# City of Oakley ADDENDUM NO. 2 to contract documents for STORM DRAIN IMPROVEMENT PROJECT, CIP # 183

BID OPENING DATE REMAINS: December 8, 2016 2:00 PM

Notice is hereby given that the following clarifications and revisions are made to the above referenced contract documents:

# Plan Sheet 3 Updates

- 1) Notes 3, 25, 27, and 28 are removed from the Sheet 3 of the Plans.
- 2) Contractor to install PVC coated copper service line per Diablo Water District Note 11 on Sheet 3 of the Plans

## **Updates to the Specifications pages:**

- 1) Update to Part I Specifications
  - A. UNIT PRICE SCHEDULE Pg. 4
- 2) Update to Part III Specifications
  - 10-1.11 Storm Drain Retention Structures Pg. 15
  - 10-1.12 Storm Drain Piping Pg. 15
  - 10-1.13 Aggregate Baserock & Gravel Paving Pg. 16

All bidders shall acknowledge receipt and acceptance of Addendum No. 2 by signing in the space provided at the end of this Addendum and submitting the signed addendum with their proposal.

Jason Kabatin Associate Engineer December 6, 2016

Contractor Signature	8
Date	
Company Name	

Addendum No. 2 Storm Drain Improvement Project – CIP 183 City of Oakley Page 1 of 5

## A. UNIT PRICE SCHEDULE

The undersigned, Pursuant to and in compliance with your Notice to Contractors and the Contract Documents relating to the CIP 183, 2016-17 STORM DRAIN IMPROVEMENT PROJECT, including Addenda No. \_\_\_\_\_\_, as Bidder, declares that the only persons or parties interested in this proposal as principals are those named herein; that this proposal is made without collusion with any other person, firm, or corporation; that he has carefully examined the location of the proposed work, the annexed proposed form of contract, and the plans therein referred to; and he proposes and agrees if this proposal is accepted that he will contract with the City of Oakley in the form of the scope of the contract annexed hereto, to provide all necessary machinery, tools, apparatus, and other means of construction, and to do all the work and furnish all the materials specified in the contract, in the manner and time therein prescribed, and according to the requirements of the Engineer as therein set forth, and that he will take in full payment therefore the following item prices, to wit:

#### **BID ITEMS**

ITEM NO.	DESCRIPTION OF ITEM	EST. QTY	UNIT OF MEASURE	UNIT PRICE	TOTAL
1.	Traffic Control	1	LS		
2.	Water Pollution Control	1	LS		
3.	Clear & Grub, Earthwork	1	LS		
4.	Hot Mix Asphalt	20	TON		
5.	Precast Concrete Structures	1	LS		
6.	Storm Drain Retention Chambers & Piping	1	LS		
7.	Disconnect Domestic Water Service and turn off Corp Stop	1	LS		
8	Install New Corp Stop and Domestic Water Service	1	LS		
9	Baserock and Gravel Paving	1	LS		

City shall have the right to remove Bid Items 7-8 from the contract scope of work and have those items of work performed by Diablo Water District's (DWD) contractor. City's contractor shall coordinate and provided for DWD's contractor to perform traffic control and perform the work indicated in Bid Items 7-8 that may have been removed. City's contractor shall provide ten (10) consecutive calendar days working period, for DWD's contractor to perform the work in Bid Items 7-8, if the bid item work is performed by DWD's contractor. In the event DWD's contractor performs the work in Bid Items 7-8, DWD's contractor shall be responsible for the AC patch paving around the valve cans. City's contractor shall not be entitled to any additional time extension or compensation, including overhead or profit, in the event any of Bid Items 7-8 are removed from the project scope and the amounts entered in the Bid Schedule for the remainder of the work shall remain unchanged. City shall notify City's contractor if it will be removing any of the items from the scope of work within ten (10) working days after the Notice of Reword.

	Total Bid (Items 1-9) \$(Numbers)	
	(Namboro)	Dolla
(Written)		

configured as shown on the approved plans.

The chamber shall have a continuously-curved, arch-shaped section profile. The START and END chamber integral end wall shall be structurally suitable for cutting and inserting inlet pipes 10 inches in diameter. The chamber shall be a corrugated, open-bottom design with 0.4inches wide x 1.5inches tall slotted side wall openings for lateral flow and top vent orifices for hydraulic pressure equalization. Corrugation valleys and crests shall be sub-corrugated to increase stiffness. The chamber shall have a circular cut line for an optional reinforced inspection port configured to accept a 4inches Schedule 40 pipe. The chamber shall be supported by integral structural footings comprised of load dispersing toe ribs and longitudinally aligned stiffening ribs.

