRIPS.
8. MODIFICATIONS TO EXISTING SLUDGE DRYING BED AND RAMP.
9. CONSTRUCTION OF A NEW BIOFILTRATION BASIN AND ASSOCIATED PIPING.
10. NEW LANDSCAPING

THIS PROJECT SHALL COMPLY WITH THE LATEST VERSION OF THE FOLLOWING CODES:

- CALIFORNIA BUILDING CODE
- CALIFORNIA ELECTRIC CODE
- CALIFORNIA PLUMBING CODE
- CALIFORNIA MECHANICAL CODE
- CALIFORNIA GREEN BUILDING CODE
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES

APN: 055-171-007; 055-172-028; 055-172-030  
 PARCEL OWNER: CITY OF SANTA BARBARA  
 ADDRESS: 1150 SAN ROQUE ROAD  
 SITE NET AREA: SANTA BARBARA, CA 93105  
 BUILDING PERMIT No.: 16 ACRES  
 ZONING: RS-1A  
 GENERAL PLAN: INSTITUTIONAL; PARKS/OPEN SPACE  
 HIGH FIRE: YES  
 FLOOD PLAIN: NO  
 AVERAGE SLOPE OF PROPERTY: OVER 30%

CUT OUTSIDE MAIN STRUCTURE FOOTPRINT: 0 CY  
 CUT UNDER MAIN STRUCTURE FOOTPRINT: 10,325 CY  
 FILL OUTSIDE MAIN STRUCTURE FOOTPRINT: 1,741 CY  
 FILL UNDER MAIN STRUCTURE FOOTPRINT: 1,484 CY

TOTAL EXPORT: 7,913 CY  
 TOTAL IMPORT: 1,390 CY

PROPOSED NEW IMPERVIOUS AREA: 3,660 SF  
 PROPOSED REPLACED IMPERVIOUS AREA: 8,240 SF  
 PROPOSED REMOVED IMPERVIOUS AREA: 24,978 SF

THE PROJECT IS EXPECTED TO HAVE NO IMPACTS ON SITE PARKING.

### NOTE:

1. THE PROJECT DATA IS AS FOLLOWS:

LOT COVERAGE	EXISTING	PROPOSED
BUILDING FOOTPRINT(S)	140,916 SF 18%	140,916 SF 18%
IMPERMEABLE SURFACES	140,278 SF 18%	118,961 SF 16%
PERMEABLE SURFACES	485,079 SF 63%	506,396 SF 66%
TOTAL	766,273 SF 100%	766,273 SF 100%

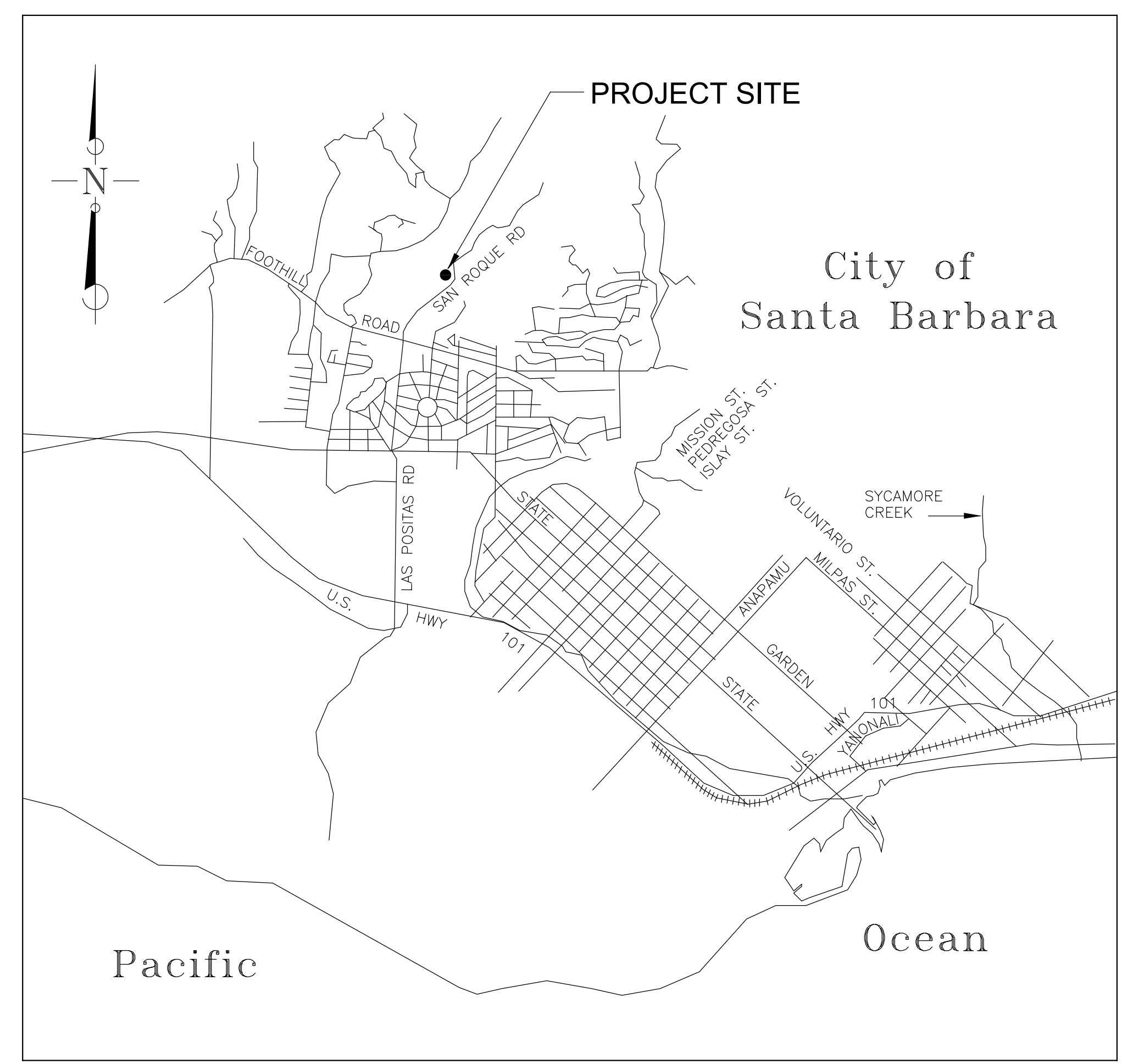
NEW STRUCTURE	AREA	HEIGHT
CONTACT BASIN	25,100 SF	17 FT

EXISTING STRUCTURE TO BE DEMOLISHED	AREA	HEIGHT
SOLIDS RECOVERY BASIN #3	20,880 SF	8 FT

PROPERTY LINES ARE APPROXIMATE



Know what's below.  
Call before you dig.



LOCATION MAP  
NO SCALE

### SPECIAL INSPECTIONS AND STRUCTURAL OBSERVATIONS:

SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH CBC 2019 CHAPTER 17 AND SHALL BE AS INDICATED ON THE DRAWINGS.

INSPECTIONS SHALL BE CALLED IN BY CONTRACTOR FOR INSPECTION 72 HOURS PRIOR NEEDED INSPECTION. THE CITY WILL THEN ROUTE TO THE QSP INSPECTOR OR THIRD PARTY COMPANY.

### GENERAL:

- PRE-CONSTRUCTION MEETING
- FINAL INSPECTION ONCE COMPLETED

### PERVIOUS PAVEMENTS:

- SUBGRADE EXCAVATION AND COMPACTION
- DRAIN ROCK, FILTER LAYER INSTALLATION
- PERVIOUS PAVEMENT INSTALLATION
- STRENGTH TESTING
- INFILTRATION TESTING

### GREEN ROOF:

- STRUCTURAL SUPPORT INSTALLATION, TESTING, AND CONFIRMATION OF GREEN ROOF LOADING
- ROOFING MEMBRANE INSTALLATION
- INSULATION INSTALLATION
- DRAINAGE, AERATION, WATER STORAGE, AND ROOT BARRIER INSTALLATION
- GROWING MEDIUM INSTALLATION
- IRRIGATION INSTALLATION AND TESTING
- VEGETATION INSTALLATION
- VEGETATION ESTABLISHMENT MONIROTING AND REPORTING

### APPLICATIONS:

1. A FRONT SETBACK MODIFICATION TO ALLOW AN ENCROACHMENT INTO THE 35-FOOT FRONT SETBACK (APN 055-172-030 AND 055-172-028) FOR TEMPORARY STORAGE AND STAGING DURING CONSTRUCTION (SBMC TABLE 30.20.030.A AND SBMC §30.250.020).
2. A PERFORMANCE STANDARD PERMIT FOR PUBLIC WORKS AND UTILITIES FOR THE REHABILITATION OF THE CATER WATER TREATMENT PLANT FACILITY'S RESERVOIRS AND BASINS (SBMC §30.185.340.C AND SBMC Chapter 30.255);
3. A PERFORMANCE STANDARD PERMIT TO ALLOW RESIDENTIALLY ZONED PROPERTY (APN 055-172-030 AND 055-172-028) TO BE TEMPORARILY USED FOR CONSTRUCTION AND STORAGE AND STAGING FOR THE PROJECT (SBMC TABLE 30.20.020, SBMC §30.185.420.F, AND SBMC CHAPTER 30.255); AND
4. DESIGN REVIEW BY THE ARCHITECTURAL BOARD OF REVIEW (ABR) (SANTA BARBARA MUNICIPAL CODE (SBMC) §22.68.020.B).

DESIGN \_\_\_\_\_  
DRAWN \_\_\_\_\_  
CHECKED \_\_\_\_\_

DATE APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_

60% SUBMITTAL  
NOT FOR  
CONSTRUCTION

NO. \_\_\_\_\_

REVISIONS

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
COVER SHEET

N/A  
PBW. NO.

XXXX  
BID. NO. SHT. DES.

G01  
DWG. NO.

SHT. 1 OF XX

Plot Date: 7/20/2021 11:33:37 PM

200301-100000

sdwhite

Plot Date: 3/14/2024 2:49:00 PM

PROJECT NO. 200301-100000 FILE NAME: 20030100GC01.dwg

LAST SAVED BY: BBerg



PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

APPROVED: L.S. CW CITY ENGINEER ORIGINAL SIGNED DATE

DESIGN DRAWN CHECKED

DATE APPROVED

60% SUBMITTAL NOT FOR CONSTRUCTION REVISIONS

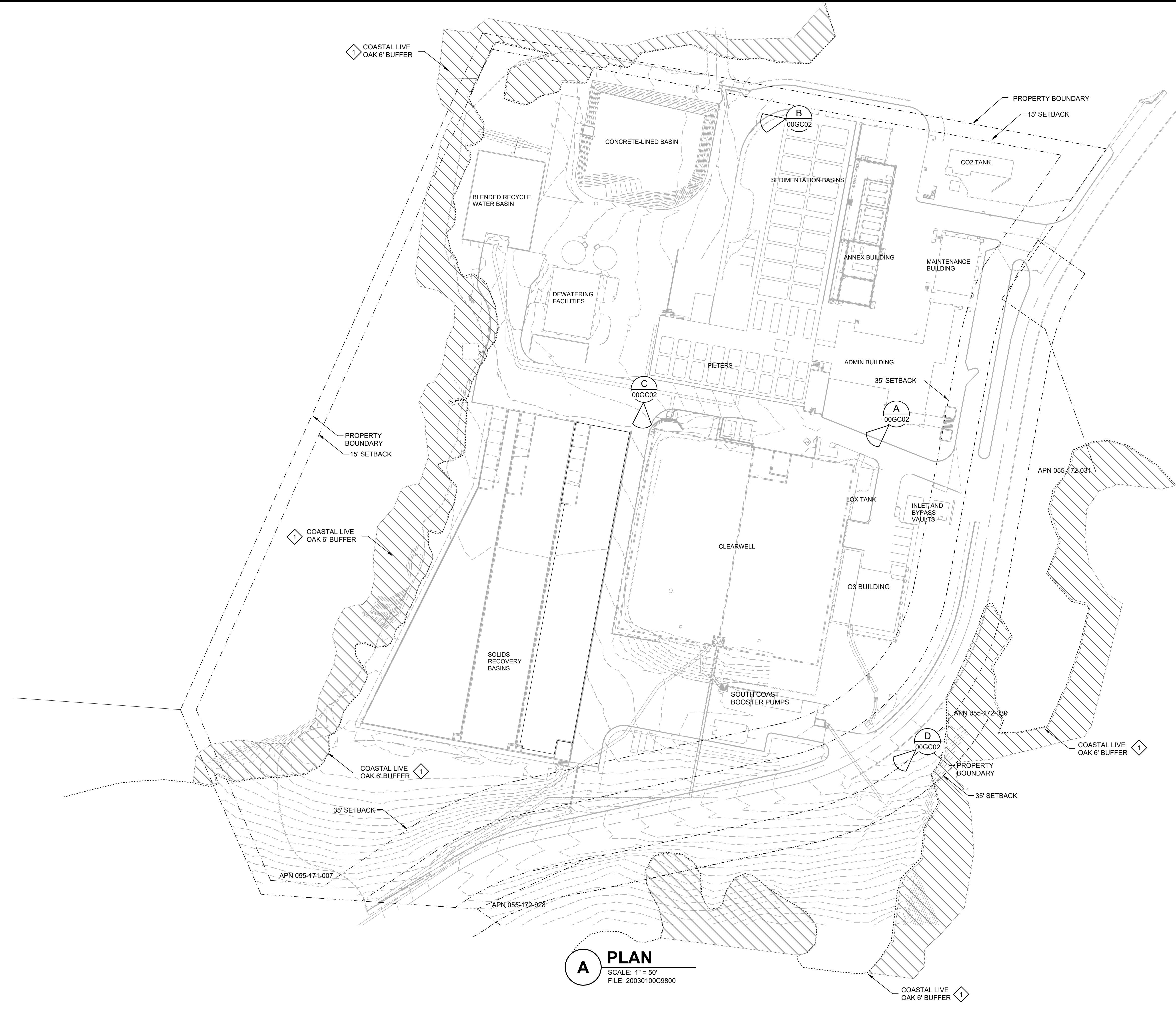
CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT EXISTING SITE

N/A PBW. NO. XXXX BID. NO. SHT. DES. 00GC01 DWG. NO. SHT. 12 OF XX

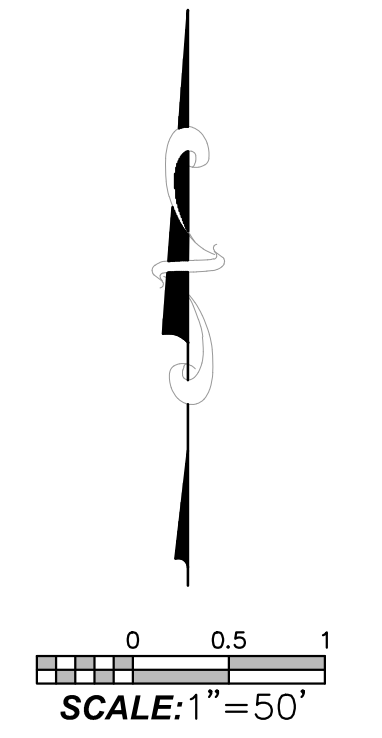
- GENERAL NOTES:**
- REFER TO SPECIFICATION 01140 FOR WORK RESTRICTIONS AND CONSTRUCTION SEQUENCING CONSTRAINTS.
  - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS.

- KEY NOTES:**
- THIS DRAWING SHOWS ENCROACHMENT TO THE 35-FOOT FRONT SETBACK FOR TEMPORARY STORAGE AND STAGING AND REQUIRES A FRONT SETBACK MODIFICATION.

- LEGEND**
- PROPERTY BOUNDARY
  - SETBACK LINE
  - COASTAL LIVE OAK 6' BUFFER



**A PLAN**  
 SCALE: 1" = 50'  
 FILE: 20030100C9800





**A**  
00GC01 EXISTING BURIED CLEARWELL



**B**  
00GC01 EXISTING CONCRETE-LINED SLUDGE DRYING BED



**C**  
00GC01 EXISTING ROADWAY ADJACENT TO CLEARWELL (TO BE REMOVED)



**D**  
00GC01 PROPOSED STAGING AREA



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H.C.C. \_\_\_\_\_  
DESIGN \_\_\_\_\_  
DRAWN \_\_\_\_\_  
CHECKED \_\_\_\_\_

DATE APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_

NO. \_\_\_\_\_  
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REVISIONS

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
SITE PHOTOS

N/A  
PBW. NO.

XXXX  
BID. NO. SHT. DES.

00GC02  
DWG. NO.

SHT. OF XX

PROJECT NO. 200301-100000 FILE NAME: 20030109S05.dgn  
LAST SAVED BY: R.Potesas



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LS: \_\_\_\_\_  
DESIGN: \_\_\_\_\_  
DRAWN: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
REDA: \_\_\_\_\_

DATE APPROVED: \_\_\_\_\_  
DATE DRAWN: \_\_\_\_\_  
DATE CHECKED: \_\_\_\_\_  
DATE REDA: \_\_\_\_\_

NO. \_\_\_\_\_

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NOT FOR  
CONSTRUCTION

NO. \_\_\_\_\_

REVISIONS

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
**PROPOSED SITE PLAN**

N/A  
PBW. NO.  
XXXX  
BID. NO. SHT. DES.  
**00GC03**  
DWG. NO.  
SHT. OF XX

**LEGEND**

---	PROPERTY BOUNDARY
- - - -	SETBACK LINE
----	FENCE
----	BURIED STRUCTURE
----	OVERHEAD POWER LINES
----	CONTRACTOR STAGING AREA
----	OHE
----	OHE

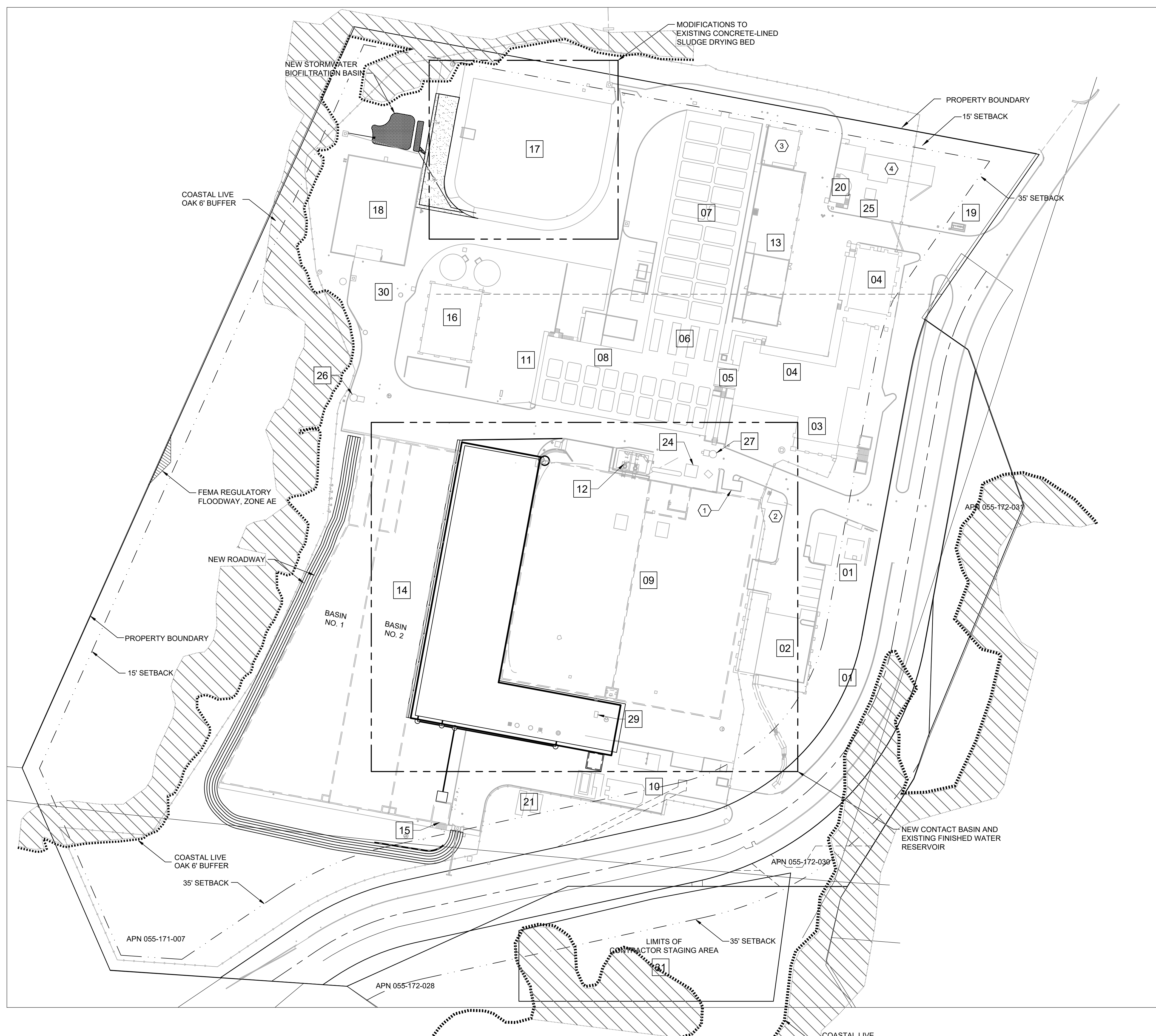
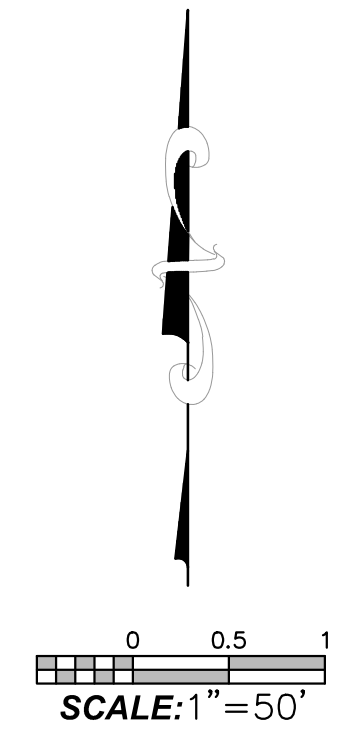
\* APPROXIMATE AREA OF NEW PAVEMENT AND REMOVAL/REPLACEMENT OF EXISTING PAVING. SEE CIVIL DRAWINGS FOR ACTUAL QUANTITIES.

