THIS IS AN INSUBSTANTIAL CHANGE TO PL20170000434

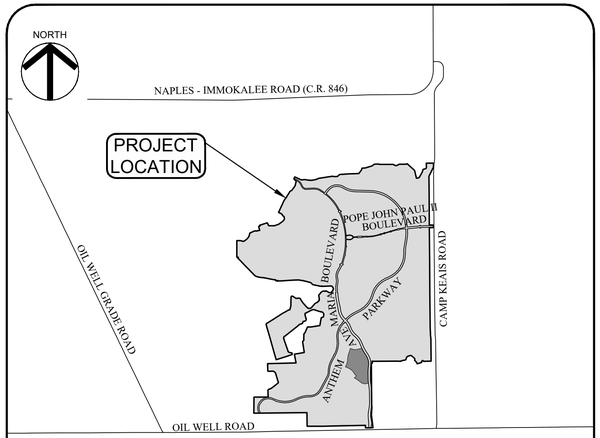
PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

PART OF SECTIONS 8 & 17 TOWNSHIP 48 SOUTH, RANGE 29 EAST

COLLIER COUNTY, FLORIDA



PROJECT LOCATION MAP

NO SCALE

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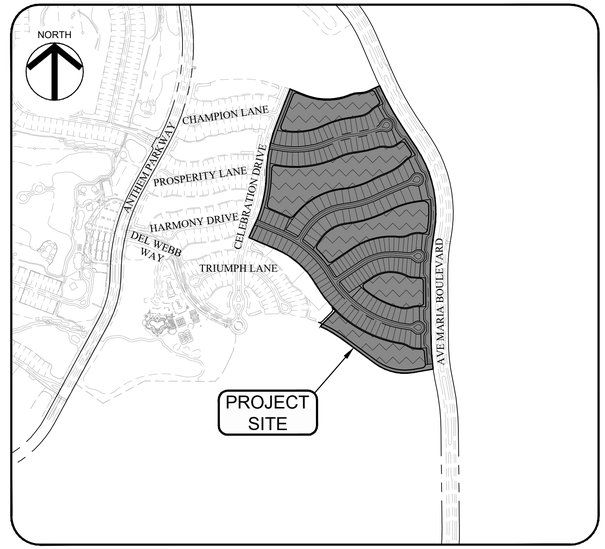

PROJECT SITE MAP

NO SCALE

PROPERTY INFORMATION

FOLIO #	29817016268
	29817016284
	29817015146
	29817015120
	29817014341
	29817014325
	29817013449
	29817013423
	29817012741
	29817013009
DRI - AR #	6293
DRI RESOLUTION #	2005-235
SRA - AR #	6896
SRA RESOLUTION #	2005-234A
ORDINANCE #	03-54
ZONING	A-MHO / SRA OVERLAY

