





PHASE 1 PHASE 1 C3.10 C3.11 C3.11 C3.14 C3.15 C3.14 C3.15 C3.14 C3.15 C3

4

NOTE: 1. ALL ON-SITE WATER, RECLAIM AND SEWER UTILITIES WILL BE PRIVATE.

### \* ALL PRIVATE SS MANHOLES SHALL BE PER JEA STANDARDS REFER TO PLATES S-1, S-2 & S-3 ON C3.67 FOR DETAILS MANHOLE COVER TO READ 'SANITARY SEWER'

	8465 Merchants Way, Ste. 102	Jacksonville, Florida 32222	(904) 619-6521		est. 1988 FICKICA	CA-5075		
			X				_	
SCALE:	1"=20'		VERIFY SCALE BAR IS ONE INCH ON	ORIGINAL DRAWING		IF NOT ONE INCH ON	THIS SHEET, ADJUST SCALES ACCORDINGLY.	
S: CONSTRUCTION/BID REVISIONS:	- FIRST SUBMITTAL	- SECOND SUBMITTAL						
	DAVIS & SONS	5/26/23		MILLS UKEEK PRESERVE PHASE Z		Ξ	DETAILED UTILITY PLAN	
SIGNER: CLIENT:	MERRITT	OJECT ENGINEER:	MASON PROJECT:	ALITY CONTROL:	VOLNC	SHEET TITL		
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SH	FI EET N	L P	3	o. 9	23	3	5	











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									SCALE: 1" = 1 1" = 5' VI	20' HOF ERT.	RIZ.	20
TA: 113+54.75 0 RIM EL= INV EL=10.85' (18 INV EL=9.60' (14	S-30 D.O' RT 14.54 T <del>) (NI</del> 8") (M	4 Γ. 4' Ξ)				-F	PROPOSED	AD				15
		Ŕ					EXIST © GI	TING RADE				10
0.40% (PRIVATE)				2" SCH 40 PV (MIN. 36" CO'	C WS (PRI VER) 101'-8" SI	VATE)	——————————————————————————————————————	DPE RIVATE	5)		0	
			 MH-29 STA: 11: RIM EL= INV EL=( INV EL=( INV EL=(	<del>3+59.29 7' LT</del> 14.65' 6.70 (8") (SE) 6.70 (6") (SW) 6.59 (8") (NW)	- - )				STA: 114+62. RIM EI INV EL=8.00 INV EL=7.10 (	MH-30 90 8' LT. !=15.39' (6") (NE) 8") (NW)		5
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]	113+	-50			114	+00		I	114	+50		

SANITARY SEWER RING ROAD MH-13 TO MH-30

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<b>G</b> ]	RAPI	HIC SO	CALE
0	10	20	40

WATER FITTING SCHEDULE
1 - 4"x2" CLDI TAPPED TEE MECHANICALLY RESTRAINED 1 - 4" GATE VALVE & BOX 1 - 2" DIA x 6" LONG LOW-LED BRASS NIPPLE 1 - 2" GATE VALVE & BOX 1 - 2" BRASS PACK JOINT COUPLING FOR PVC 2" SCH.40 PVC WATER SERVICE PIPE (TEMP. 2" BLOW-OFF & SAMPLE POINT)
<ul> <li>1 - 8"x4" CLDI ANCHOR TEE MECHANICALLY RESTRAINED</li> <li>1 - 8" GATE VALVE &amp; BOX</li> <li>1 - 4" GATE VALVE &amp; BOX</li> </ul>
3 1 - 4" CLDI MJ 45 <sup>°</sup> BEND
NOTE: ALL GATE VALVES SHALL BE RESILIENT WEDGE WITH A SQUARE OPERATING NUT.

	SANITARY SEWER STRUCTURE TABLE							
STRUCTURE	STRUCTURE TYPE	ТОР	INVERT ELEV	NORTHING & EASTING				
MH-13	PRIVATE SS MANHOLE*	15.77'	6.31' SE (8") 6.41' N (8") 7.43' SW (6")	N: 2283360.21 E: 451394.78				
MH-29	PRIVATE SS MANHOLE*	14.65'	6.70' SE (8") 6.59' NW (8") 6.70' SW (6")	N: 2283297.20 E: 451427.05				
МН-30	PRIVATE SS MANHOLE*	15.39'	7.10' NW (8") 8.00' NE (6")	N: 2283221.68 E: 451494.05				