**FACILITY INDEX**

01	INFLUENT METER VAULT AND PRESSURE REDUCING STATION - (EXISTING FACILITY - NO MODIFICATIONS)
02	OZONE FACILITY - (EXISTING FACILITY - NO MODIFICATIONS)
03	INLET CHANNEL AND AERATION BASINS - (EXISTING FACILITY - NO MODIFICATIONS)
04	HEADHOUSE/ADMIN BLDG - (EXISTING FACILITY - NO MODIFICATIONS)
05	RAPID AND FLASH MIX - (EXISTING FACILITY - NO MODIFICATIONS)
06	FLOCCULATION BASINS - (EXISTING FACILITY - NO MODIFICATIONS)
07	SEDIMENTATION BASINS - (EXISTING FACILITY - NO MODIFICATIONS)
08	FILTERS AND FILTER PIPE GALLERY - (EXISTING FACILITY - NO MODIFICATIONS)
09	FINISHED WATER CONTACT BASIN AND RESERVOIR (EXISTING FACILITY - TO BE MODIFIED)
10	BOOSTER PUMP STATION - (EXISTING FACILITY - NO MODIFICATIONS)
11	FILTER-TO-WASTE - (EXISTING FACILITY - NO MODIFICATIONS)
12	FILTER BACKWASH PUMP STATION - (EXISTING FACILITY - NO MODIFICATIONS)
13	OPERATIONS ANNEX - (EXISTING FACILITY - NO MODIFICATIONS)
14	SOLIDS RECOVERY BASINS (EXISTING FACILITY - TO BE MODIFIED)
15	SOLIDS RECOVERY PUMP STATION - (EXISTING FACILITY - NO MODIFICATIONS)
16	MECHANICAL DEWATERING - (EXISTING FACILITY - NO MODIFICATIONS)
17	CONCRETE-LINED SLUDGE DRYING BED (EXISTING FACILITY - TO BE MODIFIED)
18	RECLAIM BASIN AND BRW PUMP STATION - (EXISTING FACILITY - NO MODIFICATIONS)
19	PRV/DOUBLE CHECK VAULT - (EXISTING FACILITY - NO MODIFICATIONS)
20	PAC STORAGE AND FEED - (EXISTING FACILITY - NO MODIFICATIONS)
21	TESLA ENERGY STORAGE FACILITY (EXISTING FACILITY - NO MODIFICATIONS)
22	NOT USED
23	NOT USED
24	BACKWASH METER/ROF CONTROL VALVE VAULT - (EXISTING FACILITY - NO MODIFICATIONS)
25	TRANSFORMER - (EXISTING FACILITY - NO MODIFICATIONS)
26	SEWER/DECANT PUMP STATION (EXISTING FACILITY - NO MODIFICATIONS)
27	DRAIN/SUC PUMP STATION (EXISTING FACILITY - NO MODIFICATIONS)
28	NOT USED
29	EFFLUENT METER VAULTS (EXISTING FACILITY - TO BE MODIFIED)
30	SLUDGE TRANSFER PUMP STATION - (EXISTING FACILITY - NO MODIFICATIONS)
31	CONTRACTOR STAGING AREA - (USE OF THIS AREA IS CONTINGENT UPON ITS INCLUSION IN THE PREPARED AND APPROVED SWPPP)

**SUBORDINATE FACILITIES**

01	TRASH ENCLOSURE - (EXISTING FACILITY - NO MODIFICATIONS)
02	LOX STORAGE AREA (FACILITY 02) - (EXISTING FACILITY - NO MODIFICATIONS)
03	NEW CHEMICAL FEED AREA (FACILITY 13) - (EXISTING FACILITY - NO MODIFICATIONS)
04	CARBON DIOXIDE STORAGE AREA (FACILITY 13) - (EXISTING FACILITY - NO MODIFICATIONS)
05	PRESSURE REDUCING STATION - (EXISTING FACILITY - NO MODIFICATIONS)



**SITE AND FACILITY PLAN**  
SCALE: 1" = 50'  
FILE: 7372B10-00-010-911.dwg

Plot Date: 12/22/2023 9:23:17 AM

PROJECT NO. 200301-100000 FILE NAME: 200301G05.dwg

LAST SAVED BY: Bberg



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ENGINEERING DIVISION

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L.S. CW  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

DESIGN \_\_\_\_\_  
DRAWN \_\_\_\_\_  
CHECKED \_\_\_\_\_

DATE APPROVED \_\_\_\_\_

NO. \_\_\_\_\_  
60% SUBMITTAL  
NOT FOR  
CONSTRUCTION

REVISIONS

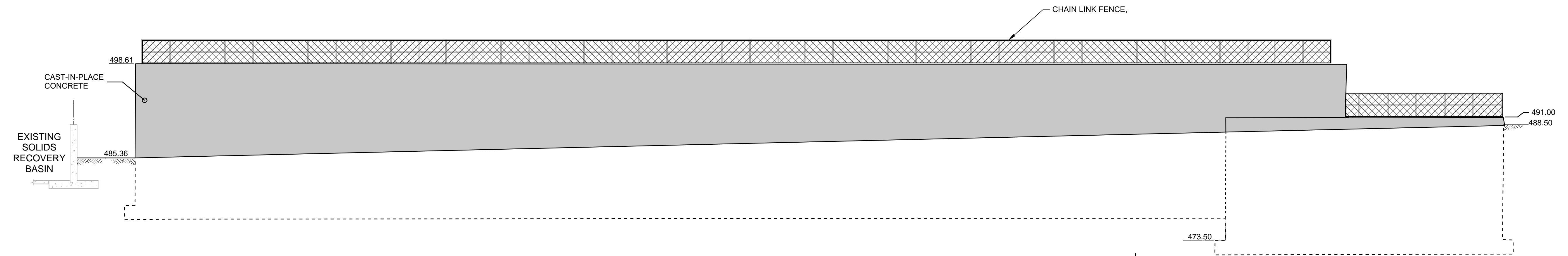
CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
**CHLORINE CONTACT BASIN**  
ELEVATIONS

N/A  
PBW. NO.

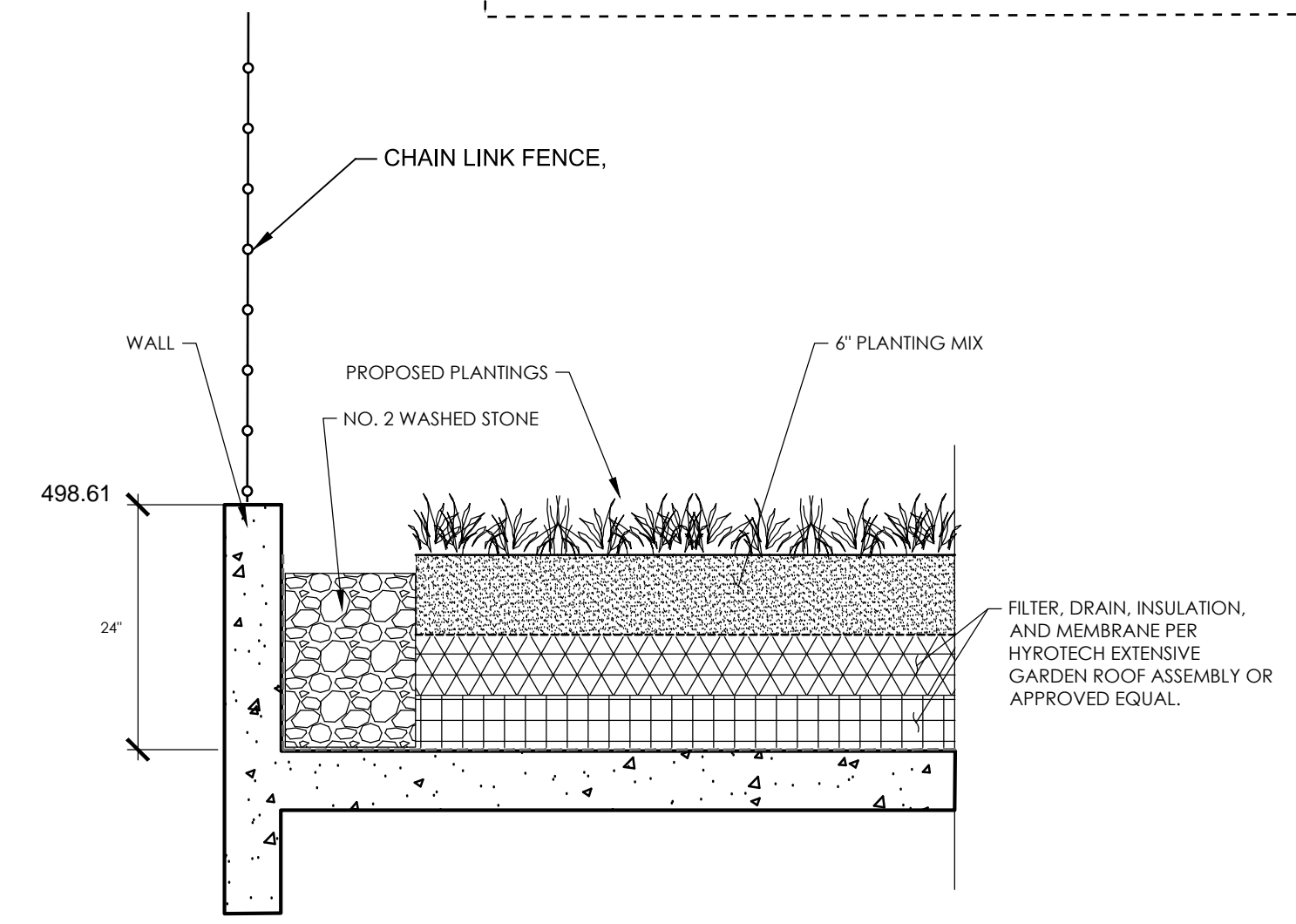
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BID. NO. SHT. DES.

00GC04  
DWG. NO.

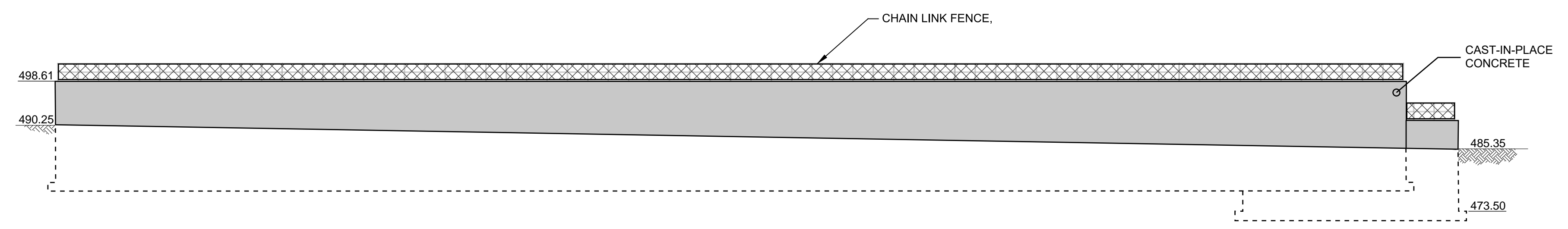
SHT. OF XX



**A SOUTH ELEVATION**  
SCALE: 1/8" = 1'



**6 PRELIMINARY GREEN ROOF CROSS SECTION**  
SCALE: NTS



**B WEST ELEVATION**  
SCALE: 1/16" = 1'

PROJECT NO. 200301-100000 FILE NAME: 20030109S05.dgn  
LAST SAVED BY: R.Potesias



PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

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LS, CW  
CITY ENGINEER ORIGINAL SIGNED DATE DATE

DESIGN DRAWN CHECKED

DATE	APPROVED	NO.	REVISIONS

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
**PERSPECTIVE RENDERING NO. 1**

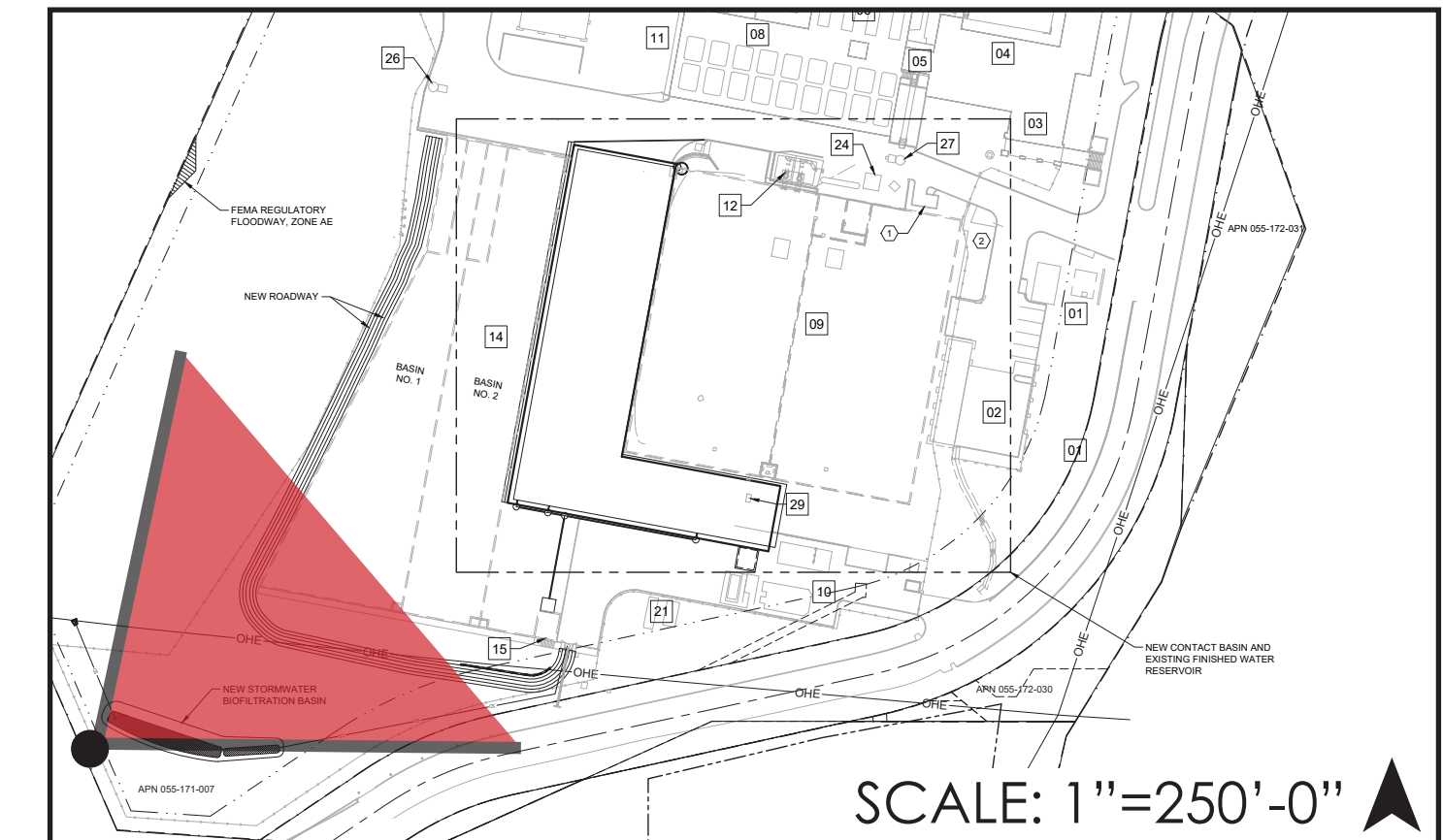
N/A  
PBW. NO.  
XXXX  
BID. NO. SHT. DES.  
00GC05  
DWG. NO.  
SHT. OF XX



BEFORE



AFTER

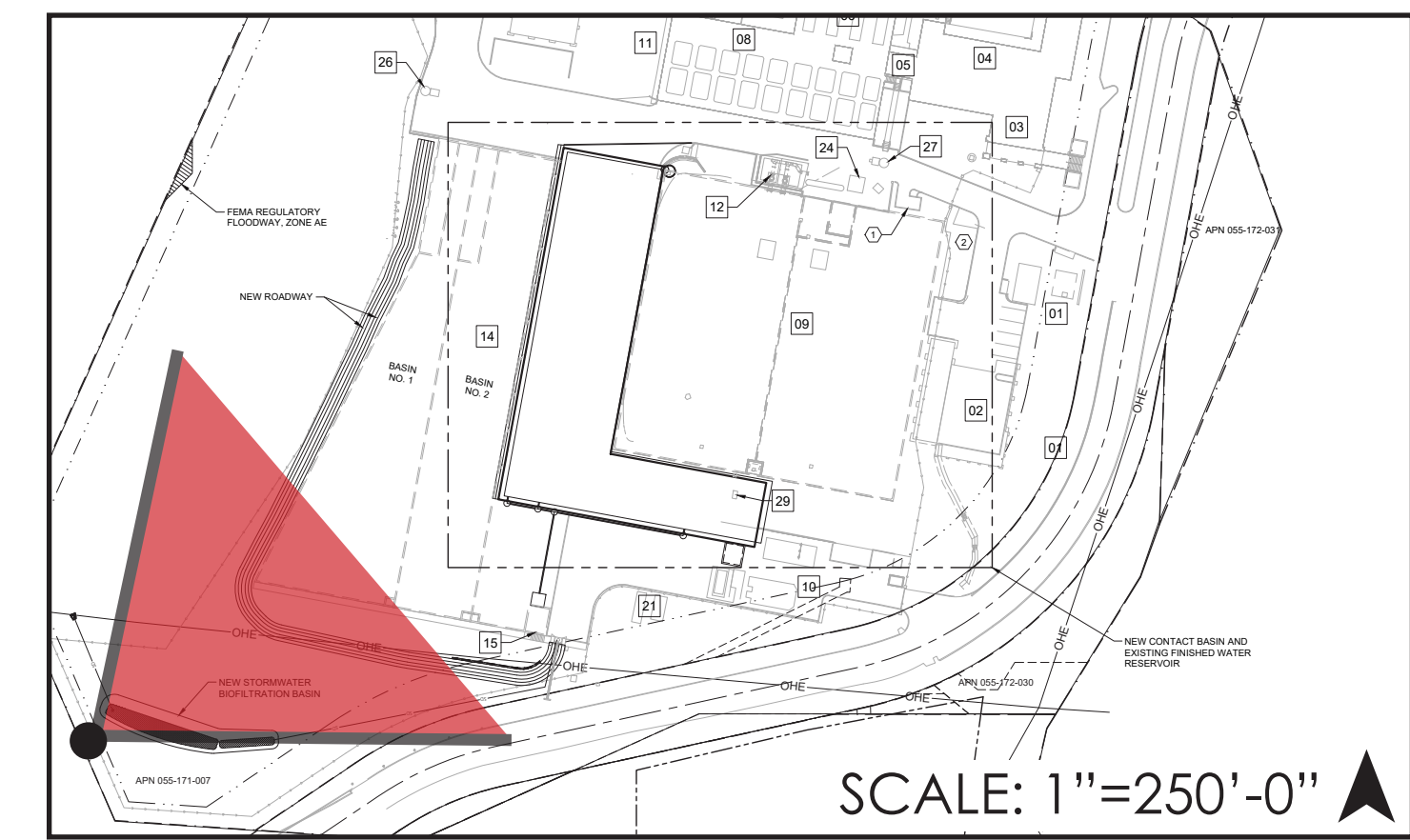




BEFORE



AFTER



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APPROVED: CS  
LS, CW  
DATE

CITY ENGINEER ORIGINAL SIGNED DATE

DESIGN DRAWN  
CHECKED

NO.	DATE	APPROVED

REVISIONS

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
PERSPECTIVE RENDERING NO. 2

N/A  
PBW. NO.

XXXX  
BID. NO. SHT. DES.

00GC06  
DWG. NO.

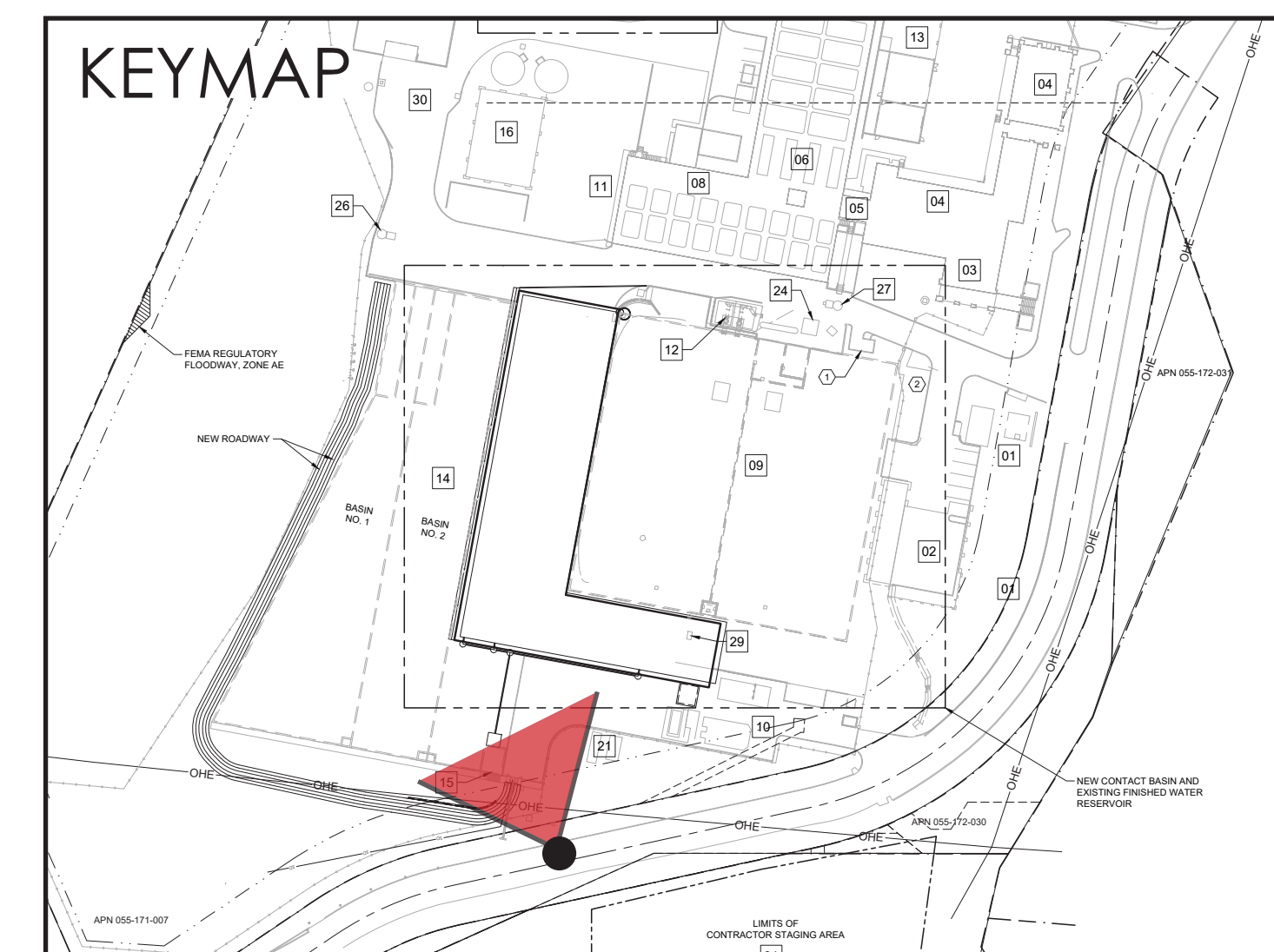
SHT. OF XX



BEFORE



AFTER



SCALE: 1"=250'-0" ▲



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APPROVED: \_\_\_\_\_  
LS, CW  
CITY ENGINEER  
ORIGINAL SIGNED DATE \_\_\_\_\_ DATE \_\_\_\_\_

DESIGN DRAWN \_\_\_\_\_  
CHECKED \_\_\_\_\_

DATE	APPROVED

NO.	REVISIONS

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
**PERSPECTIVE RENDERING NO. 3**

N/A  
PBW. NO.  
XXXX  
BID. NO. SHT. DES.  
00GC07  
DWG. NO.  
SHT. OF XX





PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE

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CHECKED \_\_\_\_\_

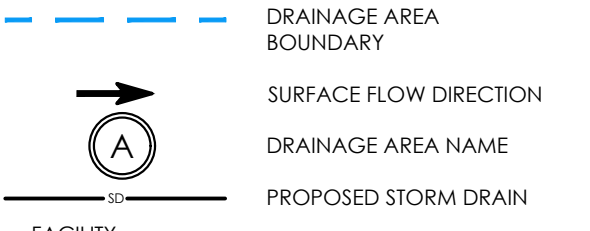
DATE APPROVED \_\_\_\_\_

NO. \_\_\_\_\_  
60% SUBMITTAL NOT FOR CONSTRUCTION REVISIONS

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
STORMWATER CONTROL PLAN AND DETAILS

N/A  
PBW. NO.  
XXXX  
BID. NO. SHT. DES.  
00GC08  
DWG. NO.  
SHT. OF XX

### LEGEND



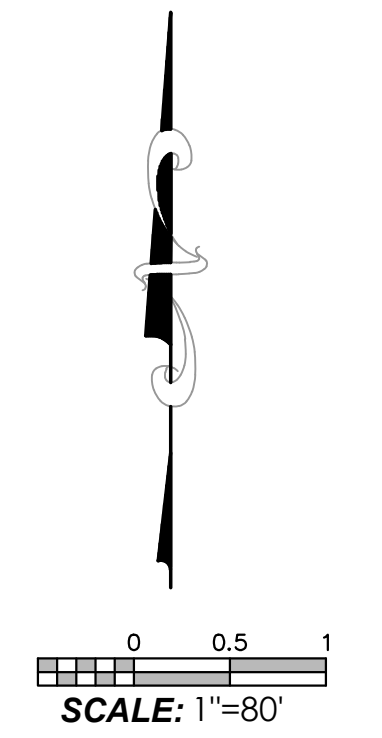
DESIGNATION	FACILITY
[Pink Box]	REPLACED PERVIOUS AREA - GREEN ROOF
[Grey Box]	REPLACED IMPERVIOUS AREA - PARKING/PAVEMENT
[Cyan Box]	REPLACED PERVIOUS AREA - RIBBON DRIVEWAY
[Green Box]	REPLACED PERVIOUS AREA - LANDSCAPING/GREEN ROOF
[Blue Box]	REPLACED PERVIOUS AREA - PERVIOUS PAVEMENT
[Dark Blue Box]	REPLACED IMPERVIOUS AREA - PERVIOUS PAVEMENT
[Purple Box]	PROPOSED IMPERVIOUS AREA - CHARGING STATION
[Light Green Box]	PROPOSED BIORETENTION BASIN
[Cross-hatched Box]	EXISTING PERVIOUS AREA - GREEN ROOF
[Light Grey Box]	EXISTING IMPERVIOUS AREA
[Yellow Box]	EXISTING PERVIOUS AREA - LANDSCAPING
[Orange Box]	EXISTING PERVIOUS AREA - BASIN

#### STORM WATER QUALITY

DRAINAGE AREA	TREATMENT BMP	PROVIDED TREATMENT	REQUIRED TREATMENT
A	PERVIOUS PAVEMENT	9,077 SF	9,077 SF
B	PERVIOUS RIBBON DWY	7,645 SF	4,531 SF
C	PROPOSED SELF TREATING AREA	36,161 SF	N/A - SELF TREATING AREA
D	BIORETENTION BASIN	1,030 SF	1,029 SF
D	PERMEABLE PAVEMENT	2,721 SF	2,721 SF

