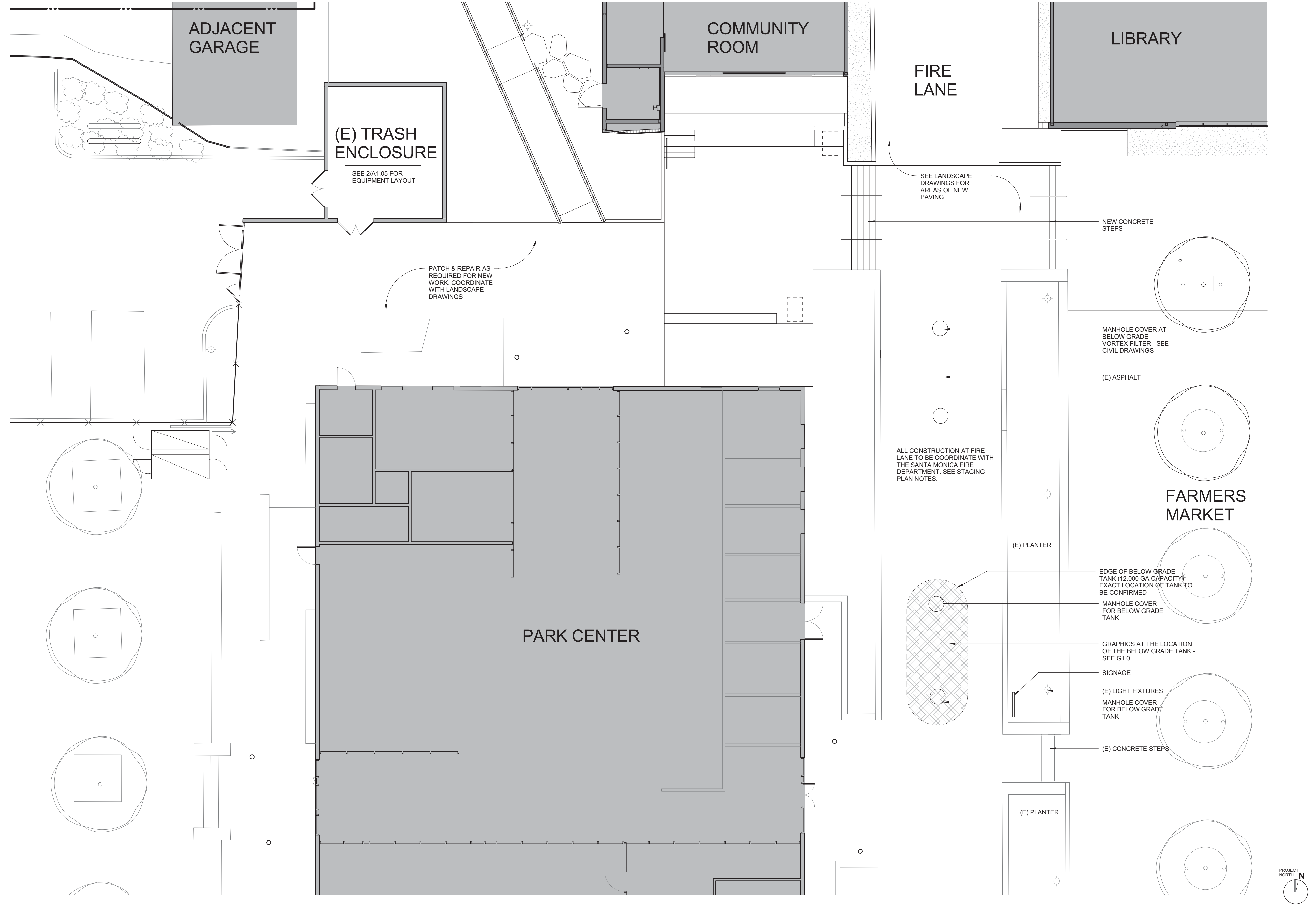


EQUIPMENT LAYOUT AT TRASH ENCLOSURE 0 1' 2' 4' 1/4" = 1'-0" 2



SITE PLAN RW# 0 2' 4' 8' 1/8" = 1'-0" 1

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ARCHITECT'S PROJECT NO.  
**1001**

ARCHITECT

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NO.	DATE	BY	DESCRIPTION
07.24.12			BULLETIN 2
REVISIONS			

ISSUE  
**RAINWATER HARVESTING**

DATE  
**07.24.12**

DRAWING NO.  
**6693**

SHEET TITLE  
**RAINWATER ARCHITECTURAL SITE PLAN**

SHEET NO.  
**A1.05**

SHEET NO. 1

**LEGEND & ABBREVIATIONS:**

- PROPERTY LINE
- BUILDING OUTLINE
- RWS FORCE MAIN
- RWS ELECTRICAL LINE
- RWS AIR LINE
- TREATED WATER FEED LINE
- POTABLE WATER FEED LINE
- STORM DRAIN
- SANITARY SEWER
- DOMESTIC WATER SUPPLY LINE
- ELECTRICAL UTILITY LINE
- GAS UTILITY LINE
- FIRE WATER LINE
- NORMALLY OPEN VALVE
- NORMALLY CLOSED VALVE
- BALL VALVE
- CHECK VALVE
- HOSE BIB
- SOLENOID VALVE
- BACKWATER VALVE
- REVERSE PRESSURE PRINCIPAL (RP)
- BACKFLOW PREVENTER
- SAMPLE PORT
- PUMP
- DIAMETER
- ANTHRACITE FILTER ARRAY
- BLADDER TANK
- CARBON FILTER ARRAY
- CONTROL PANEL
- CALIFORNIA PLUMBING CODE
- COPPER DISINFECTION
- DOMESTIC WATER LINE
- ELECTRICAL LINE
- EVER GREEN SYSTEM BY WRS
- ELEVATION
- FORCE MAIN
- FINISHED SURFACE
- GAS LINE
- INVERT
- MANUFACTURER
- PUMP NUMBER
- PROPERTY LINE
- POTABLE WATER
- TREATED WATER (RECYCLED)
- RAIN WATER SYSTEM
- RAIN WATER TANK
- SAND FILTER ARRAY
- STORM DRAIN
- SANITARY SEWER
- TOP OF GRADE
- TREATED WATER TANK
- ULTRAVIOLET DISINFECTION
- VORTEX FILTER

- ① VF-1: VORTEX RAIN WATER FILTER 1, CONTECH STORMWATER SOLUTIONS CDS2015-4 FILTER IN H-20 TRAFFIC RATED 48"Ø PRECAST CONCRETE STORM WATER BASIN WITH 30"Ø H-20 TRAFFIC RATED CAST IRON FRAME, COVER AND RISERS TO GRADE PER MFR.
- ② RWT-1: RAIN WATER TANK 1, CONTAINMENT SOLUTIONS MODEL SWT D-6 10'Ø, 12,000-GAL BELOW GROUND FRP CISTERN WITH TWO (2) 30"Ø LIDS/RISERS PER MFR WITH EBW H-20 TRAFFIC RATED SLAB/LID AT GRADE. TANK CONTAINS ONE (1) 1/2 HP FILTRATION PUMP. TANK SHALL BE GAS AND WATERTIGHT AND VENTED TO ROOF PER CPC.
- ③ 2"Ø AND 6"Ø SPEARS PVC BACKWATER VALVES MODEL NO. S275P OR S675P, OR APPROVED EQUAL FOR SD AND SS LINES WITH H-20 TRAFFIC RATED SLAB AND GROUND LEVEL ACCESS KIT FOR ROUTINE MAINTENANCE.
- ④ TWT-1: TREATED WATER TANK 1, 46"Ø CHEM-TAINER 305-GAL ABOVE GROUND FRP TREATED WATER TANK PER MFR WITH ONE (1) 1/2 HP SUPPLY PUMP AND ONE (1) 1/2 HP RECIRCULATION PUMP. TANK SHALL BE GAS AND WATERTIGHT.
- ⑤ S-1: SAND FILTER 1, 18"Ø ABOVE GROUND SAND MEDIA FILTER, INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- ⑥ A-1: ANTHRACITE FILTER 1, 16"Ø ABOVE GROUND ANTHRACITE MEDIA FILTER, INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- ⑦ C-1: CARBON FILTER 1, 16"Ø ABOVE GROUND GRANULAR ACTIVATED CARBON MEDIA FILTER, INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- ⑧ UV-1: ULTRAVIOLET FILTER 1, 3"Ø ABOVE GROUND ULTRAVIOLET DISINFECTION FILTER, INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- ⑨ Cu-1: COPPER FILTER 1, ABOVE GROUND ELECTROLYTIC COPPER IONIZATION DISINFECTION FILTER, INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- ⑩ BT-1: BLADDER TANK 1, 25"Ø ABOVE GROUND 80-GAL BLADDER TANK, WESSELS COMPANY MODEL FX-300V.
- ⑪ MICROSEPTIC HIBLOW HP-120 ABOVE GROUND AIR COMPRESSOR OR EQUAL. CONTRACTOR TO LOCATE IN SHADED AREA AWAY OUT OF DIRECT SUBLIGHT OR PROVIDE SHADE COVER.
- ⑫ RWS CONTROL PANEL PER WATER RECYCLING SYSTEM. LICENSED ELECTRICIAN TO DETERMINE NUMBER AND SIZING OF WIRES.
- ⑬ RWS ELECTRICAL DISCONNECT PER WATER RECYCLING SYSTEM. LICENSED ELECTRICIAN TO DETERMINE NUMBER AND SIZING OF WIRES.
- ⑭ SQUARE D PRESSURE SWITCH CLASS 9013 TYPE GNG SERIES C INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- ⑮ 2"Ø AND 8"Ø PVC SAMPLE PORTS WITH CHRISTY G5 H-20 TRAFFIC RATED BOX IF LOCATED IN TRAFFIC AREA.

**2 RAIN WATER HARVESTING SYSTEM KEYNOTES**  
 Scale: N.T.S.  
 \*ALL ELECTRICAL PIPING PER KEYNOTE 22 SHOWN HEREON. REFER TO SHEET W-4 FOR ELECTRICAL PIPING DETAILS.

- Ⓐ CONTRACTOR TO VERIFY EXACT LOCATION OF PROPERTY LINES.
- Ⓑ ALL DIMENSIONS AND ELEVATIONS SHALL BE FIELD-VERIFIED BY CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ENGINEER IN WRITING IN THE EVENT OBSERVED DIMENSIONS DIFFER FROM DIMENSIONS SHOWN ON THE ONSITE WASTEWATER TREATMENT SYSTEM PLANS.
- Ⓒ ANY CHANGES IN PLANS OR SPECIFICATIONS SHALL BE MADE ONLY WITH THE WRITTEN AUTHORIZATION OF SYSTEM ENGINEER.
- Ⓓ ALL EXCAVATIONS SHALL COMPLY WITH OSHA STANDARDS.
- Ⓔ IF APPLICABLE, A REGISTERED GEOTECHNICAL ENGINEER, UNDER THE DIRECTION OF THE OWNER, SHALL DETERMINE IF THE SOIL CONDITIONS WILL CAUSE THE EXISTING GROUND TO BECOME UNSTABLE.
- Ⓕ ALL RAIN WATER HARVESTING SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CALIFORNIA AND UNIFORM PLUMBING CODES, INCLUDING BUT NOT LIMITED TO VENTING OF SYSTEM COMPONENTS AND INSTALLING OF CLEANOUTS.
- Ⓖ LICENSED ELECTRICIAN SHALL VERIFY CONDUCTOR AND CONDUIT SIZES PRIOR TO SYSTEM INSTALLATION USING MANUFACTURER'S PUBLISHED FULL LOAD AMPS (FLA) FOR CONDUCTOR SHALL BE SIZED PER LATEST APPLICABLE ELECTRIC CODE.
- Ⓗ ALL ELECTRICAL EQUIPMENT AND APPURTENANCES RELATED TO ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH LATEST APPLICABLE ELECTRIC CODE, LOCAL UTILITY COMPANY REGULATIONS AND ALL STATE AND MUNICIPAL CODES AND ORDINANCES. ALL EQUIPMENT SHALL BE UNDERWRITER LABORATORY (UL) LISTED.
- Ⓘ AS NECESSARY AND UPON COMPLETION OF INSTALLATION, CONTRACTOR TO THOROUGHLY FLUSH ALL PIPELINES TO REMOVE ANY DIRT, SCALE, OR OTHER MATERIAL.
- Ⓙ PRIOR TO SYSTEM STARTUP, CONTRACTOR TO PRESSURE TEST ALL LINES, INCLUDING AIR VENTS (USE STIRRED VALVES FOR EASY READINGS). PRESSURE TESTING TO BE CONDUCTED IN THE PRESENCE OF OWNER OR SYSTEM ENGINEER.
- Ⓚ SYSTEM ENGINEER TO BE NOTIFIED PRIOR TO COMMENCEMENT OF WORK.
- Ⓛ SYSTEM ENGINEER OR AUTHORIZED AGENT TO CONDUCT PERIODIC INSPECTIONS, INCLUDING AT A MINIMUM VERIFICATION OF STAKED SITE LAYOUT, OBSERVATION OF INSTALLED PIPING PRIOR TO BURIAL, AND SYSTEM STARTUP. IF SYSTEM ENGINEER DOES NOT OBSERVE THE CONSTRUCTION, ALL LIABILITY IS RELEASED TO THE INSTALLER.
- Ⓜ CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF PROJECT SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE FINAL PROJECT SPECIFICATIONS FROM THE SYSTEM ENGINEER PRIOR TO PROCEEDING WITH WORK.
- Ⓝ CONTRACTOR SHALL PROVIDE A COMPLETE WORKING SYSTEM, & WARRANT ALL MATERIALS FREE FROM DEFECTS FOR A PERIOD NOT LESS THAN 1 YEAR.
- Ⓞ THESE PLANS ACCURATE FOR RAIN WATER HARVESTING SYSTEM ONLY.
- Ⓟ CONTRACTOR SHALL VERIFY LOCATION OF PRESSURE PUBLIC WATER MAIN AND ALL UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION, AND MAINTAIN ALL APPLICABLE SETBACKS PER PLUMBING CODE.

**3 CONSTRUCTION NOTES**  
 Scale: N.T.S.

- 1. THESE PLANS ARE ACCURATE FOR RAIN WATER HARVESTING SYSTEM ONLY.
- 2. RAIN WATER HARVESTING SYSTEM PLANS ARE BASED ON THE FOLLOWING:  
 (A) ARCHITECTURAL PLANS PROVIDED BY KONING EIZENBERG ARCHITECTURE, DATED MAY 7, 2012; (B) GRADING AND DRAINAGE PLANS PROVIDED BY KPFF CONSULTING ENGINEERS, DATED AUGUST 25, 2003 AND FEBRUARY 21, 2012; (C) PLUMBING PLANS PROVIDED BY GLUMAC, DATED FEBRUARY 21, 2012; (D) ELECTRICAL PLANS PROVIDED BY GLUMAC, DATED FEBRUARY 21, 2012.
- 3. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. THE CONTRACTOR IS CAUTIONED THAT ONLY EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. HOWEVER, THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES, OR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH ARE NOT SHOWN ON THESE DRAWINGS.
- 4. IN THE EVENT THAT THE SUBSURFACE OR LATENT PHYSICAL CONDITIONS ARE FOUND MATERIALLY DIFFERENT FROM THOSE INDICATED IN THESE DOCUMENTS, AND DIFFERING MATERIALLY FROM THOSE ORDINARILY ENCOUNTERED AND GENERALLY RECOGNIZED AS INHERENT IN THE CHARACTER OF WORK COVERED IN THESE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY, AND BEFORE SUCH CONDITIONS ARE DISTURBED, NOTIFY THE ENGINEER IN WRITING OF SUCH CHANGED CONDITIONS.
- 5. PROVIDE SCREEN ON VENT(S) SO THAT VENT(S) ARE PROTECTED FROM VERMIN/ MOSQUITOES
- 6. REFER TO ALL GENERAL NOTES ON THE TITLE SHEET W-1 AND CONSTRUCTION NOTES PER DETAIL 3 THIS SHEET.

**4 GENERAL NOTES**  
 Scale: N.T.S.

- Ⓐ EXACT MATERIALS LIST AND SPECIFICATIONS ARE PROVIDED BY THE MANUFACTURER. MATERIALS SPECIFICATIONS PER THESE PLANS ARE INTENDED TO ASSIST THE CONTRACTOR IN THE SELECTION OF MATERIALS NECESSARY AND APPROPRIATE TO COMPLETE THE INSTALLATION OF A RAIN WATER HARVESTING SYSTEM AT THE SUBJECT PROPERTY. ADDITIONAL COMPONENTS WILL BE NECESSARY, THAT INCLUDE BUT ARE NOT LIMITED TO PIPING, ELECTRICAL CONDUIT, FITTINGS, AGGREGATE MATERIALS AND MULCH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCURATELY ESTIMATE THE TYPE AND QUANTITY OF MATERIALS THAT WILL BE NECESSARY TO COMPLETE THE INSTALLATION PER THE SYSTEM DESIGNER'S, MANUFACTURER'S, AND PERTINENT REGULATORY AGENCIES SATISFACTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT SHOP DRAWINGS AND A LIST OF ALL MATERIALS TO THE SYSTEM DESIGNER FOR APPROVAL PRIOR TO PURCHASE.

**5 MATERIALS LIST**  
 Scale: N.T.S.

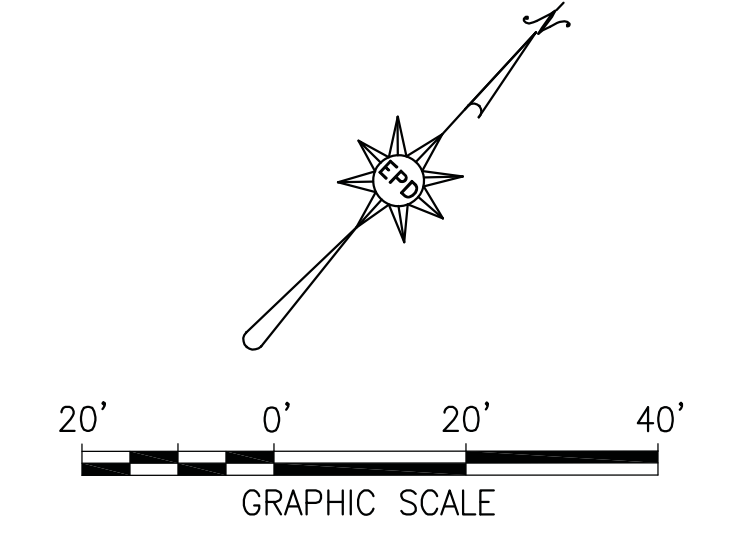
- Ⓐ INSPECT AND CLEAN FILTER AND SCREENS, AND REPLACE (IF NECESSARY) EVERY 3 MONTHS MINIMUM.
- Ⓑ INSPECT AND VERIFY THAT DISINFECTION, FILTERS AND WATER QUALITY TREATMENT DEVICES AND SYSTEMS ARE OPERATIONAL AND MAINTAINING MINIMUM WATER QUALITY REQUIREMENTS AS DETERMINED BY THE AUTHORITY HAVING JURISDICTION, AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- Ⓒ INSPECT AND CLEAR DEBRIS FROM RAIN WATER GUTTERS, DOWNSPOUTS, AND ROOF WASHERS EVERY 6 MONTHS MINIMUM.
- Ⓓ INSPECT AND CLEAR DEBRIS FROM ROOF AND OTHER ABOVE GROUND RAIN WATER COLLECTION SURFACES EVERY 6 MONTHS MINIMUM.
- Ⓔ REMOVE TREE BRANCHES AND VEGETATION OVERHANGING ROOF OR OTHER ABOVE GROUND RAIN WATER COLLECTION SURFACES AS NEEDED.
- Ⓕ INSPECT PUMPS AND VERIFY OPERATION AFTER INITIAL INSTALLATION AND EVERY 12 MONTHS THERE AFTER.
- Ⓖ INSPECT VALVES AND VERIFY OPERATION AFTER INITIAL INSTALLATION AND EVERY 12 MONTHS THERE AFTER.
- Ⓗ INSPECT PRESSURE TANKS AND VERIFY OPERATION AFTER INITIAL INSTALLATION AND EVERY 12 MONTHS THERE AFTER.
- Ⓘ CLEAR DEBRIS FROM AND INSPECT STORAGE TANKS, LOCKING DEVICES AND VERIFY OPERATION AFTER INITIAL INSTALLATION AND EVERY 12 MONTHS THERE AFTER.
- Ⓙ INSPECT CAUTION LABELS AND MARKINGS AFTER INITIAL INSTALLATION AND EVERY 12 MONTHS THERE AFTER.
- Ⓚ INSPECT AND MAINTAIN MULCH BASINS AS NEEDED TO MAINTAIN MULCH DEPTH AND PREVENT PONDING AND RUNOFF.
- Ⓛ INSPECT CROSS CONNECTIONS AND TEST AFTER INITIAL INSTALLATION AND EVERY 12 MONTHS THERE AFTER. THE CROSS CONNECTION TEST SHALL BE PERFORMED IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE PLUMBING CODE.
- Ⓜ TEST WATER QUALITY OF RAIN WATER CATCHMENT SYSTEMS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION PROCEDURES TO MAINTAIN A MINIMUM WATER QUALITY EVERY 3 TO 12 MONTHS, OR AFTER ANY SYSTEM RENOVATION OR REPAIR.

**6 RWS MINIMUM SOURCE TESTING, INSPECTION, AND MAINTENANCE**  
 Scale: N.T.S.

**PROPRIETARY MANUFACTURER NOTES:**  
 1. ALL PROPRIETARY SPECIFICATIONS ARE "OR EQUAL" SUBJECT TO WRITTEN APPROVAL OF SUBMITTAL BY ENGINEER.



**1 RAIN WATER HARVESTING SYSTEM SITE PLAN**  
 Scale: 1"=20'



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ARCHITECTS PROJECT NO. **1001**

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ISSUE  
**RAINWATER HARVESTING**  
 DATE  
 07.24.12  
 DRAWING NO. **6693**  
 SHEET TITLE  
**RAIN WATER HARVESTING SYSTEM SITE PLAN**  
 SHEET NO.  
**W-2**

**LEGEND & ABBREVIATIONS:**

- PROPERTY LINE
- BUILDING OUTLINE
- RWS FORCE MAIN
- RWS ELECTRICAL LINE
- RWS AIR LINE
- RW-TW-RW-TW POTABLE WATER FEED LINE
- RW-PW-RW-PW POTABLE WATER FEED LINE
- SD-SW-SW-SW STORM DRAIN
- SW-SW-SW-SW SANITARY SEWER
- DW-DW-DW-DW DOMESTIC WATER SUPPLY LINE
- E-E-E-E-ELECTRICAL UTILITY LINE
- G-G-G-G-GAS UTILITY LINE
- FW-FW-FW-FW FIRE WATER LINE

- ▣ NORMALLY OPEN VALVE
- ▣ NORMALLY CLOSED VALVE
- ⊕ BALL VALVE
- ⊕ CHECK VALVE
- ⊕ HOSE BIB
- ⊕ SOLENOID VALVE
- ⊕ BACKWATER VALVE
- ⊕ REVERSE PRESSURE PRINCIPAL (RP)
- ⊕ BACKFLOW PREVENTER
- ⊕ SAMPLE PORT
- ⊕ PUMP
- ⊕ DIAMETER
- ⊕ ANTHRACITE FILTER ARRAY
- ⊕ BLADDER TANK
- ⊕ CARBON FILTER ARRAY
- ⊕ CONTROL PANEL
- ⊕ CALIFORNIA PLUMBING CODE
- ⊕ COPPER DISINFECTION
- ⊕ DOMESTIC WATER LINE
- ⊕ ELECTRICAL LINE
- ⊕ EVERGREEN SYSTEM BY RWS
- ⊕ ELEVATION
- ⊕ FORCE MAIN
- ⊕ FINISHED SURFACE
- ⊕ GAS LINE
- ⊕ INVERT
- ⊕ MANUFACTURER
- ⊕ PUMP NUMBER
- ⊕ PROPERTY LINE
- ⊕ POTABLE WATER
- ⊕ TREATED WATER (RECYCLED)
- ⊕ RAIN WATER SYSTEM
- ⊕ RAIN WATER TANK
- ⊕ SAND FILTER ARRAY
- ⊕ STORM DRAIN
- ⊕ SANITARY SEWER
- ⊕ TOP OF GRATE
- ⊕ TREATED WATER TANK
- ⊕ ULTRAVIOLET DISINFECTION
- ⊕ VORTEX FILTER

1. THESE PLANS ARE ACCURATE FOR RAIN WATER HARVESTING SYSTEM ONLY.
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4. IN THE EVENT THAT THE SUBSURFACE OR LATENT PHYSICAL CONDITIONS ARE FOUND MATERIALLY DIFFERENT FROM THOSE INDICATED IN THESE DOCUMENTS, AND DIFFERING MATERIALLY FROM THOSE ORDINARILY ENCOUNTERED AND GENERALLY RECOGNIZED AS INHERENT IN THE CHARACTER OF WORK COVERED IN THESE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY, AND BEFORE SUCH CONDITIONS ARE DISTURBED, NOTIFY THE ENGINEER IN WRITING OF SUCH CHANGED CONDITIONS.
5. PROVIDE SCREEN ON VENT(S) SO THAT VENT(S) ARE PROTECTED FROM VERMIN/ MOSQUITOES
6. REFER TO ALL GENERAL NOTES ON THE TITLE SHEET W-1 AND CONSTRUCTION NOTES PER DETAIL 3 SHEET W-2.

**3 GENERAL NOTES**

Scale: N.T.S.

- (A) EXACT MATERIALS LIST AND SPECIFICATIONS ARE PROVIDED BY THE MANUFACTURER. MATERIALS SPECIFICATIONS PER THESE PLANS ARE INTENDED TO ASSIST THE CONTRACTOR IN THE SELECTION OF MATERIALS NECESSARY AND APPROPRIATE TO COMPLETE THE INSTALLATION OF A RAIN WATER HARVESTING SYSTEM AT THE SUBJECT PROPERTY. ADDITIONAL COMPONENTS WILL BE NECESSARY, THAT INCLUDE BUT ARE NOT LIMITED TO PIPING, ELECTRICAL CONDUIT, FITTINGS, AGGREGATE MATERIALS AND MULCH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCURATELY ESTIMATE THE TYPE AND QUANTITY OF MATERIALS THAT WILL BE NECESSARY TO COMPLETE THE INSTALLATION PER THE SYSTEM DESIGNER'S, MANUFACTURER'S, AND PERTINENT REGULATORY AGENCIES SATISFACTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT SHOP DRAWINGS AND A LIST OF ALL MATERIALS TO THE SYSTEM DESIGNER FOR APPROVAL PRIOR TO PURCHASE.**

**4 MATERIALS LIST**

Scale: N.T.S.

- ① VF-1: VORTEX RAIN WATER FILTER 1, CONTECH STORMWATER SOLUTIONS CDS2015-4 FILTER IN H-20 TRAFFIC RATED 48"Ø PRECAST CONCRETE STORM WATER BASIN WITH 30"Ø H-20 TRAFFIC RATED CAST IRON FRAME. COVER AND RISERS TO GRADE PER MFR.
- ② RWT-1: RAIN WATER TANK 1, CONTAINMENT SOLUTIONS MODEL SWT D-6 10'Ø, 12,000-GAL BELOW GROUND FRP CISTERN WITH TWO (2) 30"Ø LIDS/RISERS PER MFR WITH EBW H-20 TRAFFIC RATED SLAB/LID AT GRADE. TANK CONTAINS ONE (1) 1/2 HP FILTRATION PUMP. TANK SHALL BE GAS AND WATERTIGHT AND VENTED TO ROOF PER CPC.
- ③ 2"Ø AND 6"Ø SPEARS PVC BACKWATER VALVES MODEL NO. S275P OR S675P. OR APPROVED EQUAL FOR SD AND SS LINES WITH H-20 TRAFFIC RATED SLAB AND GROUND LEVEL ACCESS KIT FOR ROUTINE MAINTENANCE.
- ④ TWT-1: TREATED WATER TANK 1, 46"Ø CHEM-TAINER 305-GAL ABOVE GROUND FRP TREATED WATER TANK PER MFR WITH ONE (1) 1/2 HP SUPPLY PUMP AND ONE (1) 1/2 HP RECIRCULATION PUMP. TANK SHALL BE GAS AND WATERTIGHT.
- ⑤ S-1: SAND FILTER 1, 18"Ø ABOVE GROUND SAND MEDIA FILTER, INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- ⑥ A-1: ANTHRACITE FILTER 1, 16"Ø ABOVE GROUND ANTHRACITE MEDIA FILTER, INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- ⑦ C-1: CARBON FILTER 1, 16"Ø ABOVE GROUND GRANULAR ACTIVATED CARBON MEDIA FILTER, INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- ⑧ UV-1: ULTRAVIOLET FILTER 1, 3"Ø ABOVE GROUND ULTRAVIOLET DISINFECTION FILTER, INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- ⑨ Cu-1: COPPER FILTER 1, ABOVE GROUND ELECTROLYTIC COPPER IONIZATION DISINFECTION FILTER, INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- ⑩ BT-1: BLADDER TANK 1, 25"Ø ABOVE GROUND 80-GAL BLADDER TANK, WESSELS COMPANY MODEL FX-300V.
- ⑪ 1-1/4"Ø SCH 80 PVC TREATED WATER LINE FROM EGS-1 TO FLUSH FIXTURES.
- ⑫ 1-1/4"Ø COPPER POTABLE WATER FEED LINE FROM DOMESTIC WATER SERVICE TO TREATED WATER LINE.
- ⑬ PVC SDR 35 STORM DRAIN LINE BY OTHERS. CONTRACTOR TO VERIFY EXACT DEPTH AND LOCATION.
- ⑭ 8"Ø PVC SDR 35 STORM DRAIN FEED LINE. CONTRACTOR TO VERIFY EXACT DEPTH AND LOCATION.
- ⑮ 6"Ø PVC SDR 35 STORM DRAIN OVERFLOW FROM VF-1 AND RWT-1 TO STORM DRAIN LINE. CONTRACTOR TO VERIFY EXACT DEPTH AND LOCATION.
- ⑯ 2"Ø SCH 80 PVC FORCE MAIN.
- ⑰ 2"Ø SCH 80 PVC TREATED WATER LINE FROM UV-1 TO BT-1.
- ⑱ 2"Ø SCH 80 PVC SANITARY SEWER LINE FROM S-1, A-1 AND C-1 TO SANITARY SEWER SYSTEM.
- ⑲ MICROSEPTIC HIBLOW HP-120 ABOVE GROUND AIR COMPRESSOR OR EQUAL. CONTRACTOR TO LOCATE IN SHADED AREA AWAY OUT OF DIRECT SUBLIGHT OR PROVIDE SHADE COVER.
- ⑳ 1-1/4"Ø SCH 80 PVC AIR LINE FROM AIR COMPRESSOR TO RWT-1.
- ㉑ 3"Ø SCH 80 PVC VENT LINE WITH VENT SCREEN FROM RWT-1 TO ROOF PER CPC.
- ㉒ RWS CONTROL PANEL PER WATER RECYCLING SYSTEM. LICENSED ELECTRICIAN TO DETERMINE NUMBER AND SIZING OF WIRES.
- ㉓ RWS ELECTRICAL DISCONNECT PER WATER RECYCLING SYSTEM. LICENSED ELECTRICIAN TO DETERMINE NUMBER AND SIZING OF WIRES.
- ㉔ SQUARE D PRESSURE SWITCH CLASS 9013 TYPE GMG SERIES C INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- ㉕ 2"Ø AND 8"Ø PVC SAMPLE PORTS WITH CHRISTY G5 H-20 TRAFFIC RATED BOX IF LOCATED IN TRAFFIC AREA.

**5 RAIN WATER HARVESTING SYSTEM KEYNOTES**

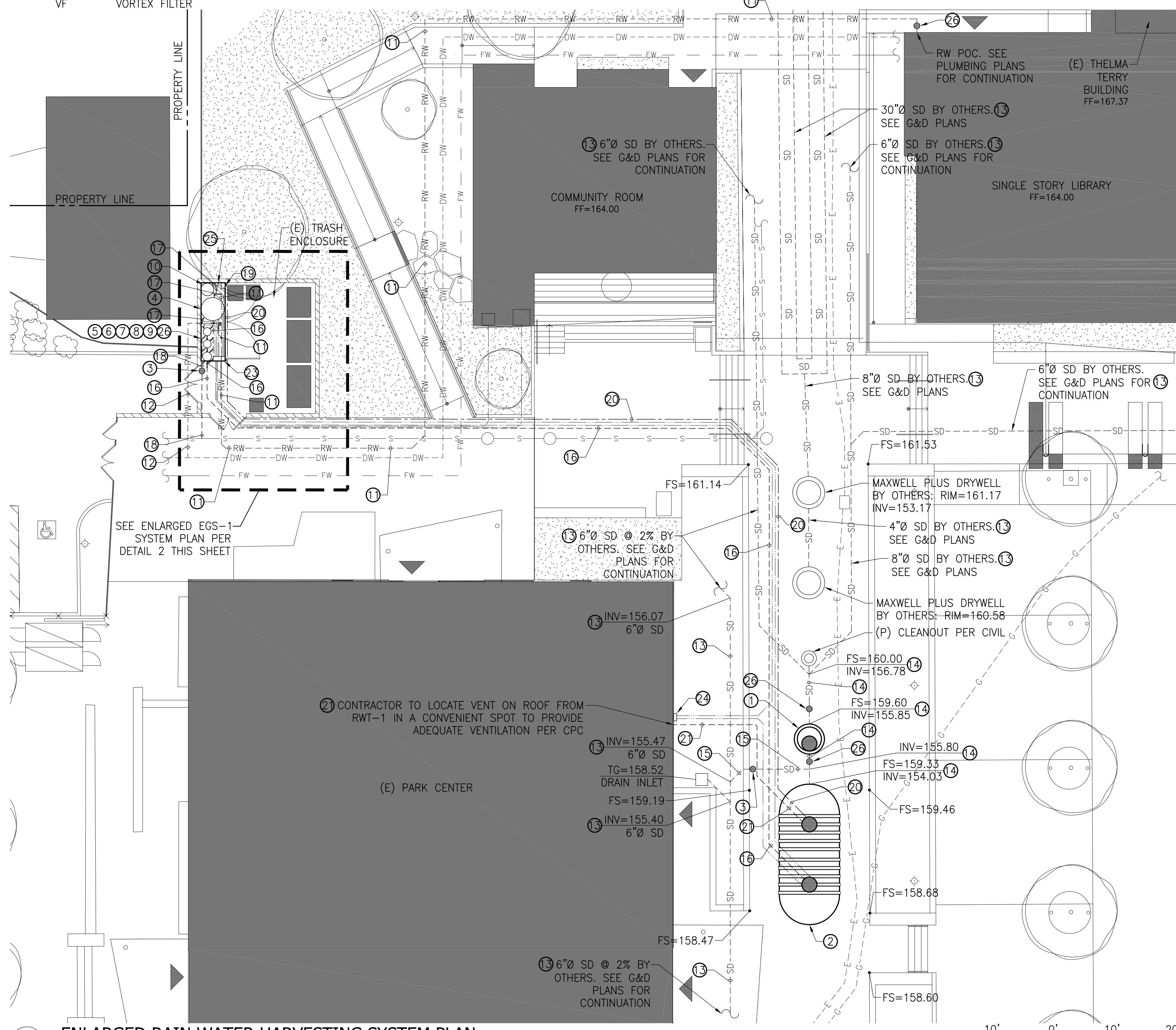
Scale: N.T.S.  
\*ALL ELECTRICAL PIPING PER KEYNOTE 22 SHOWN HEREON. REFER TO SHEET W-4 FOR ELECTRICAL PIPING DETAILS.

**PROPRIETARY MANUFACTURER NOTES:**  
1. ALL PROPRIETARY SPECIFICATIONS ARE "OR EQUAL" SUBJECT TO WRITTEN APPROVAL OF SUBMITTAL BY ENGINEER.

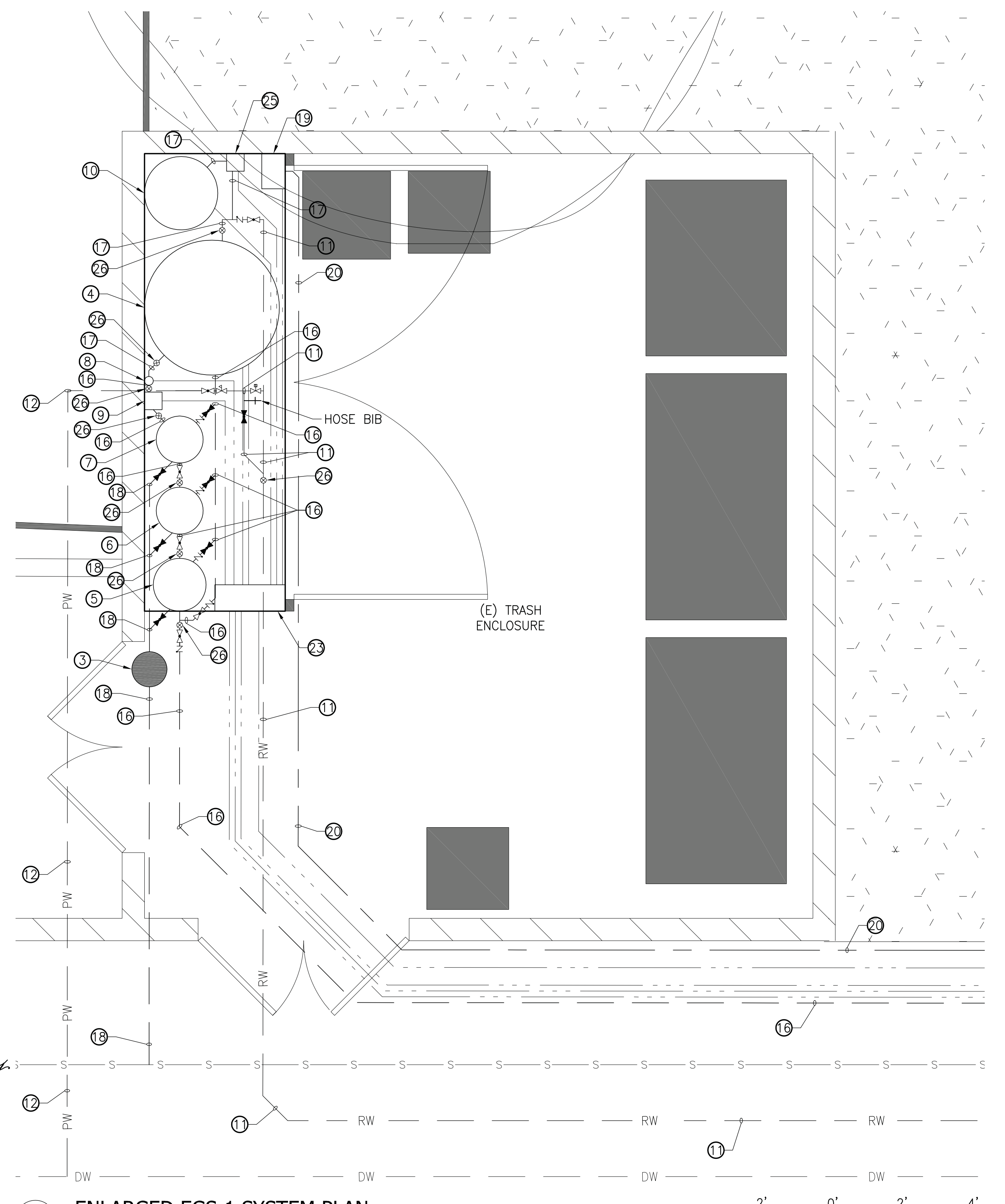
- (A) INSPECT AND CLEAN FILTER AND SCREENS, AND REPLACE (IF NECESSARY) EVERY 3 MONTHS MINIMUM.
- (B) INSPECT AND VERIFY THAT DISINFECTION, FILTERS AND WATER QUALITY TREATMENT DEVICES AND SYSTEMS ARE OPERATIONAL AND MAINTAINING MINIMUM WATER QUALITY REQUIREMENTS AS DETERMINED BY THE AUTHORITY HAVING JURISDICTION, AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- (C) INSPECT AND CLEAR DEBRIS FROM RAIN WATER GUTTERS, DOWNSPOUTS, AND ROOF WASHERS EVERY 6 MONTHS MINIMUM.
- (D) INSPECT AND CLEAR DEBRIS FROM ROOF AND OTHER ABOVE GROUND RAIN WATER COLLECTION SURFACES EVERY 6 MONTHS MINIMUM.
- (E) REMOVE TREE BRANCHES AND VEGETATION OVERHANGING ROOF OR OTHER ABOVE GROUND RAIN WATER COLLECTION SURFACES AS NEEDED.
- (F) INSPECT PUMPS AND VERIFY OPERATION AFTER INITIAL INSTALLATION AND EVERY 12 MONTHS THERE AFTER.
- (G) INSPECT VALVES AND VERIFY OPERATION AFTER INITIAL INSTALLATION AND EVERY 12 MONTHS THERE AFTER.
- (H) INSPECT PRESSURE TANKS AND VERIFY OPERATION AFTER INITIAL INSTALLATION AND EVERY 12 MONTHS THERE AFTER.
- (I) CLEAR DEBRIS FROM AND INSPECT STORAGE TANKS, LOCKING DEVICES AND VERIFY OPERATION AFTER INITIAL INSTALLATION AND EVERY 12 MONTHS THERE AFTER.
- (J) INSPECT CAUTION LABELS AND MARKINGS AFTER INITIAL INSTALLATION AND EVERY 12 MONTHS THERE AFTER.
- (K) INSPECT AND MAINTAIN MULCH BASINS AS NEEDED TO MAINTAIN MULCH DEPTH AND PREVENT PONDING AND RUNOFF.
- (L) INSPECT CROSS CONNECTIONS AND TEST AFTER INITIAL INSTALLATION AND EVERY 12 MONTHS THERE AFTER. THE CROSS CONNECTION TEST SHALL BE PERFORMED IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE PLUMBING CODE.
- (M) TEST WATER QUALITY OF RAIN WATER CATCHMENT SYSTEMS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION PROCEDURES TO MAINTAIN A MINIMUM WATER QUALITY EVERY 3 TO 12 MONTHS, OR AFTER ANY SYSTEM RENOVATION OR REPAIR.

**6 RWS MINIMUM SOURCE TESTING, INSPECTION, AND MAINTENANCE**

Scale: N.T.S.