Drain rock shall consist of clean ¾" crushed angular material (rock or recycled concrete), that is poorly graded (little to no fines – 0-10% passing ½"). Submit material for review by Engineer prior to procuring material.

#### **INSTALLATION**

Refer to manufacturer's Installation Guide for proper procedure required to maintain structural integrity and functionality of the chamber system.

#### MEASUREMENT AND PAYMENT

All work shall be done in conformance with the applicable provisions of the 2010 Caltrans Standard Specifications. The contract price paid per lineal foot Lump Sum for "Storm Drainage Retention Structures and Storm Drain Piping," (Bid Item No. 6, Lineal Foot) shall include full compensation for furnishing all labor, materials (including drainrock and engineered fill to subgrade elevation, tools, equipment, incidentals, and for doing all the work involved in constructing storm drainage retention sturctures complete in place, as shown on the plans, as specified in the 2010 Caltrans Standard Specifications and these Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

## 10-1.12 STORM DRAIN PIPING

Storm drain pipe required to connect drainage structures to the storm drain retention structures and for inspection ports shall consist of SDR26 PVC pipe and fittings, or Schedule 40 PVC pipe and fittings, or HDPE ADS N12 or equal. Pipe shall be installed in conformance with applicable sections of the 2010 Caltrans Standard Specifications, and the manufacturer's instructions.

#### MEASUREMENT AND PAYMENT

The contract price paid per lineal foet lump sum for "Storm Drainage Retention Structures and Storm Drain Piping" shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work, complete in place, as shown on the plans, as specified in the 2010 Caltrans Standard Specifications and these Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

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## 10-1.13 AGGREGATE BASEROCK & GRAVEL PAVING

Aggregate base shall be Class 2 and shall conform to the provisions in Section 26, "Aggregate Bases," of the 2010 Caltrans Standard Specifications and these Special Provisions.

The restriction that the amount of reclaimed material included in Class 2 aggregate base not exceed 50 percent of the total volume of the aggregate used shall not apply. Aggregate for Class 2 aggregate base may include reclaimed glass. Aggregate base incorporating reclaimed glass shall not be placed at locations where surfacing will not be placed over the aggregate base.

#### **MEASUREMENT AND PAYMENT**

All work shall be done in conformance with the applicable provisions of the 2010 Caltrans Standard Specifications. Full compensation for the lump sum contract price paid for "Aggregate Baserock & Gravel Paving" includes, but is not limited to, all labor, equipment, and materials required to conform to the provisions of this section shall be considered as included in the prices paid for the various items of work involved and no separate payment will be made therefor. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

#### 10-1.14 TEMPORARY CONCRETE WASHOUT FACILITY

Temporary concrete washout facilities shall be constructed, maintained, and later removed at the locations approved by the Engineer and in conformance with "Water Pollution Control" of these Special Provisions, and in conformance with Section 13-9 "Temporary Concrete Washouts."

Temporary concrete washout facilities shall be one of the water pollution control practices for waste management and materials pollution control. The BMPs shall include the use of temporary concrete washout facilities.

## **MATERIALS**

#### Plastic Liner

Plastic liners shall be single ply, new polyethylene sheeting, a minimum of 10 mils thick and shall be free of holes, punctures, tears or other defects that compromise the impermeability of the material. Plastic liners shall not have seams or overlapping joints.

#### **Gravel-filled Bags**

Gravel bag fabric shall be nonwoven polypropylene geotextile (or comparable polymer) and shall conform to the following requirements:

Specification	Requirements
Weight per unit area, ounces per square yard, min. ASTM Designation: D 5261	8.0
Grab tensile strength (one inch grip), kilonewtons, min. ASTM Designation: D 4632*	205
Ultraviolet stability, percent tensile strength retained after 500 hours, ASTM Designation: D 4355, xenon arc lamp method	70

<sup>\*</sup> or appropriate test method for specific polymer

Gravel bags shall be between 24 inches and 32 inches in length, and between 16 inches and