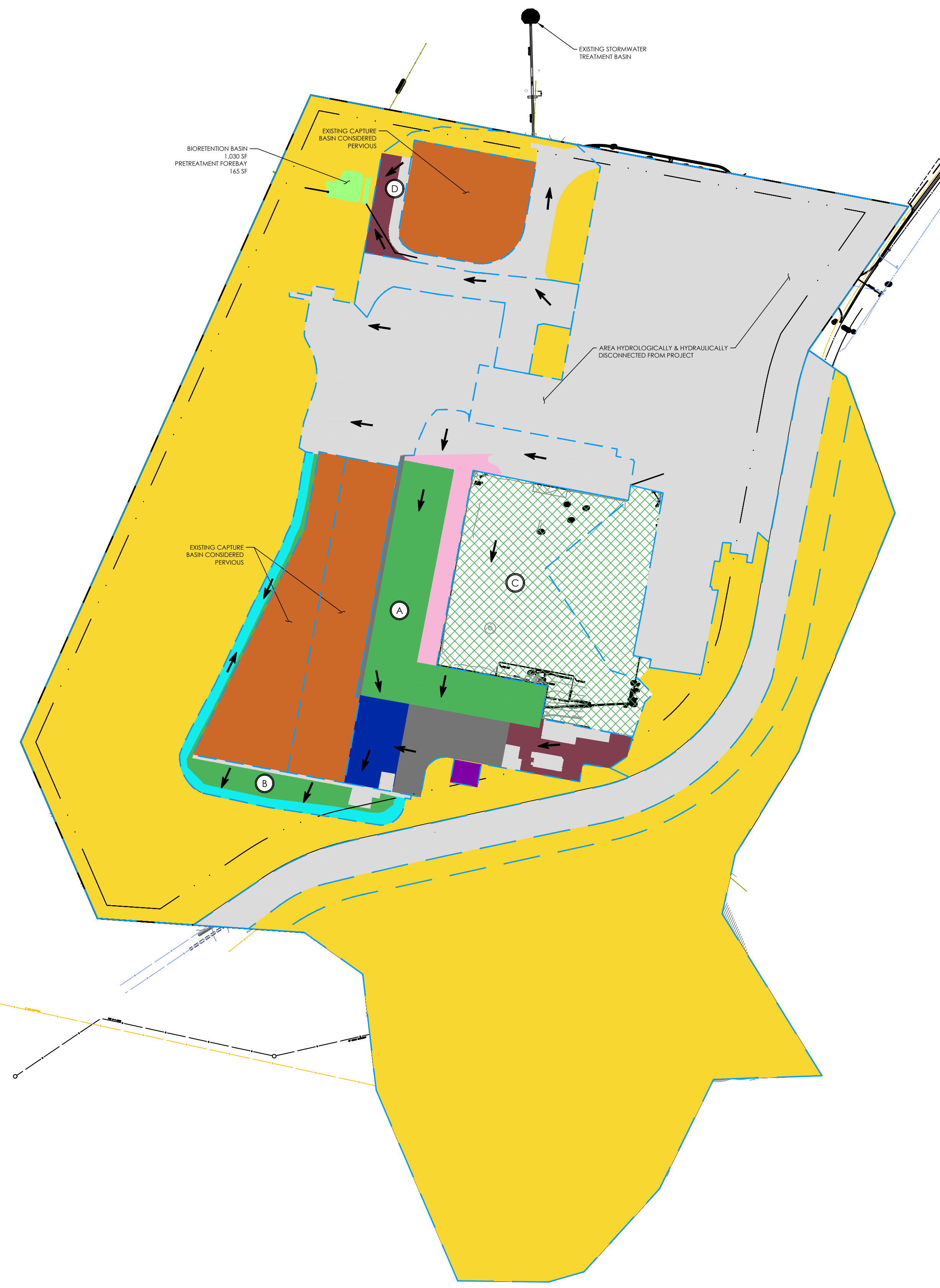
LOT COVERAGE	EXISTING SF [% OF TOTAL]	PROPOSED SF [% OF TOTAL]
BUILDING FOOTPRINT(S)	140,916 [18%]	140,916 [18%]
IMPERMEABLE SURFACES	140,278 [18%]	118,961 [16%]
PERMEABLE SURFACES	485,079 [63%]	506,396 [66%]
TOTAL:	766,273	766,273

- #### GENERAL NOTES:
- SEE "FINAL DRAINAGE ANALYSIS," DATED 06/15/2010, BY FLOWERS & ASSOCIATES, INC. FOR PREVIOUSLY APPROVED HYDROLOGY AND STORMWATER CALCULATIONS FOR EXISTING CATER FINISHED WATER RESERVOIR PARCEL.
  - PARCEL GEOTECHNICAL INFORMATION PROVIDED IN THE GEOTECHNICAL REPORT TITLED "GEOTECHNICAL ENGINEERING REPORT CATER WATER FILTRATION PLANT IMPROVEMENTS CITY OF SANTA BARBARA, CALIFORNIA," DATED SEPTEMBER 2001 BY FUGRO WEST, INC.



**A** EXISTING  
SCALE: 1"=75'  
FILE:

**B** PROPOSED  
SCALE: 1"=75'  
FILE:



PROPERTY LINES ARE APPROXIMATE



Know what's below.  
Call before you dig.

PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



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L.S. CW  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

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CHECKED \_\_\_\_\_

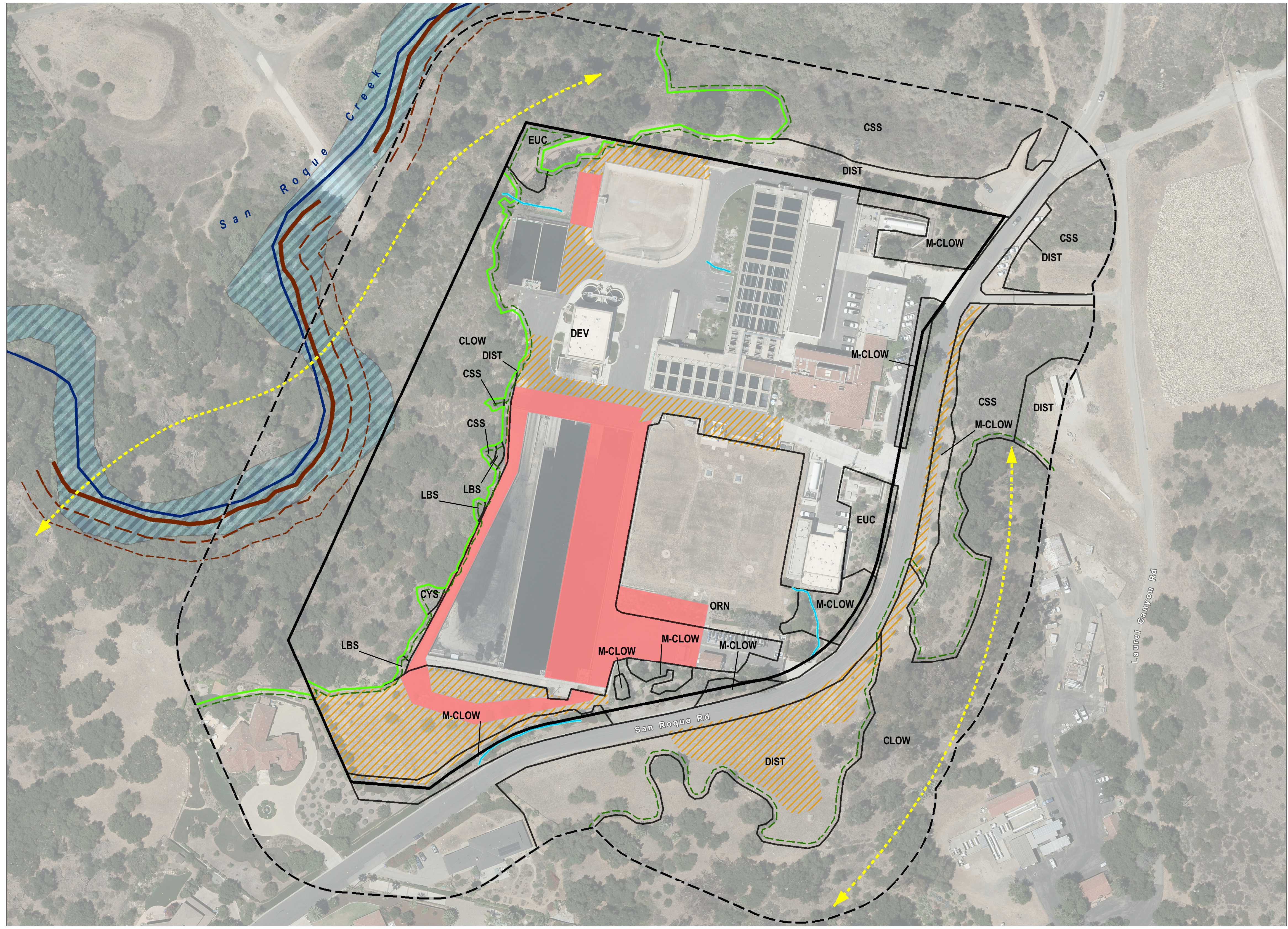
DATE APPROVED \_\_\_\_\_  
NO. \_\_\_\_\_

NO.	DATE	APPROVED	REVISIONS

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
IMPACTS TO BIOLOGICAL RESOURCES

N/A  
PBW. NO.  
XXXX  
BID. NO. SHT. DES.  
00GC09  
DWG. NO.  
SHT. OF XX

- Project Boundary
- Survey Area
- Vegetation Communities and Land Cover Types**
  - CLOW - Coast Live Oak Woodland Alliance
  - CSS - California Sagebrush Scrub
  - CYS - Coyote Brush Scrub
  - SYC - California Sycamore Woodlands Alliance
  - LBS - Lemonade Berry Scrub
  - EUC - Eucalyptus
  - M-CLOW - Planted and Maintained Coast Live Oak Woodland
  - ORN - Parks and Ornamental Plantings
  - DIST - Disturbed Habitat
  - DEV - Developed
- Aquatic Resources**
  - Swale
  - San Roque Creek\*
    - San Roque Creek corridor is associated with City of Santa Barbara Potential Steelhead and Tidewater Goby Habitat, Riparian Bird Habitat, as well as USFWS Steelhead Critical Habitat
  - Top of Bank
  - Top of Bank 25' Buffer
  - Top of Bank 50' Buffer
  - Edge of Riparian
- FEMA Flood Zones**
  - 100-year Flood Zone
- Sensitive Habitat Buffers**
  - Coast Live Oak Woodland 6'-buffer
  - Wildlife Movement Corridors as identified by City of Santa Barbara
- Approximate Project Impacts**
  - Permanent Impact
  - Temporary Impact



Plot Date: 12/22/2023 7:47:59 AM



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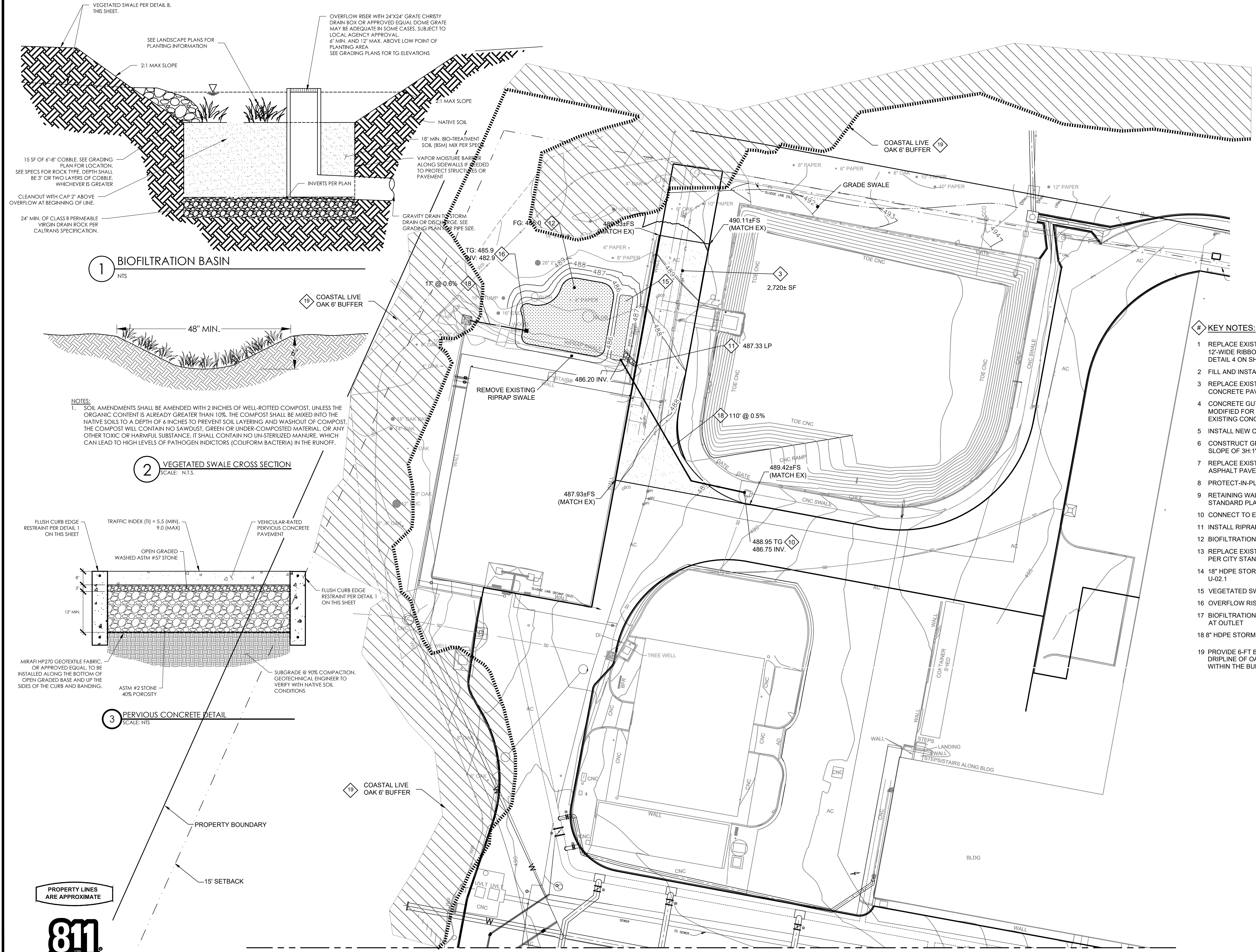
APPROVED: LS, CW  
DATE  
CITY ENGINEER ORIGINAL SIGNED DATE

DESIGN DRAWN CHECKED  
DATE APPROVED

NO. DATE APPROVED  
60% SUBMITTAL  
NOT FOR CONSTRUCTION  
REVISIONS

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
PAVING AND GRADING - AREA 1

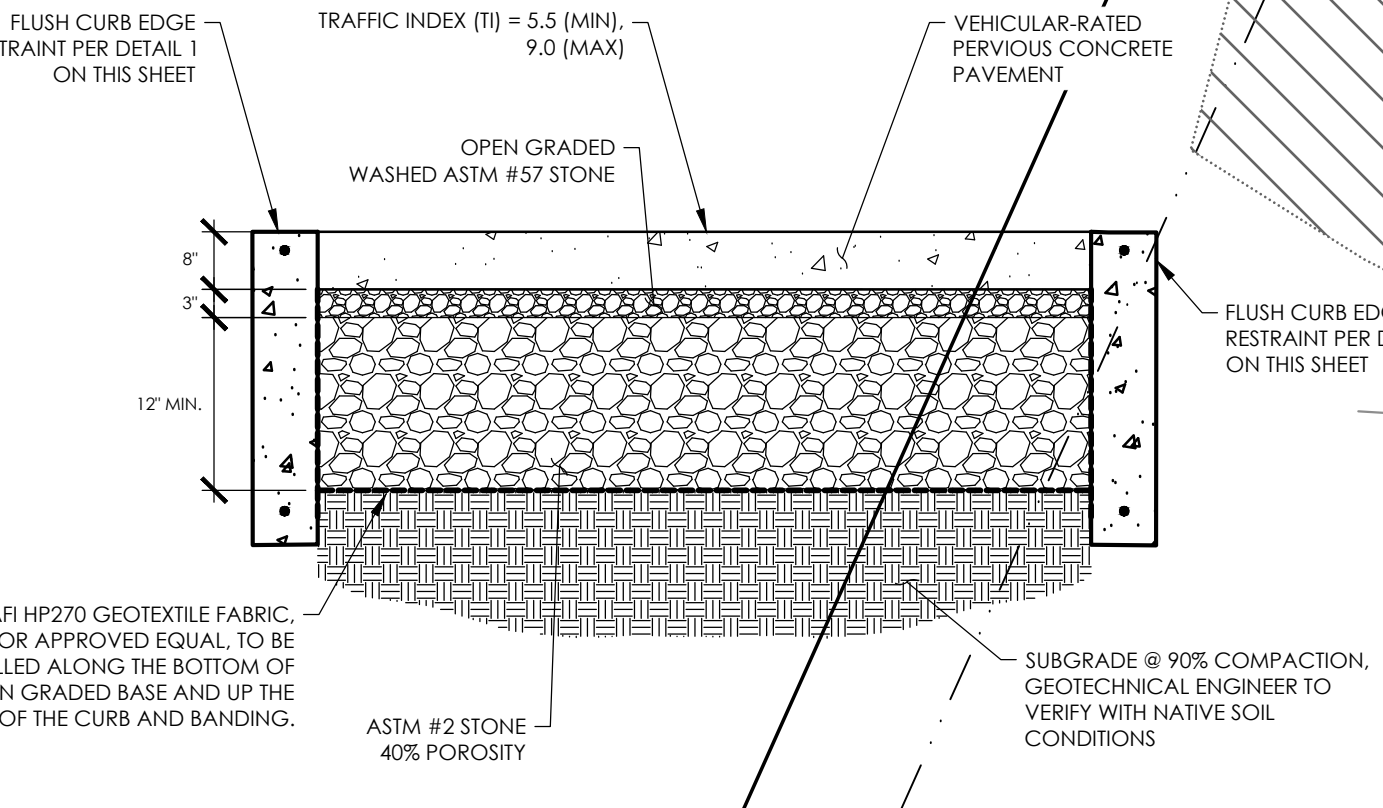
N/A PBW. NO.  
XXXX BID. NO. SHT. DES.  
00C06 DWG. NO.  
SHT. OF XX



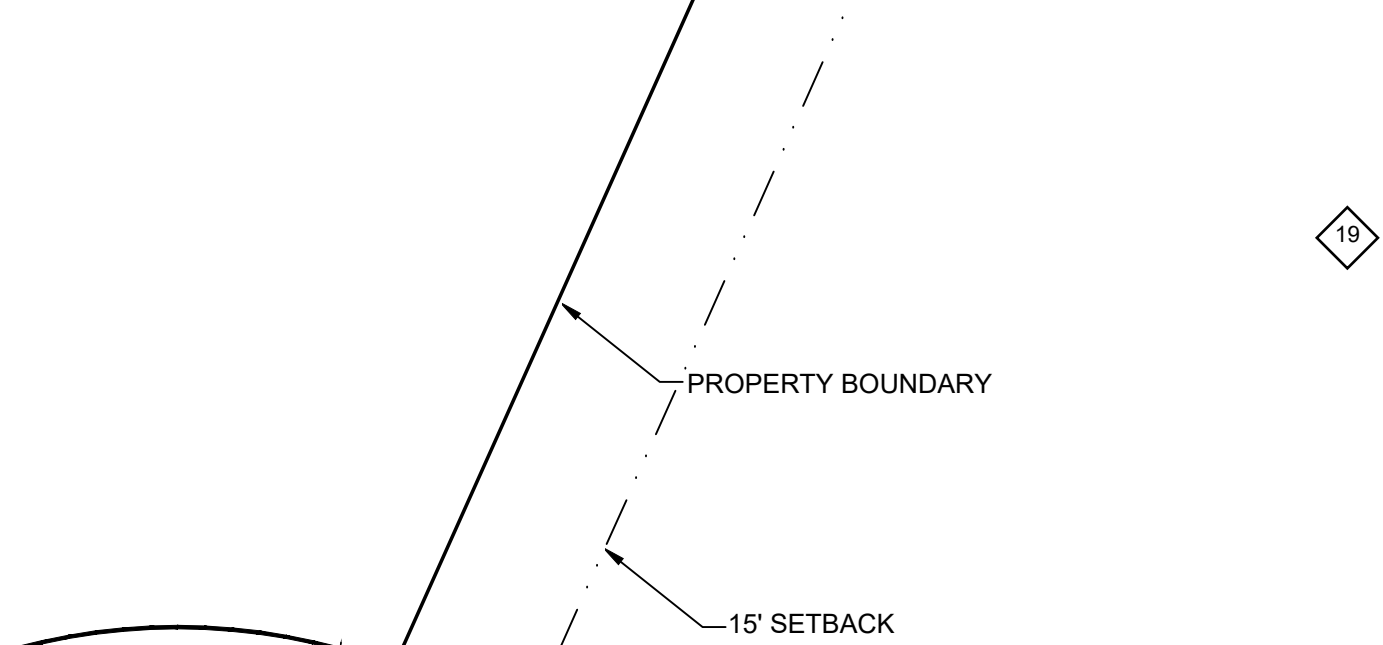
KEY NOTES:

- 1 REPLACE EXISTING GRAVEL ACCESS ROAD WITH 12'-WIDE RIBBON DRIVEWAY TYPE ACCESS ROAD PER DETAIL 4 ON SHEET 00C07
- 2 FILL AND INSTALL AC PAVEMENT (TI=6, 3" AC ON 5.5" AB)
- 3 REPLACE EXISTING AC PAVEMENT WITH PERVIOUS CONCRETE PAVEMENT PER DETAIL 3 ON SHEET 00C06
- 4 CONCRETE GUTTER PER CITY STANDARD DETAIL H-05.0, MODIFIED FOR INSTALLATION BETWEEN PROPOSED AND EXISTING CONCRETE WALLS.
- 5 INSTALL NEW CURB PER CITY STANDARD DETAIL H-02.0
- 6 CONSTRUCT GRADED GRASS SLOPE WITH MAXIMUM SLOPE OF 3H:1V.
- 7 REPLACE EXISTING AC PAVEMENT WITH PERVIOUS ASPHALT PAVEMENT PER DETAIL 5 ON SHEET 00C07
- 8 PROTECT-IN-PLACE EXISTING POWER POLE
- 9 RETAINING WALL TYPE 1A CASE 2 PER CALTRANS STANDARD PLAN B3-3B
- 10 CONNECT TO EXISTING CATCH BASIN
- 11 INSTALL RIPRAP OVERFLOW
- 12 BIOFILTRATION BASIN, SEE DETAIL 1 ON SHEET C-060.
- 13 REPLACE EXISTING STORM DRAIN WITH 18" HDPE PIPE PER CITY STANDARD DETAIL U-02.1
- 14 18" HDPE STORM DRAIN PER CITY STANDARD DETAIL U-02.1
- 15 VEGETATED SWALE PER DETAIL 2 ON SHEET C-060
- 16 OVERFLOW RISER, SEE DETAIL 1 ON SHEET C-060
- 17 BIOFILTRATION OUTLET PIPE WITH ENERGY DISSIPATION AT OUTLET
- 18 8" HDPE STORM DRAIN PER CITY STANDARD DETAIL U-02.1
- 19 PROVIDE 6-FT BUFFER FROM OUTER EDGE OF DRIPLINE OF OAK TREES. NO WORK SHALL BE DONE WITHIN THE BUFFER.

NOTES:  
1. SOIL AMENDMENTS SHALL BE AMENDED WITH 2 INCHES OF WELL-ROTTED COMPOST, UNLESS THE ORGANIC CONTENT IS ALREADY GREATER THAN 10%. THE COMPOST SHALL BE MIXED INTO THE NATIVE SOILS TO A DEPTH OF 6 INCHES TO PREVENT SOIL LAYERING AND WASHOUT OF COMPOST. THE COMPOST WILL CONTAIN NO SAWDUST, GREEN OR UNDER-COMPOSTED MATERIAL, OR ANY OTHER TOXIC OR HARMFUL SUBSTANCE. IT SHALL CONTAIN NO UN-STERILIZED MANURE, WHICH CAN LEAD TO HIGH LEVELS OF PATHOGEN INDICATORS (COLIFORM BACTERIA) IN THE RUNOFF.



PERVIOUS CONCRETE DETAIL  
SCALE: N.T.S.



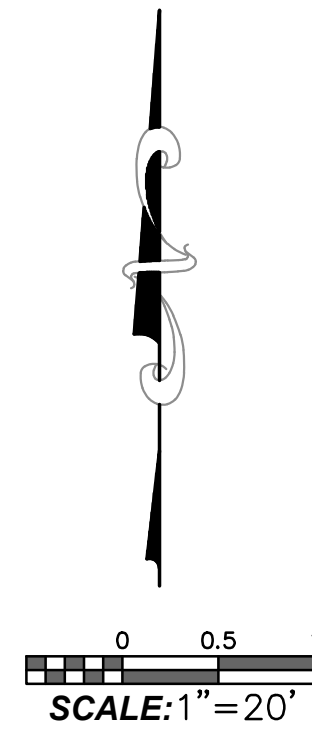
BIOFILTRATION BASIN  
NTS

VEGETATED SWALE CROSS SECTION  
SCALE: N.T.S.