**1 ENLARGED RAIN WATER HARVESTING SYSTEM PLAN**  
Scale: 1"=10'  
GRAPHIC SCALE



**2 ENLARGED EGS-1 SYSTEM PLAN**  
Scale: 1"=2'  
GRAPHIC SCALE



411 N. HARBOR BLVD., STE. 304  
SAN PEBRO, CA 90731  
Phone (310) 241-6565  
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CONSULTANT  
City of Santa Monica  
Architecture Services

1437 4TH STREET, SUITE 300  
SANTA MONICA, CA 90401  
TEL: (310) 458-2205  
FAX: (310) 389-1541  
architecture@smgov.net

SUBMITTED BY: DATE: 20

APPROVED BY: Miriam Muller, Architecture Services Manager  
CITY OF SANTA MONICA  
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY: DATE: 20

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REVIEWED BY: DATE: 20

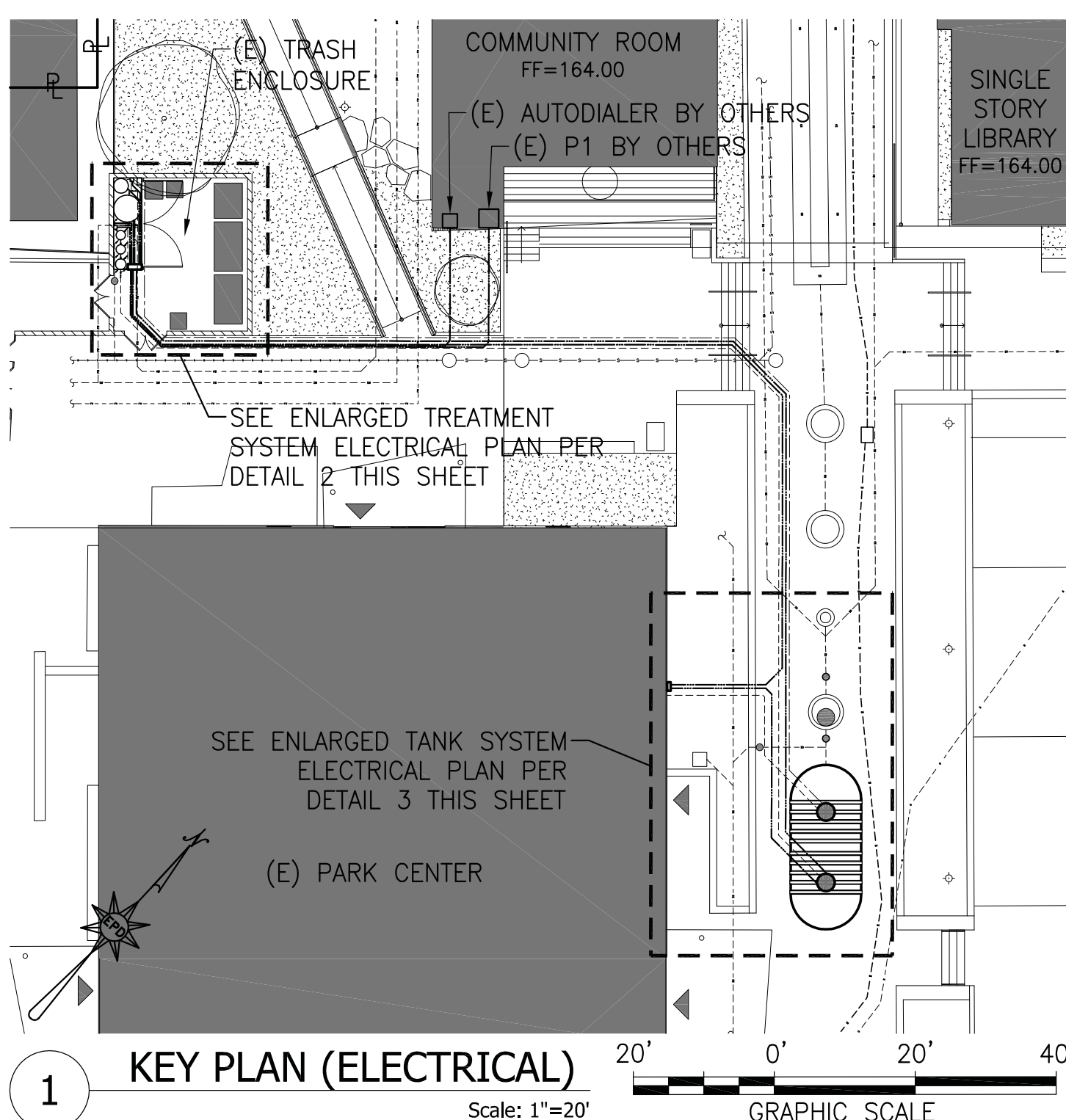
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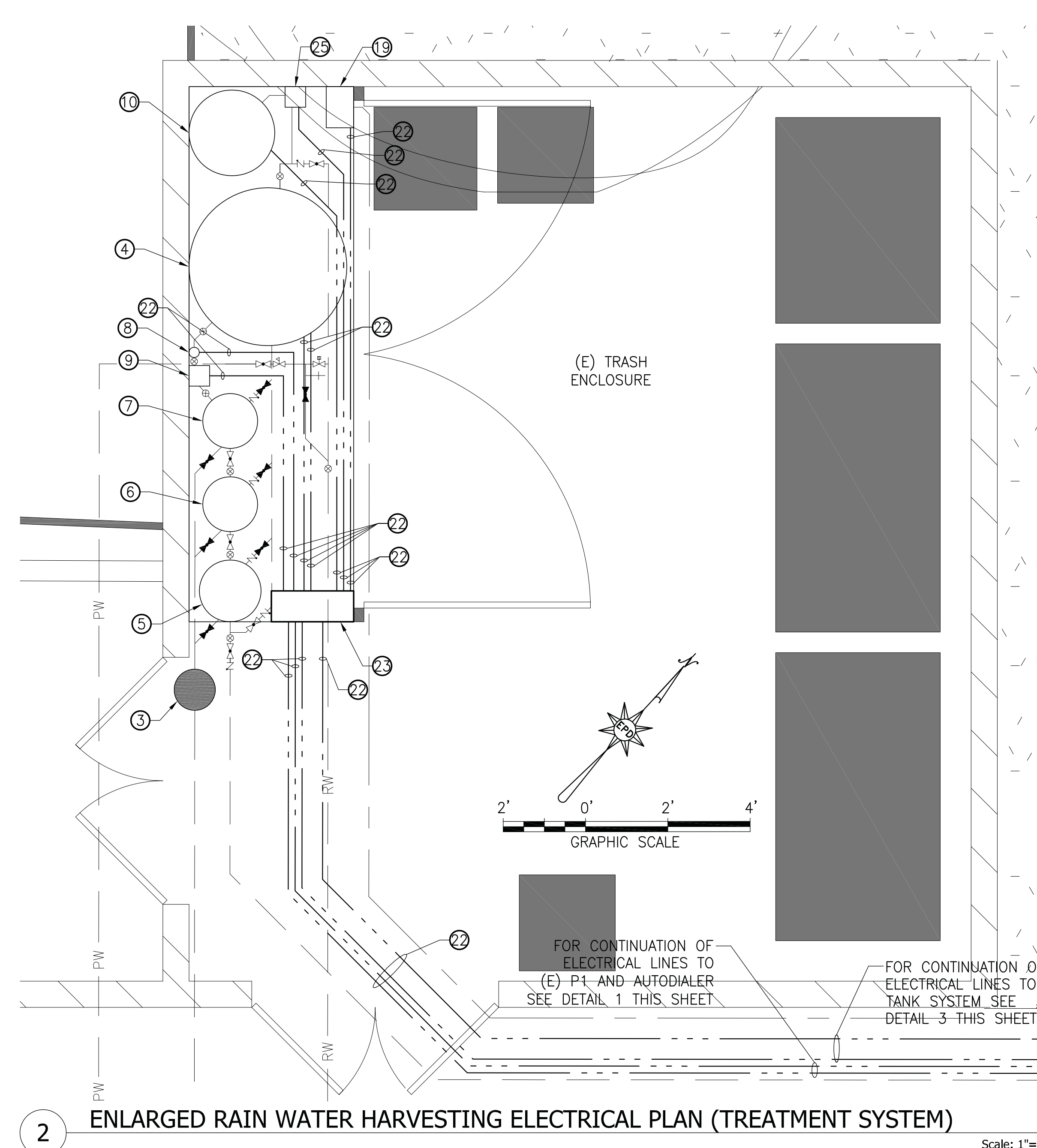
ISSUE  
**RAINWATER HARVESTING**  
DATE: 07.24.12  
DRAWING NO. 6693

SHEET TITLE  
**ENLARGED RAIN WATER HARVESTING SYSTEM PLAN**  
SHEET NO. W-3

SHEET NO. OF TITLE OF PROJECT



- LEGEND & ABBREVIATIONS:**
- PROPERTY LINE
  - BUILDING OUTLINE
  - RWS FORCE MAIN
  - RWS ELECTRICAL LINE
  - RWS AIR LINE
  - RW --- RW --- RW --- TREATED WATER FEED LINE
  - PW --- PW --- PW --- POTABLE WATER FEED LINE
  - SD --- SD --- SD --- STORM DRAIN
  - SS --- SS --- SS --- SANITARY SEWER
  - DW --- DW --- DW --- DOMESTIC WATER SUPPLY LINE
  - E --- E --- E --- ELECTRICAL UTILITY LINE
  - G --- G --- G --- GAS UTILITY LINE
  - FW --- FW --- FW --- FIRE WATER LINE
  - NO --- NO --- NO --- NORMALLY OPEN VALVE
  - NC --- NC --- NC --- NORMALLY CLOSED VALVE
  - BV --- BV --- BV --- BALL VALVE
  - CV --- CV --- CV --- CHECK VALVE
  - HB --- HB --- HB --- HOSE BIB
  - SV --- SV --- SV --- SOLENOID VALVE
  - BWPV --- BWPV --- BWPV --- BACKWATER VALVE
  - RPP --- RPP --- RPP --- REVERSE PRESSURE PRINCIPAL (RP)
  - BFP --- BFP --- BFP --- BACKFLOW PREVENTER
  - SP --- SP --- SP --- SAMPLE PORT
  - P --- P --- P --- PUMP
  - D --- D --- D --- DIAMETER
  - A --- ANTHRACITE FILTER ARRAY
  - BT --- BLADDER TANK
  - CP --- CONTROL PANEL
  - C --- CARBON FILTER ARRAY
  - CPC --- CALIFORNIA PLUMBING CODE
  - Cu --- COPPER DISINFECTION
  - DW --- DOMESTIC WATER LINE
  - E --- ELECTRICAL LINE
  - EGS-1 --- EVER GREEN SYSTEM BY WRS ELEVATION
  - FM --- FORCE MAIN
  - FS --- FINISHED SURFACE
  - G --- GAS LINE
  - INV --- INVERT
  - MFR --- MANUFACTURER
  - P --- PUMP NUMBER
  - PL --- PROPERTY LINE
  - PW --- POTABLE WATER
  - RW --- TREATED WATER (RECYCLED)
  - RWS --- RAIN WATER SYSTEM
  - RWT --- RAIN WATER TANK
  - S --- SAND FILTER ARRAY
  - SD --- STORM DRAIN
  - SS --- SANITARY SEWER
  - TG --- TOP OF GRATE
  - TWT --- TREATED WATER TANK
  - UV --- ULTRAVIOLET DISINFECTION
  - VF --- VORTEX FILTER



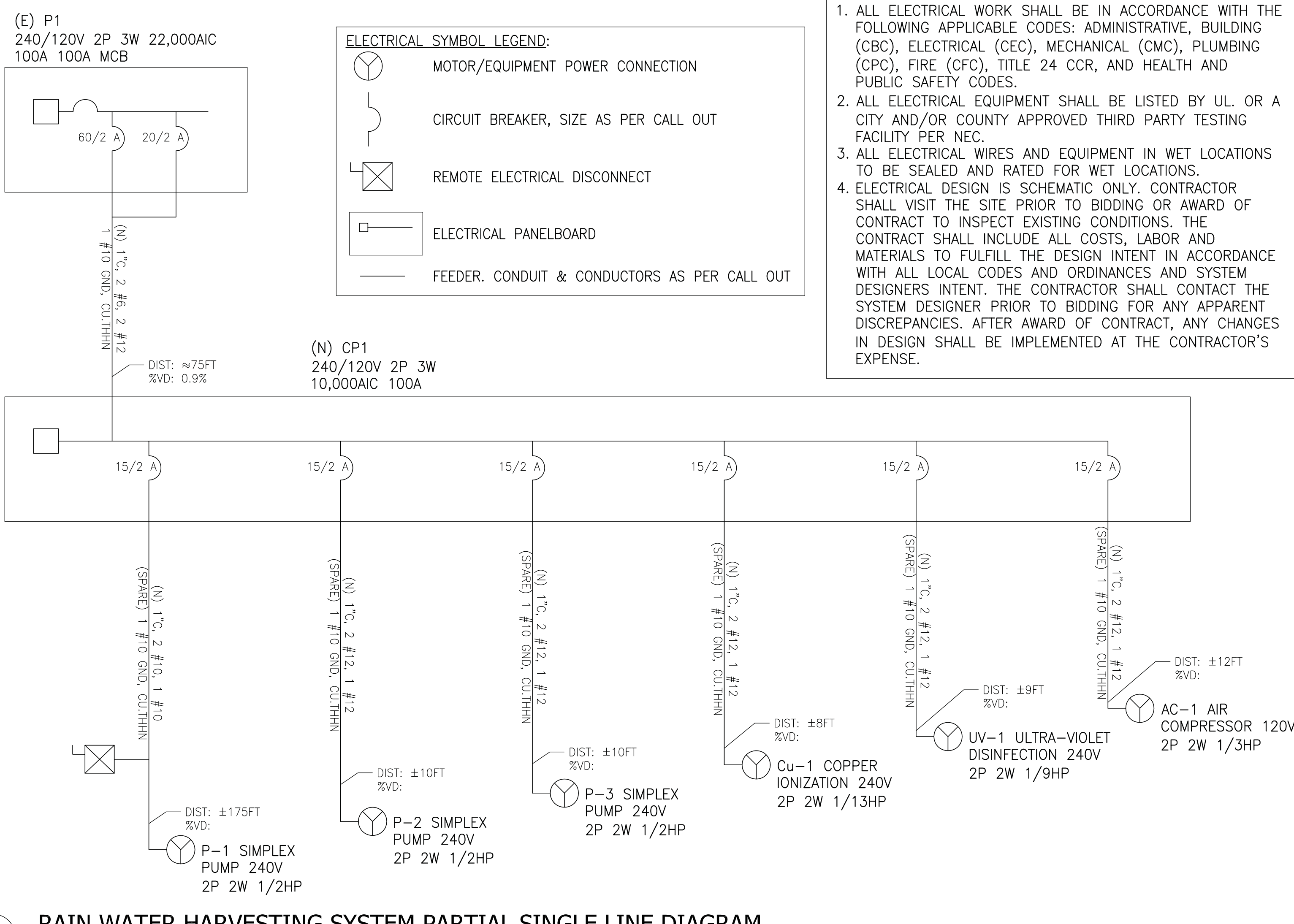
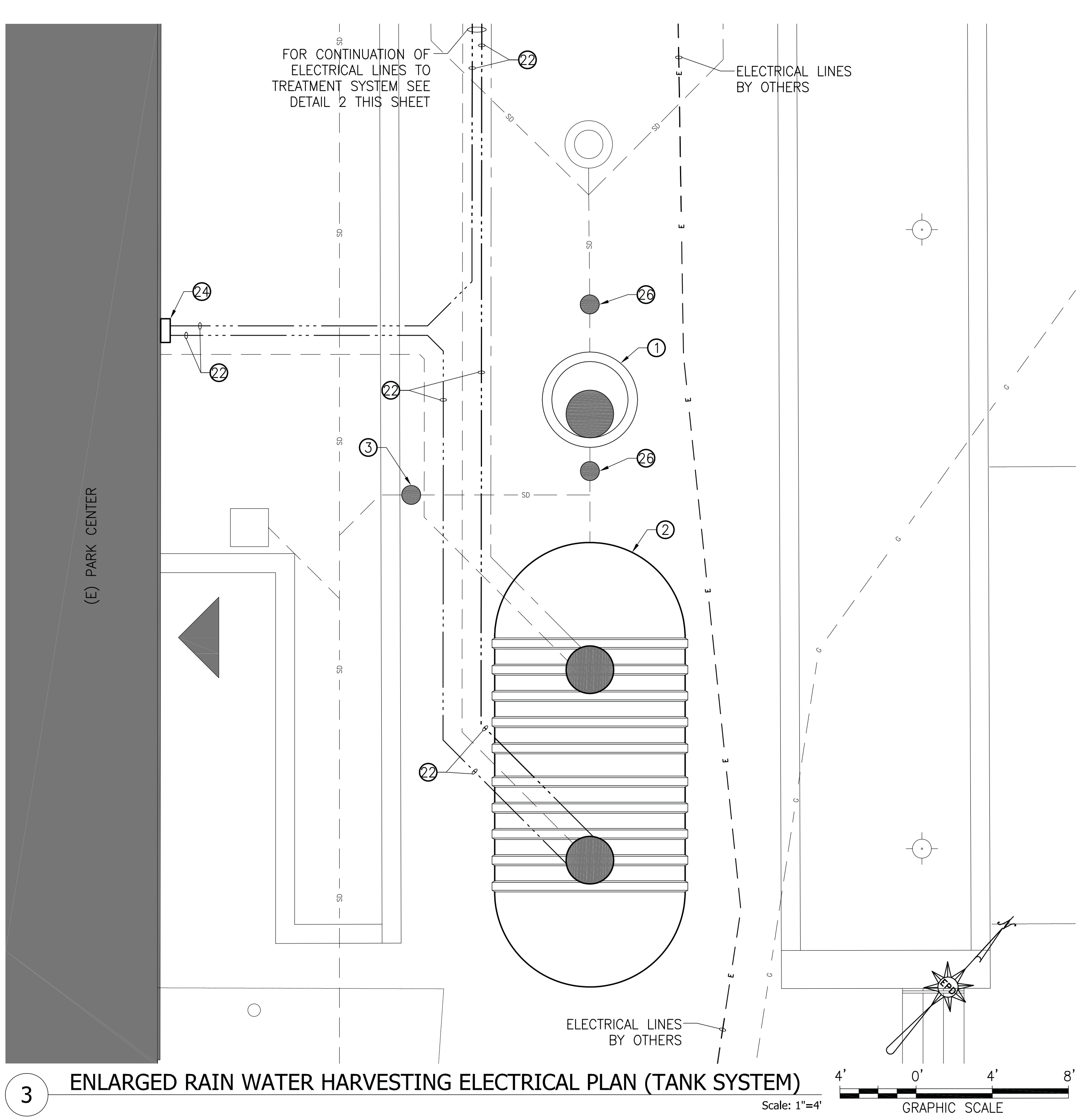
- GENERAL NOTES**
1. THESE PLANS ARE ACCURATE FOR RAIN WATER HARVESTING SYSTEM ONLY.
  2. RAIN WATER HARVESTING SYSTEM PLANS ARE BASED ON THE FOLLOWING: (A) ARCHITECTURAL PLANS PROVIDED BY KONING EISENBERG ARCHITECTURE, DATED MAY 7, 2012; (B) GRADING AND DRAINAGE PLANS PROVIDED BY KPFF CONSULTING ENGINEERS, DATED AUGUST 25, 2003 AND FEBRUARY 21, 2012; (C) PLUMBING PLANS PROVIDED BY GLUMAC, DATED FEBRUARY 21, 2012; (D) ELECTRICAL PLANS PROVIDED BY GLUMAC, DATED FEBRUARY 21, 2012.
  3. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. THE CONTRACTOR IS CAUTIONED THAT ONLY EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. HOWEVER, THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES, OR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH ARE NOT SHOWN ON THESE DRAWINGS.
  4. IN THE EVENT THAT THE SUBSURFACE OR LATENT PHYSICAL CONDITIONS ARE FOUND MATERIALLY DIFFERENT FROM THOSE INDICATED IN THESE DOCUMENTS, AND DIFFERING MATERIALLY FROM THOSE ORDINARILY ENCOUNTERED AND GENERALLY RECOGNIZED AS INHERENT IN THE CHARACTER OF WORK COVERED IN THESE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY, AND BEFORE SUCH CONDITIONS ARE DISTURBED, NOTIFY THE ENGINEER IN WRITING OF SUCH CHANGED CONDITIONS.
  5. REFER TO ALL GENERAL NOTES ON THE TITLE SHEET W-1 AND CONSTRUCTION NOTES PER DETAIL 3 SHEET W-2.

**PROPRIETARY MANUFACTURER NOTES:**  
1. ALL PROPRIETARY SPECIFICATIONS ARE "OR EQUAL" SUBJECT TO WRITTEN APPROVAL OF SUBMITTAL BY ENGINEER.

- 1 VF-1: VORTEX RAIN WATER FILTER 1, CONTECH STORMWATER SOLUTIONS ODS2015-4 FILTER IN H-20 TRAFFIC RATED 48"Ø PRECAST CONCRETE STORM WATER BASIN WITH 30"Ø H-20 TRAFFIC RATED CAST IRON FRAME, COVER AND RISERS TO GRADE PER MFR.
- 2 RWT-1: RAIN WATER TANK 1, CONTAINMENT SOLUTIONS MODEL SWT D-6 10'Ø, 12,000-GAL BELOW GROUND FRP CISTERN WITH TWO (2) 30"Ø LIDS/RISERS PER MFR WITH EBW H-20 TRAFFIC RATED SLAB/LID AT GRADE. TANK CONTAINS ONE (1) 1/2 HP FILTRATION PUMP. TANK SHALL BE GAS AND WATERTIGHT AND VENTED TO ROOF PER CPC.
- 3 2"Ø AND 6"Ø SPEARS PVC BACKWATER VALVES MODEL NO. S275P OR S675P, OR APPROVED EQUAL FOR SD AND SS LINES WITH H-20 TRAFFIC RATED SLAB AND GROUND LEVEL ACCESS KIT FOR ROUTINE MAINTENANCE.
- 4 TWT-1: TREATED WATER TANK 1, 46"Ø CHEM-TAINER 305-GAL ABOVE GROUND FRP TREATED WATER TANK PER MFR WITH ONE (1) 1/2 HP SUPPLY PUMP AND ONE (1) 1/2 HP RECIRCULATION PUMP. TANK SHALL BE GAS AND WATERTIGHT.
- 5 S-1: SAND FILTER 1, 18"Ø ABOVE GROUND SAND MEDIA FILTER, INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- 6 A-1: ANTHRACITE FILTER 1, 16"Ø ABOVE GROUND ANTHRACITE MEDIA FILTER, INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- 7 C-1: CARBON FILTER 1, 16"Ø ABOVE GROUND GRANULAR ACTIVATED CARBON MEDIA FILTER, INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- 8 UV-1: ULTRAVIOLET FILTER 1, 3"Ø ABOVE GROUND ULTRAVIOLET DISINFECTION FILTER, INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- 9 Cu-1: COPPER FILTER 1, ABOVE GROUND ELECTROLYTIC COPPER IONIZATION DISINFECTION FILTER, INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- 10 BT-1: BLADDER TANK 1, 25"Ø ABOVE GROUND 80-GAL BLADDER TANK, WESSELS COMPANY MODEL FX-300V.
- 11 MICROSETEC HIBLOW HP-120 ABOVE GROUND AIR COMPRESSOR OR EQUAL. CONTRACTOR TO LOCATE IN SHADED AREA AWAY OUT OF DIRECT SUNLIGHT OR PROVIDE SHADE COVER.
- 12 1"Ø SCH 80 PVC RWS ELECTRICAL LINES. CONTRACTOR SHALL HAVE LICENSED ELECTRICIAN DETERMINE THE NUMBER AND SIZING OF WIRES.
- 13 RWS CONTROL PANEL PER WATER RECYCLING SYSTEM. LICENSED ELECTRICIAN TO DETERMINE NUMBER AND SIZING OF WIRES.
- 14 RWS ELECTRICAL DISCONNECT PER WATER RECYCLING SYSTEM. LICENSED ELECTRICIAN TO DETERMINE NUMBER AND SIZING OF WIRES.
- 15 SQUARE D PRESSURE SWITCH CLASS 9013 TYPE GMG SERIES G INCLUDED IN EGS-1 WATER RECYCLING SYSTEMS EVERGREEN SYSTEM.
- 16 2"Ø AND 8"Ø PVC SAMPLE PORTS WITH CHRISTY G5 H-20 TRAFFIC RATED BOX IF LOCATED IN TRAFFIC AREA.

**RAIN WATER HARVESTING SYSTEM KEYNOTES**

\*ALL PROCESS PIPING PER KEYNOTES 11-18, 20-21 SHOWN HEREON. REFER TO SHEET W-3 FOR PROCESS PIPING DETAILS.



- ELECTRICAL NOTES:**
1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING APPLICABLE CODES: ADMINISTRATIVE, BUILDING (CBC), ELECTRICAL (CEC), MECHANICAL (CMC), PLUMBING (CPC), FIRE (CFC), TITLE 24 CCR, AND HEALTH AND PUBLIC SAFETY CODES.
  2. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY UL OR A CITY AND/OR COUNTY APPROVED THIRD PARTY TESTING FACILITY PER NEC.
  3. ALL ELECTRICAL WIRES AND EQUIPMENT IN WET LOCATIONS TO BE SEALED AND RATED FOR WET LOCATIONS.
  4. ELECTRICAL DESIGN IS SCHEMATIC ONLY. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING CONDITIONS. THE CONTRACT SHALL INCLUDE ALL COSTS, LABOR AND MATERIALS TO FULFILL THE DESIGN INTENT IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES AND SYSTEM DESIGNERS INTENT. THE CONTRACTOR SHALL CONTACT THE SYSTEM DESIGNER PRIOR TO BIDDING FOR ANY APPARENT DISCREPANCIES. AFTER AWARD OF CONTRACT, ANY CHANGES IN DESIGN SHALL BE IMPLEMENTED AT THE CONTRACTOR'S EXPENSE.

All designs, ideas, arrangements and plans indicated by these drawings are the property and copyright of the Architect and shall neither be used, on any other work nor be disclosed to any other person for any use whatsoever without written permission.

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FAX (310) 389-1541  
architecture@simgov.net

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APPROVED BY:	DATE: ____/____/20__
REVIEWED BY:	DATE: ____/____/20__
REVIEWED BY:	DATE: ____/____/20__
REVIEWED BY:	DATE: ____/____/20__

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07-24-12		BULLETIN 2	
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**RAINWATER HARVESTING**  
DATE: 07.24.12  
DRAWING NO. **6693**

LEGEND & ABBREVIATIONS:

- RWS FORCE MAIN
- S- RWS SANITARY SEWER
- RWS ELECTRICAL LINE
- RWS AIR LINE
- TREATED WATER FEED LINE
- POTABLE WATER FEED LINE
- STORM DRAIN
- DOMESTIC WATER SUPPLY LINE
- ⊗ NORMALLY OPEN VALVE
- ⊗ NORMALLY CLOSED VALVE
- ⊗ BALL VALVE
- ⊗ CHECK VALVE
- ⊗ HOSE BIB
- ⊗ SOLENOID VALVE
- ⊗ BACKWATER VALVE
- ⊗ REVERSE PRESSURE PRINCIPAL (RP) BACKFLOW PREVENTER
- ⊗ SAMPLE PORT
- ⊗ PUMP
- ⊗ DIAMETER
- A ANTHRACITE FILTER ARRAY
- BT BLADDER TANK
- C CARBON FILTER ARRAY
- CP CONTROL PANEL
- CPC CALIFORNIA PLUMBING CODE
- CU COPPER DISINFECTION
- DW DOMESTIC WATER LINE
- E ELECTRICAL LINE
- EGS-1 EVER GREEN SYSTEM BY WRS
- ELEV ELEVATION
- FM FORCE MAIN
- FS FINISHED SURFACE
- G GAS LINE
- INV INVERT
- MFR MANUFACTURER
- P-X PUMP NUMBER
- P PROPERTY LINE
- PW POTABLE WATER
- RW TREATED WATER (RECYCLED)
- RWS RAIN WATER SYSTEM
- RWT RAIN WATER TANK
- S SAND FILTER ARRAY
- SD STORM DRAIN
- SS SANITARY SEWER
- TG TOP OF GRADE
- TWT TREATED WATER TANK
- UV ULTRAVIOLET DISINFECTION
- VF VORTEX FILTER

WATER RECYCLING SYSTEMS  
1715 VIA EL PRADO #414  
REDONDO BEACH, CA 90277  
TEL: 310.463.2634  
WWW.REUSEGRAYWATER.COM

EQUIPMENT TABLE			
TYPE	SIZE	MANUFACTURER	PRODUCT #
BALL VALVE	1-1/4"	SPEARS PVC TRUE UNION BALL VALVE	USA BLUEBOOK STOCK #76903
BALL VALVE	2"	SPEARS PVC TRUE UNION BALL VALVE	USA BLUEBOOK STOCK #76905
CHECK VALVE	1-1/4"	SPEARS PVC TRUE UNION CHECK VALVE	SPEARS #2223-012
CHECK VALVE	2"	SPEARS PVC TRUE UNION CHECK VALVE	SPEARS #2223-020
SOLENOID VALVE	1-1/4"	BURKERT BRASS SOLENOID VALVE	USA BLUEBOOK STOCK #72699
BACKWATER VALVE	2"	SPEARS PVC BACKWATER VALVE WITH EXTENSIONS	USA BLUEBOOK STOCK #28282
BACKWATER VALVE	6"	SPEARS PVC BACKWATER VALVE WITH EXTENSIONS	USA BLUEBOOK STOCK #28285
HOSE BIB	3/4"	J.R. SMITH NON-FREEZE ABOVE GROUND HYDRANT	J.R. SMITH MODEL #5616
BACKFLOW PREVENTER	1-1/4"	WILKINS 975XL RPZ BRASS BACKFLOW PREVENTER	USA BLUEBOOK STOCK #15873

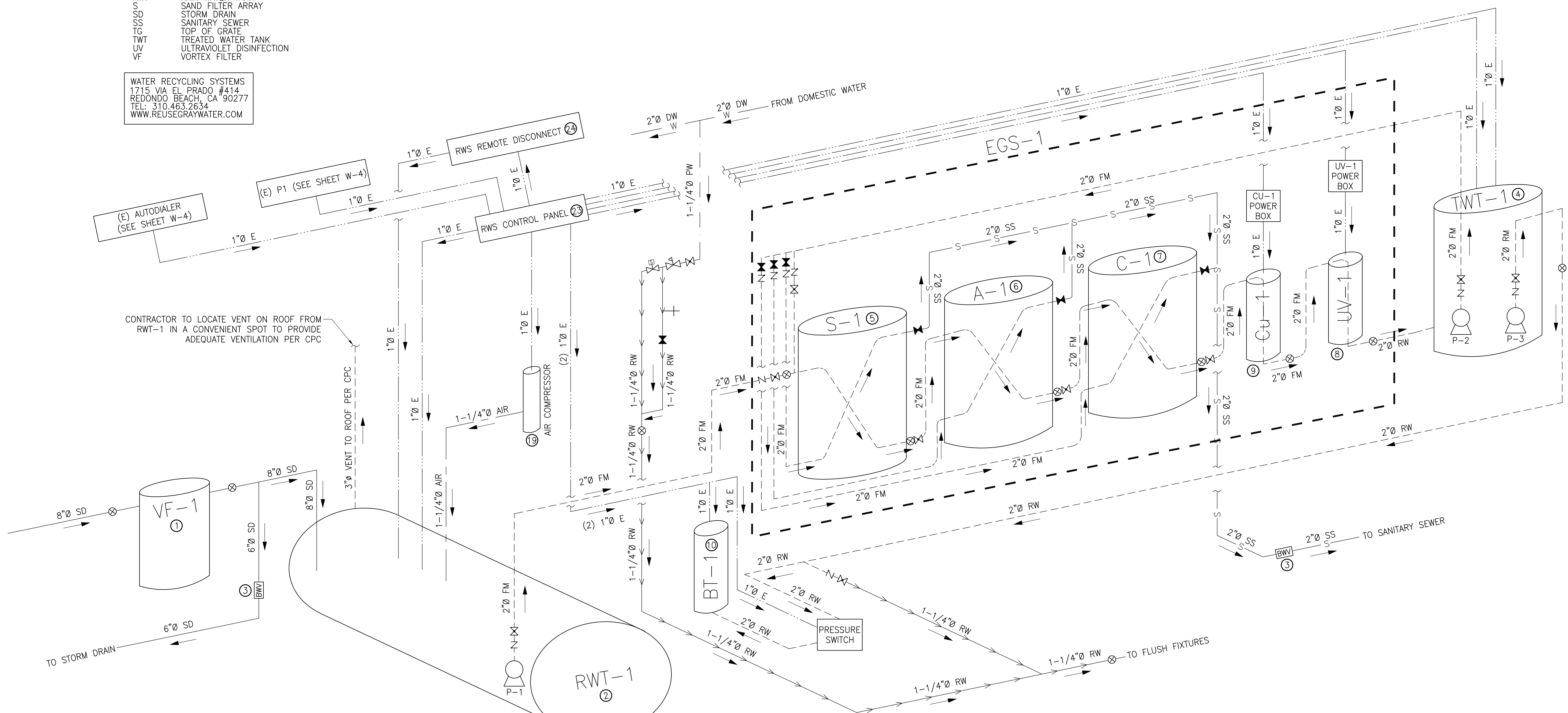
ALL RAIN WATER HARVESTING EQUIPMENT COMPONENTS LISTED IN THE EQUIPMENT TABLE ARE "OR EQUAL" SUBJECT TO WRITTEN APPROVAL OF SUBMITTAL BY ENGINEER.

PROPRIETARY MANUFACTURER NOTES:  
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- 3 2"Ø AND 6"Ø SPEARS PVC BACKWATER VALVES MODEL NO. S275P OR S675P, OR APPROVED EQUAL FOR SD AND SS LINES WITH H-20 TRAFFIC RATED SLAB AND GROUND LEVEL ACCESS KIT FOR ROUTINE MAINTENANCE.
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- 11 MICROSEPTEC HIBLOW HP-120 ABOVE GROUND AIR COMPRESSOR OR EQUAL. CONTRACTOR TO LOCATE IN SHADED AREA AWAY OUT OF DIRECT SUBLIGHT OR PROVIDE SHADE COVER.
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- 15 2"Ø AND 8"Ø PVC SAMPLE PORTS WITH CHRISTY G5 H-20 TRAFFIC RATED BOX IF LOCATED IN TRAFFIC AREA.

2 RAIN WATER HARVESTING SYSTEM KEYNOTES

Scale: N.T.S.



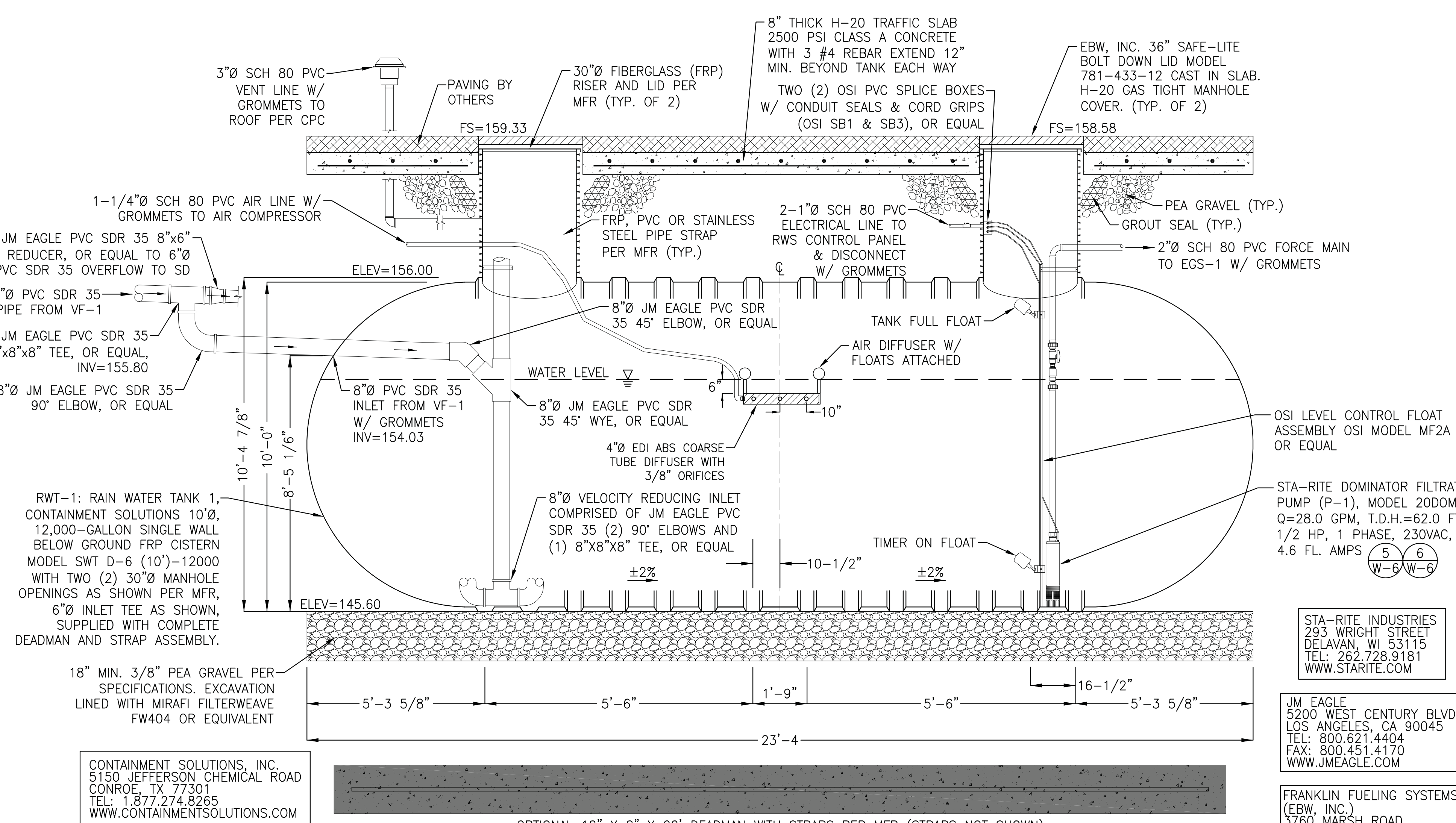
1 PROCESS FLOW SCHEMATIC / ISOMETRIC

Scale: N.T.S.



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APPROVED BY:	DATE: _____ 20__
REVIEWED BY:	DATE: _____ 20__
REVIEWED BY:	DATE: _____ 20__
REVIEWED BY:	DATE: _____ 20__

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NO.	DATE
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CONTAINMENT SOLUTIONS, INC.  
5150 JEFFERSON CHEMICAL ROAD  
CONROE, TX 77301  
TEL: 1.877.274.8265  
WWW.CONTAINMENTSOLUTIONS.COM

STA-RITE INDUSTRIES  
293 WRIGHT STREET  
DELAWARE, WI 53115  
TEL: 262.728.9181  
WWW.STARITE.COM

JM EAGLE  
5200 WEST CENTURY BLVD.  
LOS ANGELES, CA 90045  
TEL: 800.621.4404  
FAX: 800.451.4170  
WWW.JMEAGLE.COM

FRANKLIN FUELING SYSTEMS  
(EBW, INC.)  
3760 MARSH ROAD  
MADISON, WI 53718  
TEL: 562.480.0167

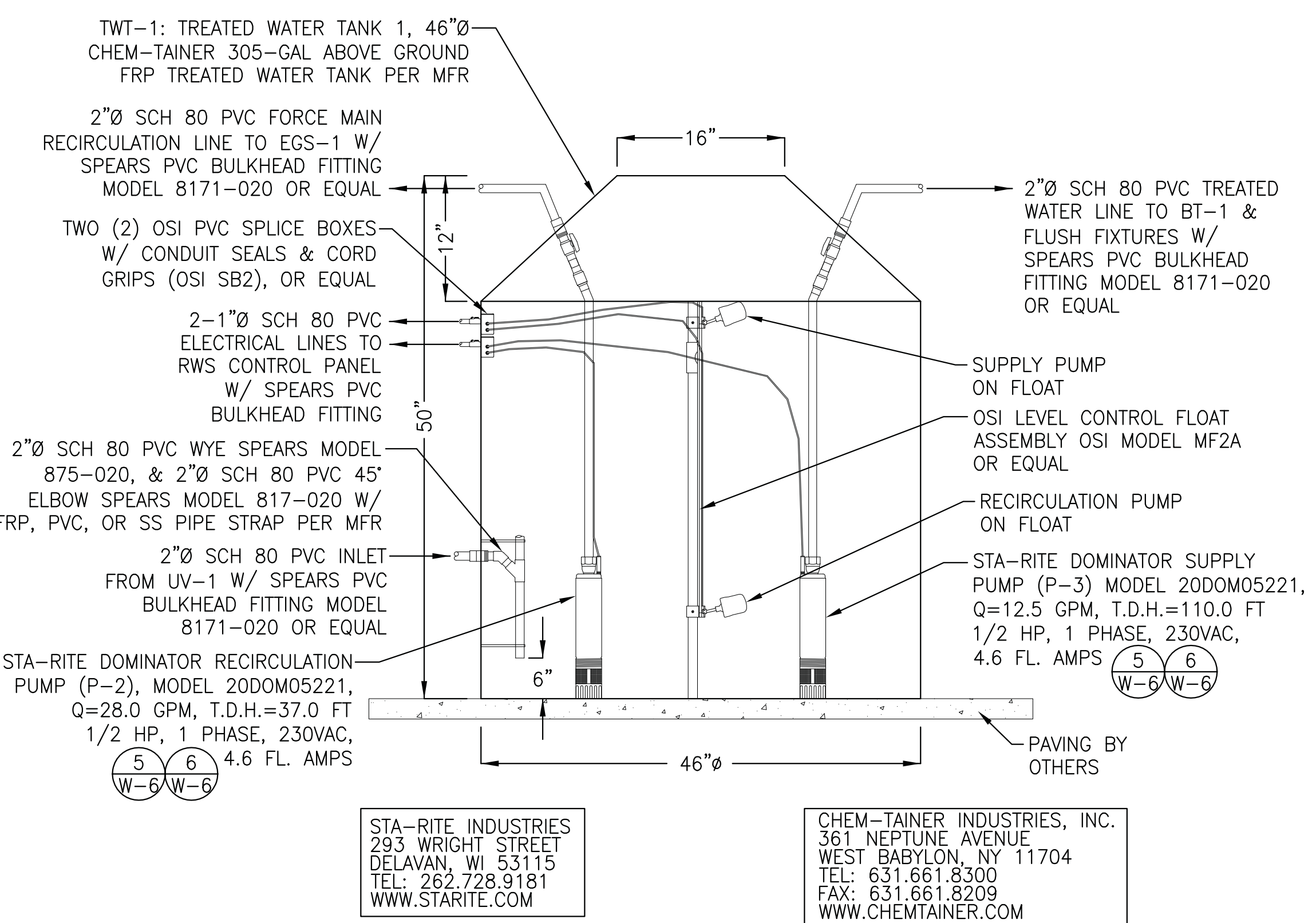
**GENERAL NOTES:**

- CONTRACTOR SHALL FOLLOW TANK MANUFACTURER'S INSTALLATION INSTRUCTIONS. FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT CONTAINMENT SOLUTIONS OR WATER RECYCLING SYSTEMS.
- ALL MANHOLES SHALL BE GAS AND WATER TIGHT.
- THE MAXIMUM BURIAL DEPTH IS 7" OF EARTH COVER OVER THE TOP OF THE TANK PER MANUFACTURER. FOR DEEPER BURIAL DEPTHS CONTACT MANUFACTURER.
- REFER TO TANK NOTES PER DETAIL 2 THIS SHEET.
- TANK SHALL BE PERMANENTLY MARKED WITH THE FOLLOWING, "RAIN WATER HARVESTING SYSTEM, CAUTION-UNSAFE WATER."
- FLOAT AND CONTROL PANEL WIRING SUBMITTALS SHALL BE PROVIDED BY THE CONTRACTOR TO THE SYSTEM DESIGNER PRIOR TO COMMENCEMENT OF ELECTRICAL WORK.

**1 RW1-1: RAIN WATER TANK 1 DETAIL**

Scale: N.T.S.

**PROPRIETARY MANUFACTURER NOTES:**  
1. ALL PROPRIETARY SPECIFICATIONS ARE "OR EQUAL" SUBJECT TO WRITTEN APPROVAL OF SUBMITTAL BY ENGINEER.



STA-RITE INDUSTRIES  
293 WRIGHT STREET  
DELAWARE, WI 53115  
TEL: 262.728.9181  
WWW.STARITE.COM

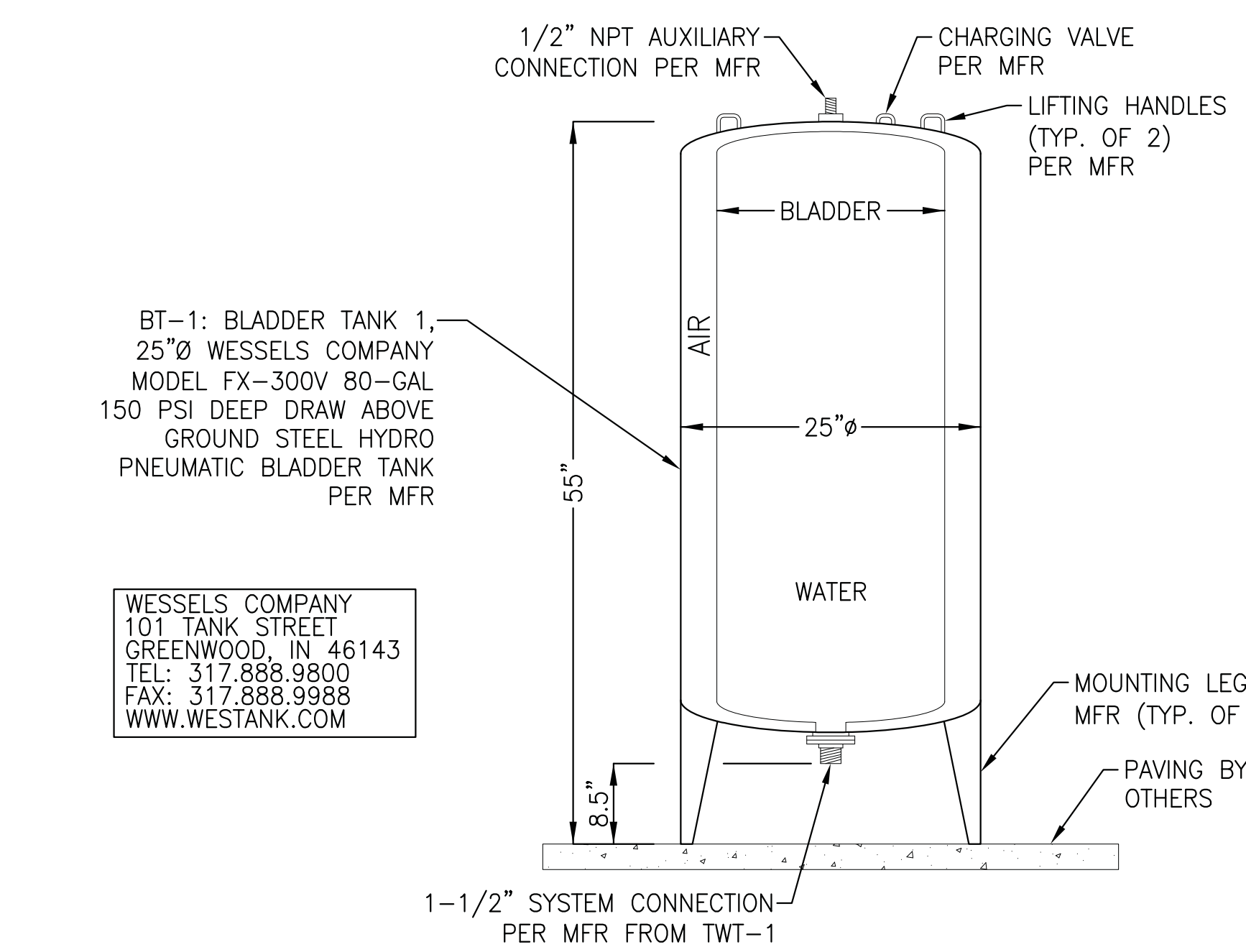
CHEM-TAINER INDUSTRIES, INC.  
361 NEPTUNE AVENUE  
WEST BABYLON, NY 11704  
TEL: 631.661.8300  
FAX: 631.661.8209  
WWW.CHEMTAINER.COM

**GENERAL NOTES:**

- CONTRACTOR SHALL FOLLOW TANK MANUFACTURER'S INSTALLATION INSTRUCTIONS. FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT CHEM-TAINER INDUSTRIES, INC. OR WATER RECYCLING SYSTEMS.
- THE ABOVE GROUND TANK SHALL BE ANCHORED TO THE GROUND OR PAVING PER TANK MANUFACTURER'S RECOMMENDATIONS.
- REFER TO TANK NOTES PER DETAIL 2 THIS SHEET.
- TANK SHALL BE PERMANENTLY MARKED WITH THE FOLLOWING, "RAIN WATER HARVESTING SYSTEM, CAUTION-UNSAFE WATER."
- ALL PUMPS, FLOATS AND CONTROL PANEL WIRING SUBMITTALS SHALL BE PROVIDED BY THE CONTRACTOR TO THE SYSTEM DESIGNER PRIOR TO COMMENCEMENT OF ELECTRICAL WORK.

