

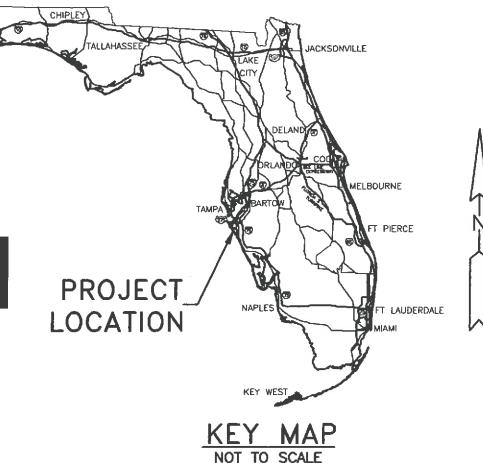


CITY OF VENICE

PHASE 4

WATER MAIN REPLACEMENT PROGRAM

ISSUED FOR CONSTRUCTION



CITY OF VENICE CITY COUNCIL

| | |
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| JOHN HOLIC | MAYOR |
| KIT MCKEON | VICE MAYOR |
| FRED FRAIZE | COUNCIL MEMBER |
| BOB DANIELS | COUNCIL MEMBER |
| JEANETTE GATES | COUNCIL MEMBER |
| RICHARD CAUTERO | COUNCIL MEMBER |
| DEBORAH ANDERSON | COUNCIL MEMBER |



FIELD BOOK INFORMATION
1/26/2017 10:21 AM BY DARBY, KRISTIN
PROJECT MANAGER: HOLLY KREMER
C:\FW\WORK\KARBY\DD59570\GCS-PLTS\VENICE PH4-G0.00.1.DWG - G0.00

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| VEN2018-01M | |
| WADETRIM | |
| 8010 Woodland Center Boulevard Suite 1200, Tampa, FL 33614 813.882.4373/888.499.9624 FAX: 813.888.7215 Certificate of Authorization No.: 3952 www.wadetrim.com | |
| Building relationships on a foundation of excellence | |
| PREPARED UNDER THE SUPERVISION OF: | |
| Ricardo G. Borromeo, PE No. 67101 Ricardo G. Borromeo, PE STATE OF FLORIDA PROFESSIONAL ENGINEER 01/26/17 Ricardo Borromeo, PE 67101 Ricardo Borromeo, PE ISSUED FOR: 50% DESIGN 08/07/2015 100% DESIGN 10/02/2015 PERMITS 11/25/2015 BID SET 01/05/2016 100% DESIGN (REVISED) 06/21/2016 BID SET (REVISED) 08/24/2016 CONSTRUCTION 01/26/2017 | |



Know what's below.
Call before you dig.

REPORT OF SURVEY

- PROPERTY CORNERS VISIBLE ABOVE GROUND AT THE TIME OF SURVEY WERE LOCATED TO FACILITATE THE ALIGNMENT OF THE SARASOTA COUNTY PROPERTY APPRAISER GEOGRAPHIC INFORMATION SYSTEM (GIS) TO THE FOUND MONUMENTS. PROPERTY AND RIGHT-OF-WAY LINES SHOWN HEREON ARE FOR INFORMATIONAL PURPOSES ONLY.
- BEARINGS AND COORDINATES CONTAINED WITHIN THIS ELECTRONIC DRAWING FILE/SURVEY ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, APPLICABLE ZONE, NAD 83 (2007 ADJUSTMENT) AND ARE DERIVED BY MULTIPLE REAL-TIME KINEMATICS GPS OBSERVATIONS.
- ELEVATIONS SHOWN HEREON ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE BASED UPON REAL-TIME KINEMATICS GPS OBSERVATIONS.

GENERAL NOTES

- THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- THE CONTRACTOR SHALL EMPLOY THE SERVICES OF A FLORIDA REGISTERED SURVEYOR AND MAPPER TO ESTABLISH THE PROPOSED PIPELINE, PROPERTY LINES, RIGHT-OF-WAY LINES, EASEMENTS, BASELINES, BENCH MARKS (ELEVATION), CENTER LINES AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.
- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, OTHER FEATURES AND PROPOSED FUTURE WORK ARE SHOWN BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THERE MAY BE OTHER IMPROVEMENTS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY PRIOR TO BIDDING TO VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THESE PLANS) AFFECTING HIS WORK. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR RE-WORK RESULTING FROM FAILURE TO COMPLY WITH THESE INSTRUCTIONS.
- THE CONTRACTOR SHALL PROVIDE AT LEAST FORTY EIGHT (48) HOURS NOTICE TO ALL EXISTING UTILITY COMPANIES IN ORDER TO ALLOW FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL CONTACT "SUNSHINE STATE ONE CALL" 48 HOURS PRIOR TO OPERATIONS AT 1-800-432-4770.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY TO REPORT ANY CONFLICTS BETWEEN WHAT IS SHOWN HEREIN AND ACTUAL CONDITIONS DISCOVERED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO RESOLVE CONFLICTS THAT MAY ARISE IN THE FIELD DURING CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE WITH THE POWER COMPANY AND OTHER UTILITIES TO OBTAIN SUPPORT FOR UTILITY POLES WHERE CONSTRUCTION MAY CAUSE THE POLE TO LOSE ITS SUPPORT.
- FIELD CONDITIONS MAY NECESSITATE ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS APPROVED BY THE ENGINEER OR THE OWNER'S REPRESENTATIVE.
- EXISTING UTILITY SERVICE LATERALS ARE NOT SHOWN ON THE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL SERVICE LATERALS PRIOR TO CONSTRUCTION. UTILITY SERVICES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, EXCEPT FOR MINOR SHUT-DOWNS AS AUTHORIZED BY THE CITY.
- THE CONTRACTOR, WORKING WITH THE ENGINEER AND THE OWNER, SHALL COORDINATE THE SHUTDOWN, STARTUP AND/OR PARTIAL INTERFERENCE WITH ONGOING SYSTEM OPERATIONS. INSTALLATION AND WORK ON THE EXISTING SYSTEMS ARE NOT TO BE MADE DURING TIMES OF PEAK FLOWS. WRITTEN REQUEST SHALL BE PROVIDED 48 HOURS PRIOR TO SHUTTING DOWN ANY WATER MAIN.
- CONSTRUCTION OF PORTIONS OF THE PROJECT, AUTHORIZED BY PERMIT OR LICENSE AGREEMENT, ARE SUBJECT TO INSPECTION AND TESTS AS MAY BE NECESSARY BY THE PERMIT GRANTING AUTHORITY. ALL CONTRACTOR SUPERVISORY PERSONNEL SHALL FURNISH INFORMATION TO AND COOPERATE WITH THESE AUTHORITIES IN CONDUCTING THEIR TESTING AND INSPECTION PROGRAM.
- WORK SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE FEDERAL, STATE AND LOCAL AGENCY'S REGULATIONS AND STANDARDS.
- CONTRACTOR SHALL COMPLY WITH THE "TRENCH SAFETY ACT", CHAPTER 90-96, FLORIDA STATUTES.
- SIGNS & BARRICADES SHALL BE IN ACCORDANCE WITH LATEST F.D.O.T. MANUAL OF SAFE PRACTICES; REFERENCE F.D.O.T. INDEXES 600 THROUGH 670 AND 17349 PER ROADWAY AND TRAFFIC DESIGN STANDARDS LATEST EDITION.
- THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER ANY WETLAND AREAS THAT MAY BE ENCOUNTERED. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINE RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.
- SPECIAL PIPE FOUNDATIONS, IF REQUIRED, SHALL BE DETERMINED IN THE FIELD AND THE TYPE REQUIRED WILL BE AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE ALL REQUIRED SHEETING AND TRENCH SHORING REQUIRED TO PROTECT EXISTING UTILITIES AND OTHER FACILITIES INTENDED TO REMAIN IN SERVICE.
- ALL PROPOSED MAINS SHALL HAVE A MINIMUM COVER OF 36".
- WATER MAINS SHALL BE INSTALLED AT LEAST 5 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED FORCE MAINS. THE DISTANCE SHALL BE MEASURED FROM FACE TO FACE. VERTICAL SEPARATION BETWEEN WATER MAINS CROSSING OTHER PIPELINES/UTILITIES SHALL BE A MINIMUM VERTICAL DISTANCE OF 12 INCHES BETWEEN THE OUTSIDE OF THE OTHER PIPELINES/UTILITIES AND THE OUTSIDE OF THE WATER MAIN. WHERE THE MINIMUM REQUIRED VERTICAL SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SUCH THAT THE JOINTS OF THE PROPOSED MAIN ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10 FEET BETWEEN ANY TWO JOINTS.
- ALL VALVES SHALL BE APPROPRIATELY TAGGED OR LABELED. ALL PIPING, PIPELINES, VALVES, AND OUTLETS SHALL BE COLOR-CODED BLUE, OR OTHERWISE MARKED, ALL VALVE BOX COVERS SHALL BE MARKED "WATER".
- JOINT RESTRAINT SHALL BE PROVIDED AT ALL FITTINGS UNLESS NOTED OTHERWISE ON PLANS. THE MINIMUM LINEAR FEET RESTRAINED ON BOTH SIDES OF FITTINGS OR VALVES FOR DUCTILE IRON PIPE SHALL BE AS SHOWN ON THE DETAILS PROVIDED IN THESE DRAWINGS.
- THE CONTRACTOR SHALL LOCATE ANY POTENTIAL UTILITY CONFLICTS AND PROVIDE FITTINGS AND RESTRAINTS AS NECESSARY AHEAD OF PIPE LAYING OPERATIONS.
- CONTRACTOR SHALL USE TRENCH BOXES, SHEETING AND OTHER MEANS TO LIMIT THE WIDTH OF THE TRENCH AND AVOID ENCROACHMENT ONTO ADJACENT PROPERTY AND TO MINIMIZE WETLAND IMPACTS.
- CONTRACTOR SHALL PROVIDE A DECHLORINATION PLAN AND DESCRIPTION OF THE METHODS FOR DISPOSAL TO THE ENGINEER OF RECORD AND CITY OF VENICE FOR APPROVAL. AS A RESULT OF THE DECHLORINATION EFFORTS THERE SHALL BE "NO FISH KILL" PERMITTED WITH THE DISPOSAL.

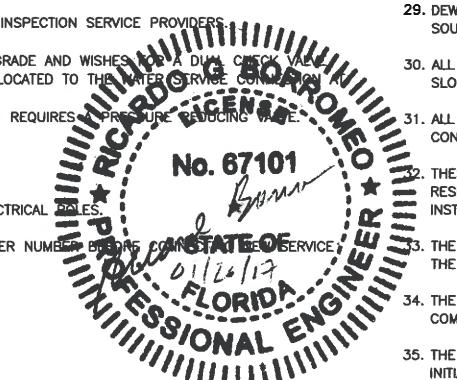
GENERAL NOTES (CONTINUED)

- CONTRACTOR SHALL PROVIDE THE CITY OF VENICE WITH 24 HOUR NOTICE PRIOR TO COMMENCING WORK WITHIN THE CITY LIMITS AND 48 HOUR NOTICE PRIOR TO PERFORMING ANY WET TAP TO THE CITY'S WATER DISTRIBUTION SYSTEM.
- ANY DIGGING AND/OR DISTURBANCE TO THE ROADSIDE SWALES WITHIN THE RIGHT-OF-WAY OF THE CITY OF VENICE SHALL BE PROPERLY GRADED, SODDED AND RESTORED. CONTACT THE CITY OF VENICE PUBLIC WORKS DEPARTMENT.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING SARASOTA COUNTY AND CITY OF VENICE AGENCIES A MINIMUM OF 2 WEEKS IN ADVANCE IN WRITING, OF ANY ROAD CLOSURES, DETOURS AND CONSTRUCTION ACTIVITIES PRIOR TO CONSTRUCTION. THE NOTICE SHALL BE ACCOMPANIED WITH A SCHEDULE OF ROAD CLOSURES AND ANTICIPATED INTERRUPTIONS IN TRAFFIC.

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| SCHOOL BOARD OF SARASOTA COUNTY ATTN: MICKI RYAN, PLANNING ANALYST LONG RANGE PLANNING DEPARTMENT BLUE AWNING BUILDING - ROOM 106 1960 LANDINGS BOULEVARD SARASOTA, FLORIDA 34231 PHONE: 941-927-9000 E-MAIL: MLCKL_RYAN@SARASOTA.K12.FL.US | CITY OF VENICE FIRE DEPARTMENT ATTN: JOE SILVA BATTALION CHIEF 200 GROVE STREET NORTH VENICE, FLORIDA 34285 PHONE: 941-480-3030 E-MAIL: JSILVA@CI.VENICE.FL.US |
| UNITED STATE POST OFFICE ATTN: PHILLIP FLEENER DELIVERY SUPERVISOR 350 W. VENICE AVE VENICE, FLORIDA 34285-0001 PHONE: 941-483-4195 E-MAIL: PHILLIP.E.FLEENER@USPS.GOV | CITY OF VENICE CITY OF VENICE SOLID WASTE ATTN: BOB MORONI ACTING SOLID WASTE SUPERINTENDENT 221 SEABOARD AVENUE VENICE, FLORIDA 34285 PHONE: 941-486-2422 E-MAIL: BMORONI@VENICEGOV.COM |
| CITY OF VENICE PUBLIC INFORMATION OFFICER ATTN: LORRAINE ANDERSON VENICE CITY HALL 401 W. VENICE AVE VENICE, FLORIDA 34285 PHONE: 941-486-2626 EXT. 7401 E-MAIL: LANDERSON@VENICEGOV.COM | |
| 28. THROUGHOUT CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN ALL WEATHER EMERGENCY ACCESS AT ALL ROAD CROSSINGS. THE ACCESS MUST WITHSTAND THE WEIGHT OF A 32 TON FIRE TRUCK. | |
| 29. CONTRACTOR SHALL STORE AND PROVIDE PROTECTION FOR ALL COMBUSTIBLE PRODUCTS AND MATERIALS FROM VEHICULAR DAMAGE AND VANDALISM. | |
| 30. GROUNDWATER DEWATERING ACTIVITIES ARE NOT COVERED BY THE PROJECT ENVIRONMENTAL RESOURCE PERMIT. THE CONTRACTOR SHALL APPLY TO THE FDEP FOR COVERAGE UNDER THE GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY PURSUANT TO 62-621.300 (2), F.A.C. CONTRACTOR IS RESPONSIBLE FOR ALL ASSOCIATED SAMPLING AND TESTING. A COPY OF THE APPROVED PERMIT SHALL BE PROVIDED TO THE AUTHORITY, ENGINEER OF RECORD AND CITY OF VENICE. | |
| 31. CONTRACTOR SHALL SIGN THE STORM WATER POLLUTION PREVENTION PLAN PROVIDED ON SHEET G1.02 AND SHALL SUBMIT THE REQUIRED NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORM WATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (FORM 62-621.300(4)(B)) TO THE FDEP ALONG WITH ANY REQUIRED FEE. | |
| 32. PRESSURE MAINS (POTABLE, RECLAIMED, FORCE MAINS) a. COMPACTION TESTING SHALL BE PERFORMED EVERY 250 FEET. b. PRESSURE TEST (MAIN) PRIOR TO TESTING, ALL AIR MUST BE EXPELLED FROM THE PRESSURE MAIN. TEST PRESSURE SHALL BE WATER (POTABLE AC RECLAIMED) MAINS: 150 PSI FORCE (WASTEWATER) MAINS: 100 PSI TEST PRESSURE SHALL BE HELD FOR A MINIMUM OF 2 HOURS ALLOWABLE LEAKAGE SHALL BE CALCULATED WITH THE FOLLOWING: $L = \frac{S \cdot D \cdot \sqrt{P}}{148,000}$ L= ALLOWABLE LEAKAGE, GPH S= LENGTH OF PIPE TESTED, FT D= DIAMETER OF PIPE, IN P= AVERAGE TEST PRESSURE, PSI | |
| c. PRESSURE TEST (TAPPING SLEEVE & VALVE) SHALL BE IN CONFORMANCE WITH DETAIL 5, SHEET D1.01 OF THE DETAILS. d. BACTERIOLOGIC TESTING OF POTABLE MAINS SHALL BE COORDINATED THROUGH COV UTILITIES DEPT. AND IN CONFORMANCE WITH STATE OF FLORIDA DEPARTMENT OF HEALTH. BACTERIAL SAMPLE SHALL BE TAKEN BY A CERTIFIED LABORATORY OR FDOH PERSONNEL ONLY. e. FOR ALL WATER NEEDED FOR FLUSHING, PRESSURE TESTING OR BACTERIOLOGICAL SAMPLING, PLEASE PROVIDE 48 HOURS ADVANCE NOTICE TO THE CITY OF VENICE UTILITIES DEPARTMENT (480-3333). THE CITY WILL OPERATE ALL VALVES. f. DISINFECTING OF WATER MAINS MUST FOLLOW ANSI/AWWA 651-99 AND MUST BE WITNESSED BY CITY UTILITIES. 48 HR. ADVANCE NOTICE IS REQUIRED (480-3333). DISINFECTION PLAN TO BE SUBMITTED TO COV UTILITIES DEPT. FOR REVIEW AC APPROVAL PRIOR TO SCHEDULING DISINFECTION. g. FORCE MAINS SHALL BE A MINIMUM OF 4" IN DIAMETER. | |
| 33. BACKFLOW ASSEMBLIES a. BACKFLOW ASSEMBLIES SHALL BE TESTED UPON INSTALLATION BY A CERTIFIED PLUMBER AND RESULTS SUBMITTED TO THE UTILITIES DEPARTMENT WITHIN 72 HOURS. b. COORDINATE WITH TECHNICAL DIVISION FOR A LIST OF INDEPENDENT INSPECTION SERVICE PROVIDERS. c. IF A CUSTOMER HAS A BACKFLOW PREVENTER DEVICE (BFP) ABOVE GRADE AND WISHES FOR A DRAIN CUP TO BE INSTALLED, THE EXISTING THERMAL EXPANSION MUST BE RELOCATED TO THE WATER SERVICE CONNECTION TO THE HOUSE. d. EVERY BFP EXCEPT FOR REDUCE PRESSURE ZONE ASSEMBLIES (RPZ) REQUIRES A PRESSURE REDUCING VALVE. | |
| 34. CONTRACTOR SHALL CONTACT PROPERTY OWNER PRIOR TO INSTALLATION. 35. PROPOSED WATER MAIN SHALL BE 18" (MIN) OFFSET FROM EXISTING ELECTRICAL POLES. 36. CONTRACTOR SHALL CONFIRM WATER METER NUMBER AND IRRIGATION METER NUMBER BEFORE CONNECTING TO SERVICE LINES WHEN EXISTING METERS ARE NEXT TO EACH OTHER. | |

