

LAST REVISED: 8/28/19
RIV-A PL12 WS

A map of the project area showing the location of the site. The site is located on the east side of Discovery Way, between Tradition Parkway and Community Blvd. The map also shows Range Line Road to the west, Gatlin Blvd. to the north, Village Parkway to the east, and the C-23 Canal to the south. A north arrow is located in the top right corner.

N.T.S.
SEC.16 TWP. 37 S RGE. 39 E.

GLH ENGINEERING, LLC

<u>INDEX OF SHEETS</u>	
<u>SHEET No.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2-7	WATER AND SEWER PLANS
8	OVERALL WATER SAMPLE POINT MAP
9-10	SEWER PROFILES

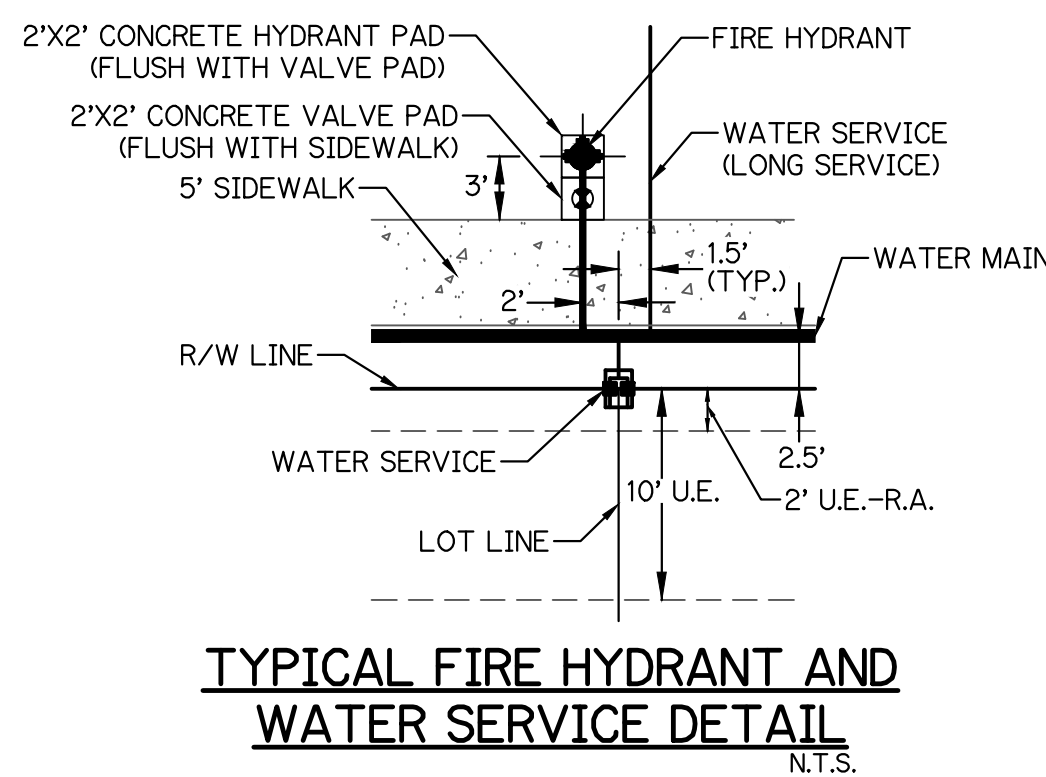
REVISION NO.		DATE

MATTHEW WOODS, P.E.
FLORIDA P.E. #68342

NOTE: ALL GRADES SHOWN ARE IN NAVD88

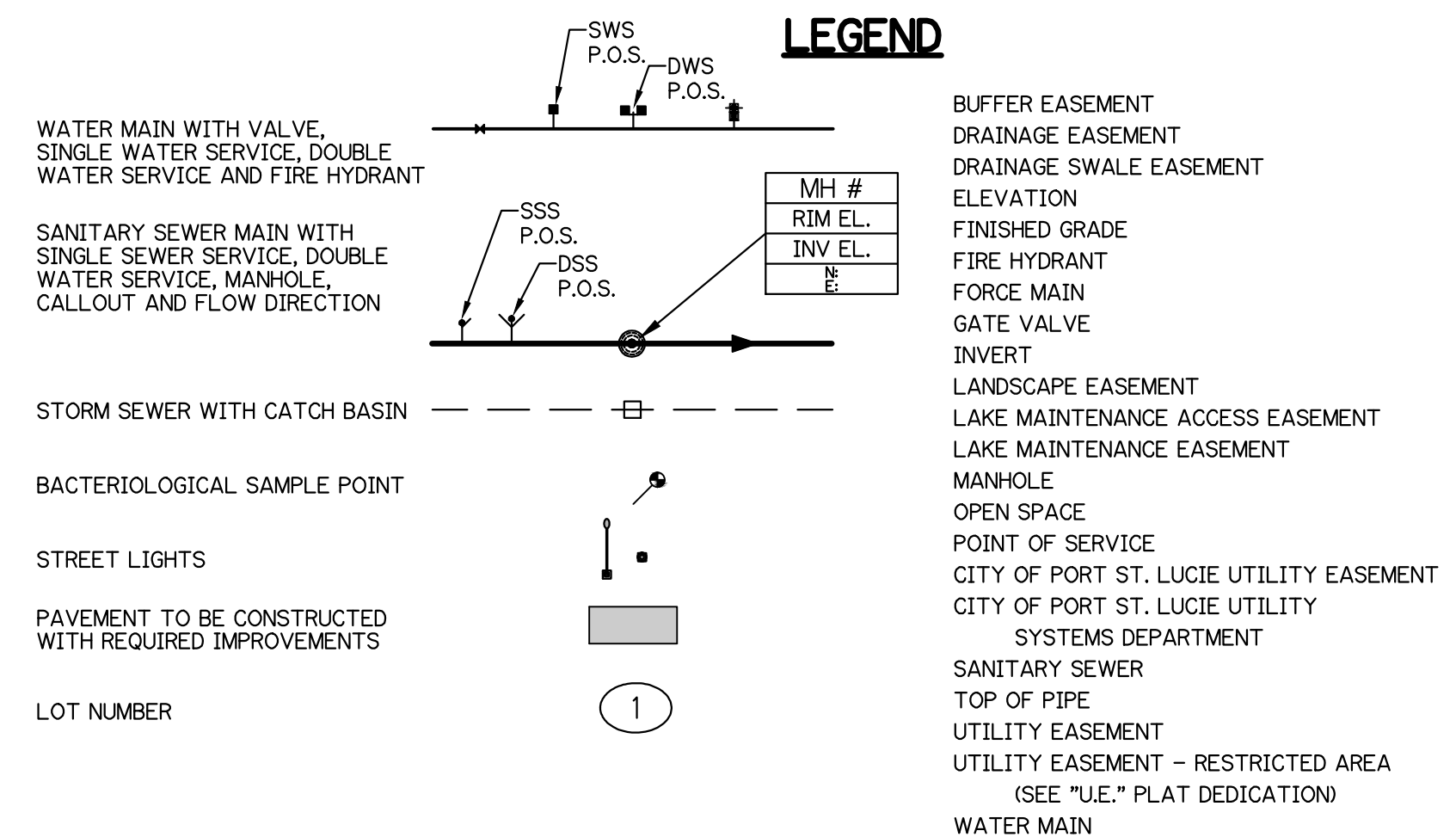
P19-050 (PSLUSD 5203L)

SHEET 1 OF 10



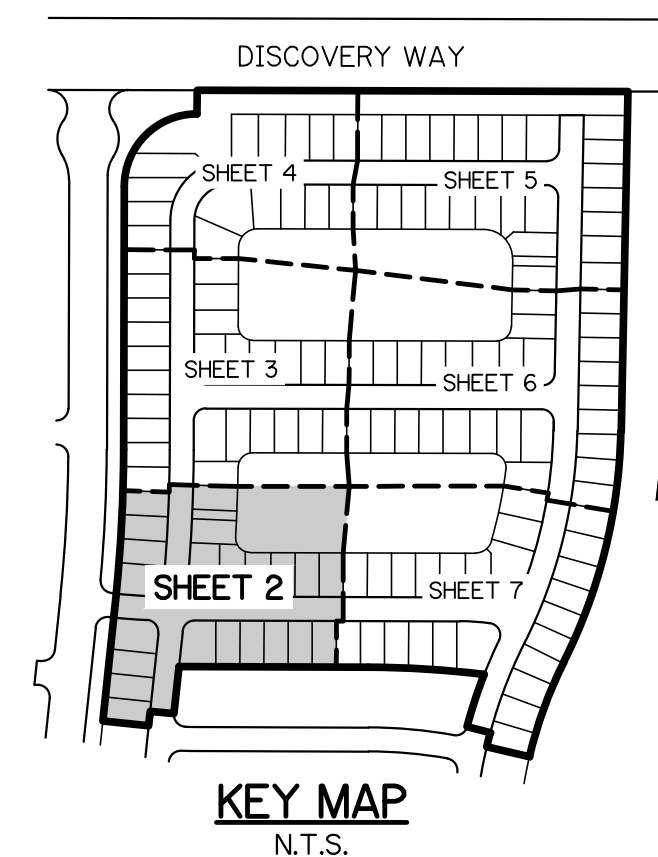
NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT (PSLUSD) UTILITY STANDARDS MANUAL, 2019 EDITION AS WELL AS THE PSLUSD UTILITY STANDARD DETAILS, 2019 EDITION. A COPY OF THE 2019 EDITION OF THE PSLUSD UTILITY STANDARDS MANUAL AND UTILITY STANDARD DETAILS SHALL BE AVAILABLE ON-SITE AT ALL TIMES.
2. UNRELATED WORK IS BEING DONE.
3. PRIOR TO CONSTRUCTION IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY (ELEVATION AND LOCATION) ALL EXISTING UTILITIES. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR (EOR) TO CONTINUATION OF WORK.
4. THERE SHALL BE NO FIELD CHANGES OR DEVIATIONS FROM DESIGN WITHOUT PRIOR WRITTEN APPROVAL OF THE PSLUSD AND EOR.
5. 1. CONFORM TO A ELEVATION TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88).
6. ALL WATER AND WASTEWATER PRESSURE MAINS SHALL BE PVC, C-900, DR18 (PRESSURE CLASS 235).
7. ALL GRAVITY SEWER PIPE, FITTINGS AND SERVICE LINES SHALL BE PVC, SDR 26 AND, AS A MINIMUM, CONFORM TO ASTM D-3034.
8. VALVES SHALL NOT BE PLACED IN CURBS, GUTTERS, SIDEWALKS, PARKING SPACES AND HANDICAP RAMPS, WHERE CONCRETE VALVE PADS TO BE OWNED BY PSLUSD ARE ADJACENT TO SIDEWALKS, THE VALVES SHALL BE PLACED PART OF THE SIDEWALK FOUR FEET FROM THE CURB.
9. PRIOR TO FINAL CERTIFICATION AND THE ISSUANCE OF FINAL WATER METERS FOR THIS PLAT, THE WATER MAIN SHALL BE LOOPED TO THE ULTIMATE TIE-IN LOCATION AT THE NORTH END OF RIVERLAND PARCEL A ON DISCOVERY WAY. THIS IS ANTICIPATED TO BE COMPLETE BY MAY 2020.



WATER AND SANITARY SERVICES			
LOT NO.	TYPE	DESIGN COORDINATE	AS-BUILT COORDINATE
710/711	DSS	N 1061047.1/E 837109.7	-
711/712	DWS	N 1060995.5/E 837107.7	-
712/713	DSS	N 1060943.8/E 837104.9	-
713/714	DWS	N 1060892.3/E 837101.2	-
714	SSS	N 1060839.6/E 837092.6	-
715	SSS	N 1060761.8/E 837086.8	-
715/716	DWS	N 1060709.9/E 837083.0	-
716/717	DSS	N 1060660.0/E 837077.7	-
717/718	DSS	N 1060610.1/E 837072.4	-
719	SWS	N 1060770.9/E 837144.4	-
779/780	DSS	N 1060779.1/E 837207.3	-
780/781	DSS	N 1060779.0/E 837257.5	-
781/782	DSS	N 1060778.8/E 837307.7	-
782/783	DSS	N 1060778.7/E 837357.9	-
783/784	DSS	N 1060778.6/E 837408.1	-
784/785	DWS	N 1060778.4/E 837458.3	-
797/798	DWS	N 1060828.4/E 837472.4	-
798/799	DSS	N 1060828.5/E 837422.2	-
799/800	DSS	N 1060828.7/E 837372.0	-
800/801	DSS	N 1060828.8/E 837321.8	-
801	SWS	N 1060828.9/E 837277.2	-
802	DSS	N 1060829.0/E 837259.2	-
802/803	DSS	N 1060829.1/E 837214.6	-
803	SWS	N 1060844.1/E 837150.3	-
804	DSS	N 1060942.3/E 837154.9	-
804	SWS	N 1060989.9/E 837157.5	-
805	SWS	N 1061012.9/E 837158.5	-
805/806	DSS	N 1061061.3/E 837160.1	-

SWS = SINGLE WATER SERVICE, DWS = DOUBLE WATER SERVICE
SSS = SINGLE SEWER SERVICE, DSS = DOUBLE SEWER SERVICE



WATER AND SEWER PLAN
FOR
RIVERLAND-PARCO
PLAT TWELVE

[illegible]