**3 TWT-1: TREATED WATER TANK 1 DETAIL**

Scale: N.T.S.



BT-1: BLADDER TANK 1,  
25" WESSELS COMPANY  
MODEL FX-300V 80-GAL  
150 PSI DEEP DRAW ABOVE  
GROUND STEEL HYDRO  
PNEUMATIC BLADDER TANK  
PER MFR

WESSELS COMPANY  
101 TANK STREET  
GREENWOOD, IN 46143  
TEL: 317.888.9800  
FAX: 317.888.9988  
WWW.WESTTANK.COM

**GENERAL NOTES:**

- CONTRACTOR SHALL FOLLOW TANK MANUFACTURER'S INSTALLATION INSTRUCTIONS. FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT WESSELS COMPANY OR WATER RECYCLING SYSTEMS.
- THE ABOVE GROUND TANK SHALL BE ANCHORED TO THE GROUND OR PAVING PER TANK MANUFACTURER'S RECOMMENDATIONS.
- REFER TO TANK NOTES PER DETAIL 2 THIS SHEET.

**4 BT-1: BLADDER TANK 1 DETAIL**

Scale: N.T.S.

- TANKS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND CERTIFIED BY MANUFACTURER AND/OR CONTRACTOR.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FROM TANK MANUFACTURER DETAILING TANK PENETRATIONS, BRACKETS, & OTHER APPURTENANCES PRIOR TO TANK CONSTRUCTION.
- IF THE SOIL HAS LESS THAN 750 LBS./SQ.FT. COHESION AS CALCULATED FROM AN UNCONFINED COMPRESSION TEST; OR IN SOILS HAVING AN ULTIMATE BEARING CAPACITY OF LESS THAN 3,500 LBS./SQ. FT.; OR WHERE SOIL WILL NOT MAINTAIN A VERTICAL WALL, THE EXCAVATION MUST ALLOW A MINIMUM SPACE EQUAL TO HALF THE DIAMETER OF THE TANK BETWEEN THE SIDE AND THE ENDCAP OF THE TANK, AND THE EXCAVATION WALL TO ENHANCE LATERAL RESISTANCE.
- A REINFORCED CONCRETE SLAB MAY BE REQUIRED UNDER THE TANK AS A FOUNDATION IN THE EXCAVATION WHERE THE BOTTOM IS UNSTABLE. ASPHALT AND CONCRETE SLABS MUST EXTEND A MINIMUM OF 12" BEYOND THE TANK IN ALL DIRECTIONS.
- TANKS SHALL BE ANCHORED PER MANUFACTURER'S RECOMMENDATIONS IN INSTALLATIONS IN WHICH THE TANK COULD BE EXPOSED TO WATER. SITES SHALL BE THOROUGHLY EVALUATED FOR THE POTENTIAL OF A RISE IN THE LOCAL WATER TABLE OR OF TRAPPED WATER. CONTRACTOR OR SOILS ENGINEER SHALL PROVIDE EVALUATION TO SYSTEM DESIGNER FOR REVIEW PRIOR TO INSTALLATION OF TANK.
- THE MAXIMUM DESIGNED TANK BURY DEPTH IS 7" OF COVER OVER THE TOP OF THE TANK PER MANUFACTURER. ANY TANK BURIED BEYOND RANGE NEEDS TO BE ANALYZED BY A CIVIL/ GEOTECHNICAL ENGINEER PER MANUFACTURER.
- ACCESS RISERS TO BE SET/GLUED IN FIELD BY CONTRACTOR AND WATER TESTED AFTER INSTALLATION IN ACCORDANCE WITH CONSTRUCTION SPECIFICATIONS AND IN THE PRESENCE OF ENGINEER, OWNER, OR OWNER'S AGENT. LIDS SHALL BE LOCKING AND MARKED "RAIN WATER HARVESTING SYSTEM, CAUTION-UNSAFE WATER".
- IF THERE IS AN UNATTACHED RISER OVER AN ACCESS OPENING, IT MUST NOT TRANSMIT LOAD FROM THE ASPHALT OR CONCRETE SLAB TO THE TANK. A MINIMUM SPACE OF 6" MUST EXIST BETWEEN THE BOTTOM OF THE RISER AND THE TOP OF THE TANK.
- IF THERE IS AN ATTACHED RISER ON AN ACCESS OPENING, IT MUST NOT TRANSMIT LOAD FROM THE ASPHALT OR CONCRETE SLAB TO THE TANK. A MINIMUM SPACE OF 3" MUST EXIST BETWEEN THE RISER OR SUMP AND THE SLAB.
- TANKS SUBJECT TO TRAFFIC LOADS (H-20 LOADS) MUST HAVE A COVER DEPTH OF AT LEAST 18" OF BACKFILL (36" FOR 12' TANKS) PLUS 6" OF REINFORCED CONCRETE OR 9" OF ASPHALT. TANKS NOT SUBJECT TO TRAFFIC LOADS MUST HAVE A COVER DEPTH OF AT LEAST 24" OF BACKFILL (48" FOR 12' TANKS) OR 12" OF BACKFILL (36" FOR 12' TANKS) PLUS 4" OF REINFORCED CONCRETE OR 6" OF ASPHALT.
- ALL PENETRATIONS THROUGH TANK AND ACCESS RISERS SHALL BE GAS AND WATERTIGHT. INSTALLER SHALL USE EPOXY, GROMMETS, OR OTHER APPROVED METHODS.
- EACH CONDUIT RUN TO CONTROL PANEL SHALL BE INSTALLED WITH TWO (2) CONDUIT SEALS (O-Z/GEDNEY CAT NO EYA-125), ONE (1) EACH AT CONTROL PANEL AND SPLICE BOX.
- ACCESS RISERS AND COVERS SHALL BE GAS-TIGHT, AND WATER TESTED AFTER INSTALLATION IN ACCORDANCE WITH CONSTRUCTION SPECIFICATIONS AND IN THE PRESENCE OF DESIGNER, OWNER, OR OWNER'S AGENT.
- A 24-HOUR WATERTIGHT TEST SHALL BE CONDUCTED ON ALL GRAYWATER SYSTEM COMPONENTS PER CONSTRUCTION SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR WATER TESTING THE TANKS ONCE THE TANKS INSTALLATION HAS BEEN COMPLETED AND ALLOWED TO SET OVERNIGHT. WATER TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM C1227.9.2. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CLEAN WATER FOR THE TESTING, FILLING THE TANKS, AND PUMPING THE TANKS DRY ONCE TESTING IS COMPLETE.
- TANKS SHALL BE INSTALLED WITH A MINIMUM OF 12" OF COMPACTED CRUSHED STONE BEDDING. SELECT FILL SHALL BE USED IF BACKFILLING AROUND TANKS. NATIVE MATERIAL MAY BE USED IF APPROVED BY THE DESIGN ENGINEER.
- CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL EXTERIOR PIPING PER INSTALLATION DRAWINGS.
- ALL ELECTRICAL WORK IS THE RESPONSIBILITY OF THE CONTRACTOR'S LICENSED ELECTRICIAN AND IS NOT PROVIDED BY SYSTEM ENGINEER. SYSTEM CONTROLLER, IF APPLICABLE, SHOULD BE INSTALLED IN A HEATED BUILDING WHERE AN AMBIENT TEMPERATURE RANGE OF 60 TO 90° F IS MAINTAINED. IF THE CONTROL PANEL MUST BE LOCATED OUTSIDE AND FREEZING TEMPERATURES ARE ANTICIPATED, NOTIFY MANUFACTURER SO A HEATER MAY BE INSTALLED WITHIN THE ENCLOSURE.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLING A DEDICATED ANALOG PHONE LINE, IF APPLICABLE, TO THE CONTROL PANEL FOR THE AUTODIALER/MODEM. PHONE LINE MUST BE INSTALLED AND WORKING IN ORDER TO HAVE ANY WORK PERFORMED UNDER WARRANTY. ANY WORK PERFORMED ON THE SYSTEM WITHOUT THE INSTALLATION OF THE PHONE LINE SHALL BE AT THE SOLE EXPENSE OF THE OWNER.

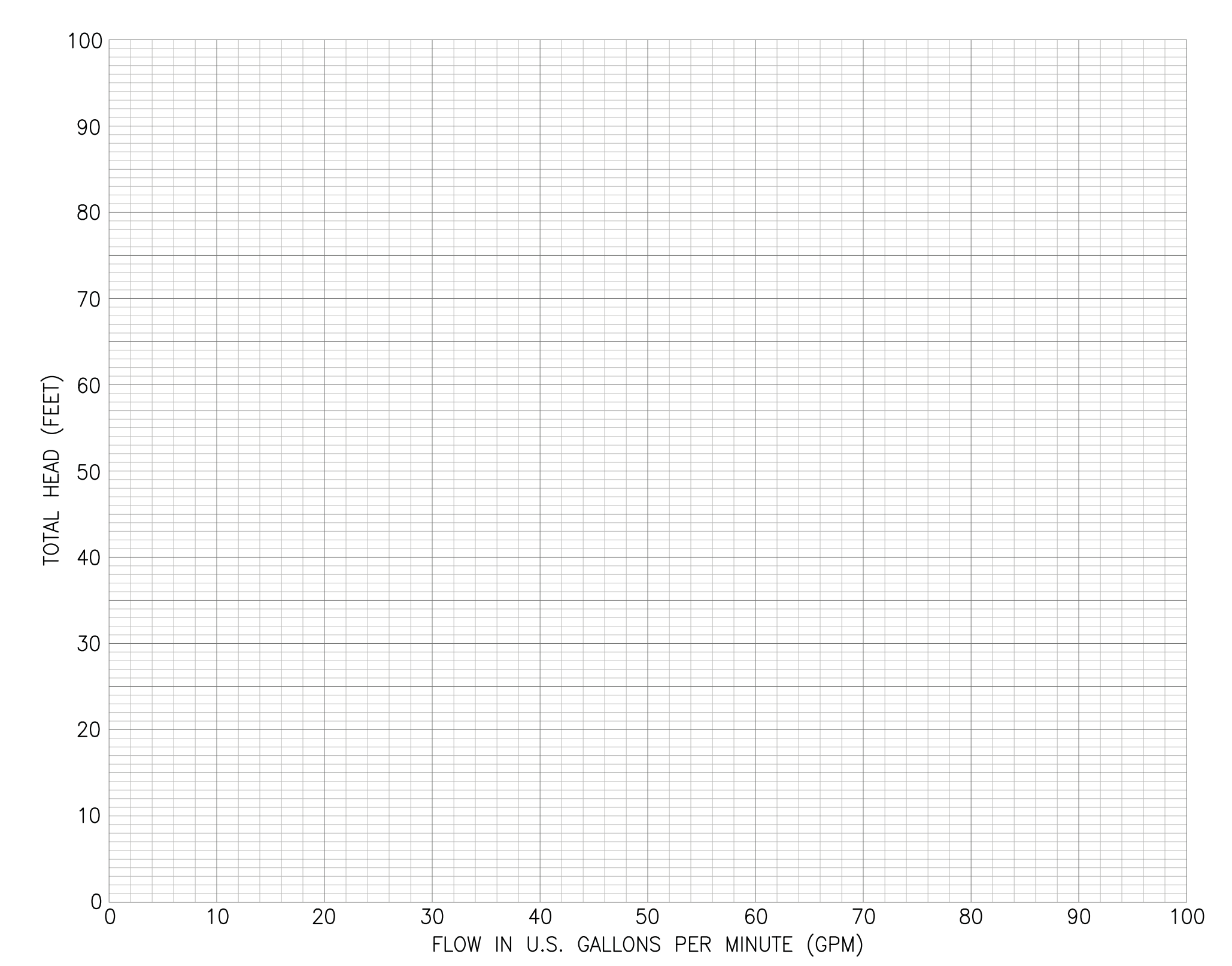
**2 TANK NOTES**

Scale: N.T.S.

RWT-1 FILTRATION PUMP (P-1) SYSTEM PUMP CALCULATIONS:	TWT-1 RECIRCULATION PUMP (P-2) SYSTEM PUMP CALCULATIONS:	TWT-1 SUPPLY PUMP (P-3) SYSTEM PUMP CALCULATIONS:
MAKE: STA-RITE DOMINATOR MODEL NO: 20DOM05221 RATING: 28.0 GPM 62.0 TDH MOTOR: 1/2 HP 1 PH ELEC: 60 HZ 230V ELEC: 4.6 FL AMPS	MAKE: STA-RITE DOMINATOR MODEL NO: 20DOM05221 RATING: 28.0 GPM 37.0 TDH MOTOR: 1/2 HP 1 PH ELEC: 60 HZ 230V ELEC: 4.6 FL AMPS	MAKE: STA-RITE DOMINATOR MODEL NO: 20DOM05221 RATING: 12.5 GPM 110.0 TDH MOTOR: 1/2 HP 1 PH ELEC: 60 HZ 230V ELEC: 4.6 FL AMPS
RWT-1 FILTRATION PUMP (P-1) SYSTEM PUMP SPECIFICATIONS:	TWT-1 RECIRCULATION PUMP (P-2) SYSTEM PUMP SPECIFICATIONS:	TWT-1 SUPPLY PUMP (P-3) SYSTEM PUMP SPECIFICATIONS:

**5 RAIN WATER HARVESTING SYSTEM PUMP CALCULATIONS & SPECIFICATIONS**

Scale: N.T.S.



**6 RAIN WATER HARVESTING SYSTEM PUMP CURVES**

Scale: N.T.S.



**EPD consultants**  
sustainable water systems & solutions  
411 N. HARBOR BLVD., STE. 304  
SAN PEBRO, CA 90371  
Phone (310) 241-6565  
Fax (310) 241-6566

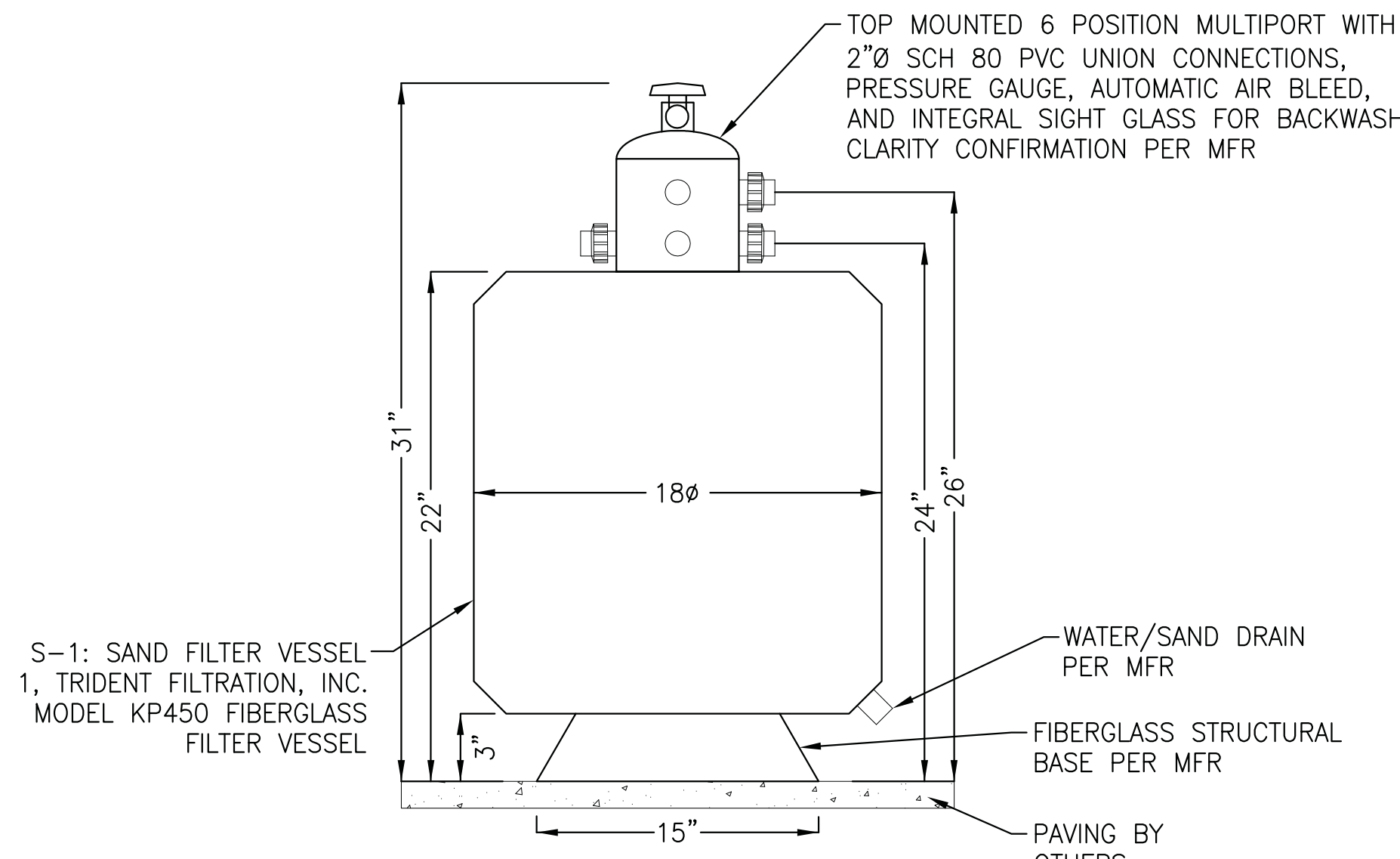
CONSULTANT  
City of Santa Monica  
Architecture Services  
1437 4TH STREET, SUITE 300  
SANTA MONICA, CA 90401  
TEL: (310) 458-2205  
FAX: (310) 389-1541  
architecture@simgov.net

SUBMITTED BY:	DATE: _____ 20__
APPROVED BY:	DATE: _____ 20__
APPROVED BY:	DATE: _____ 20__
APPROVED BY:	DATE: _____ 20__
APPROVED BY:	DATE: _____ 20__

CITY CLIENT	
NO.	DATE
07-24-12	BULLETIN 2
REVISIONS	

ISSUE  
**RAINWATER HARVESTING**  
DATE: 07-24-12  
DRAWING NO: **6693**

SHEET TITLE  
**RAIN WATER HARVESTING SYSTEM DETAILS**  
SHEET NO.



S-1: SAND FILTER VESSEL 1, TRIDENT FILTRATION, INC. MODEL KP450 FIBERGLASS FILTER VESSEL

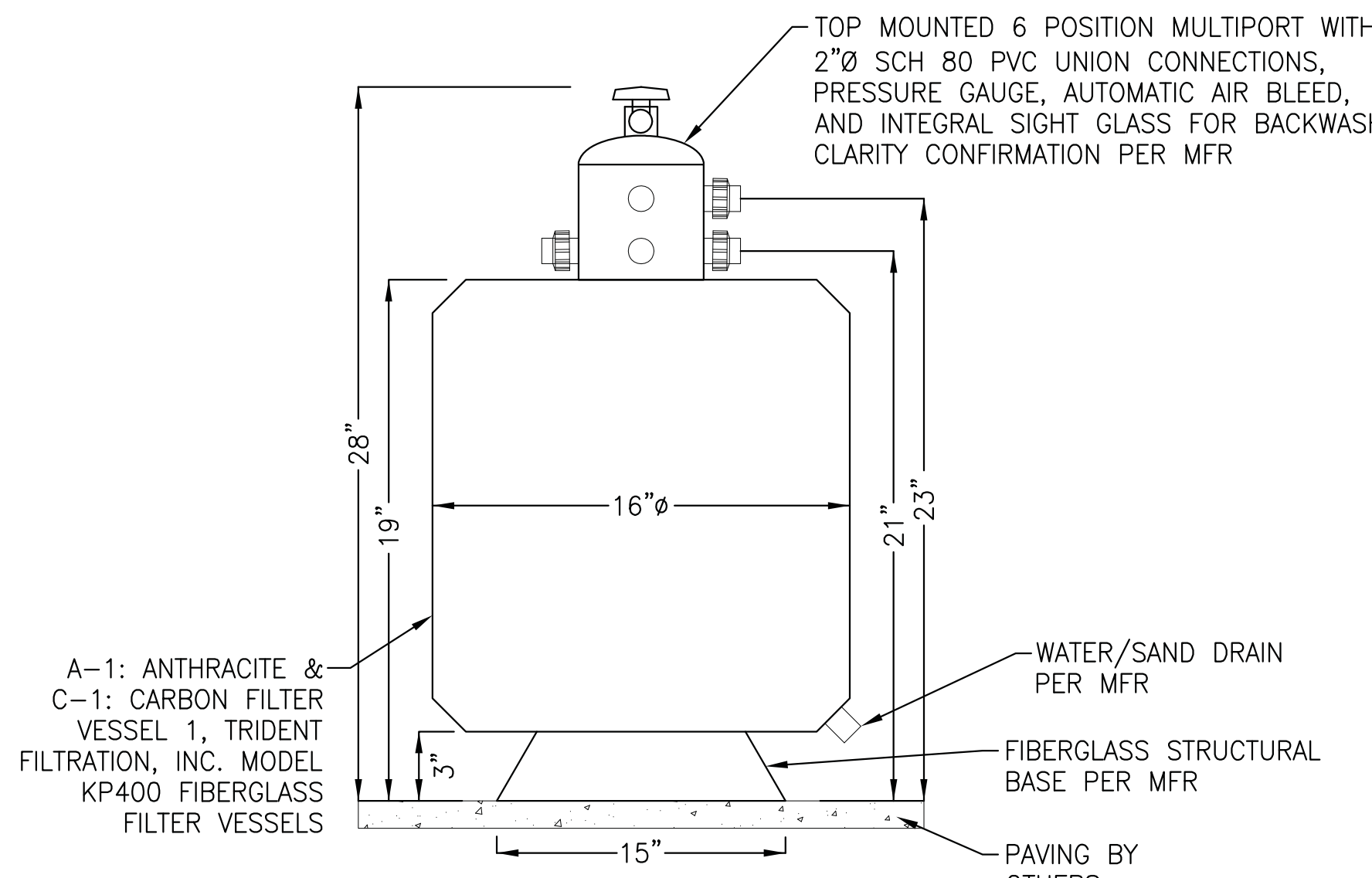
WATER/SAND DRAIN PER MFR  
FIBERGLASS STRUCTURAL BASE PER MFR  
PAVING BY OTHERS

TRIDENT FILTRATION, INC.  
4270 PROMENDAE WAY SUITE D  
MARINA DEL RAY, CA 90290  
TEL: 310.577.7080  
WWW.TRIDENTFILTRATION.COM

WATER RECYCLING SYSTEMS  
1715 VIA EL PRADO #414  
REDONDO BEACH, CA 90277  
TEL: 310.463.2634  
WWW.REUSEGRAYWATER.COM

- NOTES:**
- CONTRACTOR SHALL FOLLOW FILTER VESSEL MANUFACTURER'S INSTALLATION INSTRUCTIONS. FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT TRIDENT FILTRATION, INC. OR WATER RECYCLING SYSTEMS.
  - THE FILTER VESSEL SHOULD BE PLACED ON A LEVEL CONCRETE SLAB, VERY FIRM GROUND, OR EQUIVALENT. POSITION THE FILTER SO THAT THE PIPING CONNECTIONS, CONTROL VALVE, ARE CONVENIENT AND ACCESSIBLE FOR OPERATION AND SERVICE.
  - LOADING THE FILTER VESSEL WITH MEDIA SHALL BE PERFORMED IN ACCORDANCE WITH THE MFR SPECIFICATIONS.
  - ALL CONNECTIONS TO FILTER VESSEL SHALL BE WATERTIGHT PER MFR.
  - THE FILTER VESSEL OPERATES UNDER HIGH PRESSURE, PRIOR TO SERVICING FILTER VESSEL, TURN PUMP OFF TO PREVENT DAMAGE TO THE SYSTEM.

**1 S-1: SAND FILTER VESSEL 1 DETAIL** N.T.S.



A-1: ANTHRACITE & C-1: CARBON FILTER VESSEL 1, TRIDENT FILTRATION, INC. MODEL KP400 FIBERGLASS FILTER VESSELS

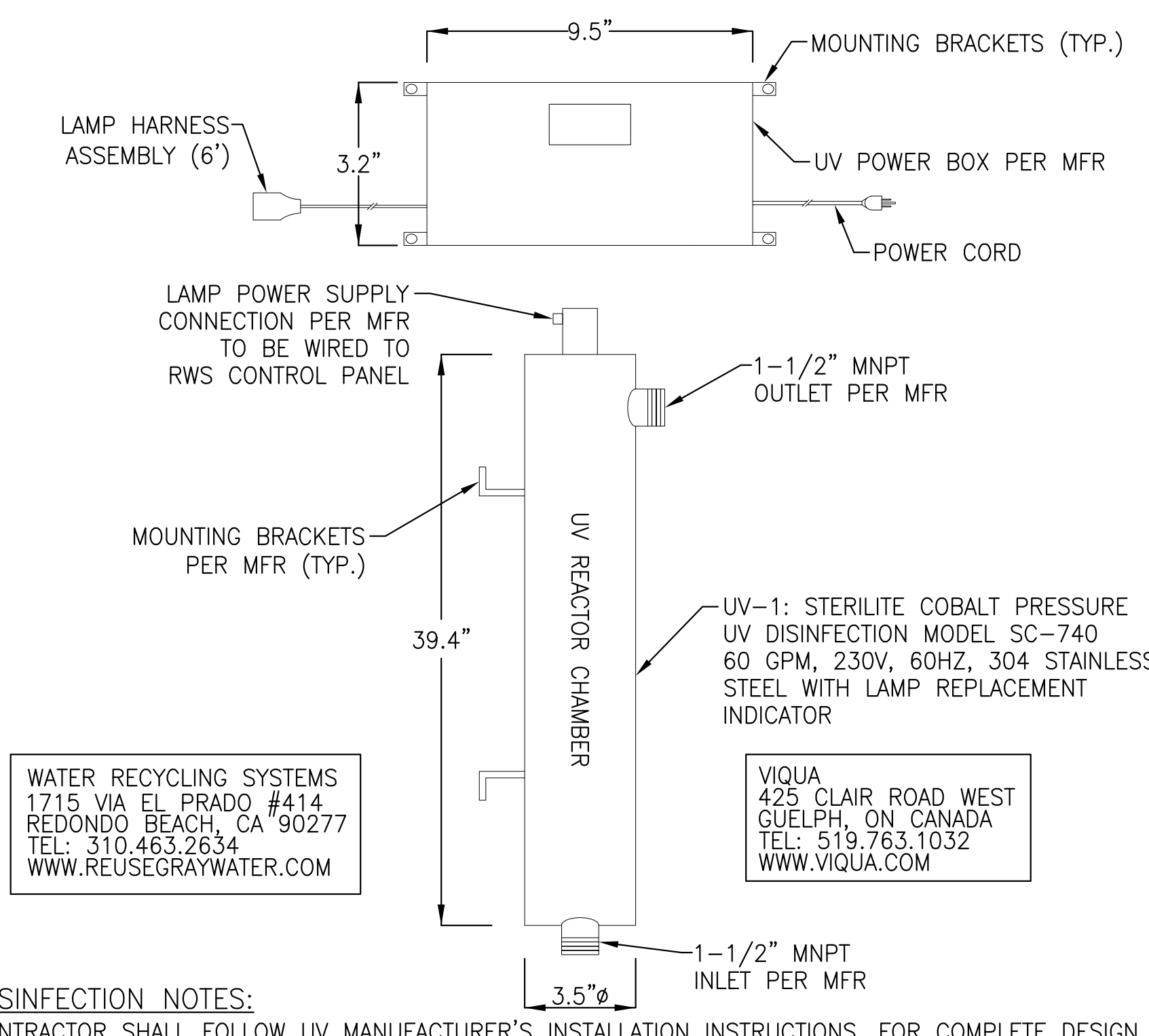
WATER/SAND DRAIN PER MFR  
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WATER RECYCLING SYSTEMS  
1715 VIA EL PRADO #414  
REDONDO BEACH, CA 90277  
TEL: 310.463.2634  
WWW.REUSEGRAYWATER.COM

- NOTES:**
- CONTRACTOR SHALL FOLLOW FILTER VESSEL MANUFACTURER'S INSTALLATION INSTRUCTIONS. FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT TRIDENT FILTRATION, INC. OR WATER RECYCLING SYSTEMS.
  - THE FILTER VESSEL SHOULD BE PLACED ON A LEVEL CONCRETE SLAB, VERY FIRM GROUND, OR EQUIVALENT. POSITION THE FILTER SO THAT THE PIPING CONNECTIONS, CONTROL VALVE, ARE CONVENIENT AND ACCESSIBLE FOR OPERATION AND SERVICE.
  - LOADING THE FILTER VESSEL WITH MEDIA SHALL BE PERFORMED IN ACCORDANCE WITH THE MFR SPECIFICATIONS.
  - ALL CONNECTIONS TO FILTER VESSEL SHALL BE WATERTIGHT PER MFR.
  - THE FILTER VESSEL OPERATES UNDER HIGH PRESSURE, PRIOR TO SERVICING FILTER VESSEL, TURN PUMP OFF TO PREVENT DAMAGE TO THE SYSTEM.

**2 A-1 AND C-1: ANTHRACITE AND CARBON FILTER VESSEL 1 DETAIL** N.T.S.

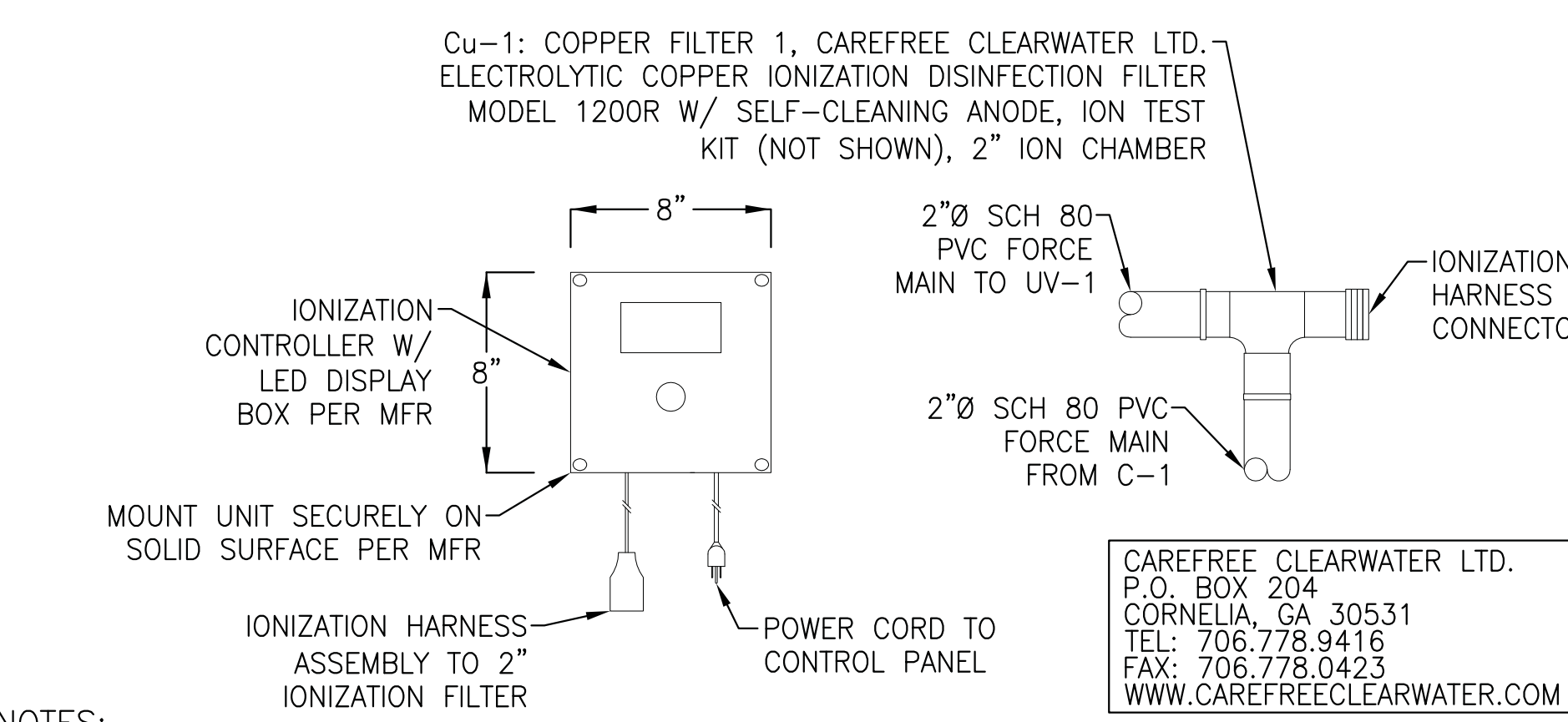


WATER RECYCLING SYSTEMS  
1715 VIA EL PRADO #414  
REDONDO BEACH, CA 90277  
TEL: 310.463.2634  
WWW.REUSEGRAYWATER.COM

VIQUA  
425 CLAIR ROAD WEST  
GUELPH, ON CANADA  
TEL: 519.763.1032  
WWW.VIQUA.COM

- UV DISINFECTION NOTES:**
- CONTRACTOR SHALL FOLLOW UV MANUFACTURER'S INSTALLATION INSTRUCTIONS. FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT VIQUA OR WATER RECYCLING SYSTEMS.
  - UV DISINFECTION UNIT NEEDS TO BE MAINTAINED. CHANGE YOUR LAMP ON A YEARLY BASIS OR PER MANUFACTURER'S RECOMMENDATIONS TO INSURE THAT THE QUARTZ SLEEVE IS CLEAN ON A REGULAR BASIS.
  - THE ELECTRONICS HAVE BEEN DESIGNED TO WORK WITH STANDARD POWER SUPPLIES. SINCE THE UNIT IS SUSCEPTIBLE TO POWER FLUCTUATIONS, WE RECOMMEND THAT THE SYSTEM BE KEPT OFF ANY LINES WHERE THERE ARE SURGES. THIS INCLUDES PUMPS OR MOTORS. IF THERE ARE FLUCTUATIONS, PLEASE USE A SURGE SUPPRESSOR. SEE MANUFACTURER'S RECOMMENDATIONS.
  - WHEN INSTALLING, REMEMBER THAT YOU WILL NEED TO BE ABLE TO REMOVE LAMPS AND QUARTZ AS PART OF MAINTENANCE SCHEDULE. ALLOW YOURSELF ENOUGH ROOM TO ACCOMPLISH THESE TASKS. UNIT IS DESIGNED TO BE MOUNTED VERTICALLY AND SECURED TO WALL OR SOLID SURFACE. CONTRACTOR SHALL VERIFY UV UNIT HAS ENOUGH CLEARANCE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

**3 UV-1: UV DISINFECTION 1 DETAIL** SCALE: N.T.S.



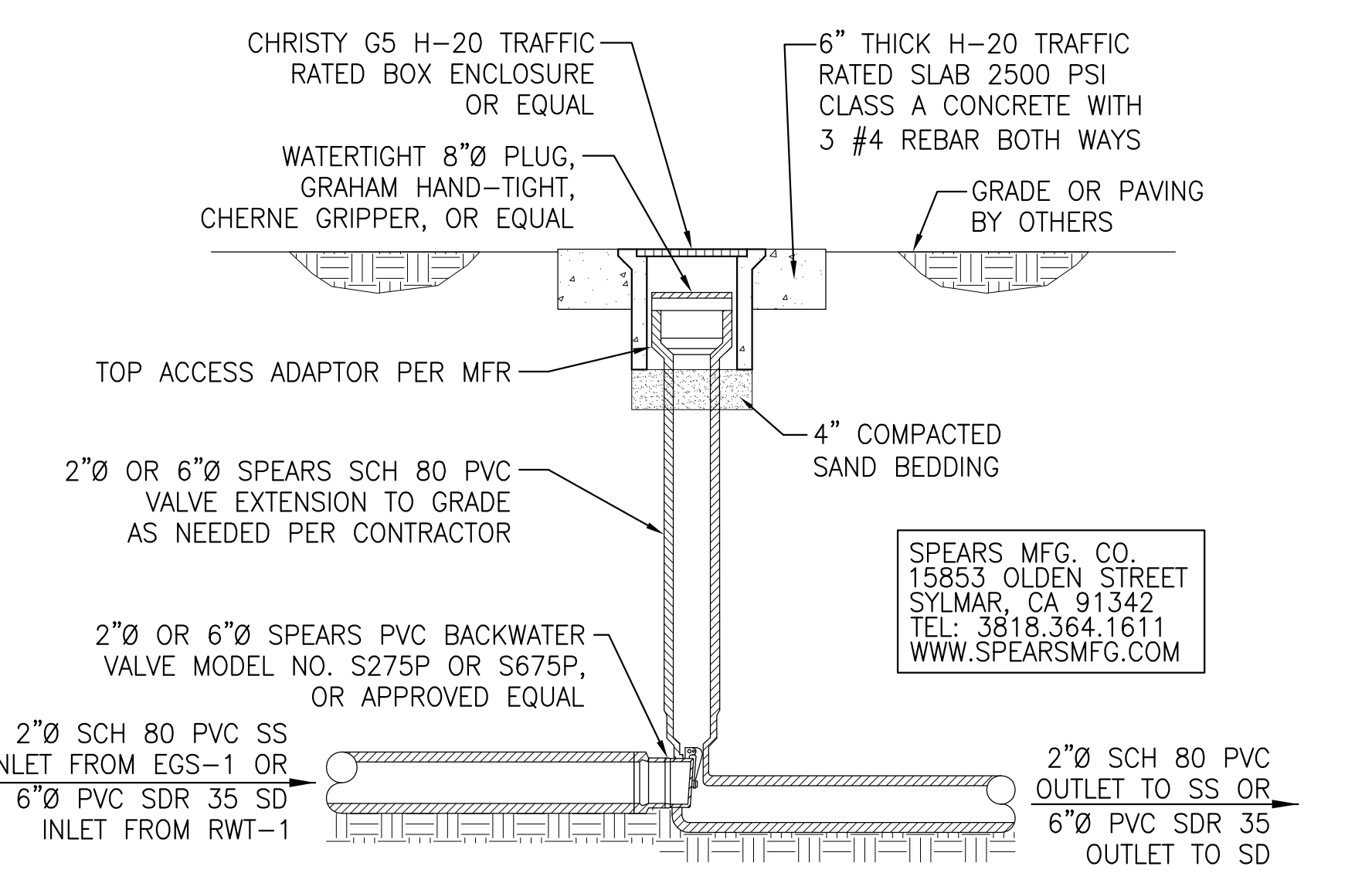
Cu-1: COPPER FILTER 1, CAREFREE CLEARWATER LTD. ELECTROLYTIC COPPER IONIZATION DISINFECTION FILTER MODEL 1200R W/ SELF-CLEANING ANODE, ION TEST KIT (NOT SHOWN), 2" ION CHAMBER

IONIZATION HARNESS CONNECTOR  
IONIZATION HARNESS ASSEMBLY TO 2" IONIZATION FILTER  
POWER CORD TO CONTROL PANEL

CAREFREE CLEARWATER LTD.  
P.O. BOX 204  
CORNELIA, GA 30531  
TEL: 706.778.9416  
FAX: 706.778.0423  
WWW.CAREFREECLEARWATER.COM

- NOTES:**
- CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT CAREFREE CLEARWATER LTD. OR WATER RECYCLING SYSTEMS.
  - IONIZER UNIT IS PROVIDED NEMA 4X AND UL 508-4X RATED WATERPROOF ENCLOSURE, GASKET SEALED CLEAR ACRYLIC VIEW COVER, TAMPER PROOF.
  - IONIZER UNIT REQUIRES PERIODIC OXIDIZING AND MAINTAINING NORMAL WATER BALANCE PER MANUFACTURER RECOMMENDATIONS.
  - Cu-1 UNIT IS PROVIDED AS PART OF THE PACKAGE FOR THE WATER RECYCLING RAIN WATER HARVESTING SYSTEM.