DESCARE:       CLENT:       SUBMITTAL:       SUBMITTAL:         DESCARE:       CLENT:       DAVIS & SONS       1/17/23 - FIRST SUBMITTAL:         RMERTIT       DAVIS & SONS       1/17/23 - FIRST SUBMITTAL:       DAVIS & SONS         PROFET ENCINER:       PROFET:       DAVIS & SONS       1/17/23 - FIRST SUBMITTAL:         PROFET ENCINER:       PROFET:       DAVIS & SONS       1/17/23 - FIRST SUBMITTAL:         PROFET ENCINER:       PROFET:       DAVIS & SONS       1/17/23 - FIRST SUBMITTAL:         PROFET ENCINER:       PROFET:       PROFET:       PROFET:         PROFET:       PROFET:       PROFET:       PROFET:		8465 Merchants Way, Ste. 102			I Consultants est. 1988 FLORIDA	
Desicre:       CLENT:       Data:       Submittal:       Construction/sile Revisions:       Scale:         I		(	E I I I I I I I I I I I I I I I I I I I		H ON Profession: UST	NGLY.
DESIGNER:     CLIENT:     DAVIS & SONS     SUBMITTAL:     CONSTRUCTION/BID REVISIONS:       K MERTITT     DAVIS & SONS     1/17/23 - FIRST SUBMITTAL.     DAVIS & SONS     1/17/23 - FIRST SUBMITTAL.       PROFECT ENGINER:     MASON     1/17/23 - FIRST SUBMITTAL.     DAVIS & SONS     1/17/23 - FIRST SUBMITTAL.       PROFECT ENGINER:     MOLOCT:     MILLS CREEK PRESERVE PHASE 2     SIGNITTAL.     CONSTRUCTION/BID REVISIONS.       PROFECT ENGINER:     MOLOCT:     MILLS CREEK PRESERVE PHASE 2     SIGNITTAL.     CONSTRUCTION/BID REVISIONS.       MOLOCT:     MILLS CREEK PRESERVE PHASE 2     MILLS CREEK PRESERVE PHASE 2     SIGNITTAL.     CONSTRUCTION/BID REVISIONS.       MOLOCT:     MOLOCT:     MILLS CREEK PRESERVE PHASE 2     MILLS CREEK PRESERVE PHASE 2     SIGNITTAL.       MOLOCT:     MILLS CREEK PRESERVE PHASE 2     MILLS CREEK PRESERVE PHASE 2     SIGNITTAL.       MOLOCT:     MILLS CREEK PRESERVE PHASE 2     MILLS CREEK PRESERVE PHASE 2     SIGNITAL.       MOLOCT:     MILLS CREEK PRESERVE PHASE 2     MILLS CREEK PRESERVE PHASE 2     SIGNITAL.       MOLOCT:     MILLS CREEK PRESERVE PHASE 2     MILLS CREEK PRESERVE PHASE 2     SIGNITAL.       MOLOCT:     MILLS CREEK PRESERVE PHASE 2     MILLS CREEK PRESERVE PHASE 2     SIGNITAL PHASE 2       MOLOCT:     MILLS CREEK PRESERVE PHASE 2     MILLS CREEK PRESERVE PHASE 2     SIGNITAL PHASE	SCALE:	1"=20'	VERIFY SCALI BAR IS ONE INCH	ORIGINAL DRAW	IF NOT ONE INCH THIS SHEFT, ADI	SCALES ACCORDI
DESIGNER:       CLENT:       DAVIS & SONS       SUBMITTAL:         RERRITT       RERRITT       DAVIS & SONS       1/17/23 - FIRST SUBMITTAL         ROJECT ENGINER:       PROJECT:       DAVIS & SONS       1/17/23 - FIRST SUBMITTAL         ROJECT ENGINER:       ROJECT:       DAVIS & SONS       5/26/23 - SECOND SUBMITTAL         ROJECT:       MILLIS CREEK PRESERVE PHASE 2       MILLIS CREEK PRESERVE PHASE 2       2/26/23 - SECOND SUBMITTAL         PROJECT NUMBER:       SANITARY SEWER PLAN AND PROFILE       SANITARY SEWER PLAN AND PROFILE       2/26/23 - SECOND SUBMITTAL	CONSTRUCTION/BID REVISIONS:					
DESIGNER:       CLIENT:         R       MERRITT         R       MERRITT         R       MERRITT         R       MERRITT         R       MERRITT         PROJECT ENGINER:       DAVIS & SONS         PROJECT ENGINER:       PROJECT:         MILTCHERNER:       PROJECT:         PROJECT NUMBER:       SANITARY SEWER PLAN AND PROFILE         SANITARY SEWER PLAN AND PROFILE       SANITARY SEWER PLAN AND PROFILE	SUBMITTALS:	1/17/23 - FIRST SUBMITTAL 5/26/23 - SECOND SLIRMITTAL				
LO-5220-21 BESIGNER: K MERRITT K MERRITT K MERRITT K MERRITT K MERRITT M MASON MITCHELL G. MASON MITCHELL G. MASON Mitchell G. Mason, P.E. State of Florida, Professional Engineer, License No. 92335 This item has been digitally signed and sealed by Mitchell G. Mason, P.E. on the date indicated here. 08/16/2023 Printed copies of this document are not considered signed and sealed and the	CLIENT:	DAVIS & SONS	PROJECT:	MILLS CREEK PRESERVE PHASE Z	SHEET TITLE: CANITADY COMPANY AND AND ADOPUL	SANITART SEWER FLAN AND FROFILE
FL PE No. 92335	DESIGNER:	MITCO MITCO Mitche Indicat rintecco ocum ganed ganet ny electron	B W W SON WORK I WORK WASSON W W SON W S	G. M G. M G. M Son, P of a prof a pro	IASO IASO IIIIIIIIIIIIIIIIIIIIIIIIIIIIII	<u>a a a sa sa</u> z 17-0279.01



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		0		80'-8	8" SDR35 PVC @ (	0.40% (PRIVATE	)					_					_	10
			STA: 1 RIM EL	18+84.67 =16.69'	8' LT.					/ MH STA	27 : 119+66.90 7' L	т.						
			INV EL INV EL	=10.50 (6 =11.75 (6	" <del>) (W)</del> ") (NW)					RIM INV	EL=16.33' EL=10.07 (8") (S	W)			N STA: 120+67.18 PIM EL-1	1H-26 7'LT. 6.18'		
			INV EL	=10.39 (8)	") (NE)	49'-18" HDP	E @	0.45% —⁄	/	INV	EL=9.97 (8") (NE		D AON (DDIVATE)		INV EL=9.58 (8", INV EL=7.98 (8")	) (SW) ) (NE)		5
	(MI	SCH 4 N. 36'	O PVC WS (P COVER)	RIVATE)							96-6 30833	FVC	© 0.40% (PRIVATE) —					-
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## WATER FITTING SCHEDULE

0	1 - 4"x2" CLDI TAPPED TEE MECHANICALLY RESTRAINED 1 - 4" GATE VALVE & BOX 1 - 2" DIA x 6" LONG LOW-LED BRASS NIPPLE 1 - 2" GATE VALVE & BOX 1 - 2" BRASS PACK JOINT COUPLING FOR PVC 2" SCH.40 PVC WATER SERVICE PIPE (TEMP. 2" BLOW-OFF & SAMPLE POINT)
2	1 - 8"x4" CLDI ANCHOR TEE MECHANICALLY RESTRAINED 1 - 8" GATE VALVE & BOX 1 - 4" GATE VALVE & BOX
3	1 - 4" CLDI MJ 45 <sup>°</sup> BEND
	NOTE: ALL GATE VALVES SHALL BE RESILIENT WEDGE WITH A SQUARE OPERATING NUT.