GLH ENGINEERING, LLC
1600 SAWGRASS CORPORATE
PARKWAY, SUITE 400
SUNRISE, FLORIDA 33323
PHONE: (954) 753-1730

SCALE: 1"=40'
DATE: 5/16/19
DESIGNED BY: AQC
CHECKED BY: MW
FILE NAME: RIV-A PL12 WS

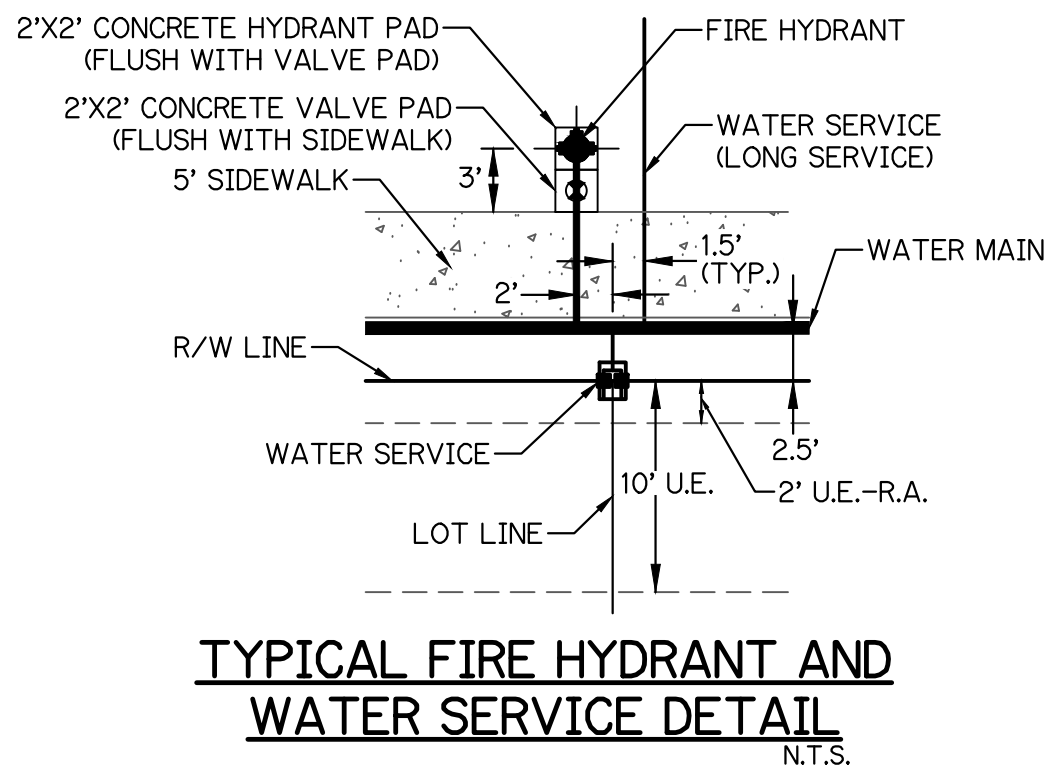
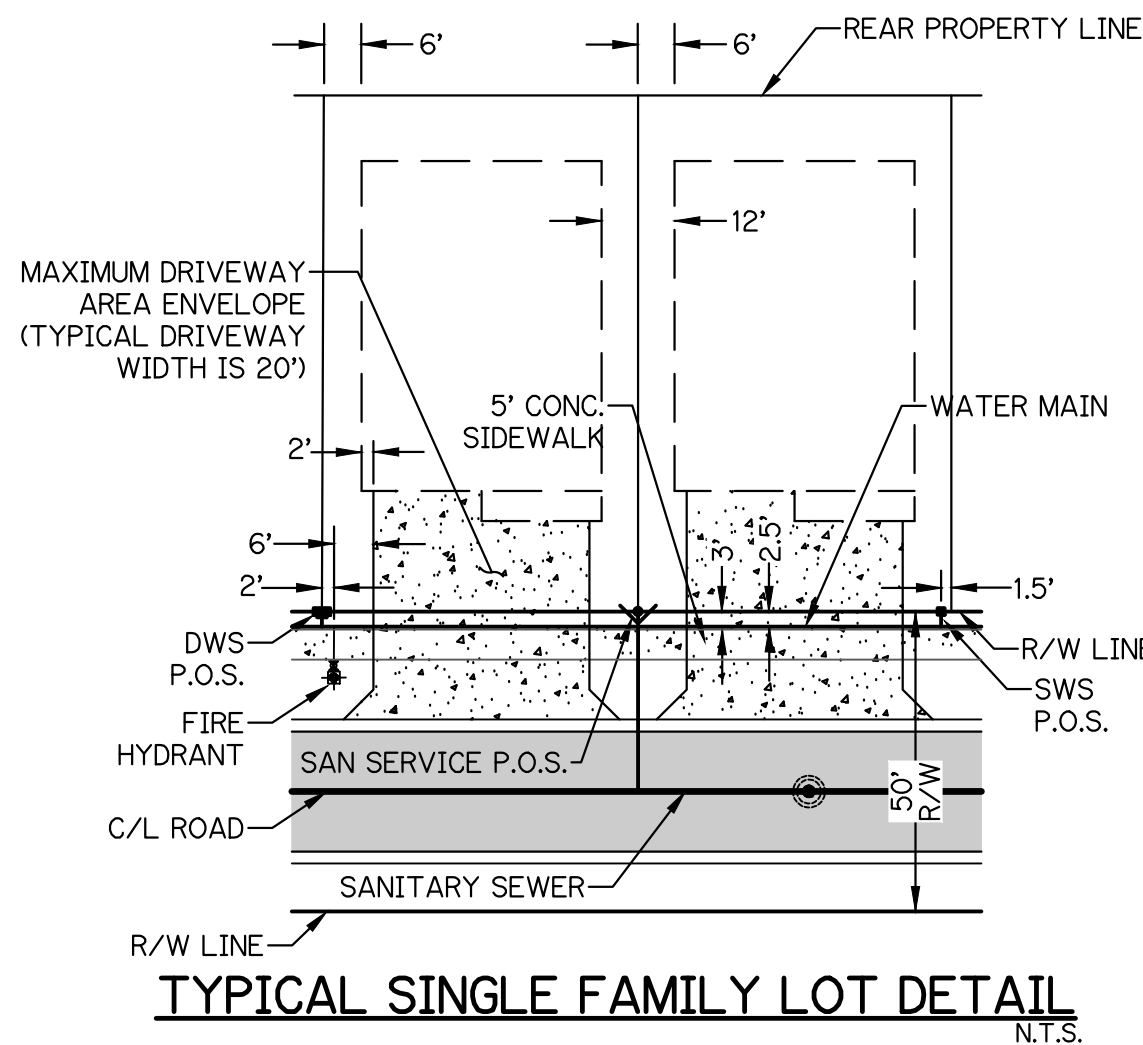
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RIV-A PL12	WS
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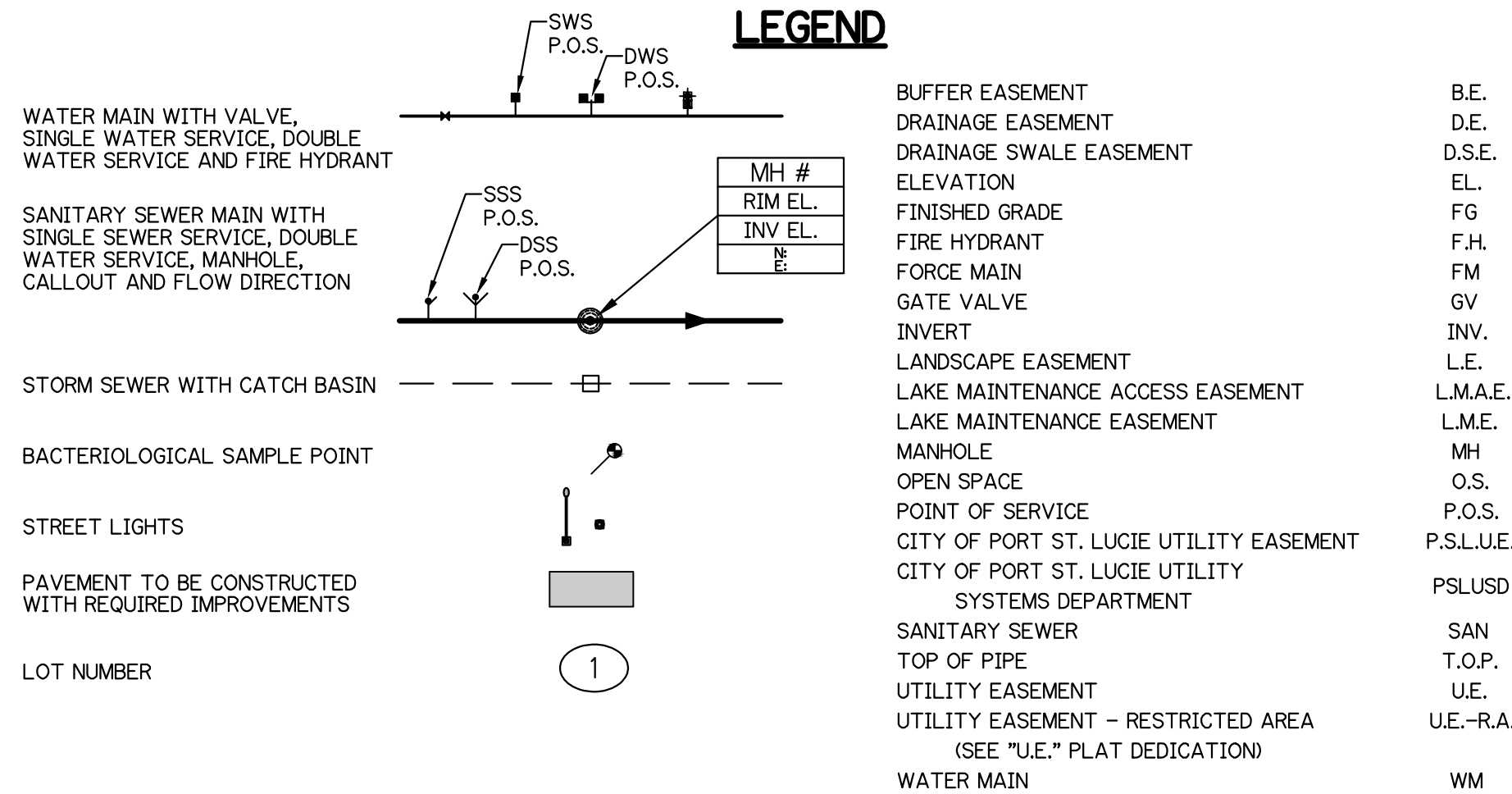
SHEET 2 OF 10