BUILDING PARAMETERS

BUILDING USE	SINGLE FAMILY
MAX FLOOR AREA	5,000 S.F.
TYPE OF CONSTRUCTION	TYPE VB
FIRE SPRINKLERS	NO
OCCUPANCY	R-3

PROPERTY DESCRIPTION

LEGAL DESCRIPTION

BEING A PORTION OF TRACT "L1", AVE MARIA PHASE ONE, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 46, PAGES 16 THROUGH 29 (INCLUSIVE) AND A PORTION OF TRACT "L3R", DEL WEBB NAPLES PARCEL 213, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK ___, PAGES ___ THROUGH ___ (INCLUSIVE), TOGETHER WITH PORTIONS OF SECTIONS 8 AND 17, TOWNSHIP 48 SOUTH, RANGE 29 EAST, COLLIER COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE MOST NORTHEASTERLY CORNER OF DEL WEBB NAPLES PARCEL 204, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK ___, PAGES ___ THROUGH ___ (INCLUSIVE) OF THE PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA, THE SAME BEING A POINT ON THE BOUNDARY OF THOSE CERTAIN LANDS DESCRIBED AND RECORDED IN OFFICIAL RECORDS BOOK 5224, PAGES 2932 THROUGH (AS TO PARCEL 1); THENCE RUN THE FOLLOWING FOUR (4) COURSES ALONG THE BOUNDARY OF LAST SAID LANDS; COURSE NO. 1: SOUTH 68°33'40" EAST, 160.58 FEET TO A POINT OF CURVATURE; COURSE NO. 2: EASTERLY, 461.08 FEET ALONG THE ARC OF A CIRCULAR CURVE, CONCAVE NORTHERLY, HAVING A RADIUS OF 594.00 FEET, THROUGH A CENTRAL ANGLE OF 44°28'28" AND BEING SUBTENDED BY A CHORD THAT BEARS NORTH 89°12'06" EAST, 449.59 FEET TO A POINT OF REVERSE CURVATURE; COURSE NO. 3: EASTERLY, 86.46 FEET ALONG THE ARC OF A CIRCULAR CURVE, CONCAVE SOUTHERLY, HAVING A RADIUS OF 200.00 FEET, THROUGH A CENTRAL ANGLE OF 24°46'05" AND BEING SUBTENDED BY A CHORD THAT BEARS NORTH 79°20'55" EAST, 85.79 FEET TO A POINT OF REVERSE CURVATURE; COURSE NO. 4: EASTERLY, 95.07 FEET ALONG THE ARC OF A CIRCULAR CURVE, CONCAVE NORTHERLY, HAVING A RADIUS OF 205.00 FEET, THROUGH A CENTRAL ANGLE OF 26°34'17" AND BEING SUBTENDED BY A CHORD THAT BEARS NORTH 78°28'50" EAST, 94.22 FEET; THENCE CONTINUE ALONG LAST SAID LANDS AND ITS NORTHEASTERLY PROLONGATION, NORTH 65°09'41" EAST, A DISTANCE OF 120.61 FEET TO A POINT ON A NON-TANGENTIAL CURVE, THE SAME BEING POINT ON THE BOUNDARY OF TRACT "R", AVE MARIA PHASE ONE, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 46, PAGES 16 THROUGH 29 (INCLUSIVE); THENCE RUN THE FOLLOWING SEVEN (7) COURSES ALONG THE BOUNDARY OF SAID TRACT "R"; COURSE NO. 1: SOUTHEASTERLY, 464.33 FEET ALONG THE ARC OF A CIRCULAR CURVE, CONCAVE NORTHEASTERLY, HAVING A RADIUS OF 3,047.00 FEET, THROUGH A CENTRAL ANGLE OF 08°43'52" AND BEING SUBTENDED BY A CHORD THAT BEARS SOUTH 29°12'15" EAST, 463.88 FEET; COURSE NO. 2: SOUTH 33°34'11" EAST, 250.83 FEET TO A POINT OF CURVATURE; COURSE NO. 3: SOUTHERLY, 854.94 FEET ALONG THE ARC OF A CIRCULAR CURVE, CONCAVE WESTERLY, HAVING A RADIUS OF 1,153.00 FEET, THROUGH A CENTRAL ANGLE OF 42°29'04" AND BEING SUBTENDED BY A CHORD THAT BEARS SOUTH 12°19'39" EAST, 835.49 FEET; COURSE NO. 4: SOUTH 08°54'53" WEST, 98.56 FEET TO A POINT OF CURVATURE; COURSE NO. 5: SOUTHERLY, 358.26 FEET ALONG THE ARC OF A CIRCULAR CURVE, CONCAVE EASTERLY, HAVING A RADIUS OF 2,147.00 FEET, THROUGH A CENTRAL ANGLE OF 09°33'38" AND BEING SUBTENDED BY A CHORD THAT BEARS SOUTH 04°08'03" WEST, 357.84 FEET; COURSE NO. 6: SOUTH 00°38'46" EAST, 642.11 FEET TO A POINT OF CURVATURE; COURSE NO. 7: SOUTHERLY, 277.95 FEET ALONG THE ARC OF A CIRCULAR CURVE, CONCAVE EASTERLY, HAVING A RADIUS OF 