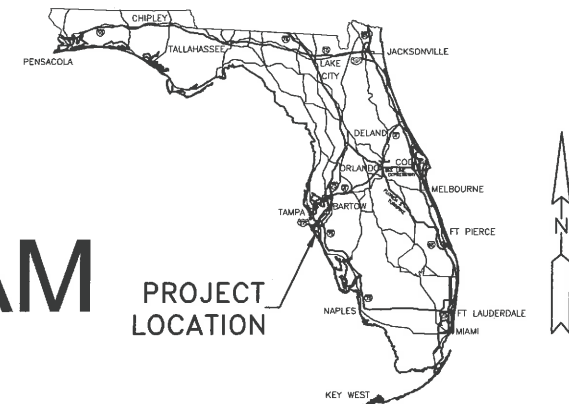




CITY OF VENICE PHASE 4 WATER MAIN REPLACEMENT PROGRAM ISSUED FOR CONSTRUCTION

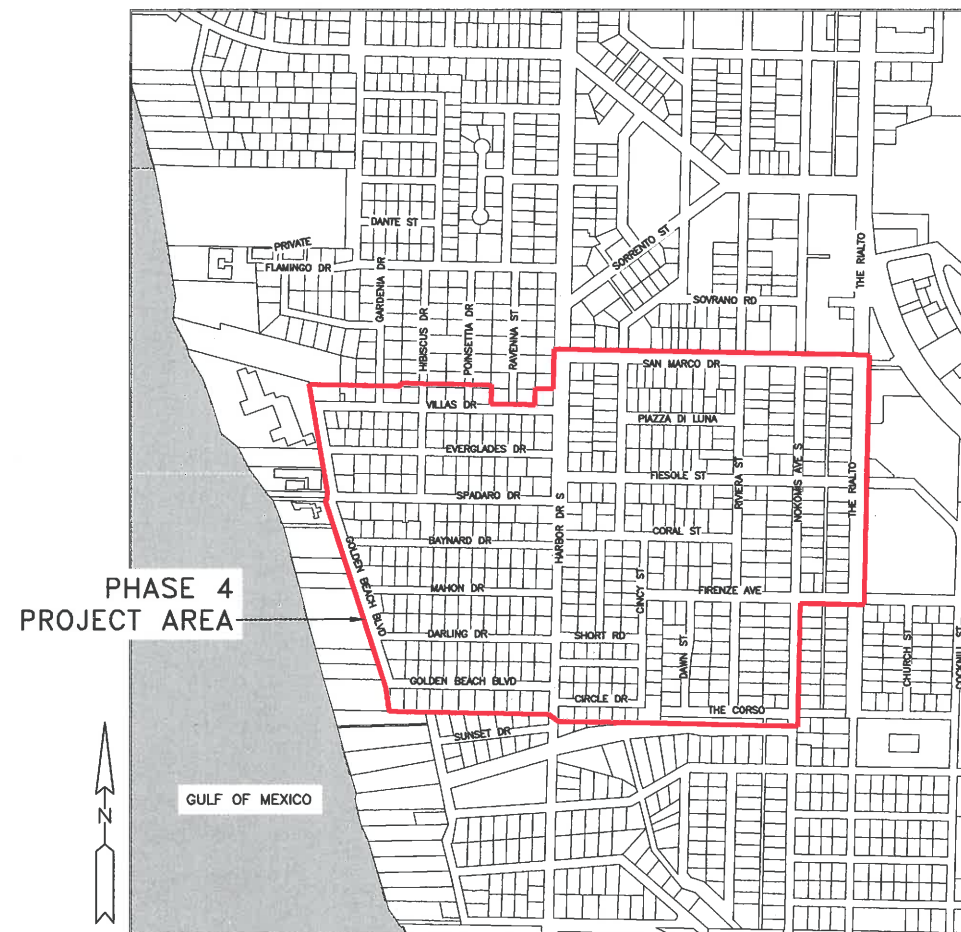


PROJECT
LOCATION

KEY MAP
NOT TO SCALE

CITY OF VENICE CITY COUNCIL

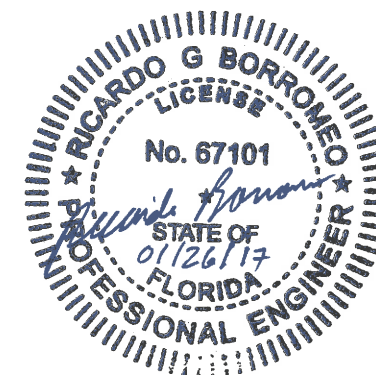
JOHN HOLIC	MAYOR
KIT MCKEON	VICE MAYOR
FRED FRAIZE	COUNCIL MEMBER
BOB DANIELS	COUNCIL MEMBER
JEANETTE GATES	COUNCIL MEMBER
RICHARD CAUTERO	COUNCIL MEMBER
DEBORAH ANDERSON	COUNCIL MEMBER



LOCATION MAP
SCALE: 1"=600'

DRAWING INDEX

SHEET	TITLE
G0.00	COVER SHEET
G1.00	LEGEND, ABBREVIATIONS AND CITY STANDARD NOTES
G1.01	GENERAL NOTES
G1.02	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
C1.00	KEY PLAN
C1.01	NORTH - EXISTING WATERMAIN ABANDONMENT SITE PLAN
C1.02	SOUTH - EXISTING WATERMAIN ABANDONMENT SITE PLAN
C1.03	VILLAS DRIVE
C1.04	VILLAS DRIVE
C1.05	EVERGLADES DRIVE
C1.06	SAN MARCO DRIVE
C1.07	SAN MARCO DRIVE
C1.08	PIAZZA DI LUNA
C1.09	NOKOMIS AVENUE S & THE RIALTO
C1.10	FIESOLE STREET
C1.11	FIESOLE STREET
C1.12	FIESOLE STREET
C1.13	BAYNARD DRIVE & CORAL STREET
C1.14	CORAL STREET
C1.15	NOKOMIS AVENUE S & THE RIALTO
C1.16	MAHON DRIVE & ROBERT STREET
C1.17	FIRENZE AVENUE
C1.18	FIRENZE AVENUE
C1.19	SHORT ROAD
C1.20	DAWN STREET & RIVIERA STREET
C1.21	THE CORSO
C1.22	MISCELLANEOUS PROFILES
D1.00	EROSION AND SEDIMENTATION CONTROL DETAILS
D1.01	CITY OF VENICE POTABLE WATER DETAILS
D1.02	CITY OF VENICE POTABLE WATER DETAILS
D1.03	CITY OF VENICE POTABLE WATER DETAILS
D1.04	PAVEMENT AND SIDEWALK DETAILS
D1.05	MAINTENANCE OF TRAFFIC PLAN
D1.06	PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS



NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:	
JOB NO. VEN2018-01M	SHEET G0.00

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PREPARED UNDER THE SUPERVISION OF:	
<i>Ricardo Borromeo</i> RICARDO BORROMEO, PE	67101 REGISTRATION NO.
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.

1. 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.
2. 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.
3. ELEVATIONS SHOWN HEREON ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE BASED UPON REAL-TIME KINEMATICS GPS OBSERVATIONS.

- 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.
2. 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.
3. 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.
4. 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.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY TO REPORT ANY CONFLICTS BETWEEN WHAT IS SHOWN HEREIN AND ACTUAL CONDITIONS DISCOVERED DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO RESOLVE CONFLICTS THAT MAY ARISE IN THE FIELD DURING CONSTRUCTION.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. WORK SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE FEDERAL, STATE AND LOCAL AGENCY'S REGULATIONS AND STANDARDS.
13. CONTRACTOR SHALL COMPLY WITH THE "TRENCH SAFETY ACT", CHAPTER 90-96, FLORIDA STATUTES.
14. 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.
15. 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.
16. SPECIAL PIPE FOUNDATIONS, IF REQUIRED, SHALL BE DETERMINED IN THE FIELD AND THE TYPE REQUIRED WILL BE AS DIRECTED BY THE ENGINEER.
17. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED SHEETING AND TRENCH SHORING REQUIRED TO PROTECT EXISTING UTILITIES AND OTHER FACILITIES INTENDED TO REMAIN IN SERVICE.
18. ALL PROPOSED MAINS SHALL HAVE A MINIMUM COVER OF 36".
19. 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.
20. 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".
21. 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.
22. THE CONTRACTOR SHALL LOCATE ANY POTENTIAL UTILITY CONFLICTS AND PROVIDE FITTINGS AND RESTRAINTS AS NECESSARY AHEAD OF PIPE LAYING OPERATIONS.
23. 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.
24. 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.

25. 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.

26. 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.

27. 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.

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	

- 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 = ALLOWABLE LEAKAGE, GPH
- S = LENGTH OF PIPE TESTED, FT
- D = DIAMETER OF PIPE, IN
- P = AVERAGE TEST PRESSURE, PSI
- $$L = \frac{S \cdot D \cdot \sqrt{P}}{148,000}$$
- 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 DUAL CHECK VALVE TO BE INSTALLED, THE EXISTING THERMAL EXPANSION MUST BE RELOCATED TO THE WATER SERVICE CONNECTION 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 LINES.
36. CONTRACTOR SHALL CONFIRM WATER METER NUMBER AND IRRIGATION METER NUMBER BEFORE COMMENCING SERVICE LINES WHEN EXISTING METERS ARE NEXT TO EACH OTHER.

- 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/SWFWM D "BEST MANAGEMENT PRACTICES". THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION EFFORTS THAT MAY BE REQUIRED.
2. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING FROM THE PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
3. 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.
4. 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.
5. THE CONTRACTOR SHALL ENSURE THAT ALL EXISTING DRAINAGE STRUCTURES, PIPES, ETC., ARE CLEANED OUT AND WORKING PROPERLY AT THE TIME OF PROJECT COMPLETION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING DIRT AND SEDIMENT FROM ALL CONSTRUCTION EQUIPMENT AND VEHICLES PRIOR TO ENTERING PUBLIC ROAD WAYS.
7. 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.
8. HAY BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
9. HAY BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
10. 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 COMPACTED AGAINST THE FILTER BARRIER.
11. EACH HAY BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALES.
12. LOOSE STRAW SHOULD BE WEDGED BETWEEN THE BALES TO PREVENT WATER FROM ENTERING BETWEEN THE BALES.
13. STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAIN EVENTS.
14. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
15. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
16. 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 SEEDED.
17. 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.
18. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC OR BALES SHALL BE REPLACED PROMPTLY.
19. 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.
20. 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 SEEDED.
21. 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.
22. 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.
23. 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.
24. 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.
25. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS A POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
26. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
27. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
28. 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.
29. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT.
30. 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.
31. ALL DEWATERING, EROSION AND SEDIMENT CONTROL DEVICES ARE TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
32. 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.
33. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL FDEP OR WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO THE COMPLIANCE FOR EROSION AND SEDIMENTATION CONTROL.
34. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
35. THE CONTRACTOR SHALL EXECUTE THE STORM WATER POLLUTION PREVENTION PLAN PROVIDED ON SHEET G1.02 PRIOR TO INITIATING CONSTRUCTION.

[illegible]

NOT VALID FOR CONSTRUCTION
UNLESS SIGNED AND DATED:



8010 Woodland Center Boulevard
Suite 1200, Tampa, FL 33614
813.862.4373/888.499.9624 FAX: 813.888.7215
Certificate of Authorization No.: 3952

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CITY OF VENICE, FLORIDA
PHASE 4

WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION
GENERAL NOTES



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	

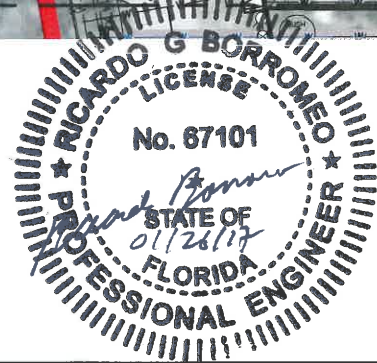
SHEE

G1.01

VENICE FLORIDA WATERMAIN REPLACEMENT PROGRAM - PHASE IV

PROJECT MANAGER: Holly Kremers P.E.
FIELD BOOK INFORMATION: -
S:\NEW WORK\KDARRY\DO599570\GIS-PI\TS-VENICE PH54-G1.01.DWG - G1.01 - PLOTTED 1/26/2017 10:22 AM BY DARBY, KRISTIN

PROJECT MANAGER: Holly Kremera, P.E.
C:\PW\WORK\KIDARBY\0599570\VENICE - C1.03 - PLOTS-1/26/2017 10:23 AM BY DARBY, KRISTIN



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.

WATER SERVICE NOTE:

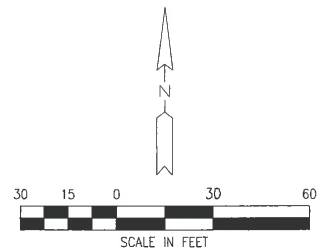
WHEN CONNECTING TO AN EXISTING METER, THE CONTRACTOR SHALL CONNECT THE NEW SERVICE LINE TO THE CUSTOMER SIDE.

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.



MATCHLINE SEE SHEET C1.04

CITY OF VENICE, FLORIDA
PHASE 4

**WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION**
VILLAS DRIVE



ISSUED FOR: 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
C1.03

REV#	DATE	DESCRIPTION	BY

NOT VALID FOR CONSTRUCTION
UNLESS SIGNED AND DATED:

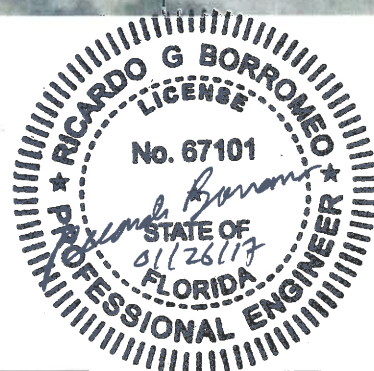


8810 Woodland Center Boulevard
Venice, Florida 33596
813.882.4328 FAX 813.882.7216
Certificate of Authorization No. 3982
www.wadefirm.com

VENICE, FLORIDA WATERMAIN REPLACEMENT PROGRAM - PHASE IV

FIELD BOOK INFORMATION: -


MATCHLINE SEE SHEET C1.03



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

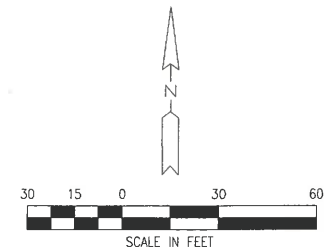
CONTRACTOR SHALL PROVIDE NEW WATER SERVICES FROM EXISTING 6" WATER MAIN TO EXISTING METERS.