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#### GENERAL NOTES

- All work shall be done in accordance with the following:

  a) Applicable sections of the State of Colifornia Department of Transportation Standard Specifications, 2010, hereinather colled "Coltrans";
  b) California Plumbing Cade and California Building Cade Provisions

  - AWWA standards and specifications: City of Oakley Standard Details and Specifications where applicables
  - These plans and details shown hereon; Standards of the United Studes Deportment of Lobor, Occupational Safety and tith Administration, Office of Standards and rules of the State Division of
  - Heath Administration, Unice of Standards and roles of the State Divi Industrial Safety.

    g) Latest edition of the California State Code of Regulations Title 24.

    h) The Project Specifications

Where conflicts exist between any of the above listed specifications, the most stringent listed

- It is the responsibility of the Contractor to secure all permits necessary to perform the work, including but not limited to, work in the public right-of-way, grading, tree removal, and utility modifications.
- Contractor shall supply all equipment, labor, and materials necessary to perform the work
- 4. It shall be the responsibility of the various contractors to coordinate their work so as to eliminate conflicts and work toward the general good and completion of the entire project.
- All workmonship and materials furnished by Contractor shall be of the kind and quality described in the specifications and shall be first class throughout. Neither final acceptance nor final payment by Owner shall relieve the Contractor of responsibility for faulty materials or workmanship.
- 6. In the event of any conflict of information shown in these plans or any conflict between these plans and the intent of a consistent and functional product, the Contractor shall so notify the Owner in writing, upon which notice the Owner shall resolve the conflict by the issuance of a written order, revised plans or both. The Contractor shall bear full cost and respansibility for work feeted by such conflicts and performed by Contractor prior to such notice to the Owner and issuance of such order and/or revised plans.
- 7. Contractor shall provide adequate dust control at all times as required by Owner's
- 8. Contractor shall exercise all necessary caution to avoid damage to any existing trees, or surface improvements, or to any existing drainage structure, water structures, sever cleanouts, manholes, or junction boxes for underground electric, telephone, or cable TV, or storm sewer, sanitary sewer, water line, and underground utilities, which are to remain in place and shall bear full responsibility for any damage thereto.
- All known existing utility lines are shown for information only. Contractor shall exercise all 9. All known existing utility lines are shown for information only. Contractor shall exercise all necessary caution to avoid damage to any existing utility lines or facilities to remain in place, whether or not such lines or facilities are shown on these plans, and shall bear full responsibility for any damage thereto. Contractor is advised to Contact Underground Service Alert (USA) at (800) 642–2444 or a private Underground Locater Service (at contractor's expense) and the affected utility company for marking underground lines prior to beginning work.
- 10. Inspection of work: The City of Ookley Public Works Department will inspect all work involving conformance to grading permit including grades and compaction of earthwork. Contractor shall notify the City of Oakley Public Works and Engineering Department at (925) 625–7037 forty eight (48) hours prior to grading and construction of underground facilities.
- Engineer shall have no responsibility for Contractor's work methods and procedures, jobsite conditions, jobsite safety or adherence to safety procedures and requirements.
- 12. The Contractor agrees that, in accordance with generally accepted construction practices, the 12. The Contractor agrees that, in accordance with generally accepted construction practices, the Contractor will be required to assume sole and complete responsibility for jobsite conditions during the course of construction of the project, including sofety of all persons and property. This requirement shall apply continuously and not be limited to normal working hours. The contractor agrees to defend, indemnify and hold Owner and Engineer hormless from any and all liability, real or alleged, in connection with the performance of the work on this project, exempting liability orising from the sole negligence of the Engineer or Owner.
- Contractor shall provide appropriate traffic control measures as autlined in the City of Oakley specifications and as directed by the City Engineer.

#### GRADING AND PAVING NOTES

- Work shall consist of all clearing, grubbing, and stripping, preparation of land to be filled, excavation, spreading, compaction and control of the fill, and all subsidiary work necessary to complete the grading to conform to the lines, grades and slopes, as shown on the accepted plans.
- The Contractor shall notify the City of Oakley, at least forty—eight (48) hours prior to
- A representative of the Soils Testing Firm shall be an site during grading operations and shall
  perform such testing as deemed necessary. The representative shall observe the grading operation
  for conditions that should be corrected, and identify those conditions with recommended corrective.
- 4. In the event that any unusual conditions not covered by these notes are encountered during grading operations, the Owner shall be immediately notified for directions.
- 5. All existing trash, debris, roots, tree remains and other rubbish shall be removed from the site so as to leave the areas that have been disturbed with a neat and finished appearance free from unsightly debris. No burning shall be permitted.
- Contractor shall grade to the line and elevations shown on the plan within the following horizontal and vertical tolerance, in the areas indicated

Horizontal

Area subgrade preparation 0.05'+

All aggregate base material and the handling and placement thereof shall be in accordance with the 2010 Caltrans Standard Specifications. Aggregate base materials shall be Class II.

