

TWAIN HARTE MEADOWS PARK



WATERSHED PROGRESSIVE
WWW.WATERSHEDPROGRESSIVE.COM
209.732.0519

CENTRAL SIERRA OFFICE
18653 MAIN STREET
GROVELAND, CALIFORNIA 95321



CLIENT

TWAIN HARTE COMMUNITY SERVICES DISTRICT
22945 MEADOW DRIVE
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
SYDNEY SANTOS, P.E.
SYDNEY@H2OPROGRESSIVE.COM

CIVIL ENGINEER
PAIGE BRUE, P.E.
PAIGE@H2OPROGRESSIVE.COM

PROJECT LEAD LANDSCAPE DESIGNER
AJA BULLA-RICHARDS
AJA@H2OPROGRESSIVE.COM

THE FOLLOWING IS A GENERAL LIST OF BIDDABLE ITEMS FOR THIS PROJECT (SEE SPECIFICATIONS FOR A MORE DETAILED DESCRIPTION OF EACH BIDDABLE ITEM):

- GENERAL SITE WORK (TREE PROTECTION, TEMPORARY FENCING IF DEEMED NECESSARY FOR SECURITY, CLEANUP, AND STORM DRAIN PROTECTION).
- DEMOLITION, REMOVAL, AND LEGAL DISPOSAL OF ASPHALT, A PORTION OF THE POOL, ABANDONED PIPES, AND OTHER UNUSABLE DEBRIS ON SITE.
- EARTHWORK (INCLUDES EXCAVATION FOR TANK-3) AND REMOVAL OF ALL ROCKS GREATER THAN 6 INCHES FROM BACKFILL.
- BOULDER, COBBLE, AND ROCK MULCH PLACEMENT (FIELD DIRECTED BY OWNER'S REPRESENTATIVE). BOULDER SELECTION WILL ALSO BE DIRECTED BY OWNER'S REPRESENTATIVE.
- PERMEABLE PATHWAY (INCLUDES PEDESTRIAN BOARDWALKS).
- PERMEABLE PARKING LOT.
- CURB AND CURB RAMP INSTALLATION.
- STREET LIGHT INSTALLATION.
- PREFABRICATED RESTROOM PREPARATION AND COORDINATION.
- PAVILION (INCLUDING GT-1)
- ELECTRICAL WORK.
- UNDERGROUND UTILITIES (SANITARY SEWER AND WATER).
- OTHER UNDERGROUND UTILITIES (IRRIGATION, RAINWATER CONVEYANCE, AND STORM DRAINS).
- TOWN CHRISTMAS TREE INSTALLATION.
- PADS AND SETTING OF SIX POLY TANKS (TANK-1).
- PADS AND SETTING OF ONE CORRUGATED METAL TANK (TANK-2).

NOTE: REFER TO SPECIFICATIONS FOR A MORE DETAILED DESCRIPTION OF BIDDABLE ITEMS. FOR CLARIFICATION PURPOSES, BIDDABLE ITEMS WILL BE INDICATED WITH AN ASTERISK (*) ON THIS PLAN SET. HOWEVER, THESE MARKINGS ARE ONLY A GUIDE AND DO NOT SUPERSEDE THE MEASUREMENT AND PAYMENT SPECIFICATIONS.

THE FOLLOWING IS A GENERAL LIST OF NON-BIDDABLE/EXCLUDED ITEMS (WORK TO BE DONE BY OTHERS) SHOWN ON THESE PLANS INCLUDE:

- LANDSCAPING, PLANTING, AND MULCHING
- PREFORMED SCOUR HOLE INSTALLATION
- IRRIGATION EMITTER PLACEMENT
- RESTROOM GREYWATER PLUMBING
- GREYWATER PLANTINGS
- INSTALLATION OF ABOVEGROUND PLUMBING, VALVES, AND ACCESSORIES FOR RAIN TANKS
- RAINWATER PUMP INSTALLATION
- LOW-VOLTAGE LIGHTING (E.G., PEDESTRIAN WALKWAYS AND CHRISTMAS TREE UPLIGHT)
- PICNIC TABLE ASSEMBLY
- BARBEQUE ASSEMBLY AND INSTALLATION
- SINK AND LARGE BARBEQUE IN THE PAVILION
- EDUCATIONAL/DISCOVERY LAB SIGNAGE
- FLUME AND WATER PLAY DISCOVERY LAB
- TANK-3 INSTALLATION AND ASSOCIATED ACCESSORIES
- PARK ENTRANCE SIGN AND INSTALLATION
- PREFABRICATED RESTROOM PURCHASE, WHICH INCLUDES PLACEMENT WITH A CRANE.

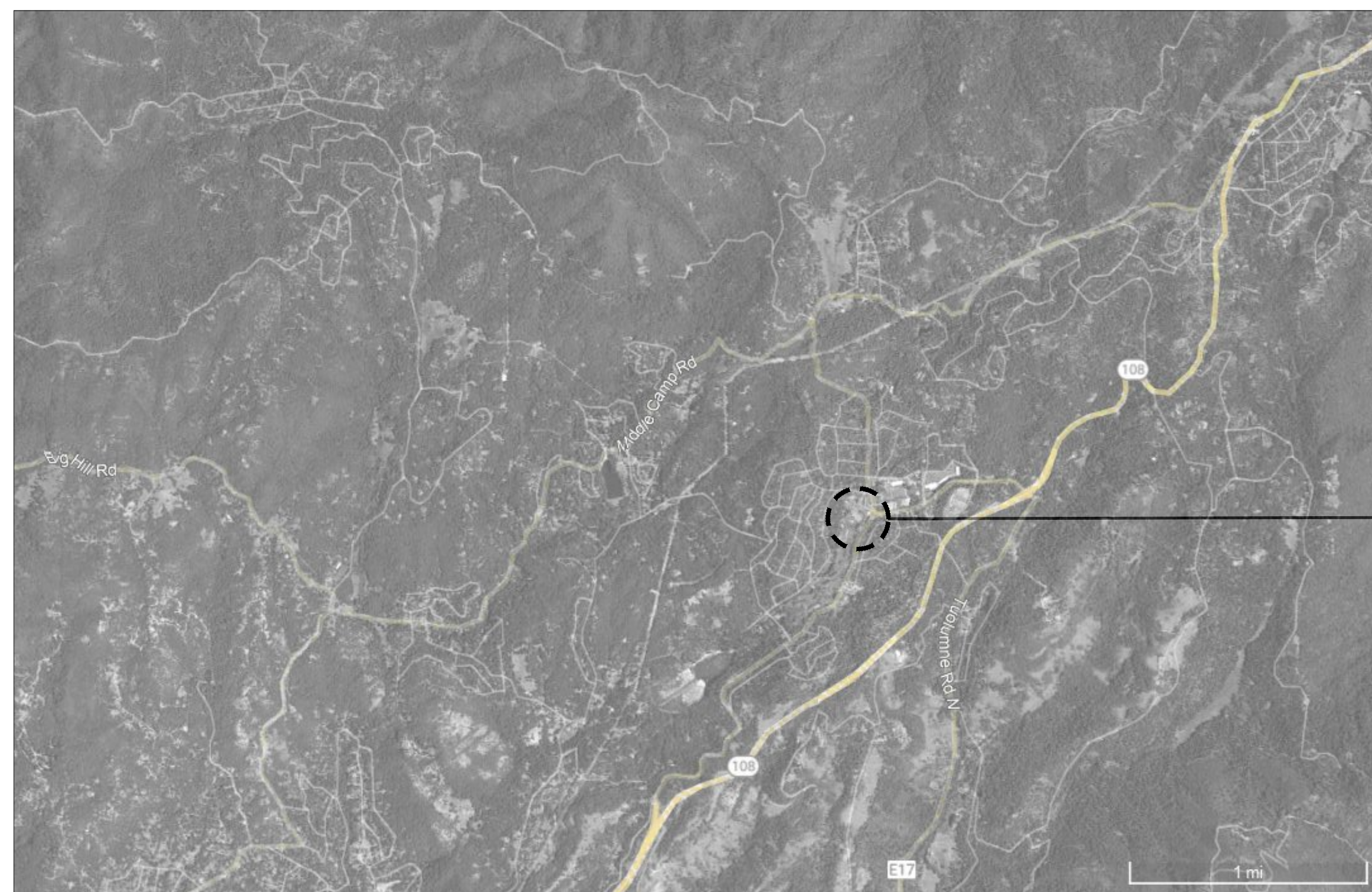
ABBREVIATIONS

(E)	EXISTING	U/S	UPSTREAM
(N)	NEW	D/S	DOWNSTREAM
LOD	LIMIT OF DISTURBANCE	INV	INVERT
POC	POINT OF CONNECTION	STD SPEC	STANDARD SPECIFICATION
VAC	AC VOLTAGE	CMP	CORRUGATED METAL PIPE
CW	COLD WATER	USFS	UNITED STATES FOREST SERVICE
RW	RAINWATER		
GW	GREYWATER		
SW	STORMWATER		
LP	LOW POINT		
HP	HIGH POINT		
RSP	ROCK SLOPE PROTECTION		
LFG	LOW FINISH GRADE		
HFG	HIGH FINISH GRADE		
TC	TOP OF CURB		
SF	SQUARE FOOT		
LF	LINEAL FOOT		
CY	CUBIC YARD		

SHEET INDEX

L0.0	COVER SHEET
L0.1	STORMWATER BENEFITS
L1.1	EXISTING CONDITIONS SURVEY AND DEMOLITION
L1.2	DEMOLITION AND EROSION CONTROL DETAILS
L2.1	GRADING AND DRAINAGE PLAN
L2.2	GRADING AND DRAINAGE SECTIONS
L2.3	GRADING AND DRAINAGE DETAILS
L2.4	GRADING AND DRAINAGE DETAILS
L3.1	MATERIALS PLAN
L3.2	MATERIALS LAYOUT PLAN
L3.3	MATERIALS DETAILS
L3.4	MATERIALS DETAILS
L4.1	IRRIGATION PLAN
L4.2	IRRIGATION SCHEDULE NOTES
L4.3	IRRIGATION DETAILS
L5.1	PLANTING PLAN
L5.2	PLANTING SCHEDULE
L5.3	PLANTING DETAILS
L6.1	WATER REUSE AND UTILITIES PLAN
L6.1A	WATER REUSE AND UTILITIES PLAN ENLARGED
L6.2	WATER REUSE AND UTILITIES SCHEDULE
L6.3	WATER REUSE AND UTILITIES DETAILS
L6.4	WATER REUSE AND UTILITIES DETAILS
L6.5	WATER REUSE AND UTILITIES DETAILS
L6.6	WATER REUSE AND UTILITIES DETAILS
L7.1	LIGHTING AND ELECTRICAL PLAN
L7.2	LIGHTING AND ELECTRICAL NOTES
L7.3	LIGHTING AND ELECTRICAL DETAILS
L8.1	DISCOVERY LABS KEY PLAN
L9.1	AS-BUILT BOCCO COURT SITE PLAN STRUCTURAL PLANS (PAVILION) RESTROOM PLAN

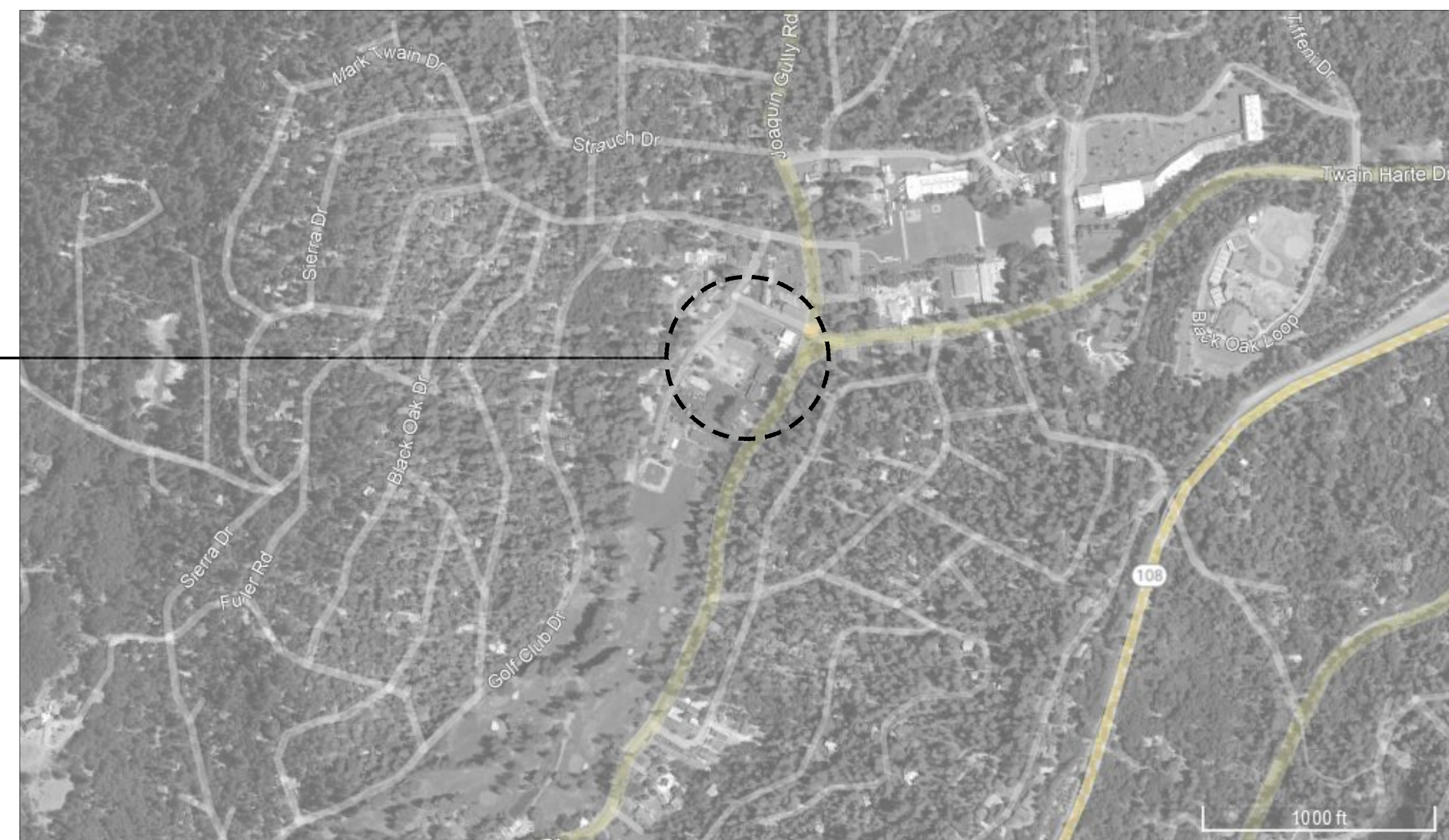
VICINITY MAP



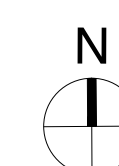
PROJECT VICINITY



PROJECT LOCATION MAP



PROJECT LOCATION



Twain Harte Meadows
22945 Meadow Drive, Twain Harte, CA 95383

DATE:
PROJECT NO.

REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

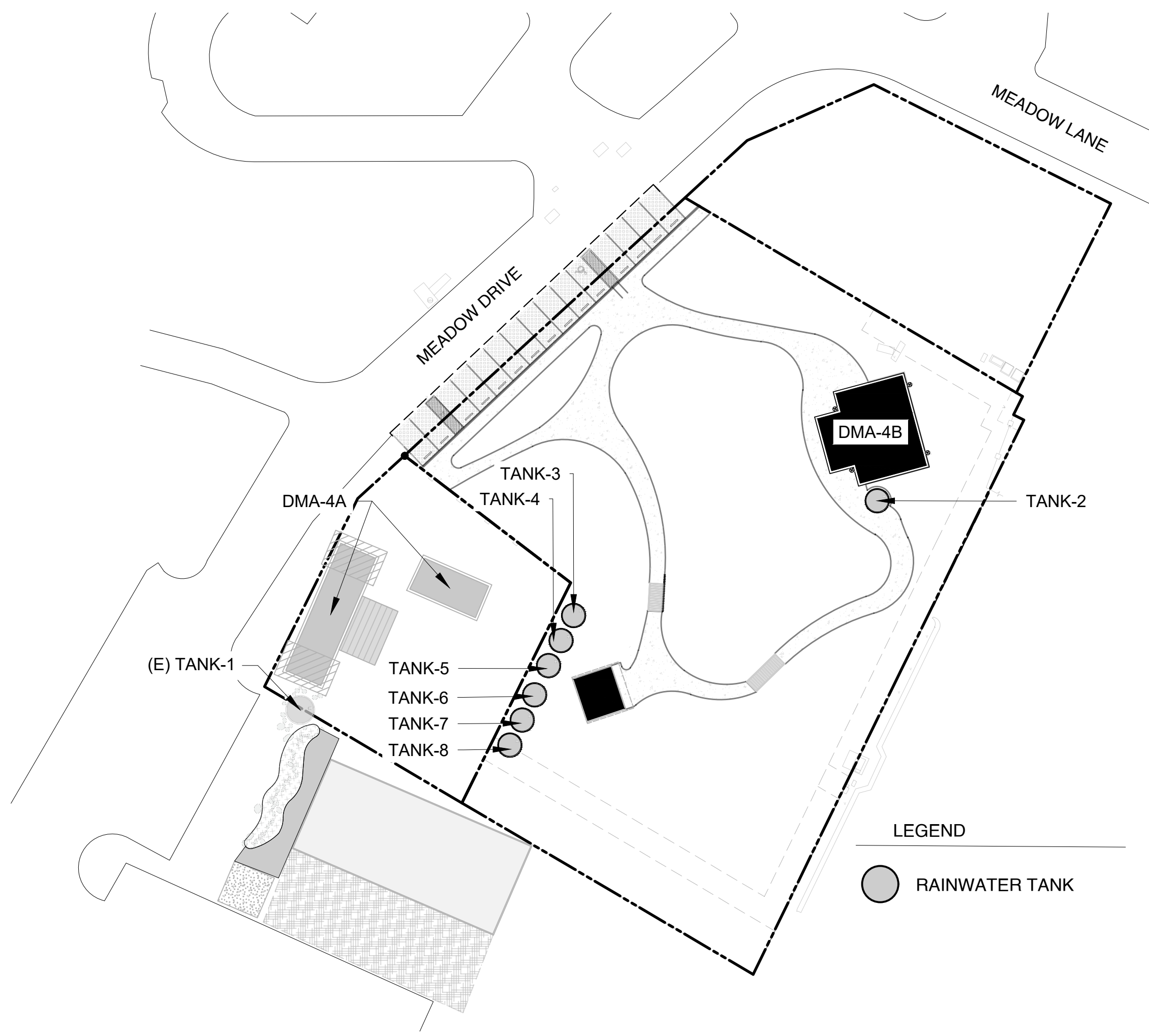
DESIGN BY: MS,JS
DRAWN BY: MS,JS
REVIEW BY: JPB, RH, NS

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

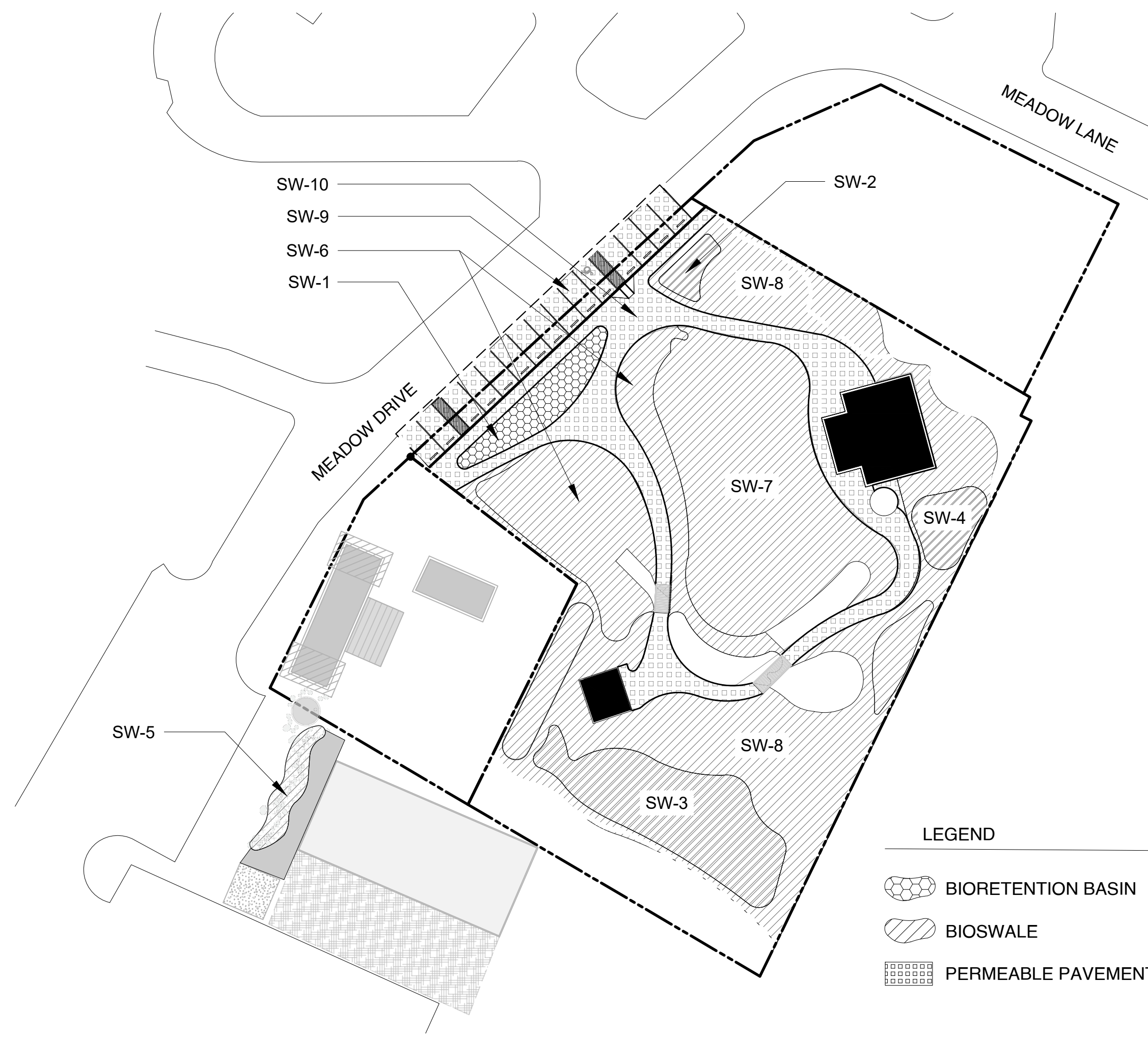
COVERSHEET

L0.0

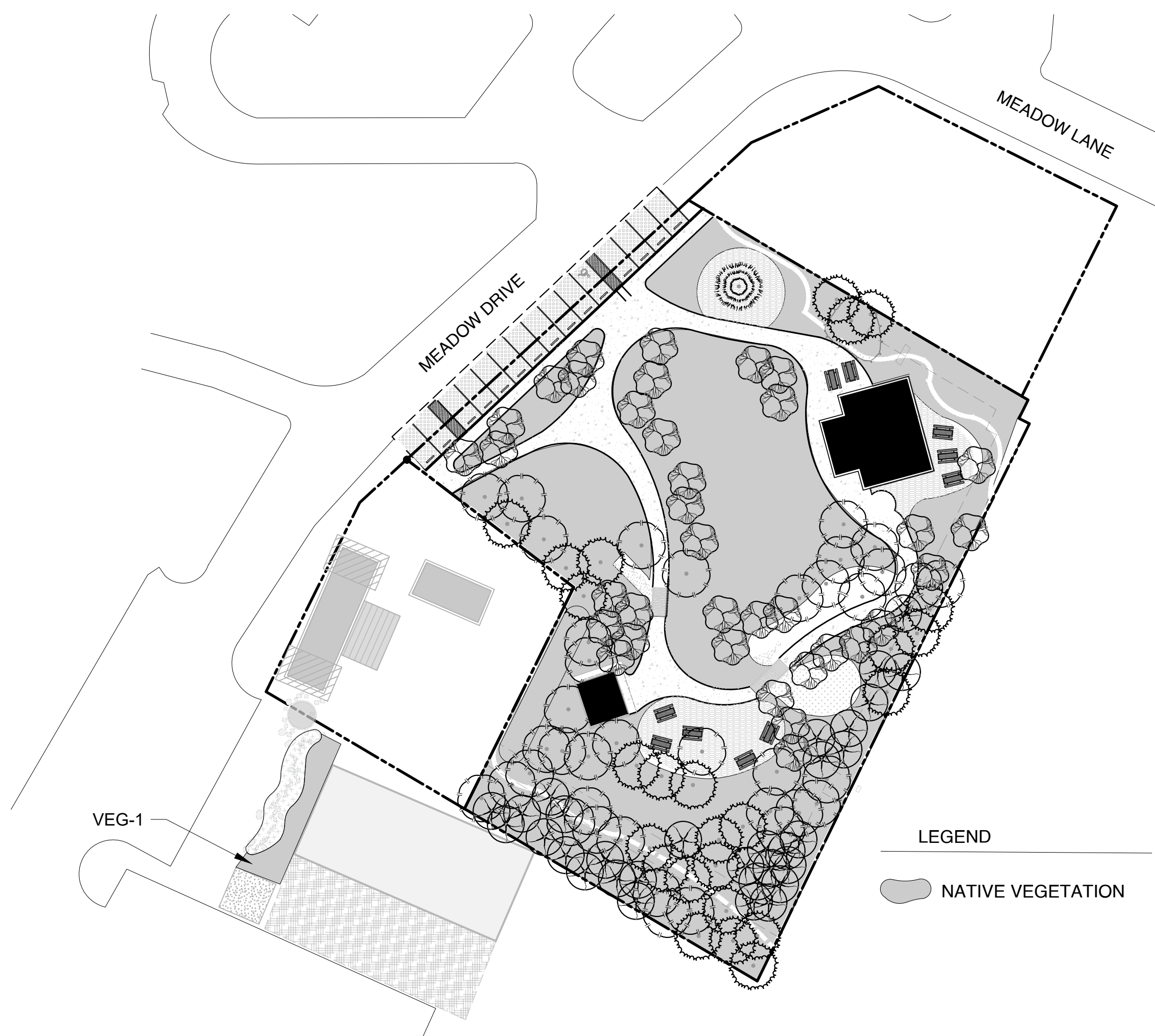
100% CD



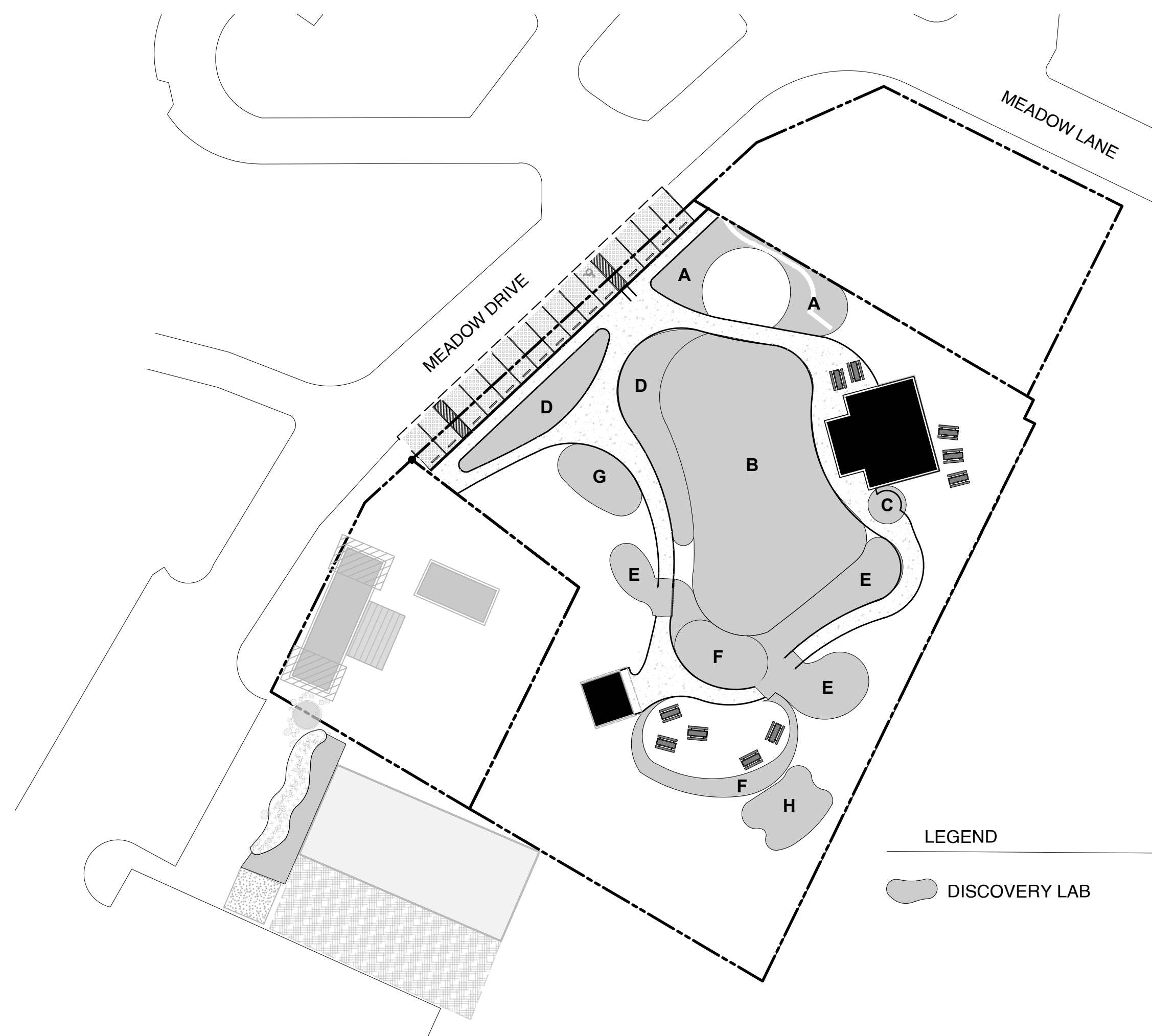
1 RAINWATER HARVESTING



2 STORMWATER BENEFITS



3 NATIVE VEGETATION AND TREES



4 DISCOVERY LABS

1 RAINWATER HARVESTING

RAINWATER HARVESTING BENEFIT					
PROPOSED BMP RUNOFF TREATMENT	PLAN REFERENCE	TANK VOLUME GAL	DMA ID	DMA AREA ACRES	TREATED DMA VOLUME AFY
RAINWATER HARVESTING TANKS	TANK-1	4,333	DMA-4A	0.02	0.10
	TANK-2	5,000			
	TANK-3	5,000			
	TANK-4	5,000			
	TANK-5	5,000	DMA-4B	0.04	0.19
	TANK-6	5,000			
	TANK-7	5,000			
	TANK-8	5,000			
TOTAL		39,333		0.05	0.29

2 STORMWATER BENEFITS

STORMWATER BENEFITS				
PROPOSED BMP RUNOFF TREATMENT	PLAN REFERENCE	AREA (SQ-FT)	TOTAL AREA (SQ-FT)	MINIMUM REQUIRED (SQ-FT)
BIORETENTION BASIN	SW-1	1,004	1,004	900
	SW-2	327		
BIOSWALES	SW-3	3,166	27,315	25,800
	SW-4	698		
	SW-5	500		
	SW-6	4,810		
	SW-7	6,789		
	SW-8	11,025		
TOTAL			28,319	
PERMEABLE PAVEMENT-PARKING	SW-9	2,672	2,672	2,400
PERMEABLE PAVEMENT-PATHWAY	SW-10	5,656	5,628	5,400

NOTE: A BIOSWALE IS A VEGETATED, SHALLOW DEPRESSION THAT IS DESIGNED TO CAPTURE AND TREAT STORMWATER RUNOFF.

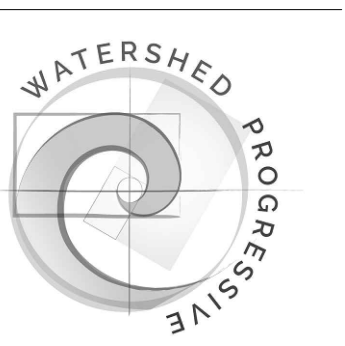
3 NATIVE VEGETATION AND TREES

NATIVE VEGETATION BENEFIT				
PROPOSED BMP RUNOFF TREATMENT	PLAN REFERENCE	AREA (SQ-FT)	TOTAL AREA (SQ-FT)	MINIMUM REQUIRED (SQ-FT)
NATIVE VEGETATION	VEG-1	622	622	500

NATIVE VEGETATION BENEFIT		
PROPOSED BMP RUNOFF TREATMENT	NUMBER OF TREES	MINIMUM NUMBER REQUIRED
TREES	124	33

4 DISCOVERY LABS

DISCOVERY LAB BENEFIT		
DISCOVERY LAB DESCRIPTION	PLAN REFERENCE	AREA (SQ-FT)
Living Food Bioswale Fence	A	1,335
Magic of Plants and Pollinators	B	6,790
Rainwater Harvesting	C	191
Stormwater Discovery	D	2,236
Water Play Discovery	E	3,299
Me-Wuk Tribal Stormwater Garden	F	1,486
Soils	G	656
Greywater	H	744
TOTAL		16,737



WATERSHED PROGRESSIVE
 WWW.WATERSHEDPROGRESSIVE.COM
 209.732.0018
 CENTRAL SIERRA OFFICE
 18653 MAIN STREET
 GROVELAND, CALIFORNIA 95321
 OJAI OFFICE
 256 N SIGNAL ST., SUITE 6
 OJAI, CALIFORNIA 93023



Twain Harte Meadows Park
 22945 Meadow Drive, Twain Harte, CA 95383

DATE: PROJECT NO.

REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

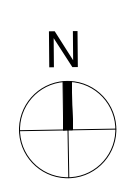
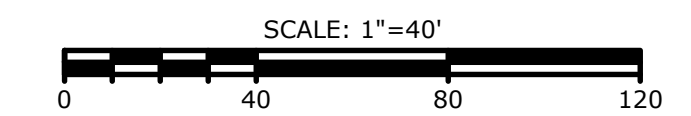
DESIGN BY: MS,JS
 DRAWN BY: MS,JS
 REVIEW BY: JPB, RH, NS

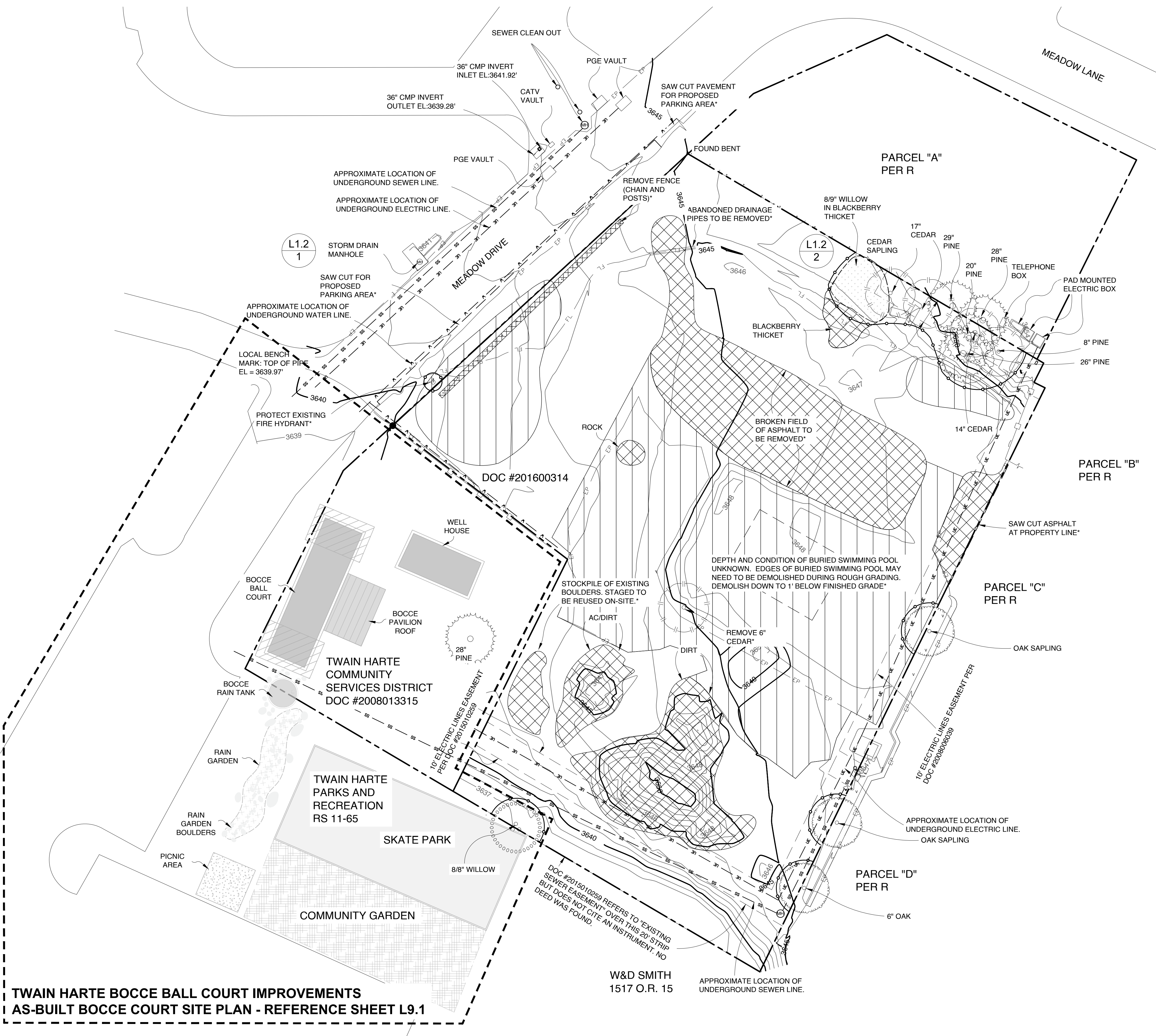
© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

STORMWATER BENEFITS

L0.1

100% CD





**TWAIN HARTE BOCCÉ BALL COURT IMPROVEMENTS
AS-BUILT BOCCÉ COURT SITE PLAN - REFERENCE SHEET L9.1**

GENERAL NOTES

- A. ALL EXISTING ACTIVE UTILITIES WORK SHALL BE AVOIDED AND PROTECTED WHEN NECESSARY THROUGHOUT CONSTRUCTION.
- B. ALL EXISTING TREES TO BE AVOIDED AND PROTECTED WITH CONSTRUCTION FENCING AT EACH TREE DRIPLINE UNLESS OTHERWISE NOTED FOR REMOVAL.
- C. 811 - KNOW WHAT'S BELOW - CALL BEFORE YOU DIG

LEGEND

- PROPERTY BOUNDARY
- 1795 - EXISTING CONTOURS 1'
- 1795 - EXISTING CONTOURS 5'
- SS 6" SANITARY SEWER
- W WATER
- FL FLOW LINE
- EP EDGE OF PAVEMENT
- FENCE
- TREE AND SITE AMENITY PROTECTION FENCE
- EXISTING POST
- v WATER VALVE
- ⊙ BOULDER
- MH MANHOLE
- ⊕ FIRE HYDRANT
- SEWER CLEAN-OUT
- DEMOLITION SCOPE
- DEMOLITION SCOPE - ASPHALT/CONCRETE TO SUBGRADE

SURVEY SHEET NOTES

TOPOGRAPHIC DATA SHOWN IS BASED ON A SURVEY CONDUCTED BY DAVID H. RAGLAND ENGINEERING AND LAND SURVEYING IN MAY 2022. THE ELEVATIONS SHOWN ON THIS SHEET ARE REFERENCED TO AN ELLIPSOID GPS OBSERVATION. THE CONVERSION FROM THIS DATUM TO NAVD88 IS -4 FT AT TWAIN HARTE MEADOWS PARK.

SHOWN DIMENSIONS ARE RECORD DATA PER RECORD OF SURVEY 45
 R - RECORD PER PM 49-17
 R2 - RECORD PER R/S 45-60

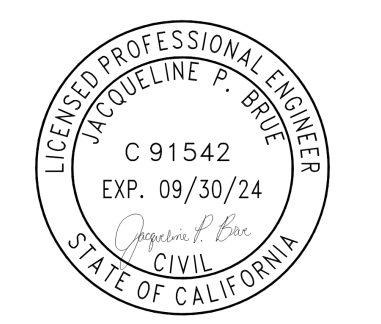
SURVEYOR
 DAVID RAGLAND
 ENGINEERING AND LAND SURVEYING
 19545 ROGERS ROAD
 PHONE: (209) 532-7491
 FAX: (209) 532-8590
 EMAIL: DRAGLAND@MLODE.COM

DEMOLITION NOTES

- A. THE INTENT OF THE DEMOLITION ON THIS PROJECT INVOLVES THE COMPLETE REMOVAL AND LEGAL DISPOSAL OF ASPHALT, CONCRETE, STOCKPILED SOIL MOUNDS, ABANDONED PIPES, AND OTHER MATERIALS AS INDICATED. *
- B. ALL ROCK LARGER THAN 6 INCHES, CONCRETE, ASPHALT, AND OTHER EXISTING MATERIALS INDICATED ON THE PLANS TO BE REMOVED FROM SITE BY CONTRACTOR. *
- C. CONTRACTOR TO VERIFY LOCATIONS OF EXISTING EQUIPMENT, PIPING AND SYSTEM COMPONENTS PRIOR TO DEMOLITION. IF EXISTING CONDITIONS ARE DIFFERENT THAN WHAT IS INDICATED ON THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH WORK. *
- D. MINIMIZE DISTURBANCE AND/OR DAMAGE TO EXISTING PROPERTY. WHERE DEMOLITION OF SYSTEM COMPONENTS DAMAGES EXISTING PROPERTY TO REMAIN OCCURS, PROPERTY SHALL BE RESTORED TO BE THE SAME CONDITION AS ORIGINAL AT CONTRACTORS COST. RESTORATION MUST BE PERFORMED BY WORKMEN SKILLED IN PERFORMING SUCH WORK. *
- E. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE SITE PRIOR TO SUBMITTING A BID. DUE TO THE NATURE OF THIS PROJECT AND THE STATE OF THE EXISTING SITE, IT IS IMPOSSIBLE TO COMPLETELY RELATE THE SCOPE OF THE DEMOLITION REQUIRED TO THE CONTRACTOR THROUGH THE CONTRACT DOCUMENTS. FAILURE TO VISIT THE SITE WILL NOT RELIEVE THE CONTRACTOR OF DEMOLITION RESPONSIBILITIES UNDER THIS CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND COORDINATE THE EXACT CONTENT OF DEMOLITION NECESSARY TO PROVIDE A RENOVATED AND UPGRADED SPACE AND TO FACILITATE NEW WORK. *
- F. VERIFY EXTENT OF PIPING, EQUIPMENT, COMPONENTS AND CONTROLS TO BE RETAINED OR REUSED PRIOR TO THE DEMOLITION OF SPECIFIC SYSTEM. PROTECT ITEMS WHICH ARE TO BE REUSED ON SITE TO MINIMIZE POST CONSTRUCTION REPAIRS. ANY ITEMS WHICH ARE DAMAGED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CONTRACT. *
- G. PROTECT ALL EXISTING TREES WHICH ARE TO REMAIN WITH TREE PROTECTION FENCING. *
- H. THE CONTRACTOR SHALL REFER TO ALL SECTIONS AND DRAWINGS OF THE CONTRACT DOCUMENTS FOR DEMOLITION OF SYSTEM COMPONENTS INCLUDED IN THE CONTRACT. NOTIFY THE ENGINEER/OWNER OF ALL DISCREPANCIES OR QUESTIONS PERTAINING TO EXTENT OF WORK PRIOR TO BIDDING. *
- I. DEMOLITION CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL OTHER CONTRACTORS INVOLVED AS DEFINED IN THE SPECIFICATIONS. *



WATERSHED PROGRESSIVE
 WWW.WATERSHEDPROGRESSIVE.COM
 209.733.0018
 CENTRAL SIERRA OFFICE
 18653 MAIN STREET
 GROVELAND, CALIFORNIA 95321
 OJAI OFFICE
 206 N SIGNAL ST., SUITE 6
 OJAI, CALIFORNIA 93023



Twain Harte Meadows Park
22945 Meadow Drive, Twain Harte, CA 95383

DATE: PROJECT NO.

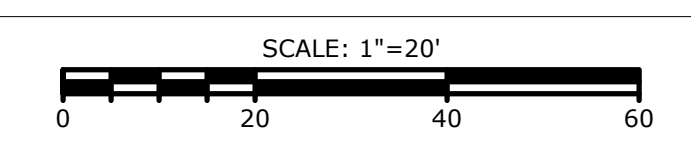
REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

DESIGN BY: MS
 DRAWN BY: MS,JS
 REVIEW BY: JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

EXISTING CONDITIONS SURVEY AND DEMOLITION

L1.1

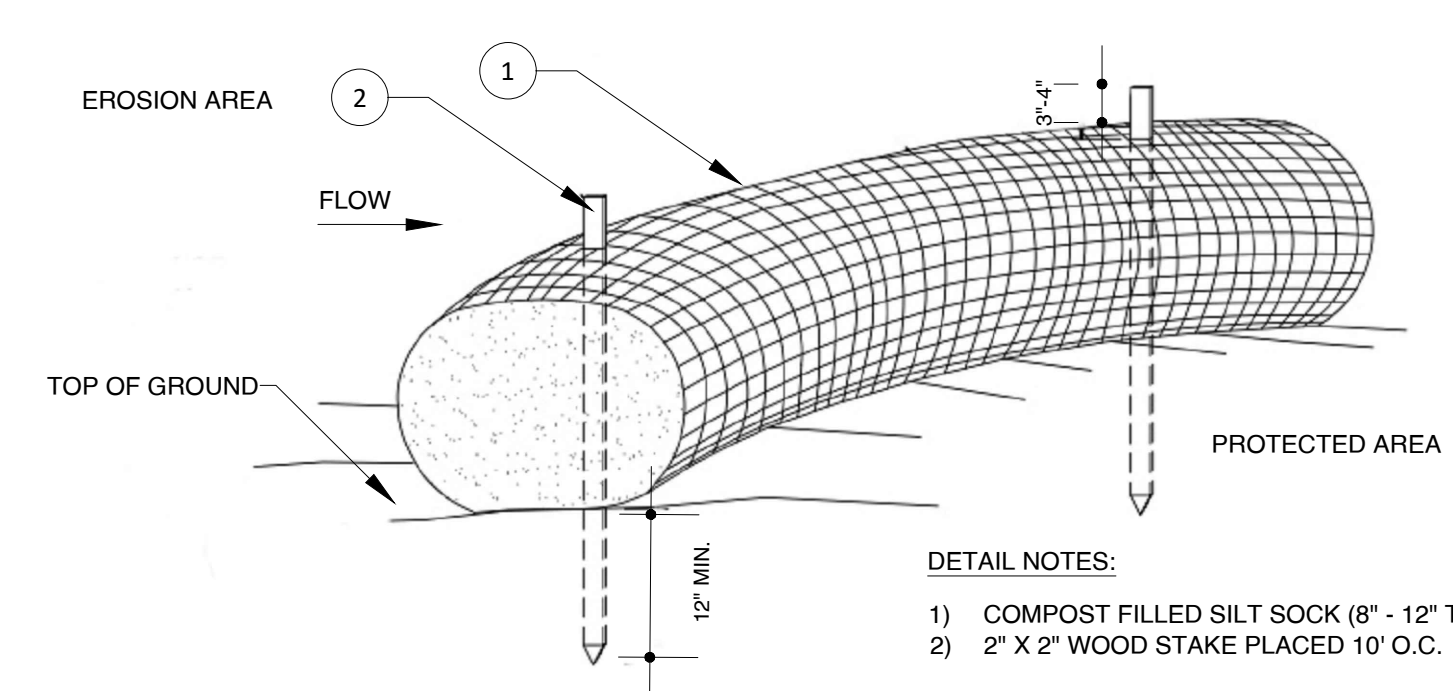




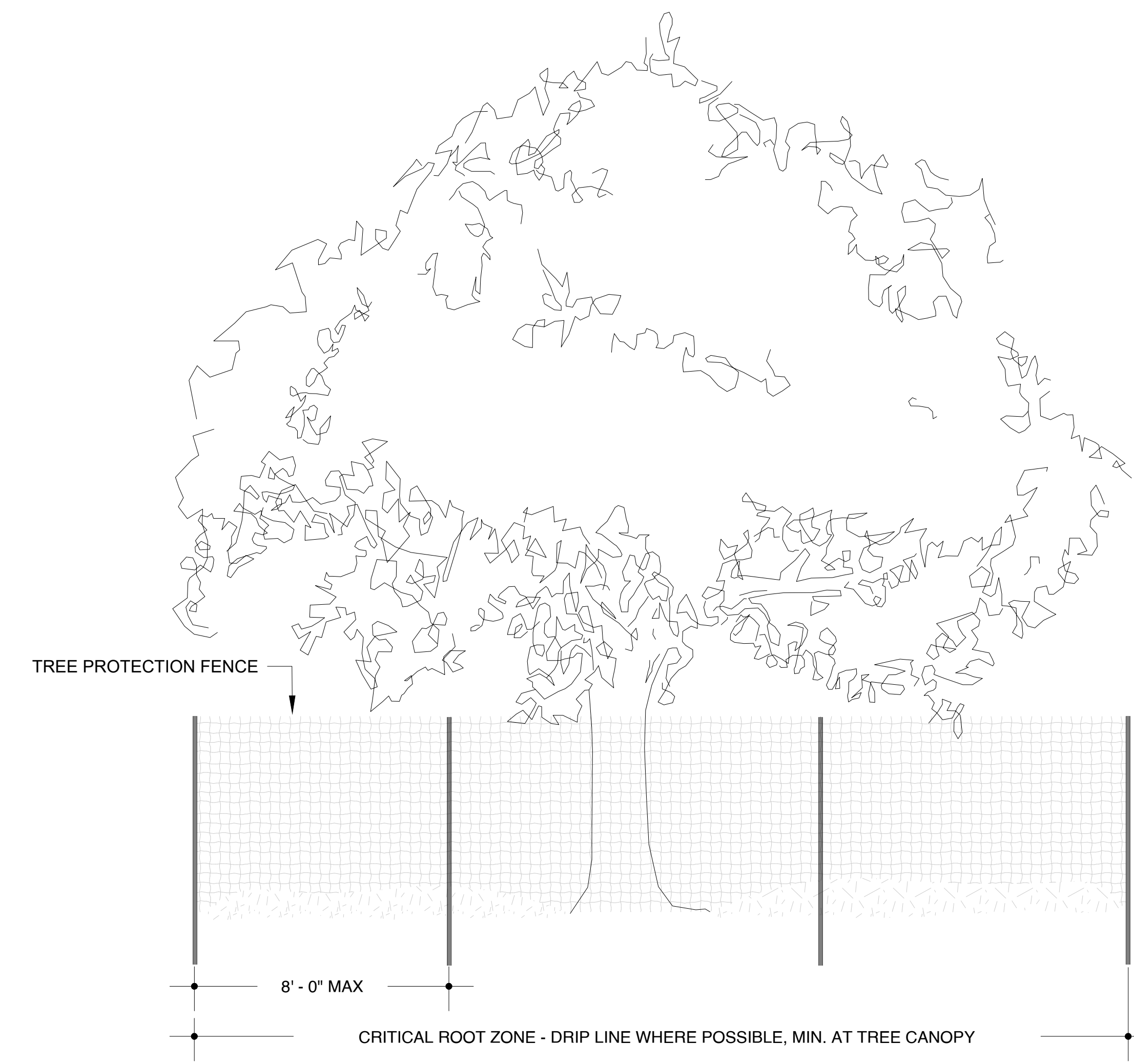
WATERSHED PROGRESSIVE
 WWW.WATERSHEDPROGRESSIVE.COM
 209.732.0019
 CENTRAL SIERRA OFFICE
 18653 MAIN STREET
 GROVELAND, CALIFORNIA 95321
 OJAI OFFICE
 206 N SIGNAL ST., SUITE 6
 OJAI, CALIFORNIA 93023



Twain Harte Meadows Park
 22945 Meadow Drive, Twain Harte, CA 95383



- DETAIL NOTES:**
- 1) COMPOST FILLED SILT SOCK (8" - 12" TYP.)
 - 2) 2" X 2" WOOD STAKE PLACED 10' O.C.
- GENERAL NOTES:**
- A. COMPOST SOCKS TO BE APPLIED DURING RAINY SEASON (MID OCTOBER TO MID APRIL).
 - B. COMPOST SOCKS THAT ARE 8 INCHES IN DIAMETER WILL BE INSTALLED ALONG 2:1 SLOPES OR STORM DRAINS.
 - C. COMPOST SOCKS THAT ARE 12 INCHES IN DIAMETER WILL BE INSTALLED ALONG THE TOE OF 4:1 SLOPES OR STORM DRAINS.
 - D. COMPOST SOCK WILL BE INSTALLED IN ACCORDANCE WITH CAL-TRANS STANDARD PLAN H51.
 - E. COMPOST SOCK WILL BE MADE OF NATURAL FIBERS (E.G., COTTON, JUTE, SISAL, BURLAP, WOOD-BASED YARN, OR COIR). THE COMPOST SOCK SHOULD NOT CONTAIN A POLYPROPYLENE MESH.



- DETAIL NOTES:**
1. CONTRACTOR SHALL USE TREE PROTECTION FENCING TO PROTECT OAK AND OTHER NATIVE TREES DURING CONSTRUCTION - INCLUDING INVASIVE TREE REMOVAL, GRADING, AND OTHER CONSTRUCTION - TO PROTECT CRITICAL ROOT ZONE.
 2. CONTRACTOR SHALL NOT CUT OR FILL WITHIN CRITICAL ROOT ZONE DURING GRADING.
 3. CONTRACTOR SHALL CONSULT A CERTIFIED ARBORIST BEFORE CUTTING ROOTS ON OAKS AND OTHER NATIVE TREES.
 4. CONTRACTORS SHALL NOT STOCKPILE CONSTRUCTION MATERIALS, TOOLS, OR MACHINERY WITHIN CRITICAL ROOT ZONE.
 5. WHEN REMOVING INVASIVE TREES IN CLOSE PROXIMITY TO OAKS AND OTHER NATIVE TREES WHERE FENCING MAY NOT BE POSSIBLE, CONTRACTOR SHALL USE AS MUCH PROTECTION AS IS POSSIBLE TO AVOID DISTURBING ROOT ZONE.
 6. WHEN LAWN REMOVAL AND NEW PLANTING IS SPECIFIED WITHIN CRITICAL ROOT ZONE, CONTRACTOR SHALL TAKE PRECAUTIONS TO MINIMIZE ROOT DISTURBANCE.

REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

DESIGN BY: MS
 DRAWN BY: MS,JS
 REVIEW BY: JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

DEMOLITION AND EROSION CONTROL DETAILS

L1.2



GENERAL NOTES

- A. ALL EXISTING ACTIVE UTILITIES WORK SHALL BE AVOIDED AND PROTECTED WHEN NECESSARY THROUGHOUT CONSTRUCTION.
- B. 811 - KNOW WHAT'S BELOW - CALL BEFORE YOU DIG
- C. TOPOGRAPHIC DATA SHOWN IS BASED ON A SURVEY CONDUCTED BY DAVID H. RAGLAND ENGINEERING AND LAND SURVEYING IN MAY 2022. THE ELEVATIONS SHOWN ON THIS SHEET ARE REFERENCED TO AN ELLIPSOID GPS OBSERVATION. THE CONVERSION FROM THIS DATUM TO NAVD88 IS -4 FT AT TWAIN HARTE MEADOWS PARK.
- D. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING HIS OR HER OWN QUANTITY TAKE-OFF. QUANTITIES ARE PROVIDED AS ESTIMATE ONLY AND AS SUCH ARE NOT TO BE USED FOR BID PURPOSES UNLESS VERIFIED.
- E. THE ELEVATIONS SHOWN ON THIS PLAN REPRESENT FINISHED GRADE (FG).

LEGEND

- PROPERTY BOUNDARY
- - - BIOSWALE CENTER CHANNEL LINE
- LOD --- LIMIT OF DISTURBANCE
- (E) EXISTING
- (N) NEW

- SHEET NOTES
- * 1 SEE PUBLIC RESTROOM COMPANY PLANS FOR RESTROOM PAD DETAILS. 284 SF
 - * 2 PROPOSED PAVILION (SEE STRUCTURAL PLANS)*
 - * 3 PROPOSED RETAINING WALL (SEE DETAIL 1 ON SHEET L2.4)* 23 LF
 - * 4 3-INCH HDPE PIPE 63 LF
 - * 5 6-INCH HDPE PIPE 38 LF
 - * 6 CATCH BASIN INLET (SEE DETAIL 4 ON SHEET L2.3) 4 EA
 - * 7 GRAVEL PAD FOR RAIN TANK FARM (SEE DETAIL 10 ON SHEET L6.4) 106 SF
 - * 8 PREFORMED SCOUR HOLE (SEE DETAIL 3 ON SHEET L2.3) 4 EA
 - * 9 GRAVEL PAD FOR RAINWATER HARVESTING DISCOVERY LAB (SEE DETAIL 10 ON SHEET L6.4) 744 SF
 - * 10 PERMEABLE PATHWAY (SEE SHEET L3.2) 5656 SF
 - * 11 TRUEGRID PRO PLUS PERMEABLE PAVEMENT (OR APPROVED EQUAL) PARKING LOT (SEE DETAIL 2 ON SHEET L2.4) 2366 SF
 - * 12 SINGLE CURB (SEE CALTRANS STANDARD PLAN A87A, TYPE B1-6) 157 LF
 - * 13 ADA CURB RAMP (SEE CALTRANS STANDARD PLAN A88A, CASE C) 1 EA
 - * 14 TRUEGRID PERMEABLE DECK OR APPROVED EQUAL 306 SF
 - * 15 TRUEGRID SNOWSPOT PAVING MARKERS OR APPROVED EQUAL
 - * 16 TANK-3 EXCAVATION (SEE DETAIL 12 ON SHEET L6.5)
 - * 17 WATER PLAY DISCOVERY LAB (SEE SHEET L8.1)
 - * 18 GRAVEL OR WALKABLE MULCH BASE FOR WOODEN FLUME 220 SF
 - * 19 SAWCUT TO CREATE A CLEAN EDGE WITH EXISTING PAVEMENT. ENSURE PAVERS ARE FLUSH OR SLIGHTLY RECESSED BELOW SURROUNDING GRADE. (SEE DETAIL 3 ON SHEET L2.4) 149 LF
 - * 20 PAINT VISUAL CONNECTION OF EXISTING BOCCO BALL COURTS TO PROPOSED TWAIN HARTE MEADOWS PARK
 - * 21 PEDESTRIAN BOARDWALK (SEE USFS STANDARD PLAN FOR SAWN TIMBER STRINGER TRAIL BRIDGE) 141 SF
 - * 22 EXISTING BIOSWALE (SEE SHEET L9.1)
 - * 23 EXISTING RAIN TANK (SEE SHEET L9.1)
 - * 24 LIMITS OF DISTURBANCE 0.95 AC
 - * 25 GRAVEL ACCESS WALKWAY FOR RESTROOM 62 SF

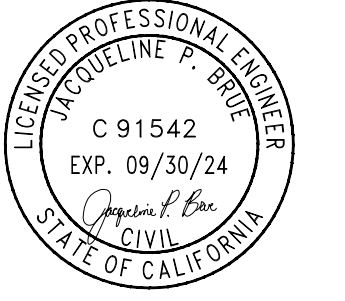
L2.3 (N) SECTION CUT FOR RAIN GARDEN DETAIL 1
 L2.3 (N) SECTION CUT FOR RAIN GARDEN DETAIL 2

ESTIMATED EARTHWORK QUANTITIES	
RAW FINISHED GRADE CUT (-)	1,104 CY
RAW FINISHED GRADE FILL (+)	280 CY
FILL REDUCTION FOR MATERIALS BELOW FG (-)	129 CY
FILL INCREASE FOR DIRT LOSS ACROSS GRADING AREA (+)	164 CY
NET QUANTITY (+ FOR IMPORT)	-790 CY
DEPTH IMBALANCE ACROSS THE GRADING AREA	-0.5 FT

NOTE: 150 CY OF GRADE CUT CAN BE ATTRIBUTED TO THE DEBRIS PILES DEPICTED IN THE TOPOGRAPHIC SURVEY.



WATERSHED PROGRESSIVE
 WWW.WATERSHEDPROGRESSIVE.COM
 209.732.0018
 CENTRAL SIERRA OFFICE
 18653 MAIN STREET
 GROVELAND, CALIFORNIA 95621
 OJAI OFFICE
 256 N SIGNAL ST., SUITE 6
 OJAI, CALIFORNIA 93023



Twain Harte Meadows Park
 22945 Meadow Drive, Twain Harte, CA, 95383

DATE: PROJECT NO.

REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

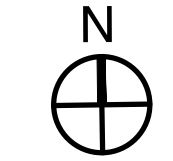
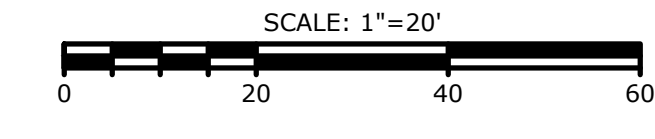
DESIGN BY: ABR
 DRAWN BY: JS, MS
 REVIEW BY: RH, NS, JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

GRADING AND DRAINAGE PLAN

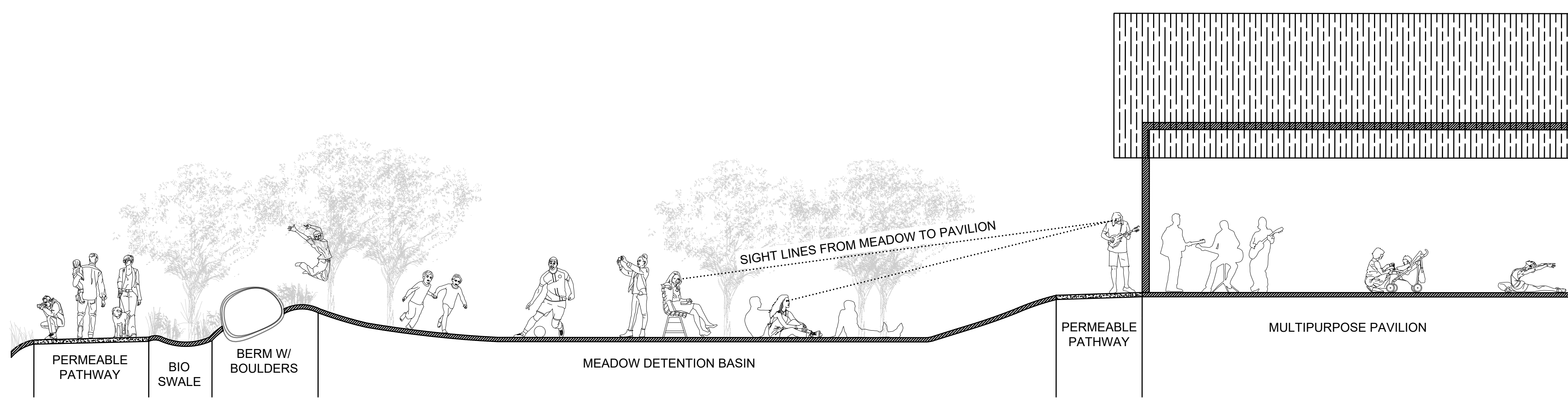
L2.1

100% CD

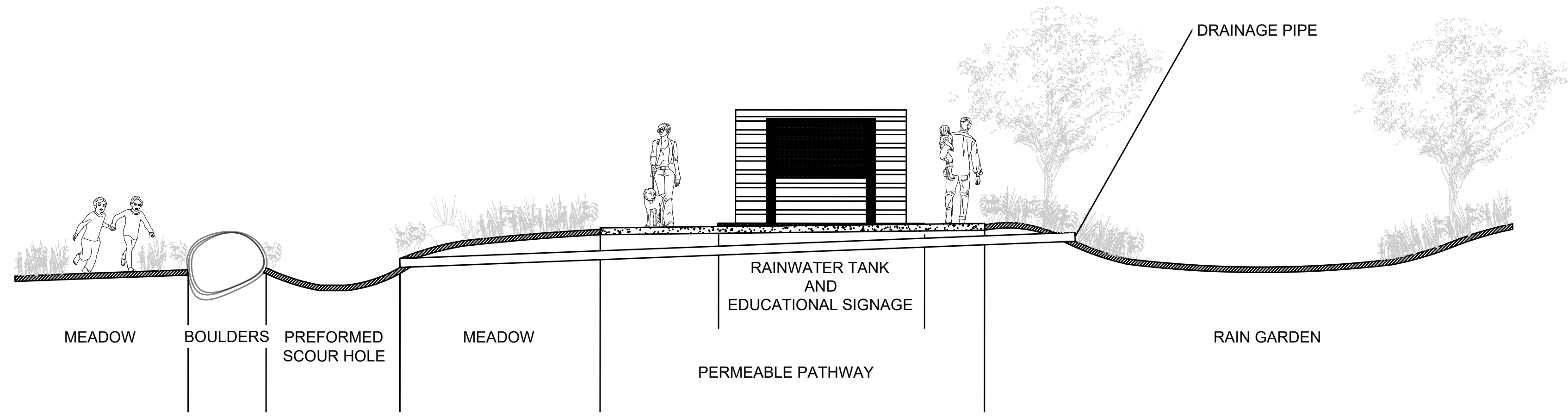
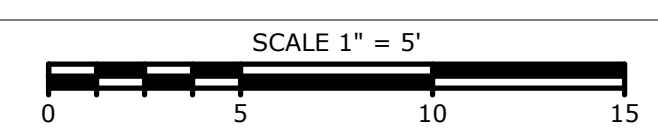




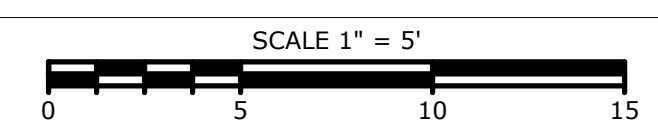
WATERSHED PROGRESSIVE
 WWW.WATERSHEDPROGRESSIVE.COM
 209.733.0019
 CENTRAL SIERRA OFFICE
 18653 MAIN STREET
 GROVELAND, CALIFORNIA 95321
 OJAI OFFICE
 206 N SIGNAL ST., SUITE 6
 OJAI, CALIFORNIA 93023



1 SECTION: PAVILION AND MEADOW



2 SECTION: RAIN GARDEN TO MEADOW



Twain Harte Meadows Park
 22945 Meadow Drive, Twain Harte, CA, 95383

DATE:
 PROJECT NO.

REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

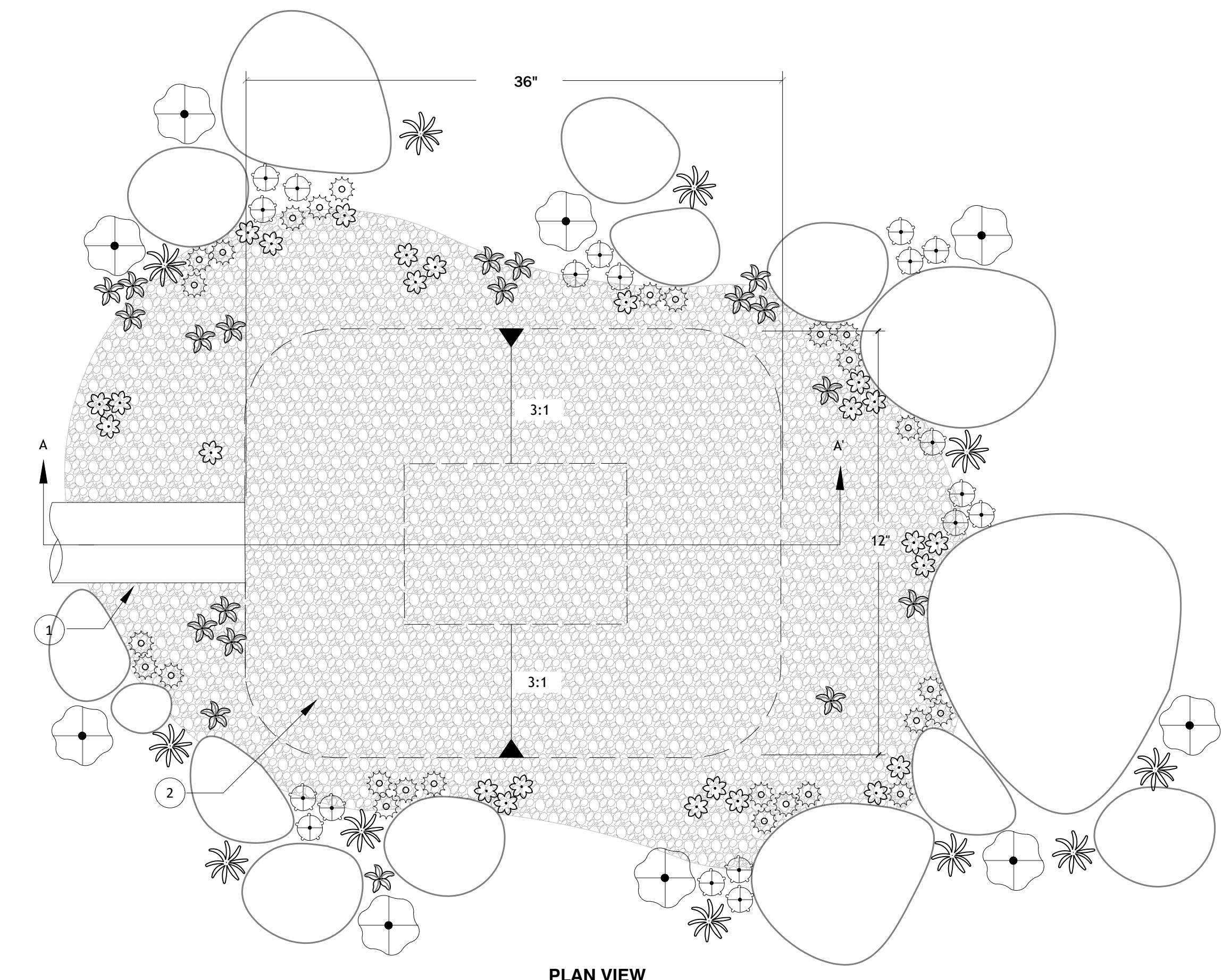
DESIGN BY: ABR
 DRAWN BY: JS, MS
 REVIEW BY: RH, NS, JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

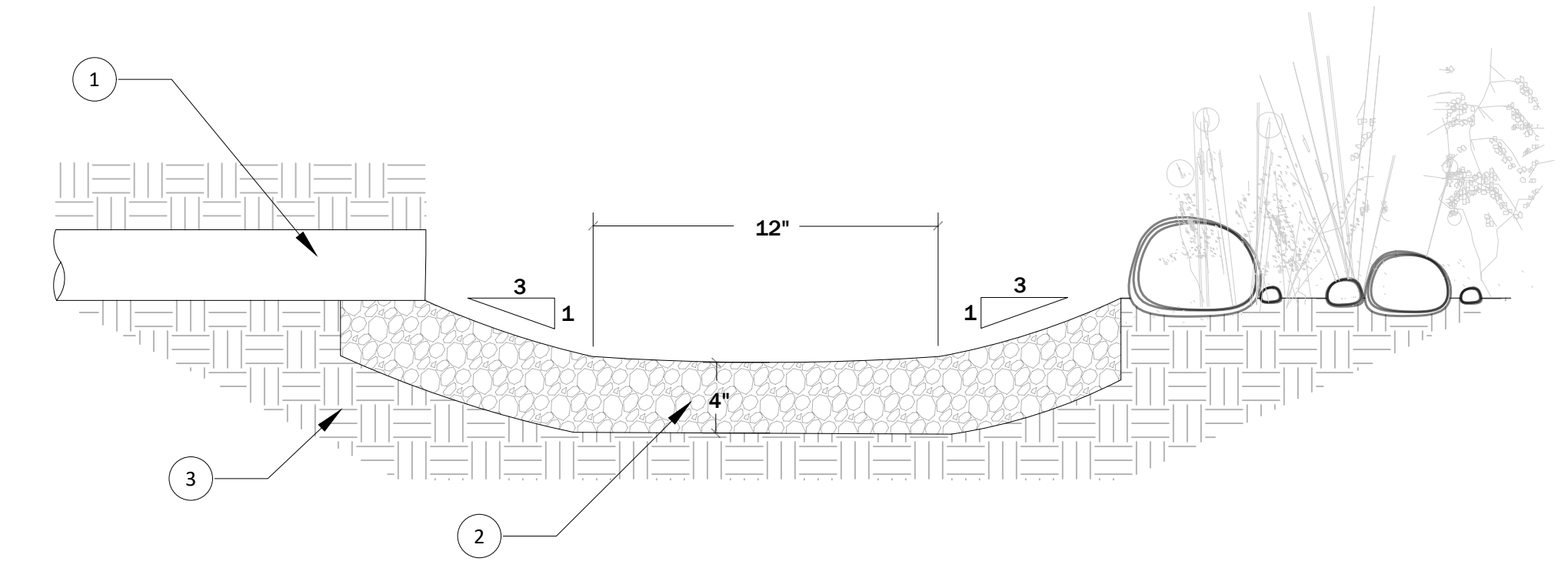
GRADING AND DRAINAGE SECTIONS

L2.2

100% CD



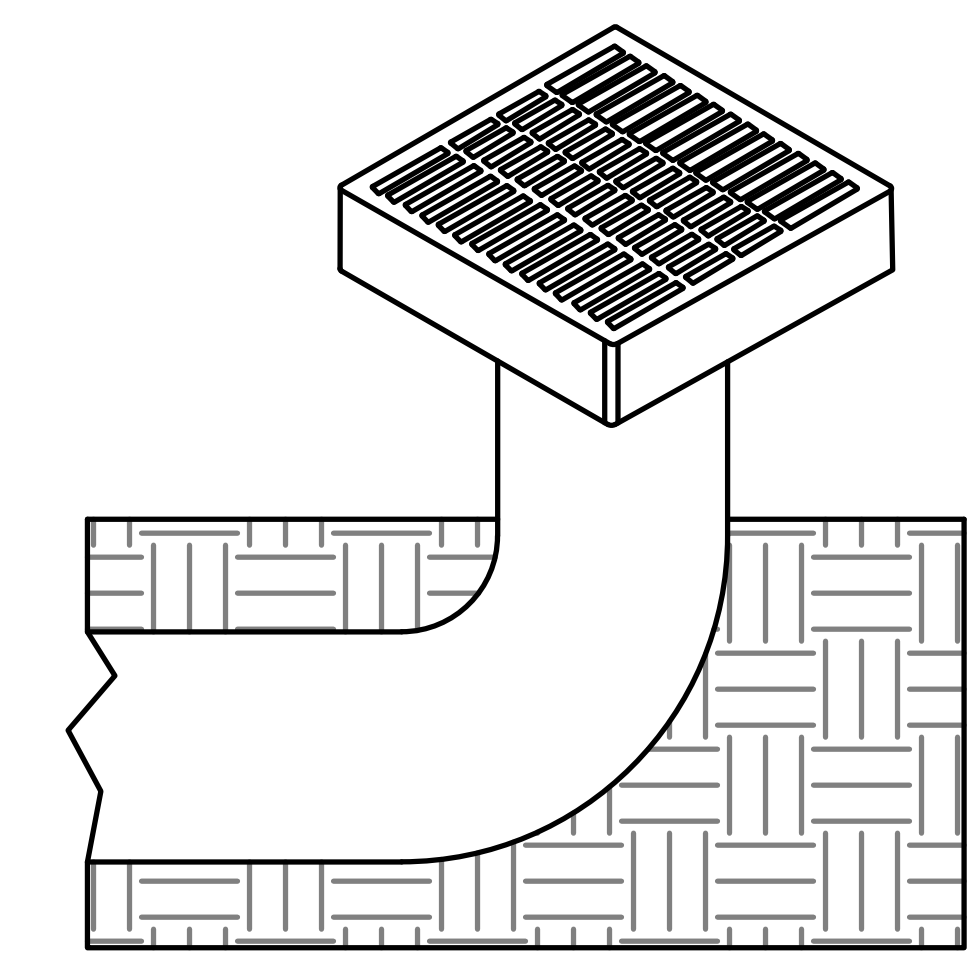
PLAN VIEW



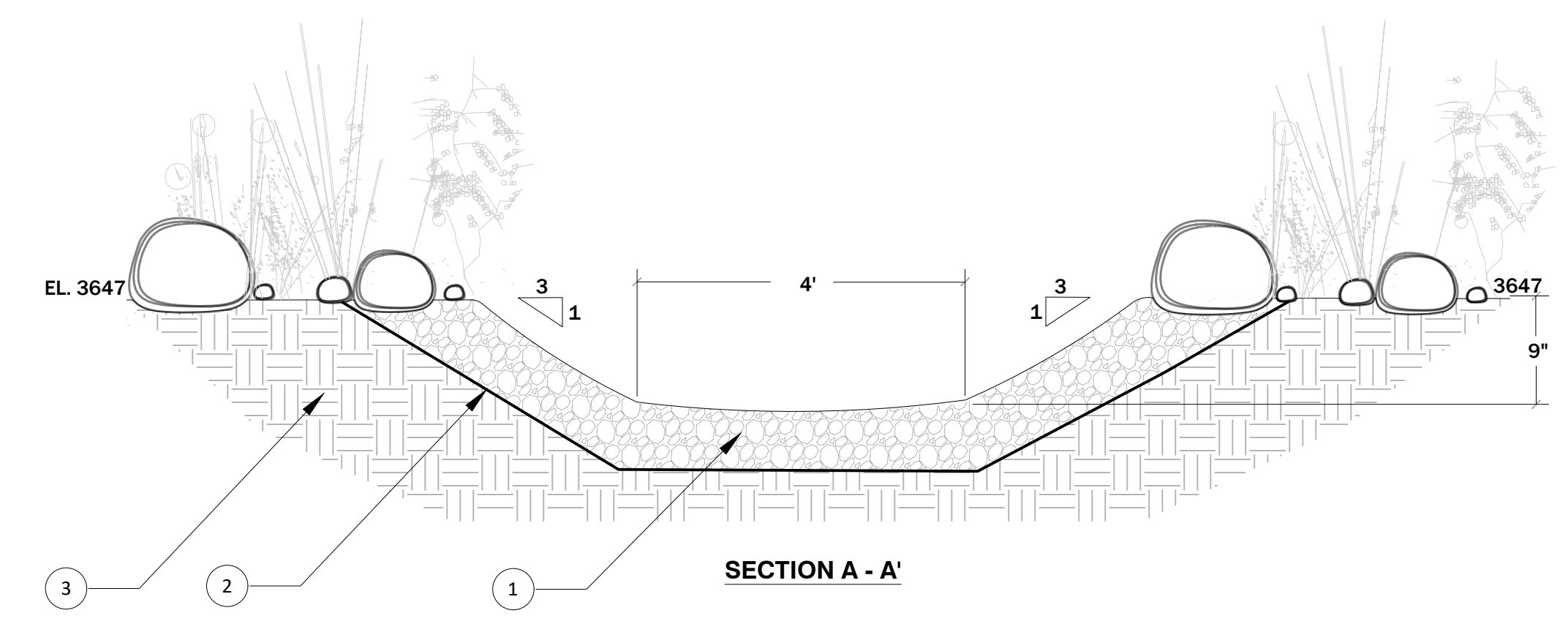
SECTION A - A'

- DETAIL NOTES:
1. HDPE PIPE (SIZE VARIES - REFERENCE PLANS)
 2. GRAVEL (CLASS II PERMEABLE)
 3. UNDISTURBED SUBGRADE

3 PREFORMED SCOUR HOLE
 NOT TO SCALE



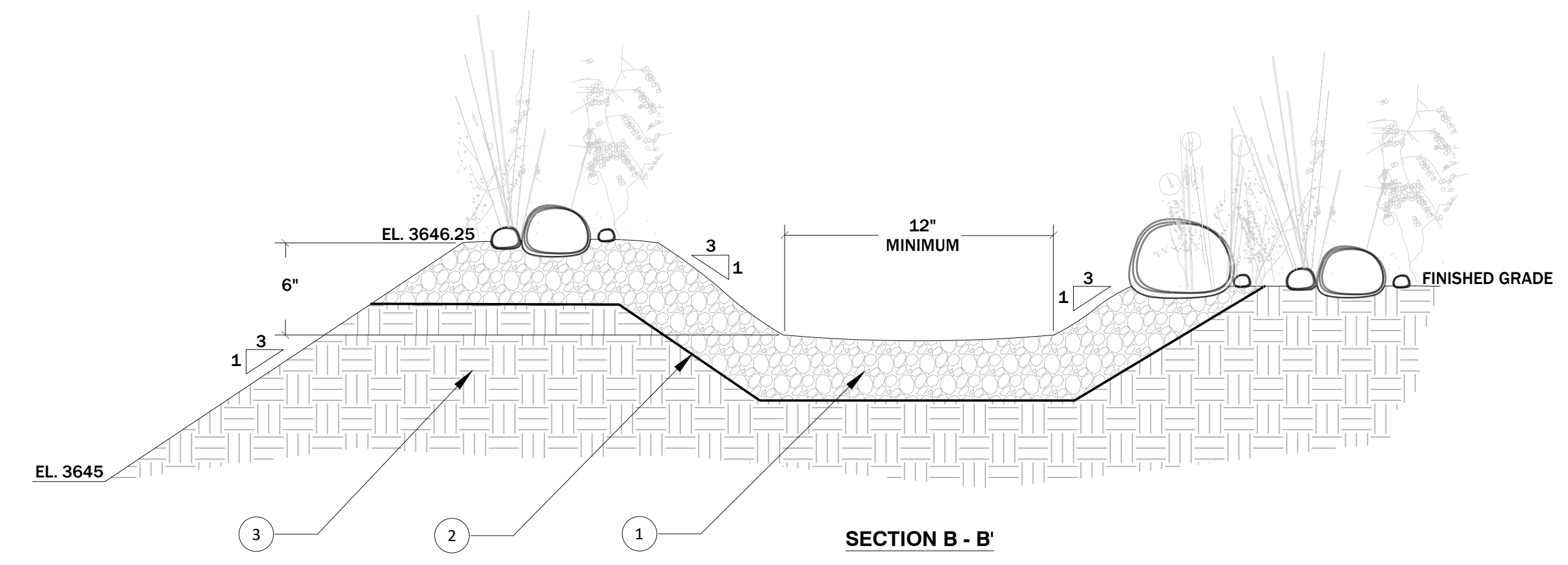
4 INLET BOX FOR HDPE PIPES (TYP.)
 NOT TO SCALE



SECTION A - A'

- DETAIL NOTES:
1. 6" GRAVEL (CLASS II PERMEABLE PER CALTRANS STD SPEC 68-2.02F(3)) COMPACTED TO 95%
 2. RSP FABRIC
 3. UNDISTURBED SUBGRADE

1 SW-4 RAIN GARDEN DETAIL
 NOT TO SCALE



SECTION B - B'

- DETAIL NOTES:
1. 6" GRAVEL (CLASS II PERMEABLE PER CALTRANS STD SPEC 68-2.02F(3)) COMPACTED TO 95%
 2. UNDISTURBED SUBGRADE

2 SW-4 RAIN GARDEN DETAIL
 NOT TO SCALE

DATE:
 PROJECT NO.

REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

DESIGN BY: ABR
 DRAWN BY: JS, MS
 REVIEW BY: RH, NS, JPB

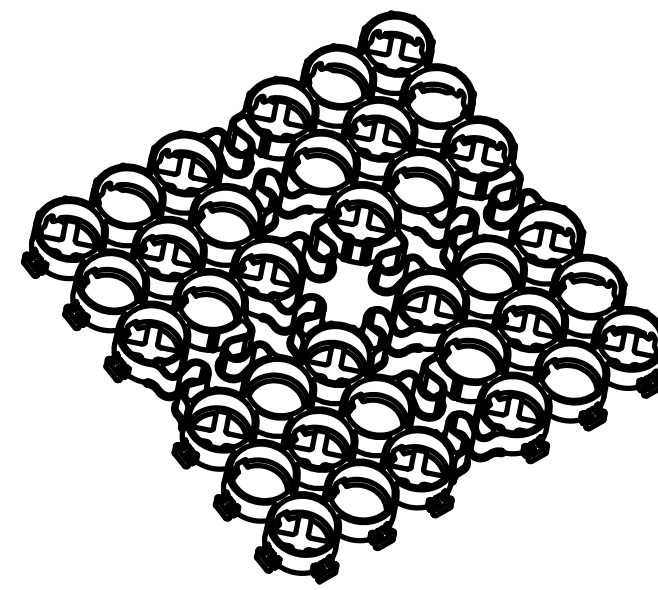
© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

GRADING AND DRAINAGE DETAILS

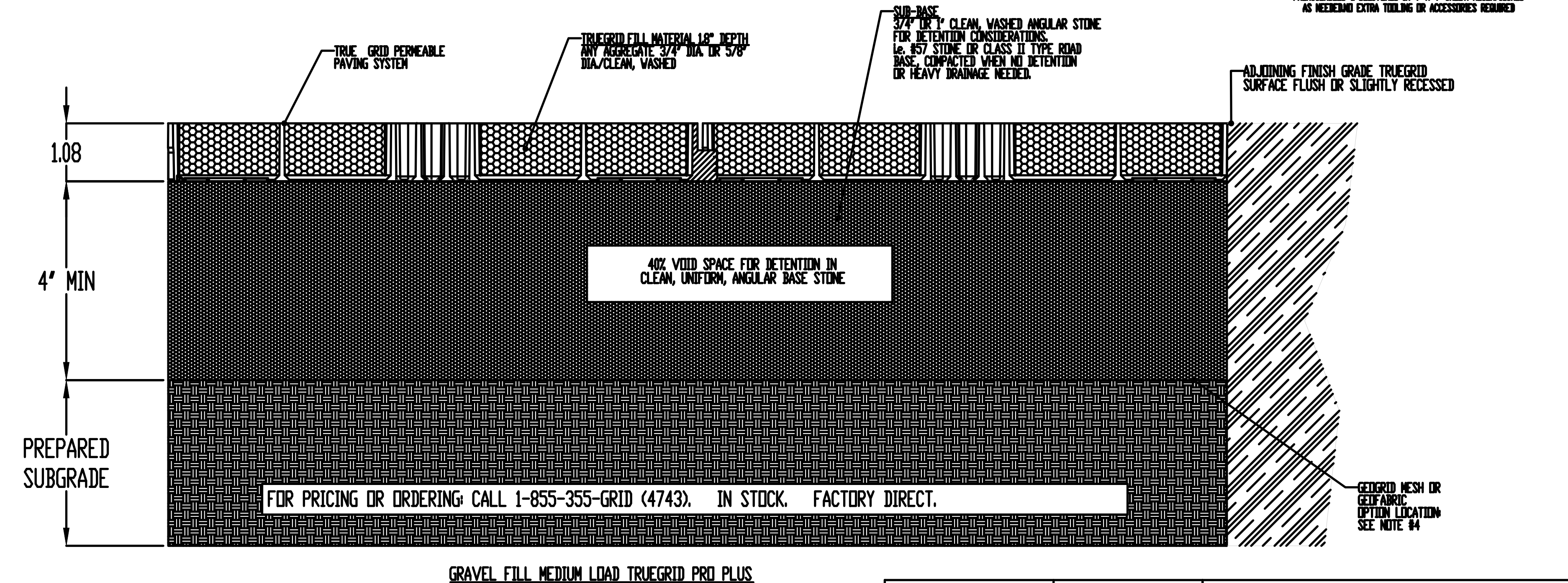
L2.3

NOTES:

- SUB-BASE DEPTH AND PREPARATION IS DEPENDENT ON SITE CONDITIONS PLUS LOADING REQUIREMENTS.
- TRUEGRID PRO PLUS PRODUCTS DESIGNED FOR LOAD CAPACITIES OF 120,000 LBS PER SQ. FT. TRUEGRID PRODUCTS STRENGTHEN WITH FILL MATERIAL.
- TRUEGRID PRO PLUS PRODUCTS ARE SUFFICIENTLY RATED FOR H-20 /HS-20 LOADING AND GREATER.
- GEGRID MESH OR GEOTEXTILE MAY BE REQUIRED BETWEEN SUB-GRADE & SUB-BASE FOR CERTAIN SOILS AND SITE SPECIFIC REQUIREMENTS.
- INCREASE SUB-BASE DEPTH FOR INCREASED STORM WATER DETENTION.
- NO STAKING NECESSARY WITH TRUEGRID PRO PLUS WHEN SLOPE IS BELOW 10 DEGREES. ASSESS PROJECT, AS NEEDED.
- FINAL ENGINEERED CROSS SECTION AGGREGATES AND DEPTH SHOULD ALLOW FOR EXPECTED INFILTRATION RATES, STORAGE CAPACITIES, OUTLET FLOW RATES, AND OTHER SITE SPECIFIC CONDITIONS AND LOAD REQUIREMENTS.
- THIS CROSS SECTION IS FOR INFORMATION ONLY.



TRUEGRID BLOCK REFERENCE VIEW
PREASSEMBLED & DELIVERED IN 4' X 4' SHEET. REINFORCED AS NEEDED EXTRA TOOLING OR ACCESSORIES REQUIRED



FOR PRICING OR ORDERING, CALL 1-855-355-GRID (4743). IN STOCK. FACTORY DIRECT.

APPLICATION: PARKING LOT, RV PARKING, PARKING PADS, DRIVEWAYS		1-855-355-GRID (4743)		CLIENT / PROJECT		TRUEGRID	
MADE IN U.S.A.		TRUEGRID PRO PLUS		TRUEGRID GRAVEL FILL INSTALLATION MEDIUM LOAD		TG-GRV-ML	
REVISED THROUGH STATIONS		DATE		DATE		DATE	
REV	BY	DATE	DATE	DATE	DATE	DATE	DATE

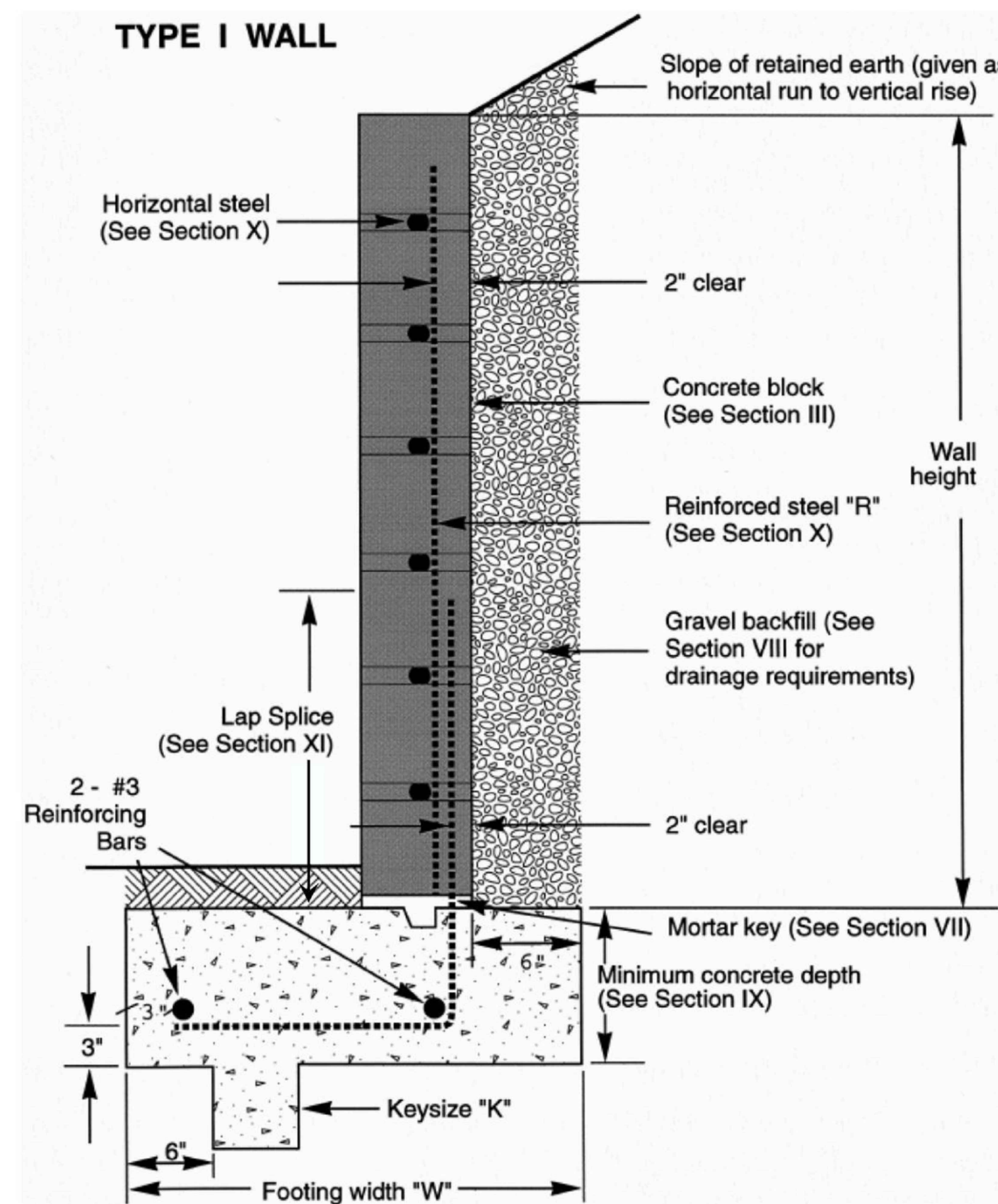
2 GRAVEL FILL MEDIUM LOAD PERMEABLE PAVER
NOT TO SCALE

TABLE A

Wall Height (feet)	Slope of Retained Earth (Horizontal Run to Vertical Rise)																			
	Level			3 to 1			2 to 1			1.5 to 1			1 to 1							
	T	R	K	T	R	K	T	R	K	T	R	K	T	R	K					
1.5'	A	1	N	1'-4"	A	1	N	1'-4"	A	1	N	1'-4"	A	1	N	1'-6"	A	1	N	1'-7"
2.0'	A	1	N	1'-4"	A	1	N	1'-4"	A	1	N	1'-4"	A	1	D	1'-8"	A	1	D	1'-10"
2.5'	A	1	N	1'-7"	A	1	N	1'-7"	A	1	N	1'-7"	A	1	D	1'-10"	A	1	E	2'-2"
3.0'	A	1	N	2'-0"	A	1	N	2'-0"	A	1	D	2'-0"	A	1	E	2'-2"	B	1	F	2'-5"
3.5'	A	1	N	2'-1"	A	3	D	2'-1"	A	3	D	2'-1"	B	1	E	2'-4"	B	4	F	3'-4"
4.0'	B	1	N	2'-4"	B	1	D	2'-4"	B	1	D	2'-4"	B	4	F	2'-5"	B	6	G	3'-4"
4.5'	B	1	N	2'-6"	B	2	D	2'-6"	B	4	E	2'-6"	B	6	F	3'-1"	C	5	G	3'-9"
5.0'	B	4	D	2'-9"	B	5	E	2'-9"	B	6	F	2'-9"	C	5	G	3'-5"				
5.5'	B	5	D	3'-0"	B	6	E	3'-0"	C	5	F	3'-2"	C	5	G	3'-9"				
6.0'	C	5	E	3'-3"	C	5	E	3'-4"	C	5	F	3'-6"	C	6	G	4'-2"				
7.0'	C	5	E	3'-10"	C	6	G	3'-11"	C	7	G	4'-1"								
8.0'	C	5	G	4'-6"																

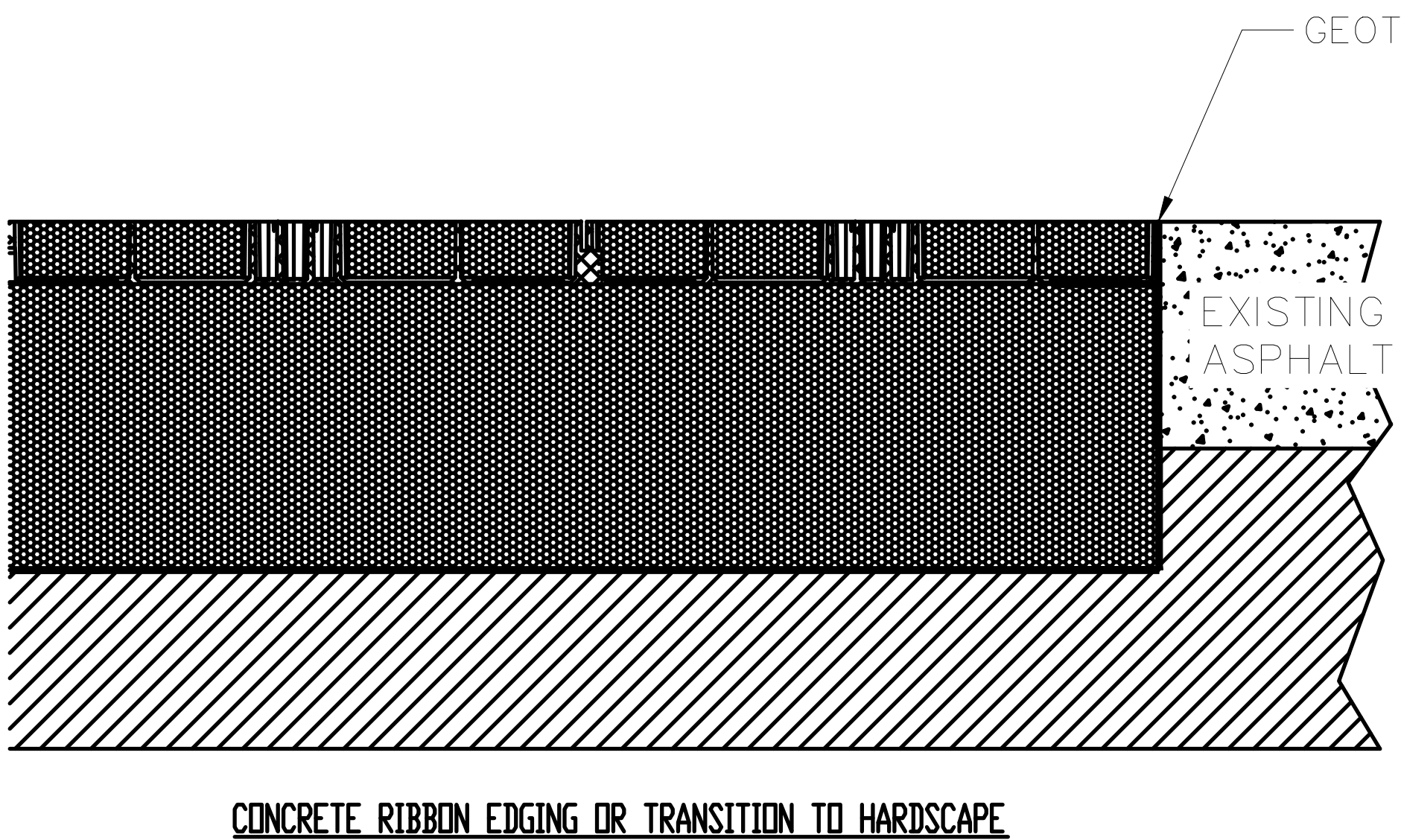
TABLE B

T Wall Type*	R Reinforcing Steel	K Key Size (Width x Depth)
A - Type I, 6" block	1 - #3 Bars @ 24" o.c.	D - 6" x 6"
B - Type I, 8" block	2 - #4 Bars @ 32" o.c.	E - 8" x 8"
C - Type II, first 32" of block must be 12" wide masonry, regardless of wall height (see sketch), 8" block for remainder	3 - #3 Bars @ 16" o.c. 4 - #4 Bars @ 24" o.c. 5 - #4 Bars @ 16" o.c. 6 - #5 Bars @ 16" o.c.	F - 12" x 12" G - 12" x 18" N - None
	7 - #6 Bars @ 16" o.c.	

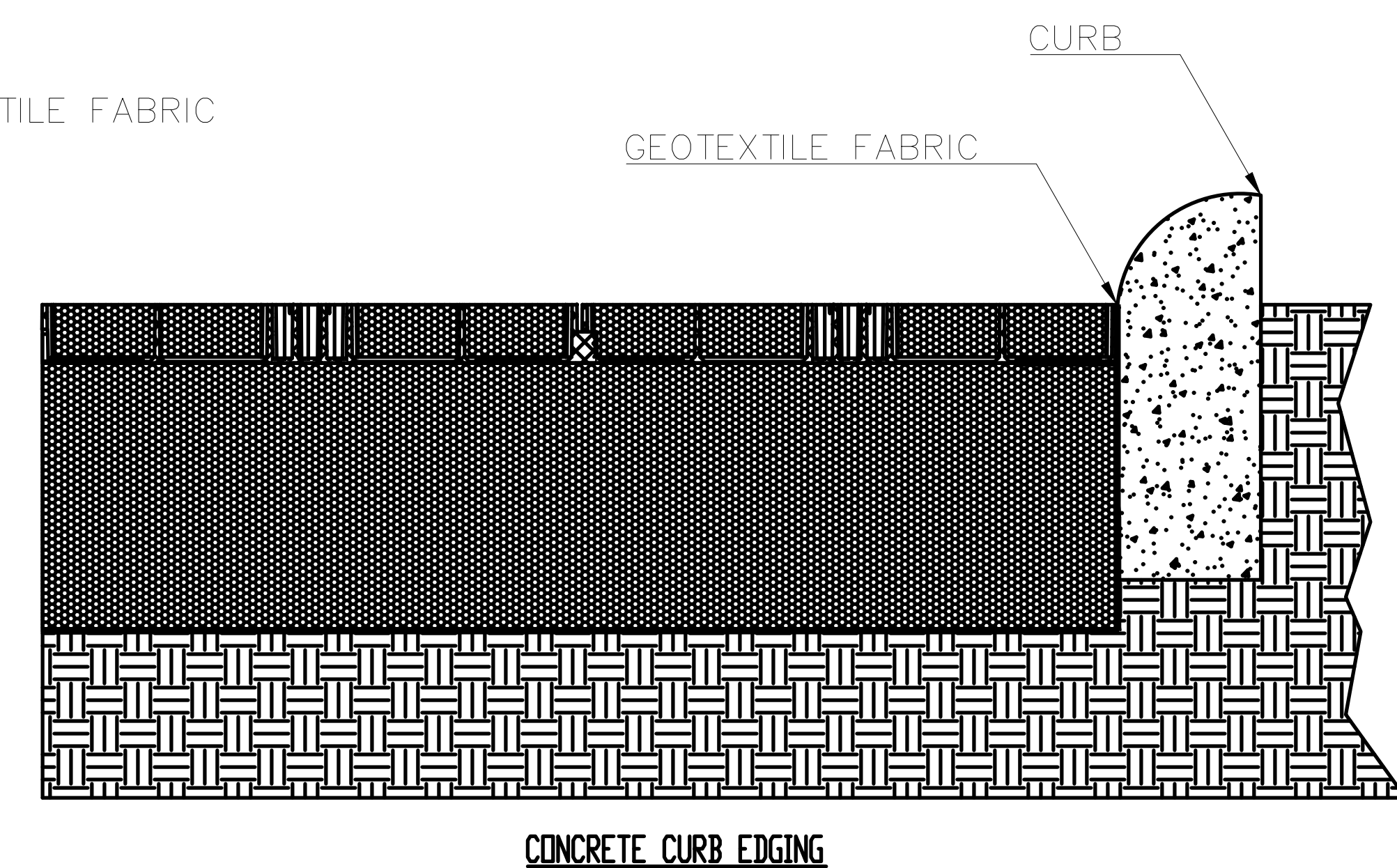


NOTE: The bottom leading edge of all retaining wall footings shall be 7'-0" minimum from FACE of slopes where the ground slopes away from the wall.
COUNTY OF SAN DIEGO, PLANNING AND DEVELOPMENT SERVICES

1 PAVILION RETAINING WALL DETAIL
NOT TO SCALE



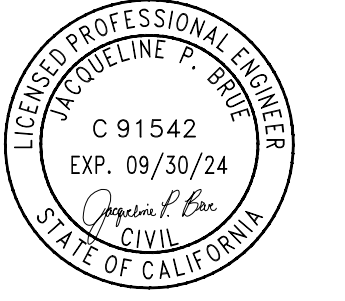
3 PERMEABLE PAVER TRANSITION TO HARDSCAPE AND CURB
NOT TO SCALE



CONCRETE CURB EDGING



WATERSHED PROGRESSIVE
WWW.WATERSHEDPROGRESSIVE.COM
209.732.0018
CENTRAL SIERRA OFFICE
18653 MAIN STREET
GROVELAND, CALIFORNIA 95321
OJAI OFFICE
256 N SIGNAL ST., SUITE 6
OJAI, CALIFORNIA 93023



Twain Harte Meadows Park
22945 Meadow Drive, Twain Harte, CA, 95383

DATE: PROJECT NO.

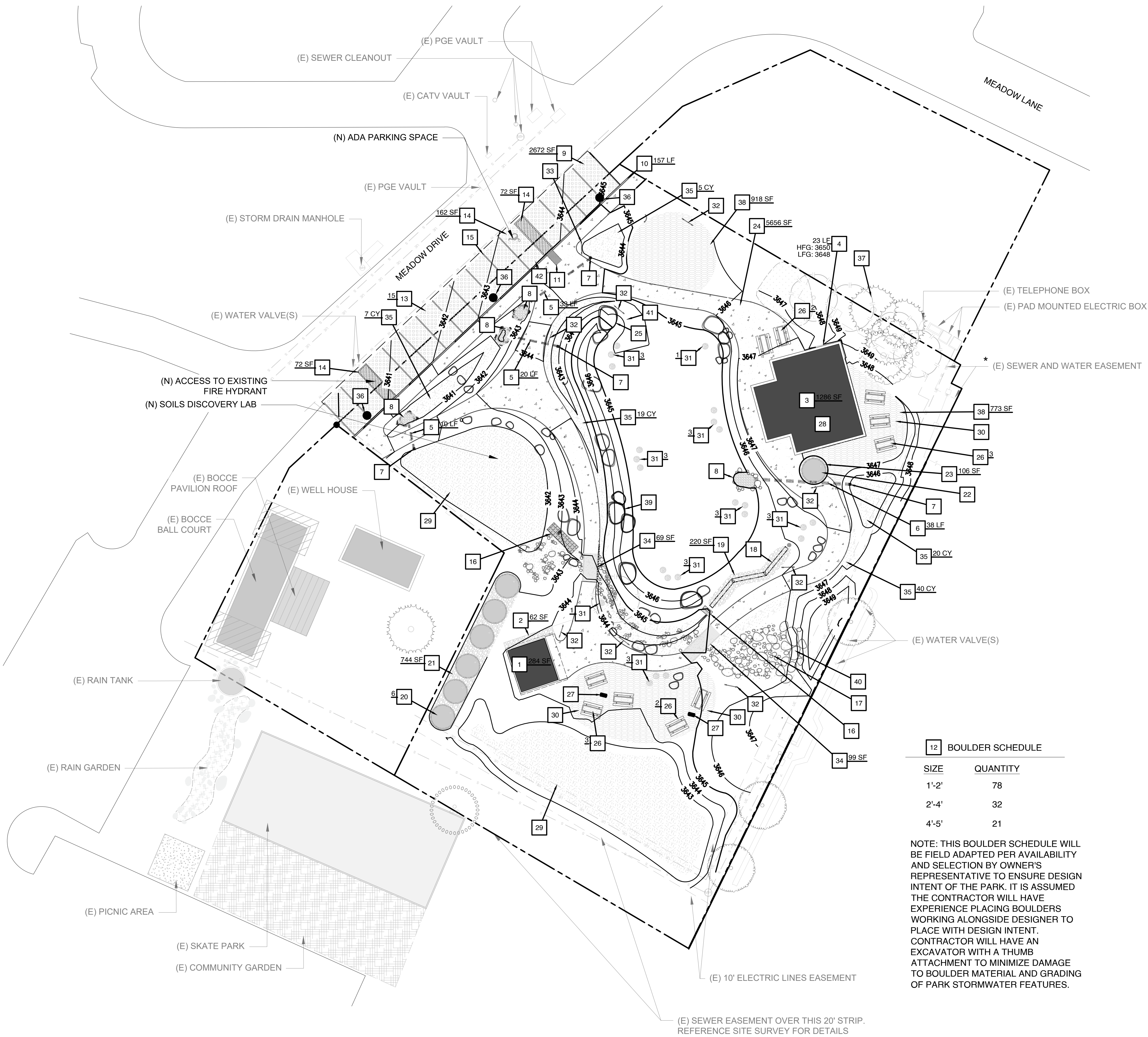
REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

DESIGN BY: ABR
DRAWN BY: JS, MS
REVIEW BY: RH, NS, JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

GRADING AND DRAINAGE DETAILS

L2.4



GENERAL NOTES

- A. ALL EXISTING ACTIVE UTILITIES WORK SHALL BE AVOIDED AND PROTECTED WHEN NECESSARY THROUGHOUT CONSTRUCTION.
- B. 811 - KNOW WHAT'S BELOW - CALL BEFORE YOU DIG
- C. ALL PATHWAYS SHALL BE A MINIMUM OF 48" IN WIDTH TO COMPLY WITH CALIFORNIA ADA REQUIREMENTS.
- D. TOPOGRAPHIC DATA SHOWN IS BASED ON A SURVEY CONDUCTED BY DAVID H. RAGLAND ENGINEERING AND LAND SURVEYING IN MAY 2022. THE ELEVATIONS SHOWN ON THIS SHEET ARE REFERENCED TO AN ELLIPSOID GPS OBSERVATION. THE CONVERSION FROM THIS DATUM TO NAVD88 IS -4 FT AT TWAIN HARTE MEADOWS PARK.



SHEET NOTES		
* 1	SEE PUBLIC RESTROOM COMPANY PLANS FOR RESTROOM PAD DETAILS	284 SF
* 2	GRAVEL ACCESS WALKWAY FOR RESTROOM	62 SF
* 3	PROPOSED PAVILION (SEE STRUCTURAL PLANS)	1286 SF
* 4	PROPOSED RETAINING WALL (SEE DETAIL 1 ON SHEET L2.4)	23 LF
* 5	3-INCH HDPE PIPE	63 LF
* 6	6-INCH HDPE PIPE	38 LF
* 7	CATCH BASIN INLET (SEE DETAIL 4 ON SHEET L2.3)	4 EA
8	PERFORMED SCOUR HOLE (SEE DETAIL 3 ON SHEET L2.3)	4 EA
* 9	TRUEGRID PRO PLUS PERMEABLE PAVER (OR APPROVED EQUAL) PARKING LOT (SEE DETAIL 2 ON SHEET L2.4)	2366 SF
* 10	SINGLE CURB (SEE CALTRANS STANDARD PLAN A87A, TYPE B1-6)	157 LF
* 11	ADA CURB RAMP (SEE CALTRANS STANDARD PLAN A88A, CASE C)	1 EA
* 12	BOULDER SCHEDULE	15 EA
* 13	PARKING SPOTS (18 FT X 9 FT)	15 EA
* 14	TRUEGRID PERMEABLE DECK OR APPROVED EQUAL*	306 SF
* 15	TRUEGRID SNOWSPOT PAVING MARKERS (OR APPROVED EQUAL*)	
16	TANK-3 INSTALLATION (SEE DETAIL 12 ON SHEET L6.5)	
17	WATER PLAY DISCOVERY LAB (SEE SHEET L8.1)	
18	WOODEN FLUME (SEE SHEET L6.6)	
19	GRAVEL OR WALKABLE MULCH BASE FOR WOODEN FLUME	220 SF
* 20	POLY RAINWATER HARVESTING TANKS (TANK-1)	6 EA
* 21	GRAVEL PAD FOR RAIN TANK FARM (SEE DETAIL 10 ON SHEET L6.4)	744 SF
* 22	CORRUGATED METAL TANK FOR RAINWATER HARVESTING DISCOVERY LAB (TANK-2)*	1 EA
* 23	GRAVEL PAD FOR RAINWATER HARVESTING DISCOVERY LAB (SEE DETAIL 10 ON SHEET L6.4)	106 SF
* 24	GRANITECRETE (OR APPROVED EQUAL) PERMEABLE PATHWAY (SEE LAYOUT PLAN ON SHEET L3.2 AND DETAIL 4 ON SHEET L3.4)	5656 SF
* 25	PLACE BOULDERS (SEE BOULDER SCHEDULE, DETAIL 2 AND 3 ON SHEET L3.3)	
26	PICNIC TABLE WITH CONCRETE FOOTINGS (SEE SECTION 12 93 00 OF SPECIFICATIONS)	10 EA
27	BARBEQUE WITH CONCRETE FOOTING (SEE SECTION 12 93 00 OF SPECIFICATIONS)	2 EA
28	LARGE BARBEQUE, SCULLERY SINK, AND OUTDOOR KITCHEN ISLAND TO BE INSTALLED IN PAVILION (BY OTHERS)	
29	LANDSCAPED AREA	
30	PICNIC AREA	3 EA
31	STEPPING STONE	23 EA
32	DISCOVERY LAB EDUCATIONAL SIGNAGE	8 EA
33	PARK ENTRANCE SIGN	
* 34	RAISED BOARDWALKS PER USFS STD TRAIL PLAN FOR SAWN TIMBER STRINGER TRAIL BRIDGE SHEETS: STD_962-10-01 TO STD_962-10-04	168 SF
* 35	ROCK MULCH AND COBBLE (SEE SECTION 31 20 00, 2.05D OF SPECIFICATIONS)	91 CY
* 36	HAPCO SOLAR LIGHTS (OR APPROVED EQUAL), DIRECT BURY. SEE ELECTRICAL PLANS AND SPEC SECTION 26 56 00.	3 EA
37	EXISTING VEGETATED AREA (SEE SHEET L1.1)	
38	MULCHED AREA	1691 SF
* 39	BOULDERS IN BIOSWALE (SEE BOULDER SCHEDULE AND DETAIL 3 ON SHEET L3.3)	
* 40	BOULDER OUTCROPPING (STEPPED BOULDERS)	
* 41	MAGIC OF PLANTS AND POLLINATORS DISCOVERY LAB	
* 42	HANDICAP SIGN	1 EA

12 BOULDER SCHEDULE	
SIZE	QUANTITY
1'-2'	78
2'-4'	32
4'-5'	21

NOTE: THIS BOULDER SCHEDULE WILL BE FIELD ADAPTED PER AVAILABILITY AND SELECTION BY OWNER'S REPRESENTATIVE TO ENSURE DESIGN INTENT OF THE PARK. IT IS ASSUMED THE CONTRACTOR WILL HAVE EXPERIENCE PLACING BOULDERS WORKING ALONGSIDE DESIGNER TO PLACE WITH DESIGN INTENT. CONTRACTOR WILL HAVE AN EXCAVATOR WITH A THUMB ATTACHMENT TO MINIMIZE DAMAGE TO BOULDER MATERIAL AND GRADING OF PARK STORMWATER FEATURES.



Twain Harte Meadows Park
22945 Meadow Drive, Twain Harte, CA, 95383

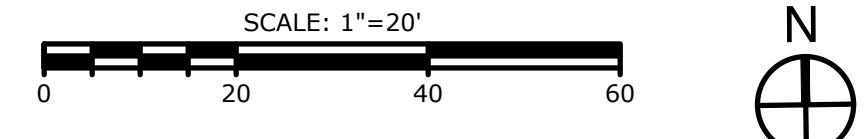
DATE:	PROJECT NO.
REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

DESIGN BY: ABR
DRAWN BY: MS, JS, DR
REVIEW BY: RH, NS, JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

MATERIALS PLAN

L3.1





GENERAL NOTES

- A. ALL EXISTING ACTIVE UTILITIES WORK SHALL BE AVOIDED AND PROTECTED WHEN NECESSARY THROUGHOUT CONSTRUCTION.
- B. 811 - KNOW WHAT'S BELOW - CALL BEFORE YOU DIG
- C. ALL PATHWAYS SHALL BE A MINIMUM OF 48" IN WIDTH TO COMPLY WITH CALIFORNIA ADA REQUIREMENTS.
- D. TOPOGRAPHIC DATA SHOWN IS BASED ON A SURVEY CONDUCTED BY DAVID H. RAGLAND ENGINEERING AND LAND SURVEYING IN MAY 2022. THE ELEVATIONS SHOWN ON THIS SHEET ARE REFERENCED TO AN ELLIPSOID GPS OBSERVATION. THE CONVERSION FROM THIS DATUM TO NAVD88 IS -4 FT AT TWAIN HARTE MEADOWS PARK.



WATERSHED PROGRESSIVE
 WWW.WATERSHEDPROGRESSIVE.COM
 209.732.0018
 CENTRAL SIERRA OFFICE
 18653 MAIN STREET
 GROVELAND, CALIFORNIA 95321
 OJAI OFFICE
 256 N SIGNAL ST., SUITE 6
 OJAI, CALIFORNIA 93023



Line Table						
Line #	Length	Direction	Start Northing	Start Easting	End Northing	End Easting
L33	1.71	N18° 29' 01.75"W	4999.26	10282.21	5000.88	10281.66
L34	4.00	S71° 30' 58.25"W	5000.88	10281.66	4999.62	10277.87
L35	9.40	S18° 29' 01.75"E	4999.62	10277.87	4990.70	10280.85
L36	4.05	S18° 29' 01.75"E	4990.70	10280.85	4986.86	10282.13
L37	5.35	S18° 29' 01.75"E	4986.86	10282.13	4981.79	10283.83
L38	3.41	N71° 30' 58.25"E	4981.79	10283.83	4982.87	10287.06
L49	47.11	S46° 39' 29.95"W	5138.26	10268.76	5105.92	10234.50
L50	25.13	S46° 39' 29.95"W	5105.92	10234.50	5088.67	10216.22
L51	4.12	S46° 39' 29.95"W	5088.67	10216.22	5085.85	10213.23
L52	89.62	N46° 39' 29.95"E	5085.85	10213.23	5141.89	10265.31
L53	13.33	N46° 39' 29.95"E	5141.89	10265.31	5151.04	10275.01
L1	10.62	S46° 39' 29.95"W	5185.54	10318.87	5178.26	10311.14
L2	9.80	S46° 39' 29.95"W	5178.26	10311.14	5171.53	10304.02
L3	17.22	S46° 39' 29.95"W	5171.53	10304.02	5159.71	10291.49
L9	17.88	S79° 41' 20.69"E	5142.65	10322.42	5139.45	10340.01
L10	14.51	S79° 41' 20.69"E	5139.45	10340.01	5136.85	10354.28
L11	7.20	S79° 41' 20.69"E	5136.85	10354.28	5135.56	10361.36
L13	15.00	N74° 52' 41.82"E	5115.80	10383.30	5119.71	10397.78
L17	27.00	S74° 52' 41.97"W	5081.09	10408.22	5074.05	10382.15
L18	2.62	S14° 57' 04.47"E	5074.05	10382.15	5071.52	10382.83

Line Table						
Line #	Length	Direction	Start Northing	Start Easting	End Northing	End Easting
L55	0.52	S59° 25' 55.08"E	5188.46	10313.94	5188.19	10314.39
L56	19.46	S46° 39' 29.95"W	5188.19	10314.39	5174.83	10300.23
L57	16.68	S46° 39' 29.95"W	5174.83	10300.23	5163.39	10288.10
L58	5.00	S46° 39' 29.95"W	5163.39	10288.10	5159.95	10284.47

Curve Table									
Curve #	Length	Radius	Delta	Chord Direction	Chord Length	Start Northing	Start Easting	End Northing	End Easting
C25	20.41	58.54	19.98	S2° 07' 51"E	20.31	5112.59	10356.46	5092.30	10357.22
C26	15.01	58.54	14.69	S19° 27' 45"E	14.96	5092.30	10357.22	5078.19	10362.20
C27	34.95	58.54	34.21	S43° 54' 46"E	34.44	5078.19	10362.20	5053.38	10386.09
C28	11.54	14.14	46.77	S33° 26' 16"E	11.23	5053.38	10386.09	5044.02	10392.27
C29	20.66	14.14	83.73	S31° 48' 41"W	18.89	5044.02	10392.27	5027.98	10382.33
C30	44.40	101.44	25.08	S57° 58' 46"W	44.05	5027.98	10382.33	5004.63	10344.98
C20	6.90	18.50	21.38	N6° 12' 28"W	6.87	5112.59	10356.46	5119.41	10355.72
C21	6.90	18.50	21.38	N27° 35' 20"W	6.87	5119.41	10355.72	5125.50	10352.54
C22	7.09	18.50	21.95	N49° 15' 10"W	7.05	5125.50	10352.54	5130.09	10347.21
C23	8.37	18.50	25.92	N73° 11' 11"W	8.30	5130.09	10347.21	5132.49	10339.27
C47	16.65	228.93	4.17	S13° 07' 32"W	16.65	5022.10	10292.80	5005.89	10289.02
C48	7.97	19.53	23.37	S24° 43' 41"W	7.92	5005.89	10289.02	4998.71	10285.71
C49	4.37	2.00	125.10	N81° 02' 04"W	3.55	4998.71	10285.71	4999.26	10282.21
C50	1.12	2.00	32.09	N55° 28' 14"E	1.11	4982.87	10287.06	4983.49	10287.97
C51	2.18	22.30	5.61	N51° 01' 18"E	2.33	4983.49	10287.97	4984.86	10289.67
C52	21.91	22.30	56.30	N81° 58' 39"E	21.05	4984.86	10289.67	4987.80	10310.50
C53	27.54	35.96	43.88	N87° 50' 22"E	26.88	4987.80	10310.50	4988.81	10337.35
C54	20.91	28.90	41.46	N85° 30' 40"W	20.47	4993.11	10333.17	4994.71	10312.77
C55	5.76	28.90	11.41	N59° 04' 33"W	5.75	4994.71	10312.77	4997.67	10307.84
C56	4.56	24.89	10.50	N46° 27' 19"W	4.56	4997.67	10307.84	5000.81	10304.54

SHEET NOTES

- * 1. SEE ADDITIONAL CURVE TABLES ON SHEET L3.3.
- * 2. PATHWAYS SHOULD BE CONSTRUCTED IN ACCORDANCE WITH ADA STANDARDS.