**4 Cu-1: COPPER FILTER 1 DETAIL** SCALE: N.T.S.

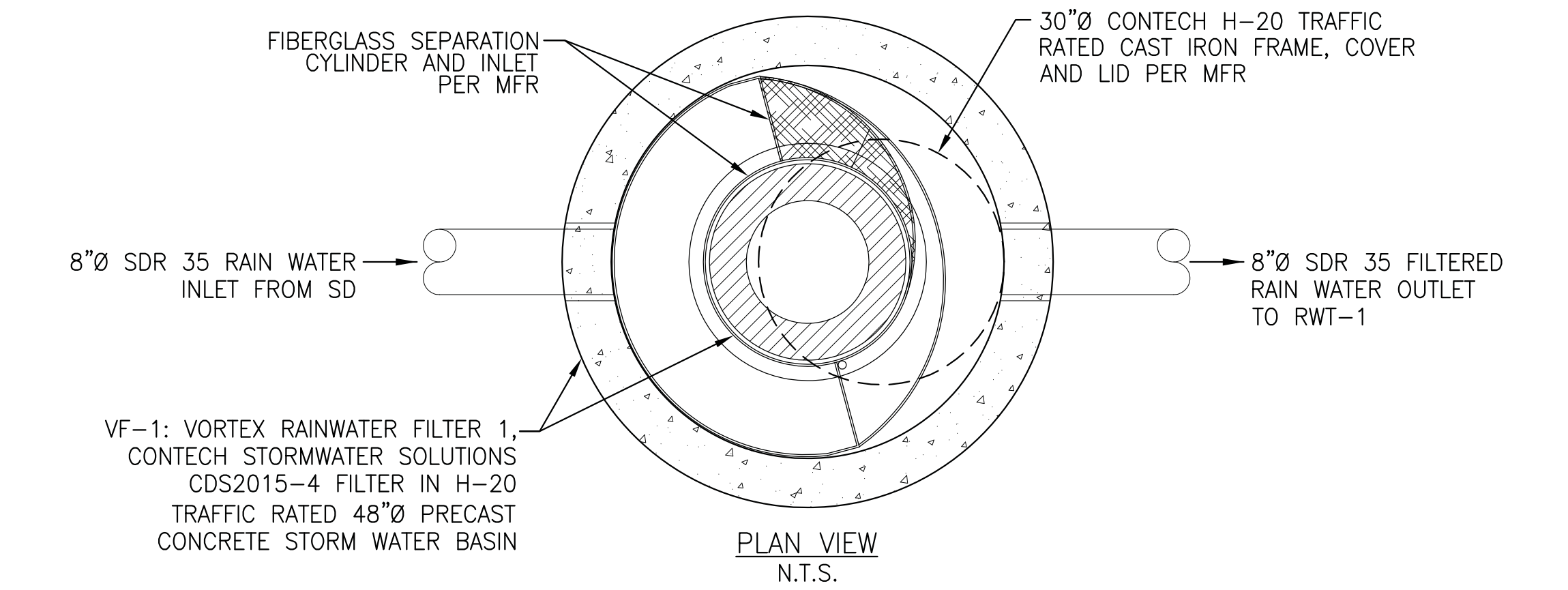


CHRISTY G5 H-20 TRAFFIC RATED BOX ENCLOSURE OR EQUAL  
WATERTIGHT 8" PLUG, GRAHAM HAND-TIGHT, CHERNE GRIPPER, OR EQUAL  
TOP ACCESS ADAPTOR PER MFR

SPEARS MFG. CO.  
15853 OLDEN STREET  
SYLMAR, CA 91342  
TEL: 3818.364.1611  
WWW.SPEARSMFG.COM

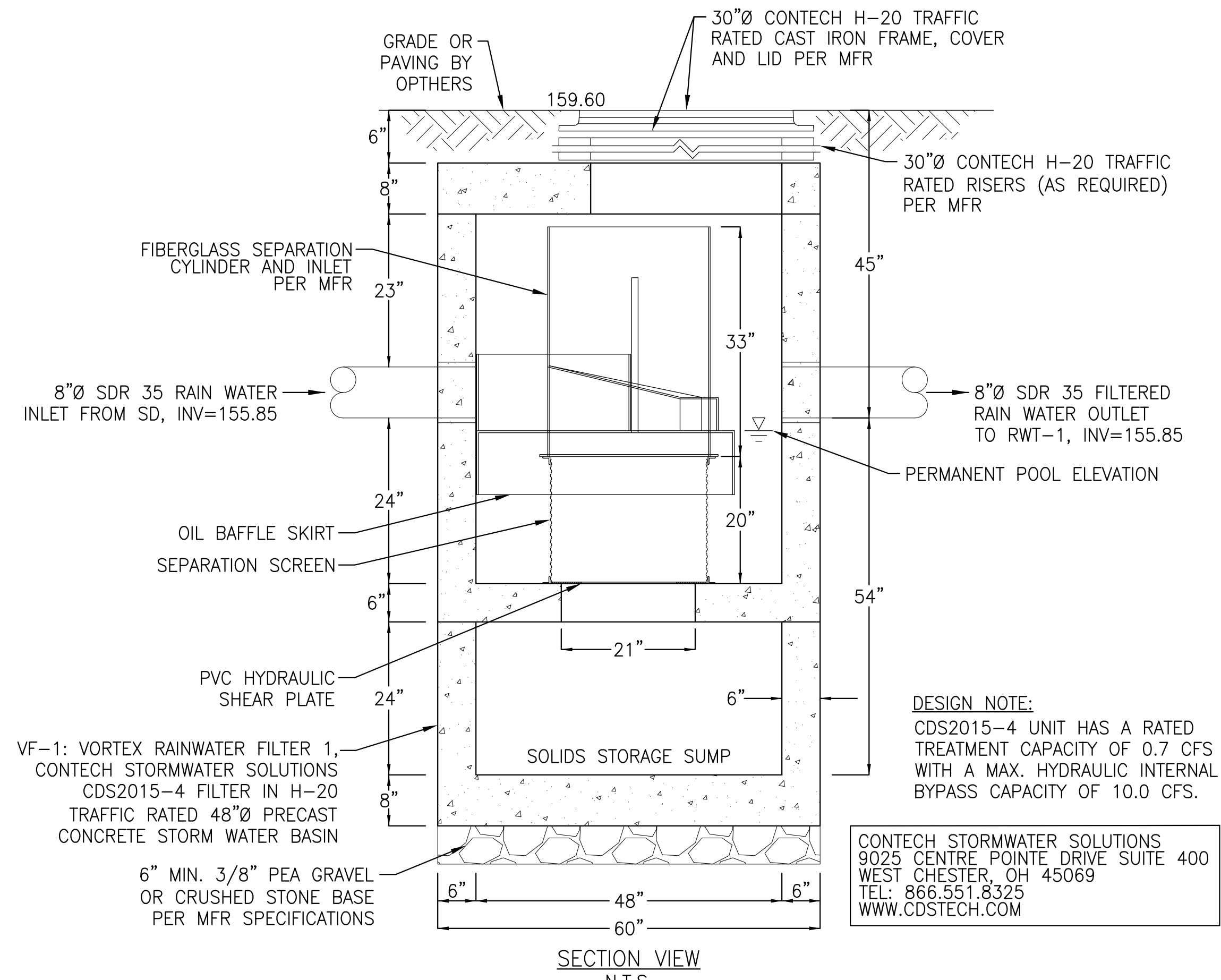
- NOTES:**
- CONTRACTOR SHALL FOLLOW BACKWATER MANUFACTURER'S INSTALLATION INSTRUCTIONS. FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT SPEARS MFG. CO.
  - BACKWATER VALVES OFFER PROTECTION AGAINST BACKWATER SURGES. BACKFLOW IS PREVENTED WHEN VALVE IS NOT OBSTRUCTED BY DEBRIS OR SLUDGE. USE FOR GRAVITY FLOW ONLY, NOT FOR PRESSURIZED APPLICATIONS.
  - IF BACKWATER VALVES ARE LOCATED IN NON TRAFFIC AREA, CONTRACTOR MAY SUBSTITUTE ALTERNATIVE NON-TRAFFIC RATED INSTALLATION WITH ENGINEER APPROVED EQUAL.

**5 BWV: BACKWATER VALVE DETAIL** SCALE: N.T.S.



FIBERGLASS SEPARATION CYLINDER AND INLET PER MFR  
30"Ø CONTECH H-20 TRAFFIC RATED CAST IRON FRAME, COVER AND LID PER MFR

VF-1: VORTEX RAINWATER FILTER 1, CONTECH STORMWATER SOLUTIONS CDS2015-4 FILTER IN H-20 TRAFFIC RATED 48"Ø PRECAST CONCRETE STORM WATER BASIN

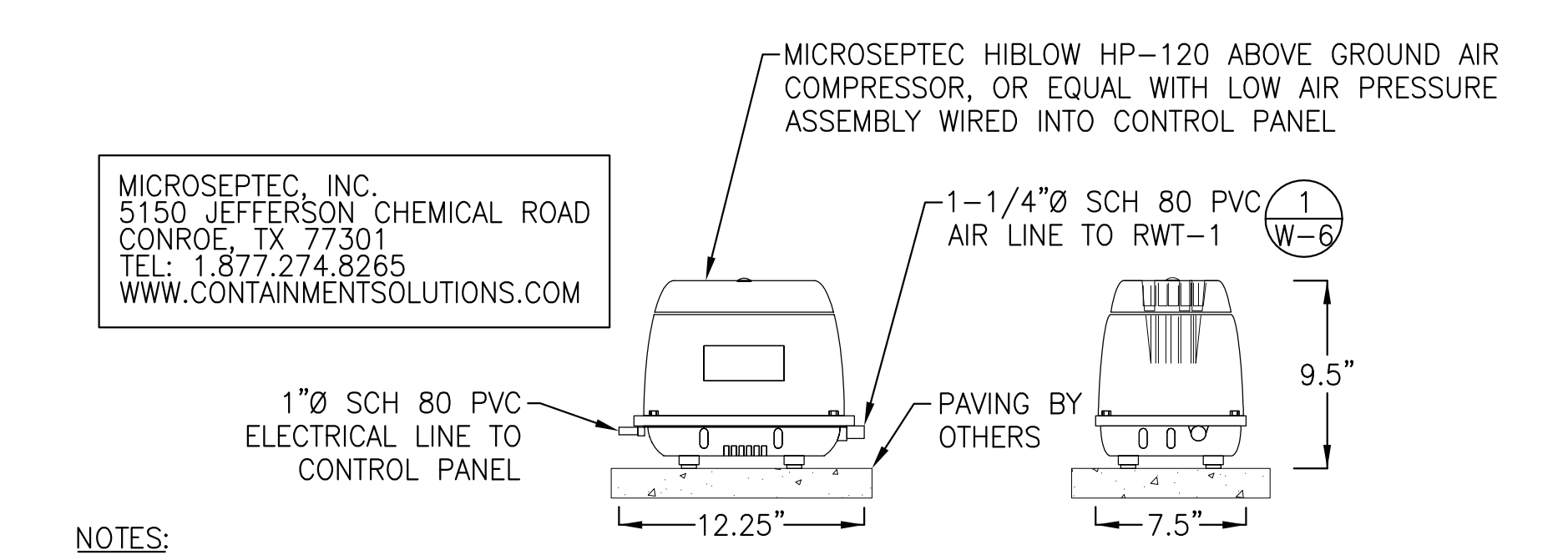


8"Ø SDR 35 RAIN WATER INLET FROM SD, INV=155.85  
8"Ø SDR 35 FILTERED RAIN WATER OUTLET TO RWT-1, INV=155.85

VF-1: VORTEX RAINWATER FILTER 1, CONTECH STORMWATER SOLUTIONS CDS2015-4 FILTER IN H-20 TRAFFIC RATED 48"Ø PRECAST CONCRETE STORM WATER BASIN

- NOTES:**
- CONTRACTOR SHALL FOLLOW VORTEX FILTER MANUFACTURER'S INSTALLATION INSTRUCTIONS. FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT CONTECH STORMWATER SOLUTIONS.
  - VORTEX FILTER IS LOCATED IN TRAFFIC AREA AND SHALL BE INSTALLED WITH PRECAST CONCRETE MANHOLE STRUCTURE AS SHOWN AND SHALL BE ABLE TO WITHSTAND H-20 TRAFFIC LOADING CONDITIONS.
  - PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
  - CONTRACTOR SHALL PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED PER MFR).
  - CONTRACTOR TO PROVIDE, INSTALL, AND GROUT ALL PIPES WITH ELEVATIONS AS SHOWN.
  - CONTRACTOR TO ASSEMBLE STRUCTURE AND ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS.
  - CONTRACTOR SHALL ENSURE THAT COMPLETE UNIT IS INSTALLED AS GAS AND WATERTIGHT.
  - UNIT SHALL BE PERMANENTLY MARKED WITH THE FOLLOWING, "RAIN WATER HARVESTING SYSTEM, CAUTION-UNSAFE WATER."

**6 VF-1: VORTEX RAIN WATER FILTER 1 DETAIL** SCALE: N.T.S.



MICROSEPTEC, INC.  
5150 JEFFERSON CHEMICAL ROAD  
CONROE, TX 77301  
TEL: 1.877.274.8265  
WWW.CONTAINMENTSOLUTIONS.COM

MICROSEPTEC HIBLOW HP-120 ABOVE GROUND AIR COMPRESSOR, OR EQUAL WITH LOW AIR PRESSURE ASSEMBLY WIRED INTO CONTROL PANEL

- NOTES:**
- CONTRACTOR SHALL FOLLOW AIR COMPRESSOR MANUFACTURER'S INSTALLATION INSTRUCTIONS. FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT MICROSEPTEC.
  - CONTRACTOR TO LOCATE IN SHADED AREA AWAY OUT OF DIRECT SUBLIGHT OR PROVIDE SHADE COVER. COMPRESSORS SHOULD BE LOCATED IN A WELL-VENTILATED SHADY PLACE. AN INDOOR LOCATION LIKE A SHED OR GARAGE IS IDEAL.
  - COMPRESSORS MUST BE ELEVATED OFF THE GROUND SO THAT SURFACE WATER CANNOT ENTER THE ELECTRICAL TERMINALS WITHIN THE COMPRESSOR.
  - COMPRESSORS SHOULD BE LOCATED AS CLOSE TO THE TANK AS POSSIBLE. DO NOT EXCEED 50' DISTANCE FROM TANK.
  - 1" SCH 80 PVC PIPE IS REQUIRED FOR PLUMBING THE COMPRESSOR(S) TO THE CISTERN; ONE PIPE PER COMPRESSOR. THE PIPE MUST FALL TOWARD THE TANK WITH NO LOW POINTS. COMPRESSORS MUST BE LOCATED AT THE SAME ELEVATION OR HIGHER THAN TOP OF CISTERN.

**7 MICROSEPTEC AIR COMPRESSOR DETAIL** SCALE: N.T.S.



GENERAL NOTES:

- 1. WORK SHOWN HEREON SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION..." LATEST EDITION AND SUPPLEMENTS, THE CALIFORNIA BUILDING CODE (EXCAVATION AND GRADING), AND CITY OF SANTA MONICA LOCAL ORDINANCES AS APPLICABLE.
2. ALL GRADING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL ENGINEERING SERVICES BY GEO DESIGN, INC. DATED OCTOBER 8, 2010.
3. EXISTING TOPOGRAPHY SHOWN HEREON WAS TAKEN FROM A SURVEY DATED FEBRUARY 8, 2011 BY JMC².
4. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
5. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL JOIN CONDITIONS FOR GRADING, DRAINAGE AND UNDERGROUND FACILITIES INCLUDING LOCATION AND ELEVATION OF EXISTING UNDERGROUND FACILITIES AT CROSSINGS WITH PROPOSED UNDERGROUND FACILITIES. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED.
6. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION. SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
7. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
8. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
9. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
10. IF AT ANY TIME DURING GRADING OPERATIONS, ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED, GRADING IN THAT AREA WILL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.
11. THE PROPOSED GRADE IS THE FINAL GRADE AND NOT THE ROUGH GRADE. THE CONTRACTOR SHALL SUBTRACT THE THICKNESS OF THE PAVED SECTION AND/OR LANDSCAPE TOPSOIL SECTION TO ARRIVE AT THE ROUGH GRADE ELEVATION.
12. STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON THE PLANS.
13. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.
14. ALL FILL SOILS OR SOILS DISTURBED OR OVEREXCAVATED DURING CONSTRUCTION SHALL BE COMPACTED PER THE REQUIREMENTS OF THE SOILS REPORT BUT NOT LESS THAN 90% MAXIMUM DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D-1557.
15. THE CONTRACTOR SHALL OBTAIN AN O.S.H.A. PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE FEET OR DEEPER.
16. DIMENSIONS TO PIPELINES ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
17. ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER FROM TOP OF PIPE TO FINISHED GRADE, UNLESS OTHERWISE NOTED.
18. THRUST BLOCKS SHALL BE INSTALLED AT WATERLINE HORIZONTAL AND VERTICAL BENDS, TEES, CAPPED ENDS AND REDUCERS ACCORDING TO THE DETAILS PROVIDED ON THESE PLANS.
19. CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR.
20. THE CONTRACTOR SHALL REPLACE ALL EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION TO MATCH EXISTING, INCLUDING PERMANENT TRENCH RESURFACING.
21. CONTRACTOR TO CONTACT UNDERGROUND SERVICE ALERT (800-227-2600) PRIOR TO EXCAVATION.
22. ALL DIMENSIONS ARE IN FEET OR DECIMALS THEREOF.
23. ALL CURB DIMENSIONS AND RADII ARE TO PAVEMENT FACE OF CURB.
24. CONTRACTOR TO BE AWARE OF ALL OVERHEAD LINES AT ALL TIMES, SO AS NOT TO DISTURB THEM.
25. WATER SHALL BE PROVIDED ONSITE AND USED TO CONTROL DUST DURING CONSTRUCTION OPERATIONS.
26. CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS FROM THE CITY OF SANTA MONICA FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
27. STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.
28. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, INCLUDING NPDES, FROM THE APPROPRIATE JURISDICTIONAL AGENCIES FOR DISCHARGE OF GROUNDWATER THAT MAY BE NECESSARY TO ACCOMPLISH EXCAVATIONS SHOWN ON THESE PLANS.

1-800-227-2600 CALL USA/SC FOR UNDERGROUND LOCATING 48 HOURS BEFORE YOU DIG! IMPORTANT NOTICE SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-800-227-2600 TWO WORKING DAYS BEFORE YOU DIG

THIS PLAN HAS BEEN REVIEWED AND CONFORMS TO RECOMMENDATIONS OF SOILS ENGINEERING/GEOLOGICAL REPORT BY GEO DESIGN, INC. DATED OCTOBER 8, 2010. THE GEOTECHNICAL ENGINEER HAS REVIEWED AND APPROVED THE URBAN RUN-OFF MITIGATION SYSTEM, INCLUDING CONFIRMING ADEQUATE PERCOLATION. SIGNATURE DATE STAMP

CITY OF SANTA MONICA PUBLIC WORKS GENERAL NOTES:

- 1. NO WORK SHALL BE DONE WITHIN THE PUBLIC RIGHT OF WAY WITHOUT THE PRIOR APPROVAL AND PERMIT FROM PUBLIC WORKS DEPARTMENT - ADMINISTRATIVE SERVICES, ROOM 113.
2. OWNER IS RESPONSIBLE FOR REPAIR OF ALL DAMAGE TO OFFSITE IMPROVEMENTS CAUSED BY CONSTRUCTION. CALL PUBLIC WORKS INSPECTOR FOR INSPECTION OF OFFSITE IMPROVEMENTS AT SUBSTANTIAL COMPLETION OF ONSITE WORK AT (310) 458-8737.
3. NEW PROPOSED IMPROVEMENTS SHALL NOT OBSTRUCT DRAINAGE OR DRAIN INTO NEIGHBORING PRIVATE PROPERTIES.
4. WATER SHALL BE DRAINED AWAY FROM THE FOUNDATION AND SHALL BE MITIGATED FROM PERMEATING INTO FOUNDATION WALL AND FOOTING OF THE NEW PROPOSED IMPROVEMENTS.
5. NO CONSTRUCTION DEBRIS SHALL BE SPILLED OR STORED ONTO PUBLIC RIGHT-OF-WAY.
6. NO RUNOFF OF SEDIMENT OR WASTES IS ALLOWED IN WATER LEAVING THE SITE.
7. ALL SITE UTILITIES SHALL BE CONSTRUCTED UNDERGROUND TO THE NEAREST OFFSITE UTILITY POLE. CONTRACTOR/DEVELOPER HAS MADE ARRANGEMENTS WITH THE UTILITY COMPANIES TO PLACE ALL OVERHEAD UTILITIES UNDERGROUND.
8. THE CITY STRONGLY URGES THE APPLICANT TO INSPECT THE EXISTING SEWER CONNECTION. IF THE CONNECTION IS DAMAGED OR OVER 30 YEARS OLD, THE CITY RECOMMENDS THAT THE APPLICANT SHOW ON THE PLANS THE CONSTRUCTION OF A NEW 6-INCH DIAMETER VCP SANITARY SEWER CONNECTION FROM PROPERTY LINE TO SANITARY SEWER MAIN IN ACCORDANCE WITH CITY OF SANTA MONICA STANDARDS. (SEWER PERMIT REQUIRED).
9. ALL LABOR, EQUIPMENT AND MATERIAL REQUIRED FOR OFF-SITE IMPROVEMENTS ARE THE RESPONSIBILITY OF THE DEVELOPER.
10. ALL OFFSITE WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS/DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION AS AMENDED BY THE CITY OF SANTA MONICA AND CITY OF SANTA MONICA STANDARDS.
11. OWNER/CONTRACTOR SHALL COMPLY WITH THE UTILITY DIVISION CROSS CONNECTION GUIDELINES. PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY, CROSS CONNECTION CONTROL INSPECTION MUST BE COMPLETED. CONTACT THE CITY WATER DIVISION AT (310) 458-8531.
12. PRIOR TO INSTALLATION OF ANY CROSS-CONNECTION DEVICE, PLEASE CONTACT THE CITY'S CROSS-CONNECTION INSPECTOR AT (310) 458-8535.
13. PRIOR TO BACKFILLING OR COVERING UP ANY URBAN RUNOFF MITIGATION RELATED EXCAVATIONS AND/OR STRUCTURES, CONTACT THE CITY URBAN RUNOFF COORDINATOR AT (310) 458-8223 FOR INSPECTION.
14. PRIOR TO COMMENCING ANY UNDERGROUND UTILITY WORK, OBTAIN SEPARATE UTILITY EXCAVATION PERMITS AND STREET USE PERMITS FOR UTILITY EXCAVATION. CONTACT PW ADMINISTRATIVE SERVICES, ROOM 113.
15. THE SITE MUST COMPLY WITH SMMC CHAPTER 7.10.060 URBAN RUNOFF POLLUTION ORDINANCE FOR CONSTRUCTION ACTIVITIES AND TEMPORARY BMPS.

TREE PROTECTION ZONE (TPZ) GUIDELINES:

- 1. TREES WITHIN THE PUBLIC RIGHT-OF-WAY MAY NOT BE REMOVED FOR ANY REASON AND ARE TO BE PROTECTED FROM INJURY OR DAMAGE DURING CONSTRUCTION. THIS TREE IS A SIGNIFICANT TREE IN THE CITY OF SANTA MONICA. PRUNING SHALL ONLY BE DONE BY CITY TREE TRIMMERS TO PROVIDE CLEARANCE FOR CONSTRUCTION ACTIVITIES. ALL QUESTIONS REGARDING STREET TREES ARE TO BE DIRECTED TO THE COMMUNITY FORESTER.
2. THE TYPICAL TPZ SHOULD ENCOMPASS THE CANOPY PLUS AN ADDITIONAL RADIAL WIDTH OF TEN FEET (10'). HOWEVER, SINCE THESE CONDITIONS ARE UNIQUE, THE APPLICATION SHOULD BE EVALUATED WITH THE FINAL LIMITS OF THE TPZ BEING ESTABLISHED BY THE COMMUNITY FORESTER.
3. MULCH THE ENTIRE AREA OF THE TPZ IN AN EFFORT TO IMPROVE THE GROWING ENVIRONMENT FOR THE ROOTS. DURING CONSTRUCTION PHASE MAINTAIN A FOUR TO SIX INCH LAYER OF CHIP MULCH OVER THE SOIL SURFACE TO REDUCE SOIL COMPACTION, IMPROVE AERATION, ENHANCE MOISTURE RETENTION AND REDUCE TEMPERATURE EXTREMES. MULCH GENERALLY CONSISTS OF SHREDED LEAVES OR BARK, PINE STRAW, PEAT MOSS, WOOD CHIPS OR COMPOSTED GREENWASTE.
4. FENCE THE TPZ WITH SUITABLE FENCING MATERIAL TO PREVENT WOUNDS TO THE TREE AND SOIL COMPACTION WITHIN THE ROOT ZONE. POST THE FENCE WITH A SIGN STATING "TREE PROTECTION ZONE - KEEP OUT".
5. SHOULD IT BE NECESSARY TO TRENCH WITHIN THE TPZ ALL TRENCHES SHALL BE HAND DUG. NO ROOTS LARGER THAN TWO INCHES (2") SHALL BE CUT UNLESS NO OTHER ALTERNATIVE IS FEASIBLE. ALL SMALLER ROOTS THAT REQUIRE CUTTING SHALL BE CUT WITH PRUNING SAWS. CUTS SHALL BE MADE FLUSH WITH THE SIDE OF THE TRENCH. IF AT ANY TIME TWENTY-FIVE PERCENT (25%) OF THE AREA WITHIN THE TPZ IS BEING SEPARATED FROM THE TREE BY A TRENCH, THEN THE LINE SHALL BE EITHER RELOCATED OR INSTALLED BY BORING.
6. REMOVAL OF HARDSCAPE MATERIALS FROM WITHIN THE TPZ SHALL BE DONE MANUALLY.
7. THE MINIMUM DISTANCE BETWEEN AN OPEN TRENCH AND ANY TREE SHALL BE BETWEEN SIX INCHES (6") TO ONE FOOT (1') FOR EVERY INCH OF TRUNK DIAMETER MEASURED AT FOUR AND A HALF FEET (4 1/2') ABOVE EXISTING GRADE, DEPENDING ON THE SPECIES OF TREE. MINIMUM CLEARANCE SHALL BE TEN FEET (10') FROM THE TRUNK OF THE TREE.
8. IN THE EVENT ROOT PRUNING IS REQUIRED TO ACCOMMODATE GRADE CHANGES OR THE INSTALLATION OF HARDSCAPE FEATURES THE ROOT PRUNING PROCEDURES DESCRIBED IN THIS OUTLINE SHOULD BE FOLLOWED.
9. AT NO TIME SHALL ANY EQUIPMENT, MATERIALS, SUPPLIES OR FILL SOIL BE ALLOWED IN THE TPZ.
10. PRUNE AND FERTILIZE THE TREES AFTER THE COMPLETION OF ALL EXTERIOR WORK ON THE BUILDING AND AT THE BEGINNING OF THE LANDSCAPE PHASE.
11. CALL THE COMMUNITY FORESTERS OFFICE TO SET A SITE VISIT TO DETERMINE THE EXACT LOCATION OF THE TPZ FENCE BEFORE START OF WORK. (310) 458-8974.
12. ALL QUESTIONS REGARDING THE CITY TREE ADJACENT TO YOUR PROJECT MAY BE DIRECTED TO THE COMMUNITY FORESTER, WALT WARRINER AT (310) 458-8974.

LEGEND:

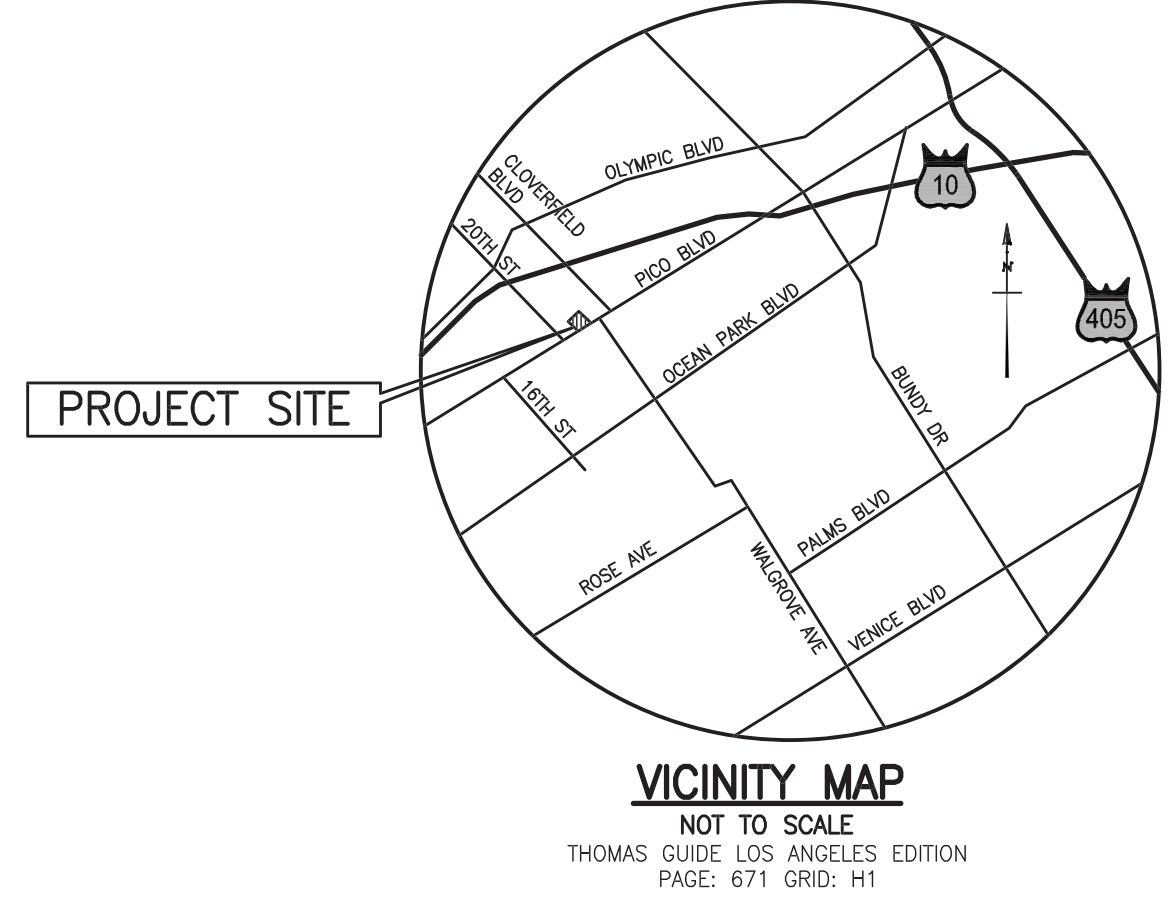
GENERAL: CIVIL LIMITS OF WORK
ANNOTATION: SURFACE ELEVATION/UTILITY ELEVATION, EXISTING SURFACE ELEVATION/UTILITY ELEVATION, CONSTRUCTION NOTE, FLOW (DIRECTION AND GRADE), SLOPE (DIRECTION AND RUN:RISE), HORIZONTAL CONTROL POINT LABEL, CURVE DATA LABEL, PAD/FINISHED FLOOR ELEVATION
SITE: CURB/BACK OF CURB/GUTTER, RETAINING WALL/SITE WALL, FOUNTAIN, PROPERTY LINE/RIGHT OF WAY, CENTER LINE, FENCE, TO BE DEMOLISHED
EROSION CONTROL: SANDBAGS, EXISTING DRAINAGE DIRECTION OF FLOW
GRADING: PROPOSED MAJOR CONTOUR, PROPOSED MINOR CONTOUR, FLOW LINE, GRADE BREAK LINE, RIDGE LINE
UTILITY: STORM DRAIN, PERFORATED PIPE, CAP OR PLUG, UTILITY CLEANOUT, STORM DRAIN INLET, AREA DRAIN/PLANTER DRAIN, TRENCH DRAIN

ABBREVIATIONS:

Table with 2 columns: Abbreviation and Full Name. Includes AC (Asphaltic Concrete), BW (Back of Walk), BLDG (Building), BM (Bench Mark), BOS (Bottom of Stairs), BMP (Best Management Practices), CB (Catch Basin), CI (Cast Iron), CL (Center Line), CMU (Concrete Masonry Unit), CO (Cleanout), CONC (Concrete), CF (Curb Face), DW (Domestic Water), (E) (East), EG (Edge of Gutter), EL OR ELEV (Elevation), ELEC (Electric, Electrical), EX OR EXIST. (Existing), FDC (Fire Department Connection), FF (Finished Floor), FG (Finished Grade (Landscape)), FS (Finished Surface (Hardscape)), FH (Fire Hydrant), FL (Flow Line), FT (Foot or Feet), FU (Fixture Units), FV (Gate Valve), FW (Fire Water), GPM (Gallons per Minute), HDPE (High Density Polyethylene), HP (High Point), INV. (Invert), LP (Low Point), MAX. (Maximum), MIN. (Minimum), MH (Manhole), (N) (North), NTS (Not to Scale), PA (Planter Area), POC (Point of Connection), PV (Post Indicator Valve), PCC (Portland Cement Concrete), PRV (Pressure Reducing Valve), PVC (Polyvinyl Chloride), R (Radius), RCI (Rectangular Cast Iron Pipe), RD (Roof Drain), RW (Right-of-Way), (S) (South), S= (Slope Equals), SD (Storm Drain), SSMH (Sanitary Sewer Manhole), SS (Sanitary Sewer), STD (Standard), SDMH (Storm Drain Manhole), TC (Top of Curb), TEL (Telephone), TG (Top of Grade), TOS (Top of Stairs), TPZ (Tree Protection Zone), TW (Top of Wall), TS (Traffic Signal), TSB (Traffic Signal Box), TYP (Typical), TV (Television), VIF (Verify in Field), VLT (Vault), VCP (Vitrified Clay Pipe), (W) (West), W (Water), WM (Water Meter), WV (Water Valve)

ESTIMATED EARTHWORK QUANTITIES
CUT: 540 CUBIC YARDS
FILL: 395 CUBIC YARDS
NET CUT: 145 CUBIC YARDS
NOTES: 1. THE ESTIMATED QUANTITIES PROVIDED ABOVE ARE TO BE USED FOR JURISDICTIONAL PLAN CHECKING AND PERMITTING PURPOSES ONLY. 2. ESTIMATED EARTHWORK ABOVE IS BASED ON DESIGN FINISH GRADES TO EXISTING GRADES AND/OR CONTOURS AS PROVIDED ON THE BASE SURVEY. THE ESTIMATED EARTHWORK DOES NOT ACCOUNT FOR THE THICKNESS OF PAVEMENTS, FOUNDATIONS AND SLABS ON GRADE, FOOTINGS, CLEARING AND GRUBBING, OVER EXCAVATION AND RECOMPACTION, AND CONSTRUCTION MEANS AND METHODS. 3. THE ESTIMATED EARTHWORK QUANTITIES DO NOT INCLUDE SHRINKAGE AND/OR EXPANSION FACTORS DUE TO COMPACTION OR OVER EXCAVATION QUANTITIES. 4. THE CONTRACTOR SHALL CALCULATE HIS OWN EARTHWORK QUANTITIES NECESSARY FOR HIS BID AND WORK. 5. ESTIMATED EARTHWORK QUANTITIES ABOVE ASSUME THAT ALL ONSITE MATERIALS ARE SUITABLE FOR BACKFILLING; HOWEVER, ACTUAL EXISTING ONSITE MATERIALS AND IMPORTED MATERIALS MUST FIRST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION, REMOVAL, OR REPLACEMENT. 6. THE ESTIMATED QUANTITIES PROVIDED ABOVE INCLUDE EXCAVATION FOR THE PROPOSED POOL AND SPA.

SHEET INDEX: CIVIL DRAWINGS
C0.10 TITLE SHEET
C1.00 EROSION CONTROL PLAN
C1.10 DEMOLITION PLAN
C1.20 GRADING AND DRAINAGE PLAN
C1.21 GRADING AND DRAINAGE PLAN
C1.30 HORIZONTAL CONTROL AND PAVING PLAN
C1.40 UTILITY PLAN
C5.00 CIVIL DETAILS
C5.01 CIVIL DETAILS



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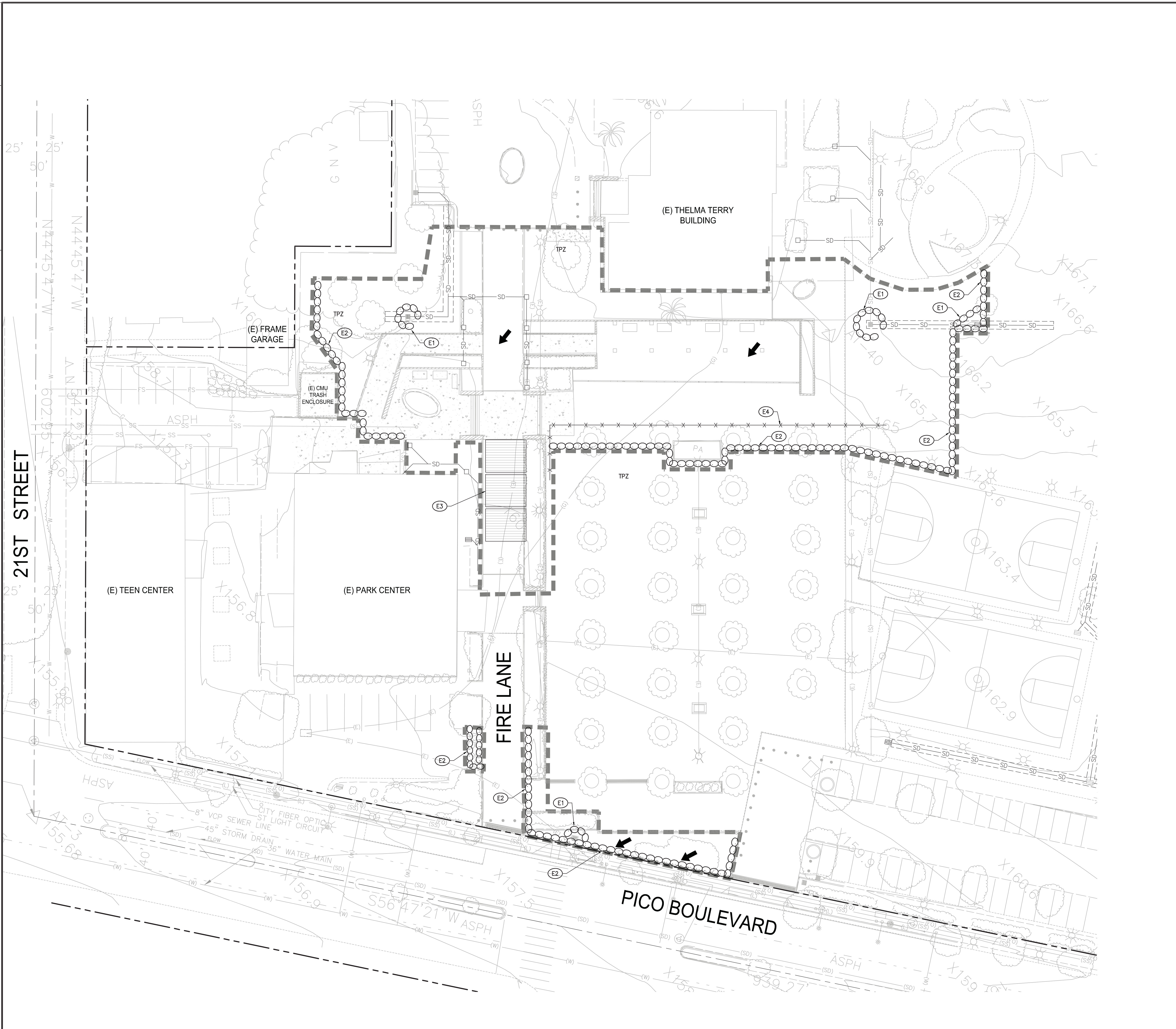
Table with columns: DATE, SUBMITTED BY, APPROVED BY, REVIEWED BY. Includes names like Mersam Mukherjee and City of Santa Monica Department of Public Works.

CITY CLIENT

Table with columns: NO., DATE, DESCRIPTION, REVISIONS. Includes entry for 07.24.12 BULLETIN 2.

RAINWATER HARVESTING

DATE 07.24.12 DRAWING NO. 6693 SHEET TITLE Title Sheet



- BMP NOTES:**  
 THE FOLLOWING BMPs AS OUTLINED IN, BUT NOT LIMITED TO, THE BEST MANAGEMENT PRACTICE HANDBOOK, CALIFORNIA STORMWATER QUALITY TASK FORCE, SACRAMENTO, CALIFORNIA, NOVEMBER 2009, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY CITY INSPECTORS):
- EROSION CONTROL**
    - EC1-SCHEDULING
    - EC2-PRESERVATION OF EXISTING VEGETATION
    - EC3-HYDRAULIC MULCH
    - EC4-HYDROSEEDING
    - EC5-SOIL BINDERS
    - EC6-STRAW MULCH
    - EC7-GEOTEXTILES AND MATS
    - EC8-WOOD MULCHING
    - EC9-EARTH DIKES AND DRAINAGE SWALES
    - EC10-VELOCITY DISSIPATION DEVICES
    - EC11-SLOPE DRAINS
    - EC12-STREAMBANK STABILIZATION
    - EC13-RESERVED
    - EC14-COMPOST BLANKET
    - EC15-SOIL PREPARATION/ROUGHENING
    - EC16-NON-VEGETATIVE STABILIZATION
  - WIND EROSION CONTROL**
    - WE1-WIND EROSION CONTROL
  - NON-STORMWATER MANAGEMENT**
    - NS1-WATER CONSERVATION PRACTICES
    - NS2-DEWATERING OPERATIONS
    - NS3-SAVING AND GRINDING OPERATIONS
    - NS4-TEMPORARY STREAM CROSSING
    - NS5-CLEAR WATER DIVERSION
    - NS6-ILLEGAL CONNECTION/DISCHARGE
    - NS7-POTABLE WATER/IRRIGATION
    - NS8-VEHICLE AND EQUIPMENT CLEANING
    - NS9-VEHICLE AND EQUIPMENT FUELING
    - NS10-VEHICLE AND EQUIPMENT MAINTENANCE
    - NS11-PILE DRIVING OPERATIONS
    - NS12-CONCRETE CURING
    - NS13-CONCRETE FINISHING
    - NS14-MATERIAL AND EQUIPMENT USE
    - NS15-DEMOLITION-ADJACENT TO WATER
    - NS16-TEMPORARY BATCH PLANTS
  - TEMPORARY SEDIMENT CONTROL**
    - SE1-SILT FENCE
    - SE2-SEDIMENT BASIN
    - SE3-SEDIMENT TRAP
    - SE4-CHECK DAM
    - SE5-FIBER ROLLS
    - SE6-GRAVEL BAG BERM
    - SE7-STREET SWEEPING AND VACUUMING
    - SE8-SANDBAG BARRIER
    - SE9-STRAW BALE BARRIER
    - SE10-STORM DRAIN INLET PROTECTION
    - SE11-ACTIVE TREATMENT SYSTEMS
    - SE12-TEMPORARY SILT DIKE
    - SE13-COMPOST SOCKS AND BERMS
    - SE14-BIOFILTER BAGS
  - EQUIPMENT TRACKING CONTROL**
    - TC1-STABILIZED CONSTRUCTION ENTRANCE/EXIT
    - TC2-STABILIZED CONSTRUCTION ROADWAY
    - TC3-ENTRANCE/OUTLET TIRE WASH
  - WASTE MANAGEMENT & MATERIALS POLLUTION CONTROL**
    - WM1-MATERIAL DELIVERY AND STORAGE
    - WM2-MATERIAL USE
    - WM3-STOCKPILE MANAGEMENT
    - WM4-SPILL PREVENTION AND CONTROL
    - WM5-SOLID WASTE MANAGEMENT
    - WM6-HAZARDOUS WASTE MANAGEMENT
    - WM7-CONTAMINATED SOIL MANAGEMENT
    - WM8-CONCRETE WASTE MANAGEMENT
    - WM9-SANITARY/SEPTIC WASTE MANAGEMENT
    - WM10-LIQUID WASTE MANAGEMENT

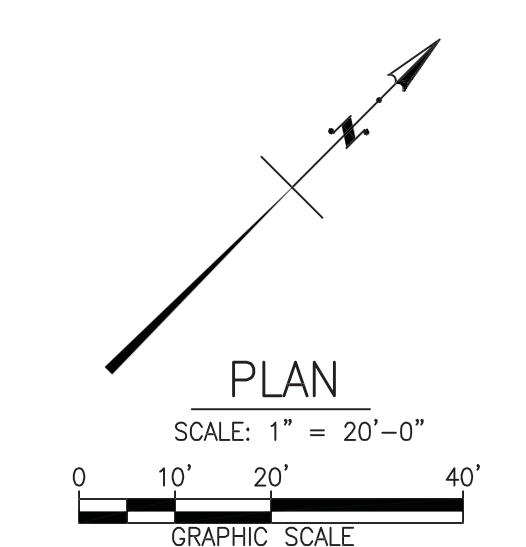
- EROSION CONTROL NOTES:**
- TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES TO MEET "AS GRADED" CONDITIONS.
  - ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR.
  - WHEN THE INSPECTOR SO DIRECTS, A 12-INCH BERM SHALL BE MAINTAINED ALONG THE TOP OF THE SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROGRESS.
  - STORM AND SEWER DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH SANDBAGS.
  - EXCEPT WHEN THE INSPECTOR DIRECTS OTHERWISE, ALL DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS FORECAST, AND SHALL BE MAINTAINED DURING THE RAINY SEASON (OCTOBER 15 TO APRIL 15).
  - SANDBAGS SHALL BE STOCKPILED ON SITE, READY TO BE PLACED IN POSITION WHEN RAIN IS FORECAST, OR WHEN THE INSPECTOR SO DIRECTS.
  - A "STANDBY EMERGENCY CREW" SHALL BE ALERTED BY THE PERMITTEE OR THE CONTRACTOR TO PERFORM EMERGENCY WORK DURING RAINSTORMS. THE PARTY TO BE CONTACTED IS: \_\_\_\_\_ (TO BE FILLED IN BY CONTRACTOR)  
 NAME: \_\_\_\_\_  
 PHONE NUMBER: \_\_\_\_\_

- EROSION CONTROL NOTES:**
- DUST SHALL BE CONTROLLED BY WATERING AND/OR APPLYING A DUST PALLIATIVE. THE DUST PALLIATIVE SHALL BE APPLIED IN THE AMOUNT AT THE LOCATIONS AS DIRECTED BY THE ENGINEER.
  - WATER FOR DUST CONTROL SHALL BE APPLIED BY MEANS OF PRESSURE TYPE DISTRIBUTORS OR PIPE LINES EQUIPPED WITH A SPAY SYSTEM OR HOSES WITH NOZZLES THAT WILL INSURE A UNIFORM APPLICATION OF WATER.
  - UNLESS WATER IS APPLIED BY MEANS OF PIPE LINES, AT LEAST ONE MOBILE UNIT WITH A MINIMUM CAPACITY OF 100 GALLONS SHALL BE AVAILABLE FOR APPLYING WATER.
  - ALL SOIL MATERIALS OR DEBRIS TRUCKED FROM THE SITE SHALL BE COVERED AND SPRINKLED PRIOR TO ENTERING PUBLIC STREETS.
  - PROVIDE FOR WET SUPPRESSION OR CHEMICAL STABILIZING OF EXPOSED SOILS.
  - PROVIDE FOR RAPID CLEAN-UP OF SEDIMENTS DEPOSITED ON THE PAVED ROADS.
  - LIMIT THE AMOUNT OF AREAS DISTURBED BY CLEARING & EARTH MOVING OPERATIONS BY SCHEDULING THESE ACTIVITIES IN PHASES.

- EROSION CONTROL CONSTRUCTION NOTES:**
- (E1) PROVIDE INLET PROTECTION PER DETAIL 1, ON SHEET C5.00.
  - (E2) PLACE SANDBAGS TRIPLE ROW PER DETAIL 2, ON SHEET C5.00.
  - (E3) STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 3, ON SHEET C5.00.
  - (E4) 6' CHAIN LINK FENCE AROUND PARKWAY, TREE PROTECTION ZONE, PER CITY OF SANTA MONICA STANDARDS.