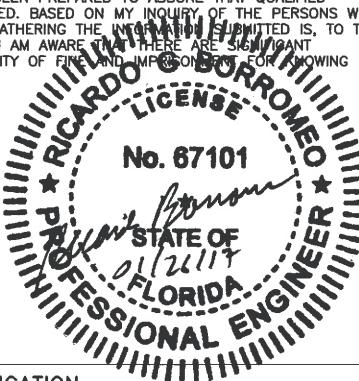
EROSION AND SEDIMENTATION CONTROL NOTES

- ALL PRACTICABLE EFFORT SHALL BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT MATERIALS TO INLETS, SURFACE DRAINS, WETLANDS AND LAKE AREAS, PER FDEP/SFWMD "BEST MANAGEMENT PRACTICES". THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION EFFORTS THAT MAY BE REQUIRED.
- THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING FROM THE PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM THE SITE IF NOT REUSABLE ON-SITE AND ASSUMING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
- ADDITIONAL PROTECTION - ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNFORESEEN CONDITIONS OR ACCIDENTS.
- THE CONTRACTOR SHALL ENSURE THAT ALL EXISTING DRAINAGE STRUCTURES, PIPES, ETC., ARE CLEANED OUT AND WORKING PROPERLY AT THE TIME OF PROJECT COMPLETION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING DIRT AND SEDIMENT FROM ALL CONSTRUCTION EQUIPMENT AND VEHICLES PRIOR TO ENTERING PUBLIC ROAD WAYS.
- THE CONTRACTOR SHALL CLEAN ALL ROADWAYS WITHIN OR ADJACENT TO THE PROJECT LIMITS ON A DAILY BASIS OR AS NEEDED TO PREVENT TRANSFER OF SEDIMENTATION.
- HAY BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
- HAY BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
- THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPAKTED AGAINST THE FILTER BARRIER.
1. EACH HAY BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALES.
- LOOSE STRAW SHOULD BE WEDGED BETWEEN THE BALES TO PREVENT WATER FROM ENTERING BETWEEN THE BALES.
- STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAIN EVENTS.
- CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
- NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEDED.
- SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USEABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC OR BALES SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN THE DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH EXISTING GRADE, PREPARED AND SEDED.
- EXISTING STORM STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN EVENT, REPAIRS MADE TO THE FILTER BARRIERS, AND SILT / SEDIMENT REMOVED FROM PIPES AND STRUCTURES AS NEEDED TO PROVIDE POSITIVE FLOW.
- SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/3 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
- FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO: "THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT", FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.), CHAPTER 6.
- EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS A POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
- ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
- SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
- ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER THAT LIMITS THE DISCHARGE TO 29 NTU ABOVE THE BACKGROUND CONCENTRATION OF THE OUTFALL.
- DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT.
- ALL DISTURBED AREAS TO BE STABILIZED THROUGH COMPACTION, SILT SCREENS, HAY BALES AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER SHALL RECEIVE STAKED SOLID SOD.
- ALL Dewatering, Erosion and Sediment Control Devices are to remain in place after completion of construction and removed only when areas have been stabilized.
- THESE NOTES INDICATE THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
- THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL FDEP OR WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO THE COMPLIANCE FOR EROSION AND SEDIMENTATION CONTROL.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
- THE CONTRACTOR SHALL EXECUTE THE STORM WATER POLLUTION PREVENTION PLAN PROVIDED ON SHEET G1.02 PRIOR TO INITIATING CONSTRUCTION.



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| NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED: | C WadeTrim 813-929-1035 info@wadetrim.com | CITY OF VENICE, FLORIDA PHASE 4 WATER MAIN REPLACEMENT PROGRAM ISSUED FOR CONSTRUCTION GENERAL NOTES | |
| | | BY | REV# |
| | | DATE | DATE |
| | | BY | REV# |
| Building design step by step of excellence | | | |

ISSUED FOR: DATE: BY:
50% DESIGN 8/7/15 RB
100% DESIGN 10/2/15 RB
PERMITS 11/25/15 RB
BID SET 1/5/16 RB
100% DESIGN 6/21/16 RB
(REVISED)
BID SET 8/24/16 RB
(REVISED)
CONSTRUCTION 10/26/17 RB
JOB NO. VEN2018-01M
SHEET
G 1.01

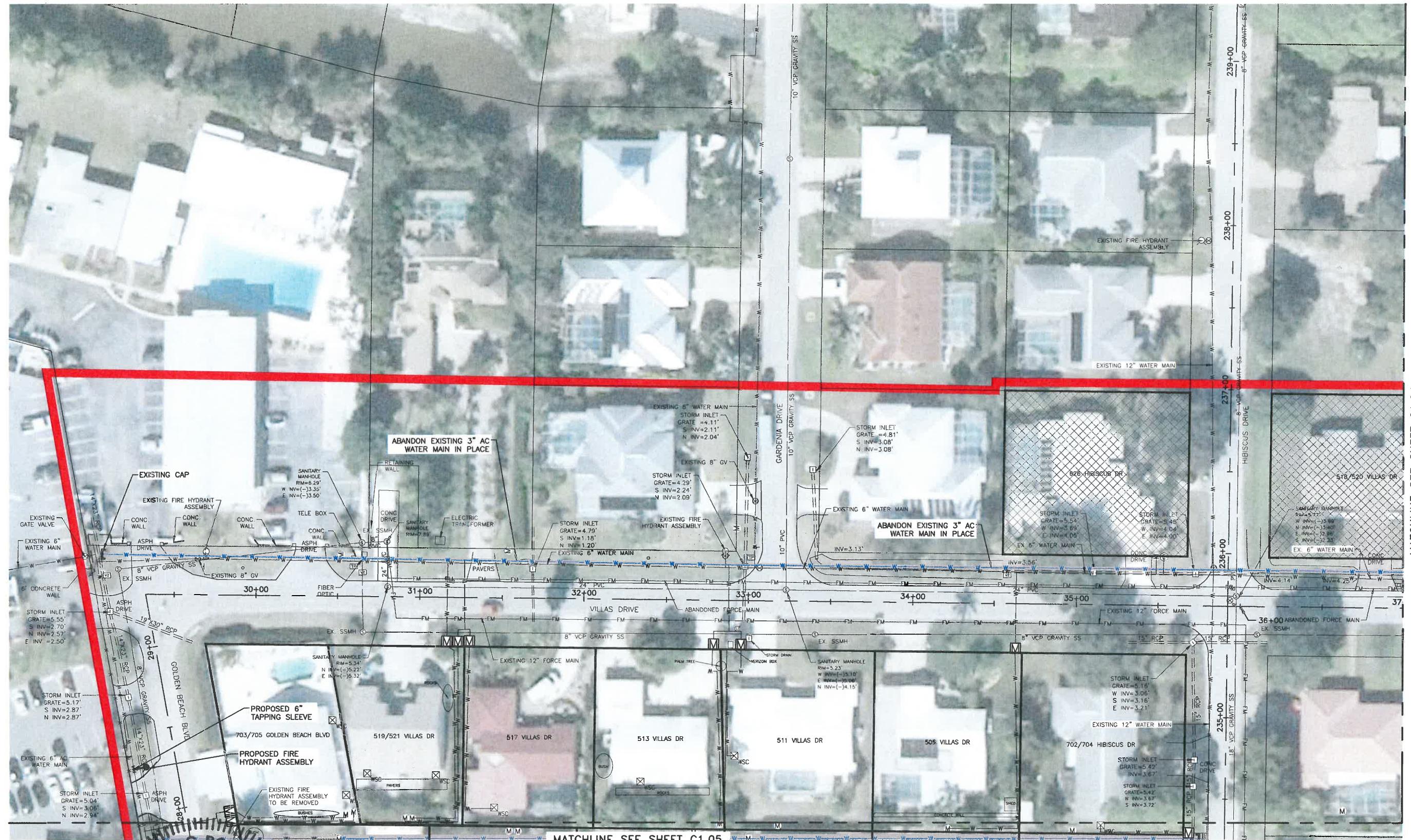


CITY OF VENICE, FLORIDA
PHASE 4
WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION
STORMWATER POLLUTION AND
PREVENTION PLAN



ISSUED FOR: DATE: BY
50% DESIGN 8/7/15 RE
100% DESIGN 10/2/15 RE
PERMITS 11/25/15 RE
BID SET 1/5/16 RE
100% DESIGN 6/21/16 RE
(REVISED)
BID SET 8/24/16 RE
(REVISED)
CONSTRUCTION 1/26/17 RE
JOB NO. VEN2018-01M

SHEET



NOTE:

THE FOLLOWING HOMES ARE CONNECTED TO THE EXISTING 3" WATER MAIN THAT IS TO BE ABANDONED:

- 626 HIBISCUS DR
- 518/520 VILLAS DR

CONTRACTOR SHALL PROVIDE NEW WATER SERVICES FROM EXISTING 6" WATER MAIN TO EXISTING METERS.

INDICATES PROPERTIES WHERE EXISTING WATER SERVICE IS TO BE CONNECTED TO EXISTING 6" WM.

INDICATES PROPERTIES WHERE WATER METER AND SERVICE LINE WILL BE RELOCATED

WATER SERVICE NOTE:
WHEN CONNECTING TO AN EXISTING METER, THE CONTRACTOR SHALL CONNECT THE NEW SERVICE LINE TO THE CUSTOMER SIDE.

WATER SERVICE NOTE:
CONTRACTOR SHALL COORDINATE WATER METER LOCATION AND NEW WATER SERVICE ROUTE ON PRIVATE PROPERTY WITH A CITY REPRESENTATIVE AND PROPERTY OWNER. CONTRACTOR SHALL CONSULT WATER METER RELOCATION AGREEMENT.

CITY OF VENICE, FLORIDA
PHASE 4
WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION
VILLAS DRIVE

ISSUED FOR: DATE: BY:
50% DESIGN 8/7/15 RB
100% DESIGN 10/2/15 RB
PERMITS 11/25/15 RB
BID SET 1/5/16 RB
100% DESIGN 6/21/16 RB
(REVISED)
BID SET 8/24/16 RB
(REVISED)

CONSTRUCTION 1/26/17 RB

JOB NO. VEN2018-01M

SHEET

C1.03

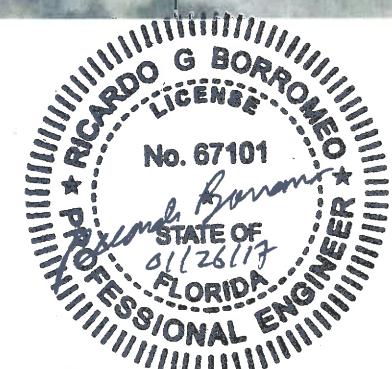
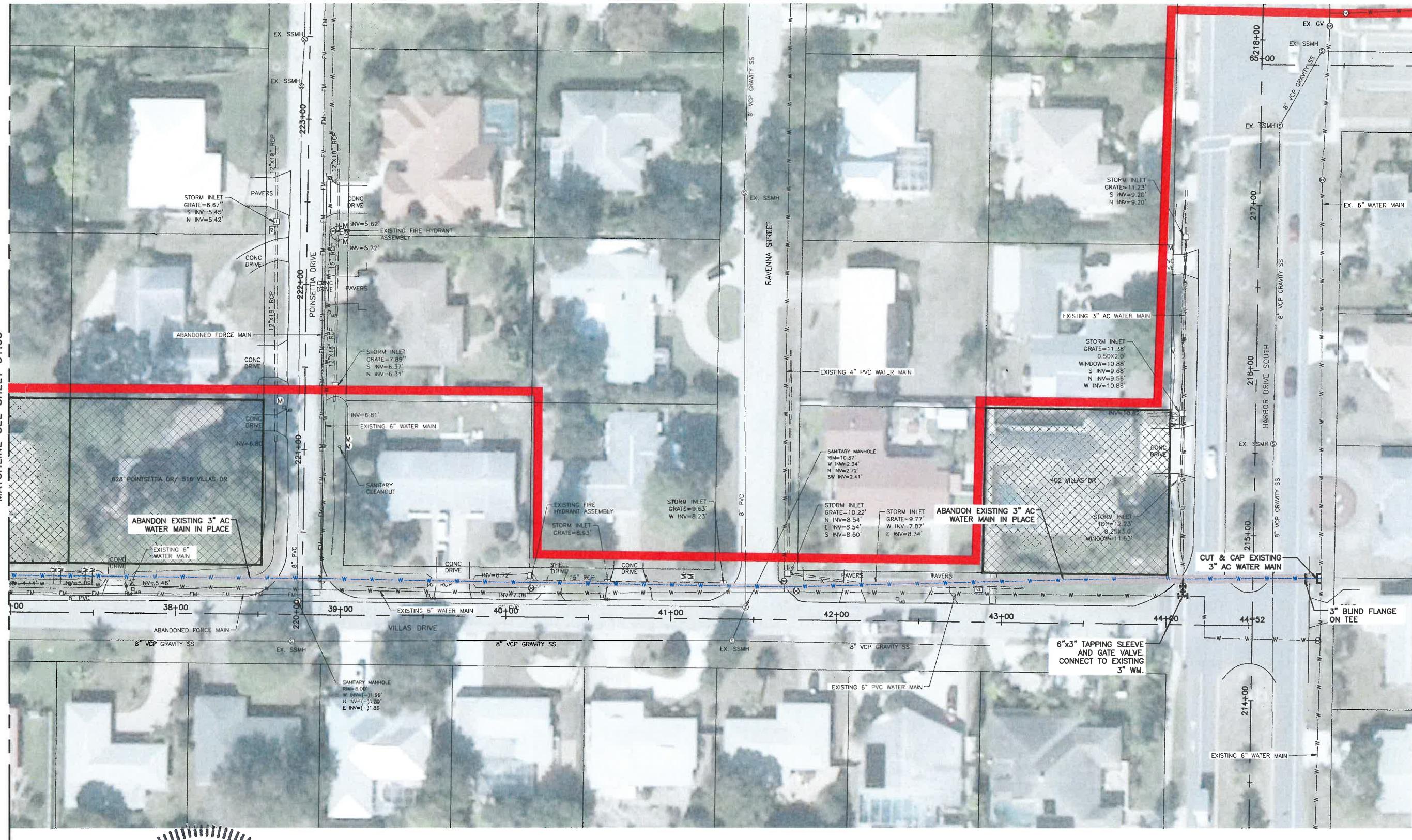
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FIELD BOOK INFORMATION -
FIELD BOOK INFORMATION -
C-1.03 TO C1.05 - PLOTTED 1/26/2017 10:23 AM BY DARBY KRISTIN