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WATER AND SEWER PLAN
FOR
RIVERLAND-PARCEL A
PLAT TWELVE

REVISIONS	DATE	BY	CK

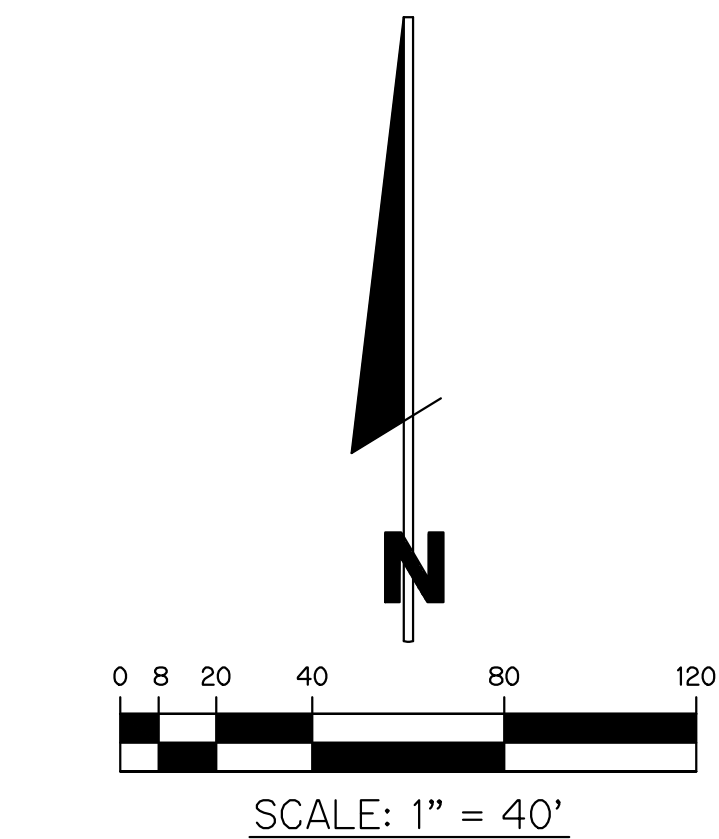
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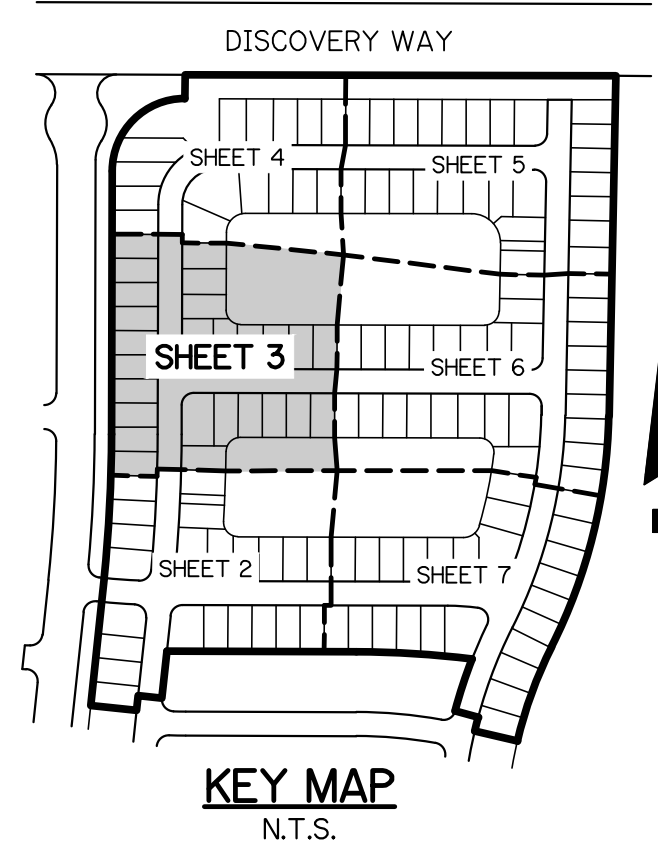
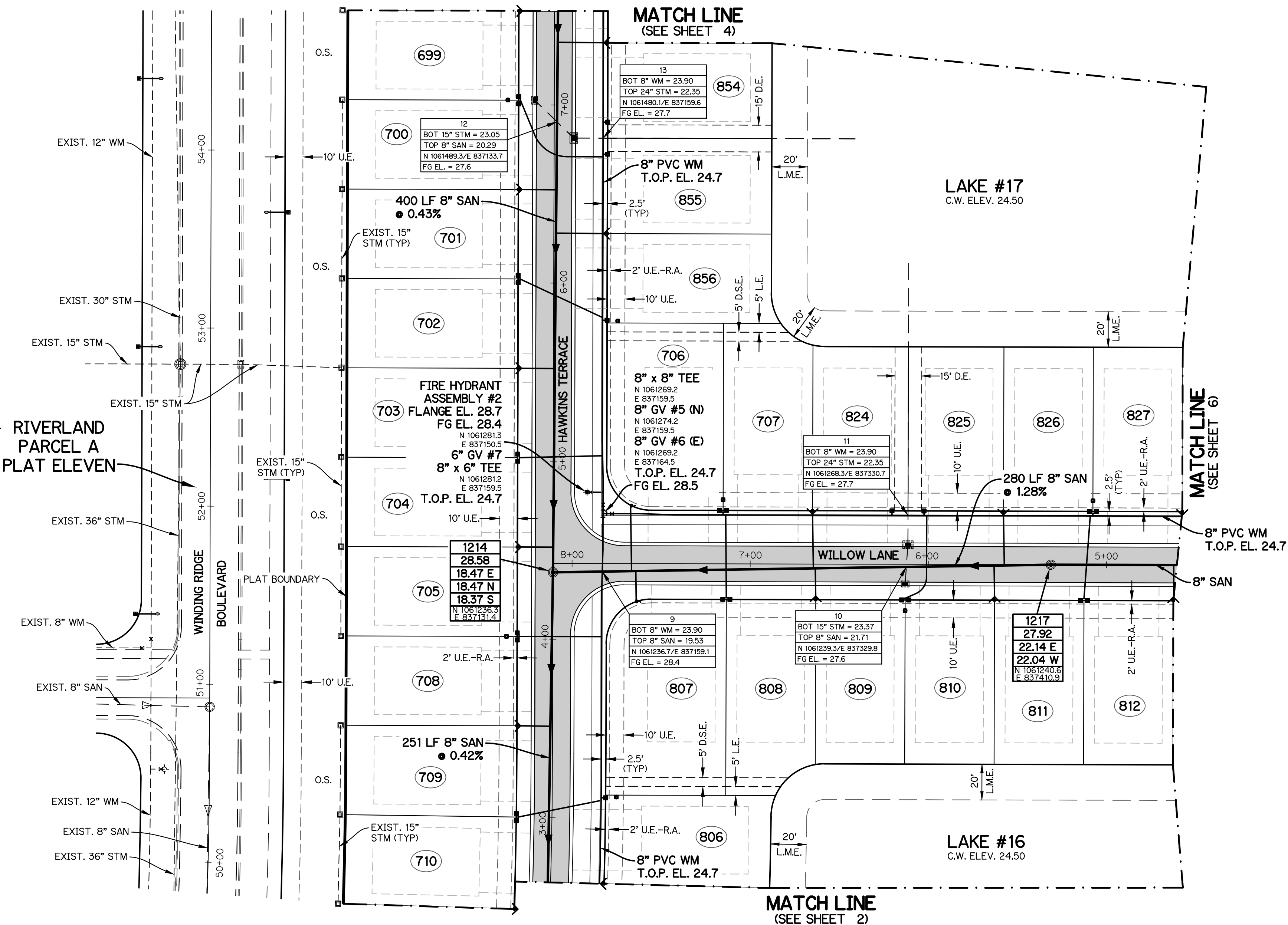
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SHEET 3 OF 10



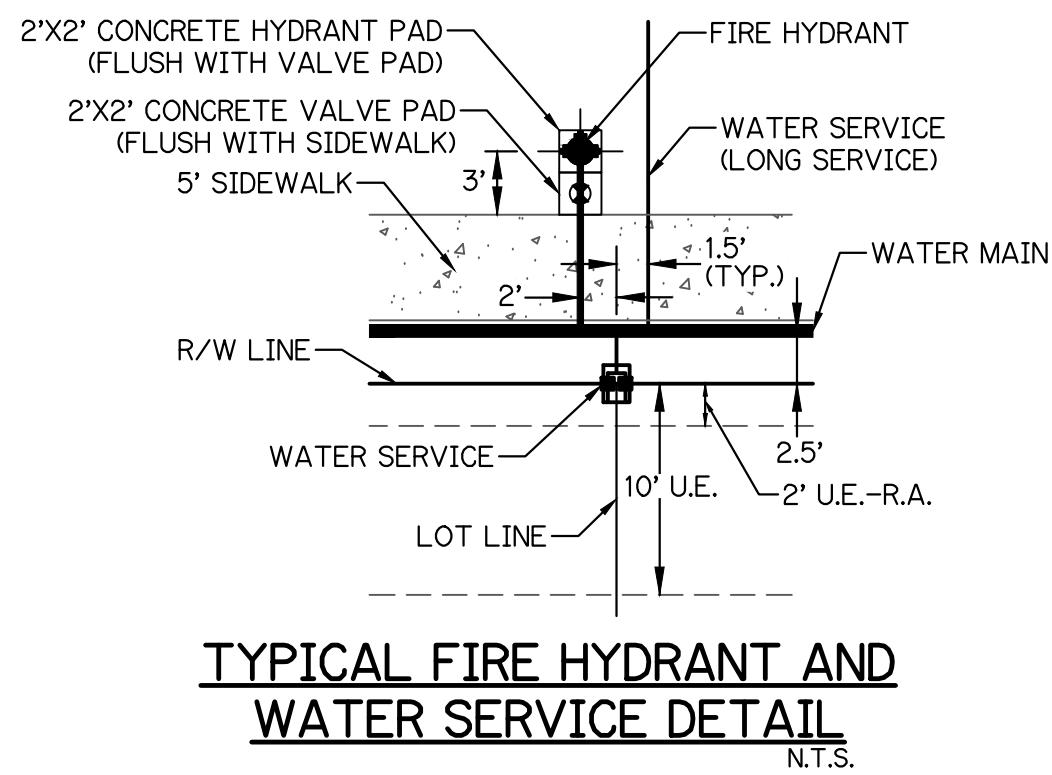
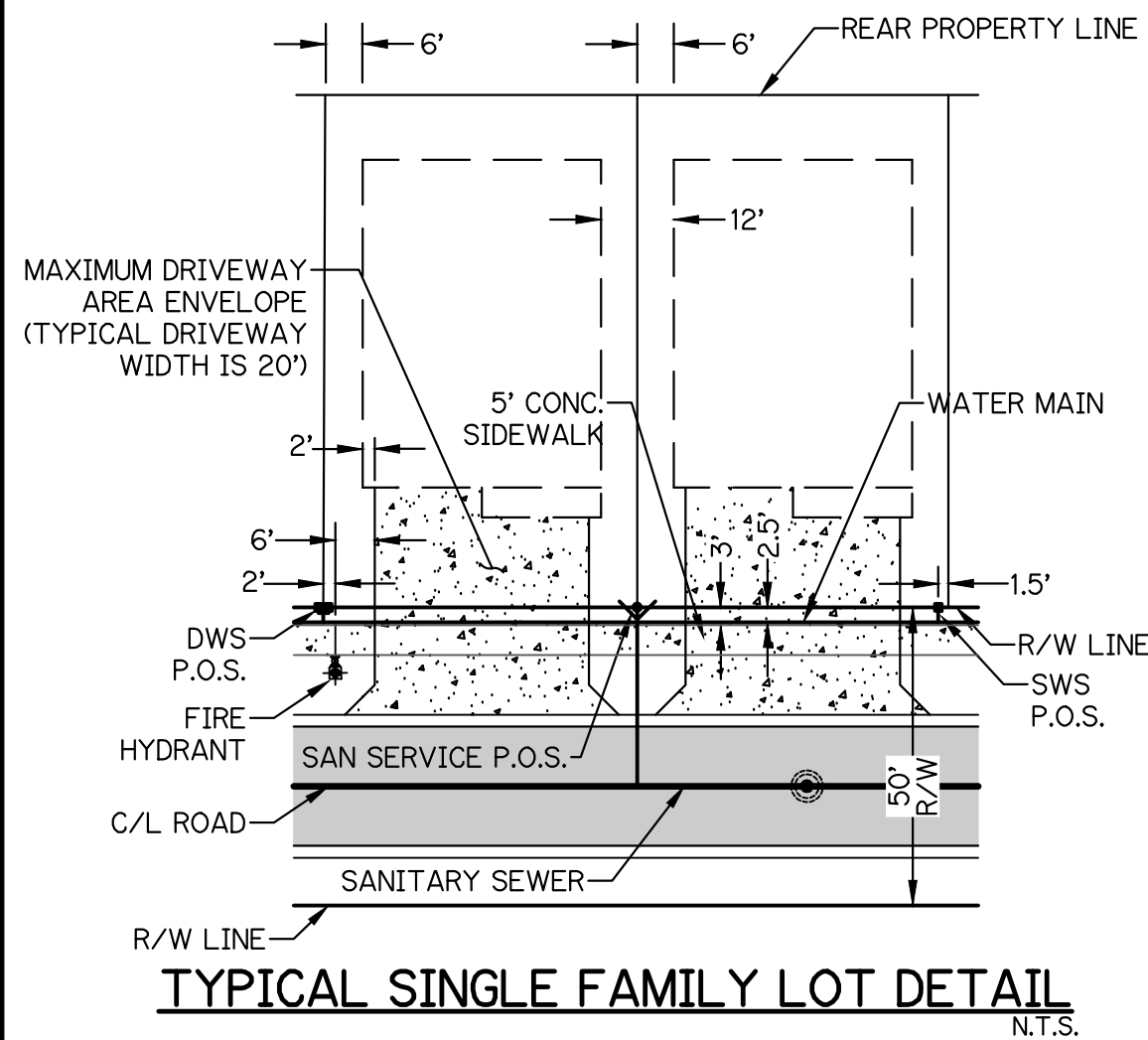
WATER AND SANITARY SERVICES			
LOT No.	TYPE	DESIGN COORDINATE	AS-BUILT COORDINATE
698/699	DSS	N 1061551.7/E 837112.3	-
699/700	DWS	N 1061501.5/E 837112.1	-
700/701	DSS	N 1061451.3/E 837112.0	-
701/702	DWS	N 1061401.1/E 837111.9	-
702/703	DSS	N 1061350.9/E 837111.7	-
703/704	DWS	N 1061300.7/E 837111.6	-
704/705	DSS	N 1061250.5/E 837111.4	-
705/706	DWS	N 1061200.3/E 837111.3	-
706/707	DSS	N 1061150.1/E 837111.2	-
707/708	DWS	N 1061098.8/E 837111.0	-
708/709	DSS	N 1061047.1/E 837109.7	-
709/710	DSS	N 1061061.3/E 837160.1	-
710/711	DSS	N 106109.6/E 837161.0	-
805/806	DSS	N 1061221.2/E 837186.4	-
806	SWS	N 1061221.1/E 837228.7	-
807	SWS	N 1061220.9/E 837278.9	-
807/808	DSS	N 1061220.8/E 837329.1	-
808/809	DSS	N 1061220.6/E 837379.3	-
809/810	DSS	N 1061220.5/E 837429.5	-
810/811	DSS	N 1061220.4/E 837479.7	-
811/812	DSS	N 1061273.8/E 837175.5	-
812/813	DSS	N 1061271.1/E 837226.9	-
706/707	DWS	N 1061270.9/E 837277.1	-
707/824	DSS	N 1061270.8/E 837321.7	-
824	SWS	N 1061270.6/E 837384.3	-
825	SWS	N 1061270.5/E 837434.5	-
825/826	DSS	N 1061270.4/E 837484.7	-
826/827	DSS	N 1061533.7/E 837162.2	-
827/828	DSS	N 1061489.1/E 837162.1	-
853/854	DSS	N 1061471.1/E 837162.0	-
854	SWS	N 1061426.5/E 837161.9	-
855	SWS	N 1061377.8/E 837162.0	-
855/856	DSS	-	-
856	SWS	-	-