 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:

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

PHASE 4

WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION

VILLAS DIVINE



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

JOB NO. **2018-01M**

EFT

C1.04

UNLESS SIGNED AND DATED:



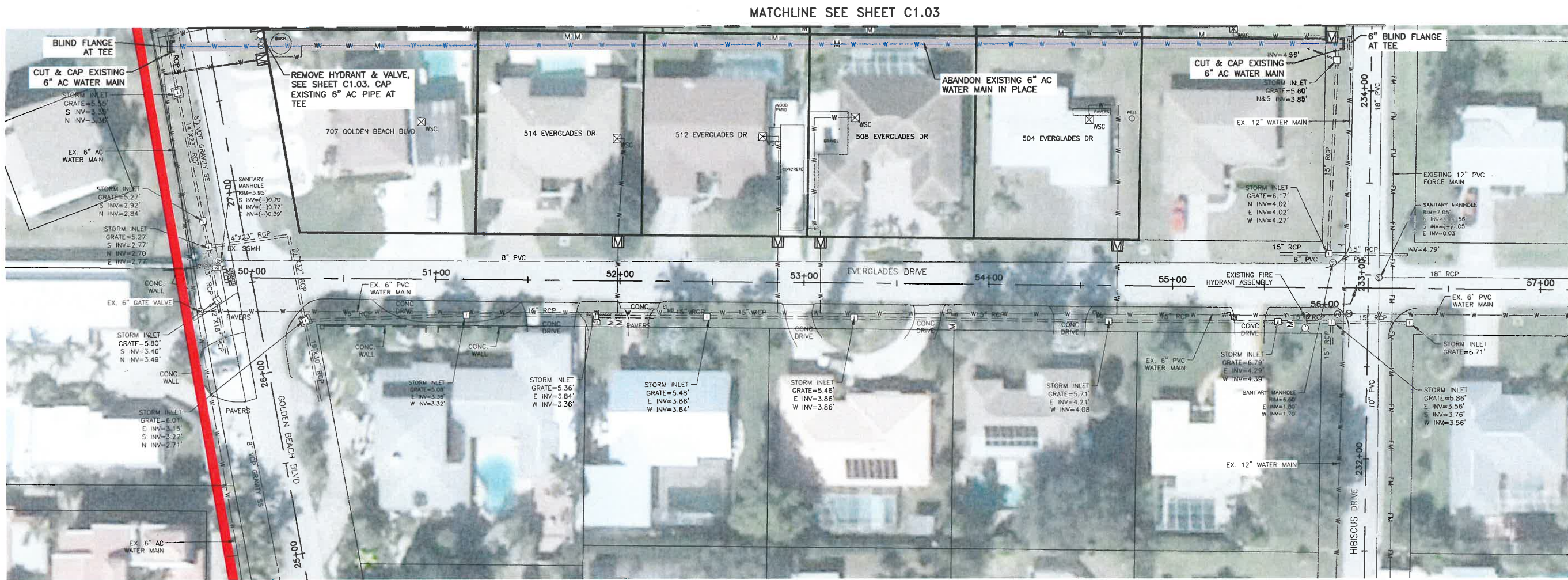
Suite 1200, Tampa, FL 33614
813.882.4373/888.499.9624 FAX: 813.888.7215
Certificate of Authorization No.: 3952
www.wadefirm.com

1000

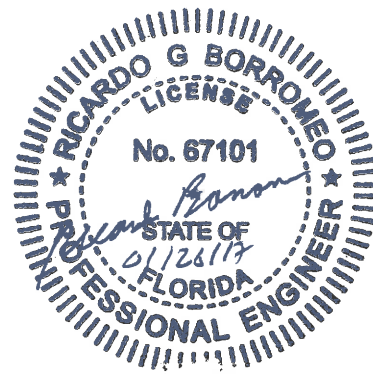
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W WOODBINE GROUP, INC. VFNILF. FLORIDA WATERMAIN REPLACEMENT PROGRAM - PHASE IV

PROJECT MANAGER: Holly Krenn, P.E.
C:\PW\WORK\KIDSBY\0598570\CIP-PLTS-VENICE C-1.03 TO C1.05.DWG - C1.05 - PLOTTED 1/26/2017 10:24 AM BY DARBY, KRISTIN



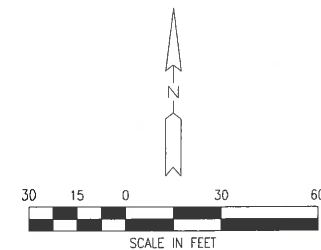
MATCHLINE SEE SHEET C1.03



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.



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



ISSUED FOR: 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

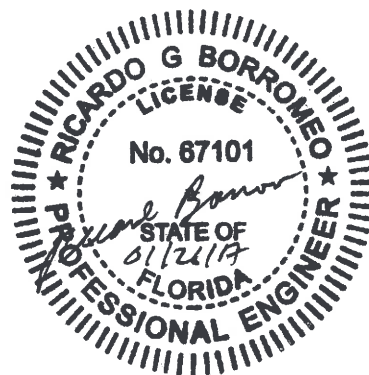
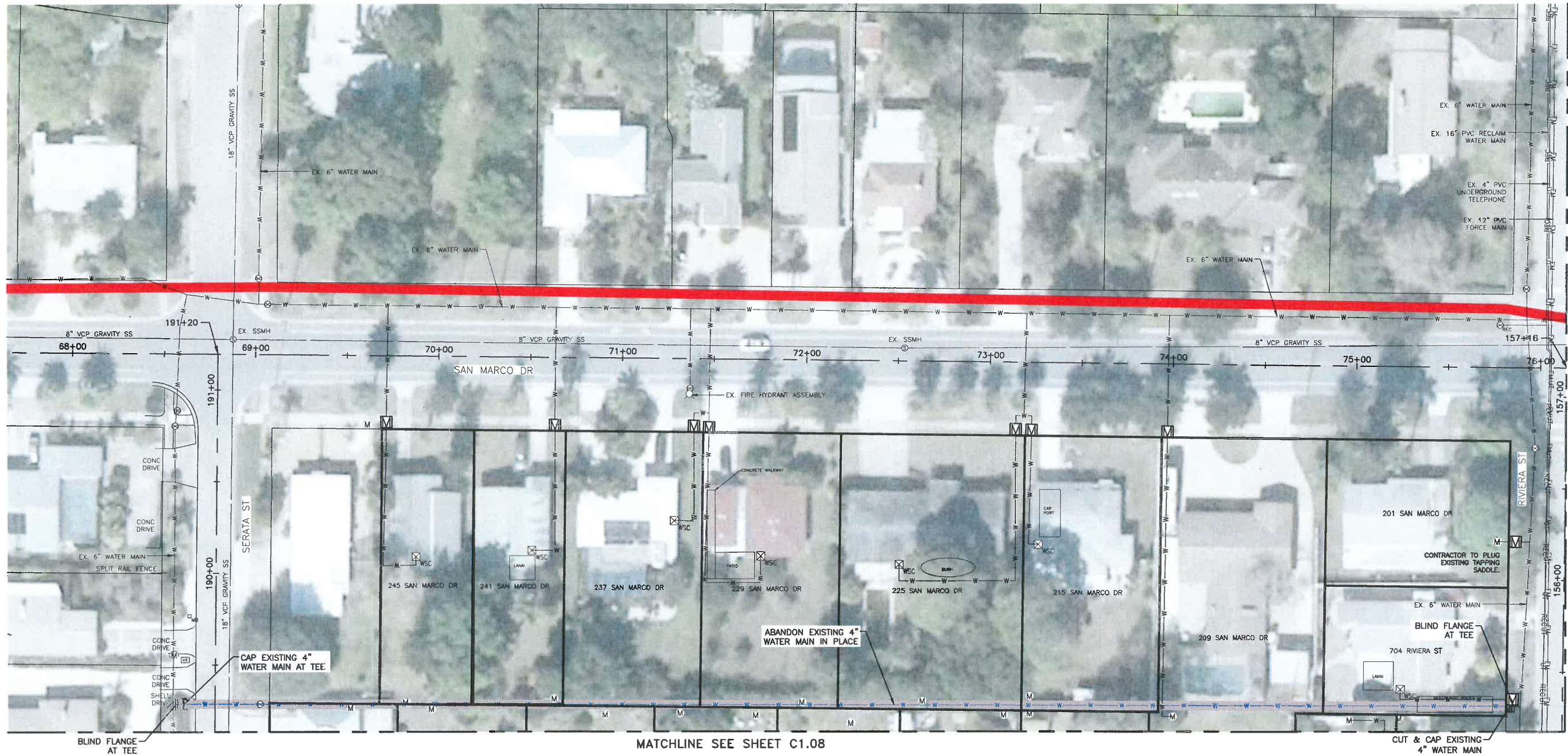
JOB NO.
VEN2018-01M

SHEET
C1.05

REV#	DATE	DESCRIPTION	BY

NOT VALID FOR CONSTRUCTION
UNLESS SIGNED AND DATED:
WADETRIM
8010 Woodland Center Boulevard
Suite 1200, Tampa, FL 33614
Phone: 813.888.7215
Fax: 813.888.7216
www.wadetrims.com
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VENICE, FLORIDA WATERMAIN REPLACEMENT PROGRAM - PHASE IV

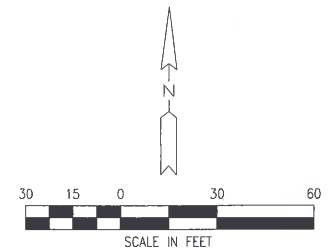


WATER SERVICE NOTE:
WHEN CONNECTING TO AN EXISTING METER, THE CONTRACTOR SHALL CONNECT THE NEW SERVICE LINE TO THE CUSTOMER SIDE.

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.



MATCHLINE SEE SHEET C1.07

MATCHLINE SEE SHEET C1.08

REV#	DATE	DESCRIPTION	BY

NOT VALID FOR CONSTRUCTION
UNLESS SIGNED AND DATED:

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8010 Woodland Center Boulevard
Venice, FL 33596
813.882.4377 FAX 813.888.7215
www.wadetrtrim.com
Certificate of Authorization No. 3892

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

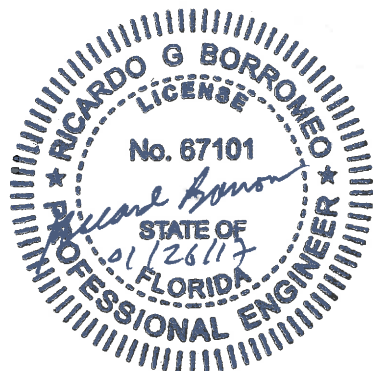


ISSUED FOR:	DATE:	BY:
50% DESIGN	8/7/15	RB
100% DESIGN	10/2/15	RB
PERMITS	11/25/15	RB
BID SET	1/5/16	RB
100% DESIGN (REVISED)	6/21/16	RB
BID SET (REVISED)	8/24/16	RB
CONSTRUCTION	1/25/17	RB

JOB NO. **VEN2018-01M**

SHEET

C1.06



MATCHLINE SEE SHEET C1.09

WATER SERVICE NOTE:

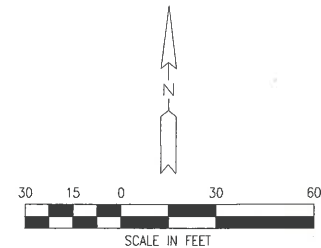
WHEN CONNECTING TO AN EXISTING METER, THE CONTRACTOR SHALL CONNECT THE NEW SERVICE LINE TO THE CUSTOMER SIDE.

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.



CITY OF VENICE, FLORIDA
PHASE 4

**WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION**

SAN MARCO DRIVE



ISSUED FOR: 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 1/25/17 RB
JOB NO. VEN2018-01M

SHEET

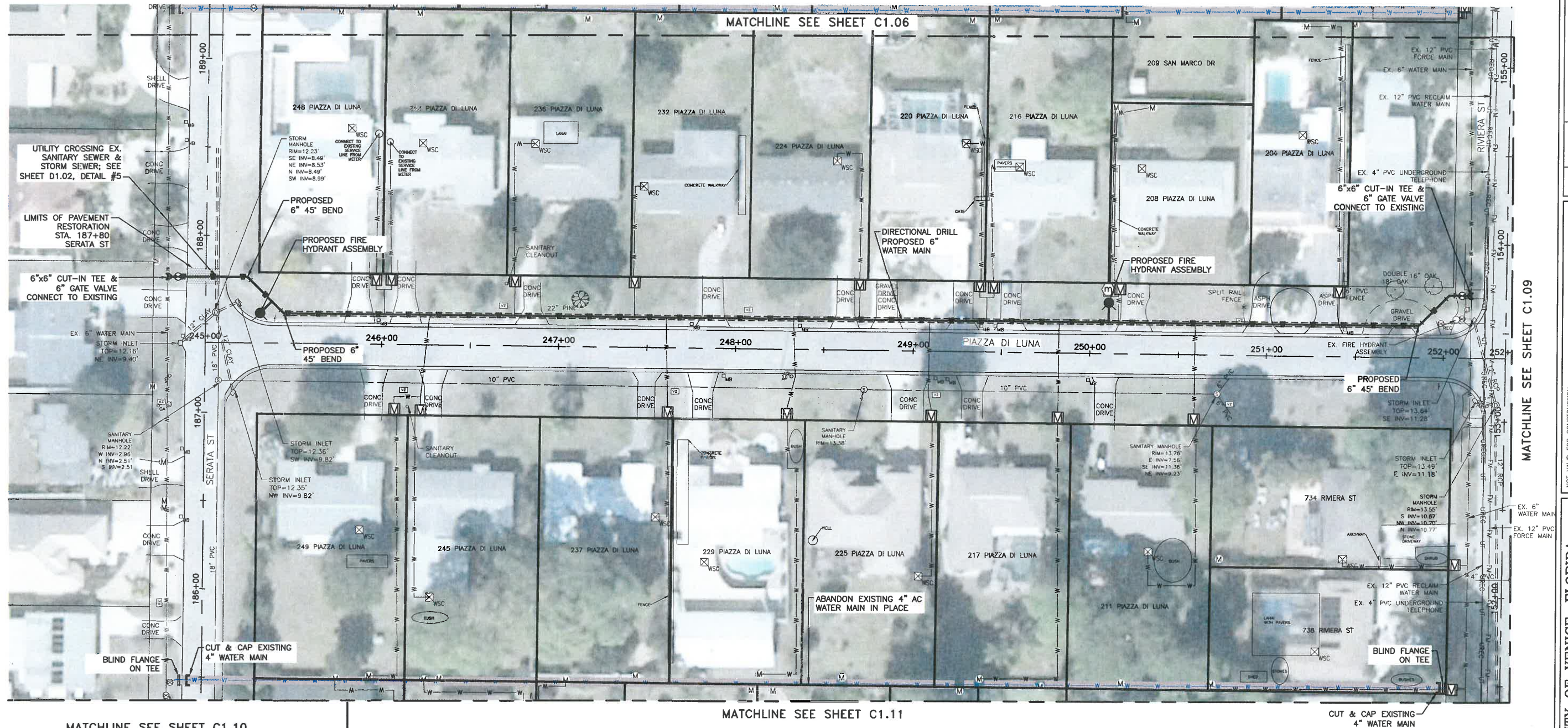
C1.07

NOT VALID FOR CONSTRUCTION
UNLESS SIGNED AND DATED:



8010 Woodland Center Boulevard
San Diego, CA 92121
813.882.4378 FAX 813.888.2215
www.wadetrim.com
Certificate of Authorization No. 3892

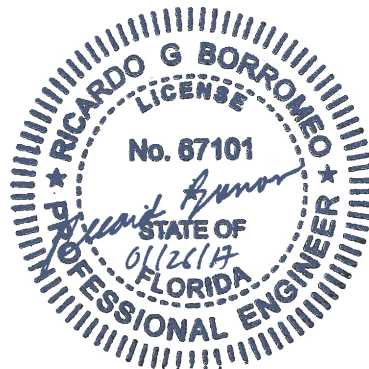
REV#	DATE	DESCRIPTION	BY
1	10/18/16	ADDED CALLOUT FOR VALVE BOX & COVER REMOVAL	RCB



MATCHLINE SEE SHEET C1.09

MATCHLINE SEE SHEET C1.10

MATCHLINE SEE SHEET C1.11



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.