Twain Harte Meadows Park
 22945 Meadow Drive, Twain Harte, CA, 95383

REVISION		DATE
1 60% TO CSD	05.31.22	
2 60% TO CSD	06.15.22	
3 60% TO SWB	07.28.22	
4 100% TO CSD	12.14.22	
5 100% TO CSD	04.28.23	
6 100% TO CSD	06.07.23	

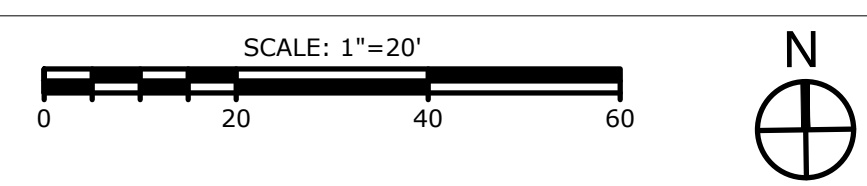
DESIGN BY: ABR
 DRAWN BY: MS, JS, DR
 REVIEW BY: RH, NS, JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

LAYOUT PLAN

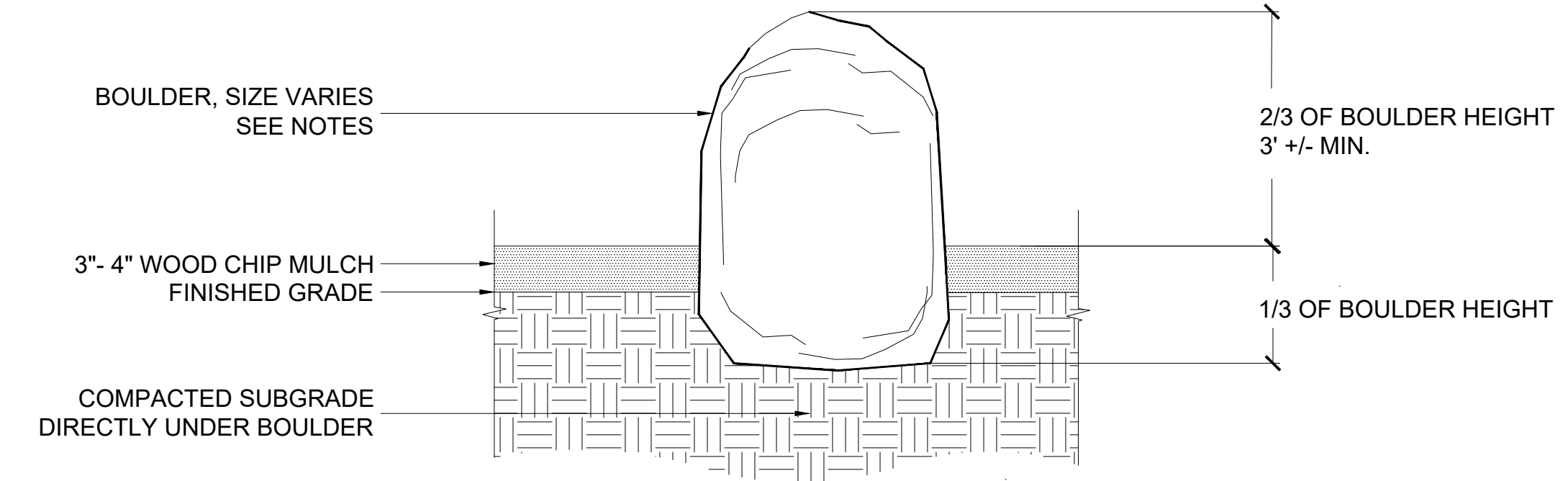
L3.2

100% CD



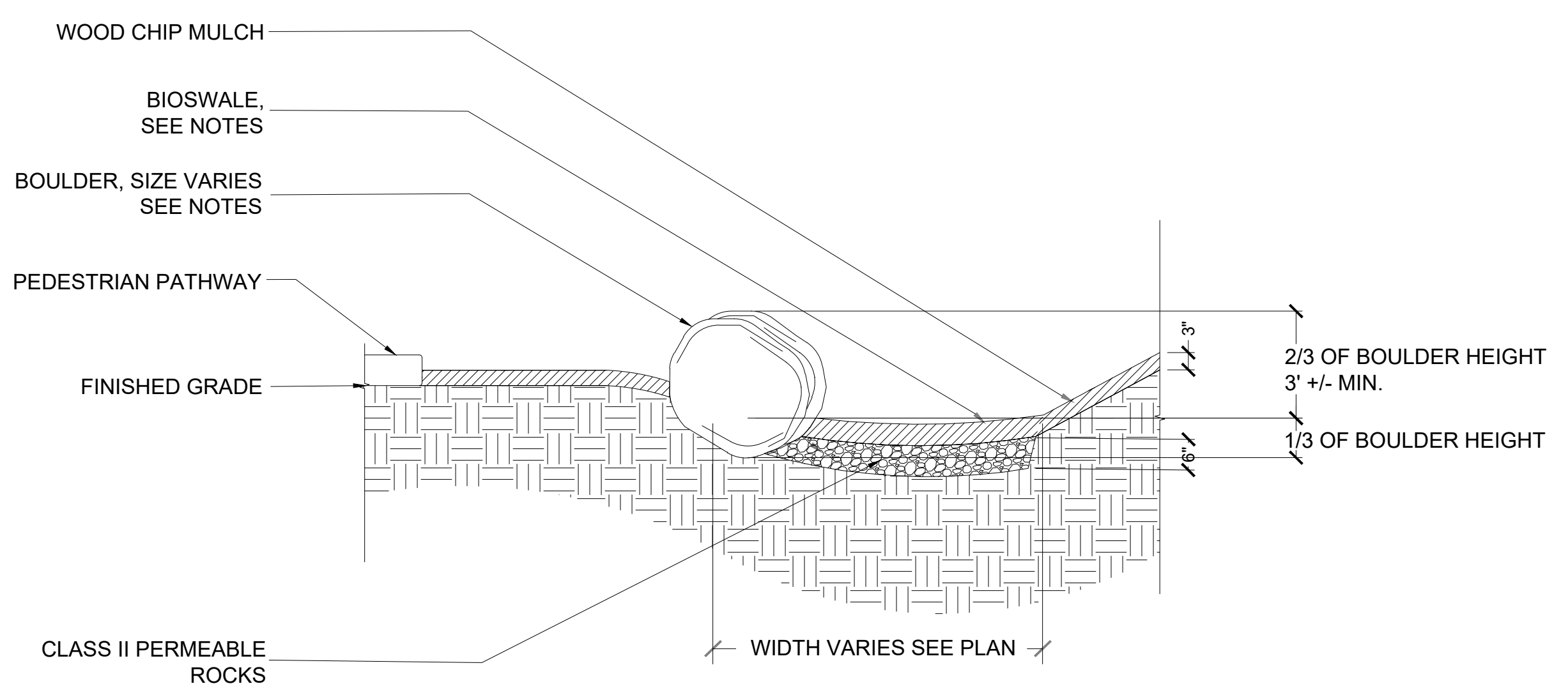
Curve Table									
Curve #	Length	Radius	Delta	Chord Direction	Chord Length	Start Northing	Start Easting	End Northing	End Easting
C57	7.44	24.89	17.12	N32° 38' 38"W	7.41	5000.81	10304.54	5007.05	10300.54
C58	15.04	24.89	34.62	N6° 46' 20"W	14.82	5007.05	10300.54	5021.76	10298.79
C62	19.58	333.67	3.36	N64° 26' 31"E	19.60	5080.83	10216.27	5089.28	10233.93
C63	16.66	333.67	2.86	N61° 19' 50"E	16.69	5089.28	10233.93	5097.27	10248.54
C64	29.44	64.99	25.95	N41° 04' 08"E	29.21	5097.27	10248.54	5119.27	10267.72
C65	17.27	64.99	15.23	N20° 28' 39"E	17.22	5119.27	10267.72	5135.41	10273.74
C66	3.83	3.00	73.10	N23° 41' 17"W	3.57	5135.41	10273.74	5138.68	10272.31
C67	3.83	3.00	73.10	S83° 12' 34"W	3.57	5138.68	10272.31	5138.26	10268.76
C71	8.16	3.00	155.75	S31° 13' 01"E	5.87	5085.85	10213.23	5080.83	10216.27
C32	2.64	3.00	50.51	S21° 24' 21"W	2.60	5159.71	10291.49	5157.33	10290.56
C33	2.64	3.00	50.51	S29° 05' 58"E	2.56	5157.33	10290.56	5155.09	10291.80
C34	11.81	71.25	9.49	S59° 12' 55"E	11.80	5155.09	10291.80	5149.06	10301.94
C35	13.21	71.25	10.62	S69° 16' 25"E	13.20	5149.06	10301.94	5144.39	10314.27
C36	8.33	71.25	6.70	S77° 56' 10"E	8.33	5144.39	10314.27	5142.65	10322.42
C37	30.63	32.80	53.50	S47° 58' 48"E	29.55	5135.56	10361.36	5115.80	10383.30
C38	9.48	5.84	92.91	S86° 30' 34"E	8.47	5071.52	10382.83	5071.00	10391.28
C39	6.39	5.84	62.65	S8° 43' 46"E	6.08	5071.00	10391.28	5065.00	10392.21
C40	0.00	5.84	0.00	S22° 35' 55"W	0.00	5065.00	10392.21	5065.00	10392.21
C42	7.12	9.64	42.30	S38° 57' 57"E	6.96	5064.99	10392.22	5059.58	10396.59
C43	8.02	69.10	6.65	S21° 09' 05"E	8.02	5059.58	10396.59	5052.10	10399.49

Curve Table									
Curve #	Length	Radius	Delta	Chord Direction	Chord Length	Start Northing	Start Easting	End Northing	End Easting
C44	10.67	22.01	27.79	S12° 18' 46"E	10.57	5052.10	10399.49	5041.78	10401.74
C45	28.10	22.01	73.15	S38° 09' 18"W	26.24	5041.78	10401.74	5021.16	10385.54
C46	42.28	91.61	26.44	S60° 12' 02"W	41.92	5021.16	10385.54	5000.33	10349.17
C12	14.84	176.26	4.82	N81° 06' 23"W	14.83	5132.49	10339.27	5134.79	10324.61
C13	7.42	176.26	2.41	N77° 29' 20"W	7.42	5134.79	10324.61	5136.39	10317.37
C14	7.42	176.26	2.41	N75° 04' 38"W	7.42	5136.39	10317.37	5138.30	10310.20
C15	9.19	25.83	20.39	N83° 48' 35"W	9.15	5138.30	10310.20	5139.29	10301.11
C16	16.43	25.83	36.43	S67° 46' 59"W	16.19	5139.29	10301.11	5133.18	10286.16
C17	19.04	25.83	42.23	S28° 27' 19"W	18.61	5133.18	10286.16	5116.82	10277.29
C18	20.26	25.83	44.92	S15° 07' 15"E	19.75	5116.82	10277.29	5097.76	10282.44
C9	18.01	91.24	11.31	S30° 33' 59"E	18.00	5097.76	10282.44	5082.28	10291.59
C10	50.30	91.24	31.59	S9° 07' 00"E	49.66	5082.28	10291.59	5033.24	10299.45
C7	46.84	75.78	35.41	S12° 17' 56"E	46.09	5078.62	10283.65	5033.59	10293.46
C1	14.87	30.19	28.23	N47° 02' 25"W	14.74	5078.62	10283.65	5088.66	10272.87
C2	19.85	30.19	37.67	N79° 59' 17"W	19.51	5088.66	10272.87	5092.05	10253.67
C3	8.44	30.19	16.02	S73° 10' 03"W	8.43	5092.05	10253.67	5089.61	10245.62
C4	31.15	392.00	4.55	S62° 50' 55"W	31.18	5089.61	10245.62	5075.40	10217.90
C5	7.41	392.00	1.08	S60° 01' 49"W	7.41	5075.40	10217.90	5071.69	10211.48



- NOTES:
1. DETAIL APPLIES TO BOULDERS THAT ARE 1' IN DIAMETER OR GREATER.
 2. BOULDERS SHALL BE FREE OF CRUMBLING, SHARP CORNERS, OPEN CRACKS OR HOLES. GRIND SMOOTH FOR SHARP CORNERS. BOULDERS SHALL BE SET FIRMLY INTO THE SOIL SO THAT THEY WILL NOT ROLL, ROTATE, OR SETTLE.
 3. CONTRACTOR MAY USE ON-SITE BOULDERS. IF ANY ADDITIONAL BOULDERS ARE REQUIRED, FINAL BOULDER SELECTION TO BE APPROVED BY OWNER'S REPRESENTATIVE. MARK OR TAG SPECIMEN BOULDERS AT SUPPLY YARD. OWNER'S REPRESENTATIVE WILL VISIT SUPPLY YARD AND INDICATE WHICH BOULDER IS APPROVED.
 4. PLACEMENT OF BOULDERS WILL BE DIRECTED IN THE FILED BY OWNER'S REPRESENTATIVE.
 5. DO NOT COMPACT SOIL IN PLANTING BEDS.

2 BOULDER *
 NOT TO SCALE



- NOTES:
1. DETAIL APPLIES TO BOULDERS THAT ARE 1' IN DIAMETER OR GREATER.
 2. LAYOUT OF DRY CREEK AND BOULDERS TO BE APPROVED BY OWNER'S REPRESENTATIVE IN THE FIELD PRIOR TO INSTALLATION.
 3. INFILTRATION AREAS SHOULD BE EXCAVATED AND CONSTRUCTED WITH AN EXCAVATOR OPERATING OUTSIDE THE AREA FOOTPRINT. EXCAVATED MATERIAL SHOULD BE PLACED AWAY FROM THE OPEN EXCAVATION.
 4. ADJACENT TRADITIONAL CONCRETE CONSTRUCTION TO OCCUR AFTER BASE COURSE PLACEMENT IS COMPLETE TO PROVIDE SUITABLE WORKING SURFACE FOR FORMS.
 5. CONTRACTOR TO PROTECT BASE COURSE BY TEMPORARILY COVERING WITH PLASTIC SHEETING DURING ADJACENT CONVENTIONAL CONCRETE CONSTRUCTION.

3 BOULDERS IN BIOSWALE *
 NOT TO SCALE

Twain Harte Meadows Park
 22945 Meadow Drive, Twain Harte, CA, 95383

DATE: PROJECT NO.

REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

DESIGN BY: ABR
 DRAWN BY: MS, JS, DR
 REVIEW BY: RH, NS, JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

MATERIALS DETAILS

L3.3



WATERSHED PROGRESSIVE
 WWW.WATERSHEDPROGRESSIVE.COM
 209.732.0018
 CENTRAL SIERRA OFFICE
 18653 MAIN STREET
 GROVELAND, CALIFORNIA 95321
 OJAI OFFICE
 256 N SIGNAL ST., SUITE 6
 OJAI, CALIFORNIA 93023



Twain Harte Meadows Park
 22945 Meadow Drive, Twain Harte, CA, 95383

DATE:
PROJECT NO.

REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

DESIGN BY: ABR
 DRAWN BY: MS, JS, DR
 REVIEW BY: RH, NS, JPB

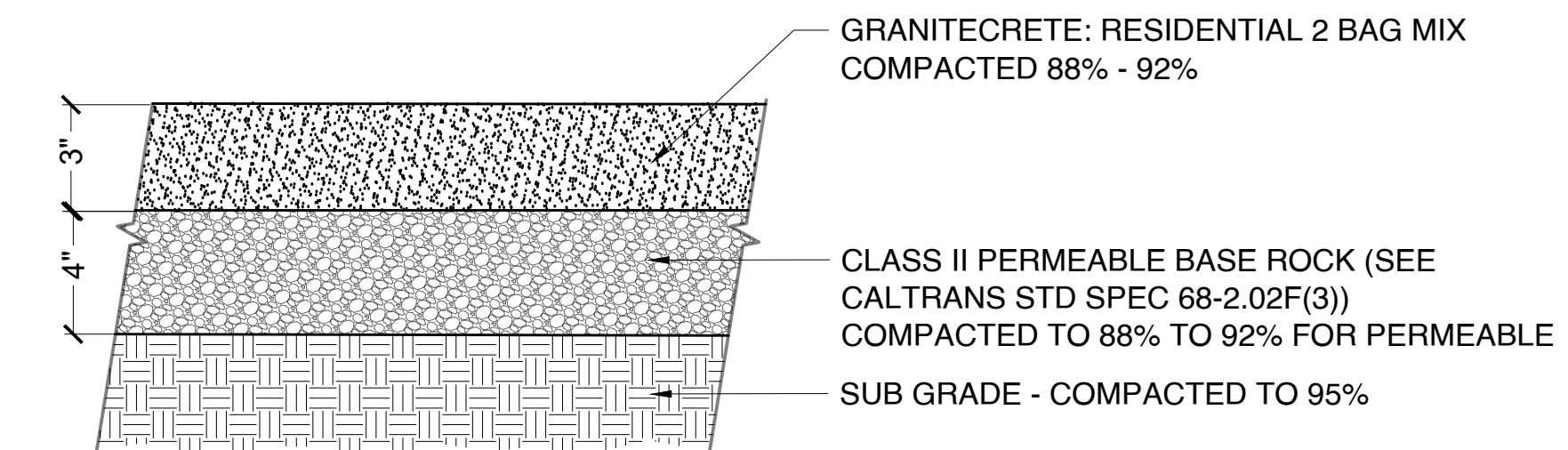
© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

MATERIALS DETAILS

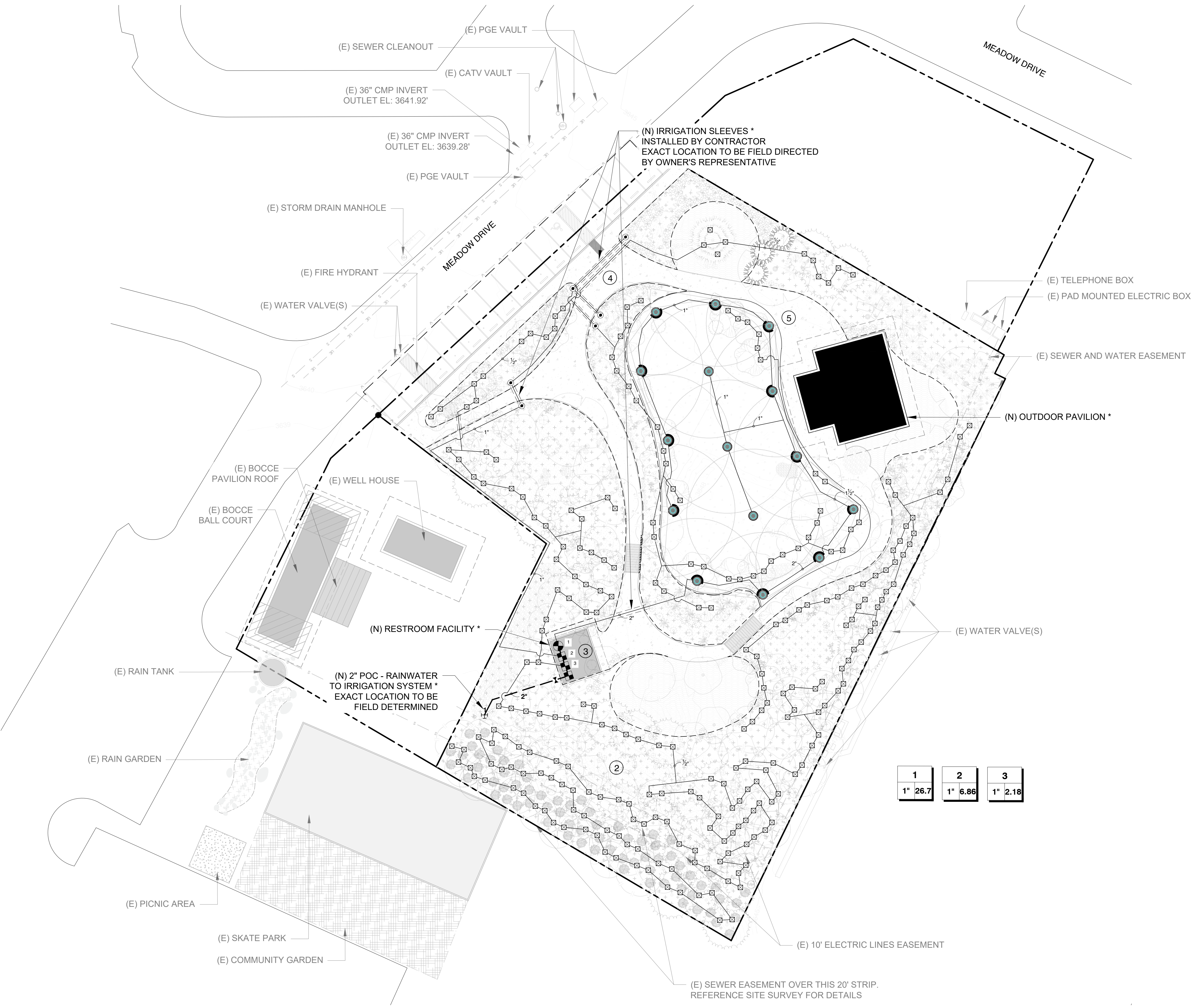
L3.4

100% CD

- NOTES:
 1. SEE CROSS SECTION 1 IN GRANITECRETE SPECIFICATIONS DOCUMENT.



GRANITECRETE PAVING - RESIDENTIAL, PEDESTRIAN



GENERAL NOTES

A. ALL EXISTING ACTIVE UTILITIES WORK SHALL BE AVOIDED AND PROTECTED WHEN NECESSARY THROUGHOUT CONSTRUCTION.

B. 811 - KNOW WHAT'S BELOW - CALL BEFORE YOU DIG

C. TOPOGRAPHIC DATA SHOWN IS BASED ON A SURVEY CONDUCTED BY DAVID H. RAGLAND ENGINEERING AND LAND SURVEYING IN MAY 2022. THE ELEVATIONS SHOWN ON THIS SHEET ARE REFERENCED TO AN ELLIPSOID GPS OBSERVATION. THE CONVERSION FROM THIS DATUM TO NAVD88 IS -4 FT AT TWAIN HARTE MEADOWS PARK.



- LEGEND**
- PROPERTY BOUNDARY
 - 1795- EXISTING CONTOURS
 - █ EXISTING BUILDING
 - █ PROPOSED BUILDING
 - BUILDING OFFSET
 - w - WATER
 - ue - UNDERGROUND ELECTRIC
 - ss - 6" SANITARY SEWER
 - ~ PIPE BREAK / CONTINUATION
 - TREE EMITTERS - VALVE 3
 - ▨ DRIP EMITTER IRRIGATION AREA - VALVE 2
 - ⊗ IRRIGATION VALVES
 - ⊙ PIPE TRANSITION POINT
 - ⊕ POP-UP MP ROTATORS OR APPROVED EQUAL- VALVE 1
 - ▶ SHUT OFF VALVE - IRRIGATION
 - IRRIGATION LATERAL LINE
 - * --- IRRIGATION MAIN LINE
 - * --- SLEEVE UNDER PATHWAYS
 - POC-1 IRRIGATION POINT OF CONNECTION
 - (E) EXISTING
 - (N) NEW

- SHEET NOTES**
- * 1. IRRIGATION SYSTEM LAYOUT AND INSTALLATION TO BE FIELD DIRECTED BY OWNERS REPRESENTATIVE.
 - 2. INSTALLATION OF DRIP EMITTERS BY OTHERS: INSTALL DRIP EMITTERS QUANTITIES AS SPECIFIED IN IRRIGATION SCHEDULE BY PLANT SIZE.
 - 3. INSTALLATION OF IRRIGATION VALVES BY OTHERS: INSTALL JUMBO VALVE BOX IN GROUND. REFERENCE IRRIGATION DETAILS FOR SPECIFICATIONS.
 - * 4. INSTALLATION OF PIPE SLEEVES UNDER PATHWAYS BY CONTRACTOR AS SPECIFIED IN PLAN, SCHEDULE AND SPECIFICATIONS.
 - 5. ADJUST POP-UP SPRAY PATTERNS AFTER INSTALLATION TO MINIMIZE OVER SPRAY ON PATHWAYS BY OTHERS.

1	2	3
1" 26.7	1" 6.86	1" 2.18

Twain Harte Meadows Park
 22945 Meadow Drive, Twain Harte, CA, 95383

DATE: PROJECT NO.

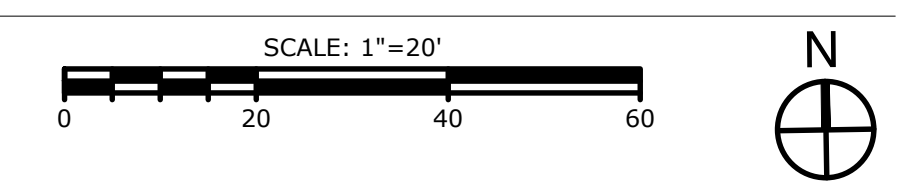
REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

DESIGN BY: MS
 DRAWN BY: MS
 REVIEW BY: JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

IRRIGATION PLAN

L4.1

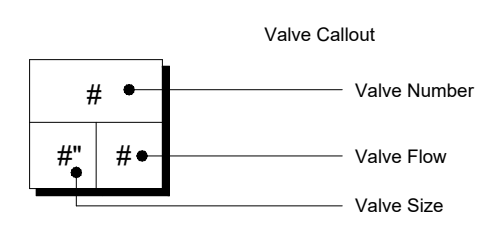


IRRIGATION BID NOTES

- * 1. CONTRACTOR RESPONSIBLE FOR THE INSTALLATION OF UNDERGROUND UTILITIES FOR IRRIGATION CONVEYANCE TO MARKED POINT OF CONNECTIONS AS SHOWN ON IRRIGATION PLAN. INCLUDING BUT NOT LIMITED TO TRENCH WORK, EXCAVATION, PIPE BEDDING, PIPE LAYING AND COORDINATION WITH OWNER'S REPRESENTATIVE.
- * 2. CONTRACTOR RESPONSIBLE FOR FURNISHING AND INSTALLING ALL PERTINENT MATERIALS AS SHOWN AND SPECIFIED ON IRRIGATION SCHEDULE: EQUIPMENT, FITTINGS, APPURTENANCES ASSOCIATED WITH IRRIGATION, AND UNDERGROUND POINT OF CONNECTIONS.
- * 3. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY IRRIGATION EQUIPMENT SUBSTITUTIONS WITH THE APPROVALS BY THE OWNER'S REPRESENTATIVE.
- * 4. CONTRACTOR TO INSTALL AND COORDINATE ALL POINT OF CONNECTIONS STUB-OUTS ABOVE GROUND AS SHOWN ON IRRIGATION PLAN WITH OWNER'S REPRESENTATIVE.
- 5. INSTALLATION OF ABOVE GROUND IRRIGATION EQUIPMENT (EMITTERS, VALVES, VALVE BOXES, ROTORS) BY OTHERS.

IRRIGATION EQUIPMENT SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	HUNTER MP3000 PROS-06-PRS40-CV-R OR APPROVED EQUIVALENT	15	40
	RAIN BIRD XGZ-100-IVM 1" OR APPROVED EQUIVALENT WIDE FLOW IVM DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1IN. BALL VALVE WITH 1IN. PESS IVM SMART VALVE W/ FACTORY INSTALLED IVM-SOL 0.3-20 GPM AND 1IN. PRESSURE REGULATING 40PSI FLOW-INDICATING BASKET FILTER 0.3-20 GPM	3	
	PIPE TRANSITION POINT PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP EMITTER TUBING; INSTALLED IN 6" ROUND VALVE BOXES.	7	
	DRIP EMITTERS FOR TREES (DRIP WORKS) OR APPROVED EQUIVALENT 0.5 GPH EMITTERS (2 ASSIGNED TO EACH 15 GAL. TREE) RECOMMENDED PRESSURE FROM 20 PSI-50 PSI. OPTIONAL DIFFUSER CAP MAY BE UTILIZED FOR HIGHER FLOWS AND CLOG PROTECTION.	263	
	AREA TO RECEIVE DRIP EMITTERS FLOW RATE OF 0.5 GPH. RECOMMENDED PRESSURE FROM 20 PSI-50 PSI. REFERENCE DRIP EMITTER QUANTITIES PER PLANT SIZE BELOW.	24,487 s.f.	
	EMITTER NOTES: 0.5 GPH EMITTERS (2 ASSIGNED TO EACH 1 GAL. PLANT) 0.5 GPH EMITTERS (2 ASSIGNED TO EACH 5 GAL. PLANT)	892	
	RAIN BIRD PEB-PRS-D-NP-HAN 2" OR APPROVED EQUIVALENT 2" INDUSTRIAL VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE, AND PURPLE FLOW HANDLE FOR NON-POTABLE WATER USE.	564	
	POINT OF CONNECTION 2" RAINWATER POINT OF CONNECTION	1	
	IRRIGATION MASTER SHUT-OFF VALVE 2"	1	
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40		
	POLY LATERAL LINE: 1/2" FOR DRIP EMITTERS	2,400 l.f.	
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 3/4"	100 l.f.	
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1"	300 l.f.	
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1 1/4"	20 l.f.	
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1 1/2"	80 l.f.	
*	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 2"	140 l.f.	
*	IRRIGATION MAINLINE: PVC SCHEDULE 40	80 l.f.	
*	PIPE SLEEVE: PVC CLASS 200 SDR 21 SLEEVE SIZE: 2 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE WITHIN.	100 l.f.	



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/EMITTER 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. 2" 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:
 - I. 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 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 EMITTERS.
- * 27. MANUAL SHUT OFF VALVES SHALL BE REQUIRED AND INSTALLED AT EACH POINT OF CONNECTION PRIOR TO IRRIGATION VALVE MANIFOLD.



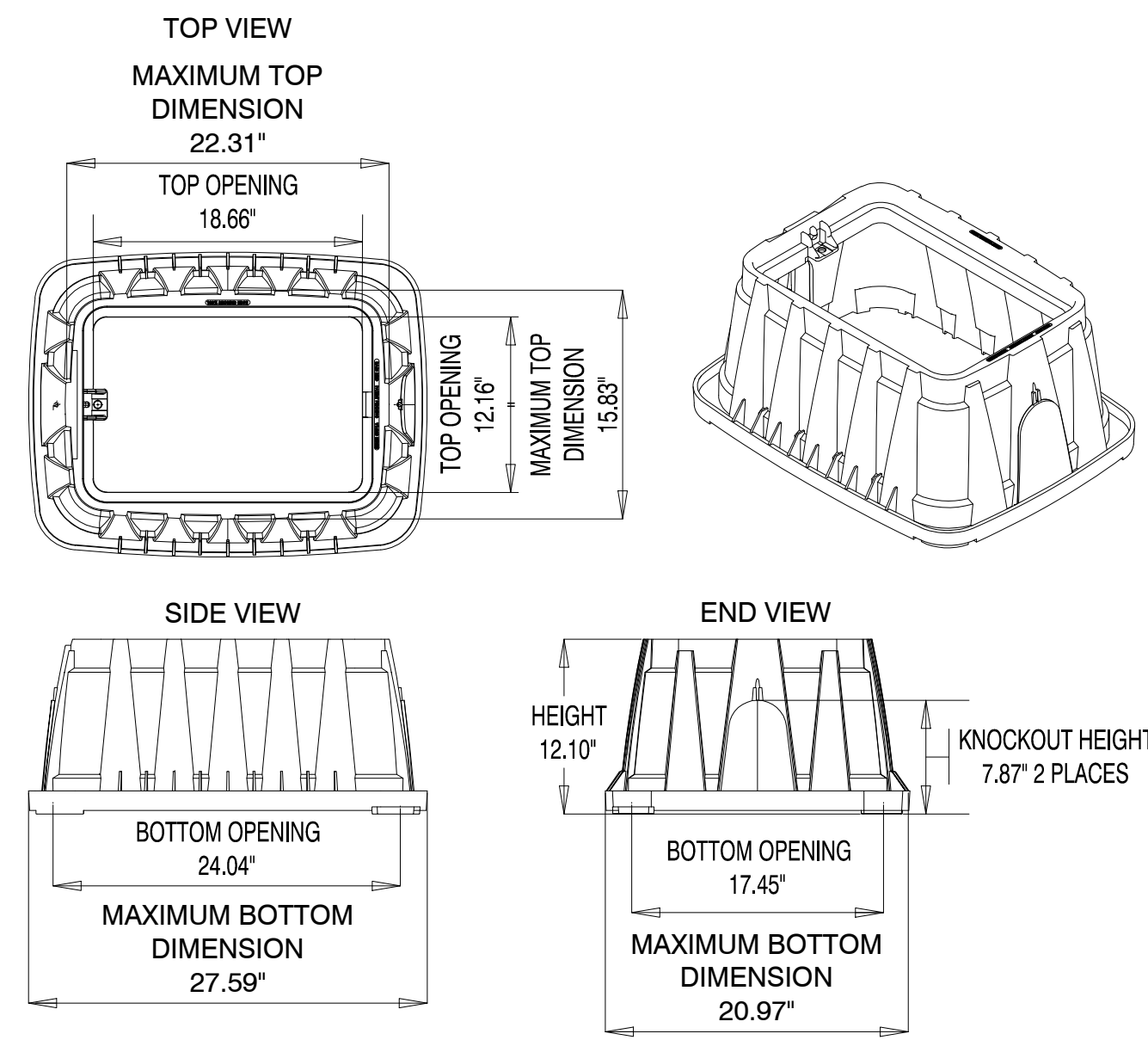
Twain Harte Meadows Park
22945 Meadow Drive, Twain Harte, CA, 95383

DATE:	
PROJECT NO.	
REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23
DESIGN BY: MS	
DRAWN BY: MS	
REVIEW BY: JPB	

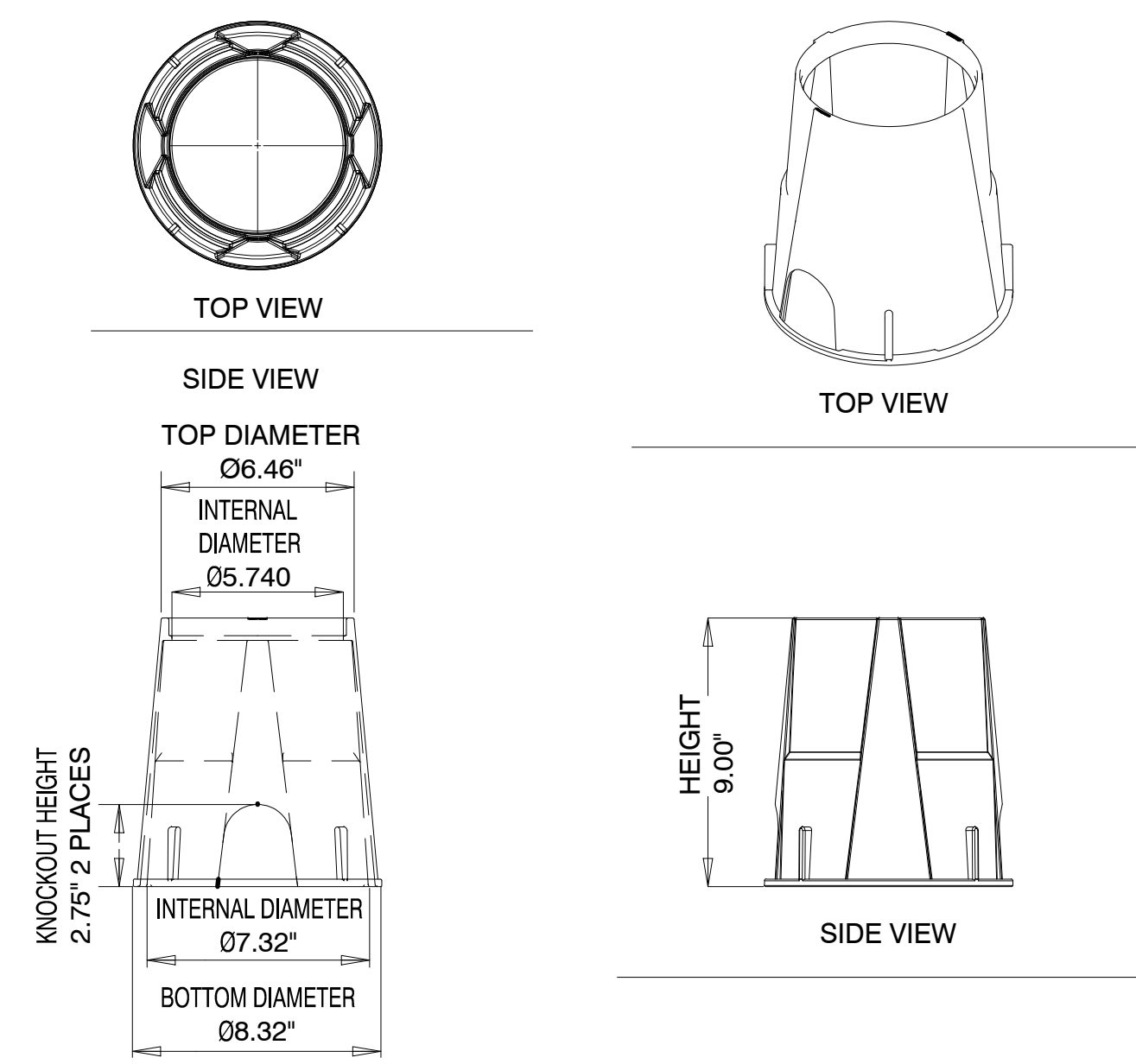
© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

IRRIGATION SCHEDULE NOTES

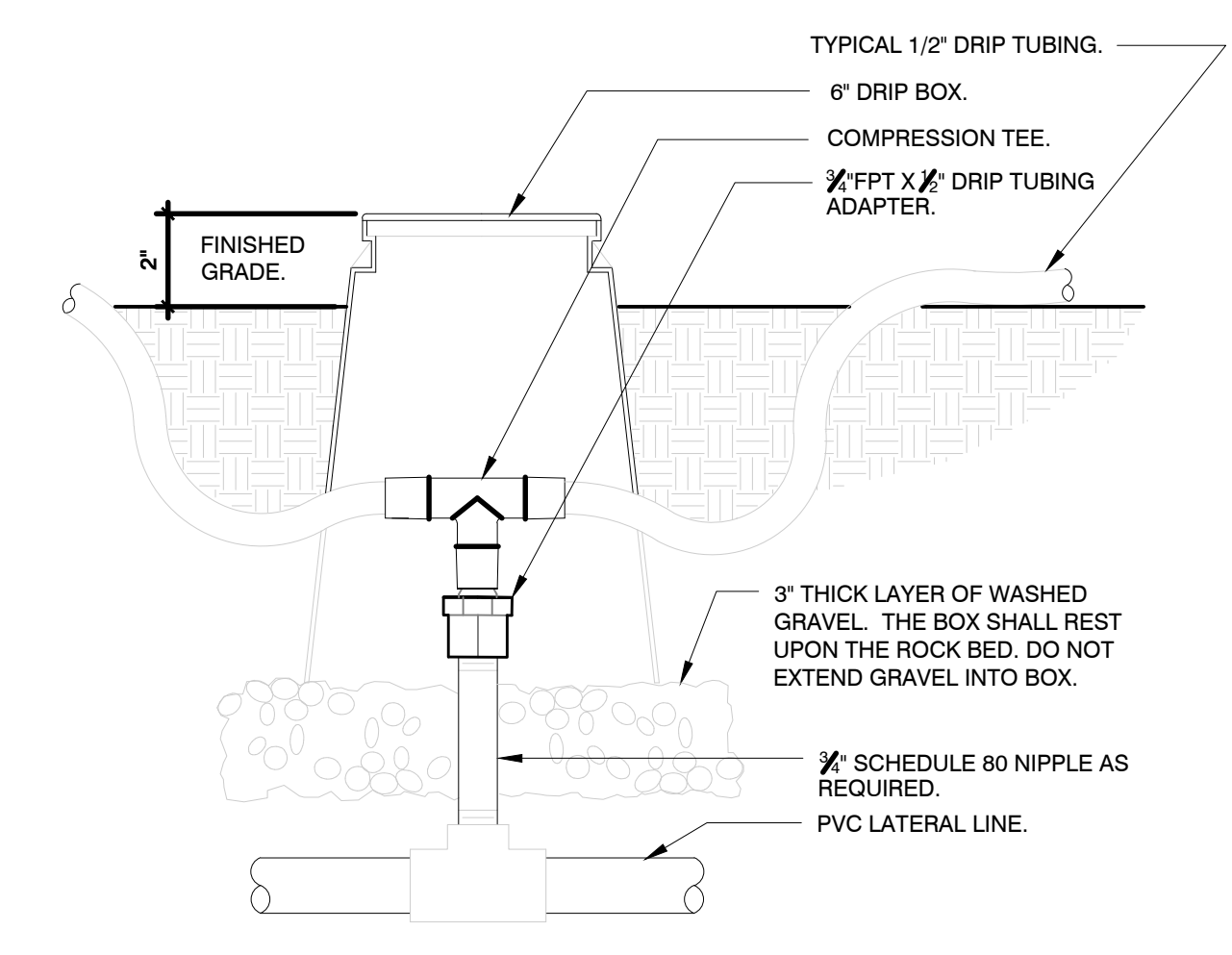
L4.2



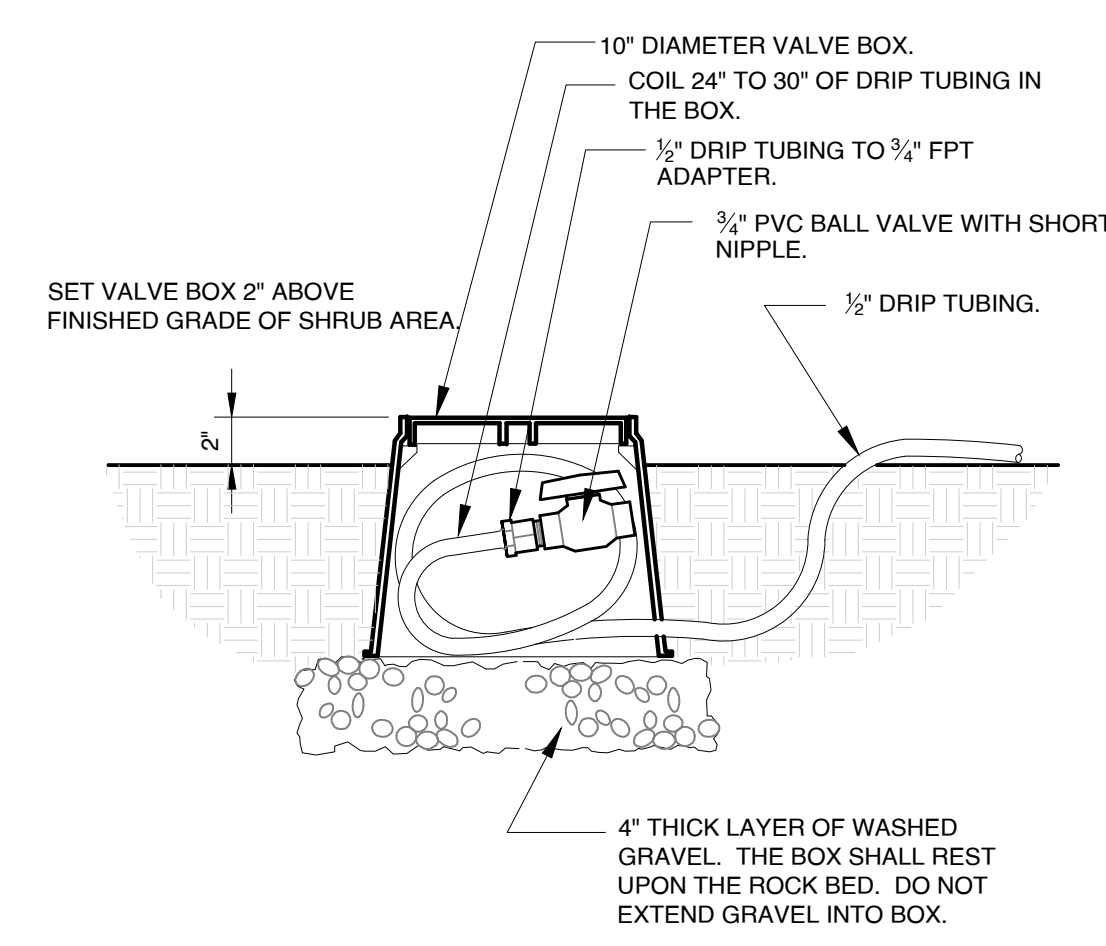
1 RAIN BIRD JUMBO VALVE BOX DIMENSIONS OR APPROVED EQUIVALENT
 Not to Scale FX-IR-RB-VBOX-23



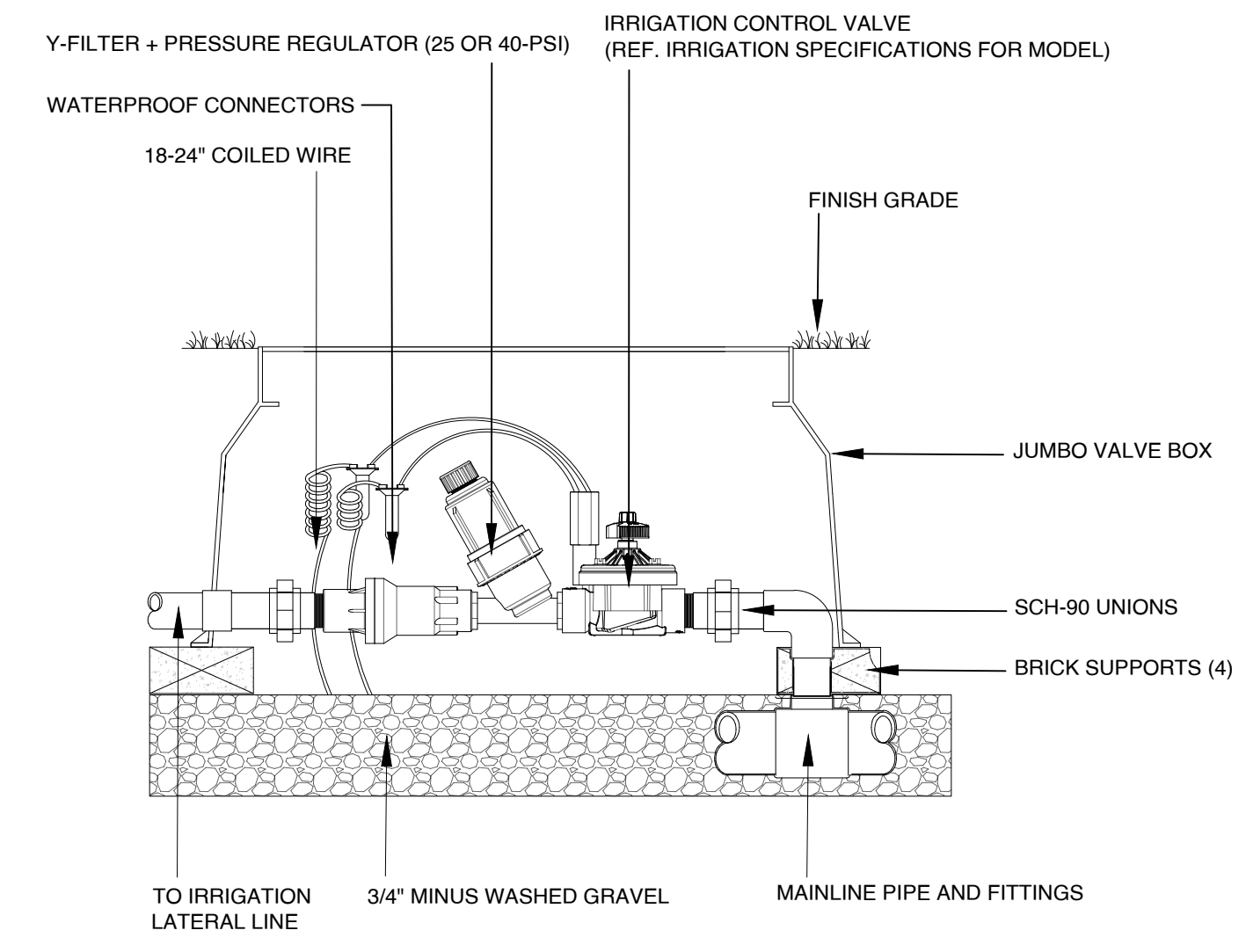
2 RAIN BIRD 6" ROUND VALVE BOX DIMENSIONS OR APPROVED EQUIVALENT
 Not to Scale FX-IR-RB-VBOX-03



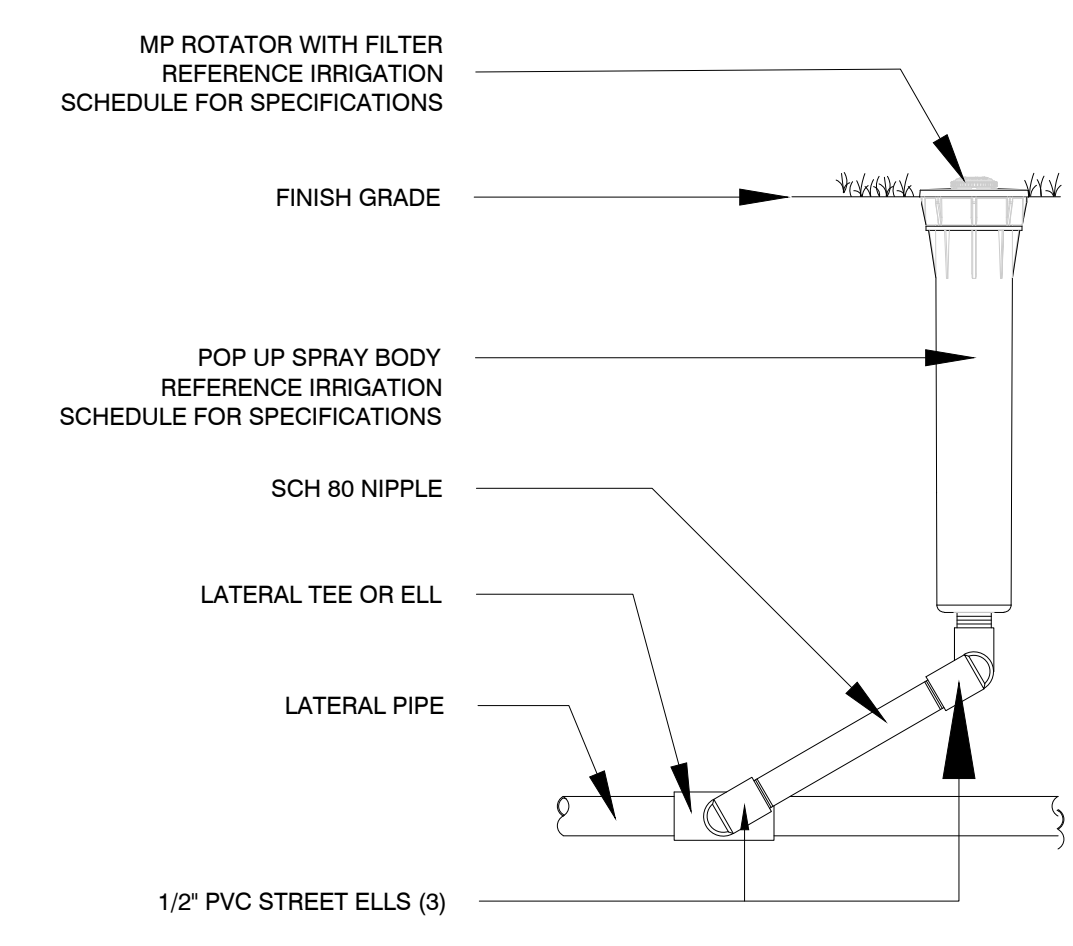
3 ZONE CONTROL
 Not to Scale FX-IR-FX-DRIP-02



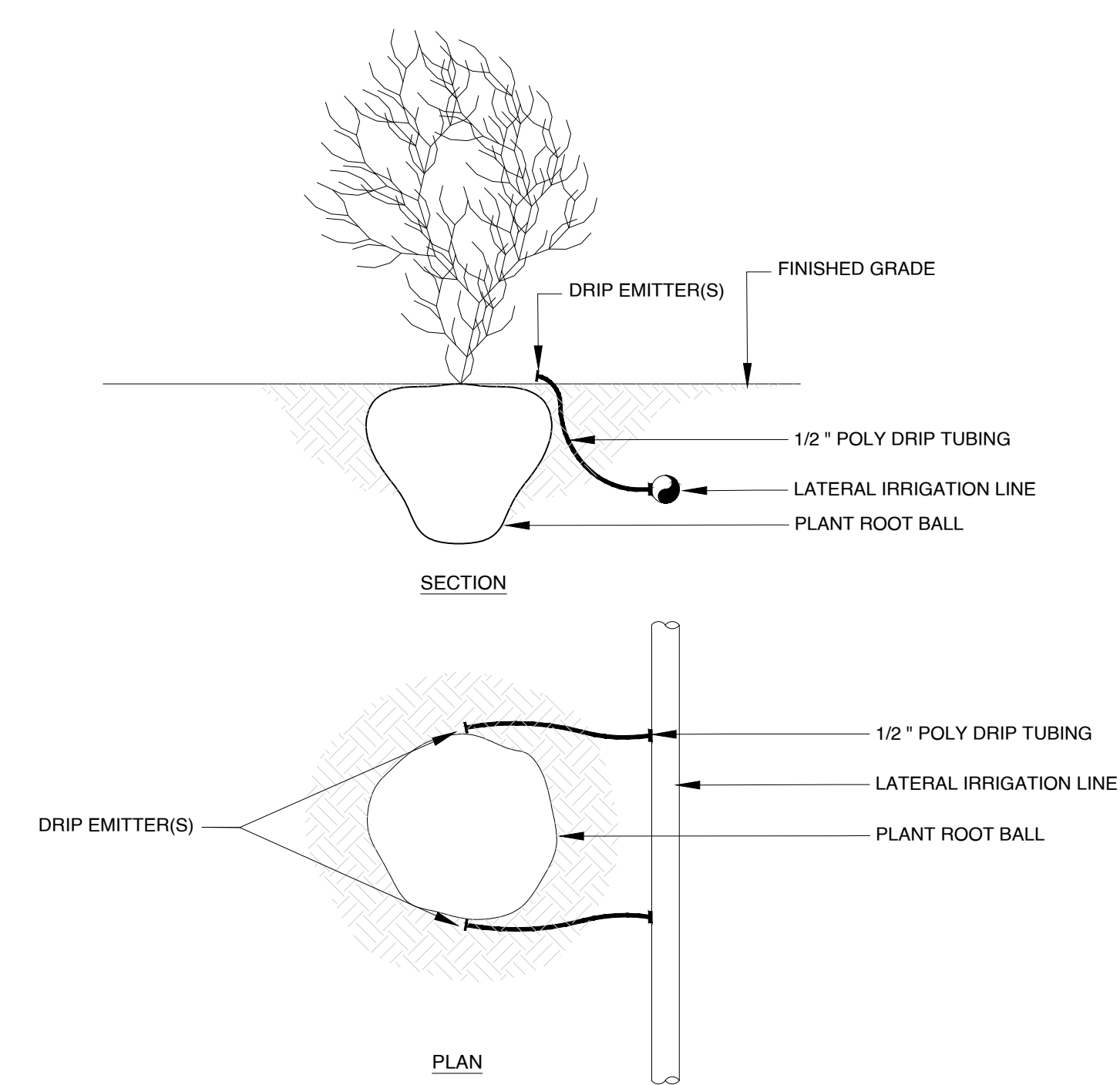
4 DRIP IRRIGATION-EMITTER FLUSH VALVE
 Not to Scale



5 IRRIGATION CONTROL VALVE W/ FILTER + UNIONS
 Not To Scale



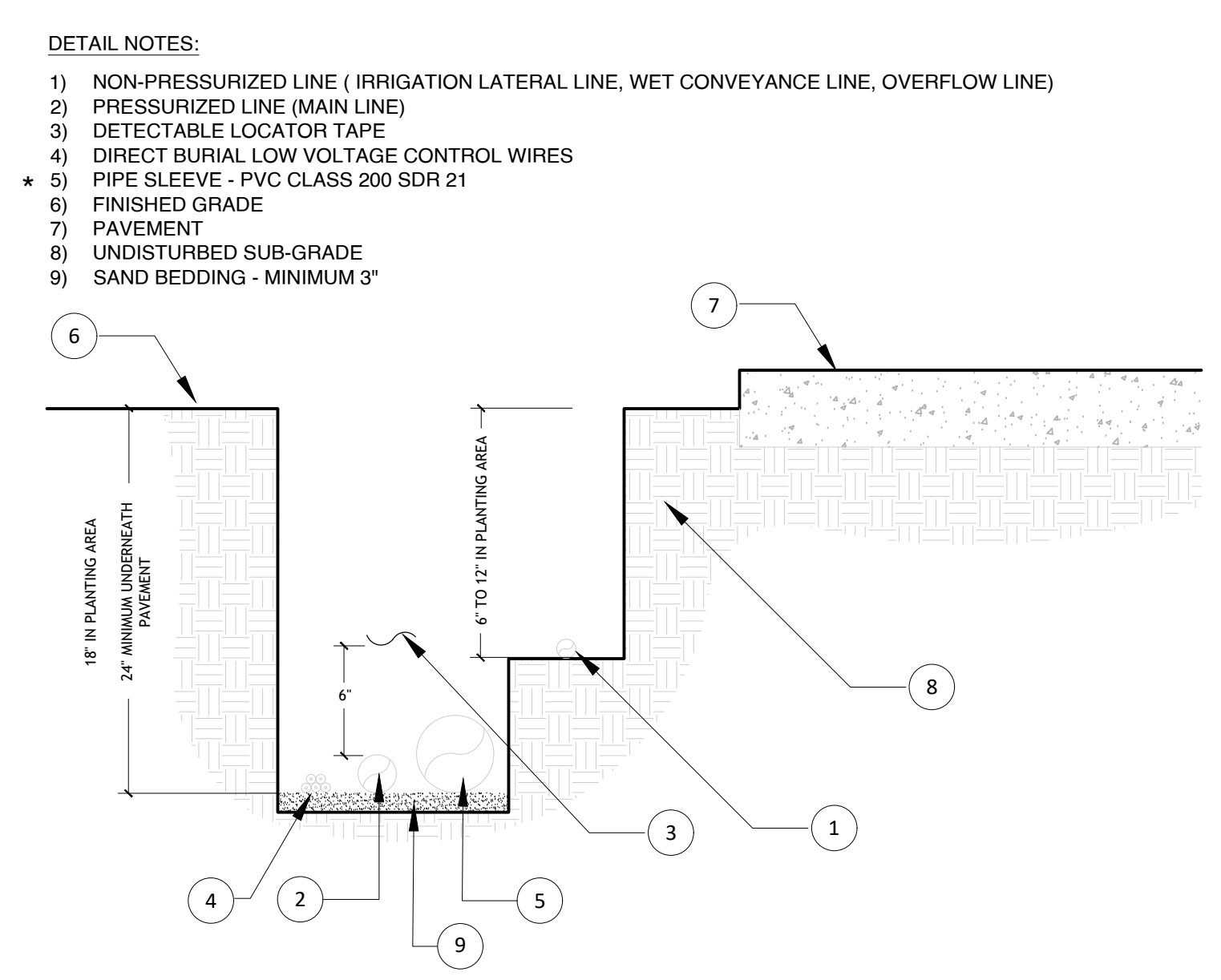
6 MP ROTATOR WITH POP UP SPRAY BODY OR APPROVED EQUIVALENT
 Not To Scale



7 DRIP EMITTER PLACEMENT (TREES, SHRUBS)
 Not to Scale



8 MP ROTATOR - 3000 SERIES OR APPROVED EQUIVALENT
 Not to Scale



9 TRENCHING(TYP.)
 Not to Scale

- DETAIL NOTES:
- NON-PRESSURIZED LINE (IRRIGATION LATERAL LINE, WET CONVEYANCE LINE, OVERFLOW LINE)
 - PRESSURIZED LINE (MAIN LINE)
 - DETECTABLE LOCATOR TAPE
 - DIRECT BURIAL LOW VOLTAGE CONTROL WIRES
 - PIPE SLEEVE - PVC CLASS 200 SDR 21
 - FINISHED GRADE
 - PAVEMENT
 - UNDISTURBED SUB-GRADE
 - SAND BEDDING - MINIMUM 3"

DATE:
 PROJECT NO.

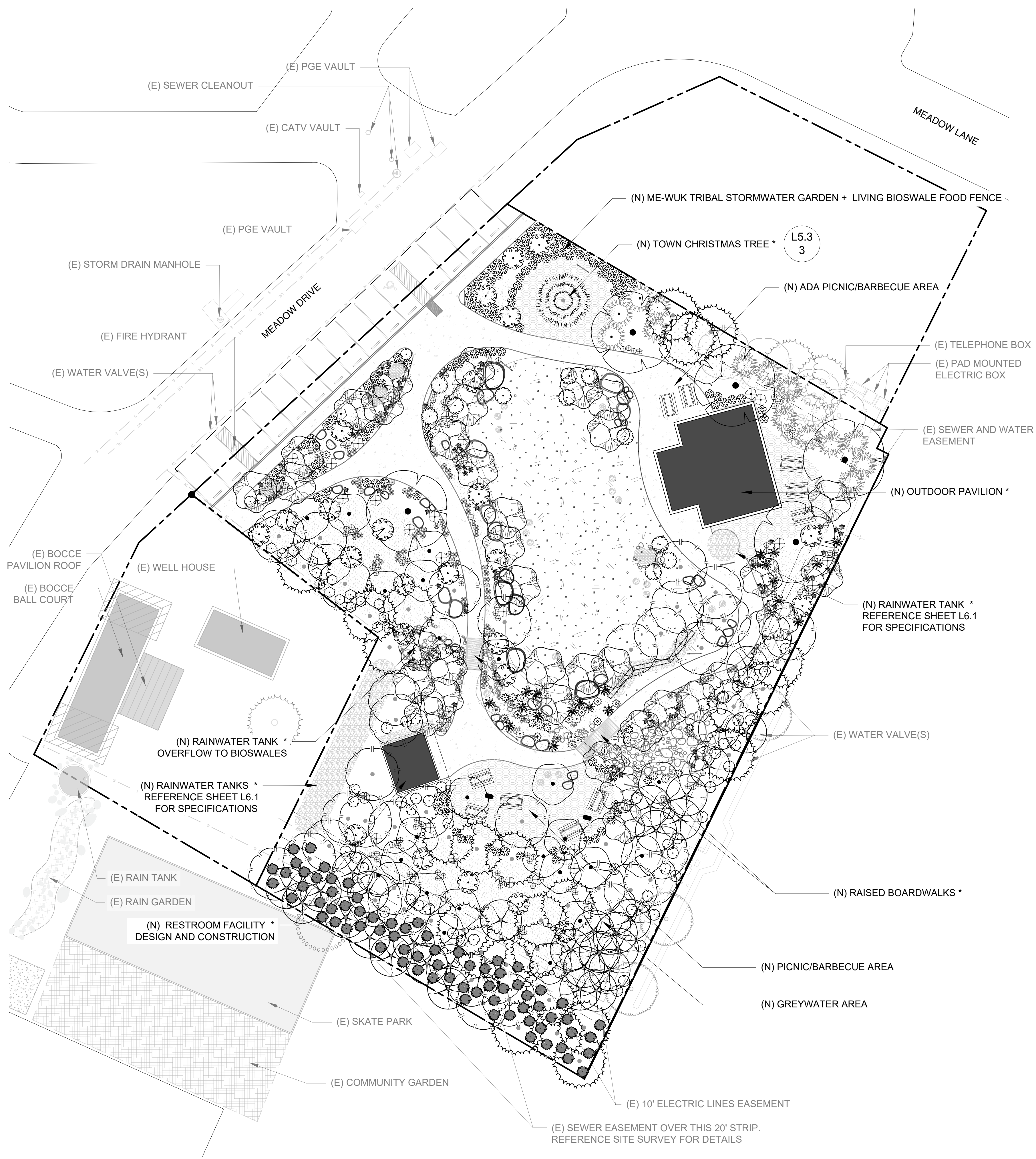
REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

DESIGN BY: MS
 DRAWN BY: MS
 REVIEW BY: JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

IRRIGATION DETAILS

L4.3



PLANT LEGEND

TREES	BOTANICAL / COMMON NAME
EXISTING TREES	
	<i>Calocedrus decurrens</i> Incense Cedar
	<i>Pinus ponderosa</i> Ponderosa Pine
	<i>Quercus agrifolia</i> Coast Live Oak
	<i>Quercus kelloggii</i> California Black Oak
	<i>Salix spp.</i> Salix spp.
PROPOSED TREES	
	* <i>Abies concolor</i> White Fir
	<i>Calocedrus decurrens</i> Incense Cedar
	<i>Pinus lambertiana</i> Sugar Pine
	<i>Pinus ponderosa</i> Ponderosa Pine
	<i>Populus tremuloides</i> Quaking Aspen
SHRUBS	
	Existing Willow and Blackberry Thicket
	<i>Acer macrophyllum</i> Big Leaf Maple
	<i>Berberis aquifolium</i> 'Compacta' Oregon Grape
	<i>Cornus nuttallii</i> Pacific Dogwood
	<i>Corylus cornuta californica</i> Western Hazelnut
	<i>Rhododendron occidentale</i> Western Azalea
	<i>Ribes nevadense</i> Sierra Currant
	<i>Rubus parviflorus</i> Thimbleberry
	<i>Sambucus nigra</i> Black Elderberry
	<i>Symphoricarpos albus</i> Common White Snowberry
PERENNIALS	
	<i>Achillea millefolium</i> Common Yarrow
	<i>Artemisia vulgaris</i> Mugwort
	<i>Asclepias speciosa</i> Showy Milkweed
	<i>Darmera peltata</i> Indian Rhubarb
	<i>Erythranthe cardinalis</i> Scarlet Monkeyflower
	<i>Lepechinia calycina</i> White Pitcher Sage
	<i>Lilium columbianum</i> Tiger Lily
GROUNDCOVERS	
	<i>Ceanothus prostratus</i> Pine Mat
	<i>Sisyrinchium angustifolium</i> Narrowleaf Blue-eyed Grass

GENERAL NOTES

- A. ALL EXISTING ACTIVE UTILITIES WORK SHALL BE AVOIDED AND PROTECTED WHEN NECESSARY THROUGHOUT CONSTRUCTION.
- B. 811 - KNOW WHAT'S BELOW - CALL BEFORE YOU DIG
- D. TOPOGRAPHIC DATA SHOWN IS BASED ON A SURVEY CONDUCTED BY DAVID H. RAGLAND ENGINEERING AND LAND SURVEYING IN MAY 2022. THE ELEVATIONS SHOWN ON THIS SHEET ARE REFERENCED TO AN ELLIPSOID GPS OBSERVATION. THE CONVERSION FROM THIS DATUM TO NAVD88 IS -4 FT AT TWAIN HARTE MEADOWS PARK.

PLANT MIXES

Meadow Plant Mix (Refer to Table Below)

MEADOW PLANT MIX	
GRASS/RUSH/SEDGE	
<i>Carex praegracilis</i>	Clustered Field Sedge
<i>Melica californica</i>	California Melicgrass
<i>Muhlenbergia rigens</i>	Deer Grass
WILDFLOWER SEED MIX (Possible Species)	
PERENNIALS	
<i>Achillea millefolium</i>	Common Yarrow
<i>Asclepias speciosa</i>	Showy Milkweed
<i>Corethrogyne filaginifolia</i>	California Aster
<i>Erysimum capitatum</i>	Sanddune Wallflower
<i>Helenium bigelovii</i>	Bigelow's Sneezeweed
<i>Lepechinia calycina</i>	White Pitcher Sage
<i>Lilium columbianum</i>	Tiger Lily
<i>Mimulus bifidus</i>	Monkey Flower
<i>Monardella villosa</i>	Coyote Mint
<i>Penstemon azureus</i>	Azure Penstemon
<i>Penstemon heterophyllus</i>	Foothill Penstemon
<i>Rudbeckia californica</i>	California Cone Flower
GROUNDCOVERS	
<i>Arctostaphylos Liva ursi</i>	Kinnikinnick
<i>Castilleja exserta</i>	Purple Owl's Clover
<i>Collinsia tinctoria</i>	Sticky Chinese Houses
<i>Helenium bigelovii</i>	Bigelow's Sneezeweed
<i>Heuchra spp.</i>	Coral Bells
<i>Prunella vulgaris</i>	Self Heal
<i>Sisyrinchium angustifolium</i>	Baby Blue Eyes

LEGEND

	PROPERTY BOUNDARY
	SANITARY SEWER
	WATER
	FENCE
	PROPOSED CONTOUR
	EDUCATIONAL SIGNAGE
	WATER VALVE
	MANHOLE
	FIRE HYDRANT
	SEWER CLEAN-OUT
	EXISTING
	NEW
	MULCH
	GRAVEL PAD
	BOULDERS
	MODULAR TANK STORAGE
	RAIN TANK



Twain Harte Meadows Park
22945 Meadow Drive, Twain Harte, CA, 95383

REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

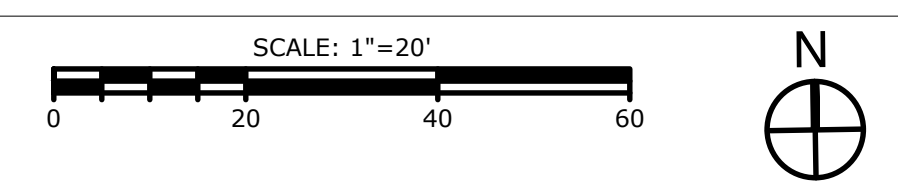
DATE: PROJECT NO.
 DESIGN BY: ABR
 DRAWN BY: MS, JS, DR
 REVIEW BY: RH, NS, JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

PLANTING PLAN

L5.1

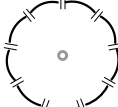
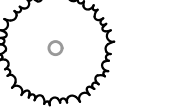
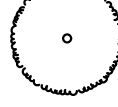

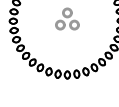
1 PLANTING PLAN




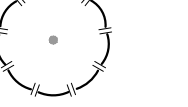



PLANT SCHEDULE

TREES BOTANICAL / COMMON NAME SIZE WATER NEEDS QTY

EXISTING TREES

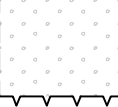
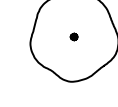
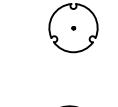





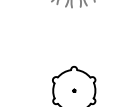

	<i>Calocedrus decurrens</i> Incense Cedar			
	<i>Pinus Ponderosa</i> Ponderosa Pine			
	<i>Quercus agrifolia</i> Coast Live Oak			
	<i>Quercus kelloggii</i> California Black Oak			
	<i>Salix spp.</i> Salix spp.			

