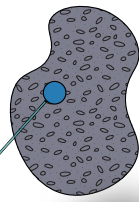


APARTMENT COMPLEX



BALL FIELD DRAINAGE BASIN
 USE 6" PIPE TO ACCOMMODATE LARGE EVENTS
 COVER DRAINAGE WITH LARGE ROCK TO CATCH SOIL, DEBRIS
 BASEBALL FIELD CATCHMENT AREA - 1 ACRE

LAUNDRY BASINS - DIG TO 8 INCHES



1,500 SQUARE FEET

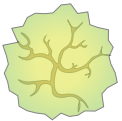
- MARK AND NOTE DEPTH OF UTILITY LINE
- MOVE BERM TO RUN ALONG CONTOUR OF WALKING PATH.
- IMPORT SOIL TO BUILD BERM HEIGHT INCREASING BASIN CAPACITY.
- DIG ONLY TO ONE FOOT, OR AS UTILITY LINE ALLOWS.
- PLANT AREA DENSELY.
- MULCH ENTIRE AREA THOROUGHLY, INCLUDING BASIN.

HANDWASH BASIN
 DIG TO 1 FOOT

ROOF CATCHMENT AREA - 3,200 SQUARE FEET

TOOL RINSE BASIN
 DIG TO 1 FOOT

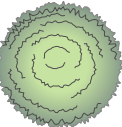
SAMBUCUS SPP.



JUSTICIA CALIFORNICA



HETEROMELES ARBUTIFOLIA OR
 RHUS INTEGRIFOLIA



SPOROBOLUS AIROIDES OR JUNCUS ACUTUS



SPOROBOLUS AIROIDES



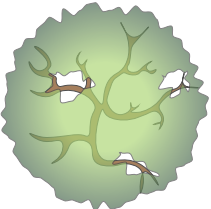
STIPA PULCHRA



YUCCA SPP.



SALIX SPP.



SALVIA MELLIFERA



ERIOGONUM FASCICULATUM



INFILTRATION BASIN



DOWNSPOUT AND FIRST FLUSH



GREYWATER OUTLET



POP UP DRAIN



PUMP AND MANIFOLD



CLEANOUT FOR WET LINE TO TANKS



5,000 GALLON TANK



DRAIN AND OVERFLOW LINES:

- DRAIN RUNNING SOUTH AND WEST BORDERS ALLOW PASSIVE RUNOFF TO WATER EXISTING PLANTINGS.
- "TOOL RINSING BASIN" WILL DRAIN INTO THIS SYSTEM AS WELL.
- CREATE STRUCTURED DRAIN FROM BALL FIELD TO LARGE WESTERN BASIN TO MITIGATE EROSION ISSUES BETWEEN ADJACENT PROPERTIES.
- DRAIN RAIN TANKS INTO SMALL "TOOL RINSING" BASIN WITHIN WESTERN WALL OF THE NURSERY.

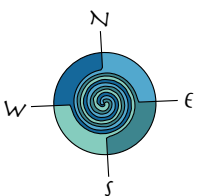
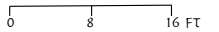
TANK FILL LINE:

- EACH DOWNSPOUT WILL TIE INTO AN UNDERGROUND FILL LINE THAT WILL LEAD TO TWO 5,000 GALLON TANKS.
- THESE TANKS WILL BE TIED INTO AN IRRIGATION SYSTEM FOR THE NURSERY PLANTS USING A PUMP. THIS PUMP WILL BE NEAR TANKS.
- EACH DOWNSPOUT WILL BE ARMED WITH A LEAF/DEBRIS FILTER AND FIRST FLUSH LINE.
- THESE F.F. LINES CAN WATER NEARBY PLANTS - BLACK SAGE ON WEST SIDE AND GRASSES ON EAST SIDE OF MAIN BUILDING.
- THE LOWEST POINT OF THIS "WET SYSTEM" SHOULD HAVE A CLEANOUT LINE FOR THE UNDERGROUND PIPE TO DRAIN INTO.
- THIS CLEANOUT CAN DRAIN INTO THE HANDWASHING BASIN AND TOOL RINSING BASINS IN THE NURSERY AREA.

GREYWATER LINE:

- HANDWASHING STATION IN NURSERY AREA DRAINS INTO A BASIN NEAR THE RAIN TANKS.