CITY OF VENICE, FLORIDA
PHASE 4

WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION
PIAZZA DI LUNA

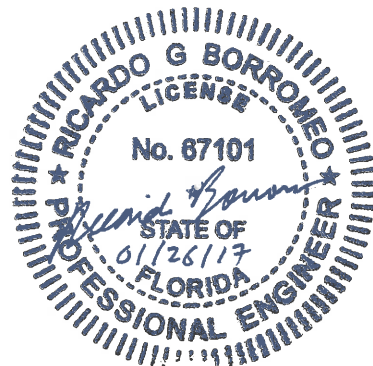
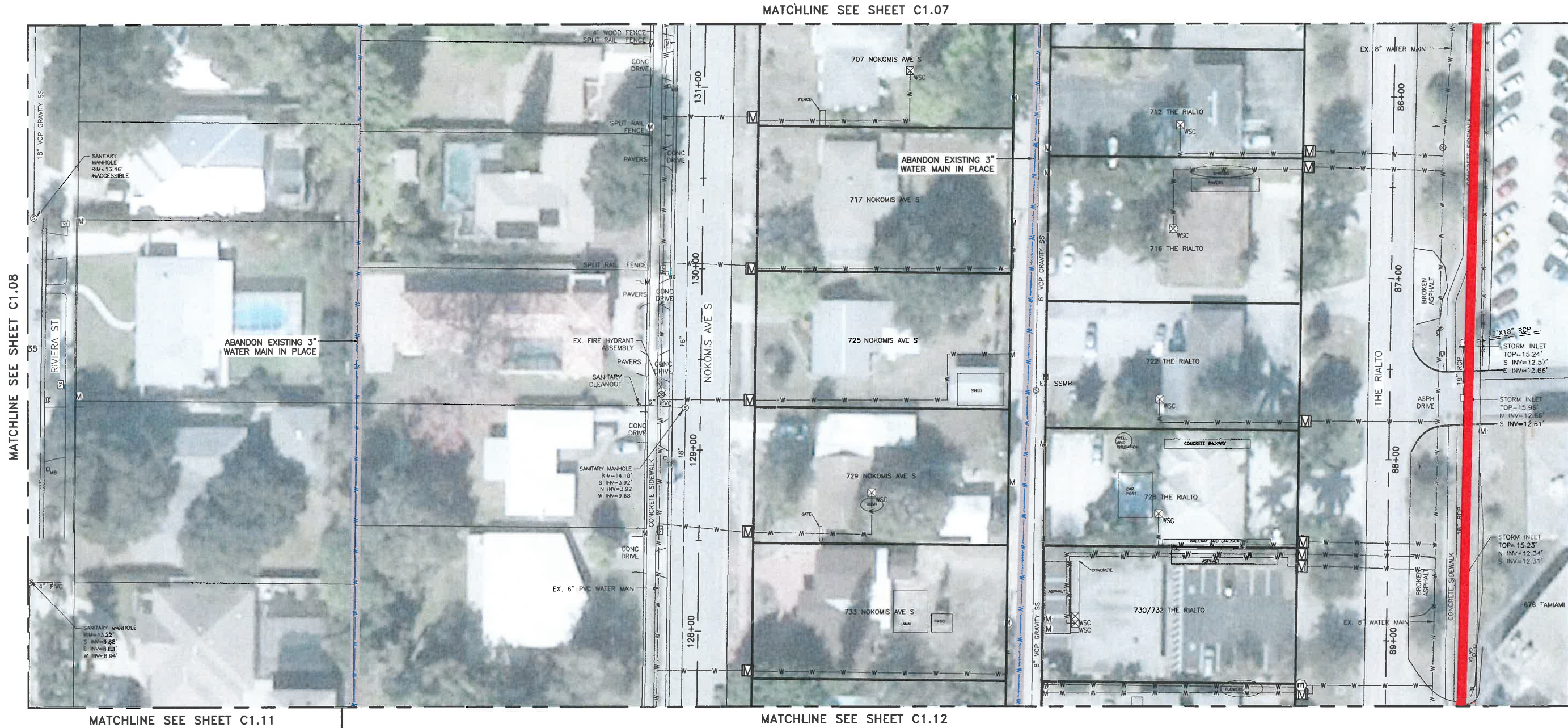


ISSUED FOR: 8/7/15 RB
50% DESIGN: 10/2/15 RB
100% DESIGN: 11/25/15 RB
PERMITS: 1/5/16 RB
BID SET: 6/21/16 RB
100% DESIGN (REVISED): 8/24/16 RB
BID SET (REVISED): 8/24/16 RB
CONSTRUCTION: 1/26/17 RB
JOB NO.: VEN2018-01M

SHEET
C1.08

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UNLESS SIGNED AND DATED:
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8010 Woodland Center Boulevard
Suite 1000, Tampa, FL 33614
Phone: 813.888.7215
Fax: 813.888.7216
www.wadetrtrim.com
Certificate of Authorization No. 3882

REV#	DATE	DESCRIPTION	BY

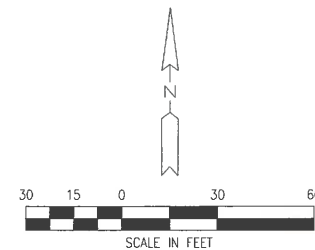


WATER SERVICE NOTE:
WHEN CONNECTING TO AN EXISTING METER, THE CONTRACTOR SHALL CONNECT THE NEW SERVICE LINE TO THE CUSTOMER SIDE.

INDICATES PROPERTIES WHERE EXISTING WATER SERVICE IS TO BE CONNECTED TO EXISTING 6\"/>

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.



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

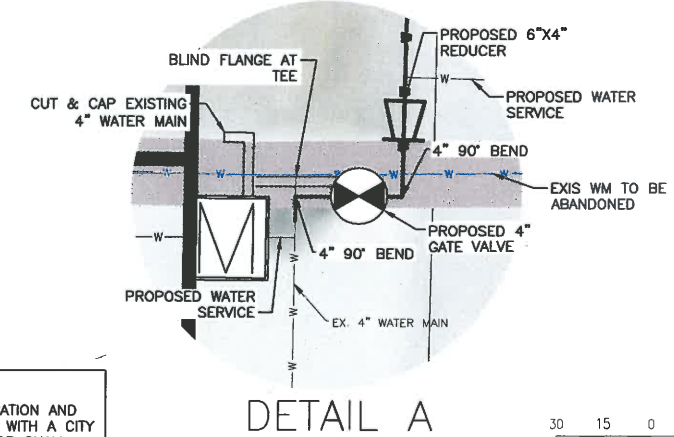


ISSUED FOR: 50% DESIGN 8/7/15 RB
100% DESIGN 10/2/15 RB
PERMITS 11/25/15 RB
BID SET 1/5/16 RB
100% DESIGN (REVISED) 6/21/16 RB
BID SET (REVISED) 8/24/16 RB
CONSTRUCTION 1/26/17 RB
JOB NO. VEN2018-01M

SHEET
C1.09

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UNLESS SIGNED AND DATED:
WADETRIM
8010 Woodland Center Boulevard
Tampa, FL 33634
813.882.4378 FAX 813.888.7215
www.wadetrtrim.com
Certificate of Authorization No. 3892

Building maintenance on a foundation of excellence
REV# DATE DESCRIPTION
BY



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.

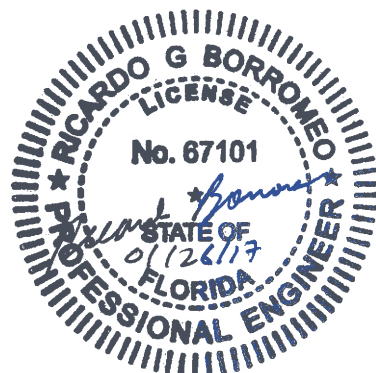
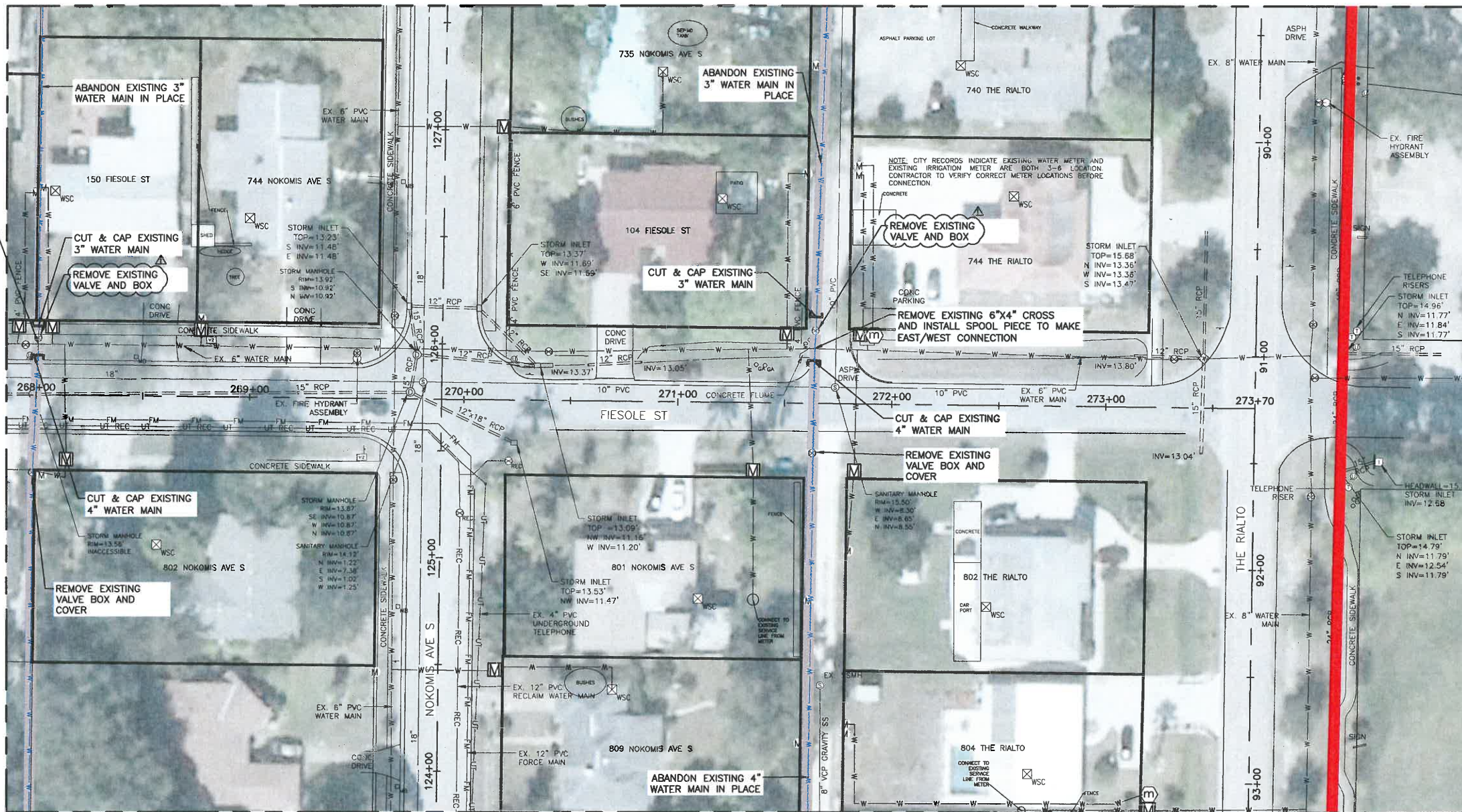
C1.10

VENICE FLORIDA
WATERMAIN REPLACEMENT PROGRAM
POLICE W

[illegible]

MATCHLINE SEE SHEET C1.09

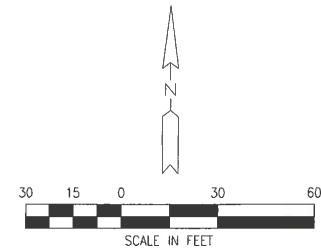
MATCHLINE SEE SHEET C1.15



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\"/>
- 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.



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



ISSUED FOR: 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 1/25/17 RB
JOB NO. VEN2018-01M

SHEET
C1.12

REV#	DATE	DESCRIPTION	BY
1	10/15/16	REVISED CALLOUT FOR VALVE & BOX REMOVAL	RGB

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:

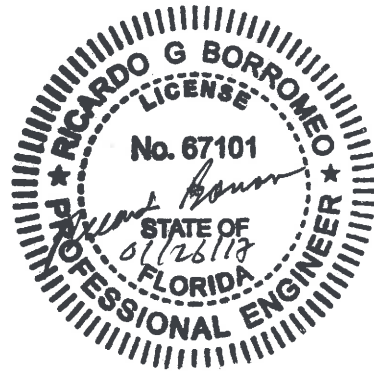
WadeTrm
8010 Woodland Center Boulevard
Venice, FL 33596
813.882.4370 ext. 404 FAX: 813.882.7215
www.wadetrm.com
Certificate of Authorization No. 382

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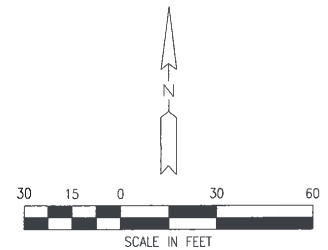
MATCHLINE SEE SHEET C1.17


MATCHLINE SEE SHEET C1.15



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

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.





Venice, FL

City on the Gulf

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

OB NO. **VEN2018-01M**

C1.14

HEET

MATCHLINE SEE SHEET C1.12

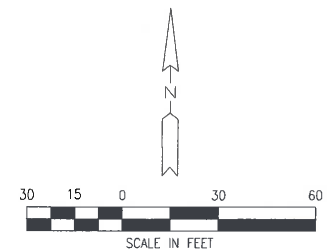


 INDICATES PROPERTIES WHERE EXISTING WATER SERVICE IS TO BE CONNECTED TO EXISTING 6" WM.

WATER SERVICE NOTE:

WATER SERVICE NOTE:

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



CITY OF VENICE, FLORIDA
PHASE 4

**PHASE 4
WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION**
NOKOMIS AVE S & THE RIALTO



ISSUED FOR: DATE: BY:
 00% DESIGN 8/7/15 RB
 00% DESIGN 10/2/15 RB
 PERMITS 11/25/15 RB
 00% DESIGN 1/5/16 RB
 (REVISED) 6/21/16 RB
 00% DESIGN 8/24/16 RB
 (REVISED)
 CONSTRUCTION 1/26/17 RB
 JOB NO.
 VEN2018-01M

C1.15

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UNLESS SIGNED AND DATED:



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Suite 1200, Tampa, FL 33614
813.882.4373/888.499.9624 FAX: 813.888.7215
Certificate of Authorization No.: 3952
www.wadetrin.com

[illegible]

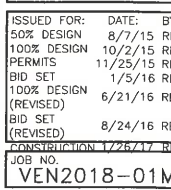
PROJECT MANAGER: Holly Kremers P.E.
614.438.3232
h.kremers@harsco.com

MATCHLINE SEE SHEET C1.16



MATCHLINE SEE SHEET C1.18

PHASE 4
WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION.
FIRENZE AVENUE



C1.17

Wade Trim Group, Inc. VENICE, FLORIDA WATERMAIN REPLACEMENT PROGRAM — PHASE IV

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UNLESS SIGNED AND DATED:



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Suite 1200, Tampa, FL 33614
813.882.4373/888.499.9824 FAX: 813.888.7215
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www.wadefilm.com

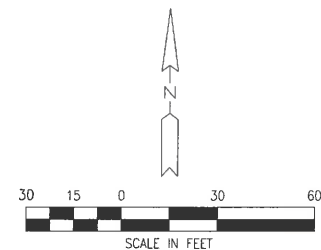
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[illegible]

 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.