PROPOSED TREES

	* <i>Abies concolor</i> White Fir	15 gal.	Medium	1
	<i>Calocedrus decurrens</i> Incense Cedar	15 gal.	Low	30
	<i>Pinus lambertiana</i> Sugar Pine	15 gal.	Low	33
	<i>Pinus ponderosa</i> Ponderosa Pine	15 gal.	Low	26
	<i>Populus tremuloides</i> Quaking Aspen	15 gal.	Medium	36

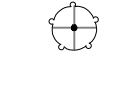






SHRUBS

BOTANICAL / COMMON NAME SIZE WATER NEEDS QTY

	Existing Willow and Blackberry Thicket			
	<i>Acer macrophyllum</i> Big Leaf Maple	5 gal.	Medium	29
	<i>Berberis aquifolium</i> 'Compact' Oregon Grape	5 gal.	Low	59
	<i>Cornus nuttallii</i> Pacific Dogwood	5 gal.	Low	6
	<i>Corylus cornuta californica</i> Western Hazelnut	5 gal.	Low	19
	<i>Rhododendron occidentale</i> Western Azalea	5 gal.	Medium	11
	<i>Ribes nevadense</i> Sierra Currant	5 gal.	Medium	117
	<i>Rubus parviflorus</i> Thimbleberry	5 gal.	Medium	25
	<i>Sambucus nigra</i> Black Elderberry	5 gal.	Low	20
	<i>Symphoricarpos albus</i> Common White Snowberry	5 gal.	Medium	18


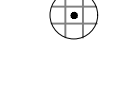
PERENNIALS

BOTANICAL / COMMON NAME SIZE WATER NEEDS QTY

	<i>Achillea millefolium</i> Common Yarrow	1 gal.	Low	124
	<i>Artemisia vulgaris</i> Mugwort	1 gal.	Medium	16
	<i>Asclepias speciosa</i> Showy Milkweed	1 gal.	Low	20
	<i>Darmera peltata</i> Indian Rhubarb	1 gal.	Medium	7
	<i>Erythranthe cardinalis</i> Scarlet Monkeyflower	1 gal.	Medium	19
	<i>Lepechinia calycina</i> White Pitcher Sage	1 gal.	Very Low	39
	<i>Lilium columbianum</i> Tiger Lily	1 gal.	Very Low	70

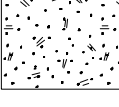
GROUNDCOVERS

BOTANICAL / COMMON NAME SIZE WATER NEEDS QTY

	<i>Ceanothus prostratus</i> Pine Mat	1 gal.	Very Low	72
	<i>Sisyrinchium angustifolium</i> Narrowleaf Blue-eyed Grass	1 gal.	Low	80

PLANT MIXES

GROUNDCOVERS BOTANICAL / COMMON NAME SIZE WATER NEEDS QTY

	Meadow Plant Mix (Refer to Plant Mix Table Below)	Seed	Low	7,658 sf
---	--	------	-----	----------

MEADOW PLANT MIX	
GRASS/RUSH/SEDGE	
<i>Carex praegracilis</i>	Clustered Field Sedge
<i>Melica californica</i>	California Melicgrass
<i>Muhlenbergia rigens</i>	Deer Grass
WILDFLOWER SEED MIX (Possible Species)	
PERENNIALS	
<i>Achillea millefolium</i>	Common Yarrow
<i>Asclepias speciosa</i>	Showy Milkweed
<i>Corethrogyne filaginifolia</i>	California Aster
<i>Erysimum capitatum</i>	Sanddune Wallflower
<i>Helenium bigelovii</i>	Bigelow's Sneezeweed
<i>Lepechinia calycina</i>	White Pitcher Sage
<i>Lilium columbianum</i>	Tiger Lily
<i>Mimulus bifidus</i>	Monkey Flower
<i>Monardella villosa</i>	Coyote Mint
<i>Penstemon azureus</i>	Azure Penstemon
<i>Penstemon heterophyllus</i>	Foothill Penstemon
<i>Rudbeckia californica</i>	California Cone Flower
GROUNDCOVERS	
<i>Arctostaphylos Uva ursi</i>	Kinnikinnick
<i>Castilleja exserta</i>	Purple Owl's Clover
<i>Collinsia tinctoria</i>	Sticky Chinese Houses
<i>Helenium bigelovii</i>	Bigelow's Sneezeweed
<i>Heuchra spp.</i>	Coral Bells
<i>Prunella vulgaris</i>	Self Heal
<i>Sisyrinchium angustifolium</i>	Baby Blue Eyes



Twain Harte Meadows Park
 22945 Meadow Drive, Twain Harte, CA, 95383

DATE:	
PROJECT NO.	
REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23
DESIGN BY:	ABR
DRAWN BY:	MS, JS, DR
REVIEW BY:	RH, NS, JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

PLANT SCHEDULE

L5.2

NOTES:

SITE PREPARATION

- * 1. 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 THE OWNERS REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
- * 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.

SOIL PREPARATION

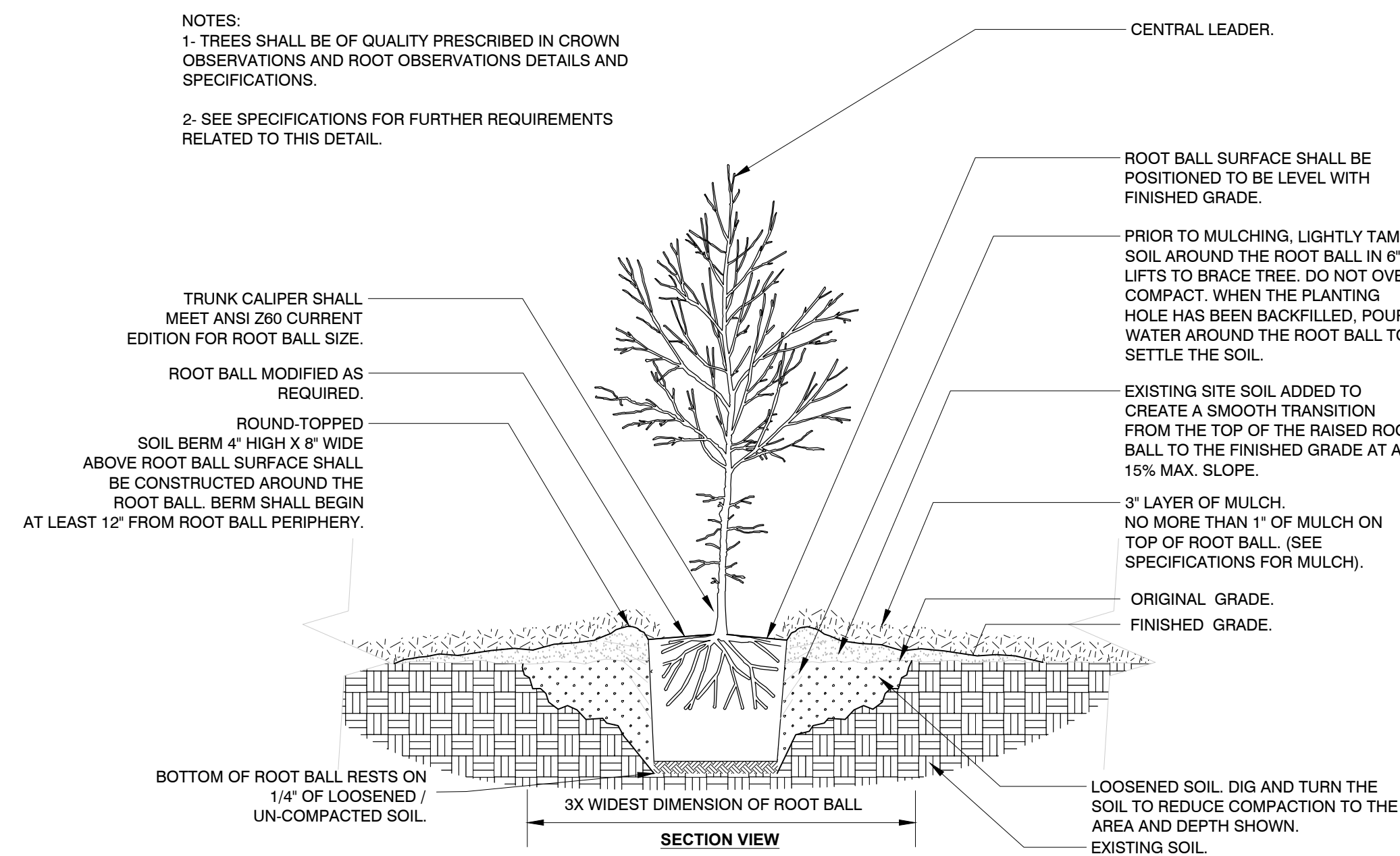
- 4. PRIOR TO STARTING CONSTRUCTION WORK, CONTRACTOR SHALL TAKE SOIL SAMPLES WHERE DIFFERENT SOIL TYPES ARE ENCOUNTERED ON THE PROJECT SITE. SOIL SHALL BE ANALYZED BY AN APPROVED COMMERCIAL SOIL TESTING LABORATORY (TRI-C ENTERPRISES, 1-800-392-3311, OR FRUIT GROWERS LABORATORY, 805-392-2000), OR EQUAL, 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 OWNERS REPRESENTATIVE 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.
- * 5. REMOVE ROCKS LARGER THAN 3" FROM PLANTING AREAS.
- * 6. 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

- * 9. THE CONTRACTOR SHALL ALLOW FOR THE ADDITION OF SPECIFIED QUANTITIES OF SOIL AMENDMENTS AND CONDITIONERS IN SOIL PREPARATION AND FINISH GRADING.
- 10. THE OWNERS REPRESENTATIVE 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 THE OWNERS REPRESENTATIVE PRIOR TO PLANT INSTALLATION.
- * 15. ALL SUBSTITUTIONS SHALL BE REVIEWED AND APPROVED BY THE OWNERS REPRESENTATIVE.
- * 16. SEE DETAILS AND SPECIFICATIONS FOR STAKING METHOD, PLANT PIT DIMENSIONS AND BACKFILL REQUIREMENTS.
- * 17. 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.
- * 18. TREES AND SHRUBS SHALL BE INSTALLED PRIOR TO PLANTING GROUND COVER. ALL TREE LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE OWNERS REPRESENTATIVE.
- 19. THE OWNERS REPRESENTATIVE RESERVES THE RIGHT TO ADJUST THE LOCATION OF PLANT MATERIAL DURING INSTALLATION AS APPROPRIATE TO THE PROJECT.
- * 20. 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 THE OWNERS REPRESENTATIVE.

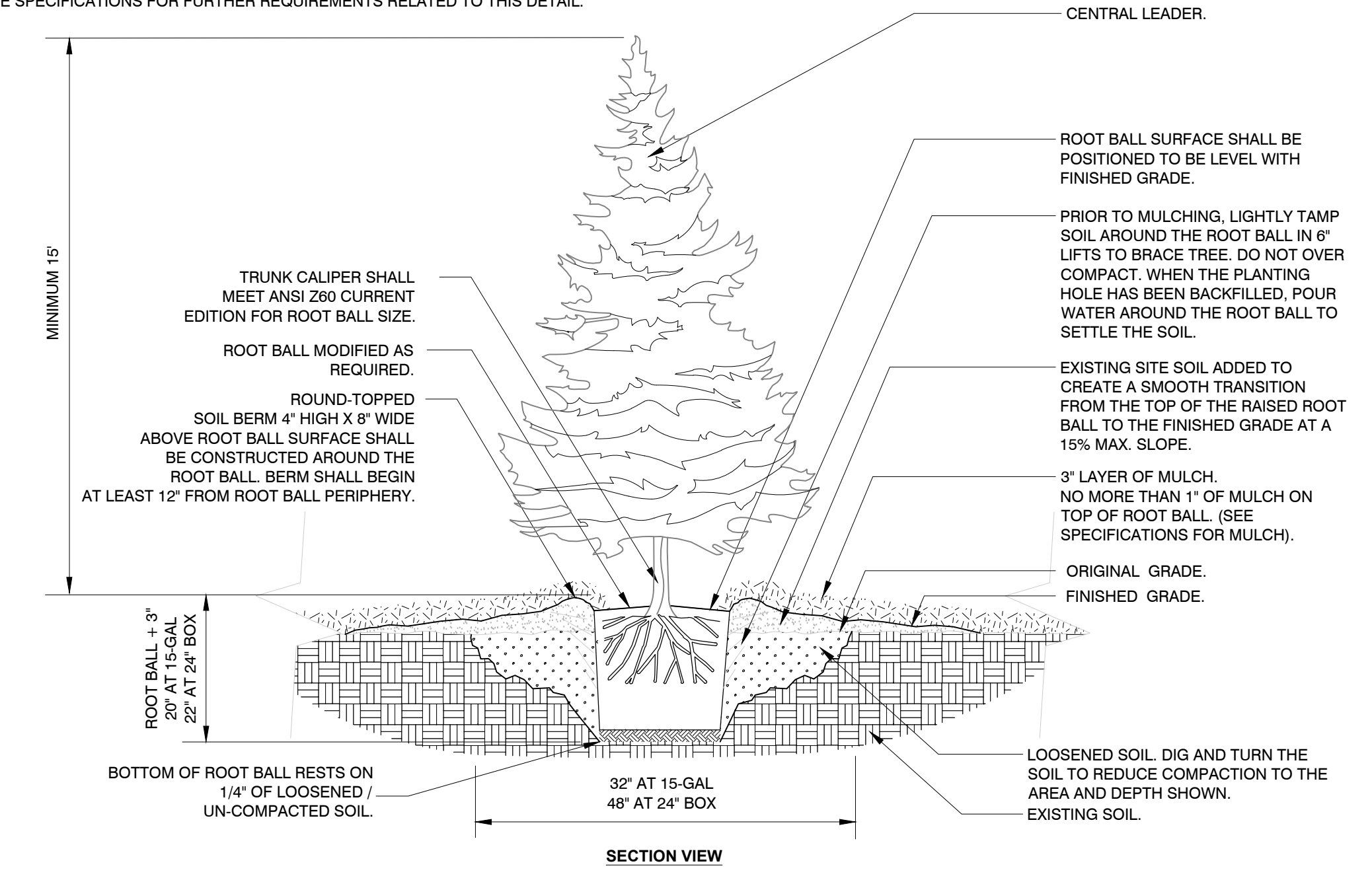


1 TREE PLANTING

Not to Scale

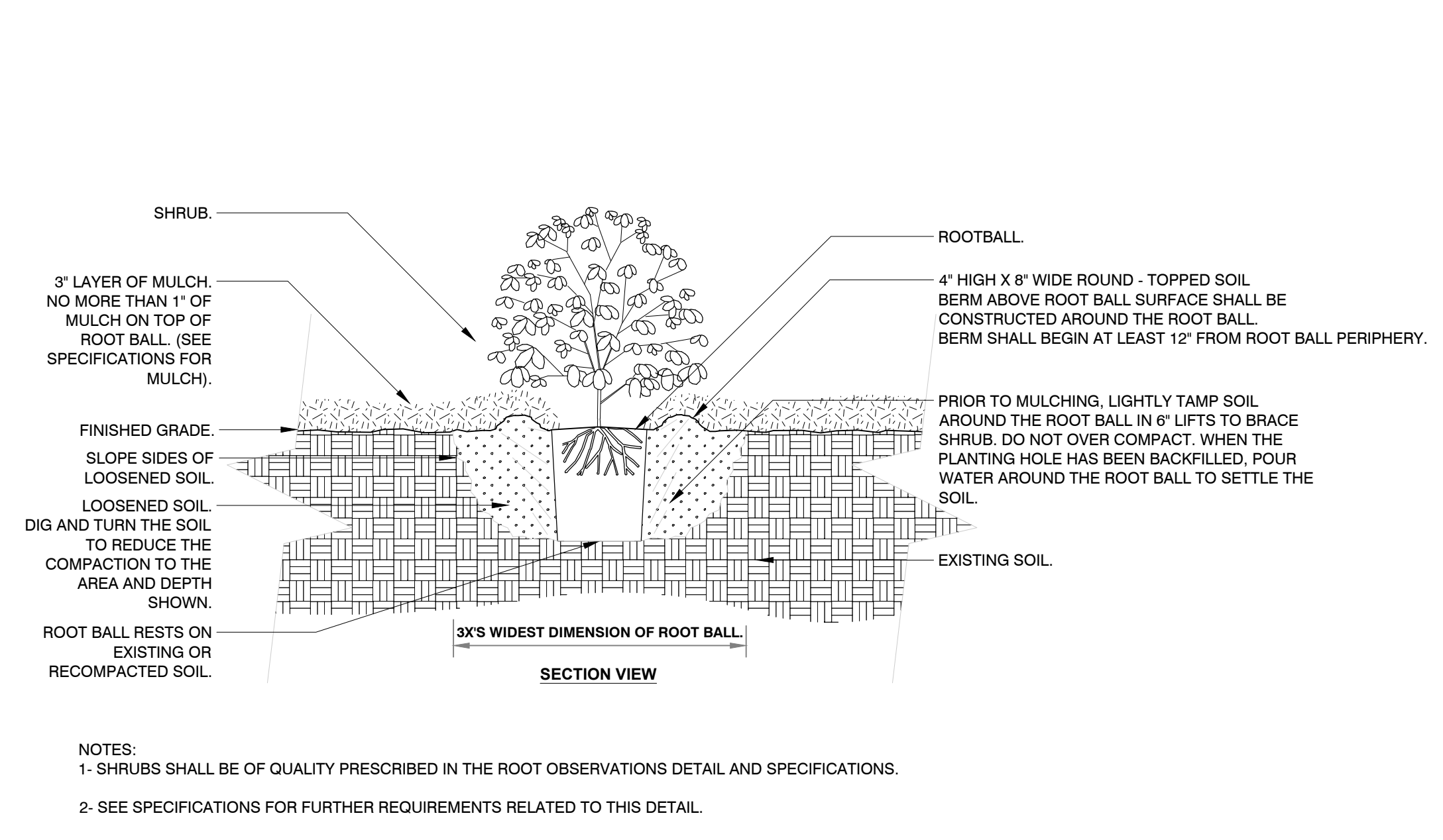
NOTES:

- 1. TREE SHALL BE A MINIMUM OF 15-FEET IN HEIGHT AND TO BE COORDINATED WITH OWNERS REPRESENTATIVE.
- 2. TREE SHALL BE OF QUALITY PRESCRIBED IN CROWN OBSERVATIONS AND ROOT OBSERVATIONS DETAILS AND SPECIFICATIONS.
- 3. IF TREE ARRIVES WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN INTO PLANTING HOLE EXPOSING TOP HALF OF BALL. REMOVE TWINE, ROPE AND BURLAP FROM TOP HALF OF BALL.
- 4. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.



3 TOWN CHRISTMAS TREE PLANTING

Not to Scale



2 SHRUB PLANTING

Not to Scale



WATERSHED PROGRESSIVE
WWW.WATERSHEDPROGRESSIVE.COM
209.732.0018
CENTRAL SIERRA OFFICE
18653 MAIN STREET
GROVELAND, CALIFORNIA 95321
OJAI OFFICE
256 N SIGNAL ST., SUITE 6
OJAI, CALIFORNIA 93023

Twain Harte Meadows Park
22945 Meadow Drive, Twain Harte, CA, 95383

DATE:
PROJECT NO.

REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

DESIGN BY: ABR
DRAWN BY: MS, JS, DR
REVIEW BY: RH, NS, JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

PLANTING DETAILS

L5.3

GENERAL NOTES

- A. ALL EXISTING ACTIVE UTILITIES WORK SHALL BE AVOIDED AND PROTECTED WHEN NECESSARY THROUGHOUT CONSTRUCTION.
- B. 811 - KNOW WHAT'S BELOW - CALL BEFORE YOU DIG
- C. TOPOGRAPHIC DATA SHOWN IS BASED ON A SURVEY CONDUCTED BY DAVID H. RAGLAND ENGINEERING AND LAND SURVEYING IN MAY 2022. THE ELEVATIONS SHOWN ON THIS SHEET ARE REFERENCED TO AN ELLIPSOID GPS OBSERVATION. THE CONVERSION FROM THIS DATUM TO NAVD88 IS -4 FT AT TWAIN HARTE MEADOWS PARK.
- D. NEW COLD WATER, SEWER AND ELECTRICAL UTILITY PIPING TO MEADOWS FACILITIES SHALL BE ROUTED WITHIN TRENCH. ALL TRENCH WORK SHALL BE COORDINATED BY THE GENERAL CONTRACTOR WITH EXCAVATION, GRADING AND SITE DESIGN.

LEGEND

	PROPERTY BOUNDARY		MODULAR TANK STORAGE
	EXISTING CONTOURS		BALL VALVE
	EXISTING BUILDING		3-WAY DIVERTER VALVE
	PROPOSED BUILDING		PIPE BREAK / CONTINUATION
	BUILDING OFFSET		PUMP
	TRENCH		POINT OF CONNECTION
	RAINWATER CONVEYANCE		CLEANOUT (CO-1)
	DOWNSPOUT		CHECK VALVE
	OVERFLOW CONVEYANCE		MULCH BASIN
	MUNICIPAL WATER LINE		BACKFLOW PREVENTER
	UNDERGROUND ELECTRIC		INTERACTIVE WHEEL
	6" SANITARY SEWER		EXISTING
	GREYWATER CONVEYANCE		NEW
	RAIN TANK		BELOW FINISHED FLOOR (OR TOP OF SLAB ELEVATION)

SHEET NOTES

1. CONTRACTOR TO PROVIDE ABOVE GRADE CAPPED COLD WATER POINT OF CONNECTION WITH SHUT OFF VALVE AND CAPPED SANITARY SEWER POC WITH CLEAN OUT AT 6-FEET OUTSIDE THE BUILDING FOR FUTURE CONNECTION TO OUTDOOR SINK AND BBQ.
2. OTHERS TO PROVIDE FIRST FLUSH ASSEMBLY ON ALL DOWNSPOUTS. (TYP OF 4). COORDINATE WITH CONTRACTOR FOR LOCATIONS TO TIE IN AT UNDERGROUND PIPING. REFER TO SCHEDULES FOR CRITERIA. REFER TO DETAIL 1/L6.3.
3. CONTRACTOR TO PROVIDE NEW 4" SANITARY SEWER POINT OF CONNECTION TO EXISTING SEWER MAIN. EXACT TIE-IN LOCATION, SIZE AND INVERT TO BE FIELD VERIFIED. WHERE NEW PIPE SIZE EXCEEDS EXISTING PIPE SIZE, NOTIFY OWNER'S REPRESENTATIVE. CONFLICTS WITH EXISTING UG UTILITIES SHALL BE FIELD COORDINATED AND AVOIDED.
4. OTHERS TO INSTALL ENTIRETY OF GREYWATER SYSTEM FROM POINT OF CONNECTION AT RESTROOM TO MULCH BASINS. NO SCOPE OF WORK FOR CONTRACTOR INCLUDED. FOLLOW GREYWATER SPECIFICATIONS AND SYSTEM INSTALLATION NOTES ON SHEET L6.2. REFER TO DETAILS OF MULCH BASIN AND SYSTEM CONNECTIONS ON L6.5.
5. CONTRACTOR TO PROVIDE GUTTERS ALONG LOW POINT EDGES OF ROOF. CONTRACTOR TO PROVIDE HOLES FOR DOWNSPOUT CONNECTIONS AT LOCATIONS INDICATED ON PLANS. OTHERS TO CONNECT TO DOWNSPOUTS AND ASSOCIATED FIRST FLUSH ASSEMBLIES. CONTRACTOR TO PROVIDE UNDERGROUND RW PIPING TO SYSTEM. CONTRACTOR TO COORDINATE DOWNSPOUT LOCATION WITH UNDERGROUND PIPING CONSTRUCTION. REFER TO SCHEDULES.
6. OTHERS TO CONSTRUCT AND COORDINATE ENTIRETY OF UNDERGROUND TANK AND FLUME SYSTEM. CONTRACTOR SHALL PROVIDE CAPPED, LABELED STUB OUTS AT INDICATED POC LOCATIONS FOR OTHERS CONNECTION AND INSTALLATION TO SYSTEM.
7. SCOPE OF WORK FOR TANK-2 IS AS FOLLOWS:
 - 7.1. CONTRACTOR SHALL PROVIDE POINTS OF CONNECTION AS INDICATED ON PLANS FOR 1" RW & 1/2" CW CONNECTIONS TO TANK.
 - 7.2. CONTRACTOR TO PROVIDE TANK AND COORDINATE TANK INSTALLATION SCHEDULE WITH OWNER'S REPRESENTATIVE AND MANUFACTURER.
 - 7.3. CONTRACTOR TO COORDINATE ALL TANK PORT LOCATIONS WITH OWNER'S REPRESENTATIVE, LANDSCAPE WATER REUSE CONTRACTOR AND MANUFACTURER PRIOR TO PURCHASE.
 - 7.4. OTHERS TO INSTALL ALL FINAL PIPING TO TANK-2 INCLUDING ENTIRETY OF RW AND OVERFLOW CONVEYANCE PIPING.
8. OTHERS TO PROVIDE FINAL DESIGN AND SPECIFICATIONS FOR OUTDOOR SINK AND BBQ AS COORDINATED WITH CSD. THE BASIS OF DESIGN AND COST ESTIMATE INCLUDES:
 - 8.1. (1) OUTDOOR-RATED STAINLESS STEEL SCULLERY SINK
 - 8.2. (1) OUTDOOR PERMANENT CHARCOAL BBQ WITH COVER
 - 8.3. (1) ABOVE GROUND 20GPM, 40LB CAP. HYDROMECHANICAL GREASE INTERCEPTOR. JAY R SMITH 8120 OR SIMILAR
 - 8.4. FRAMING TO CONCEAL / PROTECT SINK AND INTERCEPTOR
 - 8.5. UTILITY TIE IN'S FOR SEWER/VENT, CW AND ELECTRICAL.

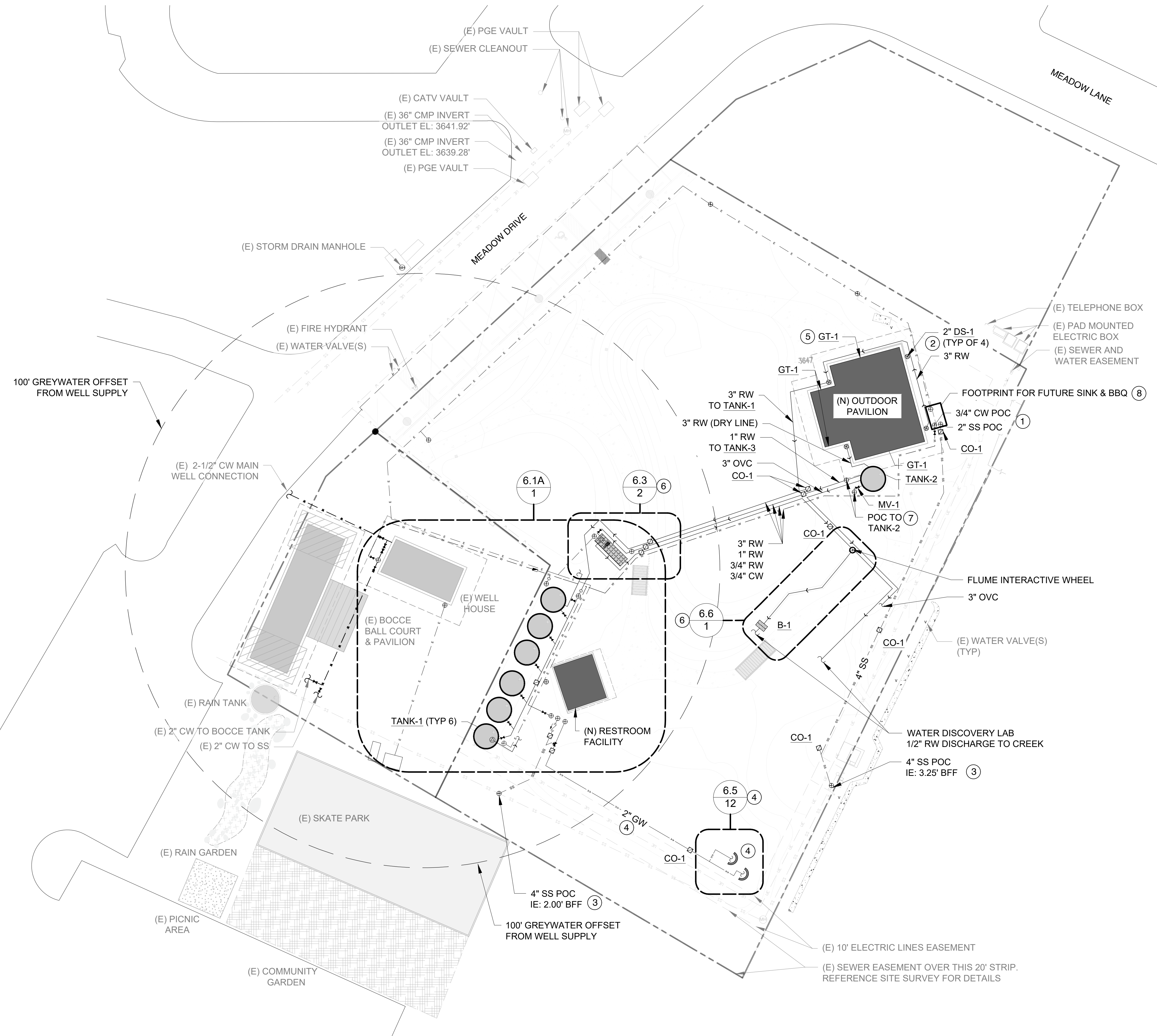
DATE:	PROJECT NO.
REVISION	DATE
1 50% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23
DESIGN BY: SS,MS	
DRAWN BY: MS	
REVIEW BY: JPB	

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

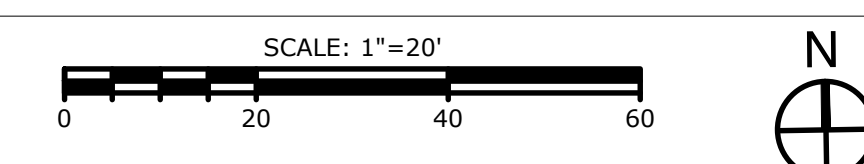
WATER REUSE AND UTILITIES PLAN

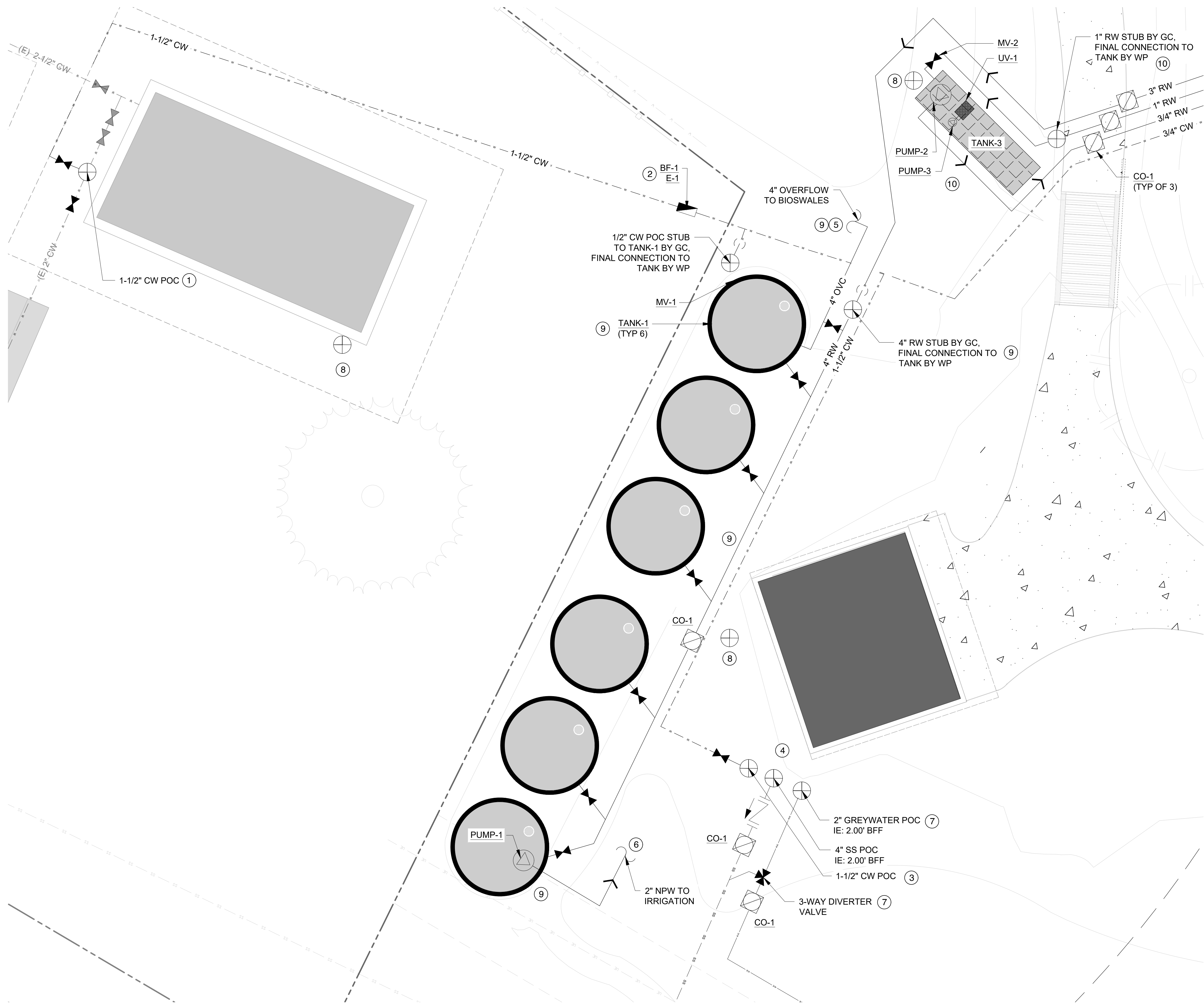
L6.1

100% CD



1 WATER REUSE AND UTILITIES PLAN





GENERAL NOTES

- A. ALL EXISTING TANKS, PIPING, AND ELECTRICAL WORK SHALL BE AVOIDED AND PROTECTED WHEN NECESSARY THROUGHOUT CONSTRUCTION.
- B. DATUM: 3645.00' ESTIMATED FROM GOOGLE EARTH AND REFERENCED TO AN ELLIPSOID GPS OBSERVATION
- C. 811 - KNOW WHAT'S BELOW - CALL BEFORE YOU DIG

SHEET NOTES

- 1. CONTRACTOR TO PROVIDE NEW 1-1/2" COLD WATER POINT OF CONNECTION TO EXISTING WELL DISTRIBUTION PIPING EXACT TIE-IN LOCATION SHALL BE FIELD VERIFIED. WHERE TIE-IN REQUIRES SYSTEM SHUT-OFF, SHUT-OFF SHALL BE COORDINATED WITH FACILITY MANAGER. PROVIDE ISOLATION VALVES DOWNSTREAM OF NEW CONNECTION ON BOTH NEW AND EXISTING COLD WATER PIPE.
- 2. CONTRACTOR TO PROVIDE BACK-FLOW PREVENTER IN SECURE ENCLOSURE IMMEDIATELY DOWNSTREAM OF CONNECTION TO WELL, PRIOR TO AND UPSTREAM OF ANY NEW OR ADDED CONNECTIONS. REFER TO DETAIL.
- 3. CONTRACTOR TO PROVIDE ABOVE GRADE CAPPED COLD WATER POINT OF CONNECTION WITH SHUT OFF VALVE AT 6-FEET OUTSIDE THE BUILDING FOR CONNECTION TO RESTROOM BUILDING.
- 4. RESTROOM MANUFACTURER SHALL INSTALL ALL UTILITY CONNECTIONS (SS, GW, CW, ELEC) INSIDE THE BUILDING TO FIXTURES. CONTRACTOR SHALL PROVIDE STUB OUT POCs TO THE BUILDING FOR COORDINATION WITH THE RESTROOM MANUFACTURER AT 6-FEET OUTSIDE THE BUILDING. CONTRACTOR TO MAKE ALL FINAL CONNECTIONS FROM THE SITE TO THE BUILDING AND ENSURE PROPER OPERATION OF ALL UTILITIES WITHIN THE BUILDING PRIOR TO RESTROOM MANUFACTURER DEPARTURE.
- 5. OTHERS TO PROVIDE SCREENED RAINWATER TANK OUTLET TO BIOSWALE. TANK OUTLETS SHALL BE PROVIDED WITH BALL-TYPE SHUT OFF VALVE LOCATED WITHIN BIOSWALE DIRECTLY UPSTREAM OF SCREENED DISCHARGE. CONTRACTOR TO PROVIDE TRENCHING. OTHERS TO MAKE FINAL CONNECTIONS. REFER TO STORMWATER PLAN FOR CONTINUATION. TANK REFER TO DETAIL 9/L6.4.
- 6. OTHERS TO PROVIDE IRRIGATION PIPING, REFER TO IRRIGATION PLAN FOR CONTINUATION.
- 7. OTHERS TO PROVIDE ENTIRETY OF GREYWATER SYSTEM. GREYWATER 3-WAY DIVERTER VALVE SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 15 OF THE CALIFORNIA PLUMBING CODE. THE 3-WAY VALVE SHALL BE PROVIDED INSIDE THE RESTROOM UTILITY CLOSET BY THE RESTROOM MANUFACTURER. ONLY WHERE PIPING CONSTRAINTS PROHIBIT THE INSTALLATION, THE VALVE MAY BE INSTALLED AT GRADE WITH ACCESS COVER BY OTHERS (AS SHOWN ON THE DRAWINGS). COST OF 3-WAY VALVE SHALL BE INCLUDED BY OTHERS - WHERE THE VALVE IS PROVIDED BY THE RESTROOM MANUFACTURER, COST SHALL BE REFUNDED TO THE OWNER.
- 8. CONTRACTOR TO PROVIDE ELECTRICAL POINT OF CONNECTION - REFER TO L-7 SERIES.
- 9. SCOPE OF WORK FOR TANK-1 SYSTEM IS AS FOLLOWS:
 - 9.1. CONTRACTOR SHALL PROVIDE POINTS OF CONNECTION AS INDICATED ON PLANS FOR 4" RW & 1/2" CW TO TANK.
 - 9.2. CONTRACTOR TO PROVIDE ELECTRICAL POINT OF CONNECTION FOR PUMP.
 - 9.3. CONTRACTOR TO PROVIDE TANKS AND COORDINATE TANK INSTALLATION SCHEDULE WITH OTHERS AND MANUFACTURER.
 - 9.4. OTHERS TO INSTALL ALL DAISY-CHAIN PIPING, PIPING TO TANK PORTS, OVERFLOW CONVEYANCE AND PUMPED NPW PIPING.
 - 9.5. OTHERS TO INSTALL PUMP SYSTEM.
 - 9.6. OTHERS TO ENSURE FUNCTIONALITY OF A COMPLETE SYSTEM.
- 10. SCOPE OF WORK FOR TANK-3 SYSTEM IS AS FOLLOWS:
 - 10.1. CONTRACTOR SHALL PROVIDE POINTS OF CONNECTION AS INDICATED ON PLANS FOR BELOW GRADE 3" RW TO TANK.
 - 10.2. CONTRACTOR TO PROVIDE ELECTRICAL POINT OF CONNECTION FOR PUMP
 - 10.3. OTHERS TO PROVIDE TANK AND COORDINATE TANK INSTALLATION SCHEDULE WITH CONTRACTOR AND MANUFACTURER.
 - 10.4. OTHERS TO INSTALL ALL PIPING TO TANK-3 AND PIPING FROM TANK-3 TO FLUME STRUCTURE.
 - 10.5. OTHERS TO INSTALL PUMP AND TREATMENT SYSTEM.
 - 10.6. OTHERS TO ENSURE FUNCTIONALITY OF A COMPLETE SYSTEM.



WATERSHED PROGRESSIVE
 WWW.WATERSHEDPROGRESSIVE.COM
 209.732.0018
 CENTRAL SIERRA OFFICE
 18653 MAIN STREET
 GROVELAND, CALIFORNIA 95321
 OJAI OFFICE
 256 N SIGNAL ST., SUITE 6
 OJAI, CALIFORNIA 93023

Twain Heart Meadows Park
 22945 Meadow Drive, Twain Harte, CA, 95383

REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

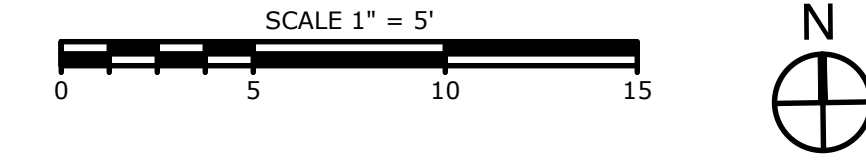
DESIGN BY: SS,MS
 DRAWN BY: MS
 REVIEW BY:JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

WATER REUSE AND UTILITIES ENLARGED PLAN

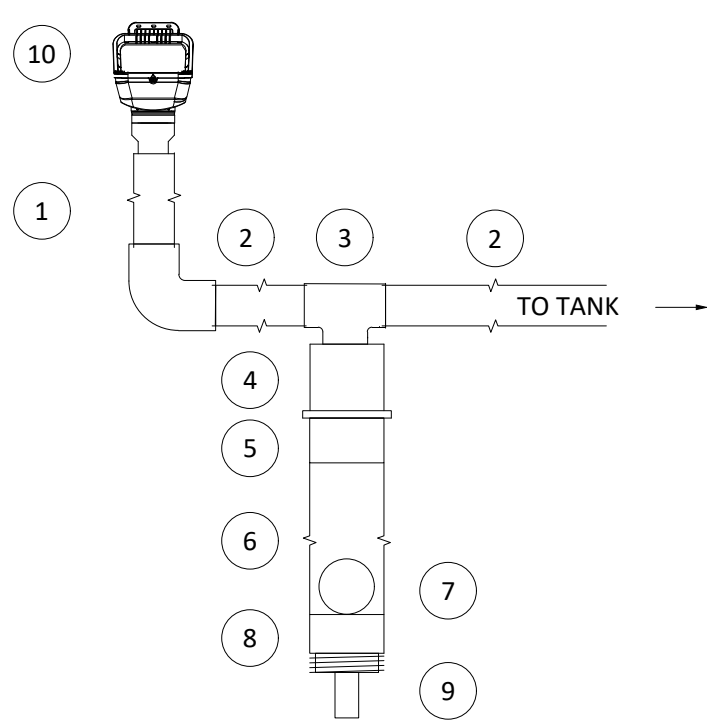
L6.1A

100% CD





WATERSHED PROGRESSIVE
 WWW.WATERSHEDPROGRESSIVE.COM
 209.732.0018
 CENTRAL SIERRA OFFICE
 18653 MAIN STREET
 GROVELAND, CALIFORNIA 95321
 OJAI OFFICE
 236 N SIGNAL ST., SUITE 6
 OJAI, CALIFORNIA 93023



DETAIL NOTES:

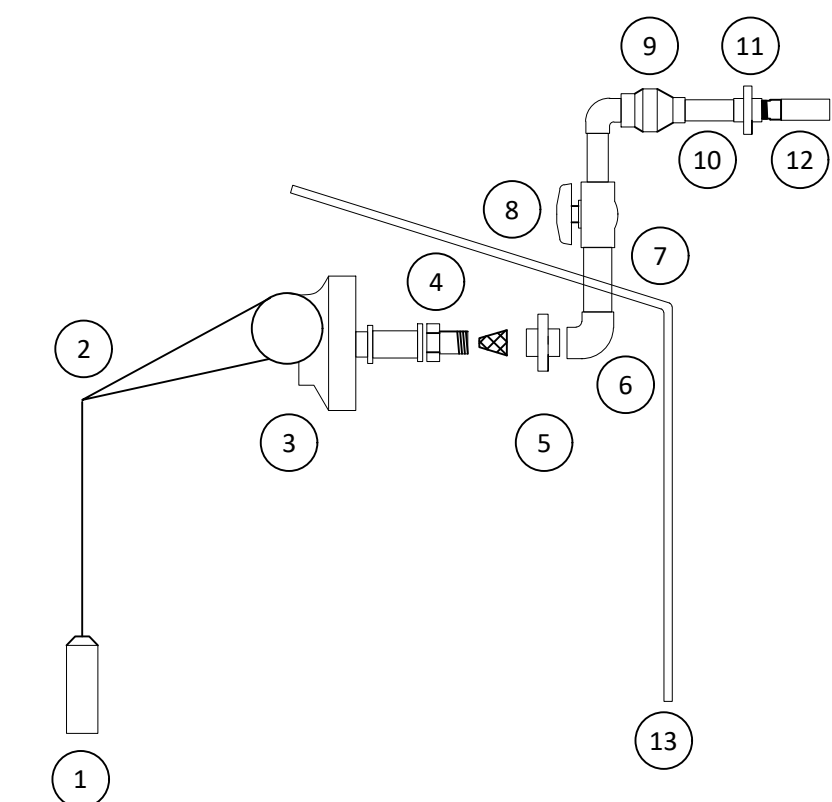
- 1) PVC LEADER PIPE
- 2) PVC PIPE
- 3) PVC TEE
- 4) BUSHING
- 5) PVC COUPLER
- 6) PVC W/ STOPPER BALL DIAMETER >2", <2.75"
- 7) PVC FTA
- 8) BUSHING MPT X FPT
- 9) RAINAID ADVANCED RELIEF VALVE
- 10) LEAF GUARD (AT DOWNSPOUT LOCATION)

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.

1 FIRST FLUSH ASSEMBLY DETAIL (TYP.)

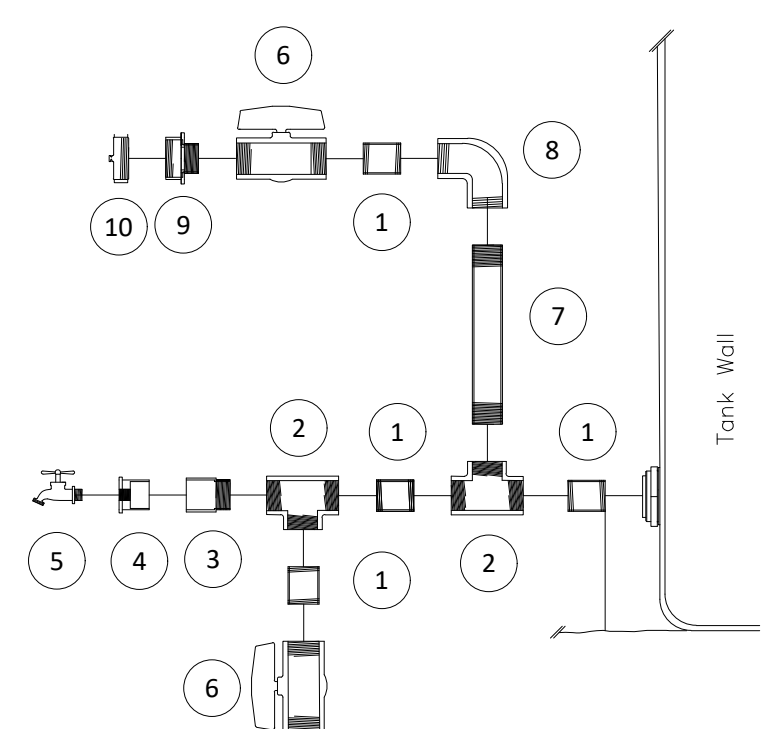
(N.T.S)



- 1) ACTIVATOR FLOAT - ADJUST LINE LENGTH 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
- 6) 3/4" PVC SCH. 40 90 ELBOW MPT X FPS
- 7) 3/4" PVC SCH. 40 PIPE
- 8) 3/4" PVC SCH. 40 BALL VALVE FPS
INSTALL W/ BALL VALVE HOUSING TOUCHING CISTERN HANDLE TO FACE DOWNHILL SLOPE OF CISTERN ROOF.
- 9) 1/2" PVC SCH. 40 SPRING CHECK VALVE FPT X 1/2"
- 10) 1/2" X 2" LONG PVC SCH. 80 NIPPLE MPT
- 11) 1/2" PVC SCH. 40 UNION FPT
- 12) 1/2" PVC SCH. 40 MALE THREAD ADAPTER
- 13) CISTERN WALL

3 RAINWATER MUNICIPAL MAKEUP WATER ASSEMBLY

(N.T.S)



DETAIL NOTES:

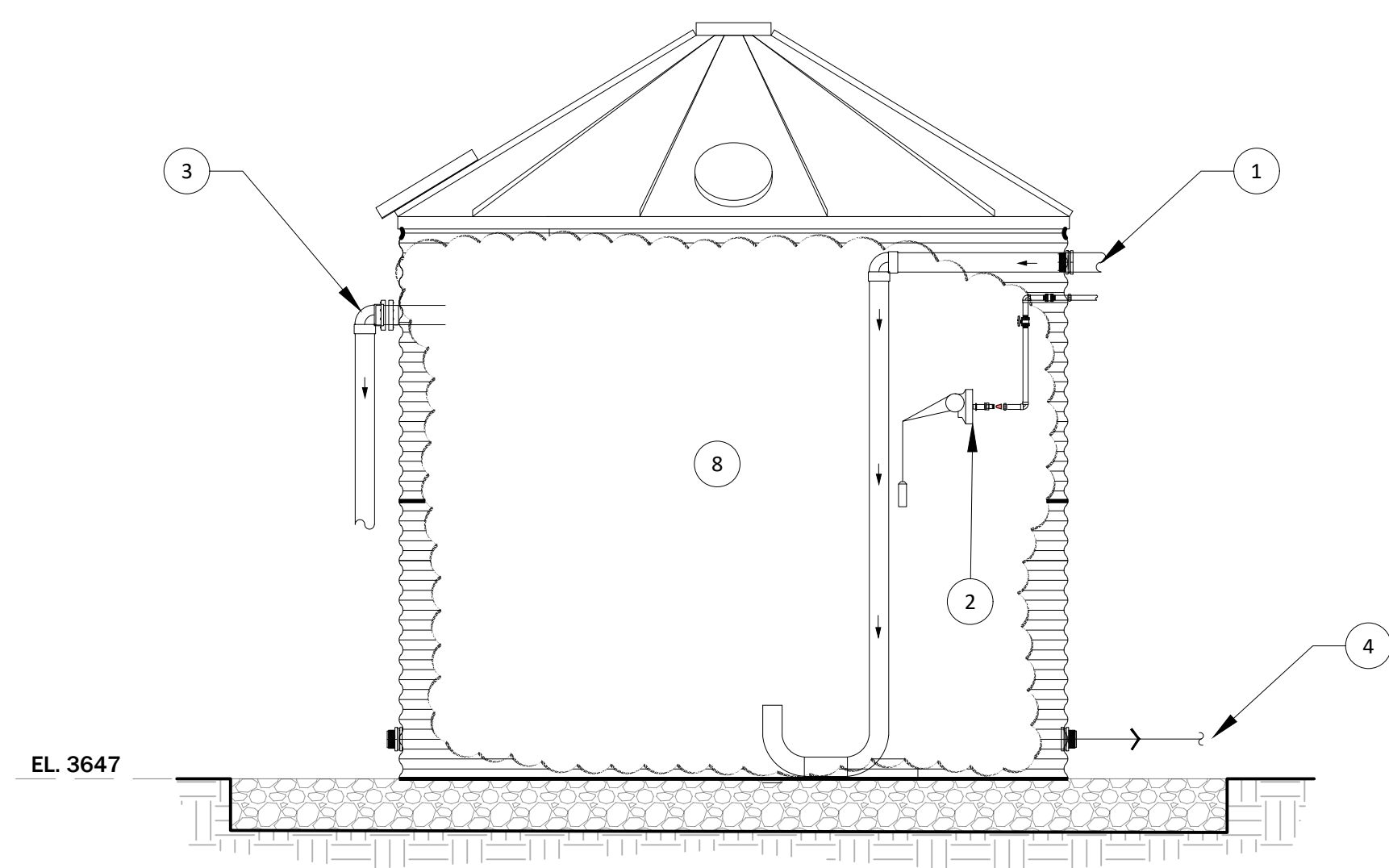
- 1) 2", 2.5" LONG PVC THREADED NIPPLE
- 2) 2" PVC SCH 40 TEE, FPT X FPT X FPT
- 3) 2" PVC SCH 40 MALE THREAD ADAPTER
- 4) 2" -> 3/4" ADAPTER BUSHING, 2" MPS X 3/4" FPT
- 5) 3/4" BRASS HOSE BIB, MPT
- 6) 2" PVC SCH. 40 BALL VALVE FPT X FPT
- 7) 2", 12"L PVC SCH. 40 THREADED NIPPLE
- 8) 2" PVC SCH. 40 90 ELBOW, FPT X FPT
- 9) 2.5" NHT -> 2" MPT BRASS THREADED ADAPTER
- 10) 2.5" BRASS FIRE CAP, FHT

GENERAL NOTES:

- A. SUPPORTING BLOCK SHALL BE PLACED BELOW OUTFLOW TO PROVIDE PIPE SUPPORT.

4 RAINWATER CISTERN MANIFOLD

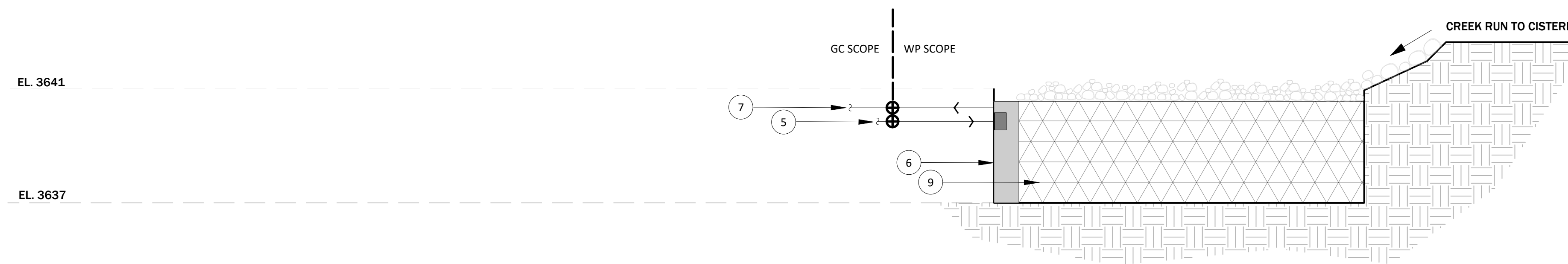
(N.T.S)



RAINWATER TANK-2 AT PAVILION

DETAIL NOTES:

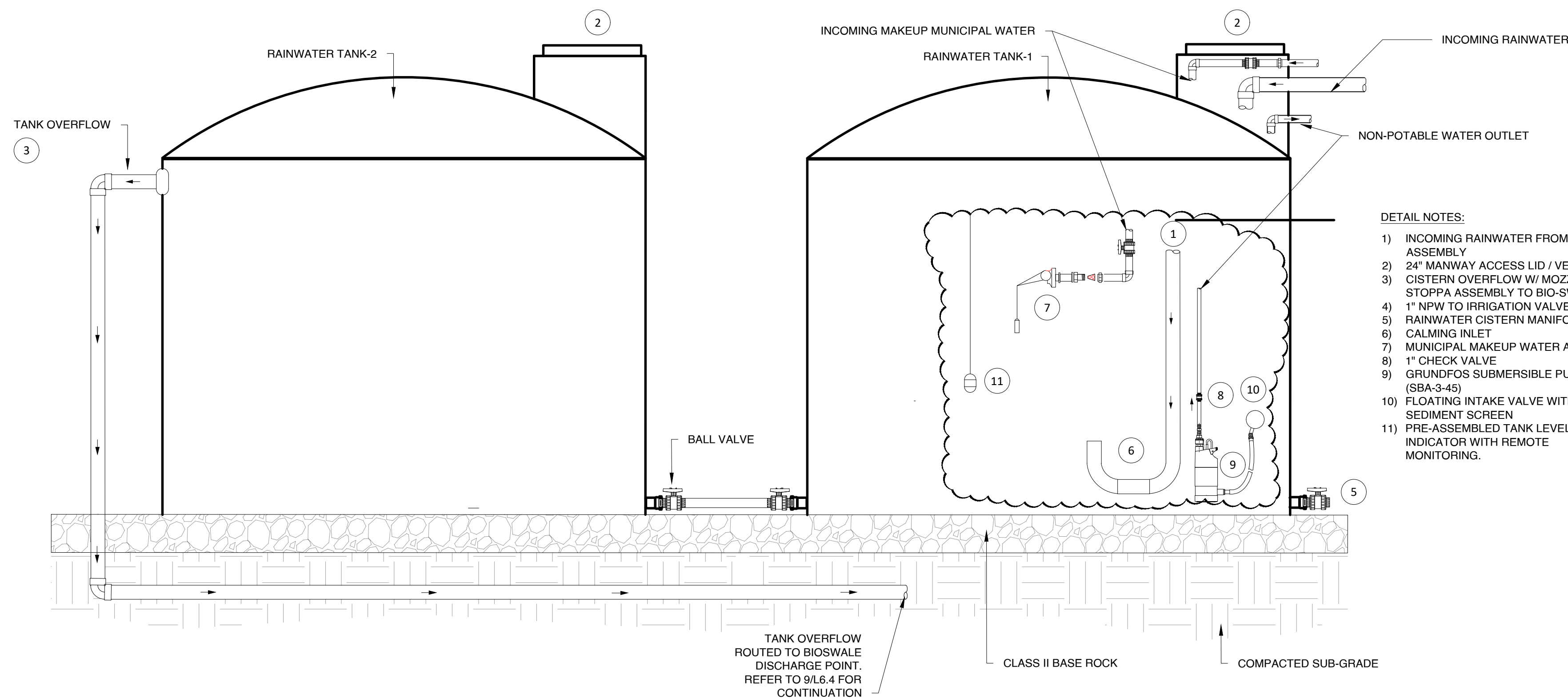
1. 3" RAINWATER FROM PAVILION
2. MV-1: RAINAID MAKEUP WATER VALVE
3. 3" RAINWATER OVERFLOW TO CREEK
4. 1" PVC RAINWATER (RW) TO UNDERGROUND CISTERN'S ON-DEMAND VALVE MV-2
5. MV-2: 1" HUDSON ON-DEMAND WATER FILL VALVE
6. PUMP-2 & PUMP-3: PUMP(S) AND HOUSING
7. 3/4" PVC PUMPED RAINWATER (NPM) TO FLUME WATER FEATURE
- * 8. TANK-2: CORRUGATED STEEL RAINWATER TANK. PORTS AND EQUIPMENT INSTALLED BY WP. ALL WORK RELATED TO TANK-2 SHALL BE COORDINATED WITH TANK MANUFACTURER. (REF. EQUIPMENT SCHEDULE)
9. TANK-3: AQUASCAPE MODULAR UNDERGROUND TANK (REF. EQUIPMENT SCHEDULE)



MODULAR TANK-3 UNDERGROUND

2 RAINWATER TANK-2 MAKEUP WATER AND FEED LINE TO WATER DISCOVERY LAB UNDERGROUND TANK-3 - ELEVATION VIEW

(N.T.S)



*** POLY TANK IN SERIES AT MEADOW (TYP.)**

(N.T.S)

DETAIL NOTES:

- 1) INCOMING RAINWATER FROM F.F. ASSEMBLY
- 2) 24" MANWAY ACCESS LID / VENTING
- 3) CISTERN OVERFLOW W/ MOZZIE STOPPA ASSEMBLY TO BIO-SWALE.
- 4) 1" NPW TO IRRIGATION VALVE(S)
- 5) RAINWATER CISTERN MANIFOLD
- 6) CALMING INLET
- 7) MUNICIPAL MAKEUP WATER ASSEMBLY
- 8) 1" CHECK VALVE
- 9) GRUNDFOS SUBMERSIBLE PUMP (SBA-3-45)
- 10) FLOATING INTAKE VALVE WITH SEDIMENT SCREEN
- 11) PRE-ASSEMBLED TANK LEVEL INDICATOR WITH REMOTE MONITORING.

DATE:
PROJECT NO.

REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

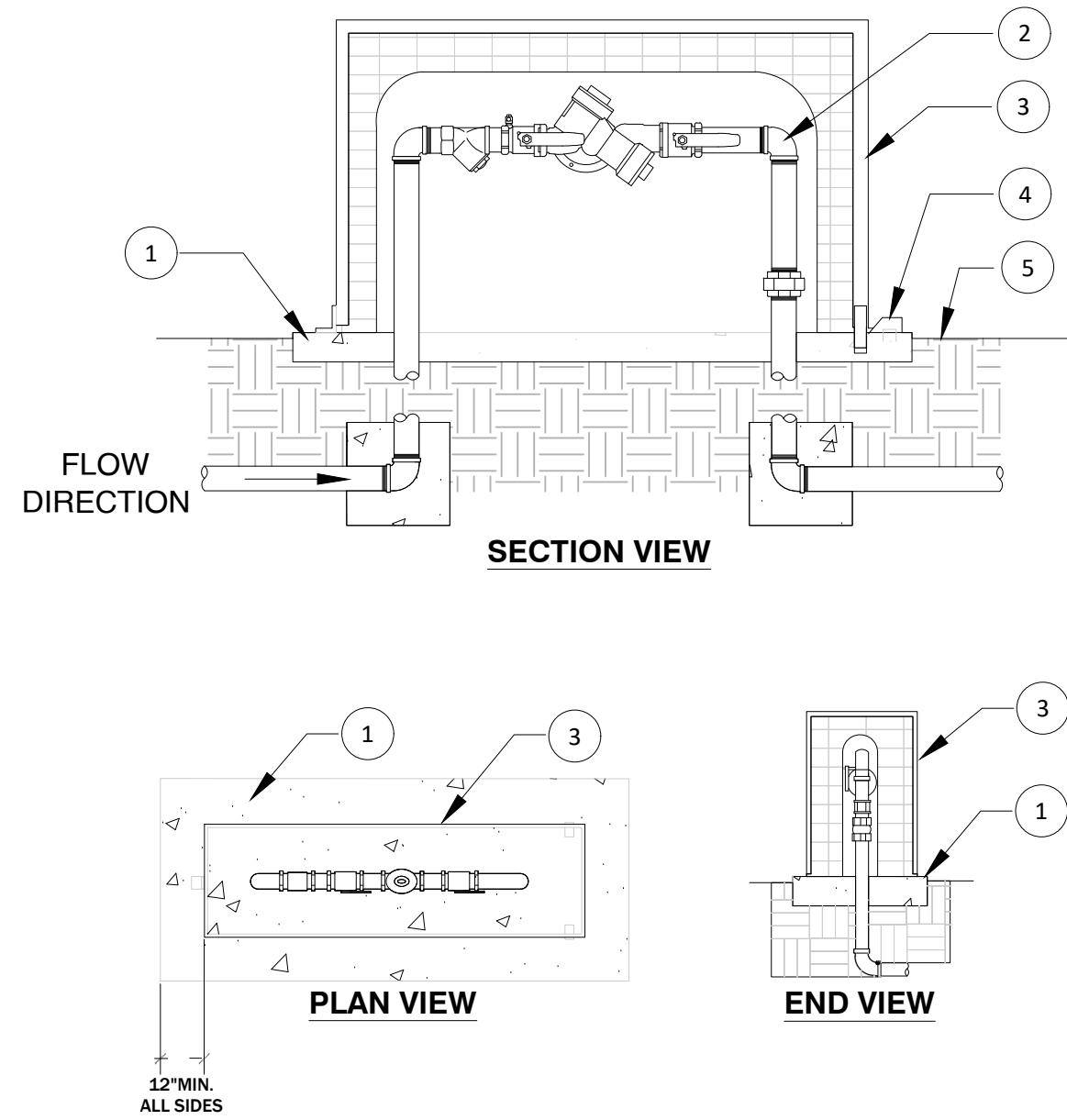
DESIGN BY: SS,MS
 DRAWN BY: MS
 REVIEW BY: JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

WATER REUSE AND UTILITIES DETAILS

L6.3

Twain Heart Meadows Park
 22945 Meadow Drive, Twain Harte, CA, 95383

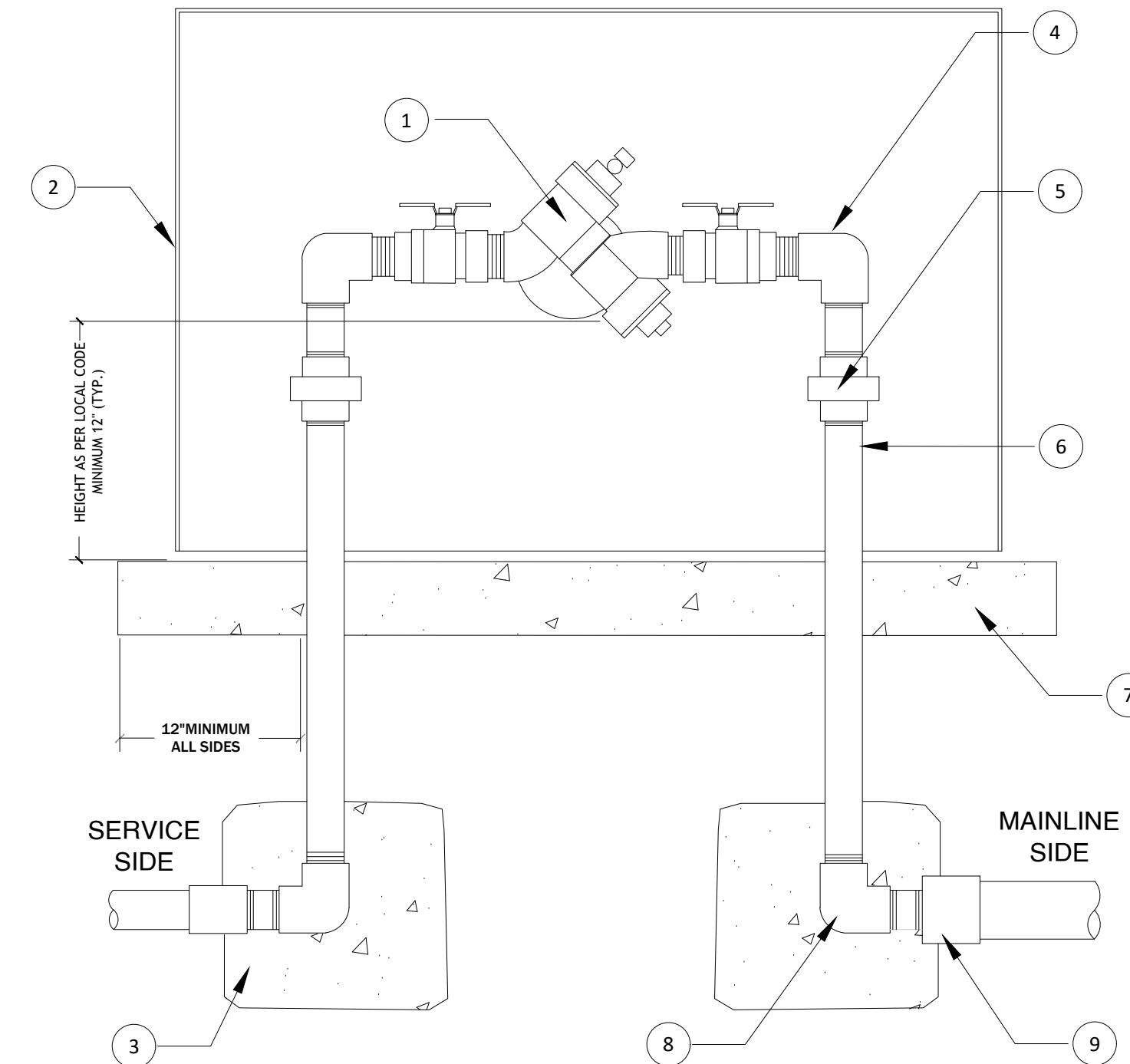


DETAIL NOTES:

- 1) 4" THICK CONCRETE FOOTING 1" ABOVE FINISHED GRADE
- 2) BACK FLOW PREVENTION DEVICE
- 3) BACK FLOW CAGE
- 4) LOCK BOX
- 5) FINISHED GRADE

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.



DETAIL NOTES:

- 1) REDUCED PRESSURE BACK FLOW DEVICE AS SPECIFIED
- 2) BACK FLOW ENCLOSURE AS SPECIFIED
- 3) CONCRETE THRUST BLOCKS
- 4) GALVANIZED NIPPLES AND ELL AS REQUIRED
- 5) GALVANIZED UNIONS AT EACH SIDE
- 6) GALVANIZED RISERS
- 7) 4" THICK MINIMUM CONCRETE PAD
- 8) GALVANIZED ELL AND NIPPLE, TYPICAL
- 9) PVC COUPLER OR REDUCER AS REQUIRED, TYPICAL

GENERAL NOTES:

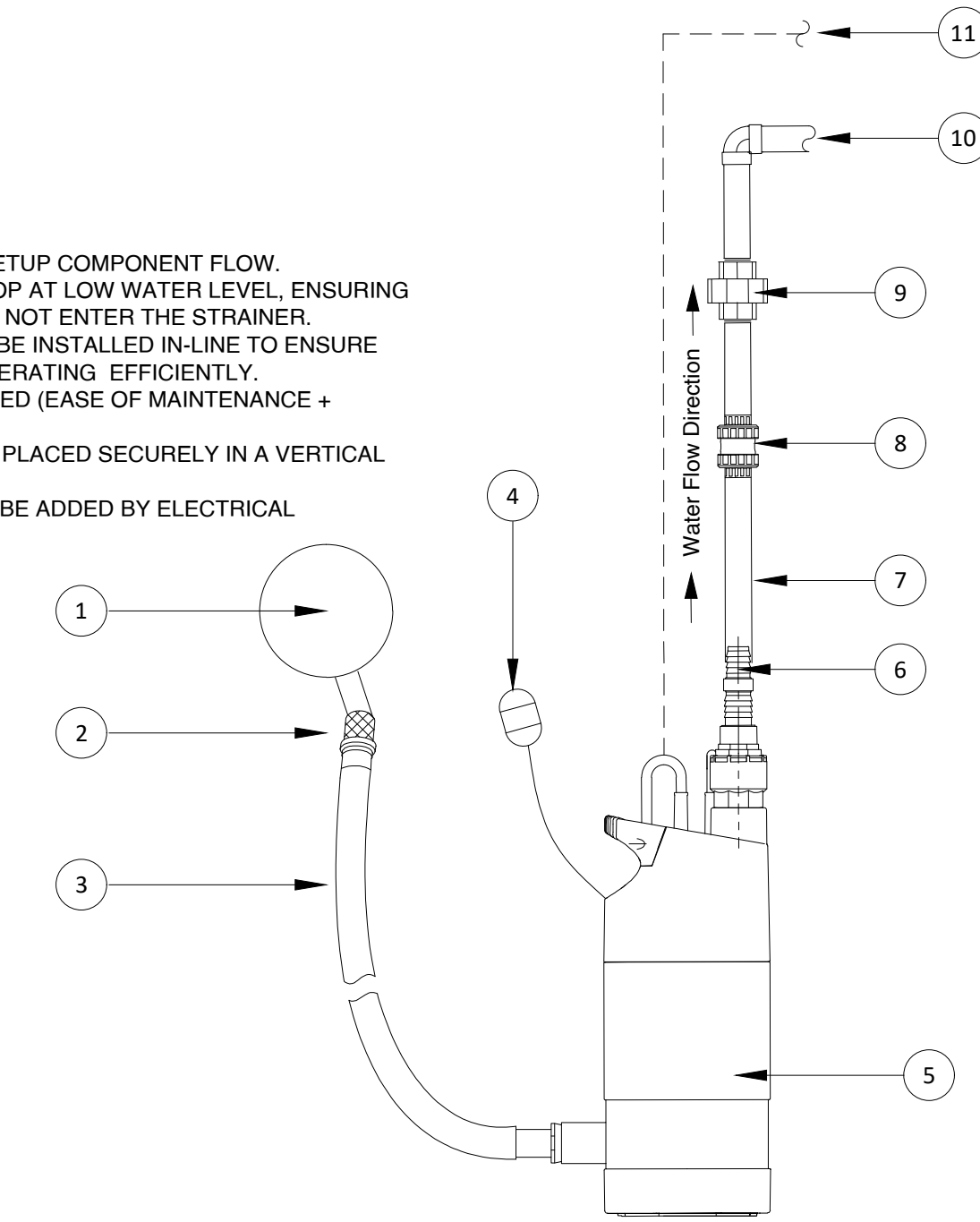
- A. PROVIDE REDUCED PRESSURE BACK FLOW PREVENTER OF ANY EXISTING WELL WATER CONNECTION TO NEW OUTLET / FIXTURE.
- B. IN ACCORDANCE WITH CALIFORNIA PLUMBING CODE 2022 CHAPTER 15 AND 16
- C. UNIONS TO BE PLACED AS NEEDED (EASE OF MAINTENANCE + REPLACEMENT)
- D. REDUCED PRESSURE BACK FLOW PREVENTER TO BE TESTED BY QUALIFIED TECHNICIAN.

DETAIL NOTES:

- 1) FLOATING BALL
- 2) SUCTION STRAINER (1MM MESH)
- 3) FLEXIBLE TUBING
- 4) FLOAT SWITCH
- 5) SUBMERSIBLE PUMP
- 6) BARBED FITTING + HOSE CLAMP
- 7) SUPPLY LINE
- 8) NON-RETURN CHECK VALVE
- 9) UNION
- 10) PUMP LINE OUT
- 11) PUMP POWER LINE

GENERAL NOTES:

- A. TYPICAL SUBMERSIBLE PUMP SETUP COMPONENT FLOW.
- B. THE FLOAT SWITCH OFFERS STOP AT LOW WATER LEVEL, ENSURING THAT SURFACE FRAGMENTS DO NOT ENTER THE STRAINER.
- C. NON-RETURN CHECK VALVE TO BE INSTALLED IN-LINE TO ENSURE PUMP REMAINS PRIMED AND OPERATING EFFICIENTLY.
- D. UNIONS TO BE PLACED AS NEEDED (EASE OF MAINTENANCE + REPLACEMENT)
- E. ENSURE SUBMERSIBLE PUMP IS PLACED SECURELY IN A VERTICAL POSITION INSIDE TANK.
- F. ELECTRICAL POC FOR PUMP TO BE ADDED BY ELECTRICAL CONTRACTOR



6 * BACKFLOW PREVENTER ENCLOSURE (N.T.S)

7 * REDUCED PRESSURE BACKFLOW DEVICE (N.T.S)

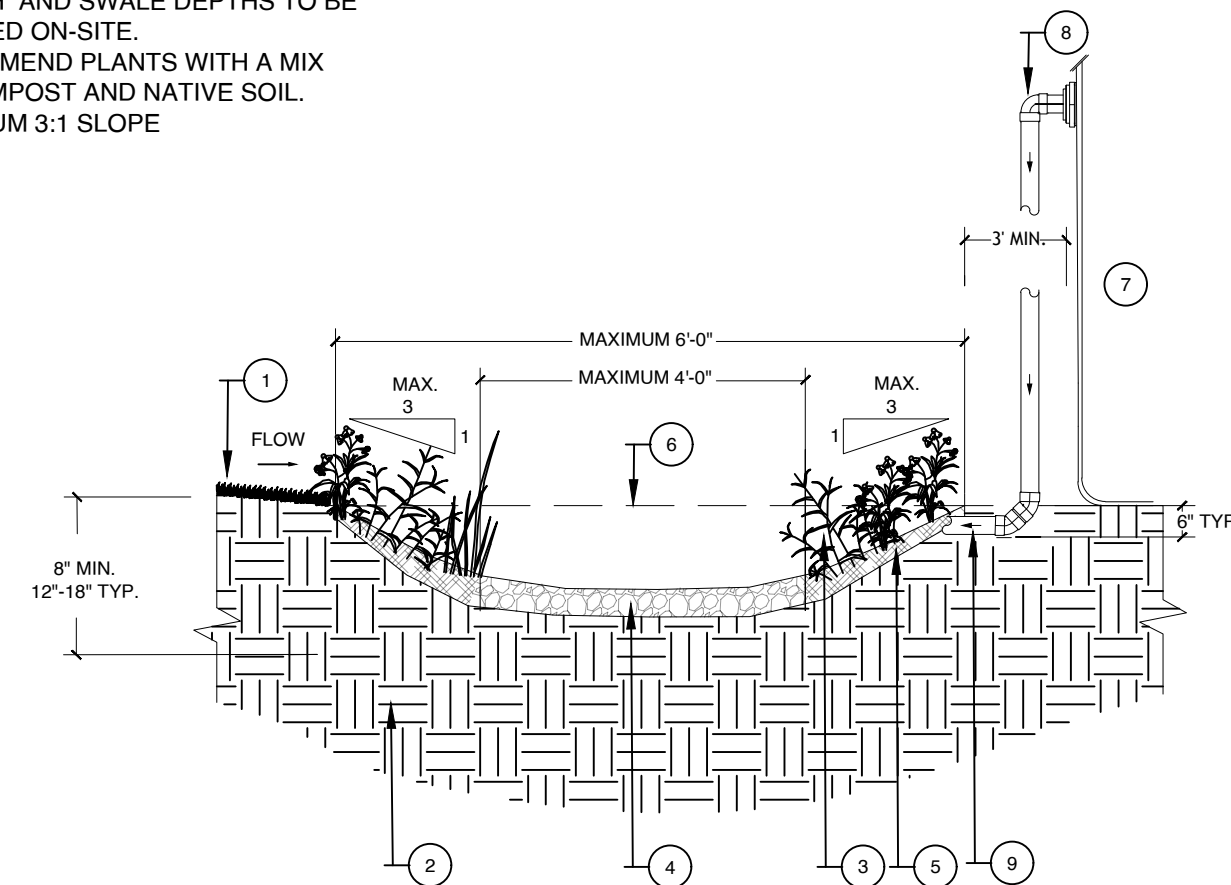
8 * SUBMERSIBLE PUMP DETAIL (TYP) (N.T.S)

GENERAL NOTES:

- A. BIO-SWALE ALIGNMENT MAY BE STRAIGHT OR MEANDERING, DEPENDING ON AVAILABLE SPACE.
- B. TREES AND SHRUBS SHOULD BE LOCATED AN APPROPRIATE DISTANCE FROM THE SWALE BASED ON SPECIES' TOLERANCE OF SATURATED SOIL CONDITIONS.
- C. USE OF GRAVEL / RIVER ROCK MULCH AND SWALE DEPTHS TO BE VERIFIED ON-SITE.
- D. SPOT AMEND PLANTS WITH A MIX OF COMPOST AND NATIVE SOIL.
- E. MAXIMUM 3:1 SLOPE

DETAIL NOTES:

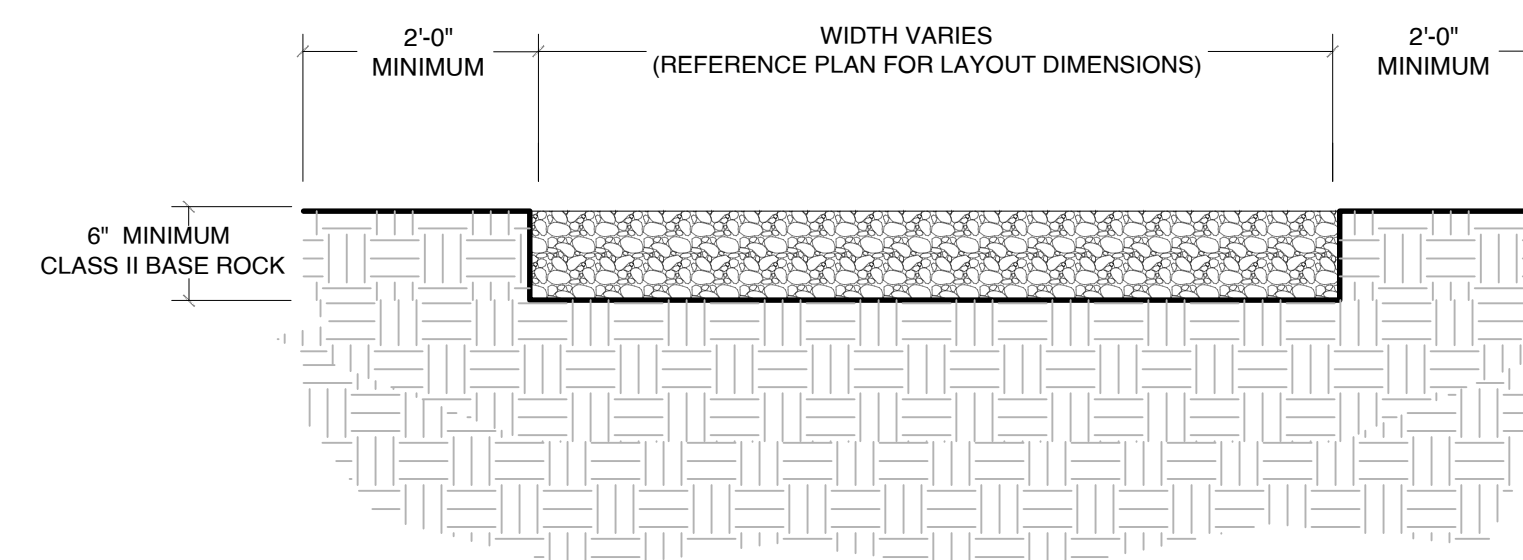
- 1) (E) GRADE - ADJACENT SURFACES MAY VARY
- 2) UN-COMPACTED SUB GRADE
- 3) NATIVE SWALE BASIN PLANTS - REFERENCE PLANTING PLAN
- 4) GRAVEL / RIVER ROCK, 3-4" DEPTH (MAXIMUM OF 6")
- 5) MULCH, 3-4" DEPTH (MAXIMUM OF 6")
- 6) FILL LINE
- 7) RAINWATER CISTERN SIDE WALL
- 8) RAINWATER OVERFLOW CONVEYANCE PIPE
- 9) RAINWATER OVERFLOW INTO BIO-SWALE. PROVIDE WITH SCREENED OUTLET.



9 BIO-SWALE + RAINWATER TANK DISCHARGE (TYP.) (N.T.S)

GENERAL NOTES:

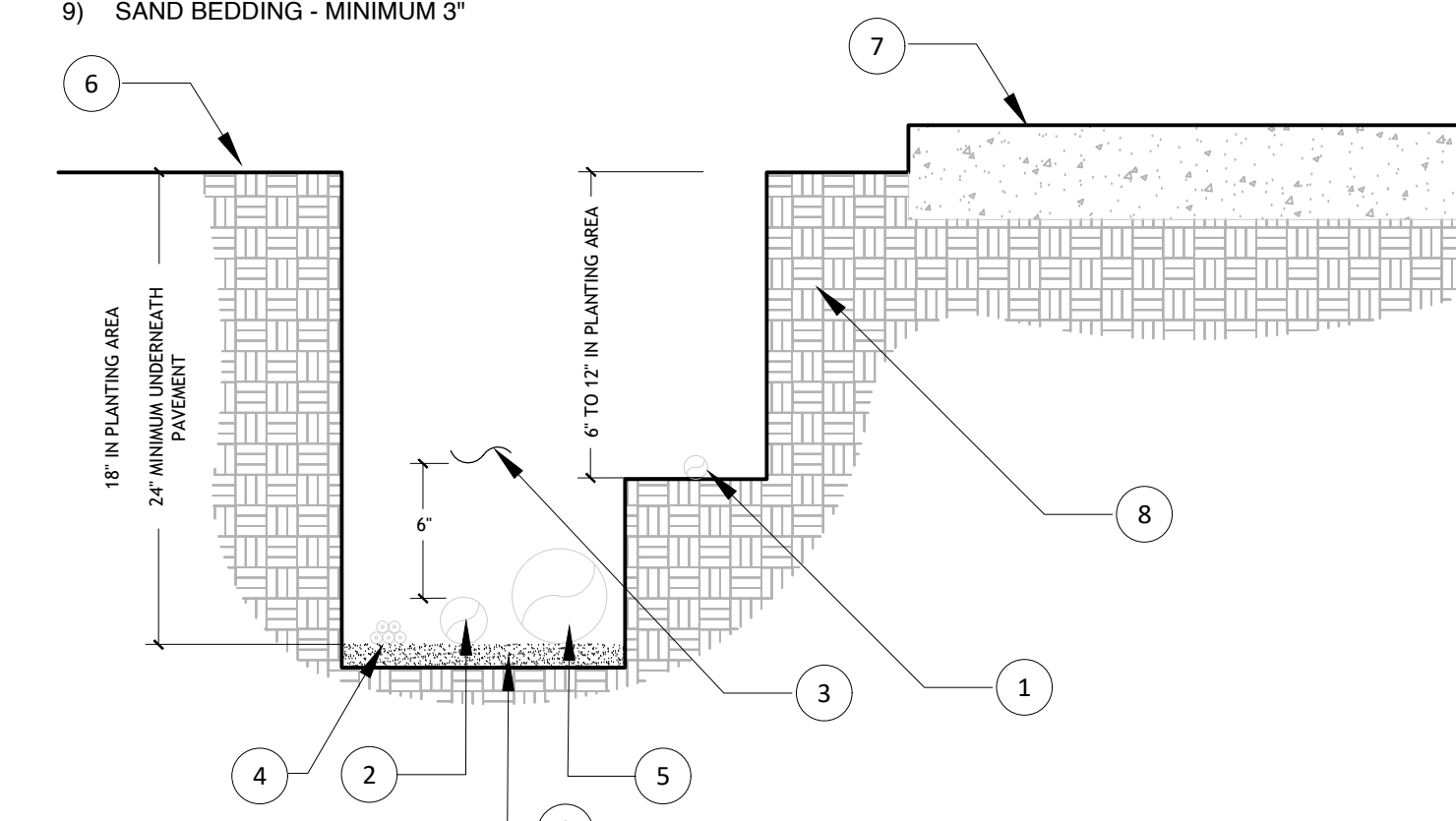
- A. ENSURE SUB-GRADE IS WELL COMPACTED AND LEVEL.
- B. ENSURE CLASS II BASE ROCK - COMPACTED 95%.
- C. REFERENCE SITE PLAN FOR PAD DIMENSIONS & LAYOUT.
- D. RAINWATER CISTERN PAD LAYOUT AND DIMENSIONS TO BE STAKED OUT AND VERIFIED PRIOR TO GRAVEL BASE FILL & COMPACTION.
- E. REFERENCE TANK MANUFACTURER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



10 * RAINWATER CISTERN PAD DETAIL (TANK-1 AND TANK-2) (N.T.S)

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"



GENERAL NOTES:

- 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%.
- F. FOR UNPAVED AREAS, COMPACT NATIVE SOIL MATERIAL TO A RELATIVE COMPACTION OF 85%.

11 TRENCHING (TYP) (N.T.S)

DATE:
PROJECT NO.

REVISION	DATE
1 50% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

DESIGN BY: SS,MS
DRAWN BY: MS
REVIEW BY: JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

WATER REUSE
AND
UTILITIES
DETAILS

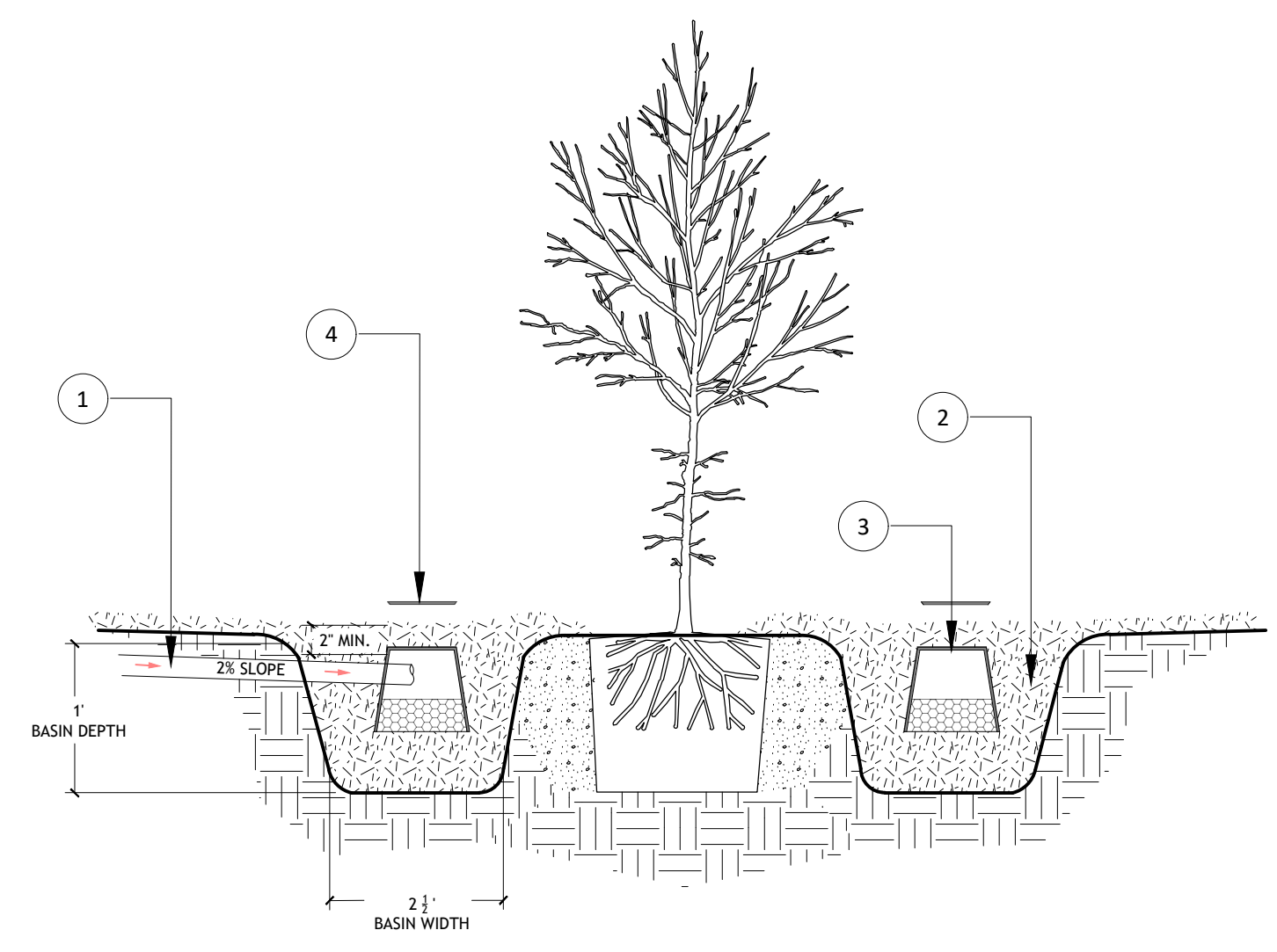
L6.4

DETAIL NOTES:

- 1) GREYWATER CONVEYANCE LINE TO MULCH BASIN
- 2) MULCH BASIN (3/4" WOOD CHIPS)
- 3) VALVE BOX
- 4) VALVE BOX LID (REMOVE FOR INSPECTION OR MAINTENANCE)

GENERAL NOTES:

- A. ENSURE ROOT CROWN IS ABOVE SOIL LEVEL AND NO MULCH AROUND CROWN TO KEEP IT WELL VENTILATED AND DRAINED, REDUCING DISEASE.
- B. ENSURE MULCH BASINS ARE FLAT FOR EVEN WATER INFILTRATION.
- C. PLANTING HOLE TO BE EXCAVATED AND BACKFILLED WITH PLAIN NATIVE SOIL FOR NATIVE TREES.
- D. MULCH: CLIPPINGS, WOOD CHIPS, LEAVES OR AS SPECIFIED IN PLANTING PLAN.
- E. GREYWATER CONVEYANCE LINE AT A MINIMUM 2% SLOPE.
- F. REFERENCE GREYWATER SYSTEM NOTES FOR MULCH BASIN SPECIFICATIONS.
- G. ENSURE ALL GREYWATER EQUIPMENT IS LABELED "NON-POTABLE WATER"
- H. ENSURE ALL LOCAL CITY AND COUNTY REGULATIONS ARE MET AND PER LATEST CPC REGULATIONS.



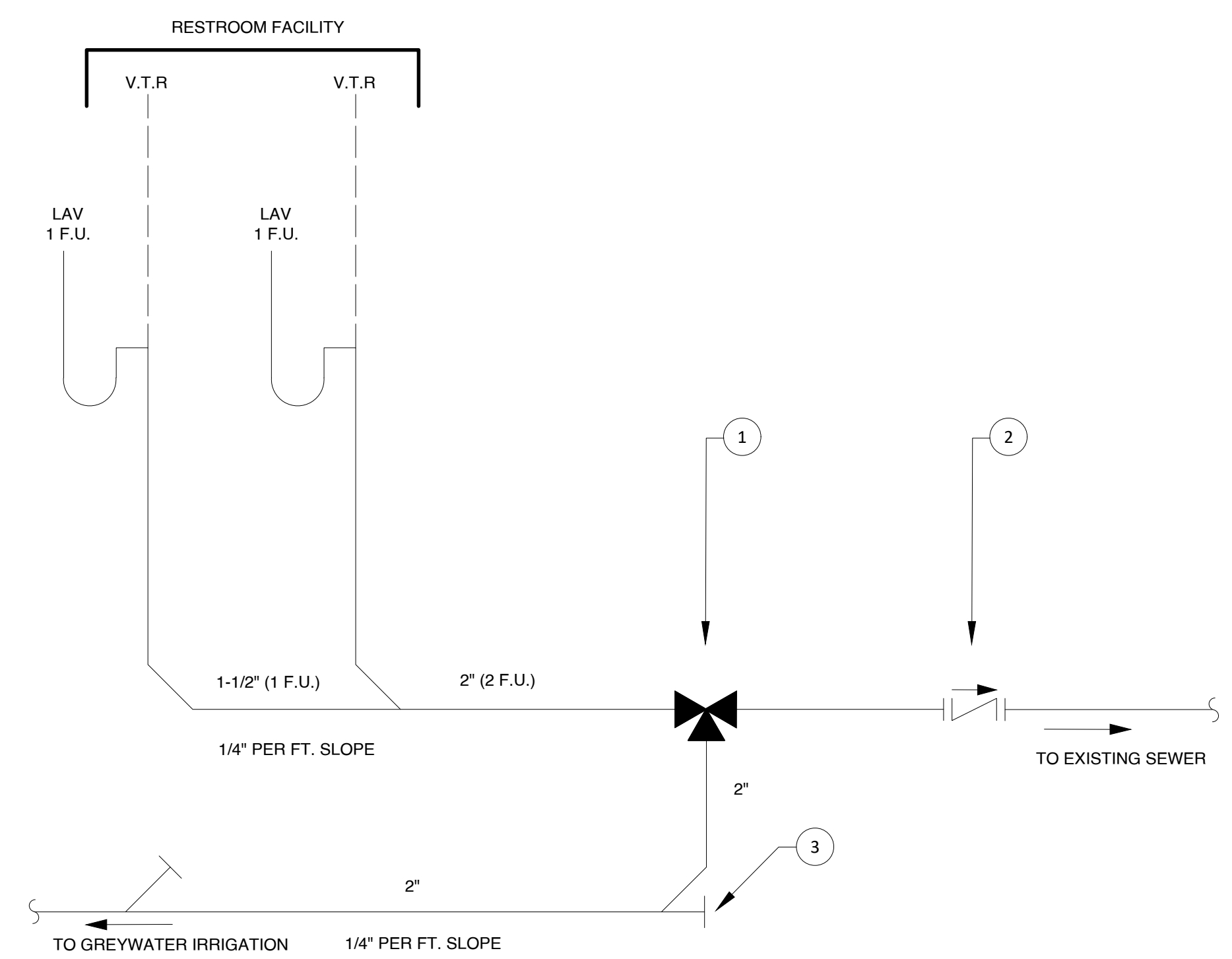
12 GREYWATER MULCH BASIN (TYP.)
(N.T.S)

DETAIL NOTES:

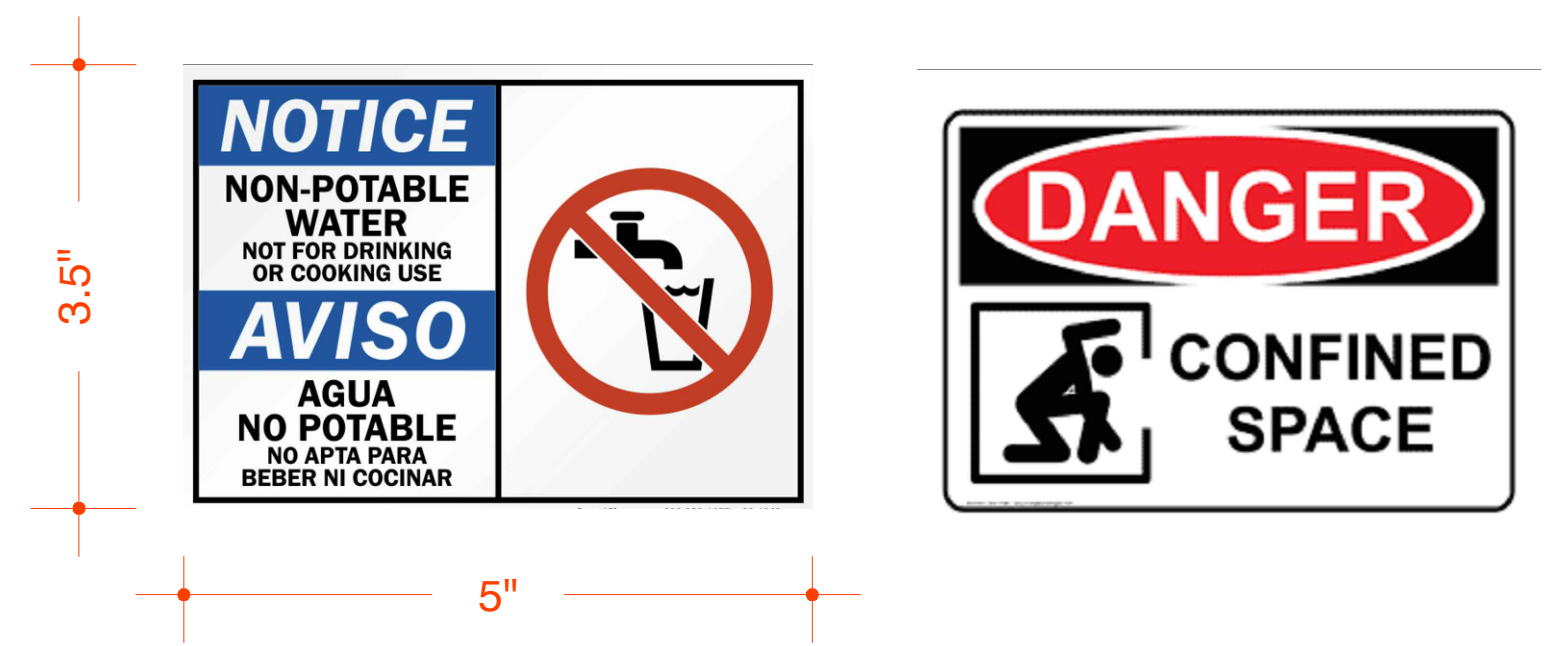
- 1) 3-WAY DIVERTER VALVE (MUST BE ACCESSIBLE)
- 2) BACKWATER VALVE (MUST BE ACCESSIBLE)
- 3) CLEANOUT

GENERAL NOTES:

- A. LAV - RESTROOM LAVATORY (SINK)
- B. F.U. - FIXTURE UNIT
- C. V.T.R. - VENT THROUGH ROOF
- D. 3-WAY DIVERTER VALVE AND BACKWATER VALVE FOR GREYWATER SYSTEM MUST BE ACCESSIBLE.
- E. ALL GREYWATER PIPES MUST SLOPE 1/4" PER FOOT.



14 GREYWATER RISER DIAGRAM (TYP.)
(N.T.S)



GENERAL NOTES:

- A. RAINWATER TANKS SHALL HAVE APPROPRIATE SIGNAGE NOTING "NON-POTABLE WATER" AND "DANGER CONFINED SPACE" ALL IN ACCORDANCE WITH CALIFORNIA PLUMBING CODE CHAPTER 16.
- B. SIGNAGE SHALL BE UV, CHEMICAL, ABRASION AND FADE RESISTANT.

13 NON-POTABLE SIGNAGE: SYSTEM LOCATION AND TANKS (TYP.)
(N.T.S)

NON-POTABLE WATER

GENERAL NOTES:

- 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.

15 NON-POTABLE SIGNAGE - PIPE MARKER (TYP.)
(N.T.S)

Twain Heart Meadows Park
 22945 Meadow Drive, Twain Harte, CA, 95383

DATE: _____
PROJECT NO. _____

REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

DESIGN BY: SS,MS
DRAWN BY: MS
REVIEW BY: JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

WATER REUSE AND UTILITIES DETAILS

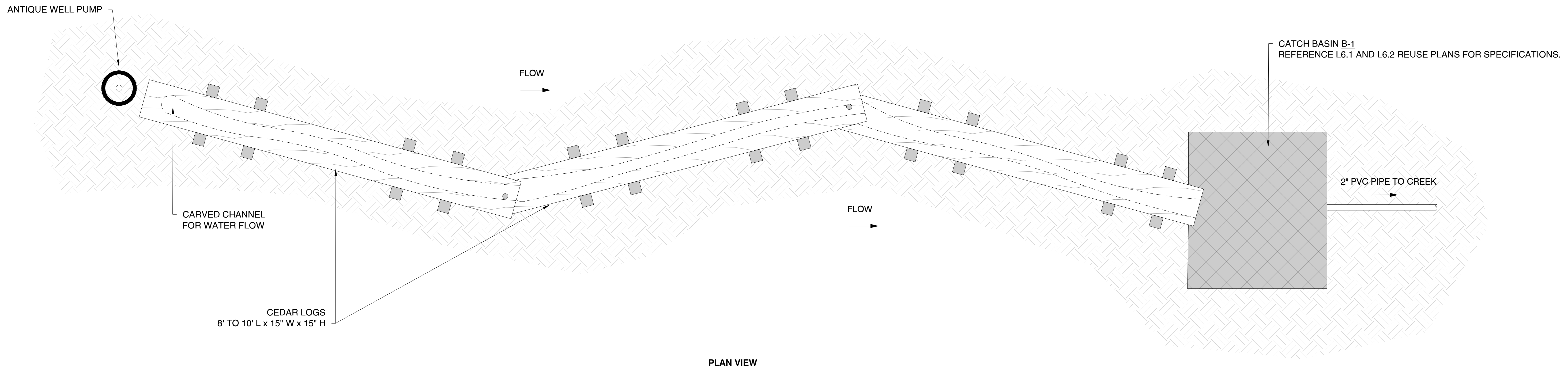
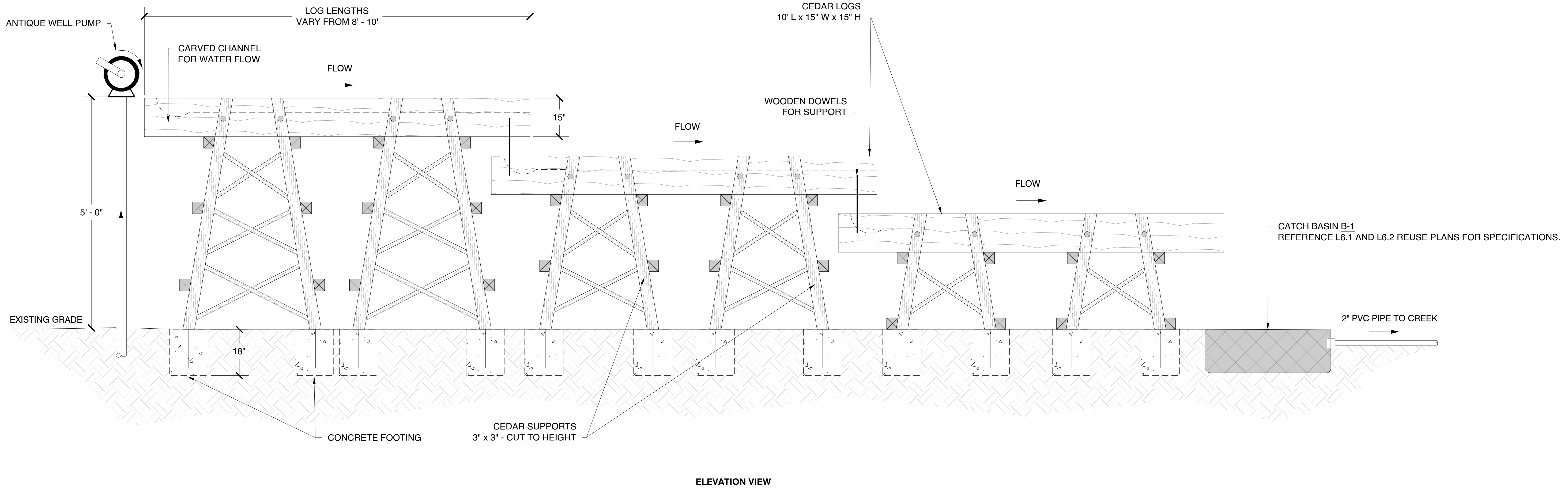
L6.5

GENERAL NOTES:

- A. FLUME TO BE STAINED WITH WOOD PROTECTANT AND THEN WITH A 2-PART CLEAR COAT EPOXY FOR LINING. ALL SAMPLES OF WOOD PROTECTANT AND CLEAR COAT EPOXY TO BE PROVIDED BY WATERSHED PROGRESSIVE 2-WEEKS BEFORE BUILD.
- B. RE-APPLICATION OF COATING BETWEEN 5-10 YEARS OR AS NEEDED.
- C. USE OF METAL OR WOOD DOWELS WILL BE DETERMINED IN THE FIELD BY WATERSHED PROGRESSIVE.



WATERSHED PROGRESSIVE
 WWW.WATERSHEDPROGRESSIVE.COM
 209.732.0018
 CENTRAL SIERRA OFFICE
 18653 MAIN STREET
 GROVELAND, CALIFORNIA 95321
 OJAI OFFICE
 256 N SIGNAL ST., SUITE 6
 OJAI, CALIFORNIA 93023



Twain Heart Meadows Park
 22945 Meadow Drive, Twain Harte, CA, 95383

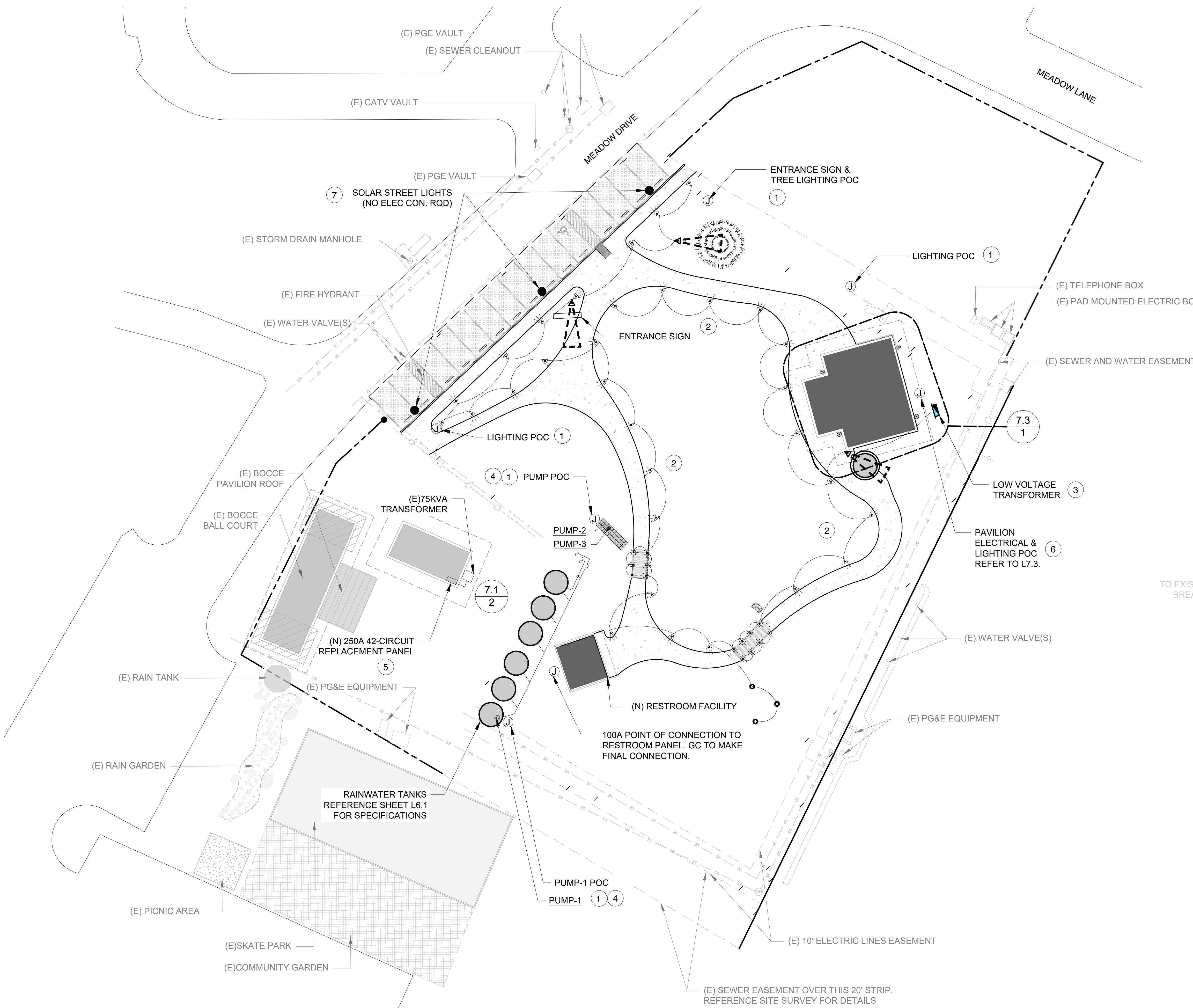
REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

DESIGN BY: SS,MS
 DRAWN BY: MS
 REVIEW BY: JPB

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

WATER REUSE AND UTILITIES DETAILS

L6.6

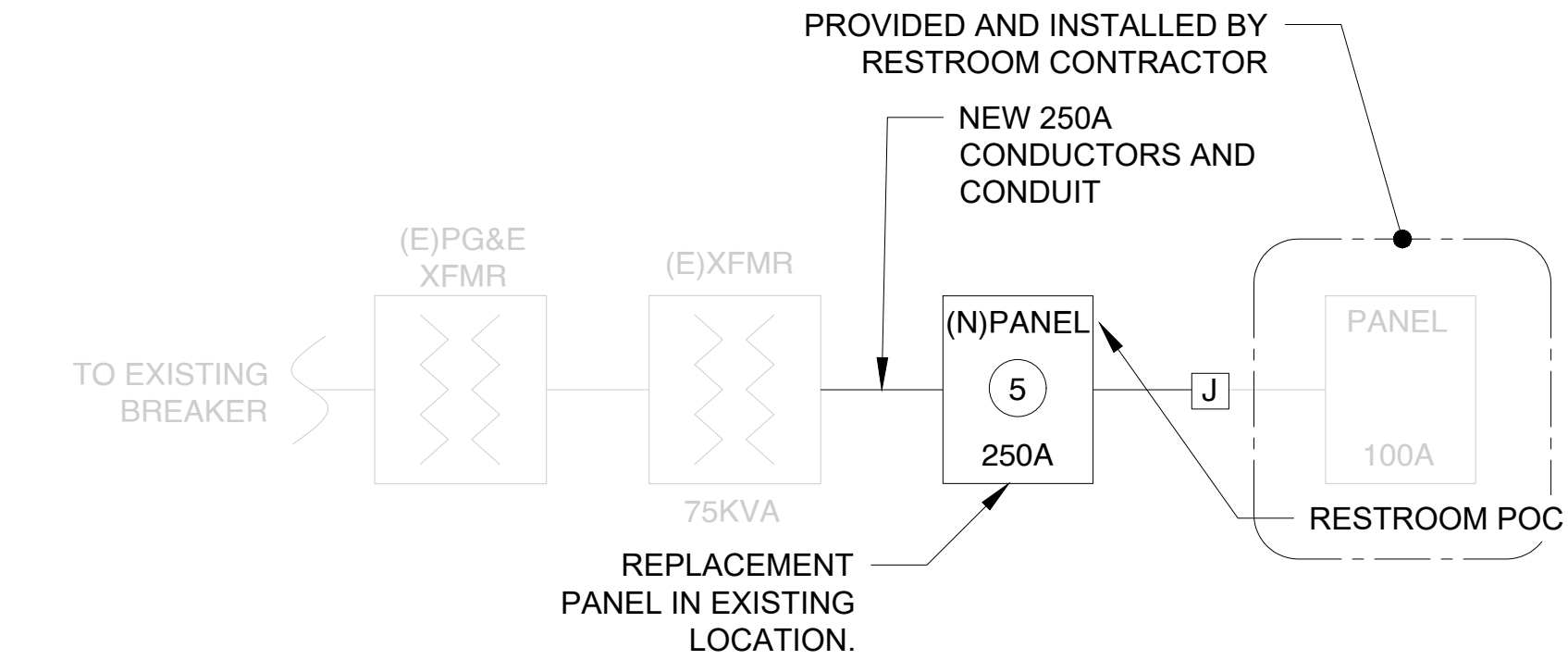


GENERAL NOTES

- A. ALL EXISTING ACTIVE UTILITIES WORK SHALL BE AVOIDED AND PROTECTED WHEN NECESSARY THROUGHOUT CONSTRUCTION.
- B. 811 - KNOW WHAT'S BELOW - CALL BEFORE YOU DIG
- C. TRENCHING FOR ALL ELECTRICAL WORK SHALL BE COORDINATED WITH ALL DISCIPLINES INCLUDING BUT NOT LIMITED TO REUSE PLANS, PATHWAY AND MATERIALS PLANS.
- D. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH PG&E AND TWAIN HARTE CSD.

LEGEND

- PROPERTY BOUNDARY
- █ EXISTING BUILDING
- █ PROPOSED BUILDING
- - - BUILDING OFFSET
- UE - UNDERGROUND ELECTRIC
- ~ LOW VOLTAGE WIRE
- ⚡ PATHWAY LIGHT
- WELL LIGHT
- ▲ UPLIGHT
- ⊗ BOARDWALK LED LIGHT STRIP
- ⊕ NEW ELECTRICAL POINT OF CONNECTION
- ▬ LANDSCAPE LIGHTING TRANSFORMER
- (E) EXISTING
- (N) NEW



2 PARTIAL SINGLE LINE DIAGRAM

SHEET NOTES

- 1. GCFI RECEPTACLE. REFER TO DETAIL 2/L7.3. PROVIDE 3/4" CONDUIT AND CIRCUIT WITH (3)#12 WIRE.
- 2. PATHWAY LIGHTING PROVIDED, COORDINATED AND INSTALLED BY OTHERS. SPACING OF PATHWAY LIGHTS FOLLOW MANUFACTURER RECOMMENDATION AND OWNER INSTRUCTION. REFER TO L7.2 FOR SCHEDULE INFORMATION.
- 3. GC TO PROVIDE CONNECTION TO LOW VOLTAGE TRANSFORMER. ALL LOW VOLTAGE WIRING AND FIXTURES BY OTHERS. WIRE ROUTES ARE SHOWN FOR DESIGN INTENT.
- 4. GC TO PROVIDE ELECTRICAL POINT OF CONNECTION TO RECEPTACLES. ALL FINAL CONNECTIONS TO ELECTRICAL PUMP EQUIPMENT SHALL BE COMPLETED BY WP. REFER TO L6 SERIES FOR PUMP SCHEDULES.
- 5. GC TO REPLACE (E) 200A HIGH LEG B PANEL WITH NEW 250A 42-CIRCUIT PANEL. RECONNECT 11 EXISTING CIRCUITS. EXISTING CONDUIT AND WIRE TO REMAIN. CONNECT ALL NEW CIRCUITS TO NEW 250A PANEL. WHILE PG&E SHUT DOWNS ARE ACCEPTABLE, ANY WORK THAT REQUIRES INPUT OR CONSTRUCTION BY PG&E IS TO BE AVOIDED AND SHALL BE BROUGHT TO OWNER'S ATTENTION PRIOR TO MOVING FORWARD.
- 6. GC TO PROVIDE (3) DEDICATED 20A SINGLE-PHASE CIRCUITS.
- 7. GC TO PROVIDE, ASSEMBLE AND INSTALL SOLAR STREET LIGHTS. REFER TO LIGHTING SCHEDULE.



Twain Harte Meadows Park
22945 Meadow Drive, Twain Harte, CA, 95383

DATE: PROJECT NO.

REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

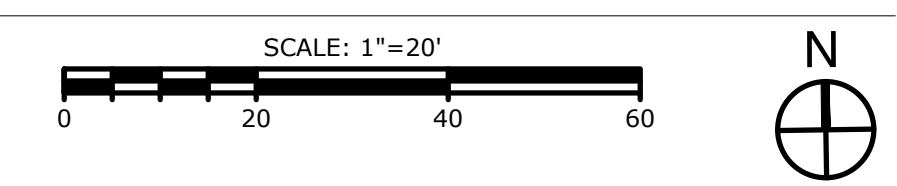
DESIGN BY: ABR
DRAWN BY: DR, MS
REVIEW BY: NS

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

LIGHTING AND ELECTRICAL PLAN

L7.1

100% CD



LIGHTING SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	TRANSFORMER 24V - TRANSFORMER	1
	PATHWAY LIGHTS FOCUS INDUSTRIES PL-23-DM-24-BAR	31
	WELL LIGHTS SPJ-MW1000-P-RB CAST BRASS, AGED BRASS (AG), GRADE LEVEL LAMP: FB-2W-TA16, 2W/2VA, 2200K	3
	LED LIGHT FOR BOARDWALK IP65-UB-AT1-30K97C OUTDOOR (IP65) ULTRABRIGHT™ ACCENT SERIES LED STRIP LIGHT - 3.5 WATTS/FT	60 If
	UP-LIGHTS FOCUS INDUSTRIES RXD-01-BAR	3
	SOLAR STREET LIGHTS HAPCO 12' SOLAR POLE, DIRECT BURY	3
	PAVILION - PENDANT LIGHTS SPJ LIGHTING SPJ-49-05	10
	PAVILION - WELL LIGHTS SPJ LIGHTING SPJ-CBWL-16	2

ELECTRICAL GENERAL NOTES

- THIS PLAN IS INTENDED FOR LANDSCAPE LIGHTING PURPOSES ONLY. ALL LIGHTING FIXTURES AND TRANSFORMERS SHALL BE INSTALLED BY A LICENSED ELECTRICIAN PER MANUFACTURER'S SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN COMPLIANCE WITH ALL LOCAL BUILDING AND ELECTRICAL SAFETY CODES AND ORDINANCES.
- FIXTURES ARE SHOWN IN APPROXIMATE LOCATION. THE CONTRACTOR SHALL FIELD VERIFY THE ACTUAL PLACEMENT OF EACH FIXTURE UPON COMPLETION OF LANDSCAPE INSTALLATION.
- ALL PATH LIGHTS ARE TO BE INSTALLED AT A MINIMUM OF 12-INCHES FROM ANY SIDEWALK OR VERTICAL STRUCTURE.
- ALL LOW-VOLTAGE DIRECT BURIAL WIRE TO BE INSTALLED AT >=6" BELOW FINISH GRADE PER ELECTRICAL CODE.
- IN ORDER TO MINIMIZE FUTURE DISTURBANCE, ALL WIRE RUNS SHALL BE INSTALLED PARALLEL AND ADJACENT TO HARD SURFACES SUCH AS SIDEWALKS, DRIVEWAYS AND WALLS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SLEEVES UNDER ALL HARDSCAPE SURFACES USING A MINIMUM 1-INCH PVC PIPE.
- ALL UNDERGROUND SPLICES SHALL BE UL-486 RATED AND INSTALLED IN UNDERGROUND J-BOXES WITH WATER TIGHT CONNECTIONS LEAVING 12-INCHES OF EXCESS WIRE SLACK.
- ALL EXTERIOR 120-VOLT ELECTRICAL OUTLETS SHALL BE GFI-PROTECTED AS PER NATIONAL ELECTRICAL CODE.
- ALL TRANSFORMERS PLUGGED INTO AN OUTDOOR RECEPTACLE SHALL HAVE AN "IN USE" COVER. CONTRACTOR SHALL INSTALL TAYMAC TYPE COVERS AT ALL OUTLETS.
- ALL PLUG-IN TRANSFORMERS SHALL HAVE A DRIP LOOP IN THE POWER CORD.
- ALL EXPOSED CONDUITS SHALL BE PAINTED TO MATCH SURROUNDINGS.
- THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE FIXTURES AT NIGHT TO HELP ELIMINATE GLARE AND TO ENSURE OPTIMUM LIGHTING EFFECT.
- CONTRACTOR TO VERIFY A MINIMUM OF 10-VOLTS AT THE LAST FIXTURE FOR OPTIMAL OPERATION.
- CONTRACTOR TO CENTER FEED THE SYSTEM WHEN AT ALL POSSIBLE AND VERIFY ALL WIRE CONNECTIONS ARE AT THE FIXTURES.
- ALL WIRE CONNECTIONS AT FIXTURES SHALL BE MADE USING WATER TIGHT CONNECTIONS.



