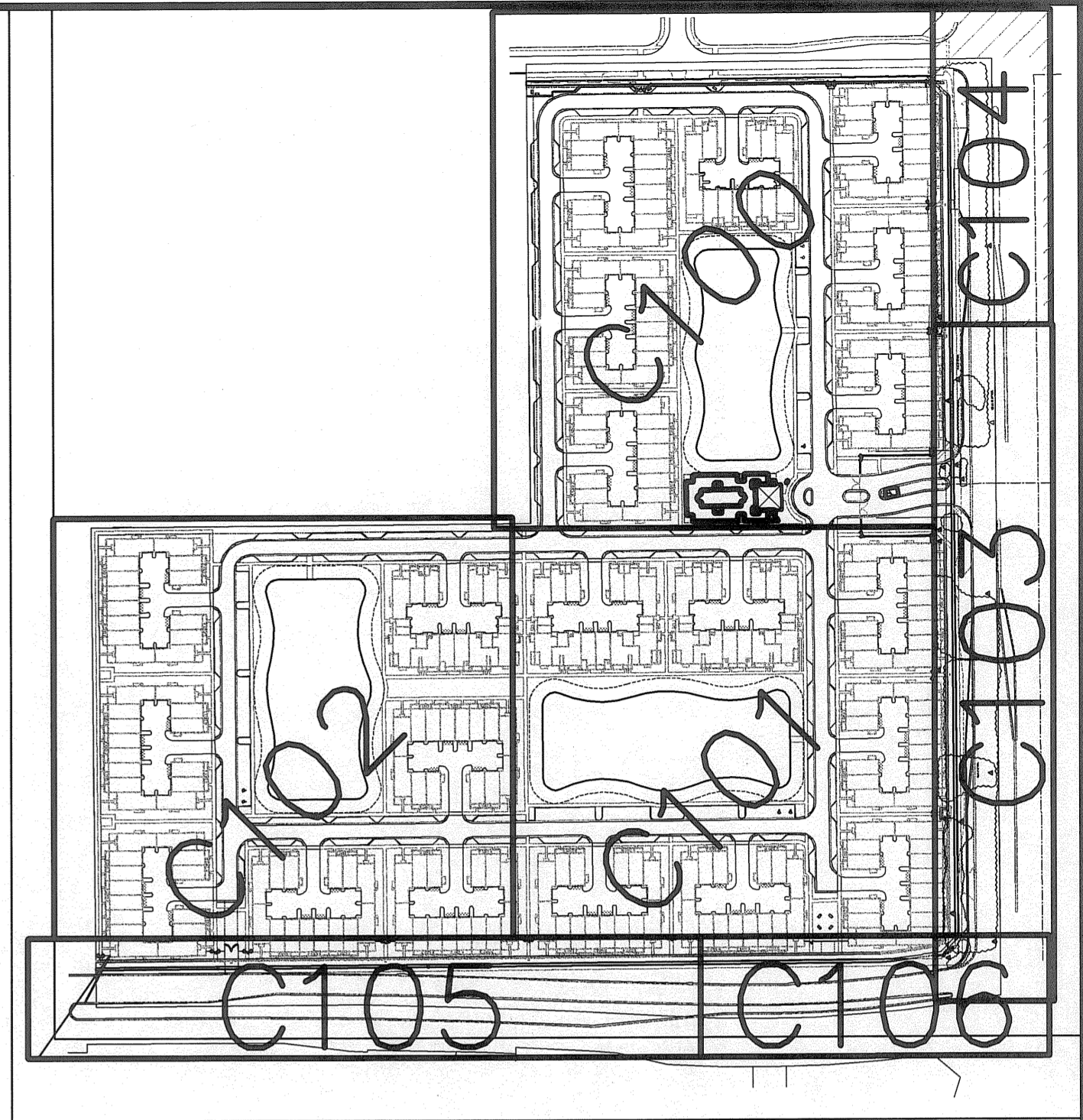
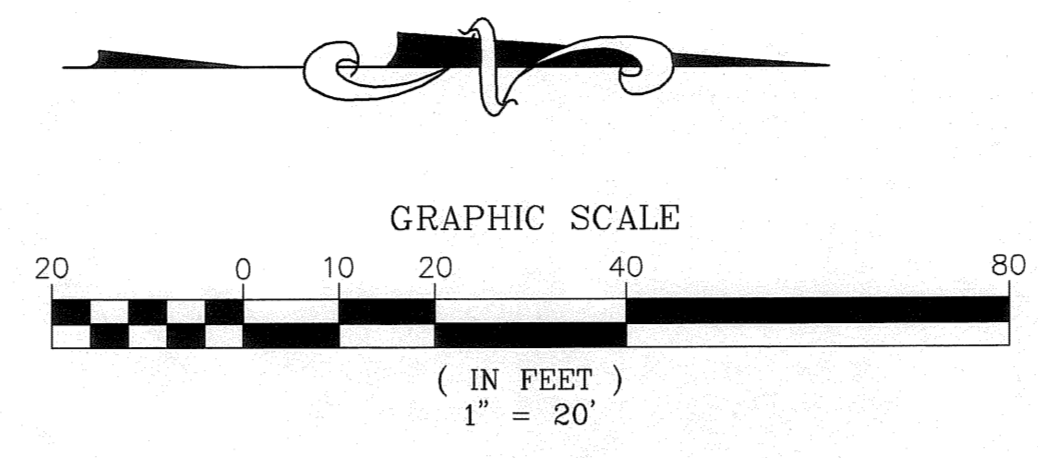


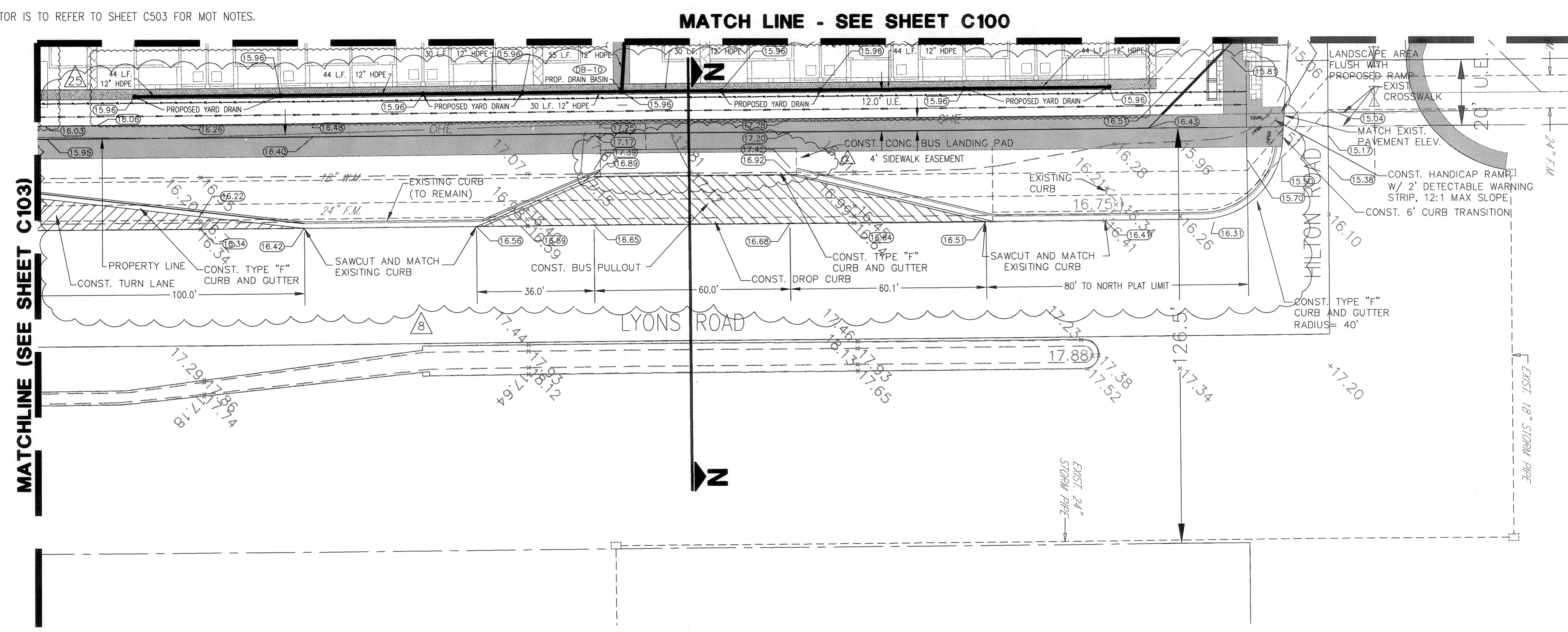
LEGEND

- EXISTING ELEVATION, FEET NGVD
- PROP. ELEVATION, FEET NGVD
- PROP. WATER VALVE
- EXISTING WATER VALVE
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- EXISTING POLE ANCHOR
- EXISTING CONC. POLE
- EXISTING ELEC. BOX/ELEC. HANDHOLE
- EXISTING LIGHT POLE
- EXISTING WOOD POWER POLE
- PROPOSED BUS PULLOUT
- PROPOSED TURN LANE
- PROPOSED SIDEWALK
- PROPOSED PAVERS



LOCATION MAP NOT TO SCALE

NOTE: ALL EXISTING DRAINAGE STRUCTURES AND PIPING WITHIN THE SITE SHALL BE REMOVED AS PART OF THIS PROJECT.
THE CONTRACTOR IS TO REFER TO SHEET C503 FOR MOT NOTES.



PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS

NOTE: APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit For Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction In The Public Right Of Way.

NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

- PLAN CONSISTANT WITH PLAT REQUIREMENTS
- PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY: _____ DATE: _____
DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKINGS & SIGNS

SUMMARY OF DRAINAGE STRUCTURES						
QTY	STR. NO.	DESCRIPTION	BARRELS	SIZE (INCHES)	LENGTH (LF)	TYPE
1	DB-10	INLET PIPE	1	12	55	DRAIN BASIN

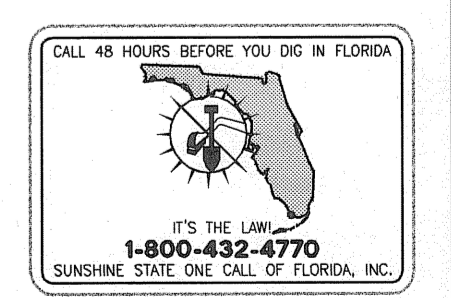
NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
2	10-9-06	REVISIONS PER BROWARD COUNTY COMMENTS	NS				
4	12-01-06	ADDED CALLOUT, REMOVED PAVERS AND CLARIFIED GRADING	NS				
8	02-07-07	DEPICTED EASEMENT, ADDED ANNOTATION PER B.C. COMMENTS	LCR				
9	05-10-07	MODIFIED LEGEND	NS				
25	10-18-10	MODIFIED DRAINAGE PER SITE PLAN REVISION	LCR				

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Certificate of Authorization 614

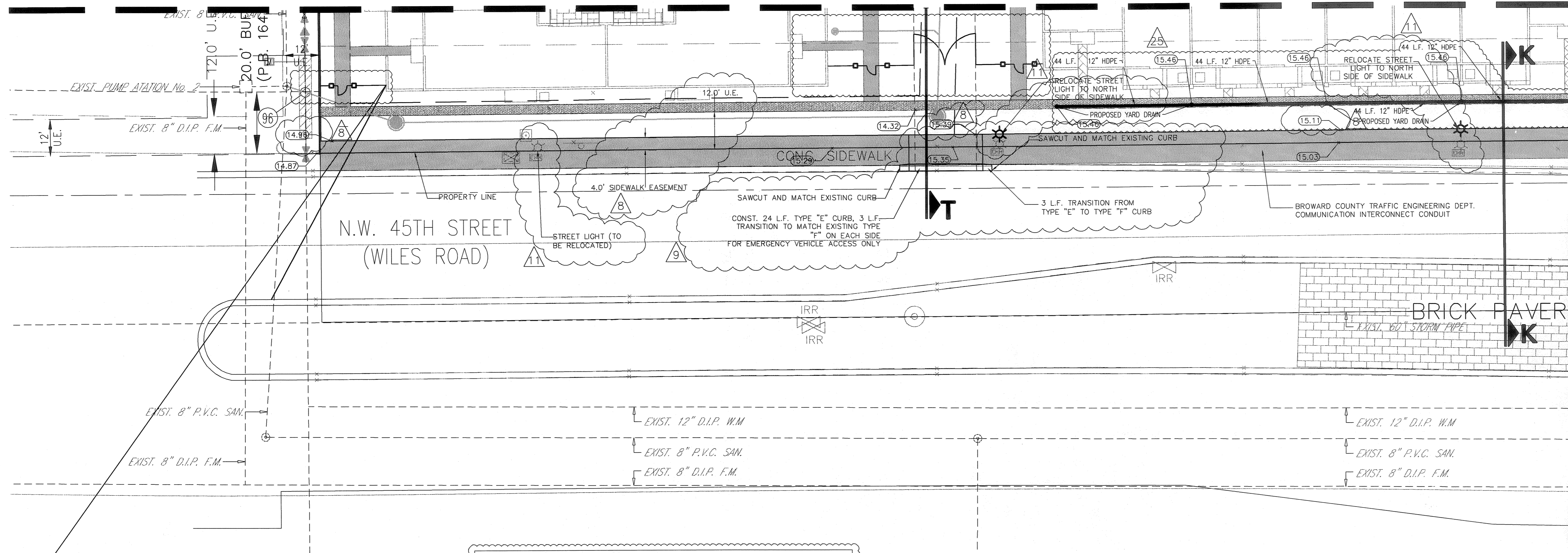
LENNAR HOMES
PALOMA LAKES
COCONUT CREEK, FLORIDA

LYONS ROAD MODIFICATIONS

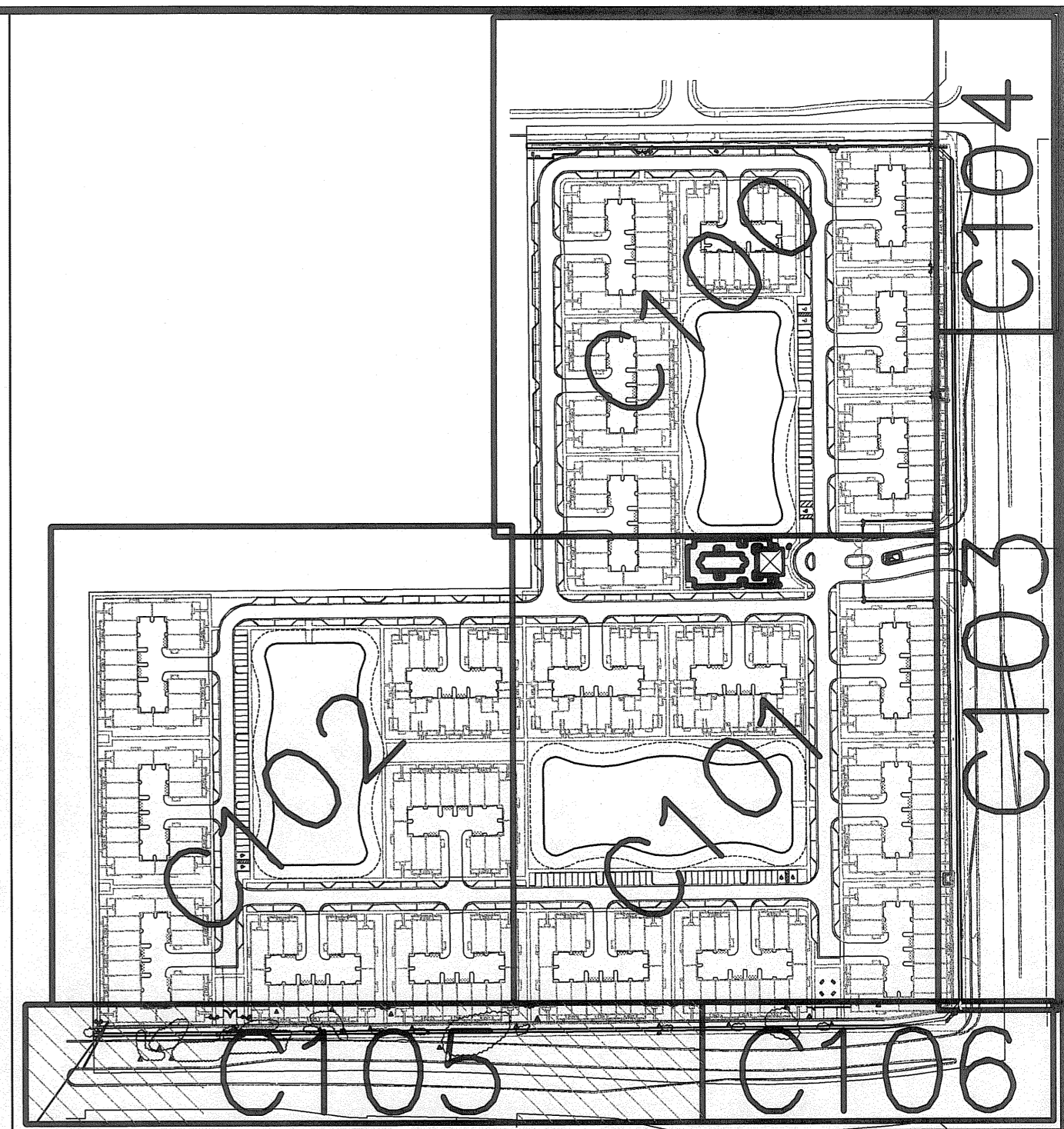
APPROVED PATRICK A. FIGURELLA, P.E.
FLORIDA REGISTRATION No. 54795
SCALE: 1" = 20'
PROJECT No. 04-4780
CAD FILE 044780-C103-104-LYONS PLAN
DATE: OCTOBER 18, 2010
SHEET **C104** OF



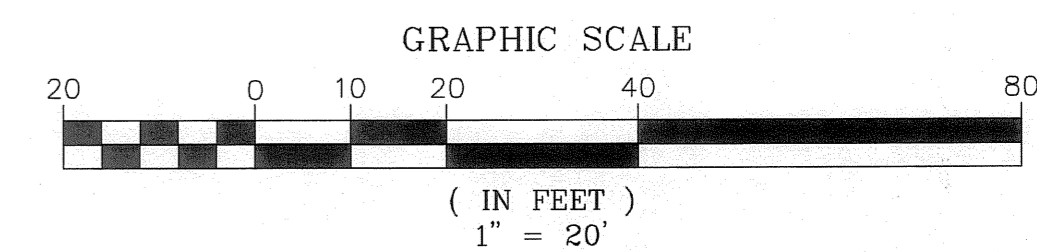
MATCH LINE - SEE SHEET C101



MATCHLINE (SEE SHEET LOWER LEFT)