WATER SERVICE NOTE:

 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:



**CITY OF VENICE, FLORIDA
PHASE 4
WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION
FIRENZE AVENUE**

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

C1.18

NOT VALID FOR CONSTRUCTION
UNLESS SIGNED AND DATED:



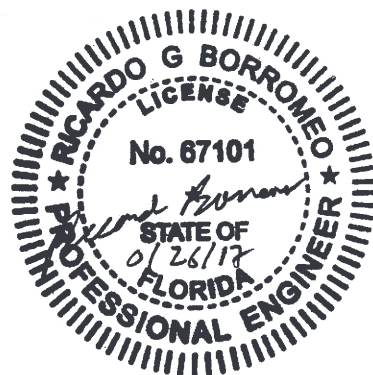
8010 Woodland Center Boulevard
Suite 1200, Tampa, FL 33614
813.882.4373/888.499.9624 FAX: 813.888.7215
Certificate of Authorization No.: 3952
www.wadefirm.com

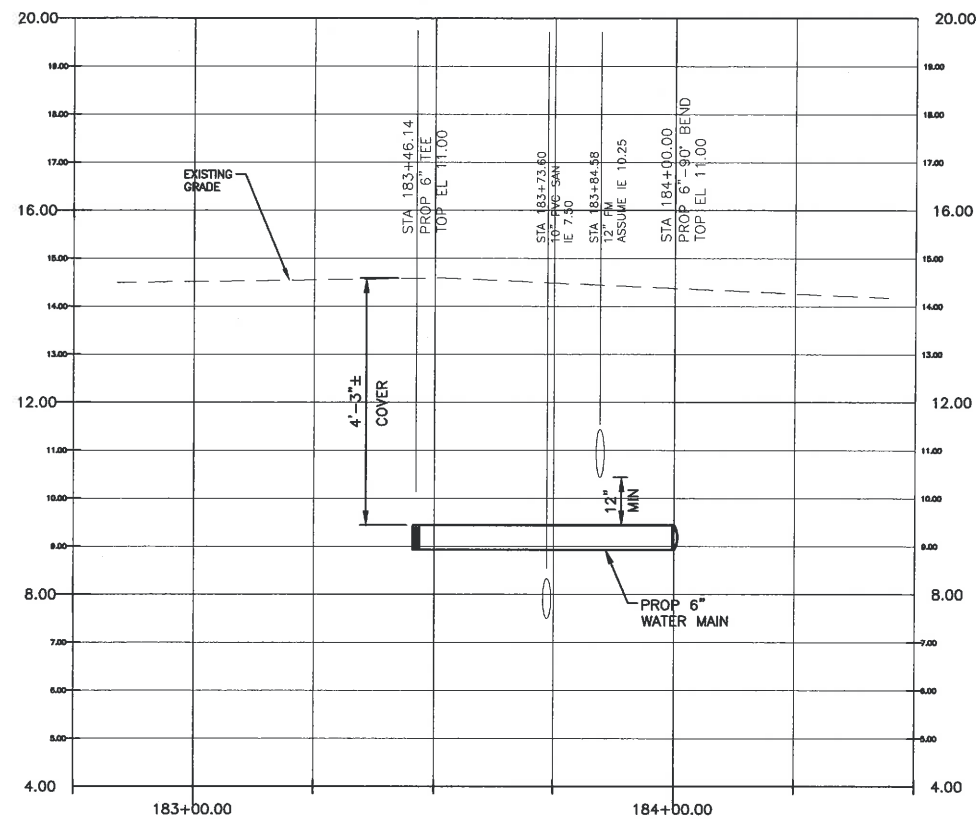
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[illegible]

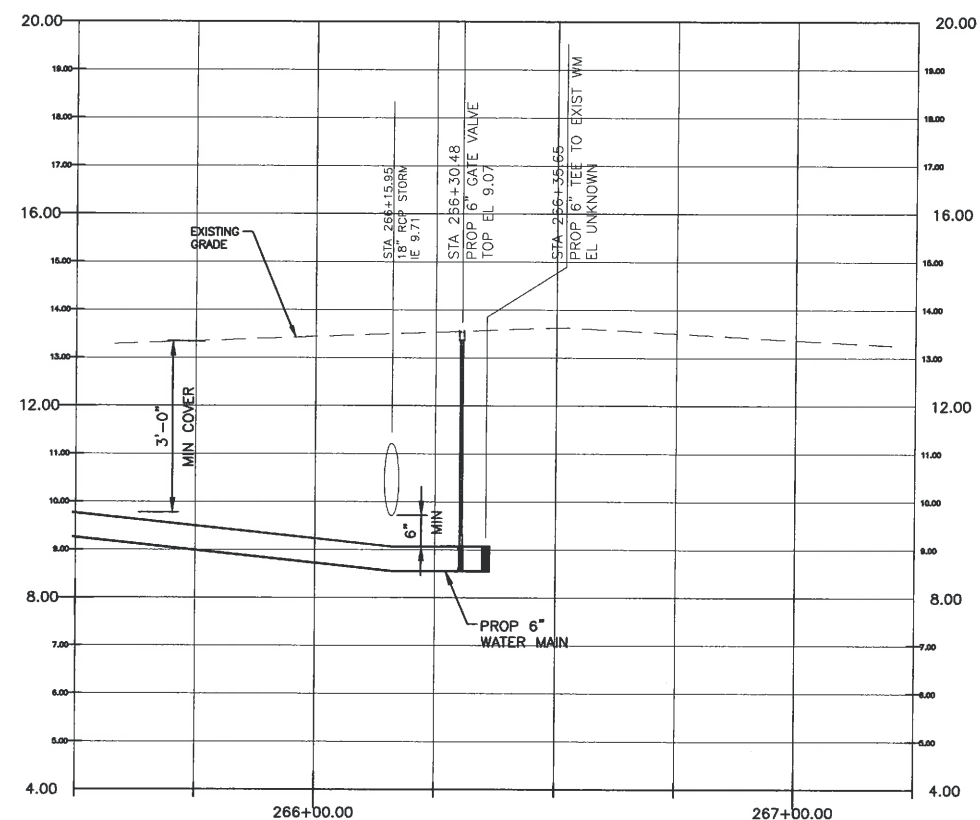
PROJECT MANAGER: Holly Kremers P.E.

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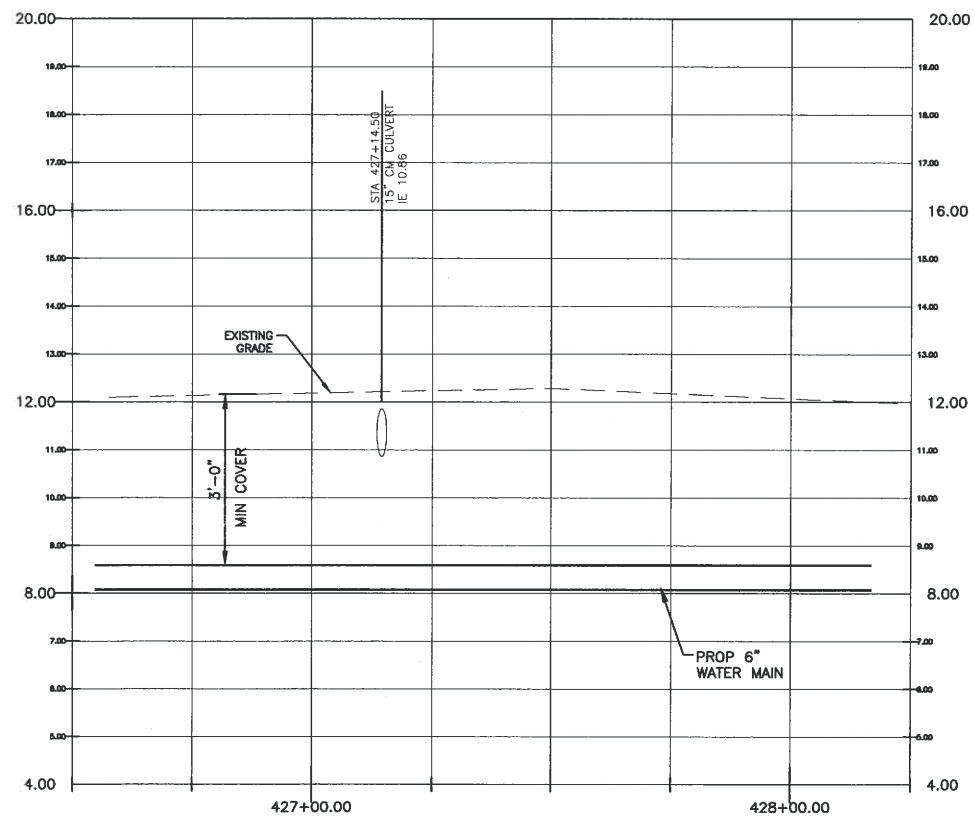


SERATA ST PROFILE AT FIESOLE ST

SCALE: 1:40 HORIZ
1:4 VERT

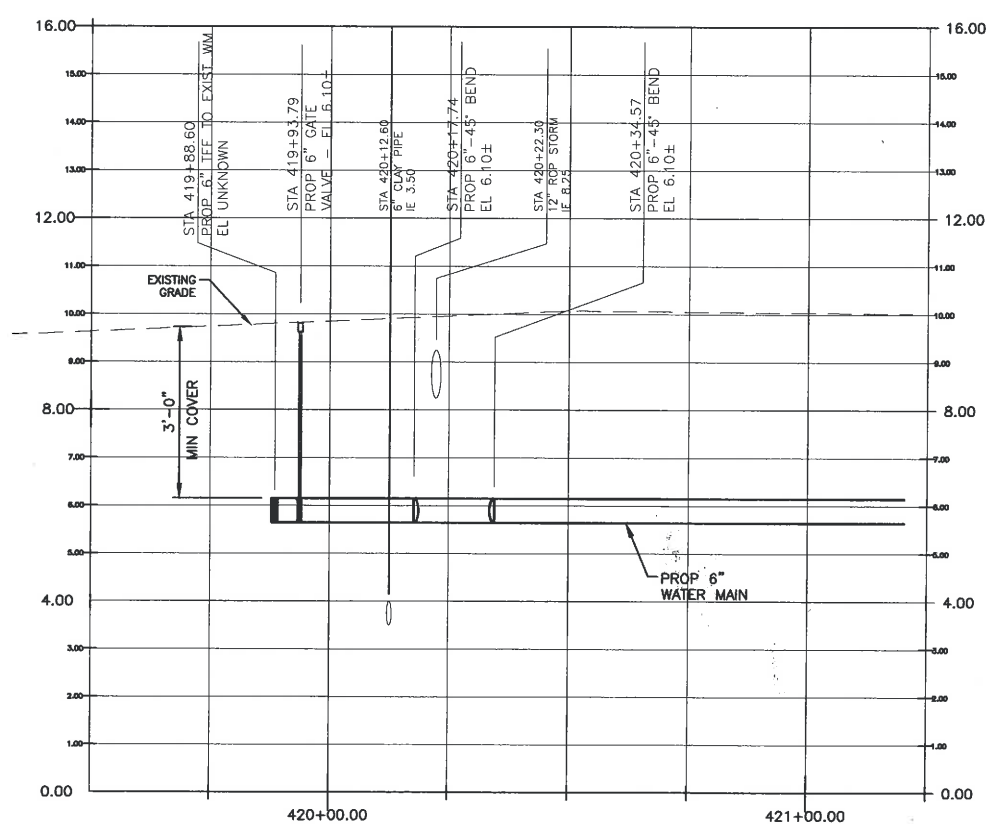
RIVIERA ST PROFILE AT FIESOLE ST

SCALE: 1:40 HORIZ
1:4 VERT



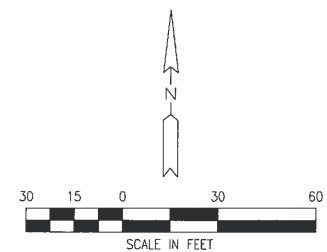
DAWN ST PROFILE AT FIRENZE ST

SCALE: 1:40 HORIZ
1:4 VERT



DAWN ST PROFILE AT THE CORSO

SCALE: 1:40 HORIZ
1:4 VERT



CITY OF VENICE, FLORIDA
PHASE 4
WATER MAIN REPLACEMENT PROJECT
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 (REVISED)	6/21/16	RB
BID SET (REVISED)	8/24/16	RB
CONSTRUCTION 1/26/17 RB		
JOB NO.		
VEN2018-01M		

C1.22

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Abstract

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Suite 1200, Tampa, FL 33614
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Certificate of Authorization No.: 3952
www.wadetrtrim.com

NOT VALID FOR CONSTRUCTION
UNLESS SIGNED AND DATED:

REV#	DATE	DESCRIPTION	BY
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PROJECT MANAGER: Holly Kramers, P.E.
C:\PW_WORK\KORBY\00599570\CPR-PLTS-VE-NICE C:1.22.DWG - C:1.22 - PLOTTED 1/26/2017 10:29 AM BY DABBY, KRISTIN

MINIMUM LENGTH (FT) OF FORCE MAIN TO BE RESTRAINED ON EACH SIDE OF FITTING									
FITTING	PIPE SIZE (INCHES)								
	4	6	8	10	12	16	18	20	24
45 BEND:	H	6	9	12	14	16	21	23	25
	VU	4	6	7	9	10	13	15	16
	VD	12	20	26	32	37	48	53	68
22.5 BEND:	H	3	4	6	7	8	10	11	12
	VU	2	3	4	4	5	6	7	8
	VD	7	10	13	15	18	23	26	33
11.25 BEND:	H	2	2	3	3	4	5	5	6
									7

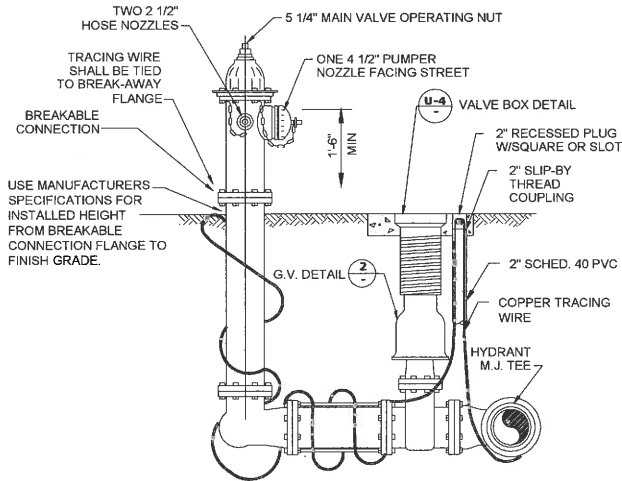
MINIMUM LENGTH (FT) OF WATER OR REUSE MAIN TO BE RESTRAINED ON EACH SIDE OF FITTING									
FITTING	PIPE SIZE (INCHES)								
	4	6	8	10	12	16	18	20	24
90 BEND:	H	23	33	43	51	60	76	83	104
	VU	6	8	11	13	16	20	22	28
	VD	22	30	40	48	56	72	80	102
45 BEND:	H	10	14	18	21	25	31	34	43
	VU	6	8	11	13	16	20	22	24
	VD	22	30	40	48	56	72	80	102
22.5 BEND:	H	5	7	8	10	12	15	17	21
	VU	3	4	5	6	7	10	11	12
	VD	10	15	19	23	27	35	38	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.

