TWAIN HARTE COMMUNITY SERVICE DISTRICT - OFFICE AND TRAINING SITE STORMWATER IMPROVEMENTS

CLIENT

TWAIN HARTE COMMUNITY SERVICE DISTRICT 2912 VANATAGE POINT DR. TWAIN HARTE, CA, 95383

PROJECT TEAM

WATERSHED PROGRESSIVE

CENTRAL SIERRA OFFICE 18653 MAIN STREET GROVELAND, CALIFORNIA 95321

CENTRAL COAST OFFICE 206 N. SIGNAL ST., SUITE S OJAI, CA 93023

PRINCIPAL REGINA HIRSCH REGINA@H2OPROGRESSIVE.COM

PROJECT MANAGER NICOLE STERN, PLA NICOLE@H2OPROGRESSIVE.COM

BLACK WATER CONSULTING ENGINEERS, INC.

602 LYELL DRIVE MODESTO, CA 95356

CIVIL ENGINEER JEFF BLACK P.E JEFF@BLACKWATER-ENG.COM

PROJECT SUMMARY

THE TWAIN HARTE COMMUNITY STORMWATER ENHANCEMENT PROJECT (THCSEP) IS A COLLABORATIVE EFFORT TO PLAN FOR AND IMPLEMENT HYDROLOGICALLY CONNECTED STORMWATER TREATMENTS. THESE TREATMENTS WILL ADDRESS EXISTING DEFICIENCIES AND INCREASE RESILIENCE TO FUTURE CONDITIONS. THE TWAIN HARTE COMMUNITY SERVICES DISTRICT (THCSD) OFFICE PROJECT (LOCATED AT 22912 VANTAGE POINT DR, TWAIN HARTE, CA) IS ONE OF THE TWAIN HARTE COMMUNITY STORMWATER ENHANCEMENT PROJECTS.

THE GOALS OF THE THCSEP AND THCSD OFFICE PROJECT ARE TO MITIGATE HAZARDS AND PROVIDE MULTIPLE BENEFITS TO THE WATERSHED AND SURROUNDING REGION. THESE MULTI-BENEFIT GOALS INCLUDE:

- INCREASED TREATMENT OF STORMWATER RUNOFF
- INCREASED WATER SUPPLY RELIABILITY
- IMPROVEMENT AND PROTECTION OF ENVIRONMENTAL HABITAT
- IMPROVEMENT OF STORMWATER SYSTEM CAPACITY (FLOOD MANAGEMENT)

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W6.1 WATER REUSE EQUIPMENT SCHEDULES

WATER REUSE DETAILS
WATER REUSE DETAILS

(E) EXISTING

ABBREVIATIONS

N) NEW

LOD LIMIT OF DISTURBANCE POC POINT OF CONNECTION

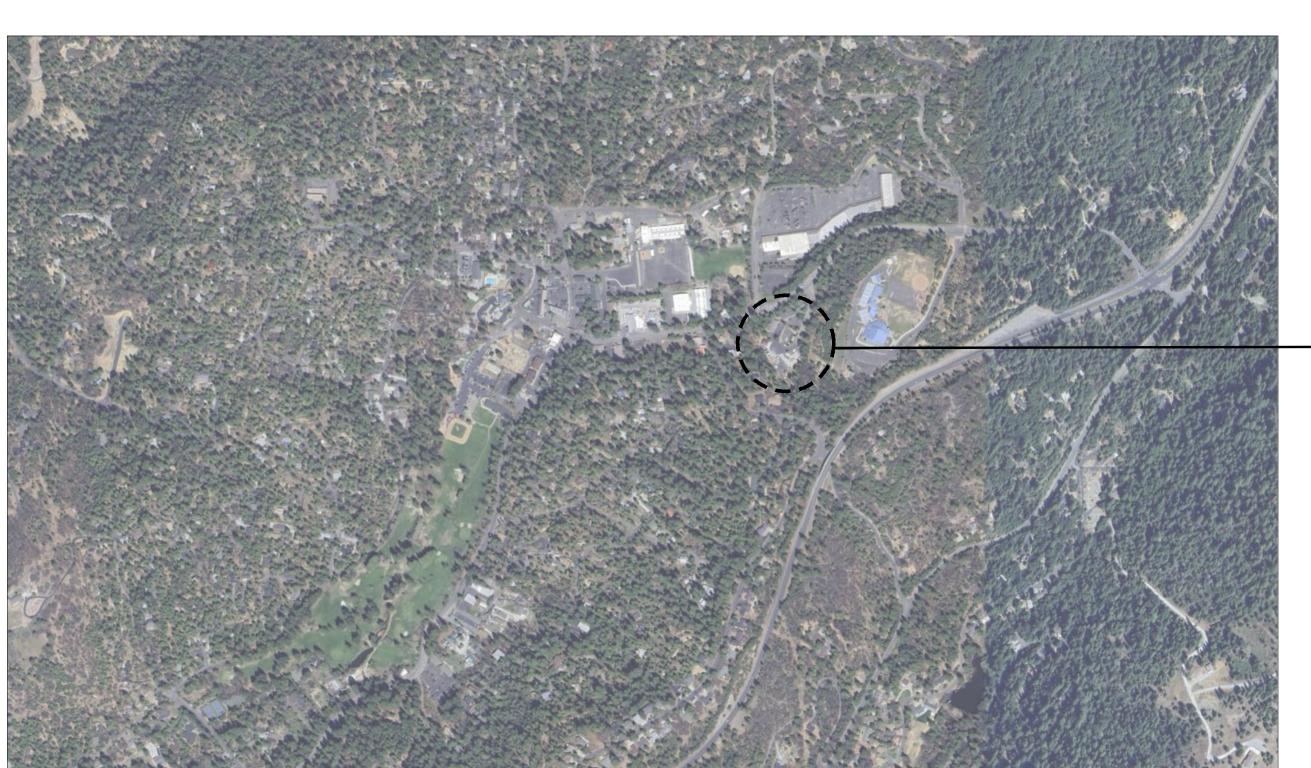
VAC AC VOLTAGE

CW COLD WATER RAINWATER

V STORMWATER

P LOW POINT P HIGH POINT

VICINITY MAP



PROJECT LOCATION MAP



PROJECT LOCATION

PROJECT VICINITY

N



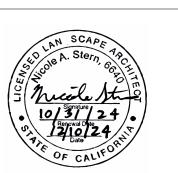


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 1 60% SUBMITTAL
 06.06.24

 2 100% SUBMITTAL
 06.26.24

 3 100% SUBMITTAL v2 07.05.24
 4100% SUBMITTAL v3 08.09.24

 5 100% SUBMITTAL v4 11.15.24

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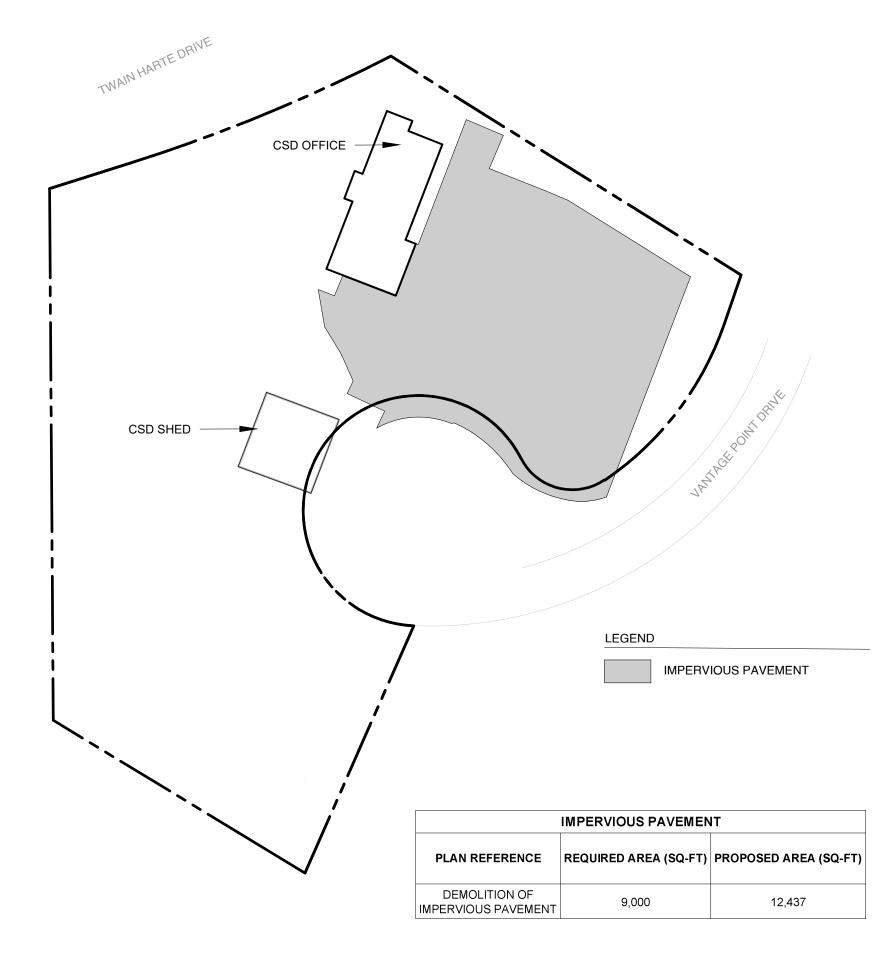
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EXHIBITS

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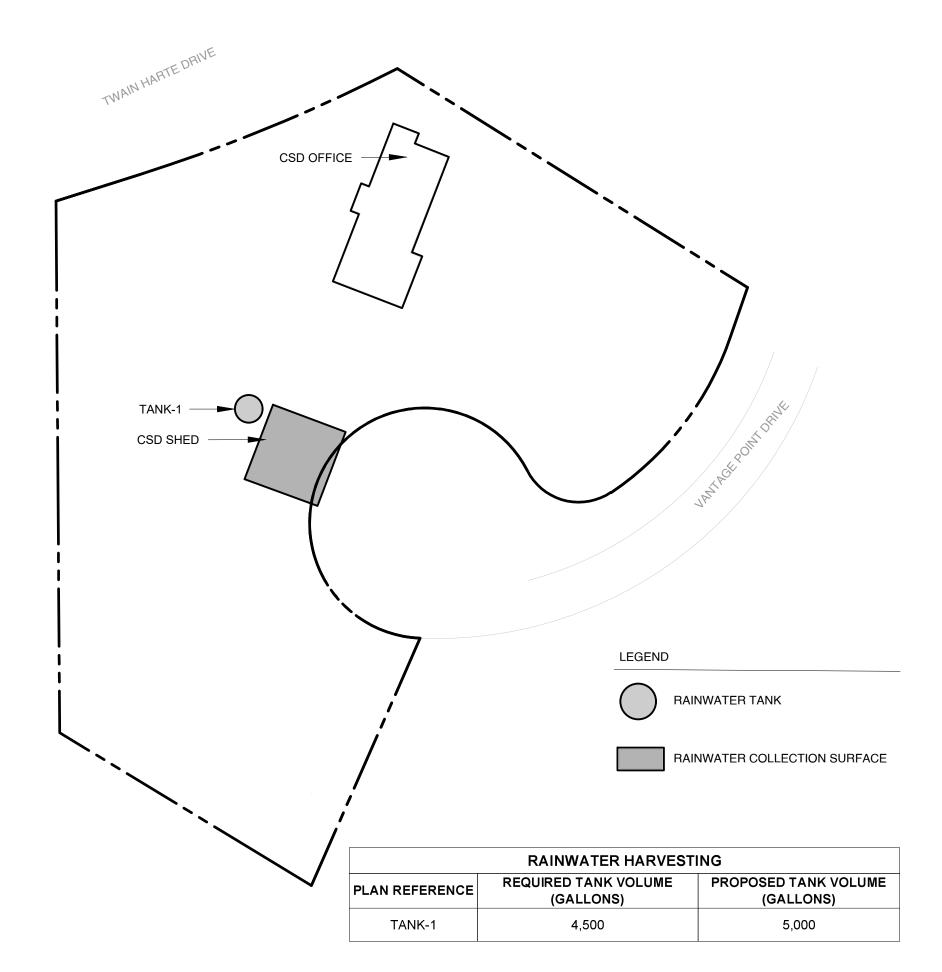


CSD OFFICE CSD SHED LEGEND PERMEABLE PAVEMENT PERMEABLE PAVEMENT PLAN REFERENCE REQUIRED AREA (SQ-FT) PROPOSED AREA (SQ-FT) 9,000 9,930 PERMEABLE PAVEMENT PROPOSED PERMEABLE PAVEMENT

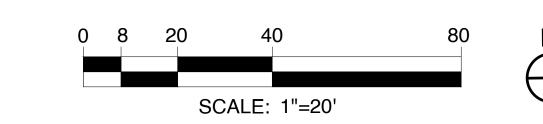
DEMOLITION IMPERVIOUS PAVEMENT

BIOSWALES AND RAIN GARDEN

CSD OFFICE CSD SHED -LEGEND RAIN GARDEN BIOSWALES **BIOSWALES AND RAIN GARDEN** REQUIRED AREA PROPOSED AREA PLAN REFERENCE (SQ-FT) (SQ-FT) 4,600 4,080 BIOSWALES 1,800 RAIN GARDEN 1,600 TWAIN HARTE MEADOWS 470 TOTAL 6,200 6,350



RAINWATER HARVESTING



GENERAL NOTES

——— OH ———

— w —

------ UG ------

—— EP ——

- A. ALL EXISTING TANKS, PIPING, AND ELECTRICAL WORK SHALL BE AVOIDED AND PROTECTED WHEN NECESSARY THROUGHOUT CONSTRUCTION.
- B. 811 KNOW WHAT'S BELOW CALL BEFORE YOU DIG
- C. TOPOGRAPHIC DATA SHOW IS BASED ON A SURVEY CONDUCTED BY DAVID RAGLAND, ENGINEERING AND LAND SURVEYING. THE ELEVATIONS SHOWN ON THIS SHEET ARE DERIVED FROM A FIELD SURVEY FROM MARCH 2024; THE BEARINGS AND DISTANCES ARE RECORD PER PARCEL MAP 28-98 AND R/S 41-97 NAVD88.
- D. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE CREATED TO REPRESENT THE CONCEPTS AS ASSOCIATED WITH ON-SITE WATER REUSE INSTALLATIONS. FOR ALL SITE DIMENSIONS AND EXACT RELATIVE LOCATIONS, FIELD CONDITION AS-BUILTS SHALL BE REQUESTED FROM THE PROPERTY OWNER.