	SANITARY SEWER STRUCTURE TABLE							
STRUCTURE	STRUCTURE TYPE	ТОР	INVERT ELEV	NORTHING & EASTING				
МН-26	PRIVATE SS MANHOLE*	16.18'	9.58' SW (8") 7.98' NE (8")	N: 2283308.73 E: 452004.84				
MH-27	PRIVATE SS MANHOLE*	16.33'	10.07' SW (8") 9.97' NE (8")	N: 2283231.96 E: 451944.11				
MH-28	PRIVATE SS MANHOLE*	16.69'	10.39' NE (8") 10.50' W (6") 11.75' NW (6")	N: 2283184.95 E: 451879.05				









 GRAPHIC
 SCALE

 0
 10
 20
 40

W	ATER FITTING SCHEDULE
0	<ol> <li>4"x2" CLDI TAPPED TEE MECHANICALLY RESTRAINED</li> <li>4" GATE VALVE &amp; BOX</li> <li>2" DIA x 6" LONG LOW-LED BRASS NIPPLE</li> <li>2" GATE VALVE &amp; BOX</li> <li>2" BRASS PACK JOINT COUPLING FOR PVC 2" SCH.40 PVC WATER SERVICE PIPE (TEMP. 2" BLOW-OFF &amp; SAMPLE POINT)</li> </ol>
4	1 - 8"x6" CLDI ANCHOR TEE MECHANICALLY RESTRAINED 1 - 8" GATE VALVE & BOX 1 - 6" GATE VALVE & BOX 6" PVC WM (TYP) 1 - PRIVATE RED FIRE HYDRANT ASSEMBLY
	NOTE: ALL GATE VALVES SHALL BE RESILIENT WEDGE WITH A SQUARE OPERATING NUT.

SANITARY SEWER STRUCTURE TABLE							
STRUCTURE	STRUCTURE TYPE	ТОР	INVERT ELEV	NORTHING & EASTING			
МН-24	PRIVATE SS MANHOLE*	17.23'	6.90' S (8") 6.80' N (8")	N: 2283543.71 E: 452052.16			
МН-25	PRIVATE SS MANHOLE*	16.82'	7.61' SW (8") 7.51' N (8")	N: 2283392.15 E: 452040.23			
МН-26	PRIVATE SS MANHOLE*	16.18'	9.58' SW (8") 7.98' NE (8")	N: 2283308.73 E: 452004.84			







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STRUCTURE MH-23 MH-24



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ATER	FITTING	SCHEDULE
1 - 4"x2" CLI 1 - 4" GATE 1 - 2" DIA x (	DI TAPPED TEE MEC VALVE & BOX 6" LONG LOW-LED	CHANICALLY RESTRAINED

	1 - 2" GATE VALVE & BOX 1 - 2" BRASS PACK JOINT COUPLING FOR PVC 2" SCH.40 PVC WATER SERVICE PIPE (TEMP. 2" BLOW-OFF & SAMPLE POINT)
)	1 - 8"x4" CLDI ANCHOR TEE MECHANICALLY RESTRAINED 1 - 8" GATE VALVE & BOX 1 - 4" GATE VALVE & BOX
	NOTE: ALL GATE VALVES SHALL BE RESILIENT WEDGE WITH A SQUARE OPERATING NUT.

## SANITARY SEWER STRUCTURE TABLE

STRUCTURE	STRUCTURE TYPE	тор	INVERT ELEV	NORTHING & EASTING
MH-23	PRIVATE SS MANHOLE*	17.70'	6.57' S (8") 6.47' N (8")	N: 2283601.82 E: 452041.67
MH-24	PRIVATE SS MANHOLE*	17.23'	6.90' S (8") 6.80' N (8")	N: 2283543.71 E: 452052.16

BAGE Marchante Wave Sta 100	Jacksonville, Florida 32222		est. 1988 FLORIDA	CA-5075	
		X	こう	Professional Consultants	
scale: 1 "=20'		VERIFY SCALE BAR IS ONE INCH ON	ORIGINAL DRAWING	IF NOT ONE INCH ON	THIS SHEET, ADJUST SCALES ACCORDINGLY.
CONSTRUCTION/BID REVISIONS:					
submittals: 1 /1 7/23 - FIRST SUBMITTAL	5/26/23 - SECOND SUBMITTAL				
Client: DAVIS & CONS				SHEET TITLE:	SANITARY SEWER PLAN AND PROFILE
DESIGNER: K MERRITT	PROJECT ENGINEER:	M MASON	QUALITY CONTROL:	D YOUNG	PROJECT NUMBER: 17-0279.01
MI Stat Eng This sigr G. M indi doc sigr sigr any	hell ineed ineed iten adasol cated atumen ed a atumen elec	G. Ma: Florid: r, Lice n has I nd se: n has I nd se: d here copies nt are e mus tronic	G. N son, F a, Pro nse N been d aled b on th of thi not cc aled a t be v copie	A A S E. Fess o. 9 digit y M ie d 6/20 is onsi a forsi is onsi is s.	SON sional 2335 tally itchell ate 223 idered the led on
SHEET	FL P NO.:		. 92 . <b>4</b>	33	3









JANUARY 2018

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1. LOCATE WIRE SHALL BE ROUTED FROM THE VALVE TO THE HYDRANT AS SHOWN ABOVE. THE END OF THE WIRE SHALL BE SECURED TO THE PIPE MAIN. SEE SECTION 350, LOCATE WIRE INSTALLATION PARAGRAPH.