- FOR TEE OR REDUCER FITTINGS SUBMIT RESTRAINED JOINT LENGTH CALCULATIONS TO CITY ENGINEER FOR REVIEW AND APPROVAL, USING THE ASSUMPTIONS LISTED ABOVE.
- 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 EOR SHALL PROVIDE CALCULATIONS BASED ON ACTUAL CONDITIONS.
- RESTRAINED JOINT SHALL BE USED ON ALL JOINTS FROM ANY MAIN TEE TO ANY FIRE HYDRANT ASSEMBLY.
- THRUST BLOCKS WILL NOT BE ACCEPTED, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

PRESSURE MAIN RESTRAINED JOINT TABLE

N.T.S.

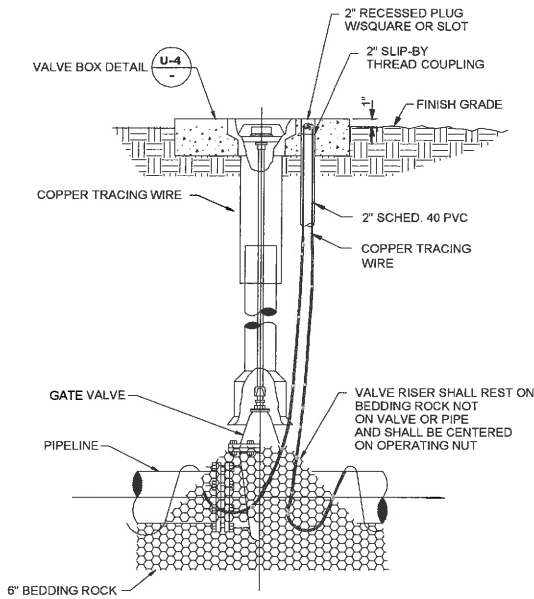


NOTES:

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

FIRE HYDRANT ASSEMBLY DETAIL

N.T.S.

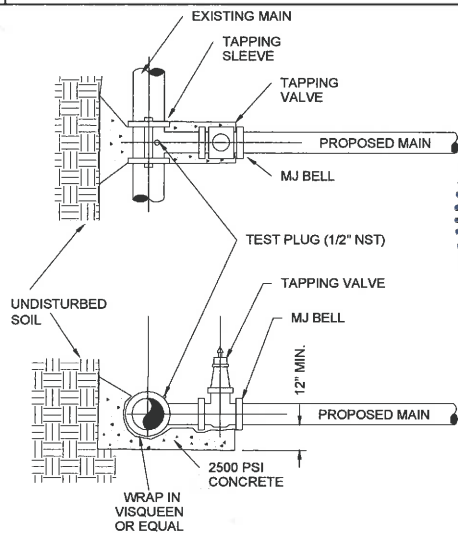


- GATE VALVES SHALL BE RESILIENT WEDGE-TYPE MANUFACTURED BY MUELLER, AMERICAN VALVE, OR EQUAL. ALL GATE VALVES SHALL BE FUSION BONDED EPOXY COATED (INTERIOR AND EXTERIOR) MEET ANSI/AWWA C550, AND BE NSF61 CERTIFIED.
- FOR VALVES LARGER THAN 12" IN USE BUTTERFLY STYLE VALVE.
- VALVE SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 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)

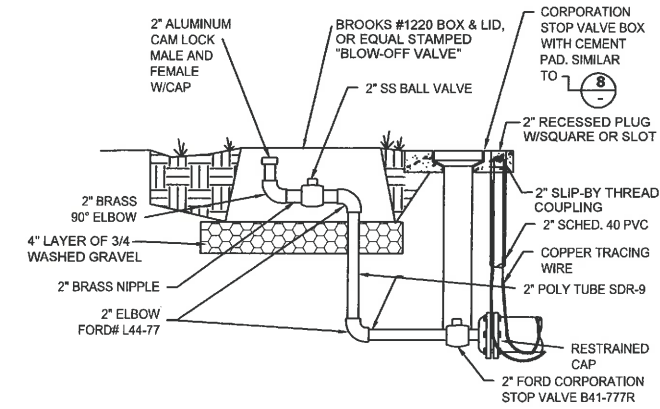
N.T.S.



- EXISTING MAIN SHALL NOT BE TAPPED UNTIL THE ASSEMBLED SLEEVE AND VALVE ARE TESTED IN PLACE AT A MINIMUM OF 150 PSI FOR THIRTY MINUTES.
- UPON SUCCESSFUL TAPPING SLEEVE PRESSURE TEST (NOTE 1), THE THRUST BLOCK SHALL BE POURED AND HAVE SET FOR 24 HRS PRIOR TO TAPPING. READY-MADE THRUST BLOCKS CAN BE USED WITH CITY APPROVAL.
- STAINLESS STEEL TAPPING SLEEVE SHALL BE FORD. ALL HARDWARE SHALL BE STAINLESS STEEL. GASKETS SHALL BE VIRGIN SBR COMPOUND.
- GATE VALVES SHALL BE RESILIENT WEDGE-TYPE MANUFACTURED BY MUELLER OR AMERICAN VALVE. ALL GATE VALVES SHALL BE FUSION BONDED EPOXY COATED (INTERIOR AND EXTERIOR) MEET ANSI/AWWA C550, AND BE NSF61 CERTIFIED.
- TAPPING SLEEVES MAY ONLY BE USED WHEN THE TAP DIAMETER IS AT LEAST ONE PIPE SIZE SMALLER THAN THE DIAMETER OF THE MAIN BEING TAPPED.

TAPPING SLEEVE & VALVE DETAIL

N.T.S.



NOTES:

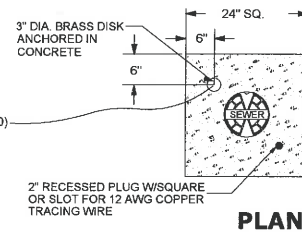
- FOR ALL DEAD-END WATER MAINS.
- BLOW OFF CAPS WILL BE RESTRAINED ACCORDING TO DETAIL 2, PAGE WSR-3 OF THESE STANDARD DETAILS.
- COPPERHEAD TRACING WIRE PART #12 AWG OR EQUAL SHALL BE USED.
- IF AN AUTOMATIC FLUSHING DEVICE IS REQUIRED, IT SHALL BE AN ECLIPSE MODEL #9400 FLUSHING DEVICE.

7

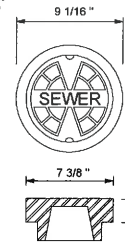
DEAD-END BLOW-OFF DETAIL

(PERMANENT)

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

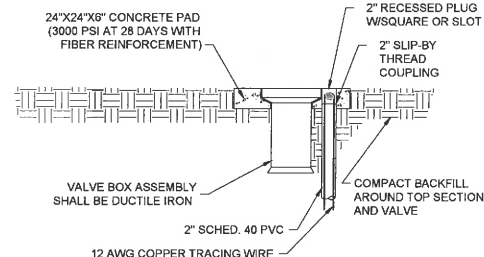


PLAN



COVER DETAIL

APPROPRIATE SERVICE TYPE
SHALL BE INDICATED
(WATER, SEWER OR REUSE)



PROFILE

- PAVED AREAS: SET CONCRETE PAD AND COVER FLUSH WITH FINISHED PAVEMENT SURFACE.
- UNPAVED AREAS: SET PAD AND COVER 1 INCH ABOVE FINISHED GRADE.
- VALVES LOCATED IN DITCH AND OVER 4' DEPTH (LINE) MUST USE TRENCH ADAPTER VALVE BOX (AMERICAN FLOW CONTROL).
- 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)
- PRE-CAST PADS MAY BE USED WITH CITY APPROVAL.

VALVE BOX DETAIL

N.T.S.

CITY OF VENICE, FLORIDA

PHASE 4

WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION
POTABLE WATER DETAILS



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

JOB NO.
VEN2018-01M

SHEET

D1.01

VENICE, FLORIDA WATERMAIN REPLACEMENT PROGRAM - PHASE IV

NOT VALID FOR CONSTRUCTION
UNLESS SIGNED AND DATED:

WADE TRIM

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Venice, FL 33596
813.882.4373 FAX: 813.882.7715
Certificate of Authorization No. 3882
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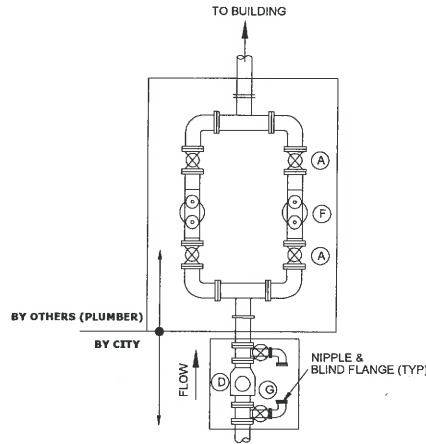
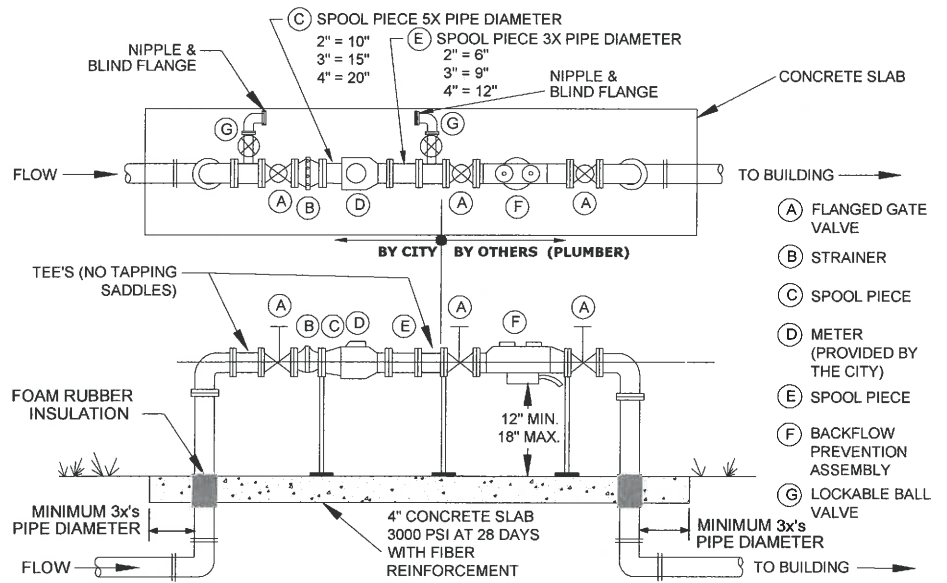
DESCRIPTION

REV#

DATE

BY

PROJECT MANAGER: Holly Kruttschnitt, P.E. FIELD BOOK INFORMATION: C:\PW\WORK\KORBY\0059570\CDT-PLTS-VENICE PHA-D1.01 TO D1.02 - DWG - D1.02 - PLOTTED 1/26/2017 10:30 AM BY DABBY, KRISTIN

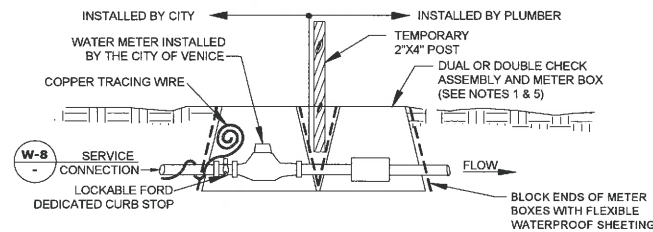


OPTIONAL PARALLEL CONFIGURATION
(TO PROVIDE UNINTERRUPTED WATER SERVICE FOR BACKFLOW ASSEMBLY, REPAIR & TESTING)

- 1.) EITHER 90°-DEGREE OR 45°-DEGREE FITTINGS MAY BE USED WITH THE REQUIRED LENGTH OF RESTRAINED JOINT FITTINGS.
- 2.) BACKFLOW PREVENTION ASSEMBLY TYPE SHALL BE DETERMINED BY THE CITY OF VENICE UTILITIES DEPARTMENT'S MOST CURRENT CROSS-CONNECTION CONTROL PROGRAM.
- 3.) 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.
- 4.) ALL CONCRETE PENETRATIONS SHALL REQUIRE PIPE TO BE WRAPPED WITH INSULATING MATERIAL.
- 5.) VALVES SHALL BE FULL PORTED FULL FLOW BALL VALVES OR RESILIENT WEDGE NON-RISING STEM GATE VALVES.
- 6.) ALL METERS 1 1/2" & UP WILL HAVE FLANGES.
- 7.) PIPE BETWEEN TAP & ISOLATION VALVE SHALL BE C900 PVC.
- 8.) THE WATER METER MAY MATCH THE BACKFLOW AND ASSEMBLY PIPE SIZE.
- 9.) 2" AND SMALLER METERS REQUIRE A LOCKABLE CURB STOP. LARGER THAN 2" METERS WILL HAVE A FLANGED WHEEL HANDLE RESILIENT WEDGE GATE VALVE.
- 10.) NO SPOOL PIECE REQUIRED FOR 3/4", 1", OR 1 1/2".
- 11.) ALL COMMERCIAL AND MULTI FAMILY UNIT METERS MUST BE ABOVE GRADE. REUSE METERS 2" AND LESS MAY BE BELOW GROUND.
- 12.) BACKFLOW PREVENTION ASSEMBLY AND BYPASS ARE NOT REQUIRED FOR REUSE METER ONLY.
- 13.) BACKFLOW PREVENTION ASSEMBLIES SHALL NOT BE BY-PASSED.
- 14.) NO BRANCH OR TEE SERVICE CONNECTIONS, OTHER THAN THE UTILITIES METER BY-PASS RETURN TEE, SHALL EXIST BETWEEN THE WATER METER AND BACKFLOW PREVENTER.
- 15.) THE ENGINEER OF RECORD SHALL SUBMIT METER SIZING CALCULATIONS BASED ON SERVICE DEMAND PER AWWA M-22 AND SUBJECT TO APPROVAL BY THE UTILITY DEPARTMENT.
- 16.) PARALLEL BACKFLOW ASSEMBLY PERMITTED TO ALLOW FOR UNINTERRUPTED SERVICE.

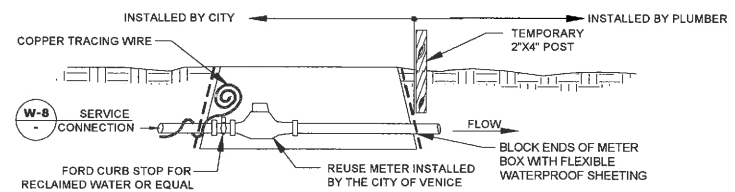
METER SIZE (IN.)	BY-PASS SIZE (IN.)
3/4"	NO BYPASS
1"	NO BYPASS
1 1/2"	1"
2"	1 1/2"
3"	2"
4"	3"

WATER & REUSE METER & BACKFLOW PREVENTION ASSEMBLY
ABOVE GROUND COMMERCIAL/MULTI-UNIT/SINGLE SERVICE/MASTER METER
(WITH BY-PASS AROUND METER ONLY) N.T.S.