LEGEND - SURVEY AND EXISTING CONDITIONS

	PROPERTY BOUNDARY
	EXISTING FENCE
- 1795 -	EXISTING CONTOURS
	EXISTING BUILDING
	EXISTING TREE(S)

EXISTING UNDERGROUND ELECTRICAL

EDGE OF PAVEMENT

EXISTING SEWER LINE

EXISTING OVERHEAD UTILITY

EXITING UNDERGROUND WATER

EXISTING UNDERGROUND COMMUNICATIONS



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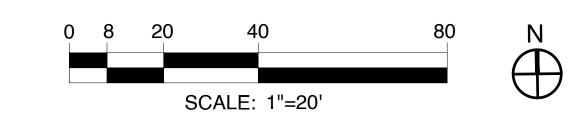
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EXISTING CONDITIONS

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PROPOSED CONDITIONS EXHIBIT



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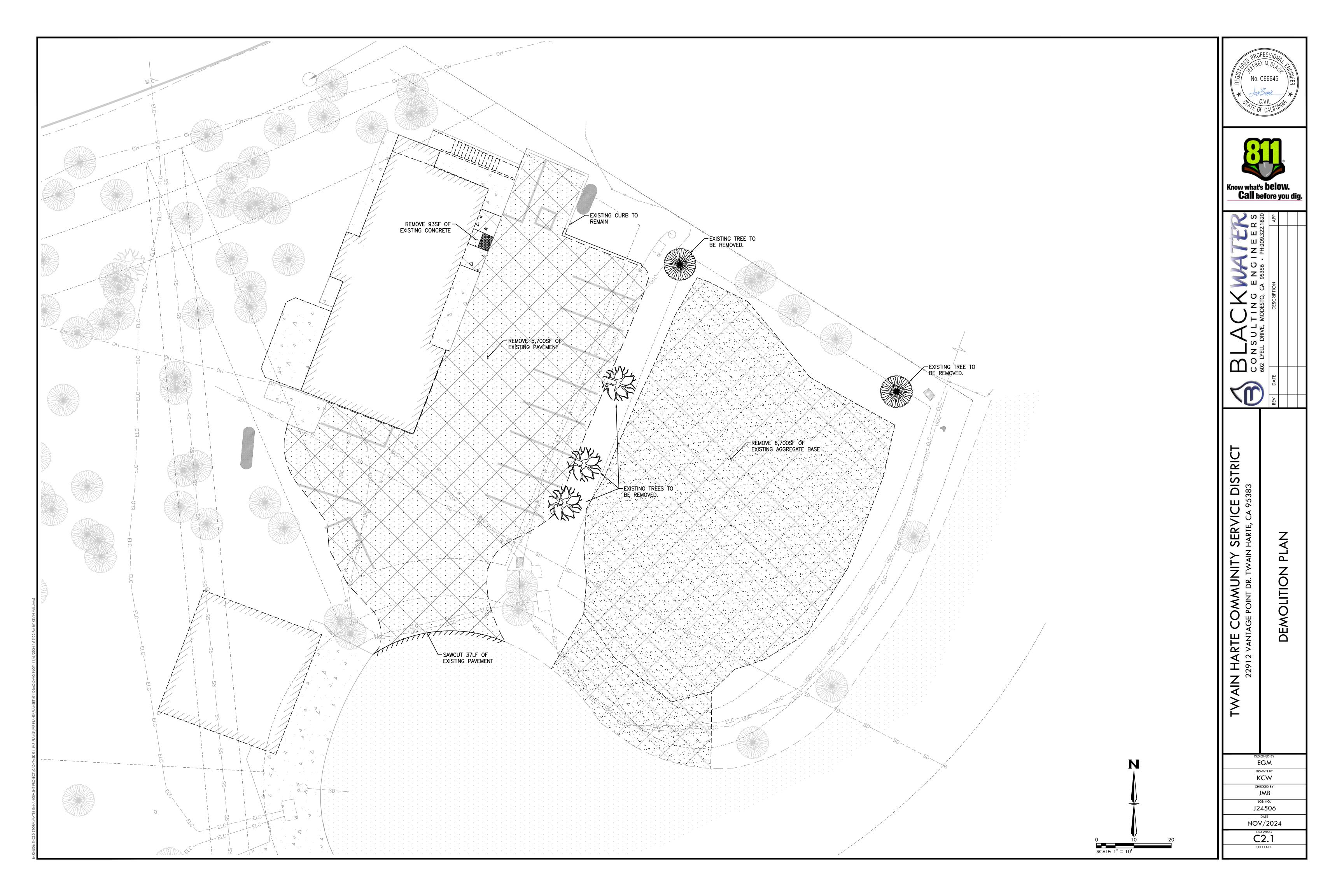
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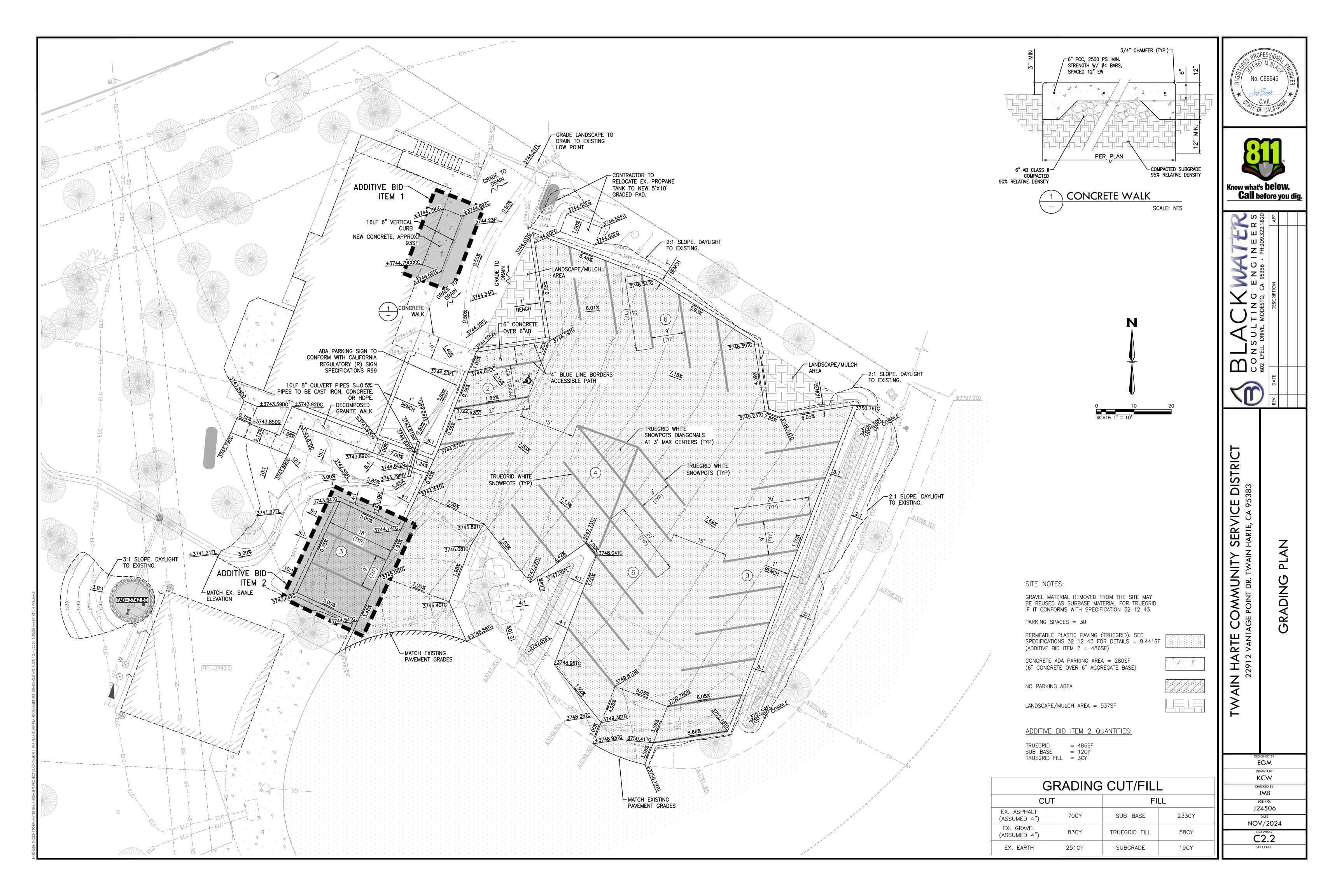
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PROPOSED CONDITIONS EXHIBIT

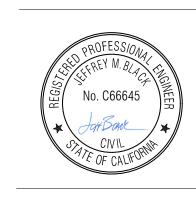
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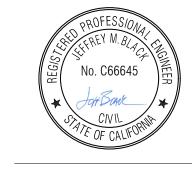
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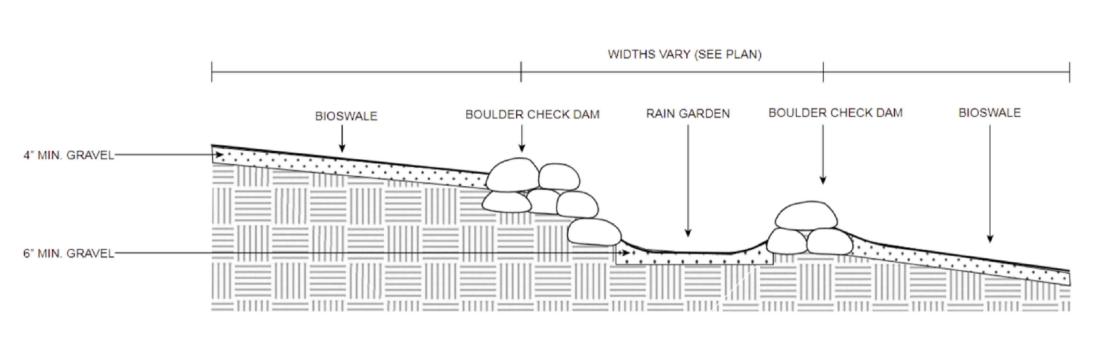
GRADING AND

DRAINAGE

DETAILS

← FINISHED GRADE

- 1' - 2' BOULDERS



CHECK DAM LONGITUDINAL SECTION
(N.T.S)