- 8. Aspholt concrete (AC) shall be Type A, 3/4" maximum aggregate size for base course and 1/2" maximum aggregate size for surface course, as specified for surface course material in the 2010 Caltrons Standard Specification. 2" thickness may be placed in one lift.
- SS-I emulsified aspholt paint binder conforming to the provisions of the 2010 Caltrons Standard Specification shall be applied at the rate of 0.07+ gallons per square yard to existing asphalt concrete surface and vertical concrete surfaces to receive asphalt concrete.
- 10. Contractor shall adjust all inlets, valve boxes, manhole rims, and sewer cleanouts to new finish grade.
- Materials handling and placement of Portland Cement Concrete shall be in accordance with applicable sections of the 2010 Caltrans Standard Specifications and these plans and details shown

#### UNDERGROUND NOTES

- Contractor shall expose and verify location and elevation of existing utilities, including sanitary
  and storm sewers, and water lines before constructing new facilities. Contractor shall cap existing
  irrigation lines where necessary so that the remaining irrigation system will continue to be
  operational for the existing landscaping to remain.
- Materials for pipe, storm water inlets and cleanauts and installation procedures shall be in accordance with applicable California Building Code sections and the City of Oakley Standard Specifications, the Project Specifications and these pions and details shown hereon.

Storm Sewer Pipe designated "SD" shall be SDR 26 PVC pipe

- 3. All trench excavation and backfill for sewer lines shall conform to requirements of the City of Oakley Standard Specifications. Jetting of backfill materials to achieve compostion is not
- All trenches and excavations shall be constructed in strict compliance with the applicable ions of California and Federal O.S.H.A. requirements and other applicable safety ordinances.

contractor shall bear full responsibility for trench shoring design and installation.				ELECTROLIER				
<b>ABBRI</b>	EVIATIONS (EXISTING)	ABBR	EVIATIONS (PROPOSI	ED)	PERMEABLE DRAIN ROCK			
AC	ASPHALT CONCRETE	AC	ASPHALT CONCRETE		SANITARY SEWER			
AD CLF	AREA DRAIN CHAIN-LINK FENCE	BTM EX.	BOTTOM EXISTING		INSPECTION PORT	C3)	•	
C/CONC DWY E/EL	CONCRETE DRIVEWAY ELECTRICAL	INV DWY PROP.	INVERT DRIVEWAY PROPOSED		STORM DRAIN INLET	3 3 5 5		
EB EC	ELECTRICAL BOX EDGE OF CONCRETE	STA TYP	STATION TYPICAL	:	STORM DRAIN MANHOLE			
EP	EDGE OF PAVEMENT				WATER METER			
FF FL	FINISHED FLOOR ELEVATION FLOW LINE				WATER LINE			
GM	GAS METER				DIRECTION & RATE OF SLOPE		0.015	
GB G	GRADE BREAK GROUND				SWALE		-	
HC-HCR JP	HANDICAP RAMP ACCESSIBLE JOINT UTILITY POLE				CHAIN-LINK FENCE			
UP	LIP OF GUTTER				EDGE OF PAVEMENT			
LT ME	LIGHT MATCH EXISTING				CONTOUR			J
MH PL	MANHOLE PROPERTY LINE				GRADE BREAK			
R/W	RIGHT OF WAY		n		SIGN			
RC SS SSCO	RELATIVE COMPACTION SANITARY SEWER SANITARY SEWER CLEANOUT					(13)	— DETAIL NUMBER —SHEET UPON WHICH	DETAIL APPEARS
TC W	TOP OF CURB WATER							
WW	WATER METER							