LOCATION MAP NOT TO SCALE



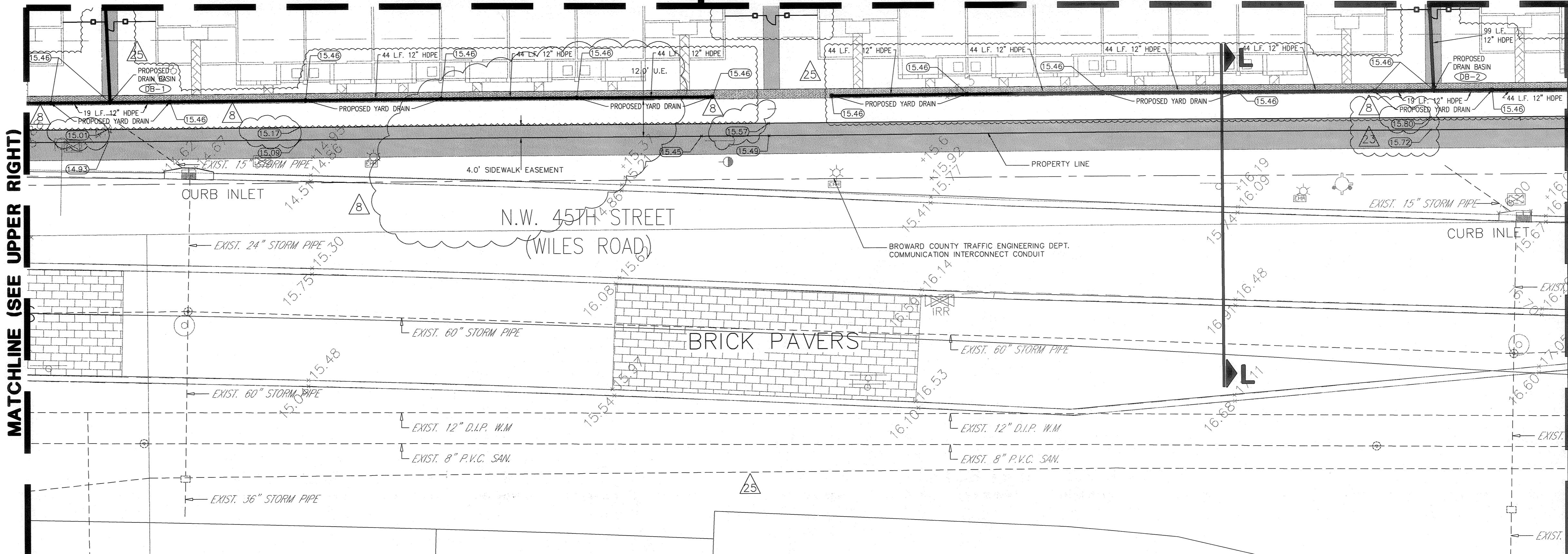
SUMMARY OF DRAINAGE STRUCTURES						
QTY	STR. NO.	DESCRIPTION	BARRELS (SIZE (INCHES))	LENGTH (LF)	TYPE	INVERT
1	DB-1	INLET PIPE	12	99	DRAIN BASIN	15.98 (+)12.00 N, (+)12.00 W, (+)12.00 E
1	DB-2	INLET PIPE	12	99	DRAIN BASIN	15.98 (+)12.00 N, (+)12.00 W, (+)12.00 E

MATCH LINE - SEE SHEET C102

MATCH LINE - SEE SHEET C101

LEGEND

- +0.00 EXISTING ELEVATION, FEET NGVD
- 0.00 PROP. ELEVATION, FEET NGVD
- ⊗ PROP. WATER VALVE
- ⊗ EXISTING WATER VALVE
- ⊕ PROP. FIRE HYDRANT
- ⊕ EXISTING FIRE HYDRANT
- ⊙ PROP. MANHOLE
- ⊙ EXISTING MANHOLE
- PROP. CATCH BASIN
- EXISTING CATCH BASIN
- ⊙ EXISTING POLE ANCHOR
- ⊙ CP EXISTING CONC. POLE
- ⊗ EHH EXISTING ELEC. BOX/ELEC. HANDHOLE
- ⊙ LP EXISTING LIGHT POLE
- ⊙ WPP EXISTING WOOD POWER POLE
- ▨ PROP. BUS PULLOUT
- ▨ PROP. TURN LANE
- ▨ PROP. SIDEWALK
- ▨ PROP. PAVERS



MATCHLINE (SEE UPPER RIGHT)

MATCHLINE (SEE SHEET C106)

PERMIT SET

MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS

NOTE: APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit For Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction In The Public Right Of Way.

NOTICE OF INSPECTION REQUIRED

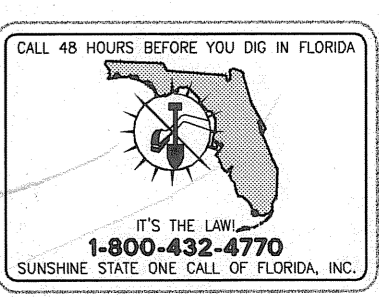
24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC RIGHT OF WAY CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

- PLAN CONSISTENT WITH PLAT REQUIREMENTS
- PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

DATE: _____

DOES NOT INCLUDE APPROVAL OF PRELIMINARY MARKINGS & SIGNS



NOTE: ALL EXISTING DRAINAGE STRUCTURES AND PIPING WITHIN THE SITE SHALL BE REMOVED AS PART OF THIS PROJECT.

THE CONTRACTOR IS TO REFER TO SHEET C503 FOR MOT NOTES.

NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
8	02-07-07	DEPICTED EASEMENT, REVISED GRADES PER BC COMMENTS	LCR				
9	05-10-07	MODIFIED LEGEND, ADDED SECTION T-T AND TYPE "E" CURB	NS				
11	06-04-07	RELOCATED 3 STREET LIGHTS TO SOUTH SIDE OF SIDEWALK	NS				
23	10-29-09	REVISED SIDEWALK AND SHALE GRADES	NS				
25	10-18-10	MODIFIED DRAINAGE PER SITE PLAN REVISION	LCR				

DESIGNED DATE: 8/2004 P.A.F.

DRAWN DATE: 8/2004 R.E.S.

CHECKED DATE: 8/2004 P.A.F.

GA Calvin, Giordano & Associates, Inc. EXCEPTIONAL SOLUTIONS

560 Village Boulevard, Suite 340 West Palm Beach, Florida 33409
 Phone: 561.684.6161 & Fax: 561.684.6360
 Certificate of Authorization 614

LENNAR HOMES PALOMA LAKES COCONUT CREEK, FLORIDA

WILES ROAD MODIFICATIONS

APPROVED PATRICK A. FIGURELLA, P.E. FLORIDA REGISTRATION No. 54795

SCALE: 1" = 20'

PROJECT No: 04-4780

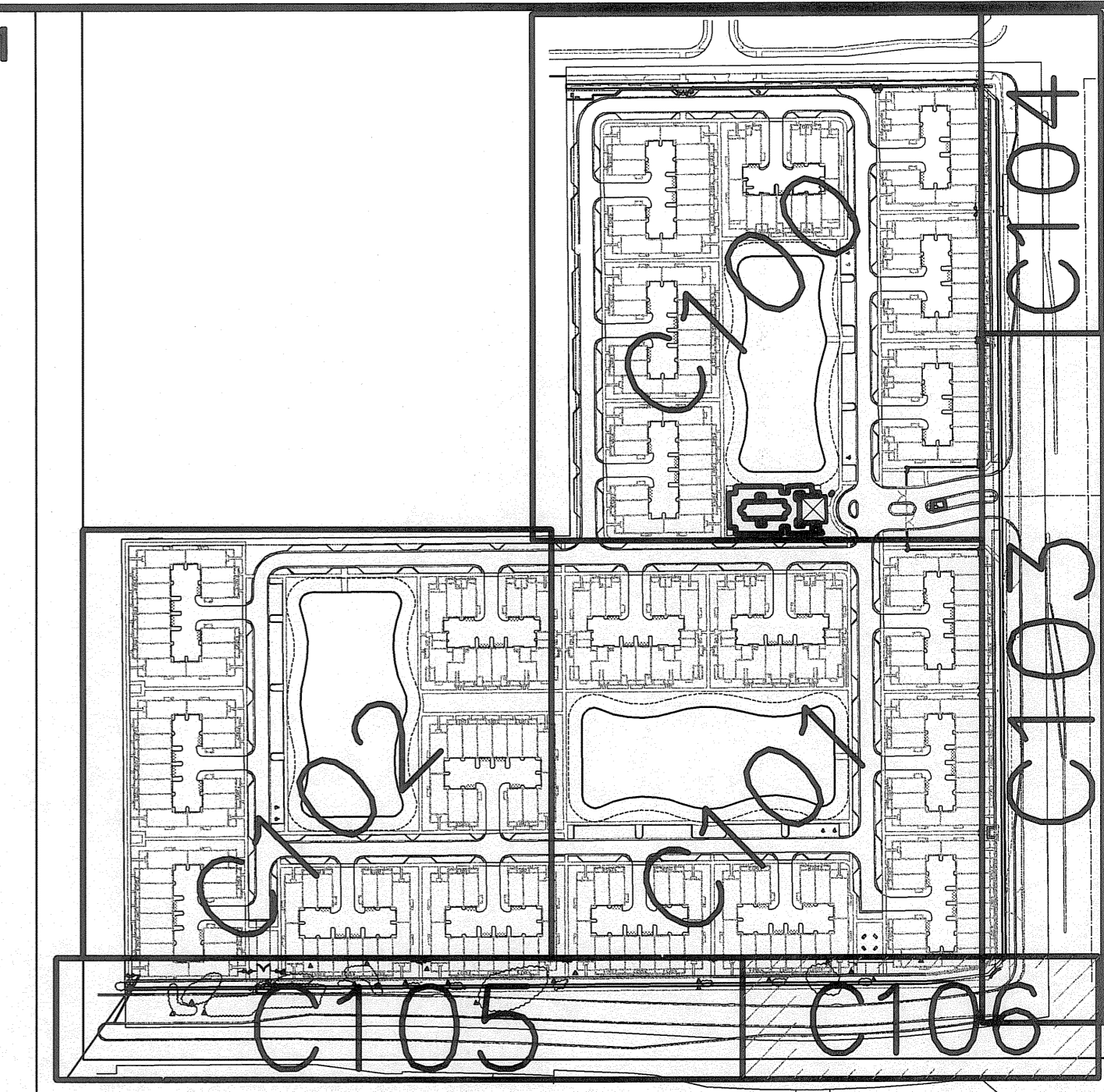
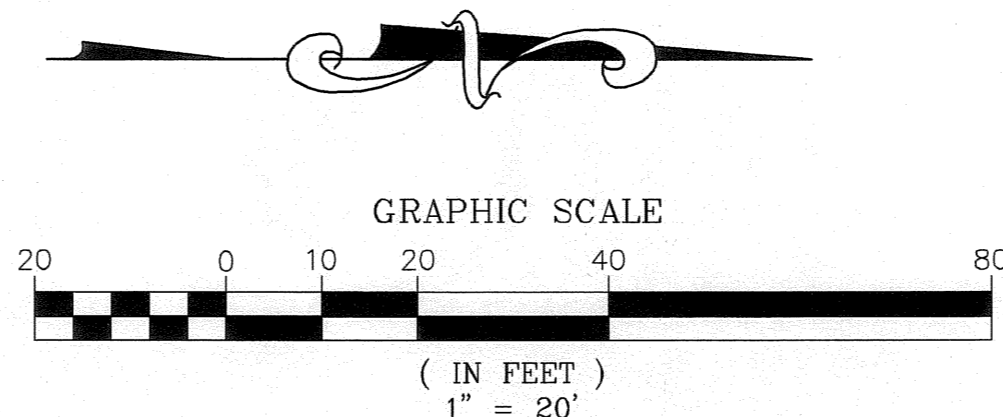
CAD FILE: 044780-C105-106-WILES.PLM

SHEET: C105

DATE: OCTOBER 18, 2010

LEGEND

- EXISTING ELEVATION, FEET NGVD
- PROP. ELEVATION, FEET NGVD
- PROP. WATER VALVE
- EXISTING WATER VALVE
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- EXISTING POLE ANCHOR
- EXISTING CONC. POLE
- EXISTING ELEC. BOX/ELEC. HANDHOLE
- EXISTING LIGHT POLE
- EXISTING WOOD POWER POLE
- PROPOSED BUS PULLOUT
- PROPOSED TURN LANE
- PROPOSED SIDEWALK
- PROPOSED PAVERS



LOCATION MAP NOT TO SCALE

NOTE: ALL EXISTING DRAINAGE STRUCTURES AND PIPING WITHIN THE SITE SHALL BE REMOVED AS PART OF THIS PROJECT. THE CONTRACTOR IS TO REFER TO SHEET C503 FOR MOT NOTES.

PERMIT SET
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NOTICE
INSPECTION REQUIRED

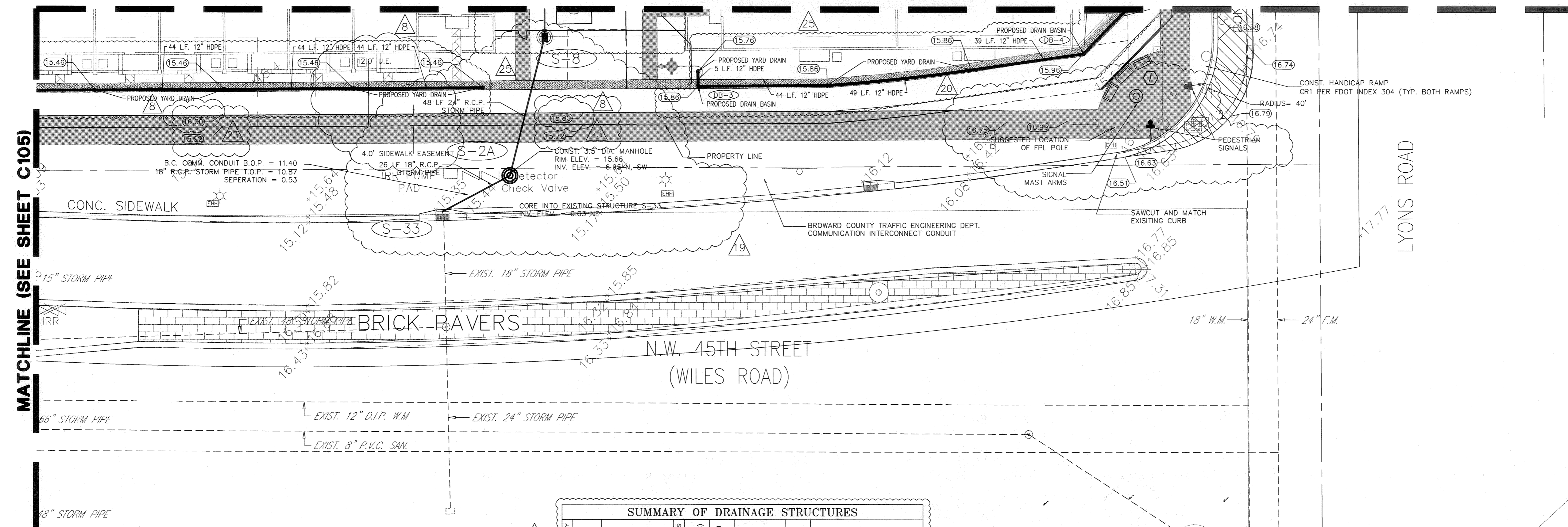
24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

- PLAN CONSISTENT WITH PLAT REQUIREMENTS
- PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY: _____ DATE: _____
DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKINGS & SIGNS

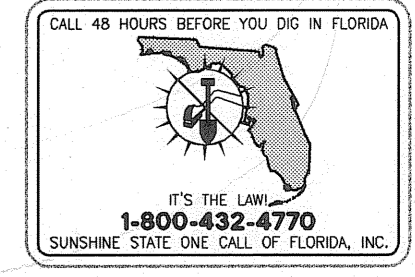
MATCH LINE - SEE SHEET C101



SUMMARY OF DRAINAGE STRUCTURES						
QUANTITY	STR. NO.	DESCRIPTION	BARRELS SIZE (INCHES)	LENGTH (FT)	TYPE	INVERT
1	DB-3	INLET PIPE	12	5	DRAIN BASIN	15.86 (+)12.00 N, (+)12.00 E
1	DB-4	INLET PIPE	12	39	DRAIN BASIN	15.98 (+)12.00 W, (+)12.00 NE

MATCHLINE (SEE SHEET C105)

APPROVED PATRICK A. FIGURELLA, P.E.
FLORIDA REGISTRATION No. 54795



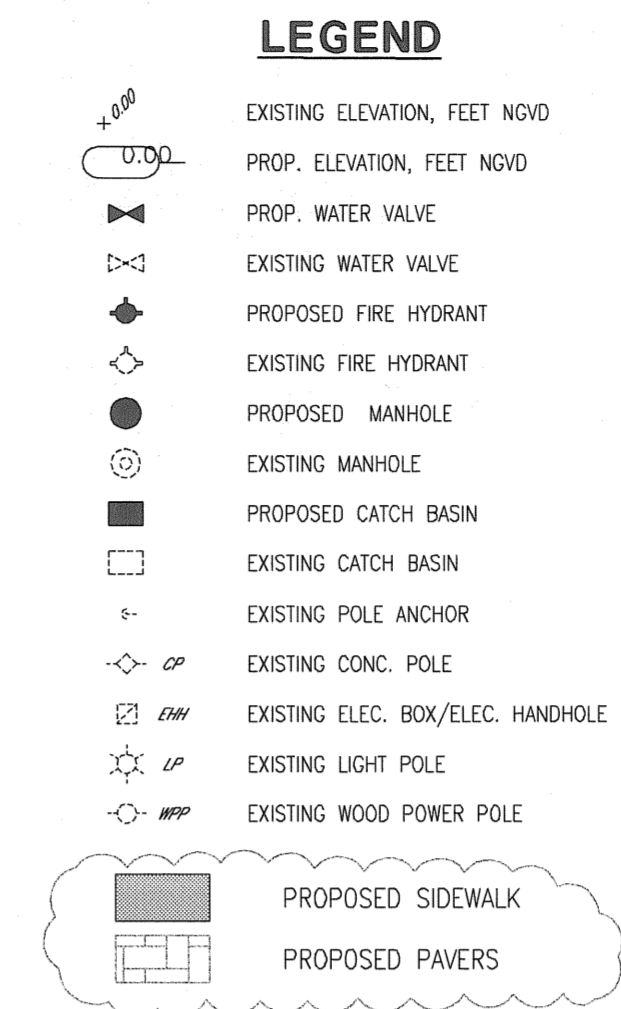
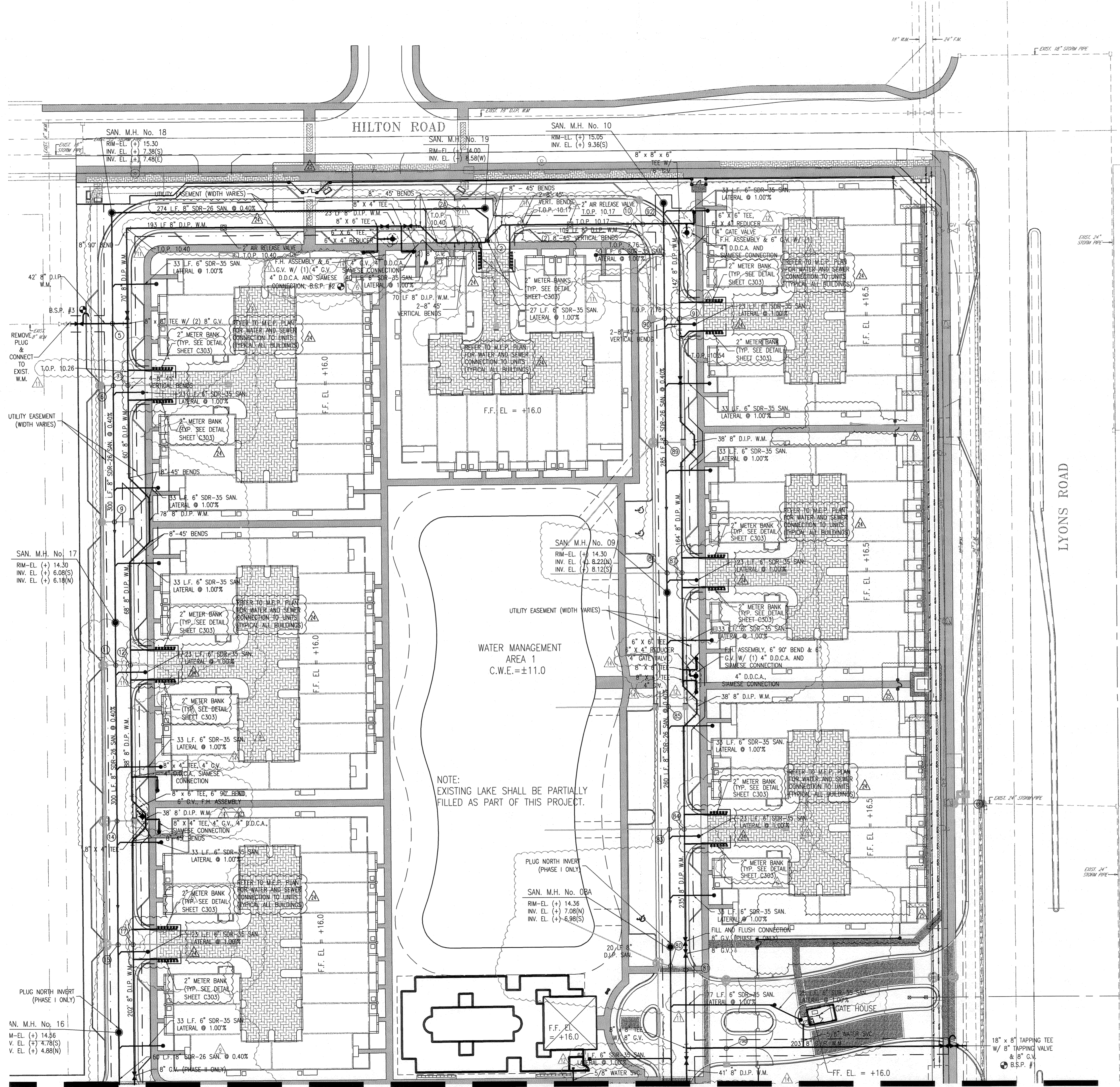
NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
8	02-07-07	DEPICTED EASEMENT, REVISED GRADES PER BC COMMENTS	LCR	25	10-18-10	MODIFIED DRAINAGE PER SITE PLAN REVISION	LCR
9	05-10-07	MODIFIED LEGEND	NS				
19	02-12-08	ADDED DRAINAGE STRUCTURE FOR WILES CONNECTION	NS				
20	06-20-08	MODIFIED SIDEWALK AT LYONS-WILES INTERSECTION	NS				
23	10-29-09	REVISED SIDEWALK AND SWALE GRADES	NS				