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UNLESS SIGNED AND DATED:

REV# DATE

DESCRIPTION



NO

THE FOLLOWING HOMES ARE CONNECTED TO THE
EXISTING 3" WATER MAIN THAT IS TO BE ABANDONED

- 628 POINSETTIA DR
- 516 VILLAS DR
- 518/520 VILLAS DR
- 402 VILLAS DR

CONTRACTOR SHALL PROVIDE NEW WATER SERVICES FROM EXISTING 6" WATER MAIN TO EXISTING METER

WATER SERVICE NO.

WHEN CONNECTING TO AN EXISTING METER, THE CONTRACTOR SHALL CONNECT THE NEW SERVICE LINE TO THE CUSTOMER SIDE

 INDICATES PROPERTIES WHERE EXISTING WATER SERVICE IS TO BE CONNECTED TO EXISTING 6" WM.

INDICATES PROPERTIES WHERE WATER METER
AND SERVICE LINE WILL BE RELOCATED

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NEW WATER SERVICE ROUTE ON PRIVATE PROPERTY WITH A CITY
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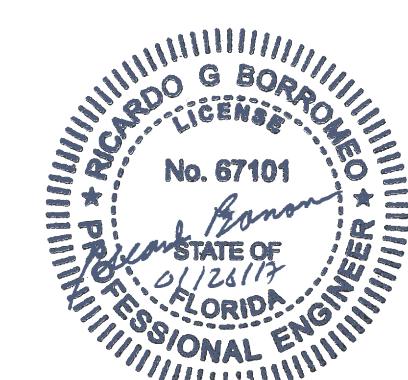
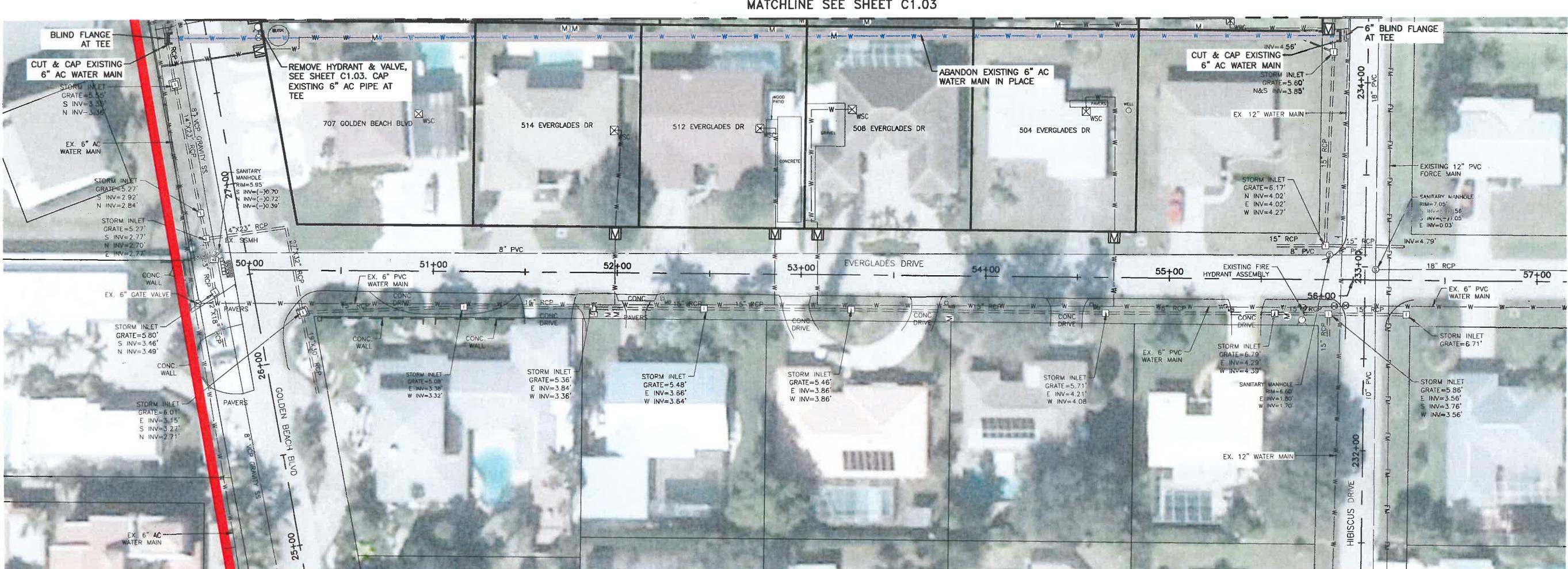
CITY OF VENICE, FLORIDA
WATER MAIN REPLACEMENT PROGRAM
PHASE 4
ISSUED FOR CONSTRUCTION
VILLAS DRIVE



ISSUED FOR: DATE: BY
50% DESIGN 8/7/15 RE
100% DESIGN 10/2/15 RE
PERMITS 11/25/15 RE
BID SET 1/5/16 RE
100% DESIGN 6/21/16 RE
(REVISED)
BID SET 8/24/16 RE
(REVISED)
CONSTRUCTION 1/26/17 RE
JOB NO.
VEN2018-01M

SHEET

C1.04

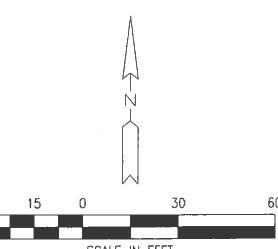


WATER SERVICE NOTE:
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C1.05

ISSUED FOR: DATE: BY:
50% DESIGN 8/7/15 RB
100% DESIGN 10/2/15 RB
PERMITS 11/25/15 RB
BID SET 1/5/16 RB
100% DESIGN (REVISED) 6/21/16 RB
CONSTRUCTION (REVISED) 8/24/16 RB
JOB NO. VEN2018-01M
SHEET

VENICE, FL
City on the Bay

WADE TRIM
801 Woodland Center Boulevard
Suite 200, Venice, FL 34594
Phone: 941.862.3822
Fax: 941.862.3822
Email: info@wadetrim.com
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CITY OF VENICE, FLORIDA
WATER MAIN REPLACEMENT PROGRAM
PHASE 4
ISSUED FOR CONSTRUCTION
EVERGLADES DRIVE
PHASE IV

| DESCRIPTION | DATE | REV# |
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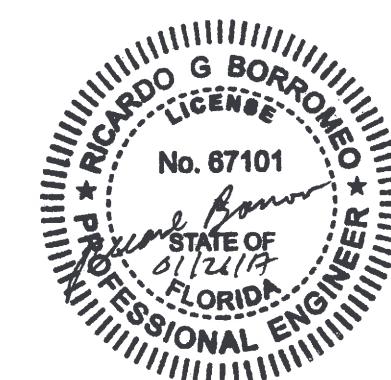
MATCHLINE SEE SHEET C1.08

| DESCRIPTION | REV# | DATE |
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| CITY OF VENICE, FLORIDA | WATER MAIN REPLACEMENT PROGRAM ISSUED FOR CONSTRUCTION SAN MARCO DRIVE |
|---|--|
|  | PHASE 4 |

| CONSTRUCTION 1/26/17 RB | | |
|-------------------------|-------------|-----|
| JOB NO. | VEN2018-01M | BY: |
| ISSUED FOR: | DATE: | BY: |
| 50% DESIGN | 8/7/15 | RB |
| 100% DESIGN | 10/2/15 | RB |
| PERMITS | 11/25/15 | RB |
| BID SET | 1/5/16 | RB |
| 100% DESIGN (REVISED) | 6/21/16 | RB |
| BID SET (REVISED) | 8/24/16 | RB |
| CONSTRUCTION | 8/24/16 | RB |
| JOB NO. | VEN2018-01M | BY: |
| SHEET | | |

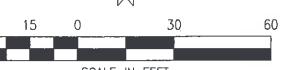


WATER SERVICE NOTE:
WHEN CONNECTING TO AN EXISTING METER, THE CONTRACTOR SHALL CONNECT THE NEW SERVICE LINE TO THE CUSTOMER SIDE.

INDICATES PROPERTIES WHERE EXISTING WATER SERVICE IS TO BE CONNECTED TO EXISTING 6" WM.

INDICATES PROPERTIES WHERE WATER METER AND SERVICE LINE WILL BE RELOCATED

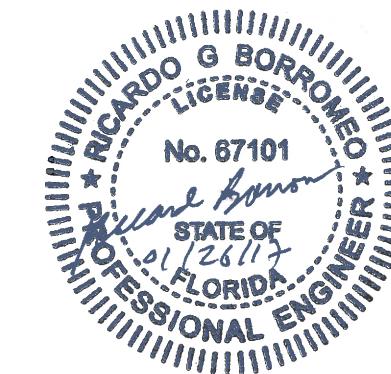
WATER SERVICE NOTE:
CONTRACTOR SHALL COORDINATE WATER METER LOCATION AND NEW WATER SERVICE ROUTE ON PRIVATE PROPERTY WITH A CITY REPRESENTATIVE AND PROPERTY OWNER. CONTRACTOR SHALL CONSULT WATER METER RELOCATION AGREEMENT.



C1.06



MATCHLINE SEE SHEET C1.09

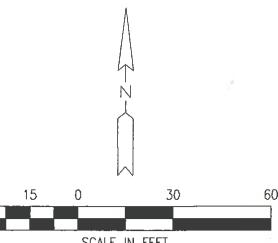


WATER SERVICE NOTE:
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**CITY OF VENICE, FLORIDA
PHASE 4
WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION
SAN MARCO DRIVE**

| | | |
|--------------------------|-------------|------------|
| ISSUED FOR: | DATE: | BY: |
| 50% DESIGN | 8/7/15 RB | |
| 100% DESIGN | 10/2/15 RB | |
| PERMITS | 11/25/15 RB | |
| BID SET | 1/5/16 RB | |
| 100% DESIGN (REVISED) | 6/21/16 RB | |
| BID SET (REVISED) | 8/24/16 RB | |
| CONSTRUCTION | | 1/26/17 RB |
| JOB NO. VEN2018-01M | | |
| SHEET | | |

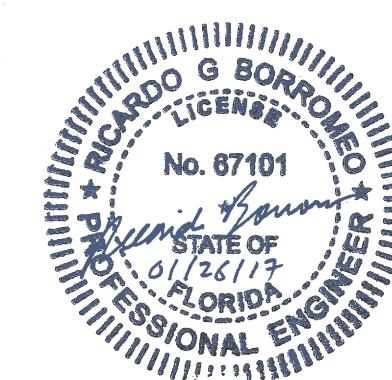
C1.07

FIELD BOOK INFORMATION:—
C1.00 BLOTTED 1/26/01 12:25 AM BY DARRY
VICTIN

MATCHLINE SEE SHEET C1 08

MATCHLINE SEE SHEET C1.07

MATCHLINE SEE SHEET C1.12

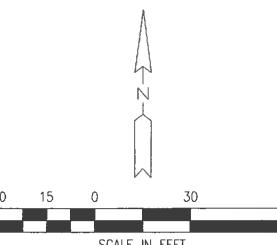


WATER SERVICE NOTE:
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SIDE.

 INDICATES PROPERTIES WHERE EXISTING WATER
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REPRESENTATIVE AND PROPERTY OWNER. CONTRACTOR SHALL
CONSULT WATER METER LOCATION AGREEMENT.



**CITY OF VENICE, FLORIDA
PHASE 4
INTER MAIN REPLACEMENT PROGR
ISSUED FOR CONSTRUCTION
NOKOMIS AVE S & THE RIALTO**

CITY OF VENICE, FLORIDA
PHASE 4
WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION
NOKOMIS AVE S & THE RIALTO



ISSUED FOR: DATE: BY
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PERMITS 11/25/15 RB
BID SET 1/5/16 RB
100% DESIGN 6/21/16 RB
(REVISED)
BID SET 8/24/16 RB
(REVISED)
CONSTRUCTION 1/26/17 RB
JOB NO. VEN2018-01M

SHEET

SHEET

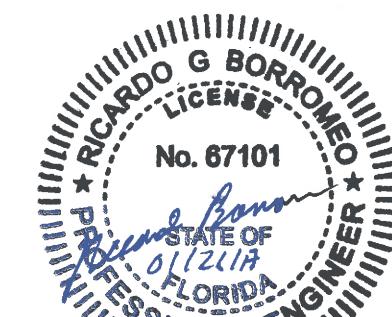
C1.09

□

□

PROJECT MANAGER: Holly Kremers P.E.
1000 HONDA NATIONAL DRIVE, SUITE 100
MILWAUKEE, WI 53201-3000
PHONE: (414) 765-1000
FAX: (414) 765-1001
E-MAIL: hkremers@honda.com

FIELD BOOK INFORMATION:-

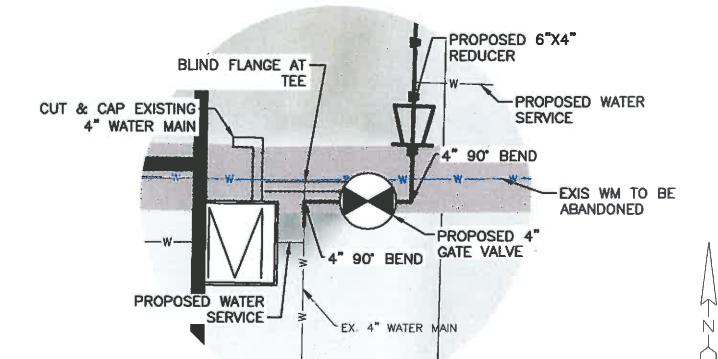


WATER SERVICE NOTE:
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DETAIL A