Twain Harte Meadows Park
22945 Meadow Drive, Twain Harte, CA, 95383

PANEL SCHEDULE

Branch Panel: NEW WELL HOUSE PANEL														
Location:			Volts: 240 DELTA HI LEG				A.I.C. Rating: 100 kAIC							
Supply From:			Phases: 3				Mains Type: MCB							
Mounting: Surface			Wires: 4				Mains Rating: 250 A							
Enclosure: NEMA 3R									MCB Rating: 250 A					
Notes: PROVIDE NEMA 3R FUSED DISCONNECT ON PRIMARY SIDE OF 75 kVA TRANSFORMER. PROVIDE BUSSMAN TYPE FRS-R, 125 A FUSES OR SIMILAR.														
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT				
1	Gazebo Light (EX)	20 A	1	1000..	1500..		1	15 A	CL2 (EX)	2				
3	Space - High Leg	--	1		--	--	1	--	Space - High Leg	4				
5	Water Tank (EX)	20 A	1			1500..	500 VA	1	15 A	Interior Lights (EX)	6			
7	Exterior Lights (EX)	20 A	1	1500..	1500..			1	20 A	Exhaust Fan (EX)	8			
9	Space - High Leg	--	1		--	--		1	--	Space - High Leg	10			
11	Pavilion Lighting - New	20 A	1			0 VA	720 VA	1	20 A	Wall Receptacle (EX)	12			
13	Pavilion Receptacles Rear - New	20 A	1	360 VA	3333..			3	70 A	Well Pump (EX)	14			
15	Space - High Leg	--	1		--	3333..		--	--		16			
17	Pavilion Receptacles Front - New	20 A	1			540 VA	3333..	--	--		18			
19	Water Pump 2 - New	20 A	1	1000..	1000..			1	20 A	Water Pump 1 - NEW	20			
21	Space - High Leg	--	1		--	--		1	--	Space - High Leg	22			
23	Water Pump 3 - New	20 A	1			1000..	500 VA	1	15 A	Generator Batter (EX)	24			
25	Restroom Building Connection - New	100 A	3	6933..	360 VA			1	20 A	Park Receptacles (2) - New	26			
27	--	--	--		6933..	--		1	--	Space - High Leg	28			
29	--	--	--			6933..	540 VA	1	20 A	Park Receptacles (2) - New	30			
31	Spare	20 A	1	0 VA	540 VA			1	30 A	Quad Outlet Connection - New	32			
33	Space - High Leg	--	1		--	--		1	--	Space - High Leg	34			
35	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	36			
37	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	38			
39	Space - High Leg	--	1		--	--		1	--	Space - High Leg	40			
41	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	42			
Total Load:				19027 VA	10267 VA	15567 VA								
Total Amps:				159 A	86 A	130 A								
Legend:														
Notes: Note - Panel has a high leg - Verify high leg in panel prior to connection - do not circuit single phase connections to high leg														

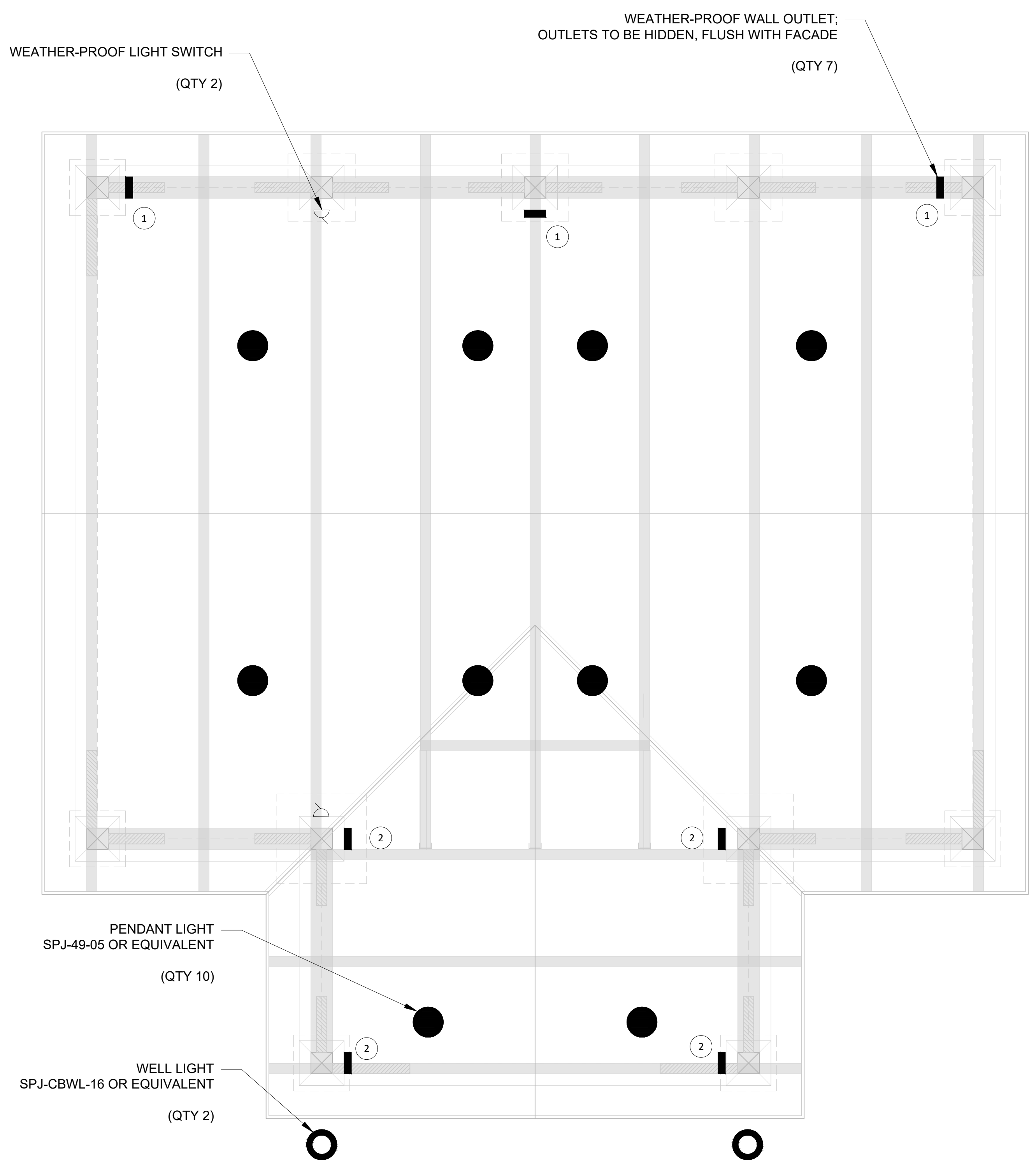
REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

DESIGN BY: ABR
 DRAWN BY: DR, MS
 REVIEW BY: NS

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

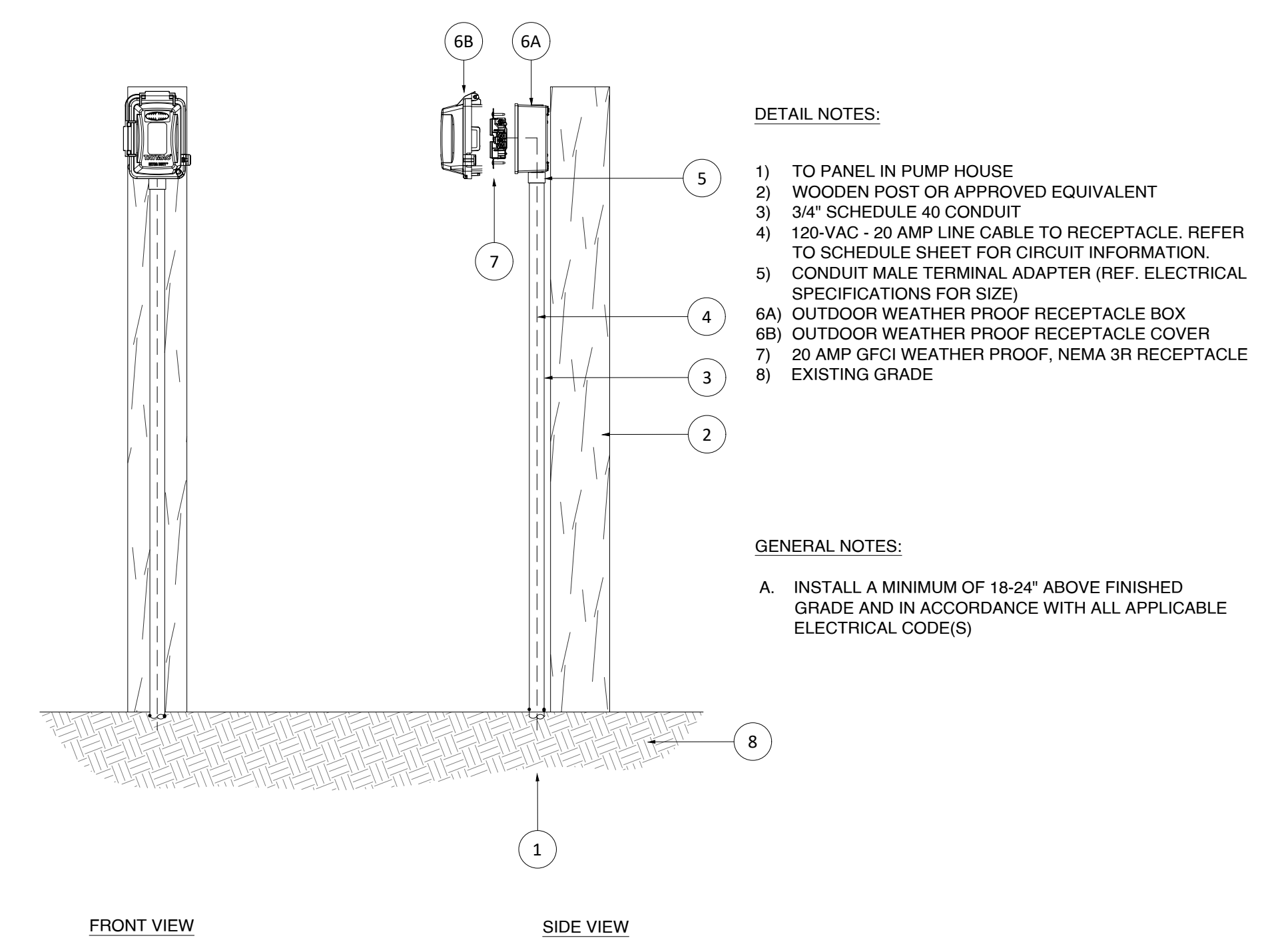
LIGHTING AND ELECTRICAL NOTES

L7.2

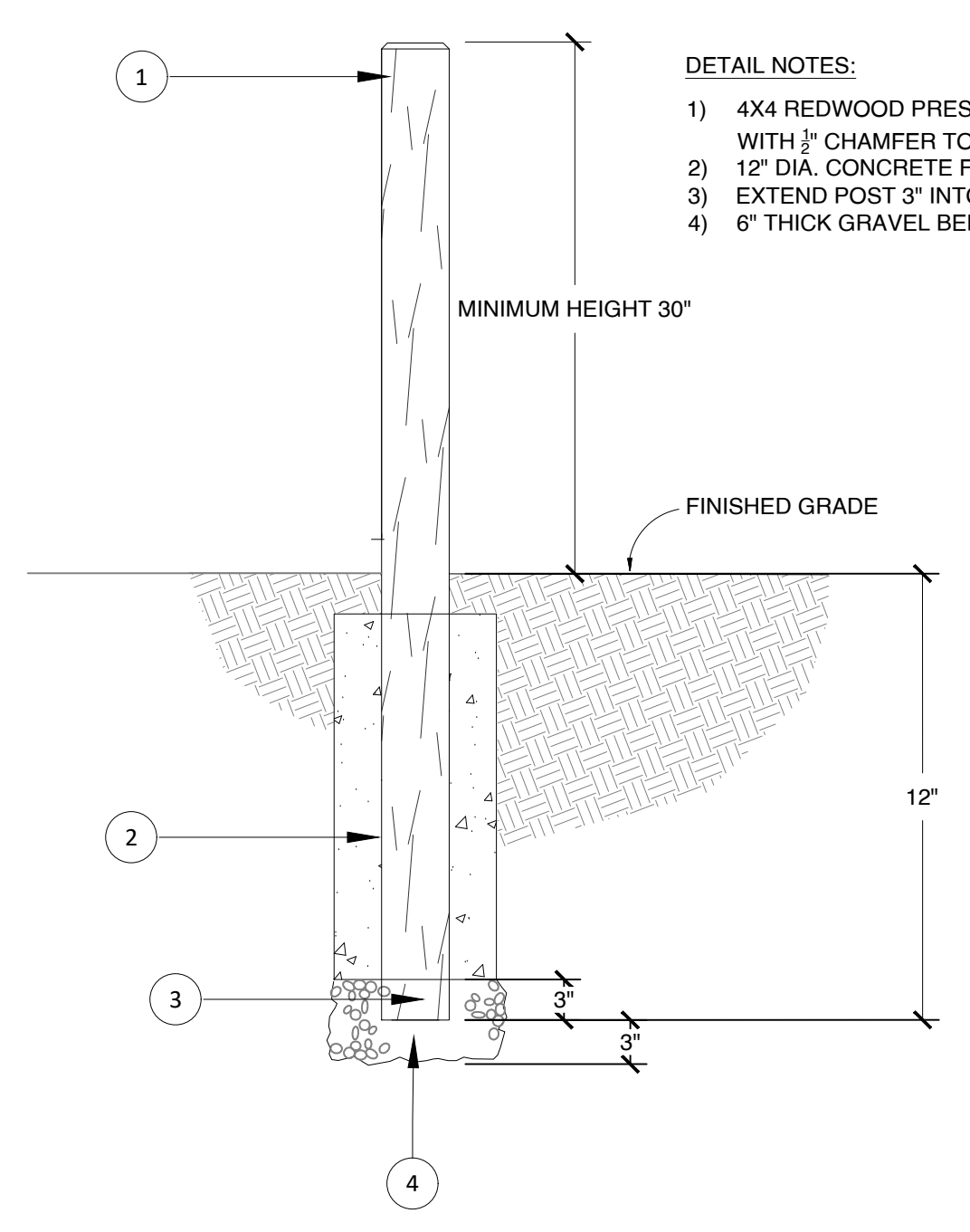


- GENERAL NOTES:**
- A. GC TO PROVIDE FULL LIGHTING AND ELECTRICAL SCOPE WITHIN PAVILION.
 - B. EXACT FIXTURE LOCATION TO BE COORDINATED WITH OWNER'S REPRESENTATIVE AND CONSTRUCTION DISCIPLINES PRIOR TO INSTALLATION.
 - C. ALL ELECTRICAL FIXTURES SHALL BE WEATHERPROOF.
 - D. PROVIDE EXTERIOR-RATED, METAL CONDUIT TO ALL FIXTURES.
 - E. ALL OUTLETS SHALL BE MOUNTED FLUSH WITH FINISHED STONE FACADE ON POSTS.
 - F. PROVIDE LOCKING COVERS FOR ALL OUTLETS AND SWITCHES. COORDINATE ALL SITE ELECTRICAL ROUTING WITH TRENCHING CONSTRUCTION.
 - H. CIRCUIT NUMBERING IS FOR REFERENCE.
 - I. CIRCUIT ALL ELECTRICAL FIXTURES TO PANEL IN WELL HOUSE. ROUTE CONDUIT UNDERGROUND TO SERVE PAVILION. COORDINATE WITH FOUNDATION AND CONCRETE VENDOR FOR EXACT LOCATIONS PRIOR TO POUR.

- DETAIL NOTES:**
- 1) CONNECT TO CIRCUIT 1.
 - 2) CONNECT TO CIRCUIT 2.



2 OUTDOOR WEATHER PROOF (GFCI) RECEPTACLE ASSEMBLY (TYP)
 NOT TO SCALE



1 OUTDOOR WEATHER PROOF (GFCI) RECEPTACLE ASSEMBLY (TYP)
 NOT TO SCALE

DATE: PROJECT NO.

REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 100% TO CSD	12.14.22
5 100% TO CSD	04.28.23
6 100% TO CSD	06.07.23

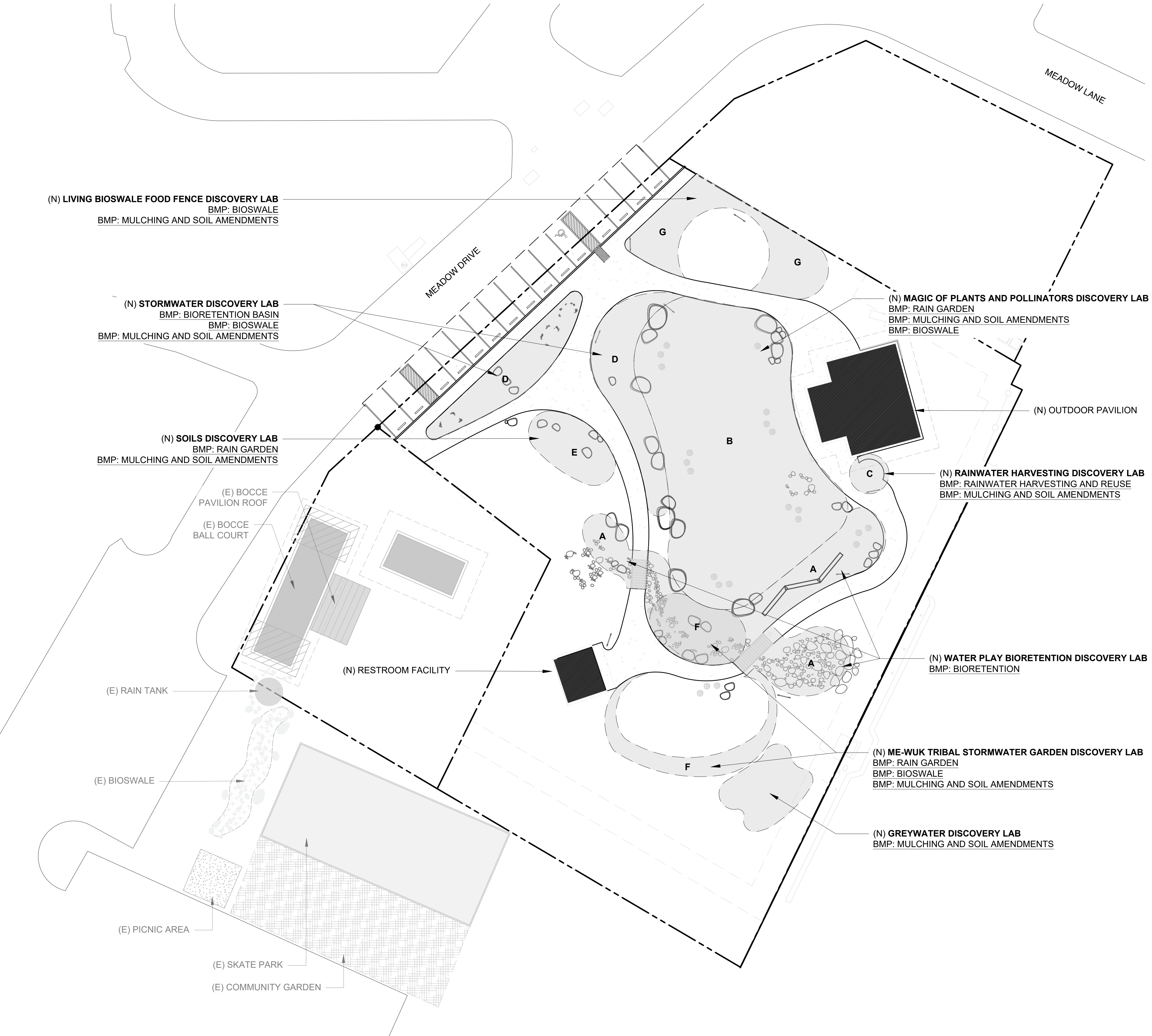
DESIGN BY: ABR
 DRAWN BY: DR, MS
 REVIEW BY: NS

© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

LIGHTING AND ELECTRICAL DETAILS

L7.3

3 PAVILION LIGHTING & ELECTRICAL LAYOUT
 NOT TO SCALE



DISCOVERY LAB NOTES

A. WATER PLAY BIORETENTION DISCOVERY LAB:

LEARNING THROUGH PLAY ABOUT THE VALUE OF CLEAN ABUNDANT WATER FOR RECREATION, AND THE DELICATE BALANCE OF HUMAN NEEDS, AND ECOSYSTEM HEALTH.

THE WATER PLAY BIORETENTION DISCOVERY LAB MIMICS NATURAL SPRINGS AND RIVERS. THIS FEATURE PROVIDES THE COMMUNITY RELIEF FROM HOT WHETHER WHILE DEMONSTRATING THE IMPORTANCE OF CLEAN WATER FOR RECREATION AND ECOSYSTEM NEEDS. THE LINK TO THE STORM WATER RAINGARDEN DISCOVERY LAB PROVIDES AN INTERACTIVE UNDERSTANDING OF HOW HUMANS AND THE REST OF THE ECOSYSTEM RELY ON THE SAME WATER SOURCES. THE PATH ALONG THIS DISCOVERY LAB INCLUDES STEPPING STONE PAVERS WITH PRINTS OF IMPORTANT PLANTS FOR THE WATERSHED AND ANIMAL TRACKS OF LOCAL SPECIES WITH THEIR NAMES IN ENGLISH AND ME-WUK. NATIVE PLANTINGS AROUND THE PLAY AREA GIVE VISITORS AND OPPORTUNITY TO BECOME MORE FAMILIAR WITH THE IMPORTANCE OF THE LOCAL ECOSYSTEM WHILE ENJOYING THE PARK. SIGNAGE WITH QR CODES WILL LINK VISITORS TO MORE INFORMATION FROM SITES LIKE THESE: [HTTPS://MEWUK.COM/CULTURAL/TRADITIONAL/](https://MEWUK.COM/CULTURAL/TRADITIONAL/)

- BENEFITS INCLUDE:**
- STORMWATER QUALITY IMPROVEMENT
 - HABITAT ENHANCEMENT
 - REDUCED FLOOD RISK

B. MAGIC OF PLANTS AND POLLINATORS DISCOVERY LAB:

HANDS-ON SCIENCE THROUGH OBSERVATION AND MONITORING.

PLANTS THAT PROVIDE FOOD AND HABITAT FOR IMPORTANT POLLINATORS ARE ALONG THE EDGE OF THE MEADOW NEAR BOULDERS WHERE VISITORS CAN SIT AND OBSERVE OR MONITOR POLLINATORS BY PARTICIPATING IN CITIZEN SCIENCE POLLINATOR COUNTS. THE USE OF STORMWATER BIOFILTRATION AND STORMWATER ABSORPTION TO SUPPORT HEALTHY PLANT LIFE AS A BEDROCK OF A POLLINATOR ECOSYSTEM IS HIGHLIGHTED. POLLEN-PRODUCING PLANTS GIVE POLLINATORS EASY ACCESS TO NUTRIENT-RICH FOOD SOURCES. BETWEEN 75% AND 95% OF ALL FLOWERING PLANTS RELY ON POLLINATORS. POLLINATOR-FRIENDLY PLANTS TREAT STORMWATER RUNOFF BY ACTING AS A PHYSICAL FILTER FOR MACRO-POLLUTANTS, ABSORBING MICRO-POLLUTANTS, AND PROVIDING EROSION CONTROL AS THEIR COMPLEX ROOT SYSTEMS STABILIZE SOIL. FLOWERING PLANTS ALSO REDUCE SOIL EROSION BY DISSIPATING THE ENERGY FROM RAINDROP IMPACT WITH THEIR FOLIAGE. IN THIS WAY, THESE POLLINATOR-FRIENDLY PLANTS REDUCE THE AMOUNT OF SEDIMENT, WHICH IS THE MOST COMMON POLLUTANT IN STREAMS, THAT REACHES TWAIN HARTE CREEK.

- BENEFITS INCLUDE:**
- HABITAT ENHANCEMENT
 - STORMWATER QUALITY IMPROVEMENT
 - ENHANCED SOIL HEALTH

C. RAINWATER HARVESTING DISCOVERY LAB:

LEARNING THROUGH OBSERVATION OF DEMONSTRATED AND CONNECTIONS.

WATER USE AT THE PAVILION IS TIED TO HOW HUMANS PARTICIPATE IN THE WATER CYCLE AND CAN CREATE A MORE SUSTAINABLE SMALL WATER CYCLE AT HOME. WATER OFF THE PAVILION ROOF IS CAPTURED AND STORED IN RAIN TANKS. THIS WATER IS REUSED FOR IRRIGATION. THIS DEMONSTRATION SHOWS HOW RAINWATER HARVESTING CAN HELP REDUCE SOIL EROSION AND FLOODING WHILE PROVIDING WATER SECURITY.

- BENEFITS INCLUDE:**
- REDUCED FLOOD RISK
 - STORMWATER QUALITY IMPROVEMENT
 - ENHANCED WATER SECURITY
 - REDUCED CONSUMPTIVE USE

D. STORMWATER DISCOVERY LAB:

HANDS-ON LEARNING THROUGH OBSERVATION AND PLAY COMBINED WITH CONCEPTUAL LEARNING FROM SIGNAGE.

PLANTS THAT CLEAN STORMWATER AND REMOVE HYDROCARBONS ARE FEATURED IN THIS AREA. BOULDERS TO SIT AND OBSERVE LOCAL FLORA AND FAUNA WILL BE PLACED IN KEY LOCATIONS. SIGNAGE WILL REVEAL THE MAGIC OF PLANTS AND INFILTRATION HAPPENING BELOW GROUND AS WELL AS QR CODES LINKED TO WATERTOOLKIT.COM TO LEARN MORE. ADDITIONALLY AN EXPERIENCE OF LOCAL WATER DISTRIBUTION IS INCORPORATED THROUGH A FLUME PLAY FEATURE. A HAND PUMP INVITES CHILDREN TO SEE HOW WATER IS PULLED OUT OF THE GROUND AND TRANSPORTED BY THE FLUME. WHEN THE PUMP IS IN USE THE WATER FLOWING THROUGH THE WATER PLAY BIORETENTION DISCOVERY LAB IS REDUCED, DEMONSTRATING THE DIRECT CONNECTION BETWEEN HUMAN USES AND ECOSYSTEM HEALTH.

- BENEFITS INCLUDE:**
- HABITAT ENHANCEMENT
 - STORMWATER QUALITY IMPROVEMENT
 - REDUCED FIRE RISK
 - ENHANCED WATER SECURITY
 - ENHANCED SOIL HEALTH

E. SOILS DISCOVERY LAB:

HANDS-ON LEARNING ABOUT THE ROLE OF SOIL HEALTH IN WATER QUALITY THROUGH OBSERVATION AND ACTIVITIES.

THIS DISCOVERY LAB HIGHLIGHTS THE IMPORTANCE OF SOIL HEALTH IN ECOLOGICAL RESILIENCE AND ESPECIALLY WATER QUALITY. METHODS OF IMPROVING SOIL HEALTH SUCH AS MULCHING ARE DEMONSTRATED ALONG WITH SOIL SAMPLES THAT GIVE VISITORS EXPERIENTIAL UNDERSTANDING OF WHAT HEALTHY LIVING SOIL LOOKS LIKE. THIS REVEALS THE POSITIVE EFFECTS OF STORMWATER BIOFILTRATION AND STORMWATER INFILTRATION ON THE SITE. THE SOILS DISCOVERY LAB PROVIDES A LEARNING EXPERIENCE THAT DEMONSTRATES THE IMPORTANT FUNCTIONS OF HEALTHY SOIL IN THE STORMWATER TREATMENT HAPPENING AT THE SITE (E.G., PROVIDING A MEDIA FOR VEGETATION, RETAINING POLLUTANTS THAT WOULD OTHERWISE END UP IN TWAIN HARTE CREEK, PROMOTES BIOLOGICAL ACTIVITY THAT BREAKS DOWN SOME POLLUTANTS, DESICCATION OF PATHOGENS ON THE SOIL SURFACE, CAPTURING AND RETAINING CARBON, HEALTHY SOILS MINIMIZE EROSION).

- BENEFITS INCLUDE:**
- HABITAT ENHANCEMENT
 - STORMWATER QUALITY IMPROVEMENT
 - REDUCED FIRE RISK
 - ENHANCED WATER SECURITY
 - ENHANCED SOIL HEALTH

F. ME-WUK TRIBAL STORMWATER GARDEN DISCOVERY LAB:

HANDS-ON EXPERIENCES OF ME-WUK ECOLOGICAL KNOWLEDGE AND SUSTAINABLE TECHNOLOGIES INCLUDING PASSIVE IRRIGATION THROUGH STORMWATER HARVESTING.

THIS STORMWATER GARDEN COLLECTS RUNOFF TO PASSIVELY IRRIGATE IMPORTANT PLANTS TO THE ME-WUK TRIBE. THESE PLANTS ARE ALSO INCLUDED THROUGHOUT THE SITE AND WOVEN INTO INTERPRETIVE AND EXPERIENTIAL LEARNING OPPORTUNITIES. TRIBAL CONSULTANTS WILL ADVISE ON FURTHER EFFORTS TO BRING IMPORTANT TRIBAL KNOWLEDGE AND FORMS OF KNOWING TO THE SITE EXPERIENCE.

- BENEFITS INCLUDE:**
- ME-WUK TRIBAL PLANT KNOWLEDGE
 - ENHANCED FOOD SECURITY
 - STORMWATER QUALITY IMPROVEMENT
 - ENHANCED SOIL HEALTH

G. LIVING BIOSWALE FOOD FENCE DISCOVERY LAB:

HANDS-ON LEARNING THROUGH FORAGING, OBSERVATION AND PLANT USE ACTIVITIES.

PLANTS THAT PROVIDE FOOD TO BOTH ANIMALS AND HUMANS ARE INCLUDED IN THIS AREA WHILE DEMONSTRATING VERTICAL GARDENING AND THE IMPORTANCE OF LOCAL FOOD SECURITY. CONNECTION IS MADE BETWEEN THE BIOFILTRATION OF STORMWATER THROUGH ME-WUK STORMWATER GARDEN DISCOVERY LAB AND THE LOCAL AND HISTORICAL USES OF BIOFILTERED STORMWATER. THIS IS MADE EXPLICIT THROUGH THE FACT THAT THE FOOD FENCE IS IRRIGATED BY FILTERED STORMWATER AT THE ADJACENT ME-WUK TRIBAL STORMWATER GARDEN DISCOVERY LAB.

- BENEFITS INCLUDE:**
- ME-WUK TRIBAL PLANT KNOWLEDGE
 - ENHANCED FOOD SECURITY
 - STORMWATER QUALITY IMPROVEMENT
 - ENHANCED SOIL HEALTH



WATERSHED PROGRESSIVE
 WWW.WATERSHEDPROGRESSIVE.COM
 209.732.0019
 CENTRAL SIERRA OFFICE
 18653 MAIN STREET
 GROVELAND, CALIFORNIA 95321
 OJAI OFFICE
 201 N SIGNAL ST., SUITE 6
 OJAI, CALIFORNIA 93023

Twain Harte Meadows Park
 22945 Meadow Drive, Twain Harte, CA, 95383

DATE: PROJECT NO.

REVISION	DATE
1 60% DRAFT TO CSD	05.31.22
2 60% TO CSD	06.15.22
3 60% TO SWB	07.28.22
4 60% TO SWRCB	08.19.22
5 100% TO CSD	12.14.22
6 100% TO CSD	04.28.23
7 100% TO CSD	06.07.23

DESIGN BY: ABR
 DRAWN BY: DR, JS, MS
 REVIEW BY: RH, NS, JPB

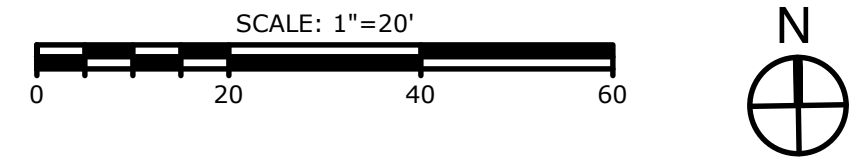
© 2023 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

DISCOVERY LABS KEY PLAN

L8.1

100% CD

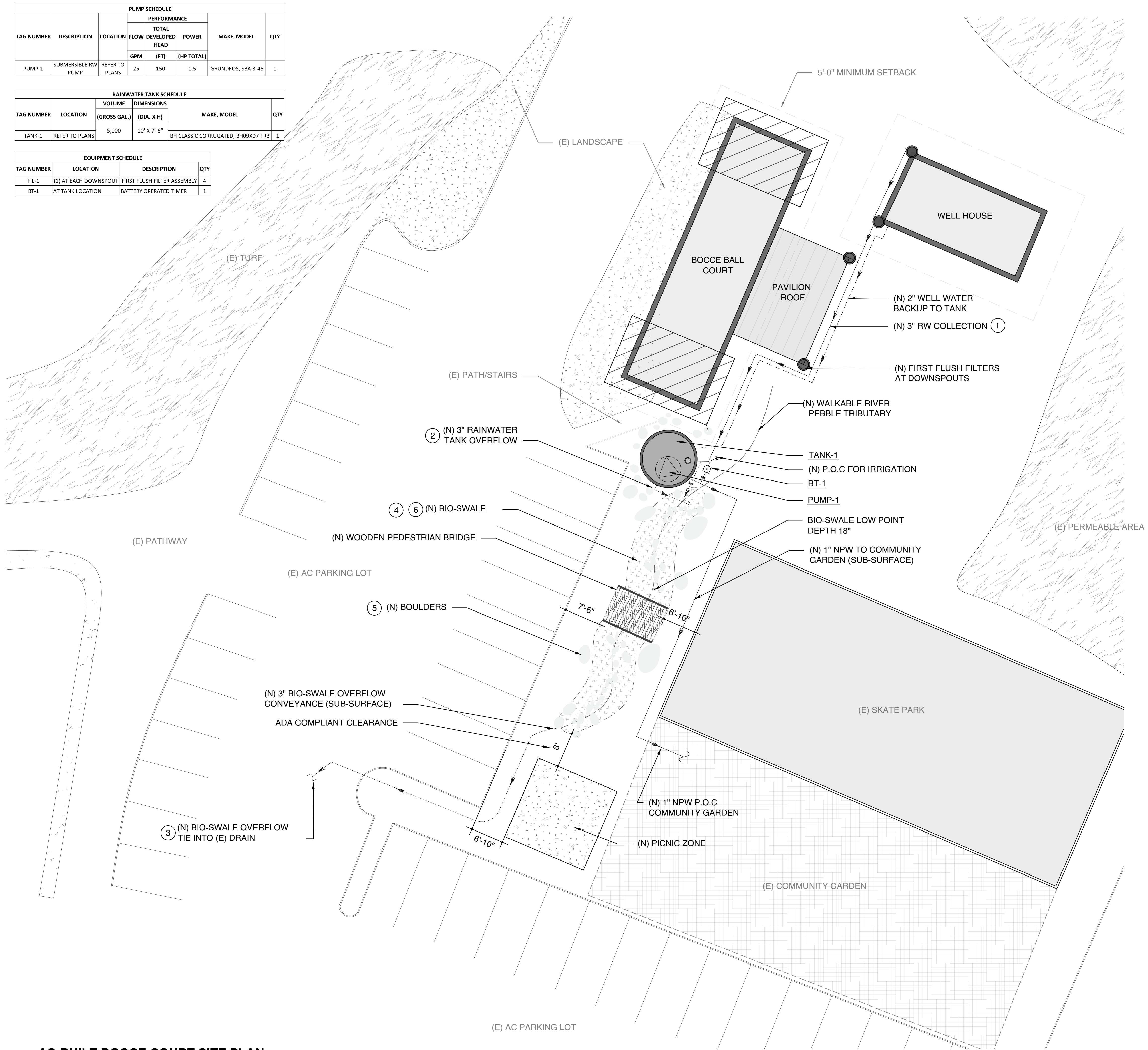
1 DISCOVERY LABS KEY PLAN



PUMP SCHEDULE							
TAG NUMBER	DESCRIPTION	LOCATION	PERFORMANCE			MAKE, MODEL	QTY
			FLOW	TOTAL DEVELOPED HEAD	POWER		
			(GPM)	(FT)	(HP TOTAL)		
PUMP-1	SUBMERSIBLE RW PUMP	REFER TO PLANS	25	150	1.5	GRUNDFOS, SBA 3-45	1

RAINWATER TANK SCHEDULE						
TAG NUMBER	LOCATION	VOLUME	DIMENSIONS		MAKE, MODEL	QTY
		(GROSS GAL.)	(DIA. X H)			
TANK-1	REFER TO PLANS	5,000	10' X 7'-6"	BH CLASSIC CORRUGATED, BH09X07 FRB	1	

EQUIPMENT SCHEDULE			
TAG NUMBER	LOCATION	DESCRIPTION	QTY
FIL-1	(1) AT EACH DOWNSPOUT	FIRST FLUSH FILTER ASSEMBLY	4
BT-1	AT TANK LOCATION	BATTERY OPERATED TIMER	1



PROJECT SUMMARY

AS ONE OF THE FIRST PARTS OF A MULTI PHASED COMMUNITY ENHANCEMENT PROJECT FOR THE TOWN OF TWAIN HARTE, A BOCCIE BALL COURT WAS RECENTLY BUILT NEAR THE EXISTING THCSO WELLHOUSE AND COMMUNITY SKATEPARK WITH A NEW SHADE PAVILION AND SEATING AREA. TO DEMONSTRATE RESPONSIBLE STORMWATER MANAGEMENT PRACTICES, IT WAS DECIDED THAT THE RAINWATER FROM THE 360SQFT SHADE PAVILION AND 400SQFT WELLHOUSE WOULD BOTH BE DIRECTED INTO A 4,333 GALLON CORRUGATED STEEL RAINWATER CISTERN BY ATTACHING CONVEYANCE PIPES TO THE DOWNSPOUTS OF EACH ROOF. FIRST FLUSH DEVICES WERE INSTALLED AT EACH DOWNSPOUT TO PREFILTER THE WATER BEFORE IT ENTERS THE CISTERN. THE RAINWATER CISTERN CONTAINS A SUBMERSIBLE PUMP WHICH PRESSURIZES THE WATER FOR USE IN THE NEARBY COMMUNITY GARDEN AND SURROUNDING DRIP IRRIGATION. A BIO-SWALE WAS BUILT BELOW THE CISTERN TO CONTROL AND INFILTRATE THE OVERFLOW OF RAINWATER WHEN THE TANK BECOMES FULL. AT THE END OF THE BIO-SWALE, WHICH EMULATES A SMALL CREEK BED, THERE IS A DRAIN INLET LEADING TO THE EXISTING UNDERGROUND STORM DRAIN TO PREVENT THE BIO-SWALE FROM OVERFLOWING AND CAUSING FLOODING ISSUES. DURING A COMMUNITY VOLUNTEER DAY, THE BIO-SWALE AND AREAS SURROUNDING THE SHADE PAVILION AND CISTERN WERE PLANTED WITH CALIFORNIA NATIVE PLANTS AND TREES TO CREATE MORE SHADE, ENHANCE AESTHETICS, AND BUILD SOIL HEALTH. COMPOST AND WOOD CHIP MULCH WERE ALSO ADDED TO FURTHER ENHANCE SOIL HEALTH AND MOISTURE RETENTION. AN EDUCATIONAL WORKSHOP WAS CONDUCTED AND AN INTERPRETIVE SIGN WAS INSTALLED TO EXPLAIN THE BENEFITS OF RAINWATER HARVESTING AND PROPER STORMWATER MANAGEMENT. A UNIQUE ADDITION TO THIS RAINWATER COLLECTION SYSTEM IS THE ADDITION OF BACKFLUSH WATER FROM THE WELLHOUSE. AS ROUTINE MAINTENANCE, THE THCSO BACKFLUSHES THE WELL LINES TO REMOVE SEDIMENT, THIS WATER IS RELATIVELY CLEAN, CONTAINING A SMALL AMOUNT OF SEDIMENT BUT COMPARABLE IN QUALITY TO THE RAINWATER COLLECTED FROM THE ROOF AND WAS PREVIOUSLY BEING FLUSHED DOWN THE DRAIN IN THE PROCESS. IT NOW ACTS AS ADDITIONAL INPUT INTO THE CISTERN AND IS USED AS NON-POTABLE IRRIGATION DURING TIMES WHEN THE RAINWATER SUPPLY IN THE TANK IS EXHAUSTED.

SHEET NOTES

- RAINWATER COLLECTED FROM BOCCIE BALL PAVILION STRUCTURE, WELL HOUSE AND CONVEYED TO RAINWATER TANK.
- RAINWATER TANK OVERFLOW TO BE DIVERTED SUBSURFACE INTO PROPOSED BIO-SWALE.
- BIO-SWALE OVERFLOW TO BE CONVEYED SUBSURFACE AND TIE INTO EXISTING DRAIN.
- BIO-SWALE WILL BE PROVIDED WITH NATIVE, CLIMATE APPROPRIATE PLANTINGS.
- ALL BOULDER PLACEMENT SHALL BE COORDINATED AND DETERMINED IN THE FIELD BY PROJECT LEAD.
- ALL GRADING FOR BIO-SWALE SHALL BE COORDINATED AND DETERMINED IN THE FIELD BY PROJECT LEAD.

LEGEND

- PARCEL BOUNDARY
- MINIMUM SETBACK LINE
- CONTOURS
- RAINWATER (RW) CONVEYANCE
- PUMPED CONVEYANCE WATER
- ⊙ PUMP
- ➔ DIRECTION OF FLOW
- PIPE CONTINUATION
- ▭ EXISTING BUILDING
- RAINWATER TANK
- ⊛ BIO-SWALE
- FILTRATION EQUIPMENT
- ⊞ BATTERY OPERATED CONTROLLER
- BOULDERS
- P.O.C POINT OF CONNECTION
- E EXISTING
- N NEW



**TWAIN HARTE BOCCIE BALL COURT
 STORMWATER ENHANCEMENT PROJECT**

DATE:	05.24.21
PROJECT NO.	---
ISSUANCE	DATE
1 AS-BUILT	9.30.21
2	
3	
4	
5	
6	
DESIGN BY:	JW, MS
DRAWN BY:	MS
REVIEW BY:	RH

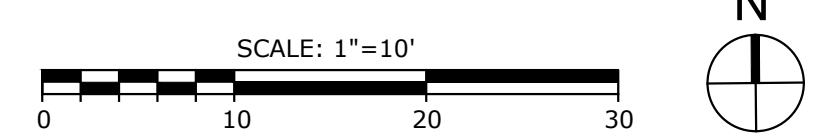
© 2020 Watershed Progressive. The design ideas and plans represented by these documents are the property of Watershed Progressive. Use or copy is permitted by contract only. The use or revisions of these ideas or plans is prohibited without the written permission of Watershed Progressive.

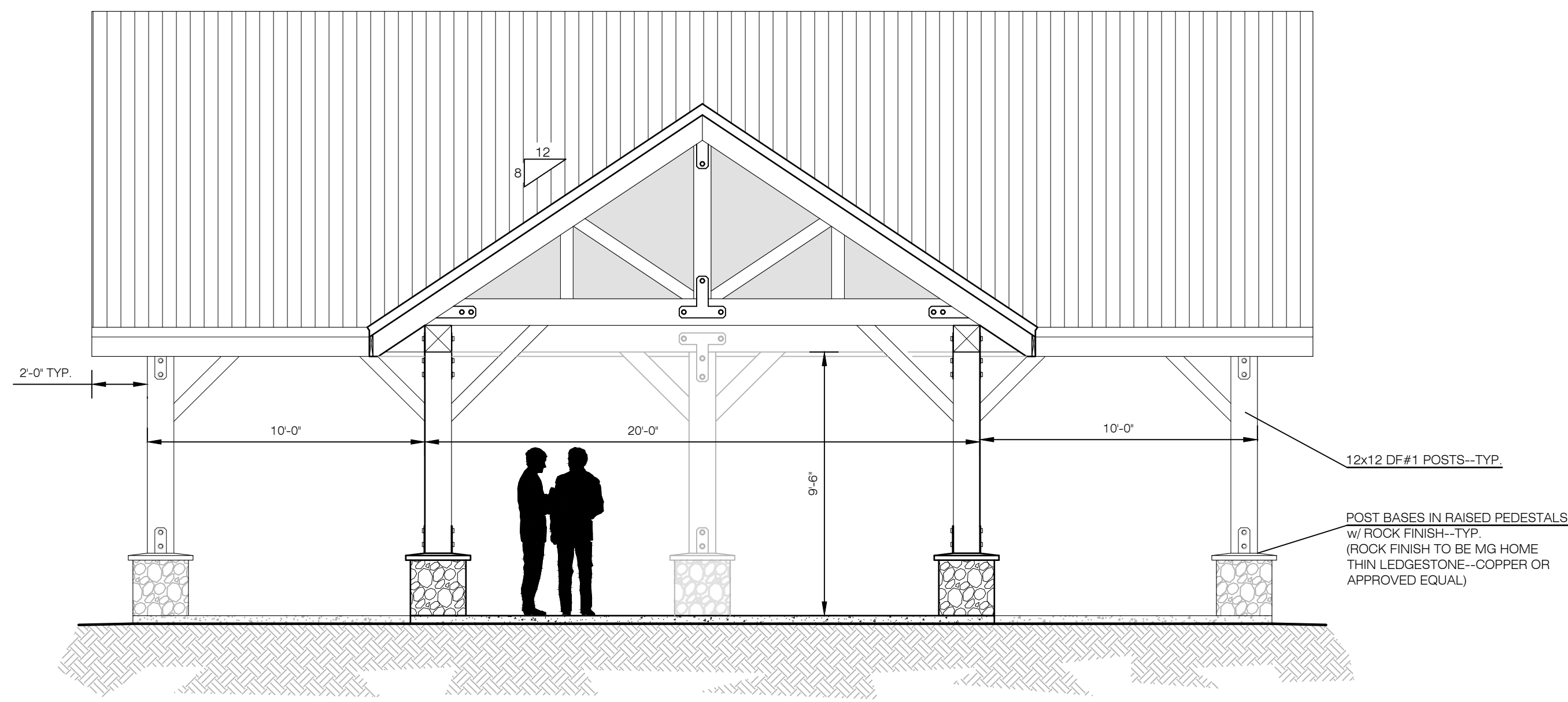
**AS-BUILT
 BOCCIE COURT
 SITE PLAN**

L9.1

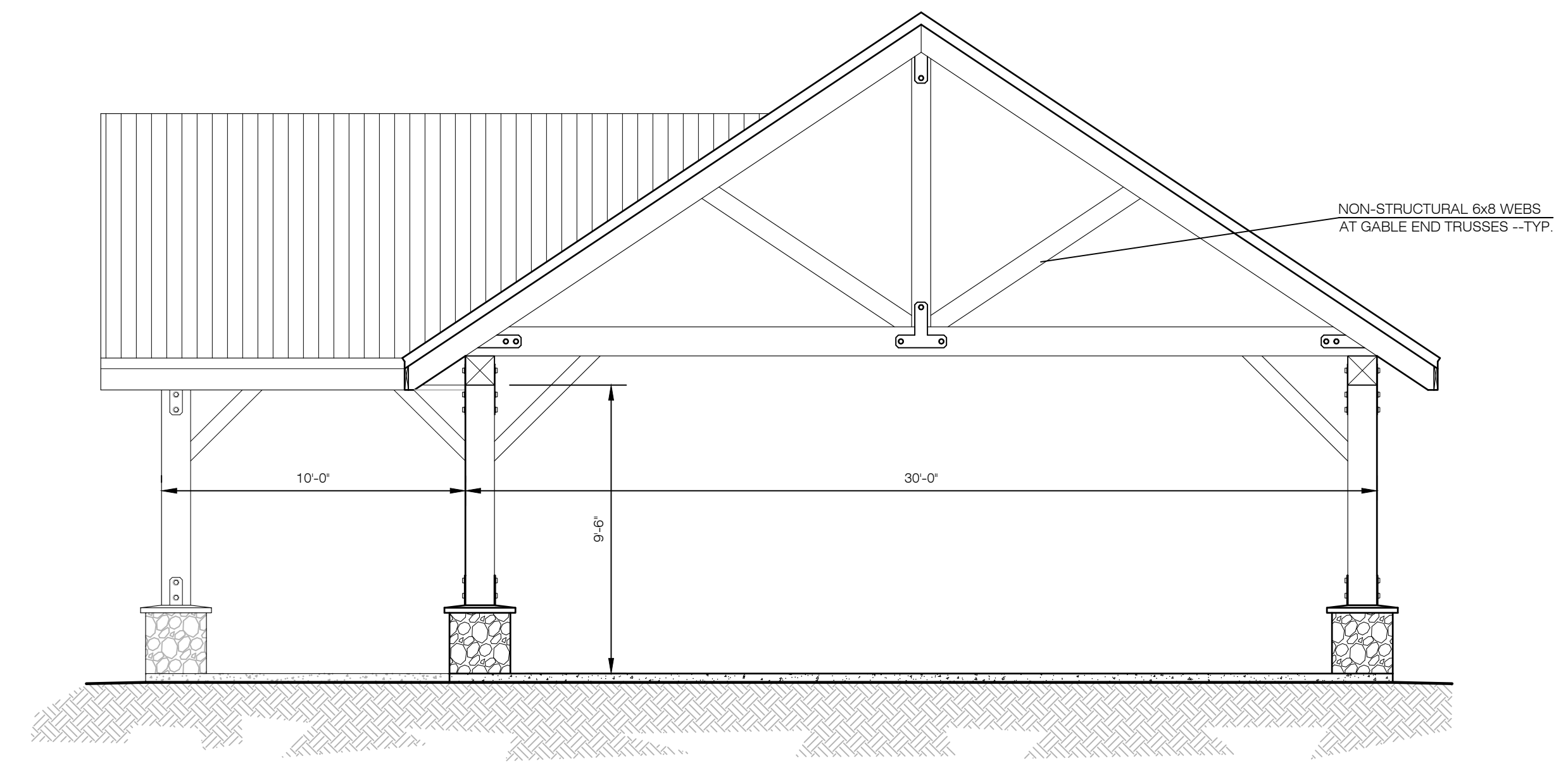
AS-BUILT RECORD
 NOT FOR CONSTRUCTION

1 AS-BUILT BOCCIE COURT SITE PLAN

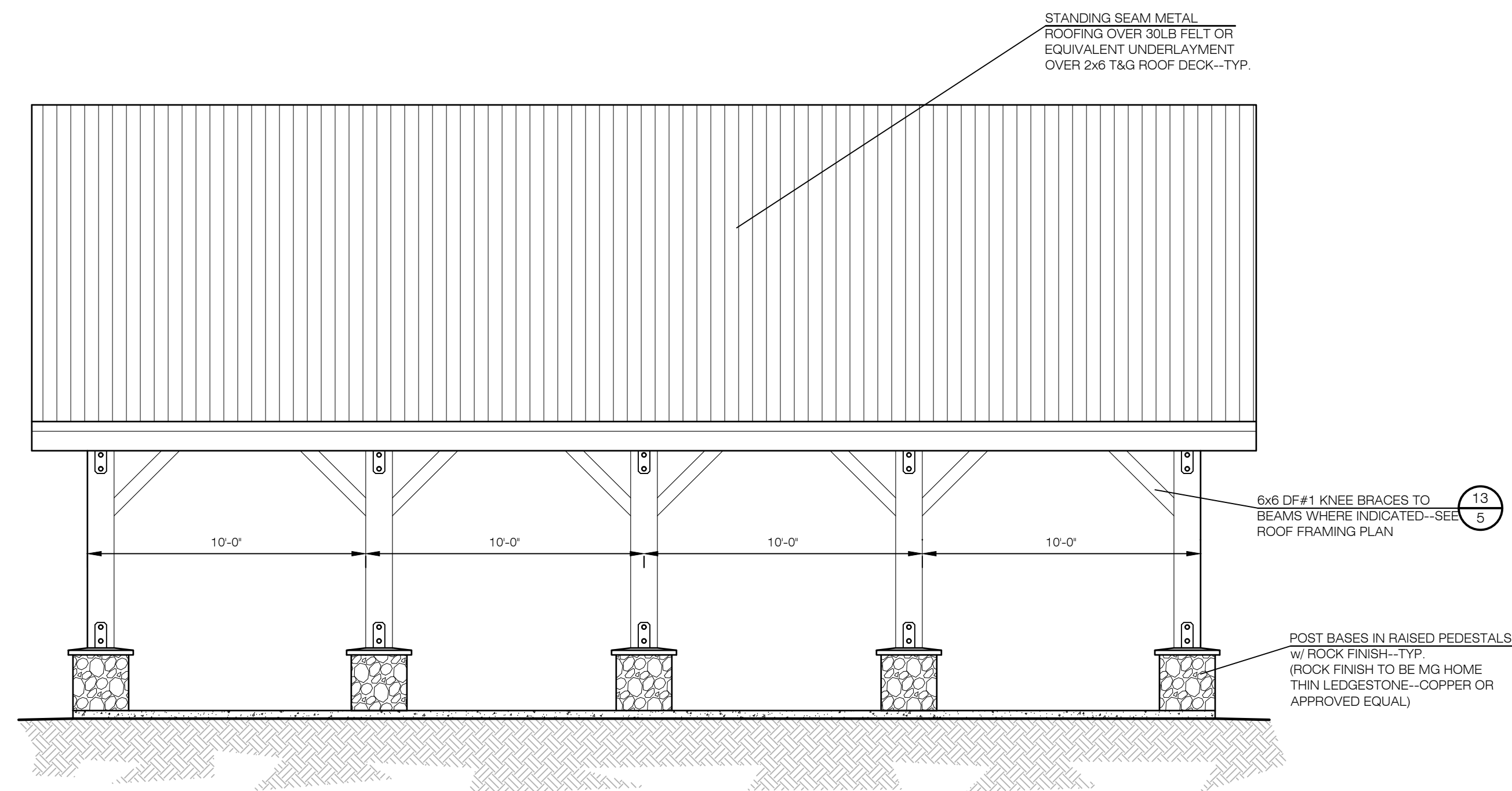




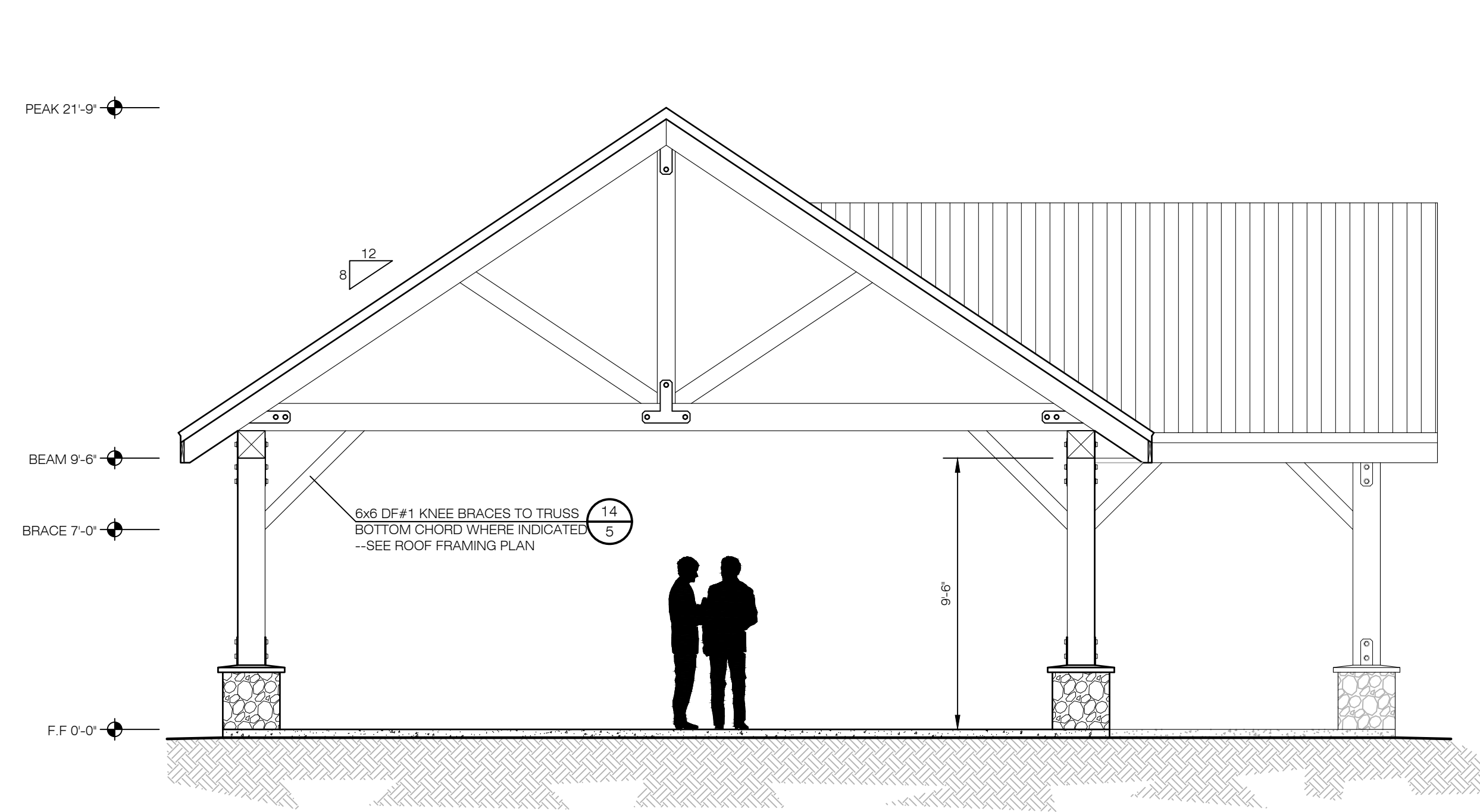
FRONT ELEVATION VIEW



RIGHT ELEVATION VIEW



REAR ELEVATION VIEW



LEFT ELEVATION VIEW

REVISIONS:

rev	date	description

OWNER INFORMATION:
 T.H.C.S.D.
 P.O.Box 649
 Twain Harte CA 95383
 Tom Trott G.M.
 (209) 586-3172

SITE INFORMATION:
 Meadow Drive
 Twain Harte CA 95383
 APN# 049-132-019

PROJECT INFORMATION:

A Pavilion Plan for:
Twain Harte Comm. Serv. Dist.
Meadow Drive
Twain Harte CA 95383

ENGINEER OF RECORD:



These drawings and specifications are the property of the engineer and shall not be used on any other work except by agreement with the engineer. Written dimensions shall take precedence over scaled dimensions and shall be verified on site. Any discrepancy shall be brought to the notice of the engineer prior to commencement of any work.

ISSUE DATE: 6-6-23

DRAWN BY: KTQ

CHECKED BY: ZPG

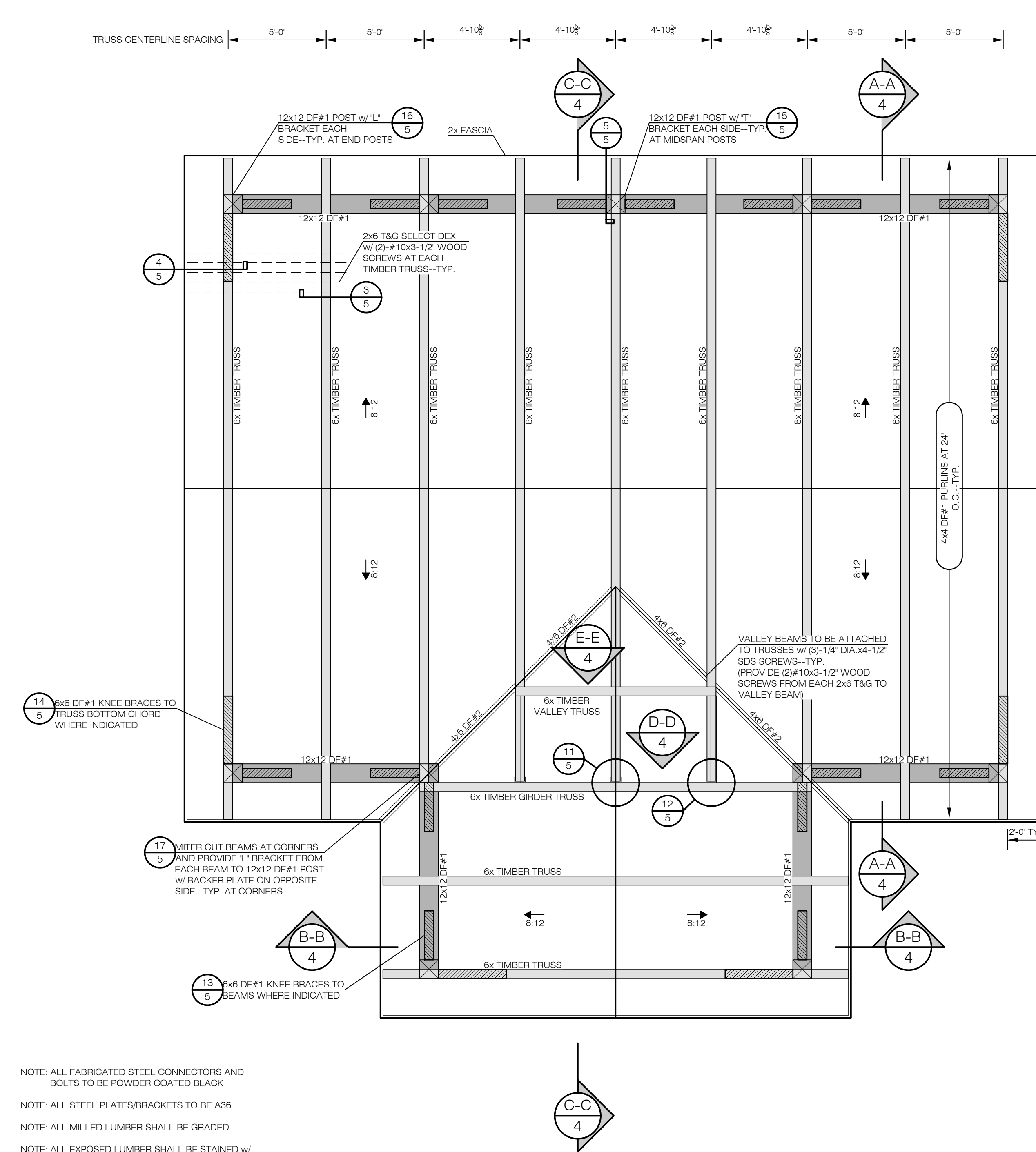
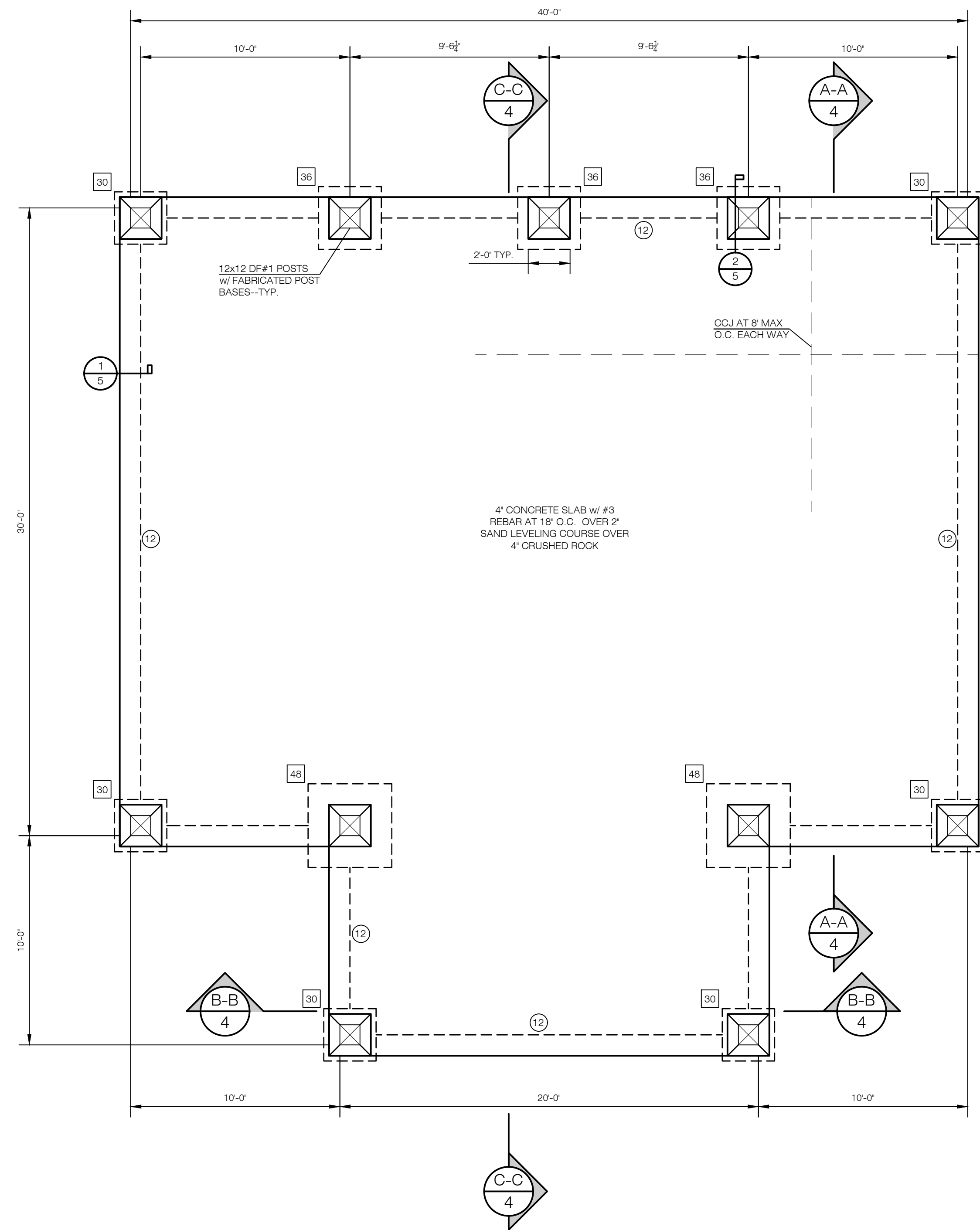
SCALE: 1/4"=1'-0"

DRAWING: pavilion

PROJECT NO: 22-07.11

SHEET: 2 OF 5

2 OF 5



NOTE: ALL FABRICATED STEEL CONNECTORS AND BOLTS TO BE POWDER COATED BLACK

NOTE: ALL STEEL PLATES, BRACKETS TO BE A36

NOTE: ALL MILLED LUMBER SHALL BE GRADED

NOTE: ALL EXPOSED LUMBER SHALL BE STAINED w/ ARMSTRONG-CLARK DECK AND WOOD STAIN--ESPRESSO (OR APPROVED EQUAL)

FOUNDATION PLAN

ROOF FRAMING PLAN

FOOTING SCHEDULE

12 1'-0" WIDE x 1'-0" DEEP THICKENED EDGE WITH #4 CONTINUOUS AT BOTTOM

PIER PAD SCHEDULE

- 30 2'-6" SQUARE x 1'-6" DEEP PIER PAD WITH (3)-#4 EACH WAY AT TOP AND BOTTOM
- 36 3'-0" SQUARE x 1'-6" DEEP PIER PAD WITH (4)-#4 EACH WAY AT TOP AND BOTTOM
- 48 4'-0" SQUARE x 1'-6" DEEP PIER PAD WITH (5)-#4 EACH WAY AT TOP AND BOTTOM

REVISIONS:

rev	date	description

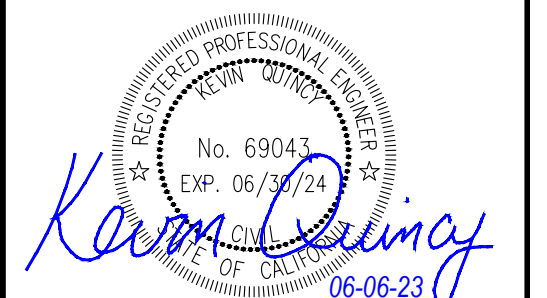
OWNER INFORMATION:
T.H.C.S.D.
P.O. Box 649
Twain Harte CA 95383
Tom Trott G.M.
(209) 586-3172

SITE INFORMATION:
Meadow Drive
Twain Harte CA 95383
APN# 049-132-019

PROJECT INFORMATION:

A Pavilion Plan for:
Twain Harte Comm. Serv. Dist.
Meadow Drive
Twain Harte CA 95383

ENGINEER OF RECORD:



These drawings and specifications are the property of the engineer and shall not be used on any other work except by agreement with the engineer. Written dimensions shall take precedence over scaled dimensions and shall be verified on site. Any discrepancy shall be brought to the notice of the engineer prior to commencement of any work.