PROPERTY LINES ARE APPROXIMATE

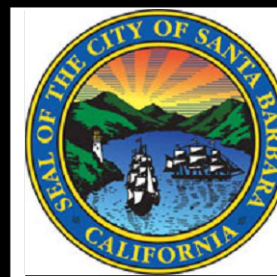


A PLAN  
SCALE: 1"=20'  
FILE:  
MATCH LINE SEE SHEET 00C07



PROJECT ENGINEER DATE

Plot Date: 12/22/2023 7:46:59 AM



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: L.S. CW  
CITY ENGINEER  
DATE  
ORIGINAL SIGNED DATE

DESIGN  
DRAWN  
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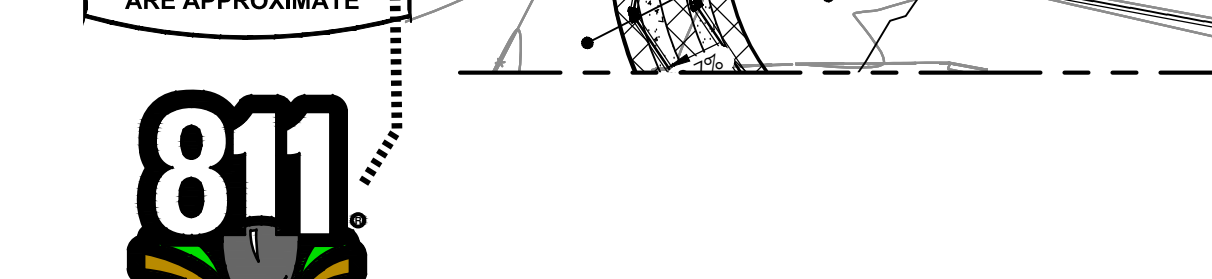
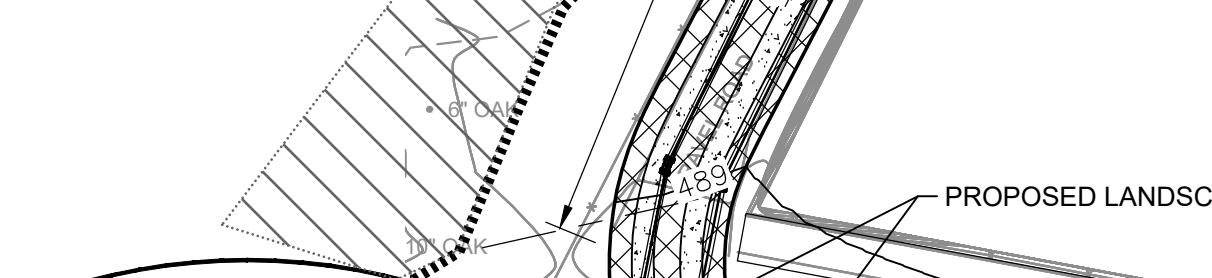
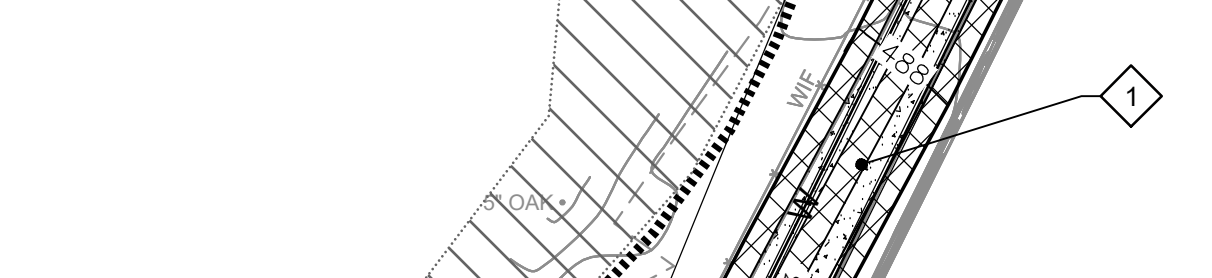
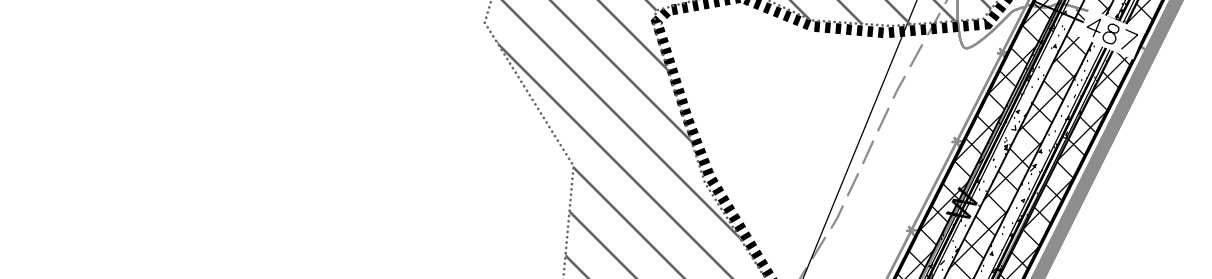
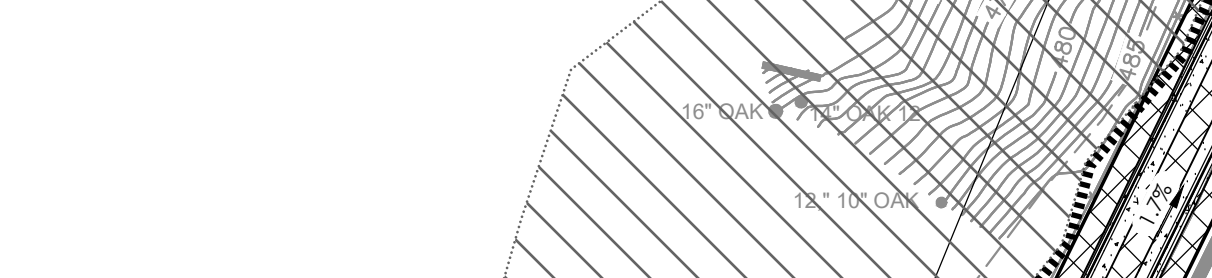
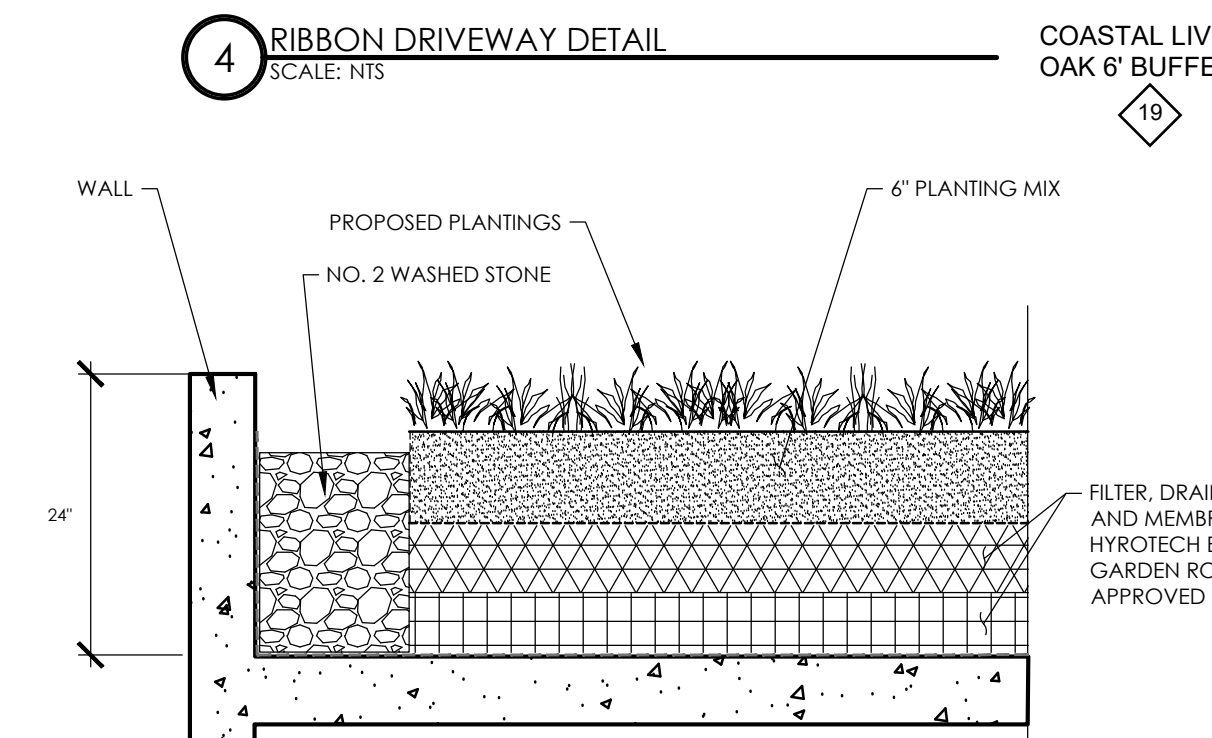
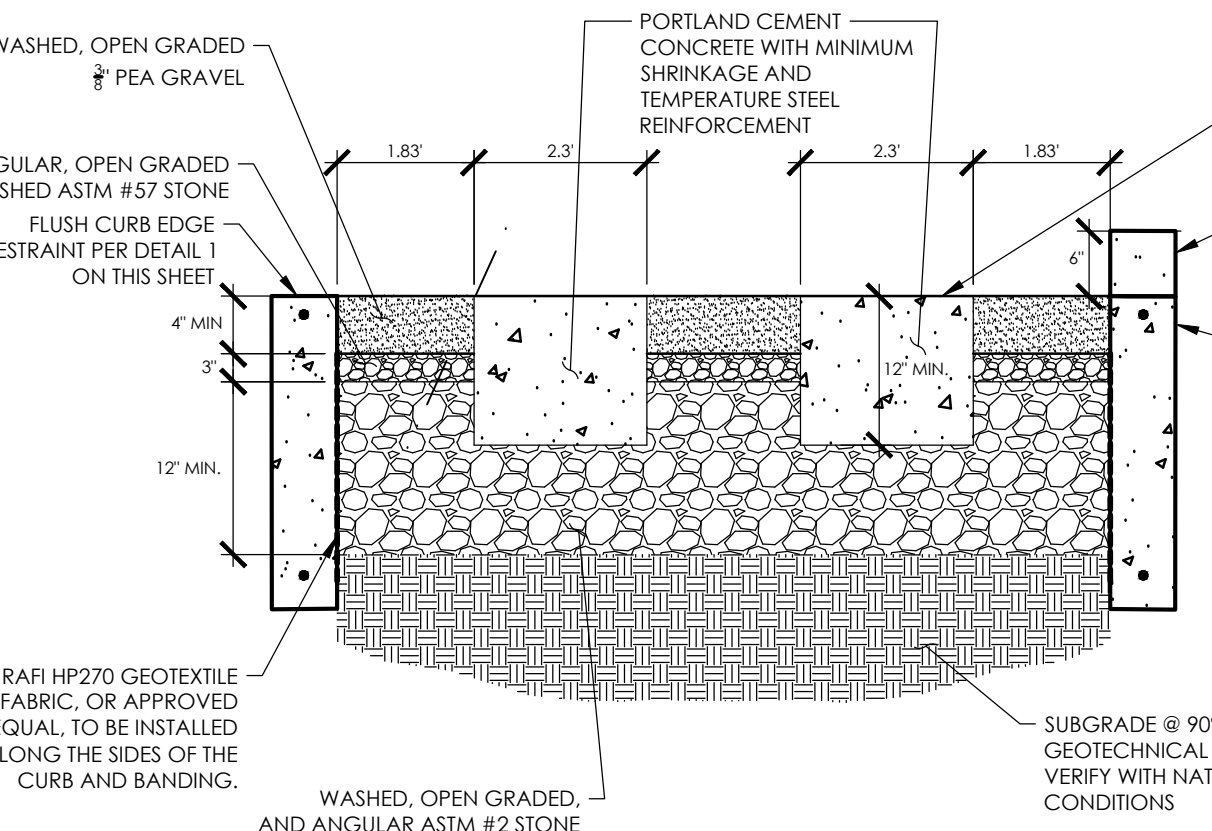
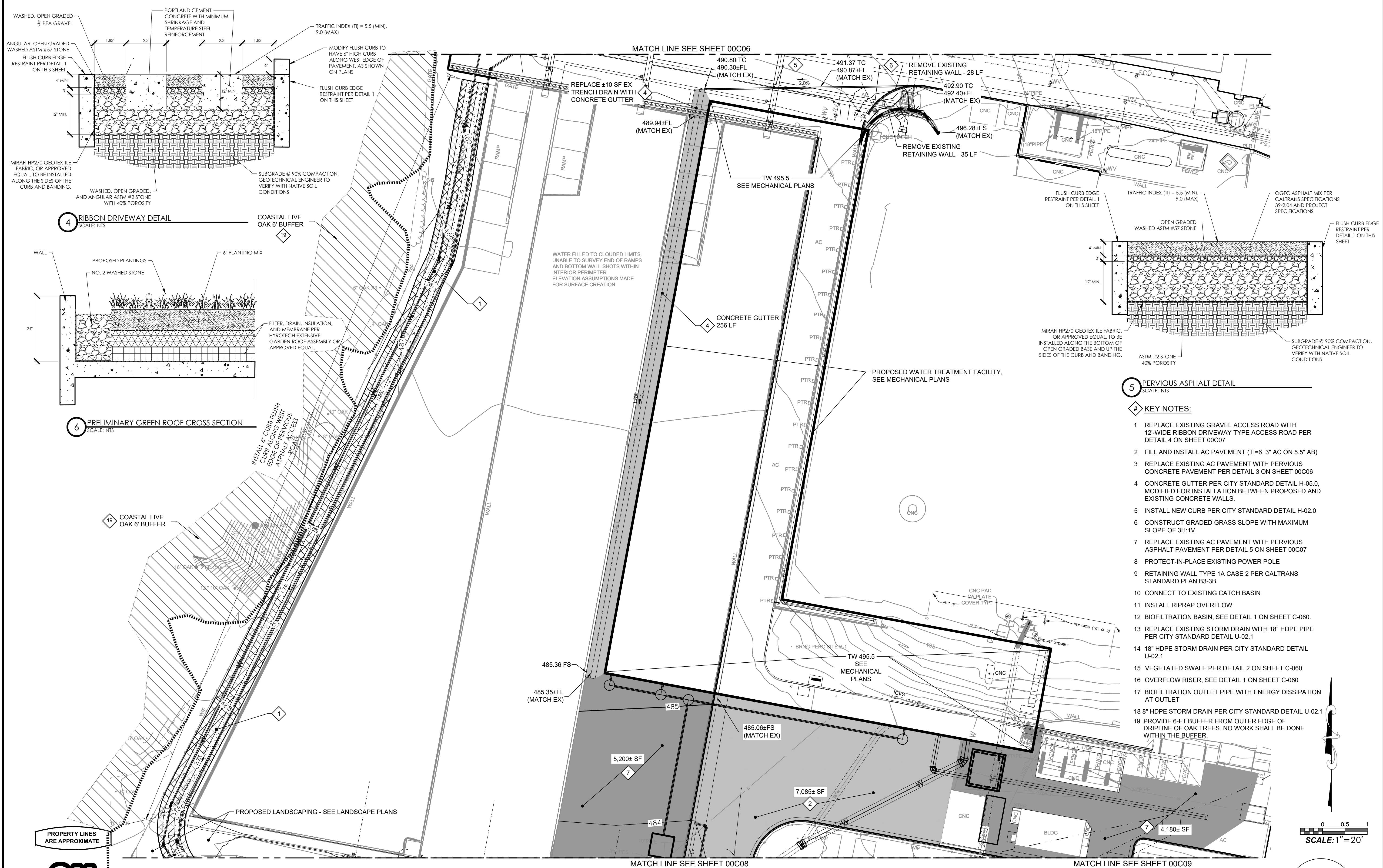
DATE APPROVED

NO. 60% SUBMITAL  
NOT FOR  
CONSTRUCTION

REVISIONS

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
PAVING AND GRADING - AREA 2

N/A  
PBW. NO.  
XXXX  
BID. NO. SHT. DES.  
00C07  
DWG. NO.  
SHT. OF XX



811  
Know what's below.  
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A PLAN  
SCALE: 1"=20'  
FILE:

PROJECT ENGINEER DATE

Plot Date: 12/22/2023 7:52:39 AM



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APPROVED: \_\_\_\_\_  
LS, CW, \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

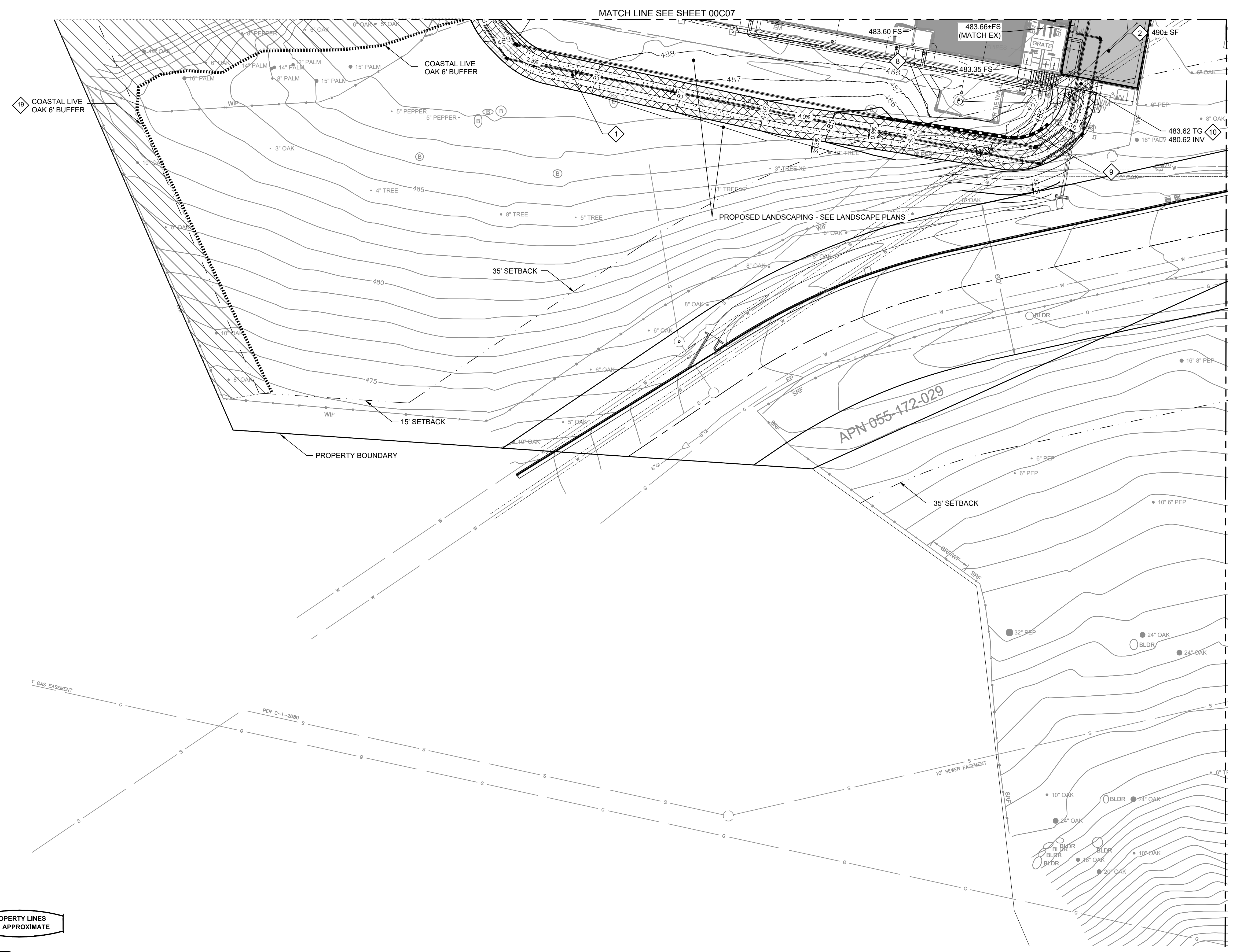
DATE	APPROVED	DESIGN	DRAWN	CHECKED

60% SUBMITTAL  
NOT FOR  
CONSTRUCTION

REVISIONS

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
PAVING AND GRADING - AREA 3

N/A  
PBW. NO.  
XXXX  
BID. NO. SHT. DES.  
00C08  
DWG. NO.  
SHT. OF XX



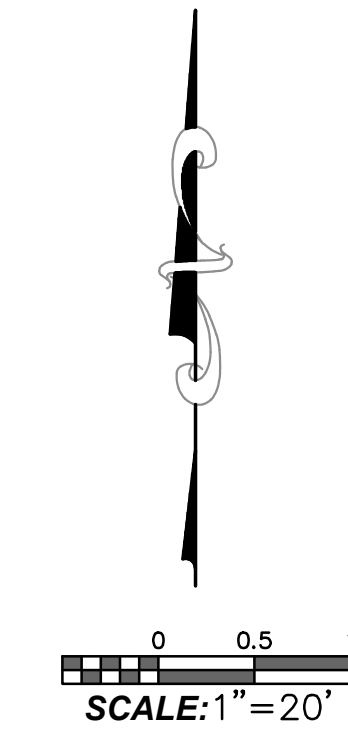
- # KEY NOTES:
- 1 REPLACE EXISTING GRAVEL ACCESS ROAD WITH 12'-WIDE RIBBON DRIVEWAY TYPE ACCESS ROAD PER DETAIL 4 ON SHEET 00C07
  - 2 FILL AND INSTALL AC PAVEMENT (TI=6, 3" AC ON 5.5" AB)
  - 3 REPLACE EXISTING AC PAVEMENT WITH PERVIOUS CONCRETE PAVEMENT PER DETAIL 3 ON SHEET 00C06
  - 4 CONCRETE GUTTER PER CITY STANDARD DETAIL H-05.0, MODIFIED FOR INSTALLATION BETWEEN PROPOSED AND EXISTING CONCRETE WALLS.
  - 5 INSTALL NEW CURB PER CITY STANDARD DETAIL H-02.0
  - 6 CONSTRUCT GRADED GRASS SLOPE WITH MAXIMUM SLOPE OF 3H:1V.
  - 7 REPLACE EXISTING AC PAVEMENT WITH PERVIOUS ASPHALT PAVEMENT PER DETAIL 5 ON SHEET 00C07
  - 8 PROTECT-IN-PLACE EXISTING POWER POLE
  - 9 RETAINING WALL TYPE 1A CASE 2 PER CALTRANS STANDARD PLAN B3-3B
  - 10 CONNECT TO EXISTING CATCH BASIN
  - 11 INSTALL RIPRAP OVERFLOW
  - 12 BIOFILTRATION BASIN, SEE DETAIL 1 ON SHEET C-060.
  - 13 REPLACE EXISTING STORM DRAIN WITH 18" HDPE PIPE PER CITY STANDARD DETAIL U-02.1
  - 14 18" HDPE STORM DRAIN PER CITY STANDARD DETAIL U-02.1
  - 15 VEGETATED SWALE PER DETAIL 2 ON SHEET C-060
  - 16 OVERFLOW RISER, SEE DETAIL 1 ON SHEET C-060
  - 17 BIOFILTRATION OUTLET PIPE WITH ENERGY DISSIPATION AT OUTLET
  - 18 8" HDPE STORM DRAIN PER CITY STANDARD DETAIL U-02.1
  - 19 PROVIDE 6-FT BUFFER FROM OUTER EDGE OF DRIPLINE OF OAK TREES. NO WORK SHALL BE DONE WITHIN THE BUFFER.

PROPERTY LINES ARE APPROXIMATE



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A PLAN  
SCALE: 1"=20'  
FILE:



PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

Plot Date: 12/22/2023 7:51:09 AM



**GENERAL NOTES:**

- 1 THIS DRAWING SHOWS ENCROACHMENT TO THE 35-FOOT FRONT SETBACK FOR TEMPORARY STORAGE AND STAGING AND REQUIRES A FRONT SETBACK MODIFICATION.

**KEY NOTES:**

- 1 REPLACE EXISTING GRAVEL ACCESS ROAD WITH 12'-WIDE RIBBON DRIVEWAY TYPE ACCESS ROAD PER DETAIL 4 ON SHEET 00C07
- 2 FILL AND INSTALL AC PAVEMENT (TI=6, 3" AC ON 5.5" AB)
- 3 REPLACE EXISTING AC PAVEMENT WITH PERVIOUS CONCRETE PAVEMENT PER DETAIL 3 ON SHEET 00C06
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MATCH LINE SEE SHEET 00C08

MATCH LINE SEE SHEET 00C07

MODIFICATION REQUESTED TO ALLOW ENCROACHMENT INTO REQUIRED SETBACK AREA PER GENERAL NOTE 1.