2. FIRE HYDRANTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK AND NOT WITHIN SWALE/DITCH AREAS. THE DISTANCE RANGE FROM EDGE OF ADJACENT PAVEMENT, BACK OF CURB AND FACE OF SIDEWALK SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA AND APPLICABLE PERMITTING AGENCIES. DISTANCE SHALL BE MEASURED TO THE CLOSEST PART OF THE FIRE HYDRANT (I.E. THE PUMPER NOZZLE). THE MAXIMUM DISTANCE (BACK OF CURB) SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA. FOR OTHER LOCATION LIMITATIONS SEE PLATES W-10 AND W-11. IF PIPING BETWEEN TEE AND HYDRANT IS LONGER THAN 80 LF, AN ADDITIONAL 6" GATE VALVE IS REQUIRED AT THE HYDRANT LOCATION (PROVIDE 30" SEPARATION). ALL PIPING, VALVES AND FITTINGS ALONG THE HYDRANT BRANCH MAIN WHICH IS WITHIN 15 LF OF THE HYDRANT SHALL BE RESTRAINED UTILIZING ONLY TWO 3/4" DIA (THREADED ENDS) STEEL RODS AND EYE BOLTS (NO JOINT RESTRAINT DEVICES REQUIRED). A SPLIT SERRATED RING WITH RESTRAINT EARS (EBAA 15 PF06 or EQUAL) MAYBE USED IN THIS ASSEMBLY. ALL OTHER JOINTS ALONG THE HYDRANT BRANCH MAIN OUTSIDE OF THE FIRST 15 LF SHALL INCLUDE JOINT RESTRAINTS.

OPERATION OF THE FIRE HYDRANT SHALL BE EITHER FULL OPEN POSITION OR TOTALLY CLOSED POSITION. THE HYDRANT SHALL NOT BE UTILIZED TO THROTTLE OUTLET FLOW.

4. PRIOR TO PROJECT FINAL INSPECTION, THE HYDRANT AND ALL ABOVE GROUND PIPING SHALL BE RE-OILED, GREASED AND REPAINTED (RUS- KIL ENAMEL-INTERNATIONAL YELLOW OR EQUAL). PRIVATELY OWNED AND MAINTAINED FIRE HYDRANTS SHALL BE PAINTED RED.

FIRE HYDRANTS SHALL BE ORDERED WITH PROPER "BURY DEPTH" TO MEET ACTUAL FIELD CONDITIONS. THIS IS ESPECIALLY IMPORTANT FOR BRANCH LINES WHICH TEE-OFF A 12" OR LARGER WATER MAIN. UNLESS APPROVED OTHERWISE BY JEA, THE INSTALLATION OF (45°) BENDS IS NOT ACCEPTABLE WHEN UTILIZED TO CORRECT AN IMPROPERLY FURNISHED HYDRANT. THE USE OF HYDRANT EXTENSIONS SHOULD BE MINIMIZED.

BLUE REFLECTIVE MARKERS SHALL BE INSTALLED IN SUCH A MANNER THAT THE REFLECTIVE FACE OF THE MARKER IS PERPENDICULAR TO A LINE PARALLEL TO THE ROADWAY CENTERLINE. THE BLUE REFLECTIVE MARKERS SHALL BE PLACED IN THE CENTER OF THE TRAVEL LANE, DIRECTLY ACROSS FROM AND ADJACENT TO EACH FIRE HYDRANT.

# FIRE HYDRANT INSTALLATION USING MECHANICAL JOINT TEE

PLATE W-13

	8465 Merchants Way, Ste. 102 Jacksonville, Florida 32222 (904) 619-6521 www.chw-inc.com						CA-5075		
			Ĭ			Professional Consultants			
SCALE:	N/A		VERIFY SCALE BAR IS ONE INCH ON	ORIGINAL DRAWING		IF NOT ONE INCH ON	THIS SHEET, ADJUST	SCALES ACCORDINGLY.	
UBMITTALS: CONSTRUCTION/BID REVISIONS:	/17/23 - FIRST SUBMITTAL								
CLIENT:	DAVIS & SONS		PROJECT:	MILLS CREEK PRESERVE PHASE 2		SHEET TITLE: WATER AND	WASTEWATER		
DESIGNER:	K MERRITT	PROJECT ENGINEER:	M MASON	QUALITY CONTROL:			PROJECT NUMBER:	1 7-0 7 7 0 1	
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SHE		- P	е N 3	o. 9	<sup>52</sup>	33	5		



## HEAVY DUTY RATING



### NOTES:

- 1. PAINT TOP OF THE COVER WITH ENAMEL PAINT (BLUE COLOR) FOR WATER.
- 2. FOR "REUSE" PAINT TOP PANTONE PURPLE.
- 3. LID WEIGHT: APPROX. 12 LBS.

# WATER SYSTEM VALVE BOX COVER

JANUARY 2018

DUCTILE IRON PIPE RESTRAINT NOTES:

- INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
- D.I.P. W/POLY WRAP, USE RESTRAINT JOINT SCHEDULE FOR PVC PIPE.
- 3. BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
- DEGREE BENDS.
- ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.