- LEGEND:**
- [Dashed Line] LIMIT LINE OF EROSION CONTROL
  - [Sandbags] SANDBAGS
  - [Arrows] FLOW ARROWS
  - [X-X] 6' CHAIN LINK FENCE AROUND CITY STREET TREES PROTECTION ZONE DURING ALL STAGES OF CONSTRUCTION
  - [TPZ] TREE PROTECTION ZONE, SEE SHEET C0.10 FOR ADDITIONAL DETAILS

- TREE PROTECTION ZONE (TPZ) NOTES:**
- COORDINATE ALL OFF-SITE IMPROVEMENTS WITHIN THE TPZ WITH THE COMMUNITY FORESTERS OFFICE.
  - NO CONSTRUCTION MATERIALS OR ACTIVITIES ALLOWED IN THIS AREA.
  - PRUNING OF CITY TREES TO PROVIDE CLEARANCE FOR CONSTRUCTION ACTIVITIES SHALL ONLY BE DONE BY CITY OF SANTA MONICA COMMUNITY FOREST OPERATIONS.
  - FENCE THE TPZ AS SHOWN WITH A 6' CHAIN LINK FENCE TO PREVENT WOUNDS TO THE TREE AND SOIL COMPACTION WITHIN THE ROOT ZONE. POST THE FENCE WITH A SIGN STATING "TREE PROTECTION ZONE - KEEP OUT".
- REFER TO TREE PROTECTION ZONE GUIDELINES ON SHEET C0.10 FOR FURTHER INFORMATION.



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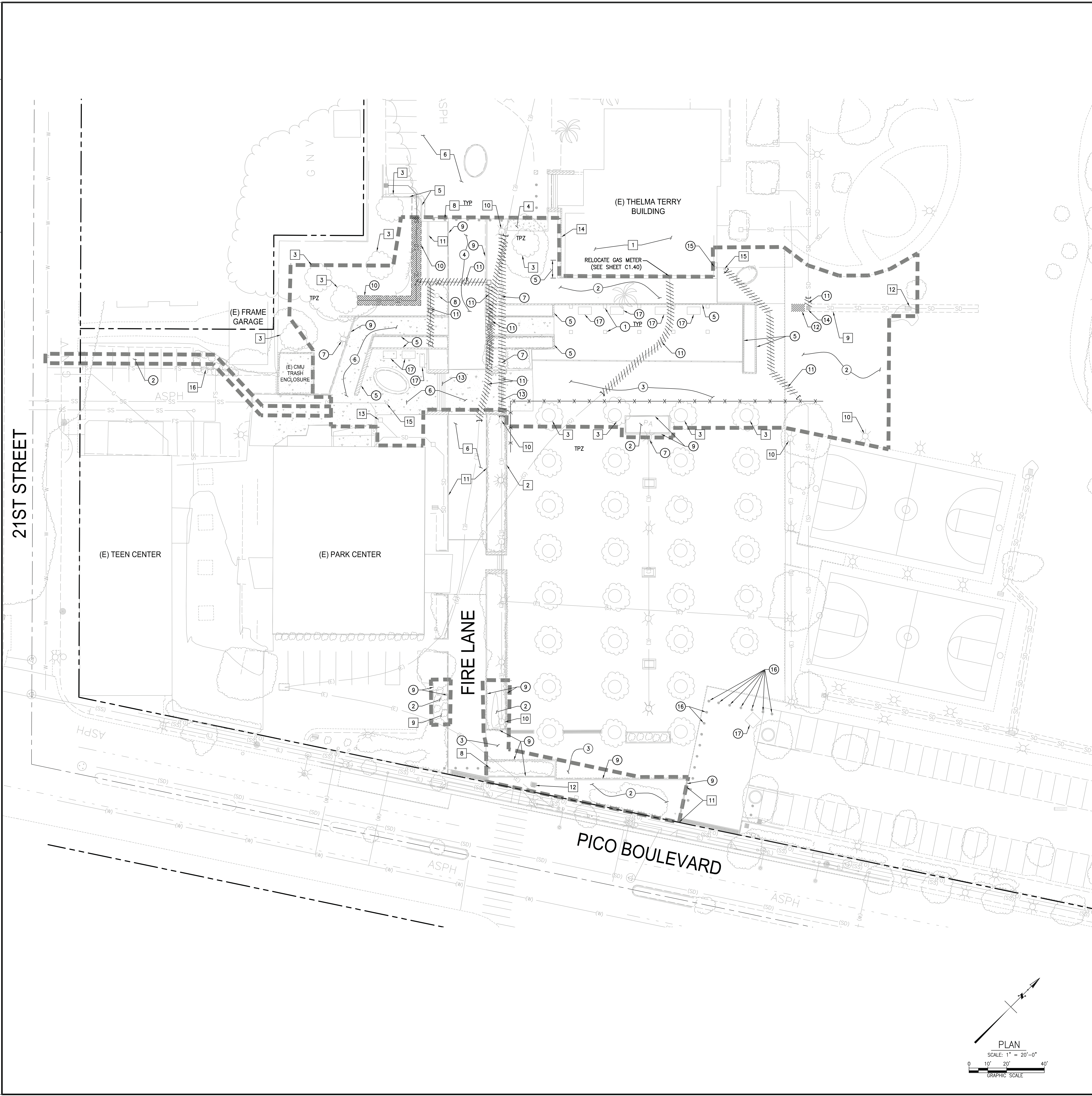
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SUBMITTED BY:	DATE: _____ 20__
APPROVED BY:	DATE: _____ 20__
REVIEWED BY:	DATE: _____ 20__
REVIEWED BY:	DATE: _____ 20__
REVIEWED BY:	DATE: _____ 20__
CITY CLIENT	

NO.	DATE	BY	DESCRIPTION
07.24.12			BULLETIN 2
REVISIONS			

ISSUE  
**RAINWATER HARVESTING**  
 DATE 07.24.12  
 DRAWING NO. **6693**  
 SHEET TITLE  
**Erosion Control Plan**  
 SHEET NO.  
**C1.00**



**GENERAL DEMOLITION NOTES:**

1. CONTRACTOR TO CLEAR PROJECT SITE AREA WITHIN THE CONFINES OF THE DEMOLITION LIMIT LINE. THE CONTRACTOR SHALL DEMOLISH AND REMOVE FROM THE SITE ALL EXISTING UTILITIES, STRUCTURES, PLANTERS, TREES, AND ALL OTHER SITE FEATURES, UNLESS OTHERWISE NOTED ON THE PLAN.
2. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS AND SHALL PAY ALL FEES NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
5. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING ABOVE AND UNDERGROUND UTILITIES. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE SHOWN FOR GENERAL INFORMATION ONLY.
6. DAMAGE TO ANY EXISTING UTILITIES AND SERVICES TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
7. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAINS, SANITARY SEWERS AND STREETS.
8. DUST CONTROL SHALL BE IMPLEMENTED DURING DEMOLITION.
9. DEMOLITION IS LIMITED TO WITHIN DEMOLITION LIMIT LINE UNLESS NOTED OTHERWISE.
10. THE CONTRACTOR SHALL VERIFY THE LOCATION AND QUANTITY OF EXISTING SURFACE STRUCTURES AND SHALL BE SOLELY RESPONSIBLE FOR ANY UNIDENTIFIED UTILITIES, IMPROVEMENTS, TREES, ETC. TO BE DEMOLISHED AND REMOVED WITHIN THE DEMOLITION LIMIT LINE, INCLUDING APPURTENANT FOUNDATIONS OR SUPPORTS.
11. DEMOLITION CALLOUTS IN THIS SECTION ARE REPRESENTATIVE OF WHAT IS TO BE DONE, NOT AN ITEMIZED ACCOUNTING FOR EACH PIPE, CATCH BASIN, MANHOLE, VAULT, ETC. THAT IS TO BE DEMOLISHED, REMOVED AND DISPOSED OF.

**DEMOLITION NOTES:**

- PROTECT-IN-PLACE**
1. PROTECT-IN-PLACE EXISTING BUILDING. SEE ARCHITECTURAL PLANS FOR SELECTIVE DEMOLITION.
  2. PROTECT-IN-PLACE EXISTING SEAT WALL.
  3. PROTECT-IN-PLACE EXISTING TREE.
  4. PROTECT-IN-PLACE EXISTING SIDEWALK.
  5. PROTECT-IN-PLACE EXISTING CURB AND GUTTER.
  6. PROTECT-IN-PLACE EXISTING ASPHALT PAVEMENT.
  7. NOT USED.
  8. PROTECT-IN-PLACE EXISTING BOLLARDS.
  9. PROTECT-IN-PLACE PORTION OF EXISTING INFILTRATION TRENCH.
  10. PROTECT-IN-PLACE EXISTING YARD LIGHT.
  11. PROTECT-IN-PLACE EXISTING CURB.
  12. PROTECT-IN-PLACE EXISTING CATCH BASIN.
  13. PROTECT-IN-PLACE EXISTING PLANTER DRAIN.
  14. PROTECT-IN-PLACE EXISTING SITE WALL.
  15. PROTECT-IN-PLACE EXISTING SANITARY SEWER CLEANOUT.
  16. PROTECT-IN-PLACE EXISTING BACKFLOW PREVENTION DEVICE.
- REMOVE & DEMOLISH**
1. DEMOLISH EXISTING TRELLIS. SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR DETAILS.
  2. SEE GENERAL DEMOLITION NOTES HEREON.
  3. DEMOLISH EXISTING RESIN PAVEMENT.
  4. DEMOLISH EXISTING ASPHALT PAVEMENT.
  5. DEMOLISH EXISTING SITEWALL.
  6. DEMOLISH EXISTING CONCRETE PAVEMENT.
  7. REMOVE AND RELOCATE EXISTING YARD LIGHT. SEE ELECTRICAL PLANS FOR NEW LOCATION.
  8. REMOVE AND RELOCATE EXISTING FLAG POLE. SEE ARCHITECTURAL PLANS FOR NEW LOCATION.
  9. DEMOLISH EXISTING CONCRETE CURB.
  10. DEMOLISH EXISTING INFILTRATION TRENCH INCLUDING ITS LONGITUDINAL PERFORATED PIPE AND TEST STATION.
  11. DEMOLISH EXISTING UTILITY. CONTRACTOR TO CONFIRM SIZE AND LOCATION OF EXISTING UTILITY PRIOR TO CONSTRUCTION.
  12. DEMOLISH PORTION OF EXISTING INFILTRATION TRENCH INCLUDING ITS LONGITUDINAL PERFORATED PIPE.
  13. DEMOLISH EXISTING CONCRETE STAIRS.
  14. REMOVE EXISTING CATCH BASIN.
  15. REMOVE AND RELOCATE EXISTING WATER VALVE.
  16. REMOVE EXISTING BOLLARDS FOR REUSE.
  17. REMOVE EXISTING CONCRETE TABLE AND CHAIR WHERE OCCUR.

**LEGEND:**

- LIMIT LINE OF DEMOLITION
- x - x - 6' CHAIN LINK FENCE AROUND CITY STREET TREES PROTECTION ZONE DURING ALL STAGES OF CONSTRUCTION
- ////// TO BE DEMOLISHED
- TPZ TREE PROTECTION ZONE, SEE SHEET C0.10 FOR ADDITIONAL DETAILS
- ] CAP PIPE FUTURE FOR POINT OF CONNECTION/STUB OUT

**TREE PROTECTION ZONE (TPZ) NOTES:**

1. COORDINATE ALL OFF-SITE IMPROVEMENTS WITHIN THE TPZ WITH THE COMMUNITY FORESTERS OFFICE.
2. NO CONSTRUCTION MATERIALS OR ACTIVITIES ALLOWED IN THIS AREA.
3. PRUNING OF CITY TREES TO PROVIDE CLEARANCE FOR CONSTRUCTION ACTIVITIES SHALL ONLY BE DONE BY CITY OF SANTA MONICA COMMUNITY FOREST OPERATIONS.
4. FENCE THE TPZ AS SHOWN WITH A 6' CHAIN LINK FENCE TO PREVENT WOUNDS TO THE TREE AND SOIL COMPACTION WITHIN THE ROOT ZONE. POST THE FENCE WITH A SIGN STATING "TREE PROTECTION ZONE - KEEP OUT". REFER TO TREE PROTECTION ZONE GUIDELINES ON SHEET C0.10 FOR FURTHER INFORMATION.

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SUBMITTED BY:	_____
DATE:	_____ 20__
APPROVED BY:	_____
Miriam Muller	Architecture Services Manager
CITY OF SANTA MONICA	DEPARTMENT OF PUBLIC WORKS
REVIEWED BY:	DATE: _____ 20__
REVIEWED BY:	DATE: _____ 20__
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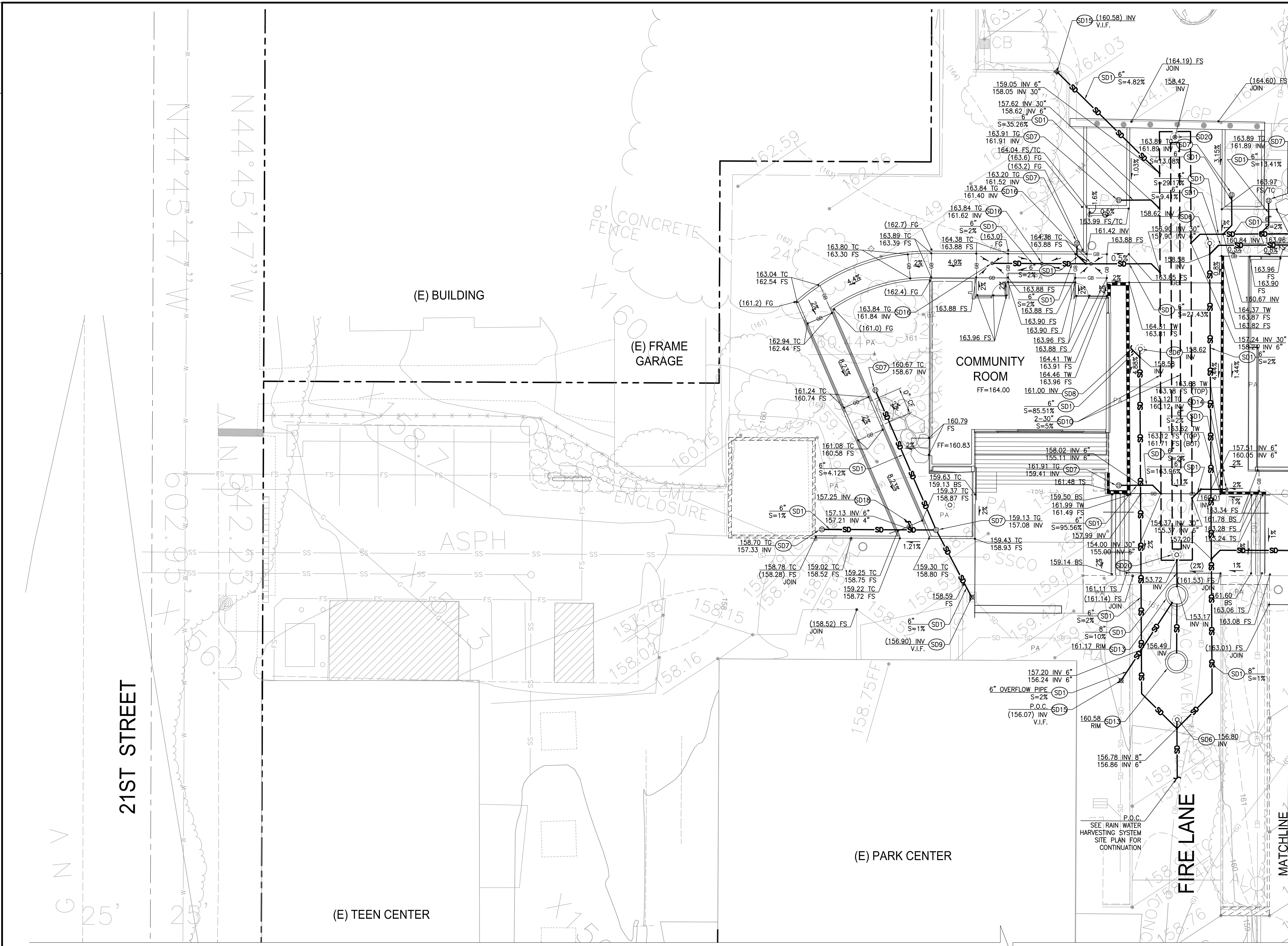
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REVISIONS			

**ISSUE RAINWATER HARVESTING**

DATE: 07.24.12  
 DRAWING NO. **6693**

SHEET TITLE  
**Demolition Plan**

P:2009.109294 Pico Branch Library, Santa Monica, CA SHEET: Rainwater Harvesting Plan 109294-C1.20 (P) 07.24.12 - 1:30pm

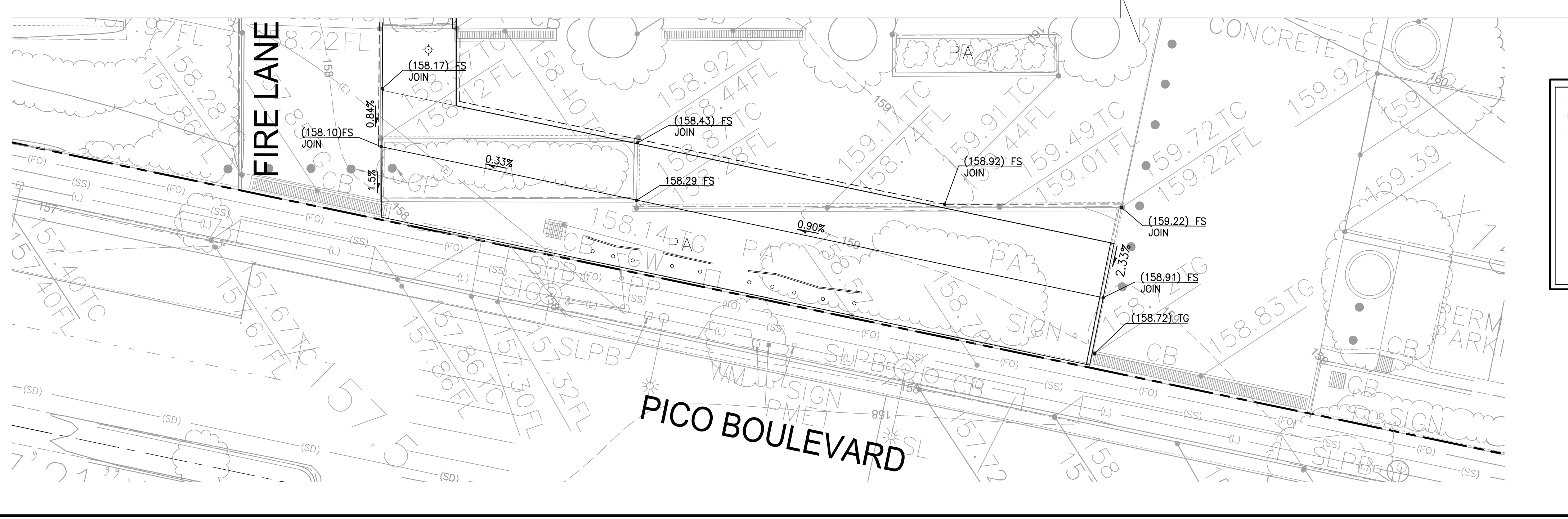


**UTILITY CONSTRUCTION NOTES:**

- STORM DRAIN**
- (SD1) PVC, SDR-35 STORM DRAIN PIPE PER DETAIL 8, ON SHEET C5.00. SIZE AND SLOPE PER PLAN.
  - (SD2) 24"x24" PRECAST CONCRETE CATCH BASIN PER BROOKS PRODUCTS 2424 CB WITH PARKWAY RATED CAST IRON GRATE OR APPROVED EQUAL. SEE DETAIL 2, ON SHEET C5.01.
  - (SD3) NOT USED.
  - (SD4) NOT USED.
  - (SD5) NOT USED.
  - (SD6) STANDARD CLEANOUT PER DETAIL 6, ON SHEET C5.00.
  - (SD7) PLANTER DRAIN PER DETAIL 1, ON SHEET C5.01.
  - (SD8) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
  - (SD9) CONNECTION TO EXISTING PLANTER DRAIN. CONTRACTOR TO COORDINATE LOCATION AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION.
  - (SD10) HDPE STORM DRAIN PIPE. SIZE AND SLOPE PER PLAN.
  - (SD11) 12"x12" PRECAST CONCRETE CATCH BASIN PER BROOKS PRODUCTS 1212 CB WITH PARKWAY RATED CAST IRON GRATE OR APPROVED EQUAL. SEE DETAIL 5, ON SHEET C5.01.
  - (SD12) NOT USED.
  - (SD13) MODIFIED MAXWELL PLUS DRAINAGE SYSTEM PER DETAIL 8, ON SHEET C5.01.
  - (SD14) AREA DRAIN PER JAY R. SMITH 2005 Y-PIPE SIZE A8PB OR APPROVED EQUIVALENT. LATERALS FROM AREA DRAIN SHALL BE 6" PVC UNLESS NOTED OTHERWISE.
  - (SD15) CONNECT TO EXISTING 6" PVC STORM DRAIN PIPE. CONTRACTOR TO COORDINATE LOCATION AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION.
  - (SD16) AREA DRAIN PER JAY R. SMITH 2005 Y-PIPE SIZE A8PB OR APPROVED EQUIVALENT. LATERALS FROM AREA DRAIN CONNECTING TO MAIN SHALL BE 6" PVC UNLESS NOTED OTHERWISE.
  - (SD17) NOT USED.
  - (SD18) POINT OF CONNECTION. SEE LANDSCAPE DRAWINGS FOR CONTINUATION.
  - (SD19) BREAK INTO EXISTING CATCH BASIN AND CONNECT NEW 6" PIPE. CONTRACTOR TO COORDINATE LOCATION AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION.
  - (SD20) INSTALL 12" MONITORING WELL.

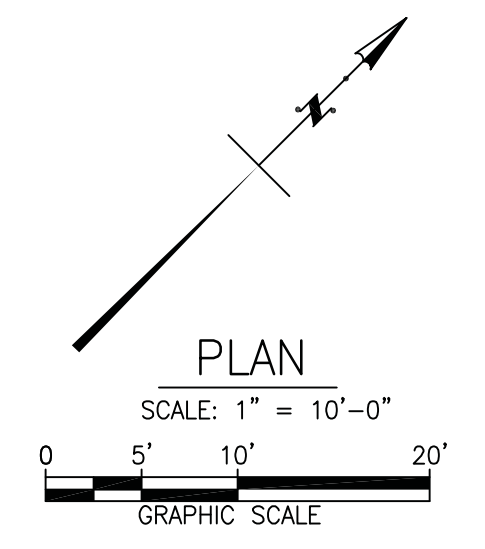
**TREE PROTECTION ZONE (TPZ) NOTES:**

1. COORDINATE ALL OFF-SITE IMPROVEMENTS WITHIN THE TPZ WITH THE COMMUNITY FORESTERS OFFICE.
  2. NO CONSTRUCTION MATERIALS OR ACTIVITIES ALLOWED IN THIS AREA.
  3. PRUNING OF CITY TREES TO PROVIDE CLEARANCE FOR CONSTRUCTION ACTIVITIES SHALL ONLY BE DONE BY CITY OF SANTA MONICA COMMUNITY FOREST OPERATIONS.
  4. FENCE THE TPZ AS SHOWN WITH A 6' CHAIN LINK FENCE TO PREVENT WOUNDS TO THE TREE AND SOIL COMPACTION WITHIN THE ROOT ZONE. POST THE FENCE WITH A SIGN STATING "TREE PROTECTION ZONE - KEEP OUT".
- REFER TO TREE PROTECTION ZONE GUIDELINES ON SHEET C0.10 FOR FURTHER INFORMATION.
- SEE LANDSCAPE DRAWINGS FOR TREE PROTECTION PLAN.
- NOTE:**
1. EXCAVATION SHALL BE MADE IN COMPLIANCE WITH CAL/OSHA REGULATIONS.



THE GEOTECHNICAL ENGINEER HAS REVIEWED AND APPROVED THE URBAN RUN-OFF MITIGATION SYSTEM, INCLUDING CONFIRMING ADEQUATE PERCOLATION.

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ARCHITECT'S PROJECT NO.  
**1001**

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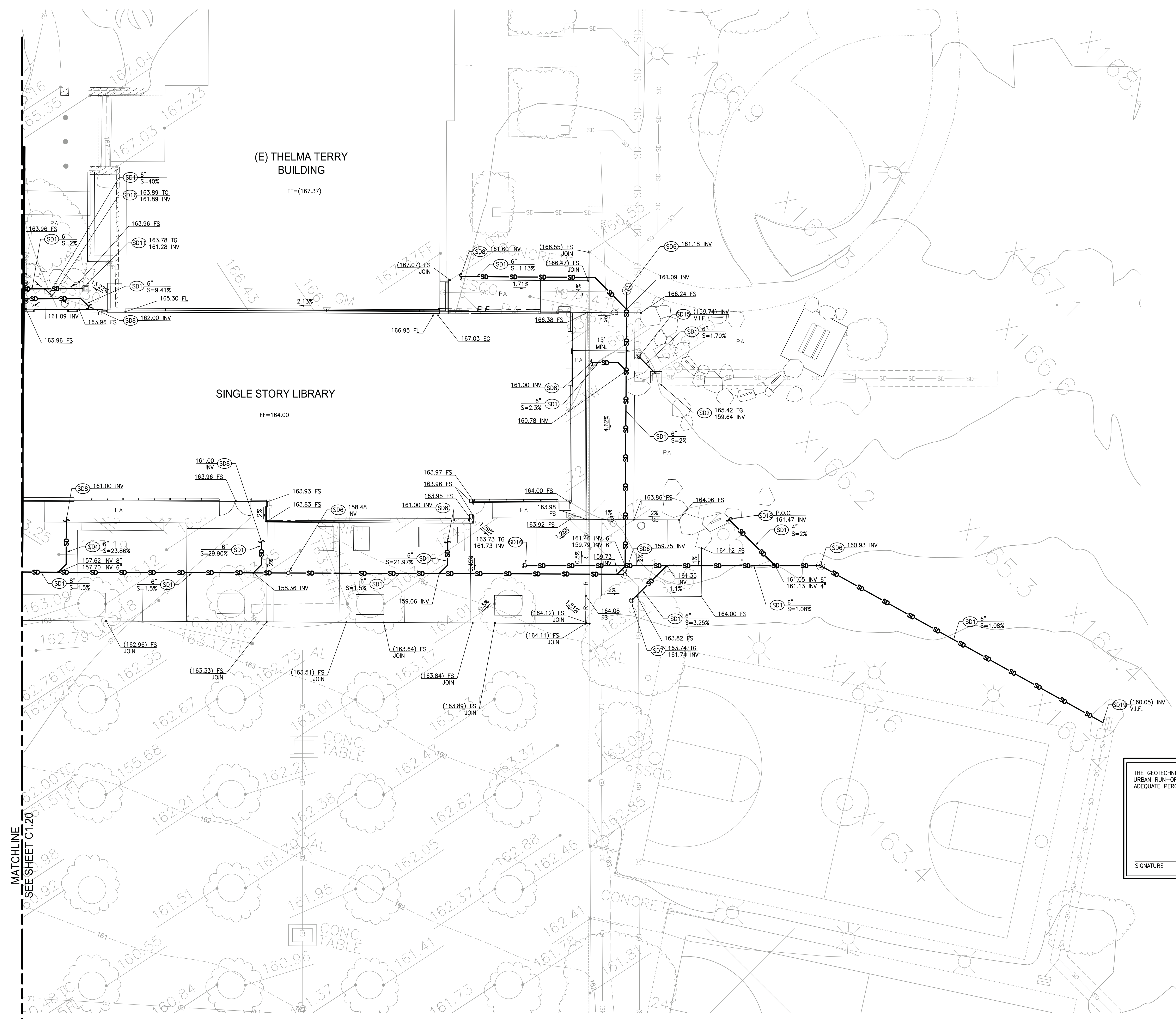
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DATE:	07.24.12
APPROVED BY:	Miriam Muller, Architecture Services Manager
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REVIEWED BY:	DATE: 07.24.12
REVIEWED BY:	DATE: 07.24.12
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**RAINWATER HARVESTING**  
 DATE: 07.24.12  
 DRAWING NO. **6693**  
 SHEET TITLE  
**Grading and Drainage Plan**  
 SHEET NO.  
**C1.20**



**UTILITY CONSTRUCTION NOTES:**

- STORM DRAIN**
- (SD1) PVC, SDR-35 STORM DRAIN PIPE PER DETAIL 8, ON SHEET C5.00. SIZE AND SLOPE PER PLAN.
  - (SD2) 24"x24" PRECAST CONCRETE CATCH BASIN PER BROOKS PRODUCTS 2424 CB WITH PARKWAY RATED CAST IRON GRATE OR APPROVED EQUAL. SEE DETAIL 2, ON SHEET C5.01.
  - (SD3) NOT USED.
  - (SD4) NOT USED.
  - (SD5) NOT USED.
  - (SD6) STANDARD CLEANOUT PER DETAIL 6, ON SHEET C5.00.
  - (SD7) PLANTER DRAIN PER DETAIL 1, ON SHEET C5.01.
  - (SD8) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
  - (SD9) CONNECTION TO EXISTING PLANTER DRAIN. CONTRACTOR TO COORDINATE LOCATION AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION.
  - (SD10) HDPE STORM DRAIN PIPE. SIZE AND SLOPE PER PLAN.
  - (SD11) 12"x12" PRECAST CONCRETE CATCH BASIN PER BROOKS PRODUCTS 1212 CB WITH PARKWAY RATED CAST IRON GRATE OR APPROVED EQUAL. SEE DETAIL 5, ON SHEET C5.01.
  - (SD12) NOT USED.
  - (SD13) MODIFIED MAXWELL PLUS DRAINAGE SYSTEM PER DETAIL 8, ON SHEET C5.01.
  - (SD14) AREA DRAIN PER JAY R. SMITH 2005 Y-PIPE SIZE ABPB OR APPROVED EQUIVALENT. LATERALS FROM AREA DRAIN SHALL BE 6" PVC UNLESS NOTED OTHERWISE.
  - (SD15) CONNECT TO EXISTING 6" PVC STORM DRAIN PIPE. CONTRACTOR TO COORDINATE LOCATION AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION.
  - (SD16) AREA DRAIN PER JAY R. SMITH 2005 Y-PIPE SIZE ABPB OR APPROVED EQUIVALENT. LATERALS FROM AREA DRAIN CONNECTING TO MAIN SHALL BE 6" PVC UNLESS NOTED OTHERWISE.
  - (SD17) NOT USED.
  - (SD18) POINT OF CONNECTION. SEE LANDSCAPE DRAWINGS FOR CONTINUATION.
  - (SD19) BREAK INTO EXISTING CATCH BASIN AND CONNECT NEW 6" PIPE. CONTRACTOR TO COORDINATE LOCATION AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION.
  - (SD20) INSTALL 12" MONITORING WELL.

**TREE PROTECTION ZONE (TPZ) NOTES:**

1. COORDINATE ALL OFF-SITE IMPROVEMENTS WITHIN THE TPZ WITH THE COMMUNITY FORESTERS OFFICE.
  2. NO CONSTRUCTION MATERIALS OR ACTIVITIES ALLOWED IN THIS AREA.
  3. PRUNING OF CITY TREES TO PROVIDE CLEARANCE FOR CONSTRUCTION ACTIVITIES SHALL ONLY BE DONE BY CITY OF SANTA MONICA COMMUNITY FOREST OPERATIONS.
  4. FENCE THE TPZ AS SHOWN WITH A 6" CHAIN LINK FENCE TO PREVENT WOUNDS TO THE TREE AND SOIL COMPACTION WITHIN THE ROOT ZONE. POST THE FENCE WITH A SIGN STATING "TREE PROTECTION ZONE - KEEP OUT".
- REFER TO TREE PROTECTION ZONE GUIDELINES ON SHEET C0.10 FOR FURTHER INFORMATION.
- SEE LANDSCAPE DRAWINGS FOR TREE PROTECTION PLAN.

**NOTE:**

1. EXCAVATION SHALL BE MADE IN COMPLIANCE WITH CAL/OSHA REGULATIONS.

THE GEOTECHNICAL ENGINEER HAS REVIEWED AND APPROVED THE URBAN RUN-OFF MITIGATION SYSTEM, INCLUDING CONFIRMING ADEQUATE PERCOLATION.

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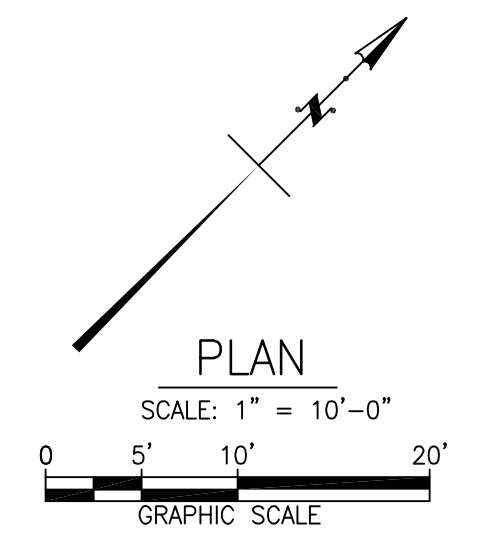
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DATE: \_\_\_\_\_ 20\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
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Architecture Services Manager  
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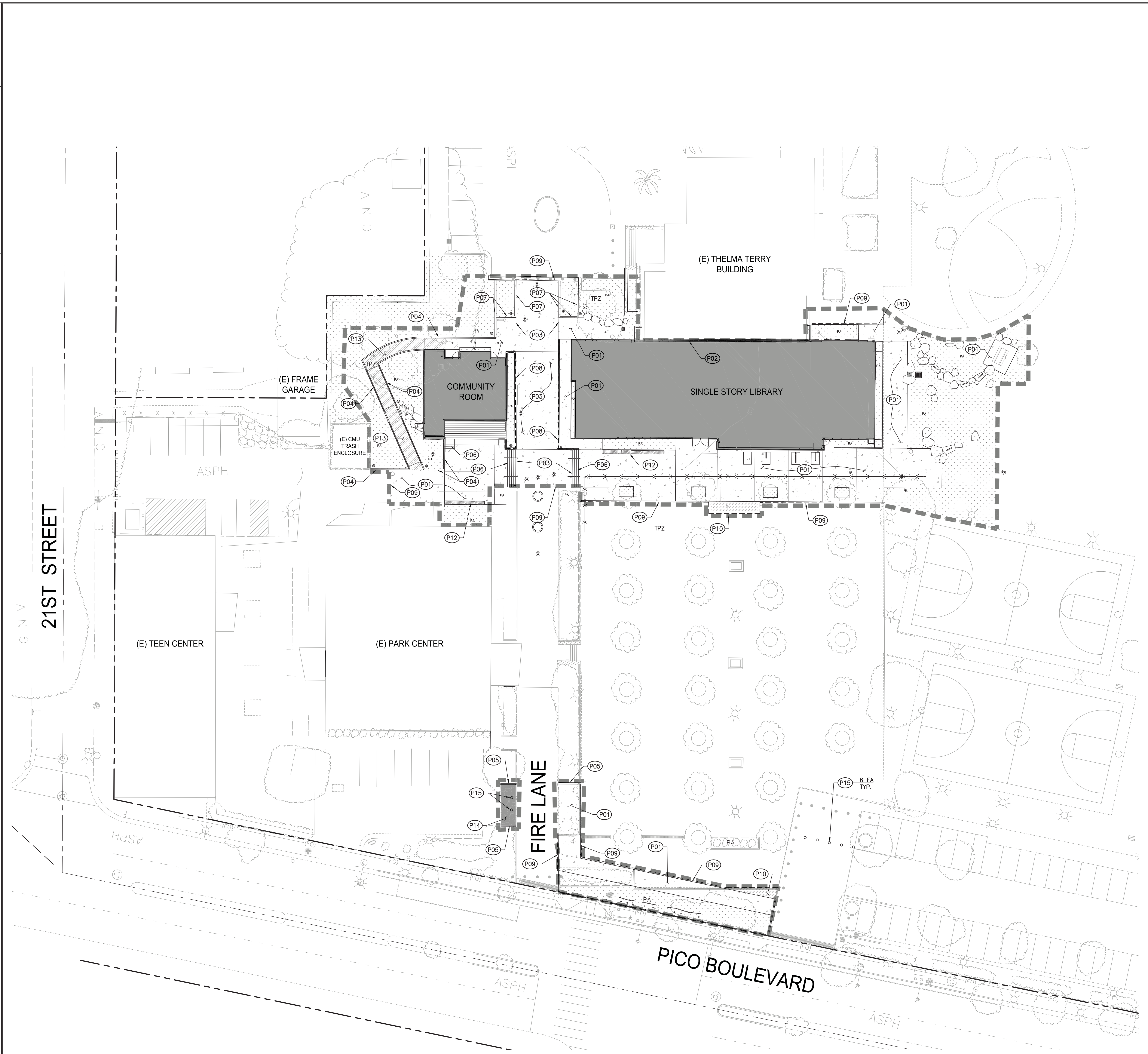
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**RAINWATER HARVESTING**  
DATE: \_\_\_\_\_  
DRAWING NO. **6693**  
SHEET TITLE  
**Grading and Drainage Plan**  
SHEET NO.

**C1.21**





**PAVING CONSTRUCTION NOTES:**

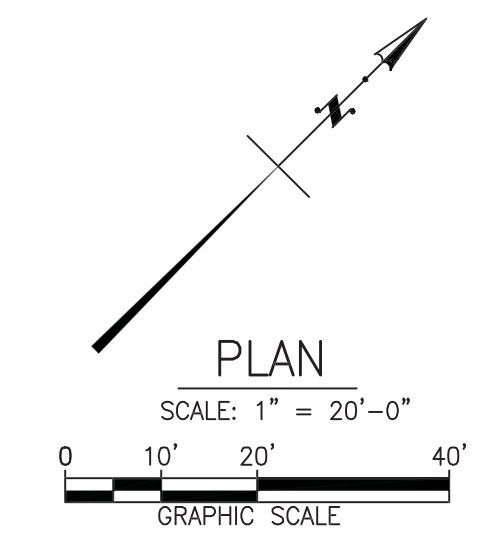
- (P01) CONCRETE WALK PER DETAIL 4 ON SHEET C5.01. SEE LANDSCAPE PLANS FOR COLOR, PATTERN, TEXTURE AND FINISH.
- (P02) CONCRETE VALLEY GUTTER PER DETAIL 2 ON SHEET C5.01. SEE LANDSCAPE PLANS FOR COLOR, PATTERN, TEXTURE AND FINISH.
- (P03) CONCRETE PAVEMENT PER DETAIL 10 ON SHEET C5.00.
- (P04) RAISED CURB. REFER TO LANDSCAPE PLANS FOR DETAILS.
- (P05) RAISED CURB. REFER TO LANDSCAPE PLANS FOR DETAILS.
- (P06) C.I.P. CONCRETE STEPS WITH HANDRAILS. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
- (P07) MOW CURB. REFER TO LANDSCAPE PLANS FOR DETAILS.
- (P08) C.I.P. CONCRETE RETAINING WALL. REFER TO LANDSCAPE PLANS FOR DETAILS.
- (P09) SAWCUT AND JOIN EXISTING ASPHALT CONCRETE PAVEMENT/CONCRETE WALK/CONCRETE PAVEMENT AND/OR RESIN PAVING.
- (P10) RESIN PAVEMENT. REFER TO LANDSCAPE PLANS FOR DETAILS.
- (P11) NOT USED.
- (P12) C.I.P. CONCRETE SEAT WALL. REFER TO LANDSCAPE PLANS FOR DETAILS.
- (P13) POROUS PAVING. REFER TO LANDSCAPE PLANS FOR DETAILS.
- (P14) ASPHALT CONCRETE PAVEMENT PER DETAIL 9 ON SHEET C5.00.
- (P15) RELOCATED BOLLARDS.

**LEGEND:**

- PROPOSED BUILDING (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
- CONCRETE (REFER TO SHEET C5.00 AND C5.01 FOR DETAILS)
- PLANTER AREA/LANDSCAPE (REFER TO LANDSCAPE PLANS FOR DETAILS)
- RESIN PAVEMENT (REFER TO LANDSCAPE PLANS FOR DETAILS)
- CONCRETE SEAT WALL (REFER TO LANDSCAPE PLANS FOR DETAILS)
- POROUS PAVING (REFER TO LANDSCAPE PLANS FOR DETAILS)
- ASPHALT PAVING (REFER TO SHEET C5.00 FOR DETAILS)
- CIVIL LIMIT OF WORK
- 6" CHAIN LINK FENCE AROUND CITY STREET TREES PROTECTION ZONE DURING ALL STAGES OF CONSTRUCTION
- TREE PROTECTION ZONE, SEE SHEET C0.10 FOR ADDITIONAL DETAILS
- SAWCUT AND JOIN

**TREE PROTECTION ZONE (TPZ) NOTES:**

1. COORDINATE ALL OFF-SITE IMPROVEMENTS WITHIN THE TPZ WITH THE COMMUNITY FORESTERS OFFICE.
  2. NO CONSTRUCTION MATERIALS OR ACTIVITIES ALLOWED IN THIS AREA.
  3. PRUNING OF CITY TREES TO PROVIDE CLEARANCE FOR CONSTRUCTION ACTIVITIES SHALL ONLY BE DONE BY CITY OF SANTA MONICA COMMUNITY FOREST OPERATIONS.
  4. FENCE THE TPZ AS SHOWN WITH A 6" CHAIN LINK FENCE TO PREVENT WOUNDS TO THE TREE AND SOIL COMPACTION WITHIN THE ROOT ZONE. POST THE FENCE WITH A SIGN STATING "TREE PROTECTION ZONE - KEEP OUT".
- REFER TO TREE PROTECTION ZONE GUIDELINES ON SHEET C0.10 FOR FURTHER INFORMATION.



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SUBMITTED BY: \_\_\_\_\_

DATE: \_\_\_\_ 20 \_\_\_\_

APPROVED BY: \_\_\_\_\_  
 Miriam Muller  
 Architecture Services Manager  
 CITY OF SANTA MONICA  
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REVIEWED BY: DATE: \_\_\_\_ 20 \_\_\_\_

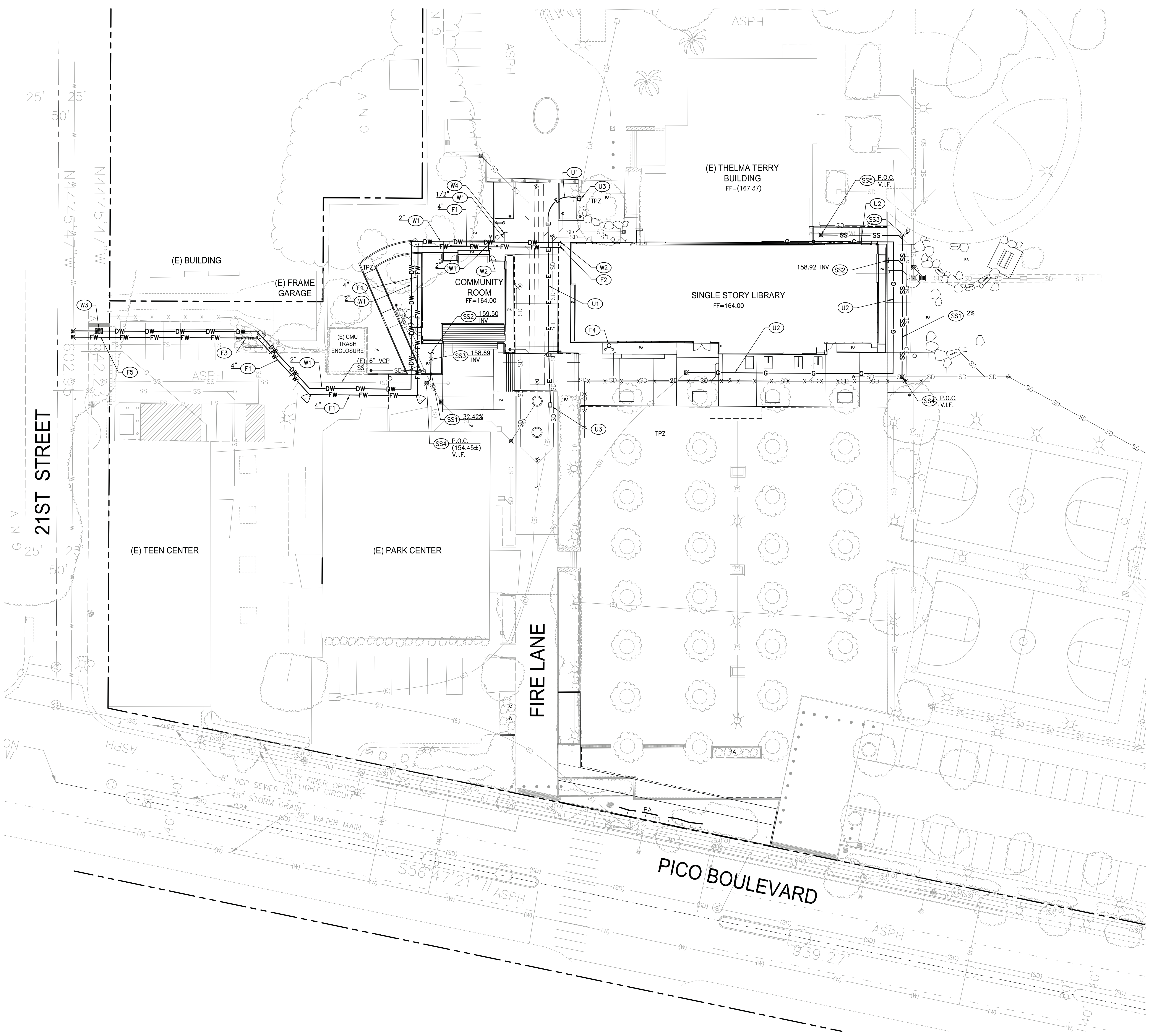
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ISSUE  
**RAINWATER HARVESTING**  
 DATE: 07.24.12  
 DRAWING NO. **6693**



UTILITY CONSTRUCTION NOTES:

- SANITARY SEWER**
- (SS1) 4" PVC, SDR-35 SANITARY SEWER PIPE PER DETAIL 8, ON SHEET C5.00. SLOPE PER PLAN.
  - (SS2) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
  - (SS3) CLEANOUT. PER DETAIL 6, ON SHEET C5.00.
  - (SS4) CONNECTION TO EXISTING SANITARY SEWER PIPE. CONTRACTOR TO COORDINATE LOCATION AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION.
  - (SS5) CONNECTION TO EXISTING SANITARY SEWER CLEANOUT. CONTRACTOR TO COORDINATE LOCATION AND INVERT ELEVATIONS.
  - (SS6) NOT USED.
  - (SS7) NOT USED.