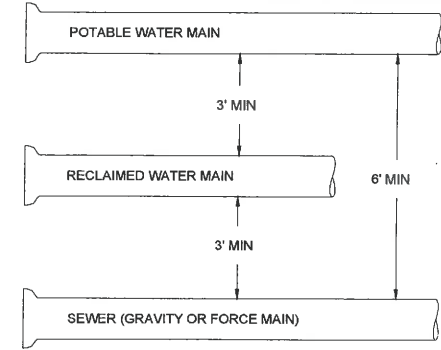
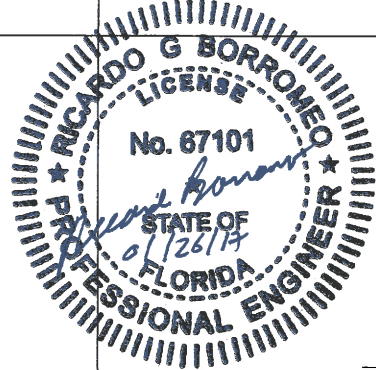
- 1.) THE POTABLE WATER SYSTEM SHALL USE A BROOKS MODEL# 1220 BLACK PLASTIC METER BOX WITH METAL READER AND BLACK SOLID RODS OR APPROVED EQUAL FOR BOTH METER AND CHECK VALVE.
- 2.) CENTER METER IN BOX AND BLOCK ENDS OF BOX TO PREVENT DIRT FROM ENTERING WITH FLEXIBLE WATERPROOF SHEETING.
- 3.) COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE USED AND COLOR CODED TO REFLECT WHAT THE PIPE CARRIES (BLUE = WATER).
- 4.) LOCKING CURB STOP MUST BE LOCATED IN BOX AND SHALL BE LOCKED IN THE CLOSED POSITION WITH A LOCK SUPPLIED BY THE UTILITIES DEPARTMENT AT THE TIME OF SERVICE LINE INSTALLATION. LOCK TO BE REMOVED BY THE UTILITIES DEPARTMENT ONLY AFTER STANDARD DETAIL REQUIREMENTS ARE MET. DEDICATED FIRE SERVICE CURB STOPS SHALL BE LOCKED IN THE OPEN POSITION BY THE UTILITIES DEPARTMENT AFTER STANDARD DETAIL REQUIREMENTS ARE MET. ALL CURB STOPS SHALL BE ORIENTED WITH THE OPERATING NUT ON TOP AND ACCESSIBLE FOR SERVICE BY A CURB STOP KEY.
- 5.) DUAL OR DOUBLE CHECK ASSEMBLY, WHEN REQUIRED BY THE CITY OF VENICE UTILITIES DEPARTMENT'S MOST CURRENT CROSS-CONNECTION CONTROL PROGRAM, SHALL BE INSTALLED BY A PLUMBER IN A SEPARATE BOX IMMEDIATELY AFTER THE WATER METER BOX. TEST PORTER SHALL BE PLUGGED WITH NON-METALLIC OR PLASTIC PLUGS.
- 6.) RESIDENTIAL FIRE SERVICE SPRINKLERS INCORPORATED INTO DOMESTIC RESIDENTIAL PLUMBING SHALL BE SERVICED BY AN ELECTRONIC WATER METER MEETING NFPA STANDARDS FOR FLOW AND PRESSURE LOSS.
- 7.) THE ENGINEER OF RECORD SHALL SUBMIT METER SIZING CALCULATIONS BASED ON SERVICE DEMAND PER AWWA M-22 AND SUBJECT TO APPROVAL BY THE UTILITIES DEPARTMENT.

RESIDENTIAL WATER & FIRE METER
(RESIDENTIAL USE ONLY)
N.T.S.



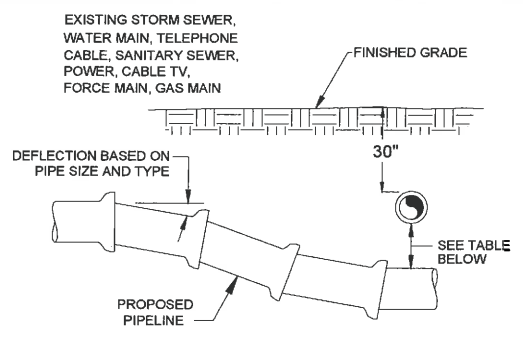
- 1.) THE REUSE SYSTEM SHALL USE A BROOKS # 1419 OR APPROVED EQUAL, THE LID SHALL BE STAMPED "NON-POTABLE" & "DO NOT DRINK" IN BOTH ENGLISH AND SPANISH AND MUST BE LOCKABLE, METER BOX AND LID SHALL BE PURPLE (COLOR PANTONE 522C).
- 2.) CURB STOP MUST BE LOCATED INSIDE THE METER BOX AND SHALL BE LOCKED IN THE CLOSED POSITION WITH A LOCK SUPPLIED BY THE UTILITIES DEPARTMENT AT THE TIME OF SERVICE LINE INSTALLATION. LOCK TO BE REMOVED BY THE UTILITIES DEPARTMENT ONLY AFTER STANDARD DETAIL REQUIREMENTS ARE MET. ALL CURB STOPS SHALL BE ORIENTED WITH THE OPERATING NUT ON TOP AND ACCESSIBLE FOR SERVICE BY A CURB STOP KEY.
- 3.) CENTER METER IN BOX AND BLOCK ENDS OF BOX TO PREVENT DIRT FROM ENTERING WITH FLEXIBLE WATERPROOF SHEETING.
- 4.) COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES. (PURPLE = REUSE)

REUSE METER
RESIDENTIAL & COMMERCIAL 2" AND BELOW
N.T.S.



MINIMUM HORIZONTAL SEPARATION DISTANCES (FT)
(OUTSIDE OF PIPELINE TO OUTSIDE OF PIPELINE)

	WATER MAIN	FORCE MAIN	SANITARY SERVICE	REUSE MAIN	STORM WATER	OTHER UTILITIES (TELEPHONE, CABLE, ETC.)
WATER MAIN	3	6	6	3	3	3
FORCE MAIN	6	3	3	3	3	3
SANITARY SEWER	6	3	3	3	3	3
REUSE MAIN	3	3	3	3	3	3
STORM WATER	3	3	3	3	3	3
OTHER UTILITIES	3	3	3	3	3	3

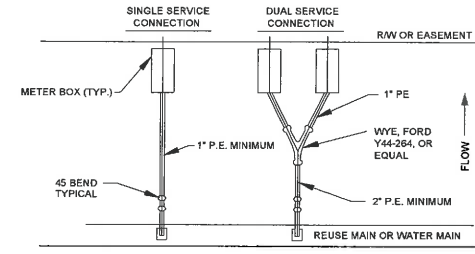


MINIMUM VERTICAL SEPARATION DISTANCES (IN)
(OUTSIDE OF PIPELINE TO OUTSIDE OF PIPELINE)

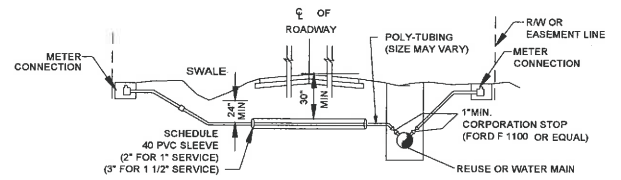
	WATER MAIN	FORCE MAIN	SANITARY SERVICE	REUSE MAIN	STORM WATER	OTHER UTILITIES (TELEPHONE, CABLE, ETC.)
WATER MAIN	6	12	12	6	6	6
FORCE MAIN	12	6	6	6	6	6
SANITARY SEWER	12	6	6	6	6	6
REUSE MAIN	6	6	6	6	6	6
STORM WATER	6	6	6	6	6	6
OTHER UTILITIES	6	6	6	6	6	6

- 1.) MAXIMUM JOINT DEFLECTION SHALL BE 90% OF MANUFACTURER'S RECOMMENDATION.
- 2.) WHEREVER POSSIBLE, THE LAYOUT OF UTILITIES SHALL PLACE SANITARY SEWER AND SEWER FORCE MAINS BELOW RECLAIMED MAINS AND BELOW WATER MAINS, RESPECTIVELY. WHERE WATER MAINS ARE ABOVE GRAVITY SEWERS OR WASTEWATER FORCE MAINS, A VERTICAL CLEARANCE OF 6 INCHES IS ACCEPTABLE.
- 3.) ACCEPTABLE VARIANCES:
 - A. WHERE HORIZONTAL SEPARATION CANNOT BE MAINTAINED, C900 DR14 PVC PIPE SHALL BE USED FOR ONE OF THE PIPELINES.
 - B. WHERE VERTICAL CLEARANCE CANNOT BE MAINTAINED, ONE FULL LENGTH OF DR14 C900 PIPE SHALL BE INSTALLED CENTERED AT THE POINT OF CROSSING.
 - C. WHERE 36" MINIMUM DEPTH OF COVER CANNOT BE MAINTAINED, SPECIAL PROTECTION OR PIPE MATERIAL UPGRADE MAY BE REQUIRED, AT THE DISCRETION OF THE UTILITY DEPARTMENT.
- 4.) NO WATER PIPE SHALL PASS THROUGH, OR COME IN CONTACT WITH ANY PART OF A SANITARY MANHOLE OR STORMWATER STRUCTURE.

UTILITY CONFLICT & SEPARATION DETAIL
N.T.S.



RESIDENTIAL METER CONNECTION DETAIL
N.T.S.



- 1.) TAPS SHALL NOT BE CLOSER THAN TWO FEET APART OR WITHIN TWO FEET OF ANY JOINT.
- 2.) TAPS IN MULTIPLE GROUPS SHALL NOT BE MADE IN THE SAME LONGITUDINAL LINE OF THE PIPE BUT MUST BE STAGGERED VERTICALLY.
- 3.) TAPPING SADDLE SHALL BE EPOXY COATED, DUCTILE IRON BODY WITH STAINLESS STEEL BAND(S) AND HARDWARE.
- 4.) BRASS FITTINGS AND BALL VALVES SHALL BE FORD F1100 OR EQUAL.
- 5.) ALL SERVICES SHALL HAVE COPPER TRACING WIRE.
- 6.) ALL SLEEVE ENDS SHALL BE SEALED WITH FOAM SEAL.
- 7.) INSERT STIFFENERS WILL NOT BE ACCEPTABLE.
- 8.) ALL WATERWORKS BRASS MUST BE LEAD FREE.
- 9.) METER SIZE AND SERVICE LINE PIPING DOWNSTREAM OF METER SHALL BE MINIMALLY SIZED BASED ON FIXTURE CALCULATIONS AS DETERMINED BY THE EOR.

WATER & REUSE SERVICE CONNECTION
N.T.S.

CITY OF VENICE, FLORIDA
PHASE 4
WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION
POTABLE WATER DETAILS

ISSUED FOR: 50% DESIGN 8/7/15 RB
100% DESIGN 10/2/15 RB
PERMITS 11/23/15 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

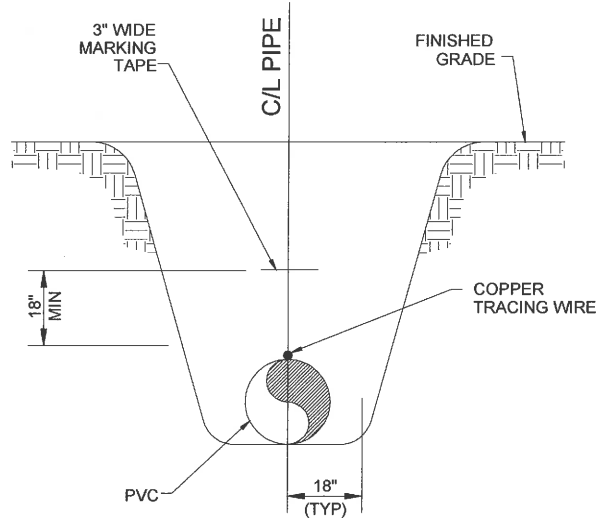
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Certificate of Authorization No. 3952
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VENICE, FLORIDA
WATERMAIN REPLACEMENT PROGRAM - PHASE IV

PROJECT MANAGER: Holly Kruttschnitt, P.E.
C:\P\WORK\K04RBY\DOSS9570\DOT-PLTS-VE-NICE PHA4-D1.01 TO D1.06-DWG - D1.03 - PLOTTED 1/26/2017 10:30 AM BY DARBY, KRISTIN



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.

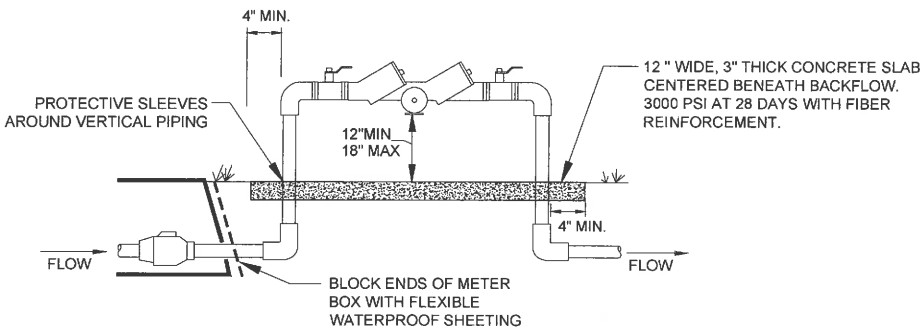
SERVICE	COLOR	MATERIAL/CLASS
POTABLE WATER MAIN	BLUE	AWWA C900 PVC / DR 18 FUSIBLE C900 PVC / DR 18 HDPE PPI PE 3408 / DR 11 (DUCTILE IRON PIPE SIZE)
RAW WATER MAIN	WHITE	
REUSE MAIN	PURPLE	
FORCE MAIN (MIN. 4" DIAMETER)	GREEN	PE (POLYTUBING) / DR 9
WATER SERVICE	BLUE	
REUSE SERVICE	PURPLE	PE (POLYTUBING)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

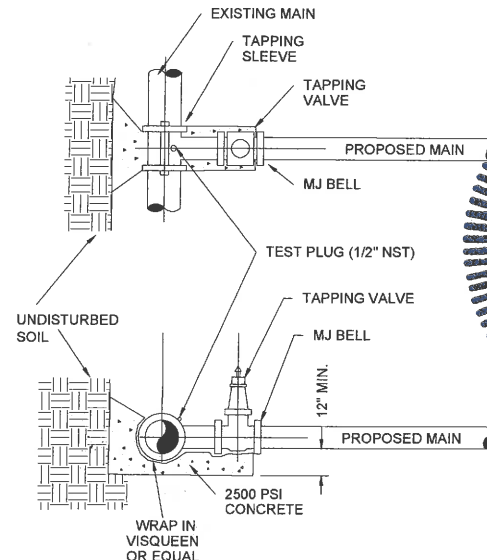
(RESIDENTIAL, NOT MASTER METERED)

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"	20"	18"	9"	18"	18"	12"	15"	21"	12"	12"	21"	12"	18"	18"	9"
8"	29"	20"	12"	20"	20"	15"	15"	21"	12"	12"	21"	12"	20"	20"	12"
10" & 12"	40"	30"	15"	33"	30"	18"	20"	30"	15"	15"	30"	15"	30"	30"	15"
14"	50"	36"	18"	36"	36"	18"	26"	36"	18"	18"	36"	18"	36"	36"	18"
16" & 18"	56"	40"	18"	40"	40"	21"	30"	40"	18"	20"	40"	18"	40"	40"	18"
20"	70"	40"	21"	70"	40"	21"	39"	40"	21"	26"	40"	21"	60"	40"	21"
24"	80"	50"	24"	80"	50"	24"	40"	50"	24"	29"	50"	24"	70"	50"	24"