35' SETBACK

CONTRACTOR STAGING AREA  
INSTALL SIGNAGE AND FIBER ROLLS

COASTAL LIVE OAK 6' BUFFER

COASTAL LIVE OAK 6' BUFFER

APN 055-172-028

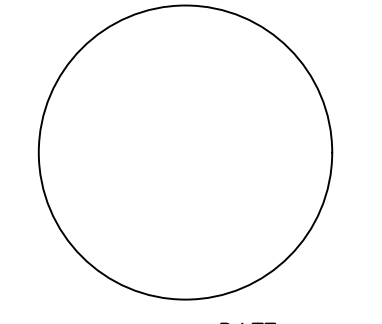
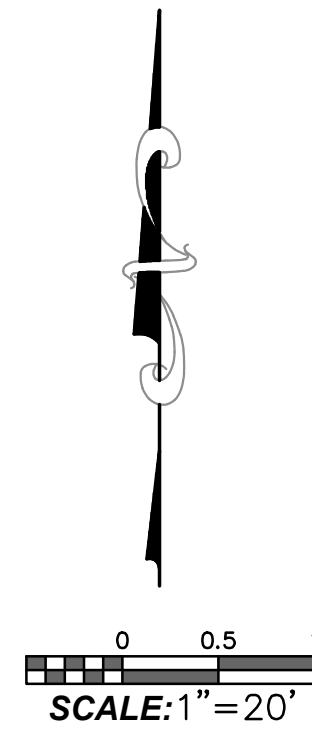
APN 055-172-030

PROPERTY LINES ARE APPROXIMATE




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**A PLAN**  
SCALE: 1"=20'  
FILE:



PROJECT ENGINEER DATE



**rrm design group**  
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PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_  
LS, CW

CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_ DATE \_\_\_\_\_

DATE	APPROVED	DESIGN	CHECKED

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REVISIONS

**CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT**  
PAVING AND GRADING - AREA 4

N/A  
PBW. NO.

XXXX  
BID. NO. SHT. DES.

00C09  
DWG. NO.

SHT. OF XX

Plot Date: 12/21/2023 3:08:56 PM

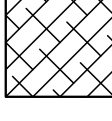
## PLANTING NOTES

- CONTRACTOR SHALL SUBMIT LABELED REPRESENTATIVE PHOTOS OF ALL PLANT MATERIAL, TREES AND GROUNDCOVERS. PHOTOS SHALL BE OF THE SPECIFIED CONTAINER SIZE. PHOTOS SHALL BE SUBMITTED AS A COMPLETE SUBMITTAL PACKAGE FOR REVIEW AND APPROVAL. INCLUDE PHOTOS OF ANY PROPOSED SUBSTITUTES, CLEARLY LABELED.
- ALL PLANTED AREAS SHALL BE CONTINUOUSLY MAINTAINED IN A HEALTHY, GROWING CONDITION, SHALL RECEIVE REGULAR PRUNING, FERTILIZING, MOWING, AND TRIMMING, AND SHALL BE KEPT FREE OF WEEDS AND DEBRIS BY THE OWNER OR PERSON IN POSSESSION OF SUCH AREAS. ANY DAMAGED, DEAD OR DECAYING PLANT MATERIAL SHALL BE REPLACED WITHIN THIRTY (30) DAYS FROM THE DATE OF DAMAGE.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL PLANT MATERIAL AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
- PLANTING PLANS ARE DIAGRAMMATIC AND PLANT SCHEDULE ON THE DRAWINGS SHALL BE USED AS A GUIDE ONLY. CONTRACTOR SHALL TAKEOFF AND VERIFY SIZES AND QUANTITIES BY PLAN CHECK. NOTIFY PROJECT LANDSCAPE ARCHITECT OF ANY MAJOR DISCREPANCIES.
- ALL STRUCTURAL AND HARDSCAPE IMPROVEMENTS SHALL BE CONSTRUCTED AND FINISHED AHEAD OF PLANTING UNLESS DESIGNATED OTHERWISE ON THE DRAWINGS.
- ADJUST PLANT MATERIAL AS NECESSARY AROUND UTILITY LOCATIONS. NOTIFY LANDSCAPE ARCHITECT OF ANY MAJOR CONFLICTS OR NECESSARY ADJUSTMENTS.
- ALL WORK ON THE IRRIGATION SYSTEM INCLUDING OPERATIONAL TESTS, AND BACKFILLING OF TRENCHES SHALL BE COMPLETED AHEAD OF PLANTING.
- LOCATIONS OF ALL PLANT MATERIAL SHALL BE REVIEWED ON SITE BY LANDSCAPE ARCHITECT PRIOR TO PLANTING. OWNER OR LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE ANY ADJUSTMENTS, SUBSTITUTIONS, ADDITIONS, AND DELETIONS TO THE PLANT LAYOUT AS WORK PROGRESSES.
- ALL GROUNDCOVER SHALL BE TRIANGULARLY SPACED, UNLESS OTHERWISE NOTED.
- TREES SHALL BE INSTALLED NO CLOSER THAN TEN (10) FEET FROM UTILITIES.
- TREES TO BE PLANTED WITHIN FIVE (5) FEET OF HARDSCAPE, UTILITIES, WALLS, OR STRUCTURES SHALL BE INSTALLED WITH A ROOT BARRIER.
- ALL PLANTING AREAS TO RECEIVE 3" THICK MIN. LAYER OF UNTREATED, SEED FREE "WALK-ON" BARK MULCH UNLESS NOTED OTHERWISE. PROVIDE SAMPLE FOR APPROVAL.
- SOIL SHALL BE AMENDED PURSUANT TO AN AGRONOMIC SOILS REPORT, WITH INFILTRATION RATES, PRIOR TO PLANTING.
- REFER TO PLANTING DETAILS FOR ADDITIONAL INFORMATION.

## GENERAL NOTES:

- PLANT LIST IS FOR CONVENIENCE OF CONTRACTOR ONLY. IN CASE OF DISCREPANCIES BETWEEN THE PLANS AND THE LIST, PLANS SHALL PREVAIL.
- PLANT LOCATIONS SHOWN ON THE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL LOCATE ALL PLANT MATERIAL UNDER THE DIRECTION OF THE AUTHORIZED REPRESENTATIVE PRIOR TO PLANTING HOLE EXCAVATION.
- THE AUTHORIZED REPRESENTATIVE RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS, AND DELETIONS TO THE PLANTING LAYOUT AS WORK PROGRESSES.
- ALL GROUNDCOVER SHALL BE TRIANGULARLY SPACED UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL INSTALL A 3" LAYER OF WALK ON BARK MULCH IN ALL PLANTING AREAS.

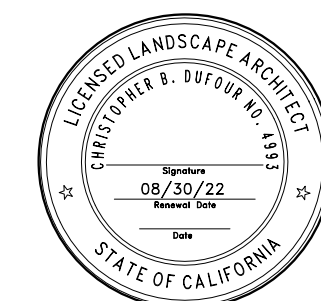
## PLANT SCHEDULE

SHRUB AREAS	QTY	BOTANICAL NAME	COMMON NAME	CONT	WUCOLS
	1,947 SF	BIORETENTION AREA ZONE A			
	102	AGROSTIS PALLENS	THINGRASS	1 GAL	LOW
	45	CAREX PRAEGRACILIS	CALIFORNIA FIELD SEDGE	1 GAL	LOW
	152	JUNCUS GLAUCUS	BLUE RUSH	1 GAL	MEDIUM
	152	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	MEDIUM
	2,443 SF	BIORETENTION AREA ZONE B			
	57	CAREX BARBARAE	SANTA BARBARA SEDGE	1 GAL	LOW
	63	CHONDROPETALUM TECTORUM	CAPE RUSH	5 GAL	LOW
	63	MUHLENBERGIA RIGENS	DEER GRASS	5 GAL	LOW
	57	SALVIA SPATHACEA	HUMMINGBIRD SAGE	1 GAL	LOW
	202	ARTEMISIA CALIFORNICA	CALIFORNIA SAGEBRUSH	5 GAL	VERY LOW
	163	CAREX BARBARAE	SANTA BARBARA SEDGE	1 GAL	LOW
	149	DIPLACUS AURANTIACUS	STICKY MONKEYFLOWER	5 GAL	VERY LOW
	333 SF	JUNCUS PATENS	CALIFORNIA GRAY RUSH	5 GAL	LOW
	64	RIBES SPECIOSUM	FUCHSIA FLOWERING GOOSEBERRY	5 GAL	VERY LOW

PROPERTY LINES ARE APPROXIMATE



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PROJECT ENGINEER DATE



PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

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L.S. CW. CITY ENGINEER ORIGINAL SIGNED DATE

DESIGN DRAWN CHECKED

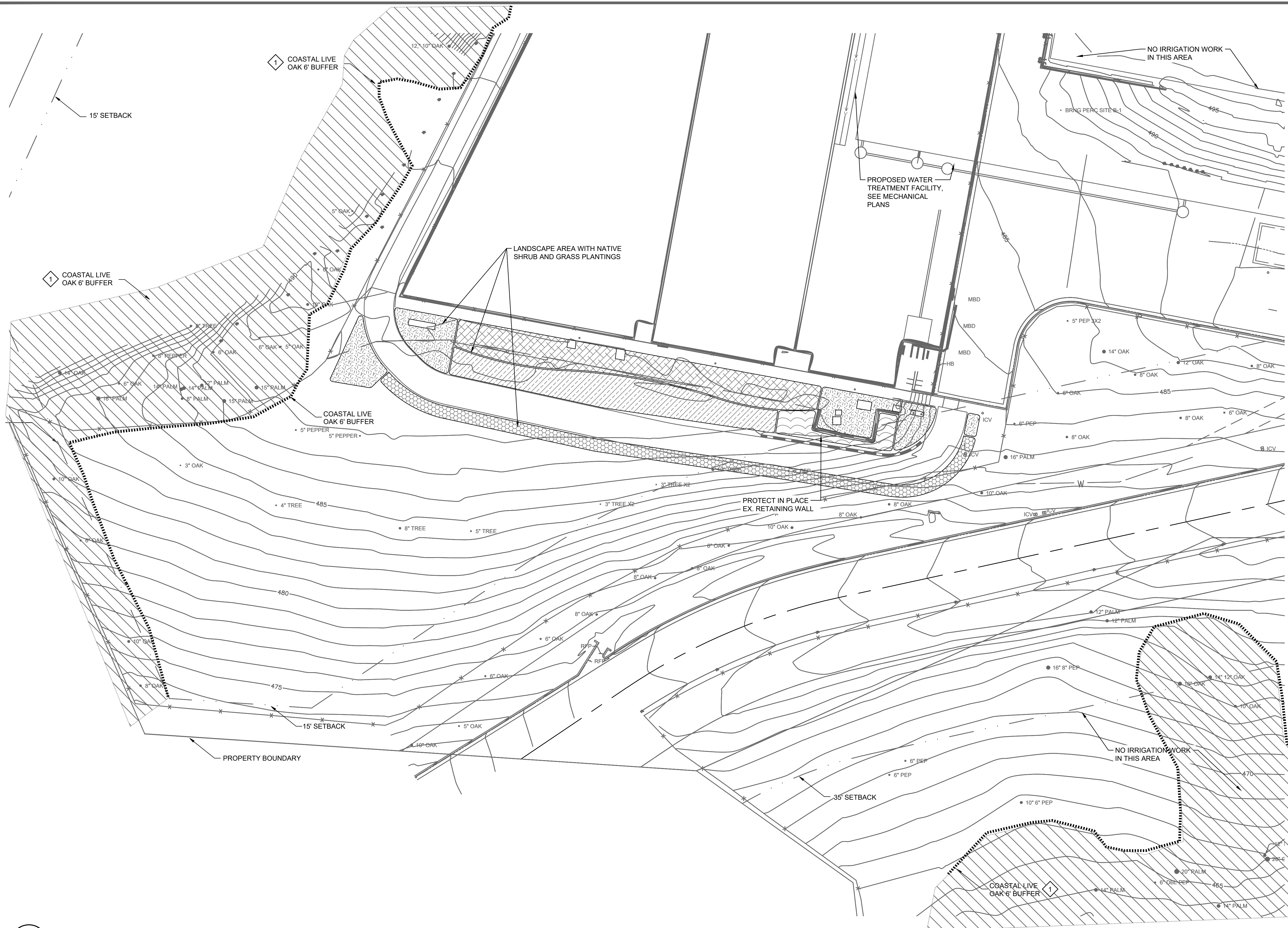
DATE APPROVED

NO. 60% SUBMITTAL NOT FOR CONSTRUCTION REVISIONS

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
PLANTING SCHEDULE AND NOTES

N/A  
PBW. NO.  
XXXX  
BID. NO. SHT. DES.  
00LP00  
DWG. NO.  
SHT. OF XX

Plot Date: 12/21/2023 3:49:05 PM



**KEY NOTES:**

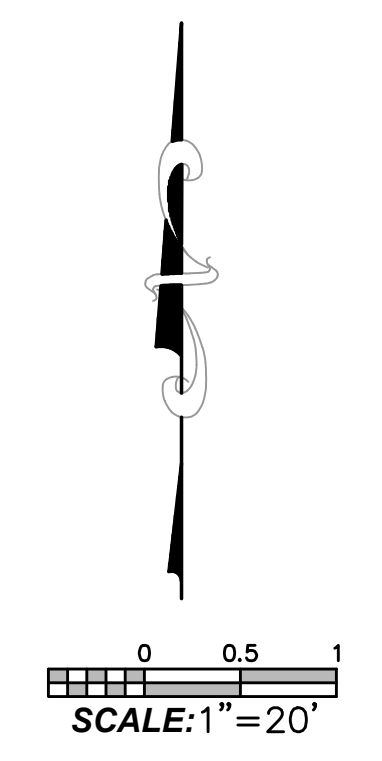
- 1 PROVIDE 6-FT BUFFER FROM OUTER EDGE OF DRIPLINE OF OAK TREES. NO WORK SHALL BE DONE WITHIN THE BUFFER.

**A PLANTING PLAN**  
 SCALE: 1"=20'-0"  
 FILE: 200301L01

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PUBLIC WORKS DEPARTMENT  
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 L.S. CW, CS  
 CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_ DATE \_\_\_\_\_

DATE	APPROVED	DESIGN	CHECKED

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CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
 PLANTING PLAN - AREA 1

N/A  
 PBW. NO.  
 XXXX  
 BID NO. SHT. DES.  
 00LP01  
 DWG. NO.  
 SHT. OF XX



Plot Date: 12/21/2023 3:55:27 PM

1 COASTAL LIVE OAK 6' BUFFER

COASTAL LIVE OAK 6' BUFFER

8" PAPER 6" PAPER 8" OAK 10" PAPER 10" PAPER 12" PAPER

BIORETENTION AREA ZONE B  
BIORETENTION AREA ZONE A

PROPERTY BOUNDARY

15' SETBACK

**KEY NOTES:**

- 1 PROVIDE 6-FT BUFFER FROM OUTER EDGE OF DRIPLINE OF OAK TREES. NO WORK SHALL BE DONE WITHIN THE BUFFER.

PROPERTY BOUNDARY

15' SETBACK

COASTAL LIVE OAK 6' BUFFER

TREE WELL

TREE WELL

FF=492.15'

FF=492.16'

1 COASTAL LIVE OAK 6' BUFFER

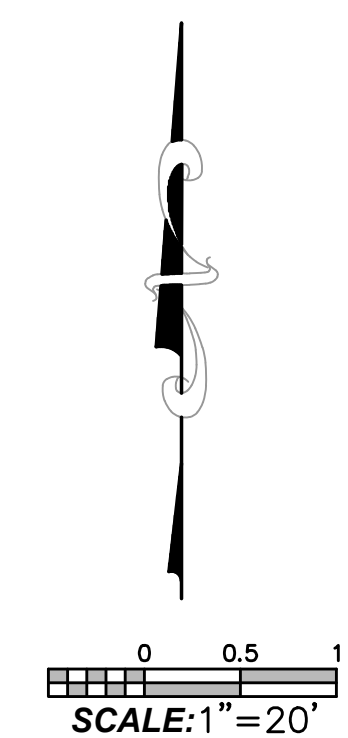
**A PLANTING PLAN**

SCALE: 1"=20'-0"  
FILE: 200301L01

PROPERTY LINES ARE APPROXIMATE



Know what's below.  
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PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_  
L.S. CW, CS  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_ DATE \_\_\_\_\_

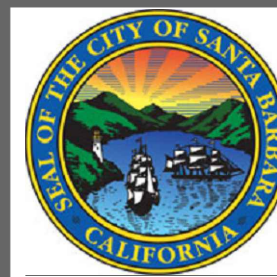
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DESIGN DRAWN \_\_\_\_\_  
CHECKED \_\_\_\_\_

NO.	REVISIONS

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NOT FOR  
CONSTRUCTION

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
PLANTING PLAN - AREA 2

N/A  
PBW. NO.  
XXXX  
BID. NO. SHT. DES.  
00LP02  
DWG. NO.  
SHT. OF XX



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
LS, CW, CS  
CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

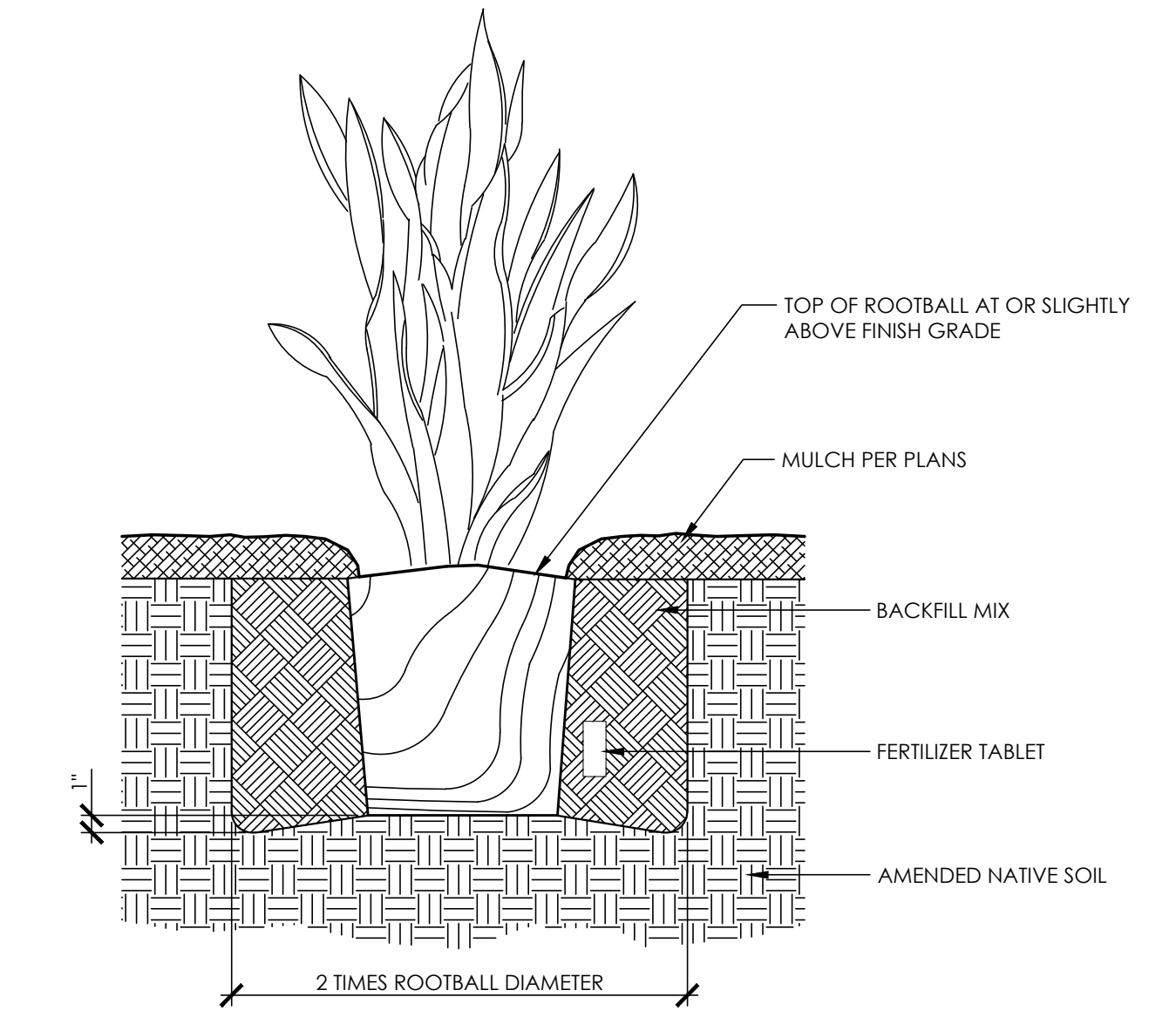
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CHECKED \_\_\_\_\_

DATE APPROVED \_\_\_\_\_

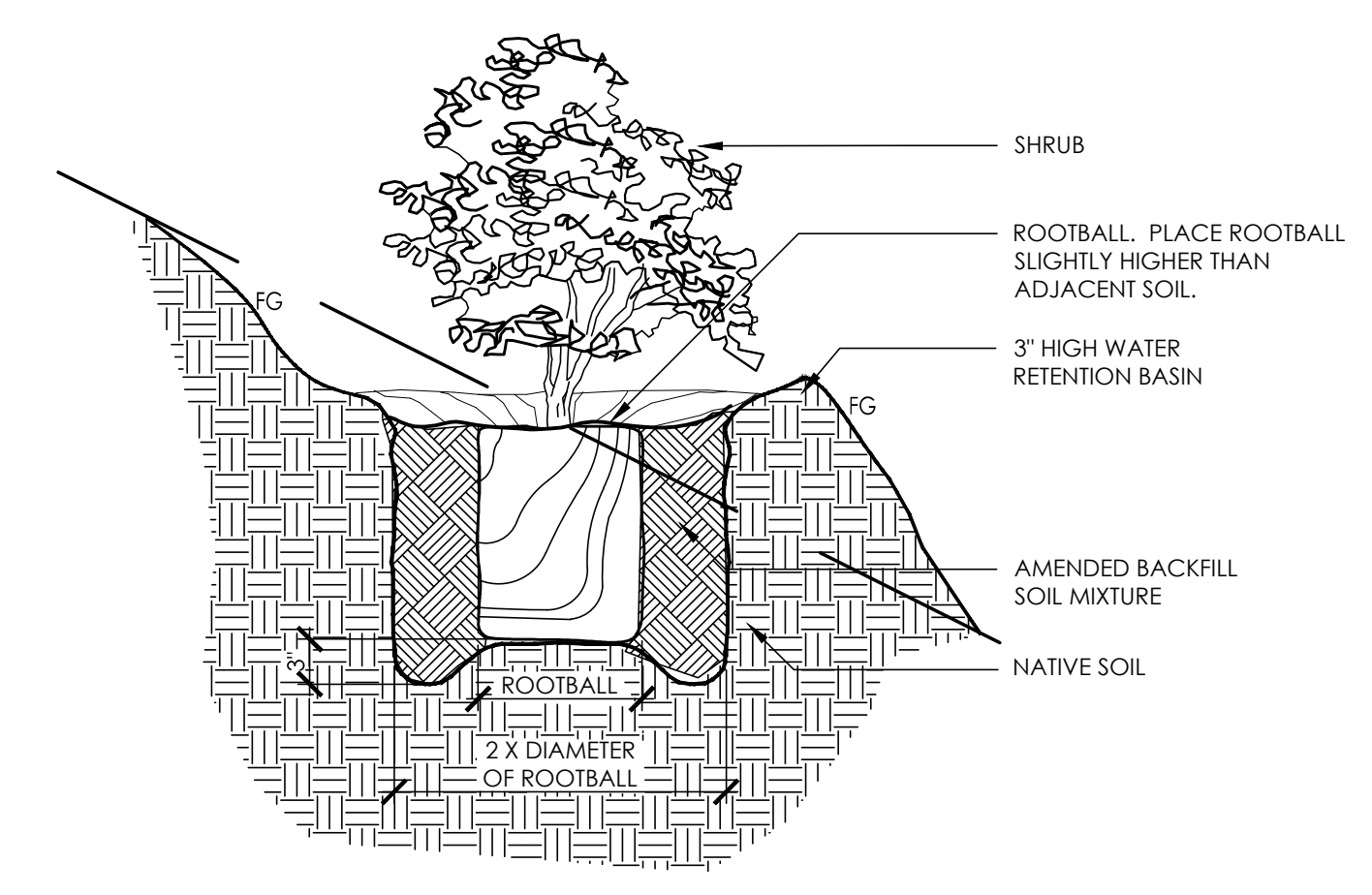
NO. \_\_\_\_\_  
60% SUBMITTAL  
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CONSTRUCTION  
REVISIONS

