CONSTRUCTION DRAWINGS GLENWOOD AND CRYSTAL LAKE WATER TREATMENT PLANT CHLORINE SYSTEM IMPROVEMENTS

PREPARED FOR

City of Avon Park NOVEMBER, 2023

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PROJECT VICINITY MAP



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(A)ARV	(AUTOMATIC) AIR RELEASE VALVE	CPP	CONCRETE PRESSURE PIPE	GR	GRADE	NTS N T S	NOT TO SCALE	SF	SQUARE FOOT
A/C	AIR CONDITIONING	CPVC	CHLORINATED POLYVINYL CHLORIDE	GS	GALVANIZED STEEL	NW	NORTHWEST	S.I.	SQUARE INCH
A/VV	AIR/VACUUM AIR VALVE	CS	CHLORINE SOLUTION	GSP	GALVANIZED STEEL PIPE	O2	OXYGEN	S.O.	SIDE OPERATED
AAV	AUTOMATIC AIR VENT	CV	CHECK VALVE	GSR	GROUND STORAGE RESERVOIR	O&M	OPERATION AND MAINTENANCE	S.STL	STAINLESS STEEL
AB-xx	AUGER BORING (e.g. AB-1)	CW	DOMESTIC COLD WATER	GST	GROUND STORAGE TANK	O.C.	ON CENTERS	S.Y.	SQUARE YARD
ABAN	ABANDON(ED)	CWT	CLARIFIED WATER TRANSFER	GV	GATE VALVE	O.C.E.W.	ON CENTERS EACH WAY	SAMP	SAMPLE LINE
ABFV	ACTUATED BUTTERFLY VALVE	CYL	CYLINDER	HB	HOSE BIBB	O/E	OR EQUAL	SAN	SANITARY
ABRSV	ABRASIVE	D	DRAIN	HD	HEAVY DUTY	0/0	OUTSIDE TO OUTSIDE	SB-xx	SOIL BORING (e.g., SB-1)
ABS	ACRYLONITRILE BUTADIENE	DEG	DEGREE	HDD	HORIZONTAL DIRECTIONAL DRILL	OD	OUTSIDE DIAMETER	SCH	SCHEDULE
		DEMO	DEMOLITION	HDPE	HIGH-DENSITY POLYETHYLENE	OF		SCV	SILENT CHECK VALVE
ACCV	ASPHALT-COATED CORRUGATED METAL PIPE	DF		HF6	HYDROGEN HEXAFLUORIDE	OFF	OFFSET	SD	STORM DRAIN
ACP	AIR CUSHION CHECK VALVE	DI/DIP		HFA		OH	OVERHEAD	SDR	STANDARD DIMENSION RATIO
ADH	ADHESIVE			HFCA	ADAPTER			SE	SOUTHEAST
ADJ	ADJUSTABLE			HORIZ	HORIZONTAI			SEC	
AFF	ABOVE FINISHED FLOOR	DIR	DIRECTION	HP	HORSEPOWER	OPT		SE	SOUARE FOOT or FEET
AFG	ABOVE FINISHED GRADE	DISCH	DISCHARGE	HPA	HIGH PRESSURE AIR	OS&Y	OUTSIDE STEM & YOKE	SHT	SHEET(ED)(ING)
AFS	ABOVE FINISHED SLAB	DJ	DISMANTLING JOINT	HR	HOUR	OVF	OVERFLOW	SI	SCALE INHIBITOR
AG	AMMONIA GAS	DMH	DROP MANHOLE	HSP	HIGH SERVICE PUMP	P/L	PROPERTY LINE	SIM	SIMILAR
AIR	AIR PIPE	DN	DOWN	HT	HEIGHT	PA	PROCESS AIR	SL	SLUDGE
AL	ALUMINUM	DR	DIMENSION RATIO	HVA	HYDRAULIC VALVE ACTUATOR	PBV	PLASTIC BALL VALVE	SLV	SLEEVE
ALT	ALTERNATE	DV	DIAPHRAGM VALVE	HVAC	HEATING, VENTILATION, AND AIR	PC	POINT OF CURVE	SM	SHEET METAL
AMM		DW	DISINFECTED WATER	1.11.47		PE	PLAIN END	SOL	SOLUTION
		DWG	DRAWING			PEP	POLYETHYLENE PIPE	SP	SOIL PIPE
AFFROA		DWV	DRAIN, WASTE, AND VENT			PERM	PERMEATE	SPEC(S)	SPECIFICATION(S)
ASSY	ASSEMBLY	E	EAST(ING)	חו		PG	PRESSURE GAUGE	SPT-xx	STANDARD PENETRATION TEST
B-xx	BORING (e.g. B-1)	E.F.		IMI R		PGL	PROPOSED GRADE LINE	50	BORING (e.g. SPT-T)
B/W	BOTH WAYS	E.W.		IN	INCH(FS)	PJ	PUSH-ON JOINT	50	
BCV	BALL CHECK VALVE	EA	EACH	INF	INFLUENT	PLC		33 88E	
BF	BLIND FLANGE	ECC		INV	INVERT	PM	PROCESS MECHANICAL	ST	SAMPLE TAP
BFP	BACKFLOW PREVENTER	EFF		IP	IRON PIPE	PNV		STA	STATION
BFV	BUTTERFLY VALVE	EGO	ELEVATED GEAR OPERATOR	IPS	INTERNATIONAL PIPE STANDARD	POB	POINT OF BEGINNING	STD	STANDARD
BGO	BURIED GEAR OPERATOR		ELEVATION	IR	INTERNAL RECYCLE	POI	POINT OF INTERSECTION	STL	STEEL
BI	BLACK IRON	EL(EV)	FLASTOMERIC	IW	IRRIGATION WATER	POJ	PUSH-ON JOINT	STORM	STORMWATER
BIP	BLACK IRON PIPE	ELL	ELBOW	JB	JUNCTION BOX	POL	POLYMER	STR	STRAIGHT
BITUM	BITUMINOUS or BITUMASTIC	EMER	EMERGENCY	JT	JOINT	POT	POINT OF TANGENCY	SUP	SUPERNATANT
BLDG	BUILDING	EOP	EDGE OF PAVEMENT	KGV	KNIFE GATE VALVE	PPD	POUNDS PER DAY	SV	SOLENOID VALVE
BM	BENCH MARK	EPDM	ETHYLENE PROPYLENE DIENE	L,LT	LEFT	PPM	PARTS PER MILLION	SVC	SERVICE
BOC	BACK OF CURB		MONOMER	LAB	LABORATORY	PREFAB	PREFABRICATED	SVW	SERVICE WATER
BOS	BOTTOM OF SLAB	EQUIP	EQUIPMENT	LAM		PRES	PRESSURE	SW	SOUTHWEST
BOI	BOITOM	EST	ESTIMATE(D)			PROP	PROPOSED	SWD	SIDEWATER DEPTH
BSP		EVA	ELECTRIC VALVE ACTUATOR			PRV	PRESSURE REDUCING VALVE	SYM	SYMBOL
		EX(IST)	EXISTING			PRW	PROCESS WATER	SYMM	SYMMETRICAL
BW/		EXP	EXPANSION	LF I HNPE		PSF	POUNDS PER SQUARE FOOT	T&B	
BWS	BACKWASH SUPPLY				POLYETHYLENE	PSI DV		T.U.C.	
BWW	BACKWASH WASTE			LS	LIME SLURRY	PVC		Т.О.З. те	
C&G	CURB & GUTTER	FAD		LSS	LIME STABILIZED SLUDGE			T.S. T.V	
C.F.	CUBIC FOOT	FCA	FLANGED COUPLING ADAPTER	LWL	LOW WATER LEVEL	100-0	CONTAINED)	T.V. T/B	
C.I.	CUBIC INCH	FCV	FLOW CONTROL VALVE	Μ	MECHANICAL JOINT	PVDF	POLYVINYLIDENE FLUORIDE (KYNAR)	T/C	TOP OF CURB
C.Y.	CUBIC YARD	FD	FLOOR DRAIN	MAINT	MAINTAIN OR MAINTENANCE	PVMT	PAVEMENT	T/S	TOE OF SLOPE
C/C	CENTER TO CENTER	FE	FILTER(ED) EFFLUENT	MAN	MANUAL(LY)	PW	POTABLE WATER	TAN	TANGENT
CA	COMPRESSED AIR	FEED	ROFEED	MAX	MAXIMUM	Q	FLOW	TB-xx	TEST BORING-xx (e.g. TB-1)
CaCL2	CALCIUM CHLORIDE	FF	FINISHED FLOOR	MCC	MOTOR CONTROL CENTER	QTY	QUANTITY	ТВМ	TEMPORARY BENCHMARK
CAP	CAPACITY	FH	FIRE HYDRANT	ME(S)	MITERED END (SECTION)	R,RT	RIGHT	TDH	TOTAL DYNAMIC HEAD
CATV	CABLE TELEVISION	FIG	FIGURE	MECH		R/W, R.O.W.	RIGHT OF WAY	TEL	TELEPHONE
CAV	COMBINATION AIR VALVE	FIN	FINISH(ED)			RAD., R.	RADIUS	TEMP	TEMPORARY
CBP		FL	FLUORIDE			RAS	RETURN ACTIVATED SLUDGE	TH	TEST HOLE
		FLEX	FLEXIBLE	MGD				THD	THREAD(ED)
CEM		FLG	FLANGE(D)	MH	MANHOLE			THK	
CES				MI	MILE(S)	RCPA		IJ TO	
CI	CAST IRON			MIN	MINIMÚM	RCW RW			
CIN	CORROSION INHIBITOR	FO(L)(C) ED		MISC	MISCELLANEOUS	REBAR	REINFORCING STEEL		
CIPF	CLEAN-IN-PLACE FILL	FPM	FEET PER MINI ITE	ML	MIXED LIQUOR	REC	RECIRCULATION	TYP	TYPICAL
CIPR-S	CLEAN-IN-PLACE RETURN or SUPPLY	FPS	FEET PER SECOND	MPH	MILES PER HOUR		(DISCHARGE/SUCTION)	UD	UNDERDRAIN
CISP	CAST IRON SOIL PIPE	FRP	FIBERGLASS REINFORCED PLASTIC	MRPP	METAL REINFORCED PLASTIC PIPE	RED	REDUCER	UF	ULTRAFILTRATION
CL	CENTER LINE	FT	FOOT OR FEET	MTD	MOUNTED	REEW	REUSE EFFLUENT WATER	UG	UNDERGROUND
CL2	CHLORINE GAS	FV	FOOT VALVE	MV	MOTORIZED VALVE	REF	REFERENCE	UGE	UNDERGROUND ELECTRIC
CLF	CHAIN LINK FENCE	FW	FINISHED WATER	MW	MANWAY	REINF	REINFORCE(D)(ING)(MENT)	UON	UNLESS OTHERWISE NOTED
CLN	CLEANING	G.O.	GEAR OPERATED	MWL	MEAN WATER LEVEL	REJ	RO REJECT, REJECT	UTC	UNDERGROUND TELEPHONE CABLE
CLR	CLEAR(ANCE)	GA	GAUGE	N	NORTH(ING)	REQ'D	REQUIRED	UTIL	UTILITY
CMP	CORRUGATED METAL PIPE	GAL	GALLON(S)	N.C.	NORMALLY CLOSED	REW		UV	ULTRAVIOLET
CMPA		GALV	GALVANIZED	N.U. N/A		KJ DM I		V	VENT
		GBW	GAC BACKWASH				NESTIMINED WEUTANIUAL JUINT RANGE	VAC	VACUUM
002		GCV	GLOBE CHECK VALVE	NaOU Na∩⊔				VAR	VARIES
		GE	GROOVED END	NF	NORTHFAST	ROC		VB	VALVE BOX
		GEN		NF		RPM	REVOLUTIONS PER MINITE	VC	
		GIP		NIC. N.I.C	NOT IN CONTRACT	RPZBP	REDUCED PRESSURE 70NF		
CONT	CONTINUATION	GND		NO., #	NUMBER		BACKFLOW PREVENTER	VEL VEDT	
COP	COPPER PIPE	טאט כסח		NOM	NOMINAL	RR	RAILROAD		
CP	CONCRETE PIPE	GPH	GALLONS PER HOUR	NPT	NATIONAL PIPE TAPER	RW	RAW SEWAGE		
CPA	CONCRETE PIPE ARCH	GPM	GALLONS PER MINUTE	NPW	NON-POTABLE WATER	RWW	RAW WASTEWATER	VTR	
CPLG	COUPLING	GPS	GALLONS PER SECOND	NSFC	NOT SHOWN FOR CLARITY	S	SOUTH	W	WEST

W.L. W.P. W/ WITH W/O WAS WCO WF WH WM WPR WS(P) WT WEIGHT WTF WTP WW WWF WWM WWTF WWTP XFER XLHDPE YD YARD(S) ΥH YR

> NORTH - NOTE DETAIL Α M-2 L DRAWING WHERE

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GENERAL NOTES

		-	
1.	THESE PLANS ARE SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE EXISTING CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION NECESSARY TO DETERMINE THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED.	1.	USE OF WILL BE SHALL E CERTIFI BOARD
2.	LOCATION, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) AFFECTING HIS WORK.	2.	THIS SU MAKES PERTAII OTHER
3.	THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEERS CLARIFICATION BEFORE COMMENCING.	3.	ELEVAT (NAVD88 PUBLISH SUBJEC
4.	THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, STORM DRAINS, SEWERS, UTILITIES, AND OTHER FACILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR ANY DAMAGES DUE TO HIS CONSTRUCTION.	5.	PANEL 1
5.	WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE JOINT DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURERS' MAXIMUM RECOMMENDED DEFLECTION.	R	EST
6.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING DRAINAGE SYSTEM WITHIN THE LIMITS OF THE PROJECT AREA FOR THE DURATION OF THE PROJECT.	1.	ALL RES EXISTIN
7.	THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD DRAWINGS AS OUTLINED IN THE SPECIFICATIONS. RED-LINE DRAWINGS SHALL BE CURRENT WITH EACH PAY APPLICATION SUBMITTED AND WILL BE CHECKED AS PART OF THE PAY APPLICATION REVIEW PROCESS. PAYMENT WILL NOT BE MADE TO CONTRACTOR WITHOUT APPROVED RED-LINE DRAWINGS. THE MOST CURRENT SET OF RED-LINE DRAWINGS SHALL ALSO BE BROUGHT TO EACH MONTHLY	2.	THE CO FENCES QUANTI ENGINE
8.	PROGRESS MEETING. FIELD CONDITIONS MAY NECESSITATE ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED PIPELINES TO AVOID CONFLICTS. NO ADDITIONAL PAYMENT SHALL BE MADE WITHOUT PRIOR	3.	ALL EXIS AND RE SHOWN
	APPROVAL OF THE OWNER AND THE OWNER'S ENGINEER.	4.	CONTRA CONDIT
9.	THE CONTRACTOR SHALL INCLUDE IN HIS BID:PIPING, RESTRAINTS, PLUGS, FITTINGS, LABOR, ETC. AS NECESSARY, BASED ON METHOD AND SEQUENCE OF CONSTRUCTION TO COMPLETE ALL WORK WHILE MAINTAINING THE EXISTING WASTEWATER TREATMENT PLANT OPERATIONS AT ALL TIMES.	5.	ALL DIS OTHER
10.	IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROPERLY DISPOSE OF ALL WASTEWATER, SLUDGE, AND GRIT WITHIN ALL PIPES/HEADWORKS TO BE DEMOLISHED, REMOVED, OR CONNECTED TO.	D	EMO
11.	ALL PROPOSED WORK SHALL BE COORDINATED WITH WASTEWATER TREATMENT PLANT PERSONNEL AT LEAST TWO WEEKS IN ADVANCE OF PROPOSED CONSTRUCTION.	1.	CONTRA
12.	THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF ALL PIPE	0	
	FABRICATION OR DELIVERY TO THE JOB SITE.	2.	
13.	CONNECTIONS TO EXISTING FACILITIES SHALL BE ACCOMPLISHED IN A NEAT WORKMANSHIP LIKE MANNER, WHEN FIELD CONDITIONS INDICATE ANY VARIANCE FROM DETAILED METHODS. THE CONTRACTOR SHALL PROVIDE COMPREHENSIVE AND DETAILED DRAWINGS FOR OWNER REVIEW AND APPROVAL PRIOR TO MAKING THE CONNECTIONS.		STREET OBSTRU FROM A
14.	UNLESS OTHERWISE INDICATED OR APPROVED, ALL BELOW GROUND DUCTILE IRON PIPE SHALL	4.	PROVID INDICAT
	HAVE PUSH-ON OR MECHANICAL JOINTS, AND ALL ABOVE GROUND DUCTILE IRON PIPE SHALL HAVE FLANGED JOINTS. ALL JOINTS SHALL BE FULLY RESTRAINED. CONTRACTOR TO FULLY RESTRAIN EXISTING PIPE AT TIE-IN LOCATIONS OF NEW PIPE IN ACCORDANCE WITH JOINT RESTRAINT TABLE.	5.	LOCATE ARE TO DEMOLI
15.	ALL PIPELINES SHALL HAVE A MINIMUM COVER OF 36" BELOW EXISTING GRADE UNLESS OTHERWISE NOTED OR DIRECTED.	6.	SHOULE DURING
16.	SANITARY SEWERS AND FORCEMAINS CROSSING OVER OR UNDER WATER MAINS SHALL BE LAID	7.	DEMOLI BE REM
	AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER OR FORCE MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10' BETWEEN ANY TWO JOINTS. AS AN ALTERNATIVE, THE SEWER OR FORCE MAIN MAY BE PLACED IN A WATERTIGHT	8.	PROTEC DAMAGI HAZARD
17.	CASING PIPE. WATER SHALL NOT BE PERMITTED IN BUILDING EXCAVATIONS OR TRENCHES DURING CONSTRUCTION. DEWATERING IS REQUIRED TO A MINIMUM OF 18" BELOW BOTTOM OF	9.	CONTRA FURTHE CONSTR
18.	THE CONTRACTOR SHALL NOT ALLOW ANY DISCHARGE OF WASTEWATER TO LANDS AND/OR	10.	CONTRA ADJACE
	ADJACENT WATER BODIES OR STORM DRAINS. ANY LEAKAGE MUST BE CONTAINED AND REMOVED BY THE CONTRACTOR TO THE PLANT DRAIN PUMP STATION AT THE WASTEWATER TREATMENT PLANT, CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ANY SPILLS TO FREE	11.	THE USI
19.	ALL BELOW-GRADE FITTINGS 4-INCHES AND GREATER IN DIAMETER SHALL BE MECHANICAL JOINT DUCTILE IRON AND COATED ON THE INSIDE WITH PROTECTO 401, A CERAMIC EPOXY LINING, AND A COAL TAR ENAMEL COATING ON THE OUTSIDE.	12.	CONTRA PREVEN WATERN
20.	ALL EXPOSED PIPING SHALL BE PAINTED WITH DESIGNATED COLORS ASSOCIATED WITH THEIR USAGE AS PROVIDED IN THE SPECIFICATIONS OR AS SELECTED BY OWNER.		MATERI ENTER
21.	CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES	13.	ALL DIS [.] IRRIGAT
	AND DITCHES DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL BE REQUIRED		

- CONSTRUCTION OF ANY COMPONENTS ASSOCIATED WITH THE PROJECT. SEDIMENT CONTROL INCLUDES SILT DAMS. TRAPS. EROSION PROTECTION, AND ANY OTHER APPURTENANCES NEEDED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS.
- CONTRACTOR SHALL PROVIDE PROTECTIVE MATTING, FUEL CONTAINMENT AND ALL OTHER 22. MATERIALS, EQUIPMENT AND LABOR TO PROTECT THE STAGING AREA DURING CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE THE STAGING AREA WITH THE OWNER. THERE MAY BE 23. MULTIPLE PROJECTS UNDER CONSTRUCTION AT THE FACILITY AND IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A SECURE AREA FOR THE STORAGE AND STAGING OF EQUIPMENT. INCLUDING BUT NOT LIMITED TO FENCING, GATES, AND ANY ADDITIONAL ITEMS THAT MAY BE NECESSARY TO SECURE THE AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS 24. OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY 25. ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
- THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH 26. OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. 27. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.
- 28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY.

- SURVEY NOTES
- SIMILAR MATTERS.
- HED ELEVATION = 122.80' (NAVD88).

ORATION AND MISCELLANEOUS NOTES

- FR
- I TO BE REMOVED ON CONSTRUCTION PLANS.
- TIONS.

ITION NOTES

- ITION ACTIVITIES. F OF SITE CLEARING IS SHOWN ON DRAWINGS.
- AUTHORITIES HAVING JURISDICTION. DE PROTECTION NECESSARY TO PREVENT DAMAGE TO EXISTING IMPROVEMENTS TED ON PLAN "EXISTING TO REMAIN."
- E EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES IN AREAS OF WORK IF UTILITIES REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING ITION OPERATION.
- 10VED."
- DS CREATED BY THE DEMOLITION OPERATION.
- ACTOR SHALL MAINTAIN STORMWATER MANAGEMENT SYSTEM TO INSURE NO DAMAGE TO ENT PROPERTIES OCCURS DURING 100-YEAR STORM EVENTS.
- SE OF EXPLOSIVES IS NOT PERMITTED.
- AND EXIT THE SITE.

- 15.
- 16. STAGING AREA.

THIS SURVEY FOR PURPOSES OTHER THAN INTENDED, WITHOUT WRITTEN VERIFICATION, E AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO THE SURVEYOR. NOTHING HEREIN BE CONSTRUED TO GIVE ANY RIGHTS OR BENEFITS TO ANYONE OTHER THAN THOSE IED TO. THIS SURVEY MEETS THE "STANDARDS OF PRACTICE" SET FORTH BY THE FLORIDA OF LAND SURVEYORS IN CHAPTER 5J-17 FLORIDA ADMINISTRATIVE CODE.

JRVEY WAS PREPARED WITHOUT AN ABSTRACT OF TITLE; THEREFORE THE UNDERSIGNED NO GUARANTEES OR REPRESENTATIONS REGARDING INFORMATION SHOWN HEREON NING TO EASEMENTS, RIGHTS-OF-WAY, SETBACK LINES, AGREEMENTS, RESERVATIONS, OR

FIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 8), NATIONAL GEODETIC SURVEY BENCHMARK "25512 C", LOCATED IN AVON PARK, FLORIDA,

CT PROPERTY APPEARS TO LIE IN FLOOD ZONE "X" ACCORDING TO F.I.R.M. COMMUNITY 12055C0117C, DATED 11/18/2015.

RVEY INFORMATION WAS COLLECTED ON MAY 15, 2020.

STORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO IG LINES AND GRADES UNLESS OTHERWISE NOTED.

INTRACTOR SHALL REPLACE ALL EXISTING PAVING, STABILIZED EARTH, CURBS, SIDEWALKS, S, LANDSCAPING, AND OTHER IMPROVEMENTS WITH THE SAME OR BETTER TYPE AND ITY OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE

STING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER UNLESS

ACTOR SHALL RESTORE ALL IRRIGATION SYSTEM COMPONENTS TO PRE-CONSTRUCTION

TURBED GRASSED AREAS SHALL BE RESTORED WITH SOD IN LIKE KIND UNLESS WISE DIRECTED BY OWNER. CONTRACTOR SHALL ROLL ALL SODDED AREAS.

ACTOR SHALL SUBMIT DEMOLITION SCHEDULE TO OWNER PRIOR TO PROCEEDING WITH

CT SITE DEMOLITION OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS. TS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR UCT STREETS, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION

D UNCHARTED, OR INCORRECTLY CHARTED, PIPING OR OTHER UTILITIES BE ENCOUNTERED G DEMOLITION, CONSULT PROJECT ENGINEER AND UTILITY OWNER FOR IMMEDIATE ACTION.

ISH AND COMPLETELY REMOVE FROM SITE MATERIAL INDICATED ON PLAN OR NOTES "TO

CT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM E CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER

ACTOR SHALL RESTORE ALL DISTURBED AREAS TO EXISTING CONDITIONS OR BETTER ERMORE CONTRACTOR SHALL PROVIDE TO ENGINEER PHOTOGRAPH OF PRE-RUCTION CONDITIONS AND POST-CONSTRUCTION CONDITIONS AS NOTED ON PLANS.

ACTOR IS TO PROVIDE APPROVED EROSION CONTROL/SEDIMENTATION BARRIERS TO NT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WAYS, IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE IAL AS NEEDED ON THE GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO

TURBED AREAS OUTSIDE THE LIMITS OF DEMOLITION SHALL BE RE-LANDSCAPED AND TION SYSTEMS REPAIRED TO PREVIOUS WORKING CONDITIONS.

ACTOR IS TO OBTAIN PROPER PERMITS PRIOR TO DEMOLITION OF EXISTING STRUCTURES.

CONTRACTOR TO INSTALL SAFETY FENCE AND PROPERLY SIGN/MARK AROUND WORK AND STAGING AREA TO PREVENT PEDESTRIAN TRAFFIC FROM ENTERING.

CONTRACTOR SHALL PROVIDE ADEQUATE MAINTENANCE OF TRAFFIC AROUND WORK AND

PAVING, GRADING AND DRAINAGE NOTES

- ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN CITY'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR CITY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR CITY REGULATIONS. WHICHEVER IS MOST RESTRICTIVE OF THE TWO.
- THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE 2. WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
- THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
- IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED 4 PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302, FLORIDA ADMINISTRATIVE CODE.
- SOD. WHERE CALLED FOR. MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 7 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.

UTILITY NOTES

- THE CONTRACTOR SHALL CONSTRUCT UTILITY LINES, FITTINGS, VALVES, AND ASSOCIATED APPURTENANCES AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING. SHALL BE DONE IN A WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- UNDERGROUND LINES SHALL BE SURVEYED BY A STATE OF FLORIDA PROFESSIONAL LAND 4. SURVEYOR BEFORE BACK FILLING.

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		GENERAL NOTES			
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60% DESIGN PLANS

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	City of Avon Park			WWW.KIMLEY-HORN.COM REGISTRY N. 35106				
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60% DESIGN PLANS

NOTE: LOCATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION.

— GST INFLUENT VALVE AND INJECTION VAULT

AIR CONDITIONING CONDENSER AND CONCRETE PAD

APPROX. LOCATION OF UG CHLORINE PIPE. — CONTRACTOR TO FIELD VERIFY SIZE AND LOCATION PRIOR TO CONSTRUCTION. RELOCATE EMERGENCY SHOWER AND RINSE STATION - DEMO AND REMOVE CHLORINE STORAGE AND CONTAINMENT AREA NOTE: CONTRACTOR TO SUBMIT A CONSTRUCTION PHASING PLAN TO EOR AND CITY FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. CONTRACTOR TO PROVIDE TEMPORARY SODIUM HYPOCHLORITE SYSTEM PRIOR TO DEMOLITION OF THE EXISTING SYSTEM AND UNTIL CLEARANCE OF NEW SYSTEM.

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	WATER TREATMENT PLANT				City of Avon Park
	GLENWOOD -	EXISTING	CONDITIONS AND		

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60% DESIGN PLANS

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60% DESIGN PLANS

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	BLUE PLANET TRIPLEX METERING SKID	GRAPHIC 0
4D	ELEVATION	
M04	3/4" = 1'-0"	0

	Revisions By Date
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SUPPORT PIPING AS NEEDED. (TYP.)	Kimley » Horn © 2023 KIMLEY-HORN AND ASSOCIATES, INC. 109 South Kentucky Avenue, Lakeland, FI 33801 WWW.KIMLEY-HORN.COM REGISTRY N 35106
CONNECT TO EXISTING CHLORINE PRE-INJECTION PIPE	LICENSED PROFESSIONAL: Jamison Tondreault FL LICENSE NUMBER 00000 DATE: xx/xx/xx
	KHA PROJECT 046464021 DATE DATE NOVEMBER, 2023 SCALE: AS SHOWN DESIGNED BY: KSW DRAWN BY: KSW CHECKED BY: JRT
	GLENWOOD AND CRYSTAL LAKE WATER TREATMENT PLANT CHLORINE SYSTEM IMPROVEMENTS PREPARED FOR City of Avon Park
	GLENWOOD - CHEMICAL STORAGE AND METERING SECTIONS
60% DESIGN PLANS	SHEET NUMBER

EXISTING PUMP ROOM CONTRACTOR TO CUT EXISTING PIPING, INSTALL PROPOSED 4" MAGMETER AND CONNECT TO EXISTING 4" DISCHARGE PIPING
 3
 NEW STATIC MIXER AND INJECTION QUILL
GRAPHIC SCALE IN INCHES CRYSTAL WTP - OVERALL PROPOSED SITE PLAN 3/8" = 1'-0" 0 2' 4' 0 3/4" 1-1/2" NORTH

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		GLENWOOD AND CRYSTAL LAKE WATER TREATMENT PLANT	CHLORINE SYSTEM IMPROVEMENTS	City of Avon Park	
		CRYSTAL LAKF	-PROPOSED SITE	PLAN	
60% DESIGN PLANS	$\Big)$	SHI		1BER 7	