ISSUE DATE: 6-6-23

DRAWN BY: KTQ

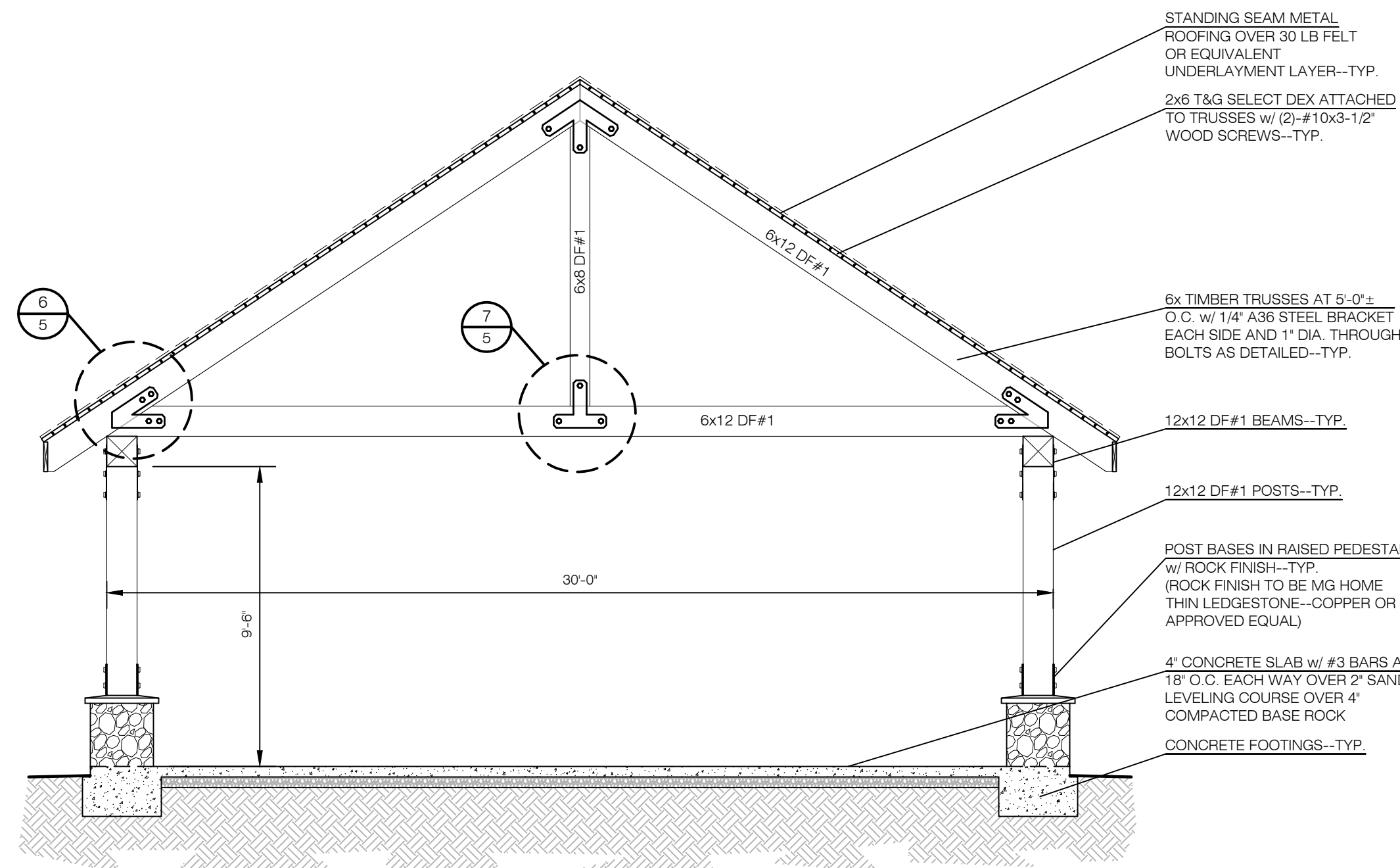
CHECKED BY: ZPG

SCALE: 1/4"=1'-0"

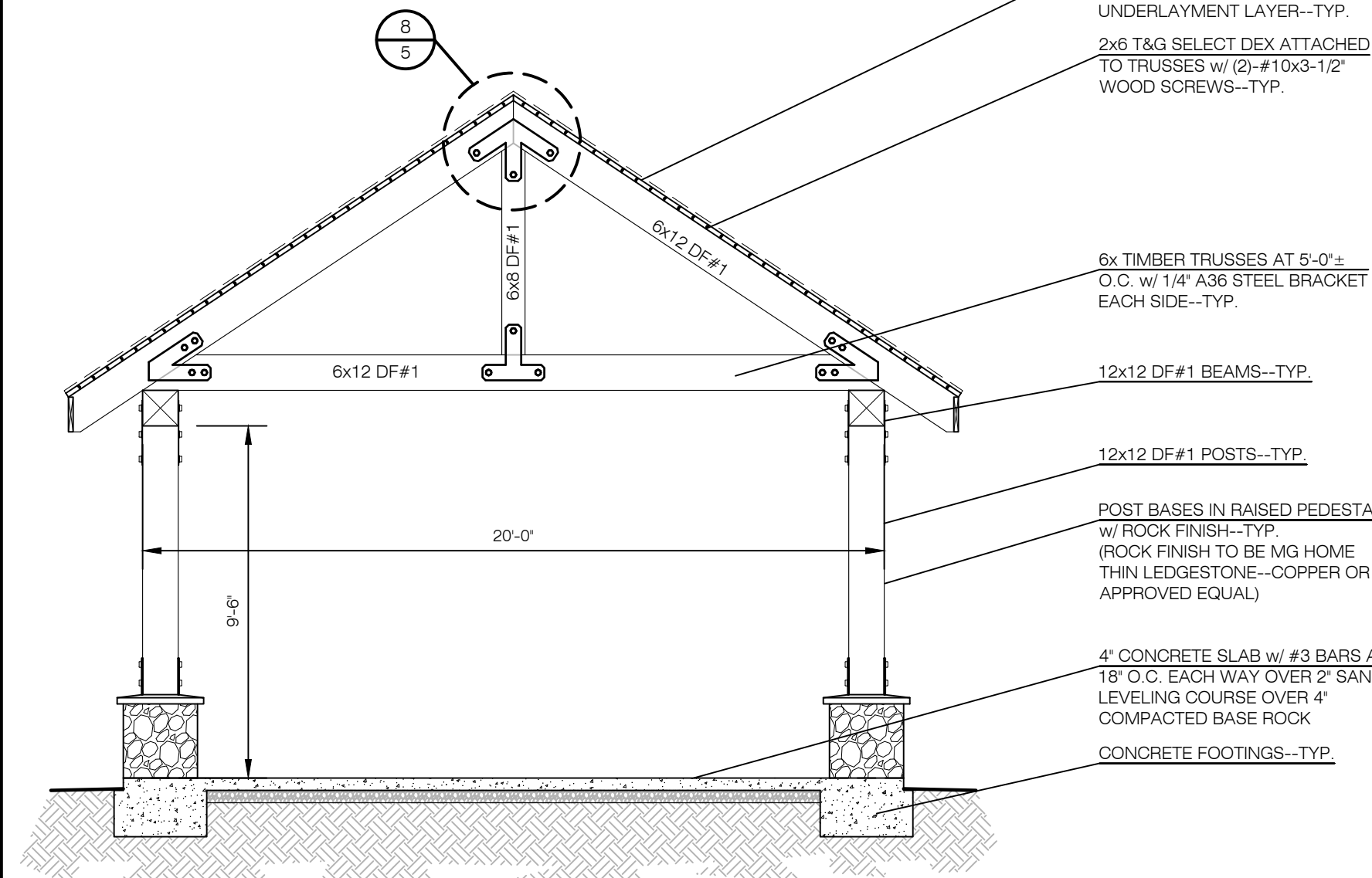
DRAWING: pavilion

PROJECT NO: 22-07.11

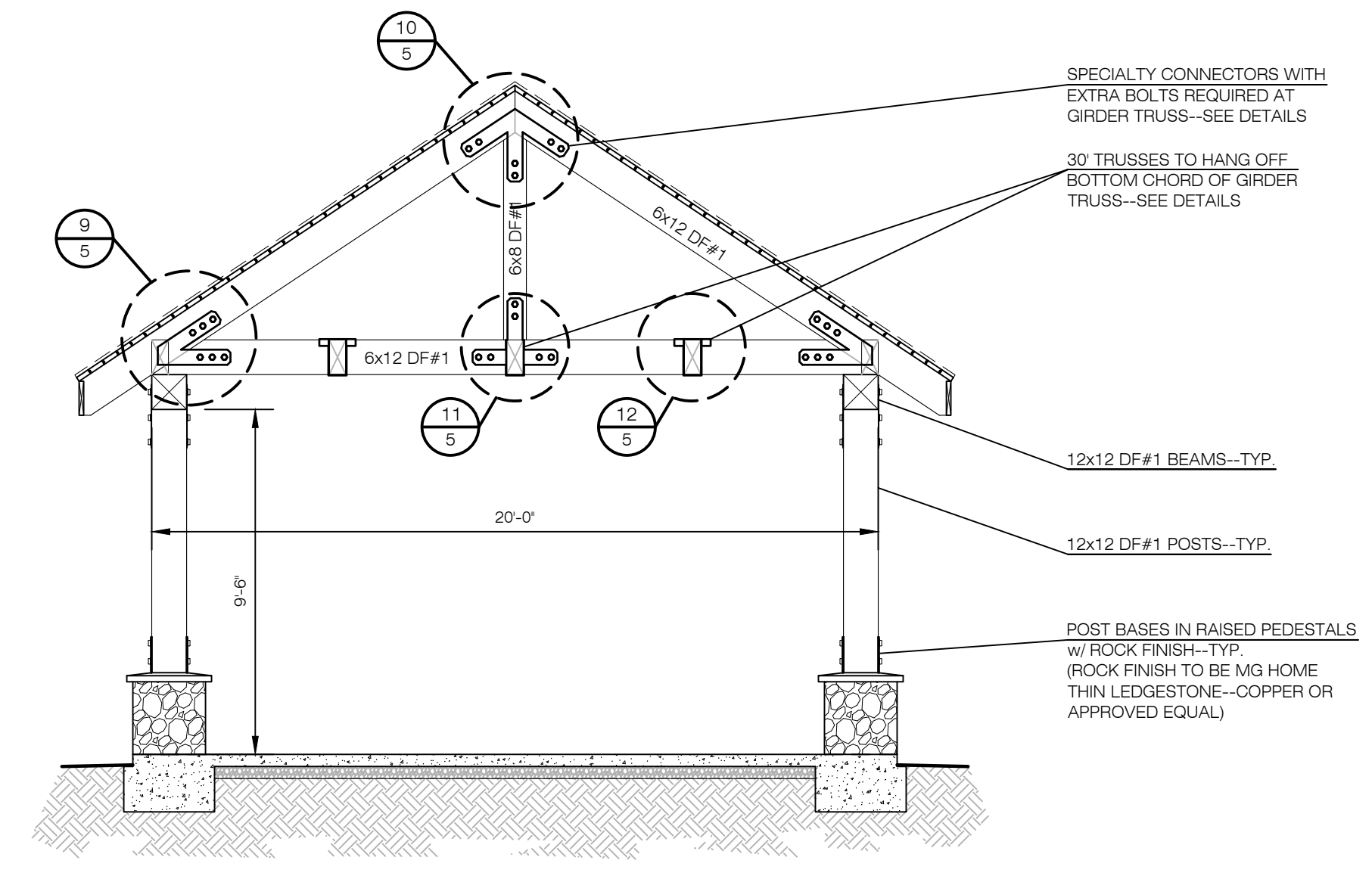
SHEET: 3 OF 5



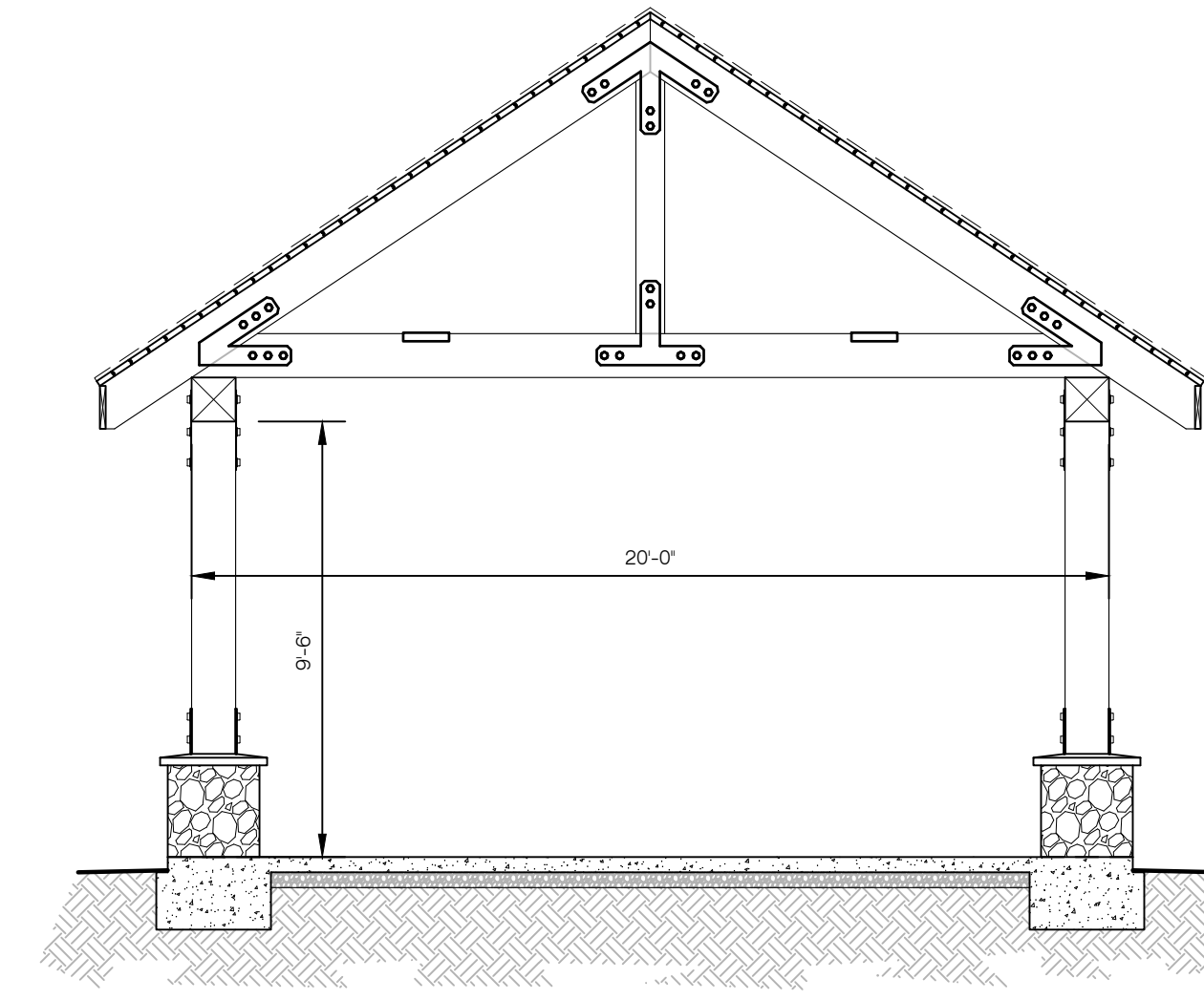
SCALE: 1/4"=1'-0"



SCALE: 1/4"=1'-0"



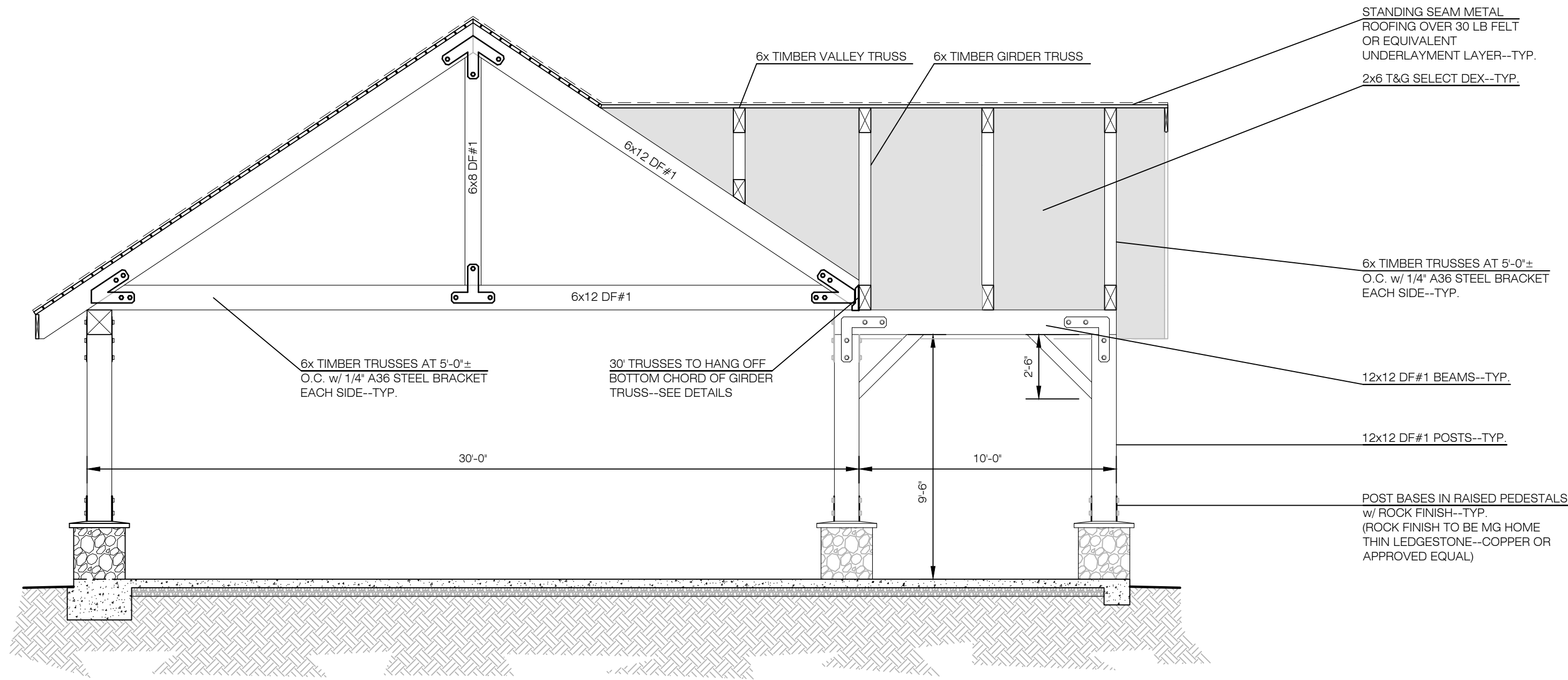
SIDE VIEW WITH TIMBER TRUSSES ATTACHMENT



SIDE VIEW OPPOSITE OF TIMBER TRUSSES ATTACHMENT

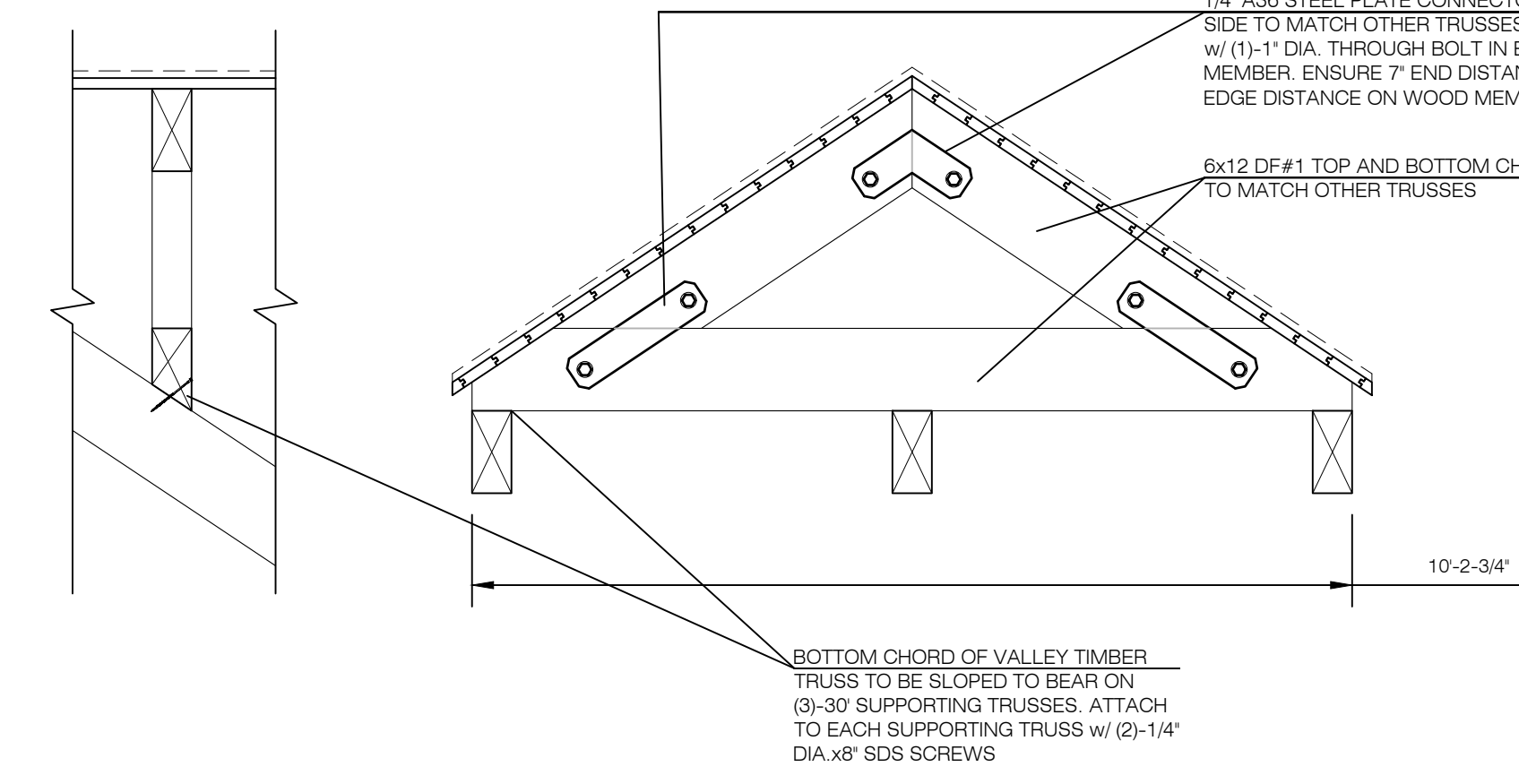
SCALE: 1/4"=1'-0"

NOTE: ALL FABRICATED STEEL CONNECTORS AND BOLTS TO BE POWDER COATED BLACK
 NOTE: ALL STEEL PLATES/BRACKETS TO BE A36
 NOTE: ALL MILLED LUMBER SHALL BE GRADED
 NOTE: ALL EXPOSED LUMBER SHALL BE STAINED W/ ARMSTRONG-CLARK DECK AND WOOD STAIN-ESPRESSO (OR APPROVED EQUAL)



SCALE: 1/4"=1'-0"

CROSS SECTION D-D (20' GIRDER TRUSS)



SCALE: 1/2"=1'-0"

CROSS SECTION C-C

CROSS SECTION E-E (VALLEY TRUSS)

REVISIONS:

rev	date	description

OWNER INFORMATION:

T.H.C.S.D.
 P.O. Box 649
 Twain Harte CA 95383
 Tom Trott G.M.
 (209) 586-3172

SITE INFORMATION:

Meadow Drive
 Twain Harte CA 95383
 APN# 049-132-019

PROJECT INFORMATION:

Twain Harte Comm. Serv. Dist.
Meadow Drive
Twain Harte CA 95383

ENGINEER OF RECORD:

Karim Durrani
 No. 69043
 Exp. 06/30/24
 06-06-23

ISSUE DATE: 6-6-23

DRAWN BY: KTG

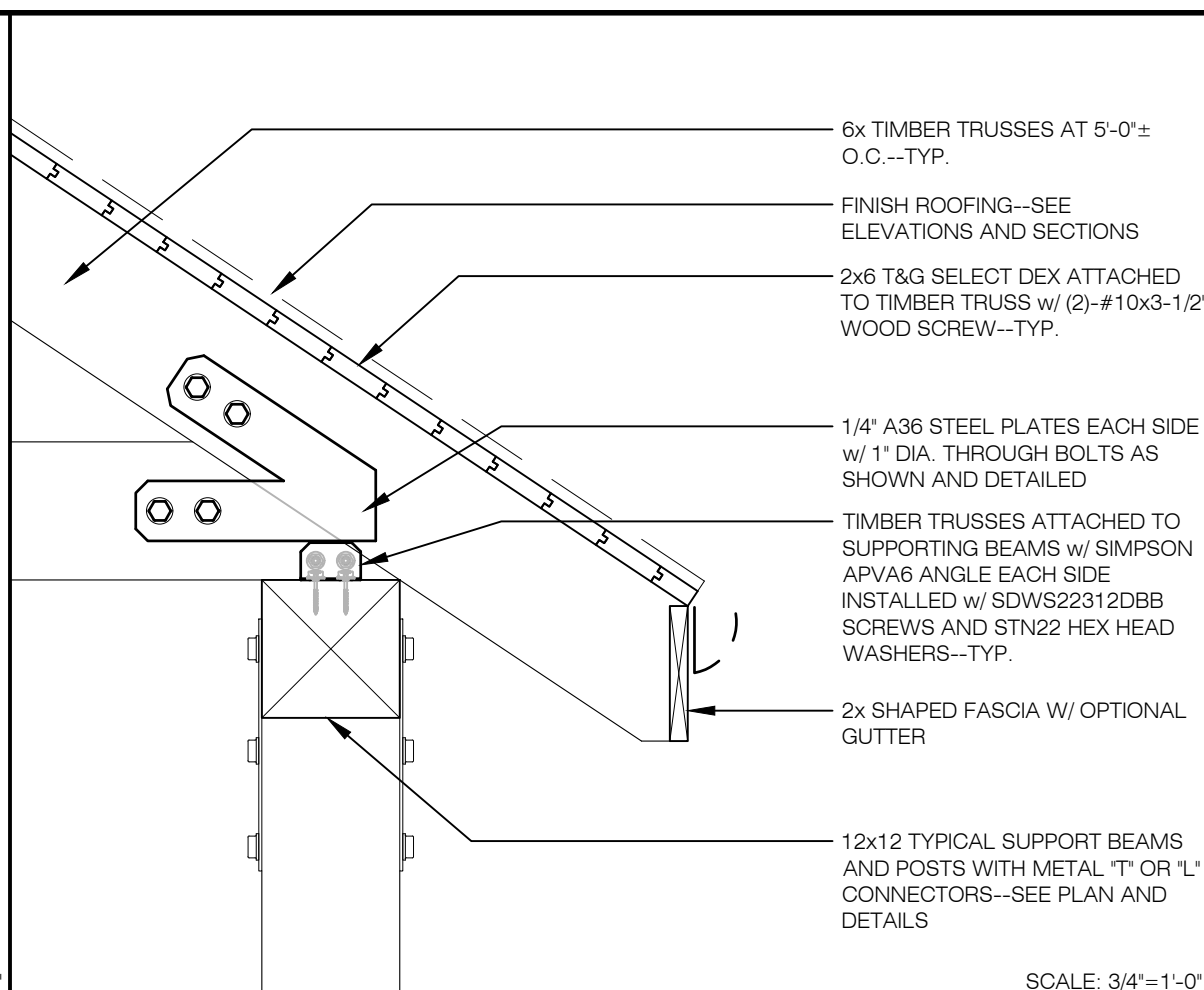
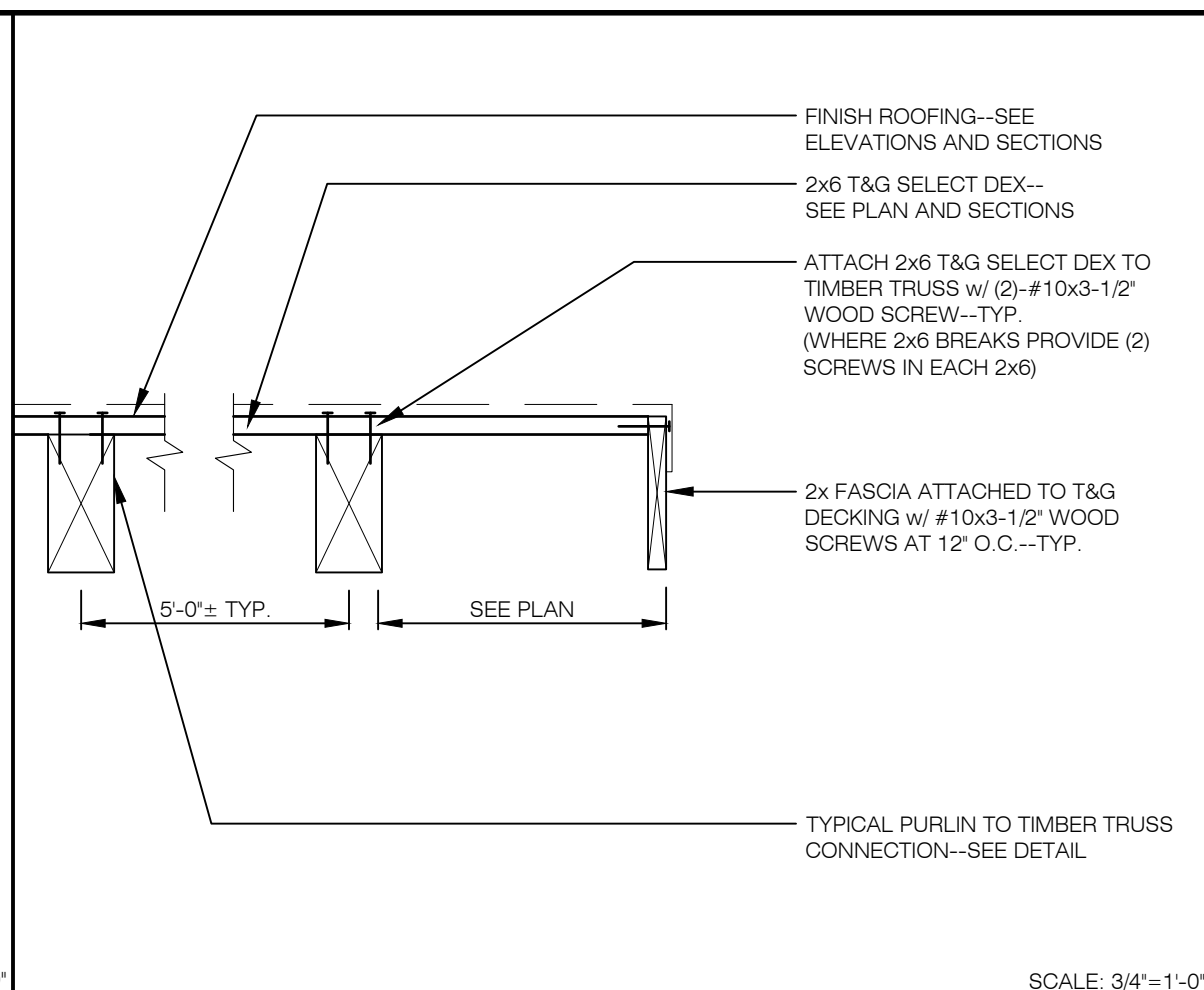
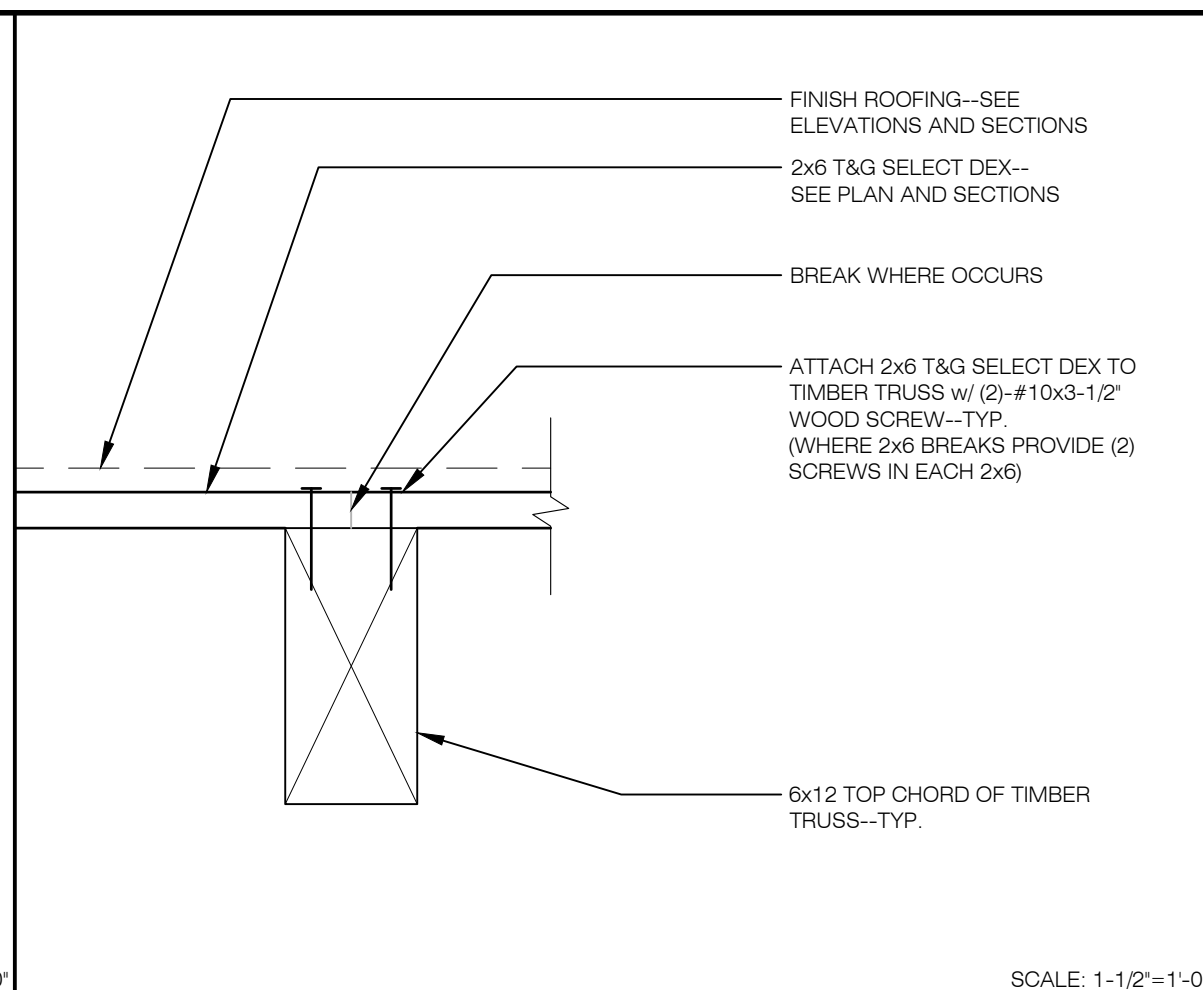
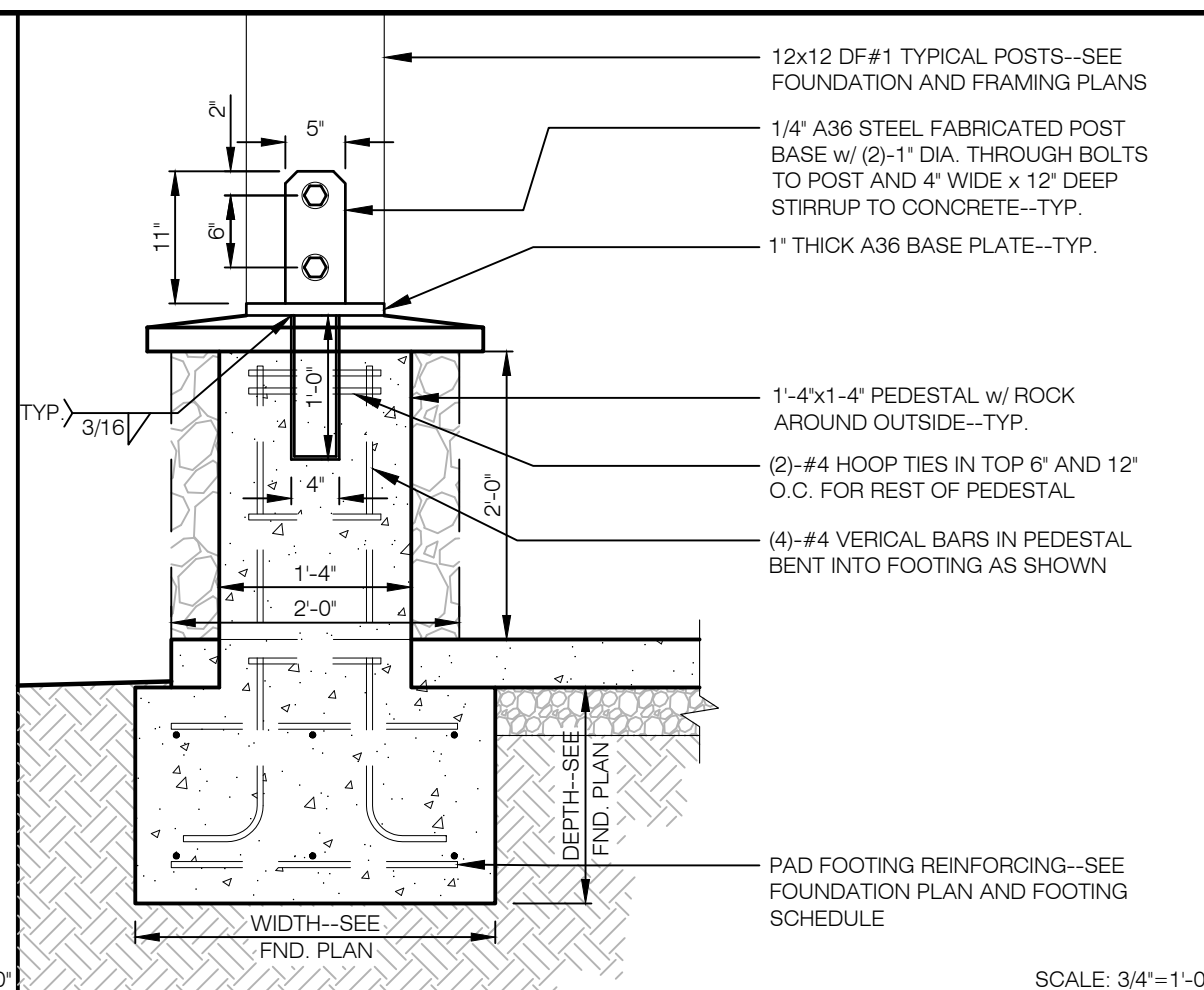
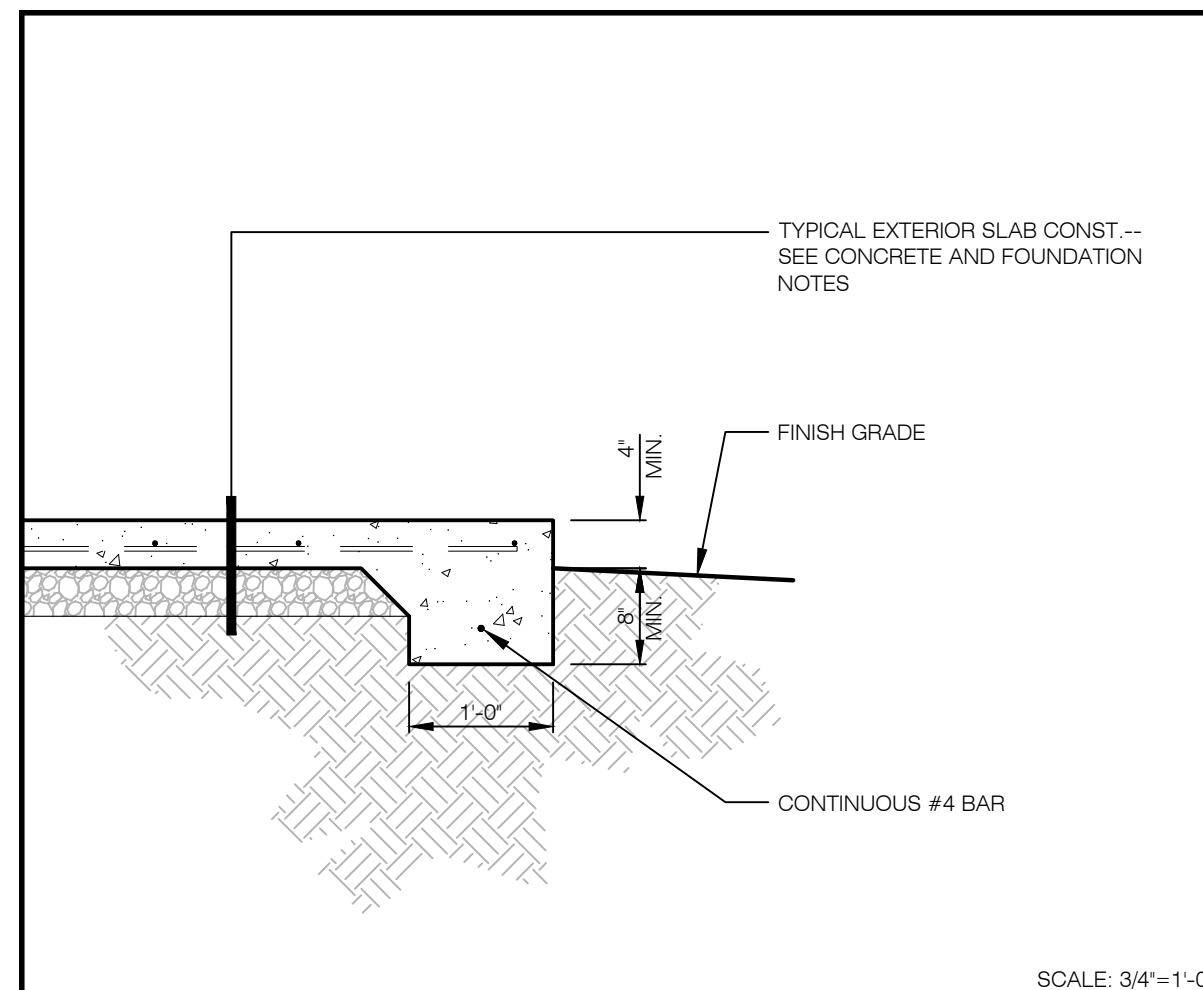
CHECKED BY: ZPG

SCALE: 1/4"=1'-0"

DRAWING: pavilion

PROJECT NO: 22-07.11

SHEET: 4 OF 5



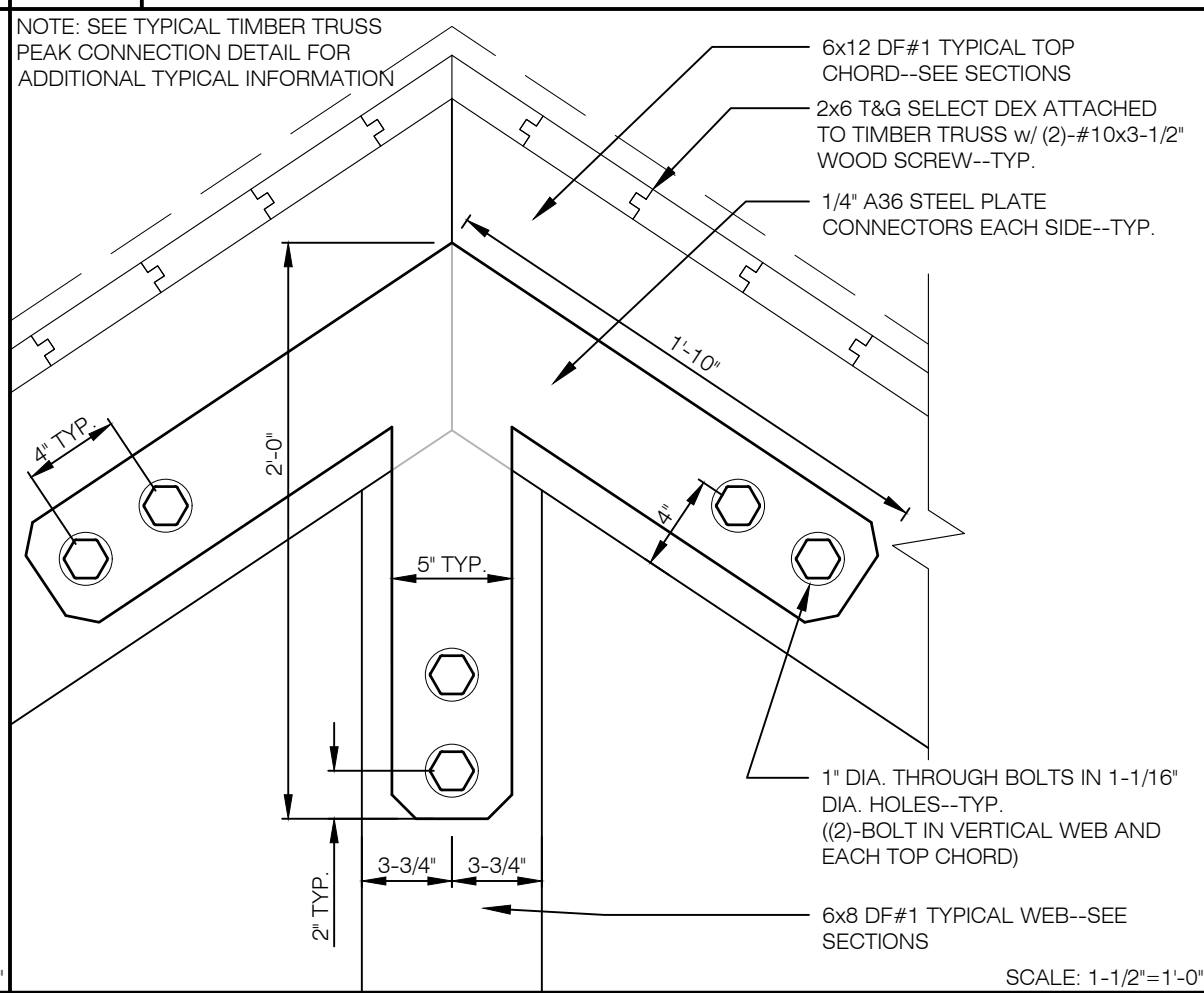
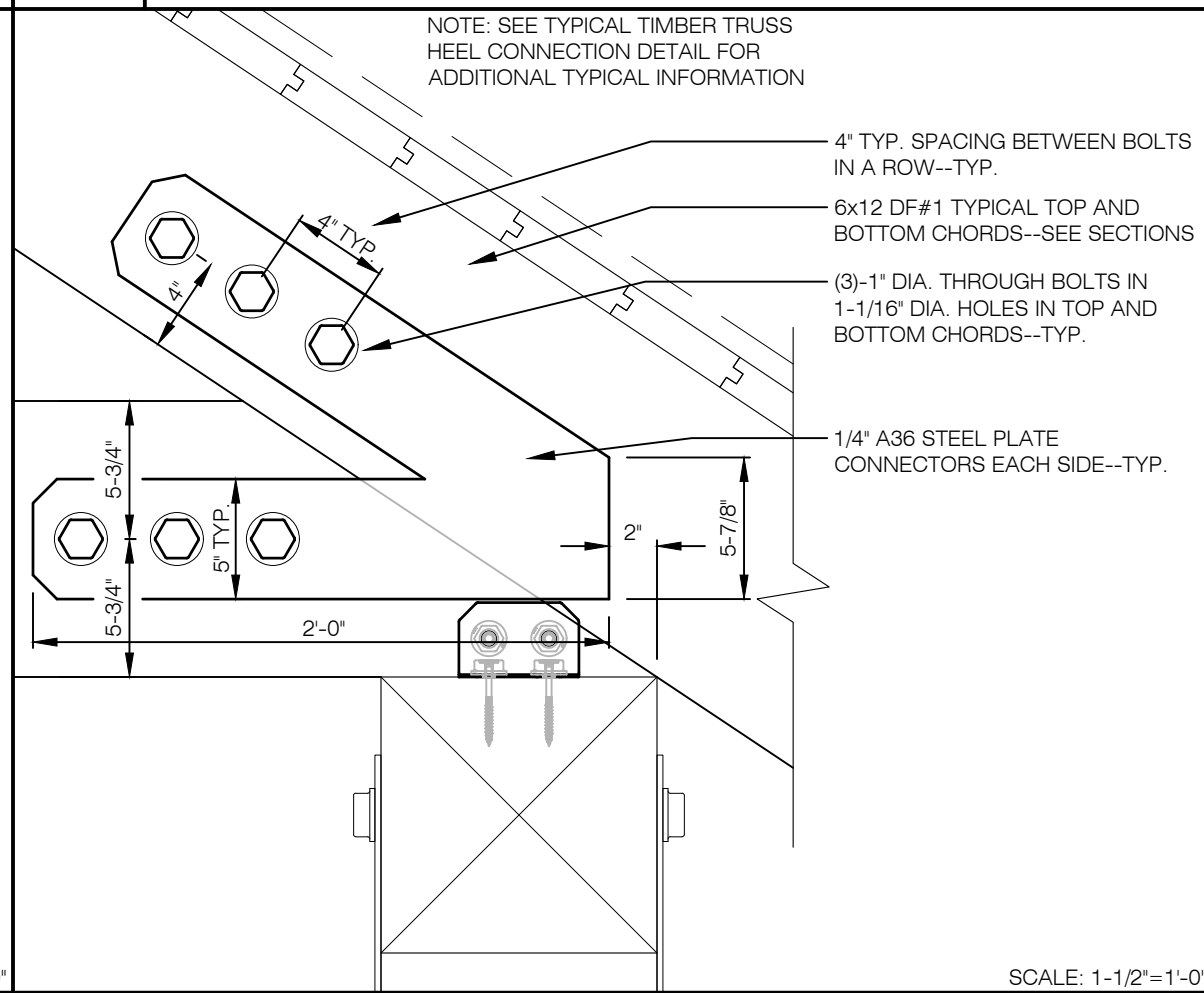
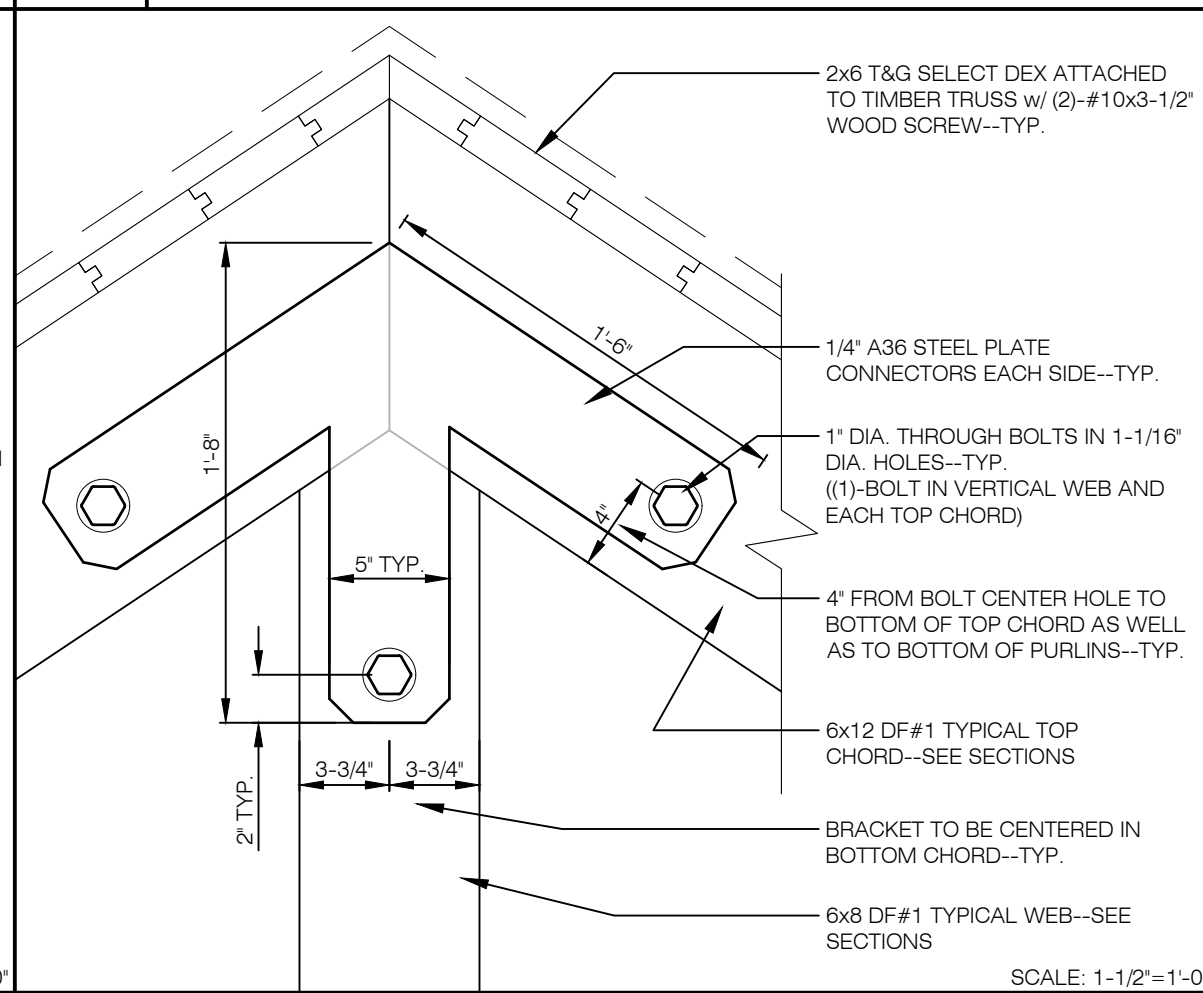
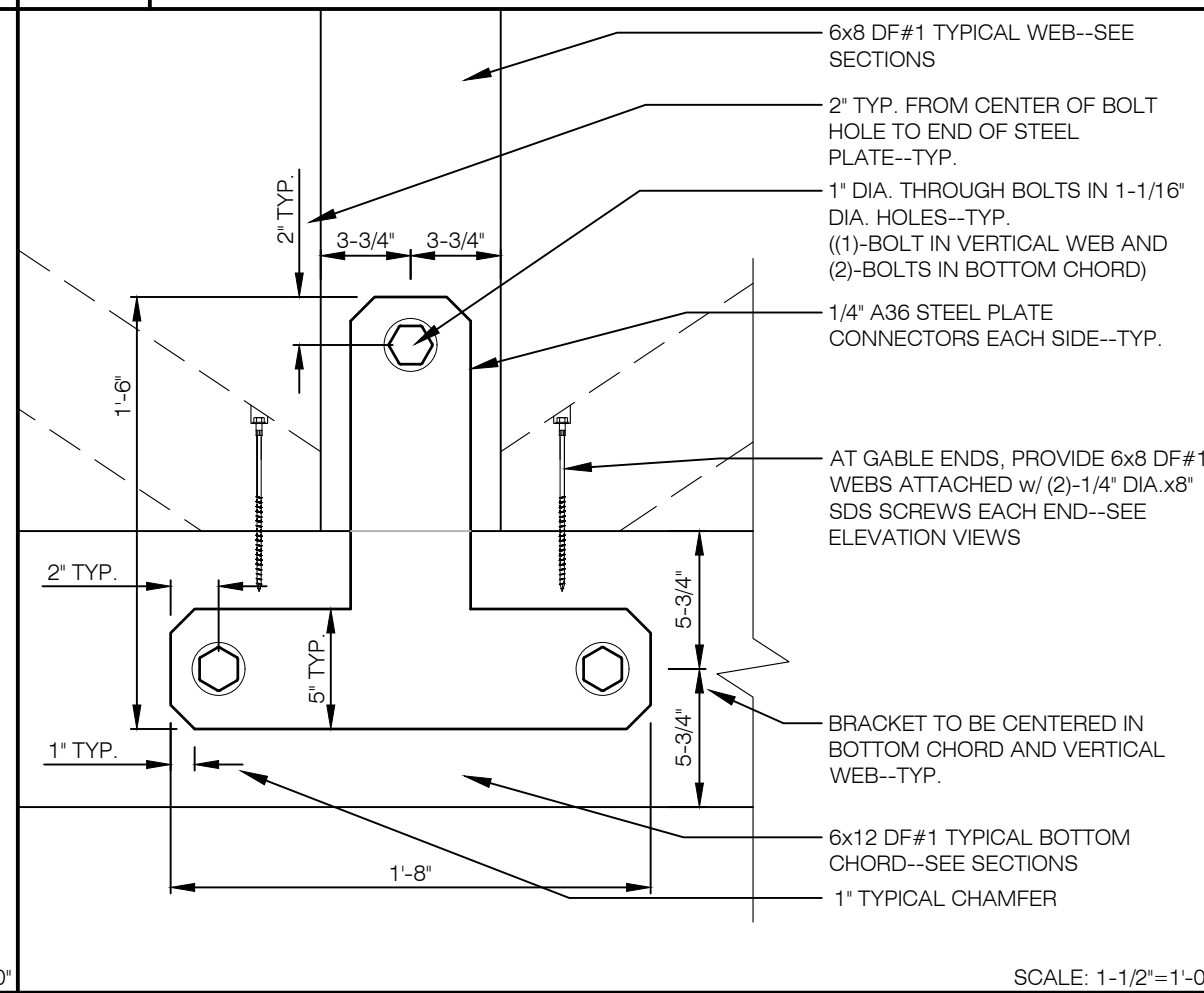
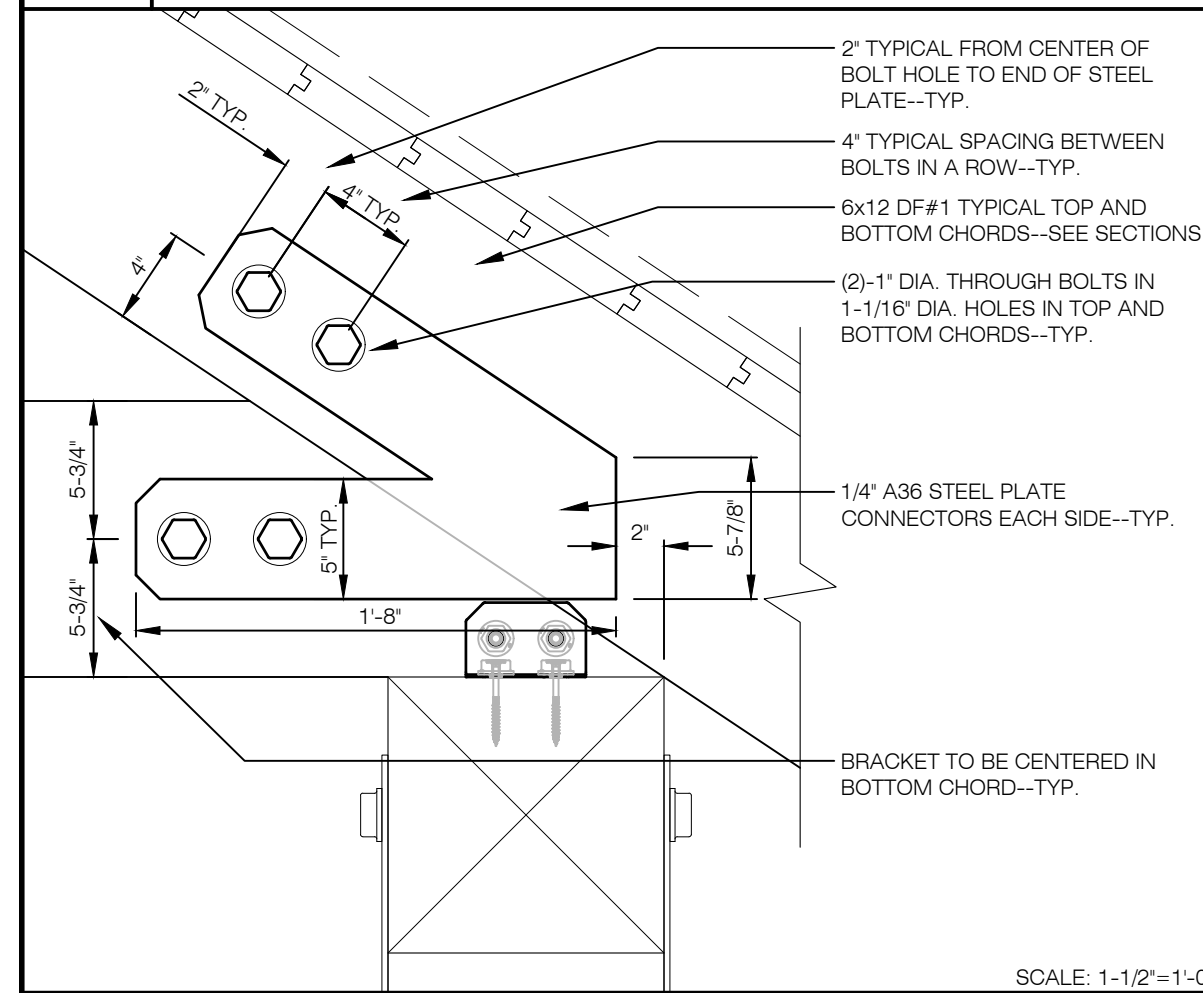
1 TYP. THICKENED SLAB EDGE