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
PLANTING DETAILS

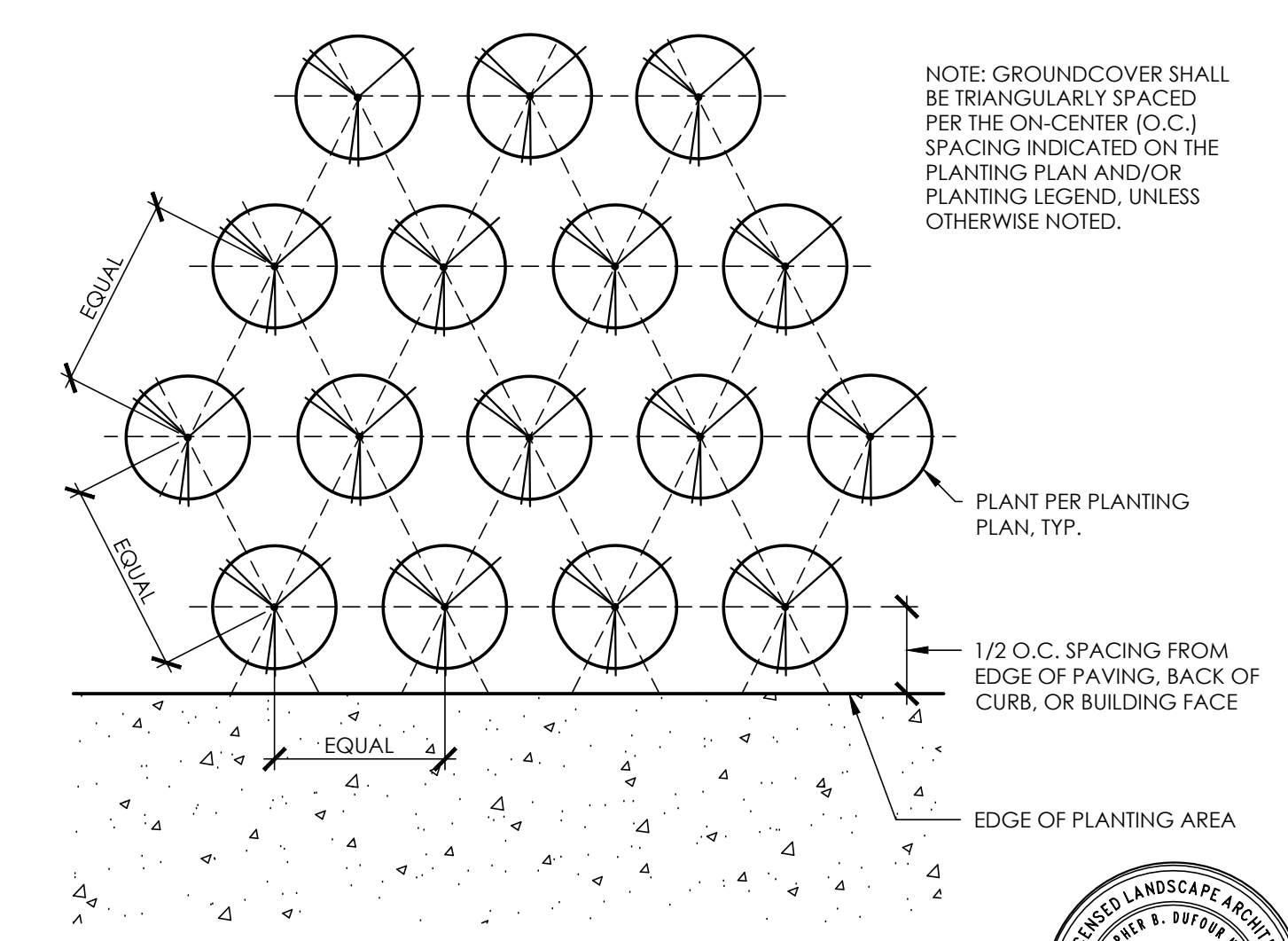
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PBW. NO.  
XXXX  
BID. NO. SHT. DES.  
00LP03  
DWG. NO.  
SHT. OF XX



3 SHRUB PLANTING  
1 1/2" = 1'-0" RRM-2200-2266.01-13



2 SHRUB PLANTING ON SLOPE  
1" = 1'-0" RRM-2200-2266.01-61

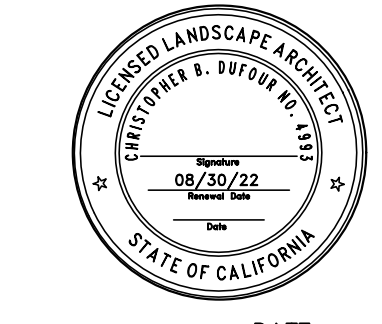


1 GROUNDCOVER SPACING  
1 1/2" = 1'-0" PROJECT ENGINEER DATE  
RRM-2200-2266.01-11

PROPERTY LINES  
ARE APPROXIMATE



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# IRRIGATION NOTES

- REFER TO SHEET U1501 & U1502 FOR DETAILS.
- ALL IRRIGATION EQUIPMENT SHALL BE INSTALLED PER THESE DRAWINGS AND MANUFACTURER'S RECOMMENDATIONS. IF CONFLICTS OCCUR, MANUFACTURER'S DETAILS SHALL TAKE PRECEDENCE.
- IRRIGATION PLAN IS DIAGRAMMATIC. FINAL LOCATION OF PIPING WILL BE DETERMINED AT THE TIME OF INSTALLATION. MAINLINE AND LATERALS SHALL BE PLACED IN THE SAME TRENCH WHEN POSSIBLE. ALL Q.C. VALVES ARE TO BE LOCATED 12" FROM SIDEWALKS, CURBS, ASPHALT & CONCRETE SURFACES.
- ALL EQUIPMENT REQUIRED BUT NOT SPECIFIED ON THE DRAWING, TO COMPLETE THE WORK, SHALL BE PROVIDED BY THE IRRIGATION CONTRACTOR.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND/OR SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE POWER TO CONTROLLERS AND DEDICATE ONE (1) 20 AMP BREAKER FOR EACH CONTROLLER. THE AUTHORIZED REPRESENTATIVE SHALL REVIEW CONTROLLER LOCATIONS PRIOR TO INSTALLATION. 120 VOLT SERVICE AND HOOK-UP TO THE CONTROLLER SHALL BE COMPLETED BY A LICENSED ELECTRICAL CONTRACTOR. THIS COST IS TO BE A PART OF THE LANDSCAPE CONTRACTOR'S BID.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SITE CONDITIONS PRIOR TO BEGINNING WORK. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO EXPENSE TO THE OWNER.
- CONTRACTOR SHALL ADJUST HEADS AS NEEDED TO MINIMIZE OVERSPRAY ONTO HARDSCAPE AREAS.
- SPLICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE. LABEL ALL WIRES W/ WATERPROOF MARKERS AT ALL SPLICES AND VALVE MANIFOLDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL MATERIAL APPEARING ON PLAN.
- PROVIDE PVC SHUTOFF VALVE FOR EACH VALVE.
- ALL EXISTING UTILITIES, WATER LINES AND FIRE HYDRANTS SHALL REMAIN CONNECTED AND IN FULL CONTINUOUS OPERATION DURING AND FOLLOWING ALL CONTRACT WORK.
- CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO THE IRRIGATION SYSTEM FOLLOWING A PRECIPITATION TEST PER THE OWNER. ADJUSTMENTS SHALL INCLUDE BUT WILL NOT BE LIMITED TO: HEAD RELOCATION, CHANGING NOZZLES, AND ADJUSTING ARC PATTERNS TO ATTAIN 65% EFFICIENT UNIFORMITY AS REQUIRED BY THE OWNER.
- CONTRACTOR SHALL SLEEVE ALL PIPE CROSSINGS UNDER HARDSCAPE. ALL SLEEVES UNDER PAVING SHALL RECEIVE IDENTIFYING MARK ON TOP OF HARDSCAPE AT EDGE OF PLANTER TO INDICATE LOCATION OF SLEEVE. EXTEND ALL SLEEVES 18" BEYOND EDGE OF HARDSCAPE, TYP.
- ALL NEW IRRIGATION BOXES, AND ADDITIONAL BOXES SHALL BE LOCATED IN PLANTING AREAS 18" MIN. AWAY FROM ADJACENT PAVING AND 5' MIN. AWAY FROM IMMEDIATE BUILDING ENTRIES.
- FOR ALL DRIP AREAS: CONTRACTOR TO INSTALL AIR RELIEF VALVES, OPERATION INDICATORS AND FLUSH VALVES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ALL CONTROL VALVES SHALL BE TAGGED WITH IDENTIFICATION TAGS. TAGS SHALL BE WEATHERPROOF PLASTIC. IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR.
- CONTRACTOR SHALL NOT INSTALL ANY PLANTING UNTIL THE FOLLOWING ARE COMPLETED: 1. THE IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL. 2. HYDROSTATIC PRESSURE TESTS SHALL BE PERFORMED ON MAIN AND LATERAL LINES. 3. ALL ZONES SHALL PASS A COVERAGE TEST. 4. CONTROLLERS SHALL BE FULLY OPERATIONAL.

# NOTES FOR RECLAIMED WATER

## NOTES FOR NEW IRRIGATION SYSTEMS

- THE CITY MUST INSPECT AND/OR VERIFY:
  - PRESENCE OF PROPER BACKFLOW PREVENTION DEVICE AT ALL POTABLE WATER POINTS OF CONNECTION.
  - NEW UNDERGROUND PIPING (MATERIALS, BURIAL DEPTH, CLEARANCES, LABELING, SLEEVING).
  - INSTALLATION OF SIGNS, TAGS AND CONTROLLER DECALS.
  - REQUIRED TEMPORARY CONNECTION TO POTABLE WATER IN ORDER TO CONDUCT REQUIRED CROSS-CONNECTION TEST.
- SITE MUST PASS A REQUIRED CROSS-CONNECTION TEST PERFORMED BY A CERTIFIED AWWA CROSS-CONNECTION SPECIALIST. IF POTABLE WATER IS NOT PRESENT AND/OR USED AT THE SITE, THE CROSS-CONNECTION TEST MAY BE WAIVED. CONTACT THE CITY UTILITIES DEPARTMENT TO DISCUSS TESTING REQUIREMENTS.
- NEW METER INSTALLATION - PRIOR TO RECEIVING RECYCLED WATER, THE CITY MUST INSPECT THE DISCONNECTION OF THE SITE'S IRRIGATION SYSTEM FROM THE TEMPORARY POTABLE WATER SUPPLY, AND THEN INSPECT THE CONNECTION OF THE SYSTEM TO THE RECYCLED WATER SUPPLY.
- ALL ON-SITE BURIED RECYCLED WATER PIPING SHALL BE IDENTIFIED BY ONE OF THE FOLLOWING METHODS:
  - USING PURPLE-COLORED PVC PIPE WITH CONTINUOUS WORDING: "CAUTION - RECYCLED WATER" OR "CAUTION - RECLAIMED WATER" PRINTED ON OPPOSITE SIDES OF THE PIPE. PIPE SHALL BE LAID WITH WORDING FACING UPWARDS.
  - USING PURPLE-COLORED POLYWRAP SLEEVE OVER THE PIPE. POLYWRAP SLEEVE SHALL HAVE CONTINUALLY REPEATING WORDING: "CAUTION - RECYCLED WATER" OR "CAUTION - RECLAIMED WATER" PRINTED ON OPPOSITE SIDES.
  - WARNING TAPE WITH A MINIMUM WIDTH OF THREE INCHES (3") READING: "CAUTION - RECYCLED WATER" OR "CAUTION - RECLAIMED WATER" (IN BLACK OR WHITE LETTERING ON PURPLE BACKGROUND) SHALL RUN CONTINUOUSLY ON TOP OF PIPING AN SHALL BE ATTACHED TO PIPING WITH PLASTIC TAPE BANDED AROUND THE WARNING TAPE AND THE PIPE EVERY FIVE (5') ON CENTER.
- ALL ON-SITE RECYCLED WATER PIPING SHALL BE BURIED TO A MINIMUM DEPTH FROM FINISHED GRADE TO TOP OF PIPE (MINIMUM COVER) OF:
  - PRESSURIZED LINES 3 INCHES AND LARGER - 24 INCHES
  - PRESSURIZED LINES 2 1/2 INCHES AND SMALLER - 18 INCHES
  - INTERMITTENT PRESSURE LINES - 12 INCHES
- ALL RECYCLED WATER PIPING OTHER THAN PVC PIPING WITH SOLVENT WELDED JOINTS SHALL BE PROTECTED AGAINST MOVEMENT WITH THRUST BLOCKS OR RESTRAINED JOINTS OR OTHER APPROVED METHOD PER THE CITY REQUIREMENTS.
- MAINTAIN A 10-FOOT HORIZONTAL SEPARATION BETWEEN BURIED PRESSURIZED RECYCLED WATER IRRIGATION PIPING AND BURIED POTABLE WATER PIPING UNLESS OTHERWISE NOTED. AT PIPE CROSSINGS, BURIED PRESSURIZED RECYCLED WATER IRRIGATION PIPING MUST BE 12 INCHES BELOW POTABLE WATER LINES. PRESSURIZED RECYCLED WATER PIPELINES ARE ALLOWED OVER POTABLE WATER PIPELINED WITH A MINIMUM OF 12 INCHES OF VERTICAL SEPARATION IF A FULL STANDARD PIPE LENGTH IS CENTERED OVER THE CROSSING. OF THE RECYCLED WATER PIPELINE IS INSTALLED IN A PIPE SLEEVE WHICH EXTENDS A MINIMUM OF 10 FEET ON EITHER SIDE OF THE POTABLE WATER PIPING. INTERMITTENTLY PRESSURIZED IRRIGATION LINES MAY BE LOCATED A MINIMUM OF 12 INCHES ABOVE POTABLE WATER PIPELINES WITHOUT SLEEVING.
- ALL RECYCLED WATER SYSTEM REMOTE CONTROL VALVES, ISOLATION VALVES, QUICK COUPLING VALVES,

- STRAINERS, AND PRESSURE-REGULATING VALVES SHALL BE INSTALLED BELOW GRADE IN VALVE BOXES (WITH PURPLE-COLORES BOXES AND LIDS). VALVE BOXES SHALL HAVE A WARNING LABEL OR NAMEPLATE PERMANENTLY MOLDED INTO OR ATTACHED ONTO THE LID WITH RIVETS, SCREWS, OR BOLTS. WARNING LABELS SHALL BE PER CITY OF SAN LUIS OBISPO STANDARD DETAILS.
- NO HOSE BIBS ARE ALLOWED ON THE RECYCLED WATER IRRIGATION SYSTEM.
- ALL RECYCLED WATER METERS, DEVICES AND VALVES (E.G. ISOLATION VALVES, IRRIGATION CONTROLLERS, REMOTE CONTROL VALVES, PRESSURE REGULATING VALVES, QUICK COUPLING VALVES, ETC.) SHALL BE TAGGED PER CITY OF SAN LUIS OBISPO STANDARD DETAILS.
- RECYCLED WATER ADVISORY SIGNS CONFORMING TO THE DETAILS AND SPECIFICATIONS ON THE CITY OF SAN LUIS OBISPO-APPROVED IRRIGATION PLANS SHALL BE POSTED PER LOCATIONS SHOWN ON THOSE IRRIGATION PLANS.
- INSTALLATION OF DIRECT INJECTION SYSTEMS ON THE RECYCLED WATER IRRIGATION SYSTEM IS NOT PERMITTED.
- NO DRINKING FOUNTAINS OR EATING AREAS ARE ALLOWED IN THE APPROVED RECYCLED WATER USE AREA UNLESS ADEQUATELY PROTECTED FROM OVERSPRAY.
- ALL RECYCLED WATER METERS WILL BE SET BY THE CITY AFTER THE SITE'S OWNER, DEVELOPER, OR CONTRACTOR HAS APPLIED FOR RECYCLED WATER SERVICE WITH THE CITY. THE WATER SERVICE AGREEMENT HAS BEEN APPROVED (IF APPLICABLE), AND ALL APPLICABLE FEES HAVE BEEN PAID.
- NO OVERSPRAY OR RUNOFF OF RECYCLED WATER IS ALLOWED ON ANY NON-APPROVED USE AREA. PONDING OF RECYCLED WATER DUE TO IRRIGATION IS NOT ALLOWED IN ANY AREA. UPON RECEIVING RECYCLED WATER, THE ON-SITE RECYCLED WATER IRRIGATION SYSTEM MUST PASS A COVERAGE TEST CONDUCTED BY THE CITY INSPECTOR OR DESIGNEE.
- CONTRACTOR SHALL SUBMIT AS-BUILT IRRIGATION PLANS TO THE CITY INSPECTOR WITHIN 90 DAYS OF SITE RECEIVING RECYCLED WATER.

# WATER USE CALCULATIONS

Reference Evapotranspiration (Eto)			40.6					
Hydrozone # /Planting Description*	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (Sq. ft)	ETAF x Area	Estimated Total Water Use (ETWU)	
<b>Regular Landscape Areas</b>								
1 - DT Shrubs	0.25	Spray	0.75	0.33	6272	2090.67	52,626	
2-DT Trees	0.25	Bubbler	0.8	0.31	96	30.00	755	
5 -DT Basin Shrubs	0.25	Spray	0.75	0.33	2622	874.00	22,000	
					Totals	8990	2994.67	75,382
<b>Special Landscape Areas</b>								
Play Field				1	0		0	
Edibles				1	0		0	
Other				1	0		0	
					Totals	0	0	
							<b>ETWU Total</b>	<b>75,382</b>
							<b>Maximum Allowed Water Allowance (MAWA)</b>	<b>101,833</b>

# COMPLIANCE WITH MWEO

- PROJECT INFORMATION - SEE COVER PAGE OF THIS DRAWING SET FOR ALL INFORMATION INCLUDING, DATE, PROJECT APPLICANT AND OWNER, AND ADDRESS.
- TOTAL LANDSCAPE AREA: ONSITE: 8,990 SF SHRUBS GROUNDCOVER AND TREES - ONSITE: 8,990 SF TPROJECT TYPE - NEW CONSTRUCTION
- WATER SUPPLY - RECYCLED
- CHECKLIST OF ALL DOCUMENTS IN LANDSCAPE DOCUMENT PACKAGE:
  - X LANDSCAPE DESIGN PLAN - INCLUDED IN THESE LANDSCAPE DRAWINGS
  - X IRRIGATION DESIGN PLAN - INCLUDED IN THESE LANDSCAPE DRAWINGS
  - X GRADING DESIGN PLAN - PER CIVIL SHEETS
- WATER BUDGET CALCULATIONS (MAWA) AND (ETWU). SEE BELOW.
- I AGREE TO COMPLY WITH THE REQUIREMENTS OF MWEO.

*Christina*

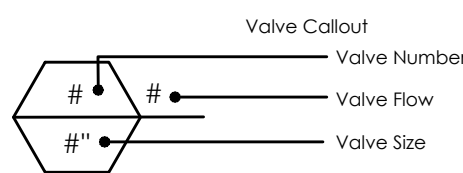
LANDSCAPE ARCHITECT | CA LICENSE NUMBER #4993

# GENERAL NOTES:

- CONTRACTOR SHALL SLEEVE ALL LATERALS AND MAINLINES RUNNING UNDER PAVING
- IRRIGATION PLAN IS DIAGRAMMATIC. FINAL LOCATION OF PIPING WILL BE DETERMINED AT THE TIME OF INSTALLATION. MAINLINE AND LATERALS SHALL BE PLACED IN THE SAME TRENCH WHEN POSSIBLE. ALL Q.C. VALVES ARE TO BE LOCATED 12" FROM SIDEWALKS, CURBS, ASPHALT & CONCRETE SURFACES.
- ALL EQUIPMENT REQUIRED BUT NOT SPECIFIED ON THE DRAWING, TO COMPLETE THE WORK, SHALL BE PROVIDED BY THE IRRIGATION CONTRACTOR.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND/OR SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE POWER TO CONTROLLERS AND DEDICATE ONE (1) 20 AMP BREAKER FOR EACH CONTROLLER. THE AUTHORIZED REPRESENTATIVE SHALL REVIEW CONTROLLER LOCATIONS PRIOR TO INSTALLATION. 120 VOLT SERVICE AND HOOK-UP TO THE CONTROLLER SHALL BE COMPLETED BY A LICENSED ELECTRICAL CONTRACTOR. THIS COST IS TO BE A PART OF THE LANDSCAPE CONTRACTOR'S BID.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SITE CONDITIONS PRIOR TO BEGINNING WORK. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO EXPENSE TO THE OWNER.
- CONTRACTOR SHALL ADJUST HEADS AS NEEDED TO MINIMIZE OVERSPRAY ONTO HARDSCAPE AREAS.
- SPLICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE. LABEL ALL WIRES W/ WATERPROOF MARKERS AT ALL SPLICES AND VALVE MANIFOLDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL MATERIAL APPEARING ON PLAN.
- PROVIDE PVC SHUTOFF VALVE FOR EACH VALVE.
- ALL EXISTING UTILITIES, WATER LINES AND FIRE HYDRANTS SHALL REMAIN CONNECTED AND IN FULL CONTINUOUS OPERATION DURING AND FOLLOWING ALL CONTRACT WORK.
- CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO THE IRRIGATION SYSTEM FOLLOWING A PRECIPITATION TEST PER THE OWNER. ADJUSTMENTS SHALL INCLUDE BUT WILL NOT BE LIMITED TO: HEAD RELOCATION, CHANGING NOZZLES, AND ADJUSTING ARC PATTERNS TO ATTAIN 65% EFFICIENT UNIFORMITY AS REQUIRED BY THE OWNER.
- CONTRACTOR SHALL SLEEVE ALL PIPE CROSSINGS UNDER HARDSCAPE. ALL SLEEVES UNDER PAVING SHALL RECEIVE IDENTIFYING MARK ON TOP OF HARDSCAPE AT EDGE OF PLANTER TO INDICATE LOCATION OF SLEEVE. EXTEND ALL SLEEVES 18" BEYOND EDGE OF HARDSCAPE, TYP.
- ALL NEW IRRIGATION BOXES, AND ADDITIONAL BOXES SHALL BE LOCATED IN PLANTING AREAS 18" MIN. AWAY FROM ADJACENT PAVING AND 5' MIN. AWAY FROM IMMEDIATE BUILDING ENTRIES. EXTRA VALVE WIRES SHALL BE PROVIDED FOR EACH VALVE STATION NOT USED ON PROPOSED CONTROLLER. UNLESS OTHERWISE NOTED ON PLANS, VALVE WIRES SHALL BE EXTENDED AND LOCATED IN TWO (2) VALVE BOXES EACH LOCATED AT POLAR OPPOSITE ENDS OF THE PROJECT SITE.
- FOR ALL DRIP AREAS: CONTRACTOR TO INSTALL AIR RELIEF VALVES, OPERATION INDICATORS AND FLUSH VALVES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL NOT INSTALL ANY PLANTING UNTIL THE FOLLOWING ARE COMPLETED: 1. THE IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL. 2. HYDROSTATIC PRESSURE TESTS SHALL BE PERFORMED ON MAIN AND LATERAL LINES. 3. ALL ZONES SHALL PASS A COVERAGE TEST. 4. CONTROLLERS SHALL BE FULLY OPERATIONAL.

# IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS	DETAIL
■	EXISTING RAIN BIRD 5000 PROTECT IN PLACE	45		25'	
■	EXISTING RAIN BIRD 5000 PROTECT IN PLACE	45		35'	
⊙	RAIN BIRD 5012-PL-SAM-PC,FC-MPR SHRUB ROTOR, 12" POP-UP, PLASTIC RISER, WITH FLOW SHUT-OFF DEVICE, MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE. WITH SEAL-A-MATIC CHECK VALVE.	45		25'	
⊙	RAIN BIRD 5012-PL-SAM-PC,FC-MPR SHRUB ROTOR, 12" POP-UP, PLASTIC RISER, WITH FLOW SHUT-OFF DEVICE, MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE. WITH SEAL-A-MATIC CHECK VALVE.	45		30'	
⊙	RAIN BIRD 5012-PL-SAM-PC,FC-MPR SHRUB ROTOR, 12" POP-UP, PLASTIC RISER, WITH FLOW SHUT-OFF DEVICE, MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE. WITH SEAL-A-MATIC CHECK VALVE.	45		35'	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL			
⊙	RAIN BIRD PEB-PRS-D 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION, WITH PRESSURE REGULATOR MODULE.				
— — — — —	IRRIGATION LATERAL LINE: PVC SCHEDULE 40				
— — — — —	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 EXISTING LATERALS				



PROPERTY LINES ARE APPROXIMATE



Know what's below. Call before you dig.