LEGEND

DESCRIPTION

DETAIL

#### DIABLO WATER DISTRICT NOTES

WATER VALVE

- WATER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE DIABLO WATER DISTRICT (DISTRICT). CONTRACTOR TO HAVE THE DECEMBER 2013 SPECIFICATION BOOK ON SITE AT ALL TIMES. THIS CAN BE SEEN ON LINE AT WITH STANDARDS AND SPECIFICATIONS ARE AVAILABLE AT THE DISTRICT'S OFFICE AT 87 CAROL LANE, OAKLEY, CA, PHONE: (925) 625-3798, AND SHALL BE ON SITE AT ALL TIMES.
- ANYONE WHO TAKES WATER FROM THE DISTRICT'S WATER SYSTEM WITHOUT PROPER METERING SHALL BE SUBJECT TO THE DISTRICT'S TAMPERING CHARGE, FEES AND COSTS AS PER THE DISTRICT'S REQUIATIONS AND MAY BE SUBJECT OCINIMAL PROSECUTION PURSUANT TO CALIFORM, PEDAL CODE SECTION 498 OR OTHER APPLICABLE STATUTES.
- THE DEVELOPER/CONTRACTOR SHALL SUBMIT TO THE DISTRICT THE SOIL CORROSION ANALYSIS AND DESIGN AS REQUIRED BY THE DISTRICT'S SPECIFICATIONS AFTER ROUGH GRADING OF THE SITE HAS BEEN COMPLETED. NO WORK ON THE DISTRICT'S WATER SYSTEM SHALL COMMENCE UNTIL THE DISTRICT HAS GIVEN ITS APPROVAL OF THE SOIL ANALYSIS AND CORROSION PROTECTION DESIGN.
- ALL MATER MAINS SHALL BE ANYMA COOD CLASS 150 PVC UNLESS OTHERWISE NOTED ON THESE PLANS. ALL PLASTIC PVC WATER MAINS AND SERVICES SHALL INCLIDED A 12-GAUGE, SINGLE STRAND, COPPER MINE TAPED TO THE TOP OF THE PIPE. TOP OF CURB SHALL BE STAMPED WITH A "N" TO MARK THE LOCATION OF THE WATER LATERAL.
- WATER LINES SHALL HAVE A MINIMUM COVER OF 3 FEET, AND NOT MORE THAN 4.5 FEET (UNLESS PRE-APPROVED BY THE DISTRICT) PROM FINISH ROADWAY AND SHALL HAVE CONTINUOUS WARRING TAPE INSTALLED 18' ABOVE ALL WATER MAINS, SERVICE LINES, HYDRAYT LINES AND BLOW-OFF LINES, UNLESS OTHERWISE NOTED. WARRING TAPE SHALL BE BLUE, 2' WIDE, PLASTIC PRINTED CONTINUOUSLY WITH THE WORDS "CAUTION BURIED WATER UNE BELOW".
- 6, BASIC SEPARATION REQUIREMENTS FOR WATER MAINS AND SANITARY SEYERS; FOR PARALLEL CONSTRUCTION, THE MINIMUM HORIZONTAL CLEARANCE BETWEEN PRESSURE WATER MAINS AND SEWERS SHALL BE 10 FEET. FOR PERPENDICULAR CONSTRUCTION (CROSSING), WATER MAINS SHALL BE AT LEAST 1 FOOT (CLEAR) ABOVE SANITARY SEWERS WHERE THESE UNES MUST CROSS.

BASIC SEPARATION REQUIREMENTS FOR WATER MAINS AND STORM DRANAGE AND RECYCLED WATER PIPELINES: FOR PARALLEL CONSTRUCTION, NEW WATER MAINS AND NEW SUPPLY LINES SHALL BE INSTALLED AT LEAST FOUR FEET HORIZONTALLY FROM, AND ONE FOOT VERTICALLY ABOVE, ANY PARALLEL PIPELINE CONVEYING DISINFECTED TERTIARY RECYCLED WATER, AND ANY PARALLEL PIPELINE CONVEYING STORM DRANAGE.