- DOMESTIC WATER**
- (W1) PVC SCH-40 DOMESTIC WATER PIPE. SIZE PER PLAN.
  - (W2) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
  - (W3) WATER METER VAULT. INSTALLATION BY CITY OF SANTA MONICA WATER DEPARTMENT. SHOWN FOR COORDINATION PURPOSES ONLY. CONTRACTOR TO COORDINATE WATER SERVICE CONNECTION WITH LOCAL PROVIDER.
  - (W4) POINT OF CONNECTION 5 FEET FROM DRINKING FOUNTAIN. SEE PLUMBING DRAWINGS FOR CONTINUATION.

- FIRE WATER**
- (F1) PVC SCH-80 FIRE WATER PIPE. SIZE PER PLAN.
  - (F2) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
  - (F3) BACKFLOW PREVENTION DEVICE PER DETAIL 4, ON SHEET C5.00.
  - (F4) FIRE DEPARTMENT CONNECTION. SEE PLUMBING DRAWINGS FOR DETAILS.
  - (F5) FIRE SERVICE CONNECTION. INSTALLATION BY CITY OF SANTA MONICA WATER DEPARTMENT. SHOWN FOR COORDINATION PURPOSES ONLY. CONTRACTOR TO COORDINATE WATER SERVICE CONNECTION WITH LOCAL PROVIDER.
  - (F6) NOT USED.

- OTHER UTILITIES**
- (U1) ELECTRICAL CONDUIT. SEE ELECTRICAL DRAWINGS FOR DETAILS AND SPECIFICATIONS. SHOWN FOR COORDINATION PURPOSES ONLY.
  - (U2) GAS LINE. SEE GAS COMPANY DRAWINGS FOR DETAILS AND SPECIFICATIONS. SHOWN FOR COORDINATION PURPOSES ONLY.
  - (U3) ELECTRICAL PULL BOX. SEE ELECTRICAL DRAWINGS FOR DETAILS AND SPECIFICATIONS. SHOWN FOR COORDINATION PURPOSES ONLY.

LEGEND:

- X X X 6" CHAIN LINK FENCE AROUND CITY STREET TREES PROTECTION ZONE DURING ALL STAGES OF CONSTRUCTION
- TPZ TREE PROTECTION ZONE, SEE SHEET C0.10 FOR ADDITIONAL DETAILS

TREE PROTECTION ZONE (TPZ) NOTES:

1. COORDINATE ALL OFF-SITE IMPROVEMENTS WITHIN THE TPZ WITH THE COMMUNITY FORESTERS OFFICE.
  2. NO CONSTRUCTION MATERIALS OR ACTIVITIES ALLOWED IN THIS AREA.
  3. PRUNING OF CITY TREES TO PROVIDE CLEARANCE FOR CONSTRUCTION ACTIVITIES SHALL ONLY BE DONE BY CITY OF SANTA MONICA COMMUNITY FOREST OPERATIONS.
  4. FENCE THE TPZ AS SHOWN WITH A 6" CHAIN LINK FENCE TO PREVENT WOUNDS TO THE TREE AND SOIL COMPACTION WITHIN THE ROOT ZONE. POST THE FENCE WITH A SIGN STATING "TREE PROTECTION ZONE - KEEP OUT".
- REFER TO TREE PROTECTION ZONE GUIDELINES ON SHEET C0.10 FOR FURTHER INFORMATION.

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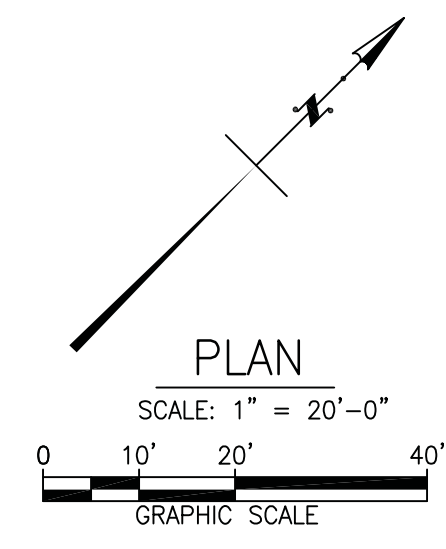
**KPII Consulting Engineers**  
 6080 Center Dr, Suite 700  
 Los Angeles, California 90045  
 (310) 965-2900 Fax (310) 965-9075

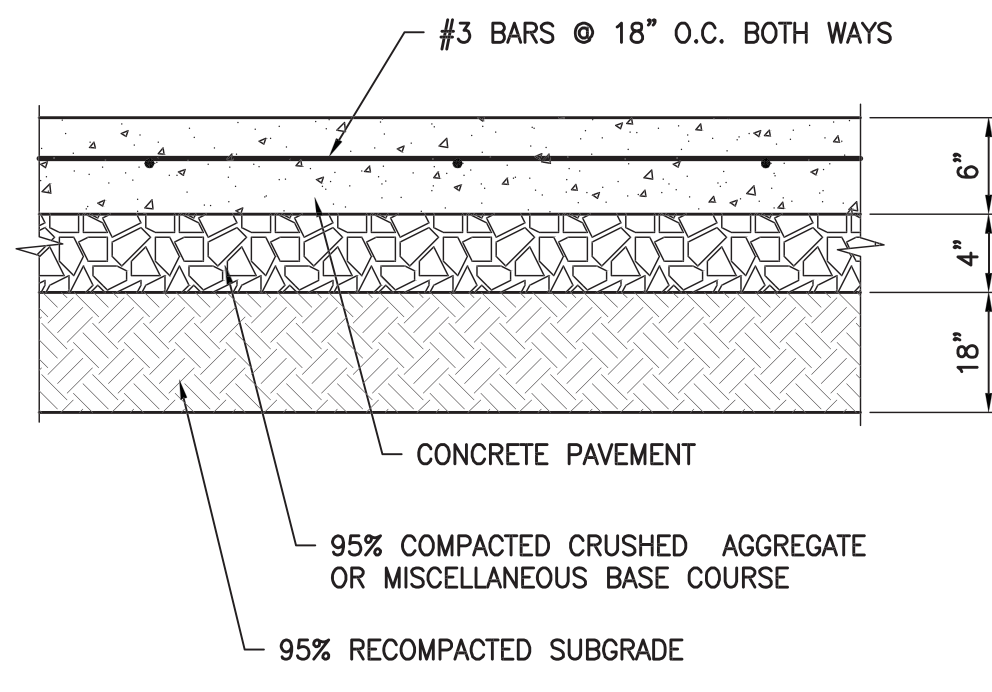
CONSULTANT  
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 SANTA MONICA, CA 90401  
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 architecture@smgov.net

SUBMITTED BY:	DATE:	20
APPROVED BY:	DATE:	20
CITY OF SANTA MONICA DEPARTMENT OF PUBLIC WORKS		
REVIEWED BY:	DATE:	20
REVIEWED BY:	DATE:	20
REVIEWED BY:	DATE:	20

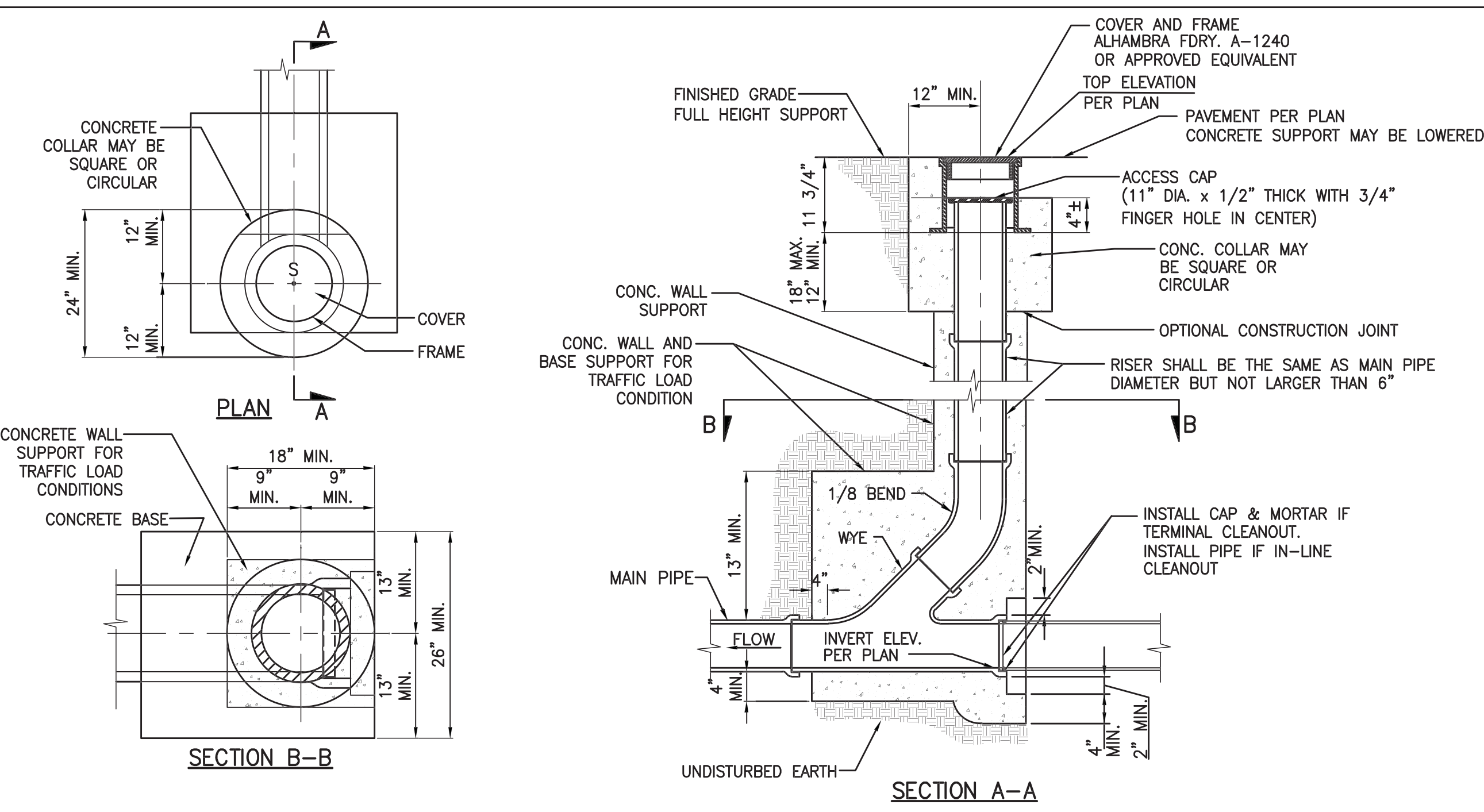
CITY CLIENT

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07.24.12			BULLETIN 2
REVISIONS			

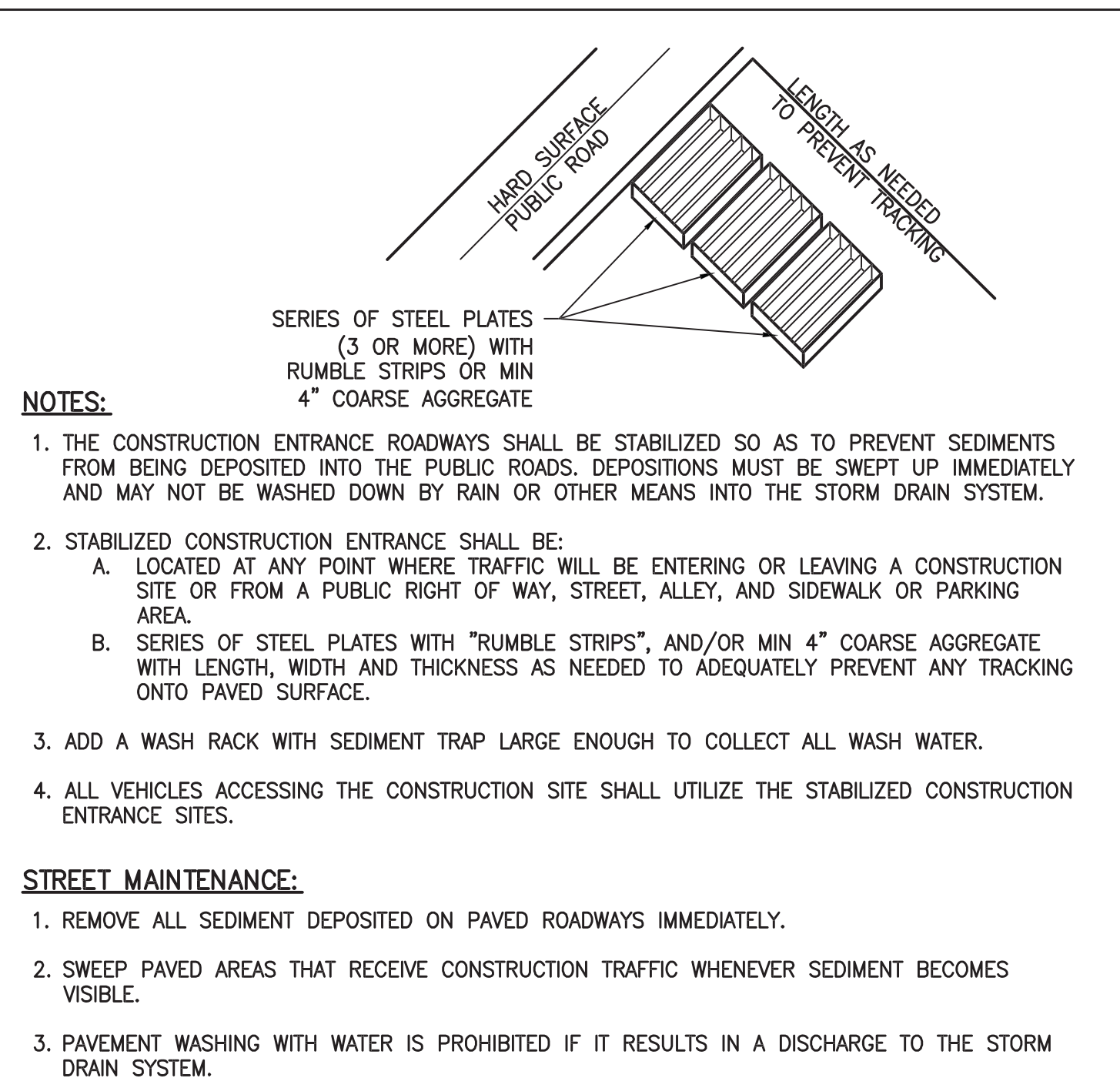




- NOTES:**
- PAVEMENT SECTIONS ARE BASED ON RECOMMENDATIONS FROM THE PROJECT GEOTECHNICAL REPORT.
  - REFER TO LANDSCAPE PLANS FOR CONCRETE COLOR, PATTERN, TEXTURE, AND FINISH.
  - SEE PLAN FOR LOCATION OF CONTROL JOINTS.

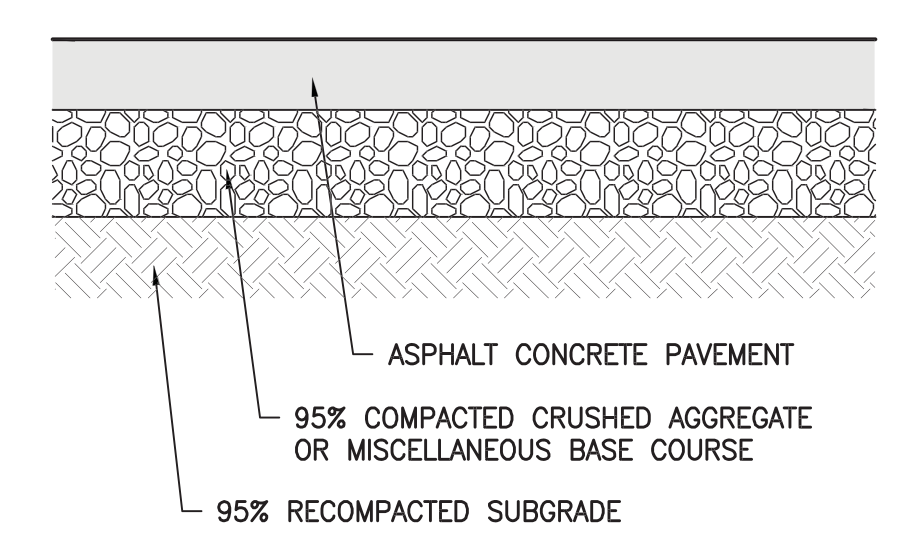


- NOTES:**
- SEE PROJECT PLANS FOR INVERT ELEVATION.
  - PIPE AND FITTINGS, EXCEPT AS OTHERWISE SHOWN ON HEREON, SHALL BE OF THE SAME MATERIAL AS THE SEWER, UNLESS APPROVED ADAPTERS ARE UTILIZED AND MAY BE ANY OF THE FOLLOWING:
    - A. VC PIPE
    - B. PE PIPE
    - C. ABS SOLID PIPE
    - D. ABS COMPOSITE PIPE
    - E. PVC PLASTIC PIPE
  - PIPES AND FITTINGS SHALL BE PROPERLY ALIGNED AND MAINTAINED WHILE CONCRETE IS BEING PLACED AND ALLOWED TO HARDEN. JOINTS FOR PIPES AND FITTINGS SHALL BE MADE PRIOR TO PLACING CONCRETE. CONCRETE FOR BEDDING, ENCASEMENT, AND WALL SUPPORT FOR PIPES AND FITTINGS SHALL BE PLACED UNIFORMLY AROUND THE PIPE AND FITTINGS AS SHOWN HEREON TO MAINTAIN PROPER ALIGNMENT.
  - THE ACCESS FRAME, COVER AND CAP SHALL BE CAST IRON. THE FINGER HOLES MAY BE DRILLED OUT PRIOR TO CASTING; THEY SHALL NOT BE PUNCHED OUT.
  - THE CONTRACTOR, AT HIS OPTION, MAY PLACE EITHER CIRCULAR OR SQUARE CONCRETE PIPE WALL SUPPORTS AS SHOWN HEREON.



- NOTES:**
- THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADS. DEPOSITIONS MUST BE SWEEP UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
  - STABILIZED CONSTRUCTION ENTRANCE SHALL BE:
    - A. LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.
    - B. SERIES OF STEEL PLATES WITH "RUMBLE STRIPS", AND/OR MIN 4" COARSE AGGREGATE WITH LENGTH, WIDTH AND THICKNESS AS NEEDED TO ADEQUATELY PREVENT ANY TRACKING ONTO PAVED SURFACE.
  - ADD A WASH RACK WITH SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER.
  - ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.
- STREET MAINTENANCE:**
- REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
  - SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
  - PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

**10 REINFORCED CONCRETE PAVEMENT** N.T.S.

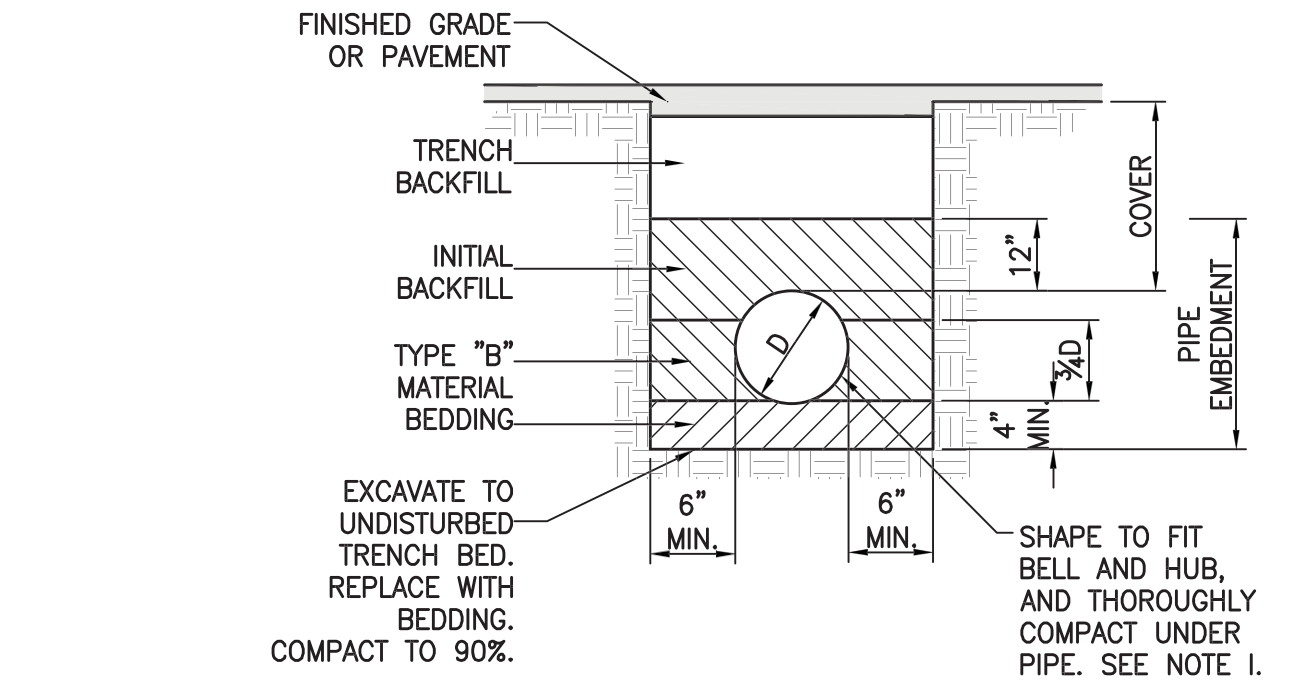


A.C. PAVEMENT TYPE	ASPHALT CONCRETE (INCHES)	BASE COURSE (INCHES)	RECOMPACTED SUBGRADE (INCHES)
VEHICULAR PARKING	3"	4"	18"
HEAVY TRUCK TRAFFIC	4"	4"	18"

- NOTE:**
- PAVEMENT SECTIONS ARE BASED ON RECOMMENDATIONS FROM THE PROJECT GEOTECHNICAL REPORT.

**9 ASPHALT PAVEMENT SECTION** N.T.S.

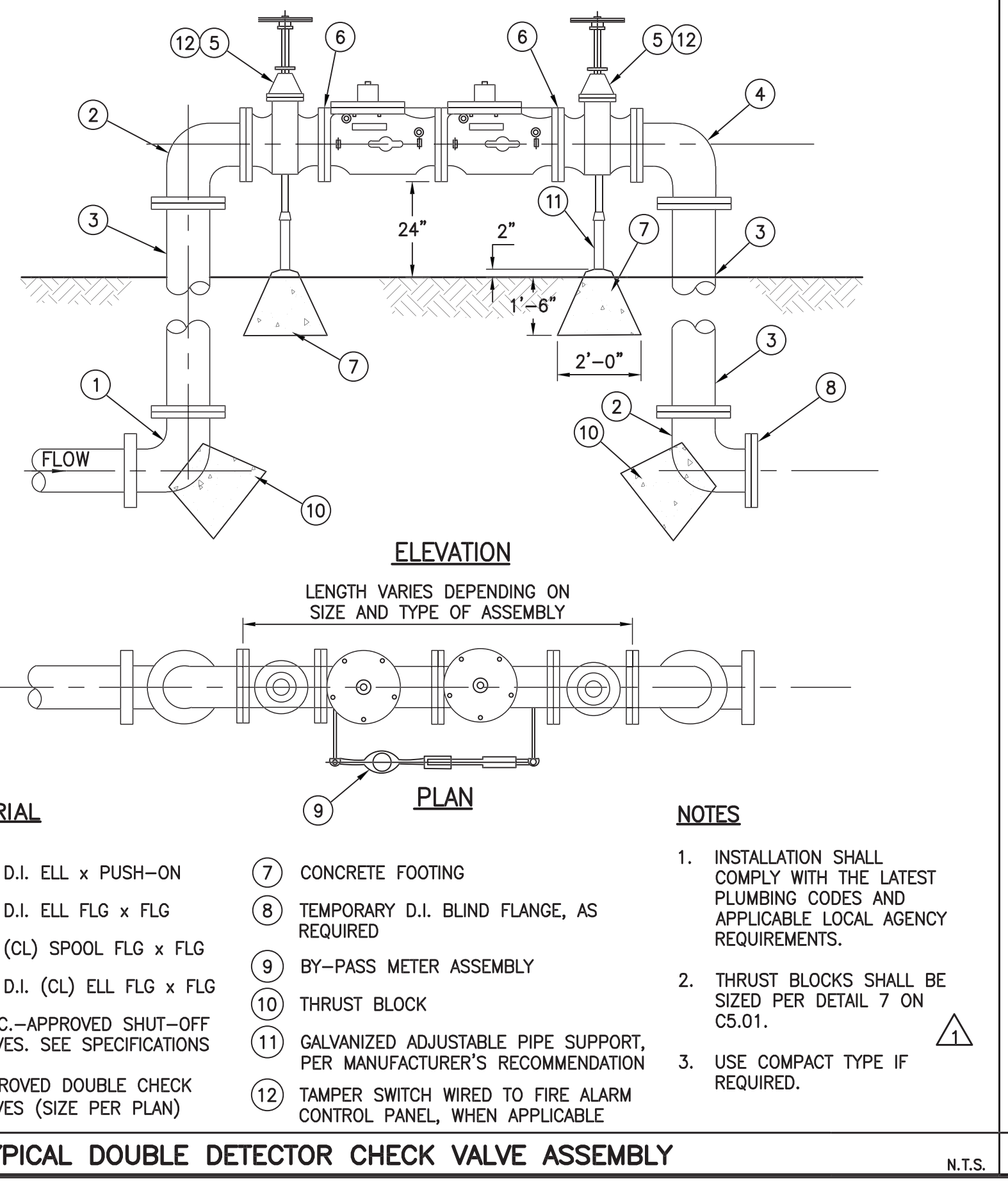
**6 STANDARD CLEANOUT** N.T.S.



- PIPE FOR GRAVITY FLOW SAN. SEWERS AND DRAINAGE P.V.C. CONFORMING TO A.S.T.M. D-3034 MAXIMUM SDR 35, GASKETED JOINTS FOR 4" TO 15" DIA PIPE AND ASTM F-679 FOR 18" DIA AND LARGER.
- BEDDING CLEAN COARSE SAND.
- INITIAL BACKFILL NATIVE MATERIAL - MAXIMUM SIZE NOT TO EXCEED 1 1/2".
- TRENCH BACKFILL: NATIVE MATERIAL - 90% COMPACTION MIN. (95% COMPACTION IN UPPER 3.0' OF PAVED AREAS). UP TO CLASS IV SOILS, TYPE M.L.C.L. FINE GRAINED, LL<50, MEDIUM TO NO PLASTICITY. NOTE: IF CLASS IV SOIL, TYPE MH OR ALL CLASS V SOILS THEN USE CLEAN COURSE SAND.
- CLEAN SHALL CONFORM TO THE REQUIREMENTS OF SAND FOR PORTLAND CEMENT CONCRETE AS SPECIFIED IN SECTION 200-1.5.5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
- TYPE "B" MATERIAL SHALL BE ONE OF THE FOLLOWING:
- NATIVE FREE DRAINING MATERIAL OR CRUSHED ROCK CONFORMING TO SUBSECTION 200-1.2 OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" WITH 1/2" MAXIMUM ROCK GRADATION.
  - CLEAN COARSE SAND.
- NOTES:**
- EXCAVATE FOR BELLS OR HUBS SO FULL LOAD IS CARRIED BY PIPE BARRELS.
  - TYPE "B" MATERIAL SHALL BE PLACED IN A MANNER SUCH AS SLICING SHOVEL-SPADING, OR SHOVEL RODDING TO INSURE COMPLETE FILLING OF THE "HAUNCH AREAS" BELOW THE PIPE. (JETTING OF TYPE "B" MATERIAL IS NOT AUTHORIZED UNLESS PREVIOUSLY APPROVED).
  - TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 306-1.3 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION. WATER DENSIFIED BACKFILL SHALL NOT BE USED.

**8 FLEXIBLE PIPE BEDDING DETAIL (FOR SDR-35 PIPE ONLY)** N.T.S.

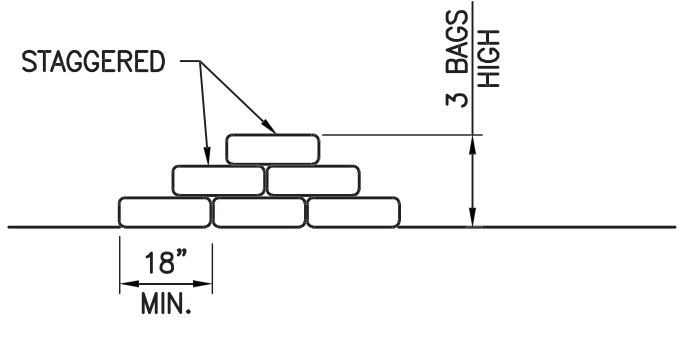
**5 NOT USED** N.T.S.



- MATERIAL**
- 90° D.I. ELL x PUSH-ON
  - 90° D.I. ELL FLG x FLG
  - D.I. (CL) SPOOL FLG x FLG
  - 90° D.I. (CL) ELL FLG x FLG
  - U.S.C.-APPROVED SHUT-OFF VALVES. SEE SPECIFICATIONS
  - APPROVED DOUBLE CHECK VALVES (SIZE PER PLAN)
  - CONCRETE FOOTING
  - TEMPORARY D.I. BLIND FLANGE, AS REQUIRED
  - BY-PASS METER ASSEMBLY
  - THRUST BLOCK
  - GALVANIZED ADJUSTABLE PIPE SUPPORT, PER MANUFACTURER'S RECOMMENDATION
  - TAMPER SWITCH WIRED TO FIRE ALARM CONTROL PANEL, WHEN APPLICABLE
- NOTES:**
- INSTALLATION SHALL COMPLY WITH THE LATEST PLUMBING CODES AND APPLICABLE LOCAL AGENCY REQUIREMENTS.
  - THRUST BLOCKS SHALL BE SIZED PER DETAIL 7 ON C5.01.
  - USE COMPACT TYPE IF REQUIRED.

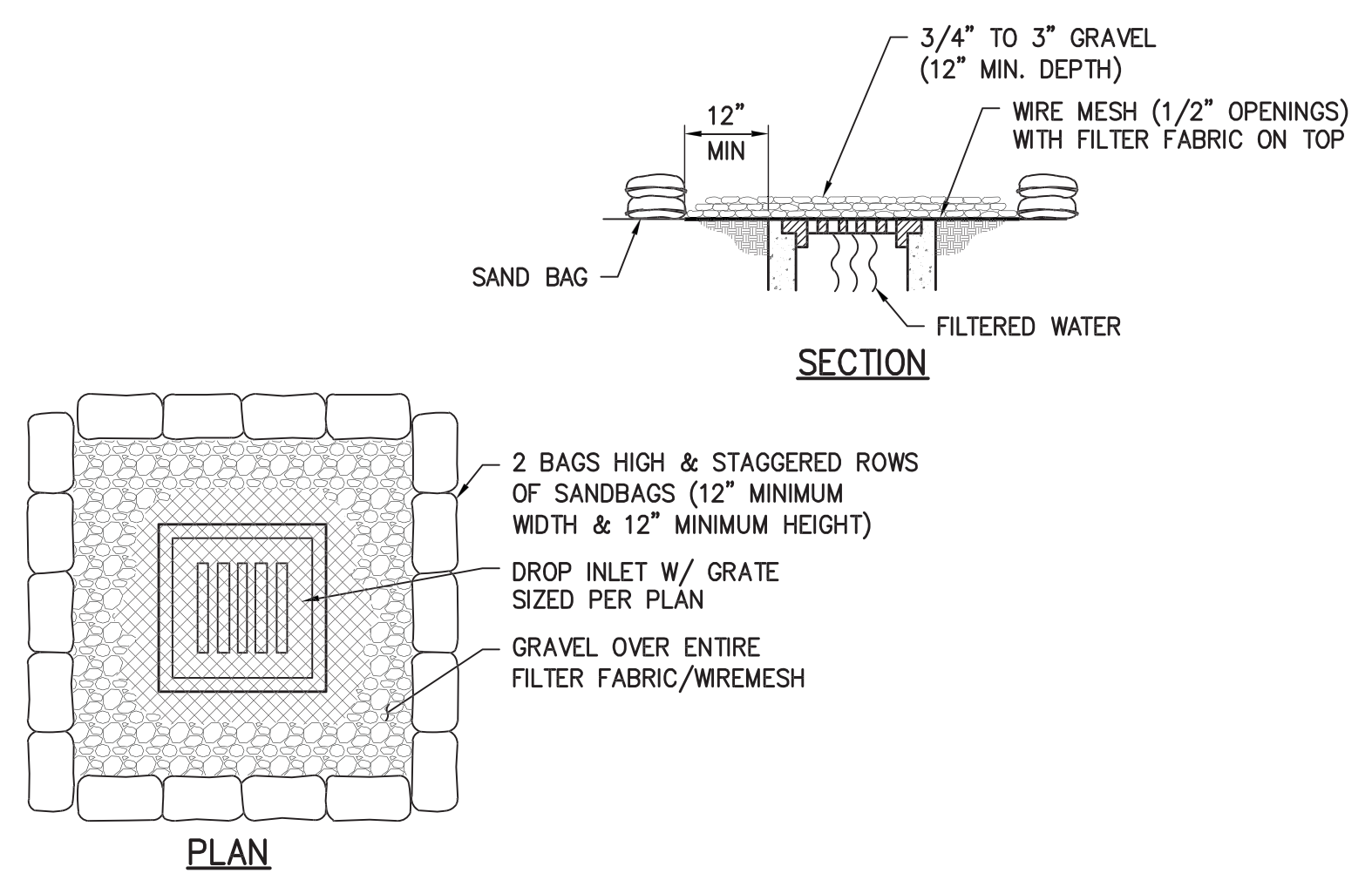
**7 NOT USED** N.T.S.

**3 STABILIZED CONSTRUCTION ENTRANCE** N.T.S.



- NOTES:**
- SANDBAG SHALL BE FILLED WITH NON-COHESIVE, CLASS 1 OR CLASS 2, PERMEABLE MATERIAL FREE FROM CLAY AND DELETERIOUS MATERIAL.

**2 SANDBAG BARRIER** N.T.S.



- NOTES:**
- PLACE WIRE MESH OVER AND 1' (MINIMUM) BEYOND THE INLET STRUCTURE. (MESH OPENINGS NOT TO EXCEED 1/2" x 1/2" WIRE)
  - PLACE FILTER FABRIC OVER WIRE MESH.
  - PLACE 3/4" TO 3" GRAVEL OVER THE FILTER FABRIC/WIRE MESH (12" MINIMUM DEPTH OVER THE ENTIRE INLET OPENING).
  - SAND BAG MATERIAL: POLYPROPYLENE, POLYETHYLENE OR POLYIMIDE WOVEN FABRIC, MINIMUM UNIT WEIGHT 4 OUNCES PER SQUARE YARD, MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70%.
  - SAND BAG SHALL BE FILLED WITH NON-COHESIVE, CLASS 1 OR CLASS 2 PERMEABLE MATERIAL FREE FROM CLAY AND DELETERIOUS MATERIAL.
  - PLACE SEVERAL LAYERS OF SAND BAGS (12" MINIMUM HIGH) OVERLAPPING THE BAGS AND PACKING THEM TIGHTLY TOGETHER.
  - LEAVE GAP OF ONE BAG ON THE TOP ROW TO SERVE AS A SPILLWAY.

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310.828.6131 info@kearch.com  
310.828.0719 fax www.kearch.com

ARCHITECT'S PROJECT NO.  
**1001**

ARCHITECT

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REGISTERED PROFESSIONAL ENGINEER  
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DATE: \_\_\_\_\_ 20\_\_

APPROVED BY: \_\_\_\_\_  
Merrim Muller  
Architecture Services Manager

CITY OF SANTA MONICA  
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY: DATE: \_\_\_\_\_ 20\_\_

REVIEWED BY: DATE: \_\_\_\_\_ 20\_\_

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07.24.12			BULLETIN 2
REVISIONS			

ISSUE  
**RAINWATER HARVESTING**

DATE: 07.24.12

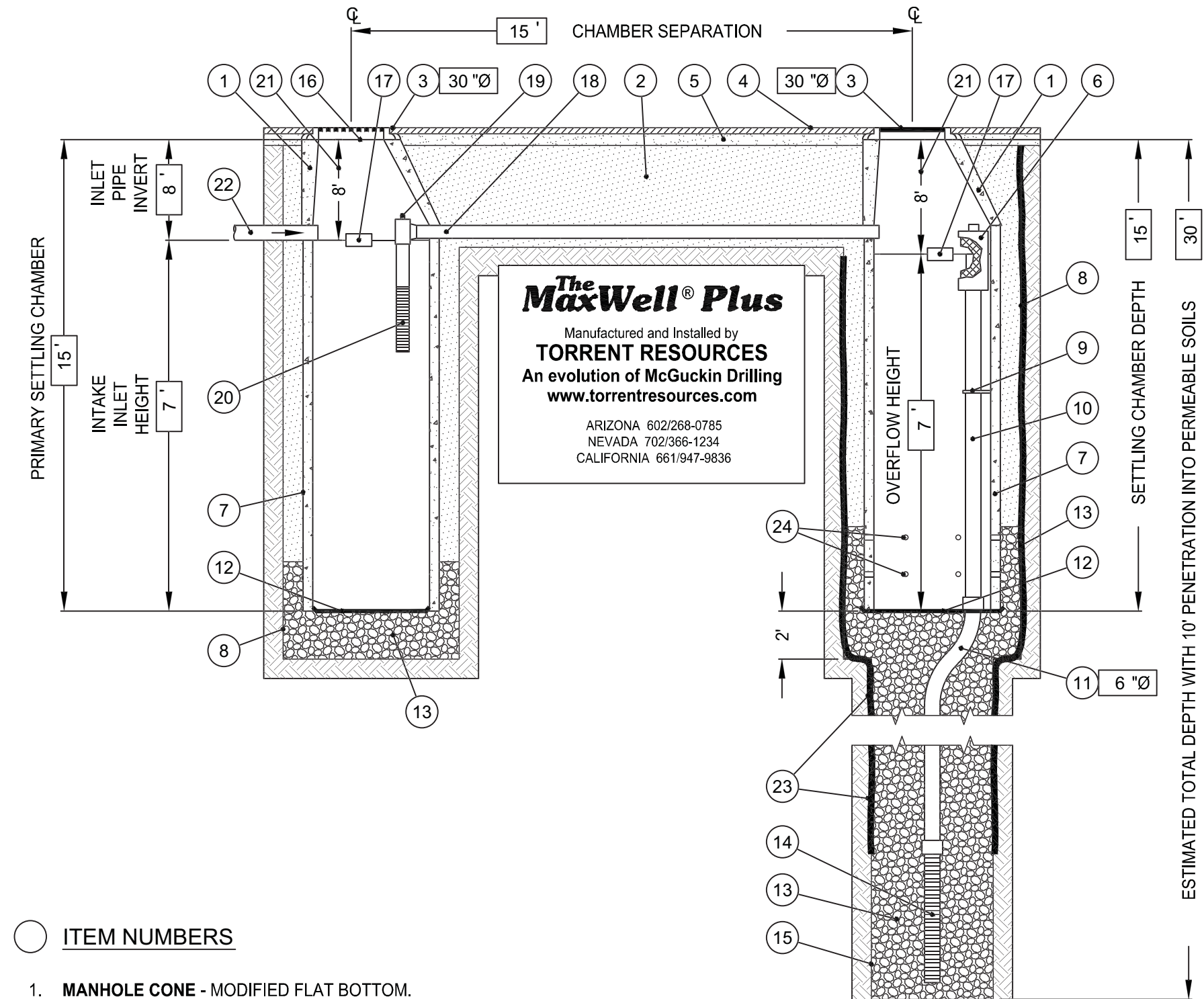
DRAWING NO. **6693**

SHEET TITLE  
**Details**

SHEET NO.  
**C5.00**



Modified Maxwell Plus Drainage System Detail And Specifications



**MaxWell Plus**  
Manufactured and installed by  
**TORRENT RESOURCES**  
An evolution of McGuckin Drilling  
www.torrentresources.com  
ARIZONA 602.286.0795  
NEVADA 702.986.1524  
CALIFORNIA 661.947.8636

THE GEOTECHNICAL ENGINEER HAS REVIEWED AND APPROVED THE URBAN RUN-OFF MITIGATION SYSTEM, INCLUDING CONFIRMING ADEQUATE PERCOLATION.