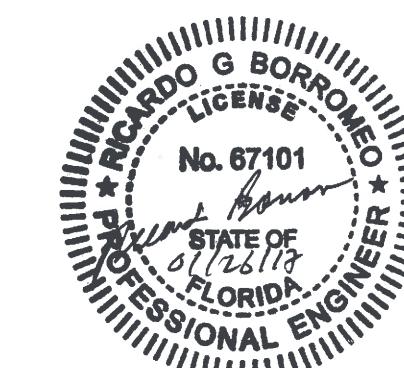
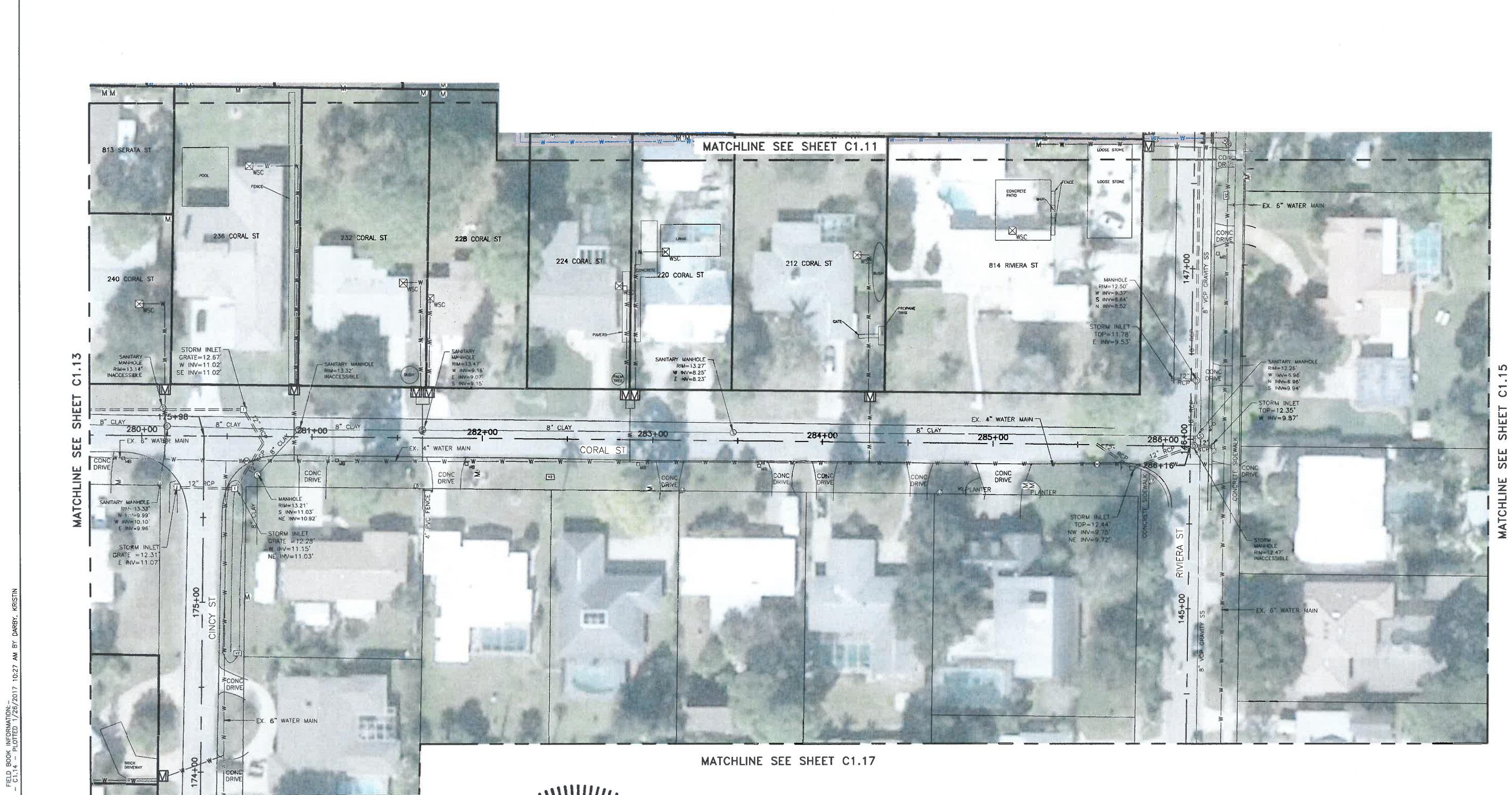
A scale bar for Figure 4, showing distances in feet. The bar is divided into segments of 15 feet each. The segments are labeled as follows: 0, 15, 0, 30, and 60. The segments are represented by alternating black and white squares.

**CITY OF VENICE, FLORIDA
PHASE 4
WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION
PIESOLE STREET**

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WADE TRIM
010 Woodland Center Boulevard
Suite 200, Tampa, FL 33614
813.882.4376 493.9624 FAX: 813.888.7749
Certificate of Authorization No.: 3952
www.wadetrim.com

111

.10

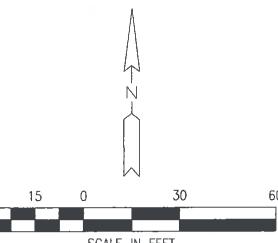


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INDICATES PROPERTIES WHERE EXISTING WATER
SERVICE IS TO BE CONNECTED TO EXISTING 6" WM.

INDICATES PROPERTIES WHERE WATER METER
AND SERVICE LINE WILL BE RELOCATED



C1.14

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VFNCF - FLORIDA WATERMAIN REPLACEMENT PROGRAM - PHASE IV
CONSTRUCTION 1/26/17 RB
JOB NO. VEN2018-01M
SHEET

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CITY OF VENICE, FLORIDA
PHASE 4
WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION
CORAL STREET
FIELD BOOK INFORMATION -
C1.14 - PLTS-VENICE C1.13 TO C1.15.DWG - C1.14 - PLOTTED 1/26/2017 10:27 AM BY DARBY, KRISTIN

MATCHLINE SEE SHEET C1.14



MATCHLINE SEE SHEET C1.18

MATCHLINE SEE SHEET C1.12



WATER SERVICE NOTE:
WHEN CONNECTING TO AN EXISTING METER, THE CONTRACTOR SHALL CONNECT THE NEW SERVICE LINE TO THE CUSTOMER SIDE.

GENERAL NOTES

821 NOKOMIS AVE S:
IF THE LABELED WSC ON PROPERTY CANNOT BE FOUND, THE CONTRACTOR SHALL CONNECT AT EXISTING METER.

INDICATES PROPERTIES WHERE EXISTING WATER SERVICE IS TO BE CONNECTED TO EXISTING 6" WM.

INDICATES PROPERTIES WHERE WATER METER AND SERVICE LINE WILL BE RELOCATED

WATER SERVICE NOTE:
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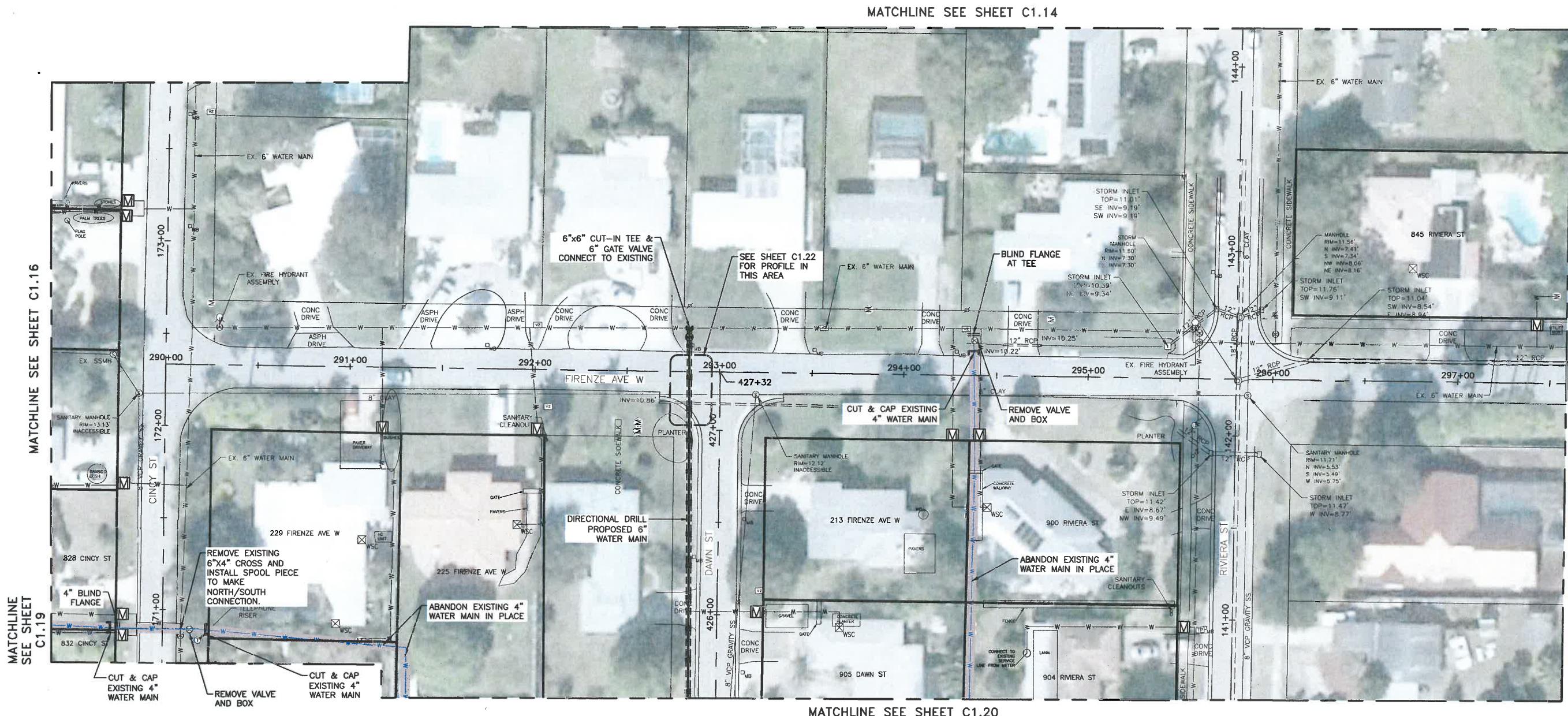
30 15 0 30 60
SCALE IN FEET

CITY OF VENICE, FLORIDA
WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION
NOOKOMIS AVE S & THE RIALTO
WATERMAIN REPLACEMENT PROGRAM - PHASE IV

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WATERMAIN REPLACEMENT PROGRAM - PHASE IV
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C1.15

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DESCRIPTION
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WATER SERVICE NOTE:
WHEN CONNECTING TO AN EXISTING METER, THE CONTRACTOR
SHALL CONNECT THE NEW SERVICE LINE TO THE CUSTOMER
SIDE.

WATER SERVICE NOTE:
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INDICATES PROPERTIES WHERE EXISTING WATER
SERVICE IS TO BE CONNECTED TO EXISTING 6" WM.

INDICATES PROPERTIES WHERE WATER METER
AND SERVICE LINE WILL BE RELOCATED

30 15 0 30 60
SCALE IN FEET

C1.17

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WATER MAIN REPLACEMENT PROGRAM
PHASE 4
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FIRENZE AVENUE

Venice, FL
City on the Gulf
ISSUED FOR: DATE: BY:
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100% DESIGN 10/2/15 RB
PERMITS 11/25/15 RB
BID SET 1/5/16 RB
100% DESIGN 6/21/16 RB
(REVISED)
BID SET (REVISED) 8/24/16 RB
CONSTRUCTION 1/26/17 RB
JOB NO. VEN2018-01M
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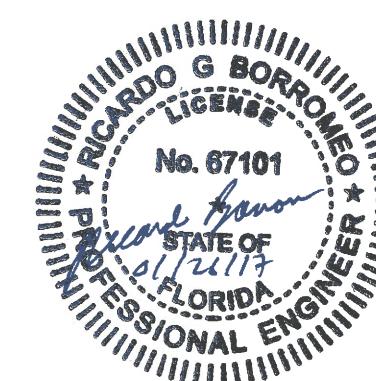
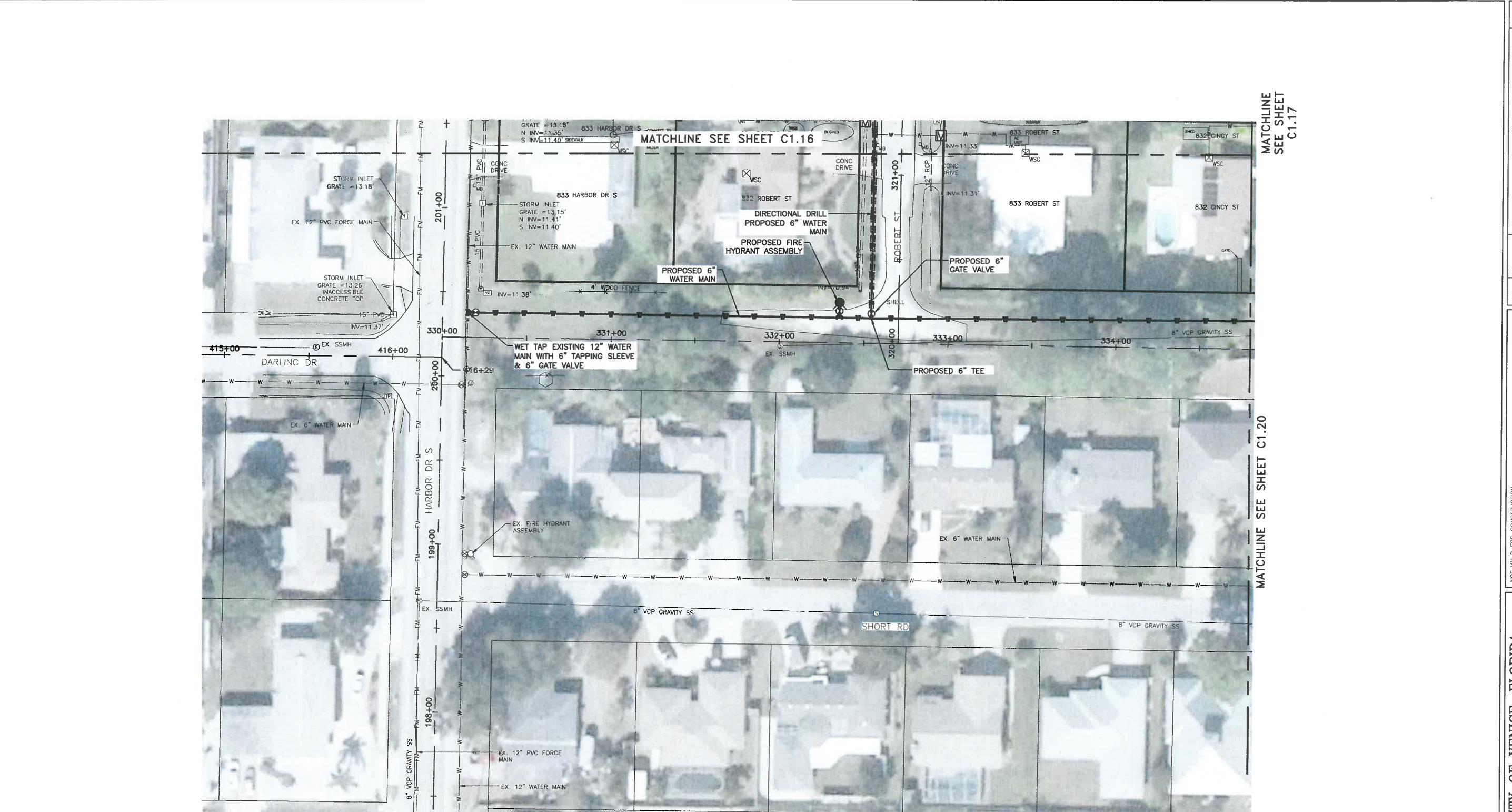
REVISION DATE:

DESCRIPTION

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DATE

BY

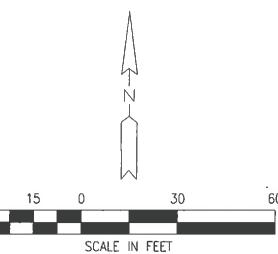


WATER SERVICE NOTE:
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INDICATES PROPERTIES WHERE WATER METER AND SERVICE LINE WILL BE RELOCATED



C1.19

| | | |
|-----------------------|-------------|-----|
| ISSUED FOR: | DATE: | BY: |
| 50% DESIGN | 8/7/15 | RB |
| 100% DESIGN | 10/2/15 | RB |
| PERMITS | 11/25/15 | RB |
| BID SET | 1/5/16 | RB |
| 100% DESIGN (REVISED) | 6/21/16 | RB |
| BID SET (REVISED) | 8/24/16 | RB |
| CONSTRUCTION | 1/26/17 | RB |
| JOB NO. | VEN2018-01M | |
| SHEET | | |

CITY OF VENICE, FLORIDA
PHASE 4
WATER MAIN REPLACEMENT PROGRAM
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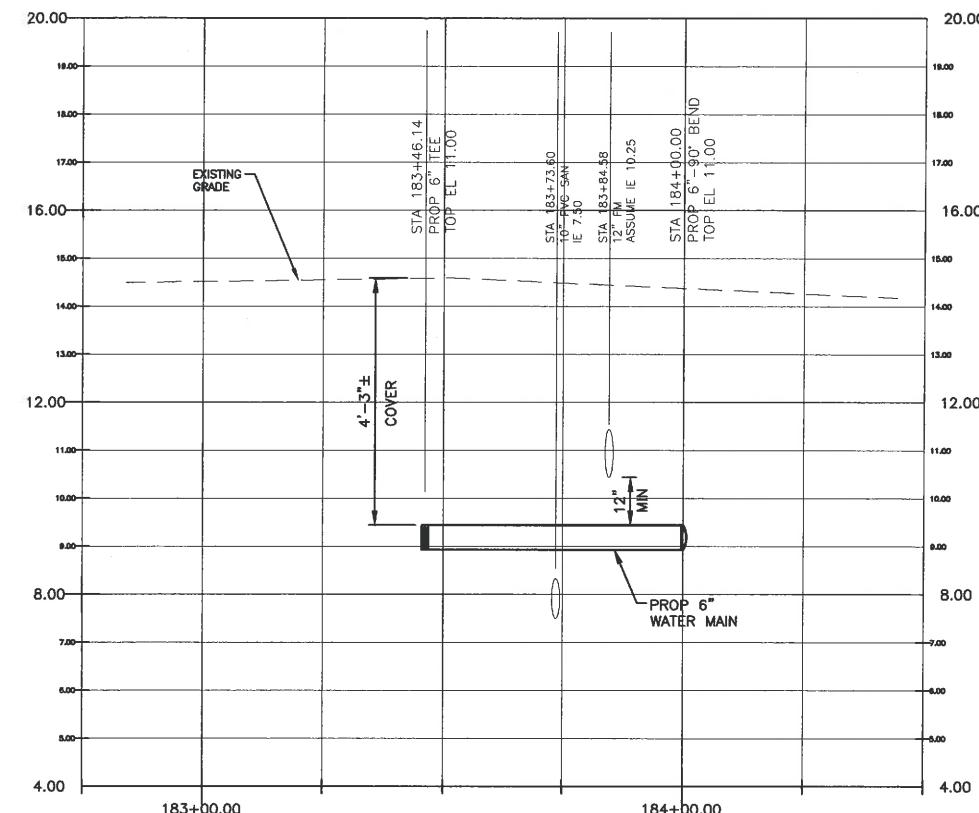
813.622.4373/868.8634

FAX: 813.588.7215

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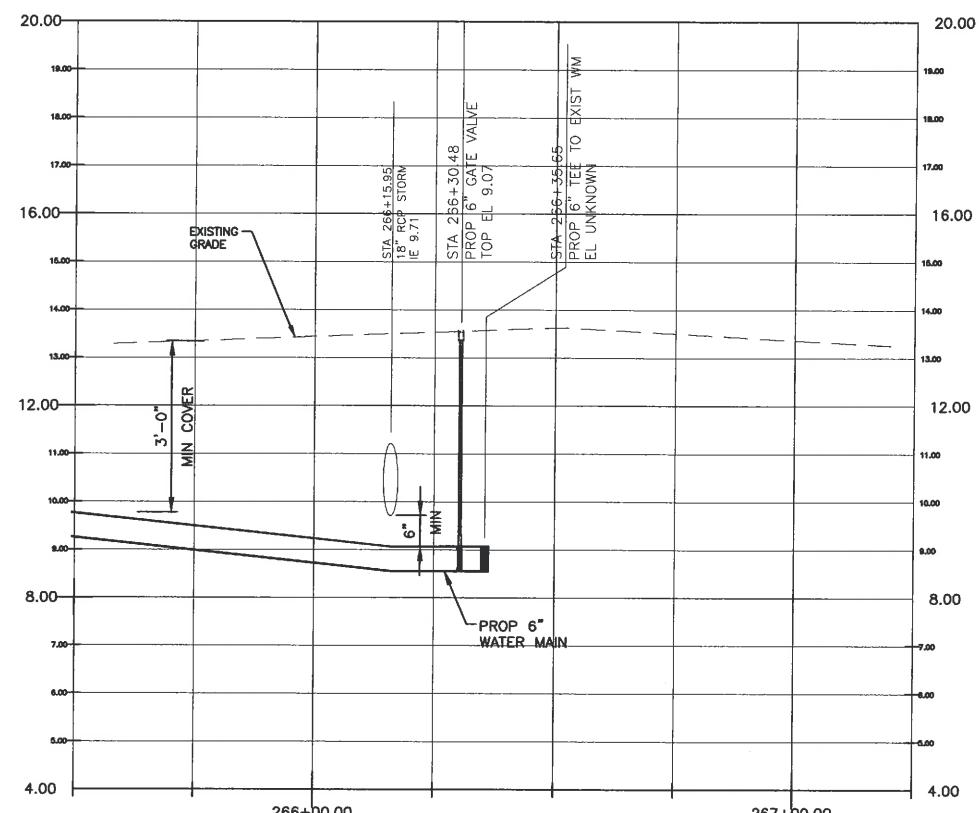
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UNLESS SIGNED AND DATED:

BY:



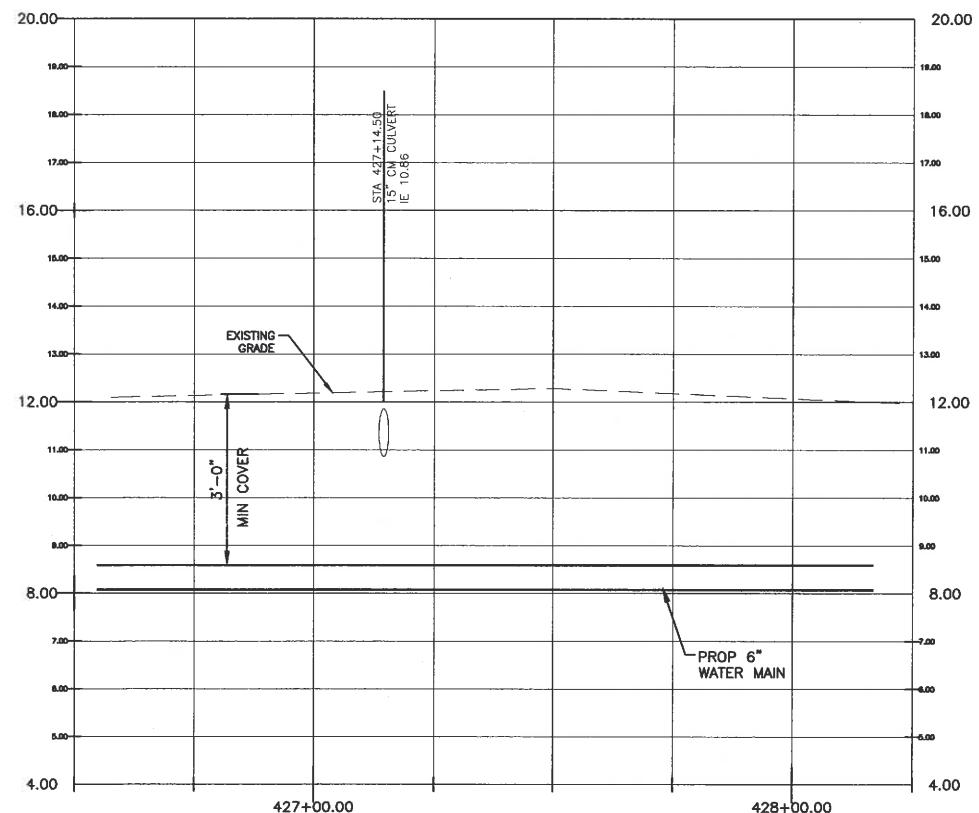
SERATA ST PROFILE AT FIESOLE ST

SCALE: 1:40 HORIZ
1:4 VERT



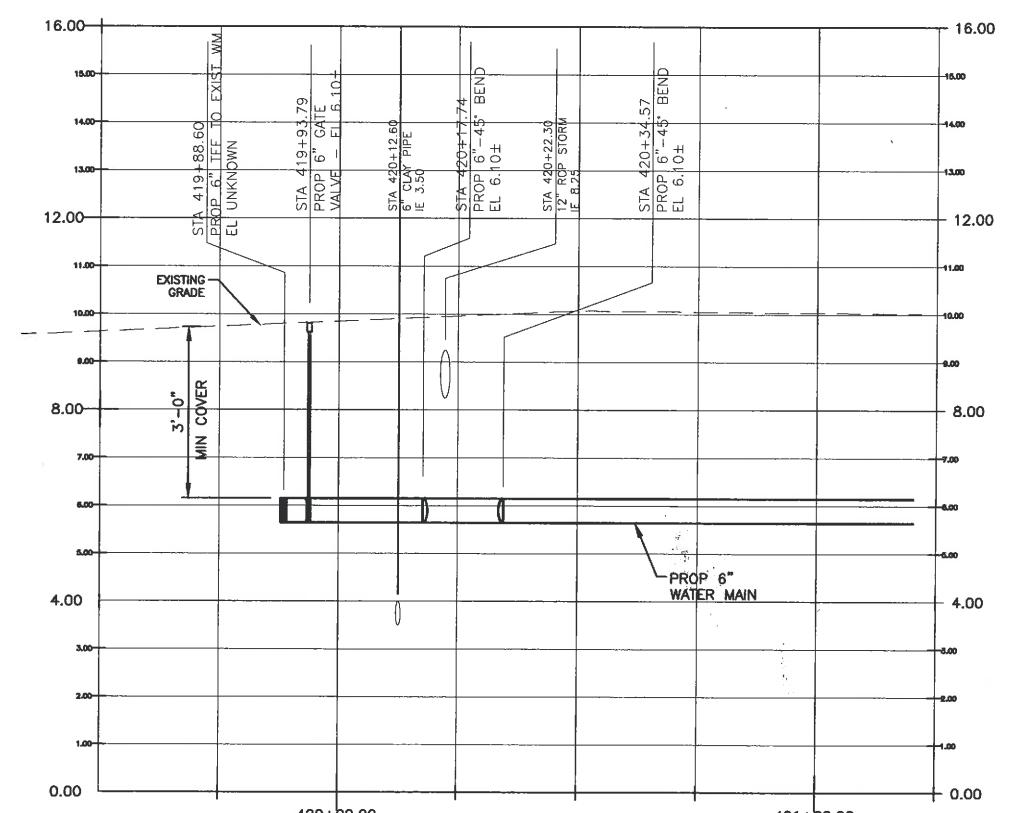
RIVIERA ST PROFILE AT FIESOLE ST

SCALE: 1:40 HORIZ
1:4 VERT



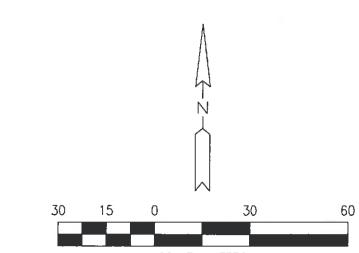
DAWN ST PROFILE AT FIRENZE ST

SCALE: 1:40 HORIZ
1:4 VERT



DAWN ST PROFILE AT THE CORSO

SCALE: 1:40 HORIZ
1:4 VERT



SCALE IN FEET

C1.22

CITY OF VENICE, FLORIDA
PHASE 4
WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION
MISCELLANEOUS PROFILES



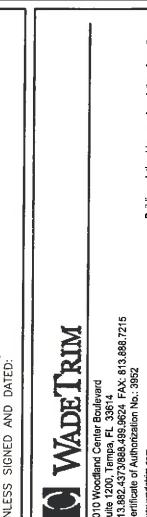
ISSUED FOR: DATE: BY:
50% DESIGN 8/7/15 RB
100% DESIGN 10/2/15 RB
PERMITS 11/25/15 RB
BID SET 1/5/16 RB
100% DESIGN 6/21/16 RB
(REVISED)
BID SET 8/24/16 RB
(REVISED)
CONSTRUCTION 1/26/17 RB

JOB NO.
VEN2018-01M

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C1.22

| REV# | DATE | DESCRIPTION |
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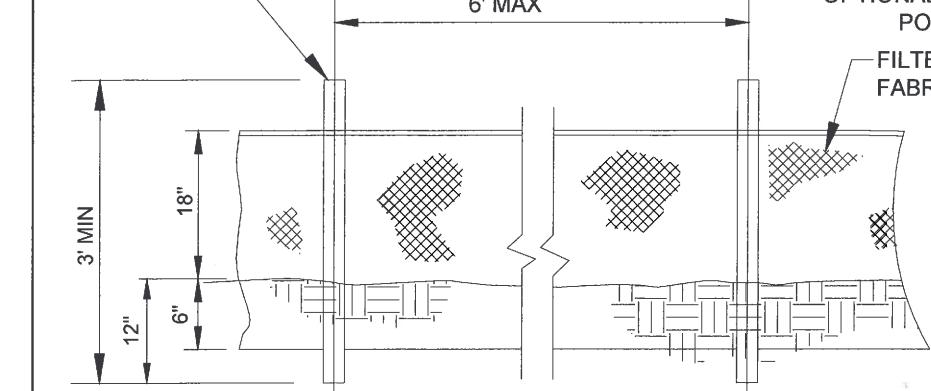
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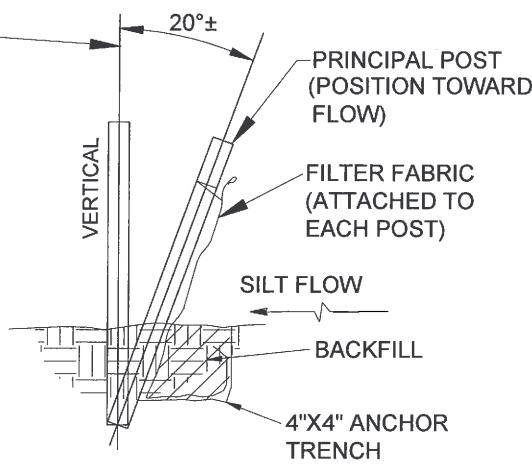
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PLAN

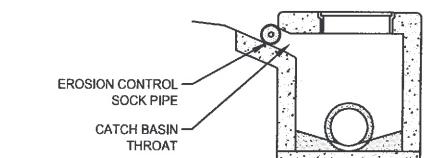
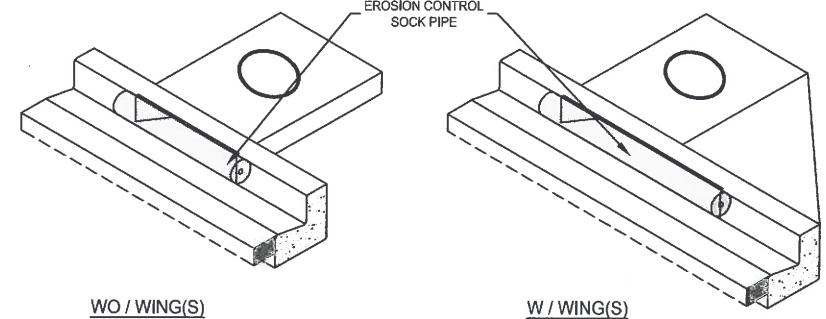


SECTION

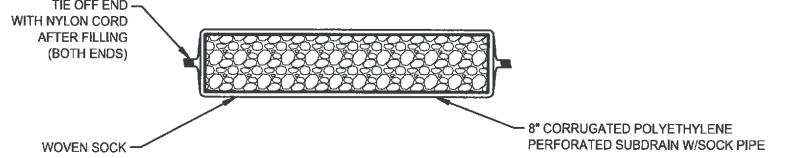
- 1.) POSTS SHALL BE WOOD (2"X4" OR 2 $\frac{1}{2}$ " DIA.) OR STEEL (MIN. 1.33 LBS/FT.).
- 2.) SILT FENCE SHALL BE PLACED PRIOR TO ANY EARTHMoving, EXCAVATION OR VEGETATION REMOVAL.
- 3.) CONTRACTOR IS RESPONSIBLE FOR MONITORING & MAINTAINING THE SILT FENCE IN GOOD CONDITION THROUGHOUT THE LIFE OF THE PROJECT.
- 4.) THE CITY ENGINEER OR HIS DESIGNEE MAY ISSUE A STOP WORK ORDER IN THE EVENT THAT SILT FENCE IS NOT BEING MAINTAINED OR IF SEDIMENT IS MIGRATING OFF-SITE.