- . SPECIAL CONSTRUCTION REQUIREMENTS FOR PERPENDICULAR WATER MAINS AND SANTIARY SEWERS: WHERE A SEWER MUST CROSS ANYWHERE OVER OR LESS THAN ONE FOOT WIDER A WATER MAIN, THE CROSSING SHALL BE PERPENDICULAR (IF POSSIBLE) AND INSTALLATION AND MATERIALS SHALL CONFORM TO THE STATE OF CALIFORNA, DIVISION OF ORINKING WATER, CALIFORNA REQULATIONS RELATED TO DRIRKING WATER, AND SHALL BE SUBJECT TO THE APPROVAL OF THE DIVISION OF PROMISION OF BRINKING WATER.
- 8. MAINTAIN 5.0' MINIMUM SEPARATION BETWEEN WATER SERVICES AND SANITARY SEWER LATERALS.
- IF CROSSING A SANITARY SEWER OR STORM DRAIN PIPELINE, A NEW WATER MAIN SHALL BE CONSTRUCTED NO LESS THE 45-DEGREES TO AND AT LEST ONE POOT ABOVE THAT PIPELINE. NO CONNECTION JUINTS SHALL BE MADE IN THE WATER MAIN WITHIN LIGHT HORIZONTAL FEET OF THE PIPELINE BEBING CROSSES.
- 10. Public fire hydrants shall have 1-4 🛠 & 2-2 ¾ outlets, and each hydrant shall be isolated from the main line by a 6° gate valve, and shall receive two (2) coats of yellow pollard # P68205 Paint.

VALVE CAN LIDS FOR 6" FIRE HYDRANT SHUT-OFF VALVE SHALL BE PAINTED WITH KRYLON INTERIOR/EXTERIOR FLAT WHITE - BLANCO MATE \$1502 AS PER FIRE DEPARTMENT REQUIREMENTS

- 11. USE MUFILER STREAMLINE PVC COATED COPPER FOR SERVICE LINE AND ARY PIPING.
- 12. CONTRACTOR SHALL INSTALL CURB STOPS AND METER BOXES ACCEPTABLE TO DIABLO WATER DISTRICT AT EACH LOT HIMEDIATELY PRIOR TO JUMPER BEING REMOVED. AT THE EXPENSE OF THE DEVELOPER/CONTRACTOR, PAD LOCKS WILL BE INSTALLED BY DIABLO WATER DISTRICT AT EACH ANGLE STOP.

# RIGHT OF WAY OR PROPERTY LINE CENTERLINE .... LIMIT OF GRADING AC PAVEMENT MARK TOO GRAVEL PAVING CURB & GUTTER 10

PROPOSED

EXISTING

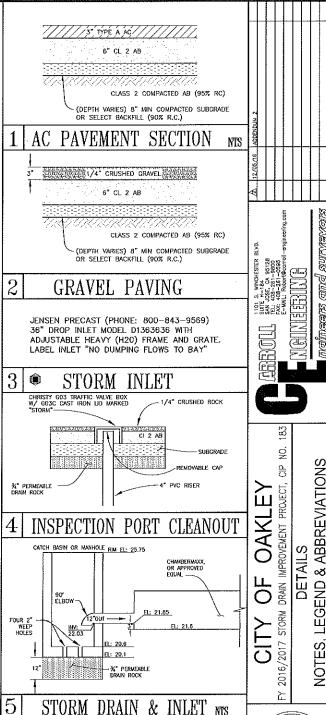
13. USE 304 STAINLESS STEEL NUTS AND BOLTS FOR ALL BOLT-UPS AS WELL AS CATE VALVE BONNETS AND STUFFING BOX NUTS AND BOLTS.

