

CONSTRUCTION DRAWINGS FOR THE WATER SYSTEM INTERCONNECT UPGRADES



City of Pompano Beach
301 Northeast 12th Street
Pompano Beach, Florida 33060



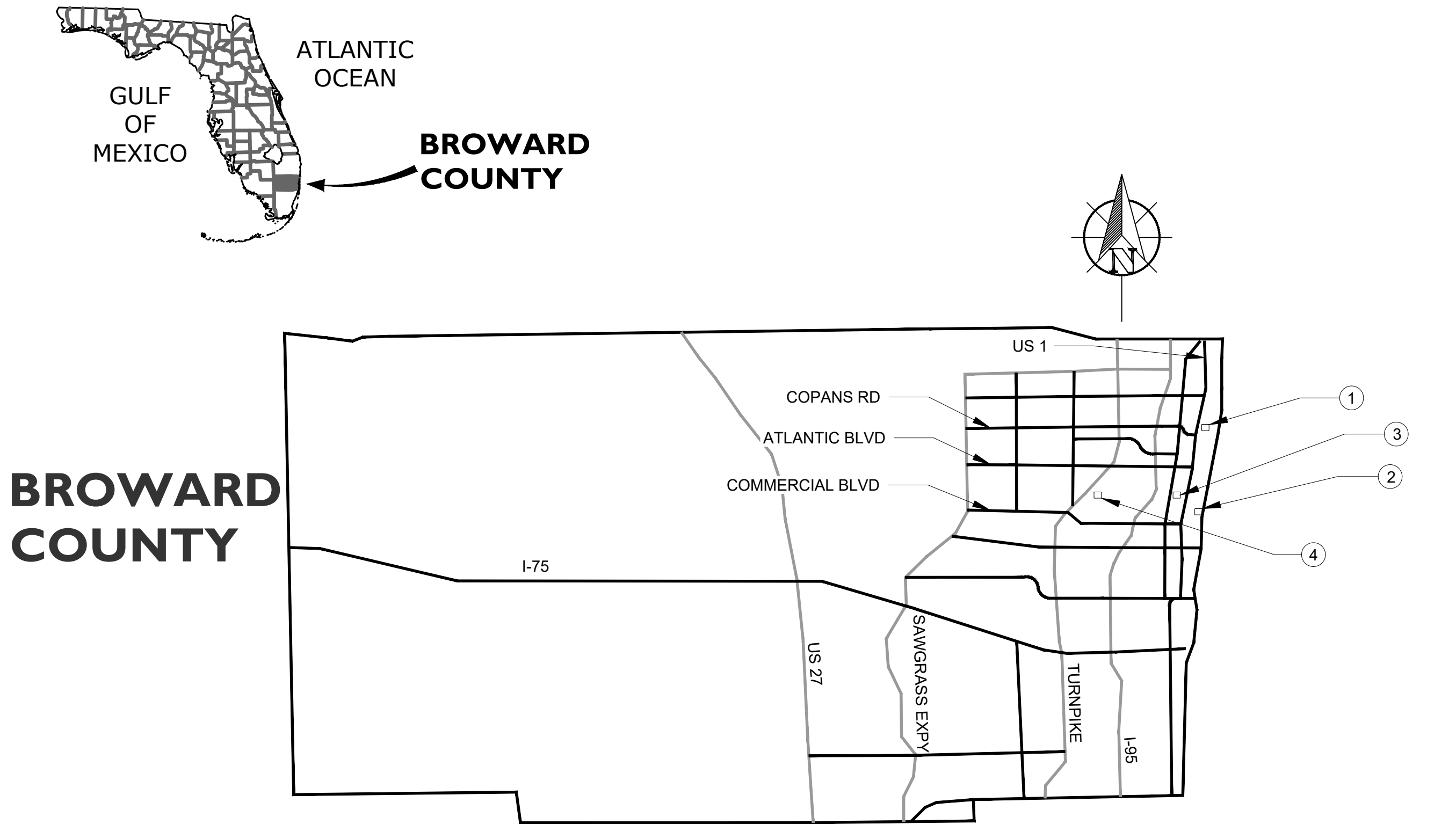
THE VERTICAL DATUM USED FOR THESE DRAWINGS IS NAVD88

APRIL 2019
MBC NO. 11-020
OWNER PROJECT NO. 105315

BID SET

PROJ. NO. 105315 DWG. NO. 8319-71-086

File: \\BCE\\MBC Public\\Shared\\Project Files\\Pompano Beach\\11-020 Water System Interconnect Upgrades\\Progress Submittals\\Bid Set\\Drawings\\CAD\\General\\G-1 - BCWWS.dwg



① BROWARD COUNTY WATER AND WASTEWATER SERVICES (BCWWS)
(N.E. 25TH STREET)
SECTION 24 TOWNSHIP 48 RANGE 42



② CITY OF FORT LAUDERDALE 1 OF 3
(STATE ROAD A1A)



③ CITY OF FORT LAUDERDALE 2 OF 3
(N.E. 20TH TERRACE)



④ CITY OF FORT LAUDERDALE 3 OF 3
(WEST McNAB ROAD)

PROJECT LOCATION MAP

SCALE: NTS

	BY	DATE	NO.	DATE	REVISIONS
DESIGNED	FAB	4/23/19			
DRAWN	AHB	4/23/19			
CHECKED	FAB	4/23/19			
APPROVED	FAB	4/23/19			

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City of Pompano Beach
WATER SYSTEM
INTERCONNECT UPGRADES

LOCATION MAP, GENERAL NOTES,
AND DRAWING INDEX

PROJECT 11-020

SCALE NTS

BAR IS 1" ON

ORIGINAL DRAWING

DRAWING G-1

SHEET 2 OF 15

DRAWING INDEX

SHEET NUMBER	DRAWING NUMBER	TITLE
		GENERAL
1	G-0	COVER SHEET
2	G-1	LOCATION MAP, GENERAL NOTES, AND DRAWING INDEX
3	G-2	LEGEND AND ABBREVIATIONS
4	G-3	EXISTING SITE SURVEYS
		CIVIL
5	C-1	SITE PLAN - BCWWS N.E. 25TH STREET
6	C-2	SITE PLAN - CITY OF FORT LAUDERDALE 1 OF 3 STATE ROAD A1A
7	C-3	SITE PLAN - CITY OF FORT LAUDERDALE 2 OF 3 N.E. 20TH TERRACE
8	C-4	SITE PLAN - CITY OF FORT LAUDERDALE 3 OF 3 WEST McNAB ROAD
9	CD-1	MISCELLANEOUS CIVIL DETAILS
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11	M-1	INTERCONNECT UPGRADE PLAN AND SECTION - N.E. 25TH STREET
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13	M-3	INTERCONNECT UPGRADE PLAN AND SECTION - N.E. 20TH TERRACE
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15	MD-1	MISCELLANEOUS MECHANICAL DETAILS

GENERAL NOTES

- The CONTRACTOR shall be responsible at all times throughout the duration of construction for the protection of all structures and utilities from damage or service disruption.
- The CONTRACTOR is advised that all subsurface utilities are to be verified prior to the beginning of work. Utilities in the vicinity include but may not be limited to the following: FDOT communication cable, TECO gas mains, sanitary sewer force mains, sanitary sewer gravity mains, storm sewers, and abandoned water mains.
- The CONTRACTOR shall call 811 for utility clearance.
- The CONTRACTOR shall be responsible for taking such measures as necessary to protect the health, safety, and welfare of those persons having access to the work site.
- The CONTRACTOR shall give adequate notification to all affected utility owners for removal, relocation and alteration of their existing facilities.
- Where encountered, unsuitable material shall be removed to a depth and area determined by the ENGINEER and backfilled with clean granular sand or select material approved by the ENGINEER. Backfilling shall be in layers not greater than 8" thickness and compacted to 98 percent of maximum density as determined by AASHTO T-180.
- All work shall be performed in a workmanship-like manner and shall meet with all applicable city, county, state and federal regulations and/or codes, including OSHA, Broward County Water and Wastewater "Minimum Design and Construction Standards", and Florida Department of Transportation's current Utility Accommodation Manual and Standard Specifications for Road and Bridge Design.
- The CONTRACTOR shall obtain all required permits and/or licenses to commence construction.
- The CONTRACTOR shall guarantee all work and materials for a period of one year from the date that the project has been accepted. All faulty construction and/or materials found during the aforesaid period shall be corrected at the CONTRACTOR's expense.
- Water system components shall be installed in strict accordance with all local codes and regulations, tested, cleaned, disinfected and bacteriologically cleared for service in accordance with the latest AWWA standards and chapter 62-555, F.A.C.
- All pipe shall bear the "NSF" seal for potable water.
- Unless otherwise noted, depth of water lines from crown of pipe to finished grade shall be 36" minimum.
- All water mains shall be pressure tested in accordance with Specification Section 15052.
- All water piping shall be flushed, disinfected, and sampled for bacteriological clearance in accordance with AWWA C651. Flushing and disinfection plan shall be submitted to the Engineer for review and approval prior to beginning work.
- All underground pipe and fittings shall be restrained joint.
- CONTRACTOR shall field-locate pipe at all tie-in points to confirm existing pipe elevations, materials, configuration, and joint locations prior to preparation of pipe layout drawings, schedules, and shop drawings. CONTRACTOR shall submit detailed, dimensioned pipe layout drawings, schedule of materials and equipment, and shop drawings based on the findings of field investigations for approval by the ENGINEER prior to releasing materials and equipment.
- The vertical datum used for these drawings is NAVD88.