SILT FENCE DETAIL

N.T.S.



SECTION



CURB INLET FILTER SOCK
SEDIMENTATION CONTROL

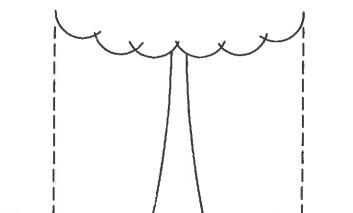


FIGURE A

THE DRIPLINE OF A TREE IS THE IMAGINARY, VERTICAL LINE THAT EXTENDS DOWNWARD FROM THE OUTERMOST TIPS OF THE TREE'S BRANCHES TO THE GROUND.

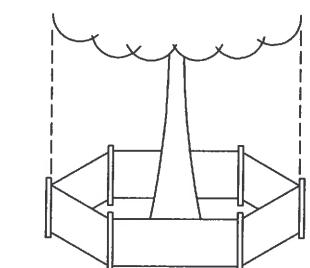


FIGURE B

FOUR CORNER UPRIGHT STAKES OF NO LESS THAN 2"X2" LUMBER CONNECTED BY HORIZONTAL MEMBERS OF NO LESS THAN 1"X4" LUMBER, OR UPRIGHT STAKES SPACED AT 5' INTERVALS OF NO LESS THAN 2"X2" LUMBER CONNECTED BY SILT SCREEN FABRIC OR MATERIAL OF COMPARABLE DURABILITY.

NOTE
DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON SITE.

TREE BARRICADE DETAIL

NOT VALID FOR CONSTRUCTION
UNLESS SIGNED AND DATED:
© Wade Trim

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Suite 1200, Suite 1200
813.942.4374, 866.932.9324, FAX: 813.888.7215
Certificate of Authorization No. 3652
www.wadetrim.com

CITY OF VENICE, FLORIDA
PHASE 4
WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION
EROSION AND SEDIMENTATION
CONTROL DETAILS

ISSUED FOR: DATE: BY:
50% DESIGN 8/7/15 RB
100% DESIGN 10/2/15 RB
PERMITS 11/25/15 RB
BID SET 1/5/16 RB
100% DESIGN 6/21/16 RB
(REVISED)
BID SET 8/24/16 RB
(REVISED)
CONSTRUCTION 1/26/17 RB
JOB NO. VEN2018-01M

SHEET
D1.00

| FITTING | PIPE SIZE (INCHES) | | | | | | | | | |
|---------------|--------------------|----|----|----|----|----|----|-----|----|--|
| | 4 | 6 | 8 | 10 | 12 | 16 | 18 | 20 | 24 | |
| 45 BEND: H | 6 | 9 | 12 | 14 | 16 | 21 | 23 | 25' | 29 | |
| VU | 4 | 6 | 7 | 9 | 10 | 13 | 15 | 16 | 19 | |
| VD | 12 | 20 | 26 | 32 | 37 | 48 | 53 | 28 | 68 | |
| 22.5 BEND: H | 3 | 4 | 6 | 7 | 8 | 10 | 11 | 12 | 14 | |
| VU | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | |
| VD | 7 | 10 | 13 | 15 | 18 | 23 | 26 | 28 | 33 | |
| 11.25 BEND: H | 2 | 2 | 3 | 3 | 4 | 5 | 5 | 6 | 7 | |

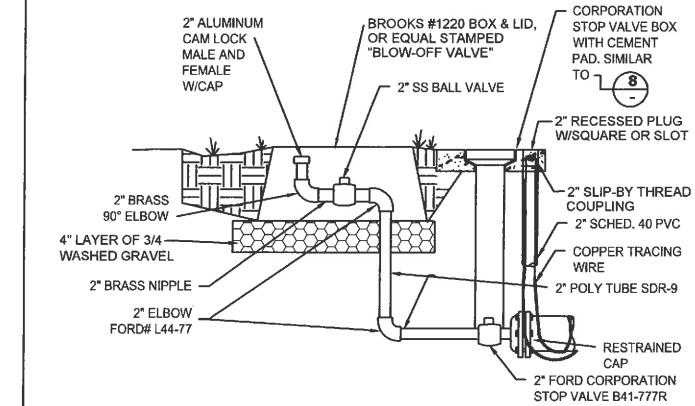
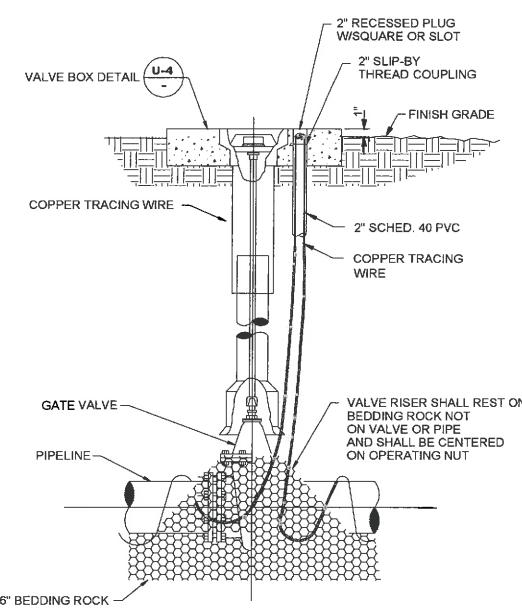
| FITTING | PIPE SIZE (INCHES) | | | | | | | | | |
|---------------|--------------------|----|----|-----|-----|-----|-----|-----|-----|--|
| | 4 | 6 | 8 | 10 | 12 | 16 | 18 | 20 | 24 | |
| 90 BEND: H | 23 | 33 | 43 | 51 | 60 | 76 | 83 | 90 | 104 | |
| 45 BEND: H | 10 | 14 | 18 | 21 | 25 | 31 | 34 | 37 | 43 | |
| VU | 6 | 8 | 11 | 13 | 16 | 20 | 22 | 24 | 28 | |
| VD | 22 | 30 | 40 | 48 | 56 | 72 | 80 | 87 | 102 | |
| 22.5 BEND: H | 5 | 7 | 8 | 10 | 12 | 15 | 17 | 18 | 21 | |
| VU | 3 | 4 | 5 | 6 | 7 | 10 | 11 | 12 | 14 | |
| VD | 10 | 15 | 19 | 23 | 27 | 35 | 38 | 42 | 49 | |
| 11.25 BEND: H | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| PLUGS: | 52 | 73 | 96 | 115 | 136 | 174 | 193 | 211 | 246 | |

ABBREVIATIONS: H=HORIZONTAL, VU=VERTICAL UP, VD=VERTICAL DOWN.

- 1.) FOR TEE OR REDUCER FITTINGS SUBMIT RESTRAINED JOINT LENGTH CALCULATIONS TO CITY ENGINEER FOR REVIEW AND APPROVAL, USING THE ASSUMPTIONS LISTED ABOVE.
- 2.) RESTRAINED JOINT LENGTH FOR WATER AND REUSE MAINS BASED ON TEST PRESSURE OF 150 PSI. RESTRAINED JOINT LENGTH FOR FORCE (SEWER) MAINS BASED ON TEST PRESSURE OF 100 PSI. CALCULATIONS WERE MADE USING EBAA IRON SOFTWARE (AVAILABLE AT WWW.EBAA.COM) AND THE FOLLOWING ASSUMPTIONS: GRANULAR MATERIAL (GM) SOIL TYPE, TRENCH TYPE 3, BURY DEPTH OF 3 FT, AND SAFETY FACTOR OF 2 TO 1. IF FIELD CONDITIONS DIFFER FROM ABOVE ASSUMPTIONS, CEE SHALL PROVIDE CALCULATIONS BASED ON ACTUAL CONDITIONS.
- 3.) RESTRAINED JOINT SHALL BE USED ON ALL JOINTS FROM ANY MAIN TEE TO ANY FIRE HYDRANT ASSEMBLY.
- 4.) THRUST BLOCKS WILL NOT BE ACCEPTED, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

PRESSURE MAIN RESTRAINED JOINT TABLE

N.T.S.



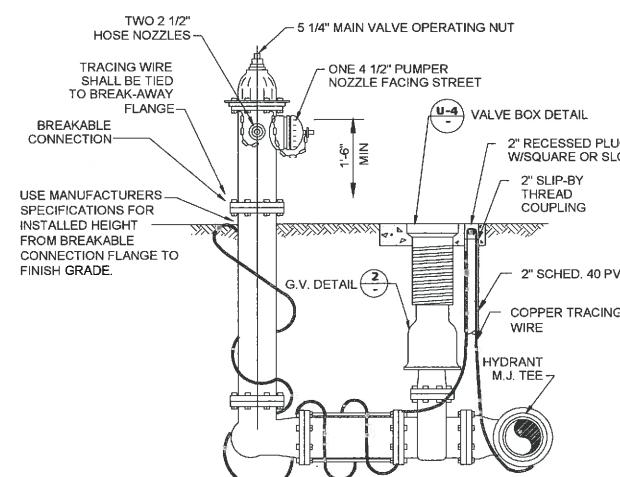
NOTES:

- 1.) GATE VALVES SHALL BE RESILIENT WEDGE-TYPE MANUFACTURED BY MUELLER, AMERICAN VALVE, OR EQUAL. ALL GATE VALVES SHALL BE FUSION BONDED EPOXY COATED (INTERIOR AND EXTERIOR) MEET ANSI/AWWA C550, AND BE NSF61 CERTIFIED.
- 2.) FOR VALVES LARGER THAN 12" USE BUTTERFLY STYLE VALVE.
- 3.) VALVE SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 4.) COPPERHEAD TRACING WIRE PART #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES. (BLUE = WATER, PURPLE = REUSE)

GATE VALVE DETAIL (WATER AND REUSE ONLY)

N.T.S.

7 DEAD-END BLOW-OFF DETAIL (PERMANENT)



NOTES:

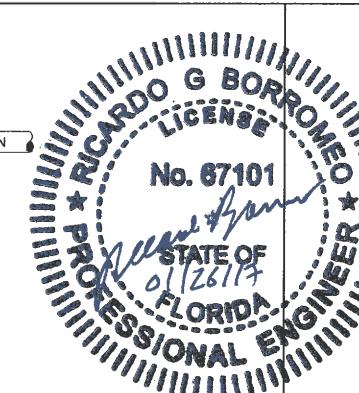
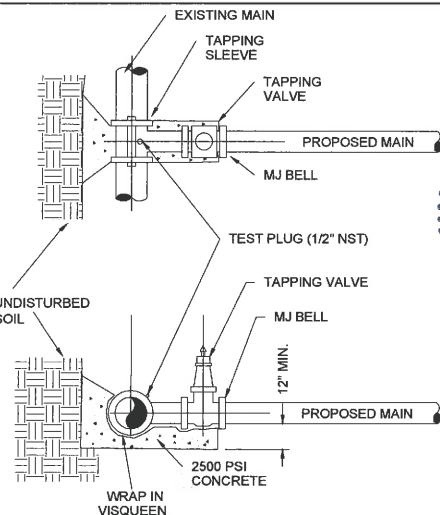
- 1.) POTABLE WATER FIRE HYDRANTS SHALL BE PAINTED "SAFETY YELLOW".
- 2.) REUSE FIRE HYDRANTS SHALL BE PAINTED PANTONE PURPLE 522C AND TAGGED WITH A PERMANENT LABEL "RECLAIMED WATER-DO NOT DRINK."
- 3.) HYDRANT SHALL BE MUELLER SUPER CENTURIAN MODEL A423, AMERICAN B84BV WITH BREAK-AWAY FEATURE. ALL BOLTS SHALL BE SS (BONNET, SAFETY FLANGE, SHOE).
- 4.) RESTRAINED JOINTS SHALL BE USED BETWEEN TEE AND HYDRANT.
- 5.) HYDRANTS SHALL HAVE "OUT OF SERVICE" TAGS AND BE BAGGED UNTIL MAINS PASS.
- 6.) ALL WEEP HOLES SHALL BE PLUGGED.
- 7.) HYDRANT LOCATED AT LEAST 3' OR MORE FROM ANY STORM WATER PIPE OR DITCH AND AT LEAST 6' OR MORE FROM ANY SANITARY SEWER STRUCTURE.
- 8.) FOR CLEARANCE ISSUES, PLEASE REFER TO CURRENT FLORIDA FIRE PREVENTION CODE REQUIREMENTS.
- 9.) COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES. (BLUE = WATER, GREEN = SEWER, PURPLE = REUSE)
- 10.) FIRE HYDRANT ASSEMBLY SHALL BE BEDDED IN 8" OF CRUSHED SHELL.
- 11.) FIRE HYDRANT ASSEMBLY INCLUDES GATE VALVE.

FIRE HYDRANT ASSEMBLY DETAIL

N.T.S.

TAPPING SLEEVE & VALVE DETAIL

N.T.S.