8 1/2"

7 1/2"

## PAINT COVER AND INSIDE OF BO COMPACTED EARTH (TYP) —

VALVE BOX & COVER (TYP) PROVIDE BLUE PAINT TO THE INSIDE OF THE TOP SECTION OF THE BOX (NOTE #5) 6" PVC RISER PIPE -----(LENGTH AS REQUIRED) PROVIDE "V" CUT IN TOP OF 6" RISER PIPE FOR LOCATE WIRE ACCESS INTO VALVE BOX PLASTIC DEBRIS SHIELD REQUIR ON ALL VALVES 12" AND SMALLEF

> RESTRAINED MECHA JOINT (TYP) UNDISTURBED EART

## NOTES:

1. FOR UNPAVED LOCATIONS, A PRECAST PAD IS NOT REQUIRED FOR VALVE LOCA

(SEE NOTE # 9)

- 2. LOCATING WIRE IS REQUIRED ON ALL P
- 3. A "V" CUT SHALL BE CARVED IN THE CU
- 4. IN PAVED AREAS, INSTALL VALVE AT A D THE VALVE OPERATING NUT. OUTSIDE ( BETWEEN THE VALVE COVER AND THE
- (WHERE APPLICABLE) SO THAT THE OPI 5. FOR NEW CONSTRUCTION, THE VALVE LOCATE WIRES THRU A "V" CUT IN THE WIRES WITH A 12" LONG PIG-TAIL AT TH
- 6. BRASS IDENTIFICATION TAG INDICATING BRASS TAG AND ATTACH TAG (TWIST W INSTALLED ON FIRE HYDRANT BRANCH
- 7. IN LIEU OF PRECAST CONCRETE PAD, A PERIMETER, MAY BE USED.
- 8. GRAVEL SHALL BE PROVIDED UNDER AL UP TO <sup>1</sup>/<sub>3</sub> THE OVERALL HEIGHT OF THE \
- 9. FOR VALVES 12 INCH AND SMALLER, PR NUT. THIS SHIELD SHALL CENTER THE AFC, BOXLOK OR APPROVED EQUAL.
- 10. ALL VALVES SHALL BE INSTALLED WITH (3M-1403XR FOR WATER AND 1408XR FC

# WATER VA

## JANUARY 2018

PLATE W-17

VERTICAL OFFSETS 45° BENDS HORIZONTAL BENDS NOMINAL OR (SEE NOTE 4) PIPE DEAD 90° 45° 22.5° 11.25° BENDS BENDS BENDS BENDS UPPER LOWER ENDS SIZE SIZE (IN.) L (FT.) (IN.) | L (FT.) 6x4 22 17 7 4 2 11 3 30 4 8x6 23 6 24 15 5 3 15 4 42 8x4 39 8 31 13 6 3 20 5 55 10x8 22 10 36 15 8 4 23 6 65 10x6 40 12x10 23 12 42 18 9 5 27 7 77 12x8 41 14 | 48 | 20 | 10 | 5 | 31 | 7 | 87 16x12 42 16 53 22 11 6 35 8 97 16x10 58 18 58 24 12 6 39 9 107 20x18 22 20x16 42 20 63 27 13 6 42 10 118 20x12 74 24 63 27 13 7 49 12 118 24x20 36 30 75 31 15 8 59 14 141 24x18 51 36 86 36 17 9 68 17 163

42 95 40 19 10 76 19

48 117 43 21 11 84 21

# DUCTILE IRON PIPE RESTRAINT JOINT SCHEDULE

PLATE W -31B

183

203





**HEAVY DUTY RATING** 

## NOTES:

1. PAINT THE INSIDE OF THE TOP SECTION OF THE BOX WITH APPLICABLE COLOR (BLUE OR PURPLE)

WATER SYSTEM VALVE BOX

LENGTH (L) TO BE RESTRAINED

- 2. HEAVY DUTY RATING (TOTAL WEIGHT APPROX. 50 LBS.).
- 3. REFERENCE SECTION 351, PARAGRAPH X.2.

PLATE W-16 JANUARY 2018

1. THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS, ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS

2. ASSUMPTIONS: DUCTILE IRON PIPE (WITHOUT POLY WRAP), SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE. FOR

4. VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, Lu IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. LI IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45

5. TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN). SEE SCHEDULE

6. HDPE TO D.I.P. TRANSITIONS: THE D.I.P. PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).

APPLY GROUT TO FILL ANNULAR SPACE BETWEEN VALVE BOX AND CONCRETE PAD 24" ROUND PRECAST CONCRETE PAD 4" THICK (SEE SPEC) SET ON COMPACTED EARTH, (SEE NOTE# 6) VALVE BOX ADJUSTMENT (SEE NOTE# 5) FINISHED GRADE	8465 Merchants Way, Ste. 102 Jacksonville, Florida 32222 (904) 619-6521 www.chw-inc.com est. 1988 <b>FLORIDA</b> CA-5075
ELECTRONIC LOCATE BALL MARKER LOCATED WITHIN 12" FROM RISER PIPE (NOTE #10) GATE VALVE W/ 2" OPERATING NUT (NOTE #4) PIPE W/ LOCATING WIRE PIPE W/ LOCATING WIRE 12" (MIN) LAYER OF #57 STONE (REQUIRED FOR VALVES 20" AND LARGER, (NOTE #7)	Professional Consultants
CONCRETE VALVE PAD SHALL BE PROVIDED AND INSTALLED FLUSH WITH GRADE. CONCRETE TATED IN THE ROADWAY, UNLESS SHOWN OR NOTED OTHERWISE. PRESSURE PIPING (SEE DETAILW-44). IRB CLOSEST/ADJACENT TO ALL BELOW GRADE VALVES. THE 'v' CUT IS TO BE PAINTED GREEN. DEPTH TO ALLOW A 12' MIN. DISTANCE BETWEEN THE VALVE COVER PLATE AND THE TOP OF OF PAVED AREAS (GRASS), INSTALL VALVE AT DEPTH TO ALLOW A 6' MINIMUM DISTANCE TOP OF THE VALVE OPERATING NUT. OPERATING NUTSTEM EXTENSION SHALL BE PROVIDED ERATING NUT WILL BE NO MORE THAN 30 INCHES BELOW FINISHED GRADE. BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS. ROUTE TOP OF THE 'P' VC RISER PIPE FOR LICCTE WIRE ACCESS INTO VALVE BOX. THE LOCATE IE TOP SHALL BE CONNECTED TOGETHER WITH A WIRE NUT. G 'WATER', VALVE SIZE, DIRECTION AND TURNS TO OPEN & VALVE TYPE. PROVIDE A X'' HOLE IN MIRE ARDUND TAG) TO THE END OF THE LOCATE WIRE. TAGS ARE NOT REQUIRED ON VALVES IL VALVES 20'' AND LARGER. THE MINIMUM VERTICAL LIMIT OF GRAVEL IS 12'' UNDER THE VALVE VALVES 20'' AND LARGER. THE MINIMUM VERTICAL LIMIT OF GRAVEL IS 12'' UNDER THE VALVE AND LECTRIC LOCATE MARKER. MARKER SHALL BE 4'' DIA. COLOR CODED BALL MARKER RISER PIPE BOX OVER THE OPERATING NUT AND MINIMIZE INFILTRATION. SHIELD SHALL BE BOX AN ELECTRIC LOCATE MARKER. MARKER SHALL BE 4'' DIA. COLOR CODED BALL MARKER COLOR ELECTRIC LOCATE MARKER. MARKER SHALL BE 4'' DIA. COLOR CODED BALL MARKER DELECTRIC LOCATE MARKER. MARKER SHALL BE 4'' DIA. COLOR CODED BALL MARKER DELECTRIC LOCATE MARKER. MARKER SHALL BE 4'' DIA. COLOR CODED BALL MARKER DELECTRIC LOCATE MARKER. MARKER SHALL BE 4'' DIA. COLOR CODED BALL MARKER DELECTRIC LOCATE MARKER. MARKER SHALL BE 4'' DIA. COLOR CODED BALL MARKER DELECTRIC LOCATE MARKER. MARKER SHALL BE 4'' DIA. COLOR CODED BALL MARKER DELECTRIC LOCATE MARKER. MARKER SHALL BE 4'' DIA. COLOR CODED BALL MARKER DELECTRIC LOCATE MARKER. MARKER SHALL BE 4'' DIA. COLOR CODED BALL MARKER DELECTRIC LOCATE MARKER. MARKER SHALL BE 4'' DIA. COLOR CODED BALL MARKER DELECTRIC LO	CONSTRUCTION/BID REVISIONS:     SCALE:       N/A     VERIEY SCALE       N/A     VERIEY SCALE       BAR IS ONE INCH ON ORIGINAL DRAWING     VERIEY SCALE       IF NOT ONE INCH ON CRIENAL DRAWING     IF NOT ONE INCH ON CRIENAL DRAWING
	DESIGNE:       CLENT:       DESIGNE:         MERRITT       DESIGNE:       DAVIS & SONS         MERRITT       DAVIS & SONS       5/26/23 - 5ECOND SUBMITTAL         FROJECT ENGINER:       PROJECT ENGINER:       1/17/23 - FIRST SUBMITTAL         MASON       MILTCHERR       MILTCHERR         MILTCHERR:       MILLS CREEK PRESERVE PHASE 2       1/17/23 - 5IRST SUBMITTAL         MILTCHERR:       MILLS CREEK PRESERVE PHASE 2       2/26/23 - 5ECOND SUBMITTAL         MILTCHERR:       MILLS CREEK PRESERVE PHASE 2       MILTCHERR         MICHERR:       MILLS CREEK PRESERVE PHASE 2       MILTCHERR         MILTCHERR:       MASTEWATER       MASTEWATER         Destails       Destails       Destails         MICHER IDE ON DOUNC       SHEFT TILL:       WASTEWATER         Destails       Destails       Destails         Destails       Destails       Destails         PLODING       SHEFT TILL:       WASTEWATER         DETAILS       DETAILS       DESTAILS

C3.62



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1. TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN.).

2. PAY ITEM "\*" DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIC.

3. PAY ITEM "\*\*" DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.

# MECHANICAL RESTRAINT DETAILS - II

PLATE W-31D

### 2. LOCATING WIRE REQUIRED, 3. NUMBER OF TIE RODS REQU 3" - 8" DIAMET 10" - 12" DIAMETE 14" - 16" DIAMETE 18" - 20" 24" 30" - 36" 42" - 48"

# PL

JANUARY 2018

NOTES:



NOTES:

- 1. TRENCH SIDES SHALL BE APPROXIMATE CENTER LINE OF THE PIPE; OTHERWISE, STANDARDS. REFER TO THE MEASUREM PAYLINE WIDTHS.
- 2. BELL HOLE SHALL BE DUG TO PERMIT THE BOTTOM. BOULDERS OR LOOSE ROCKS I ABOVE THE TOP OF THE PIPE.
- 3. BACK FILL MATERIAL UP TO A LEVEL OF SHALL EXCLUDE CLAY MATERIALS AND L
- 4. BACKFILL MATERIAL UP TO A LEVEL 1 FO COMPACTED THICKNESS LAYERS AND SI LABORATORY MODIFIED PROCTOR TEST
- 5. SEE " EXCAVATION AND EARTHWORK", SE OF UNSUITABLE SOILS, DEWATERING, CO