2,147.00 FEET, THROUGH A CENTRAL ANGLE OF 07°25'03" AND BEING SUBTENDED BY A CHORD THAT BEARS SOUTH 04°21'17" EAST, 277.75 FEET; THENCE SOUTH 80°20'07" WEST, A DISTANCE OF 199.48 FEET TO A POINT OF CURVATURE; THENCE WESTERLY, 403.33 FEET ALONG THE ARC OF A CIRCULAR CURVE, CONCAVE NORTHERLY, HAVING A RADIUS OF 500.00 FEET, THROUGH A CENTRAL ANGLE OF 46°13'04" AND BEING SUBTENDED BY A CHORD THAT BEARS NORTH 76°33'21" WEST, 392.48 FEET; THENCE NORTH 53°26'49" WEST, A DISTANCE OF 401.48 FEET TO A POINT OF CURVATURE; THENCE NORTHWESTERLY, 251.56 FEET ALONG THE ARC OF A CIRCULAR CURVE, CONCAVE SOUTHWESTERLY, HAVING A RADIUS OF 1,120.00 FEET, THROUGH A CENTRAL ANGLE OF 12°52'08" AND BEING SUBTENDED BY A CHORD THAT BEARS NORTH 59°52'54" WEST, 251.03 FEET TO A POINT ON THE BOUNDARY OF TRACT "L3R", DEL WEBB NAPLES PARCEL 213, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK ___, PAGES ___ THROUGH ___ (INCLUSIVE) OF THE PUBLIC RECORDS OF SAID COLLIER COUNTY, FLORIDA; THENCE NORTH 45°05'04" EAST, ALONG THE BOUNDARY OF SAID TRACT "L3R", A DISTANCE OF 223.97 FEET TO A POINT ON A NON-TANGENTIAL CURVE; THENCE DEPARTING FROM THE BOUNDARY OF SAID TRACT "L3R", NORTHWESTERLY, 328.76 FEET ALONG THE ARC OF A CIRCULAR CURVE, CONCAVE NORTHEASTERLY, HAVING A RADIUS OF 1,194.00 FEET, THROUGH A CENTRAL ANGLE OF 15°46'33" AND BEING SUBTENDED BY A CHORD THAT BEARS NORTH 37°59'15" WEST, 327.72 FEET TO A POINT OF REVERSE CURVATURE; THENCE NORTHWESTERLY, 531.97 FEET ALONG THE ARC OF A CIRCULAR CURVE, CONCAVE SOUTHWESTERLY, HAVING A RADIUS OF 833.00 FEET, THROUGH A CENTRAL ANGLE OF 36°35'24" AND BEING SUBTENDED BY A CHORD THAT BEARS NORTH 48°23'40" WEST, 522.97 FEET; THENCE NORTH 66°41'23" WEST, A DISTANCE OF 294.99 FEET TO A POINT ON A NON-TANGENTIAL CURVE, THE SAME BEING A POINT ON THE BOUNDARY OF DEL WEBB NAPLES PARCEL 201-203, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 58, PAGES 24 THROUGH 30 (INCLUSIVE) OF THE PUBLIC RECORDS OF SAID COLLIER COUNTY, FLORIDA; THENCE RUN THE FOLLOWING THREE (3) COURSES ALONG THE BOUNDARY OF LAST SAID PLAT; COURSE NO. 1: NORTHEASTERLY, 83.47 FEET ALONG THE ARC OF A CIRCULAR CURVE, CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 1,000.00 FEET, THROUGH A CENTRAL ANGLE OF 04°46'57" AND BEING SUBTENDED BY A CHORD THAT BEARS NORTH 24°44'27" EAST, 83.44 FEET TO A POINT OF REVERSE CURVATURE; COURSE NO. 2: NORTHERLY, 565.08 FEET ALONG THE ARC OF A CIRCULAR CURVE, CONCAVE WESTERLY, HAVING A RADIUS OF 1,254.00 FEET, THROUGH A CENTRAL ANGLE OF 25°49'07" AND BEING SUBTENDED BY A CHORD THAT BEARS NORTH 14°13'22" EAST, 560.31 FEET TO A POINT OF REVERSE CURVATURE; COURSE NO. 3: NORTHERLY, 72.16 FEET ALONG THE ARC OF A CIRCULAR CURVE, CONCAVE EASTERLY, HAVING A RADIUS OF 1,500.00 FEET, THROUGH A CENTRAL ANGLE OF 02°45'23" AND BEING SUBTENDED BY A CHORD THAT BEARS NORTH 02°41'30" EAST, 72.15 FEET TO A POINT OF COMPOUND CURVATURE, THE SAME BEING A POINT ON THE BOUNDARY OF AFORESAID DEL WEBB NAPLES PARCEL 204; THENCE RUN THE FOLLOWING TWO (2) COURSES ALONG THE BOUNDARY OF LAST SAID PLAT; COURSE NO. 1: NORTHERLY, 454.73 FEET ALONG THE ARC OF A CIRCULAR CURVE, CONCAVE EASTERLY, HAVING A RADIUS OF 1,500.00 FEET, THROUGH A CENTRAL ANGLE OF 17°22'09" AND BEING SUBTENDED BY A CHORD THAT BEARS NORTH 12°45'16" EAST, 452.99 FEET; COURSE NO. 2: NORTH 21°26'20" EAST, 359.30 FEET TO THE POINT OF BEGINNING.