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

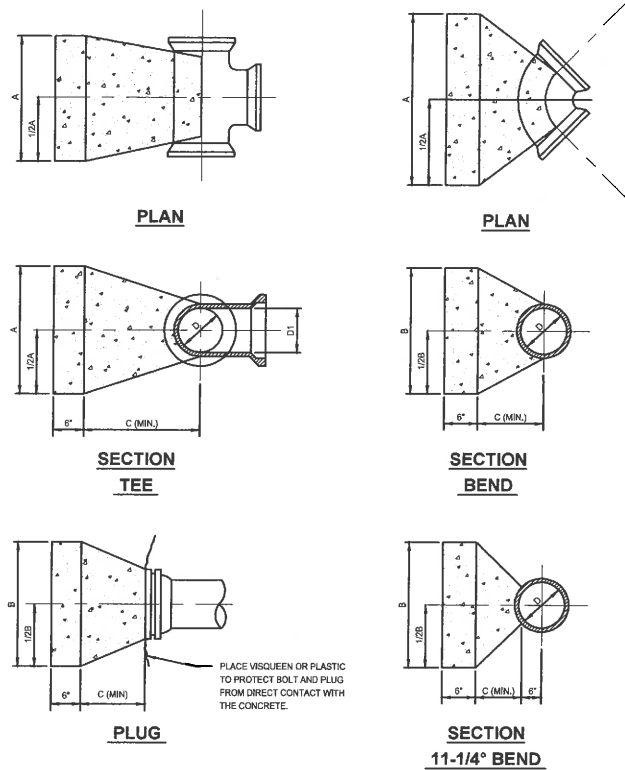
STANDARD THRUST BLOCKS



- 1.) EXISTING MAIN SHALL NOT BE TAPPED UNTIL THE ASSEMBLED SLEEVE AND VALVE ARE TESTED IN PLACE AT A MINIMUM OF 150 PSI FOR THIRTY MINUTES.
- 2.) UPON SUCCESSFUL TAPPING SLEEVE PRESSURE TEST (NOTE 1), THE THRUST BLOCK SHALL BE POURED AND HAVE SET FOR 24 HRS PRIOR TO TAPPING. READY-MADE THRUST BLOCKS CAN BE USED WITH CITY APPROVAL.
- 3.) STAINLESS STEEL TAPPING SLEEVE SHALL BE FORD. ALL HARDWARE SHALL BE STAINLESS STEEL. GASKETS SHALL BE VIRGIN SBR COMPOUND.
- 4.) GATE VALVES SHALL BE RESILIENT WEDGE-TYPE MANUFACTURED BY MUELLER OR AMERICAN VALVE. ALL GATE VALVES SHALL BE FUSION BONDED EPOXY COATED (INTERIOR AND EXTERIOR) MEET ANSI/AWWA C550, AND BE NSF61 CERTIFIED.
- 5.) TAPPING SLEEVES MAY ONLY BE USED WHEN THE TAP DIAMETER IS AT LEAST ONE PIPE SIZE SMALLER THAN THE DIAMETER OF THE MAIN BEING TAPPED.

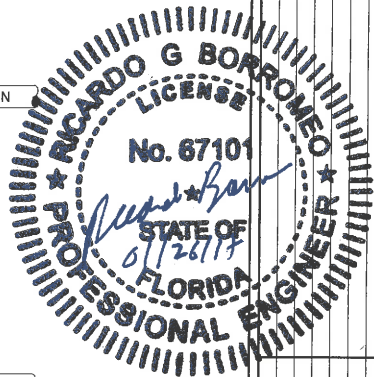
TAPPING SLEEVE & VALVE DETAIL

N.T.S.



THRUST BLOCK DETAILS

NO SCALE



NOT VALID FOR CONSTRUCTION
UNLESS SIGNED AND DATED:

WADETRIM
8010 Woodbine Center Boulevard
Suite 1200, Tampa, FL 33614
Phone: (813) 988-9504 FAX: (813) 988-7715
www.wadetrims.com

CITY OF VENICE, FLORIDA
PHASE 4
WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION
POTABLE WATER DETAILS



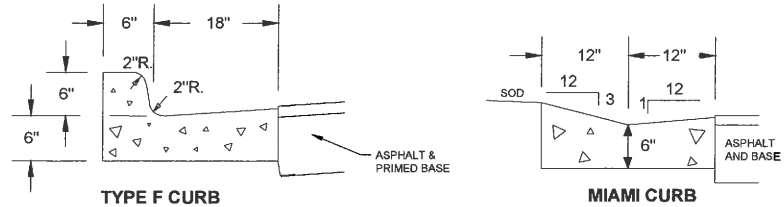
ISSUED FOR: DATE: BY:
50% DESIGN 8/7/15 RB
100% DESIGN 10/2/15 RB
PERMITS 11/25/15 RB
BID SET 1/5/16 RB
100% DESIGN 6/21/16 RB
(REVISED)
BID SET 8/24/16 RB
(REVISED)
CONSTRUCTION 1/25/17 RB
JOB NO.
VEN2018-01M

SHEET

D1.03

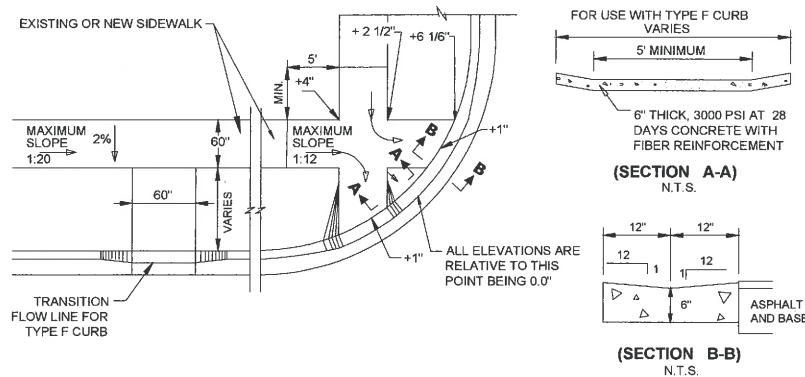
© Wade Trim Group, Inc. VENICE, FLORIDA WATERMAIN REPLACEMENT PROGRAM - PHASE IV

PROJECT MANAGER: Holly Kremers P.E.
C:\PW\WORK\XDRARY\0059570\CDT-PLTS-VE-NICE PHIS4-D1.01 TO D1.06-DWG - D1.04 - PLOTTED 1/26/2017 10:30 AM BY DARBY, KRISTIN



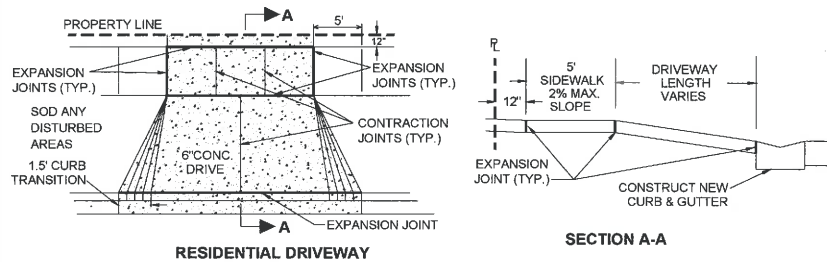
- 1.) ALL STREETS SHALL HAVE A TWO-FOOT WIDE CONCRETE (3000 PSI AT 28 DAYS WITH FIBER REINFORCEMENT) CURB AND GUTTER, AND MEET OR EXCEED FDOT SPECIFICATIONS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

CURB DETAIL
N.T.S.



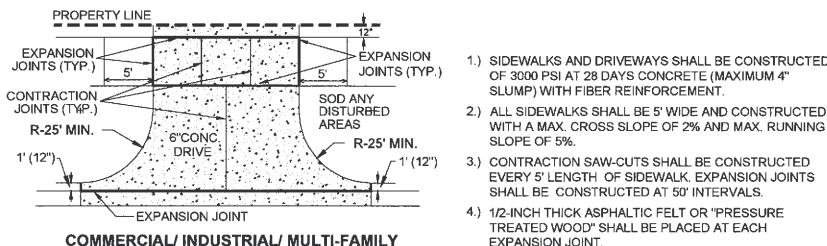
- 1.) ALL CONCRETE RAMPS SHALL BE 4" THICK, INCREASING TO 6" THICK WITHIN 48" OF THE CURB
- 2.) ALL CONNECTIONS TO AN EXISTING SIDEWALK SHALL BE AT AN EXPANSION OR CONTRACTION JOINT
- 3.) THE MAXIMUM RAMP SLOPE SHALL BE 1:12, FOR A VERTICAL DISTANCE OF NOT MORE THAN 6 INCHES.
- 4.) THE MAXIMUM RUNNING SIDEWALK SLOPE SHALL BE 1:20, AND MAXIMUM CROSS SLOPE SHALL BE 2%.
- 5.) ALL SIDEWALK RAMPS AND STREET CONNECTIONS WITHIN THE PUBLIC ROW SHALL HAVE A TACTILE SURFACE.
- 6.) TACTILE SURFACES SHALL MEET THE MOST CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS AND SHALL BE BRICK RED IN COLOR.
- 7.) ALL MATERIALS & METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE FDOT, "STANDARDS FOR ROAD & BRIDGE CONSTRUCTION". IN ADDITION, CONCRETE SHALL BE 3000 PSI AT 28 DAYS WITH A MAXIMUM 4" SLUMP AND FIBER REINFORCEMENT.

SIDEWALK RAMP DETAIL
N.T.S.



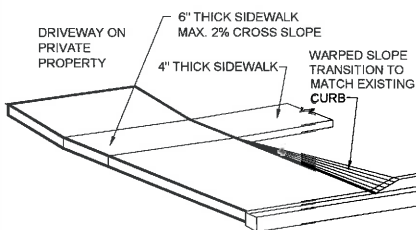
RESIDENTIAL DRIVEWAY

SECTION A-A



COMMERCIAL/ INDUSTRIAL/ MULTI-FAMILY

- 1.) SIDEWALKS AND DRIVEWAYS SHALL BE CONSTRUCTED OF 3000 PSI AT 28 DAYS CONCRETE (MAXIMUM 4" SLUMP) WITH FIBER REINFORCEMENT.
- 2.) ALL SIDEWALKS SHALL BE 5' WIDE AND CONSTRUCTED WITH A MAX. CROSS SLOPE OF 2% AND MAX. RUNNING SLOPE OF 5%.
- 3.) CONTRACTION SAW-CUTS SHALL BE CONSTRUCTED EVERY 5' LENGTH OF SIDEWALK. EXPANSION JOINTS SHALL BE CONSTRUCTED AT 50' INTERVALS.
- 4.) 1/2-INCH THICK ASPHALTIC FELT OR "PRESSURE TREATED WOOD" SHALL BE PLACED AT EACH EXPANSION JOINT.
- 5.) EXISTING CURB AND GUTTER SHALL BE REMOVED ONLY AT EXISTING JOINTS.
- 6.) DRIVEWAY WIDTH AND LOCATION SHALL COMPLY WITH ZONING CODES, SECTIONS 122-446, 62-64, 62-65.
- 7.) DRIVEWAY SLOPES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FDOT, "ROADWAY AND TRAFFIC DESIGN STANDARDS", INDEX 515.



6" CONCRETE RESIDENTIAL DRIVEWAY

DRIVEWAY & SIDEWALK DETAIL
N.T.S.

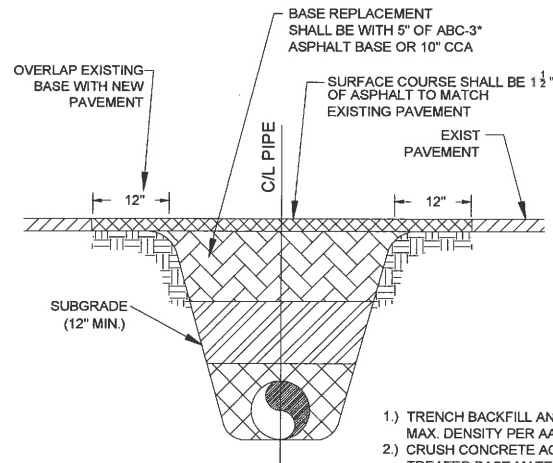
A.) HEAVY DUTY: COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WITHIN PRIMARY ACCESSWAYS, PARKING LOTS, ETC. WITH EXPOSURE TO TRUCK TRAFFIC		
B.) LIGHT DUTY: RESIDENTIAL SUBDIVISIONS AND COMMERCIAL DEVELOPMENTS WITHIN LOW VOLUME ACCESSWAYS, PARKING LOTS, ETC. (LESS THAN 5% TRUCK TRAFFIC)		
	A	B
SUBGRADE - TYPE B STABILIZED LBR 40 MIN.	12"	8"
ABC3 - ASPHALT BASE	5"	4"
CTB	10"	7"
CCA	10"	7"
ASPHALTIC CONCRETE	1 1/2" OF S-1	1 1/2" OF S-1/S-3

CONCRETE PAVEMENT FOR PARKING LOTS ONLY:

SUBGRADE - 12" TYPE B STABILIZED LBR 40 MIN.

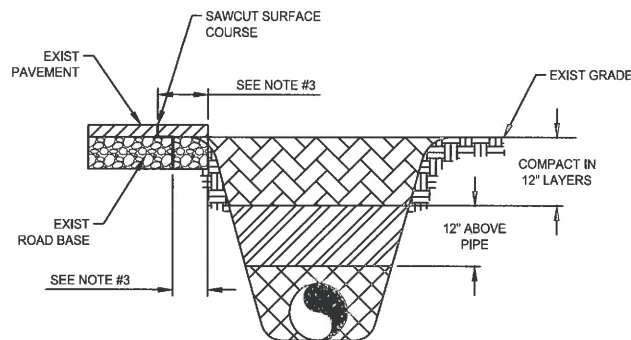
PAVEMENT - 6" CONCRETE 3000PSI @28 DAYS WITH MAX. 4" SLUMP & FIBER REINFORCEMENT.

PAVEMENT STANDARD
N.T.S.



- 1.) TRENCH BACKFILL AND SUBGRADE TO BE COMPACTED TO 98% OF MAX. DENSITY PER AASHTO T-180.
- 2.) CRUSH CONCRETE AGGREGATE MUST HAVE AN LBR ≥ 150. CEMENT TREATED BASE MATERIAL MUST YIELD COMPRESSIVE STRENGTH WITHIN THE RANGE OF 175 TO 275 PSI. SHELL IS NOT AN ACCEPTABLE BASE MATERIAL.

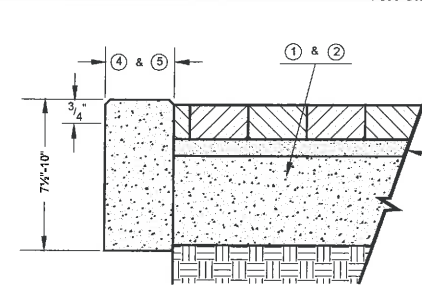
PAVEMENT RESTORATION DETAIL
N.T.S.