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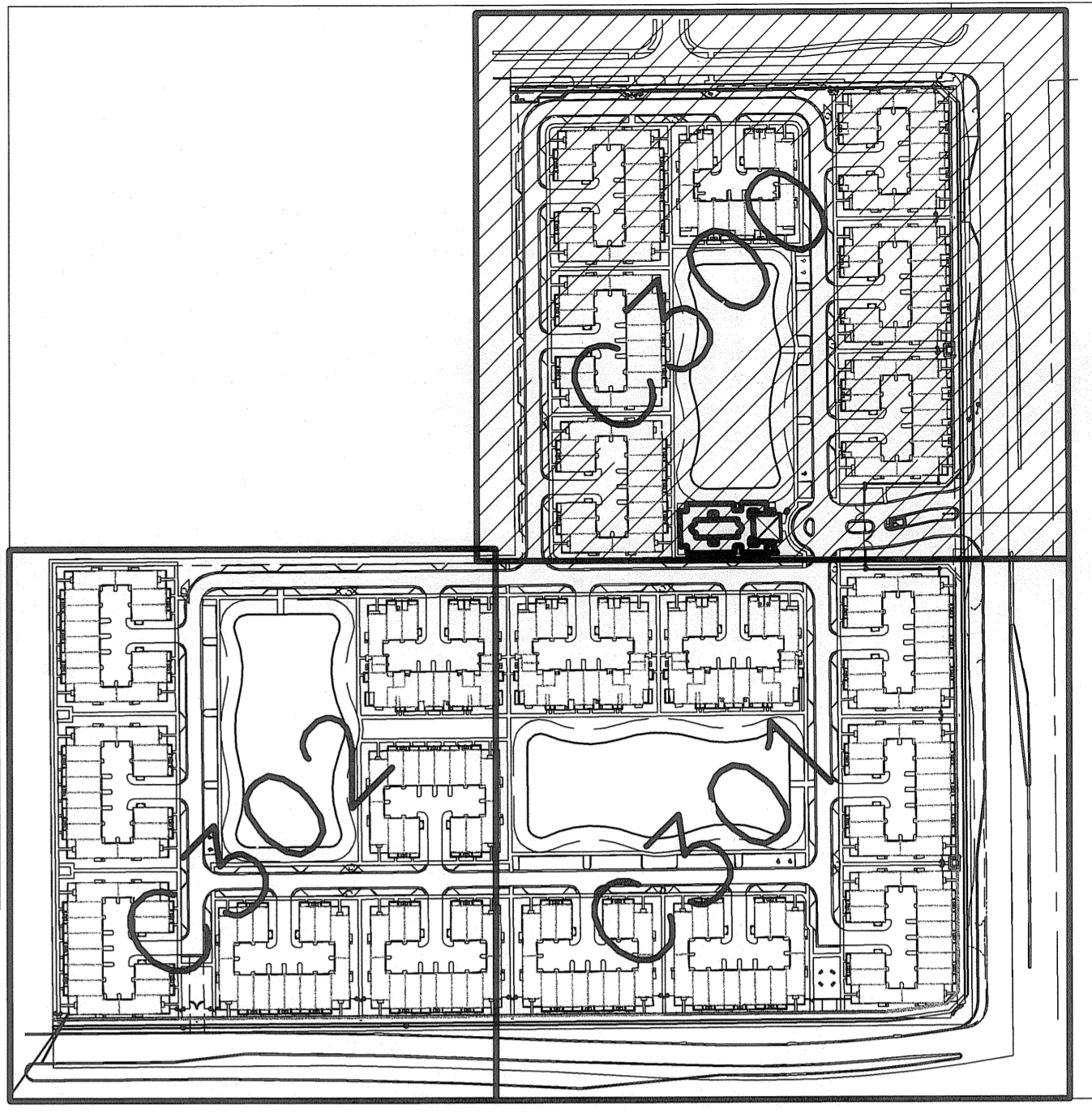
LENNAR HOMES
PALOMA LAKES
COCONUT CREEK, FLORIDA

WILES ROAD MODIFICATIONS

SCALE: 1" = 20'
PROJECT No: 04-4780
CAD FILE: 044780-C105-106-WILES PLN
DATE: OCTOBER 18, 2010
SHEET: **C106**

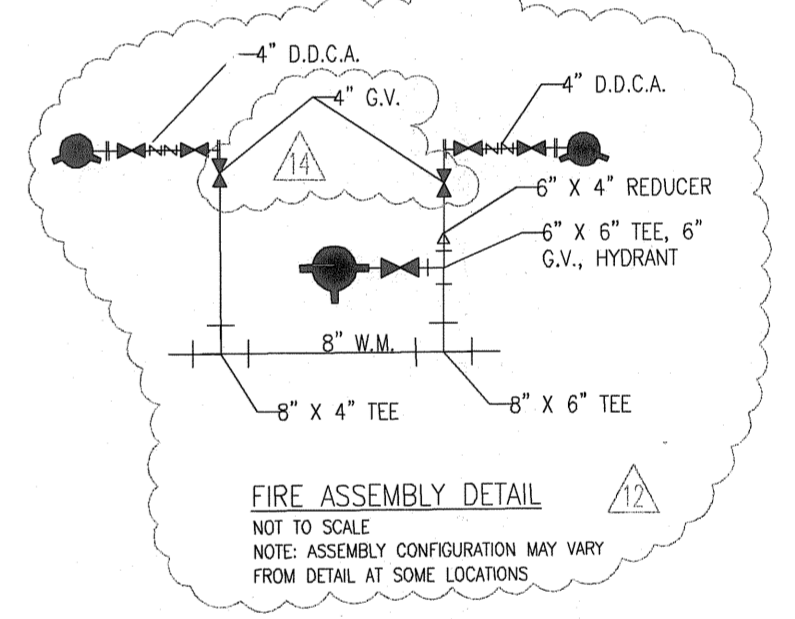


LOCATION MAP NOT TO SCALE

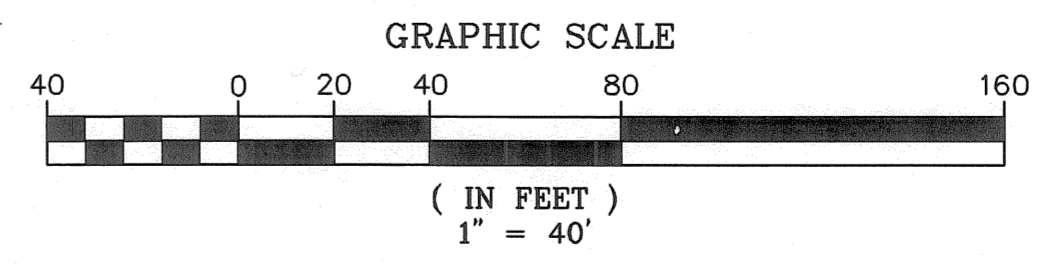


CONFLICT TABLE

No.	DESCRIPTION	No.	DESCRIPTION
		17	8" D.I.P. W.M. (B.O.P. 10.60) OVER 15" R.C.P. (T.O.P. 9.60) SEPARATION = 1.00
2	15" R.C.P. STORM (B.O.P. 10.28) OVER 8" D.I.P. W.M. (T.O.P. 8.76) SEPARATION = 1.52	18	30" R.C.P. STORM (B.O.P. 8.43) OVER 8" SDR-26 SAN. (T.O.P. 5.28) SEPARATION = 3.15
2A	15" R.C.P. STORM (B.O.P. 10.44) OVER 8" SDR-26 SAN. (T.O.P. 9.41) SEPARATION = 1.03	19	8" D.I.P. WATER MAIN (B.O.P. 10.62) OVER 15" R.C.P. STORM (T.O.P. 8.98) SEPARATION = 1.64
		20	8" SDR-26 SAN. (B.O.P. 7.10) OVER 30" R.C.P. STORM (T.O.P. 5.29) SEPARATION = 1.81
		21	8" D.I.P. WATER MAIN (B.O.P. 10.35) OVER 30" R.C.P. STORM (T.O.P. 5.24) SEPARATION = 5.06
5	8" D.I.P. WATER MAIN (B.O.P. 9.65) OVER 8" SDR-26 SAN. (T.O.P. 7.76) SEPARATION = 1.89	22	8" SDR-26 SAN. (B.O.P. 7.44) OVER 15" R.C.P. STORM (T.O.P. 6.44) SEPARATION = 1.00
6	15" R.C.P. STORM (B.O.P. 10.39) OVER 8" SDR-26 SAN. (T.O.P. 7.58) SEPARATION = 2.81	23	8" D.I.P. W.M. (B.O.P. 11.15) OVER 15" R.C.P. STORM (T.O.P. 6.47) SEPARATION = 4.68
7	15" R.C.P. STORM (B.O.P. 10.42) OVER 8" D.I.P. W.M. (T.O.P. 8.92) SEPARATION = 1.50	24	15" R.C.P. STORM (B.O.P. 10.02) OVER 8" SDR-26 SAN. (T.O.P. 8.60) SEPARATION = 1.42
9	15" R.C.P. STORM (B.O.P. 9.46) OVER 8" SDR-26 SAN. (T.O.P. 7.18) SEPARATION = 2.28	25	8" SDR-26 SAN. (B.O.P. 8.29) OVER 15" R.C.P. STORM (T.O.P. 7.29) SEPARATION = 1.00
10	18" R.C.P. STORM (B.O.P. 9.64) OVER 8" D.I.P. W.M. (T.O.P. 7.76) SEPARATION = 1.88	26	8" D.I.P. WATER MAIN (B.O.P. 10.40) OVER 15" R.C.P. STORM (T.O.P. 7.32) SEPARATION = 3.08
		27	8" D.I.P. SAN. (B.O.P. 10.11) OVER 8" D.I.P. WATER MAIN (T.O.P. 8.61) SEPARATION = 1.50
11	15" R.C.P. STORM (B.O.P. 9.01) OVER 8" SDR-26 SAN. (T.O.P. 6.66) SEPARATION = 2.35	28	15" R.C.P. STORM (B.O.P. 10.38) OVER 8" SDR-26 SAN. (T.O.P. 9.38) SEPARATION = 1.00
12	8" D.I.P. W.M. (B.O.P. 11.10) OVER 15" R.C.P. STORM (T.O.P. 10.45) SEPARATION = 0.65	29	15" R.C.P. STORM (B.O.P. 10.74) OVER 8" SDR-26 SAN. (T.O.P. 9.74) SEPARATION = 1.00
		30	15" R.C.P. STORM (B.O.P. 10.53) OVER 8" D.I.P. W.M. (T.O.P. 7.76) SEPARATION = 2.77
14	15" R.C.P. STORM (B.O.P. 9.57) OVER 8" SDR-26 SAN. (T.O.P. 6.21) SEPARATION = 3.36	31	8" D.I.P. W.M. (B.O.P. 11.00) OVER 8" D.I.P. SAN. (T.O.P. 10.00) SEPARATION = 1.00
15	15" R.C.P. STORM (B.O.P. 8.15) OVER 8" SDR-26 SAN. (T.O.P. 5.85) SEPARATION = 2.30	32	8" SDR-26 SAN. (B.O.P. 10.22) OVER 15" R.C.P. STORM (T.O.P. 8.88) SEPARATION = 1.34
		33	8" D.I.P. W.M. (B.O.P. 10.47) OVER 15" R.C.P. STORM (T.O.P. 8.97) SEPARATION = 1.50



- NOTE:
1. ALL EXISTING WATER LINES, SANITARY SEWER SYSTEMS, FORCE MAINS AND LIFT STATION WITHIN THE SITE SHALL BE REMOVED AS PART OF THIS PROJECT. UTILITIES, SUCH AS FPL, SHALL BE REMOVED OR RELOCATED. ALL EXISTING EASEMENTS WITHIN THE SITE SHALL BE ABANDONED.
 2. THE FINISH RIMS, INVERTS, AND ASPHALT GRADE ELEVATIONS SHALL NOT DEVIATE MORE THAN 0.10' FROM ORIGINAL DESIGN ELEVATIONS.
 3. TOP OF PIPE ELEVATION OF WATER MAIN EVERY 100 L.F. MUST BE PROVIDED ON AS-BUILT PLANS.
 4. LEAKAGE TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROCEDURE FOR RECOMMENDED PRACTICE FOR LOW PRESSURE AIR TESTING OF INSTALLED SEWER PIPE BY UNI-BELL PIPE ASSOCIATION (LATEST EDITION) OR EQUIVALENT.
 5. NO VALVES, METERS, FIRE HYDRANTS, CLEANOUTS, MANHOLES, OR OTHER UTILITY APPURTENANCES ARE TO BE PLACED IN, OR ADJACENT TO, SIDEWALKS, CURBS, PARKING SPACES OR OTHER SUCH SITE FEATURES SO AS TO PRESENT A HAZARD OR RESTRICT THE MAINTENANCE OR OPERATION OF THE UTILITY INFRASTRUCTURE.
 6. A HYDROSTATIC TEST SHALL BE PERFORMED AT 150 PSI FOR NOT LESS THAN TWO (2) HOURS. TEST SECTIONS SHALL NOT EXCEED 2000 L.F. AND SHALL MEET AWWA SPECIFICATIONS. THIS TEST SHALL NOT BE PERFORMED UNTIL THE CITY HAS RECEIVED AND APPROVED AS-BUILT DRAWINGS AND THE TRENCHES HAVE BEEN BACKFILLED AND PROPERLY COMPACTED.
 7. SEWER MANHOLES SHALL RECEIVE TWO (2) COATS OF KOPPERS 300-M OR POLYMER COATING, ONE (1) RED AND ONE (1) BLACK, INSIDE AND OUTSIDE.
 8. THE DISTANCE FROM THE DOUBLE DETECTOR CHECK VALVE TO THE BUILDINGS IS LESS THAN 50'.



MATCH LINE - SEE SHEET C301

NO.	DATE	REVISION	BY	NO.	DATE	REVISION	BY
5	12-06-06	SEWER REVISIONS PER BROWARD COUNTY EPD COMMENTS	NS	12	6-27-07	ADDED WATER AND SEWER SERVICE TO CLUBHOUSE, REVISED	NS
6	01-04-07	ADDED SAMPLE POINTS AND SPECIFICATIONS	NS			FIRE ASSEMBLIES, RELOCATED 8" W.M. & CONNECTION	NS
9	04-04-07	REVISIONS TO ENTRANCE, WATER AND SEWER PER LENNAR	NS	14	9-25-07	ADDED 4" GATE VALVES ON FIRE LINES	NS
11	06-04-07	REMOVED 2 MANHOLES, SAN. MAIN, VERTICAL W.M. BENDS AND	NS	24	05-25-10	MODIFICATION TO WATER AND SEWER SERVICE CONNECTIONS	NS
		ADDED AIR RELEASE VALVES		25	10-18-10	ADDED BERM, PRIVACY FENCE AND YARD DRAINS	LCR

GA **Calvin, Giordano & Associates, Inc.**
 EXCEPTIONAL SOLUTIONS
 560 Village Boulevard, Suite 340 West Palm Beach, Florida 33409
 Phone: 561.684.6161 & Fax: 561.684.6360
 Certificate of Authorization 514

LENNAR HOMES
PALOMA LAKES
COCONUT CREEK, FLORIDA

WATER & SEWER PLAN

APPROVED: PATRICK A. FIGURELLA, P.E.
 FLORIDA REGISTRATION No. 54795

SCALE: 1" = 40'