CONTAINING 3,526,844 SQUARE FEET OR 80.965 ACRES, MORE OR LESS.

DEVELOPED BY:

PULTE HOME COMPANY, LLC

24311 WALDEN CENTER DRIVE, SUITE 300

BONITA SPRINGS, FLORIDA 34134

PHONE: (239) 495-4810 FAX: (239) 495-4898

WALDROP ENGINEERING

CIVIL ENGINEERING & LAND DEVELOPMENT CONSULTANTS

28100 BONITA GRANDE DRIVE - SUITE 305 BONITA SPRINGS, FL 34135

P: 239-405-7777 F: 239-405-7899 EMAIL: info@waldropengineering.com

PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

COVER SHEET

PLAN REVISIONS

REV00 <<SUBMITTED / BID SET>> 01/13/17

A	03/01/17	REVISED PER COLLIER COUNTY AND AMEC COMMENTS
B	02/23/18	BID SET
C	10/18/19	REVISED PER ENGINEER AND CLIENT

NOT TO SCALE

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

VERTICAL ELEVATIONS BASED ON: NAVD-88

SET NUMBER: 133-59-01

SHEET : 1

B:\Projects\133-59 (Ave Maria) Del Webb Naples Parcels 209-212\Drawings-Exhibits\133-59-01 PPL\Current Plans\133590101.dwg
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GENERAL DRAINAGE NOTES

1. THE LENGTH OF STORM DRAIN PIPES SHOWN ON PLANS ARE APPROXIMATE AND HAVE BEEN MEASURED FROM THE INSIDE FACE OF STRUCTURE.
2. LOCATIONS OF DRAINAGE STRUCTURES MAY BE FIELD ADJUSTED TO PRESERVE EXISTING VEGETATION AS APPROVED BY THE ENGINEER.
3. THE CONTRACTOR IS REQUIRED TO ADJUST ALL EXISTING AND PROPOSED VALVE BOXES, MANHOLE RIMS, GRATES, ETC. AS REQUIRED TO MATCH PROPOSED GRADES.
4. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.
5. SWALE PROFILES SHOWN ARE TO TOP OF SOD. CONTRACTOR TO ADJUST SWALE GRADING ACCORDINGLY.
6. CONTRACTOR SHALL SOD A 12" MINIMUM STRIP BEHIND ALL CONCRETE CURB AND VALLEY GUTTER, AT EDGE OF PAVEMENT AND SHALL MAINTAIN EXISTING SOD AT LAKE BANK.
7. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL ENCOUNTERED FROM FILL AREAS PRIOR TO PLACEMENT OF FILL. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE STOCKPILED OR REMOVED AS DIRECTED BY OWNER.
8. DURING CONSTRUCTION, DRAINAGE STRUCTURE OPENINGS, WHERE APPROPRIATE, SHALL BE COVERED WITH FILTER FABRIC (MIRAFI 140N OR APPROVED EQUAL) TO PREVENT DEBRIS AND FILL FROM FALLING INTO THE INLET.
9. CASING AND/OR CONDUIT SHALL EXTEND 5' BEYOND THE EDGE OF PAVEMENT, BACK OF CURB AND/OR SIDEWALK AT EACH END.
10. OPTIONAL BRICK PAVERS MAY BE INSTALLED IN LIEU OF ASPHALT PAVEMENT AT THE DISCRETION OF THE OWNER. SEE TYPICAL SECTIONS AND DETAILS FOR PAVEMENT SECTIONS.
11. CONTRACTOR TO COORDINATE IRRIGATION CONDUIT LOCATIONS WITH IRRIGATION CONTRACTOR.
12. WATER MANAGEMENT FACILITIES SHALL BE OWNED AND MAINTAINED BY THE MASTER PROPERTY OWNER ASSOCIATION, OR SPECIAL DISTRICT.