# **OPEN CUT**

JANUARY 2018

υλητί Ζυτο	IN CITY KIGHT OF WAY		FL PE No. 92335 SHEET NO.: C3.63
EXCAVATION AND EARTHWO	ORK", SECTION 408 FOR ADDITIONAL REQUIREMEN	NTS INCLUDING REMOVAL AND REPLACEMENT TESTING OF COMPACTED SOILS.	document are not considered signed and sealed and the signature must be verified on any electronic copies.
ACTED THICKNESS LAYERS	AND SHALL BE COMPACTED TO 98% OF IT'S MAXII R TEST, ASTM D1557.	MUM DENSITY AS DETERMINED BY THE	Signed and sealed by Mitchell G. Mason, P.E. on the date indicated here. <u>08/16/2023</u> Printed copies of this
FILL MATERIAL UP TO A LEV EXCLUDE CLAY MATERIAL	YEL OF 1 FOOT OVER THE PIPE SHALL CONSIST OF S AND LOOSE ROCKS LARGER THAN 3/4 INCH SIZE	AASHTO CLASS A-3 SOIL (SUITABLE SOIL) AND	Mitchell G. Mason, P.E. State of Florida, Professional Engineer, License No. 92335
HOLE SHALL BE DUG TO PER DM. BOULDERS OR LOOSE R E THE TOP OF THE PIPE.	RMIT THE ENTIRE STRAIGHT BARREL OF THE PIPE ROCKS LARGER THAN 3/4 INCH IN SIZE WILL NOT B	TO REST ON THE UNDISTURBED TRENCH E PERMITTED IN BACKFILL UP TO 1 FOOT	MERF PROJECT I M MAS QUALITY C PROJECT N PROJECT N
CH SIDES SHALL BE APPRO ER LINE OF THE PIPE; OTHE DARDS. REFER TO THE MEA NE WIDTHS.	XIMATELY VERTICAL BETWEEN AN ELEVATION OF RWISE, TRENCH SIDES SHALL BE AS VERTICAL AS SUREMENT AND PAYMENT SECTION (SECTION #80	1 FOOT ABOVE THE TOP OF THE PIPE AND THE POSSIBLE OR AS REQUIRED BY OSHA 01, PARAGRAPH #4)) TO DETERMINE MAXIMUM	ER: RRITT FENCINEER: SON CONTROL: JNG NUMBER: OULMBER:
	TYPICAL TRENCH		CLIENT: PROJECT: MILLS C SHEET TITLE:
		PIPE TO BE INSTALLED ON UNDISTURBED SOIL OR SUITABLE SOIL COMPACTED TO 98% MAX. DENSITY (NOTE #2)	DAVIS & SONS CREEK PRESERVE PHASE 2 WATER AND WASTEWATER DETAILS
PIPE DIAMETER		BACKFILL COMPACTED TO 98% (SEE NOTES #3 & #4)	submittals: 1/17/23 - FIRST SUBMITTAL 5/26/23 - SECOND SUBMITTAL
	MAXIMUM TRENCH WIDTH (SEE NOTE #1)	ENERAL BACKFILL ATERIAL (SEE NOTE #5)	
ANUARY 2018	MECHANICAL RES	TRAINTS PLATE W-37	
EXTEND BEYOND THE	PLUGGED DEAD EN	ID USING	CONSTRUCTIC
3" - 8" D 10" - 12" D 14" - 16" D 18" - 20" D 24" D 30" - 36" D 42" - 48" D 54" D 4. THE LOCATION OF TH	DIAMETER MAIN - 2 TIE RODS REQUIRED PER JOINT DIAMETER MAIN - 4 TIE RODS REQUIRED PER JOINT DIAMETER MAIN - 6 TIE RODS REQUIRED PER JOINT DIAMETER MAIN - 8 TIE RODS REQUIRED PER JOINT DIAMETER MAIN -12 TIE RODS REQUIRED PER JOINT DIAMETER MAIN -14 TIE RODS REQUIRED PER JOINT DIAMETER MAIN -16 TIE RODS REQUIRED PER JOINT DIAMETER MAIN -18 TIE RODS REQUIRED PER JOINT DIAMETER MAIN -18 TIE RODS REQUIRED PER JOINT DIAMETER MAIN -18 TIE RODS REQUIRED PER JOINT	T (3/4" ROD) T (3/4" ROD) T (3/4" ROD) T (3/4" ROD) T (3/4" ROD) T (1" ROD) T (1 1/4" ROD) T (1 1/4" ROD) ENT, IF POSSIBLE. THE STUB OUT SHALL	N/BID REVISIONS:
<ol> <li>IN LIEU OF BELL/ROD</li> <li>LOCATING WIRE REQI</li> <li>NUMBER OF TIE RODS</li> </ol>	RESTRAINTS, MECHANICAL JOINT RESTRAINTS MA UIRED, UTILIZING A LOCATE WIRE BOX INSTALLED S REQUIRED IS AS FOLLOWS:	AY BE USED. AT PLUG LOCATION.	
NOTES	SECTION "A-A"		
	PLAN		SCALE: N/A VERIFY SCALE BAR IS ONE INCH C ORIGINAL DRAWIN ORIGINAL DRAWIN FF NOT ONE INCH C THIS SHEET, ADJUS SCALES ACCORDING
PLUG ANCHO LOCATE WIR (SEE NOTE #	E (TO BOX) 2) A	- MECHANICAL JOINT PLUG	U z∪ z⊢≚
THREADED S W/NUT & LOC WASHERS (T (LENGTH AS	STEEL ROD CK YP) REQUIRED)	- SOCKET CLAMP WITH SOCKET CLAMP WASHERS (TYP.)	Professional Co
STUB OUT LE BE 40 L.F.(MII JOINT RESTR	ENGTH SHALL	- 90° THREADED EYE BOLTS W/NUTS - PIPE BELL RESTRAINT	nsultants
ROUTE LOCA VALVE BOX ( MECHANICAL	TE WIRE IN SEE S-49)		8465 Merch Jacksonv est.
MECHANICAL		- THREADED STEEL ROD W/NUTS & WASHERS (TYP) LENGTH AS REQUIRED	iants Way, Ste. ville, Florida 32 (904) 619-6 www.chw-inc. <sup>1988</sup> <b>FLORI</b>
			022222 6521 6521 6521 6521 6075



PLATE W-44B

	8465 Merchants Way, Ste. 102	Jacksonville, Florida 32222	(904) 619-6521		est. 1988 FLORIDA	CA-5075	
			X		Professional Consultants		
SCALE:	N/A		VERIFY SCALE BAR IS ONE INCH ON	ORIGINAL DRAWING	IF NOT ONE INCH ON	THIS SHEET, ADJUST	SCALES ACCORDINGLY.
CONSTRUCTION/BID REVISIONS:							
SUBMITTALS:	1/17/23 - FIRST SUBMITTAL	5/26/23 - SECUND SUBMITTAL					
CLIENT:	DAVIS & SONS		PROJECT: MILLIS CREEV DRESERVE PLASE 2	MILLS CREEN FRESERVE FRASE 2	SHEET TITLE: WATER AND	WASTEWATER	DETAILS
DESIGNER:	Hitch Alitch State Engin Alitch State Engin Alitch State Engin Alitch State S	and a set of the set o	NOSEW W IELL G. Mats Floridd r, Lice Ind see that ind sei	G. J. Son, r. Sontruction of the son of the	DNNOA Q MAS DNNOA Q MAS DNNOA Q MAS DNNOA Q MAS DNNOA Q DNNOA	brone	
SHE	FI EET N	- P	<sup>TE NG</sup>	. 9i	233 52	5 1	

## JANUARY 2018

NOTE:

# LOCATE WIRE FOR BRANCH MAIN

- 4. " " INDICATES A WIRE PIG-TAIL (24" LONG)
- 3. LOCATE WIRE BOX SHALL BE INSTALLED OUTSIDE OF SIDEWALKS, DRIVEWAYS AND PAVEMENT.
- 2. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE SECTION (SEE S-30).
- 1. NOTE THAT THE BRANCH WIRE IS NOT CONNECTED TO THE MAIN WIRE.

### **BRANCH FORCE MAIN** (4" AND LARGER SEWER MAIN)



## JANUARY 2018

PLATE S-31

PLATE S-49A

3

## JANUARY 2018

# SEWER SYSTEM VALVE BOX COVER

2. LID WEIGHT: APPROX. 12 LBS.

NOTES:

1. PAINT TOP OF THE COVER WITH ENAMEL PAINT (GREEN COLOR).



## HEAVY DUTY RATING

7-3/8"



SEWE

7-3/8" SEE NOTES #1 & #2

2











PLATE S-19

	Professional Consultants       8465 Merchants Way, Ste. 102 Jacksonville, Florida 32222 (904) 619-6521 www.chw-inc.com         Professional Consultants       est. 1988 FLORIDA CA-5075	
	SCALE: N/A VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING ORIGINAL DRAWING F NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	-
	CONSTRUCTION/BID REVISIONS:	_
	submittals: 1/17/23 - FIRST SUBMITTAL 5/26/23 - SECOND SUBMITTAL	
	R: DAVIS & SONS R: PROJECT: DAVIS & SONS IL: MILLS CREEK PRESERVE PHASE 2 MILLS CREEK PRESERVE PHASE 2	
	MITCHELL G. MASON, P.E. State of Florida, Professional Engineer, License No. 92335 This item has been digitally signed and sealed by Mitchell G. Mason, P.E. on the date indicated here. <u>08/16/2033</u> Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.	
	FL PE No. 92335 SHEET NO.: C3.66	





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JANUARY 2018

PRECAST SEWER MANHOLE JOINT DETAIL

PLATE S-17

	B465 Merchants Way, Ste. 102         Jacksonville, Florida 32222         (904) 619-6521         Www.chw-inc.com         Professional Consultants
	SCALE: N/A VERIEY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
	CONSTRUCTION/BID REVISIONS:
	DAVIS & SONS LAVIS & SONS LS CREEK PRESERVE PHASE 2 WATER AND WATER AND WATER WATER DETAILS
	HIW HIW HIW HITCHELL G. MASON MITCHELL G. MASON
	FL PE No. 92335 SHEET NO.: C3.68



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	4	
		Professional Consultants       8465 Merchants Way, Ste. 102         B465 Merchants Way, Ste. 102       32222         Jacksonville, Florida 32222       32222         Mww.chw-inc.com       904) 619-6521         Professional Consultants       est. 1988 FLORIDA         CA-5075       CA-5075
		ALE CH ON AWING CH ON CH ON ADJUST DINGLY.
		CALE: N/A VERIEY SC/ BAR IS ONE IN/ ORIGINAL DR/ ORIGINAL DR/ THIS SHEET, A SCALES ACCORI
5' 5/W 1.50%	$FO \bigcirc TELE \bigcirc \\ 5' \longrightarrow 3' \longrightarrow 3' \longrightarrow 3'$	CONSTRUCTION/BID REVISIONS:
5' 5/W 1.50%		submittals: 1/17/23 - FIRST SUBMITTAL 5/26/23 - SECOND SUBMITTAL
		CLIENT: DAVIS & SONS PROJECT: MILLS CREEK PRESERVE PHASE 2 MILLS CREEK PRESERVE PHASE 2 SHEET TITLE: TYPICAL SECTIONS
		ESIGNEE: WITCHELL G. MASON MITCHELL G. MASON MITCHELL G. MASON MITCHELL G. MASON Mitchell G. Mason, P.E. State of Florida, Professional Engineer, License No. 92335 This item has been digitally signed and sealed by Mitchell G. Mason, P.E. on the date indicated here. <u>08/16/2023</u> Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
		FL PE No. 92335
		C4.00