CHECK DAM CROSS SECTION

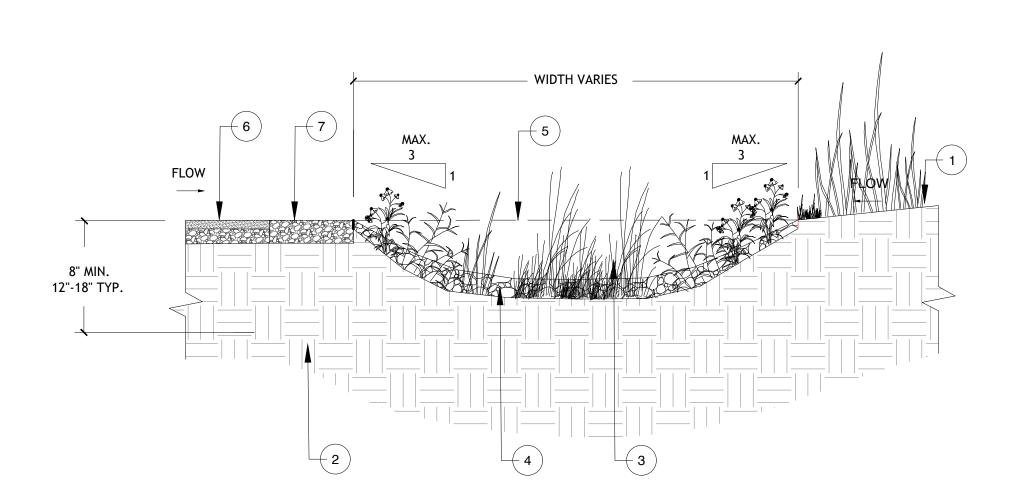
KEY ALL BOULDERS ON BOTTOM AND EDGES -

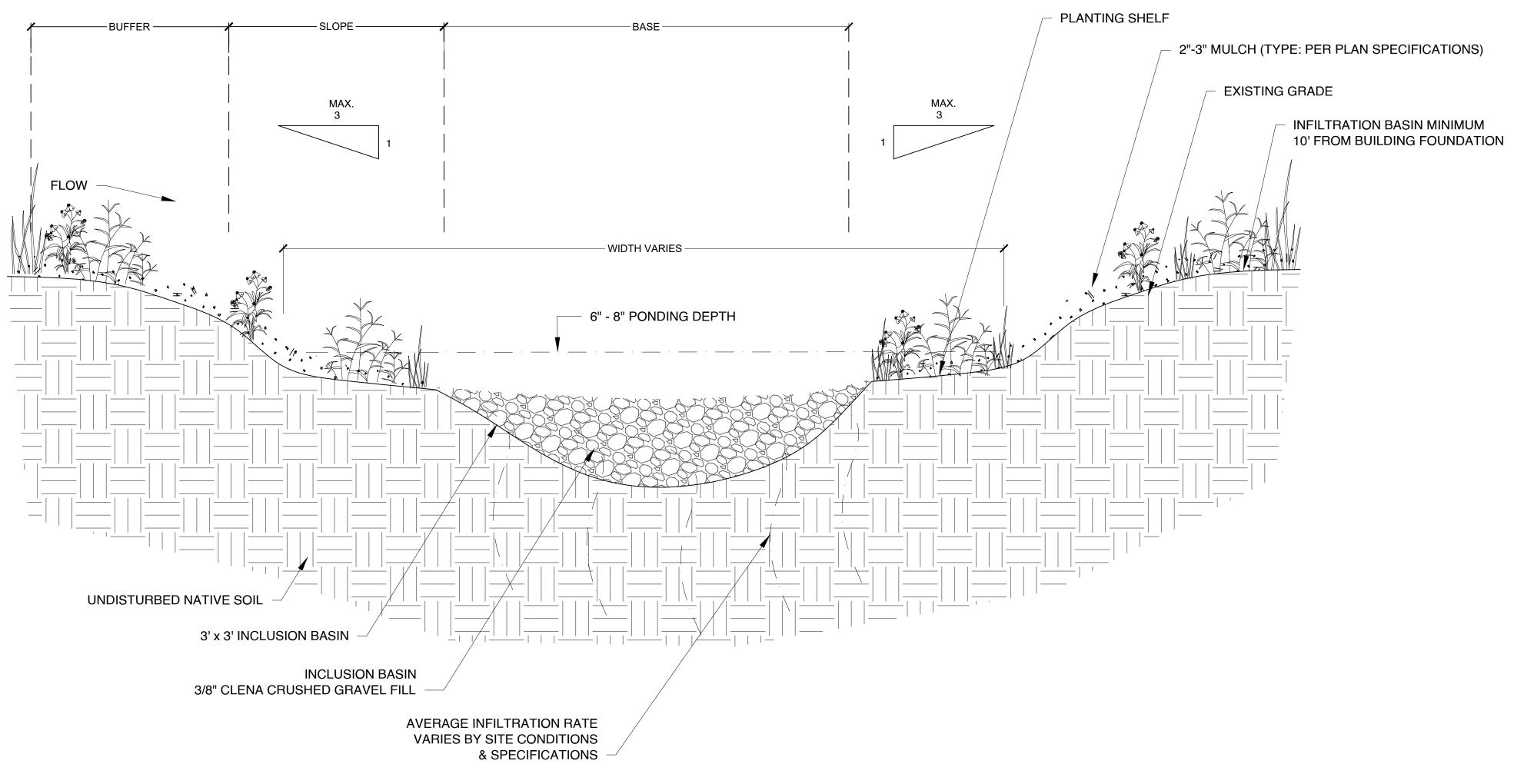
INTO SOIL AND BANK BY 1/3 THEIR SIZE

WIDTH VARIES (SEE PLAN)

DETAIL NOTES:

- 1) (E) GRADE ADJACENT SURFACES MAY VARY
- UNCOMPACTED SUB GRADE
- 3) NATIVE SWALE BASIN PLANTS REFERENCE PLANTING PLAN
- 4) GRAVEL MULCH, 4-6" 5) CONVEYANCE AREA
- 6) (E) PAVED SURFACE
- 7) 1' WIDE GRAVEL STRIP, 6" DEPTH MAXIMUM TO PREVENT DOWN CUTTING OF ASPHALT EDGE





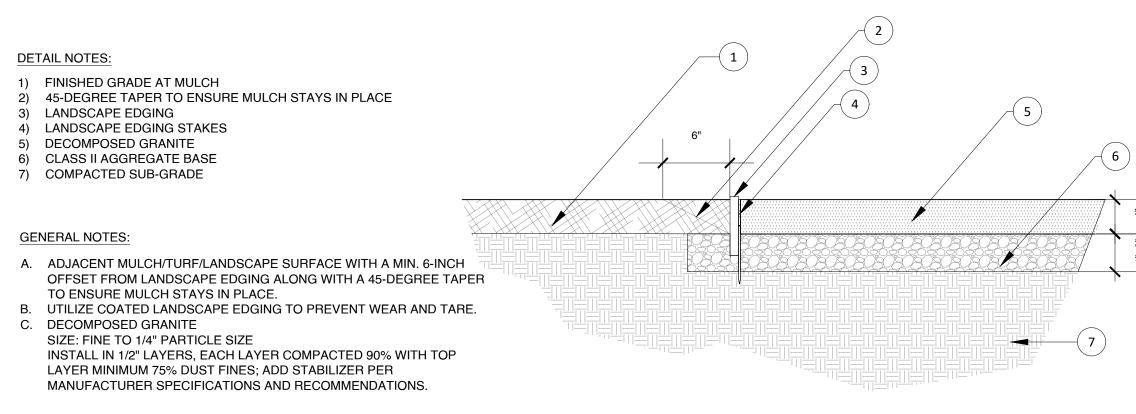
SECTION VIEW

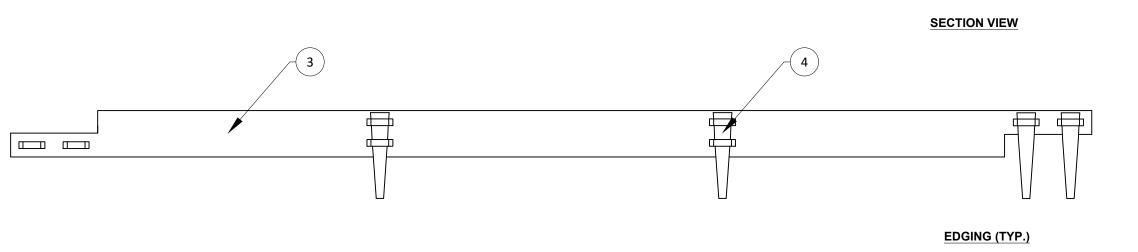
SHEET NO.:

BIOSWALE (TYP.)

4 RAIN GARDEN SECTION DETAIL (TYP.)









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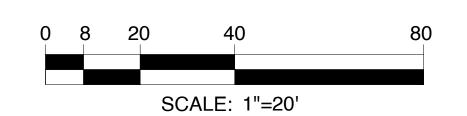
MATERIAL DETAILS

SHEET NO.:

C2.4

STORM DRAIN FL

SPOT ELEVATION





GENERAL NOTES

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IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD XCZ-100-IVM 1" WIDE FLOW IVM DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1IN. BALL VALVE WITH 1IN. PESBIVM SMART VALVE W/ FACTORY INSTALLED IVM-SOL 0.3-20 GPM AND 1IN. PRESSURE REGULATING 40PSI FLOW-INDICATING BASKET FILTER 0.3-20 GPM

PIPE TRANSITION POINT ABOVE GRADE PVC LATERAL TO DRIP TUBING

+ + + + + + + + + + + + + + + + + + + +	AREA TO RECEIVE DRIP EMITTERS 1/2IN. FEMALE THREADED POINT SOURCE DRIP EMITTER. COLOR CODED EMITTERS FOR FLOW RATES OF 0.5 GPH - 6.0 GPH. RECOMMENDED PRESSURE FROM 20 PSI-50 PSI.
	EMITTER NOTES: 05 EMITTERS (2 ASSIGNED TO EACH 1 GAL. PLANT)

05 EMITTERS (4 ASSIGNED TO EACH 15 GAL. PLANT)

MANUFACTURER/MODEL/DESCRIPTION

SHUTOFF VALVE

RAIN BIRD ESP-2WIRE (120VAC)
INDOOR/ OUTDOOR CONTROLLER W/ DECODER
AUTO-ADDRESS. STANDARD DIRECT BURIAL WIRE.

RAIN BIRD RSD-BEX
RAIN SENSOR, WITH METAL LATCHING BRACKET

RAINWATER POC W/MAKEUP MUNICIPAL WATER

IRRIGATION EMITTER LINE: POLY 1/2" TUBING

IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1"

IRRIGATION MAINLINE: PVC SCHEDULE 40

_____ PIPE SLEEVE: PVC CLASS 200 SDR 21

Valve Callout

• Valve Numl

" Valve Flow

SHEET NOTES

SYMBOL

- INSTALLATION OF DRIP EMITTERS: INSTALL DRIP EMITTERS QUANTITIES AS SPECIFIED IN IRRIGATION SCHEDULE BY PLANT SIZE.
- INSTALLATION OF IRRIGATION VALVES: INSTALL JUMBO VALVE BOX IN GROUND. REFERENCE IRRIGATION DETAILS FOR SPECIFICATIONS.
- 3. INSTALLATION OF PIPE SLEEVES UNDER PATHWAYS AS SPECIFIED IN PLAN AND SCHEDULE.



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SHEET NAME:

IRRIGATION PLAN

SHEET NO.:

L3.0

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>
	RAIN BIRD XCZ-100-IVM 1" WIDE FLOW IVM DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1IN. BALL VALVE WITH 1IN. PESBIVM SMART VALVE W/ FACTORY INSTALLED IVM-SOL 0.3-20 GPM AND 1IN. PRESSURE REGULATING 40PSI FLOW-INDICATING BASKET FILTER 0.3-20 GPM	1
	PIPE TRANSITION POINT ABOVE GRADE PVC LATERAL TO DRIP TUBING	4
	AREA TO RECEIVE DRIP EMITTERS 1/2IN. FEMALE THREADED POINT SOURCE DRIP EMITTER. COLOR CODED EMITTERS FOR FLOW RATES OF 0.5 GPH - 6.0 GPH. RECOMMENDED PRESSURE FROM 20 PSI-50 PSI.	3,780 s.f
	EMITTER NOTES: 05 EMITTERS (2 ASSIGNED TO EACH 1 GAL. PLANT)	500
	05 EMITTERS (4 ASSIGNED TO EACH 15 GAL. PLANT)	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
\bowtie	SHUTOFF VALVE	1
	RAIN BIRD ESP-2WIRE (120VAC) INDOOR/ OUTDOOR CONTROLLER W/ DECODER AUTO-ADDRESS. STANDARD DIRECT BURIAL WIRE.	1
	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET	1
坩	RAINWATER POC W/MAKEUP MUNICIPAL WATER	1
	IRRIGATION EMITTER LINE: POLY 1/2" TUBING	250 l.f.
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1"	50 l.f.
	IRRIGATION MAINLINE: PVC SCHEDULE 40	10 l.f.
=======	PIPE SLEEVE: PVC CLASS 200 SDR 21	20 l.f.