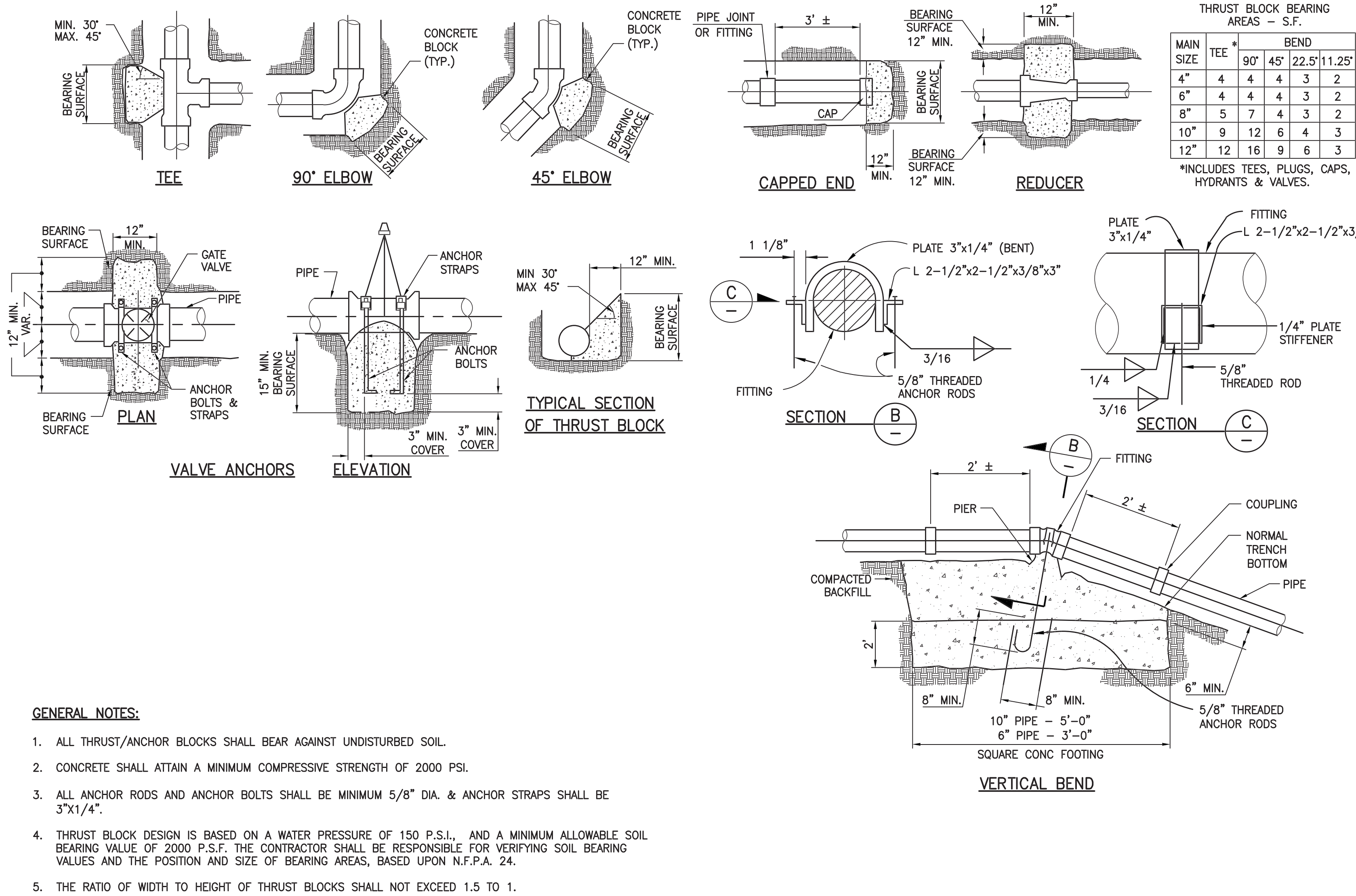
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ITEM NUMBERS

1. MANHOLE CONE - MODIFIED FLAT BOTTOM.
2. STABILIZED BACKFILL - TWO-SACK SLURRY MIX.
3. BOLTED RING & GRATE/COVER - DIAMETER AS SHOWN. CLEAN CAST IRON WITH WORKING SYMBOLOGY ONLY IN RAISED LETTERS. BOLTED IN 2 LOCATIONS AND SECURED TO CONE WITH MORTAR. RIM ELEVATION  $\pm 0.02'$  OF PLANS.
4. GRADED BASIN OR PAVING (BY OTHERS).
5. COMPACTED BASE MATERIAL (BY OTHERS).
6. PUREFLO® DEBRIS SHIELD - ROLLED 16 GA. STEEL X 24" LENGTH WITH VENTED ANTI-SIPHON AND INTERNAL .265" MAX. SWO FLATTENED EXPANDED STEEL SCREEN X 12" LENGTH. FUSION BONDED EPOXY COATED.
7. PRE-CAST LINER - 4000 PSI CONCRETE 48" ID. X 54" OD. CENTER IN HOLE AND ALIGN SECTIONS TO MAXIMIZE BEARING SURFACE.
8. MIN. 6" Ø DRILLED SHAFT.
9. SUPPORT BRACKET - FORMED 12 GA. STEEL. FUSION BONDED EPOXY COATED.
10. OVERFLOW PIPE - SCH. 40 PVC MATED TO DRAINAGE PIPE AT BASE SEAL.
11. DRAINAGE PIPE - ADS HIGHWAY GRADE WITH TRI-A COUPLER. SUSPEND PIPE DURING BACKFILL OPERATIONS TO PREVENT BUCKLING OR BREAKAGE. DIAMETER AS NOTED.
12. BASE SEAL - GEOTEXTILE, POLY LINER OR CONCRETE SLURRY.
13. ROCK - CLEAN AND WASHED 3/8" TO 1-1/2" AGGREGATE.
14. FLOFAST® DRAINAGE SCREEN - SCH. 40 PVC 0.120" SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. DIAMETER VARIES 96" OVERALL LENGTH WITH TRI-B COUPLER.
15. MIN. 4" Ø SHAFT - DRILLED TO MAINTAIN PERMEABILITY OF DRAINAGE SOILS.
16. FABRIC SEAL - U.V. RESISTANT GEOTEXTILE - TO BE REMOVED BY CUSTOMER AT PROJECT COMPLETION.
17. ABSORBENT - HYDROPHOBIC PETROCHEMICAL SPONGE. MIN. 128 OZ. CAPACITY. TYPICAL TWO (2) PER CHAMBER.
18. CONNECTOR PIPE - 4" Ø SCH. 40 PVC.
19. VENTED ANTI-SIPHON INTAKE WITH FLOW REGULATOR.
20. INTAKE SCREEN - 4" Ø SCH. 40 PVC 0.120" MODIFIED SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. 48" OVERALL LENGTH WITH TRI-C END CAP.
21. FREEBOARD DEPTH VARIES WITH INLET PIPE ELEVATION. INCREASE PRIMARY/SECONDARY SETTLING CHAMBER DEPTHS AS NEEDED TO MAINTAIN ALL INLET PIPE ELEVATIONS ABOVE CONNECTOR PIPE OVERFLOW.
22. OPTIONAL INLET PIPE (BY OTHERS).
23. NON-WOVEN GEOTEXTILE SLEEVE, MIRAFI 140 NL. MIN. 6 FT Ø. HELD APPROX. 10 FEET OFF THE BOTTOM OF EXCAVATION.
24. EIGHT (8) 1.25" DIAMETER HOLES PER FOOT WHERE NOTED.

AZ Lic. R0007866 A. REGISTERED P.E. ADAM BOK  
CA Lic. 52898. C.E. HUI  
NY Lic. 503390 A - 1st Lic. 6056 GPK  
U.S. Patent No. 6,852,337. \*Trademark U.S. Pat. 6,886,204  
NOTE: DRAWING NOT TO SCALE

8 MODIFIED MAXWELL PLUS DRAINAGE SYSTEM DETAIL AND SPECIFICATIONS

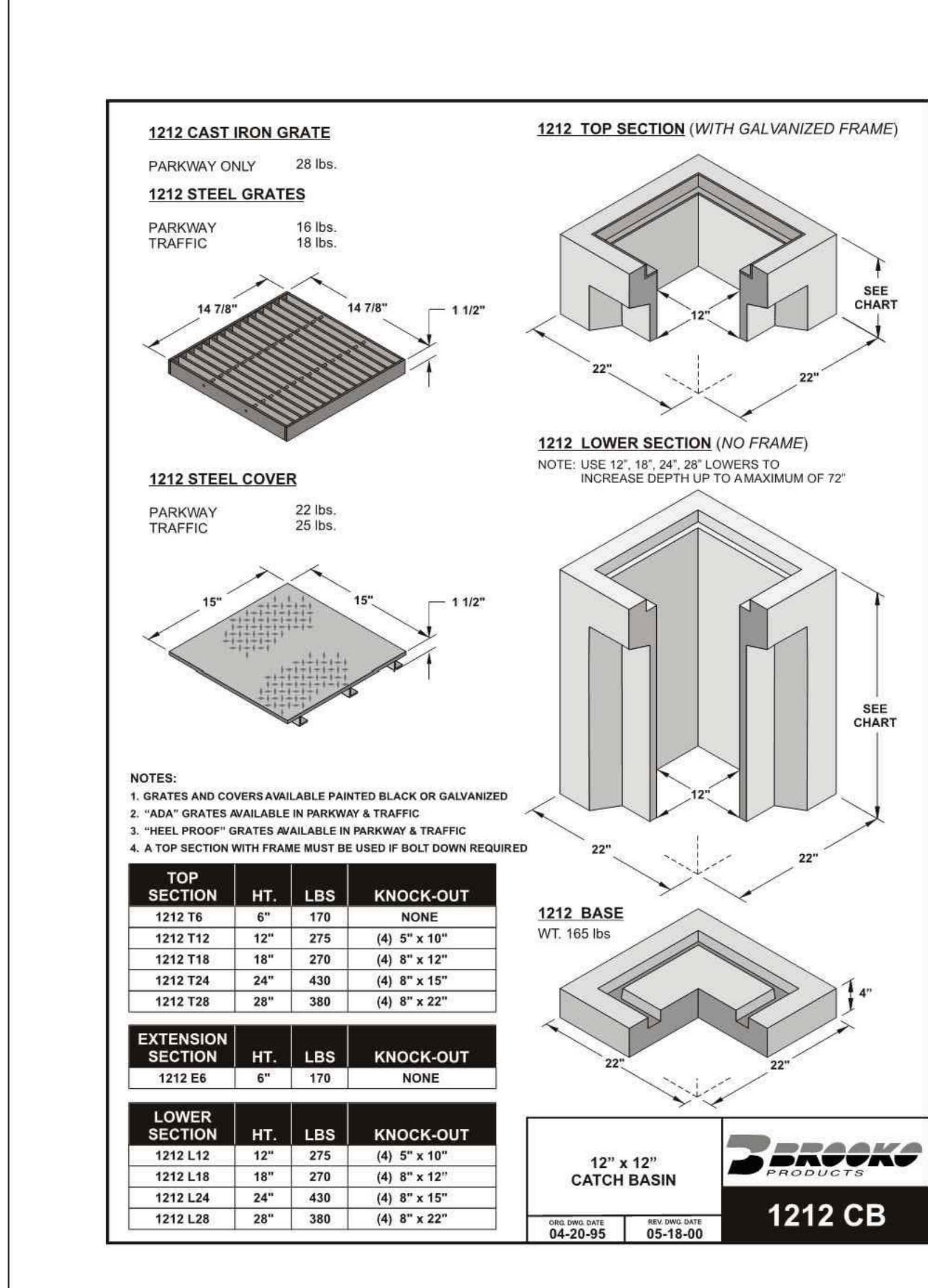


GENERAL NOTES:

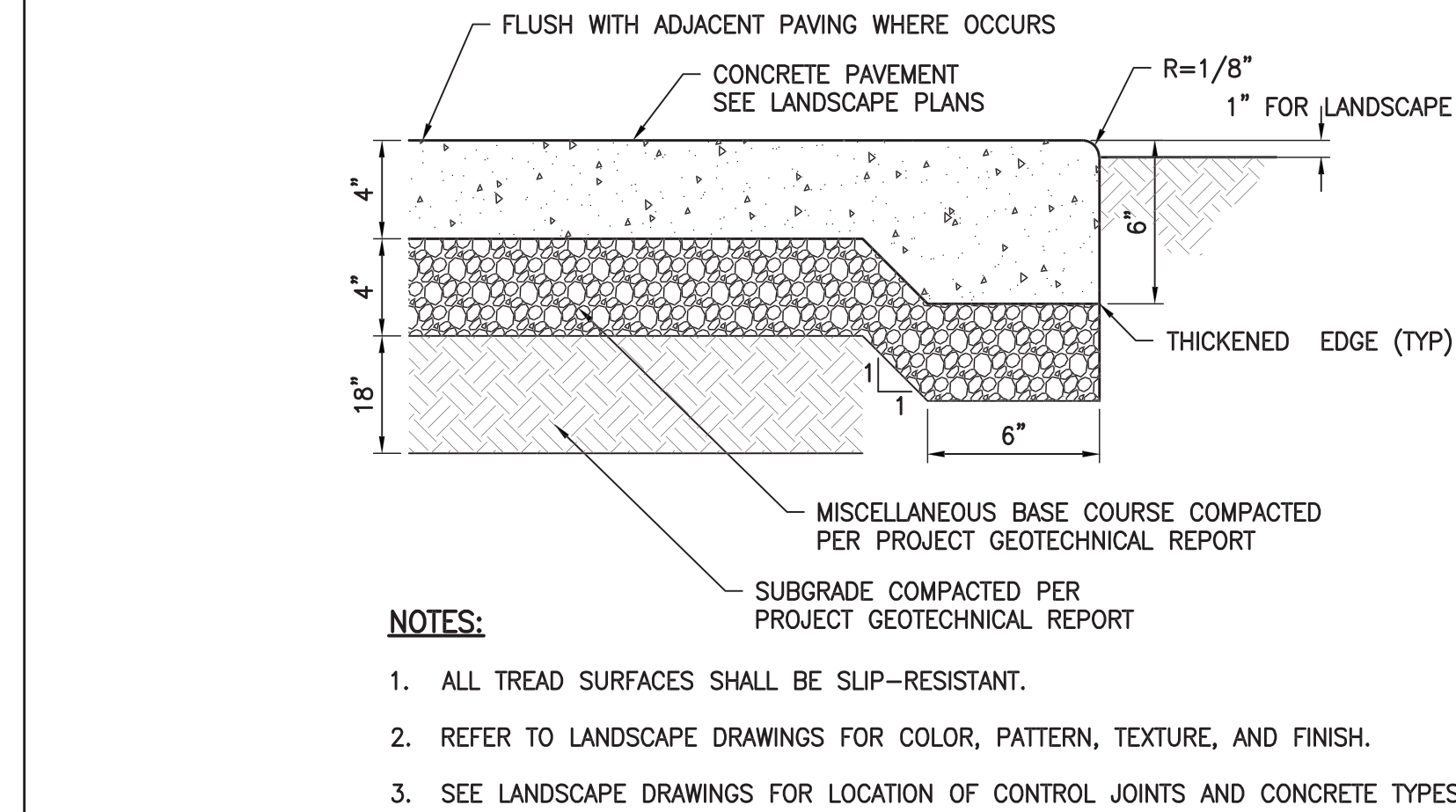
1. ALL THRUST/ANCHOR BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.
2. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
3. ALL ANCHOR RODS AND ANCHOR BOLTS SHALL BE MINIMUM 5/8" DIA. & ANCHOR STRAPS SHALL BE 3"x1/4".
4. THRUST BLOCK DESIGN IS BASED ON A WATER PRESSURE OF 150 P.S.I., AND A MINIMUM ALLOWABLE SOIL BEARING VALUE OF 2000 P.S.F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SOIL BEARING VALUES AND THE POSITION AND SIZE OF BEARING AREAS, BASED UPON N.F.P.A. 24.
5. THE RATIO OF WIDTH TO HEIGHT OF THRUST BLOCKS SHALL NOT EXCEED 1.5 TO 1.

7 THRUST AND ANCHOR BLOCK DETAILS

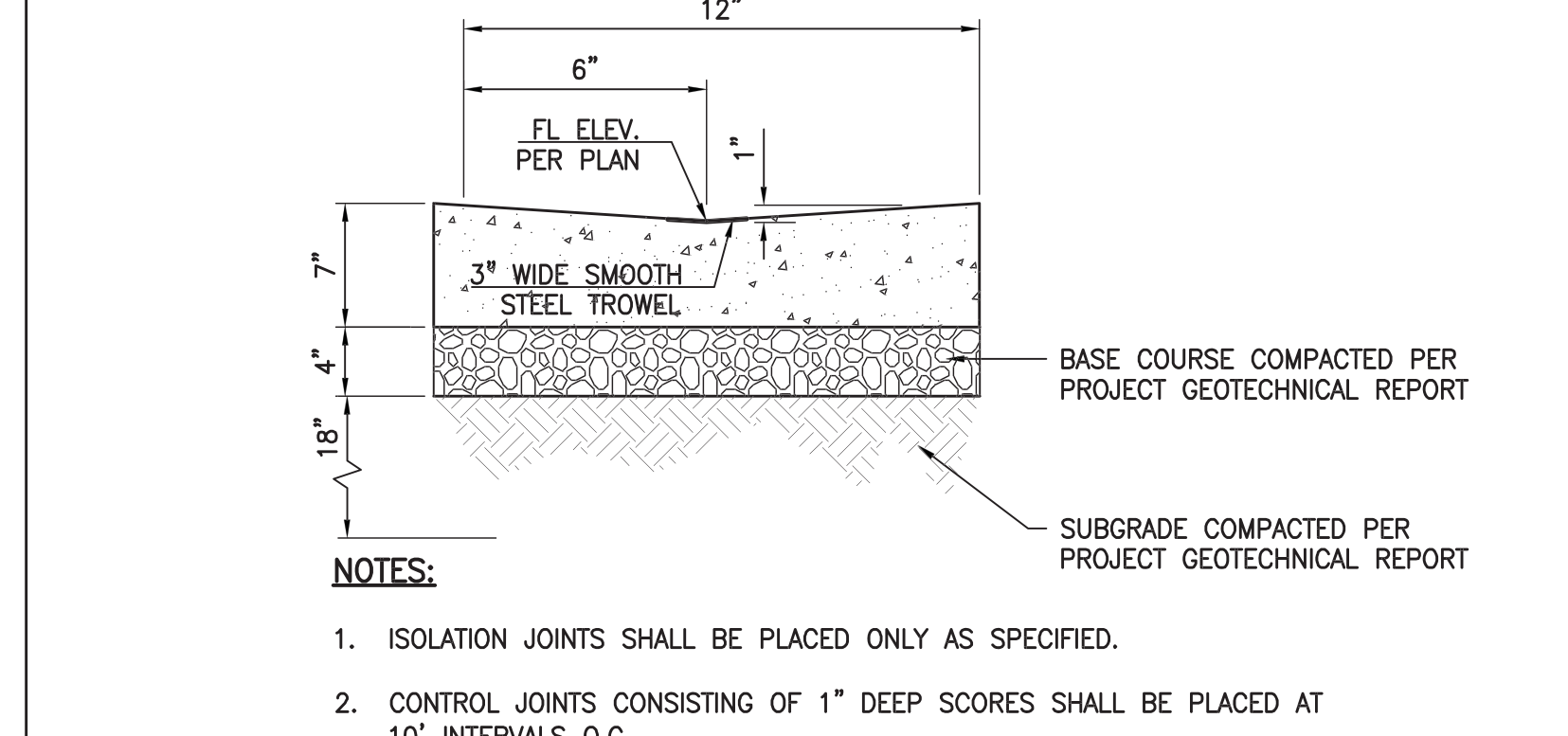
6 NOT USED



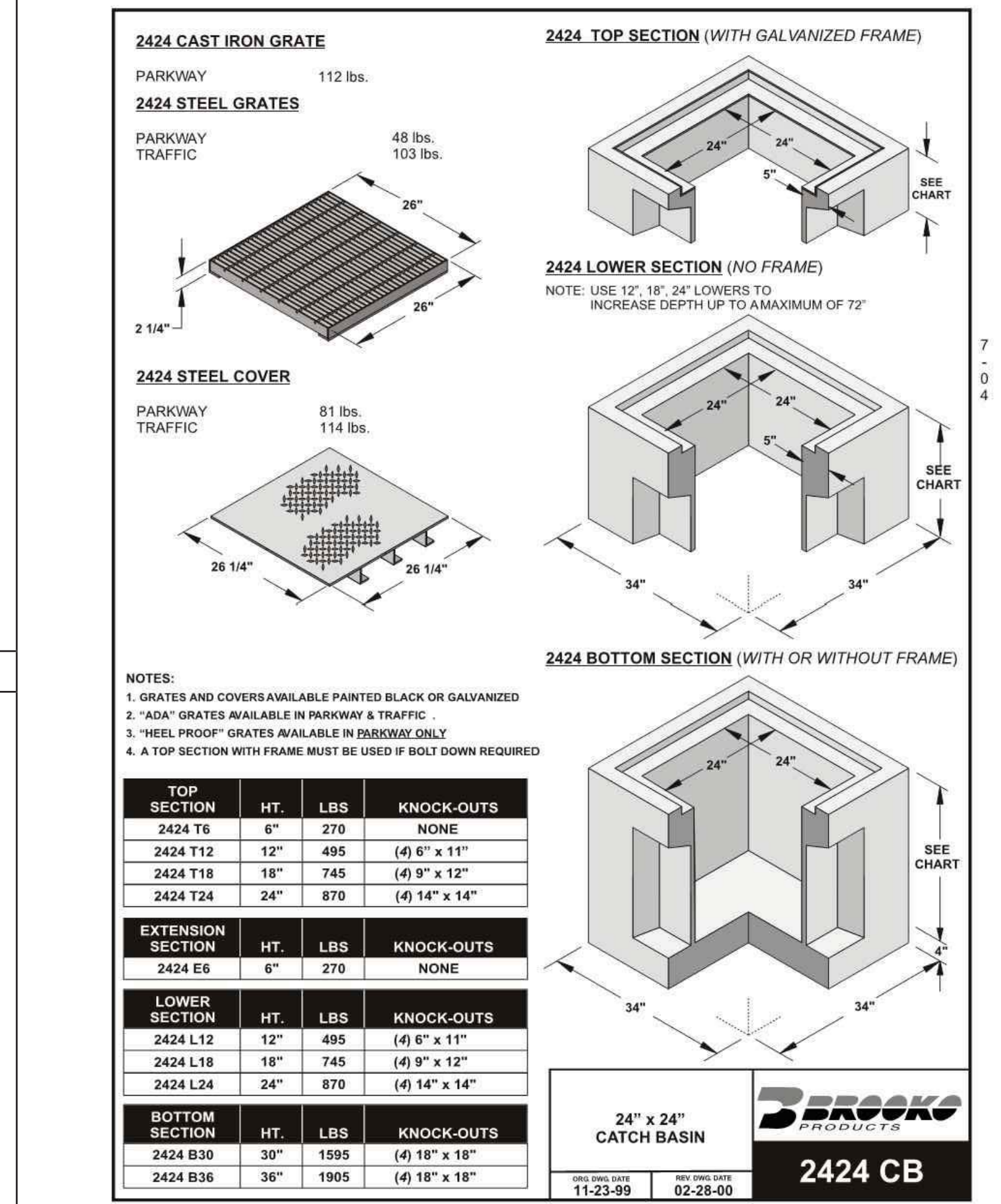
5 12" X 12" CATCH BASIN



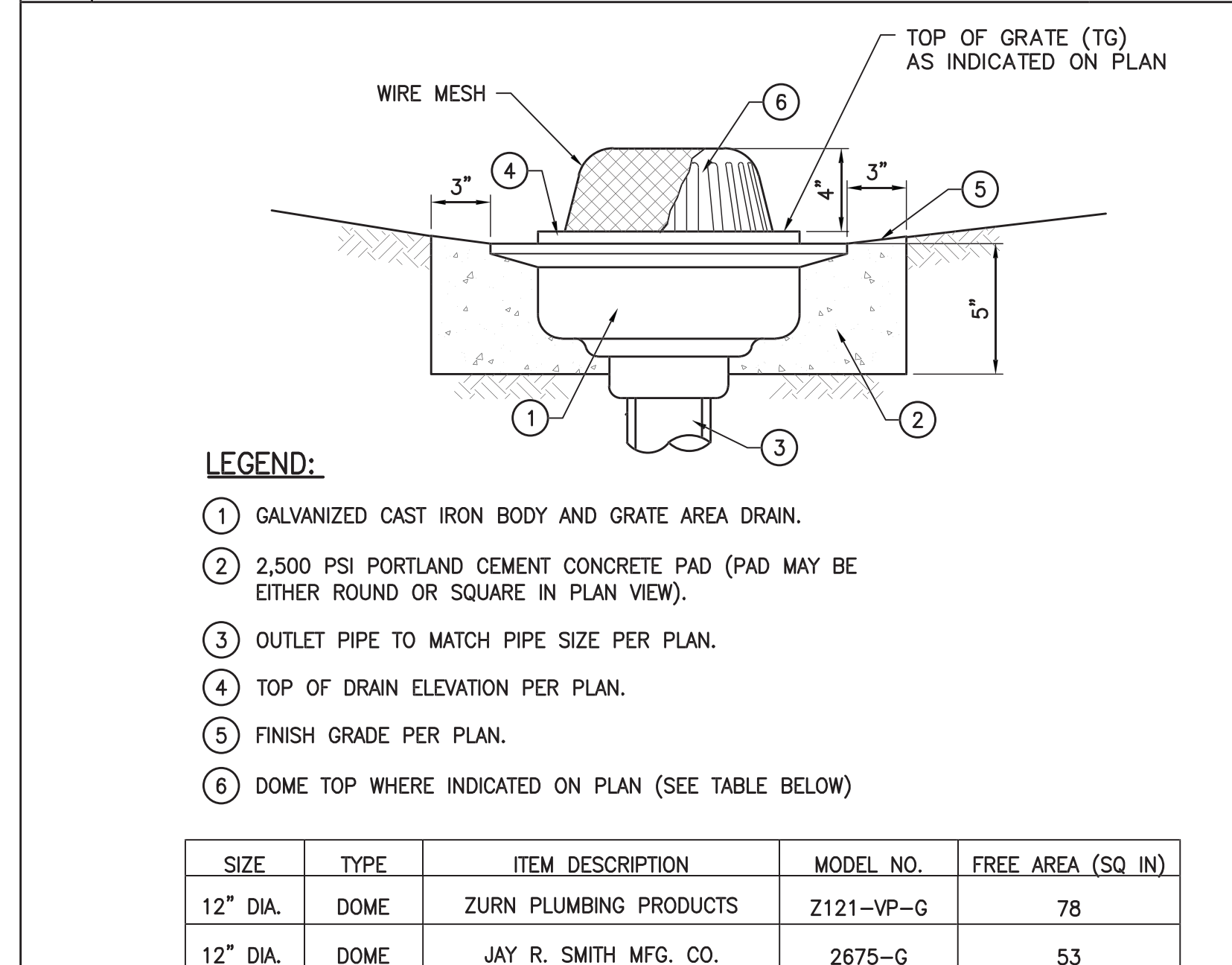
4 CONCRETE WALK SECTION



3 CONCRETE VALLEY GUTTER



2 24" X 24" CATCH BASIN



1 PLANTER DRAIN DETAIL

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ARCHITECT

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DATE: \_\_\_\_\_ 20\_\_

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Architecture Services Manager  
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REVIEWED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ 20\_\_

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NO.	DATE	DESCRIPTION
	07/24/12	BULLETIN 2
	06/20/12	PLAN CHECK 2
	05/07/12	PLAN CHECK 2
	03/06/12	ADDENDUM 3
	02/21/12	ADDENDUM 2
		REVISIONS

PLAN CHECK RESUBMITTAL

DATE: 07.24.12  
DRAWING NO. **6693**

SHEET TITLE  
**Details**

PLUMBING LEGEND

Table with 4 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists plumbing symbols and their corresponding descriptions, such as BALL VALVE, BUTTERFLY VALVE, GATE VALVE, etc.

ABBREVIATIONS

Table of abbreviations and their meanings, including SQUARE FEET, POINT OF CONNECTION, AND, AT, POUNDS, etc.

ABBREVIATIONS

Table of abbreviations and their meanings, including INTERNATIONAL ASSOCIATION OF PLUMBING AND PLUMBING OFFICIALS, INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS, etc.

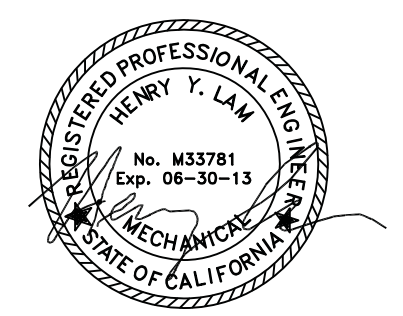
GENERAL NOTES

- List of general notes regarding work specifications, record documents, coordination with local gas company, and installation requirements.

PLUMBING DRAWING LIST

Table listing drawing sheets: P.01 PLUMBING LEAD SHEET, P.02 PLUMBING SCHEDULES, P2.0 PLUMBING PLAN - ENLARGED, P2.1 PLUMBING PLANS, P2.2 PLUMBING ROOF PLAN.

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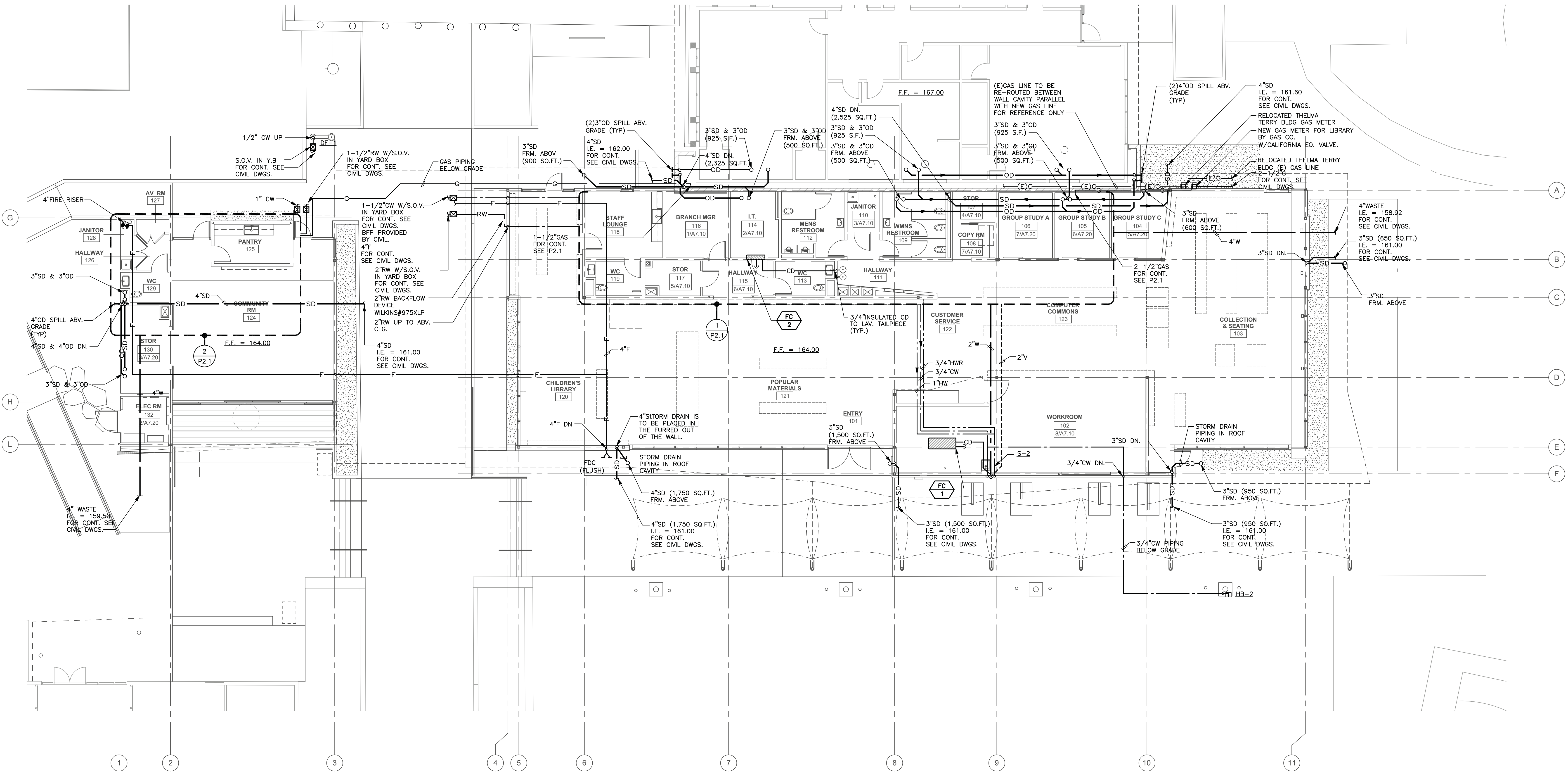
Approval and review stamps: SUBMITTED BY, DATE, APPROVED BY, REVIEWED BY, etc.

Table for REVISIONS with columns for NO., DATE, BY, and DESCRIPTION.



### GENERAL NOTES

A. THE DESIGN OF THE UNDERFLOOR AIR DISTRIBUTION SYSTEM IS BASED ON A SEALED, AIRTIGHT UNDERFLOOR PLENUM. ALL CONSTRUCTION JOINTS AT PLENUM BOUNDARIES AND PLENUM DIVIDING PARTITIONS SHALL BE SEALED AIRTIGHT. ALL PENETRATIONS FOR PIPES, CONDUIT AND OTHER SERVICES SHALL BE SEALED AIRTIGHT. PLENUMS SHALL BE TESTED FOR LEAKAGE PER THE COMMISSIONING SPECIFICATIONS. PLENUMS THAT DO NOT MEET THE LEAKAGE CRITERIA PER THE SPECIFICATIONS SHALL BE RESEALED AND RETESTED UNTIL THEY PASS. REFER TO THE ARCHITECTURAL DRAWINGS FOR CONSTRUCTION DETAILS AND ADDITIONAL INFORMATION.

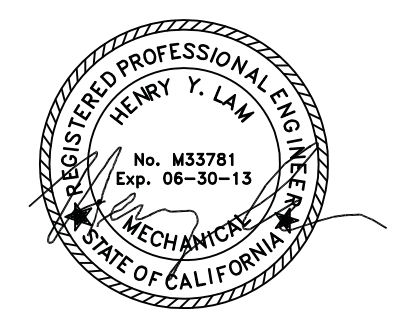


**1 PLUMBING PLAN**  
SCALE: 1/8"=1'-0"



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Mitsam Muller, Architecture Services Manager		
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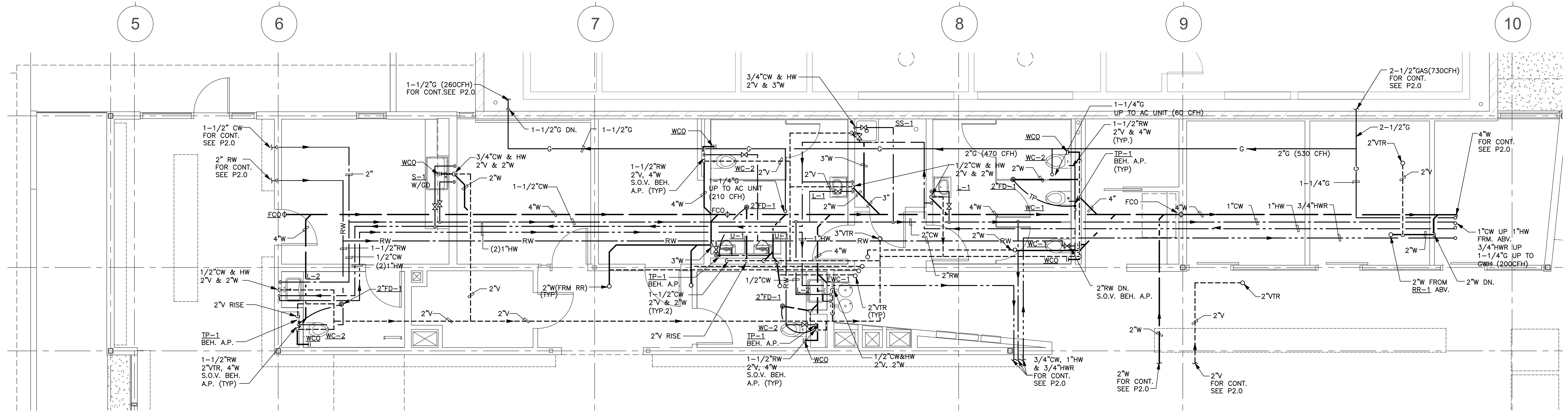
NO.	DATE	BY	DESCRIPTION
07.24.12			BULLETIN 2
REVISIONS			

ISSUE  
**RAINWATER HARVESTING**

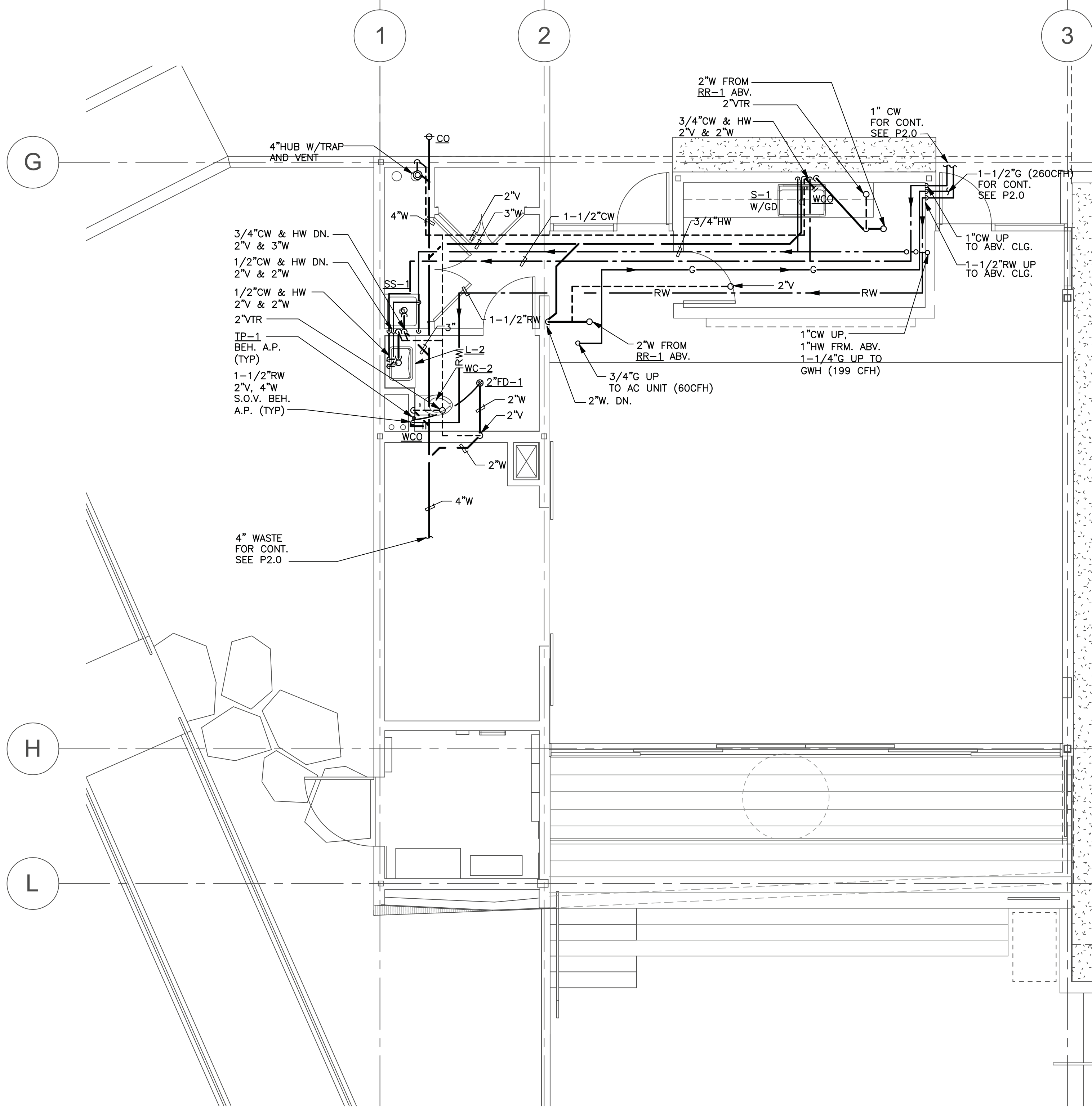
DATE: 07.24.12  
DRAWING NO. **6693**

SHEET TITLE  
**PLUMBING PLAN**

SHEET NO.  
**P2.0**



**1 PLUMBING PLAN**  
 SCALE: 1/4"=1'-0"  
 0 2 4 8



**2 PLUMBING PLAN**  
 SCALE: 1/4"=1'-0"  
 0 2 4 8

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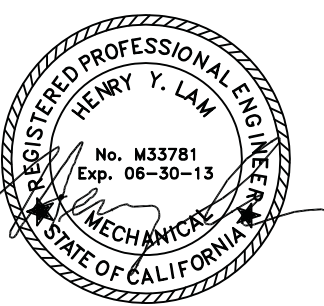
ISSUE **RAINWATER HARVESTING**

DATE: 07.24.12  
 DRAWING NO. **6693**

SHEET TITLE **ENLARGED PLUMBING PLANS**

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ISSUE  
RAINWATER HARVESTING

DATE 07.24.12

DRAWING NO. 6693

SHEET TITLE  
**Plumbing ROOF PLAN**

NOTE:  
THE STORM DRAIN  
CALCULATION IS BASED ON 3"  
RAINFALL PER C.P.C. 2010.

TABLE 11-1 C.P.C. 2010

PIPE	3" RAINFALL
3"	2,930 S.F.
4"	6,130 S.F.
6"	17,995 S.F.
8"	38,660 S.F.

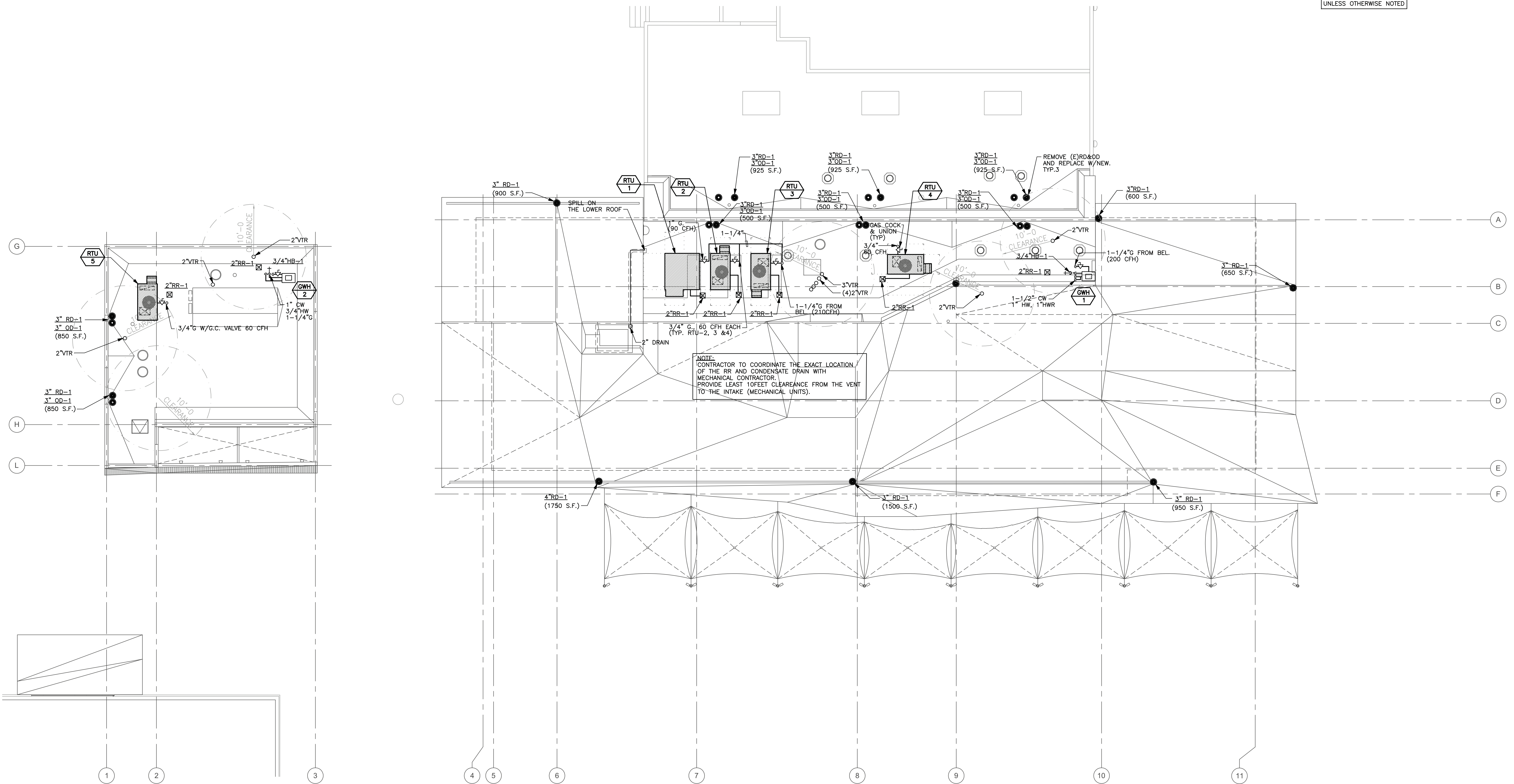
TABLE 11-2 C.P.C. 2010

PIPE	3" RAINFALL
3"	1,096 S.F.
4"	2,906 S.F.
6"	7,133 S.F.
8"	15,330 S.F.
10"	27,600 S.F.
12"	44,400 S.F.

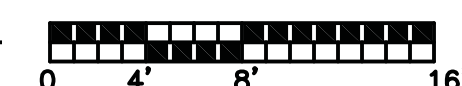
TABLE 11-2 C.P.C. 2010

PIPE	3" RAINFALL
3"	1,546 S.F.
4"	3,533 S.F.
6"	10,088 S.F.
8"	21,733 S.F.
10"	38,950 S.F.
12"	62,600 S.F.

NOTE:  
ALL PIPING SHALL SLOPE  
@ 2% PER 100 FT.  
UNLESS OTHERWISE NOTED



**1 PLUMBING ROOF PLAN**  
SCALE: 1/8"=1'-0"



ELECTRICAL NOTES

- 1. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT...

Table with columns: SIZE OF CONDUIT (INCHES), NUMBER OF CONDUITS IN RUNS, LOCATION, MAXIMUM SUPPORT SPACING (FEET)

Table with columns: SIZE OF CONDUIT (INCHES), MAXIMUM SUPPORT SPACING (FEET)

E) SPACING OF SUPPORTS FOR EXPOSED VERTICAL CONDUIT RUNS SHALL BE AS FOLLOWS.

F) ELECTRICAL ENCLOSURES SHALL BE FURRED FROM OUTSIDE WALLS OF WET AREAS.

10. EXACT LOCATION OF EQUIPMENT AND OUTLETS SHALL BE VERIFIED IN FIELD...

11. PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITH "BUILT IN" PROTECTION...

12. SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN...

13. OUTLET BOXES SHALL BE FLUSH WITH THE FINISHED SURFACE OF WALLS AND CEILINGS OF COMBUSTIBLE MATERIALS.

14. OPENINGS IN BOXES, CONDUIT BODIES AND FITTINGS SHALL BE ADEQUATELY CLOSED.

15. SURFACE MOUNTED BOXES AND CABINETS MOUNTED IN WET AND DAMP LOCATIONS SHALL BE WEATHERPROOF AND SHALL HAVE AT LEAST 1/4" AIR SPACE BETWEEN THE BOX AND MOUNTING SURFACE.

16. ENTRANCE TO ROOMS AND OTHER GUARDED LOCATIONS THAT CONTAIN LIVE PARTS SHALL BE MARKED WITH A CONSPICUOUS WARNING SIGN FORBIDDING UNQUALIFIED PERSONS TO ENTER.

17. CUT FLOORS, CEILINGS AND WALLS AS REQUIRED FOR INSTALLATION OF ELECTRICAL WORK...

18. BEFORE ORDERING THE LIGHTING FIXTURES, VERIFY WITH THE ARCHITECT OR AT THE JOB SITE THE EXACT CEILING BEING FURNISHED...