BID SET

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LIST OF STANDARD ABBREVIATIONS

ABBREVIATION	ABBREVIATED TERM	ABBREVIATION	ABBREVIATED TERM	ABBREVIATION	ABBREVIATED TERM	ABBREVIATION	ABBREVIATED TERM
A	ALARM ANNUNCIATOR PANEL	E	EAST	L	LEFT	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
AAP	AUTOMATIC AIR RELEASE AIR VALVE	E	EACH	L	LAB	RPM	REVOLUTION PER MINUTE
AARV	AUTOMATIC AIR VENT	ECC	ECCENTRIC	LAM	LAMINATE OR LAMINATION	RR	RAILROAD
AAV	ANCHOR BOLT	EF	EACH FACE	LATL	LATERAL	RW	RAW WATER
AB	ABANDON(ED)	EFL	EFFLUENT	LAV	LAVATORY	RWW	RECYCLE WASH WATER
ABRSV	ABRASIVE	E	EASEMENT LINE	LB	POUND(S)	R/W	RIGHT OF WAY
ABS	ACRYLONITRILE BUTADIENE STYRENE	E	ELEVATION	LF	LINEAR FEET	S	SOUTH
ABV	ABOVE	ELAST	ELASTOMERIC	LP	LIGHT POLE	SA	SAMPLE
AC	ALTERNATING CURRENT	ELEC	ELECTRICAL	LS	LUMP SUM	SAN	SANITARY
ACOMP	ASPHAL COATED CORRUGATED METAL PIPE	EMER	EMERGENCY	LVR	LOUVER	SCHED	SCHEDULE
ACP	ASBESTOS CEMENT PIPE	ENG	ENGINEER	LWL	LOW WATER LINE	SD	STORM DRAIN
ADDM	ADDENDUM	EOP	EDGE OF PAVEMENT	M	METER	SE	SOUTHEAST
ADH	ADHESIVE	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	MAINT	MAINTAIN OR MAINTENANCE	SECT	SECTION
AFF	ABOVE FINISHED FLOOR	EPF	EXPLOSION PROOF	MAN	MANUAL(LY)	SF	SQUARE FEET OR FOOT
AFG	ABOVE FINISHED GRADE	EQUIP	EQUIPMENT	MAS	MASONRY	SHT	SHEET(ED)(ING)
AFS	ABOVE FINISHED SLAB	ER	ECCENTRIC REDUCER	MATL	MATERIAL	SIG	SIGNAL
AG	AMMONIA GAS	ESTM	EASEMENT	MAX	MAXIMUM	SIM	SIMILAR
AHD	AHEAD	EST	ESTIMATE(D)	MCC	MOTOR CONTROL CENTER	SL	SEWER LATERAL
AL	ALUMINUM	EW	EACH WAY	ME	MITERED END	SLV	SLEEVE
ALT	ALTERNATE	EXC	EXCAVATE	SM	MECHANICAL	SM	SHEET METAL
AMP	AMPERE	EXP	EXPANSION	MFR	MANUFACTURE(R)	SOLN	SOLUTION
AMT	AMOUNT	EXST	EXISTING	MG	MILLION GALLONS	SP	SOIL PIPE
APRX	APPROXIMATE(LY)	EXST GR	EXISTING GRADE	MGD	MILLION GALLONS PER DAY	SP	SPACE(ING)
ARCH	ARCHITECT(URAL)	EXT	EXTERIOR	MH	MANHOLE	SPEC	SPECIFICATION
ASPH	ASPHALT	EXTN	EXTENSION	MI	MILE(S)	SPRT	SUPPORT
ASSY	ASSEMBLY			MIN	MINIMUM	SQ	SQUARE
AVE	AVENUE			MIN	MINUTE(S)	SS	SANITARY SEWER
A/C	AIR CONDITIONING	FAB	FABRICATE(D)	MISC	MISCELLANEOUS	SST	STAINLESS STEEL
A/VV	AIR/VACUUM AIR VALVE	FAC	FLANGED ADAPTER COUPLING	MJ	MECHANICAL JOINT	ST	STREET
AW	AIRWASH	FB	FLAT BAR	MON	MONUMENT	STA	STATION
		FCV	FLOW-CONTROL VALVE	MTH	MILES PER HOUR	STD	STANDARD
		FD	FLOOR DRAIN	MPT	MALE PIPE THREAD	STK	STAKE
		FDN	FOUNDATION	MS	MOTOR	STL	STEEL
		FE	FILTER(ED) EFFLUENT	MSP	MOTOR STARTER	STR	STRAIGHT
		FHY	FIRE HYDRANT	MTD	MOUNTED	STRUCT	STRUCTURAL
		FIG	FIGURE	MW	MANWAY	SURF	SURFACE
		FIN	FINISH(ED)	MWL	MEAN WATER LEVEL	SV	SOLENOID VALVE
		FIN FL	FINISHED FLOOR	MWP	MAXIMUM WORKING PRESSURE	SVCE	SERVICE
		FIN GR	FINISHED GRADE			SW	SOUTHWEST
		FL	FLORIDA			SWD	SIDEWATER DEPTH
		FLG	FLANGE(D)	N	NORTH	SWSH	SURFACE WASH
		FLL	FLOW LINE	NE	NORTHEAST	SYM	SYMBOL
		FLTR	FILTER	NIC	NOT IN CONTACT	SYMM	SYMMETRICAL
		FM	FORCE MAIN	NO	NUMBER	S/Y	SIDEWALK
		FOC	FIBER OPTIC CABLE	NOM	NOMINAL		
		FPM	FEET PER MINUTE	NPF	NATIONAL PIPE THREAD	I	TANGENT
		FPS	FEET PER SECOND	NPT	NATIONAL PIPE TAPER (THREAD)	TAN	TOP OF BEAM
		FRP	FIBERGLASS REINFORCED PLASTIC	NPW	NON-POTABLE WATER	TBM	TEMPORARY BENCH MARK
		FT	FOOT OR FEET	NRS	NON-RISING SYSTEM	TB-xx	TEST BORING-xx (e.g. TB-1)
		FTW	FILTER TO WASTE	NTS	NOT TO SCALE	TD	TRENCH DRAIN
		FUT	FUTURE	NW	NORTHWEST	TDH	TOTAL DYNAMIC HEAD
		FV	FOOT VALVE	N/A	NOT APPLICABLE	TEFC	TOTALLY ENCLOSED FAN COOLED
		FW	FILTERED WATER			TEL	TELEPHONE
		FWP	FACTORY WIRED PANEL			TENV	TOTALLY ENCLOSED NON-VENTILATED
		F/F	FACE TO FACE			THD	THREAD(ED)
				O	OXYGEN	THK	THICK(NESS)
				OC	ON CENTER	THM	TELEMETRY
				OD	OUTSIDE DIAMETER	TOB	TOP OF BANK
				ODP	OPEN DRIP PROOF	TOS	TOE OF SLOPE
				OF	OUTSIDE FACE	TOT	TOTAL
				OPP	OPPOSITE	TP	TELEPHONE POLE
				OPT	OPTIONAL	TV	TELEVISION
				OSY	OUTSIDE SCREW AND YOKE	TYP	TYPICAL
				O&M	OPERATION AND MAINTENANCE	T&B	TOP AND BOTTOM
				O/E	OR EQUAL		
						U	UNDERDRAIN
				P	POINT OF CURVE	UD	UNDERGROUND
				PC	PRESTRESSED CONCRETE CYLINDER PIPE	UG	ULTIMATE
				PCCP	PERMANENT CONTROL MONUMENT	UN	UNION
				PCM	PLAIN END	UON	UNLESS OTHERWISE NOTED
				PE	PERMEATE	UTC	UNDERGROUND TELEPHONE CABLE
				PERM	PRESSURE GAGE	UTIL	UTILITY
				PG	POINT OF INTERSECTION		
				PI	PLATE	V	VOLT(S)
				PL	PROPERTY LINE	V	VACUUM
				POB	POINT OF BEGINNING	VAC	VARIABLE
				POJ	PUSH-ON JOINT	VC	VERTICAL DATUM
				PP	POWER POLE	VCP	VITRIFIED CLAY PIPE
				PPD	POUNDS PER DAY	VEL	VELOCITY
				PPM	PARTS PER MILLION	VERT	VERTICAL
				PREFAB	PREFABRICATED	VFD	VARIABLE FREQUENCY DRIVE
				PRESS	PRESSURE	VOL	VOLUME
				PRV	PRESSURE REDUCING VALVE		
				PRW	PROCESS WATER	W	WATT
				PS	PUMP STATION	W	WEST
				PSF	PRESSURIZED SOLUTION FEED	WAS	WASTE ACTIVATED SLUDGE
				PSI	POUNDS PER SQUARE INCH	WCO	WALL CLEAN OUT
				PSIG	POUNDS PER SQUARE INCH ABSOLUTE	WF	WIDE FLANGE
				PT	POINT OF TANGENCY	WH	WALL HYDRANT
				PV	PLUG VALVE	WJ	WELD JOINT
				PVC	POLYVINYL CHLORIDE	WL	WATER LINE
				PWMT	PAVEMENT	WM	WATER MAIN
				PW	POTABLE WATER	WP	WORKING SURFACE
				PWR	POWER	WS	WATER SURFACE
						WSP	WELDED STEEL PIPE
				Q	FLOW QUANTITY	WT	WEIGHT
				QTY		WTP	WATER TREATMENT PLANT
						WUP	WOOD UTILITY POLE
				R	RADIUS	WW	WASH WATER
				RAD	RETURN ACTIVATED SLUDGE	WWF	WELDED WIRE FABRIC
				RAS	REINFORCED CONCRETE	WWM	WELDED WIRE MESH
				RC	REINFORCED CONCRETE BOX	WWTP	WASTEWATER TREATMENT PLANT
				RCB	REINFORCED CONCRETE PIPE	W/O	WITHOUT
				RCP	REINFORCED CONCRETE PIPE ARCH	X	TRANSFER
				RCPA	RECLAIMED WATER MAIN	Y	YARD(S)
				RCWM	ROAD	YD	YARD HYDRANT
				RD	REDUCER	YR	YEAR(S)
				RDC	REINFORCING STEEL		
				REBAR	REFERENCE		
				REF	REINFORCE(D)(ING)(MENT)		
				REINF	REMOVE(ABLE)		
				REM	REQUIRED		
				REQD	RAISED FACE		
				RF	RESTRAINED FLANGED COUPLING ADAPTER		
				RFC	RESTRAINED JOINT		
				RJ	ROOM		
				RM	RIGHT OF WAY		
				R/W			

PIPING LEGEND

FITTING/ APPURTENANCE	SINGLE LINE		DOUBLE LINE							
	EXISTING	PROPOSED	FLANGED		MECHANICAL-JOINT		GROOVE-JOINT		WELDED STEEL	
			EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
BEND										
TEE										
CONCENTRIC REDUCER										
CAP					N/A	N/A			N/A	N/A
PLUG (PLUGGED VALVE)			N/A	N/A						
BUTTERFLY VALVE										
BALL VALVE										
CHECK VALVE										
GATE VALVE										
PLUG VALVE										
PINCH VALVE										

CIVIL LEGEND

BASELINE	
PROPERTY LINE	
RIGHT OF WAY	
EASEMENT LINE	
BENCH MARK	
CONTROL ELEVATION	
MONUMENT	
EXISTING SPOT ELEVATION	
FINISH SPOT ELEVATION	
EXISTING CONTOUR	
FINISH CONTOUR	
EMBANKMENT	
SURFACE DRAINAGE	
FENCE	
MISCELLANEOUS UTILITY	
VEGETATION	
WATER METER	
LIGHT POLE	
ELECTRIC RISER	
STORM MANHOLE	
WELL	

REFERENCE SYMBOLS

 DENOTES SECTION LETTER IDENTIFICATION DENOTES DRAWING NO. WHERE SECTION IS LOCATED SECTION REFERENCE	 DENOTES DETAIL NUMBER IDENTIFICATION DENOTES DRAWING NO. WHERE DETAIL IS LOCATED DETAIL REFERENCE
 DENOTES SECTION LETTER IDENTIFICATION TITLE SCALE: DENOTES DRAWING NO. SECTION TAKEN FROM SECTION TITLE	 DENOTES DETAIL NUMBER IDENTIFICATION TITLE SCALE: DENOTES DRAWING NO. WHERE DETAIL IS REFERENCED DETAIL TITLE

MECHANICAL/DRAFTING LEGEND

	EXISTING	PROPOSED
VISIBLE LINE		
HIDDEN LINE		
CENTER LINE		
LONG BREAK LINE		
SHORT BREAK LINE		
DIMENSIONS AND LEADERS		

HATCHING LEGEND

	ASPHALT OR CONCRETE SURFACE (SIDEWALK OR ROADWAY)		PRECAST CONCRETE
	ROADWAY/SIDEWALK OPEN CUT RESURFACE		GROUT
	SODDED OR SEEDDED AND MULCHED AREA		CONCRETE UNIT MASONRY
	EARTH		STEEL
	EXISTING PIPES, STRUCTURES, EQUIPMENT TO BE REMOVED		ALUMINUM
	CAST-IN-PLACE CONCRETE		GRATING
	GRAVEL		

BID SET

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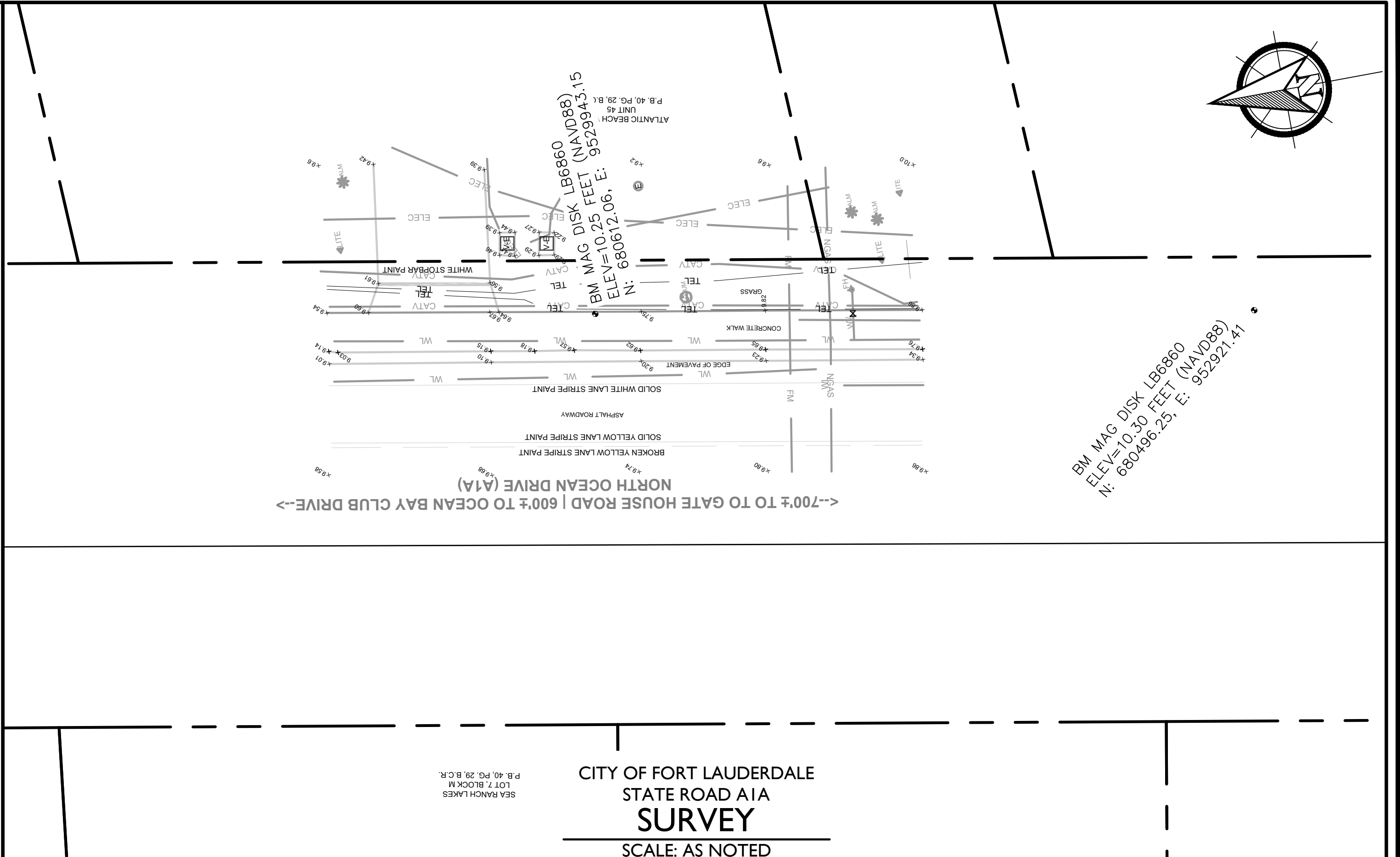
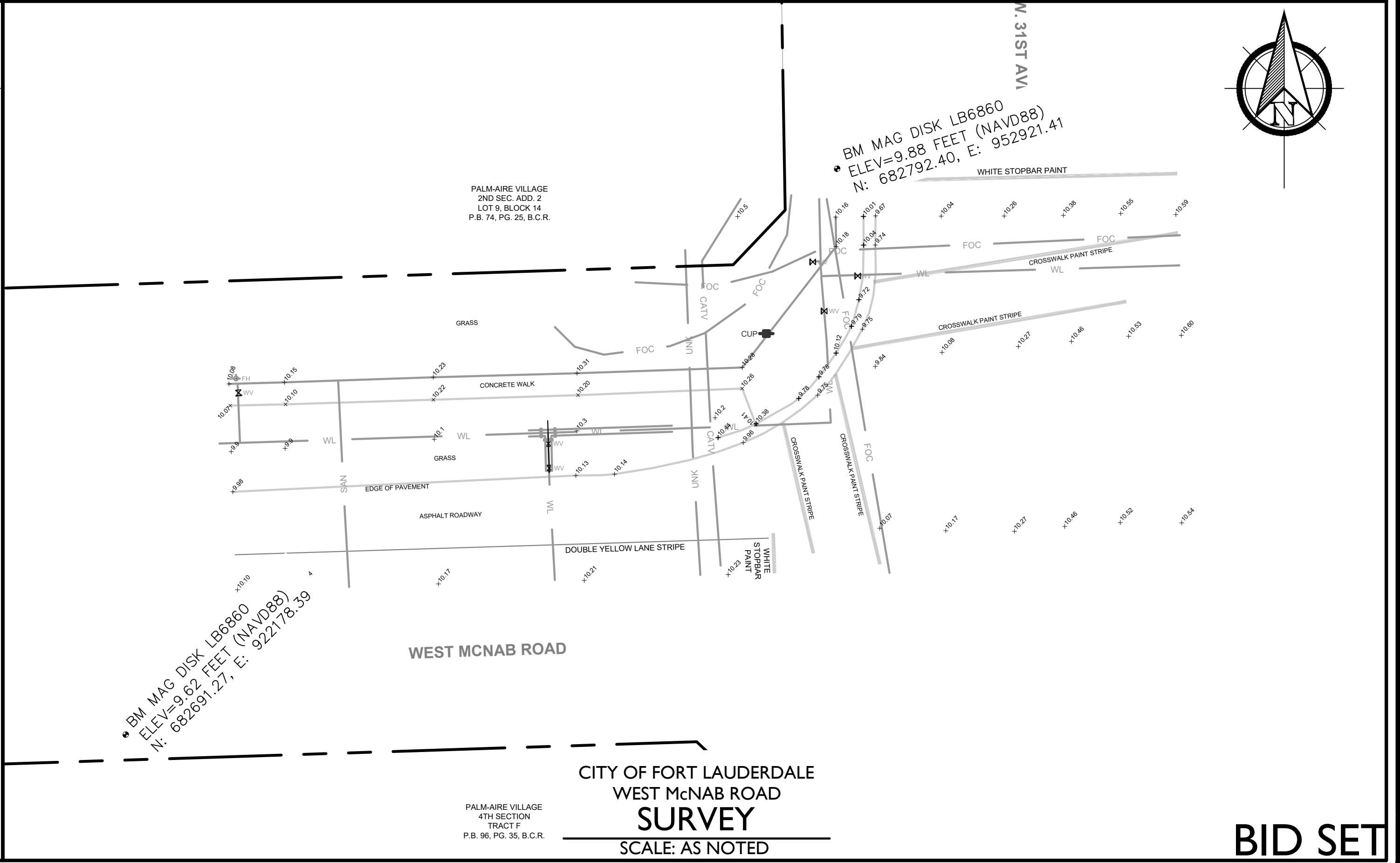
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City of Pompano Beach
WATER SYSTEM
INTERCONNECT UPGRADES

LEGEND AND ABBREVIATIONS

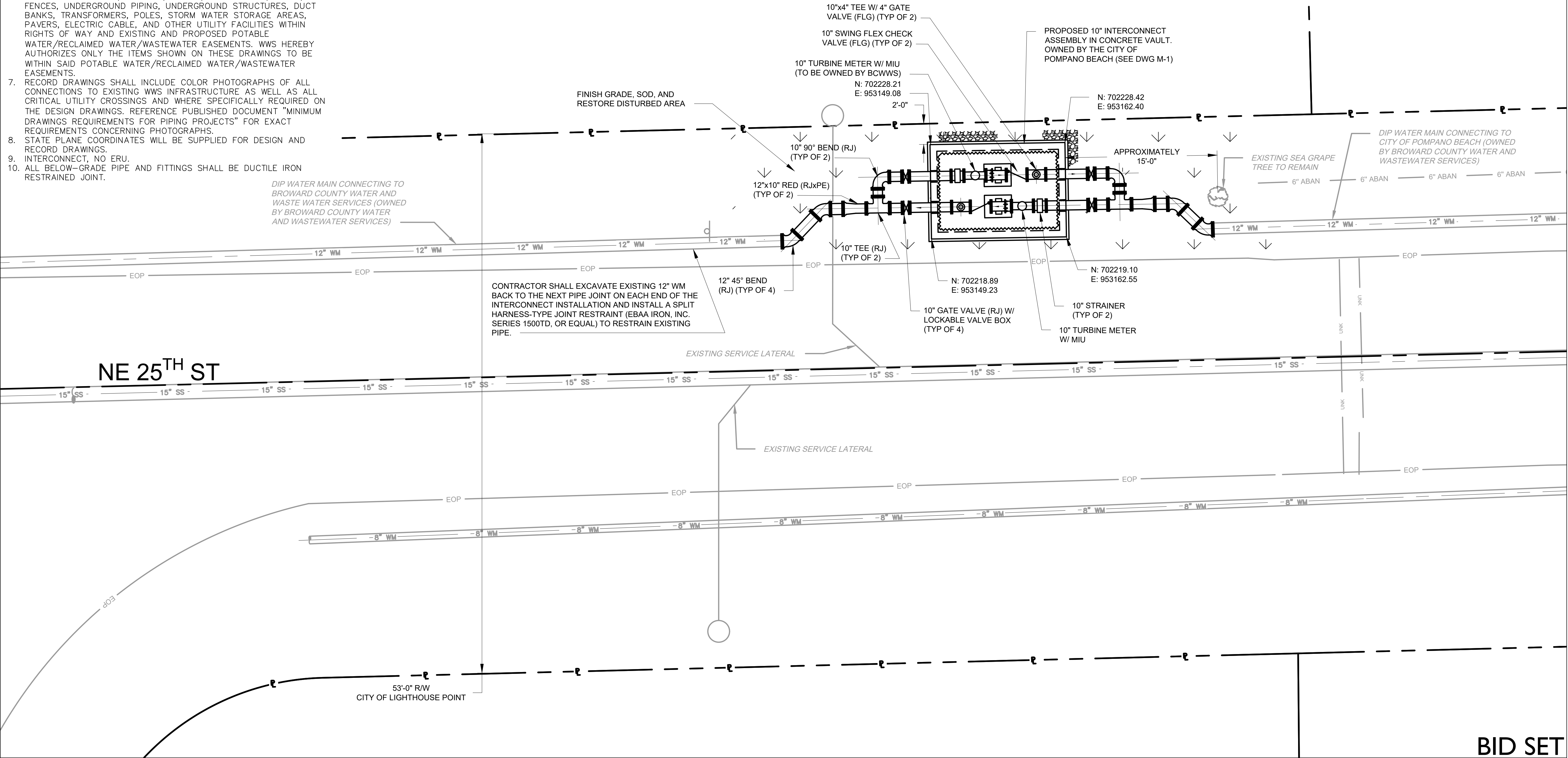
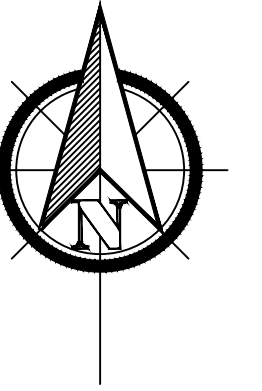
PROJECT 11-020
SCALE NTS
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DRAWING G-2
SHEET 3 OF 15



File: \\MBC\Public\Shared\Project Files\Pompano Beach\11-020 Water System Interconnect Upgrades\Progress Submittals\Bid Set\Drawings\CAD\Civil\11-020.dwg

NOTES:

1. ALL UNDERGROUND PIPE AND FITTINGS SHALL BE RESTRAINED JOINT DUCTILE IRON.
2. CONTRACTOR SHALL FIELD-LOCATE PIPE AT TIE-IN POINTS TO CONFIRM EXISTING PIPE ELEVATIONS, MATERIALS, AND CONFIGURATION PRIOR TO PREPARATION OF PIPE LAYOUT DRAWINGS, SCHEDULES, AND SHOP DRAWINGS. CONTRACTOR SHALL SUBMIT DETAILED, DIMENSIONED PIPE LAYOUT DRAWINGS, VAULT DRAWINGS SCHEDULE OF MATERIALS AND EQUIPMENT, AND SHOP DRAWINGS BASED ON THE FINDINGS OF THE FIELD INVESTIGATIONS FOR APPROVAL BY THE ENGINEER PRIOR TO RELEASING MATERIALS AND EQUIPMENT.
3. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND STRUCTURES FROM DAMAGE DURING CONSTRUCTION.
4. ALL DISTURBED AREAS SHALL BE RESTORED TO EXISTING CONDITIONS, INCLUDING CONCRETE/ASPHALT REPAIRS, MILLING AND RE-SURFACING, SODDING, SIDEWALK REPAIR, ETC.
5. CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST WATER AND WASTEWATER SERVICES MINIMUM DESIGN AND CONSTRUCTION STANDARDS. PLANS ARE IN ACCORDANCE WITH WWS MINIMUM DRAWING REQUIREMENTS DATED JANUARY 9, 2013.
6. WWS APPROVAL OF THIS SET OF DRAWINGS IS RELIANT UPON THE DRAWINGS CLEARLY SHOWING ALL EXISTING AND PROPOSED ABOVE GROUND STRUCTURES, ASPHALT, PAVING, LANDSCAPING, WALLS, FENCES, UNDERGROUND PIPING, UNDERGROUND STRUCTURES, DUCT BANKS, TRANSFORMERS, POLES, STORM WATER STORAGE AREAS, PAVERS, ELECTRIC CABLE, AND OTHER UTILITY FACILITIES WITHIN RIGHTS OF WAY AND EXISTING AND PROPOSED POTABLE WATER/RECLAIMED WATER/WASTEWATER EASEMENTS. WWS HEREBY AUTHORIZES ONLY THE ITEMS SHOWN ON THESE DRAWINGS TO BE WITHIN SAID POTABLE WATER/RECLAIMED WATER/WASTEWATER EASEMENTS.
7. RECORD DRAWINGS SHALL INCLUDE COLOR PHOTOGRAPHS OF ALL CONNECTIONS TO EXISTING WWS INFRASTRUCTURE AS WELL AS ALL CRITICAL UTILITY CROSSINGS AND WHERE SPECIFICALLY REQUIRED ON THE DESIGN DRAWINGS. REFERENCE PUBLISHED DOCUMENT "MINIMUM DRAWINGS REQUIREMENTS FOR PIPING PROJECTS" FOR EXACT REQUIREMENTS CONCERNING PHOTOGRAPHS.
8. STATE PLANE COORDINATES WILL BE SUPPLIED FOR DESIGN AND RECORD DRAWINGS.
9. INTERCONNECT, NO ERU.
10. ALL BELOW-GRADE PIPE AND FITTINGS SHALL BE DUCTILE IRON RESTRAINED JOINT.




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Florida's Warmest Welcome

City of Pompano Beach

WATER SYSTEM
INTERCONNECT UPGRADES

SITE PLAN
BCWWS
N.E. 25TH STREET

PROJECT	11-020
SCALE	1" = 5'-0" BAR IS 1" ON
ORIGINAL DRAWING	
DRAWING	C-1
SHEET	5 OF 15

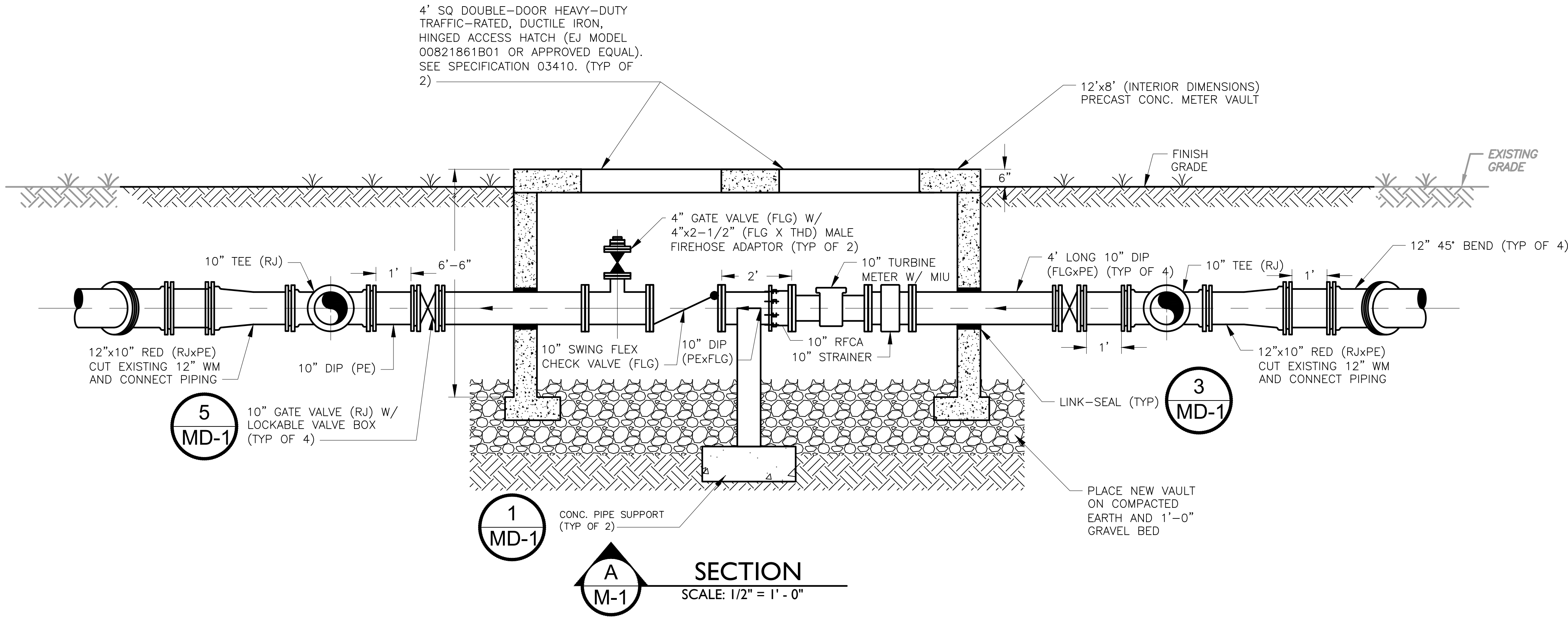
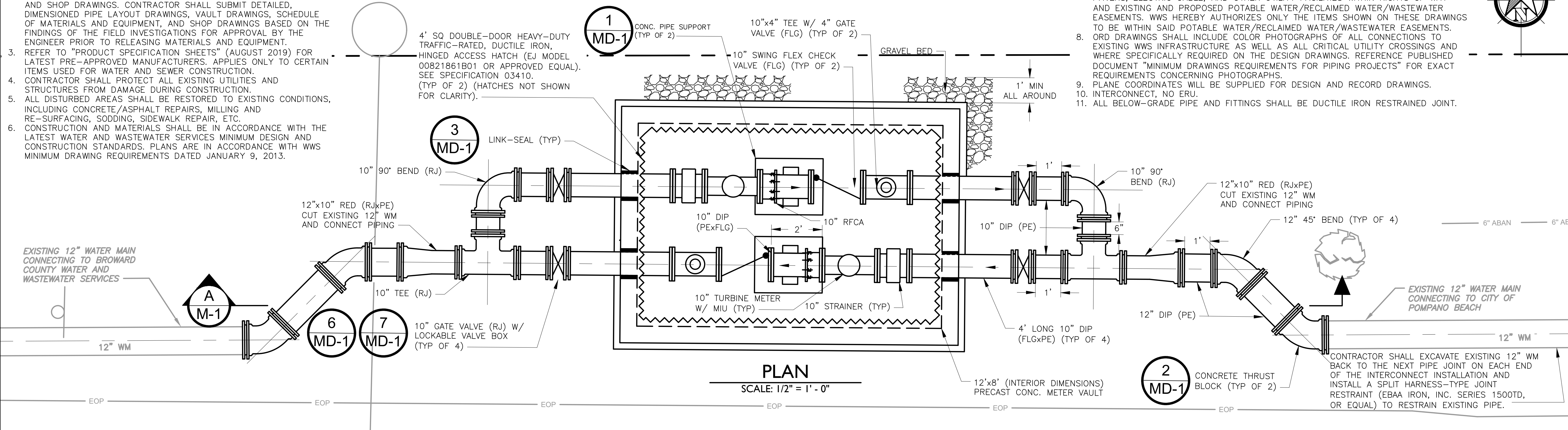
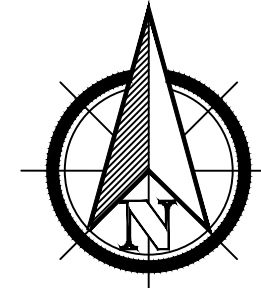
File: \\mbc\public\shared\project files\pompano beach\11-020 water system interconnect upgrades\progress submittals\Bld Set\Drawings\CAD\Mechanical\M-1.dwg

NOTES:

1. ALL UNDERGROUND PIPE AND FITTINGS SHALL BE RESTRAINED JOINT DUCTILE IRON.
2. CONTRACTOR SHALL FIELD-LOCATE PIPE AT TIE-IN POINTS TO CONFIRM EXISTING PIPE ELEVATIONS, MATERIALS, AND CONFIGURATION PRIOR TO PREPARATION OF PIPE LAYOUT DRAWINGS, SCHEDULES, AND SHOP DRAWINGS. CONTRACTOR SHALL SUBMIT DETAILED, DIMENSIONED PIPE LAYOUT DRAWINGS, VAULT DRAWINGS, SCHEDULE OF MATERIALS AND EQUIPMENT, AND SHOP DRAWINGS BASED ON THE FINDINGS OF THE FIELD INVESTIGATIONS FOR APPROVAL BY THE ENGINEER PRIOR TO RELEASING MATERIALS AND EQUIPMENT.
3. REFER TO "PRODUCT SPECIFICATION SHEETS" (AUGUST 2019) FOR LATEST PRE-APPROVED MANUFACTURERS. APPLIES ONLY TO CERTAIN ITEMS USED FOR WATER AND SEWER CONSTRUCTION.
4. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND STRUCTURES FROM DAMAGE DURING CONSTRUCTION.
5. ALL DISTURBED AREAS SHALL BE RESTORED TO EXISTING CONDITIONS, INCLUDING CONCRETE/ASPHALT REPAIRS, MILLING AND RE-SURFACING, SODDING, SIDEWALK REPAIR, ETC.
6. CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST WATER AND WASTEWATER SERVICES MINIMUM DESIGN AND CONSTRUCTION STANDARDS. PLANS ARE IN ACCORDANCE WITH WWS MINIMUM DRAWING REQUIREMENTS DATED JANUARY 9, 2013.

NOTES CONT.:

7. WS APPROVAL OF THIS SET OF DRAWINGS IS RELIANT UPON THE DRAWINGS CLEARLY SHOWING ALL EXISTING AND PROPOSED ABOVE GROUND STRUCTURES, ASPHALT, PAVING, LANDSCAPING, WALLS, FENCES, UNDERGROUND PIPING, UNDERGROUND STRUCTURES, DUCT BANKS, TRANSFORMERS, POLES, STORM WATER STORAGE AREAS, PAVERS, ELECTRIC CABLE, AND OTHER UTILITY FACILITIES WITHIN RIGHTS OF WAY AND EXISTING AND PROPOSED POTABLE WATER/RECLAIMED WATER/WASTEWATER EASEMENTS. WWS HEREBY AUTHORIZES ONLY THE ITEMS SHOWN ON THESE DRAWINGS TO BE WITHIN SAID POTABLE WATER/RECLAIMED WATER/WASTEWATER EASEMENTS.
8. ORD DRAWINGS SHALL INCLUDE COLOR PHOTOGRAPHS OF ALL CONNECTIONS TO EXISTING WWS INFRASTRUCTURE AS WELL AS ALL CRITICAL UTILITY CROSSINGS AND WHERE SPECIFICALLY REQUIRED ON THE DESIGN DRAWINGS. REFERENCE PUBLISHED DOCUMENT "MINIMUM DRAWINGS REQUIREMENTS FOR PIPING PROJECTS" FOR EXACT REQUIREMENTS CONCERNING PHOTOGRAPHS.
9. PLANE COORDINATES WILL BE SUPPLIED FOR DESIGN AND RECORD DRAWINGS.
10. INTERCONNECT, NO ERU.
11. ALL BELOW-GRADE PIPE AND FITTINGS SHALL BE DUCTILE IRON RESTRAINED JOINT.



BID SET

	BY	DATE	NO.	DATE	REVISIONS
DESIGNED	FAB	4/23/19			
DRAWN	AHB	4/23/19			
CHECKED	FAB	4/23/19			
APPROVED	FAB	4/23/19			

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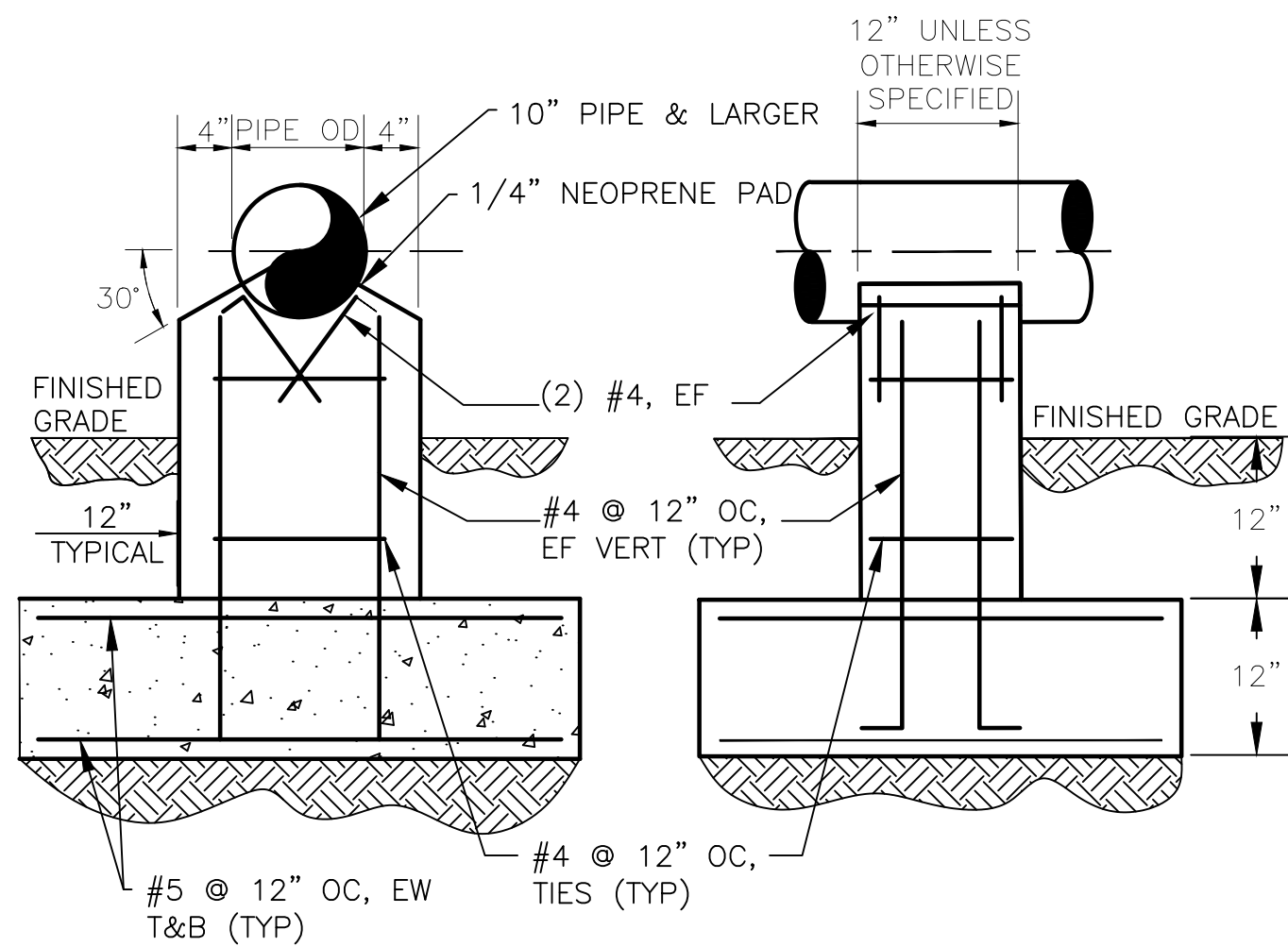


City of Pompano Beach
WATER SYSTEM
INTERCONNECT UPGRADES

**INTERCONNECT UPGRADE
PLAN AND SECTION
N.E. 25TH STREET**

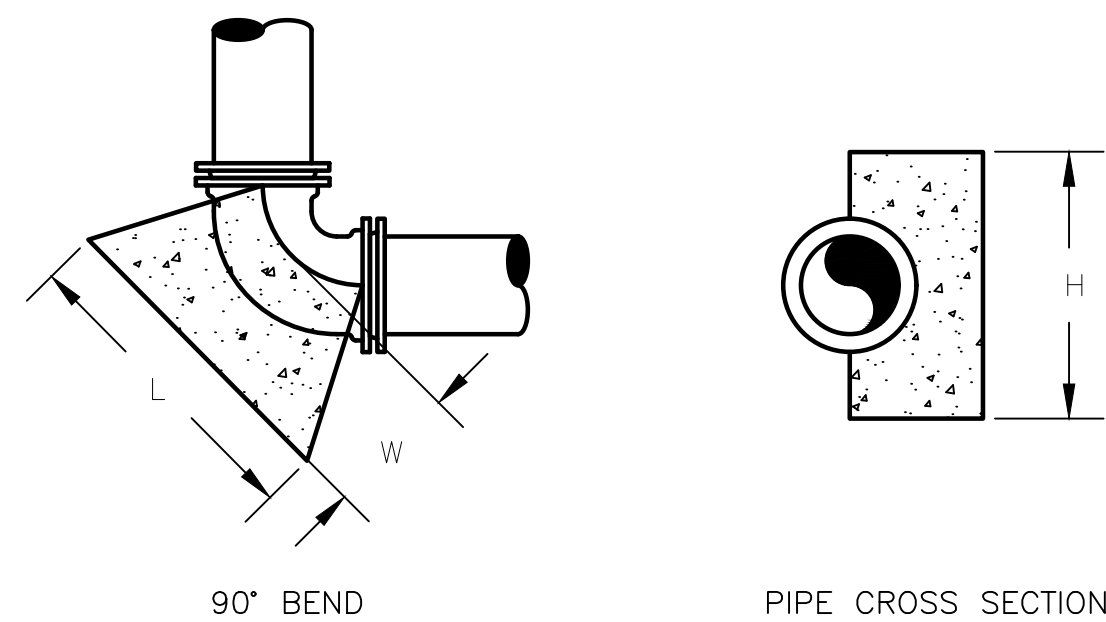
PROJECT 11-020
SCALE 1/2" = 1'-0"
BAR IS 1" ON
ORIGINAL DRAWING
DRAWING M-1
SHEET 11 OF 15

File: \\mbc\public\shared\project files\interconnect upgrades\progress submittals\Bid Set\Drawings\CAD\Mechanical\MD-1.dwg



CONCRETE PIPE SUPPORT

1
-
DETAIL
SCALE: NTS



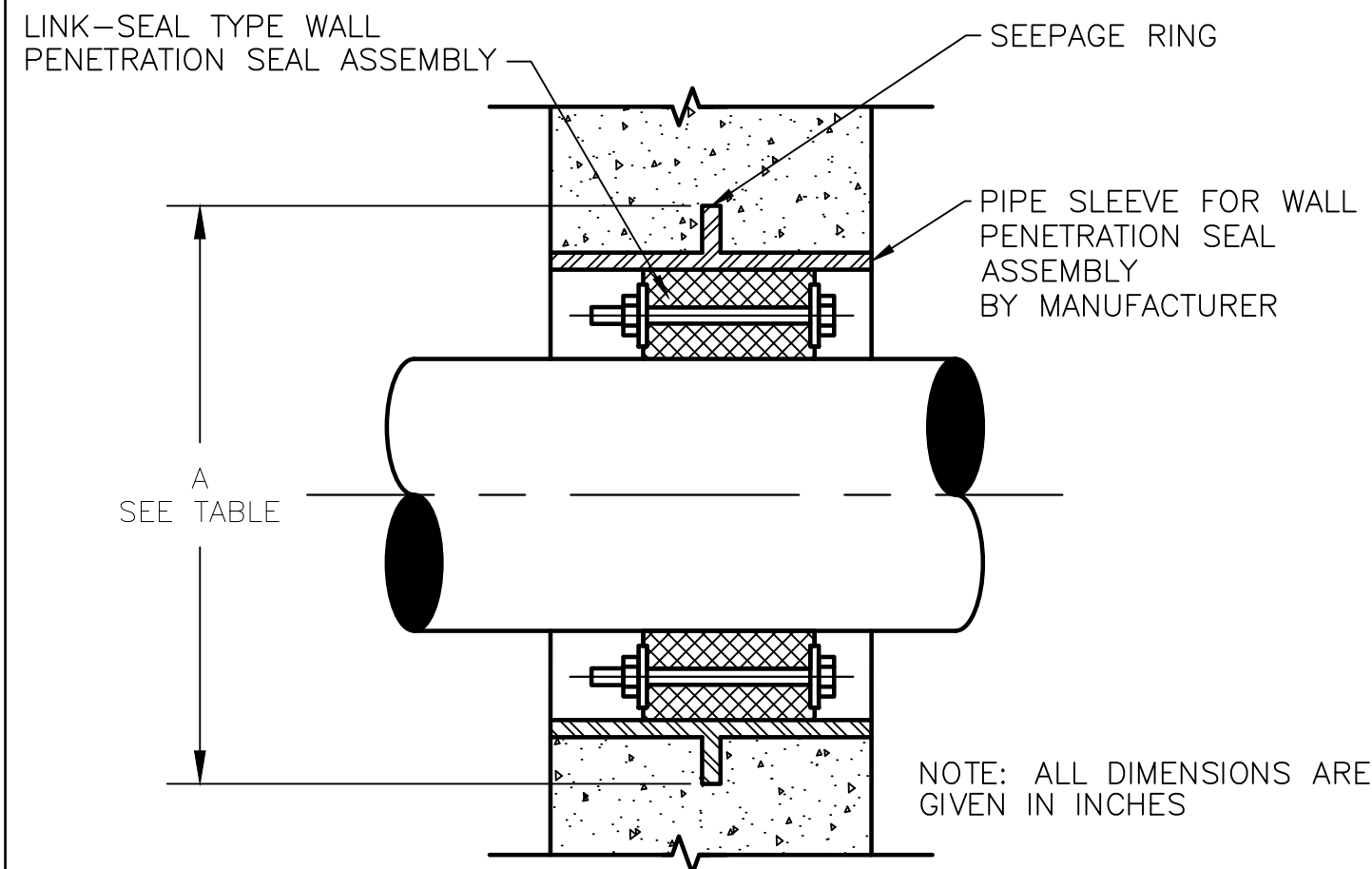
MINIMUM BLOCKING DIMENSIONS (INCHES)			
PIPE SIZE	90° BEND		
	W	H	L
4-INCH	6	12	14
6-INCH	8	14	26
8-INCH	10	16	40
10-INCH	12	24	42
12-INCH	14	36	46

CORRECTION FACTORS	
SOIL TYPE	MULTIPLY "L" AND "H" BY
SOFT CLAY	1.73
SILT	1.41
SANDY SILT	1.00
SAND	0.87
SANDY CLAY	0.71

- NOTES:
- DEPTH "W" MAY BE GREATER THAN SPECIFIED TO ALLOW WORKING SPACE.
 - BLOCKING MUST BE PLACED AGAINST UNDISTURBED EARTH. WHERE THIS IS NOT POSSIBLE, THE FILL BETWEEN THE BEARING SURFACE AND THE UNDISTURBED SOIL MUST BE COMPACTED TO AT LEAST 90% STANDARD PROCTOR DENSITY.
 - PROVIDE CONCRETE IN ACCORDANCE WITH STANDARD SPECIFICATION 03300—CAST IN PLACE CONCRETE.
 - BLOCKING DIMENSIONS ARE SHOWN BASED ON 3000 PSI SOIL BEARING STRENGTH AND 125 PSI INTERNAL WATER PRESSURE. FOR OTHER SOIL CONDITIONS MULTIPLY DIMENSIONS "L" AND "H" BY THE APPROPRIATE CORRECTION FACTOR.

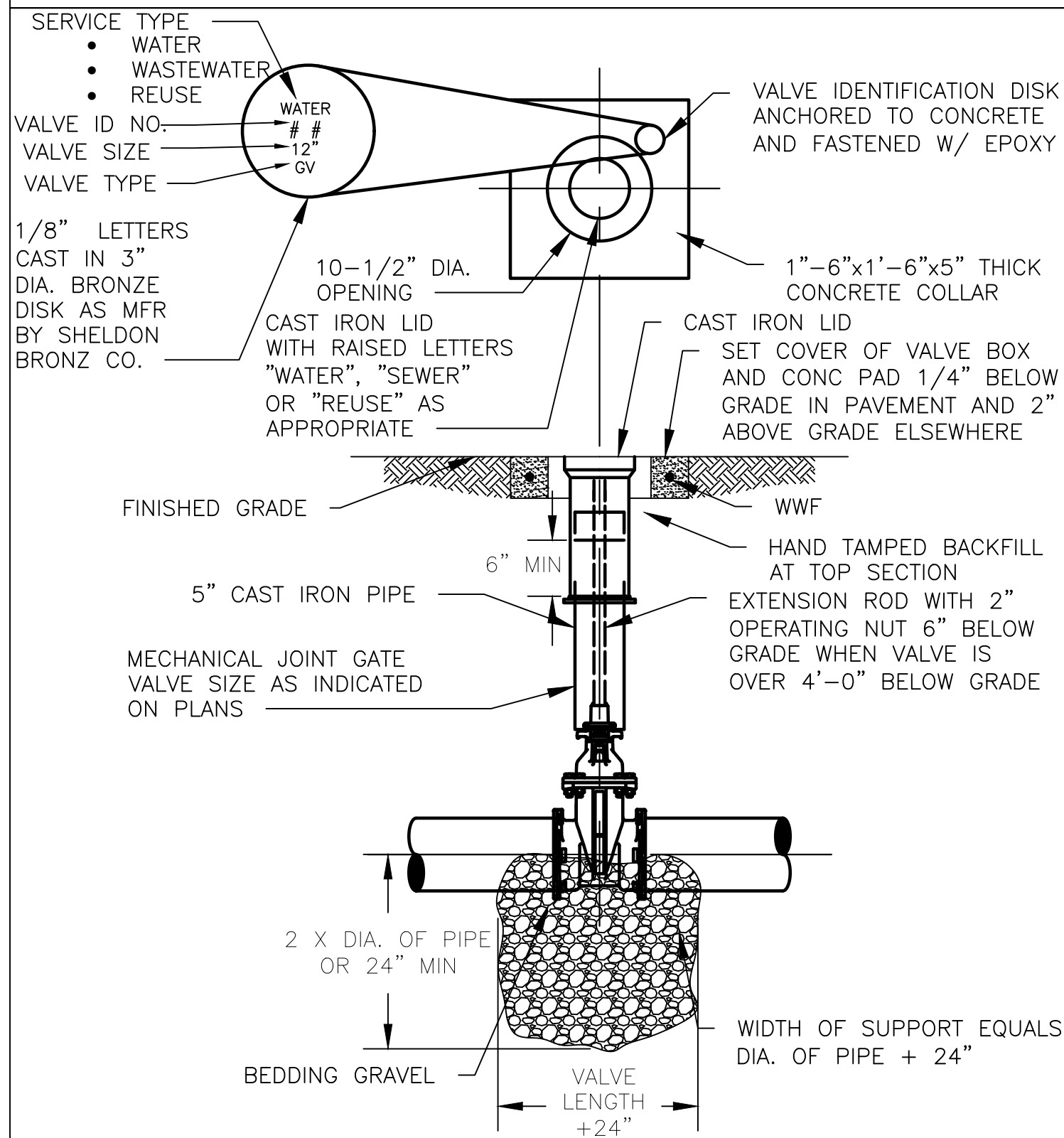
THRUST BLOCK

2
-
DETAIL
SCALE: NTS



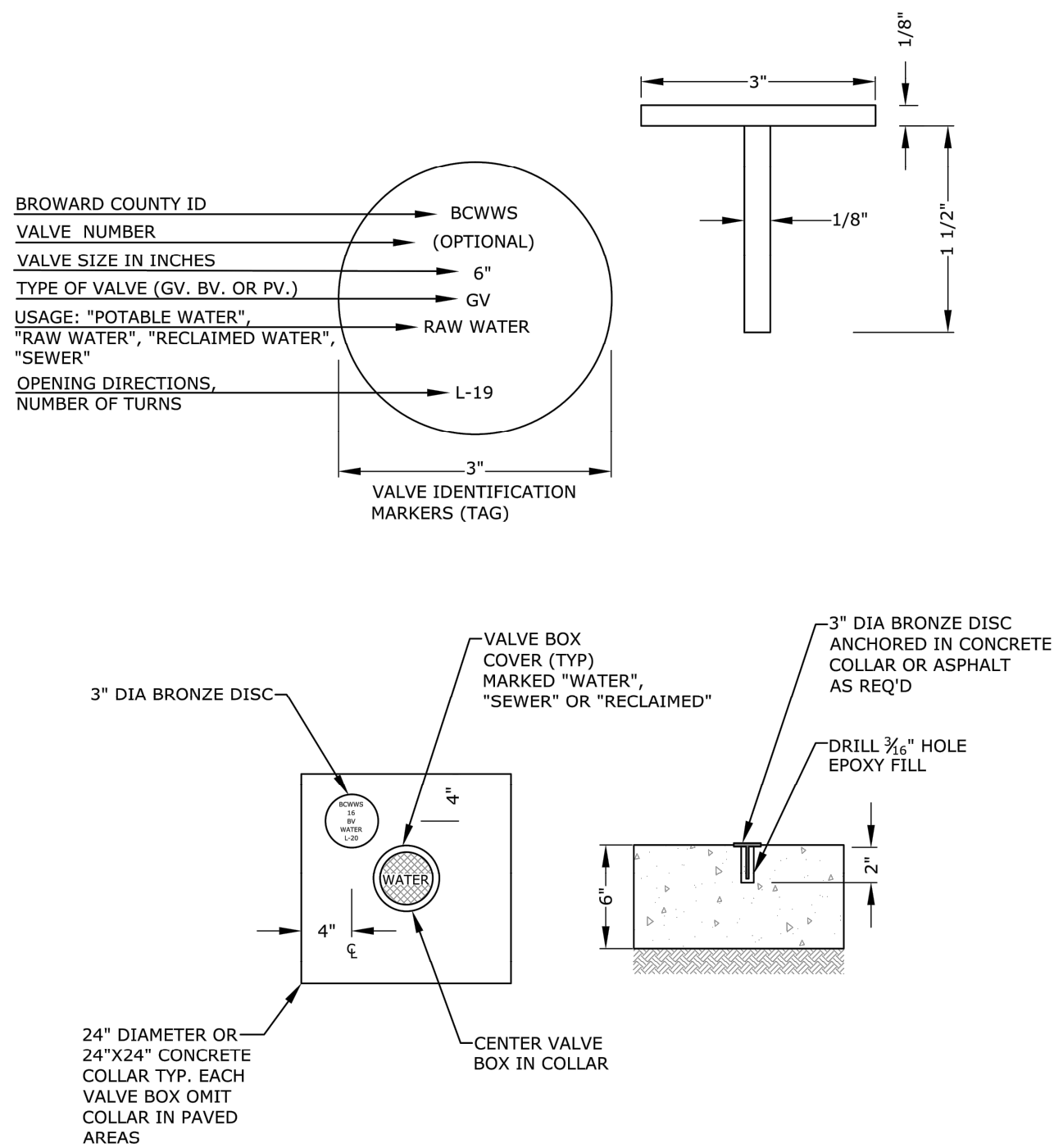
PENETRATION SEAL: LINK SEAL

3
-
DETAIL
SCALE: NTS



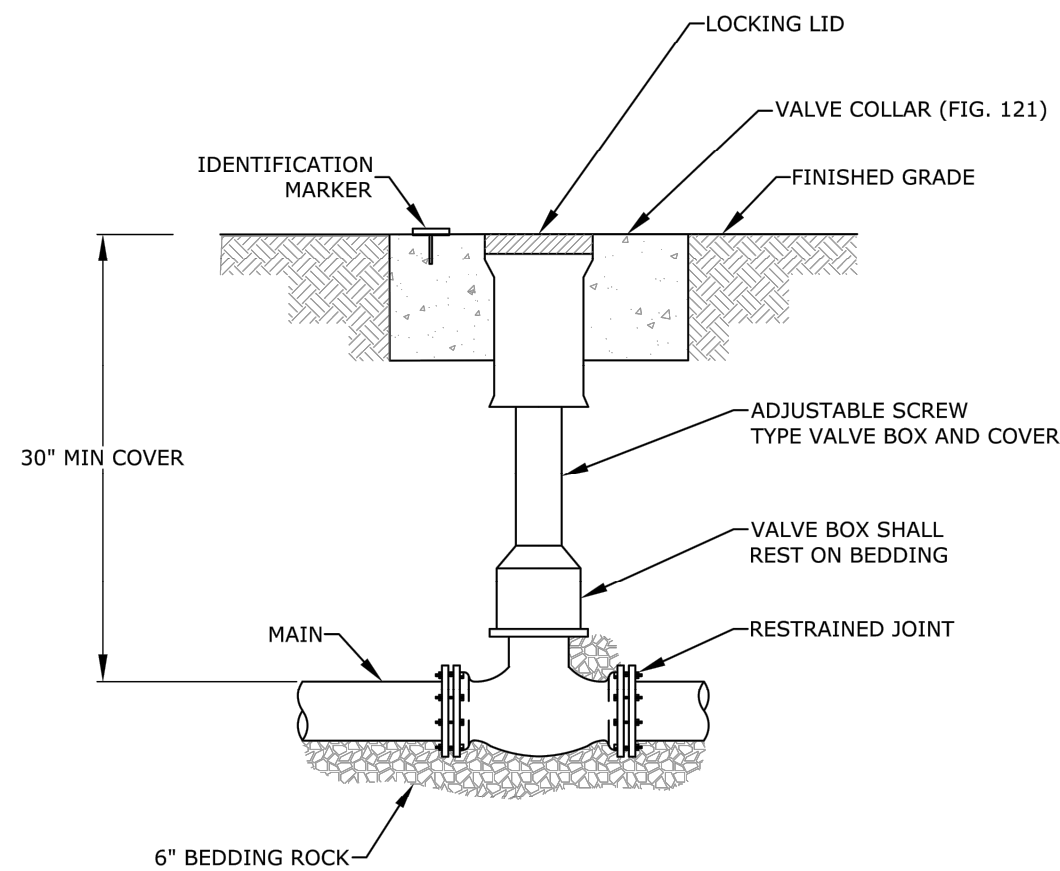
BURIED GATE VALVE

5
-
DETAIL
SCALE: NTS



VALVE COLLAR AND IDENTIFICATION MARKER (BCWWS FIGURE 121)

6
-
DETAIL
SCALE: NTS



VALVE BOX (BCWWS FIGURE 123)

7
-
DETAIL
SCALE: NTS

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City of Pompano Beach
WATER SYSTEM
INTERCONNECT UPGRADES

MISCELLANEOUS MECHANICAL
DETAILS

PROJECT 11-020
SCALE AS NOTED
BAR IS 1" ON
ORIGINAL DRAWING
DRAWING MD-1
SHEET 15 OF 15