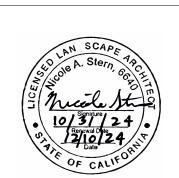
		Valve Call	out
7	# •		Valve Numb
#,"	#•		Valve Flow
-			Valve Size

IRRIGATION NOTES

- 1. READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS AND RELATED WORK PRIOR TO CONSTRUCTION.
- 2. COORDINATE UTILITY LOCATIONS ("CALL BEFORE YOU DIG 811") PRIOR TO CONSTRUCTION.
- 3. AREAS, AS IDENTIFIED TO HAVE NEW IRRIGATION SYSTEM, SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKMEN.
- 4. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, EXISTING TREES ETC, CONTRACTOR SHALL REFERENCE PLAN AND SPECIFICATIONS AS NOTED, FOR THE LOCATION, SIZE AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. EXACT LOCATIONS TO BE FILED DIRECTED. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR TO VERIFY LOCATION OF EXISTING TREES WHERE NEW IRRIGATION IS TO BE INSTALLED. ALL EXISTING TREES SHALL BE PROTECTED AGAINST EXCAVATION DAMAGE. CONTRACTOR TO REPAIR ANY DAMAGE CAUSED BY WORK AT NO ADDITIONAL COST TO THE OWNER.
- 5. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL WORK AND PLAN WORK ACCORDINGLY. FURNISHING SUCH FITTINGS, ETC. AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS. PLANTING AND ARCHITECTURAL FEATURES.
- 6. DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND NOTES OR SPECIFICATIONS ARE DISCOVERED, BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNERS' REPRESENTATIVE.
- 7. IRRIGATION SYSTEM DESIGNED FOR A MINIMUM 70 PSI (STATIC PRESSURE) TO BE PROVIDED AT THE FARTHEST HEAD FROM POINT OF CONNECTION. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNERS' AUTHORIZED REPRESENTATIVE. CONTRACTOR TO VERIFY PRESSURE ON SITE.
- 8. IRRIGATION POINT OF CONNECTIONS SHOWN ON PLAN MUST BE VERIFIED AT THE SITE. COORDINATE WITH EXISTING UTILITIES PLAN FOR RE-LOCATING POINT OF CONNECTION TO A LOCATION WHICH BEST SUITS SITE CONDITIONS AND IRRIGATION ZONE REQUIREMENTS.
- 9. SLEEVE MAINLINE AND LATERALS UNDER ALL PAVING AND WALLS. REFERENCE SCHEDULE FOR SIZE, TYPE AND QUANTITIES.
- 10. ALL IRRIGATION MAINLINES AND LATERALS TO BE TRENCHED AND BURIED SUB-SURFACE.
- 11. UN-SIZED LATERAL LINE PIPE DOWNSTREAM FROM SIZED PIPE SHALL BE 1-1/2" FOR VALVE LATERALS OR 1/2" FOR DRIP/FMITTER LATERALS.
- 12. SPLICING OF 24-VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN. TAPE WIRE IN BUNDLES 10 FEET ON CENTER. NO TAPING PERMITTED INSIDE SLEEVES.
- 13. ALL MAIN LINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION EQUIPMENT. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FROM THE LINES.
- 14. NOTIFY OWNER'S REPRESENTATIVE OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL THE INSTRUCTIONS ARE OBTAINED.
- 15. ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL, BACKFILL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED 8" LOOSE DEPTH. AND COMPACTED TO A MINIMUM OF 95 PERCENT OF STANDARD MAXIMUM DENSITY (ASTM D 698). CONTRACTOR TO REPAIR ALL SETTLED TRENCHES PROMPTLY.
- 16. OPERATE IRRIGATION BETWEEN THE HOURS OF 10:00 PM AND 8:00 AM AND/OR PER AVAILABLE EXISTING SCHEDULE WITHIN THE HOURS SPECIFIED.
- 17. 1" RAINWATER LINE TO BE USED AS IRRIGATION POINT OF CONNECTION / MAIN LINE.
- 18. PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT:
 - OPERATING KEYS/CONTROL MEASURE FOR EACH OPERATED VALVE(S).
 - II. SERVICING WRENCH OR TOOL NEEDED FOR COMPLETE ACCESS, ADJUSTMENT, AND REPAIR OF ALL VALVES/IRRIGATION EQUIPMENT.
- 19. TO BE NOTED: PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES.
- 20. TO BE NOTED: DUE TO GRADE AND ELEVATION CONSTRAINTS, CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED ON ALL NODES WHERE LOW POINT DRAINAGE COULD OCCUR.
- 21. TO BE NOTED: REGARDING PIPE SIZING IF A SECTION OF UN-SIZED PIPE IS LOCATED BETWEEN THE IDENTICALLY SIZED SECTIONS, THE UN-SIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UN-SIZED PIPE SHOULD SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND.
- 22. TO BE NOTED: AREAS TO RECEIVE DRIP LINE/GRID SHALL HAVE DRIP TUBE FLUSH VALVES AT THE LOWEST ELEVATION RELATIVE TO THE IRRIGATION VALVE POINT OF CONNECTION AND DRIP TUBE AIR RELIEF VALVES AT THE HIGHEST POINT RELATIVE TO THE IRRIGATION VALVE POINT OF CONNECTION.
- 23. ALL POINT SOURCE EMITTER POLY LINES SHALL ALSO RECEIVE FLUSH VALVES AND AIR VALVES RELATIVE TO THE IRRIGATION VALVE POINT OF CONNECTION.
- 24. REFER TO PLANTING PLAN FOR PLANT MATERIAL NAMES, ABBREVIATIONS, SPECIFIC SIZES, ON-CENTER SPACING, AND ADDITIONAL INFORMATION.
- 25. DO NOT INSTALL DRIP LINE TUBING UNDER PAVED SURFACES. CONNECT DRIP LINE TUBING TO SCHEDULE 40 PVC LATERAL LINE PIPING FOR ROUTING UNDER PAVED SURFACES AND SCHEDULE 80 PVC PIPING FOR ROUTING THROUGH PLANTER WALLS. ADAPT DRIP LINE TUBING TO PVC PIPING AS REQUIRED WITH COMPRESSION ADAPTER FITTINGS.
- 26. REFERENCE PIPE TRANSITION POINTS FOR ADAPTING PVC TO DRIP TUBING AND POLY TUBING FOR
- 27. MANUAL SHUT OFF VALVES SHALL BE REQUIRED AND INSTALLED AT EACH POINT OF CONNECTION PRIOR TO IRRIGATION VALVE MANIFOLD.



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PROJECT NO.

1 60% SUBMITTAL 06.06.24 2100% SUBMITTAL 06.26.24 3100% SUBMITTAL v2 07.05.24 4100% SUBMITTAL v3 08.09.24 5100% SUBMITTAL v4 11.15.24

DESIGN BY:MS DRAWN BY:MS

REVIEW BY:NS

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SHEET NAME:

IRRIGATION SCHEDULE NOTES

SHEET NO .:

PROJECT NO.

DESIGN BY:MS

DRAWN BY:MS

REVIEW BY:NS

SHEET NAME:

SHEET NO.:

 REVISION
 DATE

 1 60% SUBMITTAL
 06.06.24

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 SUBMITTAL
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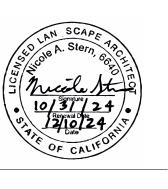
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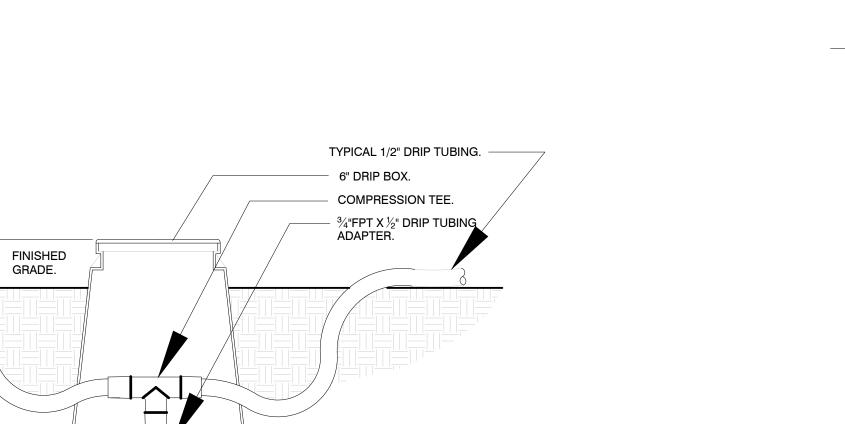
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IRRIGATION

DETAILS



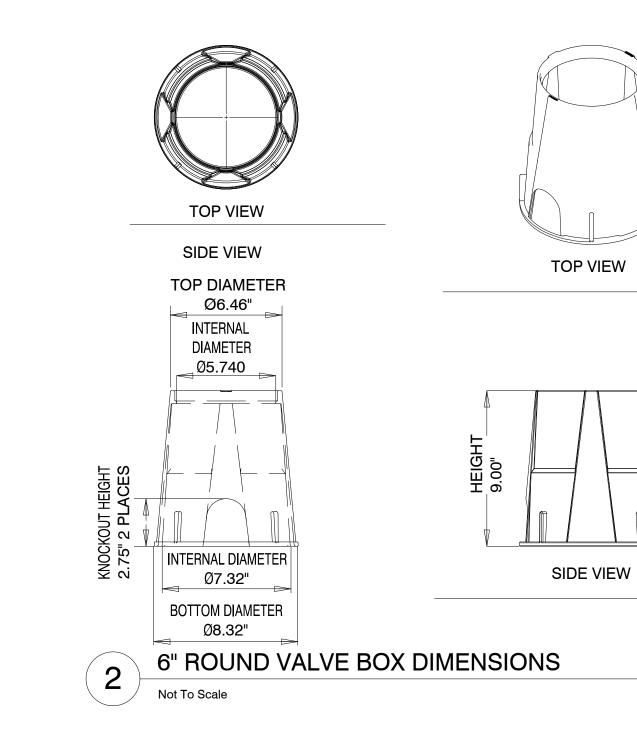


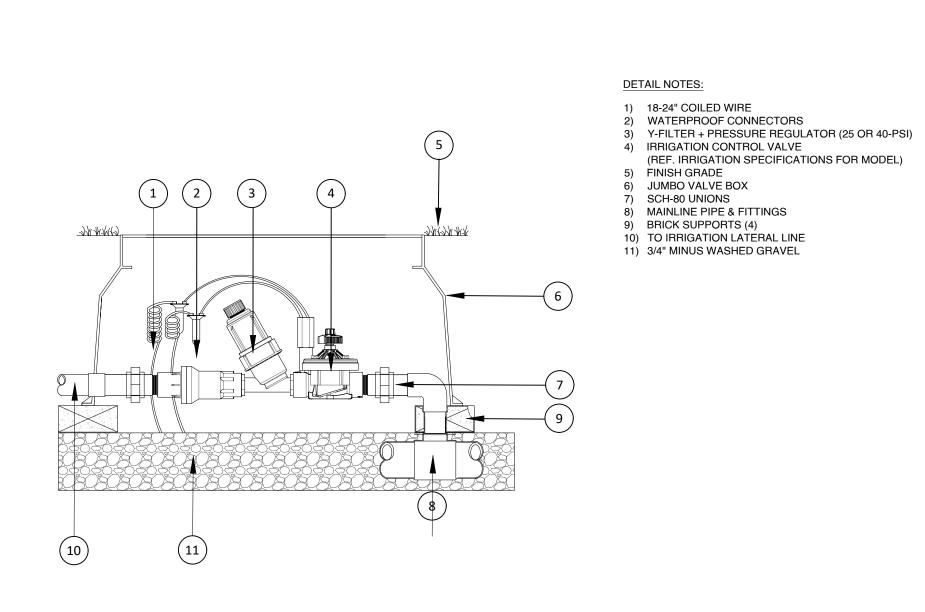
3" THICK LAYER OF WASHED GRAVEL. THE BOX SHALL REST UPON THE ROCK BED. DO NOT EXTEND GRAVEL INTO BOX.

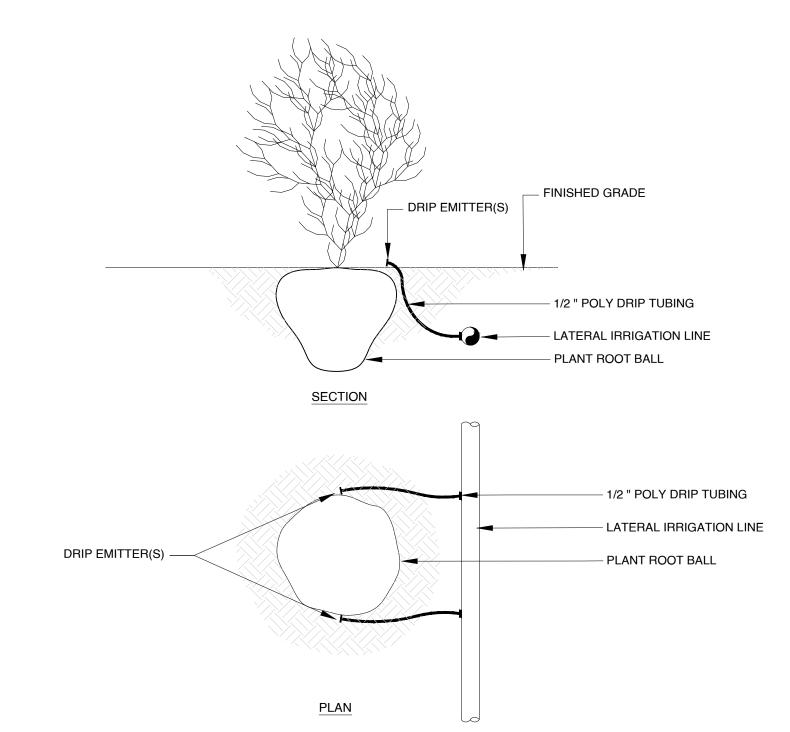
- ¾" SCHEDULE 80 NIPPLE AS REQUIRED.

PVC LATERAL LINE.