SIGNING AND PAVEMENT MARKING NOTES

1. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE F.D.O.T. STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. PAVEMENT MARKINGS SHALL BE PERMANENT REFLECTIVE TRAFFIC PAINT WITH GLASS BEADS IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS SECTION 711-001.
3. MATCH EXISTING PAVEMENT MARKINGS AT EXISTING ROADS.
4. REMOVE ANY EXISTING SIGNS OR PAVEMENT MARKINGS IN CONFLICT WITH THOSE SHOWN ON PLANS.
5. ALL STOP SIGN LOCATIONS SHALL INCLUDE A 24" PAINTED WHITE STOP BAR UNLESS NOTED OTHERWISE.
6. THE CONTRACTOR SHALL COMPLY WITH THE STATE OF FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS AND WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
7. ALL SIGNING, PAVEMENT MARKINGS, STREET NAME SIGNS, ETC. ARE TO BE INCLUDED IN THE LUMP SUM PRICE FOR SIGNING AND MARKING.
8. THE CONTRACTOR SHALL FURNISH AND INSTALL STREET NAME SIGNS IN ACCORDANCE WITH COLLIER COUNTY DEVELOPMENT STANDARDS AND THE AVE MARIA S.R.A. IF POSSIBLE, STREET NAME SIGNAGE TO BE ATOP ALL STOP SIGNS. ONLY ONE SET OF STREET SIGNS ARE REQUIRED PER INTERSECTION.
9. THE CONTRACTOR SHALL INSTALL BLUE/BLUE RPM'S IN THE CENTER OF THE LANE ADJACENT TO ALL FIRE HYDRANTS.
10. THE LOCATION, QUANTITY AND SIZE OF PARCEL SIGNAGE AND ENTRY FEATURES MAY BE MODIFIED WITHIN THE REQUIREMENTS OF COLLIER COUNTY AND THE AVE MARIA SRA.
11. ALL HANDICAPPED RAMPS TO BE CONSTRUCTED PER FDOT INDEX 522-002

GENERAL NOTES ⚠

1. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD - 1988). NGVD = NAVD+1.29FT
2. THE LOCATIONS OF EXISTING UTILITIES/INFRASTRUCTURE HAVE BEEN PREPARED FROM RECORD DRAWING AND FIELD INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
3. COLLIER COUNTY, A.M.U.C., LEE COUNTY ELECTRIC COOPERATIVE, AND COMCAST MAY HAVE EXISTING UTILITIES ADJACENT TO THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITIES TO LOCATE THEIR FACILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND ADHERING TO A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). CONTRACTOR SHALL CREATE, IMPLEMENT, AND MAINTAIN A STORM WATER POLLUTION PREVENTION PLAN AS REQUIRED BY THE NPDES GENERAL PERMIT.
5. UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBING NATURAL VEGETATION. MATERIAL REMOVED FROM THE TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS OR AS DIRECTED BY THE OWNER.
6. ALL MATERIALS AND CONSTRUCTION METHODS USED FOR WATER, SEWER, AND DRAINAGE FACILITIES SHALL CONFORM TO THE APPROVED TECHNICAL SPECIFICATIONS.
7. THE REVIEW AND APPROVAL OF THESE IMPROVEMENT PLANS DOES NOT AUTHORIZE THE CONSTRUCTION OF REQUIRED IMPROVEMENTS, WHICH ARE INCONSISTENT WITH EXISTING EASEMENTS OF RECORD.
8. THE CONTRACTOR SHALL PREPARE AN AS-BUILT PLAN SET PER AVE MARIA UTILITY COMPANY, INDICATING ANY DIFFERENCES FROM THE ACTUAL CONSTRUCTED IMPROVEMENTS AND THE ORIGINAL CONSTRUCTION PLANS.
9. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE PROJECT'S TECHNICAL SPECIFICATIONS, FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AND THE AVE MARIA UTILITY COMPANY. CONTRACTOR IS REQUIRED TO OBTAIN FROM THE ENGINEER WRITTEN APPROVAL FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.
10. THE PROPERTY OWNER IS RESPONSIBLE FOR REPLACEMENT OF ALL DEAD LANDSCAPE MATERIAL AND FOR THE MAINTENANCE OF THE REQUIRED IRRIGATION SYSTEM.
11. ALL UNDER GROUND UTILITIES LOCATED BENEATH THE STABILIZED PORTION OF THE ROAD BED SHALL BE INSTALLED PRIOR TO COMPACTION OF THE SUBGRADE.
12. THE CONTRACTOR SHALL RETAIN ON THE WORK SITE AT ALL TIMES COPIES OF ALL PERMITS NECESSARY FOR CONSTRUCTION.
13. THE CONTRACTOR IS RESPONSIBLE TO DEWATER IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL PERMITS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT, ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS.
15. WIDTH OF SIDEWALK (5' MIN. / 10' MAX.) AND MULTI-USE PATH (8' MIN. / 16' MAX.), AS WELL AS LOCATION, MAY VARY SLIGHTLY. SIDEWALK AND MULTI-USE PATH TYPE MAY BE CONCRETE, ASPHALT OR PAVER BRICKS. WIDTH, LOCATION AND TYPE TO BE DETERMINED AT DEVELOPER'S DISCRETION.
16. THE CONTRACTOR SHALL COMPLY WITH THE STATE OF FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS AND WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
17. THE CONTRACTOR SHALL INSTALL BLUE/BLUE RPM'S IN THE CENTER OF THE LANE ADJACENT TO ALL FIRE HYDRANTS.
18. THE CONTRACTOR SHALL VERIFY ALL DIMENSION AND ELEVATION PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DEVIATION IN PLAN INFORMATION SHALL BE REPORTED TO ENGINEER IMMEDIATELY
19. SOLID WASTE DISPOSAL AND RECYCLING TO BE PROVIDED VIA CURB SIDE PICK-UP.
20. EXCAVATED AREAS SHALL BE FILLED WITH SUITABLE MATERIAL. SANDY BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM 12 INCH THICK LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 98 PERCENT DENSITY AS DETERMINED FROM ASTM D1557.