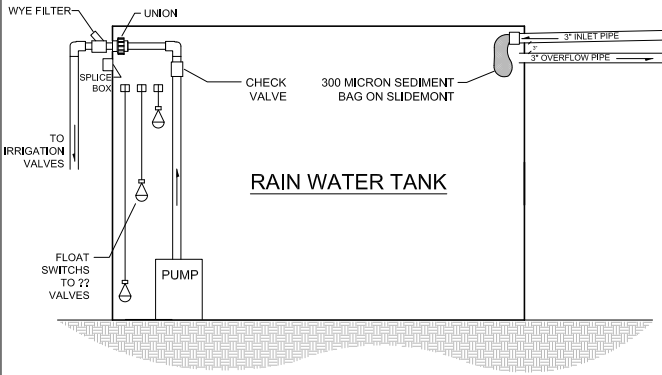
APPROX. SCALE - 1/8" = 1'



Rain Water Site Plan

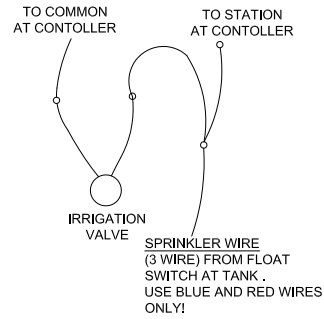
PROJECT:
Tijuana Estuary Center
 STREET ADDRESS:
 XXXX XXXXXX XXX
 XXXX, California XXXX

DATE: February 22, 2019
 SCALE: 1/8" = 1'



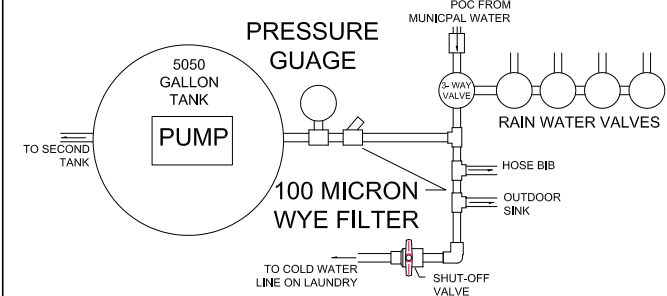
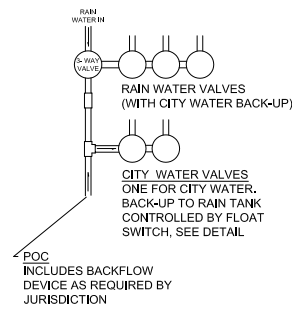
WIRING DIAGRAM FOR IRRIGATION VALVE