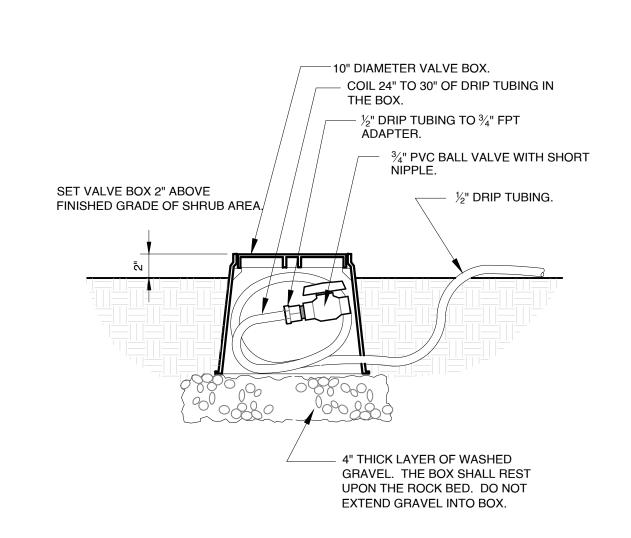












END VIEW

BOTTOM OPENING

17.45"

MAXIMUM BOTTOM

DIMENSION

20.97"

KNOCKOUT HEIGHT

7.87" 2 PLACES

HEIGHT

12.10"

JUMBO VALVE BOX DIMENSIONS

TOP VIEW

MAXIMUM TOP DIMENSION

22.31"

TOP OPENING

18.66"

SIDE VIEW

BOTTOM OPENING

24.04"

MAXIMUM BOTTOM

DIMENSION

27.59"



IRRIGATION CONTROL VALVE W/ FILTER + UNIONS



GENERAL NOTES

- A. ALL EXISTING TANKS, PIPING, AND ELECTRICAL WORK SHALL BE AVOIDED AND PROTECTED WHEN NECESSARY THROUGHOUT CONSTRUCTION.
- B. 811 KNOW WHAT'S BELOW CALL BEFORE YOU DIG
- C. TOPOGRAPHIC DATA SHOW IS BASED ON A SURVEY CONDUCTED BY DAVID RAGLAND, ENGINEERING AND LAND SURVEYING. THE ELEVATIONS SHOWN ON THIS SHEET ARE DERIVED FROM A FIELD SURVEY FROM MARCH 2024; THE BEARINGS AND DISTANCES ARE RECORD PER PARCEL MAP 28-98 AND R/S 41-97 NAVD88.
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LEGEND

APPROXIMATE PROPERTY BOUNDARY

----- EXI

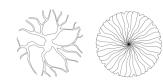
EXISTING FENCE

EXISTING CONTOURS

RAINWATER COLLECTION SURFACE



ROCK CHECK DAM



EXISTING TREE(S)



SYMBOL BOTANICAL NAME COMMON NAME

TKEES A STATE OF THE STATE OF T

Acer macrophyllum Big Leaf Maple



Populus tremuloides Quaking Aspen

Serviceberry





Amelanchier alnifolia



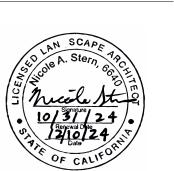




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GROVELAND, CALIFORNIA 95321

OJAI OFFICE 206 N. SIGNAL ST., SUITE S OJAI, CALIFORNIA 93023



Harte Community Service District 22912 Vantage Point Dr. Twain Harte, CA 95383

DATE: PROJECT NO.

 REVISION
 DATE

 1 60% SUBMITTAL
 06.06.24

 2 100% SUBMITTAL
 06.26.24

 3 100% SUBMITTAL v2
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 08.09.24

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 11.15.24

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DRAWN BY:MG, MS
REVIEW BY:NS

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SHEET NAME:

PLANTING ZONES PLAN

SHEET NO.:

L5.0







PLANT SCHEDULE

SYMBOL	BOTANICAL NAME	COMMON NAM
TREES		
	Acer macrophyllum	Big Leaf Maple
E CONTROL OF THE PROPERTY OF T	Amelanchier alnifolia	Serviceberry
	Populus tremuloides	Quaking Aspen
man and a defendent of the second	Calocedrus decurrens	Incense Cedar

EXISTING TREE(S)

PHKUR2		
	Cornus sericea	Red Twig Dogwo
	Eriogonum fasciculatum	California Buckw
•	Eriogonum umbellatum	Sulfur Buckwhea
	Mimulus aurantiacus	Bush Monkey Flo
+	Penstemon heterophyllus	Beardtongue

SCALE: 1"=10'

**************************************	Arctostaphylos uva-ursi	Bearberry
SYMBOL	BOTANICAL NAME	COMMON NAM

GROUND COVERS

Native Seed Plant Mix Native Seed Plant Mix

NATIVE SEED PLANT MIX FOR RAIN GARDEN	
COMMON NAME	
Common Yarrow	
Berkley Sedge	
Canyon Prince Giant Wild	
Blue Eyed Grass	

DATE:	
PROJECT NO.	

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SHEET NAME:

PLANTING PLAN

SHEET NO.:

SITE PREPARATION

- CONTRACTOR SHALL BE AWARE OF ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES FOR FIELD LOCATION OF UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY OF ANY COST.
- 2. DO NOT PROCEED WITH CONSTRUCTION AS DESIGNED IF OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF WATERSHED PROGRESSIVE PROJECT MANAGER. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
- SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.

SOIL PREPARATION

- 4. PRIOR TO STARTING WORK, CONTRACTOR SHALL TAKE SOIL SAMPLES WHERE DIFFERENT SOIL TYPES ARE ENCOUNTERED ON THE PROJECT SITE. SOIL SHALL BE ANALYZED BY AN APPROVED COMMERCIAL SOIL TESTING LABORATORY (TRI-C ENTERPRISES, 1-800-392-3311, OR FRUIT GROWERS LABORATORY, 805-392-2000), OR EQUAL, FOR SUITABILITY FOR ORNAMENTAL PLANTING. A COPY OF THE RESULTS OF THIS ANALYSIS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE SOILS LAB AS TO THE RATE AND ANALYSIS OF FERTILIZER & AMENDMENTS TO PROVIDE A SUITABLE MEDIUM FOR PLANTING. THE CONTRACTOR SHALL NOTIFY THE OWNER AND LANDSCAPE ARCHITECT OF ANY POTENTIAL PROBLEMS WHICH MAY RESULT DUE TO HARMFUL SUBSTANCES FOUND IN THE SOIL. FAILURE TO ACT AS SPECIFIED MAY RESULT IN THE CONTRACTOR ASSUMING FINANCIAL RESPONSIBILITY FOR ANY DAMAGE TO PLANTS.
- REMOVE ROCKS LARGER THAN 3" FROM PLANTING AREAS.
 FOR SOILS LESS THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES OF SOIL, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO A
- DEPTH OF SIX INCHES INTO THE SOIL.

 7. ON-SITE SOILS WITH AN ORGANIC CONTENT OF AT LEAST 5 PERCENT CAN BE PROPERLY STOCKPILED (TO MAINTAIN ORGANIC CONTENT) AND REUSED.
- 8. CONTRACTOR TO LOOSEN COMPACTED SOILS AND MIX SOIL AMENDMENTS AND CONDITIONERS TO A MINIMUM DEPTH OF 12 INCHES IN PLANTING AREAS.

FINISHED GRADES IN PLANTING AREAS

- . THE CONTRACTOR SHALL ALLOW FOR THE ADDITION OF SPECIFIED QUANTITIES OF SOIL AMENDMENTS AND CONDITIONERS IN SOIL PREPARATION AND FINISH GRADING.
- 10. THE LANDSCAPE ARCHITECT WILL APPROVE FINISH GRADES AT ALL LANDSCAPE AREAS PRIOR TO PLANTING.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE TO ESTABLISH THE SPECIFIED FINISHED ELEVATION, INCLUDING IMPORTING SOIL OR EXCAVATION, REMOVAL AND DISPOSAL AT AN APPROVED LOCATION. THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTARY AMENDED IMPORT SOIL IN ANY PLANTING AREAS AS NECESSARY TO ACHIEVE THE SPECIFIED FINISH PLANTING GRADES. IMPORTED SOIL SHALL BE FREE OF UNWANTED SEEDS.

PLANTING

- 12. COORDINATE INSTALLATION OF LARGE PLANT MATERIAL WITH INSTALLATION OF STRUCTURES SUCH AS WALL FOOTINGS, PAVEMENTS, AND CURB AND GUTTER. ANY DAMAGE TO IMPROVEMENTS BY OTHERS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 13. CONTRACTOR SHALL FURNISH PLANT MATERIAL FREE OF PESTS OR PLANT DISEASES. CONTRACTOR SHALL WARRANTY ALL PLANT MATERIALS PER THE SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE HEALTHY, VIGOROUS PLANT STOCK GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THE CONDITIONS IN THE LOCALITY OF THE PROJECT.
- 14. SPECIMEN TREES WILL BE SELECTED AND TAGGED BY LANDSCAPE ARCHITECT PRIOR TO PLANT INSTALLATION.
- 15. CONTRACTOR SHALL DO THEIR OWN QUANTITY TAKE-OFFS FOR ALL PLANT MATERIALS AND SIZES SHOWN ON PLANS.
- 16. ALL SUBSTITUTIONS SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.17. SEE DETAILS AND SPECIFICATIONS FOR STAKING METHOD, PLANT PIT
- DIMENSIONS AND BACKFILL REQUIREMENTS.

 18. DI ANT CROWN ELEVATIONS DELATIVE TO EINISH GRADE ARE SHOWN
- 18. PLANT CROWN ELEVATIONS RELATIVE TO FINISH GRADE ARE SHOWN ON PLANTING DETAILS AND SHALL BE STRICTLY ADHERED TO. PROPER COMPACTION OF BACKFILL TO PREVENT SETTLEMENT SHALL BE REQUIRED.
- 19. TREES AND SHRUBS SHALL BE INSTALLED PRIOR TO PLANTING GROUNDCOVER. ALL TREE LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE LANDSCAPE ARCHITECT.
- 20. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST THE LOCATION OF PLANT MATERIAL DURING INSTALLATION AS APPROPRIATE TO THE PROJECT.
- 21. A MINIMUM 3-INCH LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT TURF AREAS, CREEPING OR ROOTING GROUND COVERS, OR DIRECT SEEDING APPLICATIONS WHERE MULCH IS CONTRA-INDICATED. MULCH MUST BE APPROVED BY LANDSCAPE ARCHITECT.

PLANT SCHEDULE

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	WATER NEEDS		QTY
TREES						
	Acer macrophyllum	Big Leaf Maple	15 gal.	Medium		3
E CONTRACTOR OF THE PROPERTY O	Amelanchier alnifolia	Serviceberry	15 gal.	Medium		3
	Populus tremuloides	Quaking Aspen	15 gal.	Medium		4
Joseph John John John John John John John Joh	Calocedrus decurrens	Incense Cedar	15 gal.	Low		11
SHRUBS						
	Cornus sericea	Red Twig Dogwood	1 gal.	Medium		5
(•)	Eriogonum fasciculatum	California Buckwheat	1 gal.	Low		11
•	Eriogonum umbellatum	Sulfur Buckwheat	1 gal.	Low		11
(•)	Mimulus aurantiacus	Bush Monkey Flower	1 gal.	Low		48
+	Penstemon heterophyllus	Beardtongue	1 gal.	Low		54
GROUND (COVERS					
· · · · · · · · · · · · · · · · · · ·	Arctostaphylos uva-ursi	Bearberry	1 gal.	Low		110
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	WATER NEEDS	SPACING	QTY
GROUND (COVERS					
	Native Seed Plant Mix	Native Seed Plant Mix	Seed	Low		663 sf

NATIVE SEED PLANT MIX FOR RAIN GARDEN						
BOTANICAL NAME	COMMON NAME					
Achillea millefolium	Common Yarrow					
Carex divulsa "Berkeley Sedge"	Berkley Sedge					
Leymus condensatus 'Canyon Prince'	Canyon Prince Giant Wildrye					
Sisyrinchium bellum	Blue Eyed Grass					

NOTES: CENTRAL LEADER. 1- TREES SHALL BE OF QUALITY PRESCRIBED IN CROWN OBSERVATIONS AND ROOT OBSERVATIONS DETAILS AND SPECIFICATIONS. 2- SEE SPECIFICATIONS FOR FURTHER ROOT BALL SURFACE SHALL BE REQUIREMENTS RELATED TO THIS POSITIONED TO BE LEVEL WITH DETAIL. FINISHED GRADE. PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE TREE. DO NOT OVER COMPACT. WHEN THE PLANTING TRUNK CALIPER SHALL HOLE HAS BEEN BACKFILLED, POUR MEET ANSI Z60 CURRENT WATER AROUND THE ROOT BALL TO **EDITION FOR ROOT BALL SIZE.** SETTLE THE SOIL. **ROOT BALL MODIFIED AS** EXISTING SITE SOIL ADDED TO REQUIRED. CREATE A SMOOTH TRANSITION ROUND-TOPPED FROM THE TOP OF THE RAISED ROOT SOIL BERM 4" HIGH X 8" WIDE BALL TO THE FINISHED GRADE AT A ABOVE ROOT BALL SURFACE SHALL 15% MAX. SLOPE. BE CONSTRUCTED AROUND THE ROOT BALL. BERM SHALL BEGIN 4" LAYER OF MULCH. AT LEAST 12" FROM ROOT BALL PERIPHERY. NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL. (SEE SPECIFICATIONS FOR MULCH). ORIGINAL GRADE. FINISHED GRADE BOTTOM OF ROOT BALL RESTS ON LOOSENED SOIL. DIG AND TURN THE 1/4" OF LOOSENED / 3X WIDEST DIMENSION OF ROOT BALL SOIL TO REDUCE COMPACTION TO THE UN-COMPACTED SOIL AREA AND DEPTH SHOWN. **SECTION VIEW** EXISTING SOIL TREE PLANTING

GENERAL NOTES

- A. ALL EXISTING TANKS, PIPING, AND ELECTRICAL WORK SHALL BE AVOIDED AND PROTECTED WHEN NECESSARY THROUGHOUT CONSTRUCTION.
- B. 811 KNOW WHAT'S BELOW CALL BEFORE YOU DIG
- C. TOPOGRAPHIC DATA SHOW IS BASED ON A SURVEY CONDUCTED BY DAVID RAGLAND, ENGINEERING AND LAND SURVEYING. THE ELEVATIONS SHOWN ON THIS SHEET ARE DERIVED FROM A FIELD SURVEY FROM MARCH 2024; THE BEARINGS AND DISTANCES ARE RECORD PER PARCEL MAP 28-98 AND R/S 41-97 NAVD88.
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WOOD CHIPS / MULCH - ALONG CONCRETE CURB

DETAIL NOTES:

DETAIL NOTES

1) CONCRETE CURB

GENERAL NOTES:

2) FINISHED GRADE AT MULCH

MULCH INSTALLATION.