- 14. THE CONTRACTOR SHALL MAINTAIN WATER SERVICE TO ALL RESIDENCES AT ALL TIMES DURING CONSTRUCTION.
- 15. NO WORK SHALL COMMENCE UNTIL ALL SUBMITTALS HAVE BEEN APPROVED.
- 16. THRUST BLOCKS (OR OTHER PUPE JOINT RESTRAINTS) SHALL BE PROVIDED AT ALL ANGLE POINTS ON THE WASTER SYSTEM. THRUST BLOCKS FOR TREATED WATER PIPELINES (W) SHALL BE PER THE DWO DETAILS.
- 17. WORK HOURS SHALL BE MONDAY THROUGH FRIDAY 8:00 A.M. TO 4:30 P.M. EXCEPT FOR DISTRICT OBSERVED HOLDAYS. ANY REQUESTS FOR WORKING OUTSIDE THESE TIMES MUST BE SUBMITTED TO THE DISTRICT INSPECTOR AT LEAST 48 HOURS IN ADVANCE. IT IS RECOMMENDED THAT REQUESTS FOR SATURDAY WORK BE MADE BY THE CLOSE OF BUSINESS THE WEDNESDAY PRIOR. REQUESTS FOR SATURDAY WORK MAY BE APPROVED OR DETRIED DEPENDING ON RISPECTOR AVAILABILITY. A REQUEST FOR WORK DURING A DISTRICT HOLDAY SHALL NOT BE PERMITTED.
- 18. ALL JOINT TRENCH UTILITIES SHALL CROSS UNDERNEATH ALL WATER FACILITIES, IF THIS CRITERIA CANNOT BE MET, THE DEVELOPER/CONTRACTOR SHALL INSTALL A RED CONCRETE CAP DYER THE JOINT TRENCH FACILITIES.
- 19. ALL BUTTERFLY VALVES (BFVS) SHALL BE EPOXY LINED AND COATED. LINING SHALL BE CERTIFIED BY THE FACTORY TO BE HOLIDAY FREE.
- 20. ALL HOT TAPS SHALL BE PERFORMED BY TAP MASTER, INC. OF CONCORD, CALIFORNIA, PHONE: 925-439-7975. TAPPING SLEEVE SHALL BE STAINLESS STEEL TYPE JCM 432, NO EQUAL.
- 21. NO TREES SHALL BE PLANTED WITHIN 10' OF ANY WATER WAINS, FIRE SERVICES, OR FIRE HYDRANT LATERALS. MEASUREMENT SHALL BE TAKEN AS THE CLEAR DISTANCE BETWEEN THE ROOT BALL AND WATER MAIN.
- 22, ALL LOCATOR WIRES SHALL BE TESTED AND TEST RESULTS SHALL BE INCLUDED IN THE
- 23. ALL WATER METERS SHALL BE PROVIDED WITH A 520M-FLEXNET MIX UNIT. METER BOXES FOR METERS LESS THAN 1-1/2 INCH IN SIZE SHALL HAVE CHRISTY B12F001-F (FLEXNET) LIOS. ALL METER BOX LIDS SHALL HAVE ORRILED HOLES FOR FLEXNET SZOM UNITS.
- 24. WATER METERS 5/8' IN SIZE SHALL BE SENSUS 5/8' X 3/4' IPERL, 1 CUBIC FOOT, LABELED

WATER METERS 1" IN SIZE SHALL BE SENSUS 1" IPERL, 1 CUBIC FOOT.

WATER METERS 1.-1/2" THROUGH 6" IN SIZE SHALL BE SENSUS OMMI, LONG LENGTH C2, 1 CUBIC FOOT. SIZE SHALL BE SELECTED BY APPLICANT SO AS NOT TO EXCEED PUBLISHED "OPERATING RANGE" OF CZ METER.

- 25. JDH CORROSION CONSULTANTS, INC., 1100 WILLOW PASS COURT, CONCORD, CA, 925-927-6630, SHALL CONDUCT ALL FINAL CAHODIC PROTECTION TEST REPORTS AT THE EXPENSE OF THE DEVELOPER/CONTRACTOR.
- 26. INSTALL A BALL SHUT-OFF VALVE AND BOX ON CUSTOMER'S SIDE AFTER BACKFLOW DEVICE FOR NEW CONSTRUCTION AS REQUIRED BY THE CITY OF OAVLEY'S SPECIFICATIONS.
- 27. THE DEVELOPER/CONTRACTOR SHALL PROVIDE THE GLOBAL POSITIONING SYSTEM (GPS) COORDINATES OF ALL BURIED FITTINGS (EXCLUDING SADDLES AND CORPORATION STOPS) AND ALL ABOVE GROUND FACULTIES AS DEFINING BY THE DISTRICT IN A SHAPEFILE DATA FORMAT AS DEFINED BY ESSIL, GPS COORDINATES OF EXISTING WATER FACILITIES THAT ASE EXPOSED DURING ANT CONSTRUCTION ACTIVITY SHALL ALSO BE PROVIDED. ALL GPS COORDINATES SHALL BE TO WITHIN AN ACCURACY OF TEN (10) CENTIMETERS AND SHALL INCLUDE LATITUDE, LONGTUDE AND ELEVATION.
- 28. THE CONTRACTOR SHALL RECHLORINATE AND RETEST ANY LINES THAT DO NOT PASS THE OR SUBSEQUENT ROUND OF BACTERIOLOGICAL TESTING OR AS DIRECTED BY DIABLED



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12/05/2016 STAFF 2128 SCALE: AS SHOWN 10/21/2016

OF 4 SHEETS