NOTES:

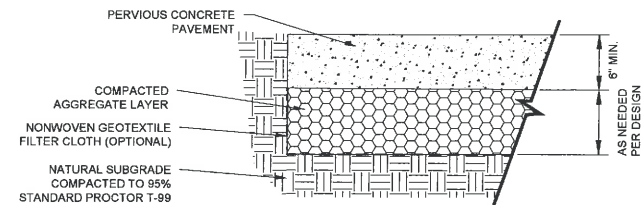
1. TRENCHED LOCATED UNDER PAVEMENT OR INSIDE THE 2' HORIZONTAL TO 1' VERTICAL SLOPE, DOWNWARD FROM THE ROADWAY SHOULDER OR THE BACK OF CURB AND FROM THE SPRING LINE TO THE BOTTOM OF SUBGRADE OR THE FINISHED SURFACE OF THE EMBANKMENT, AS APPROPRIATE, SHALL BE COMPACTED TO A DENSITY OF 98% AS DETERMINED BY AASHTO T-180.
2. TRENCHES LOCATED OUTSIDE OF THE 2' HORIZONTAL TO 1' VERTICAL SLOPE DOWNWARD FROM THE ROADWAY SHOULDER OR THE BACK OF CURB AND WHERE NO VEHICULAR TRAFFIC WILL PASS OVER THE TRENCHES, BACKFILL SHALL BE COMPACTED TO A DENSITY APPROXIMATELY EQUAL TO THAT SOIL ADJACENT TO THE TRENCH BUT NOT LESS THAN 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99 METHOD-C.
3. REMOVAL AND REPLACEMENT OF PAVEMENT AND ROAD BASE SHALL BE MADE IN ACCORDANCE WITH APPLICABLE LOCAL REGULATIONS.

TYPICAL TRENCH BACKFILL DETAIL
SCALE: NONE



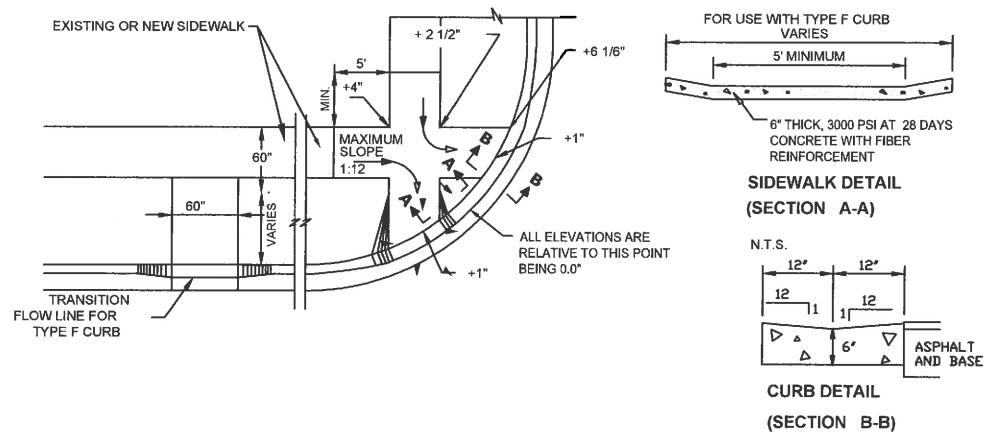
- 1.) 4" POURED CONCRETE 3,000 P.S.I. @ 28 DAYS OR COMPACTED CCA BASE FOR SIDEWALK.
- 2.) 6" POURED CONCRETE 3,000 P.S.I. @ 28 DAYS OR COMPACTED CCA BASE FOR DRIVEWAY.
- 3.) 1" MIN. TO 1 1/2" MAX. SAND BEDDING.
- 4.) 6" POURED CONCRETE BOND BAND SHALL BE INSTALLED WHERE CURB IS NOT PRESENT WITH 3/4" REVEAL AT EDGE OF TRAVEL WAY.
- 5.) 6" POURED CONCRETE BOND BAND SHALL BE INSTALLED ON ALL OUTSIDE EDGES WHERE NO EXISTING OR NEW SOLID STRUCTURE IS PRESENT TO HOLD PAVERS IN PLACE.
- 6.) ALL PAVERS WITHIN TRAFFIC AREAS MUST BE TRAFFIC BEARING.
- 7.) A RIGHT OF WAY USE PERMIT AND AN APPROVED LICENSE AGREEMENT MUST BE OBTAINED IF PAVERS ARE TO BE INSTALLED IN CITY RIGHT OF WAY.
- 8.) PAVER INSTALLATION SPECIFICATIONS APPLY TO PUBLIC AND PRIVATE IMPROVEMENTS EXCEPT FOR NON-TRAFFIC BEARING SIDEWALKS CONSTRUCTED ENTIRELY ON PRIVATE PROPERTY.

BRICK PAVER INSTALLATION DETAIL
N.T.S.



- 1.) FOR USE IN PARKING AREAS AND LOW VOLUME ACCESSWAYS ONLY.
- 2.) ENGINEER OF RECORD SHALL SUBMIT PERVIOUS PAVEMENT DESIGN AND SPECIFICATIONS BASED ON THE SITE SPECIFIC SOIL CONDITIONS, STORMWATER STORAGE REQUIREMENTS AND THE ANTICIPATED TRAFFIC LOADINGS.
- 3.) PERVIOUS CONTRACTORS SHALL BE NRMCA CERTIFIED CRAFTSMEN.
- 4.) PERVIOUS PRODUCER/SUPPLIERS AND TESTING FIRMS SHALL USE NRMCA CERTIFIED TECHNICIANS.
- 5.) POROUS ASPHALT MAY BE USED AS AN ALTERNATIVE MATERIAL AS DESIGNED BY THE EOR.

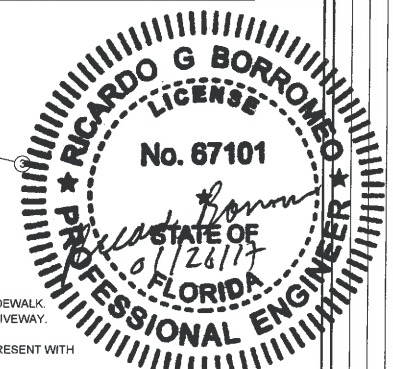
PERVIOUS CONCRETE PAVEMENT DETAIL
N.T.S.



NOTES:

- 1.) ALL CONCRETE RAMPS SHALL BE 4" THICK, INCREASING TO 6" THICK WITHIN 48" OF THE CURB
- 2.) ALL CONNECTIONS TO AN EXISTING SIDEWALK SHALL BE AT AN EXPANSION OR CONTRACTION JOINT
- 3.) WHERE PEDESTRIAN MOVEMENT CROSSES RAMP, THE MAXIMUM SLOPE SHALL BE 1:12
- 4.) ALL RAMPS AND WALKS WITHIN THREE FEET OF A FREQUENTLY USED DRIVE (GREATER THAN DUPLEX) SHALL HAVE A TACTILE SURFACE. RAMPS ARE DEFINED AS WALKS WITH A SLOPE GREATER THAN 1:12 AND/OR ADJACENT TO CURBS.
- 5.) TACTILE SURFACES SHALL MEET THE MOST CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS AND SHALL BE BRICK RED IN COLOR.
- 6.) ALL MATERIALS & METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE FDOT, "STANDARDS FOR ROAD & BRIDGE CONSTRUCTION". IN ADDITION, CONCRETE SHALL BE 3000 PSI AT 28 DAYS WITH A MAXIMUM 4" SLUMP AND FIBER REINFORCEMENT.

TYPICAL HANDICAPPED RAMP



NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:
WADETRIM
8010 Woodland Center Boulevard
Suite 1200, Tampa, FL 33614
Phone: (813) 880-7215
Fax: (813) 880-7215
www.wadetrtrim.com
Building relationships on a foundation of excellence

CITY OF VENICE, FLORIDA
PHASE 4
WATER MAIN REPLACEMENT PROGRAM
ISSUED FOR CONSTRUCTION
PAVEMENT AND SIDEWALK DETAILS



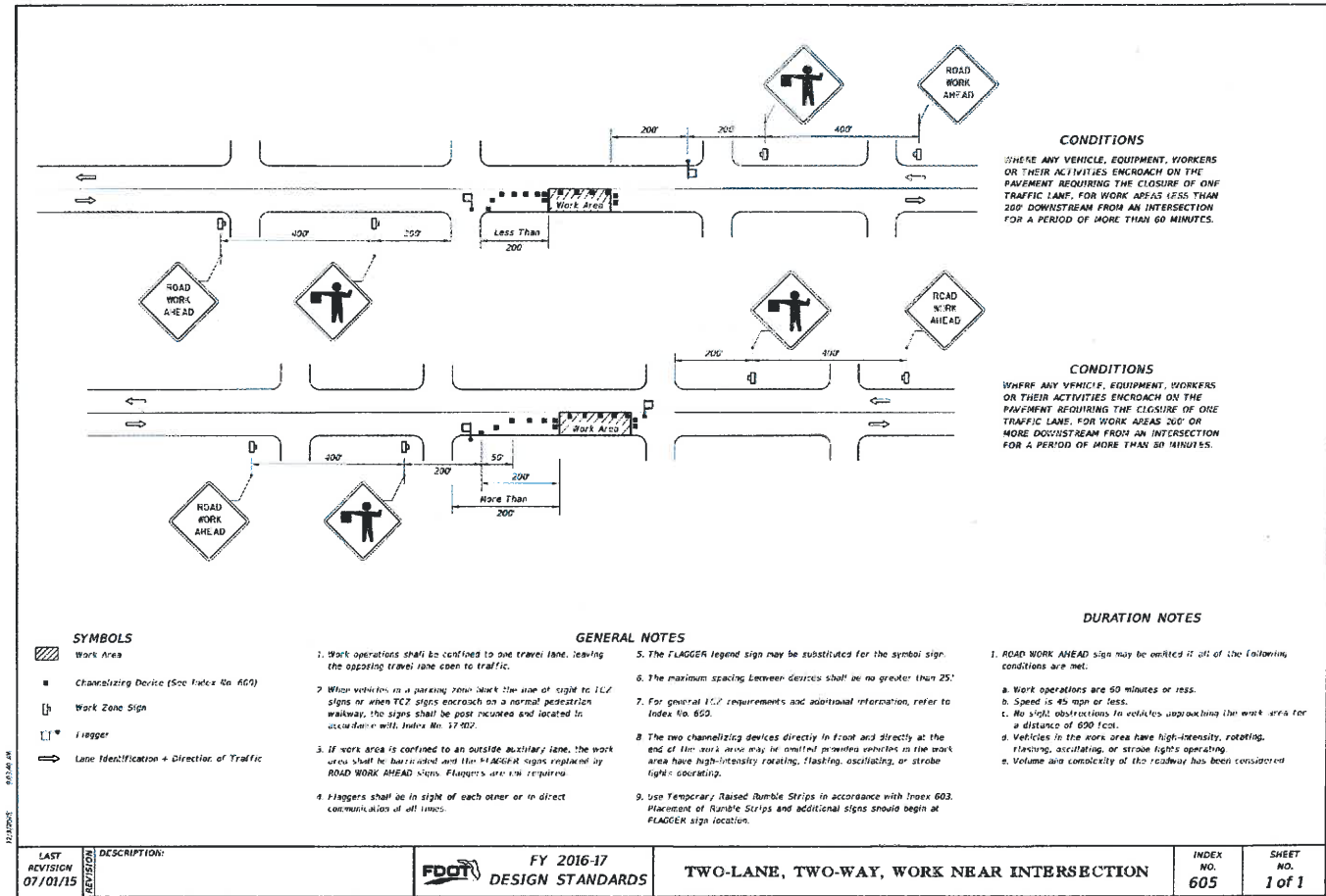
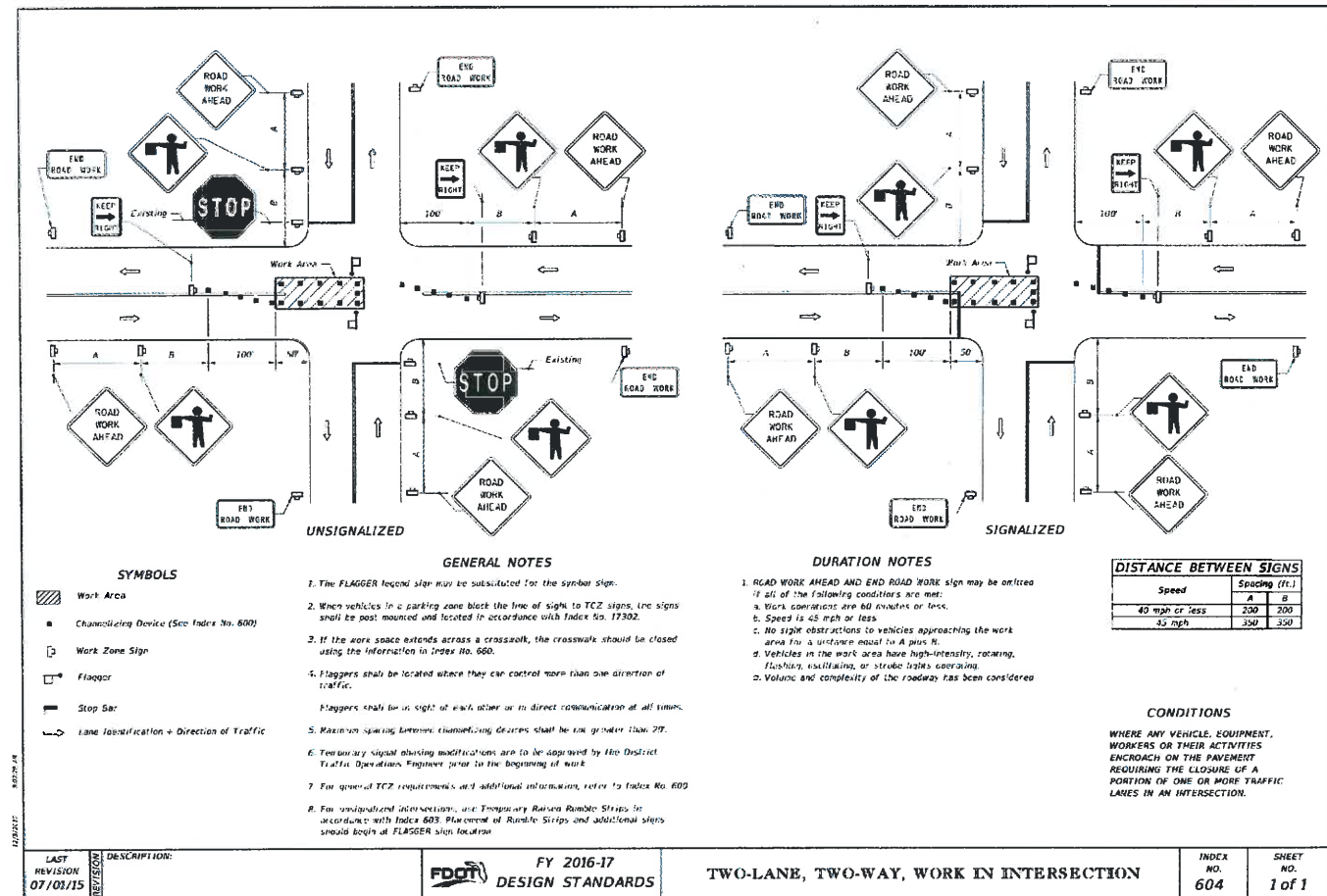
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100% DESIGN 10/2/15 RB
PERMITS 11/25/15 RB
BID SET 1/5/16 RB
100% DESIGN (REVISED) 6/21/16 RB
BID SET (REVISED) 8/24/16 RB
CONSTRUCTION 1/26/17 RB

JOB NO. VEN2018-01M

SHEET

D1.04

VENICE, FLORIDA WATERMAIN REPLACEMENT PROGRAM - PHASE IV



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