3) 2"-4" DEPTH WOOD CHIPS/MULCH

4) GRADE SUB-GRADE SMOOTH AND FREE OF DEBRIS

1) HOLD MULCH 2" BELOW TOP OF ADJACENT CURBS

5) EXISTING SOIL - REMOVE SOIL SUFFICIENT DEPTH BELOW

ADJACENT PAVING AND WALLS TO ALLOW PROPER DEPTH OF

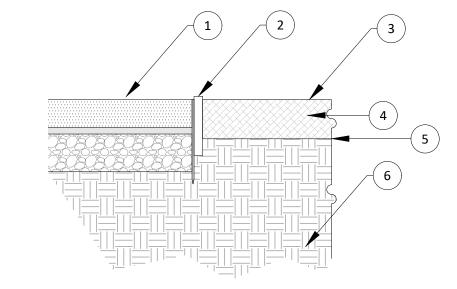
1) DG PATHWAY

2) LANDSCAPE EDGING WITH STAKES

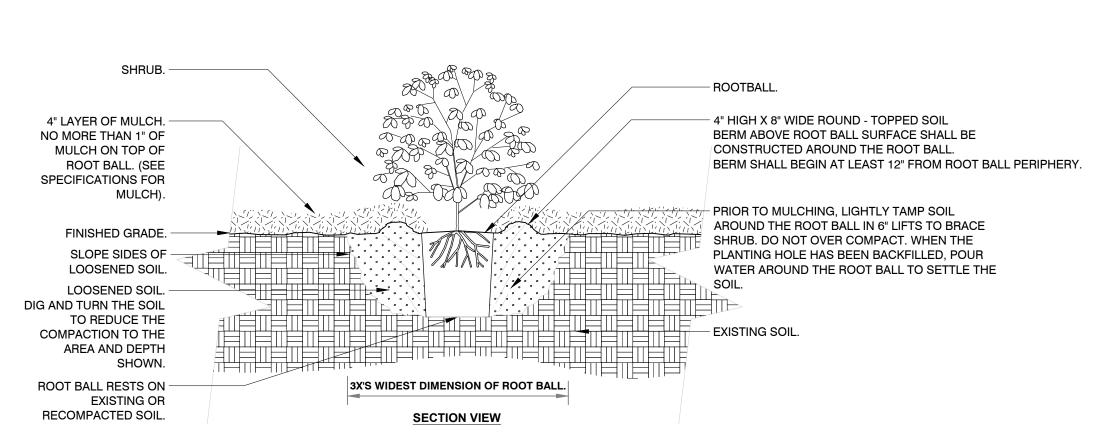
3) FINISHED GRADE AT MULCH

OF MULCH INSTALLATION.

 4) 2"-4" DEPTH WOOD CHIPS/MULCH
 5) GRADE SUB-GRADE SMOOTH AND FREE OF DEBRIS
 6) EXISTING SOIL - REMOVE SOIL SUFFICIENT DEPTH BELOW ADJACENT PAVING AND WALLS TO ALLOW PROPER DEPTH







NOTES:
1- SHRUBS SHALL BE OF QUALITY PRESCRIBED IN THE ROOT OBSERVATIONS DETAIL AND SPECIFICATIONS.



2- SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL

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CENTRAL SIERRA OFFICE 18653 MAIN STREET GROVELAND, CALIFORNIA 95321 OJAI OFFICE 206 N. SIGNAL ST., SUITE S OJAI, CALIFORNIA 93023



wain Harte Community Service District

DATE:
PROJECT NO.

REVISION DATE
1 60% SUBMITTAL 06.06.24
2100% SUBMITTAL 06.26.24
3100% SUBMITTAL v2 07.05.24
4100% SUBMITTAL v3 08.09.24
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PLANTING DETAILS

SHEET NO.:

L5.2







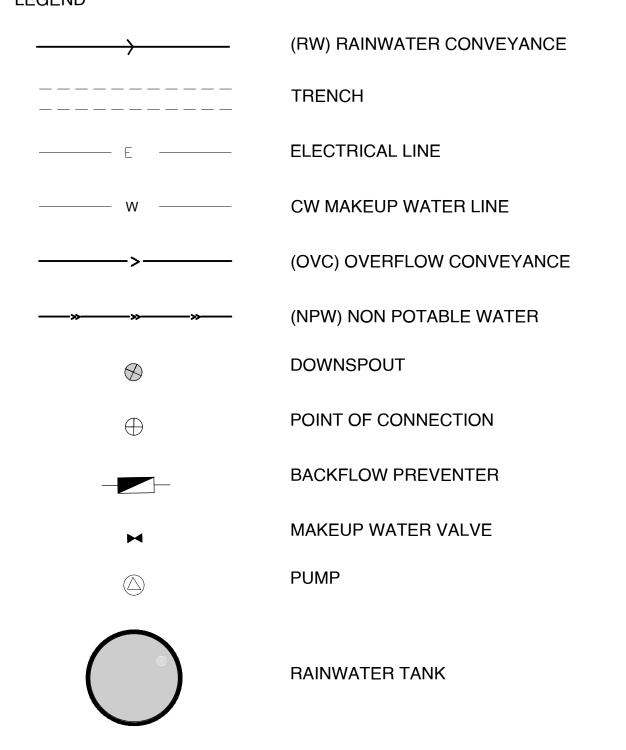
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- E. REFER TO COVER SHEET FOR LEGEND AND ABBREVIATIONS.
- F. CONTRACTOR TO VERIFY ROOF GUTTER ELEVATIONS ARE ABOVE TANK INLET AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- G. PIPING MATERIAL SHALL BE THE FOLLOWING AND PER PIPE SCHEDULES:
- G.A. BELOW GROUND: SCHEDULE 40 PVC
- G.B. ABOVE GROUND: SCHEDULE 80 PVC

SHEET NOTES

- 1. UTILIZE EXISTING 4" DIA. (MINIMUM) GUTTER AT 1/8" SLOPE. PROVIDE 4" DOWNSPOUT CONNECTIONS AND FIRST FLUSH ASSEMBLY AND LEAF EATER AT LOCATIONS INDICATED. REFERENCE EQUIPMENT SCHEDULES.
- 2. ROUTE NEW CW LINE TO BFP-1 POC FROM EXISTING WATER METER VALVE TO TANK BELOW GRADE. REFER TO DETAILS FOR TRENCHING REQUIREMENTS.
- 3. 3/4" CW MAKEUP LINE TO TANK SHALL BE INSULATED ABOVE GROUND.
- 4. ROUTE NEW ELECTRICAL LINE FROM EXISTING ELECTRICAL SUB PANEL FOR RAINWATER TANK PUMP AND IRRIGATION CONTROLLER WITH A NEW DEDICATED 20AMP BREAKER AND WEATHER PROOF OUTLET. ALL ELECTRICAL SHALL BE INSTALLED AND ROUTED BY LICENSED ELECTRICIAN. REFERENCE ELECTRICAL SPECIFICATIONS.
- 5. INSTALL RAINWATER INLET AND MAKEUP WATER VALVE AS HIGH AS POSSIBLE.
- 6. RAINWATER OVERFLOW ON TANK SHALL BE INSTALLED AT-LEAST 2" BELOW RAINWATER INLET HEIGHT AND MAKEUP WATER VALVE TO ENSURE AIR GAP.

FIRST FLUSH CALCULATIONS	- TANK 1	DOWNSPOUTS
ROOF DRAINAGE CHA	ARACTERIST	CICS
ROOF CAPTURE AREA PER DS	1160	FT^2
1-INCH STORM VOLUME	97	FT^3
	723	GAL
FIRST FLUSH	DESIGN	
PIPE SIZE	4	IN
PIPE LENGTH	3	FT
WATER VOLUME WITHIN PIPE	1.96	GAL
% VOLUME OF 1-INCH STORM	0.27%	GALLONS
TOTAL WATER WEIGHT	16.33	LB

LEGEND



RAINWATER COLLECTION SURFACE



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PROJECT NO. REVISION

1 60% SUBMITTAL

REVIEW BY: NS

4100% SUBMITTAL v3 08.09.24 5100% SUBMITTAL v4 11.15.24 DESIGN BY: MS DRAWN BY: MS

2100% SUBMITTAL 06.26.24

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SHEET NAME:

WATER REUSE PLAN

SHEET NO.:

WATER REUSE GENERAL NOTES:

- A. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE CREATED R. ALL GRAVITY CONVEYANCE PIPES SHALL ENSURE WATER-TIGHT TO REPRESENT THE CONCEPTS AS ASSOCIATED WITH ON-SITE WATER REUSE AND STORM WATER MANAGEMENT / BASIN INSTALLATIONS. FOR ALL SITE DIMENSIONS AND EXACT RELATIVE LOCATIONS, FIELD CONDITION AS-BUILTS SHOULD BE REQUESTED FROM THE PROPERTY OWNER.
- B. ABOVE GROUND RAINWATER TANKS:
- B.A. EACH OUTLET SHALL BE MARKED 'CAUTION NON-POTABLE RAINU. GREYWATER DISPERSAL CALCULATIONS AND ASSUMPTIONS AS WELL AS WATER, DO NOT DRINK' IN BLACK, CAPITAL LETTERING.
- TANKS INSTALLED ABOVE GROUND SHALL BE OF AN OPAQUE MATERIAL OR SHIELDED FROM SUNLIGHT
- RAINWATER TANKS MUST BE INSTALLED WITH A MEANS OF SUFFICIENT VENTING, DRAINING AND CLEANING, INCLUDING ACCESS FOR CLEANING/INSPECTION
- B.D. OVERFLOW SIZING SHALL MATCH OR EXCEED THE AREA OF ALL THE INFLOW PIPING. BACKFLOW PREVENTION FOR OVERFLOW SHALL BE EQUIPPED IF THE TANK DISCHARGES DIRECTLY TO THE STORM DRAIN SYSTEM
- B.E. ALL TANK INLETS, VENTS AND OVERFLOWS SHALL BE PROTECTED WITH A 1/16" OR SMALLER SCREEN
- B.F. TANK MARKING: TANKS SHALL BE PERMANENTLY MARKED WITH 'NON-POTABLE RAINWATER', PERSONNEL TANK ENTRANCES SHALL BE MARKED 'DANGER-CONFINED SPACE', PER CPC.
- B.G. TANKS AND PIPING INSTALLED IN REGIONS KNOWN TO FREEZE MUST BE PROVIDED WITH APPROVED MEANS OF FREEZE PROTECTION. PROVIDE ABOVE GROUND PIPES WITH 1" INSULATION.
- RAINWATER CATCHMENT INFLOW PIPING OR CONVEYANCE PIPING MUST HAVE A 'DEBRIS EXCLUDER' INSTALLED TO PREVENT LEAVES, NEEDLES AND SEDIMENT FROM ENTERING THE TANK
- C. RAINWATER PUMPS SERVING RAINWATER CATCHMENT SYSTEMS SHALL BE LISTED (APPROVED BY A LISTING AGENCY FOR EXPECTED USE)
- D. IF THE RAINWATER USE WITHIN A BUILDING EXCEEDS 80 PSI, A PRESSURE REDUCING VALVE SHALL BE INSTALLED TO REDUCE THE PRESSURE TO 80 PSI OR LESS
- D. RAINWATER PIPING SHALL BE MARKED 'CAUTION NON-POTABLE RAIN WATER, DO NOT DRINK' WITH THE INTERNATIONAL DO NOT DRINK SYMBOL OF A CIRCLED WATER GLASS WITH A DIAGONAL SLASH THROUGH IT, PER CPC REQUIREMENTS. REFER TO SAMPLE.
- E. ALL GUTTERS, ROOF DRAINS AND ASSOCIATED PIPING MUST COMPLY WITH RELEVANT CALIFORNIA BUILDING CODES
- F. RAINWATER TREATMENT DEVICES MUST PERFORM TO THE MINIMUM STANDARD DETERMINED BY THE AUTHORITY HAVING JURISDICTION
- G. ALL EQUIPMENT USED FOR RAINWATER QUALITY TREATMENT SHALL BE LISTED OR LABELED BY AN ACCREDITED LISTING AGENCY AND HAVE APPROVAL FOR THE INTENDED PURPOSE
- H. RAINWATER SIGNS IN BUILDINGS MUST FOLLOW THE GUIDELINES OF SECTIONS CPC 1602.10.1 AND 1602.10.2 AND OTHER REQUIREMENTS IN THE CALIFORNIA BUILDING CODE
- I. INPECTION: RAINWATER CATCHMENT SYSTEMS SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH CPC SECTIONS 1602.11.1 AND 1602.11.2.
- J. INSPECTION INCLUSIONS: RAINWATER CATCHMENT SYSTEMS SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH CODE PROVISIONS FOR TESTING OF POTABLE WATER SYSTEMS AND STORM DRAINAGE SYSTEMS. STORAGE TANKS SHALL BE FILLED WITH WATER TO THE OVERFLOW LINE FOR A PERIOD OF 24 HOURS AND DURING INSPECTION. SEAMS AND JOINTS SHALL BE EXPOSED DURING INSPECTION AND CHECKED FOR WATERTIGHT-NESS.
- K. TRENCHES WILL BE COVERED DURING END OF WORK DAY AND CROSSING BOARDS LAID EVERY 4 FEET DURING WORK DAY. TRENCHES TO BE FILLED IN AND SET PROPERLY.
- L. ALL ABOVE GROUND PIPES SHALL BE PROTECTED FROM HUMAN/ANIMAL TRAFFIC BEFORE, DURING AND AFTER INSTALLATION.
- M. ALL ABOVE GROUND PIPES SHALL RECEIVE INSULATION PER DEFINED PIPE SCHEDULE CRITERIA.
- N. "WET" PLUMBING PIPES/SYSTEMS SHALL BE DRAINED AFTER THE RAINY SEASON.
- O. ALL NON -POTABLE WATER SUPPLY PIPES FROM RAINWATER TANKS AND PUMPS SHALL BE LABELED PER CPC. CH 16.
- P. ALL GRAVITY PIPES SHALL BE INSTALLED AT 1/4" / 1' SLOPE UNLESS OTHERWISE INDICATED.
- Q. ALL BURIED GRAVITY PIPES SHALL HAVE A MINIMUM OF 3" SAND OR PEA GRAVEL AS THEIR BASE.