VALVE SIZE (I.E. 8)
TYPE (G)
SERVICE (REUSE)
DIRECTION & # OF TURNS TO OPEN (I.E. L-10)

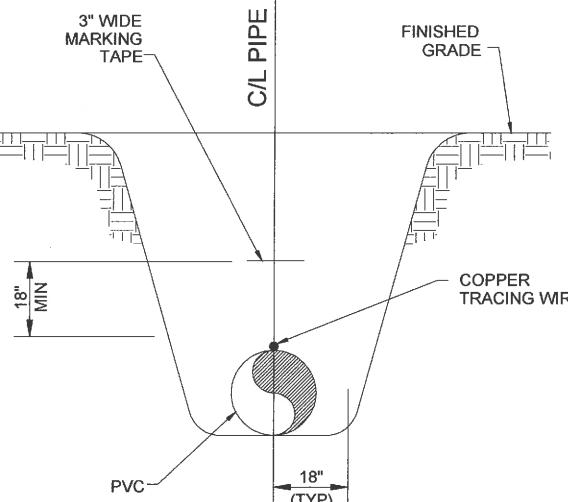
STATE OF FLORIDA

PROFESSIONAL ENGINEER

RECORDED & INDEXED

1/26/17

RECORDED & INDEXED



| MARKING TAPE AND MESSAGES | | |
|---------------------------|------------|--|
| PIPE | TAPE COLOR | MESSAGE |
| PVC STORM WATER | WHITE | CAUTION STORM WATER OR STORM DRAIN BELOW |
| POTABLE WATER MAIN | BLUE | CAUTION POTABLE WATER MAIN BELOW |
| REUSE WATER MAIN | PURPLE | CAUTION REUSE WATER MAIN BELOW |
| SEWER FORCE MAIN | GREEN | CAUTION SEWER FORCE MAIN BELOW |
| SEWER & SERVICE LATERALS | GREEN | CAUTION SEWER MAIN BELOW |

1. COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE ATTACHED TO TOP OF PIPE AT 20' INTERVALS ON ALL RECLAIMED WATER, FORCE, OR POTABLE WATER MAINS. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES. (BLUE = WATER, GREEN = SEWER, PURPLE = REUSE)
- 2.) MINIMUM COVER SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE. MAXIMUM COVER SHALL BE 42" FROM FINISHED GRADE UNLESS OTHERWISE APPROVED.
- 3.) INSTALLATION OF PIPE SHALL BE IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 4.) PAVEMENT RESTORATION SHALL CONFORM WITH DETAIL ENG-2 OF THESE CITY STANDARDS.
- 5.) CONFLICTS - UTILIZE 45° BENDS WITH SEPARATION AS PER CITY DETAILS.
- 6.) ALL UTILITIES (PUBLIC & PRIVATE) THAT CROSS A DITCH/SWALE SHALL BE 36" MIN. BELOW THE ACTUAL/DESIGN BOTTOM OF CONVEYANCE.

PIPE TRENCH DETAIL

N.T.S.

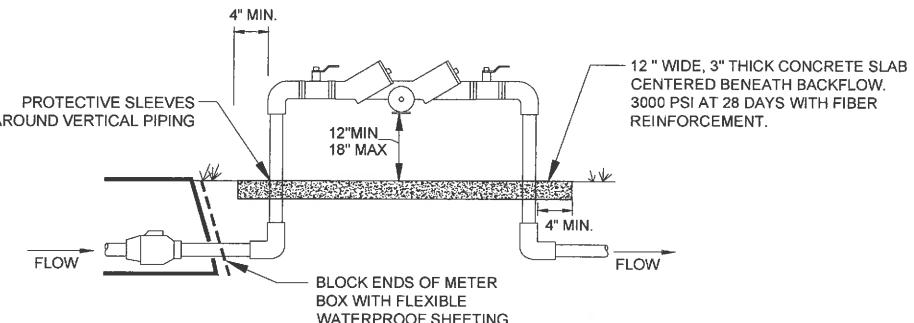
| SERVICE | COLOR | MATERIAL/CLASS |
|---------------------------------------|--------|---|
| POTABLE WATER MAIN | BLUE | |
| RAW WATER MAIN | WHITE | |
| REUSE MAIN | PURPLE | |
| FORCE MAIN (MIN. 4" DIAMETER) | GREEN | AWWA C900 PVC / DR 18 FUSIBLE C900 PVC / DR 18 HDPE PPI PE 3408 / DR 11 (DUCTILE IRON PIPE SIZE) |
| WATER SERVICE | BLUE | PE (POLYTUBING) / DR 9 |
| REUSE SERVICE | PURPLE | PE (POLYTUBING) / DR 9 |
| GRAVITY SEWER MAIN (MIN. 8" DIAMETER) | GREEN | ASTMD3034 / SDR 26 FUSIBLE PVC / SDR 26 |
| SEWER LATERAL (MIN. 6" DIAMETER) | GREEN | ASTMD3034 / SDR 26 / SDR 35 / SCH 40 PVC |

PIPE MATERIAL SCHEDULE

N.T.S.

1. A DRILLING BORE LOG SHALL BE SUBMITTED WITHIN SEVEN (7) DAYS OF PERFORMING THE BORE. DEPTHS SHALL BE RECORDED AT A MAXIMUM OF EVERY TEN (10) FEET. RECORD DRAWINGS SHALL INDICATE ELEVATIONS.
2. ALL DBs SHALL BE HIGH-DENSITY POLYETHYLENE (HDPE) WITH DR-11 MINIMUM OR EQUAL.
3. PIPE SHALL BE COLOR-CODED BY THE PIPE MANUFACTURED DURING FABRICATION INDICATING APPROPRIATE SERVICE.
4. AIR RELEASE VALVES SHALL BE INSTALLED ON THE UPSTREAM SIDE OF THE BORE.
5. WELDED MJ ADAPTERS ARE REQUIRED AT BOTH ENDS OF THE BORE. ONLY STAINLESS STEEL INSERT STIFFENERS WILL BE ACCEPTABLE.
6. TRACE WIRES REQUIRED. SECURE TO PIPE PRIOR TO PULLING.
7. ISOLATION VALVE SHALL BE INSTALLED ON BOTH SIDES OF DIRECTIONAL BORE.
8. DIRECTIONAL BORING MUST BE COMPLETED BETWEEN THE HOURS OF 8:00 A.M. AND 3:00 P.M.
9. ALL D.B.'S CROSSING A DITCH/SWALE MUST BE AT LEAST 36" BELOW ACTUAL/DESIGN BOTTOM OF CONVEYANCE.
10. STORMWATER DRAINAGE FACILITIES ARE NOT CONSIDERED UNDERGROUND FACILITIES BY FLORIDA STATUTE AND THEREFORE WILL NOT BE LOCATED AND MARKED BY THE FLORIDA STATE ONE CALL SYSTEM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AVOID ALL STORMWATER DRAINAGE FACILITIES AND THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES RESULTING FROM THE DIRECTIONAL BORE WORK.

DIRECTIONAL BORING (DB)



- 1.) BACKFLOW PREVENTION ASSEMBLY TYPE SHALL BE DETERMINED BY THE CITY OF VENICE UTILITIES DEPARTMENT'S MOST CURRENT CROSS-CONNECTION CONTROL PROGRAM.
- 2.) ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH AND/OR ASSE 1013.
- 3.) ALL ABOVE GROUND PIPING SHALL BE RIGID COPPER.
- 4.) THE WATER METER AND BACKFLOW PREVENTER SHALL BE THE SAME SIZE.
- 5.) INSTALLED IMMEDIATELY AFTER THE UTILITY WATER METER UNLESS OTHERWISE APPROVED BY THE CITY OF VENICE UTILITIES DEPARTMENT.
- 6.) NO BRANCH OR TEE CONNECTIONS SHALL EXIST BETWEEN THE WATER METER AND BACKFLOW PREVENTER.

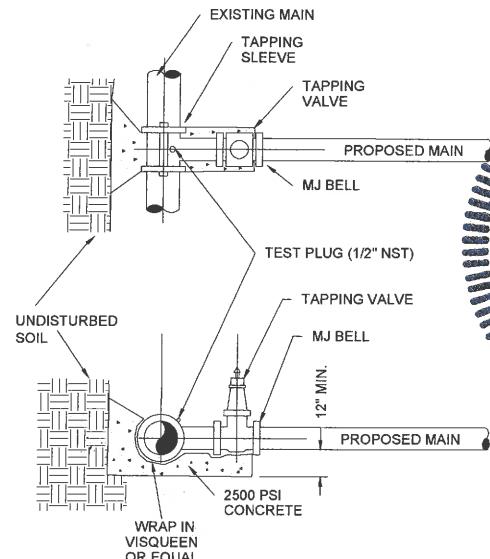
BACKFLOW PREVENTION ASSEMBLY (RESIDENTIAL, NOT MASTER METERED)

N.T.S.

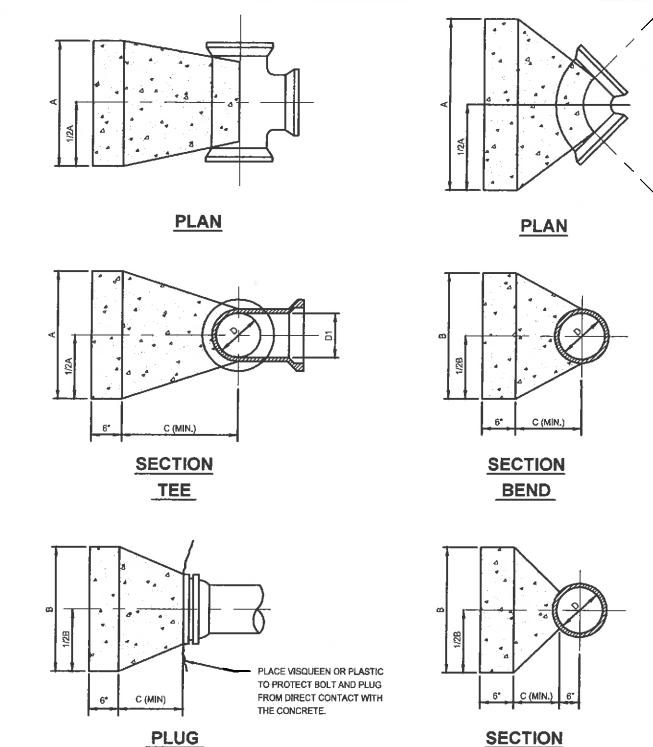
| DIAMETER OF PIPE D | 90° BEND | | | 45° BEND | | | 22-1/2° BEND | | | 11-1/4° BEND | | | PLUG | | |
|--------------------|----------|------|-----|----------|------|-----|--------------|------|-----|--------------|------|------|------|------|-----|
| | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C |
| 6" | 2'0" | 18" | 9" | 18" | 12" | 15" | 21" | 12" | 12" | 21" | 12" | 18" | 18" | 18" | 9" |
| 8" | 2'9" | 2'0" | 12" | 20" | 15" | 15" | 21" | 12" | 12" | 21" | 12" | 20" | 20" | 12" | |
| 10" & 12" | 4'0" | 3'0" | 15" | 3'3" | 3'0" | 18" | 2'0" | 3'0" | 15" | 3'0" | 15" | 3'0" | 3'0" | 15" | |
| 14" | 5'0" | 3'6" | 18" | 3'6" | 3'6" | 18" | 2'6" | 3'6" | 18" | 3'6" | 18" | 3'6" | 3'6" | 18" | |
| 16" & 18" | 5'6" | 4'0" | 18" | 4'0" | 4'0" | 21" | 3'0" | 4'0" | 18" | 2'0" | 4'0" | 18" | 4'0" | 4'0" | 18" |
| 20" | 7'0" | 4'0" | 21" | 7'0" | 4'0" | 21" | 3'9" | 4'0" | 21" | 2'6" | 4'0" | 21" | 6'0" | 4'0" | 21" |
| 24" | 8'0" | 5'0" | 24" | 8'0" | 5'0" | 24" | 4'0" | 5'0" | 24" | 2'9" | 5'0" | 24" | 7'0" | 5'0" | 24" |

NOTE:
THRUST BLOCKS WILL NOT BE ACCEPTED, UNLESS OTHERWISE NOTED ON PLANS AND APPROVED BY THE CITY ENGINEER.