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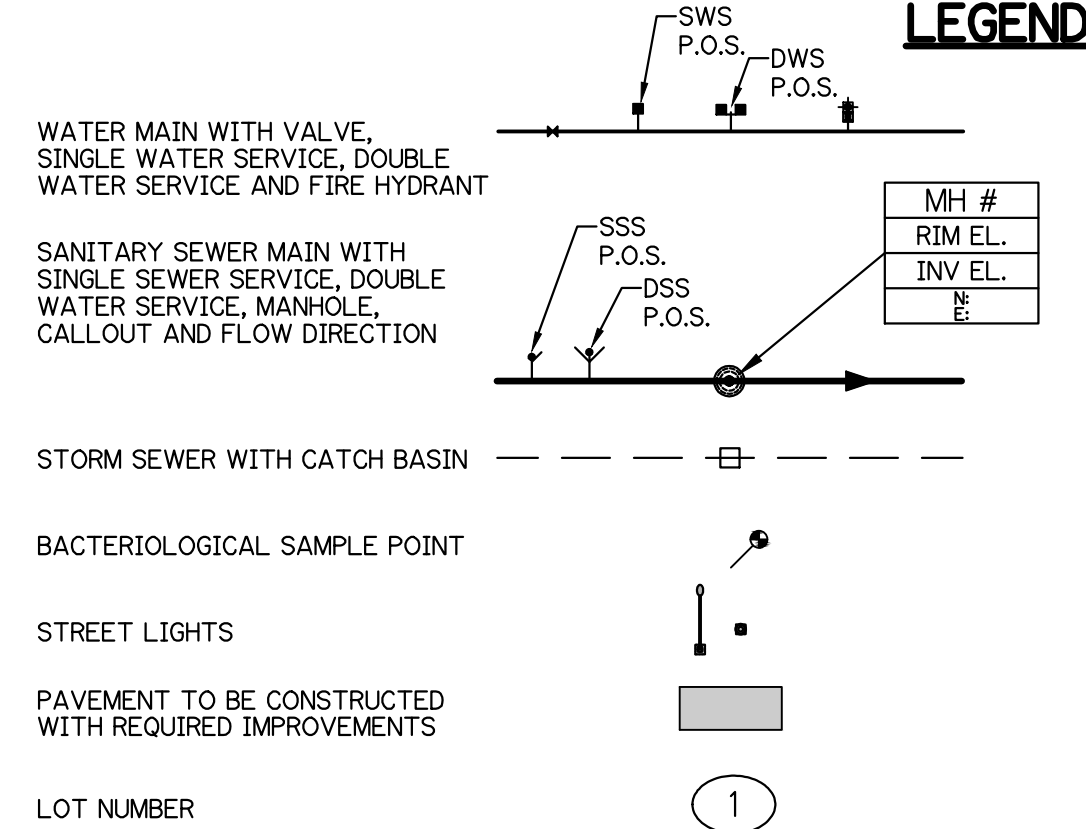


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- BUFFER EASEMENT
- DRAINAGE EASEMENT
- DRAINAGE SWALE EASEMENT
- ELEVATION
- FINISHED GRADE
- FIRE HYDRANT
- FORCE MAIN
- GATE VALVE
- INVERT
- LANDSCAPE EASEMENT
- LAKE MAINTENANCE ACCESS EASEMENT
- LAKE MAINTENANCE EASEMENT
- MANHOLE
- OPEN SPACE
- POINT OF SERVICE
- CITY OF PORT ST. LUCIE UTILITY EASEMENT
- CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT
- SANITARY SEWER
- TOP OF PIPE
- UTILITY EASEMENT
- UTILITY EASEMENT - RESTRICTED AREA (SEE "U.E." PLAT DEDICATION)
- WATER MAIN

- B.E.
- D.E.
- D.S.E.
- EL.
- FG
- F.H.
- FM
- GV
- INV.
- L.E.
- L.M.A.E.
- L.M.E.
- MH
- O.S.
- P.O.S.
- P.S.L.U.E.
- PSLUSD
- SAN
- T.O.P.
- U.E.
- U.E.-R.A.
- WM

WATER AND SEWER PLAN FOR RIVERLAND-PARCEL A PLAT TWELVE

REVISIONS	DATE	BY	CK

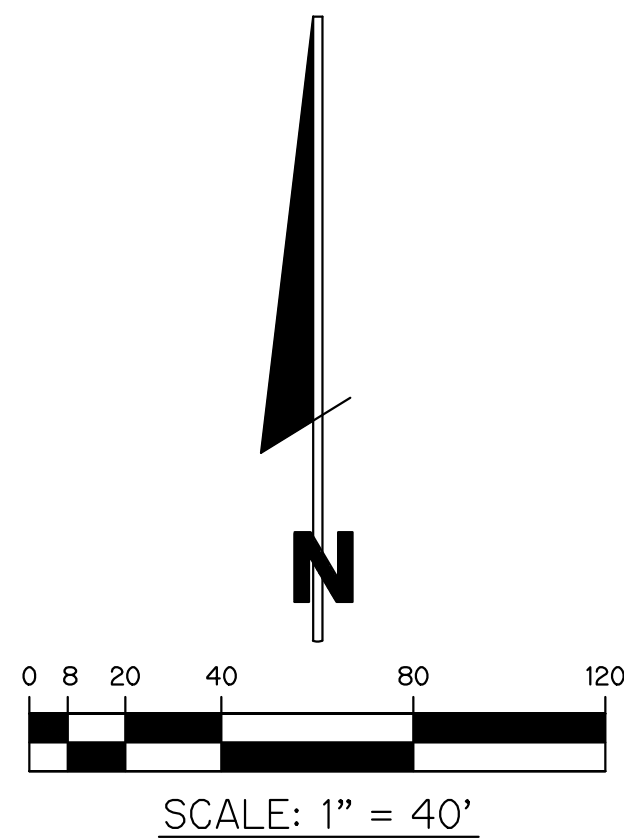
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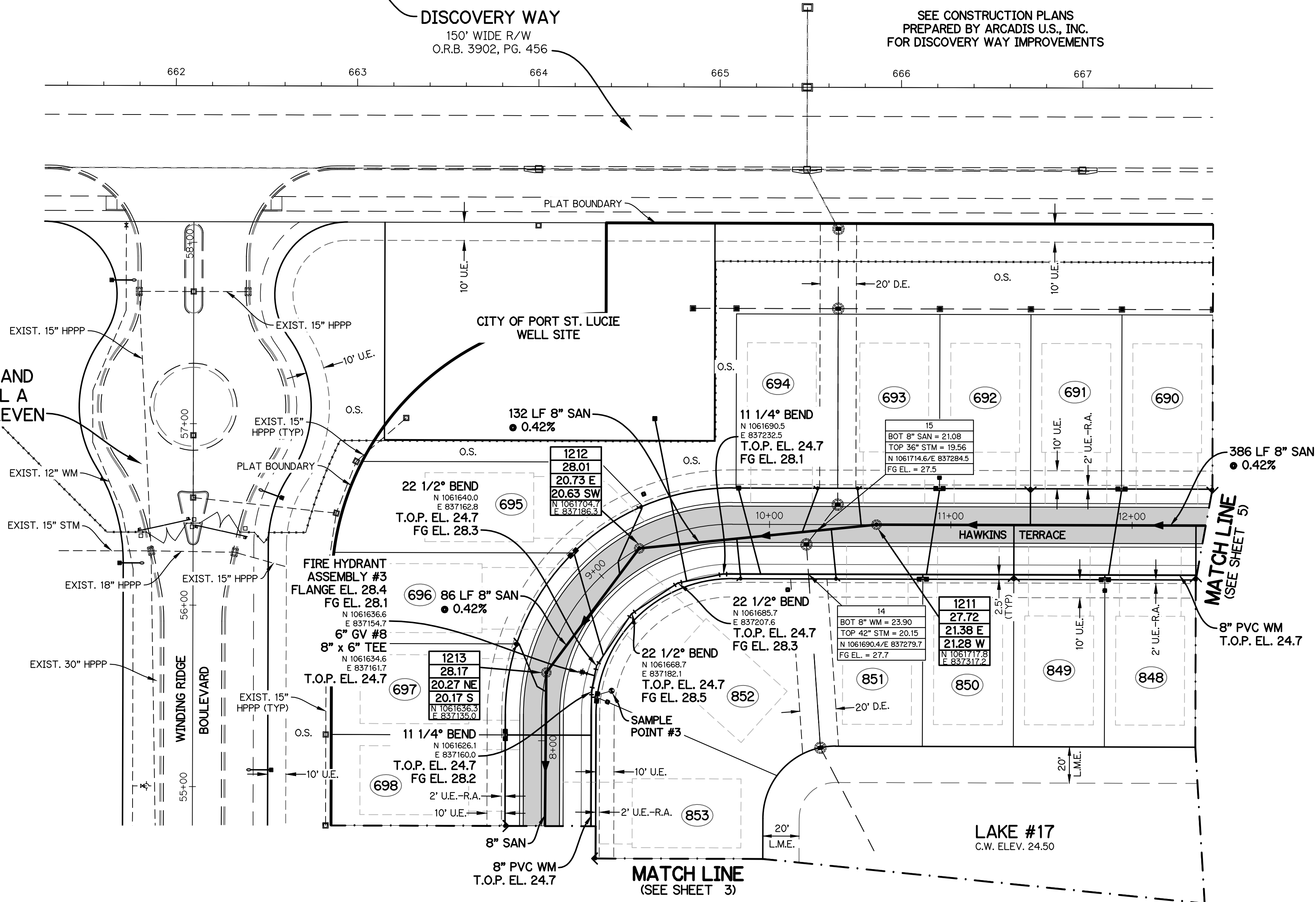
MATTHEW WOODS, P.E.
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RIV-A PL12 WS