19. INSTALL LIGHTING FIXTURES SO AS TO CLEAR PIPING, DUCTS, AIR DIFFUSERS, GRILLES, ACCESS PANELS & OTHER DEVICES.

20. USE THIN/THIN COPPER WIRES FOR ALL BRANCH CIRCUIT WIRING WITH A SEPARATE GREEN GROUNDING CONDUCTOR...

21. TELEPHONE WIRE AND CABLE INSTALLATION, SPlicing, TERMINATING, AND EQUIPMENT SHALL BE IN CONFORMITY WITH THE REQUIREMENTS AND SUBJECT TO APPROVAL OF THE DISTRICT'S COMMUNICATION PERSONAL.

22. THE NON-CURRENT CARRYING METALLIC PARTS OF ALL ELECTRICAL EQUIPMENT AND ENCLOSURES, INCLUDING CONDUITS, SUPPORTS, CABINETS, MOTOR FRAMES, SWITCHES, ENCLOSURES, CONTROL PANELS AND ASSOCIATED EQUIPMENT, WHICH ARE INSTALLED OR CONNECTED UNDER THIS CONTRACT...

23. THE CONTRACTOR SHALL KEEP ALL PARTS OF THE BUILDING AND SITE FREE FROM ANY ACCUMULATIONS OF RUBBISH OR WASTE MATERIALS CAUSING BY HIS WORKMEN...

24. THOROUGHLY CLEAN ALL PARTS OF THE EQUIPMENT AND MATERIAL INSTALLED UNDER THIS SECTION...

25. WIRING AND CONNECTIONS SHALL BE TESTED FOR CONTINUITY, GROUNDS, SHORT CIRCUITS, AND OTHER DEFECTS BEFORE ANY EQUIPMENT OR FIXTURES ARE CONNECTED...

26. INSULATION SHALL BE TESTED BEFORE AND AFTER INSTALLATION, AND BEFORE ENERGIZING.

27. THE ENTIRE SYSTEM SHALL BE PLACED IN PROPER OPERATING CONDITION.

28. NO PIPING DUCT OR EQUIPMENT FOREIGN TO ELECTRICAL SHALL BE PERMITTED TO BE LOCATED WITH THE DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT.

29. ALL NEW ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY OF LOS ANGELES RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT.

30. ALL DEVICES AND WIRING IN THIS SYSTEM ARE REQUIRED TO BE SUPERVISED FOR FAULT AND FAILURE.

31. ANY PENETRATION TO FIRE RATED ASSEMBLY BY WIRING FOR THIS SYSTEM, IT IS TO BE FIRE STOPPED USING U.L. APPROVED METHOD.

32. DO NOT RUN WIRING EXPOSED SO AS TO BE DAMAGED BY OCCUPANTS.

33. WHERE PERMITTED, "OPEN WIRE" MAY BE EMPLOYED.

34. DEVICES USED IN THIS SYSTEM MAY HAVE STRICT REQUIREMENTS THAT GOVERN THEIR MOUNTING HEIGHTS AND LOCATION.

35. NOTIFICATION APPLIANCE SHALL PROVIDE MINIMUM AUDIBILITY OF 150DB ABOVE AMBIENT LEVELS.

36. FUSED DISCONNECT SWITCH, SIZE AS NOTED, SIZE FUSE PER MANUFACTURER'S RECOMMENDATIONS.

37. DISCONNECT SWITCH, SIZE AS NOTED OR IF NOT SHOWN SIZE PER CONNECTED MOTOR SIZE AND MOTOR DISCONNECT SCHEDULE.

38. ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH, TRIP SIZE AS NOTED.

39. DISCONNECT W/ MAGNETIC MOTOR STARTER (CONTROLLERS) OR CONTACTOR, SIZE PER LOAD SERVED.

40. DIV. 16 CONNECTION TO EQUIPMENT PROVIDED BY OTHERS.

41. DIV. 16 CONNECTION TO EQUIPMENT WITH INTEGRAL DISCONNECT THAT IS PROVIDED BY OTHERS.

42. EQUIPMENT FURNISHED WITHOUT SHOP APPLIED FINISH SHALL BE FIELD PAINTED.

43. CONCEALED SURFACES OF METAL RACKS, FRAMES, AND BOXES SHALL BE PAINTED BEFORE MOUNTING.

44. AFTER TESTS HAVE BEEN COMPLETED, CLEAN ALL LIGHTING FIXTURES AND EQUIPMENT WITH SOAP AND WATER.

NOTE: IF CONFLICTS OCCUR BETWEEN DRAWING SPECIFICATION AND BOOK SPECIFICATION, THE MORE STRINGENT OF THE TWO SHALL BE USED.

25. WIRING AND CONNECTIONS SHALL BE TESTED FOR CONTINUITY, GROUNDS, SHORT CIRCUITS, AND OTHER DEFECTS BEFORE ANY EQUIPMENT OR FIXTURES ARE CONNECTED...

26. INSULATION SHALL BE TESTED BEFORE AND AFTER INSTALLATION, AND BEFORE ENERGIZING.

A) RUBBER INSULATION SHALL BE TESTED FOR ACCEPTANCE BY APPLYING DIRECT CURRENT POTENTIAL NOT OVER 3 TIMES THE RATIO OF DIRECT CURRENT TO 60X OF EQUIVALENT "RMS" ALTERNATING CURRENT FACTORY TEST VOLTAGE FOR 5 MINUTES.

B) VARNISHED CAMBRIC, PAPER, AND OTHER INSULATION SHALL BE TESTED IN THE MANNER DIRECTED BY AND UP TO THE LIMITS RECOMMENDED BY THE MANUFACTURER.

C) INSULATION RESISTANCE SHALL BE TESTED BY MEGGER OF NOT LESS THAN 60 VOLTS OUTPUT FOR CIRCUITS 480 VOLTS AND LESS.

D) PHASE ROTATION AT ALL BUSES, PANELS, SWITCHBOARD ETC., SHALL BE CHECKED TO SEE IF IT CONFORMS WITH RECOGNIZED STANDARDS.

E) GROUND TESTS SHALL BE MADE WITH THE 3 ELECTRODE "AC" OR "DC" VOLTAGE DROP METHOD TO ESTABLISH INITIAL READINGS FOR CERTAIN THAT THEY MEET DESIGN AND CODE REQUIREMENTS.

F) CONTROL CIRCUITS SHALL BE CHECKED OUT FOR PROPER FUNCTIONING AND FAIL-SAFE QUALITIES.

G) RECEPTACLES SHALL BE CHECKED OUT FOR CORRECT AND CONSTANT PHASE POSITION, AND GROUNDED RECEPTACLES SHALL BE TESTED FOR LOCATION AND EFFECTIVENESS OF GROUNDED PIN.

H) LIGHTING SWITCHING SHALL BE TESTED FOR CORRECT OPERATIONS ESPECIALLY WHERE 3 AND 4 WAY OPERATION IS DESIGNATED.

I) CONTROL DEVICES SUCH AS LIMIT SWITCHES, LEVEL CONTROLS, PRESSURE CONTROLS, THERMOSTATS, SHALL BE SET FOR OPERATING CONDITIONS.

J) RUNNING LOGS OF MOTORS SHALL BE CHECKED AGAINST NAMEPLATE DATA. OVERLOADS SHALL BE REPORTED.

28. NO PIPING DUCT OR EQUIPMENT FOREIGN TO ELECTRICAL SHALL BE PERMITTED TO BE LOCATED WITH THE DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT.

29. ALL NEW ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY OF LOS ANGELES RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT.

FIRE ALARM

1. INSTALLATION OF THIS SYSTEM SHALL COMPLY WITH ALL APPLICABLE GOVERNING THIS TYPE OF SYSTEM AS ENFORCED BY THE LOCAL "AUTHORITY HAVING JURISDICTION" THIS SYSTEM SHALL ABIDE BY ALL REQUIREMENTS IMPOSED BY LOCAL JURISDICTION HAVING AUTHORITY.

2. ALL MATERIALS AND METHODS USED IN THIS INSTALLATION SHALL CONFORM WITH THE APPLICABLE SECTIONS.

3. OF CALIFORNIA BUILDING, FIRE AND ELECTRICAL CODE, ARTICLE 760.

4. PRIOR TO REQUEST FOR FINAL APPROVAL/ACCEPTANCE, PROVIDE STATEMENT OF COMPLIANCE AS NOTED IN CFC 901.2.1 & NFPA 72 CHAP. 4.

5. INSTALLER SHALL PROVIDE OWNER "RECORD DRAWING" (AS-BUILTS) PER CFC 901.6.2, NFPA 72 CHAP. 4.9.10 UPON COMPLETION AND PRIOR TO ACCEPTANCE.

6. ALL DEVICES AND WIRING IN THIS SYSTEM ARE REQUIRED TO BE SUPERVISED FOR FAULT AND FAILURE.

7. ANY PENETRATION TO FIRE RATED ASSEMBLY BY WIRING FOR THIS SYSTEM, IT IS TO BE FIRE STOPPED USING U.L. APPROVED METHOD.

8. DO NOT RUN WIRING EXPOSED SO AS TO BE DAMAGED BY OCCUPANTS.

9. WHERE PERMITTED, "OPEN WIRE" MAY BE EMPLOYED.

10. DEVICES USED IN THIS SYSTEM MAY HAVE STRICT REQUIREMENTS THAT GOVERN THEIR MOUNTING HEIGHTS AND LOCATION.

11. NOTIFICATION APPLIANCE SHALL PROVIDE MINIMUM AUDIBILITY OF 150DB ABOVE AMBIENT LEVELS.

12. FUSED DISCONNECT SWITCH, SIZE AS NOTED, SIZE FUSE PER MANUFACTURER'S RECOMMENDATIONS.

13. DISCONNECT SWITCH, SIZE AS NOTED OR IF NOT SHOWN SIZE PER CONNECTED MOTOR SIZE AND MOTOR DISCONNECT SCHEDULE.

14. ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH, TRIP SIZE AS NOTED.

15. DISCONNECT W/ MAGNETIC MOTOR STARTER (CONTROLLERS) OR CONTACTOR, SIZE PER LOAD SERVED.

16. DIV. 16 CONNECTION TO EQUIPMENT PROVIDED BY OTHERS.

17. DIV. 16 CONNECTION TO EQUIPMENT WITH INTEGRAL DISCONNECT THAT IS PROVIDED BY OTHERS.

18. EQUIPMENT FURNISHED WITHOUT SHOP APPLIED FINISH SHALL BE FIELD PAINTED.

19. CONCEALED SURFACES OF METAL RACKS, FRAMES, AND BOXES SHALL BE PAINTED BEFORE MOUNTING.

20. AFTER TESTS HAVE BEEN COMPLETED, CLEAN ALL LIGHTING FIXTURES AND EQUIPMENT WITH SOAP AND WATER.

ELECTRICAL LEGEND

Table with columns: SYMBOL, DESCRIPTION. POWER DEVICES: DUPLEX RECEPTACLE - WALL MOUNTED AT 18" AFF U.O.N. 20 AMP, 120 VOLT, COVER PLATE PER ARCHITECT INSTRUCTION.

Table with columns: SYMBOL, DESCRIPTION. WIRING: WIRING CONCEALED IN CEILING OR WALL LINE WEIGHT TOP TO BOTTOM = NEW, EXISTING TO REMAIN.

Table with columns: SYMBOL, DESCRIPTION. SWITCHING CONTROLS: SWITCH, FLUSH IN WALL, TOGGLE, SINGLE-POLE, SINGLE THROW +42" AFF U.O.N.

Table with columns: SYMBOL, DESCRIPTION. BRANCH CIRCUIT WIRING LEGEND: 3/4" CONDUIT WITH 2#12 WIRES AND 1#12 GND.

Table with columns: SYMBOL, DESCRIPTION. DISTRIBUTION & EQUIPMENT: BRANCH CIRCUIT PANELBOARDS, SURFACE AND RECESS MOUNTED, SOLID= 120/280V.

Table with columns: SYMBOL, DESCRIPTION. GROUNDING SYSTEM: BARE GROUNDING GRID OR CONDUCTORS, UON.

Table with columns: SYMBOL, DESCRIPTION. FIRE ALARM: FIRE ALARM SYSTEM TO BE DONE DESIGN-BUILD BY CONTRACTOR.

Table with columns: SYMBOL, DESCRIPTION. REFERENCE SYMBOLS: SHEET NOTE REFERENCE, BRANCH CIRCUIT OR FEEDER NOMINAL AMPACITY & TYPE.

Table with columns: SYMBOL, DESCRIPTION. DIAGRAMS: SWITCH, BUS BAR, PIPE GROUND, TRANSIENT VOLTAGE SURGE SUPPRESSOR.

ELECTRICAL DESIGN CRITERIA

- 1. 2010 CALIFORNIA ELECTRICAL CODE (CEC) BASED ON 2008 NATIONAL ELECTRIC CODE WITH STATE AMENDMENTS.

Table with columns: ABBREVIATIONS, PH, P, RNC, RS, RST, SEC, SN, SPOT, SPST, SWBD, SWGR, TEL, TYP, UL, UON, UPS, SUPPLY, V, VA, VOLT-AMPERES, W, WATT, WITH, W/O, WEATHERPROOF, XFMR, ZONE, IN, INCHES, FT, FEET, PHASE, GREATER THAN, LESS THAN, GREATER THAN OR EQUAL TO, SHORT CIRCUIT CURRENT.

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ELECTRICAL DRAWING LIST

Table with columns: NO., DATE, DESCRIPTION, REVISIONS. E0.1 ELECTRICAL LEAD SHEET, E0.2 SINGLE LINE DIAGRAM, E1.0 ELECTRICAL SITE PLAN, E5.1 ELECTRICAL PANEL SCHEDULES.

ISSUE RAINWATER HARVESTING DATE 07.24.12 DRAWING NO. 6693 SHEET TITLE ELECTRICAL LEAD SHEET SHEET NO. E0.1

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DATE: \_\_\_\_ 20\_\_

APPROVED BY:  
Mitsam Mukherjee  
Architecture Services Manager  
CITY OF SANTA MONICA  
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY: DATE: \_\_\_\_ 20\_\_

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REVIEWED BY: DATE: \_\_\_\_ 20\_\_

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ISSUE  
**RAINWATER HARVESTING**

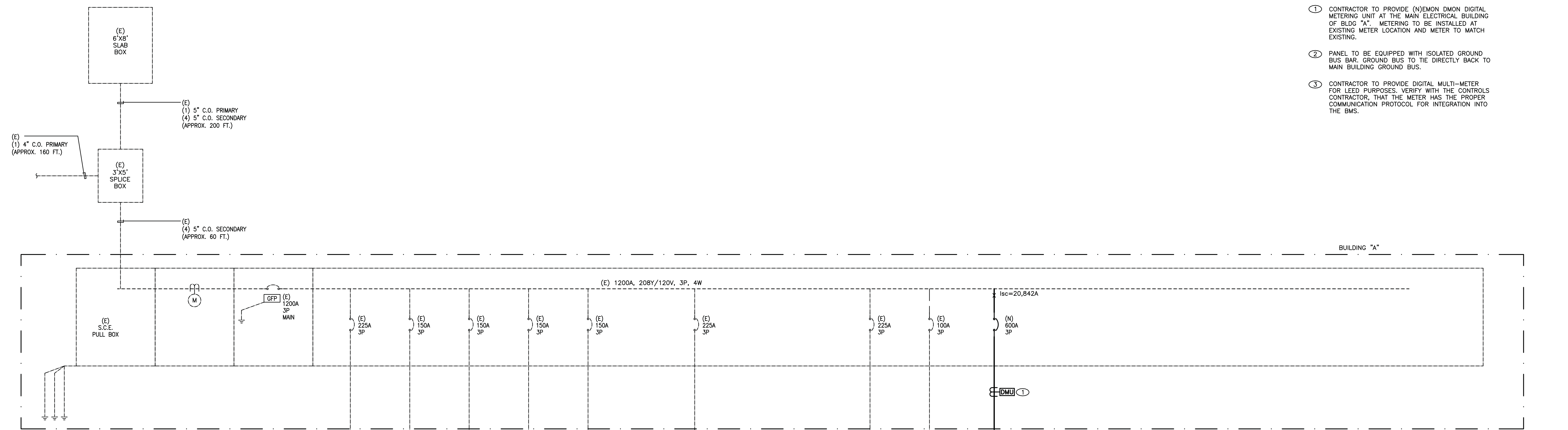
DATE 07.24.12  
DRAWING NO. **6693**

SHEET TITLE  
**SINGLE LINE DIAGRAM**

SHEET NO.  
**E0.2**

**SHEET NOTES**

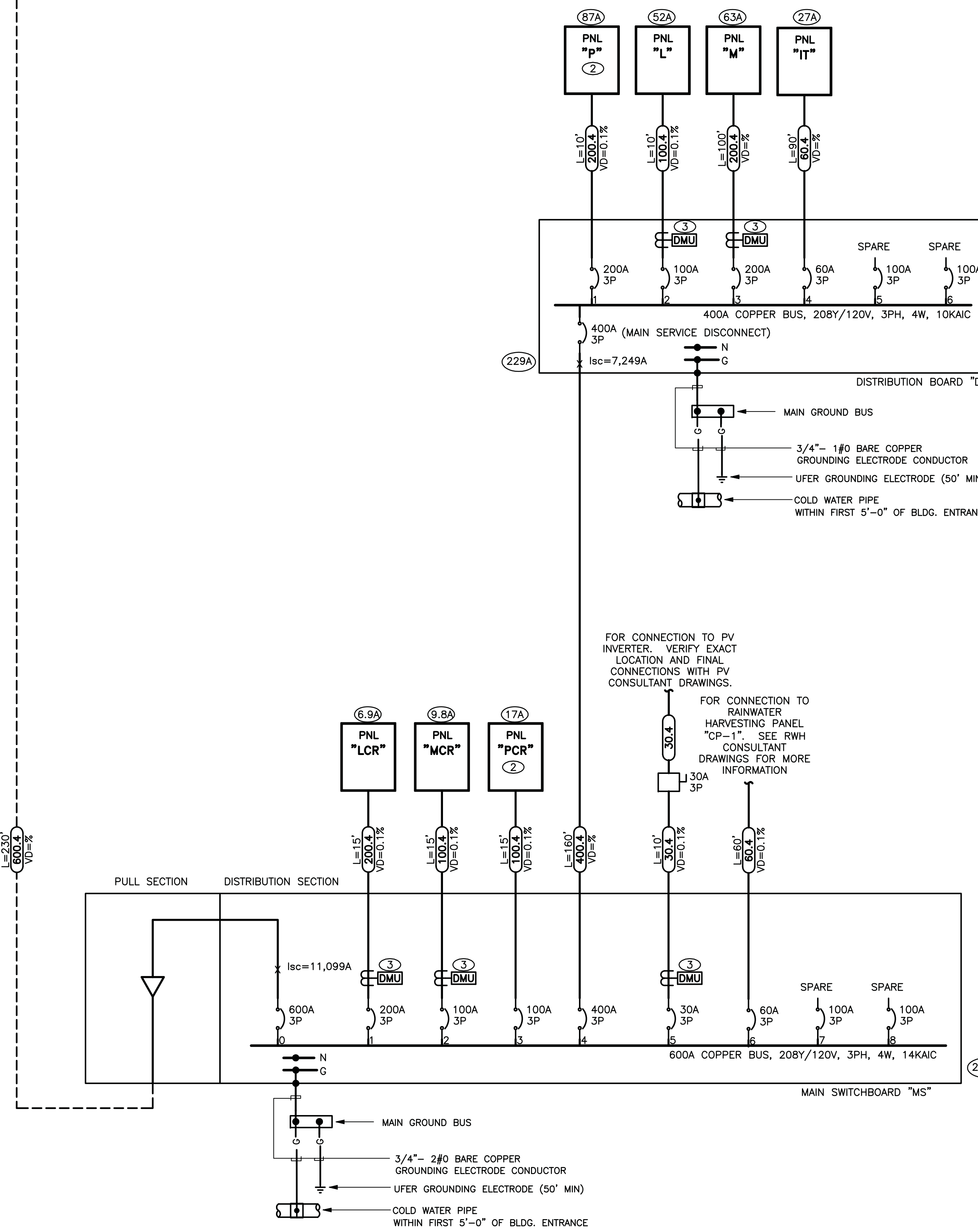
- CONTRACTOR TO PROVIDE (N)EMON DMON DIGITAL METERING UNIT AT THE MAIN ELECTRICAL BUILDING OF BLDG "A". METERING TO BE INSTALLED AT EXISTING METER LOCATION AND METER TO MATCH EXISTING.
- PANEL TO BE EQUIPPED WITH ISOLATED GROUND BUS BAR. GROUND BUS TO BE DIRECTLY BACK TO MAIN BUILDING GROUND BUS.
- CONTRACTOR TO PROVIDE DIGITAL MULTI-METER FOR LEED PURPOSES. VERIFY WITH THE CONTROLS CONTRACTOR, THAT THE METER HAS THE PROPER COMMUNICATION PROTOCOL FOR INTEGRATION INTO THE BMS.



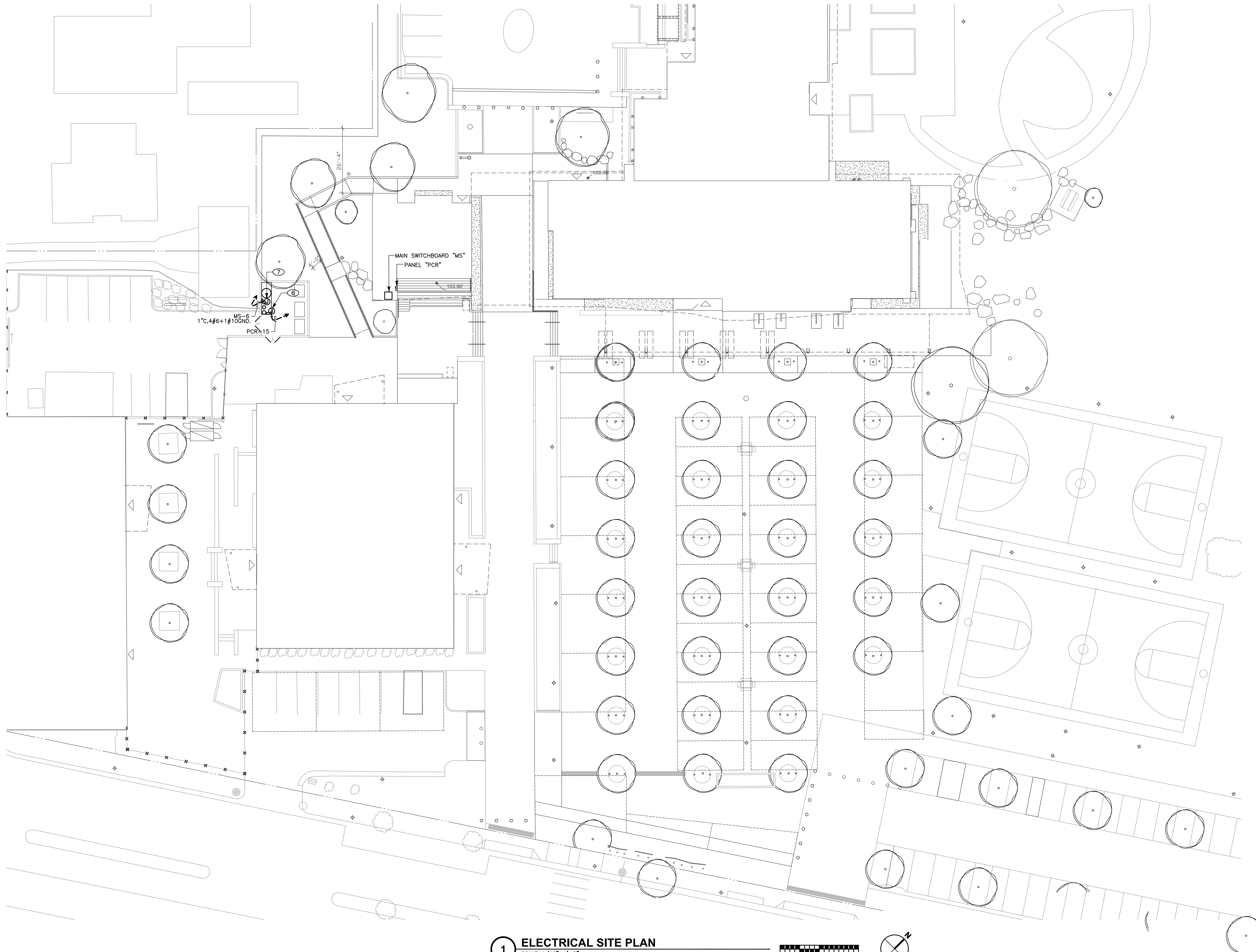
**COPPER FEEDER SCHEDULE**

FEEDER TAG	CONDUCTORS			CONDUCTORS PER SET		
	MET	SETS	RNC	PHASE/NEUTRAL	GROUND	
1200.3	3.00"	4	3.00"	(3) 350 KCMIL	#3/0	
600.4	2.50"	2	3.00"	(3) 350 KCMIL	#1	
400.4	2.00"	2	2.50"	(4) #3/0	#2	
225.3	2.00"	1	2.50"	(3) #4/0	#4	
200.4K	2.50"	1	2.50"	(3)#4/0,(2)#3/0-N	#6	
200.4	2.00"	1	2.50"	(4) #3/0	#6	
150.3	1.50"	1	2.00"	(3) #1/0	#6	
100.4	1.25"	1	1.50"	(4) #2	#8	
100.3	1.25"	1	1.50"	(3) #2	#8	
90.4	1.25"	1	1.50"	(4) #2	#8	
90.3	1.25"	1	1.50"	(3) #2	#8	
80.4	1.25"	1	1.50"	(4) #4	#8	
80.3	1.00"	1	1.50"	(3) #4	#8	
70.4	1.25"	1	1.50"	(4) #4	#8	
70.3	1.00"	1	1.50"	(3) #4	#8	
60.4	1.00"	1	1.00"	(4) #6	#10	
60.3	0.75"	1	1.00"	(3) #6	#10	
50.4K	1.00"	1	1.50"	(3) #6,(1)#2-N	#10	
50.4	1.00"	1	1.00"	(4) #6	#10	
50.3	0.75"	1	1.00"	(3) #6	#10	
40.4	0.75"	1	1.00"	(4) #8	#10	
40.3	0.75"	1	1.00"	(3) #8	#10	
30.4	0.75"	1	1.00"	(4) #10	#10	
30.3	0.75"	1	1.00"	(3) #10	#10	
20.4	0.75"	1	1.00"	(4) #12	#12	
20.3	0.75"	1	1.00"	(3) #12	#12	

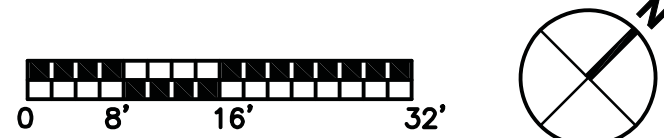
- NOTES:**
- CONDUCTORS AND CONDUITS SHOWN IN THIS SCHEDULE ARE BASED ON COPPER CONDUCTORS WITH THHN/THWN INSULATION.
  - THIS SCHEDULE SHALL BE USED ON ALL FEEDERS SERVING LOADS WHERE THE CIRCUIT BREAKER SIZE MATCHES THE AMPACITY OF ITS FEEDER. REFER TO EQUIPMENT SCHEDULES SHEET E00.05 FOR LOADS, SUCH AS MOTORS, PUMPS, FANS, CHILLERS, ETC. WHERE THE CIRCUIT BREAKER SIZE IS LARGER THAN THE AMPACITY OF ITS FEEDER.
  - PROVIDE GROUND WIRE NOTED ABOVE IN ALL FEEDERS AND BRANCH CIRCUITS. WHERE MULTIPLE CONDUITS ARE INDICATED PROVIDE NOTED GROUND WIRE IN EACH CONDUIT.
  - NOMINAL AMPACITIES GREATER THAN 100 AMPS ARE FOR 75°C TERMINALS.
  - MET = EMT, IMC, GRC, RAC, OR PVC COATED GRC TYPE CONDUITS. RNC = PVC 40, PVC 80 OR FIBERGLASS TYPE CONDUITS ROUTED UNDERGROUND. CONDUIT SIZES NOTED ON SINGLE LINE DIAGRAM OR ON PLANS SUPERSEDE SIZES NOTED ABOVE IF LARGER.







**1 ELECTRICAL SITE PLAN**  
 SCALE: 1/16"=1'-0"



**GENERAL NOTES**

- CONTRACTOR TO VERIFY ALL CONDUIT ROUTING IN FIELD BASED ON EXISTING CONDITIONS.

**SHEET NOTES**

- J-BOX FOR CONNECTION TO RWS CONTROL PANEL. PROVIDE FINAL CONNECTIONS PER PANEL MANUFACTURER'S REQUIREMENTS.
- J-BOX FOR CONNECTION TO RAINWATER HARVESTING PANEL CP-1. VERIFY EXACT LOCATION WITH RAINWATER HARVESTING CONSULTANT'S DRAWINGS.

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PROJECT

**KoningEizenbergArchitecture**  
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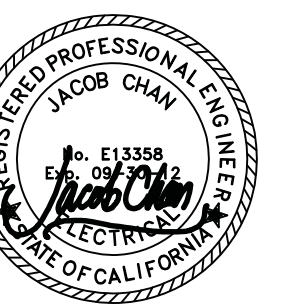
ARCHITECT'S PROJECT NO.

**1001**

ARCHITECT

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SUBMITTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ 20\_\_

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ 20\_\_

\_\_\_\_\_  
 Miriam Mulder,  
 Architecture Services Manager  
 CITY OF SANTA MONICA  
 DEPARTMENT OF PUBLIC WORKS

REVIEWED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ 20\_\_

REVIEWED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ 20\_\_

REVIEWED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ 20\_\_

CITY CLIENT

NO.	DATE	BY	DESCRIPTION

07.24.12 BULLETIN 2  
 REVISIONS

ISSUE  
**RAINWATER HARVESTING**

DATE: 07.24.12  
 DRAWING NO. **6693**

SHEET TITLE  
**ELECTRICAL SITE PLAN**

SHEET NO.  
**E1.0**

DATE:		13-Jul-12		PANEL VOLTAGE:		208/120V		CIRCUIT CODE: 1-(CONTINUOUS)										
LOCATION:		PCR		PHASE & WIRE:		3PH 5W		2-(NON-CONTINUOUS)										
PANEL:		PCR		COPPER BUS:		22GA		3-(RECEPTACLES)										
AIC RATING:		10000		MAINS CB:		200A		4-(KITCHEN)										
								NO. OF EQUIP=										
NO	CB	TRIP	POLE	DESCRIPTION	MISC	REC	LITE	LOAD	PHASES	LOAD	LITE	REC	MISC	DESCRIPTION	TRIP	CODE	NO	
1	3	20	1	COMM RM 124 FLOOR OUTLETS	2			720	A	1080			360	2	PANTRY RM 125 RECEPTS	1	20	3
3	3	20	1	COMM RM 124 FLOOR OUTLETS	1			360		720			360	2	PANTRY RM 125 RECEPTS	1	20	3
5	3	20	1	COMM RM 124 FLOOR OUTLETS	1			360		720			360	1	AV RM 127 REC	1	20	3
7	3	20	1	COMM RM 124 RECEPTS	1			360		720			360	1	AV RM 127 REC	1	20	3
8	2	20	1	COMM RM 124 PROJ SCREEN	1			360		720			360	1	AV RM 127 REC	1	20	3
11	3	20	1	STOR. RM 130 131 RECEPTS	3			540		1260			360	2	ROOF RECEPTS	1	20	3
13	3	20	1	RM 130 VIDEO PROJECTOR	1			180		540			360	2	RM 128, 129 RECEPTS	1	20	3
15	1	20	1	RWS CONTROL PANEL	1			1000		1540			540	3	COMM RM 124 GEN. REC.	1	20	3
17	20	1		SPARE											SPARE	1	20	18
19	20	1		SPARE				0							SPARE	1	20	20
21	20	1		SPARE				0							SPARE	1	20	22
23	20	1		SPARE				0							SPARE	1	20	24
25	20	1		SPARE				0							SPARE	1	20	26
27	20	1		SPARE				0							SPARE	1	20	28
29				SPACE				0							SPARE	1	20	30
31				SPACE				0							SPARE			32
33				SPACE				0							SPARE			34
35				SPACE				0							SPARE			36
37				SPACE				0							SPARE			38
39				SPACE				0							SPARE			40
41				SPACE				0							SPARE			42
				TOTAL				2340	2980	1980	CONNECTED KVA		8.9					
								CONN KVA (CODE 1)		1.0								
								CONN KVA (CODE 2)		0.4								
								CONN KVA (CODE 3)		5.9								
								CONN KVA (CODE 4)		0.0								
								TENANT ALLOWANCE KVA		0.0								
								SPARE (DECIBAL)				SPARE KVA		0.0				
								FEEDER DEMAND KVA		7.8								
								FEEDER DEMAND AMP8		21.0								
								X-FMR. KVA		7.3								

**LEGEND**  
PCR

**PICO BRANCH LIBRARY**  
2201 Pico Blvd.  
Santa Monica, CA 90404

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ARCHITECT'S PROJECT NO.  
**1001**  
ARCHITECT

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CITY CLIENT

NO.	DATE	BY	DESCRIPTION
07.24.12			BULLETIN 2
REVISIONS			

ISSUE  
**RAINWATER HARVESTING**  
DATE: 07.24.12  
DRAWING NO. **6693**

SHEET TITLE  
**PANELBOARD SCHEDULES**

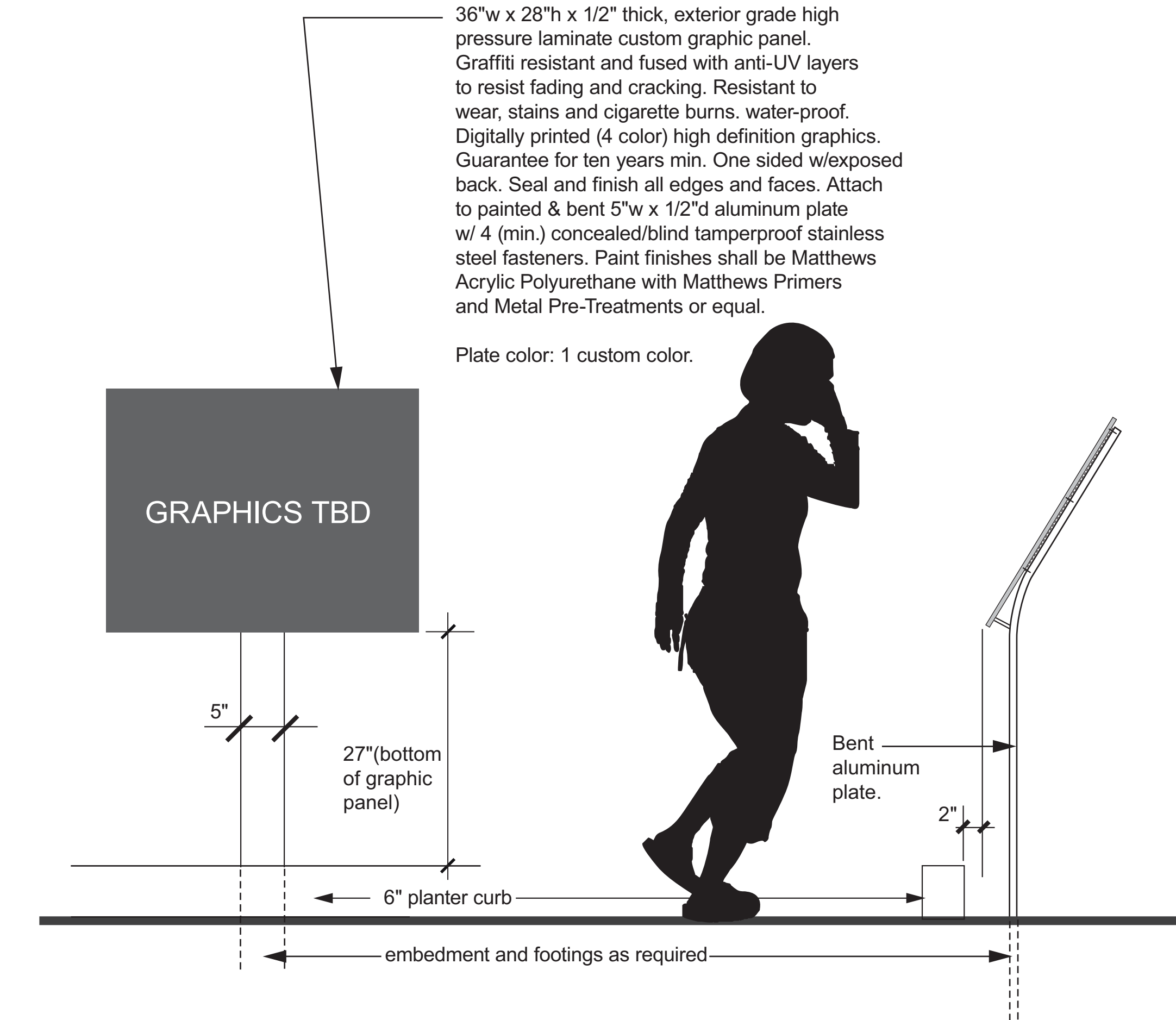
SHEET NO.  
**E5.1**

# TOILETS USE RECYCLED WATER

Acrylic plaque with matte face and polished edges  
 4" w x 6" h x 1/4" thick  
 Second surface custom background color  
 Second surface silkscreened graphics, one custom color  
 Attach to wall with VHB tape & silicone  
 One piece construction  
 Quantity: TBD

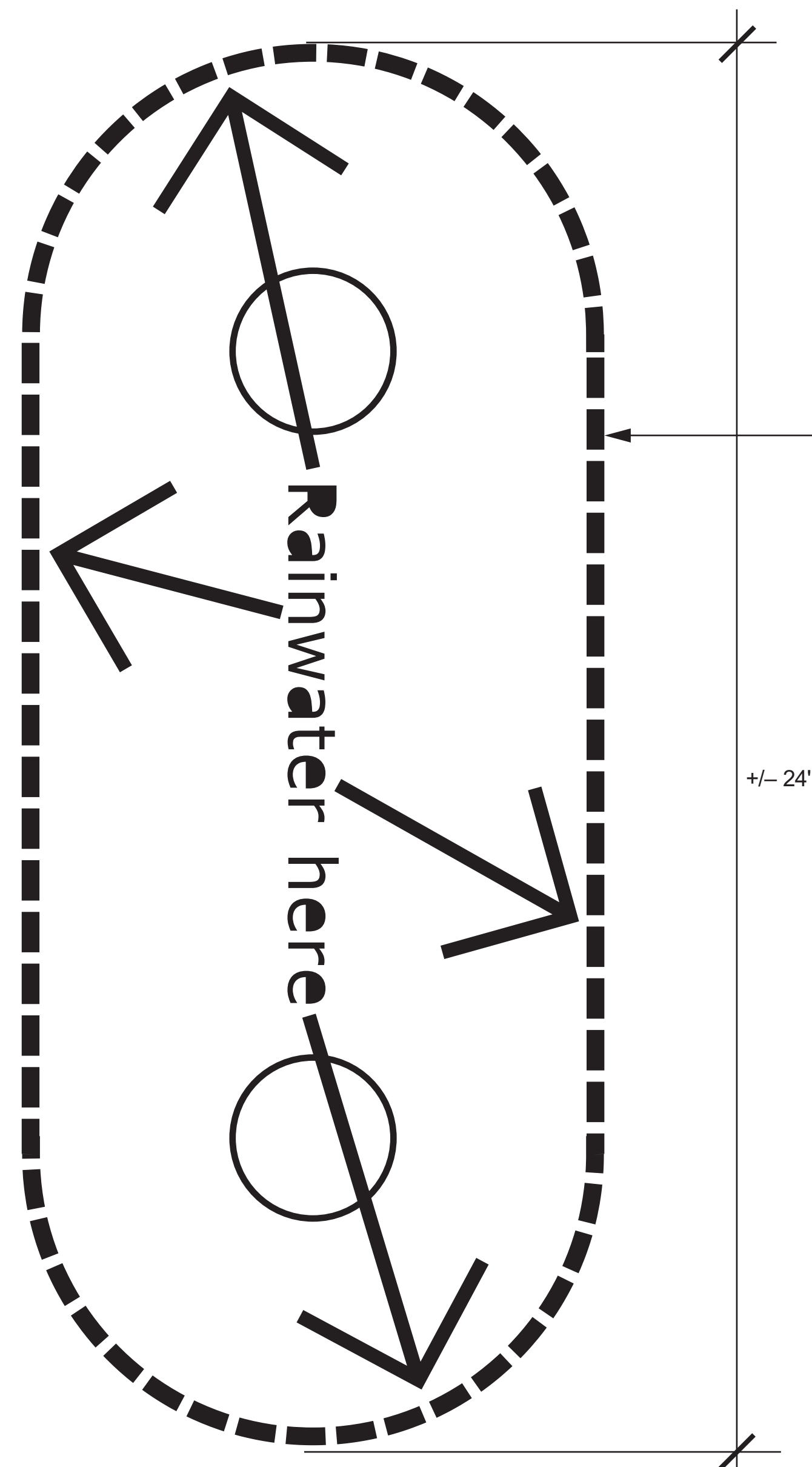
4 RAIN WATER HARVEST INFO PLAQUE

0 .25' .5' 1' FULL SIZE



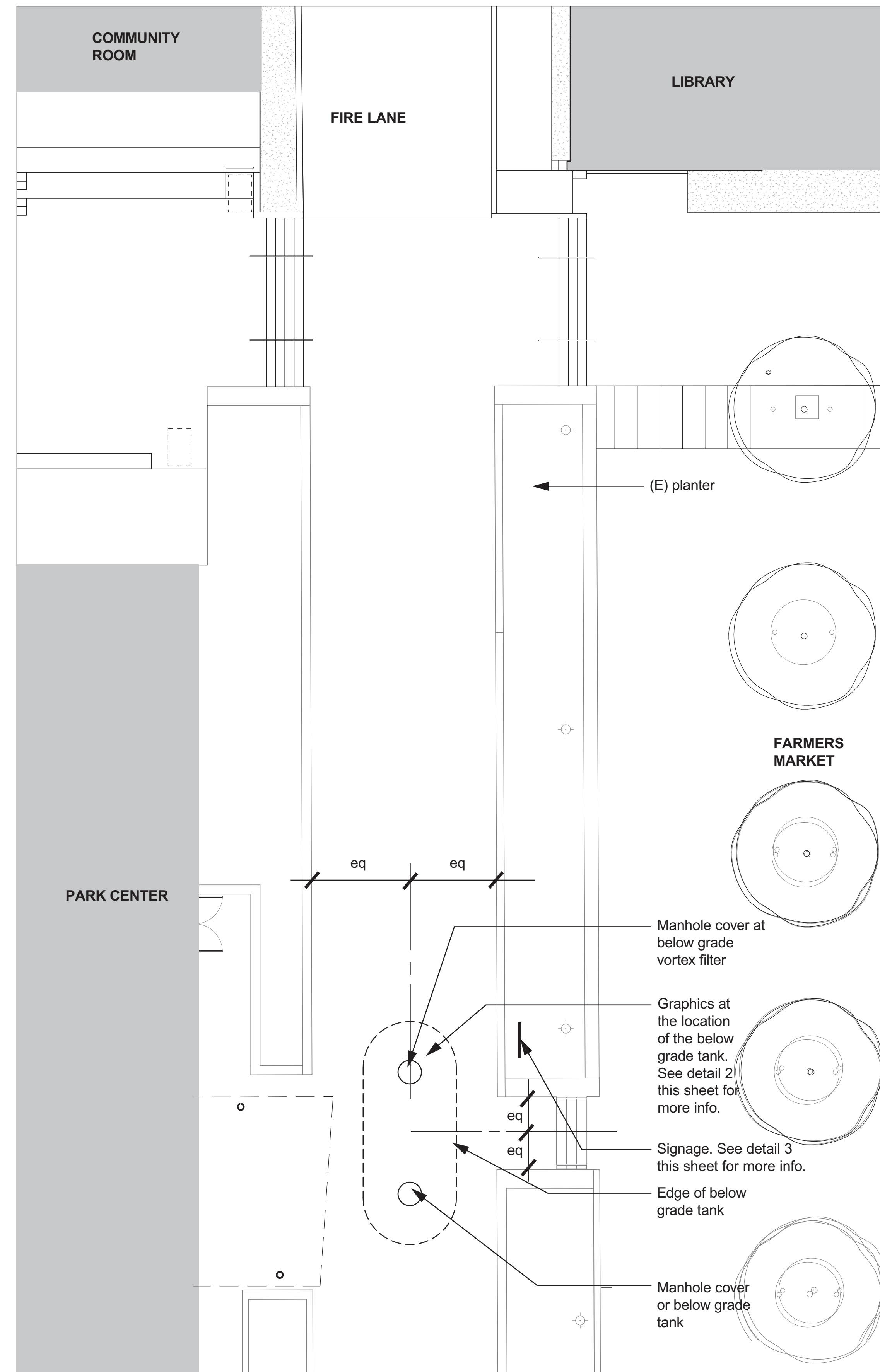
3 RAIN WATER HARVEST EXHIBIT PANEL

0 .25' .5' 1' 1" = 1'-0"



2 ENLARGED GROUND GRAPHIC

0 .5' 1' 2' 1/2" = 1'-0"



0 2' 4' 8' 1/8" = 1'-0"

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