2 PAVILION FOOTING

3 T&G ATTACHMENT TO TRUSS

4 GABLE END OVERHANG

5 TYP. TIMBER TRUSS AT EAVE



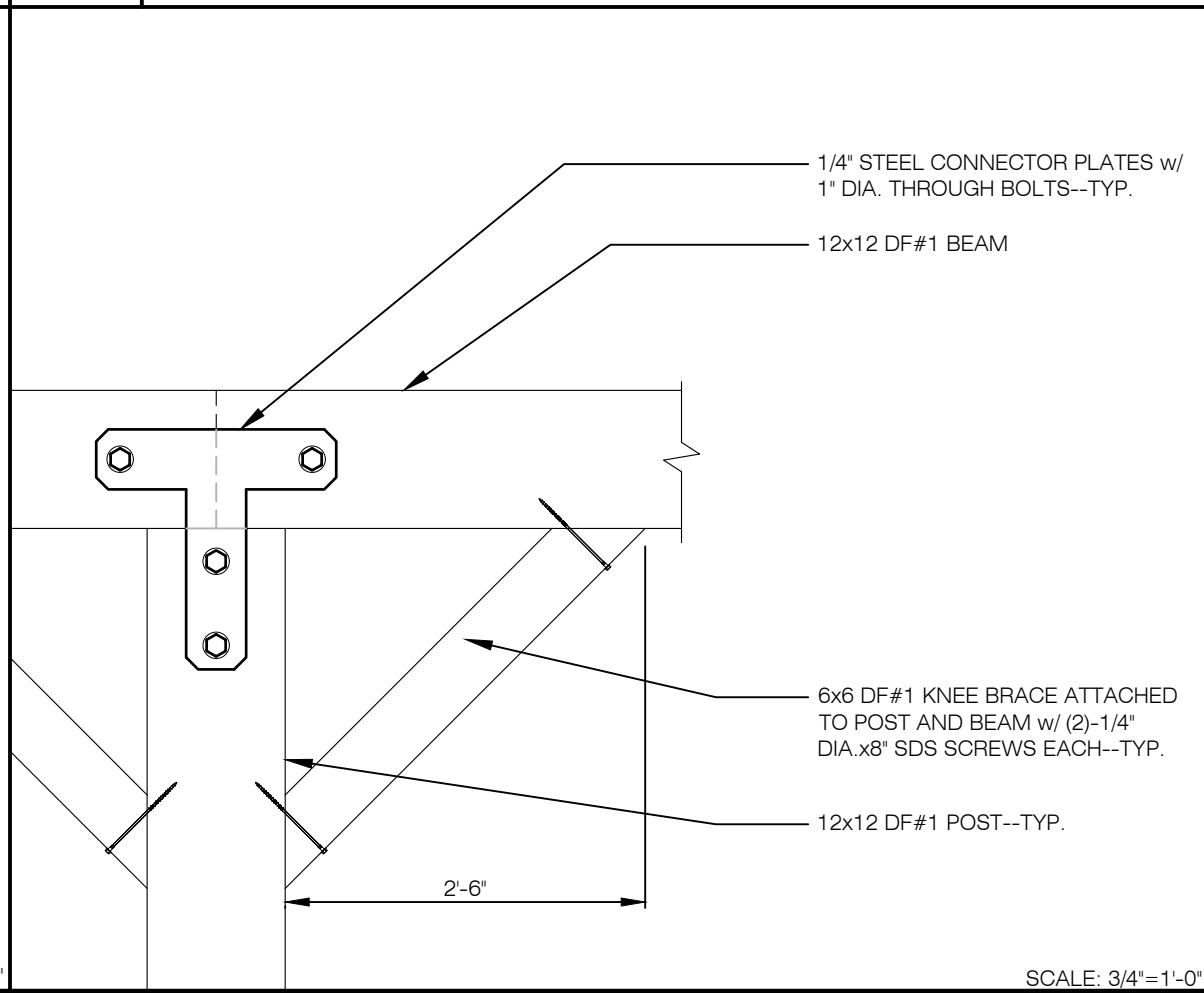
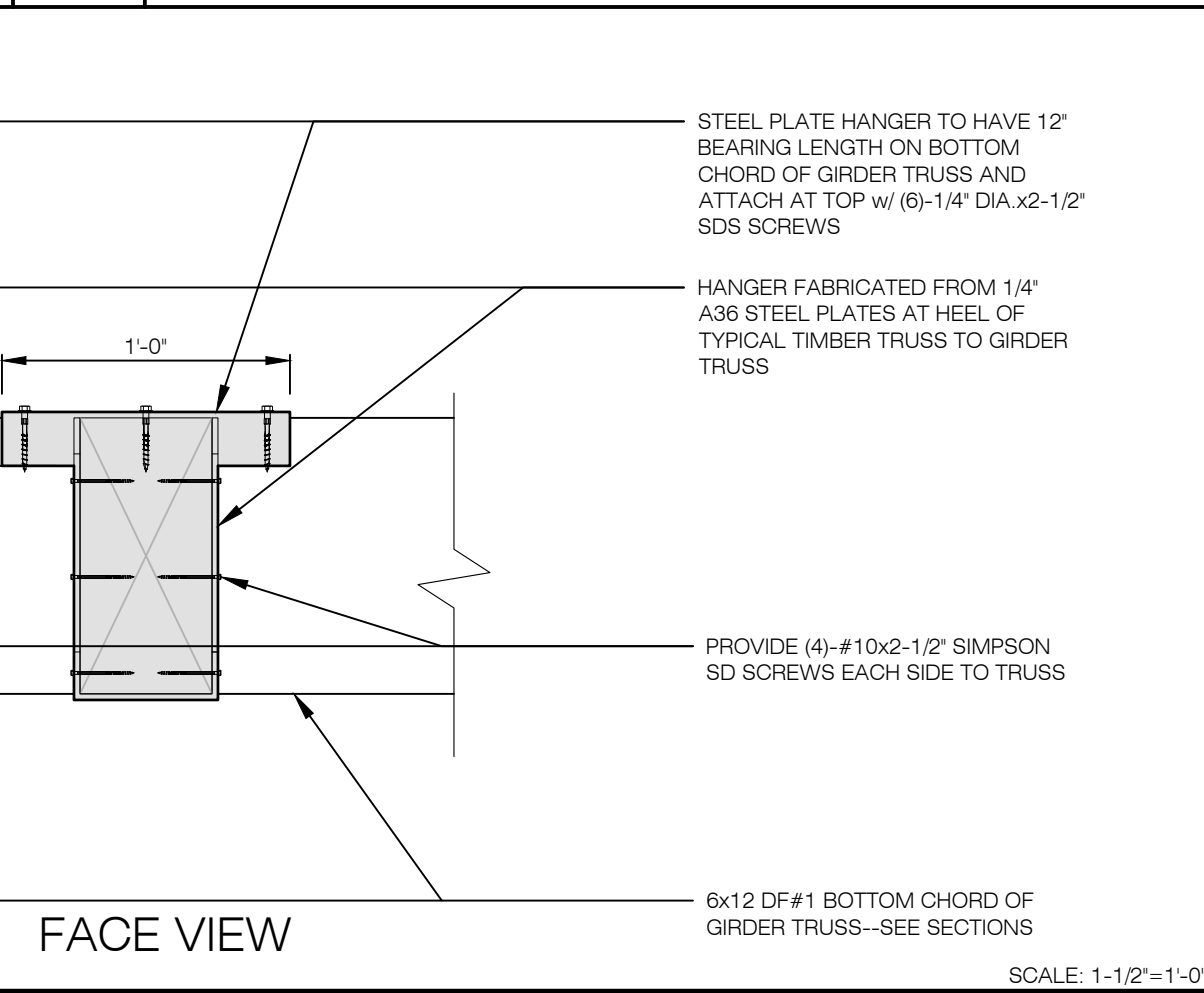
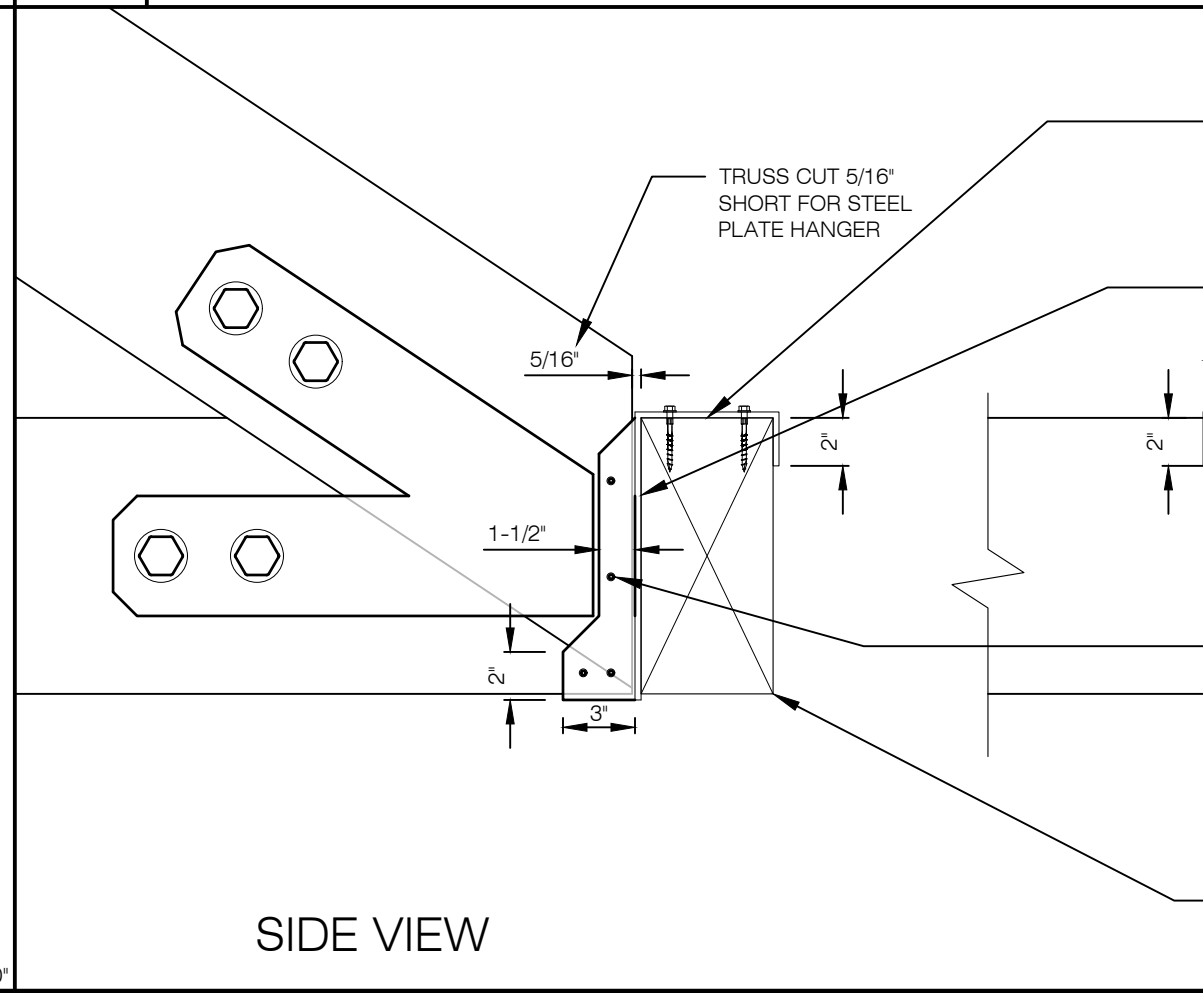
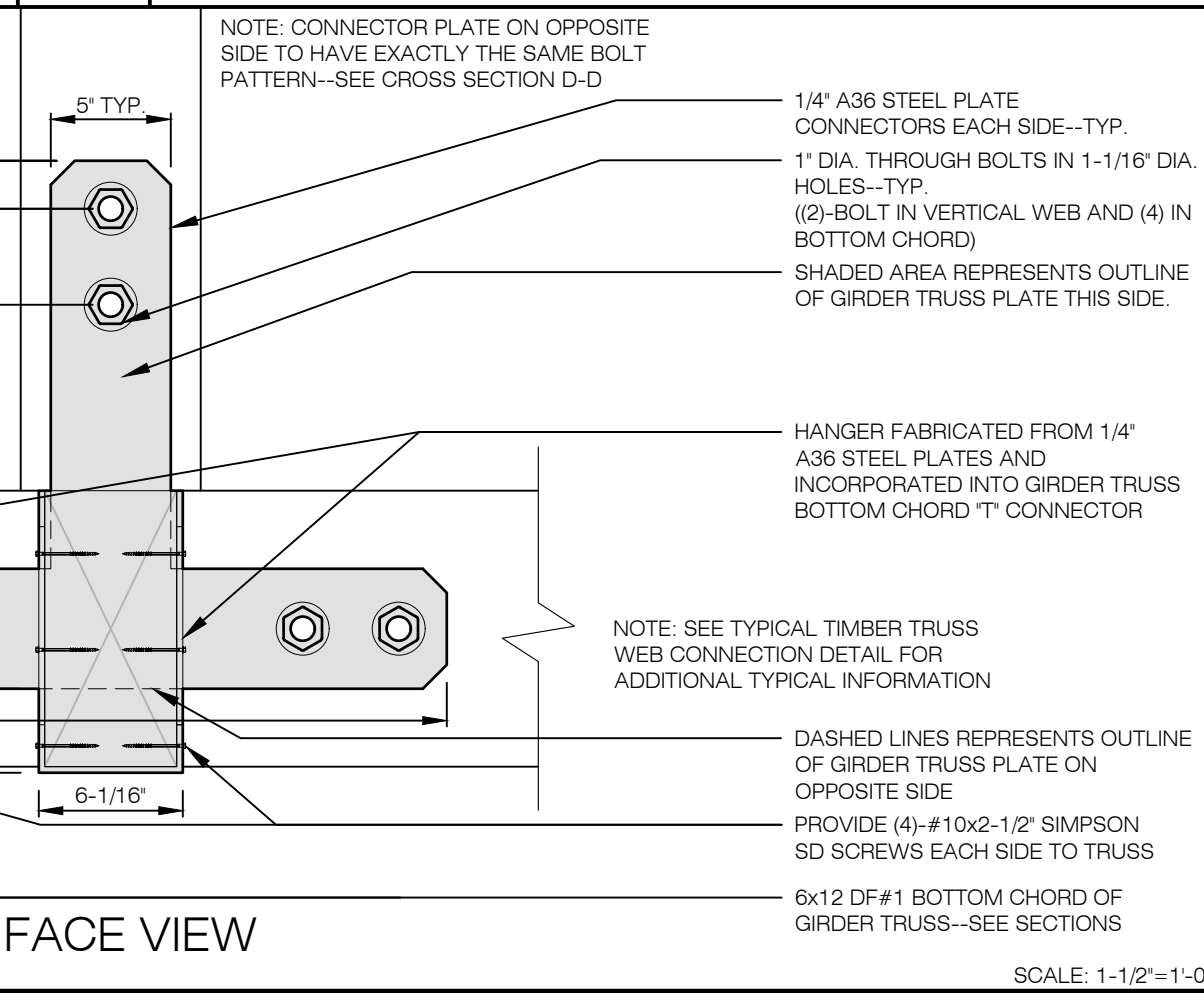
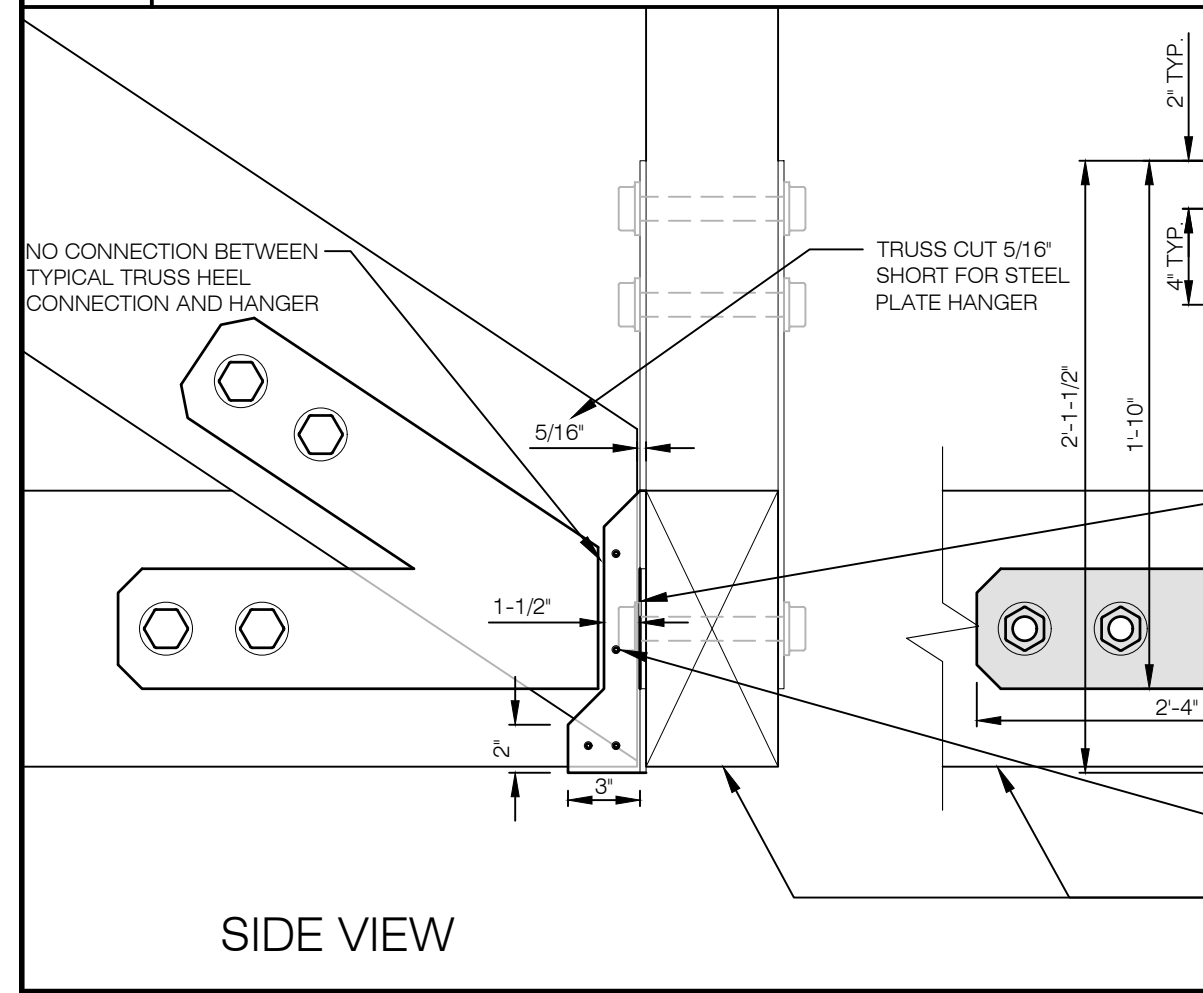
6 TYP. TIMBER TRUSS HEEL CONN.

7 TYP. TIMBER TRUSS WEB CONN.

8 TYP. TIMBER TRUSS PEAK CONN.

9 GIRDER TRUSS HEEL CONN.

10 GIRDER TRUSS PEAK CONN.



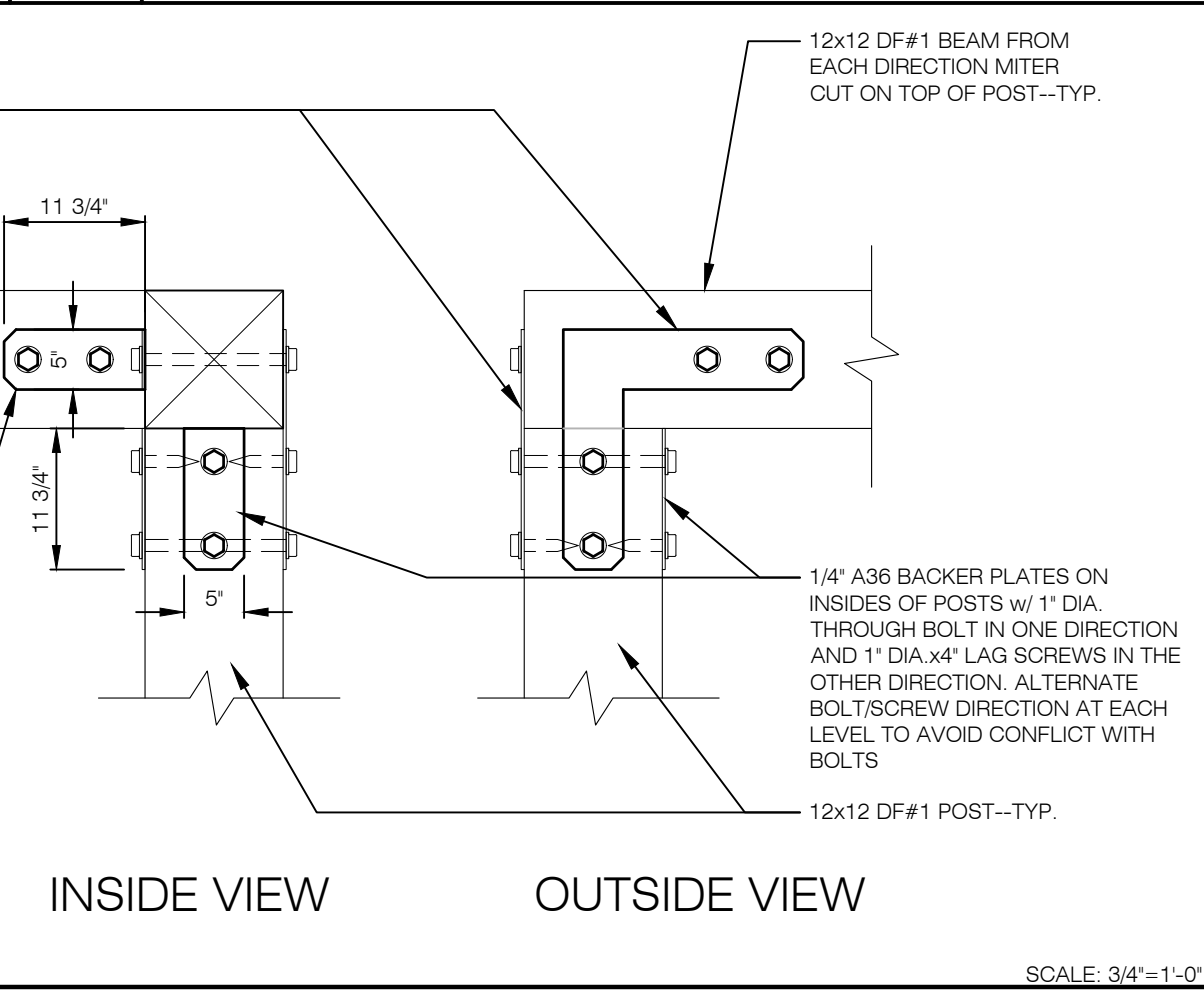
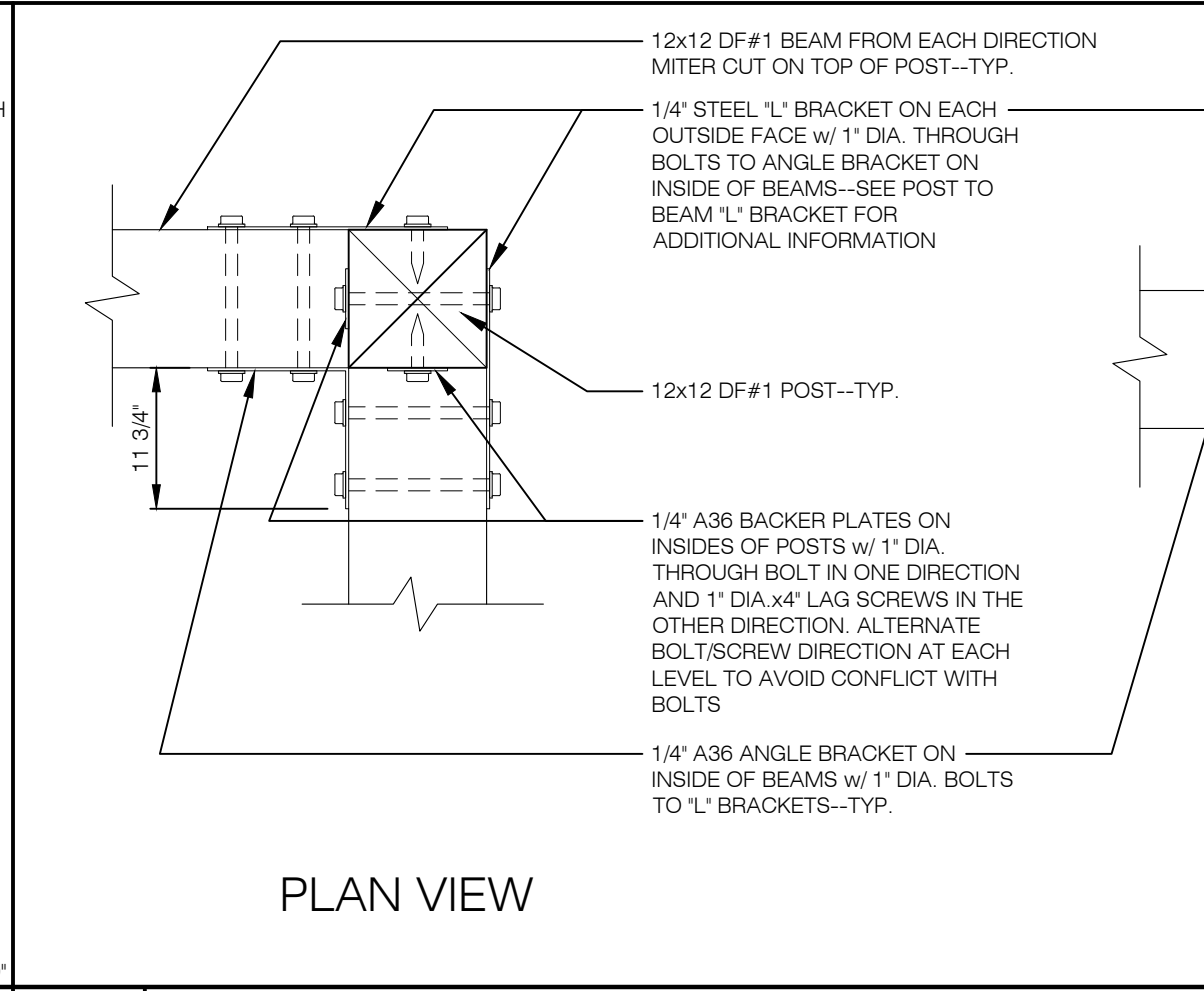
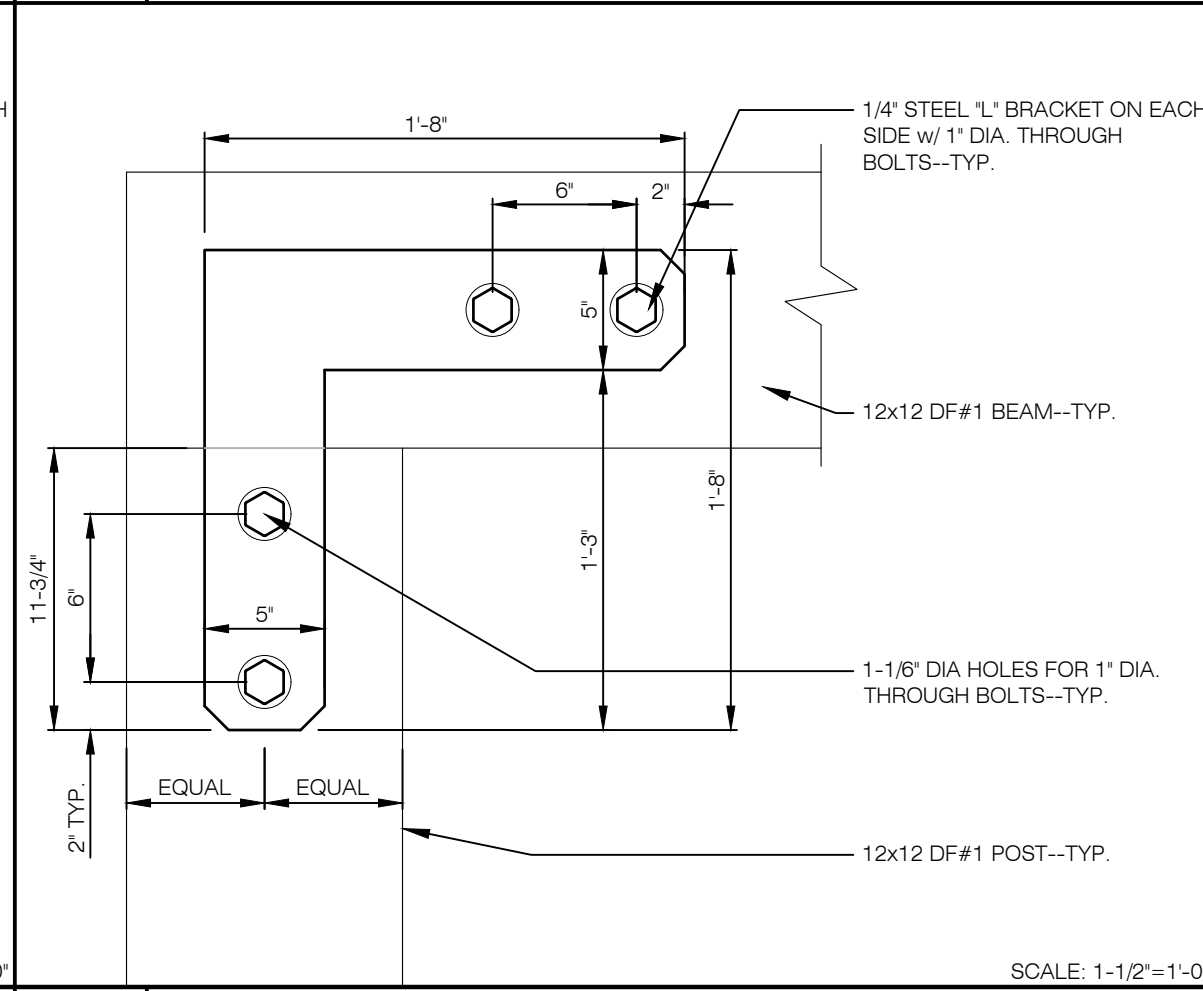
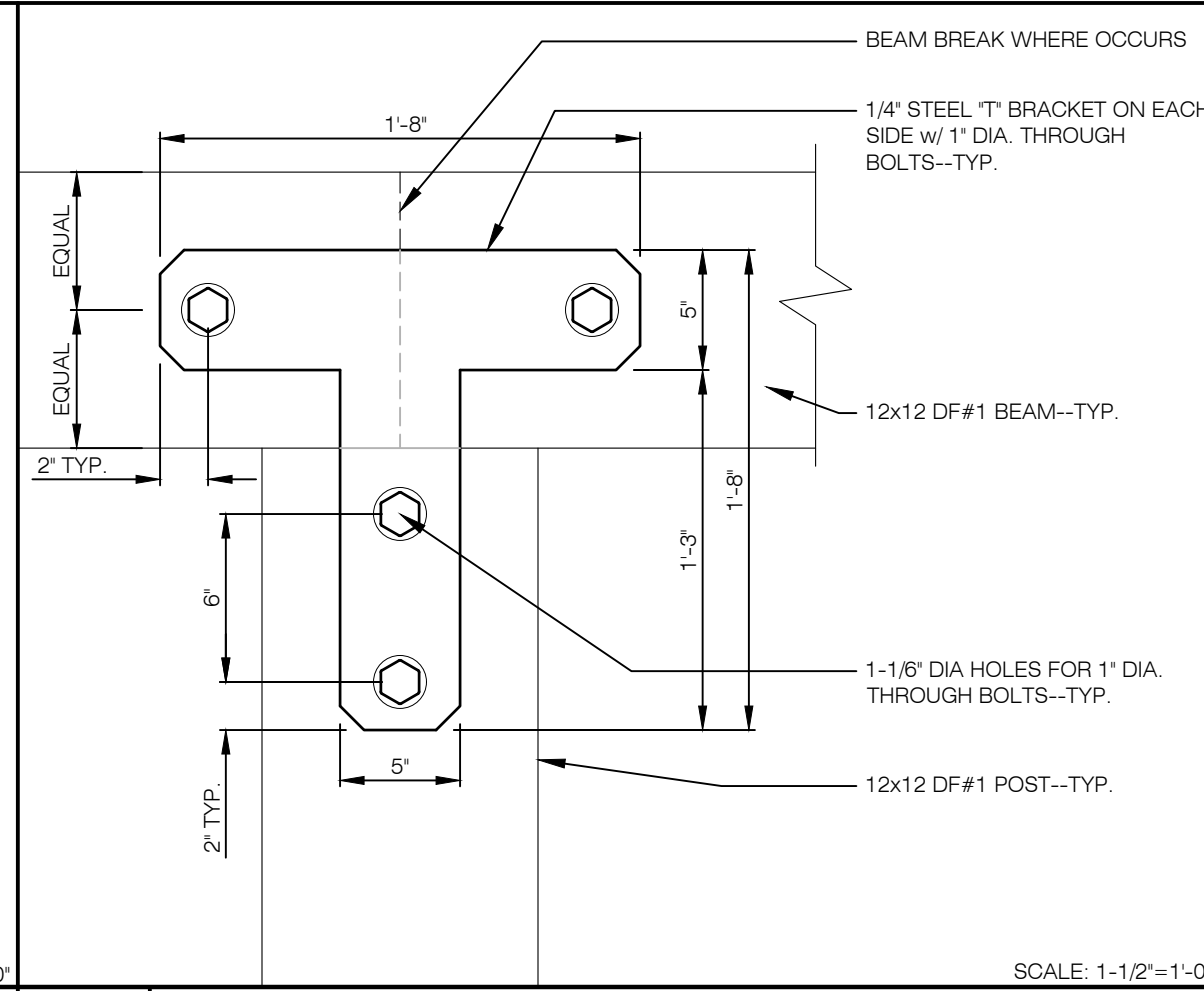
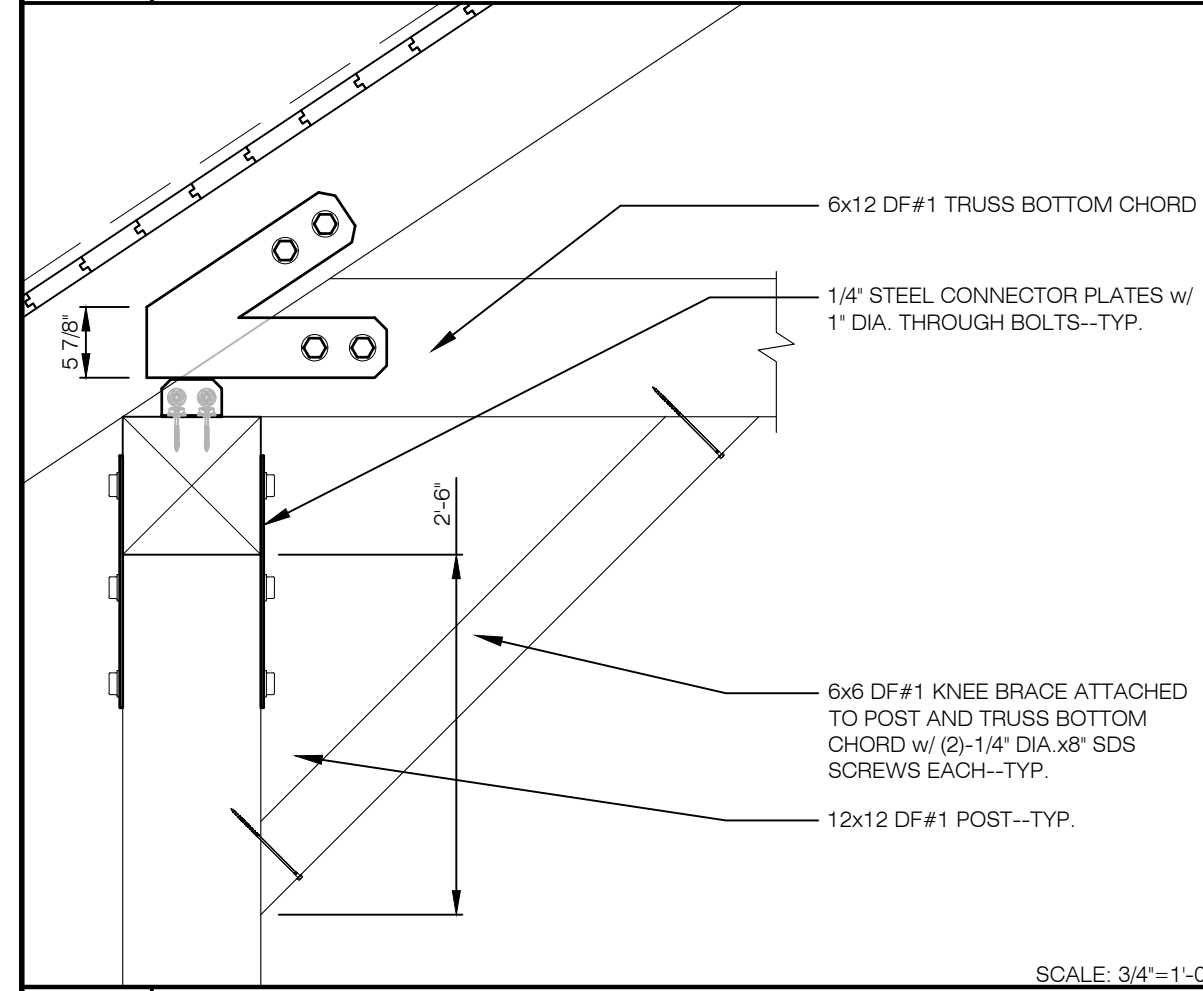
11 GIRDER TRUSS WEB CONN.

12 TYPICAL TRUSS TO GIRDER TRUSS

13 KNEE BRACE TO BEAM

14 KNEE BRACE TO TRUSS

15 POST TO BEAM "T" CONNECTOR



16 POST TO BEAM "L" CONNECTOR

17 POST TO BEAM "L" CONNECTOR AT CORNER

18 KNEE BRACE TO TRUSS

19 POST TO BEAM "L" CONNECTOR AT CORNER

20 KNEE BRACE TO TRUSS

Land & Structure
SURVEYING | ENGINEERING | DESIGN

105 SOUTH STEWART STREET, SONOMA, CALIFORNIA, 95370 T: 209.532.5173 F: 209.592.9220

REVISIONS:

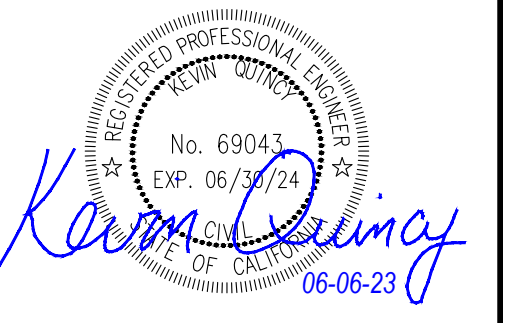
rev	date	description

OWNER INFORMATION:
T.H.C.S.D.
P.O. Box 649
Twain Harte CA 95383
Tom Trott G.M.
(209) 586-3172

SITE INFORMATION:
Meadow Drive
Twain Harte CA 95383
APN# 049-132-019

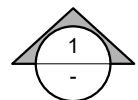
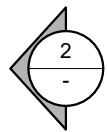
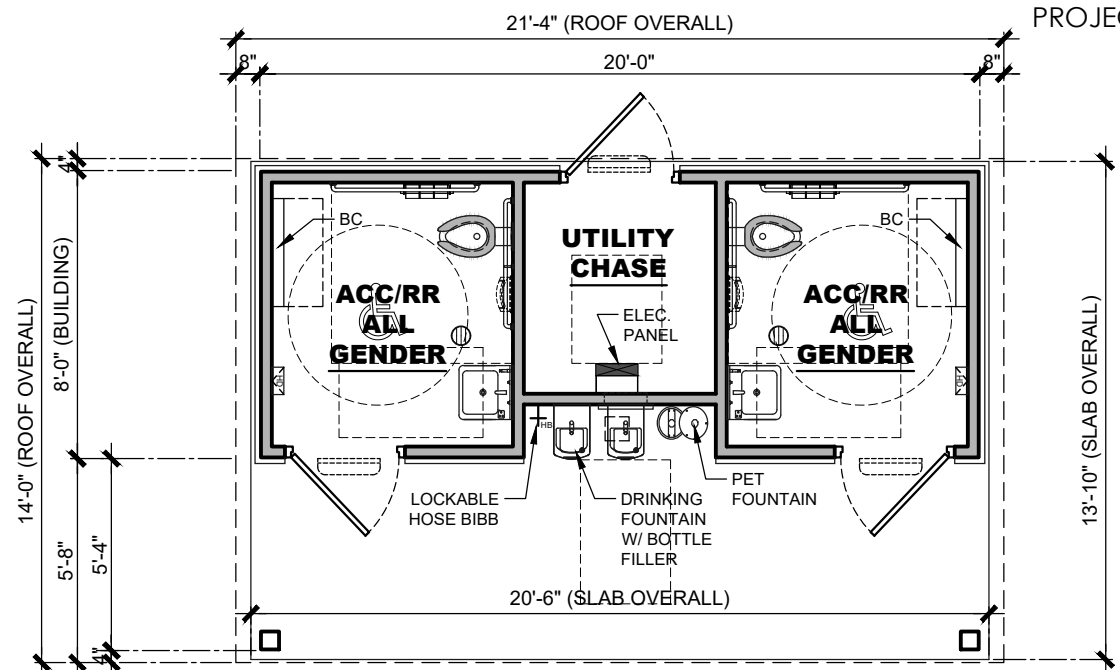
PROJECT INFORMATION:
A Pavilion Plan for:
Twain Harte Comm. Serv. Dist.
Meadow Drive
Twain Harte CA 95383

ENGINEER OF RECORD:



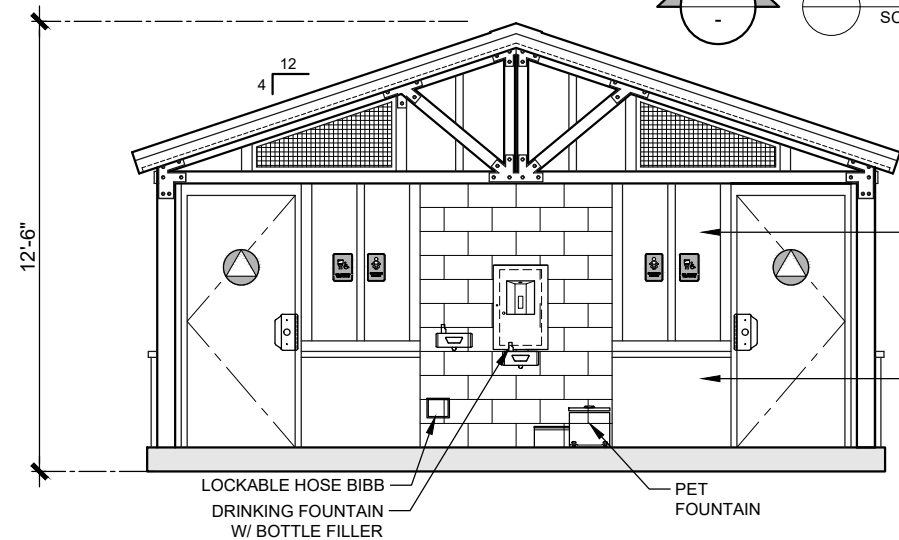
These drawings and specifications are the property of the engineer and shall not be used on any other work except by agreement with the engineer. Written dimensions shall take precedence over scaled dimensions and shall be verified on site. Any discrepancy shall be brought to the notice of the engineer prior to commencement of any work.

ISSUE DATE: 6-6-23
DRAWN BY: KTQ
CHECKED BY: ZPG
SCALE: 1/4"=1'-0"
DRAWING: pavilion
PROJECT NO: 22-07.11
SHEET: 5 OF 5



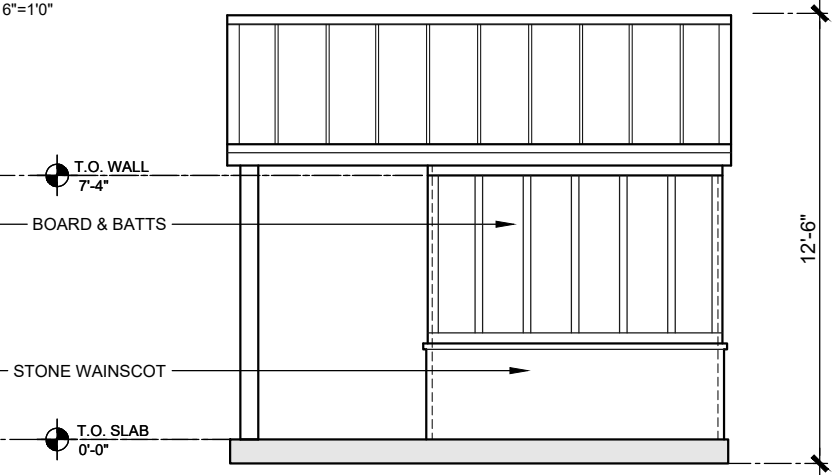
FLOOR PLAN

SCALE: 3/16"=1'-0"



ELEVATION 1

SCALE: 3/16"=1'-0"



ELEVATION 2

SCALE: 3/16"=1'-0"



COPYRIGHT 2023, PUBLIC RESTROOM COMPANY THIS MATERIAL IS THE EXCLUSIVE PROPERTY OF PUBLIC RESTROOM COMPANY AND SHALL NOT BE REPRODUCED, USED, OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED BY THE WRITTEN PERMISSION OF PUBLIC RESTROOM COMPANY.

BUILDING TYPE:	RESTROOM BUILDING 'A'
PROJECT:	TWAIN HARTE MEADOWS TWAIN HARTE, CA

REVISION #	-	REVISION DATE:		SHEET#	-
PROJECT #:	11613A	START DATE:	4/25/2023	MAX. PERSON / HOUR:	90 S
		DRAWN BY:	EOR		

OWNER / GENERAL CONTRACTOR AND PUBLIC RESTROOM COMPANY RESPONSIBILITIES

PUBLIC RESTROOM COMPANY RESPONSIBILITIES:

1. PROVIDE FULL ARCHITECTURAL PLANS AND ENGINEERING CALCULATIONS, STAMPED BY STATE GOVERNING AGENCY SUITABLE FOR GENERAL CONTRACTOR TO FILE FOR REQUIRED BUILDING PERMIT.
2. FURNISH AND INSTALL UNDERGROUND UTILITIES UNDER SLAB (INCLUDING TRENCHING) EXTENDING 6 FEET MAX. BEYOND THE BUILDING LINE, MIN. OF 24" - MAX OF 36" BELOW GRADE.
3. FURNISH AND INSTALL SLAB TO FOUNDATION ANCHORS PER DETAILS INCLUDED HEREIN. APPLICABLE ONLY TO BUILDINGS WITH FOUNDATIONS.

GENERAL NOTES:

1. THE DIFFERENCE IN THE ELEVATION BETWEEN THE FINISH FLOOR OF THE BUILDING AT EXTERIOR DOORS AND THE SIDEWALK OUTSIDE IS 1/4" MAX. PRC RECOMMENDS SIDEWALK TO BE FLUSH WITH FINISH FLOOR AT ALL DOORS.
2. THE PLAN & DETAILS HEREIN ARE SPECIFIC TO THE BUILDING SIZE AND MODULE CONFIGURATION OF THIS BUILDING MODEL.

OWNER / GENERAL CONTRACTOR RESPONSIBILITIES:

1. PREPARE BUILDING PAD AND OR FOUNDATION.
2. PROVIDE SITE PLAN & ENGINEERED FOUNDATION PLAN (IF APPLICABLE) AND ATTACH IT TO THE PUBLIC RESTROOM COMPANY'S DEPARTMENT OF HOUSING APPROVED DOCUMENTS AND OBTAIN NECESSARY PERMITS FROM LOCAL JURISDICTION.
3. VERIFY AND SCHEDULE NECESSARY INSPECTIONS WITH LOCAL JURISDICTION FOR SITE PERFORMED WORK BY OTHERS, AND FOR UNDER BUILDING SLAB PLUMBING CONNECTIONS MADE BY PRC.
4. COORDINATE SEWER INVERT ELEVATION WITH THE PUBLIC RESTROOM COMPANY PRIOR TO BUILDING INSTALLATION, VERIFY & COORDINATE LOCATION OF EXISTING UTILITIES INCLUDING WATER METER SIZE, TYPE, AND LOCATION OF EXISTING UTILITIES COMING INTO THE BUILDING SUPPLIED BY PRC
5. MAKE FINAL UTILITY CONNECTIONS (INCLUDING NECESSARY UTILITY BOXES).
6. PREPARE SITE FOR MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 1,500 psf, WITH SUB-GRADE COMPACTED TO 90% M.D.D.
7. SUPPLY AND STOCK PILE REQUIRED QUANTITY OF COARSE MASON SAND WITHIN BUILDING PROXIMITY FOR USE BY PRC FOR UTILITY TRENCH BACKFILL.
8. PROJECTS WITH FOOTINGS: PROVIDE SLEEVES IN FOOTINGS ACCORDING TO UTILITY LOCATION PLAN AND PAD / FOUNDATION PLAN DIRECTION.

GENERAL SITE CONDITION LIABILITY NOTE:

PUBLIC RESTROOM COMPANY (PRC) PROVIDES BUILDING PAD / FOUNDATION PLAN DRAWINGS FOR PLACEMENT OF OUR BUILDING ON SITE FOUNDATIONS / PADS FOR **REFERENCE ONLY**. PRC DRAWINGS DO NOT INCORPORATE SITE DESIGN FOR LOCAL CODES, SOILS CONDITIONS, FOOTING REQUIREMENTS, AND / OR ANY OTHER CONTRIBUTING SITE FACTORS UP TO AN INCLUDING HIGH WATER TABLES. IT IS THE RESPONSIBILITY OF THE OWNER / GENERAL CONTRACTOR TO PROVIDE A PROPER SITE DESIGN TO ACCOMMODATE THE BUILDING AS WELL AS PROVIDE PROPER SITE CRITERIA SO PRC MAY MODEL SEWER, WATER, AND ELECTRICAL DESIGNS WITHIN THE BUILDING. OUR BUILDING DESIGN INCLUDES AN 8" THICK REINFORCED CONCRETE SLAB AND ASSUMES FULL SLAB BEARING ON SOILS WITH A MINIMUM OF 1500 PSF BEARING CAPACITY. OUR BUILDING DESIGNS SURCHARGE THE SOIL BENEATH THE MAT SLAB AT APPROXIMATE 208 PSF. ANY BUILDING FOUNDATION IN ADDITION TO THE INTEGRAL MAT SLAB ARE SHOWN FOR **REFERENCE ONLY** AND SHOULD BE VERIFIED BY A LICENSED SOILS ENGINEER TO CONFORM WITH REQUIRED CODES.

PRC ASSUMES NO LIABILITY FOR THE OWNER OR GENERAL CONTRACTOR ACCEPTANCE OF THESE TYPICAL DRAWINGS WITHOUT VERIFICATION BY A LICENSED SOILS / FOUNDATION ENGINEER.



COPYRIGHT 2021, PUBLIC RESTROOM COMPANY THIS MATERIAL IS THE EXCLUSIVE PROPERTY OF PUBLIC RESTROOM COMPANY AND SHALL NOT BE REPRODUCED, USED, OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED BY THE WRITTEN PERMISSION OF PUBLIC RESTROOM COMPANY.

BUILDING TYPE:

RESTROOM BUILDING

DATE: - DRAWN BY:

PROJECT #: -

PROJECT:

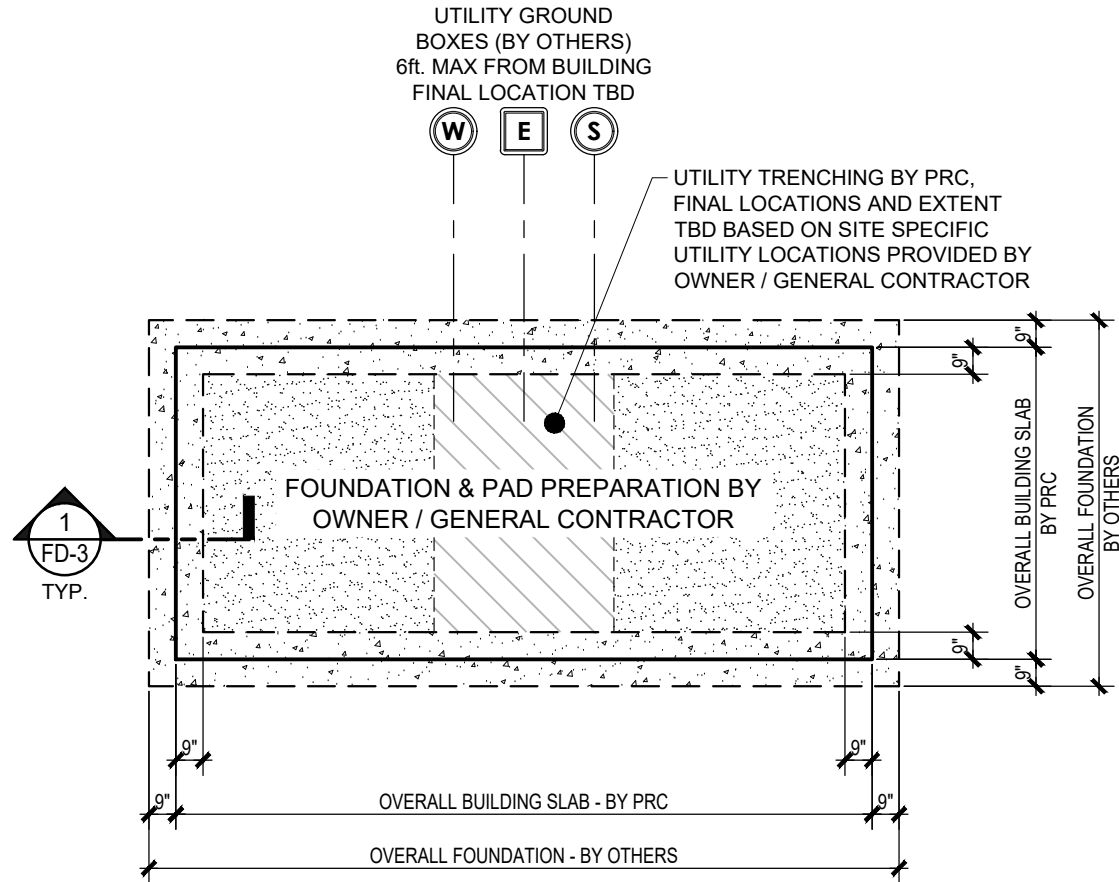
SHEET:

FD-1

1 OF 4

NOTES:

1. BOTTOM OF PRE-FAB BLDG. MANUFACTURERS SLAB IS DEAD FLAT. TOP OF FOOTINGS & COMPACTED BACK FILL MUST BE DEAD LEVEL. POUR FOOTING WITH LASER TRANSIT TO VERIFY TOP OF FOOTING. IF SHIM PLATES ARE REQUIRED A CHANGE ORDER IS REQUIRED.
2. REQUIRED ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF; FIELD VERIFIED BY OTHERS



1
FD-2

EXAMPLE FOUNDATION / PAD PREPARATION PLAN
SCALE: NOT TO SCALE

EXAMPLE FOR REFERENCE ONLY



COPYRIGHT 2021, PUBLIC RESTROOM COMPANY THIS MATERIAL IS THE EXCLUSIVE PROPERTY OF PUBLIC RESTROOM COMPANY AND SHALL NOT BE REPRODUCED, USED, OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED BY THE WRITTEN PERMISSION OF PUBLIC RESTROOM COMPANY.

BUILDING TYPE:

RESTROOM BUILDING

PROJECT:

DATE: - DRAWN BY:

PROJECT #: -

SHEET:

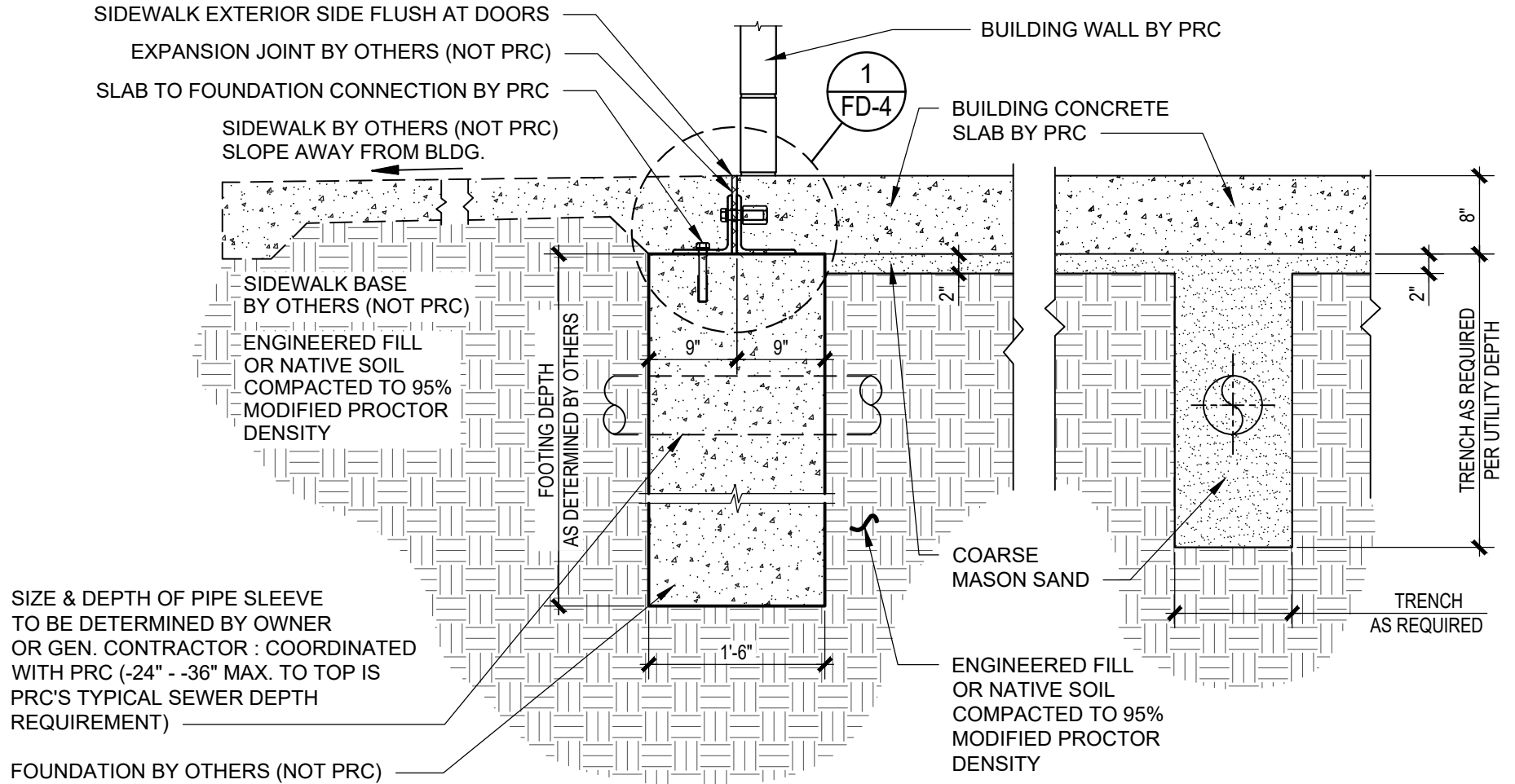
FD-2

2 OF 4

NOTES:

1. BOTTOM OF PRE-FAB BLDG. MANUFACTURERS SLAB IS DEAD FLAT. TOP OF FOOTINGS & COMPACTED BACK FILL MUST BE DEAD LEVEL. POUR FOOTING WITH LASER TRANSIT TO VERIFY TOP OF FOOTING. IF SHIM PLATES ARE REQUIRED A CHANGE ORDER IS REQUIRED.

2. REQUIRED ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF; FIELD VERIFIED BY OTHERS



1
FD-3
TYPICAL FOUNDATION SECTION DETAIL
 SCALE: NOT TO SCALE



COPYRIGHT 2021, PUBLIC RESTROOM COMPANY THIS MATERIAL IS THE EXCLUSIVE PROPERTY OF PUBLIC RESTROOM COMPANY AND SHALL NOT BE REPRODUCED, USED, OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED BY THE WRITTEN PERMISSION OF PUBLIC RESTROOM COMPANY.

BUILDING TYPE:

RESTROOM BUILDING

PROJECT:

DATE: - DRAWN BY:

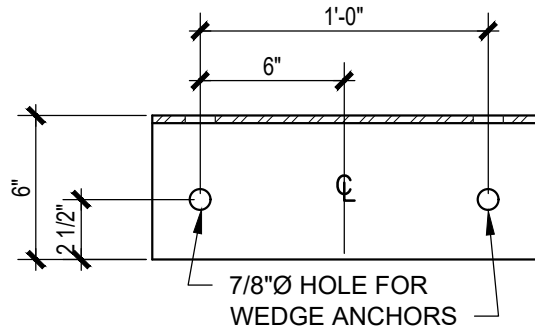
PROJECT #: -

SHEET:

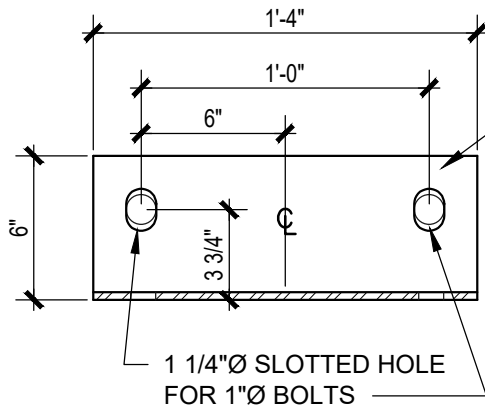
FD-3

3 OF 4

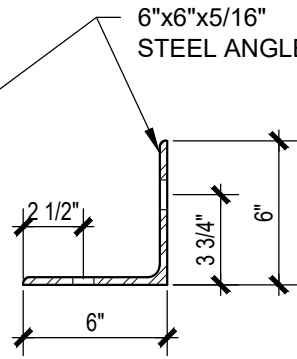
NOTE:
QUANTITY AND LOCATIONS OF ANCHORS TO BE DETERMINED BY PRC ENGINEER



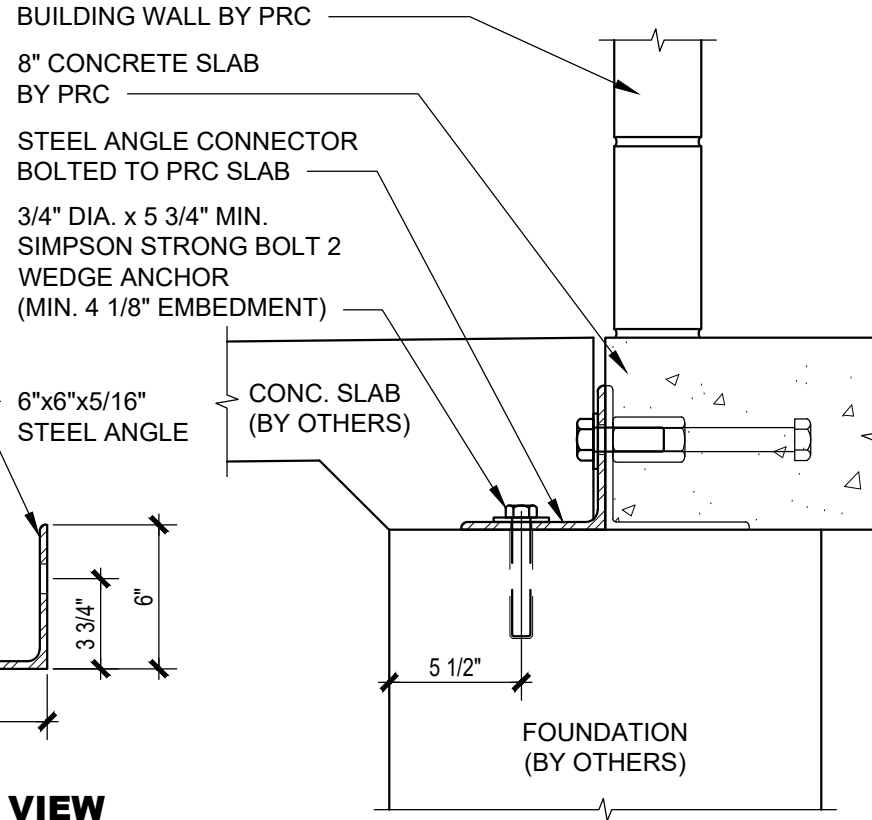
TOP VIEW



FRONT VIEW



SIDE VIEW



1
 FD-4

SLAB TO FOUNDATION ANCHOR DETAIL (BY PRC)

SCALE: NOT TO SCALE



COPYRIGHT 2021, PUBLIC RESTROOM COMPANY THIS MATERIAL IS THE EXCLUSIVE PROPERTY OF PUBLIC RESTROOM COMPANY AND SHALL NOT BE REPRODUCED, USED, OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED BY THE WRITTEN PERMISSION OF PUBLIC RESTROOM COMPANY.

BUILDING TYPE:

RESTROOM BUILDING

PROJECT:

DATE: - DRAWN BY:

PROJECT #: -

SHEET:

FD-4

4 OF 4