SHEET 4 OF 10



RIVERLAND PARCEL A PLAT ELEVEN

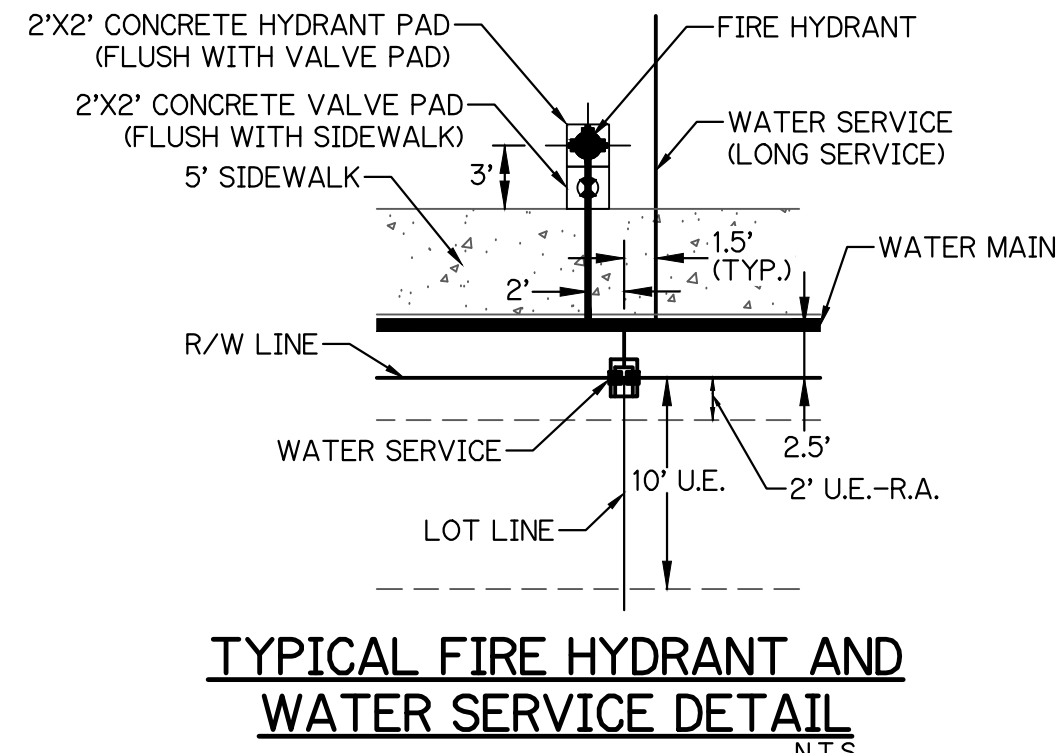
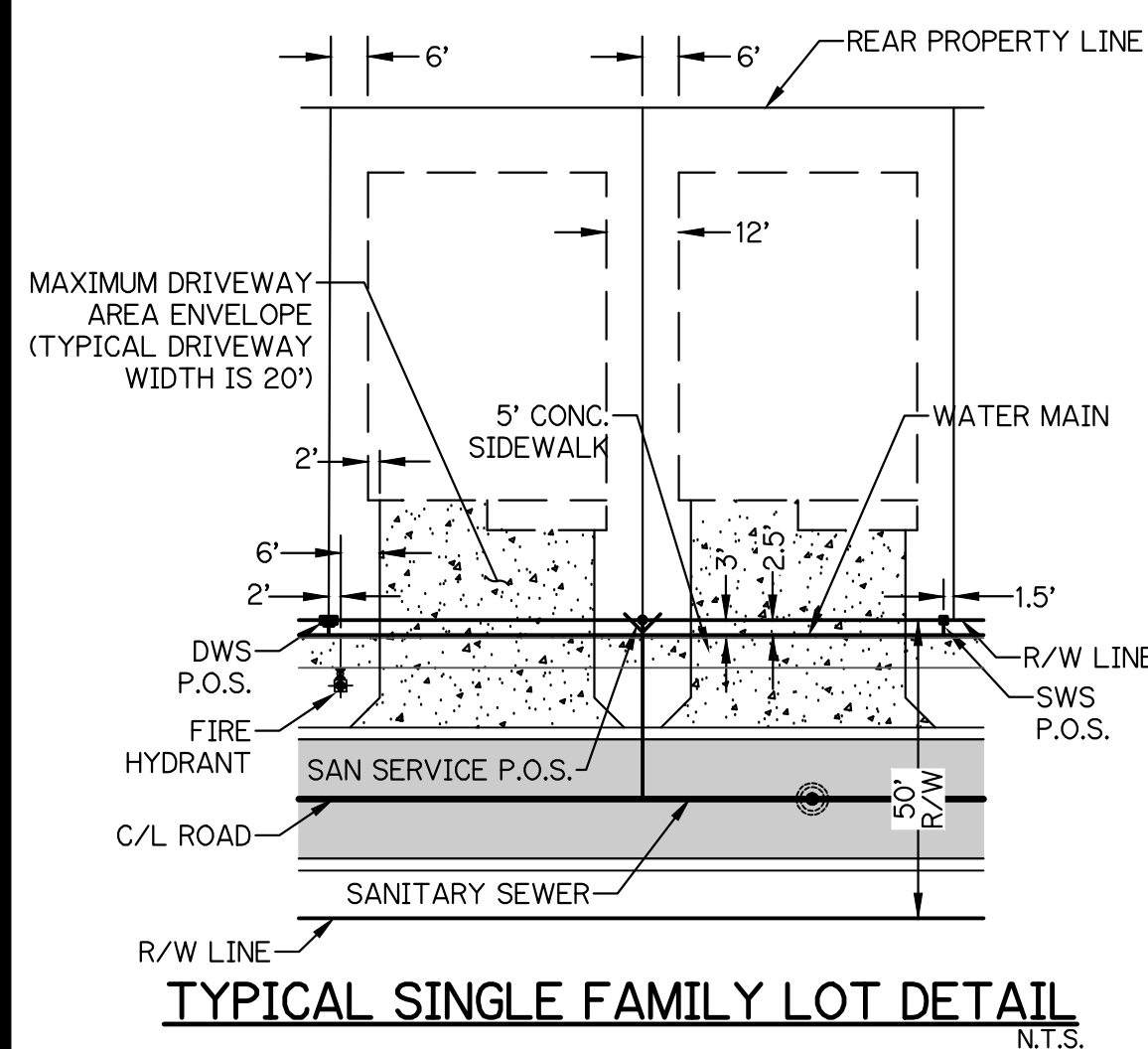


WATER AND SANITARY SERVICES			
LOT No.	TYPE	DESIGN COORDINATE	AS-BUILT COORDINATE
689/690	DSS	N 1061737.3/E 837502.5	-
690/691	DWS	N 1061737.5/E 837452.3	-
691/692	DSS	N 1061737.6/E 837402.1	-
692/693	DWS	N 1061737.7/E 837351.9	-
693	SSS	N 1061737.8/E 837306.8	-
694	SSS	N 1061737.9/E 837284.8	-
694	SWS	N 1061738.0/E 837241.2	-
695	SSS	N 1061727.5/E 837187.3	-
695/696	DWS	N 1061702.2/E 837149.8	-
696/697	DSS	N 1061652.1/E 837118.7	-
697/698	DWS	N 1061601.9/E 837112.4	-
698/699	DSS	N 1061551.7/E 837112.3	-
847/848	DSS	N 1061687.3/E 837493.3	-
848/849	DWS	N 1061687.5/E 837443.1	-
849/850	DSS	N 1061687.6/E 837392.9	-
850/851	DWS	N 1061687.7/E 837342.7	-
851	SSS	N 1061687.9/E 837294.9	-
852	SSS	N 1061688.0/E 837242.2	-
852/853	DWS	N 1061622.6/E 837163.0	-
853/854	DSS	N 1061533.7/E 837162.2	-
WELL SITE	SWS	N 1061776.3/E 837194.9	-

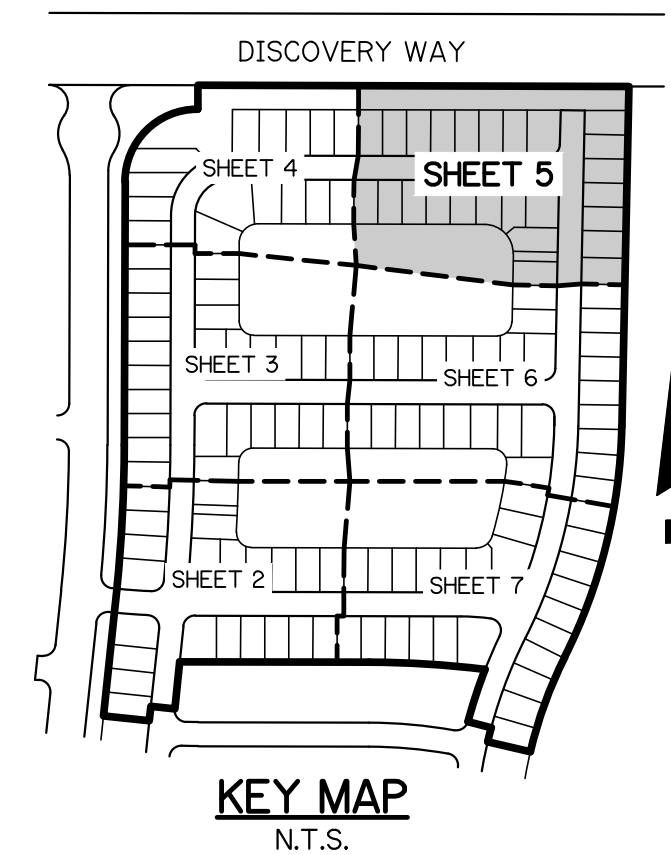
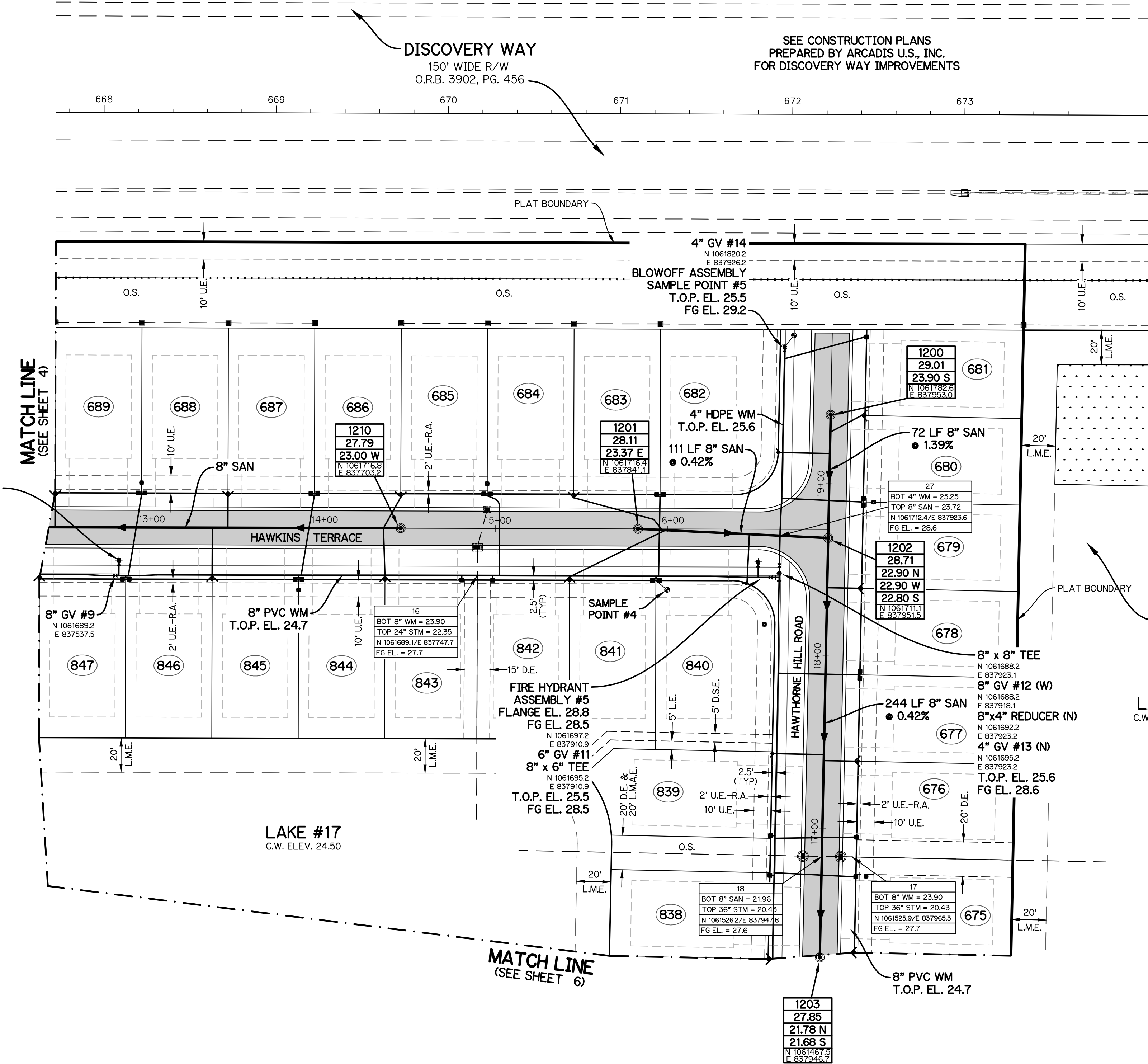
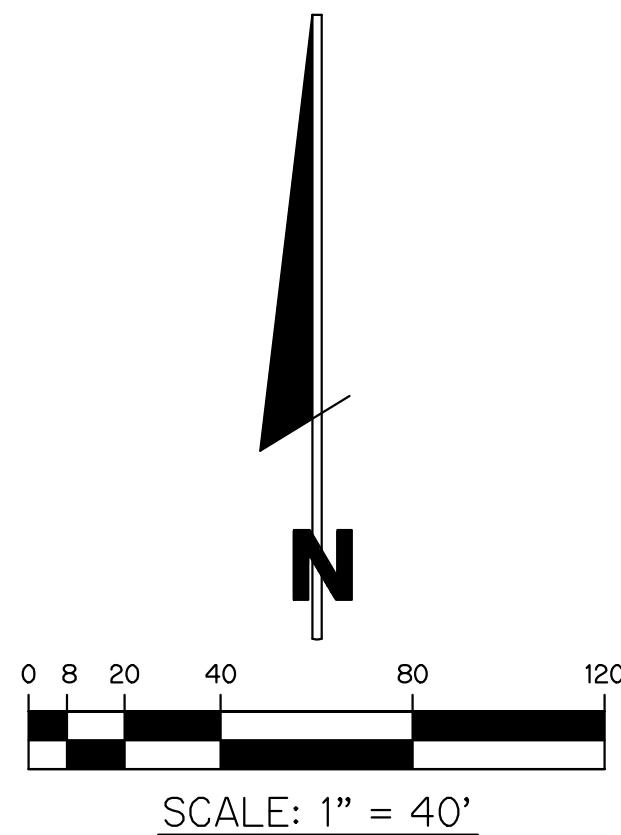
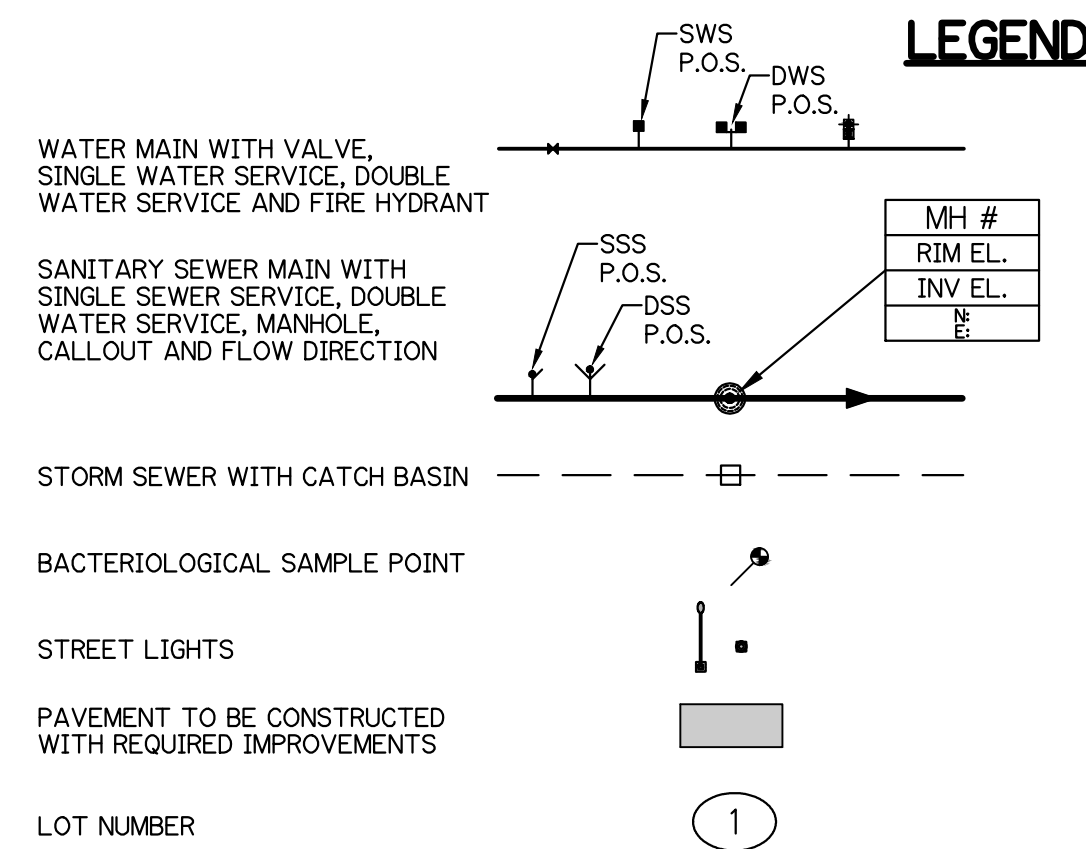
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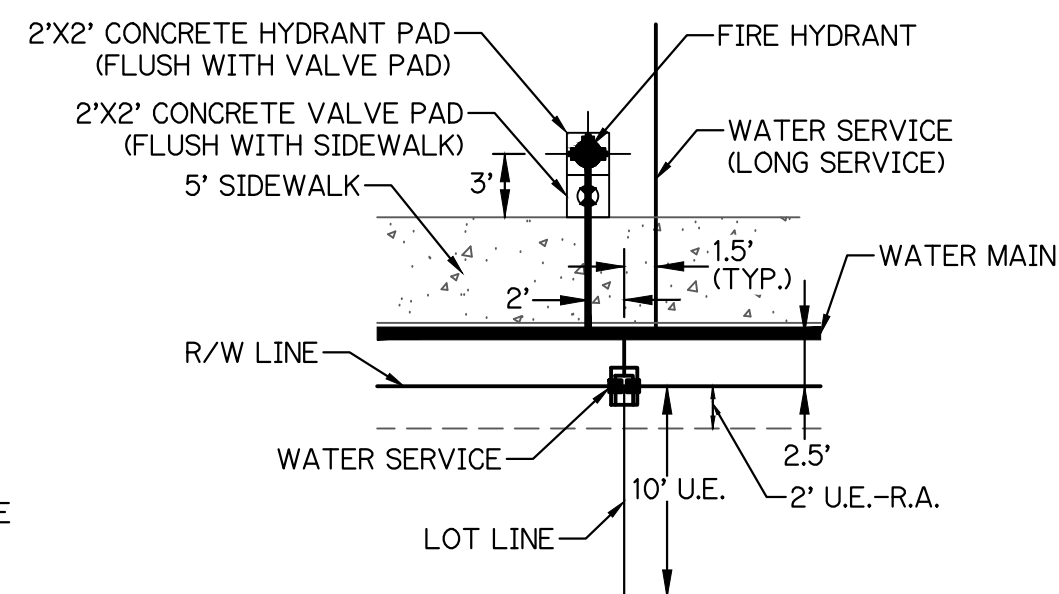
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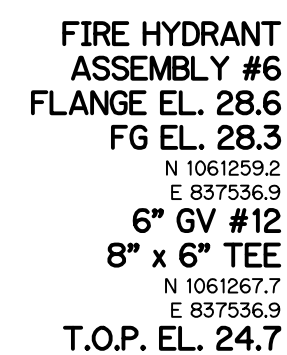
RIV-A PL12 | WS