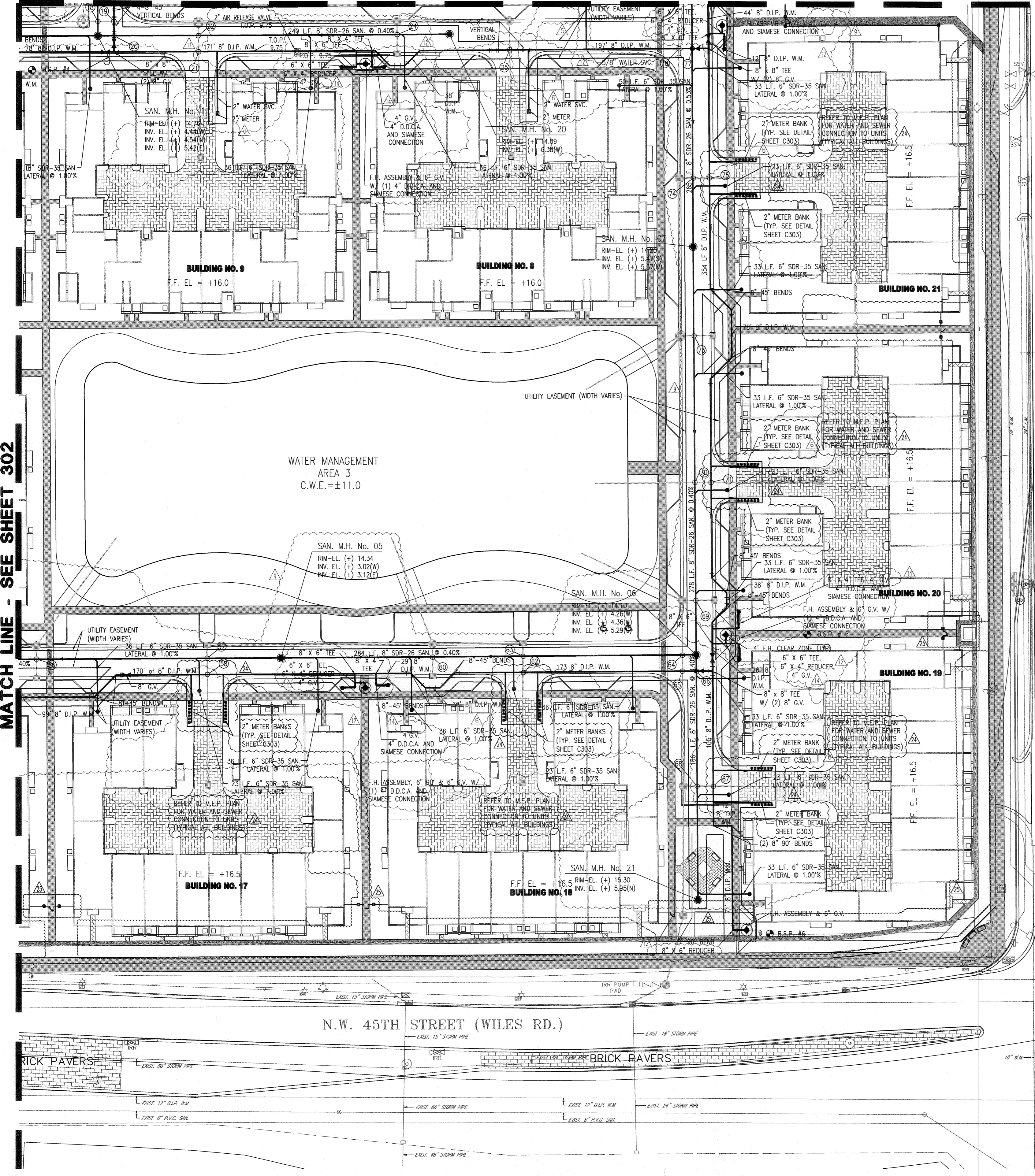
PROJECT No: 04-4780

CAD FILE: 044780-C300-302-WSR-PLN_QF

SHEET: **C300**

DATE: OCTOBER 18, 2010

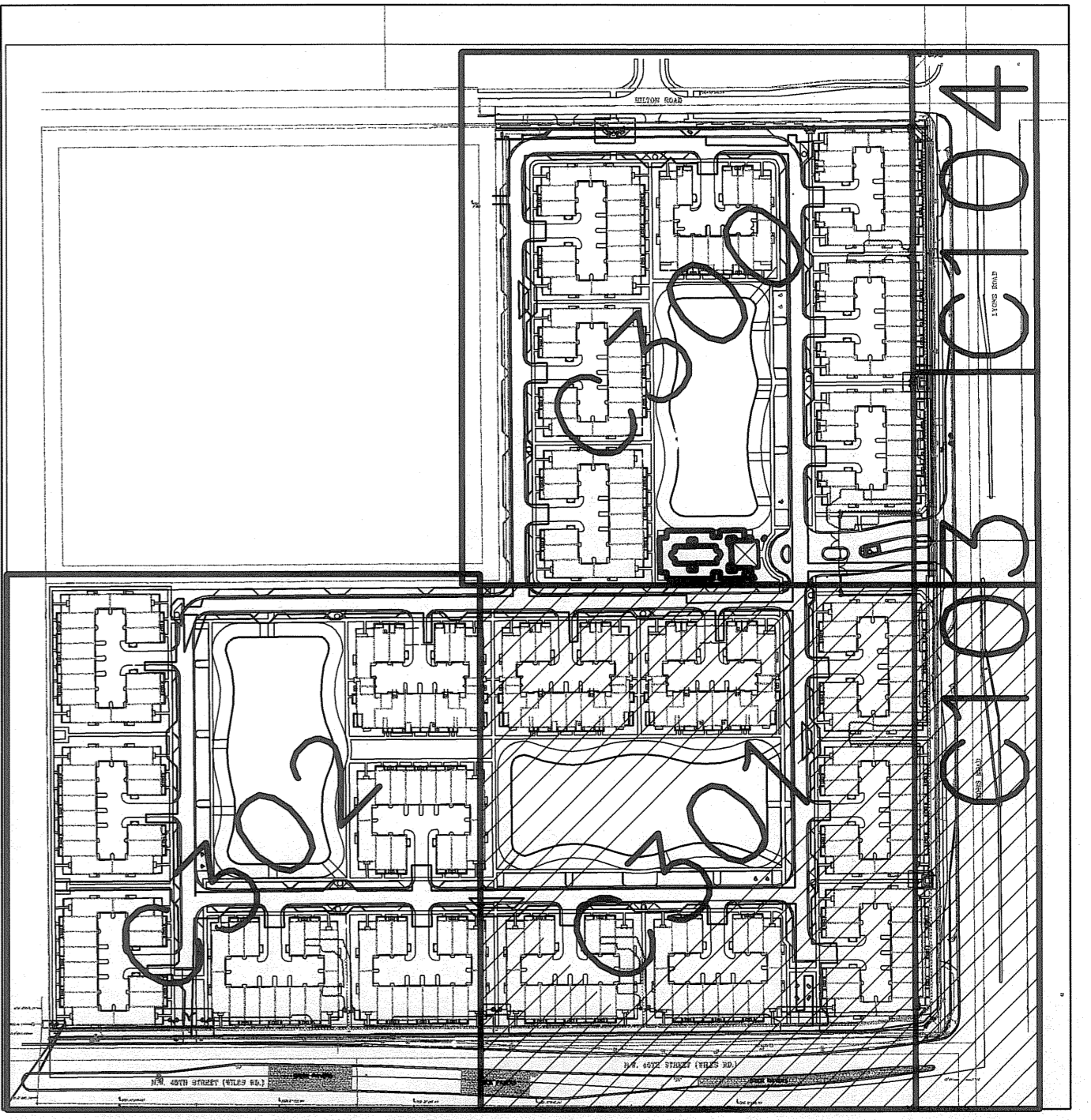
MATCH LINE - SEE SHEET C300



LEGEND

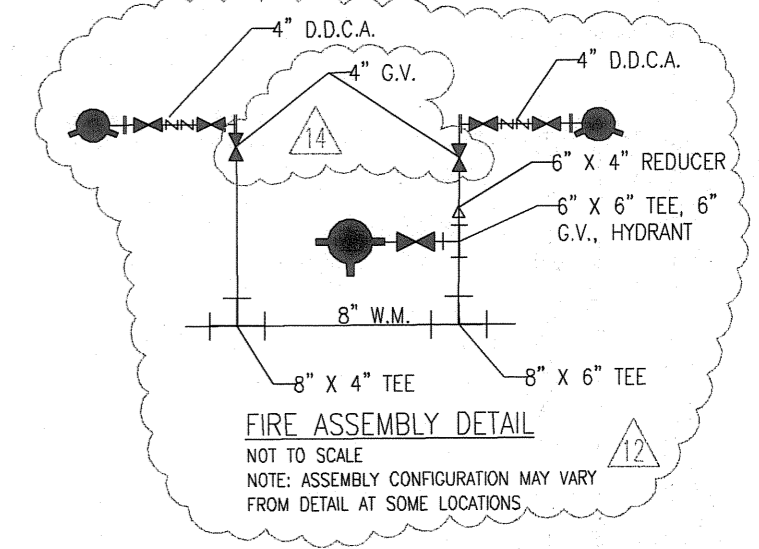
- EXISTING ELEVATION, FEET NGVD
- PROP. ELEVATION, FEET NGVD
- PROP. WATER VALVE
- EXISTING WATER VALVE
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- EXISTING POLE ANCHOR
- EXISTING CONC. POLE
- EXISTING ELEC. BOX/ELEC. HANDHOLE
- EXISTING LIGHT POLE
- EXISTING WOOD POWER POLE
- PROPOSED BACTERIOLOGICAL SAMPLE POINT
- PROPOSED SIDEWALK
- PROPOSED PAVERS

LOCATION MAP NOT TO SCALE



CONFLICT TABLE

No.	DESCRIPTION	No.	DESCRIPTION
18	30" R.C.P. STORM (B.O.P. 8.43) OVER 8" SDR-26 SAN. (T.O.P. 4.58) SEPARATION = 3.85	63	15" R.C.P. STORM (B.O.P. 7.84) OVER 8" SDR-26 SAN. (T.O.P. 4.49) SEPARATION = 3.35
19	30" R.C.P. STORM (B.O.P. 8.55) OVER 8" D.I.P. W.M. (T.O.P. 7.05) SEPARATION = 1.50	64	24" R.C.P. STORM (B.O.P. 6.25) OVER 8" SDR-26 SAN. (T.O.P. 4.96) SEPARATION = 1.29
20	8" D.I.P. WATER MAIN (B.O.P. 10.97) OVER 8" SDR-26 SAN. (T.O.P. 5.29) SEPARATION = 4.81	65	8" D.I.P. W.M. (B.O.P. 10.35) OVER 24" R.C.P. STORM (T.O.P. 8.75) SEPARATION = 1.60
21	8" D.I.P. W.M. (B.O.P. 11.05) OVER 15" R.C.P. STORM (T.O.P. 9.55) SEPARATION = 1.50	66	8" D.I.P. WATER MAIN (B.O.P. 10.35) OVER 8" SDR-26 SAN. (T.O.P. 6.04) SEPARATION = 4.31
22	15" R.C.P. STORM (B.O.P. 7.70) OVER 8" SDR-26 SAN. (T.O.P. 6.40) SEPARATION = 1.30	67	8" D.I.P. WATER MAIN (B.O.P. 11.29) OVER 15" R.C.P. STORM (T.O.P. 9.51) SEPARATION = 1.78
23	15" R.C.P. STORM (B.O.P. 7.70) OVER 8" SDR-26 SAN. (T.O.P. 6.40) SEPARATION = 1.30	68	15" R.C.P. STORM (B.O.P. 7.85) OVER 8" SDR-26 SAN. (T.O.P. 6.35) SEPARATION = 1.50
24	15" R.C.P. STORM (B.O.P. 10.11) OVER 8" SDR-26 SAN. (T.O.P. 6.94) SEPARATION = 3.17	69	15" R.C.P. STORM (B.O.P. 10.02) OVER 8" SDR-26 SAN. (T.O.P. 5.22) SEPARATION = 4.80
25	15" R.C.P. STORM (B.O.P. 10.33) OVER 8" D.I.P. W.M. (T.O.P. 8.83) SEPARATION = 1.50	70	15" R.C.P. STORM (B.O.P. 7.20) OVER 8" SDR-26 SAN. (T.O.P. 5.54) SEPARATION = 1.66
26	15" R.C.P. STORM (B.O.P. 9.75) OVER 8" SDR-26 SAN. (T.O.P. 3.06) SEPARATION = 6.69	71	8" D.I.P. WATER MAIN (B.O.P. 10.40) OVER 15" R.C.P. STORM (T.O.P. 8.90) SEPARATION = 1.50
27	15" R.C.P. STORM (B.O.P. 7.80) OVER 8" SDR-26 SAN. (T.O.P. 3.53) SEPARATION = 4.27	72	15" R.C.P. STORM (B.O.P. 7.73) OVER 8" SDR-26 SAN. (T.O.P. 6.53) SEPARATION = 1.20
28	8" D.I.P. WATER MAIN (B.O.P. 11.09) OVER 15" R.C.P. STORM (T.O.P. 9.47) SEPARATION = 1.62	73	8" D.I.P. WATER MAIN (B.O.P. 10.91) OVER 15" R.C.P. STORM (T.O.P. 9.41) SEPARATION = 1.50
29	15" R.C.P. STORM (B.O.P. 10.02) OVER 8" SDR-26 SAN. (T.O.P. 4.25) SEPARATION = 5.77	74	8" D.I.P. WATER MAIN (B.O.P. 10.45) OVER 8" SDR-26 SAN. (T.O.P. 8.87) SEPARATION = 1.58
30	8" D.I.P. WATER MAIN (B.O.P. 11.15) OVER 15" R.C.P. STORM (T.O.P. 9.50) SEPARATION = 1.65	75	8" D.I.P. WATER MAIN (B.O.P. 10.87) OVER 8" SDR-26 SAN. (T.O.P. 7.00) SEPARATION = 3.87
		76	8" D.I.P. WATER MAIN (B.O.P. 10.75) OVER 30" R.C.P. STORM (T.O.P. 8.29) SEPARATION = 2.46
		77	24" D.I.P. SEWER MAIN (B.O.P. 8.85) OVER 18" R.C.P. STORM (T.O.P. 7.35) SEPARATION = 1.50

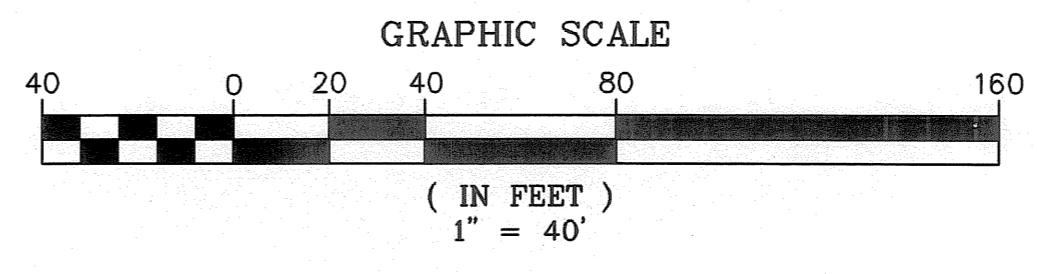


- NOTE:
- ALL EXISTING WATER LINES, SANITARY SEWER SYSTEMS, FORCE MAINS AND LIFT STATION WITHIN THE SITE SHALL BE REMOVED AS PART OF THIS PROJECT. UTILITIES, SUCH AS FPL, SHALL BE REMOVED OR RELOCATED. ALL EXISTING EASEMENTS WITHIN THE SITE SHALL BE ABANDONED.
 - THE FINISH RIMS, INVERTS, AND ASPHALT GRADE ELEVATIONS SHALL NOT DEVIATE MORE THAN 0.10' FROM ORIGINAL DESIGN ELEVATIONS.
 - TOP OF PIPE ELEVATION OF WATER MAIN EVERY 100 LF. MUST BE PROVIDED ON AS-BUILT PLANS.
 - LEAKAGE TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROCEDURE FOR RECOMMENDED PRACTICE FOR LOW PRESSURE AIR TESTING OF INSTALLED SEWER PIPE BY UNI-BELL PIPE ASSOCIATION (LATEST EDITION) OR EQUIVALENT.
 - NO VALVES, METERS, FIRE HYDRANTS, CLEANOUTS, MANHOLES, OR OTHER UTILITY APPURTENANCES ARE TO BE PLACED IN, OR ADJACENT TO, SIDEWALKS, CURBS, PARKING SPACES OR OTHER SUCH SITE FEATURES SO AS TO PRESENT A HAZARD OR RESTRICT THE MAINTENANCE OR OPERATION OF THE UTILITY INFRASTRUCTURE.
 - A HYDROSTATIC TEST SHALL BE PERFORMED AT 150 PSI FOR NOT LESS THAN TWO (2) HOURS. TEST SECTIONS SHALL NOT EXCEED 2000 LF. AND SHALL MEET ANNA SPECIFICATIONS. THIS TEST SHALL NOT BE PERFORMED UNTIL THE CITY HAS RECEIVED AND APPROVED AS-BUILT DRAWINGS AND THE TRENCHES HAVE BEEN BACKFILLED AND PROPERLY COMPACTED.
 - SEWER MANHOLES SHALL RECEIVE TWO (2) COATS OF KOPPERS 300-M OF POLYMER COATING, ONE (1) RED AND ONE (1) BLACK, INSIDE AND OUTSIDE.
 - THE DISTANCE FROM THE DOUBLE DETECTOR CHECK VALVE TO THE BUILDINGS IS LESS THAN 50'.

MATCH LINE - SEE SHEET 302

LYONS ROAD

N.W. 45TH STREET (WILES RD.)