NOT TO SCALE



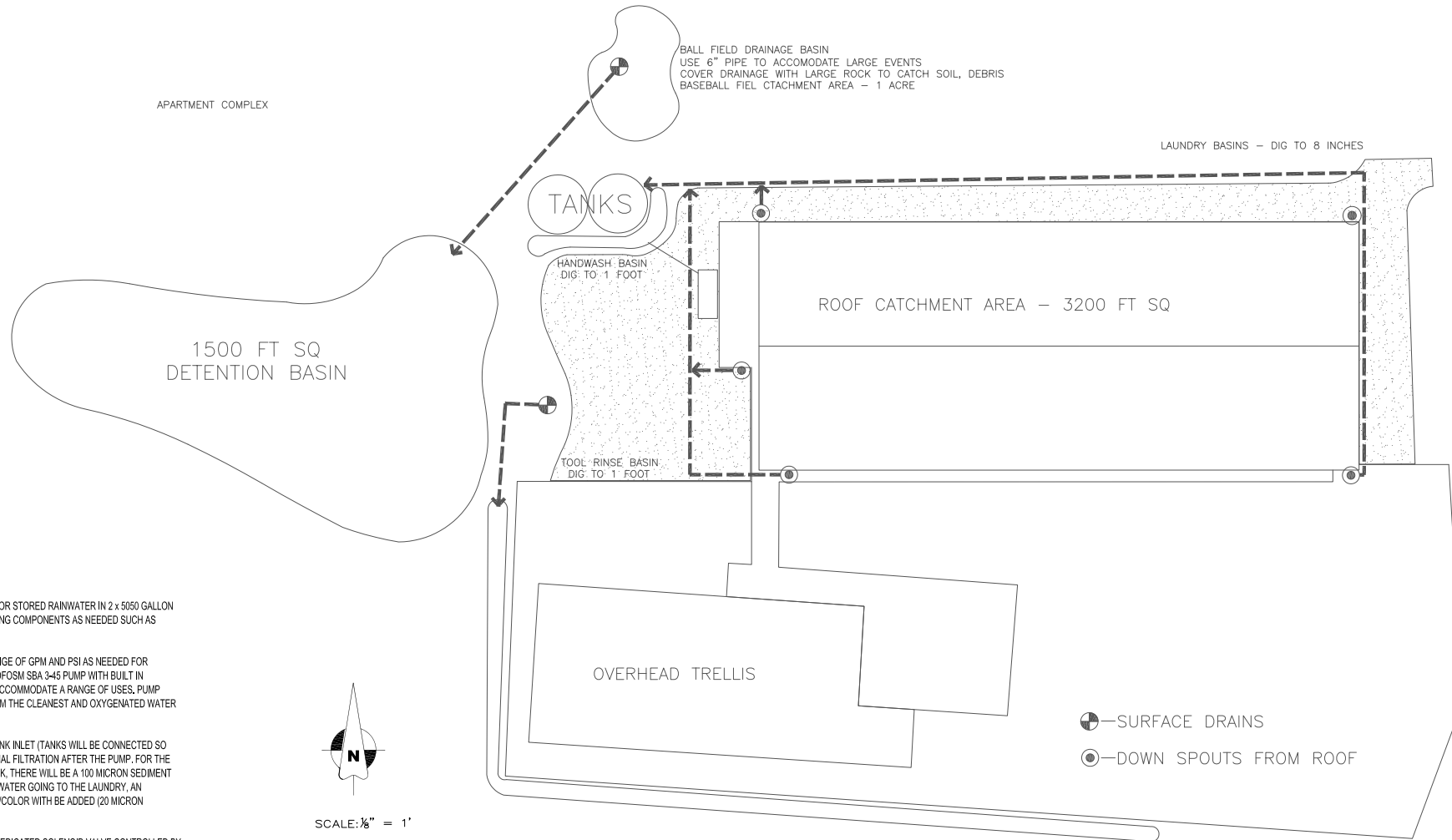
IRRIGATION VALVE LAYOUT

NOT TO SCALE



PUMP STATION

NOT TO SCALE



TIJUANA ESTUARY PUMP STATION NOTES

SYSTEM: SYSTEM INCLUDES THE FOLLOWING: PUMP STATION FOR STORED RAINWATER IN 2 x 5050 GALLON TANKS FROM A 3200 SQ FT ROOF AREA WITH ALL SUPPORTING COMPONENTS AS NEEDED SUCH AS VALVES, FLOAT SWITCHES, SPLICE BOXES AND FILTERS.

PUMP: PUMP IS PRESSURE-SENSITIVE AND WILL PROVIDE A RANGE OF GPM AND PSI AS NEEDED FOR IRRIGATION AND HOSE BIBS. PROPOSED PUMP IS BY GRUNDFOSM SBA 3-45 PUMP WITH BUILT IN CONTROLLER AND RUN DRY PROTECTION AND RANGE TO ACCOMMODATE A RANGE OF USES. PUMP INCLUDES FLOATING EXTRACTOR AT INLET TO SAMPLE FROM THE CLEANEST AND OXYGENATED WATER IN THE TANK.

FILTRATION: FILTRATION INCLUDES A SEDIMENT BAG AT THE TANK INLET (TANKS WILL BE CONNECTED SO ONE FILTER WILL SUFFICE) WITH 300 MICRON AND ADDITIONAL FILTRATION AFTER THE PUMP. FOR THE WATER GOING TO IRRIGATION, HOSE BIBS AND GRADEN SINK, THERE WILL BE A 100 MICRON SEDIMENT "WYE" FILTER WITH A STAINLESS STEEL SCREEN. FOR RAINWATER GOING TO THE LAUNDRY, AN ADDITIONAL FILTER TO REMOVE FINE SEDIMENT AND ODOR/COLOR WITH BE ADDED (20 MICRON COMBINED CHARCOAL AND SEDIMENT).

MAKE UP WATER: MAKE UP WATER WILL BE PROVIDED WITH A DEDICATED SOLENOID VALVE CONTROLLED BY A FLOAT SWITCH (NORMALLY CLOSED) THAT WILL MAINTAIN THE DAILY MINIMUM IN THE TANKS FOR REQUIRED USES.



SCALE: 1/8" = 1'

