CITY OF HIALEAH

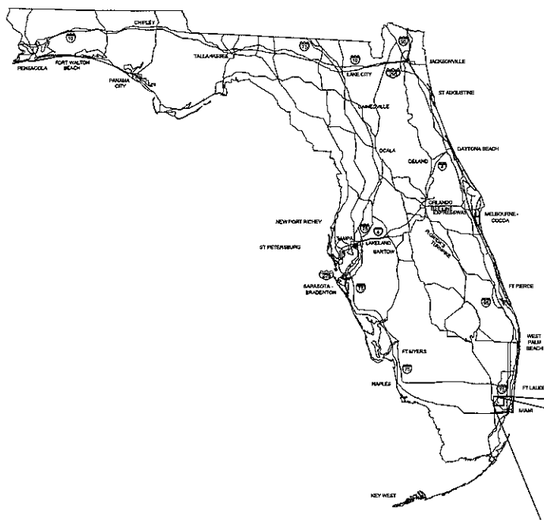
DEEP INJECTION WELL PUMP STATION

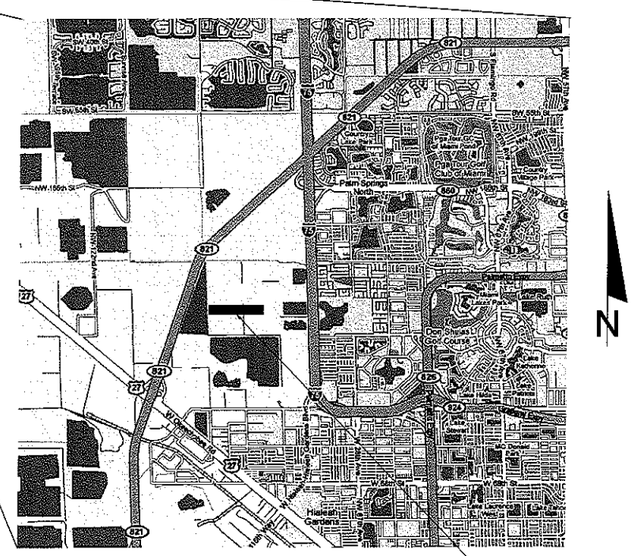
CITY OF HIALEAH, FLORIDA

SECTION 17, TOWNSHIP 52, RANGE 40

DECEMBER 2012

AS-BUILT - FOR OPERATIONAL TESTING





LOCATION MAP

PROJECT SITE

NOTES CONCERNING THESE AS-BUILT DRAWINGS:

1. THESE AS-BUILT DRAWINGS HAVE BEEN PREPARED USING INFORMATION COMPILED BY OTHERS DURING CONSTRUCTION OF THESE FACILITIES. CONSTRUCTION OF THESE FACILITIES WAS NOT UNDER THE ENGINEER'S RESPONSIBLE SUPERVISION, DIRECTION, OR CONTROL.THESE AS-BUILT DRAWINGS DO NOT NECESSARILY REPRESENT, IN DETAIL, EXACT LOCATIONS, OR MANNER OF CONSTRUCTION.THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT HAVE BEEN INCORPORATED INTO THESE AS-BUILT DRAWINGS.
2. THE ENGINEER'S CERTIFICATION OF AS-BUILT DRAWINGS (IF PROVIDED BY SIGNATURE AND SEAL HEREON) IS ONLY INTENDED TO REPRESENT THAT:
   - A. THE ENGINEER WAS IN RESPONSIBLE CHARGE OF INSPECTING THE CONSTRUCTION OF THE PROJECT.
   - B. CONSTRUCTION HAS BEEN COMPLETED TO THE POINT WHERE PERMITTED FACILITIES ARE FUNCTIONALLY COMPLETE.
   - C. TO THE BEST OF THE ENGINEER'S KNOWLEDGE AND BELIEF, ANY DEVIATIONS FROM THE CONSTRUCTION PERMIT AND APPROVED PLANS AND SPECIFICATIONS WILL NOT PREVENT THE PROJECT FROM FUNCTIONING IN ACCORDANCE WITH ORIGINAL DESIGN INTENT.
   - D. THE AS-BUILT DRAWINGS FOR THE PROJECT ARE, IN THE ENGINEER'S OPINION, ADEQUATE FOR THE PURPOSES OF CONSTRUCTION PERMITTING AND FACILITIES OPERATION AND INDICATE ALL DEVIATIONS KNOWN TO THE ENGINEER FROM THE CONSTRUCTION PERMIT AND APPROVED ENGINEERING PLANS AND SPECIFICATIONS.

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REF-01	SITE SURVEY
REF-02	SPECIFIC PURPOSE SURVEY

AS-BUILT DRAWING
SEE COVER SHEET FOR NOTES
04/26/2013

REV	DATE	DESCRIPTION	BY

JOB NO. 260363
DESIGNED FAD
DRAWN FAD
CHECKED JJK
REVIEWED SAS
DATE 07/31/2009

ISSUE CERTIFICATION

FL ENG. LICENSE NO.
ENGINEER OF RECORD: WILLIAM A. RATHBUN, P.E., 33972

PARSONS
WATER & INFRASTRUCTURE INC.
4925 INDEPENDENCE PARKWAY
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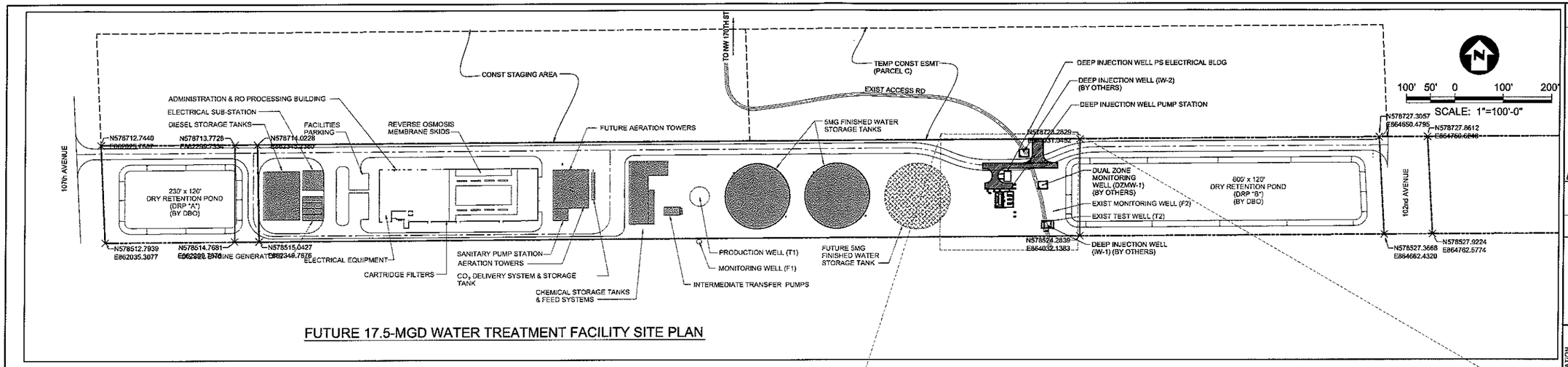
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 9834

WATER AND SEWER DEPARTMENT

CITY OF HIALEAH, FLORIDA
DEEP INJECTION WELL PUMP STATION

GENERAL
COVER SHEET

DRAWING NO. G-01
REV. R



FUTURE 17.5-MGD WATER TREATMENT FACILITY SITE PLAN

REVISION 2 - CONFORMED SET NOTES (#)

(TO ACCOMPANY ADDENDUM NUMBERS 1 & 4)

1. CONTRACTOR SHALL PROVIDE BAHIA SOD WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTOR SHALL MAINTAIN AND WARRANT THE SOD FOR A MINIMUM OF 3 MONTHS. SOD SHALL BE KEPT IN A HEALTHY CONDITION THROUGHOUT THE WARRANTY PERIOD.
2. THIS PIPE SHALL BE INSTALLED WITH A MINIMUM 6 FEET COVER.
3. POST MOUNTED UTILITY STATION DETAILS (SEE DETAILS 5 & 7 ON SHEET C-05). THE DBO CONTRACTOR (TO BE PROCURED BY OWNER) WILL INSTALL AND CONNECT THE POTABLE WATER LINES (TYP 3). DBO CONTRACTOR SHALL PROVIDE THE HOSE.
4. THE LABELED LINE ["FUTURE 16" DIP PRODUCTION WELL PERFORMANCE TEST WATER (BY DBO)"] HAS BEEN REMOVED FROM THIS PROJECT.
5. THE DWIPS CONTRACTOR SHALL INSTALL THE 10" ACIDIFIED DISCHARGE OR REJECT LINE FROM THE DWIPS WET WELL TO 6'-0" FROM EDGE OF ROAD BASE.

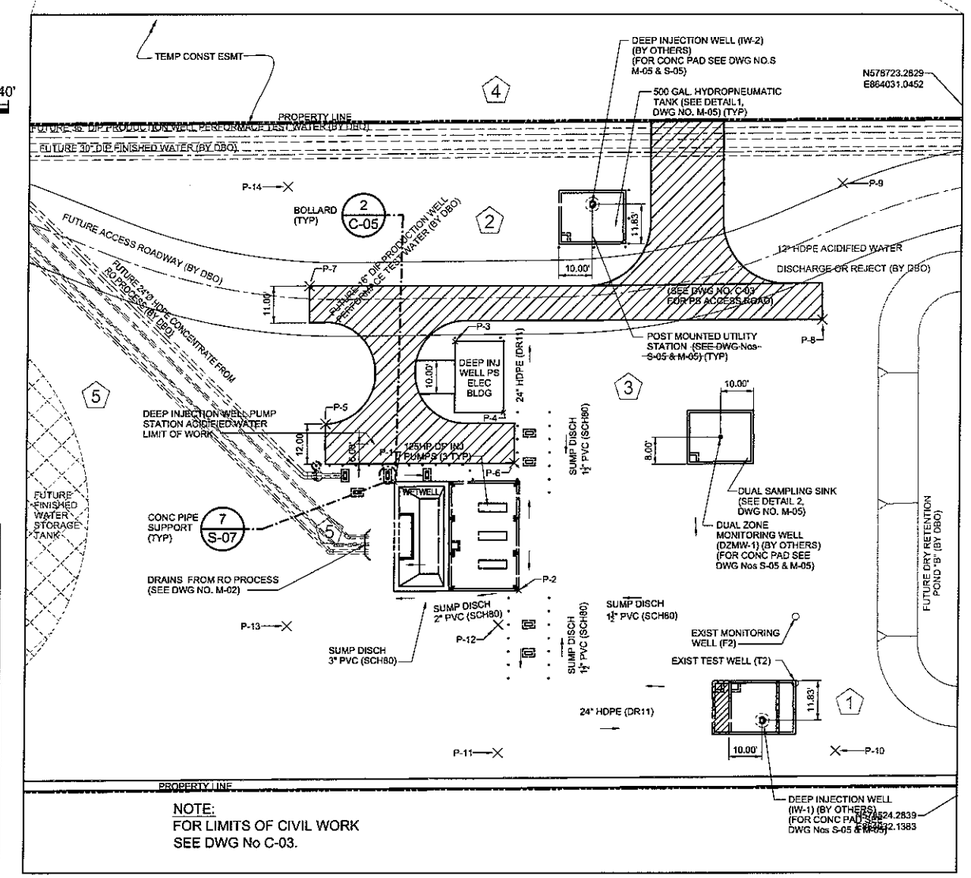
NOTES:

1. 24" HDPE (DR11) SHALL BE INSTALLED WITH A MINIMUM OF 6'-0" OF COVER, UNDER ROAD.
2. THE DBO CONTRACTOR TO BE PROCURED BY THE OWNER, WILL INSTALL AND CONNECT THE POTABLE WATER LINES, (TYP 3 PLACES). DBO CONTRACTOR SHALL PROVIDE THE HOSE.
3. THE DIWPS CONTRACTOR SHALL INSTALL THE 10" ACIDIFIED DISCHARGE OR REJECT LINE FROM THE DIWPS WET WELL, TO 6'-0" FROM EDGE OF ROAD BASE.

(1)

CONSTRUCTION POINT TABLE

POINT No	NORTHING	EASTING	DESCRIPTION
P-1	578615.08	863857.15	PS NW CORNER
P-2	578582.46	863894.93	PS SE CORNER
P-3	578657.05	863874.91	ELEC BLDG NW CORNER
P-4	578635.79	863889.69	ELEC BLDG SE CORNER
P-5	578632.37	863836.16	PS DWY NW CORNER
P-6	578620.64	863893.12	PS DWY SE CORNER
P-7	578673.68	863831.06	PS ACCESS RD NW CORNER
P-8	578663.53	863985.57	PS ACCESS RD SE CORNER
~~P-9~~	~~578704.27~~	~~863991.20~~	~~FENCE CORNER~~
~~P-10~~	~~578634.57~~	~~863999.64~~	~~FENCE CORNER~~
~~P-11~~	~~578534.02~~	~~863988.96~~	~~FENCE CORNER~~
~~P-12~~	~~578572.24~~	~~863888.77~~	~~FENCE CORNER~~
~~P-13~~	~~578571.03~~	~~863825.18~~	~~FENCE CORNER~~
~~P-14~~	~~578703.34~~	~~863824.32~~	~~FENCE CORNER~~



NOTE:
FOR LIMITS OF CIVIL WORK
SEE DWG No C-03.

PROPOSED 7.39-MGD DEEP INJECTION WELL PUMP STATION SITE PLAN

AS-BUILT DRAWING SEE COVER SHEET FOR NOTES 04/26/2013

REV	DATE	DESCRIPTION	BY

ISSUE CERTIFICATION

JOB NO.	280363	
DESIGNED		RJ
DRAWN		FAD
CHECKED		RJ
REVIEWED		SAS
DATE	07/31/2009	

FL ENG. LICENSE NO. 53979
ENGINEER OF RECORD: WILLIAM A. RATHBUN, P.E.

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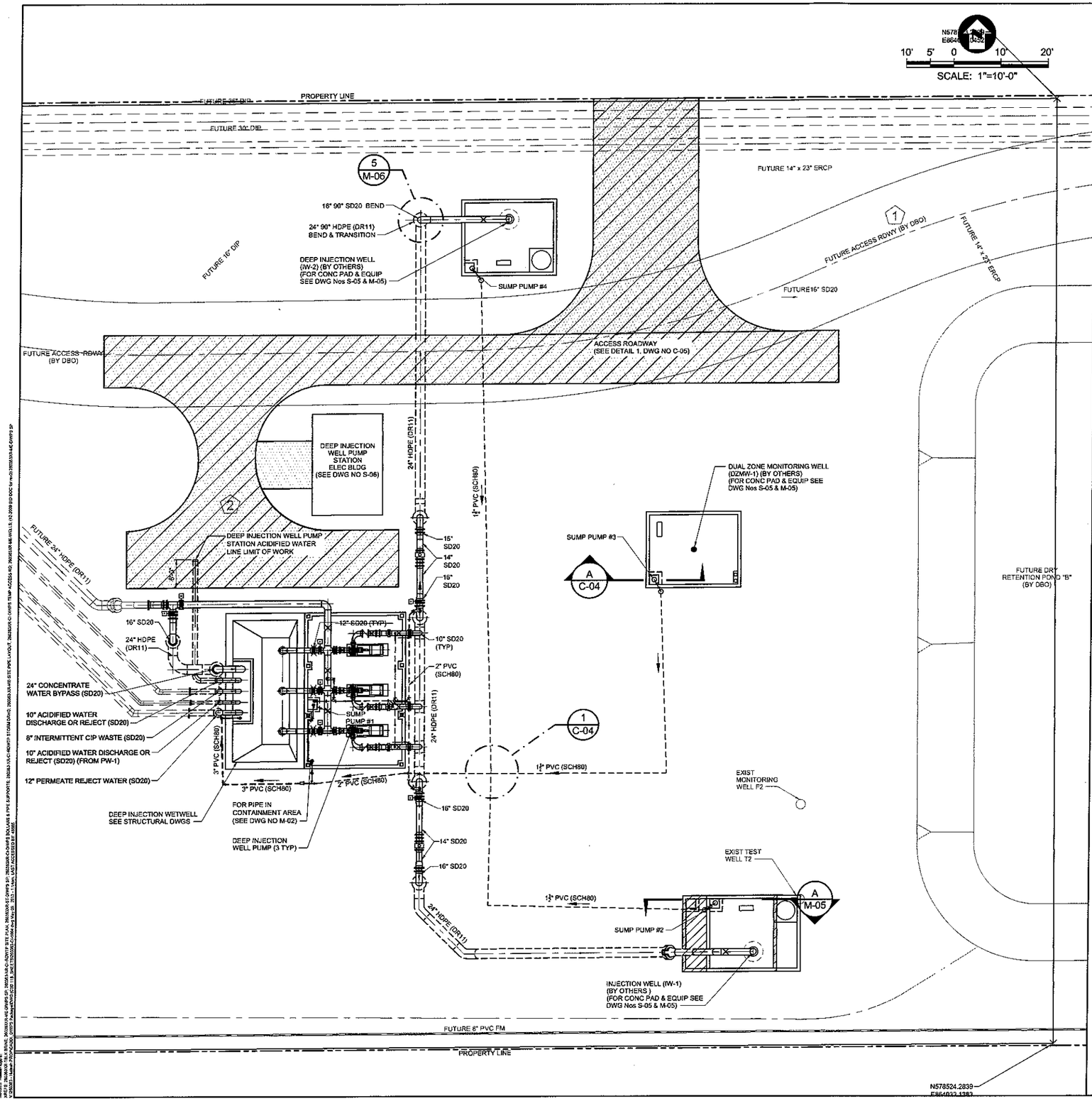
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 8634

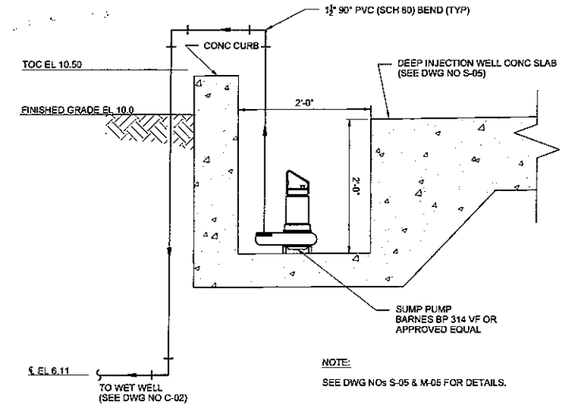
WATER AND SEWER DEPARTMENT
CITY OF HIALEAH 1928

CITY OF HIALEAH, FLORIDA
DEEP INJECTION WELL PUMP STATION

CIVIL
SITE PLAN

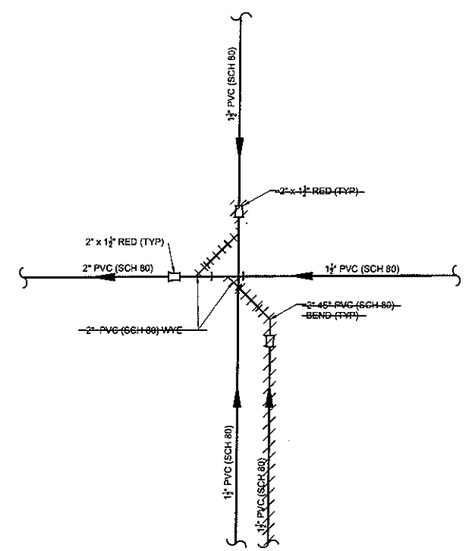
DRAWING NO.	REV.
C-02	R





NOTE:
SEE DWG NOs S-05 & M-05 FOR DETAILS.

A / C-04 SUMP SECTION (TYP)
SCALE: 1" = 1'-0"



1 / C-04 DETAIL
SCALE: NONE

REVISION 2 - CONFORMED SET NOTES (#)

(TO ACCOMPANY ADDENDUM NUMBERS 1 & 4)

1. CONTRACTOR SHALL PROVIDE BAHIA SOD WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTOR SHALL MAINTAIN AND WARRANT THE SOD FOR A MINIMUM OF 3 MONTHS. SOD SHALL BE KEPT IN A HEALTHY CONDITION THROUGHOUT THE WARRANTY PERIOD.
2. THE DWIPS CONTRACTOR SHALL INSTALL THE 10" ACIDIFIED DISCHARGE OR REJECT LINE FROM THE DWIPS WET WELL TO 6'-0" FROM EDGE OF ROAD BASE.

AS-BUILT DRAWING
SEE COVER SHEET FOR NOTES
04/26/2013

REV	DATE	DESCRIPTION	BY

JOB NO.	260363
DESIGNED	JJK
DRAWN	FAD
CHECKED	JJK
REVIEWED	SAS
DATE	07/31/2009

ISSUE CERTIFICATION

FL ENG. LICENSE NO
ENGINEER OF RECORD: WILLIAM A. RATHBUN, PE#E. 53879

PARSONS
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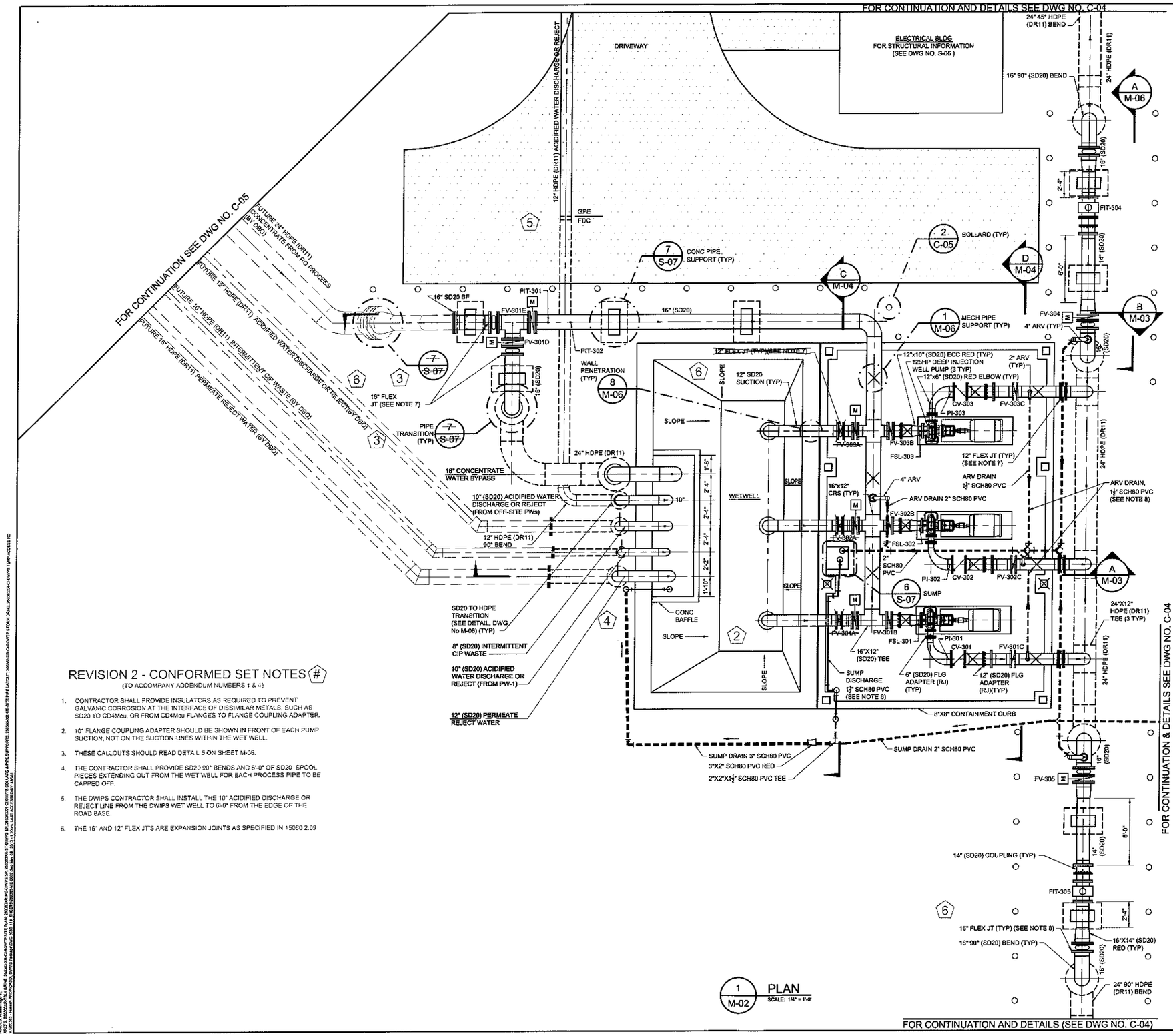
WATER AND SEWER DEPARTMENT

CITY OF HIALEAH, FLORIDA
DEEP INJECTION WELL PUMP STATION

CIVIL
YARD PIPING PLAN & DETAILS

DRAWING NO.	REV.
C-04	R



1 M-02 PLAN
SCALE: 1/4" = 1'-0"

4' 2' 0 4' 8'
SCALE: 1/4"=1'-0"

NOTES:

1. CONTRACTOR SHALL ADJUST PAD WIDTH & HEIGHT DIMENSIONS BASED ON PUMP MODEL PURCHASED. PIPING AND FITTING ADJUSTMENTS MAY ALSO BE REQUIRED.
2. CONTRACTOR TO COORDINATE SIZING OF PUMP SUCTION AND DISCHARGE FITTINGS WITH PUMP SUPPLIER.
3. ALL PIPING BELOW GRADE SHALL HAVE 3'-0" MINIMUM COVER.
4. DESIGN CONDITION TABLE FROM SPECIFICATION SECTION 11211, TABLE "A", PROVIDED ON DWG No M-04.
5. ALL ABOVE GRADE PIPING, FITTINGS, & FLANGES SHALL BE SUPER DUPLEX 20 (SD20). ALL BELOW GRADE PIPING, FITTINGS, & FLANGES SHALL BE HDPE DR11.
6. SEE DWG NO.S S-01 THRU S-08 FOR STRUCTURAL INFORMATION & DETAILS.
7. CONTRACTOR SHALL INSTALL ALL FLEXIBLE JOINTS WITH TIE-RODS. SEE DETAIL, DWG NO. M-06.
8. SUMP PUMP DISCHARGE & ARV DRAIN PIPE ROUTING SHOWN IS DIAGRAMMATIC AND SHALL BE DECIDED IN THE FIELD BY THE CONTRACTOR. CONTRACTOR SHALL DOCUMENT NEW PIPE ROUTING IN AS-BUILT DRAWINGS.
9. DESIGN CONDITIONS, VALVE SCHEDULE & SYSTEM HEAD CURVE IS LOCATED ON DWG No M-04.
10. CONTRACTOR SHALL VERIFY THE ROTATION OF THE IMPELLER W/ MANUFACTURER TO ENSURE THE DISCHARGE MATCHES THE LAYOUT.
8. NO CHEMICALS, HAZARDOUS OR OTHERWISE, USED OR STORED ON-SITE.
9. NO HAZARDOUS (CLASSIFIED) LOCATIONS PER NEC CHAPTER 500.

REVISION 2 - CONFORMED SET NOTES (#)

(TO ACCOMPANY ADDENDUM NUMBERS 1 & 4)

1. CONTRACTOR SHALL PROVIDE INSULATORS AS REQUIRED TO PREVENT GALVANIC CORROSION AT THE INTERFACE OF DISSIMILAR METALS, SUCH AS SD20 TO CD4Mcu, OR FROM CD4Mcu FLANGES TO FLANGE COUPLING ADAPTER.
2. 10" FLANGE COUPLING ADAPTER SHOULD BE SHOWN IN FRONT OF EACH PUMP SUCTION, NOT ON THE SUCTION LINES WITHIN THE WET WELL.
3. THESE CALLOUTS SHOULD READ DETAIL 5 ON SHEET M-06.
4. THE CONTRACTOR SHALL PROVIDE SD20 90° BENDS AND 6'-0" OF SD20 SPOOL PIECES EXTENDING OUT FROM THE WET WELL FOR EACH PROCESS PIPE TO BE CAPPED OFF.
5. THE DWIPS CONTRACTOR SHALL INSTALL THE 10" ACIDIFIED DISCHARGE OR REJECT LINE FROM THE DWIPS WET WELL TO 6'-0" FROM THE EDGE OF THE ROAD BASE.
6. THE 16" AND 12" FLEX JT'S ARE EXPANSION JOINTS AS SPECIFIED IN 15060 2.09

AS-BUILT DRAWING
SEE COVER SHEET FOR NOTES
04/26/2013

REV	DATE	DESCRIPTION	BY

JOB NO.	260363	
DESIGNED		JJK
DRAWN		FAD
CHECKED		JJK
REVIEWED		SAS
DATE	07/31/2009	

ISSUE CERTIFICATION

PLEASE DO NOT SCALE DRAWINGS
DIRECTOR OF ENGINEERING
WILLIAM A. RATRIN, P.E., 43878

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WATER AND SEWER DEPARTMENT

CITY OF HIALEAH, FLORIDA
DEEP INJECTION WELL PUMP STATION

MECHANICAL
PUMP STATION PLAN

DRAWING NO. M-02
REV. R