- FITTINGS BY MEANS OF GLUE OR MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL VERIFY ALL EXISTING UNDERGROUND UTILITY LOCATIONS PRIOR TO EXCAVATION.
- T. ALL VALVES AND DEVICES SHALL BE ANSI/NSF APPROVED, ACCOMPANIED WITH REFERENCE AND MAINTENANCE INSTRUCTIONS AS LISTED IN THE PROVIDED MAINTENANCE CONTRACT.
- BASIN DETAILS FOR BASIN SIZING SHALL BE PROVIDED PRIOR TO INSTALLATION.
- V. ALL NEW AND EXISTING PLANTS AND TREES HAVE BEEN SHOWN TO REPRESENT ROUGH/RELATIVE LOCATIONS AND ARE DIAGRAMMATIC. FOR ACCURATE REPRESENTATION OF PLANTS, REFER TO PLANTING DRAWINGS (WHERE PROVIDED)
- W. PLANTS AND TREES ARE EXISTING UNLESS INDICATED OTHERWISE

WATER REUSE SCHEDULES

APPLICABLE CODES AND REGULATIONS

1. CALIFORNIA PLUMBING CODE

2. CALIFORNIA BUILDING CODE

PIPE SCHEDULE							
SERVICE	PIPE TAG	SIZE	MATERIAL	INSULATION			
ION-POTABLE WATER SUPPLY	NPW	2" OR SCHEDULE 40 / 8 SMALLER ASTM D1785	SCHEDULE 40 / 80 PVC:	PROVIDE INSULATION ON ABOVE GROUND PIPES. 1-1/2" FIBERGLASS, ALL-PURPOSE JACKET. COVER WITH METAL PIPE JACKET WHERE EXPOSED TO WEATHER. FIBERGLASS SHALL BE SPLIT SECTIONAL OR SNAP ON TYPE WITH 0.23 PER INCH MAX. THERMAL CONDUCTIVITY (K-FACTOR) AT 75F MEAN			
DOMESTIC WATER	cw			ASTM D1785	ASTM D1785	TEMP. PROVIDE VAPOR BARRIER JACKET WITH PRESSURE SENSITIVE CLOSURE SYSTEM. JOHNS MANSVILLE MICROLOK HP OR APPROVED EQUAL METAL PIPE JACKET SHALL BE 0.016-INCH THICK ALUMINUM WITH FORMED FITTING COVERS, ALUMINUM SNAP STRAPS AND SEALANT	
RAINWATER/	RW	4" OR	SCHEDULE 40 PVC: ASTM	FOR EREST PROTECTION OVERTIMENT DE PRAINER			
RW OVERFLOW CONVEYANCE	OVC	SMALLER D1785.		FOR FREEZE PROTECTION, SYSTEM SHALL BE DRAINED.			

	SIZING (TABLE 1101.8 OF HORIZONTAL RAINWAT (COMBINED SYSTEM)	ER PIPING	
	DE	SIGN RAINFALL RATE = 3 INCHE	S/HR	
SIZE OF PIPE				DESIGN SLOPE = 1/4-INCH/FOOT
INCHES	FLOW	MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREAS	FLOW	MAXIMUM ALLOWABLI HORIZONTAL PROJECTED ROOF AREAS
	GPM	SQ. FT.	GPM	SQ. FT
3	34	1,096	48	1,546
4	78	2,506	110	3,533
6	222	7,133	314	10,066
8	478	15,330	677	21,733
10	860	27,600	1,214	38,950
12	1,384	44,400	1,953	62,600
15	2,473	79,333	3,491	112,000

PIPE SIZING

PRESSURIZED WATER PIPING:

BASIS OF DESIGN: 2023 CALIFORNIA PLUMBING CODE, APPENDIX A 'RECOMMENDED RULES FOR SIZING THE WATER SUPPLY SYSTEM'. PIPING SIZED ON 3 PSI/100 FT. DROP, VELOCITIES NOT TO EXCEED 8 FT./SEC.

ROOF DRAIN/STORM DRAIN PIPING SYSTEM:

BASIS OF DESIGN: 2023 CALIFORNIA PLUMBING CODE, CHAPTER 11, 'STORM DRAINAGE'. STORM DRAIN PIPING SIZED AT 1/8"/FT. SLOPE UNLESS OTHERWISE NOTED AND A RAINFALL RATE OF 1.5"/HR TRADITIONAL SYSTEM 3"/HR FOR A COMBINED PRIMARY AND OVERFLOW SYSTEM.

GREYWATER/WASTE/VENT PIPING SYSTEM:

BASIS OF DESIGN: 2023 CALIFORNIA PLUMBING CODE, CHAPTER 7, 'SANITARY DRAINAGE'. ALL WASTE PIPING SIZED AT 1/4"/FT. SLOPE UNLESS OTHERWISE NOTED.

RAINWATER TANK SCHEDULE							
TA C NUMBER	LOCATION	TOTAL VOL.	EACH TANK		MAKE MODEL		
TAG NUMBER	LOCATION	(GROSS GAL.)	QTY	DIMENSIONS	MAKE, MODEL		
TANK-1	CSD SHED	5,000	(1) @ 5,000	8' H. x 10'-9" DIA.	BUSHMAN POLY 5050 OR APPROVED EQUAL		

		PERFORMANCE					
TAG NUMBER	DESCRIPTION	LOCATION	MAX PUMP HEAD	POWER	VOLT/ PHASE	MAKE, MODEL	QTY
			(FT)	(TOTAL HP)	PHASE		
PUMP-1	SUBMERSIBLE RW PUMP	CSD SHED	220	1/2	120/1	RAIN BROTHERS, TRADITIONAL SPRINGER SERIES CISTERN PUMP WITH FLOATING INTAKE VALVE	1

EQUIPMENT SCHEDULE						
TAG NUMBER	LOCATION	DESCRIPTION	QTY			
GT-1	GUTTER	RECTANGULAR STEEL GUTTER. REFER TO PLANS FOR LENGTH, 4-INCH DIA.	SEE PLANS			
CO-1	GRAVITY PIPING SYSTEMS	2-WAY CLEAN OUT COMBO TEE WITH THREAD ADAPTER AND PLUG SIMILAR TO: 2", ABS, CANPLAS	1			
DS-1	ALL DOWNSPOUTS CONNECTED TO TANK	DOWNSPOUT FILTER: COMMERCIAL ZINCALUME STEEL RAINHARVEST 4" LEAF EATER ADVANCED DOWNSPOUT FILTER OR APPROVED EQUAL.	2			
D3-1	SYSTEMS	TANK-1: RAINHARVESTING FIRST FLUSH ASSEMBLY DIVERTER WITH ACUATOR RELIEF VALVE) OR APPROVED EQUAL	1			
MV-1	(1) PER TANK SYSTEM	MAKE UP WATER VALVE: 3/4" RAINAID OR APPROVED EQUAL	1			
BF-1	CSD SHED	BACKFLOW PREVENTER: 1" ZURN 375-XL REDUCED PRESSURE BACKFLOW ASSEMBLY OR APPROVED EQUAL	1			



WWW.WATERSHEDPROGRESSIVE.COM 209.732.0018 CENTRAL SIERRA OFFICE

GROVELAND, CALIFORNIA 9532

206 N. SIGNAL ST., SUITE S OJAI, CALIFORNIA 93023



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PROJECT NO. REVISION 1 60% SUBMITTAL 2100% SUBMITTAL 06.26.24 3100% SUBMITTAL v2 07.05.24 4100% SUBMITTAL v3 08.09.24 5100% SUBMITTAL v4 11.15.24 DESIGN BY: MS DRAWN BY: MS

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SHEET NAME:

REVIEW BY:NS

WATER REUSE **EQUIPMENT** SCHEDULES

SHEET NO.:

GROVELAND, CALIFORNIA 95321

Hal

3100% SUBMITTAL v2 07.05.24 4100% SUBMITTAL v3 08.09.24 5100% SUBMITTAL v4 11.15.24 DESIGN BY: MS DRAWN BY: MS REVIEW BY: NS

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SHEET NAME:

WATER REUSE **DETAILS**

SHEET NO.:

DETAIL NOTES:

1) PVC LEADER PIPE PVC PIPE

3) PVC TEE 4) BUSHING

5) PVC COUPLER 6) PVC W/ STOPPER BALL DIAMETER >2", <2.75" 7) PVC FTA

8) BUSHING MPT X FPT

9) RAINAID ADVANCED RELIEF VALVE 10) LEAF GUARD (AT DOWNSPOUT LOCATION)

GENERAL NOTES:

A. MATERIALS FASTENED WITH TWO WALL STRAPS. B. ASSEMBLY IS OF TYP. FIRST FLUSH UNIT.

C. ALTERNATE: USE APPROVED MONOLITHIC ASSEMBLY.

D. ALTERNATE: USE APPROVED MOZZIE STOPPA OVERFLOW SCREEN.

FIRST FLUSH ASSEMBLY DETAIL (TYP.)

TO TANK





GENERAL NOTES:

A. RAINWATER TANKS SHALL HAVE APPROPRIATE SIGNAGE NOTING "NON-POTABLE WATER" AND "DANGER CONFINED SPACE" ALL IN ACCORDANCE WITH CALIFORNIA PLUMBING CODE

B. SIGNAGE SHALL BE UV, CHEMICAL, ABRASION AND FADE RESISTANT.

NON-POTABLE SIGNAGE: SYSTEM LOCATION AND TANKS (TYP.)