PROJECT ENGINEER DATE

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
LS, CW

CITY ENGINEER ORIGINAL SIGNED DATE

DESIGN DRAWN \_\_\_\_\_ CHECKED \_\_\_\_\_

DATE APPROVED \_\_\_\_\_

NO. \_\_\_\_\_

60% SUBMITTAL NOT FOR CONSTRUCTION

REVISIONS

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT IRRIGATION SCHEDULE AND NOTES

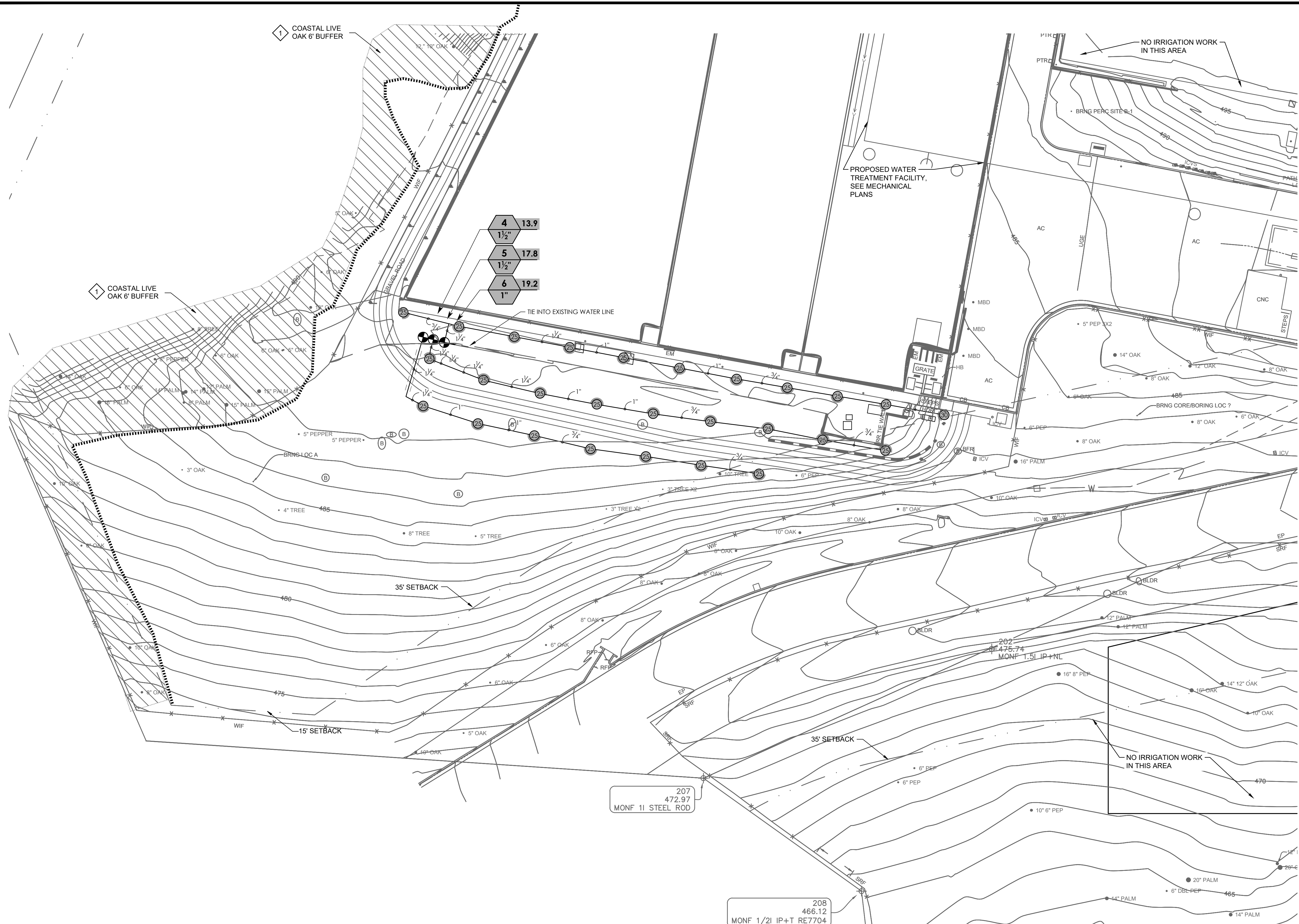
N/A PBW. NO.

XXXXX BID NO. SHT. DES.

00100 DWG. NO.

SHT. OF XX

Plot Date: 12/21/2023 3:36:22 PM



**KEY NOTES:**

- 1 PROVIDE 6-FT BUFFER FROM OUTER EDGE OF DRIPLINE OF OAK TREES. NO WORK SHALL BE DONE WITHIN THE BUFFER.

**A IRRIGATION PLAN**  
 SCALE: 1"=20'-0"  
 FILE: 200301L01

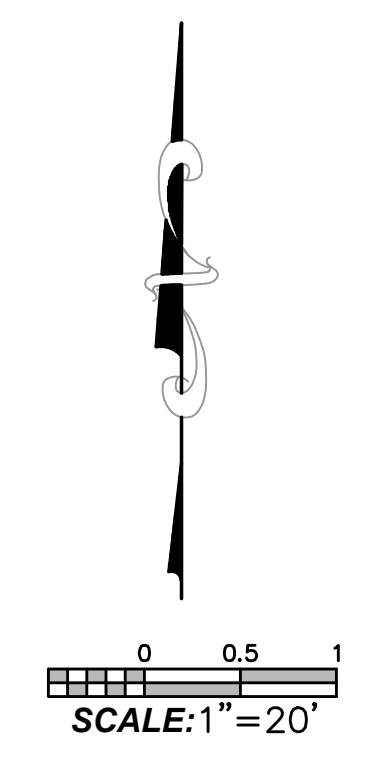
PROPERTY LINES ARE APPROXIMATE



Know what's below. Call before you dig.

207  
472.97  
MONF 1I STEEL ROD

208  
466.12  
MONF 1/2I IP+T RE7704



PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_  
 LS, CW  
 CITY ENGINEER  
 ORIGINAL SIGNED DATE \_\_\_\_\_

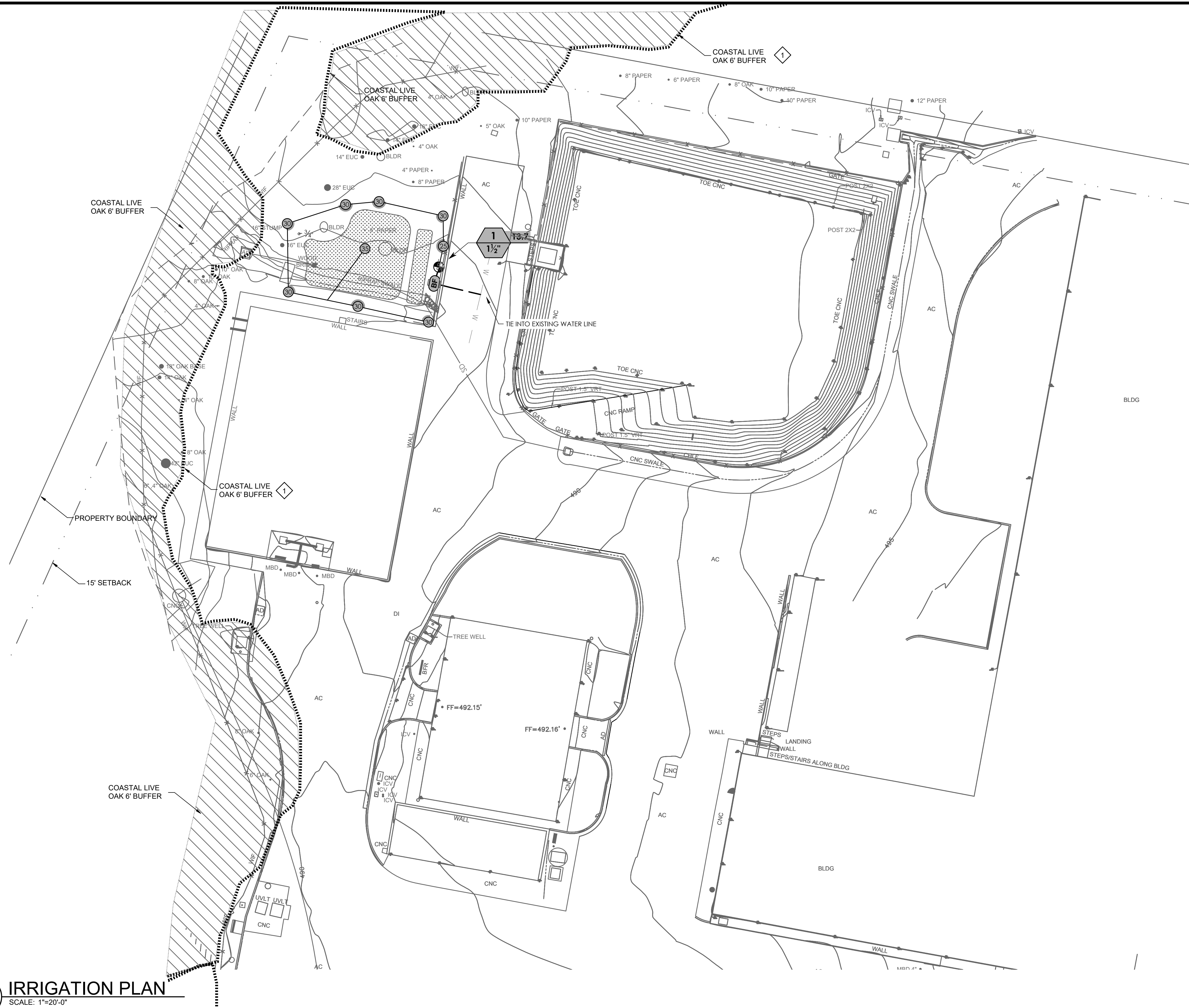
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 DRAWN \_\_\_\_\_  
 CHECKED \_\_\_\_\_

NO.	DATE	APPROVED	REVISIONS
1			60% SUBMITTAL NOT FOR CONSTRUCTION

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
 IRRIGATION PLAN - AREA 1

N/A  
 PBW. NO.  
 XXXX  
 BID NO. SHT. DES.  
 00L101  
 DWG. NO.  
 SHT. OF XX

Plot Date: 12/21/2023 4:04:16 PM



**KEY NOTES:**

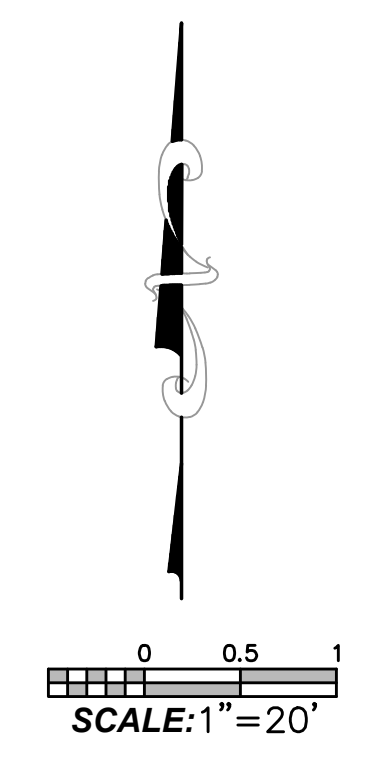
1 PROVIDE 6-FT BUFFER FROM OUTER EDGE OF DRIFLINE OF OAK TREES. NO WORK SHALL BE DONE WITHIN THE BUFFER.

**A IRRIGATION PLAN**  
 SCALE: 1"=20'-0"  
 FILE: 200301L01

PROPERTY LINES ARE APPROXIMATE



Know what's below.  
 Call before you dig.



PROJECT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_



PUBLIC WORKS DEPARTMENT  
 ENGINEERING DIVISION

APPROVED: \_\_\_\_\_  
 LS, CW, \_\_\_\_\_  
 CITY ENGINEER ORIGINAL SIGNED DATE \_\_\_\_\_

DESIGN DRAWN \_\_\_\_\_  
 CHECKED \_\_\_\_\_

DATE APPROVED \_\_\_\_\_

NO.	DATE	APPROVED	REVISIONS
1			60% SUBMITTAL NOT FOR CONSTRUCTION

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
 IRRIGATION PLAN - AREA 2

N/A  
 PBW. NO.  
 XXXX  
 BID. NO. SHT. DES.  
 00L102  
 DWG. NO.  
 SHT. OF XX

Plot Date: 12/21/2023 4:44:26 PM



PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_  
CITY ENGINEER ORIGINAL SIGNED DATE

DESIGN DRAWN CHECKED  
DATE APPROVED

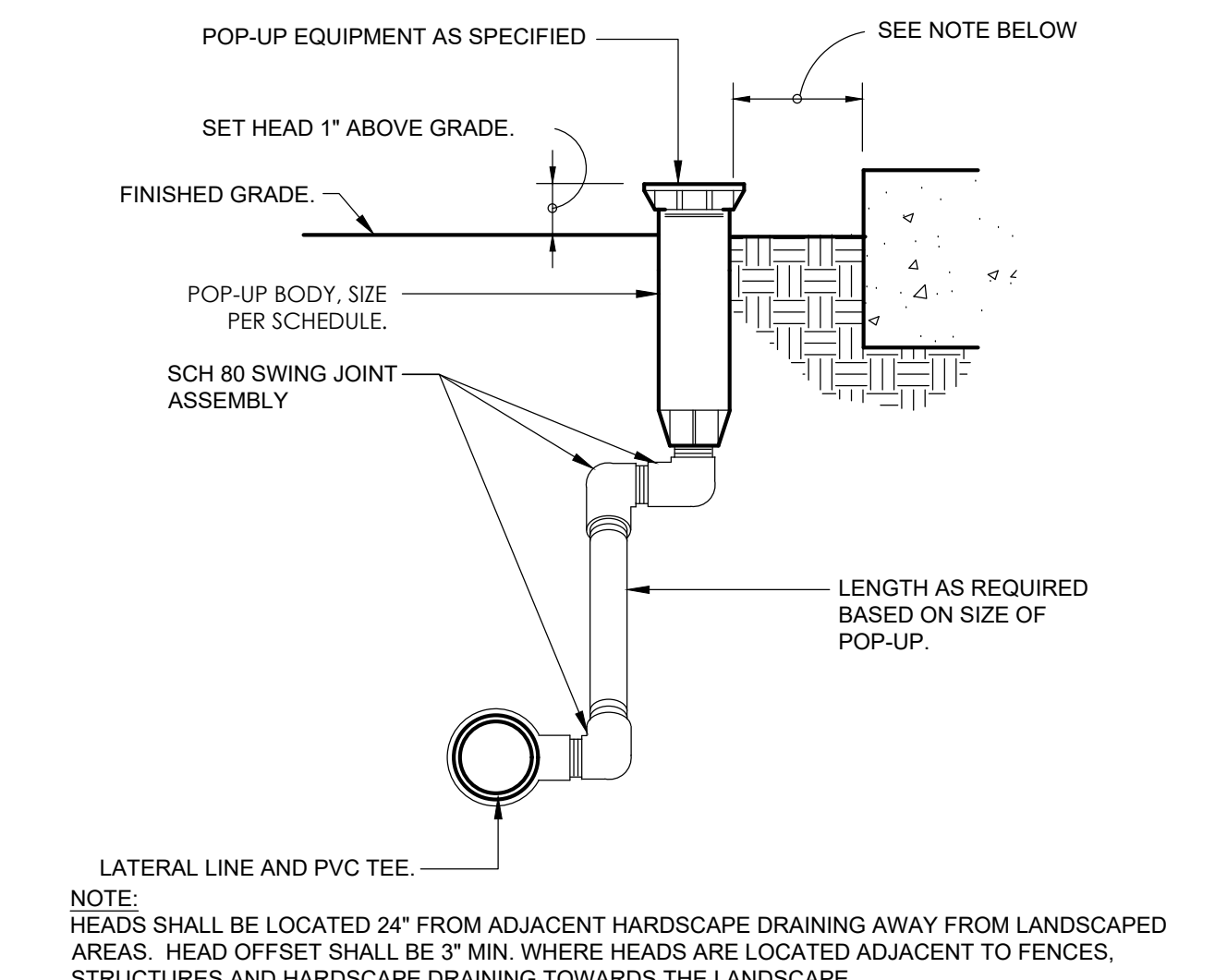
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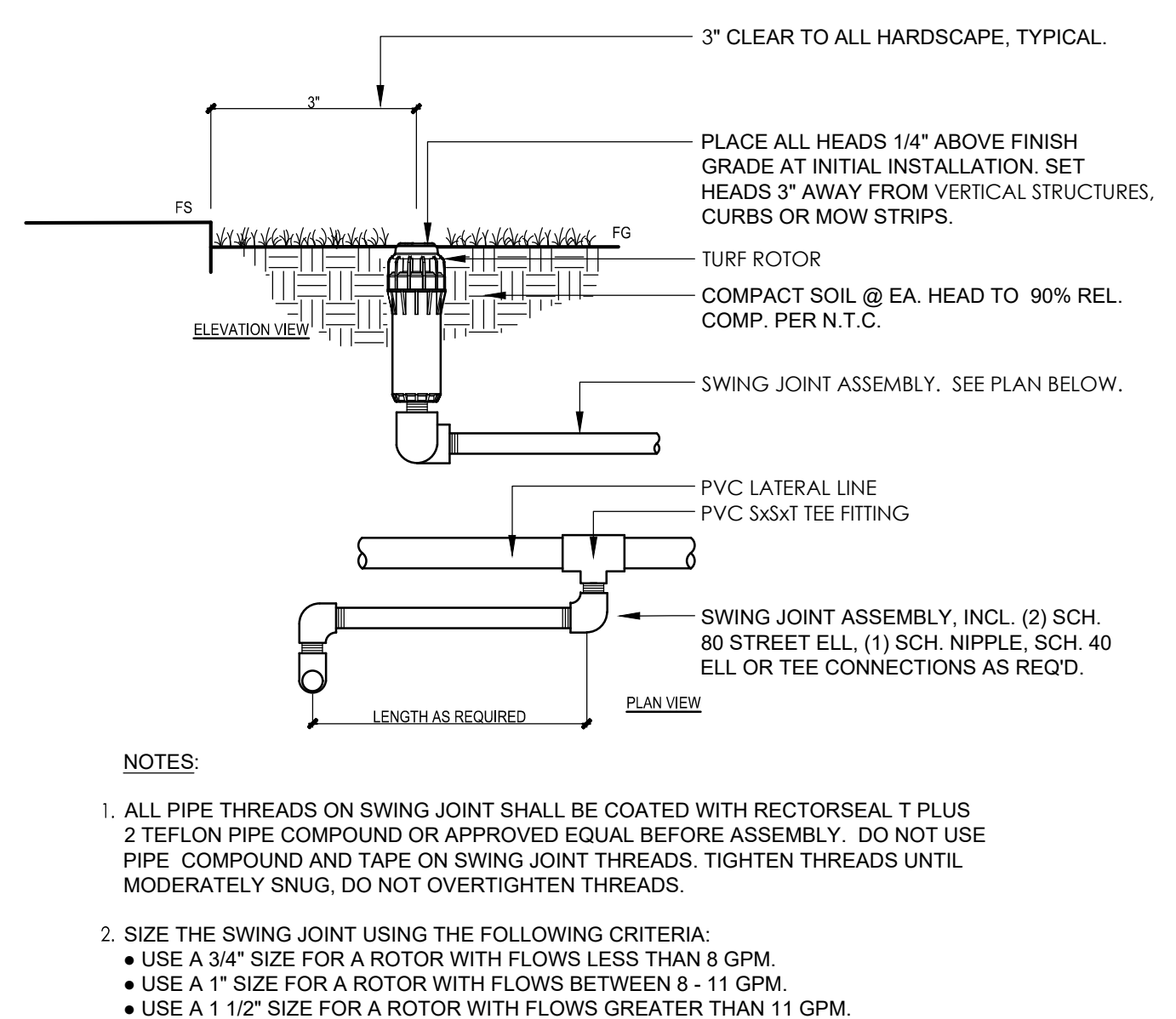
REVISIONS

CATER FINISHED WATER RESERVOIR RESILIENCY PROJECT  
IRRIGATION DETAILS

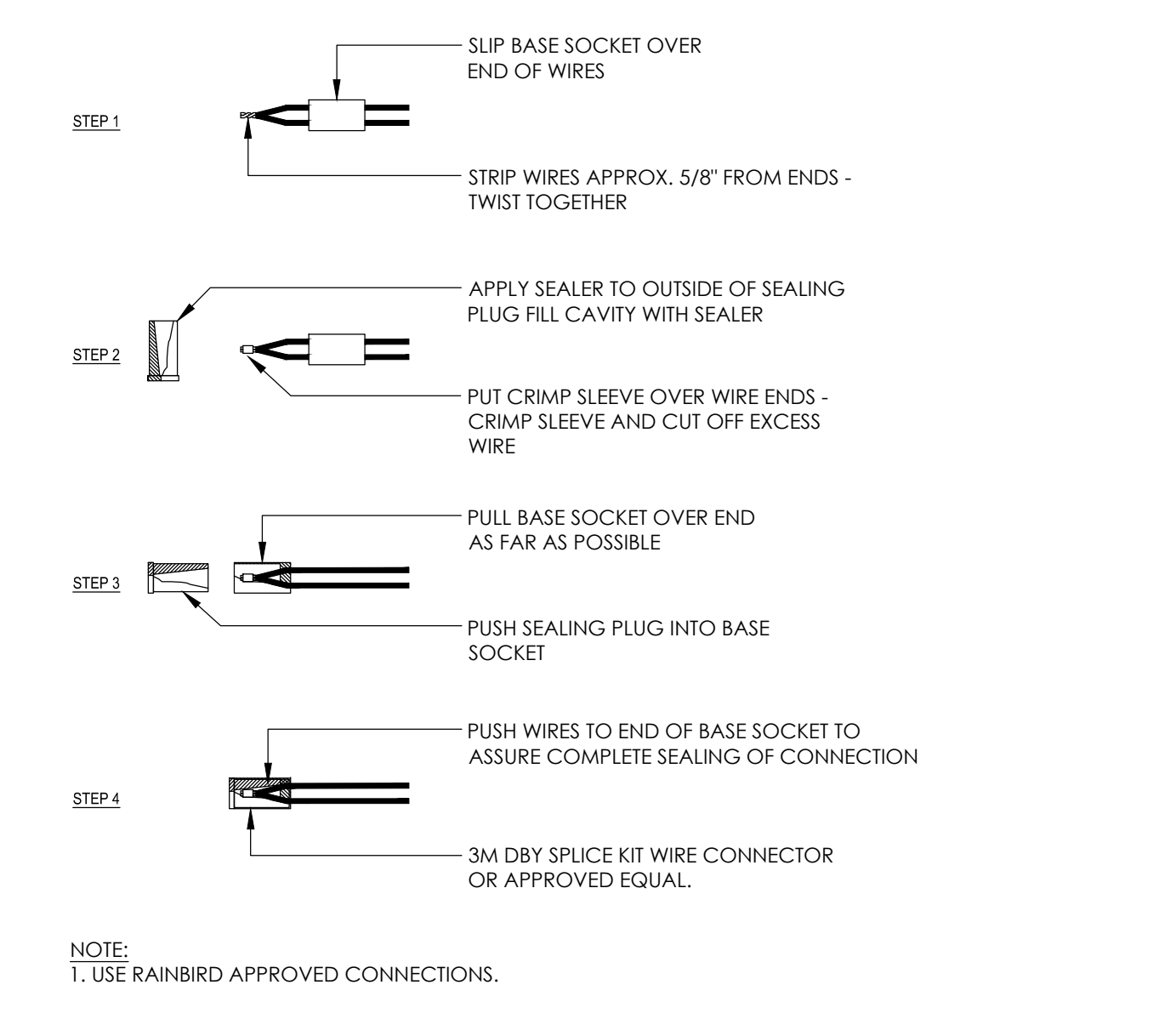
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XXXX  
SHT. DES.  
00103  
DWG. NO.  
SHT. OF XX



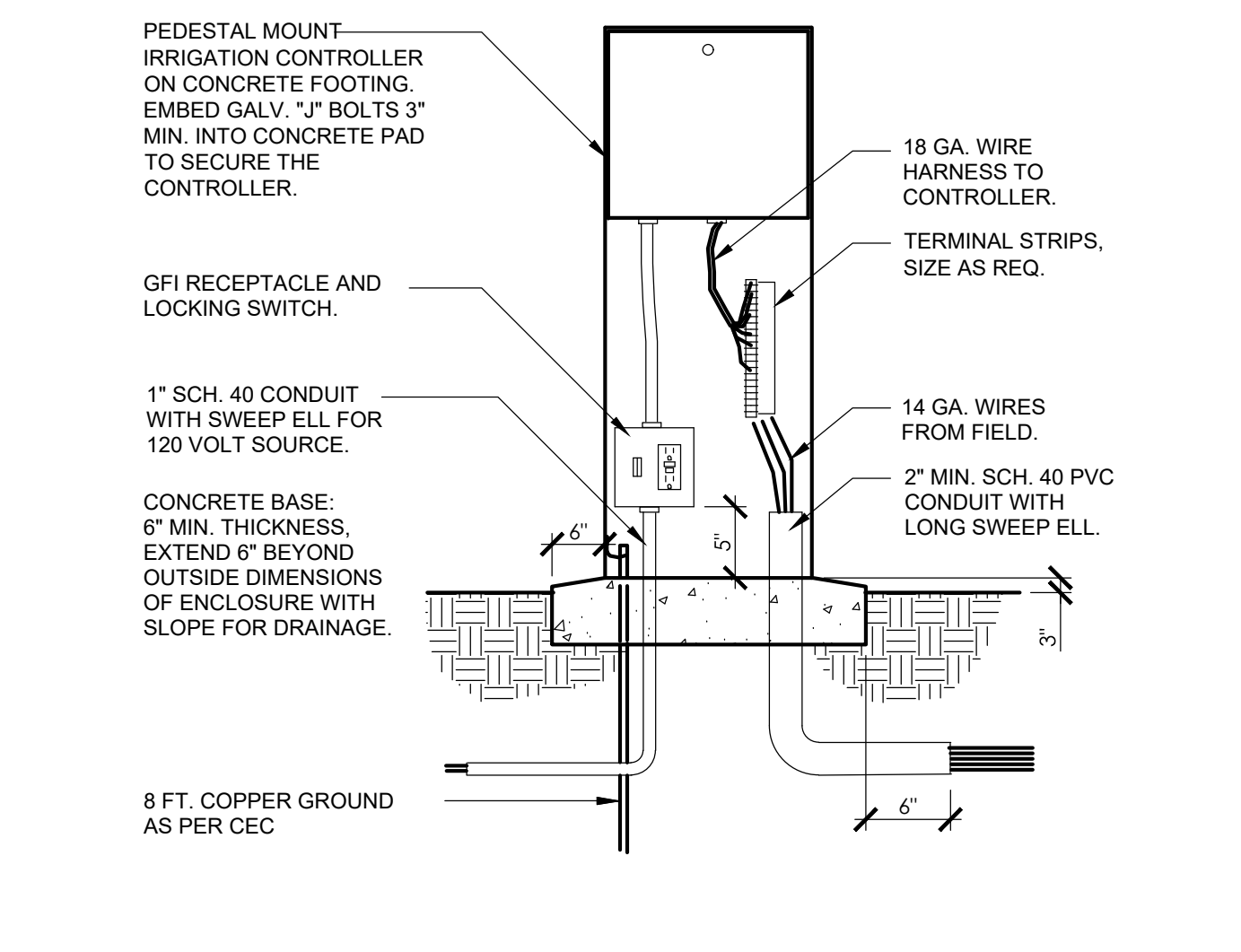
**10 POP-UP SPRAY HEAD**  
3" = 1'-0" RRM-1700-1725.02-16