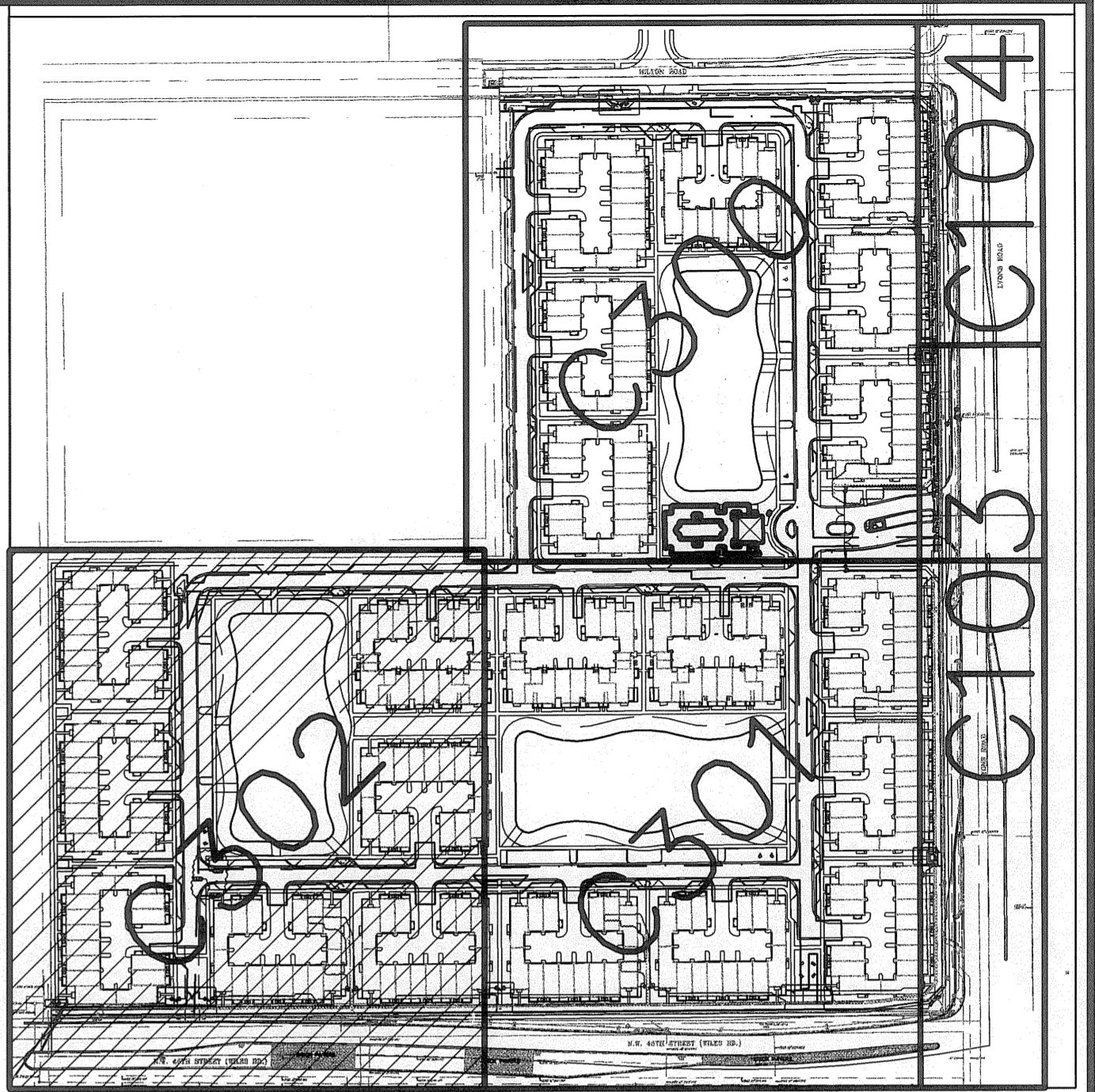
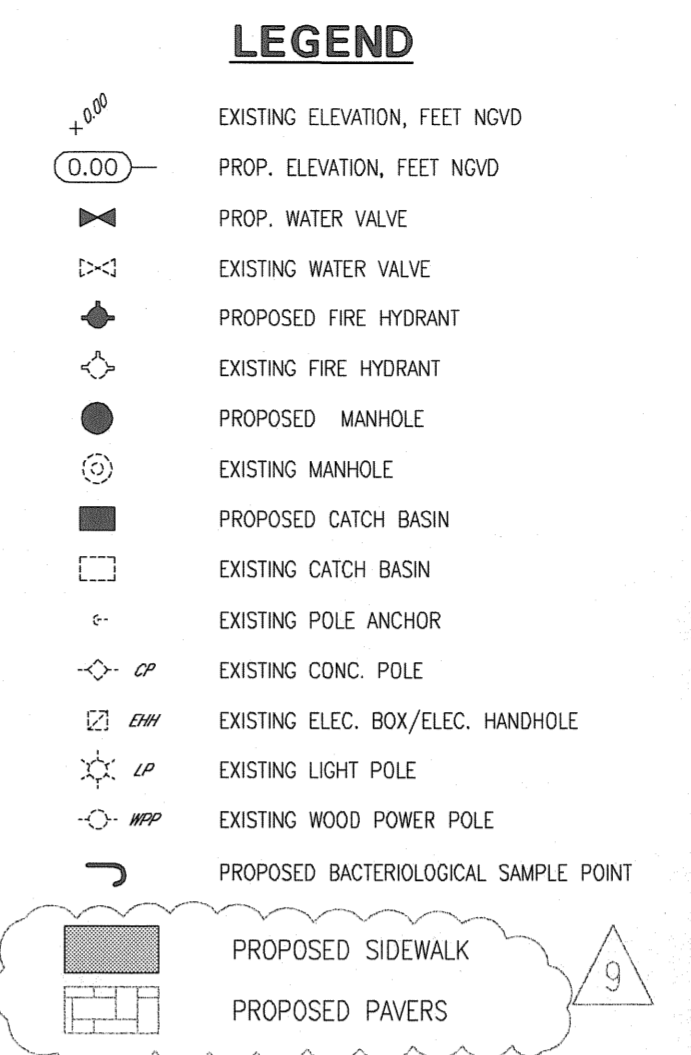
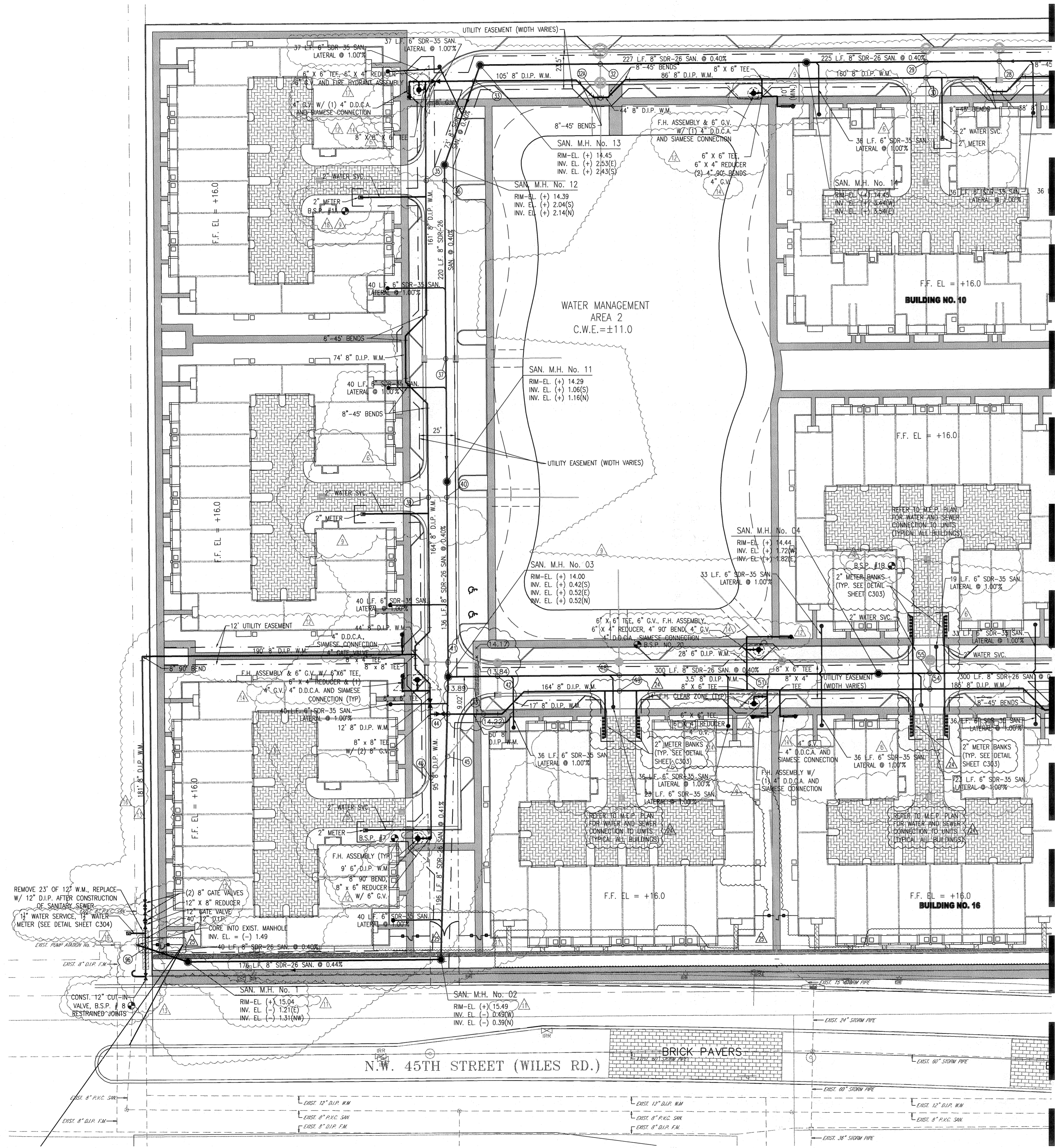
NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
5	12-06-06	SEWER REVISIONS PER BROWARD COUNTY EPD COMMENTS	NS	12	6-27-07	ADDED WATER AND SEWER SERVICE TO CLUBHOUSE, REVISED FIRE ASSEMBLIES	NS
6	01-04-07	ADDED SAMPLE POINTS AND SPECIFICATIONS	NS	14	9-25-07	ADDED 4" GATE VALVES ON FIRE LINES	NS
9	04-04-07	REVISIONS TO ENTRANCE, WATER AND SEWER PER LENNAR	NS	24	05-25-10	MODIFICATION TO WATER AND SEWER SERVICE CONNECTIONS	NS
11	06-04-07	REMOVED 2 MANHOLES, SAN. MAIN, VERTICAL W.M. BENDS AND ADDED AIR RELEASE VALVES	NS	25	10-18-10	ADDED BERM, PRIVACY FENCE AND YARD DRAINS	LCR

Calvin, Giordano & Associates, Inc.
 EXCEPTIONAL SOLUTIONS
 560 Village Boulevard, Suite 340 West Palm Beach, Florida 33409
 Phone: 561.684.6161 & Fax: 561.684.6360
 Certificate of Authorization 514

LENNAR HOMES
PALOMA LAKES
COCONUT CREEK, FLORIDA

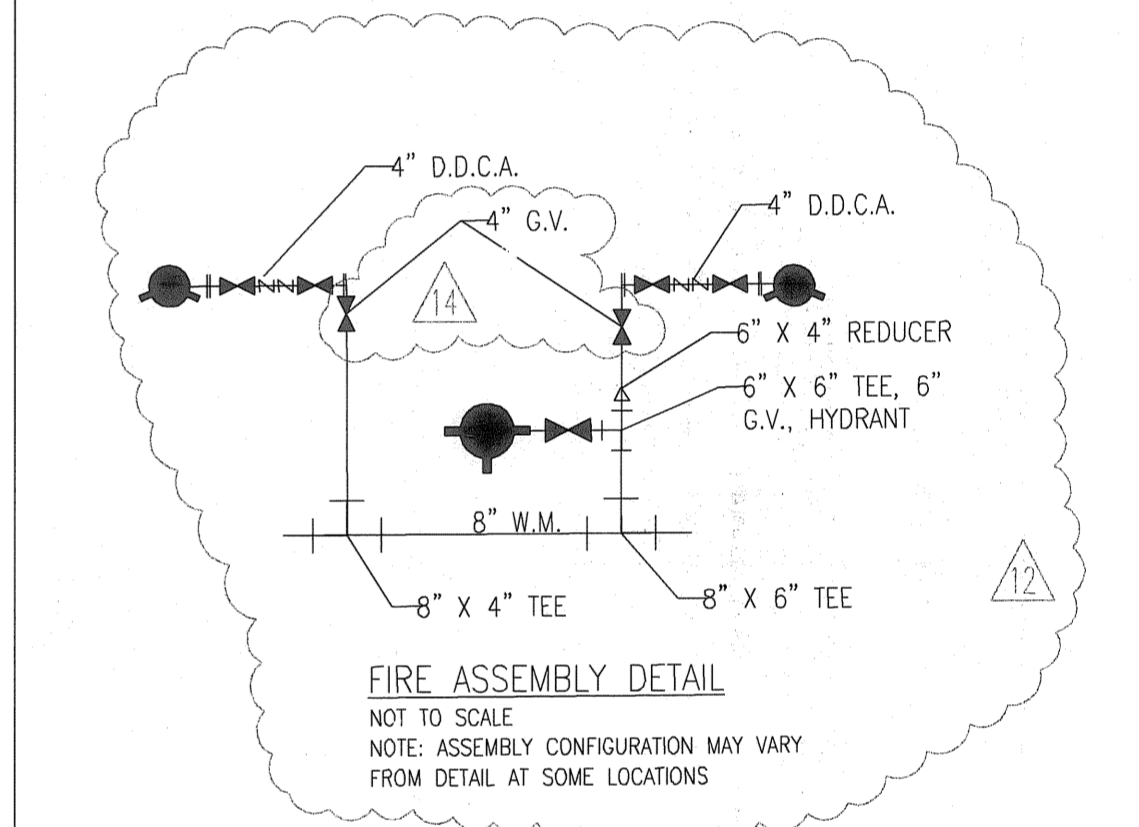
WATER & SEWER PLAN

APPROVED PATRICK A. FIGURELLA, P.E.
 FLORIDA REGISTRATION No. 54795
 SCALE 1" = 40'
 PROJECT No. 04-4780
 CAD FILE
 DATE: OCTOBER 18, 2010
 SHEET C301

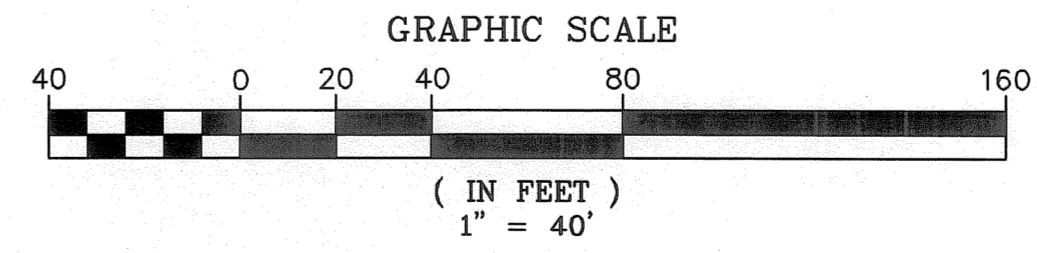


MATCH LINE - SEE SHEET 301

CONFLICT TABLE			
No.	DESCRIPTION	No.	DESCRIPTION
28	15" R.C.P. STORM (B.O.P. 10.01) OVER 8" SDR-26 SAN. (T.O.P. 4.76) SEPARATION = 5.25	42	18" R.C.P. STORM (B.O.P. 7.19) OVER 8" SDR-26 SAN. (T.O.P. 1.37) SEPARATION = 5.82
29	15" R.C.P. STORM (B.O.P. 7.54) OVER 8" SDR-26 SAN. (T.O.P. 4.58) SEPARATION = 2.96	43	8" D.I.P. WATER MAIN (B.O.P. 10.85) OVER 15" R.C.P. STORM (T.O.P. 9.18) SEPARATION = 1.67
30	8" D.I.P. WATER MAIN (B.O.P. 10.73) OVER 15" R.C.P. STORM (T.O.P. 9.22) SEPARATION = 1.51	44	8" D.I.P. WATER MAIN (B.O.P. 10.30) OVER 8" SDR-26 SAN. (T.O.P. 1.03) SEPARATION = 9.27
32	42" R.C.P. STORM (B.O.P. 7.11) OVER 8" SDR-26 SAN. (T.O.P. 3.57) SEPARATION = 3.54	45	15" R.C.P. STORM (B.O.P. 7.66) OVER 15" R.C.P. STORM (T.O.P. 0.90) SEPARATION = 6.76
34	8" D.I.P. WATER MAIN (B.O.P. 10.55) OVER 42" R.C.P. STORM (T.O.P. 9.03) SEPARATION = 1.52	46	8" D.I.P. WATER MAIN (B.O.P. 10.85) OVER 15" R.C.P. STORM (T.O.P. 9.35) SEPARATION = 1.50
33	8" D.I.P. WATER MAIN (B.O.P. 10.61) OVER 8" SDR-26 SAN. (T.O.P. 3.10) SEPARATION = 7.51	48	15" R.C.P. STORM (B.O.P. 7.79) OVER 8" SDR-26 SAN. (T.O.P. 1.71) SEPARATION = 6.08
35	8" D.I.P. WATER MAIN (B.O.P. 10.98) OVER 15" R.C.P. STORM (T.O.P. 9.46) SEPARATION = 1.52	49	8" D.I.P. WATER MAIN (B.O.P. 10.85) OVER 15" R.C.P. STORM (T.O.P. 9.31) SEPARATION = 1.54
36	15" R.C.P. STORM (B.O.P. 7.78) OVER 8" SDR-26 SAN. (T.O.P. 2.71) SEPARATION = 5.07	51	6" D.I.P. WATER MAIN (B.O.P. 10.87) OVER 8" SDR-26 SAN. (T.O.P. 2.10) SEPARATION = 8.77
37	15" R.C.P. STORM (B.O.P. 7.36) OVER 8" SDR-26 SAN. (T.O.P. 2.21) SEPARATION = 5.15	54	8" D.I.P. WATER MAIN (B.O.P. 10.87) OVER 15" R.C.P. STORM (T.O.P. 9.20) SEPARATION = 1.67
39	8" D.I.P. WATER MAIN (B.O.P. 10.95) OVER 15" R.C.P. STORM (T.O.P. 9.41) SEPARATION = 1.53	55	15" R.C.P. STORM (B.O.P. 7.55) OVER 8" SDR-26 SAN. (T.O.P. 2.88) SEPARATION = 4.67
40	15" R.C.P. STORM (B.O.P. 7.78) OVER 8" SDR-26 SAN. (T.O.P. 1.73) SEPARATION = 6.03	56	12" D.I.P. WATER MAIN (B.O.P. 9.65) OVER 8" SDR-26 SAN. (T.O.P. -0.71) SEPARATION = 10.36
41	15" R.C.P. STORM (B.O.P. 10.02) OVER 8" SDR-26 SAN. (T.O.P. 1.26) SEPARATION = 8.76		



- NOTE:
- ALL EXISTING WATER LINES, SANITARY SEWER SYSTEMS, FORCE MAINS AND LIFT STATION WITHIN THE SITE SHALL BE REMOVED AS PART OF THIS PROJECT. UTILITIES, SUCH AS F.P., SHALL BE REMOVED OR RELOCATED. ALL EXISTING EASEMENTS WITHIN THE SITE SHALL BE ABANDONED.
 - THE FINISH RIMS, INVERTS, AND ASPHALT GRADE ELEVATIONS SHALL NOT DEVIATE MORE THAN 0.10' FROM ORIGINAL DESIGN ELEVATIONS.
 - TOP OF PIPE ELEVATION OF WATER MAIN EVERY 100 L.F. MUST BE PROVIDED ON AS-BUILT PLANS.
 - LEAKAGE TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROCEDURE FOR RECOMMENDED PRACTICE FOR LOW PRESSURE AIR TESTING OF INSTALLED SEWER PIPE BY UN-BELL PIPE ASSOCIATION (LATEST EDITION) OR EQUIVALENT.
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 - A HYDROSTATIC TEST SHALL BE PERFORMED AT 150 PSI FOR NOT LESS THAN TWO (2) HOURS. TEST SECTIONS SHALL NOT EXCEED 2000 L.F. AND SHALL MEET AWWA SPECIFICATIONS. THIS TEST SHALL NOT BE PERFORMED UNTIL THE CITY HAS RECEIVED AND APPROVED AS-BUILT DRAWINGS AND THE TRENCHES HAVE BEEN BACKFILLED AND PROPERLY COMPACTED.
 - SEWER MANHOLES SHALL RECEIVE TWO (2) COATS OF KOPPERS 300-M OF POLYMER COATING, ONE (1) RED AND ONE (1) BLACK, INSIDE AND OUTSIDE.
 - THE DISTANCE FROM THE DOUBLE DETECTOR CHECK VALVE TO THE BUILDINGS IS LESS THAN 50'.



NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
6	01-04-07	ADDED SAMPLE POINTS AND SPECIFICATIONS	NS	25	10-18-10	ADDED BERM, PRIVACY FENCE AND YARD DRAINS	LCR
9	04-04-07	REVISED W.M. CONNECTION AT S.W. CORNER OF SITE	NS				
11	06-04-07	ADDED 4" GATE VALVES ON FIRE LINES	NS	14	9-25-07	ADDED 12" W.M. AND G.V. PER CITY OF COCONUT CREEK	NS
12	06-27-07	MOVED MH02 5' EAST, REALIGNED WATER MAIN NEAR MH02	NS	16	11-01-07	ADDED 12" W.M. AND G.V. PER CITY OF COCONUT CREEK	NS
13	08-31-07	REVISED FIRE ASSEMBLIES, RELOCATED 8" W.M.	NS	18	3-20-08	ADDED SAMPLE POINTS 1A AND 1B	NS
		REVISED LOCATION, RIM AND INVERTS OF M.H. No. 1,	NS	24	5-25-10	MODIFICATION OF WATER AND SEWER SERVICE CONNECTIONS	NS
		REVISION	BY				

DESIGNED DATE 8/2004
 DRAWN DATE 07/2004
 CHECKED DATE 8/2004

Calvin, Giordano & Associates, Inc.
 EXCEPTIONAL SOLUTIONS
 560 Village Boulevard, Suite 340 West Palm Beach, Florida 33409
 Phone: 561.684.6161 & Fax: 561.684.6360
 Certificate of Authorization 514

LENNAR HOMES
 PALOMA LAKES
 COCONUT CREEK, FLORIDA

WATER & SEWER PLAN

APPROVED PATRICK A. FIGURELLA, P.E.
 FLORIDA REGISTRATION NO. 54795

SCALE 1" = 40'
 PROJECT No 04-4780
 CAD FILE
 DATE: OCTOBER 18, 2010

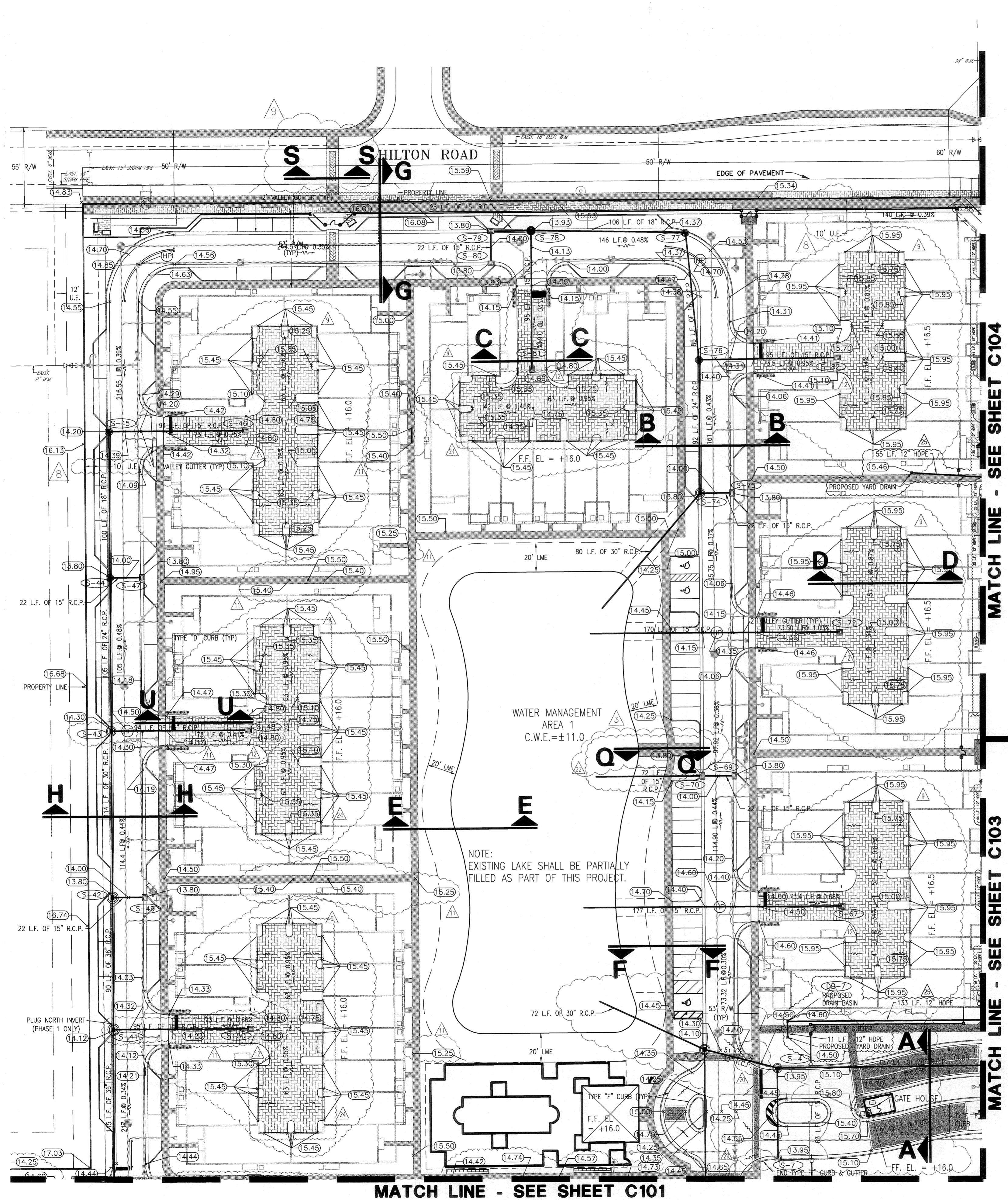
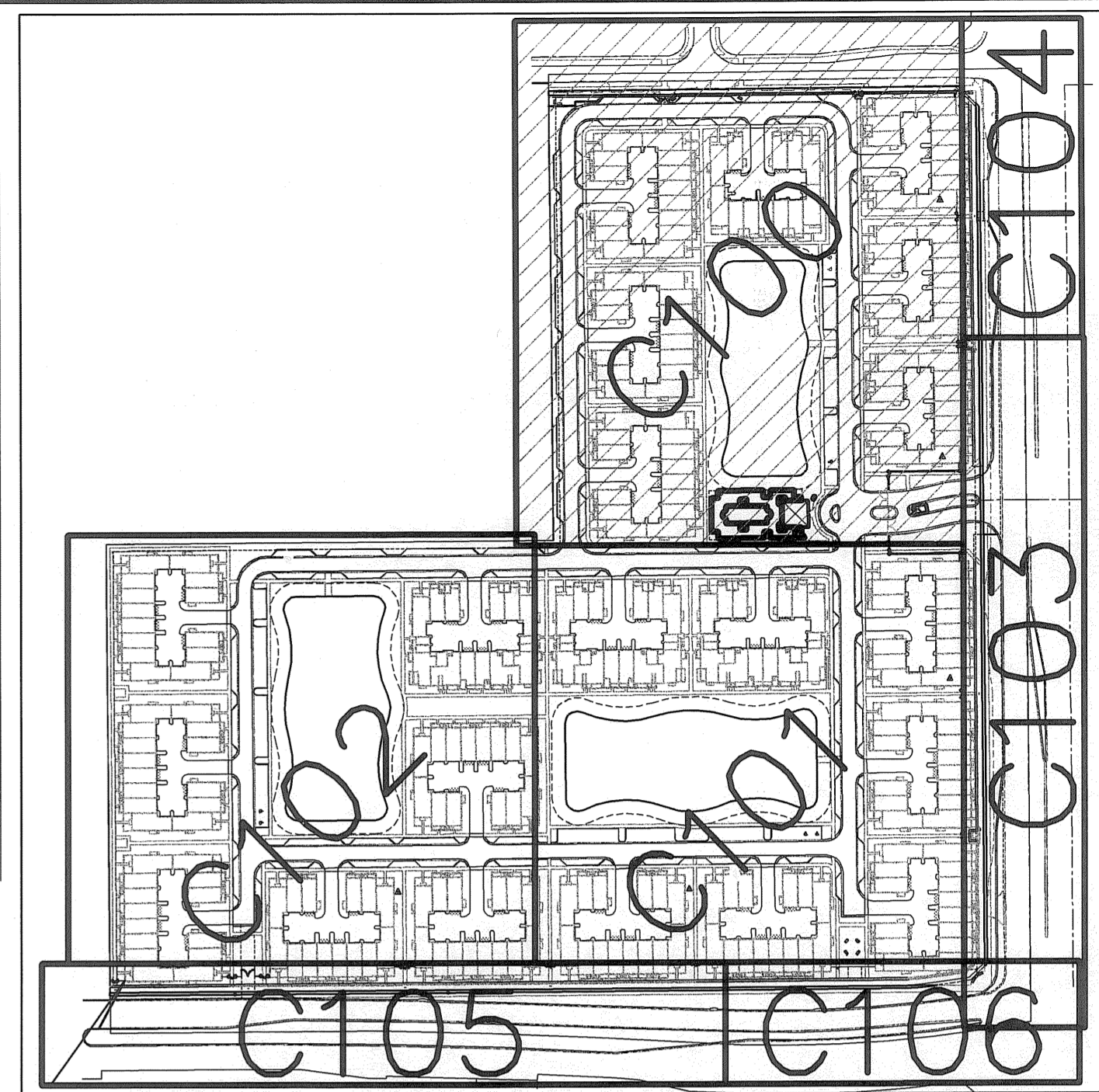
SHEET C302 OF 04

LEGEND

- EXISTING ELEVATION, FEET NGVD
- PROP. ELEVATION, FEET NGVD
- PROP. WATER VALVE
- EXISTING WATER VALVE
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- EXISTING POLE ANCHOR
- EXISTING CONC. POLE
- EXISTING LIGHT POLE
- EXISTING WOOD POWER POLE

NOTE: ALL EXISTING DRAINAGE STRUCTURES AND PIPING WITHIN THE SITE SHALL BE REMOVED AS PART OF THIS PROJECT.

LOCATION MAP NOT TO SCALE



MATCH LINE - SEE SHEET C104

MATCH LINE - SEE SHEET C103

MATCH LINE - SEE SHEET C101

SUMMARY OF DRAINAGE STRUCTURES

QUANTITY	STR. NO.	DESCRIPTION	BARRELS	LENGTH (LF)	SIZE (INCHES)	TYPE	GRATE ELEV.	INVERT
4		INLET, PIPE	1	88	30	FDOT "J-9" (5' DIA)	13.95	(+5.50 E (+2.50 W (+7.40 S
5		INLET, PIPE	1	72	30	"PCB" (6' DIA)	14.10	(+2.50 E (+5.50 NW(PRB) (+)5.50 S
7		INLET, PIPE	1	63	15	FDOT "P-9"	13.95	(+7.55 N
41		INLET, PIPE	1	115	36	"PCB" (6' DIA)	14.12	(+8.10 N (+8.10 S (+8.10 E
42		INLET, PIPE	1	90	36	"PCB" (6' DIA)	13.75	(+8.30N (+8.30 S (+9.50 E
43		INLET, PIPE	1	114	30	"PCB" (5' DIA)	14.30	(+9.00 N (+9.00 S (+9.00 E
44		INLET, PIPE	1	105	24	"PCB" (4' DIA)	13.75	(+9.50 N (+9.50 S (+9.50 E
45		INLET, PIPE	1	100	18	"PCB" (4' DIA)	14.20	(+10.40 S (+10.40 E
46		INLET, PIPE	1	95	15	"C"	14.60	(+10.75 W
47		INLET, PIPE	1	24	15	"C"	13.75	(+9.80 W
48		INLET, PIPE	1	95	15	"C"	14.60	(+9.35 W
49		INLET, PIPE	1	24	15	"C"	13.75	(+9.80 W
50		INLET, PIPE	1	95	15	"C"	14.60	(+8.40 W
67		INLET, PIPE	1	117	15	"C"	14.90	(+5.80 W(RECTANGULAR PRB)
69		INLET, PIPE	1	24	15	"C"	13.75	(+10.25 W
70		INLET, PIPE	1	72	15	"C"	13.75	(+10.15 E (+8.00 W(PRB)
72		INLET, PIPE	1	170	15	"C"	14.90	(+6.10 W(RECTANGULAR PRB)
74		INLET, PIPE	1	100	24	"PCB" (5' DIA)	13.75	(+9.55 N (+6.20 SW(PRB) (+)10.50 E
75		INLET, PIPE	1	24	15	"C"	13.75	(+10.60 W
76		INLET, PIPE	1	92	24	"PCB" (4' DIA)	14.20	(+10.90 E (+9.70 N (+9.70 S
77		INLET, PIPE	1	86	18	"PCB" (4' DIA)	14.44	(+9.90 S (+9.90 E
78		INLET, PIPE	1	28	15	"PCB" (4' DIA)	13.93	(+10.10 E (+10.70 S (+10.50 W
79		INLET, PIPE	1	28	15	"C"	13.75	(+10.20 E (+10.60 S
80		INLET, PIPE	1	24	15	"C"	13.75	(+10.65 N
81		INLET, PIPE	1	95	15	"C"	14.60	(+11.00 N
82		INLET, PIPE	1	113	15	"C"	14.90	(+11.20 W
DB-7		INLET, PIPE	1	133	12	DRAIN - SIN	14.80	(+10.50 E, (+) 10.50 S

NOTE:

- ALL DRAINAGE STRUCTURES DESIGNED TYPE "C" SHALL RECEIVE USF 5113 VALLEY GUTTER FRAME AND GRATE # 6194.
- TYPE "PCB" DENOTES "PRECAST CATCH BASIN" SEE DETAIL SHEET C110.
- MANHOLES ARE PER FDOT INDEX 200.
- M.E. DENOTES MATCH EXISTING ELEVATION.
- "PRB" DENOTES "POLLUTION RETARDANT BAFFLE" SEE DETAIL SHEET C110.
- THE FINISH RIMS, INVERTS, AND ASPHALT GRADE ELEVATIONS SHALL NOT DEVIATE MORE THAN 0.10' FROM ORIGINAL DESIGN ELEVATIONS.

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS

NOTE: APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit For Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction In The Public Right Of Way.

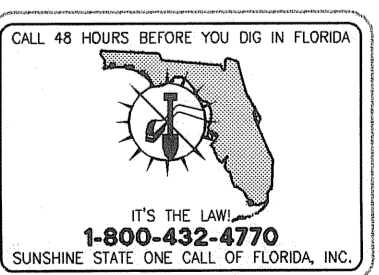
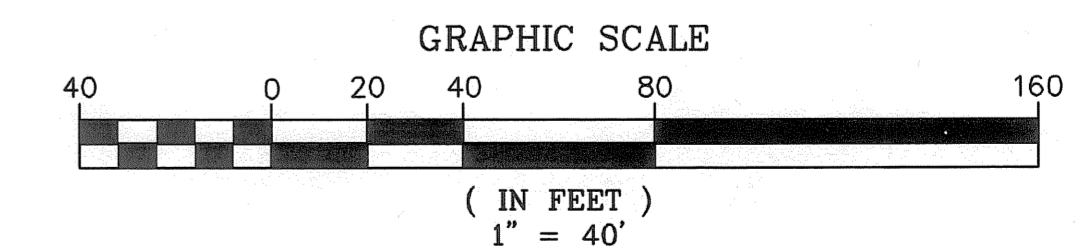
NOTICE OF INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

- PLAN CONSISTANT WITH PLAT REQUIREMENTS
- PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY: _____ DATE: _____
DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKINGS & SIGNS



NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
25	10-18-10	MODIFIED DRAINAGE PER SITE PLAN REVISIONS	LCR	15	10-23-07	RELOCATED DRAINAGE STRUCTURE, EXTENDED PIPE LENGTH	NS
3	10-19-06	PER LENNAR ON 10-17-06	NS	17	11-27-07	CLARIFIED GRADING	MW
8	02-07-07	ADDED ANNOTATION PER BC ENGINEERING	NS	20	04-28-08	REVISED CURB RAMPS	LOR
9	04-04-07	REVISED GATEHOUSE ELEVATIONS, DELETED ROOF DRAINS	LCR	21	06-11-08	REVISED POLLUTION RETARDANT BAFFLE	PAF
11	06-04-07	LOWERED DRAINAGE INVERT ELEVATIONS, REVISED ELEVATIONS	NS	22	08-01-08	REMOVED BOAT RAMPS	NS
12	06-28-07	REMOVED CURB FROM COURTYARD DRIVEWAYS	NS	24	05-25-10	MODIFIED DRIVES FOR NEW BUILDING FOOTPRINT	NS

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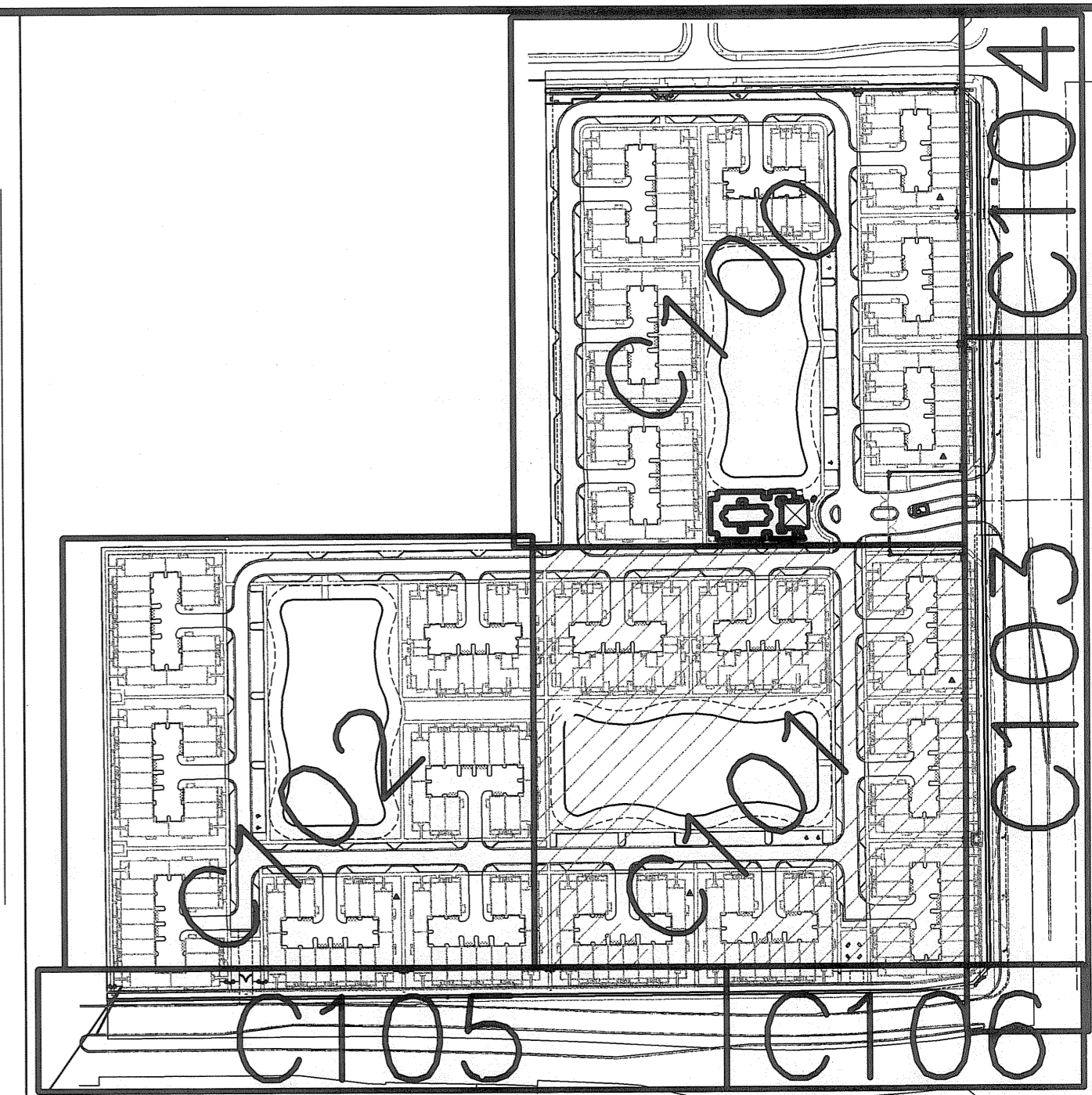
LENNAR HOMES
PALOMA LAKES
COCONUT CREEK, FLORIDA

DRAINAGE PLAN

APPROVED: PATRICK A. FIGURELLA, P.E.
FLORIDA REGISTRATION No. 54795
DATE: OCTOBER 18, 2010

SCALE: 1" = 40'
PROJECT No: 04-4780
CAD FILE: 044780-C100-102-STRM-PLN
SHEET: **C100**

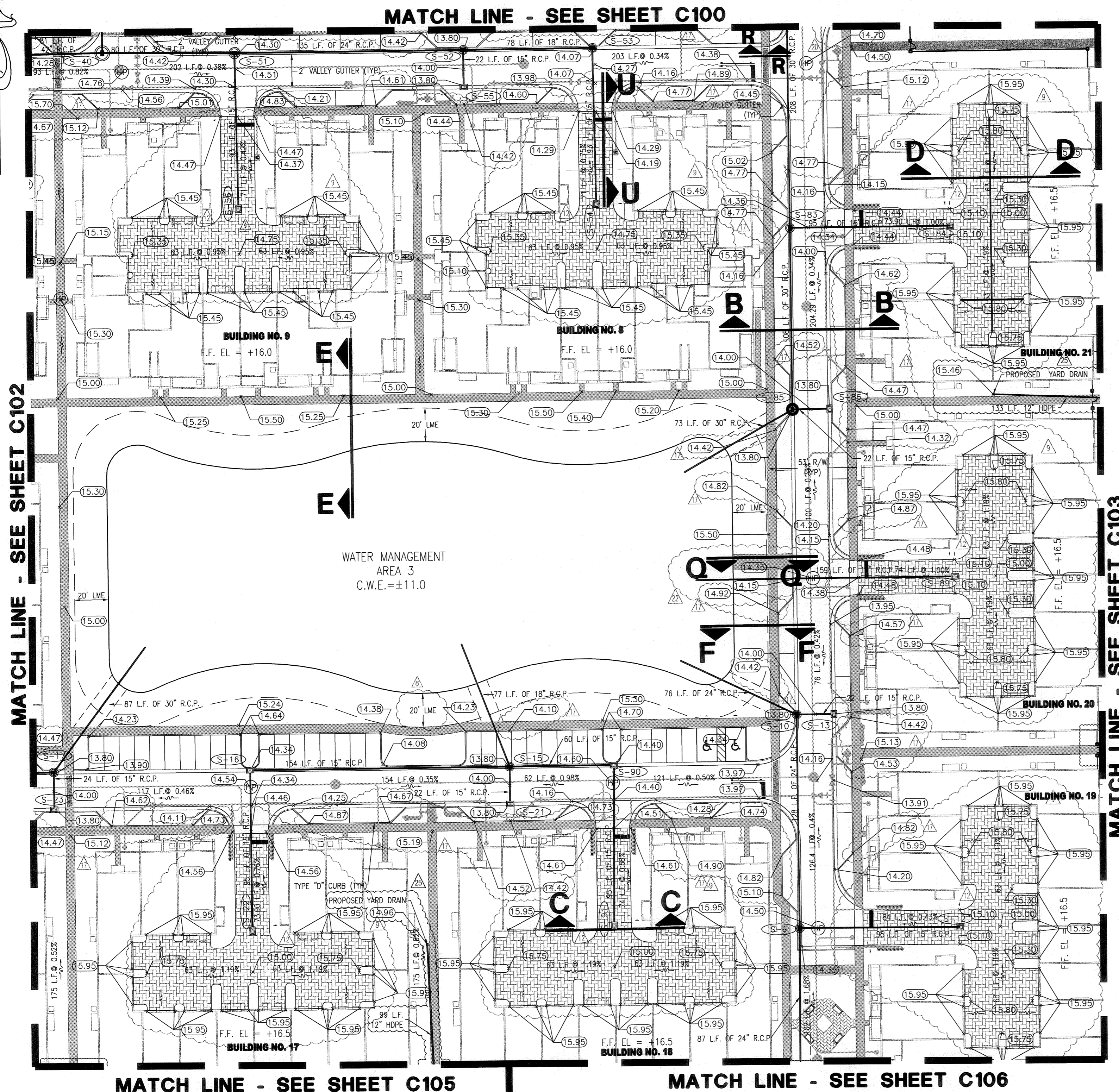
LOCATION MAP NOT TO SCALE



LEGEND

- EXISTING ELEVATION, FEET NGVD
- PROP. ELEVATION, FEET NGVD
- PROP. WATER VALVE
- EXISTING WATER VALVE
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- EXISTING POLE ANCHOR
- EXISTING CONC. POLE
- EXISTING ELEC. BOX/ELEC. HANDHOLE
- EXISTING LIGHT POLE
- EXISTING WOOD POWER POLE

NOTE: ALL EXISTING DRAINAGE STRUCTURES AND PIPING WITHIN THE SITE SHALL BE REMOVED AS PART OF THIS PROJECT.



SUMMARY OF DRAINAGE STRUCTURES

QUANTITY	STR. NO.	ENDWALL DESCRIPTION	BARRELS	LENGTH (LF)	SIZE (INCHES)	TYPE	GRADE ELEV.	INVERT
P	8	INLET, PIPE	1	46	24	"PCB" (4" DIA.)	15.30	(+9.00 S (+)6.50 N
F	9	INLET, PIPE	1	131	24	"PCB" (4" DIA.)	14.30	(+6.50 S (+)6.50 S (+)8.00 E
F	10	INLET, PIPE	1	76	24	"PCB" (5" DIA.)	13.75	(+6.50 S (+)10.20 E (+)6.50 W (PRB)
F	12	INLET, PIPE	1	95	15	"C"	14.90	(+8.30 W
F	13	INLET, PIPE	1	24	15	"C"	13.75	(+10.25 W
F	15	INLET, PIPE	1	77	18	"PCB" (4" DIA.)	13.75	(+10.15 S (+)7.50 W, NW (PRB) (+)7.80 E
F	16	INLET, PIPE	1	154	15	"C"	14.34	(+8.00 S (+)7.95 E
F	17	INLET, PIPE	1	87	30	"PCB" (5" DIA.)	13.75	(+9.70 S (+)6.00 NE (PRB) (+)6.00 W
F	21	INLET, PIPE	1	24	15	"C"	13.75	(+10.25 N
F	22	INLET, PIPE	1	95	15	"C"	14.90	(+8.25 N
F	23	INLET, PIPE	1	24	15	"C"	13.75	(+9.80 N
F	33	EXISTING INLET	1	101	24	"C"	M.E.	M.E.
F	40	MANHOLE, PIPE	1	81	42	"PCB" (7" DIA.)	14.55	(+7.95 N (+)8.70 E (+)7.95 W
F	51	INLET, PIPE	1	80	30	"PCB" (5" DIA.)	14.30	(+10.45 S (+)8.85 E (+)8.85 W
F	52	INLET, PIPE	1	135	24	"PCB" (4" DIA.)	13.75	(+9.55 E (+)10.25 S (+)9.55 W
F	53	INLET, PIPE	1	78	18	"PCB" (4" DIA.)	14.07	(+10.45 S (+)10.25 W
F	54	INLET, PIPE	1	93	15	"C"	14.60	(+10.75 N
F	55	INLET, PIPE	1	24	15	"C"	13.75	(+10.35 N
F	56	INLET, PIPE	1	93	15	"C"	14.60	(+10.75 N
F	83	INLET, PIPE	1	108	30	"PCB" (4" DIA.)	14.16	(+5.50 S (+)7.90 E (+)5.50 N
F	84	INLET, PIPE	1	93	15	"C"	14.90	(+8.15 W
F	85	INLET, PIPE	1	73	30	"PCB" (5" DIA.)	13.75	(+5.50 N (+)9.70 E (+)5.50 SW (PRB)
F	86	INLET, PIPE	1	24	15	"C"	13.75	(+9.80 W
F	89	INLET, PIPE	1	159	15	"C"	14.80	(+8.00 W (RECTANGULAR PRB)
F	90	INLET, PIPE	1	60	15	"C"	14.40	(+8.00 S (+)8.00 W
F	91	INLET, PIPE	1	95	15	"C"	14.90	(+8.30 N
F	8A	INLET, PIPE	1	24	24	MANHOLE (4" DIA.)	15.66	(+18.45 NE, (+)18.45 SW

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

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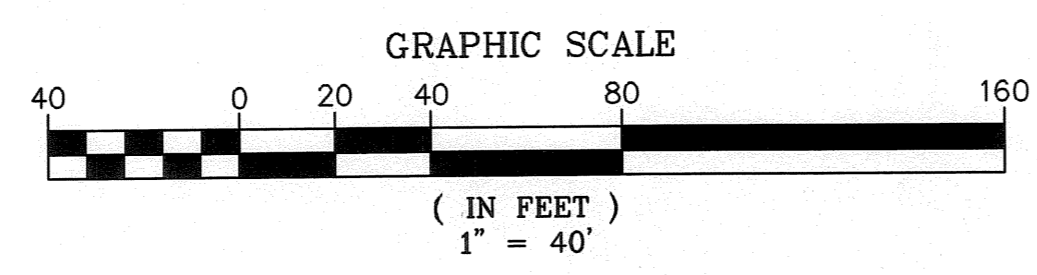
NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

- PLAN CONSISTANT WITH PLAT REQUIREMENTS
- PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY: _____ DATE: _____
DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKINGS & SIGNS



- NOTE:
- ALL DRAINAGE STRUCTURES DESIGNED TYPE "C" SHALL RECEIVE USF 5113 VALLEY GUTTER FRAME AND GRATE # 6194.
 - TYPE "PCB" DENOTES "PRECAST CATCH BASIN" SEE DETAIL SHEET C110.
 - MANHOLES ARE PER FDOT INDEX 200.
 - M.E. DENOTES MATCH EXISTING ELEVATION.
 - "PRB" DENOTES "POLLUTION RETARDANT BAFFLE" SEE DETAIL SHEET C110.
 - THE FINISH RIMS, INVERTS, AND ASPHALT GRADE ELEVATIONS SHALL NOT DEVIATE MORE THAN 0.10' FROM ORIGINAL DESIGN ELEVATIONS.

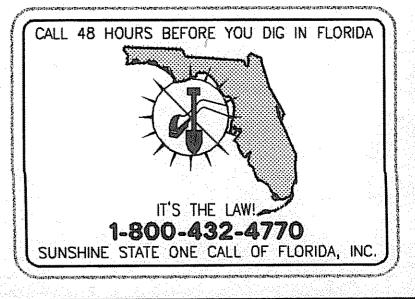
NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
8	02-07-07	MOVED ANNOTATION	NS	21	06-11-08	REVISED POLLUTION RETARDANT BAFFLE	PAF
9	04-04-07	REVISED GATEHOUSE ELEVATIONS, DELETED ROOF DRAINS	LCR	22	08-01-08	REMOVED BOAT RAMPS	NS
12	06-28-07	REMOVED CURB FROM COURTYARD DRIVEWAYS	NS	25	10-18-10	MODIFIED DRAINAGE PER SITE PLAN REVISIONS	LCR
17	11-27-07	CLARIFIED GRADING	MW				
20	04-28-08	REVISED CURB RAMPS	LCR				

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EXCEPTIONAL SOLUTIONS
560 Wiloge Boulevard, Suite 340 West Palm Beach, Florida 33409
Phone: 561.684.6161 & Fax: 561.684.6360
Certificate of Authorization 514

LENNAR HOMES
PALOMA LAKES
COCONUT CREEK, FLORIDA

DRAINAGE PLAN

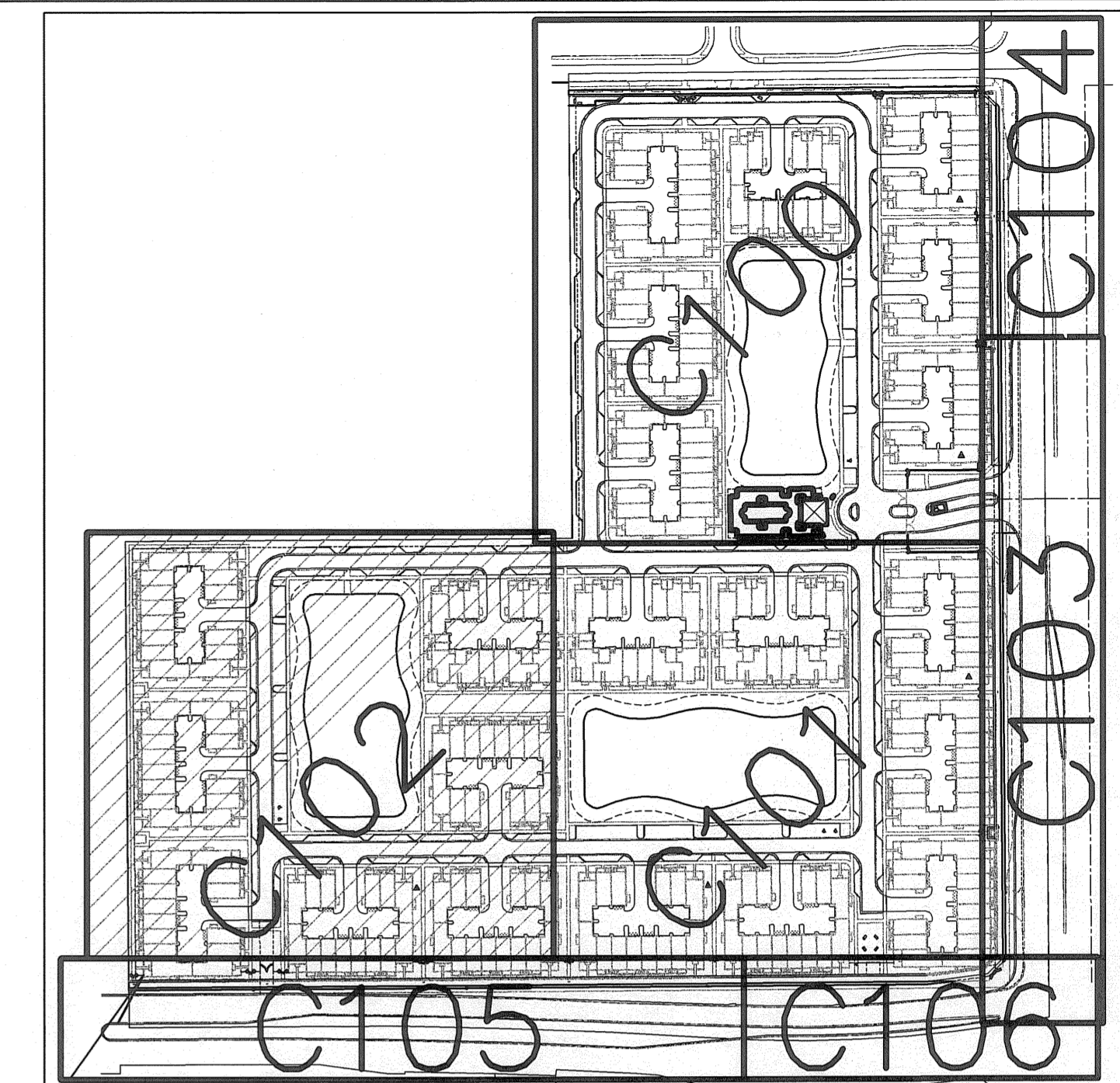
APPROVED PATRICK A. FIGURELLA, P.E.
FLORIDA REGISTRATION No. 54795
SCALE 1" = 40'
PROJECT No 04-4780
CAD FILE 044780-C100-102-STRM-PLN OF
SHEET **C101**
DATE: OCTOBER 18, 2010



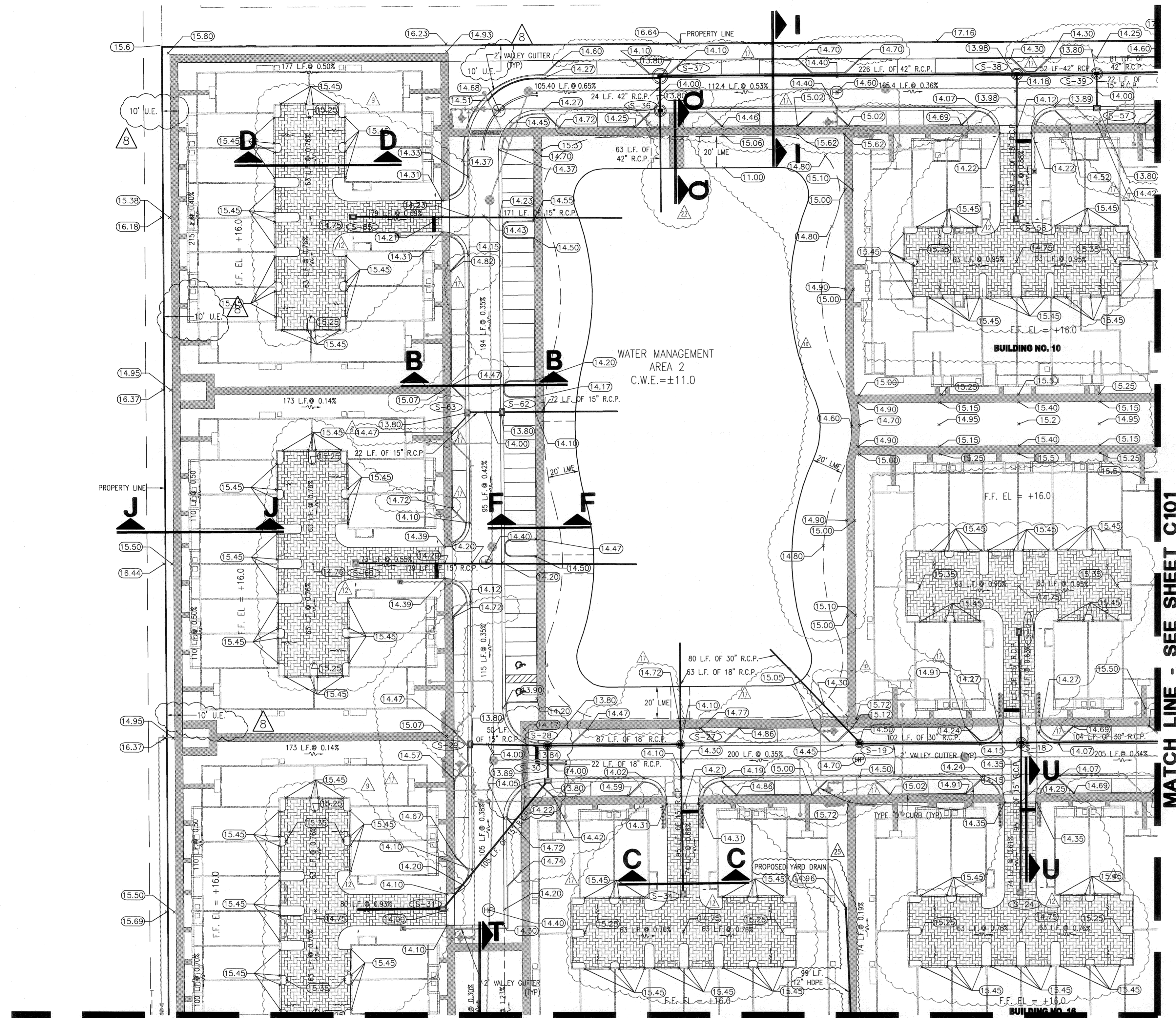
LEGEND

- EXISTING ELEVATION, FEET NGVD ∇
- PROP. ELEVATION, FEET NGVD ∇ (0.00)
- PROP. WATER VALVE ∇ (with valve symbol)
- EXISTING WATER VALVE ∇ (with valve symbol)
- PROPOSED FIRE HYDRANT ∇ (with hydrant symbol)
- EXISTING FIRE HYDRANT ∇ (with hydrant symbol)
- PROPOSED MANHOLE ∇ (with manhole symbol)
- EXISTING MANHOLE ∇ (with manhole symbol)
- PROPOSED CAICH BASIN ∇ (with catch basin symbol)
- EXISTING CATCH BASIN ∇ (with catch basin symbol)
- EXISTING POLE ANCHOR ∇ (with anchor symbol)
- EXISTING CONC. POLE ∇ (with pole symbol)
- EXISTING ELEC. BOX/ELEC. HANDHOLE ∇ (with box symbol)
- EXISTING LIGHT POLE ∇ (with light pole symbol)
- EXISTING WOOD POWER POLE ∇ (with wood pole symbol)

NOTE: ALL EXISTING DRAINAGE STRUCTURES AND PIPING WITHIN THE SITE SHALL BE REMOVED AS PART OF THIS PROJECT.



LOCATION MAP NOT TO SCALE



MATCH LINE - SEE SHEET C105

MATCH LINE - SEE SHEET C101

SUMMARY OF DRAINAGE STRUCTURES

QUANTITY	STR. NO.	DESCRIPTION	BARRELS	LENGTH (L')	SIZE (INCHES)	TYPE	GRATE	INVERT
P	18	INLET PIPE	1	104	30	"PCB" (5' DIA.)	14.15	(+10.70N (+)7.70S (+)6.00E (+)6.00W
F	19	INLET PIPE	1	102	30	"PCB" (4' DIA.)	14.50	(+3.50 NW(PRB) (+)6.00 E
F	24	INLET PIPE	1	95	15	"C"	14.60	(+8.00 N
F	25	INLET PIPE	1	71	15	"C"	14.60	(+11.00 S
F	27	INLET PIPE	1	63	18	"PCB" (4' DIA.)	14.10	(+7.55 S (+)7.40 N(PRB) (+)7.40 W
F	28	INLET PIPE	1	87	18	"PCB" (4' DIA.)	13.75	(+7.60 S (+)7.60 E (+)10.10 W
F	29	INLET PIPE	1	50	15	"C"	13.75	(+10.25 E
F	30	INLET PIPE	1	24	18	"C"	13.75	(+7.70 N (+)7.70 SW
F	31	INLET PIPE	1	105	15	"C"	14.00	(+8.00 NE
F	34	INLET PIPE	1	95	15	"C"	14.60	(+8.50 N
F	36	INLET PIPE	1	63	42	"PCB" (6' DIA.)	13.75	(+7.45 N (+)5.15 S(PRB)
F	37	INLET PIPE	1	24	42	"PCB" (8' DIA.)	13.75	(+7.50 S (+)7.50 E
F	38	INLET PIPE	1	226	42	"PCB" (6' DIA.)	13.98	(+7.70 S (+)7.75 E (+)7.75 W
F	39	INLET PIPE	1	52	42	"PCB" (6' DIA.)	13.75	(+10.15 S (+)7.85 E (+)7.85 W
F	57	INLET PIPE	1	24	15	"C"	13.75	(+10.25 N
F	58	INLET PIPE	1	93	15	"C"	14.60	(+8.00 N
F	60	INLET PIPE	1	179	15	"C"	14.60	(+8.20 E(RECTANGULAR PRB)
F	62	INLET PIPE	1	72	15	"C"	13.75	(+7.08 E(PRB) (+)7.50 W
F	63	INLET PIPE	1	24	15	"C"	13.75	(+7.60 E
F	65	INLET PIPE	1	171	15	"C"	14.60	(+8.50 E(RECTANGULAR PRB)

PERMIT SET
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NOTICE
INSPECTION REQUIRED

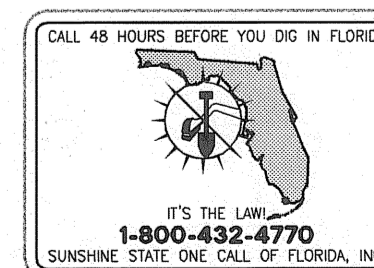
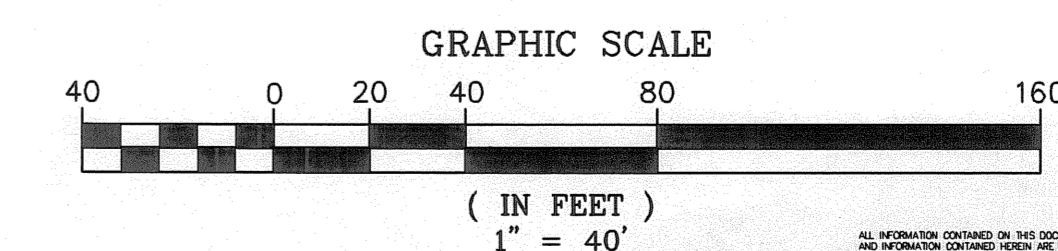
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BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

- PLAN CONSISTANT WITH PLAT REQUIREMENTS
- PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

DATE: _____
DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKINGS & SIGNS

- NOTE:
- ALL DRAINAGE STRUCTURES DESIGNED TYPE "C" SHALL RECEIVE USF 5113 VALLEY GUTTER FRAME AND GRATE # 6194.
 - TYPE "PCB" DENOTES "PRECAST CATCH BASIN" SEE DETAIL SHEET C110.
 - MANHOLES ARE PER FDOT INDEX 200.
 - M.E. DENOTES MATCH EXISTING ELEVATION.
 - "PRB" DENOTES "POLLUTION RETARDANT BAFFLE" SEE DETAIL SHEET C110.
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NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
8	02-07-07	ADDED ANNOTATION PER BC ENGINEERING	NS	21	06-11-08	REVISED POLLUTION RETARDANT BAFFLE	PAF
9	04-04-07	REVISED GATEHOUSE ELEVATIONS, DELETED ROOF DRAINS	LCR	22	08-01-08	REMOVED BOAT RAMPS	NS
10	04-12-07	CLARIFIED GRADES	NS	25	10-18-10	MODIFIED DRAINAGE PER SITE PLAN REVISIONS	LCR
12	06-28-07	REMOVED CURB FROM COURTYARD DRIVEWAYS	NS				
17	11-27-07	CLARIFIED GRADING	MW				

DESIGNED DATE: 07/2004
M.A.R.
DRAWN DATE: 07/2004
R.E.S.
CHECKED DATE: _____

Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS
560 Village Boulevard, Suite 340 West Palm Beach, Florida 33409
Phone: 561.684.6161 & Fax: 561.684.6360
Certificate of Authorization 814

LENNAR HOMES
PALOMA LAKES
COCONUT CREEK, FLORIDA

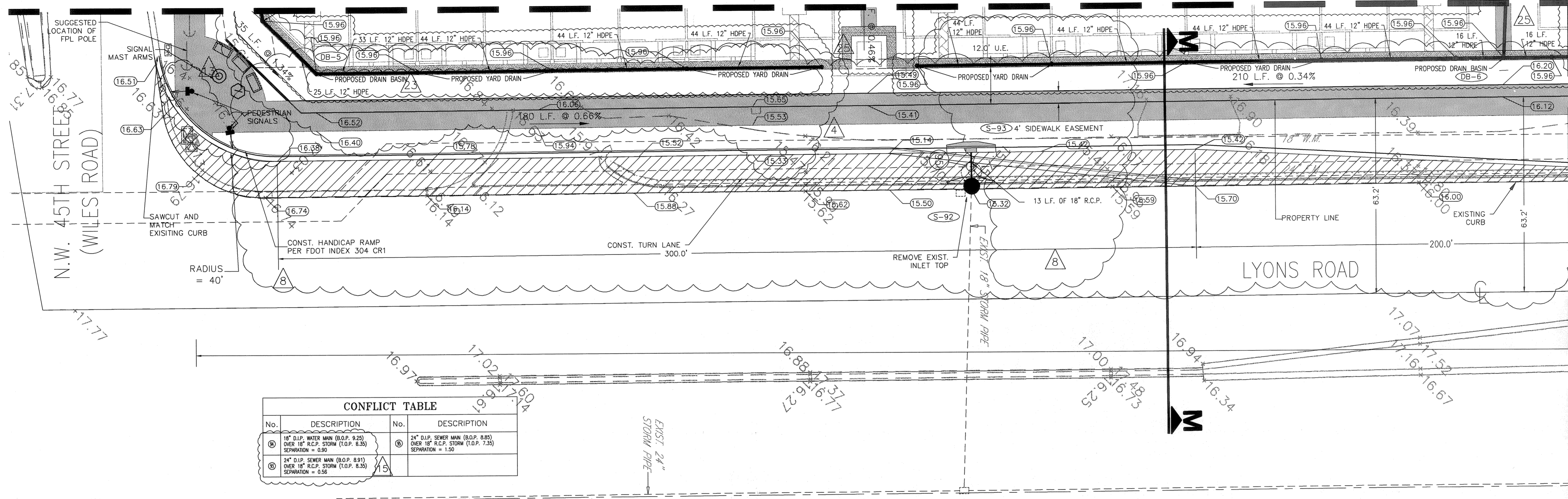
APPROVED PATRICK A. FIGURELLA, P.E.
FLORIDA REGISTRATION No. 54795

SCALE: 1" = 40'
PROJECT No: 04-4780
CAD FILE: 044780-C100-103-STRM-PLAN

C102

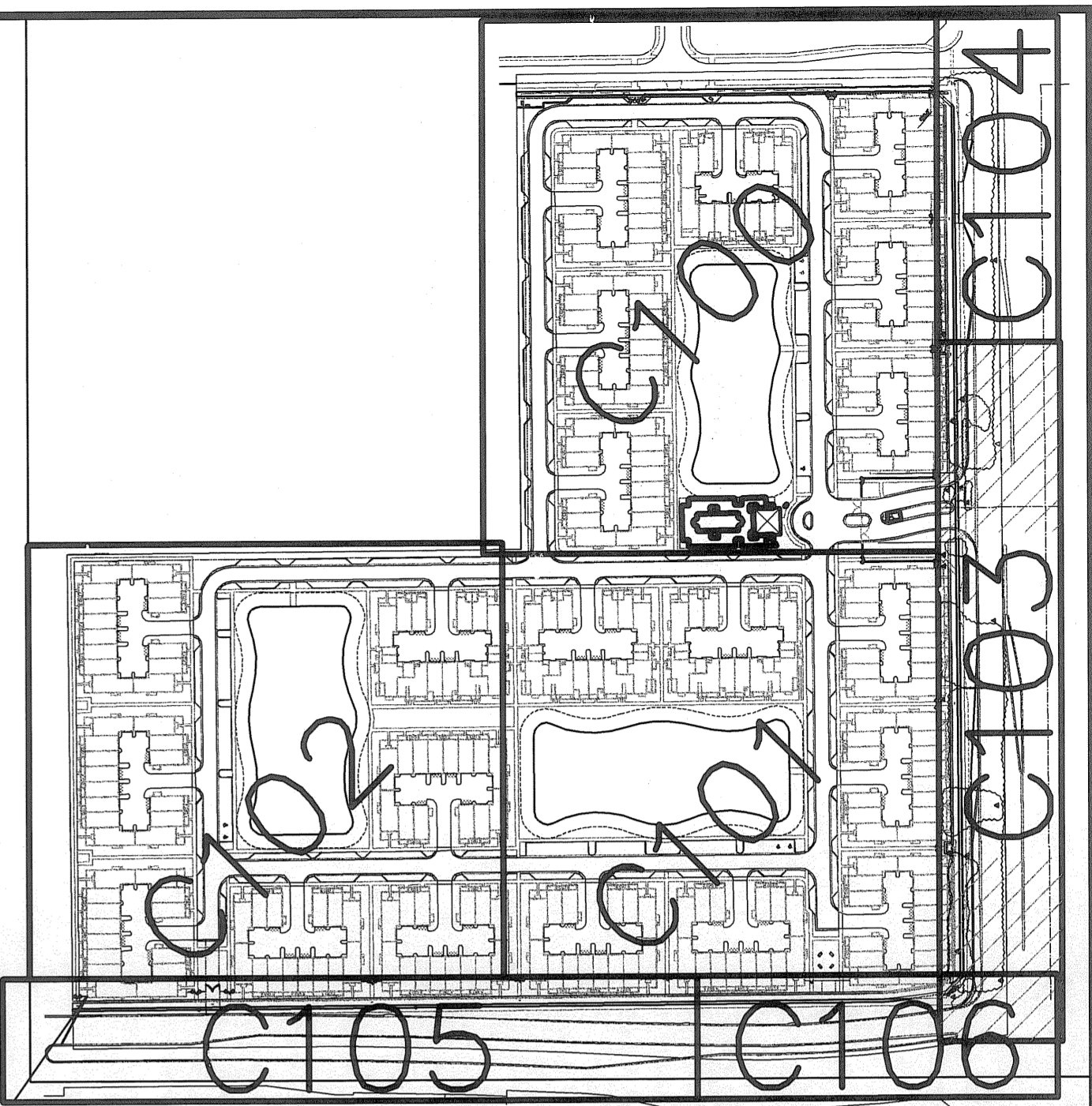
DATE: OCTOBER 18, 2010

MATCH LINE - SEE SHEET C101



CONFLICT TABLE

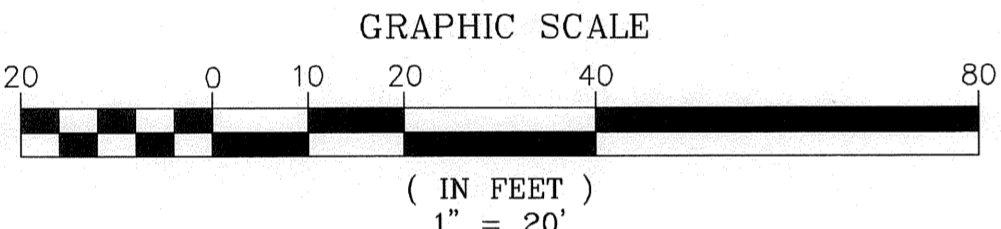
No.	DESCRIPTION	No.	DESCRIPTION
1	18" D.I.P. WATER MAIN (B.O.P. 8.20) OVER 18" R.C.P. STORM (T.O.P. 8.35) SEPARATION = 0.95	2	24" D.I.P. SEWER MAIN (B.O.P. 8.80) OVER 18" R.C.P. STORM (T.O.P. 7.35) SEPARATION = 1.50
3	24" D.I.P. SEWER MAIN (B.O.P. 8.91) OVER 18" R.C.P. STORM (T.O.P. 8.35) SEPARATION = 0.56	4	



SUMMARY OF DRAINAGE STRUCTURES

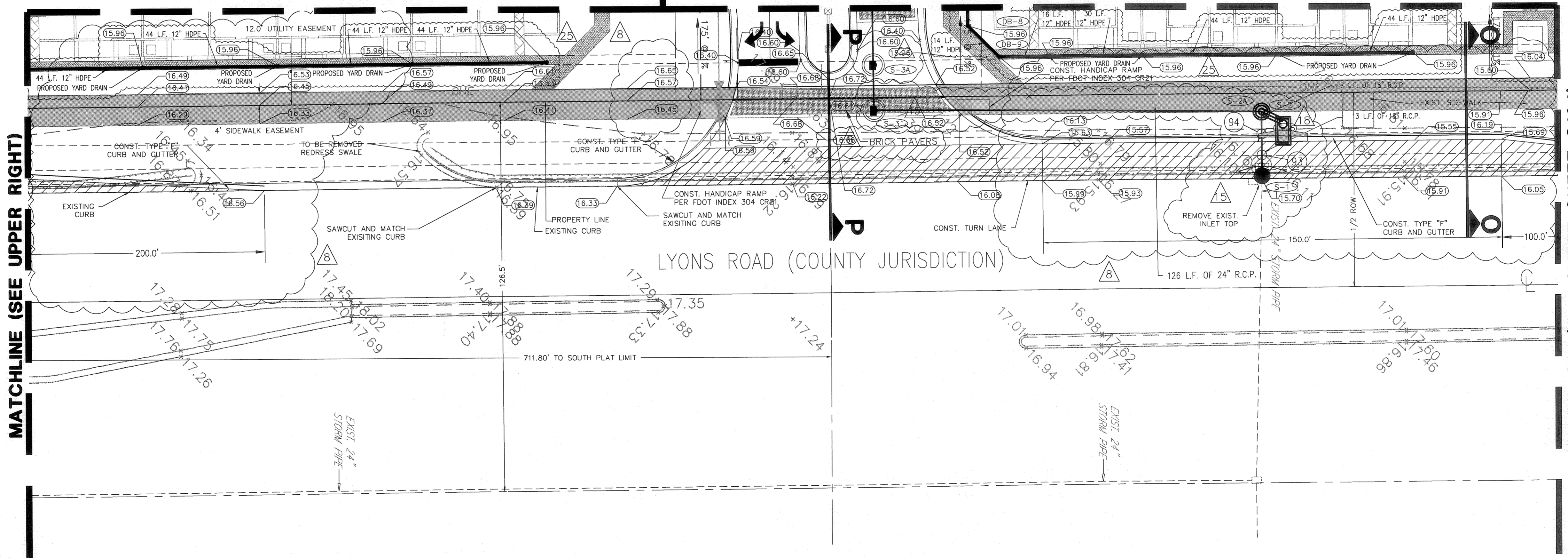
QUANTITY	STR. NO.	DESCRIPTION	BARRELS	SIZE (INCHES)	LENGTH (LF)	TYPE	GRADE ELEV.	INVERT
P	1	MANHOLE TOP, PIPE	1	18	13	TOP TYPE P-7	15.70*	(+).M.E. W (EX.) (+).8.44 E (EX.)
F	2	INLET, PIPE	1	18	7	P-2	15.35*	(+).M.E. E (+).8.29 W
P	3	MANHOLE, PIPE	1	30	167	"FCB" (6" DIA.)	16.60	(+).4.50 W (+).5.50 N
F	92	MANHOLE TOP, PIPE	1	18	13	TOP TYPE P-7	15.32*	(+).5.94 W (PROP.) (+).4.03 E (EX.)
F	93	INLET, PIPE	1	18	13	P-6	14.99*	(+).5.90 E
F	2A	MANHOLE TOP, PIPE	1	24	126	"FCB" (4" DIA.)	16.10	(+).5.50 S (+).8.29 E
F	P DB-5	INLET, PIPE	1	12	25	DRAIN BASIN	15.96	(+).12.00 SW (+).12.00 N
F	DB-6	INLET, PIPE	1	12	133	DRAIN BASIN	15.96	(+).12.00 W, (+).12.00 S, (+).12.00 N
F	DB-8	INLET, PIPE	1	12	133	DRAIN BASIN	15.96	(+).12.00 W, (+).12.00 NE
F	DB-9	INLET, PIPE	1	12	14	DRAIN BASIN	15.96	(+).12.00 SW, (+).12.00 N

* DENOTES EDGE OF PAVEMENT ELEVATION



MATCH LINE - SEE SHEET C101

MATCH LINE - SEE SHEET C100



LEGEND

- EXISTING ELEVATION, FEET NCVD
- PROP. ELEVATION, FEET NCVD
- PROP. WATER VALVE
- EXISTING WATER VALVE
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED MANHOLE
- EXISTING MANHOLE
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- EXISTING POLE ANCHOR
- EXISTING CONC. POLE
- EXISTING ELEC. BOX/ELEC. HANDHOLE
- EXISTING LIGHT POLE
- EXISTING WOOD POWER POLE
- PROPOSED BUS PULLOUT
- PROPOSED TURN LANE
- PROPOSED SIDEWALK
- PROPOSED PAVERS

NOTE: ALL EXISTING DRAINAGE STRUCTURES AND PIPING WITHIN THE SITE SHALL BE REMOVED AS PART OF THIS PROJECT.

THE CONTRACTOR IS TO REFER TO SHEET C503 FOR MOT NOTES.

NO.	DATE	REVISION	BY	NO.	DATE	REVISION	BY
4	12-01-06	ADDED CALLOUT, REMOVED PAVERS AND CLARIFIED GRADING	NS	18	01-07-08	ADDED CONFLICT STRUCTURE	NS
8	02-07-07	REPLACED PAVERS, ADDED DIMENSIONS PER JC COMMENTS	NS	20	06-20-08	MODIFIED SIDEWALK AT LYONS-WILES INTERSECTION	NS
9	05-10-07	MODIFIED LEGEND	NS	22	08-01-08	ADDITIONAL DRAINAGE STRUCTURE	NS
13	08-31-07	MODIFIED HANDICAP RAMPS	NS	23	10-29-09	REVISED GRADING SIDEWALK AND SWALE GRADING	NS
15	10-23-07	ADDED AND RELOCATED DRAINAGE STRUCTURES	NS	25	10-18-10	MODIFIED DRAINAGE PER SITE PLAN REVISION	LCR
NO	DATE	REVISION	BY	NO	DATE	REVISION	BY

Calvin, Giordano & Associates, Inc.
 EXCEPTIONAL SOLUTIONS
 560 Village Boulevard, Suite 340 West Palm Beach, Florida 33409
 Phone: 561.684.6161 & Fax: 561.684.6360
 Certificate of Authorization 514

LENNAR HOMES
PALOMA LAKES
COCONUT CREEK, FLORIDA

LYONS ROAD MODIFICATIONS

APPROVED PATRICK A. FIGURELLA, P.E.
 FLORIDA REGISTRATION No. 54795
 DATE: OCTOBER 18, 2010

SCALE 1" = 20'
 PROJECT No. 04-4780
 CAD FILE 044780-C103-104-LYONS PLAN OF

SHEET **C103**

PERMIT SET
 MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

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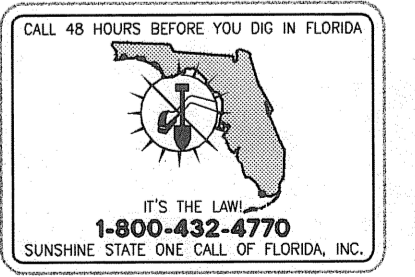
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BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

- PLAN CONSISTENT WITH PLAT REQUIREMENTS
- PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

DOES NOT INCLUDE APPROVAL OF PAVEMENT WARNINGS & SIGNS



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