SHEET 5 OF 10

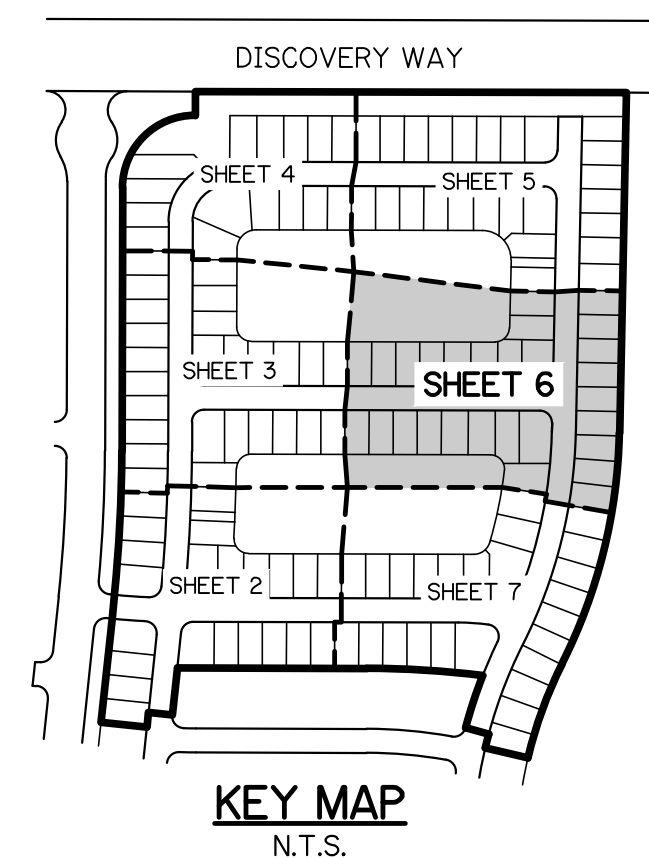


TYPICAL SINGLE FAMILY LOT DETAIL

-
- LEGEND**
- | WATER MAIN WITH VALVE,
SINGLE WATER SERVICE, DOUBLE
WATER SERVICE AND FIRE HYDRANT | SSWS
P.O.S. | DWS
P.O.S. | <table border="1"> <thead> <tr> <th>MH #</th> </tr> </thead> <tbody> <tr> <td>RIM EL.</td> </tr> <tr> <td>INV EL.</td> </tr> <tr> <td>IN</td> </tr> </tbody> </table> | MH # | RIM EL. | INV EL. | IN |
|---|----------------|---------------|---|------|---------|---------|----|
| MH # | | | | | | | |
| RIM EL. | | | | | | | |
| INV EL. | | | | | | | |
| IN | | | | | | | |
| SANITARY SEWER MAIN WITH
SINGLE SEWER SERVICE, DOUBLE
WATER SERVICE, MANHOLE,
CALLOUT AND FLOW DIRECTION | SSS
P.O.S. | DSS
P.O.S. | | | | | |
| STORM SEWER WITH CATCH BASIN | — — — — — | | | | | | |
| BACTERIOLOGICAL SAMPLE POINT | | | | | | | |
| STREET LIGHTS | | | | | | | |
| PAVEMENT TO BE CONSTRUCTED
WITH REQUIRED IMPROVEMENTS | | | | | | | |
| LOT NUMBER | | | | | | | |
| | | | BUFFER EASEMENT | | | | |
| | | | DRAINAGE EASEMENT | | | | |
| | | | DRAINAGE SWALE EASEMENT | | | | |
| | | | ELEVATION | | | | |
| | | | FINISHED GRADE | | | | |
| | | | FIRE HYDRANT | | | | |
| | | | FORCE MAIN | | | | |
| | | | GATE VALVE | | | | |
| | | | INVERT | | | | |
| | | | LANDSCAPE EASEMENT | | | | |
| | | | LAKE MAINTENANCE ACCESS EASEMENT | | | | |
| | | | LAKE MAINTENANCE EASEMENT | | | | |
| | | | MANHOLE | | | | |
| | | | OPEN SPACE | | | | |
| | | | POINT OF SERVICE | | | | |
| | | | CITY OF PORT ST. LUCIE UTILITY EASEMENT | | | | |
| | | | CITY OF PORT ST. LUCIE UTILITY
SYSTEMS DEPARTMENT | | | | |
| | | | SANITARY SEWER | | | | |
| | | | TOP OF PIPE | | | | |
| | | | UTILITY EASEMENT | | | | |
| | | | UTILITY EASEMENT - RESTRICTED AREA
(SEE "U.E." PLAT DEDICATION) | | | | |
| | | | WATER MAIN | | | | |



SWS = SINGLE WATER SERVICE, DWS = DOUBLE WATER SERVICE
SSS = SINGLE SEWER SERVICE, DSS = DOUBLE SEWER SERVICE



P19-050 (PSLUSD 5203L)

RIVERLAND-PARCEL A
PLAT TWELVE

B.E.
D.E.
D.S.E.
EL.
FG
F.H.
FM
GV
INV.
L.E.
L.M.A.E.
L.M.E.
MH
O.S.
P.O.S.
P.S.L.U.E.
PSLUSD
SAN
T.O.P.
U.E.
U.E.-R.A.
WM

[illegible]

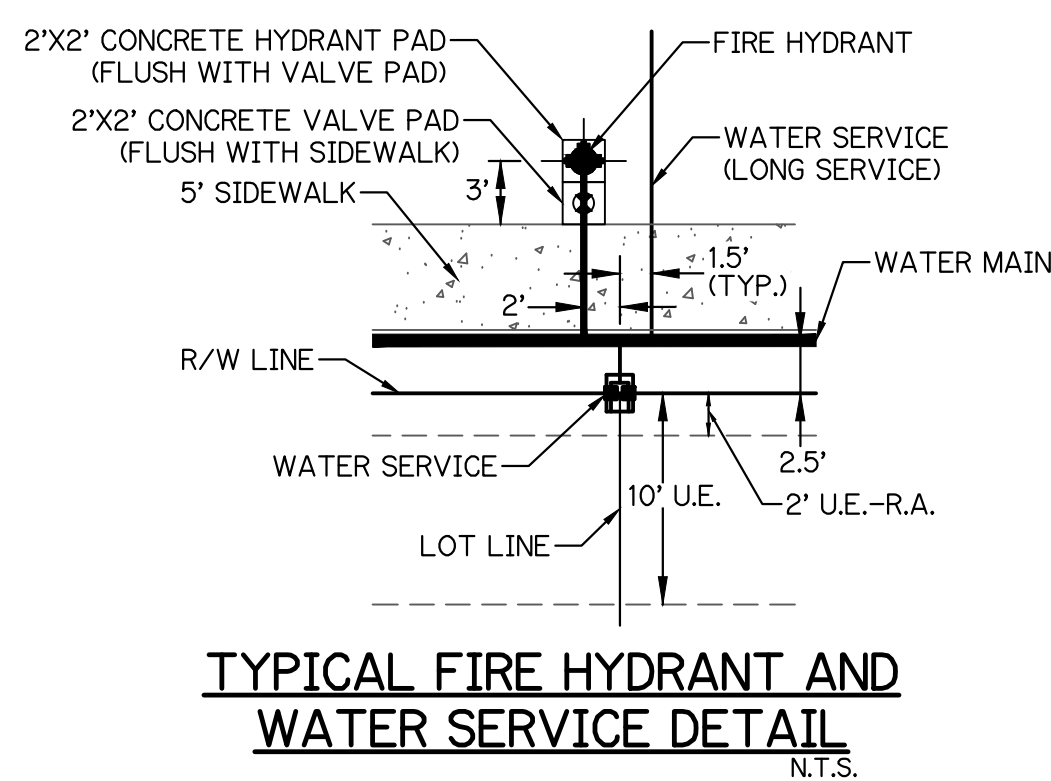
GLH ENGINEERING, LLC
1600 SAWGRASS CORPORATE
PARKWAY, SUITE 400
SUNRISE, FLORIDA 33323
PHONE: (954) 753-1730