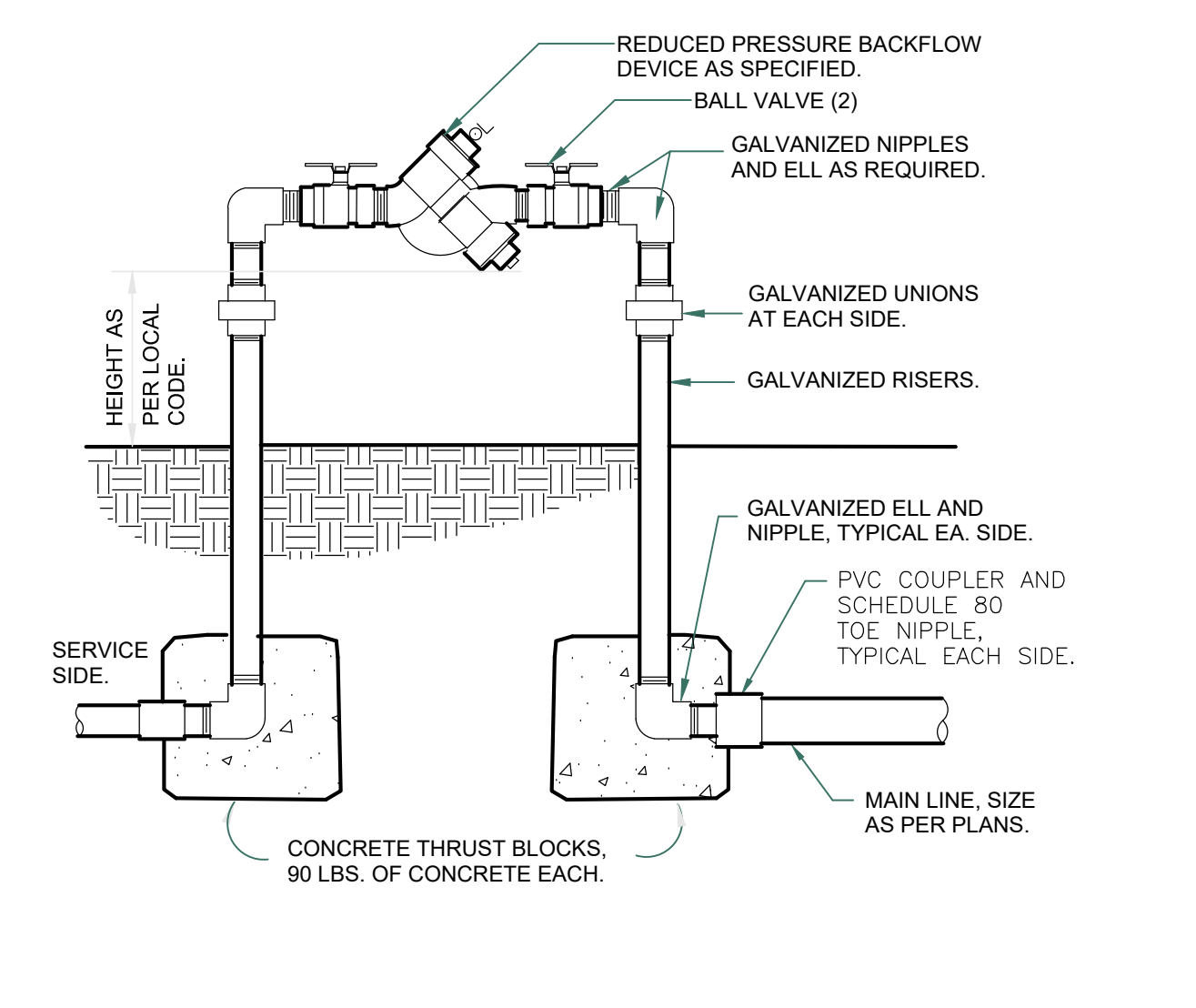
**8 POP-UP ROTOR**  
1 1/2" = 1'-0" RRM-SK-28



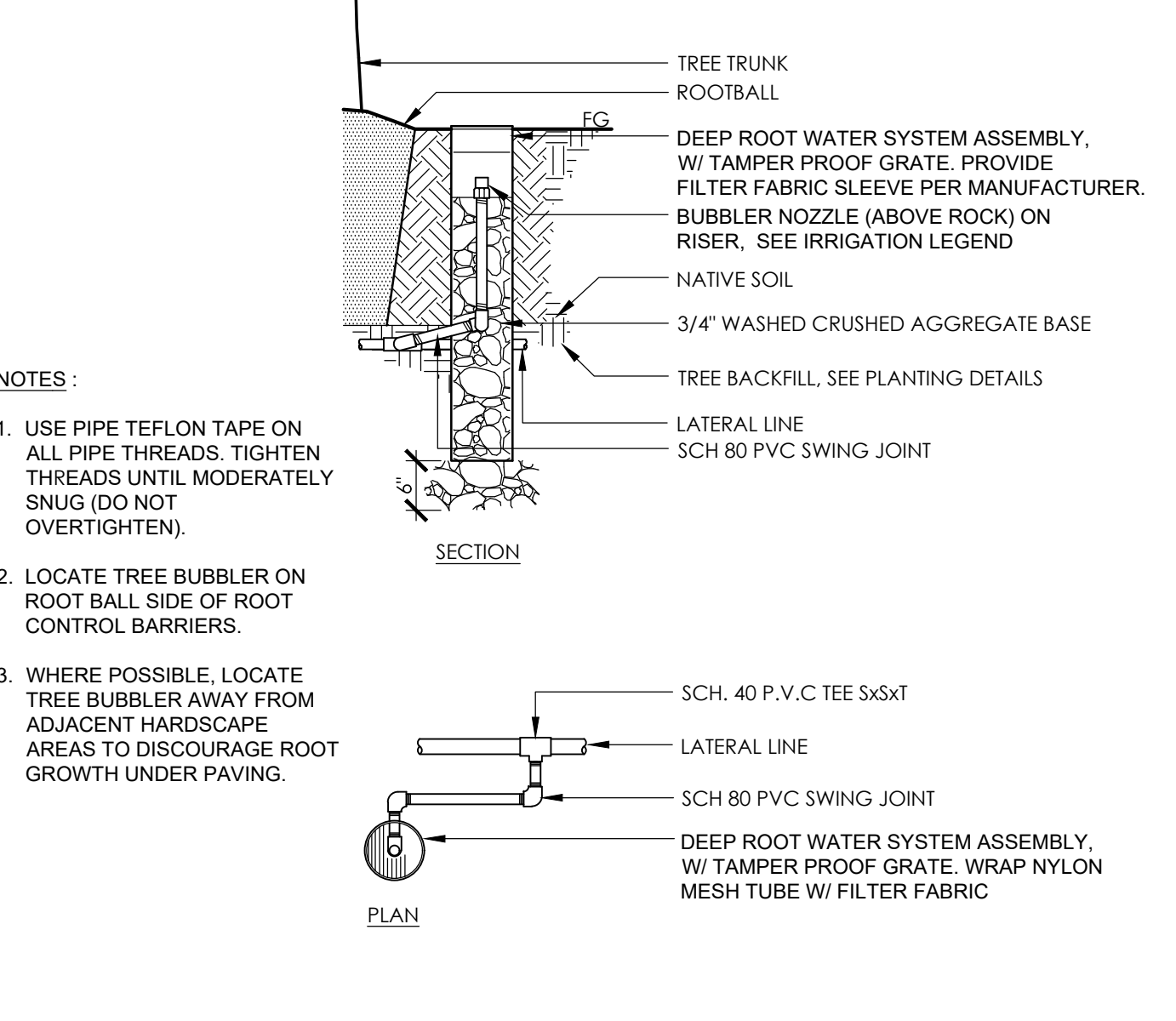
**5 WIRING CONNECTIONS**  
1 1/2" = 1'-0" RRM-SK-06



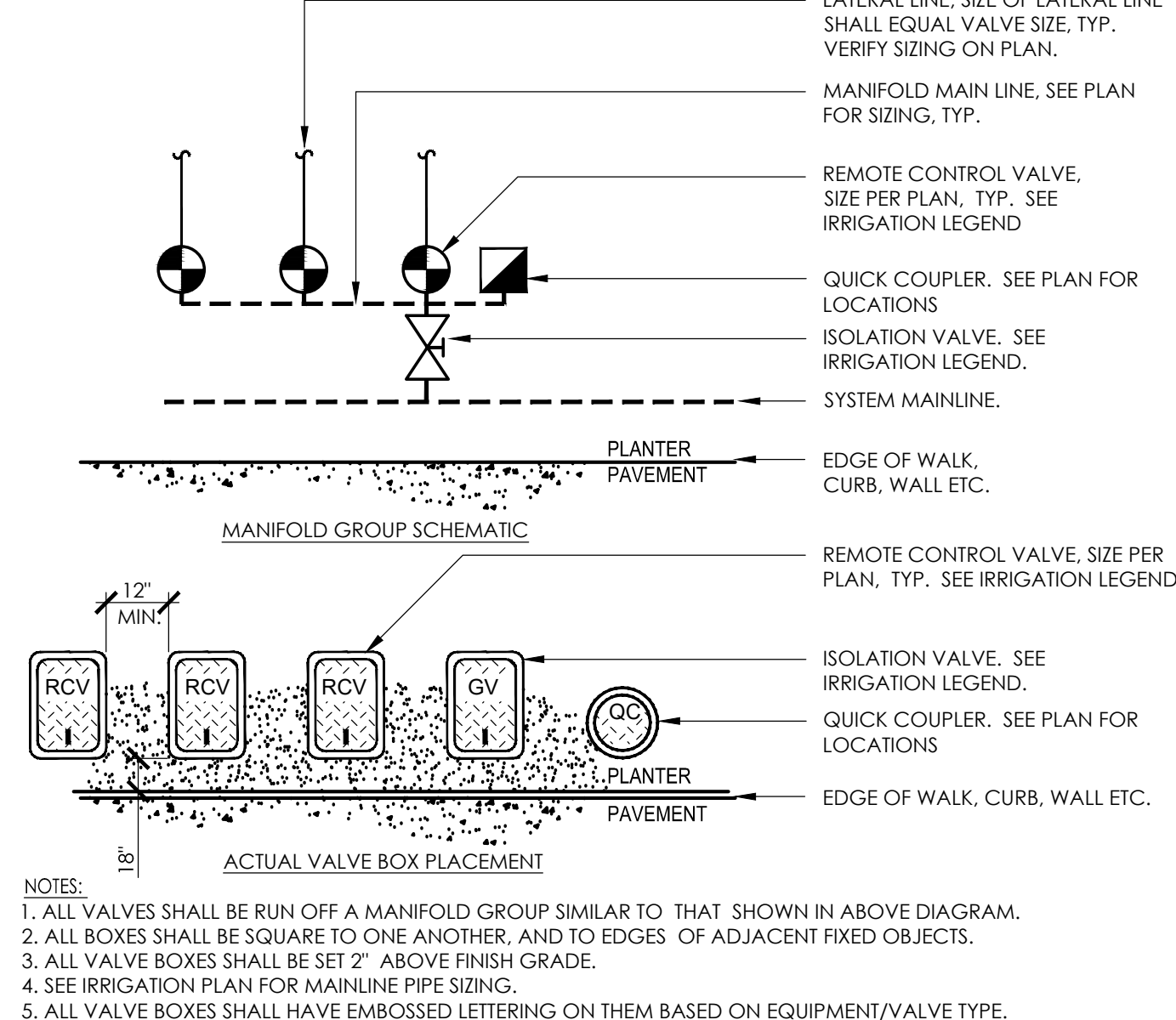
**2 PEDESTAL MOUNTED CONTROLLER**  
1" = 1'-0" RRM-SK-91



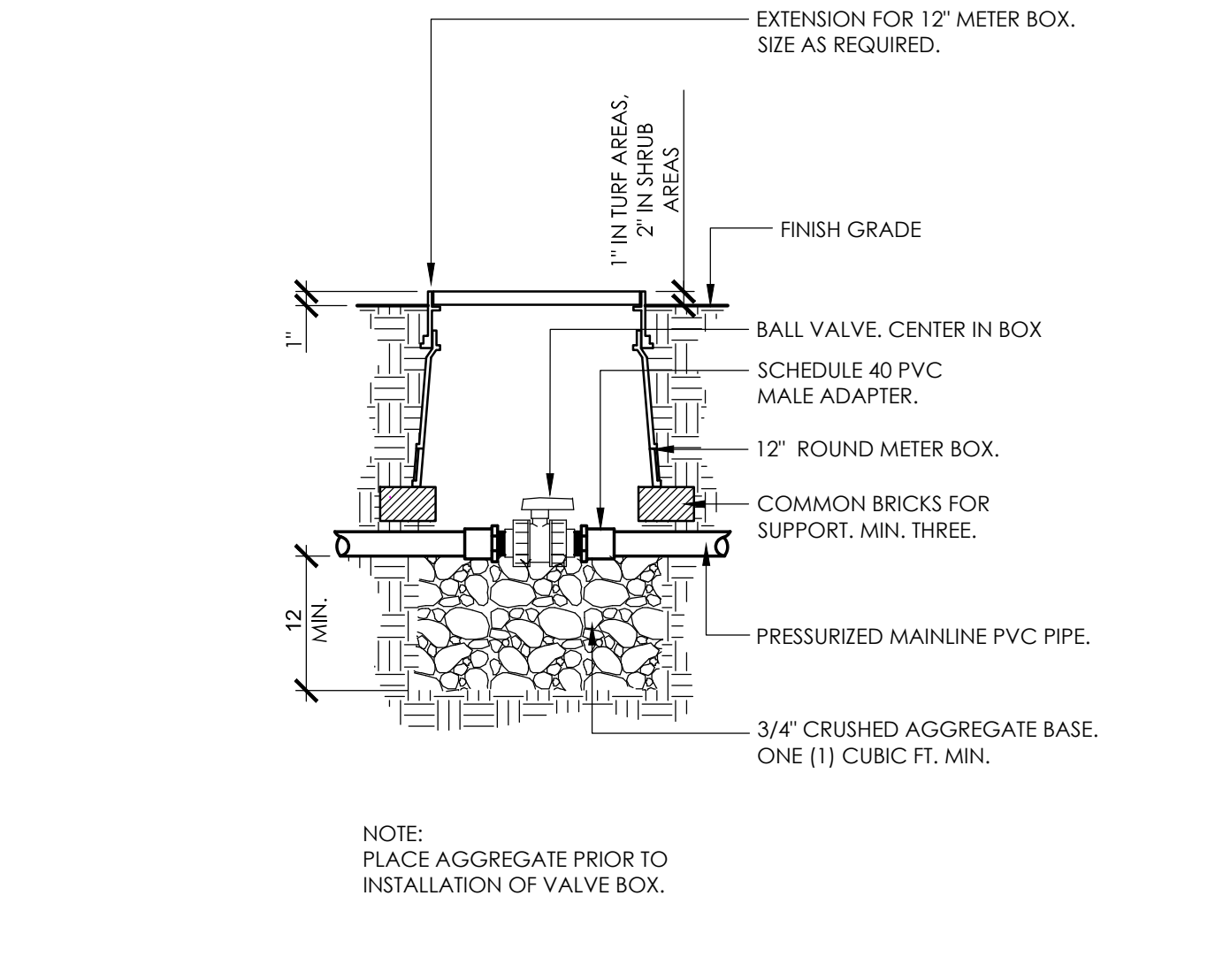
**9 REDUCED PRESSURE BACKFLOW DEVICE**  
1" = 1'-0" RRM-SK-01



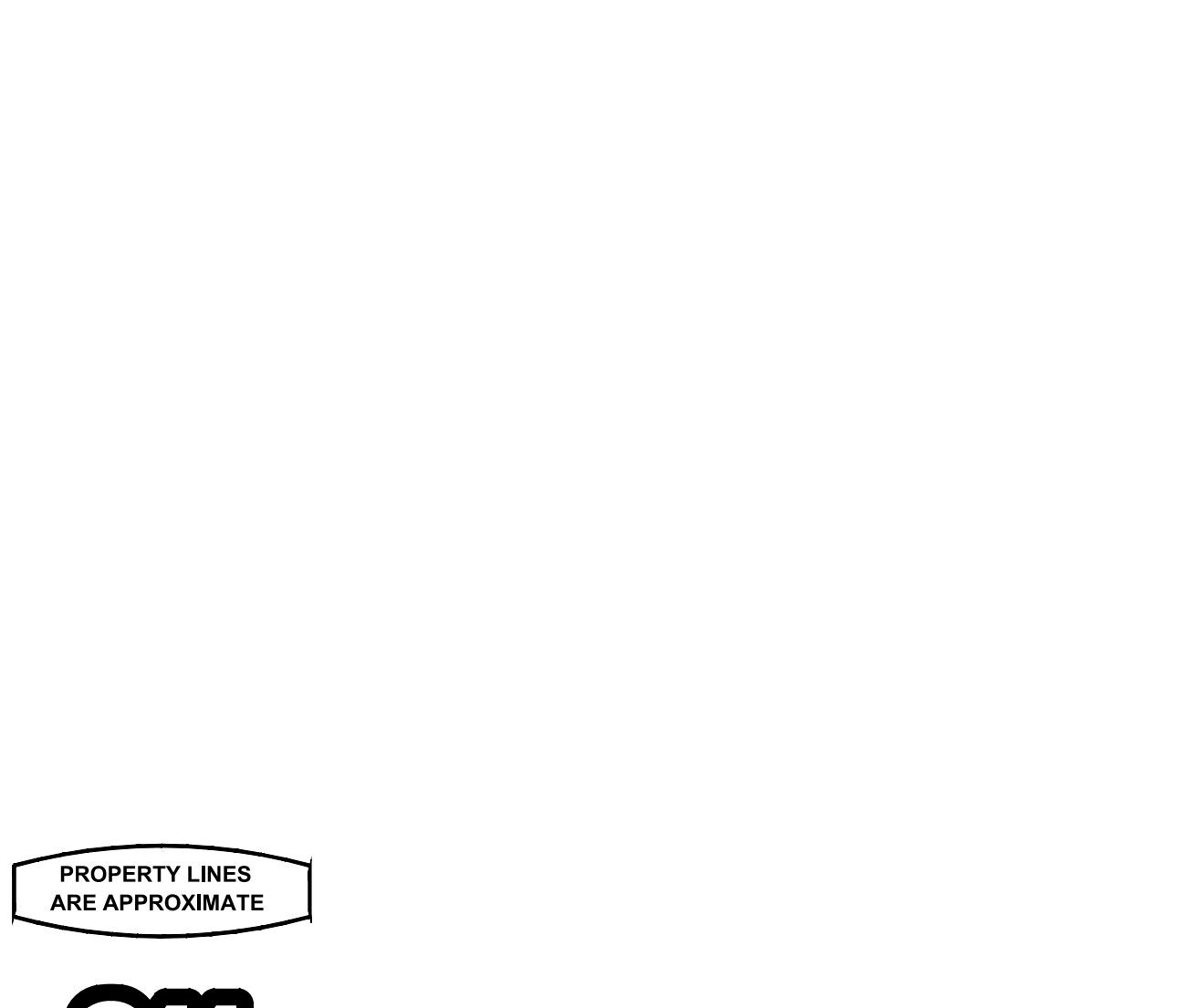
**7 DEEP ROOT TREE BUBBLER**  
3/4" = 1'-0" RRM-SK-34



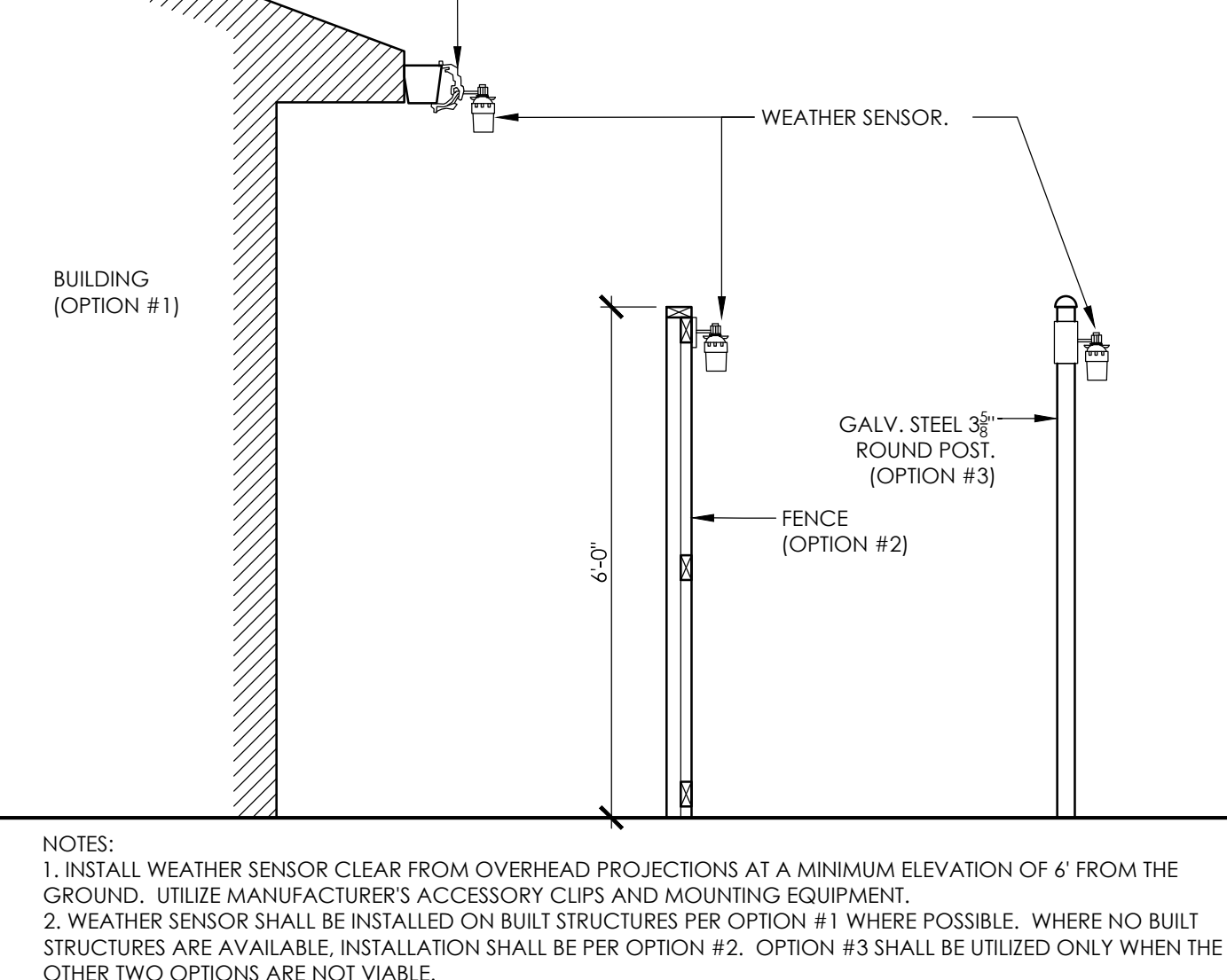
**4 VALVE BOX LAYOUT IN PLANTERS**  
3/8" = 1'-0" RRM-SK-05



**1 BALL VALVE**  
1" = 1'-0" RRM-SK-10



**6 REMOTE CONTROL VALVE**  
1" = 1'-0" RRM-0801-KN-10

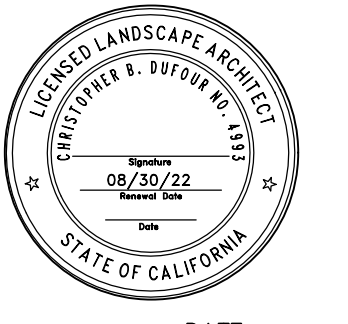


**3 WIRELESS RAIN SENSOR**  
1/2" = 1'-0" RRM-SK-04

PROPERTY LINES ARE APPROXIMATE



Know what's below.  
Call before you dig.



PROJECT ENGINEER DATE