STANDARD THRUST BLOCKS



THRUST BLOCK DETAILS NO SCALE



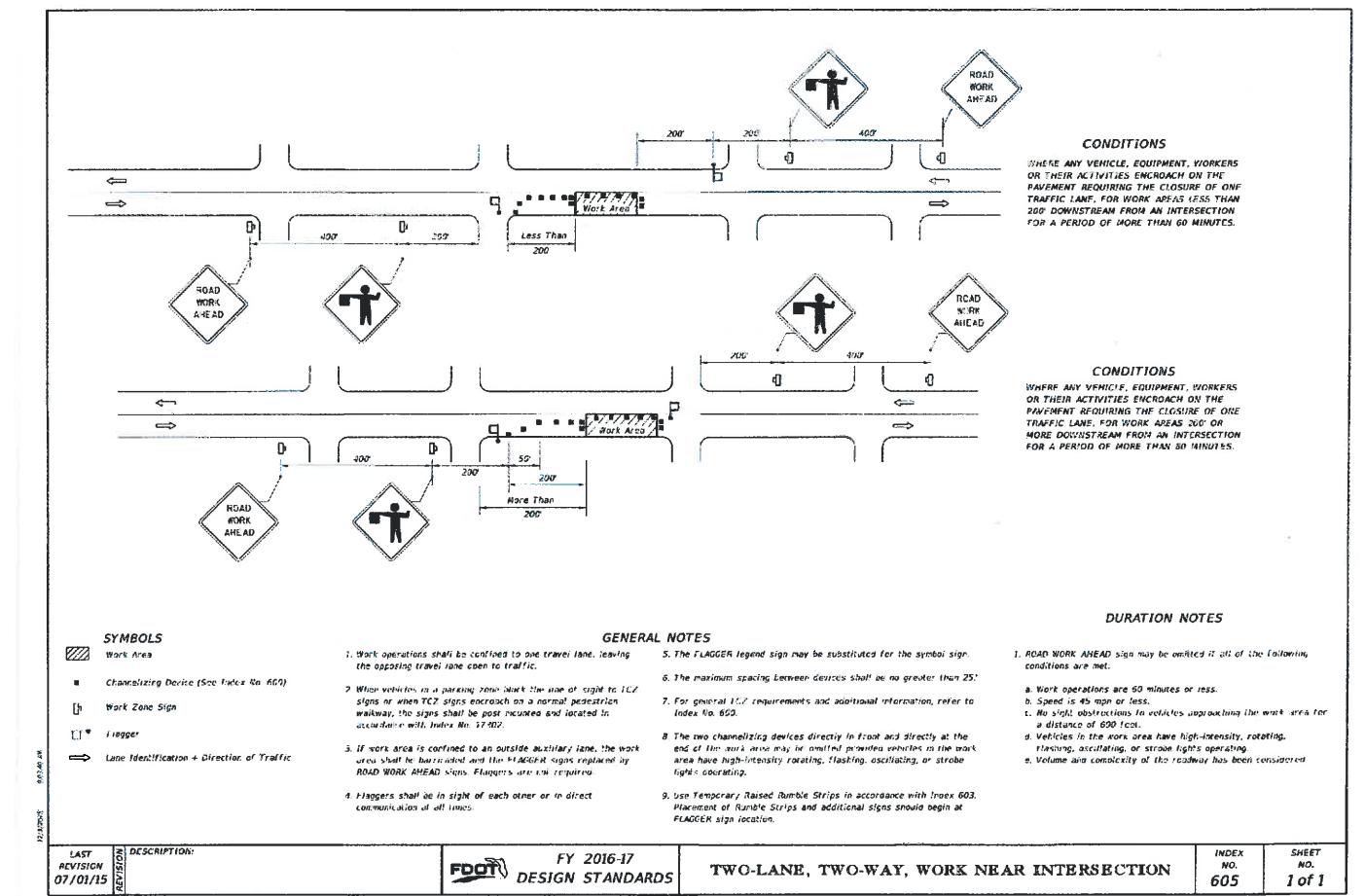
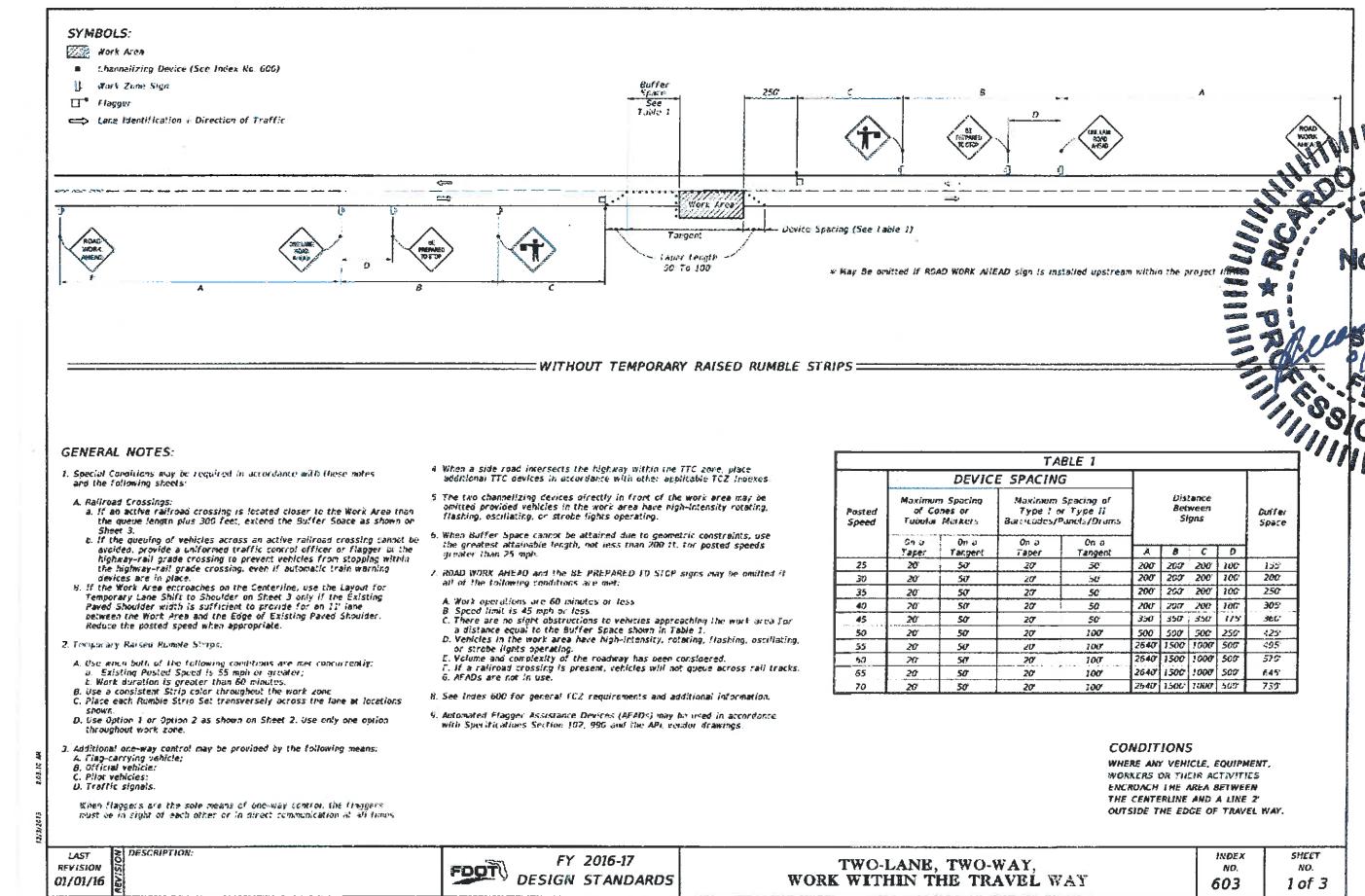
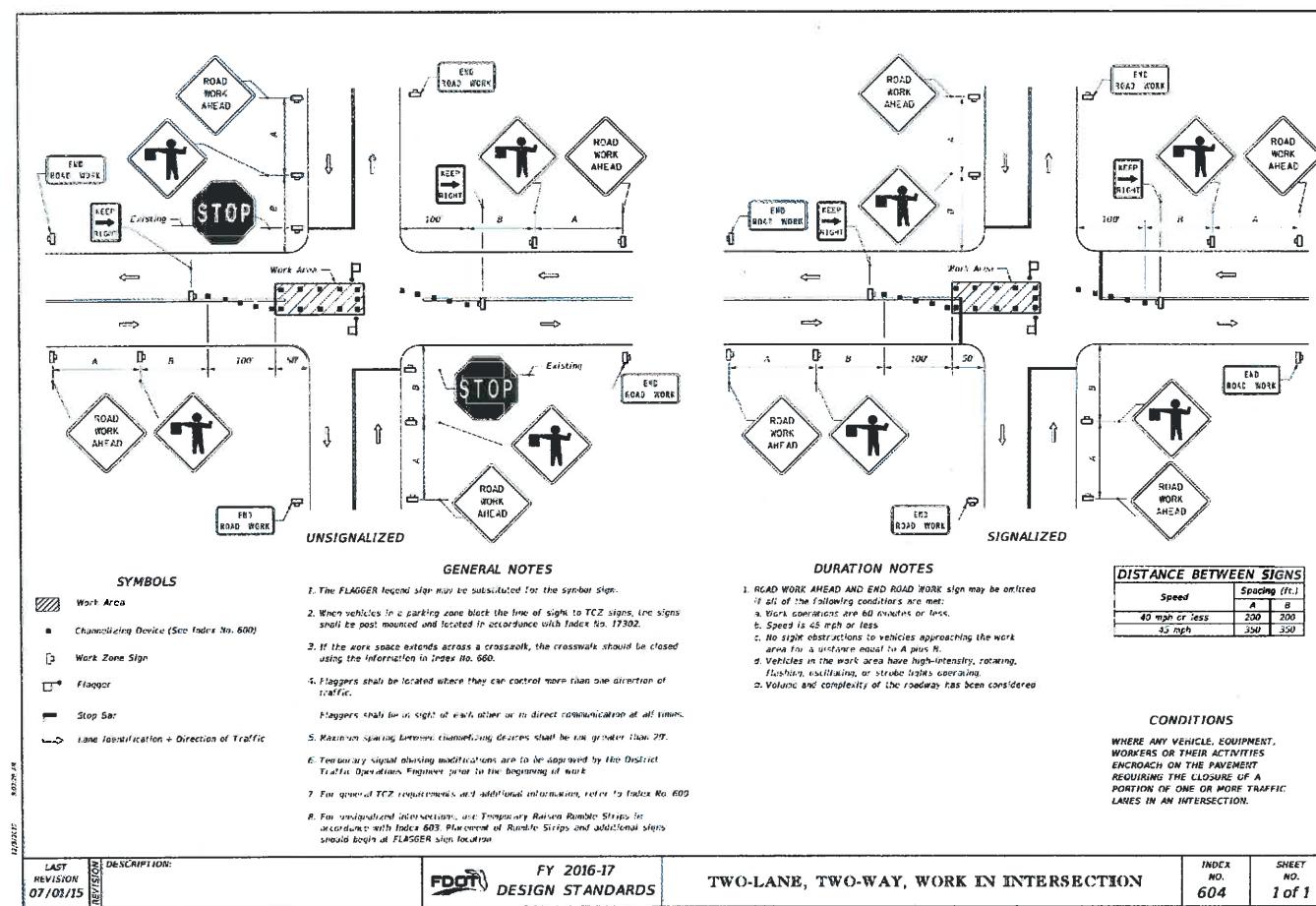
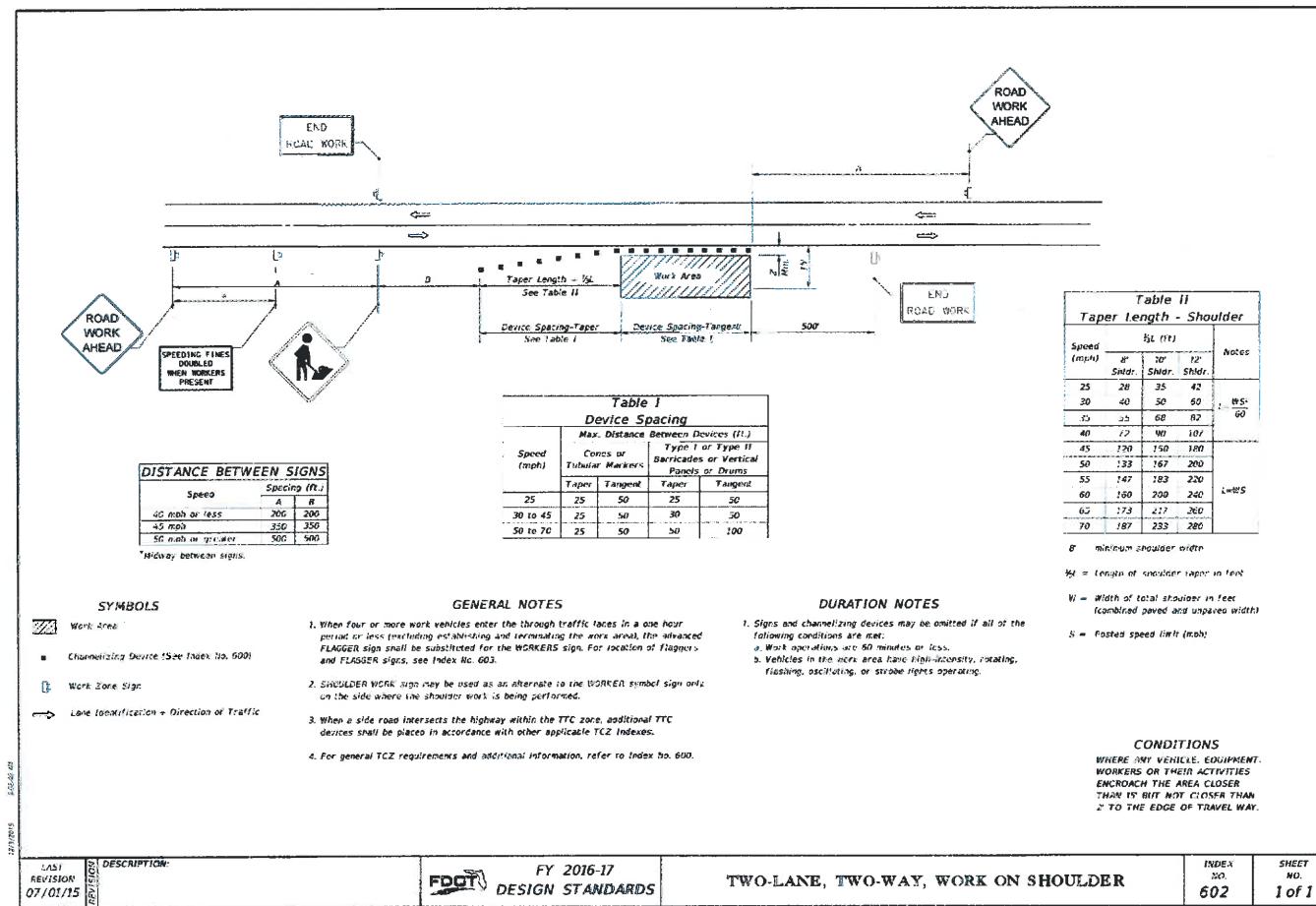
| | | | |
|------------------|------|----------------|-----------------------|
| BY | | RICARDO G BORR | LICENSE NO. 67101 |
| STATE OF FLORIDA | | FLORIDA | PROFESSIONAL ENGINEER |
| REV# | DATE | DESCRIPTION | |

| |
|--|
| NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED: |
| WADE TRIM |
| 8010 Woodland Center Boulevard Suite 1200, Tampa, FL 33614 813.982.4373/988.5634/Fax: 913.988.7215 www.wadetrim.com |

| |
|---|
| CITY OF VENICE, FLORIDA PHASE 4 WATER MAIN REPLACEMENT PROGRAM ISSUED FOR CONSTRUCTION PORTABLE WATER DETAILS |
|---|

| |
|---|
| ISSUED FOR: DATE: BY: 50% DESIGN 8/7/15 RB 100% DESIGN 10/2/15 RB PERMITS 11/25/15 RB BID SET 1/5/16 RB 100% DESIGN 6/21/16 RB (REVISED) BID SET 8/24/16 RB (REVISED) |
| CONSTRUCTION 1/26/17 RB JOB NO. VEN2018-01M |
| © Wade Trim Group, Inc. VENICE, FLORIDA WATERMAIN REPLACEMENT PROGRAM - PHASE IV SHEET |

D1.03



NOTE:
CONTRACTOR SHALL REFERENCE THE LATEST EDITION OF
THE FDOT ROADWAY DESIGN STANDARDS FOR COMPLETE
DETAILS AND SPECIFICATIONS

CITY OF VENICE, FLORIDA
PHASE 4
MAIN DEDICATION PROGRAM

NOT VALID FOR COUPONS
UNLESS SIGNED AND

AER MAIN REPLACEMENT PR

ROMEO AND JULIET

WADE'IRIM
8010 Woodland Center Boulevard

nice, FL
on the Gulf

DATE
8/7/
10/2/
11/25/
1/5/
6/21/

8/24/

18

18-

1000

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1000

FIELD BOOK INFORMATION: FIELD BOOK INFORMATION: 8/24/2016 11:49 AM BY DARBY, KRISTIN

SYMBOLS

GENERAL NOTES

- Route pedestrian traffic around work areas when construction activities encroach on the sidewalk for more than 60 minutes using the devices and remedies shown on this Index. Use project specific designs for scenarios not included on this Index.
- For spacing of traffic control devices and general TCD requirements refer to Index 600. The maximum spacing between barricades, vertical panels, drums or tubular markers is 25'.
- Use delineators on longitudinal channelizing devices separating the work area from vehicular traffic.
- Cover or deactivate pedestrian traffic signal displays controlling closed crosswalks.
- Post mounted signs located near or adjacent to a sidewalk must have a 2' minimum clearance from the bottom of sign to the surface of the sidewalk.
- When construction activities involve sidewalks on both sides of the street, stage the construction so that one sidewalk is in service at all times. If this is not feasible and both sidewalks must be closed, as determined by the Engineer, provide a detour to guide pedestrians around the construction zone.
- Provide a 5' wide temporary walkway, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary walkways less than 5' in width at intervals not to exceed 200'.
- Provide a cross-slope with a maximum value of 0.02 for all temporary walkways.
- Temporary walkway surfaces and ramps must be stable, firm, slip resistant, and kept free of any obstructions and hazards such as holes, debris, mud, construction equipment and stored materials.
- Remove temporary walkways immediately after reopening of the sidewalk, unless otherwise noted in the plans.
- Meet the requirements of Index 304 for temporary curb ramps.
- Place pedestrian longitudinal channelizing devices across the full width of the closed sidewalk. For temporary walkways, similar to the sidewalk diversion, place LCDs to delineate both sides of the temporary walkway.

CROSSWALK CLOSURE AND PEDESTRIAN DETOUR

SIDEWALK DETOUR

SIDEWALK DIVERSION

PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS

| | | | | |
|---------------------------|---------------------------------------|------------|------------------|---------------------|
| LAST REVISION 07/01/15 | DESCRIPTION: FDOT DESIGN STANDARDS | FY 2016-17 | INDEX NO. 660 | SHEET NO. 1 of 1 |
|---------------------------|---------------------------------------|------------|------------------|---------------------|

NOTE:
CONTRACTOR SHALL REFERENCE THE LATEST EDITION OF
THE FDOT ROADWAY DESIGN STANDARDS FOR COMPLETE
DETAILS AND SPECIFICATIONS



ISSUED FOR: DATE: 8/7/15 RB
50% DESIGN 8/7/15 RB
100% DESIGN 10/2/15 RB
PERMITS 11/25/15 RB
BID SET 1/5/16 RB
100% DESIGN (REVISED) 6/21/16 RB
BID SET (REVISED) 8/24/16 RB

JOB NO: VEN2018-01M

HEET

D1.06

CITY OF VENICE, FLORIDA
PHASE 4
WATER MAIN REPLACEMENT PROGRAM
PEDESTRIAN CONTROL
FOR CLOSURE OF SIDEWALKS



VENICE FLORIDA WATERMAIN REPLACEMENT PROGRAM - PHASE IV

JOB NO:

HEET

D1.06