SCALE: 1"=40'
DATE: 5/16/19
DESIGNED BY: AQO
CHECKED BY: MW
FILE NAME:
RIV-A PL12 WS

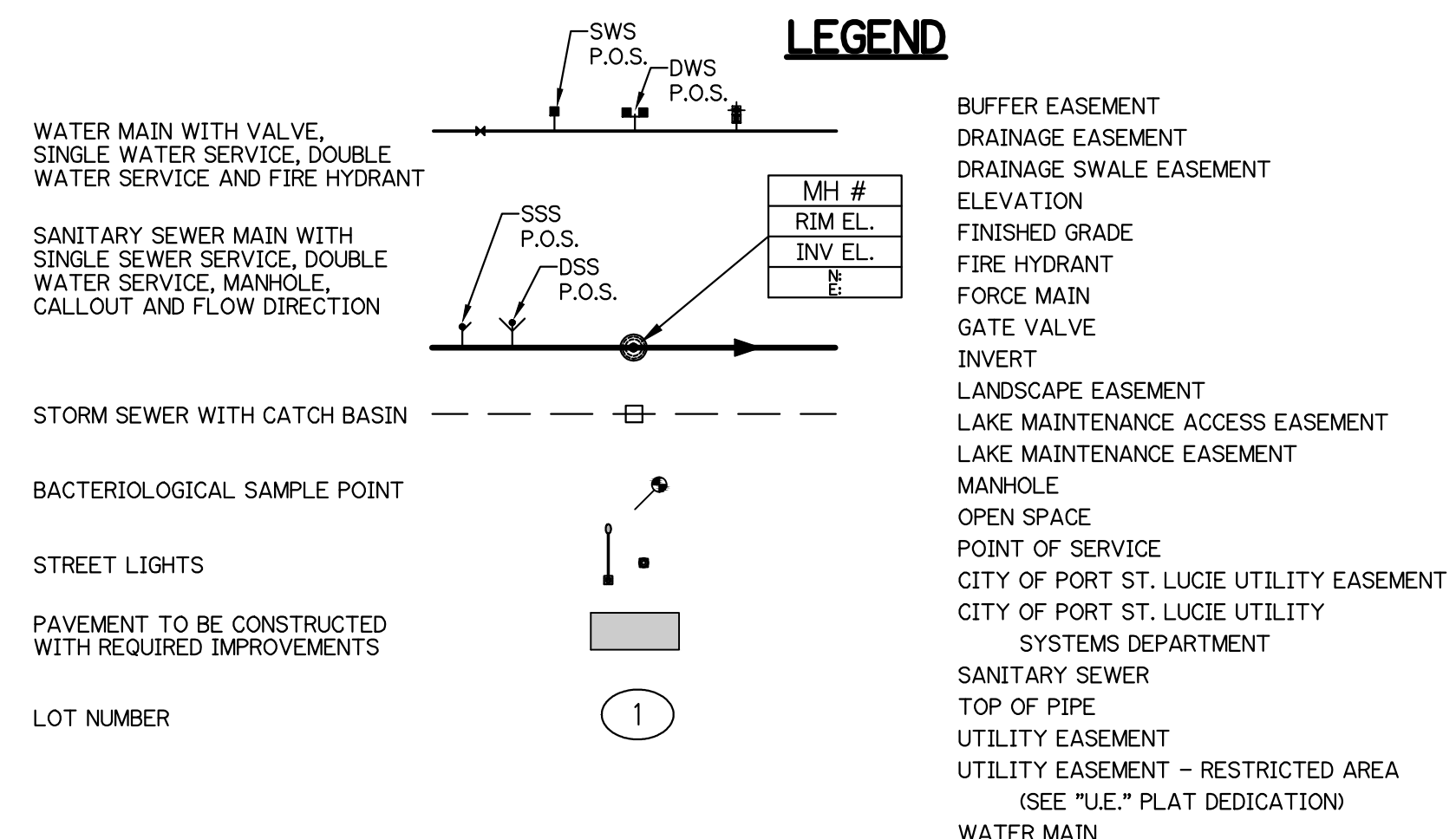
MATTHEW WOODS, P.E.
FLORIDA P.E. #68342

RIV-A PL12	WS
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SHEET 6 OF 10



- NOTES:**
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT (PSLUSD) UTILITY STANDARDS MANUAL, 2019 EDITION AS WELL AS THE PSLUSD UTILITY STANDARD DETAILS, 2019 EDITION. A COPY OF THE 2019 EDITION OF THE PSLUSD UTILITY STANDARDS MANUAL AND UTILITY STANDARD DETAILS SHALL BE AVAILABLE ON-SITE AT ALL TIMES UTILITY RELATED WORK IS BEING PERFORMED.
 2. PRIOR TO CONSTRUCTION IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY (ELEVATION AND LOCATION) ALL EXISTING UTILITIES. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR (EOR) TO CONTINUATION OF WORK.
 3. THERE SHALL BE NO FIELD CHANGES OR DEVIATIONS FROM DESIGN WITHOUT PRIOR WRITTEN APPROVAL OF THE PSLUSD AND EOR.
 4. ELEVATIONS - ALL ELEVATIONS REFERENCE TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). ALL WATER MAINS AND SEWER MAINS SHALL BE PVC, C-900, DR18 (PRESSURE CLASS 2525).
 5. ALL GRAVITY SEWER PIPE, FITTINGS AND SERVICE LINES SHALL BE PVC, SDR 26 AND, AS A MINIMUM, CONFORM TO ASTM D-3034.
 6. VALVES SHALL NOT BE PLACED IN CURBS, GUTTERS, SIDEWALKS, PARKING SPACES AND HANDICAP RAMPS, WHERE CONCRETE VALE PADS TO BE OWNED BY PSLUSD ARE ADJACENT TO SIDEWALKS, THE RAMPS SHALL BE POURED AS PART OF THE SIDEWALK POUR WITH NO JOINTS.
 7. PRIOR TO FINAL UTILITY TIE-INS AND TIE-INS, THE CONTRACTOR SHALL LOCATE ALL CURBS FOR THIS PLAT, THE WATER MAIN SHALL BE LOOPED TO THE ULTIMATE TIE-IN LOCATION AT THE NORTH END OF RIVERLAND PARCEL, A ON DISCOVERY WAY. THIS IS ANTICIPATED TO BE COMPLETE BY MAY 2020.



B.E.
D.E.
D.S.E.
EL.
FG
F.H.
FM
GV
INV.
L.E.
L.M.A.E.
L.M.E.
MH
O.S.
P.O.S.
P.S.L.U.E.
PSLUSD
SAN
T.O.P.
U.E.
U.E.-R.A.
WM

WATER AND SEWER PLAN

RIVERLAND-PARCEL A
FOR
PLAT TWELVE

[illegible]

GLH ENGINEERING, LLC
1600 SAWGRASS CORPORATE
PARKWAY, SUITE 400
SUNRISE, FLORIDA 33323
PHONE: (954) 753-1730

SCALE: 1"=40'
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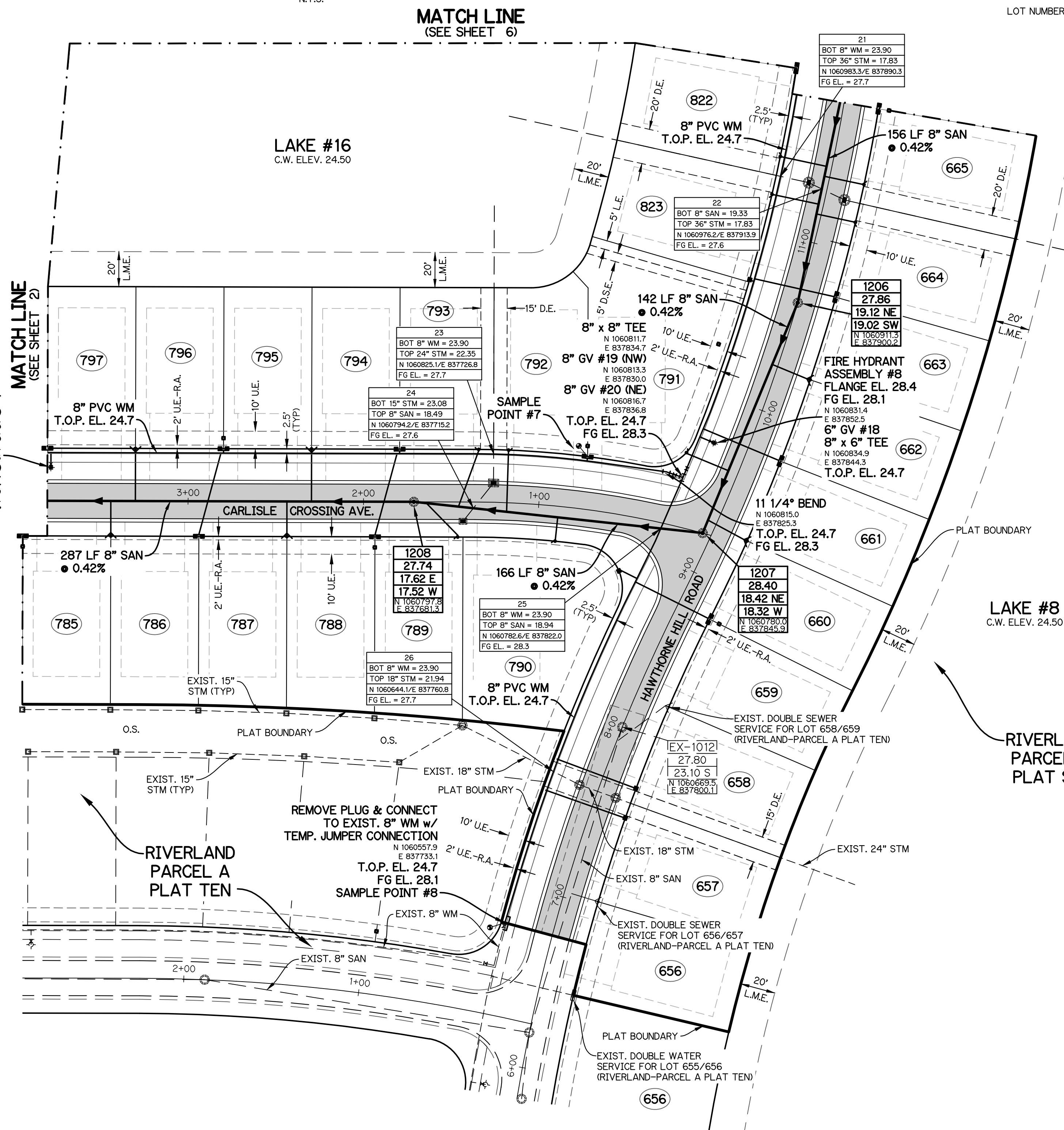
MATTHEW WOODS, P.E.
FLORIDA P.E. #68342

RIV-A PL12	WS
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SHEET 7 OF 10

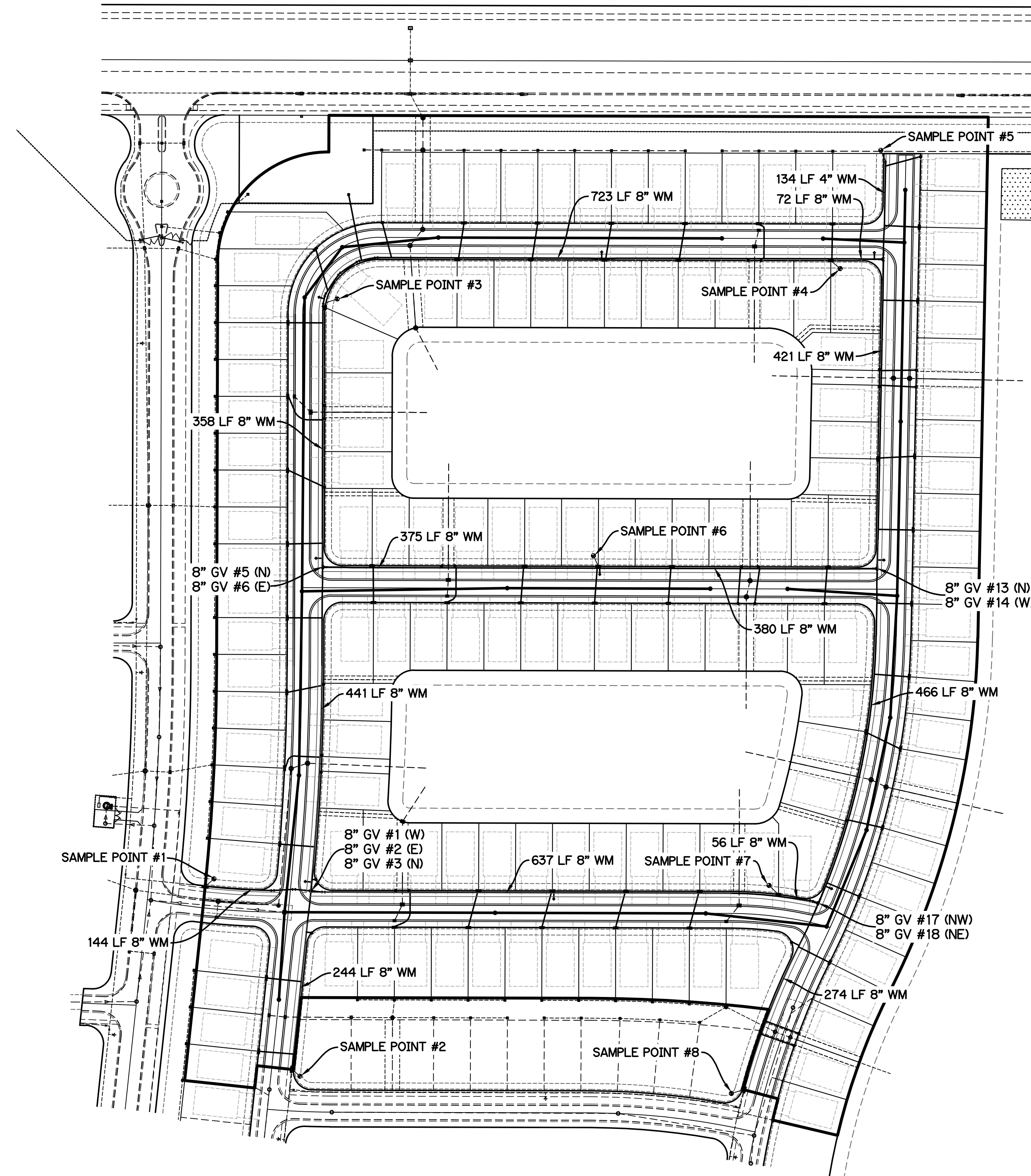
WATER AND SANITARY SERVICES			
LOT No.	TYPE	DESIGN COORDINATE	AS-BUILT COORDINATE
657	SWS	N 1060617.5/E 837901.8	-
658	SWS	N 1060634.4/E 837807.9	-
659/660	DWS	N 1060730.9/E 837850.0	-
660/661	DSS	N 1060775.5/E 837871.3	-
661/662	DSS	N 1060821.0/E 837890.4	-
662/663	DSS	N 1060867.4/E 837907.3	-
663/664	DSS	N 1060914.5/E 837921.9	-
664	SSS	N 1060957.2/E 837933.1	-
665	SSS	N 1060978.6/E 837937.9	-
665/666	DWS	N 1061022.0/E 837946.3	-
784/785	DSS	N 1060778.4/E 837458.3	-
785/786	DSS	N 1060778.3/E 837508.5	-
786/787	DSS	N 1060778.2/E 837558.7	-
787/788	DSS	N 1060778.0/E 837608.9	-
788/789	DSS	N 1060777.9/E 837659.1	-
789	SWS	N 1060777.9/E 837659.1	-
790	SSS	N 1060775.4/E 837761.8	-
790	SWS	N 1060758.4/E 837798.2	-
791	SSS	N 1060825.9/E 837836.7	-
791/792	DSS	N 1060823.6/E 837780.4	-
792	SSS	N 1060827.3/E 837735.3	-
793	SSS	N 1060827.7/E 837718.3	-
793/794	DWS	N 1060827.8/E 837673.2	-
794/795	DSS	N 1060828.0/E 837623.0	-
795/796	DSS	N 1060828.1/E 837572.8	-
796/797	DSS	N 1060828.3/E 837522.6	-
797/798	DSS	N 1060828.4/E 837472.4	-
821/822	DSS	N 1061045.1/E 837899.4	-
822	SSS	N 1060994.6/E 837690.2	-
823	SSS	N 1060973.2/E 837885.5	-
823	SWS	N 1060924.5/E 837877.8	-