DETAIL NOTES:

1) NON-PRESSURIZED LINE (RW, OVERFLOW, SS)

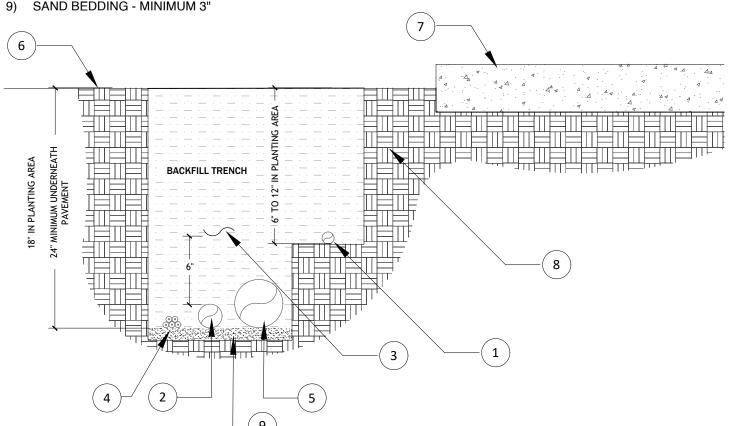
2) PRESSURIZED LINE (W, CW, NPW, PUMPED RW) 3) DETECTABLE LOCATOR TAPE

4) DIRECT BURIAL LOW VOLTAGE CONTROL WIRES

5) PIPE SLEEVE - PVC CLASS 200 SDR 21

6) FINISHED GRADE 7) PAVEMENT

8) UNDISTURBED SUB-GRADE 9) SAND BEDDING - MINIMUM 3"



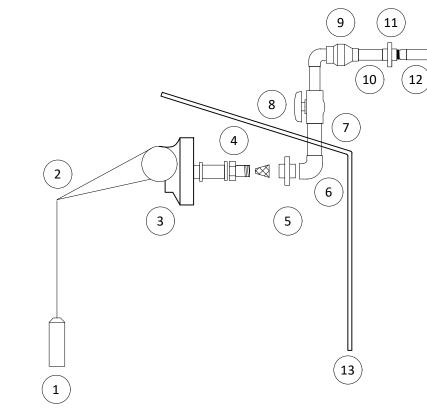
A. SEE PIPE SCHEDULE FOR SIZES AND TYPES.

B. DIRECT BURIAL CONTROL WIRES SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT IF REQUIRED. C. 2-WIRE IRRIGATION WIRE SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT.

D. DETECTABLE LOCATOR TAPE SHALL BE LOCATED SIX INCHES (6") ABOVE THE ENTIRE MAINLINE RUN. E. FOR UTILITY TRENCHES, COMPACT THE INITIAL BACKFILL USING NATIVE SOIL, TO A RELATIVE COMPACTION OF 95%

FOR UNPAVED AREAS, COMPACT NATIVE SOIL MATERIAL TO A RELATIVE COMPACTION OF 85% G. BACKFILL TRENCH. ADJACENT TO WALKWAYS IS TO BE WITHIN 4" BELOW FINISH GRADE OF WALKING SURFACE.

TRENCHING (TYP)



1) ACTIVATOR FLOAT - ADJUST LINE LENGTH

GENERAL NOTES:

NATIVE SOIL.

E. MAXIMUM 3:1 SLOPE

A. BIO-SWALE ALIGNMENT MAY BE STRAIGHT OR

B. TREES AND SHRUBS SHOULD BE LOCATED AN

DEPTHS TO BE VERIFIED ON-SITE.

MEANDERING, DEPENDING ON AVAILABLE SPACE.

C. USE OF GRAVEL / RIVER ROCK /MULCH AND SWALE

D. SPOT AMEND PLANTS WITH A MIX OF COMPOST AND

APPROPRIATE DISTANCE FROM THE SWALE BASED ON

SPECIES' TOLERANCE OF SATURATED SOIL CONDITIONS.

8" MIN.

12"-18" TYP

BIO-SWALE + RAINWATER OVERFLOW DISCHARGE (TYP.)

FOR DESIRED FILL HEIGHT 2) SWING ARM ACTIVATOR

3) MAKE-UP WATER FILL OPENING 4) SCREEN FILTER 5) 3/4" PVC SCH. 40 UNION FPT

8) $\frac{3}{4}$ PVC SCH. 40 BALL BALVE FPS

6) $\frac{3}{4}$ " PVC SCH. 40 90 ELBOW MPT X FPS 7) ³" PVC SCH. 40 PIPE

INSTALL W/ BALL VALVE HOUSING TOUCHING CISTERN HANDLE TO FACE DOWNHILL SLOPE OF CISTERN ROOF.

9) $\frac{3}{4}$ PVC SCH. 40 SPRING CHECK VALVE FPT

10) $\frac{3}{4}$ " X 2" LONG PVC SCH. 80 NIPPLE MPT

11) $\frac{3}{4}$ PVC SCH. 40 UNION FPT

12) $\frac{3}{4}$ PVC SCH. 40 MALE THREAD ADAPTER 13) CISTERN WALL

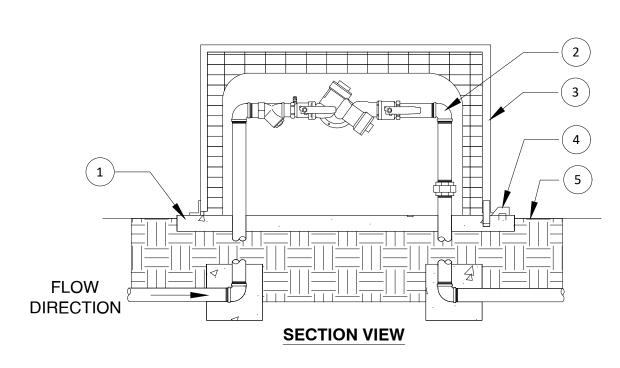
RAINWATER / MUNICIPAL MAKEUP WATER ASSEMBLY

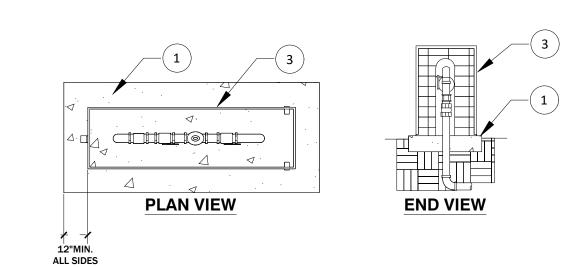
NON-POTABLE WATER

A. RAINWATER CONVEYANCE LINES SHALL HAVE APPROPRIATE SIGNAGE

NOTING "NON-POTABLE WATER" ALL IN ACCORDANCE WITH CALIFORNIA PLUMBING CODE CHAPTER 16. B. ADHESIVE PIPE MARKERS SHALL BE UV, CHEMICAL, ABRASION AND FADE RESISTANT.

NON-POTABLE SIGNAGE - PIPE MARKER (TYP.)





DETAIL NOTES:

4) LOCK BOX

5) FINISHED GRADE

1) 4" THICK CONCRETE FOOTING 1" ABOVE FINISHED GRADE 2) BACK FLOW PREVENTION DEVICE

3) BACK FLOW CAGE

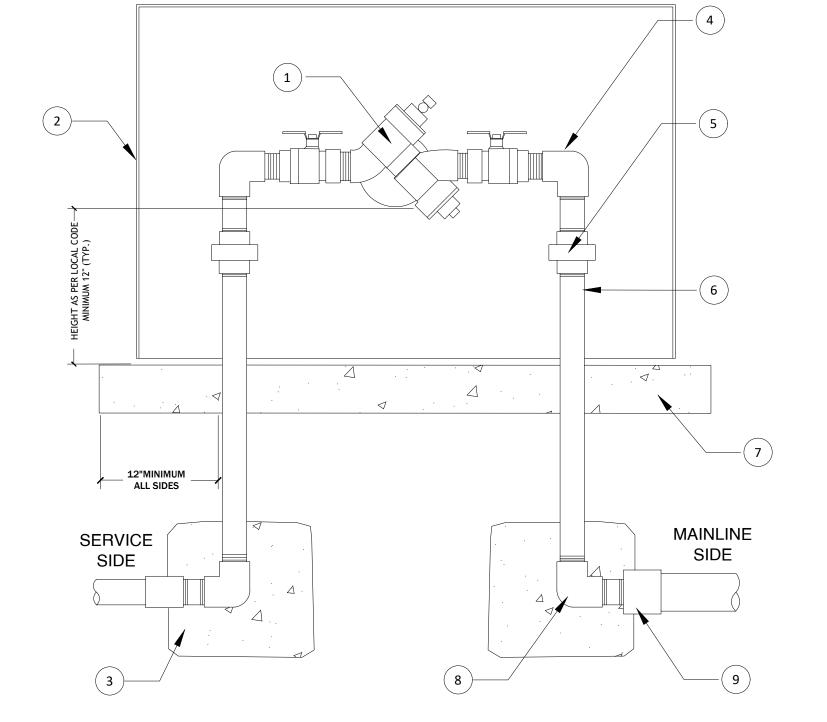
GENERAL NOTES:

A. INSTALL BACK FLOW ENCLOSURE PER MANUFACTURERS SPECIFICATIONS

AND RECOMMENDATIONS. B. SEE BACK FLOW PREVENTION DEVICE DETAIL FOR REFERENCE.

C. LOCK BOX SHALL BE LOCATED ABOVE CONCRETE FOOTING. D. LOCK TO BE PROVIDED BY CONTRACTOR OR AS APPROVED BY OWNER.

BACKFLOW PREVENTER ENCLOSURE



GENERAL NOTES:

TECHNICIAN.

A. PROVIDE REDUCED PRESSURE BACK FLOW PREVENTER OF ANY EXISTING

IN ACCORDANCE WITH CALIFORNIA PLUMBING CODE 2022 CHAPTER 15 AND 16

UNIONS TO BE PLACED AS NEEDED (EASE OF MAINTENANCE + REPLACEMENT)

REDUCED PRESSURE BACK FLOW PREVETER TO BE TESTED BY QUALIFIED

WELL WATER CONNECTION TO NEW OUTLET / FIXTURE.

DETAIL NOTES:

6) FILL LINE

1) (E) GRADE - ADJACENT SURFACES MAY VARY

8) RAINWATER OVERFLOW CONVEYANCE PIPE

MAXIMUM 6'-0"

9) RAINWATER OVERFLOW INTO BIO-SWALE

4) GRAVEL / RIVER ROCK , 3-4" DEPTH (MAXIMUM OF 6")

NATIVE SWALE BASIN PLANTS - REFERENCE PLANTING PLAN

(3) (5) (9)

2) UN-COMPACTED SUB GRADE

5) MULCH, 3-4" DEPTH (MAXIMUM OF 6")

7) RAINWATER CISTERN SIDE WALL

DETAIL NOTES:

1) REDUCED PRESSURE BACK FLOW DEVICE AS SPECIFIED

2) BACK FLOW ENCLOSURE AS SPECIFIED CONCRETE THRUST BLOCKS

GALVANIZED NIPPLES AND ELL AS REQUIRED GALVANIZED UNIONS AT EACH SIDE

GALVANIZED RISERS

7) 4" THICK MINIMUM CONCRETE PAD 8) GALVANIZED ELL AND NIPPLE, TYPICAL

9) PVC COUPLER OR REDUCER AS REQUIRED, TYPICAL

REDUCED PRESSURE BACKFLOW DEVICE

DATE: PROJECT NO.

DESIGN BY: MS DRAWN BY: MS

REVIEW BY: NS

SHEET NAME:

REVISION DATE
1 60% SUBMITTAL 06.06.24
2 100% SUBMITTAL 06.26.24
3 100% SUBMITTAL v2 07.05.24
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DETAILS

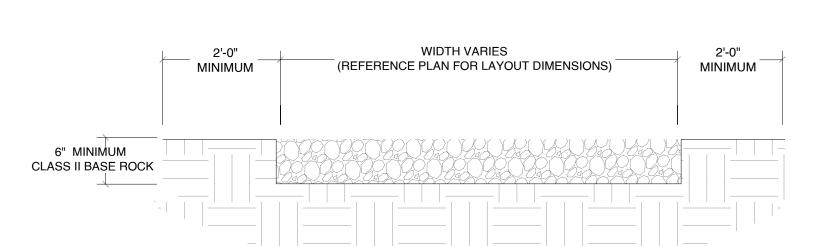




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- A. ENSURE SUB-GRADE IS WELL COMPACTED AND LEVEL.
- B. ENSURE CLASS II BASE ROCK COMPACTED 95% C. REFERENCE GRADING PLAN FOR PAD DIMENSIONS & LAYOUT.
- D. RAINWATER CISTERN PAD LAYOUT AND DIMENSIONS TO BE STAKED
- OUT AND VERIFIED PRIOR TO GRAVEL BASE FILL & COMPACTION. E. REFERENCE TANK MANUFACTURER PAD SPECIFICATIONS AS NEEDED.



RAINWATER POLY TANK AT CSD SHED

9

DETAIL NOTES:

10) CALMING INLET

12) CHECK VALVE

13) SUBMERSIBLE PUMP

1) INCOMING RAINWATER FROM F.F. ASSEMBLY

4) CISTERN OVERFLOW W/ MOZZIE STOPPA ASSEMBLY TO BIO-SWALE.

5) 120-VAC PUMP CABLE TO OUTDOOR ELECTRICAL OUTLET

8) RAINWATER CISTERN GRAVEL PAD - CLASS II BASE ROCK

2) INCOMING MAKEUP MUNICIPAL WATER

3) 24" MANWAY ACCESS LID / VENTING

6) LINE TO IRRIGATION VALVE(S)

7) RAINWATER CISTERN MANIFOLD

9) 5,000-GAL. RAINWATER CISTERN

11) MUNICIPAL MAKEUP WATER ASSEMBLY

14) FLOATING INTAKE VALVE W/ SEDIMENT SCREEN

RAINWATER POLY TANK GRAVEL PAD

SHEET NO.: