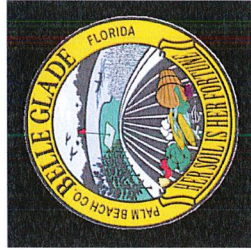


CONSTRUCTION PLANS FOR BELLE GLADE AIRPORT LIFT STATION

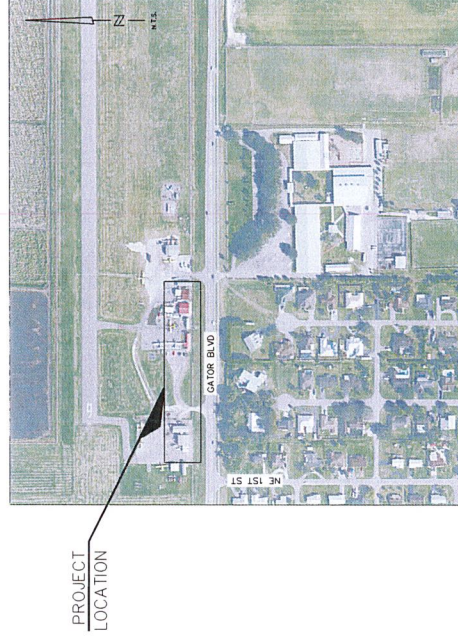
PREPARED FOR THE
CITY OF BELLE GLADE, FLORIDA
JANUARY 2021



TOWN OFFICIALS

MAYOR
VICE MAYOR
TREASURER
COMMISSIONER
CITY MANAGER
DIRECTOR OF PUBLIC WORKS

STEVE B. WILSON
MARY ROSS WILKERSON
MICHAEL C. MARTIN
JOHNNY BURROUGHS, JR.
LARRY UNDERWOOD
LOMAX HARRELLE
JOHNNY GOODEN



TOWNSHIP - 37
RANGE - 43
SECTION - 29

LOCATION MAP
N.T.S.

Sheet List Table

Sheet Number	Sheet Title
G-1	COVER SHEET
G-2	OVERALL AERIAL SITE PLAN
C-1	PARTIAL SITE PLAN - LIFT STATION AND WEST GRAVITY LATERAL
C-2	PARTIAL SITE PLAN - EAST GRAVITY LATERAL
C-3	LIFT STATION PLAN AND SECTION
C-4	CONSTRUCTION DETAILS
C-5	PBCWUD STANDARD WATER DETAILS
C-6	PBCWUD STANDARD SEWER DETAILS
C-7	PBCWUD STANDARD SEWER DETAILS
C-8	PBCWUD STANDARD SEWER DETAILS
E-1	ELECTRICAL NOTES & LEGENDS
E-2	ELECTRICAL SITE PLAN & ON-LINE DIAGRAM
E-3	LIFT STATION CONTROL PANEL DETAIL
E-4	CONTROL PANEL SCHEMATICS
E-5	ELECTRICAL DETAILS



WUD 20-579

No.	REVISIONS		DATE	BY
Kimley»Horn © 2021 KIMLEY-HORN AND ASSOCIATES, INC. 33411 1920 MEKAWAY WAY SUITE 200 WEST PALM BEACH, FL PH: 561.833.1100 FAX: 561.833.1175 WWW.KIMLEY-HORN.COM CA 00009886				
KHA PROJECT 1440B6023		DATE JAN. 2021		
SCALE: AS SHOWN		DESIGNED BY: DAC DRAWN BY: RAR CHECKED BY: JRL		
BELLE GLADE AIRPORT LIFT STATION PREPARED FOR CITY OF BELLE GLADE		FLORIDA DATE		
LICENSED PROFESSIONAL JASON R. LEE, P.E. FLORIDA LICENSE NUMBER 67472		COVER SHEET		
		SHEET NUMBER G-1		



AIRPORT SITE PLAN



GRAPHIC SCALE IN FEET

A horizontal graphic scale bar with tick marks at 0, 35, 70, and 140 feet. The bar is divided into four equal segments, each representing 35 feet. The first segment is white, the second is black, the third is white, and the fourth is black. The numbers 0, 35, 70, and 140 are printed below the bar.

**CALL 2 WORKING DAYS
BEFORE YOU DIG**

**IT'S THE LAW!
DIAL 811**

**Know what's below.
Call before you dig.**



WUD 20-579

SHEET NUMBER

G-2

OVERALL AERIAL SITE PLAN

LICENSED PROFESSIONAL

JASON R. LEE, P.E.
FLORIDA LICENSE NUMBER
67472

FLORIDA DATE:

**BELLE GLADE AIRPORT
LIFT STATION**
PREPARED FOR
CITY OF BELLE GLADE

BELLE GLADE

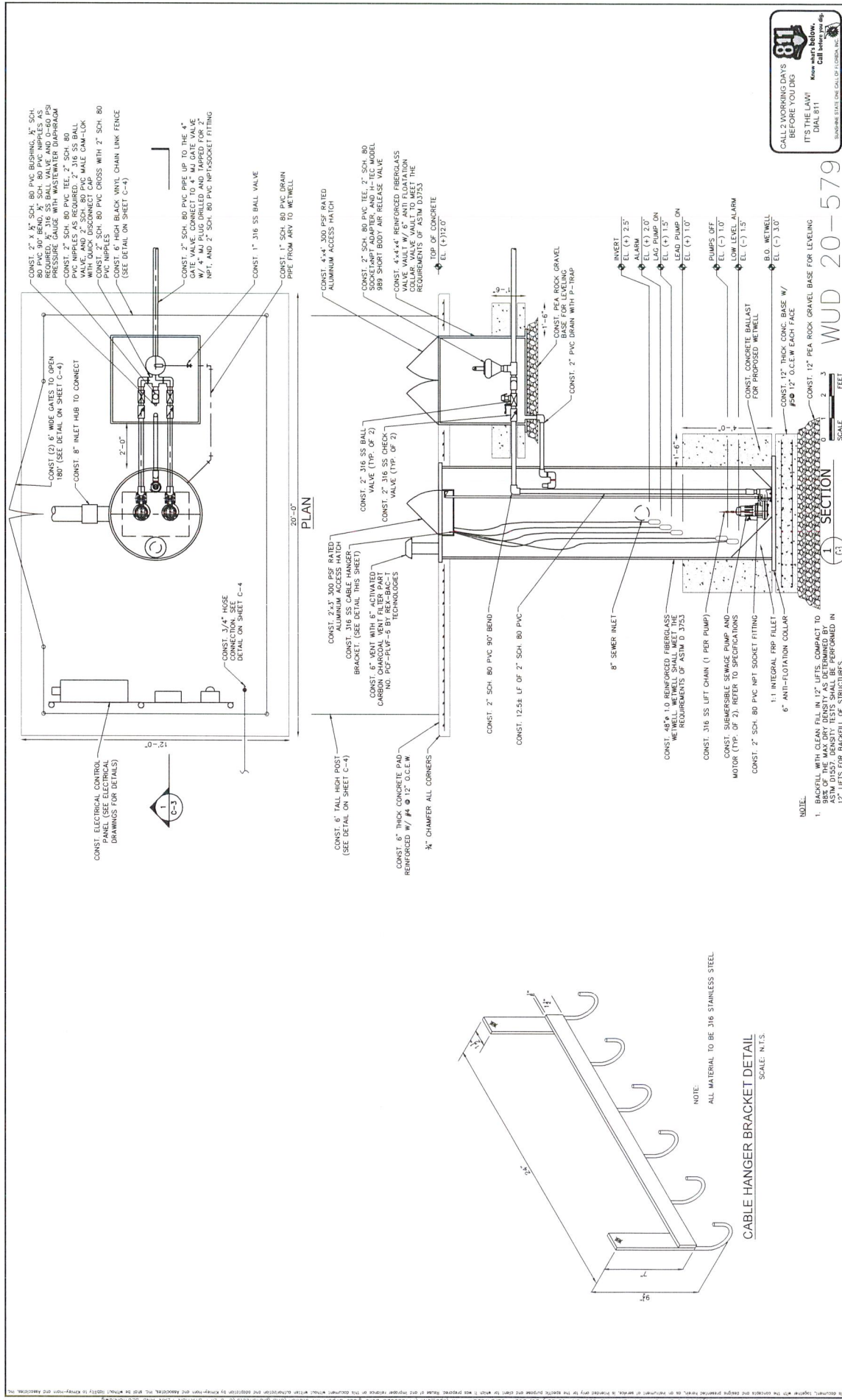
KHA PROJECT	SCALE AS SHOWN
144086023	DESIGNED BY DAC
DATE	DRAWN BY RAR
JAN. 2021	CHECKED BY JRL

Kimley»Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
1920 WEXIVA WAY SUITE 200, WEST PALM BEACH, FL 33411
PHONE: 561-845-0665 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM CA 00000696

[illegible]

This document, together with the contents and design presented herein, is an instrument of service. It is intended only for the specific purpose and client for which it was prepared. Release of and improper reliance on this document without written authorization and association by Kiewit-Turner and Associates, Inc. shall be without liability to Kiewit-Turner and Associates, Inc.



© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
1920 HEWING WAY, SUITE 200, FORT WORTH, TEXAS 76102
WWW.KIMLEY-HORN.COM CA 00000896

BELLE GLADE AIRPORT
LIFT STATION
PREPARED FOR
CITY OF BELLE GLADE

LIFT STATION PLAN AND SECTION

C-3

NOTES:

- BACKFILL WITH CLEAN FILL IN 12" LIFTS, COMPACT TO 95% OF MAXIMUM DENSITY. ALL LIFTS SHALL BE PERFORMED IN 12" LIFTS FOR BACKFILL OF STRUCTURES.

SECTION

PLAN

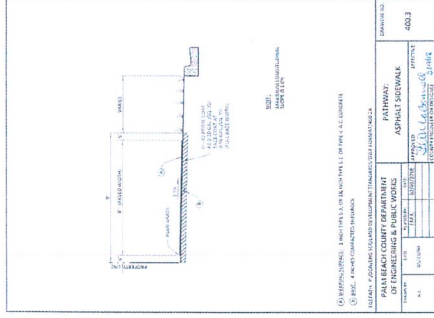
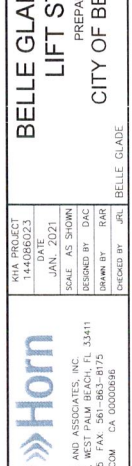
SCALE:

SECTION: 1" = 1'-0"

PLAN: 1" = 1'-0"

REVISIONS

NO.	REVISIONS	DATE	BY



PROJECT NO
042085001

BELLE GLADE AIRPORT
LIFT STATION
PREPARED FOR
CITY OF BELLE GLADE



PALM BEACH COUNTY
WATER UTILITIES DEPARTMENT
1500 N. MILITARY AVE.
WEST PALM BEACH, FL 33416
(561) 493-6000

DATE	REVISION / REMARKS
JUNE 2019	GENERAL REVISION

STD
DETAILS

PIPE
NUMBER
C-5

SCALE

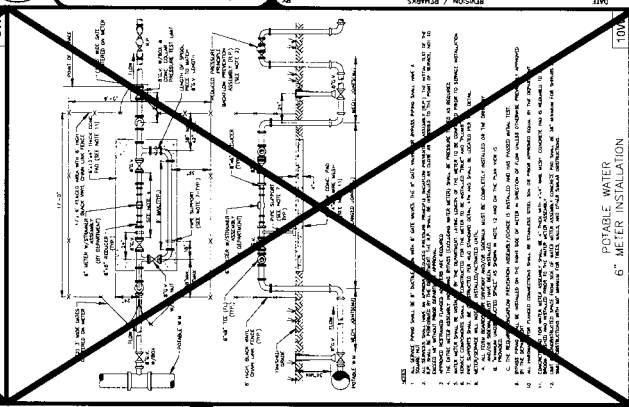
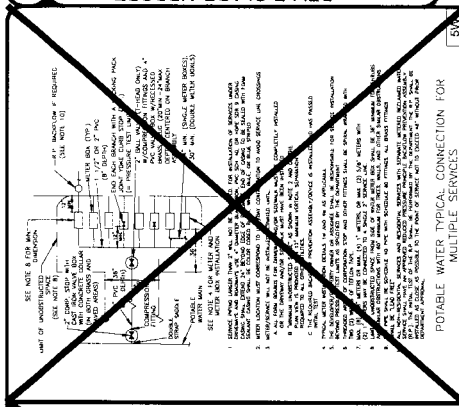
DATE
JUN 28, 2021

IT'S THE LAW
FOR ALL PROJECTS
IN PALM BEACH COUNTY
CALL 1-800-243-4444
OR VISIT WWW.PBC.GOV

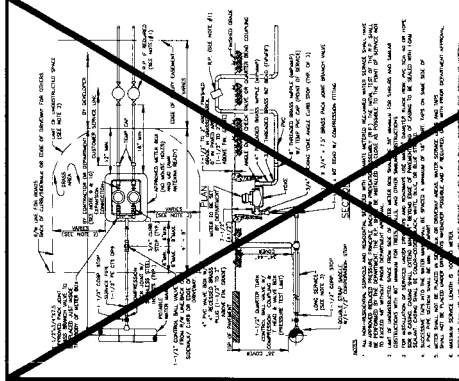
Kimley-Horn
INCORPORATED
1000 N. MILITARY AVE.
SUITE 200
WEST PALM BEACH, FL 33416
TEL: 561-832-1234
WWW.KIMLEY-HORN.COM

DESIGNED BY: WUD
DRAWN BY: M. BUCKNER
CHECKED BY: J. LAMBERT
APPROVED BY: WUD

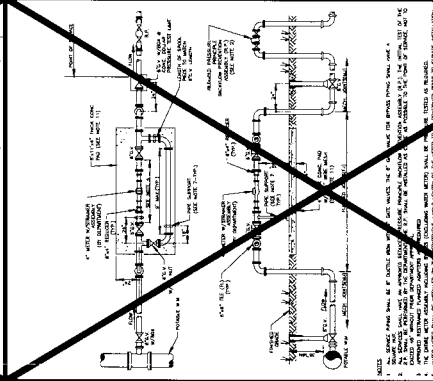
DATE: JUN 28, 2021
PROJECT: Belle Glade Airport Lift Station



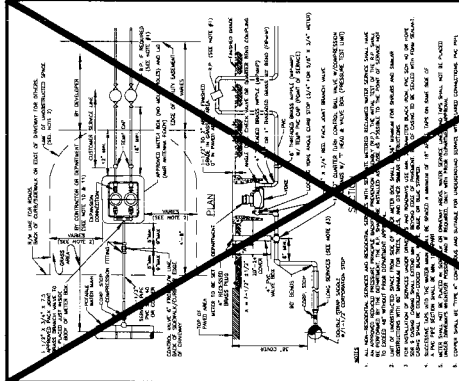
POTABLE WATER
6\"/>



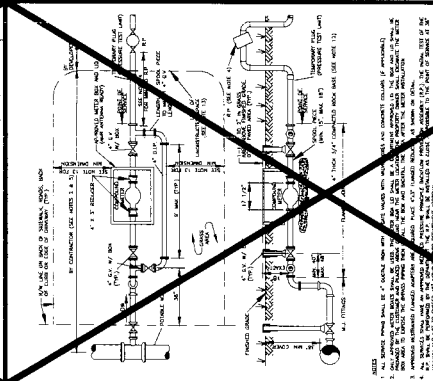
POTABLE WATER SERVICE DUAL 5/8\"/>



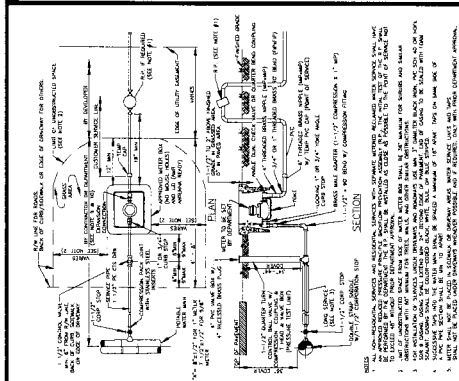
POTABLE WATER
4\"/>



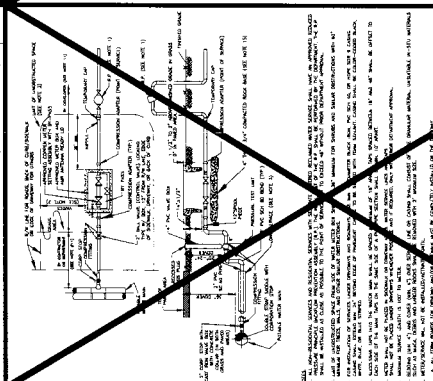
POTABLE WATER SERVICE DUAL 5/8\"/>



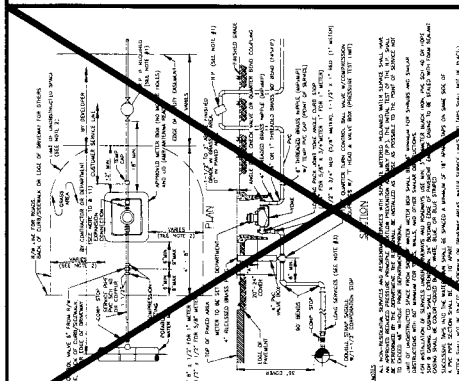
POTABLE WATER
3\"/>



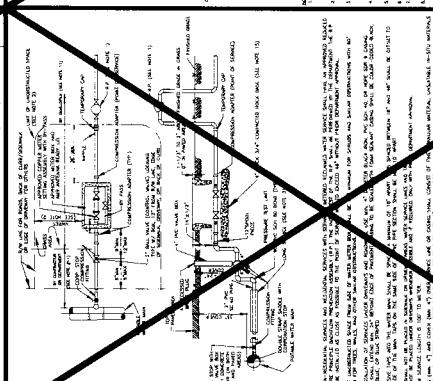
POTABLE WATER SERVICE SINGLE 5/8\"/>



POTABLE WATER
2\"/>



POTABLE WATER SERVICE SINGLE 5/8\"/>



POTABLE WATER
1 1/2\"/>

WUD 20-579

POTABLE WATER
4\"/>

POTABLE WATER
3\"/>

POTABLE WATER
2\"/>

POTABLE WATER
1 1/2\"/>

**BELLE GLADE AIRPORT
LIFT STATION
PREPARED FOR
CITY OF BELLE GLADE**



BEACH COUNTY
ILITIES DEPARTMENT
O. BOX 16097
M BEACH, FL 33416
661/493-6000

STD
DETAILS

SEAL

SHEET
NUMBER
C-6

Jan 20, 2021

IT'S THE LAW! 
CALL 48 HOURS BEFORE YOU GO!
1-800-432-4770
SOUNDING LIKE ONE OF THOSE, WE
WANT YOU TO BE ONE OF THEM.

Kimley»Horn
1815 W. 10th Ave., Suite 200
Tampa, FL 33606-1000
Tel: 813-289-1100 • Fax: 813-289-1101

DESIGNED BY: _____ WUD _____
DRAWN BY: _____ M. BUCKNER _____
CHECKED BY: _____ J. LAMBERT _____
APPROVED BY: _____ J. LAMBERT _____

Palm Beach County
Department
P.O. Box 1509
West Palm Beach, FL 33416-6093

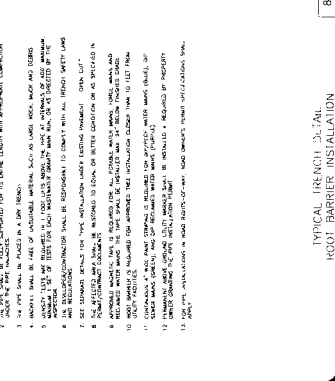
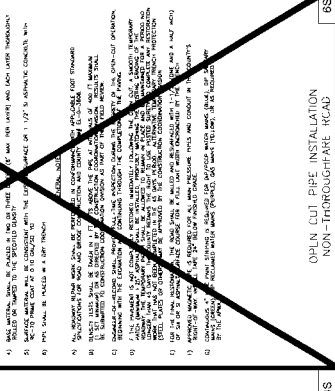
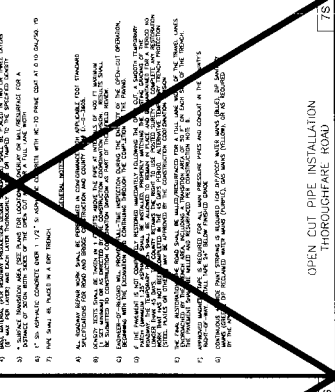
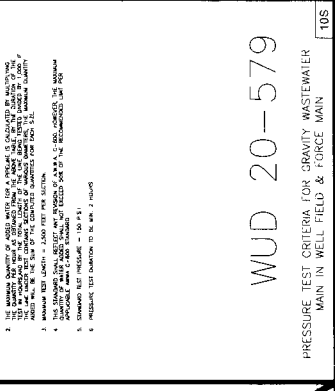
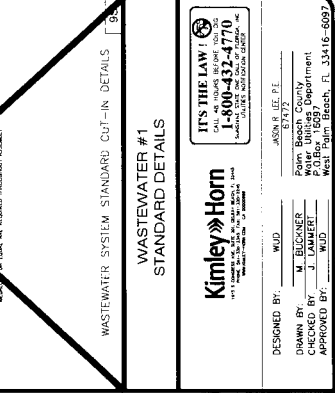
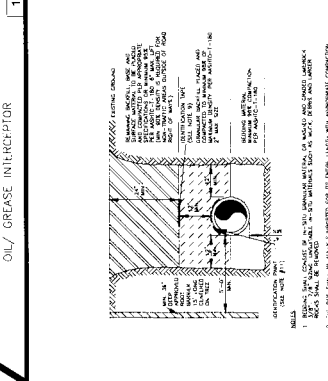
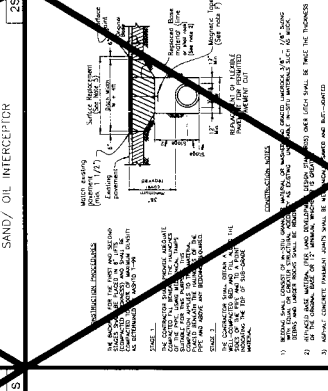
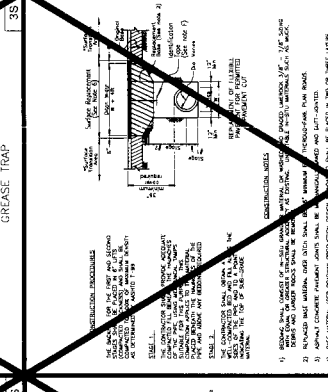
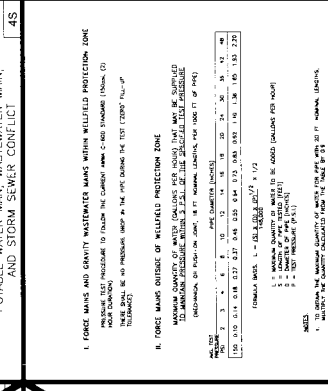
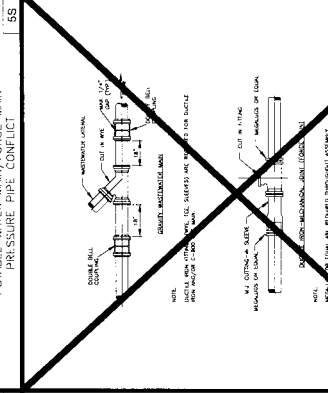
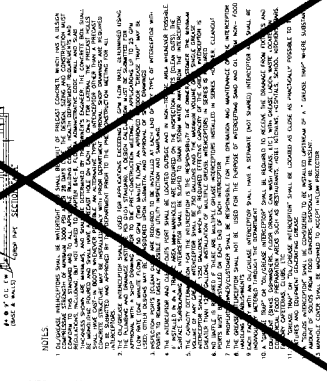
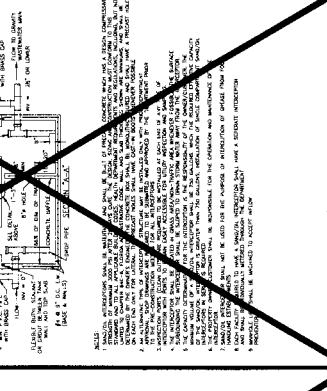
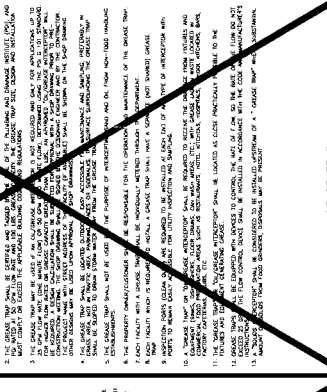
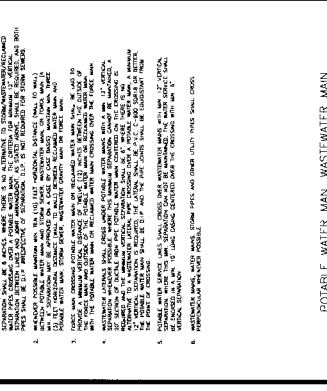
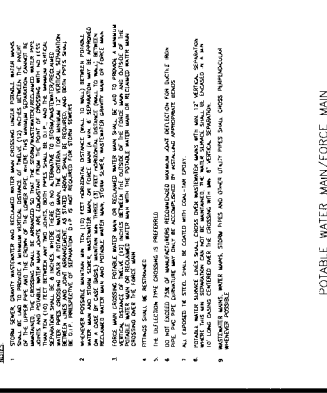
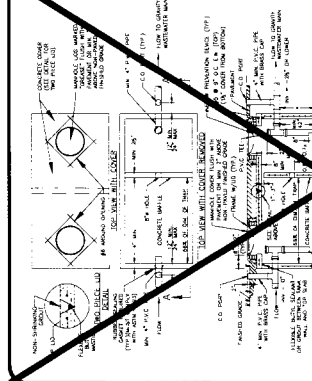
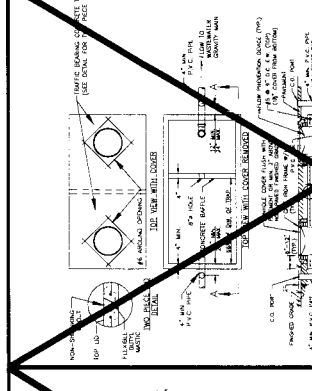
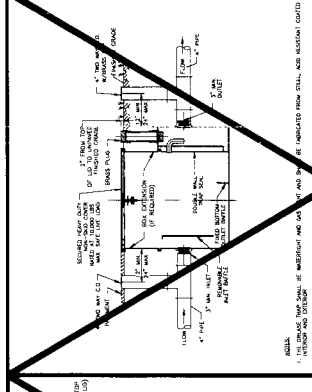
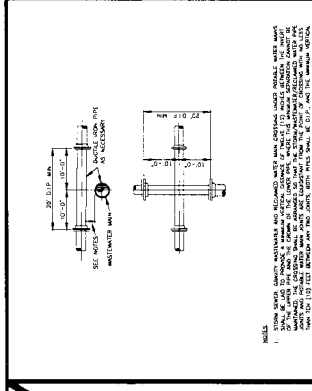
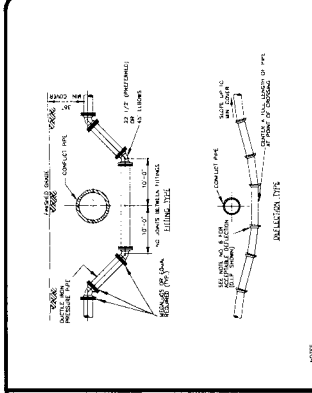
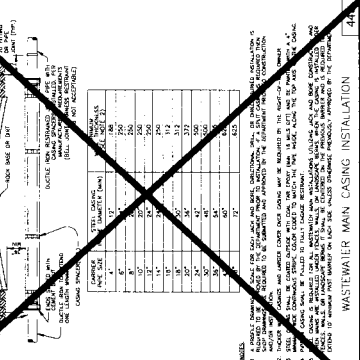


TABLE 1. THE DATA IN THE ABOVE TABLE ARE BASED UPON THE FOLLOWING INSTALLATION CONDITIONS:

1. SOIL TYPE: SAND	2. TEST PRESSURE: 150 PSF	3. DURATION OF TEST: 5 MIN.	4. DIRECTION OF FORCE: VERTICAL
--------------------	---------------------------	-----------------------------	---------------------------------

THE DATA IN THE ABOVE TABLE ARE BASED UPON THE FOLLOWING INSTALLATION CONDITIONS:

1. SOIL TYPE: SAND	2. TEST PRESSURE: 150 PSF	3. DURATION OF TEST: 5 MIN.	4. DIRECTION OF FORCE: VERTICAL
--------------------	---------------------------	-----------------------------	---------------------------------



WASTEWATER #5 STANDARD DETAILS

IT'S THE LAW! 

1-800-432-4770

LEADING, FIRM AND COUNSEL IN FLORIDA AND
NORTH CAROLINA

DESIGNED BY: WUD

DRAWN BY: M. BUCKNER

CHECKED BY: J. LAUMERT

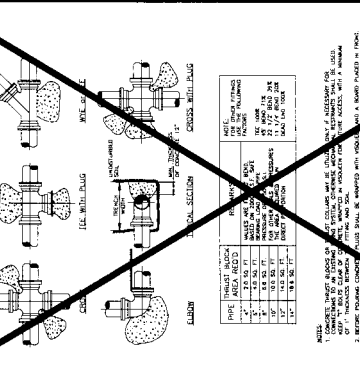
APPROVED BY: _____

4020 N. W. 1st _____
8/13/77

Palm Beach County
Waste Management Department
1585 S. Dixie Highway
West Palm Beach, FL 33416-6097

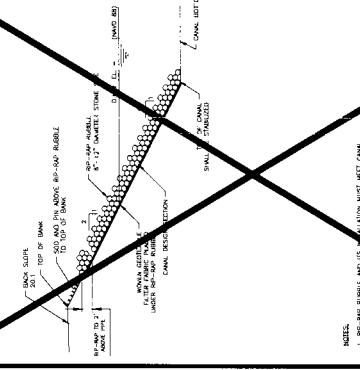
Kimley»»»Horn

1001 N. W. 10th Street, Suite 200
Fort Lauderdale, FL 33304
Phone: (305) 463-1100



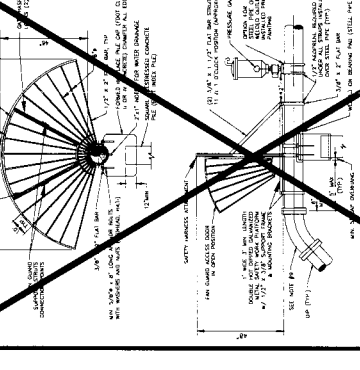
3. CONCRETE SHALL BE 28 DAY $f'_c = 5.1$ MINIMUM
4. THE ENGINEER OF RECORD SHALL SUBMIT A THRU-PUT BLOCK SIZE CALCULATION FOR THE CONNECTIONS INTO EXISTING DUCTING MAINS LARGER THAN 14"
5. THE ENGINEER OF RECORD SHALL SUBMIT A PIPE RESTRAINT DESIGN FOR MAINS LARGER THAN 14"

WUD 20-579
TYPICAL THRUST BLOCKS FOR PRESSURE PIPING



1. OWNERSHIP SPECIFICATIONS: NO PERMITTING REQUIREMENTS.

RIP-RAP RUBBLE DETAIL



NOTES

1. THE GUARDS SHALL BE PLACED AT EACH END OF SAME. CROSSING

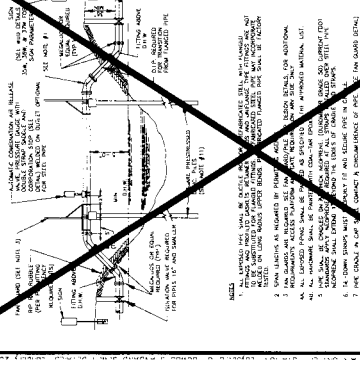
2. NO WEIGHING OF HIDE TO REMAIN OR REMAIN TO STRINGS SHALL BE MADE.

3. (Signature) (Date)

**FAN GUARD / PILE CAP DESIGN -
(SINGLE PIPE / SINGLE PILES)**



Year	Percentage of Population Aged 65 and Over
1950	7
1960	9
1970	11
1980	13
1990	15
2000	16
2010	17
2020	18



- 8 SHOW EXISTING CONDUIT CROSS SECTION, ULTIMATE CONAL SECTION, AND RELEVANT ELEVATIONS
- 9 THE LEFT CABLE SHALL BE MINIMUM BELOW SURFACE. HOLE SHALL BE FILLED WITH EPOXY GROUT.
- 10 INCREASED AREA OF THE SPIRAL REINFORCED WITH TWO NUMBERS OF SECTION TYPE.

TYPICAL FORCE MAIN AERIAL CROSSESSING
SINGLE PIPE (SINGLE PHASE)

1. **SCHEMATIC MATRICE**
PLAN VIEWS ARE SCHEMATIC IN NATURE AND MEANT TO SHOW THE SCHEMATIC ARRANGEMENT OF EQUIPMENT AND CONDUIT.
2. **ROUTING AND CONDUIT DRAWINGS**
THE CONDUIT ROUTING AND CONDUIT DRAWINGS FOR LAY OUT OF EQUIPMENT THE CONTRACT DOCUMENTS WILL VARY FROM THE SHOP DRAWINGS. IN ORDER THE CONTRACTOR SHALL PROVIDE THE CONDUIT ROUTING AND CONDUIT DRAWINGS FOR SPACE FOR EQUIPMENT OR CLEARANCES. LAYOUT CONDUITS IN ORDERINGS OF ENCLOSURES PER THE APPROVED SHOP DRAWINGS, DO NOT USE THE CONDUIT DRAWINGS.
3. **CLEARANCES**
THE CONTRACTORS RESPONSIBILITY TO MEET N.E.C. CLEARANCES ABOUT THE EQUIPMENT. THE SAME APPLIES TO MACHINERY SUPPORTS.
4. **ROUTING**
CONDUIT ROUTING IS SCHEMATIC IN NATURE. CONDUIT ROUTINGS IS SHOWN FOR CLARITY ON THE CONTRACT DOCUMENTS. ROUTE CONDUITS AS MAY BE REQUIRED. PROVIDE LAY OUT WORKS AS REQUIRED PER N.E.C.
5. **ROUTER FACILITIES**
ROUTER FACILITIES ARE INDICATED CONDUIT ROUTING SHALL ACCOUNT FOR SUCH FACILITIES.
6. **RESPONSIBILITIES**
EQUIPMENT SUPPLIERS, EQUIPMENT VENDORS, GENERAL CONTRACTOR, SUB CONTRACTORS, SHALL PROVIDE THE CONDUIT ROUTING AND CONDUIT DRAWINGS. THE CONTRACT DOCUMENTS INCLUDING DRAWINGS AND SPECIFICATIONS.
7. **HOME RUNS**
CONTRACTOR SHALL COORDINATE HOME RUNS BETWEEN PLAN VIEWS WHERE ANY CONDUIT IS SHOWN IN A NEW PLAN VIEW IT SHALL BE INSTALLED THE ENTIRE LENGTH AS MAY BE REQUIRED.
8. **FIELD ADJUSTMENTS**
CONTRACTOR SHALL COORDINATE ANY CHANGES OR MAKE MINOR ADJUSTMENTS AS NEEDED. INFORM OWNER/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY IF PROBLEMS OR CONFLICTS EXIST.
9. **COMPLETE AND FUNCTIONAL SYSTEMS**
CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM. THE CONTRACTOR SHALL PROVIDE THE CONDUIT ROUTING AND CONDUIT DRAWINGS. THE CONTRACT DOCUMENTS INCLUDING DRAWINGS AND SPECIFICATIONS.

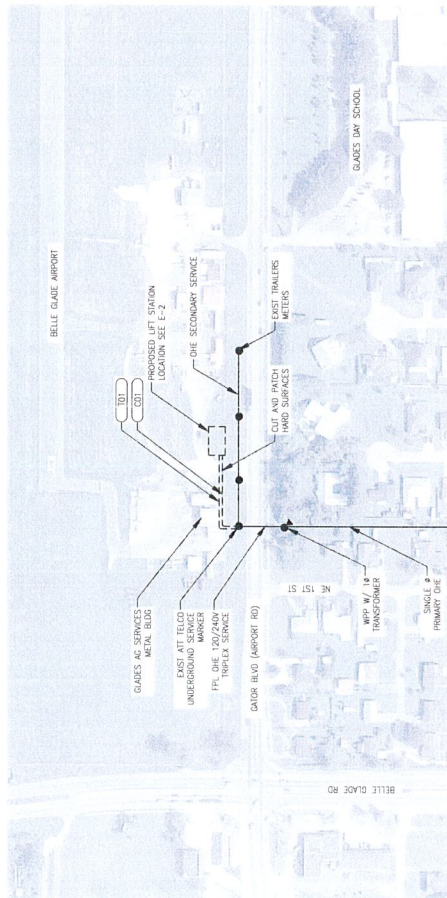
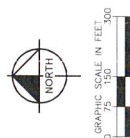
[illegible]

	LIGHTNING EXPOSED		LOCAL SWITCH, FLAM SWITCH		JUNCTION BOX
	LIGHTING RACEWAY CONCEALED		Thermal Switch		MOTOR OPERATED VALVE
	RACEWAY CONCEALED		HEATER		RED, MAINTAINED PUSH BUTTON
	RACEWAY TURNED UP/DOWN		PLUG TIME METER		TUNING CONTACT
	MOTOR		TRANSFORMER		CONTROL RELAY, MOTOR STARTER, ETC.
	FUSE		CIRCUIT BREAKER		CONDENSER SEPARATE CONDUITS WITH SEPARATE WIRE
	CAPACITOR		LIGHTNING ARRESTER		IDENTIFIES INDIVID. A CIRCUIT A
	SAFETY DISCONNECT SWITCH, PH RATED		GROUND		NORMALLY OPEN CONTACT
	BULB, 147 LF		NORMALLY CLOSED CONTACT		

LOCATION	CONDUIT	MISC ENCLOSURE MATERIALS	MISC ENCLOSURE NEMA RATING	FASTENERS, STRUT THREADED ROD, ETC.	REMARKS
INTERIOR					
EXPOSED	PVC SCHED. 80	316 SS	4X	316 SS	
EXTERIOR					
BELOW GRADE	PVC SCHED. 80	CONCRETE BOMES	N/A	316 SS	
ABOVE GRADE	PVC SCHED. 80	316 SS	4X	316 SS	

1. THE SCHEDULE SHALL ESTABLISH THE MINIMUM LEVEL OF QUALITY FOR MATERIALS, UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS	N/A	NOT APPLICABLE
2. THE SCHEDULE SHALL APPLY TO POWER TRANSFORMERS, LIGHT FIXTURES AND THE LIKE. THENCE, ELEMENTS ARE NOTED OR INDICATED, PLEASEWHERE	316 SS	316 STAINLESS STEEL

CM	CONTRACTOR	OL	OVER LOAD RELAY
CR	CORNER RELAY	PB	PUSH BUTTON
CP	CONTRACT PANEL	POP	POWER OFF PANEL
CS	DISCONNECT SWITCH	PM	POWER MONITOR
DC	DISC	R/G	RED, GREEN, AMBER
ETM	ELAPSED TIME METER	SA	SURGE ARRESTOR
F	FUSE	SS	SELECTOR SWITCH OR 316 STAINLESS STEEL
FSI	FIELD SURGE ARRESTOR	TS	TEST SWITCH
GPA	GROUND FAULT INTERRUPTER	W	WATER PROOF
HDA	HAND-OFF-AUTO	WP	WATER PROOF
HDR	HAND-OFF-REMOTE	WSC	WATER SWITCH CLOSED
LA	LOAD	WPO	WATER PROOF OPEN
LCU	LOAD CENTER UNIT/CELL	ZSO	ZION, ARIZONA JILL'S



Kimley»Horn

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
920 WEKIVA WAY SUITE 200, WEST PALM BEACH, FL 33411
PHONE: 561-845-0665 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM CA 00000696

**BELLE GLADE AIRPORT LIFT
STATION**
PREPARED FOR
CITY OF BELLE GLADE

FLORIDA
DATE:

ELECTRICAL NOTES & LEGENDS

E-1

SHEET NUMBER

C&W engineering
ELECTRICAL CONSULTANTS

CALL 2 WORKING DAYS
BEFORE YOU DIG

IT'S THE LAW!
DIAL 811

Know what's below.