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NOTE: ALL GRADES SHOWN ARE IN NAVD88

P19-050 (PSLUSD 5203L)



LEGEND

SAMPLE POINT

WATER MAIN

WM

0 50 100 200 300

SCALE: 1" = 100'

OVERALL WATER SAMPLE POINT MAP
FOR
RIVERLAND-PARCEL A
PLAT TWELVE

REVISIONS	DATE	BY	CK

GLH ENGINEERING, LLC
1600 SAWGRASS CORPORATE
PARKWAY, SUITE 400
SUNRISE, FLORIDA 33323
PHONE: (954) 753-1730

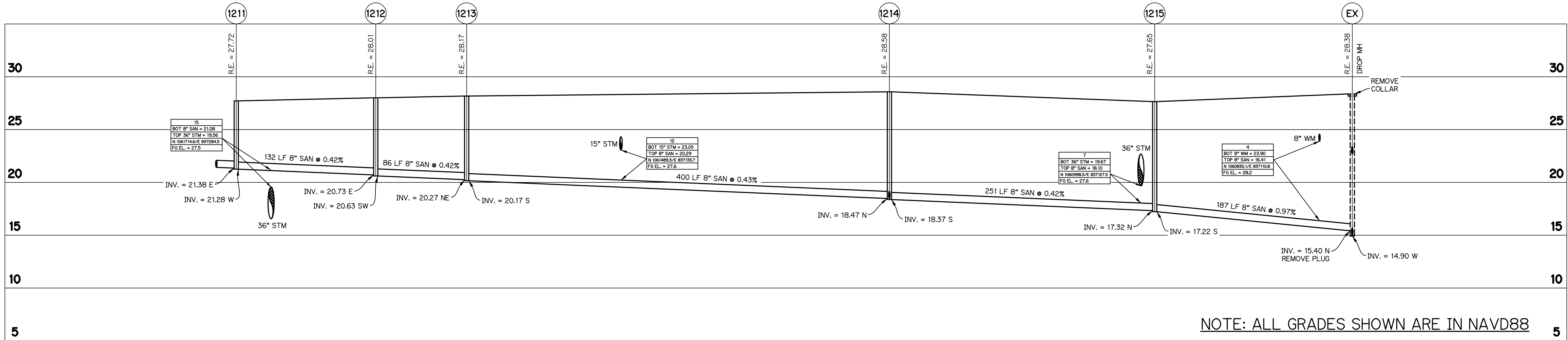
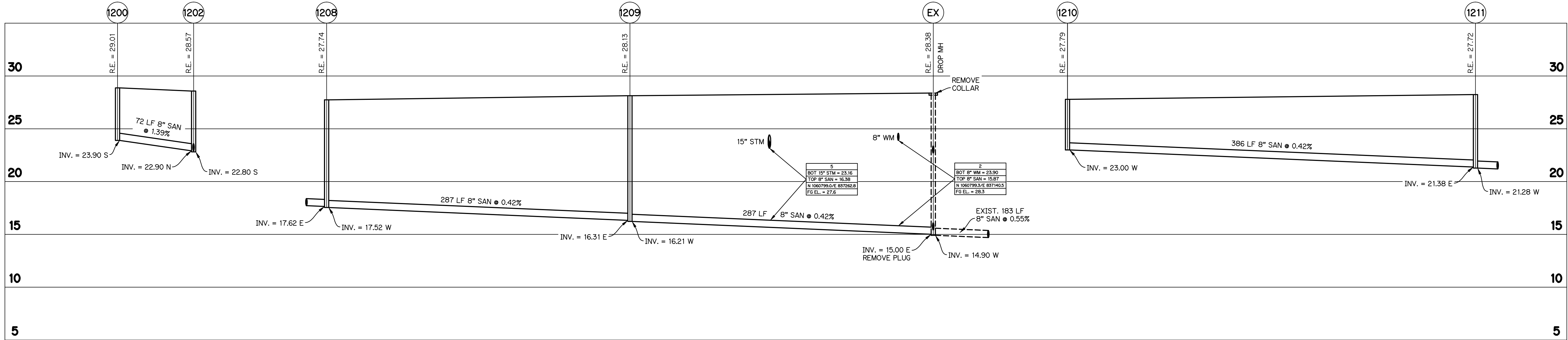
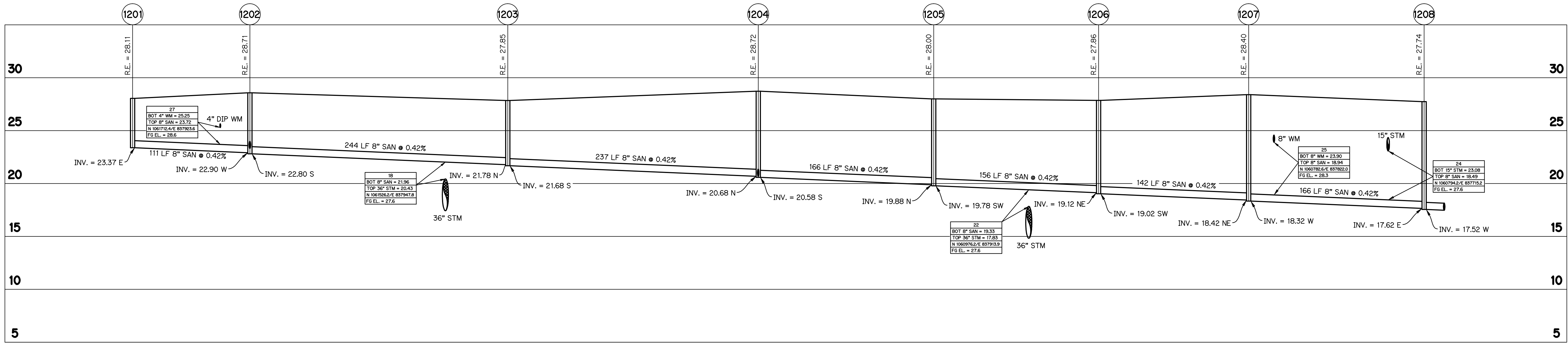
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DATE: 5/16/19
DESIGNED BY: AQC
CHECKED BY: MW
FILE NAME:
RIV-A PL12 WS

MATTHEW WOODS, P.E.
FLORIDA P.E. #68342

RIV-A PL12 WS

SHEET 8 OF 10

NOTE: ALL GRADES SHOWN ARE IN NAVD88
P19-050 (PSLUSD 5203L)



NOTE: ALL GRADES SHOWN ARE IN NAVD88

SEWER PROFILES
FOR
RIVERLAND-PARCEL A
PLAT TWELVE

REVISIONS	DATE	BY	CK

GLH ENGINEERING, LLC
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PARKWAY, SUITE 400
SUNRISE, FLORIDA 33323
PHONE: (954) 753-1730

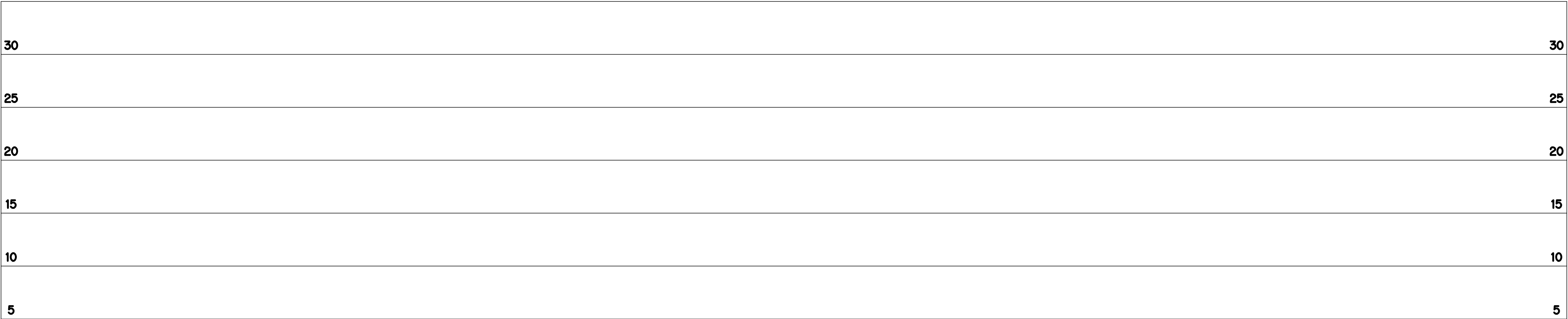
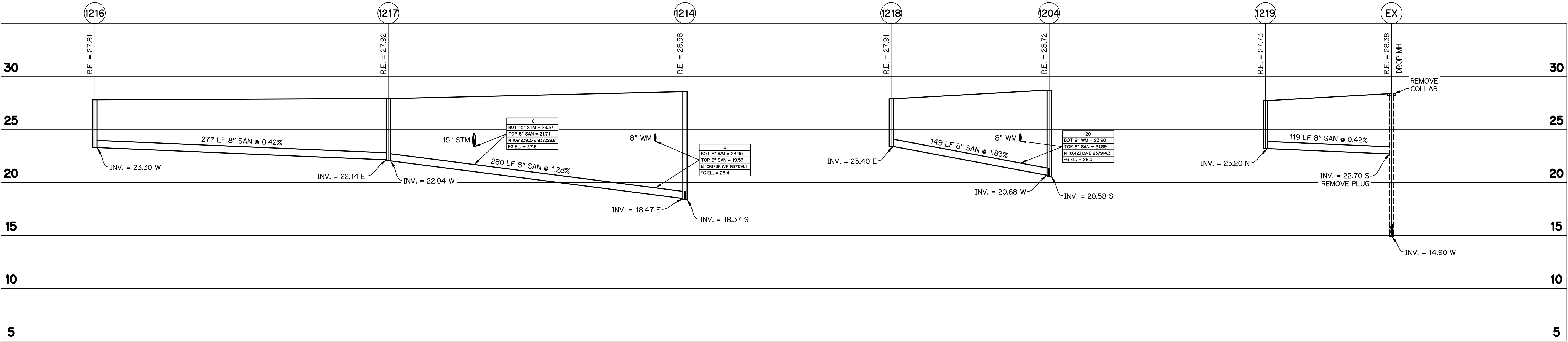
SCALE: HORIZ: 1"= 50'
VERT. 1"= 5'
DATE: 5/16/19
DESIGNED BY: AQC
CHECKED BY: MW
FILE NAME:
RIV-A PL12 WS

MATTHEW WOODS, P.E.
FLORIDA P.E. #68342

RIV-A PL12 | WS

SHEET 9 OF 10

P19-050 (PSLUSD 5203L)



NOTE: ALL GRADES SHOWN ARE IN NAVD88

P19-050 (PSLUSD 5203L)

SEWER PROFILES
FOR
RIVERLAND-PARCEL A
PLAT TWELVE

REVISIONS	DATE	BY	CK

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PARKWAY, SUITE 400
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MATTHEW WOODS, P.E.
FLORIDA P.E. #68342
RIV-A PL12 | WS
SHEET 10 OF 10