WATER, IRRIGATION AND SEWER NOTES

1. CONTRACTOR TO VERIFY SIZE AND LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
2. WATER AND SEWER UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AVE MARIA UTILITY COMPANY, LLLP TECHNICAL STANDARDS, SPECIFICATIONS & DETAILS AS REQUIRED BY RESOLUTION NO. 2004-357.
3. FITTINGS SHALL BE USED TO MAINTAIN PLAN ALIGNMENT OF ALL MAINS. DEVIATION FROM PLAN ALIGNMENT SHALL NOT BE MORE THAN 12" FROM PLAN CENTERLINE OF MAIN.
4. MINIMUM COVER FOR ALL UTILITIES SHALL BE MEASURED FROM FINISHED GRADES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE MINIMUM COVER, REGARDLESS OF GRADE.
5. ALL POTABLE WATER MAINS SHALL BE SEPARATED FROM SANITARY SEWER AND STORM SEWER BY A MINIMUM HORIZONTAL DISTANCE OF SIX FEET (6') MEASURED EDGE TO EDGE AND A VERTICAL DISTANCE OF TWELVE INCHES (12") MEASURED BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE MINIMUM SEPARATION CANNOT BE MAINTAINED, SEE CROSSOVER DETAIL REQUIREMENTS IN THE STANDARD DETAIL SHEETS.
6. ALL POTABLE WATER MAINS SHALL BE OWNED AND MAINTAINED BY A.M.U.C.
7. ALL SANITARY SEWER LINES, LATERALS TO THE PROPERTY LINE CLEAN-OUT, FORCE MAINS, AND MANHOLES, SHALL BE OWNED AND MAINTAINED BY A.M.U.C.
8. CONTRACTOR SHALL CONSTRUCT ALL WATER AND SEWER APPURTENANCES INCLUDING METER BOXES, BLOW-OFFS, VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, ETC. TO FINISHED GRADE. CONTRACTOR SHALL COORDINATE DURING THE CONSTRUCTION STAKEOUT AND PRIOR TO CONSTRUCTION OF SAID APPURTENANCES WITH OWNER AND ENGINEER REGARDING FINISHED GRADE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE CONSTRUCTION OF SAID APPURTENANCES TO FINISHED GRADE.
9. ALL WATER & IRRIGATION SERVICES SHALL BE CONSTRUCTED WITH A CASING THAT EXTENDS 5 FEET BEYOND THE BACK OF CURB. MAGNETIC MARKERS ARE REQUIRED AT EACH END OF THE CASING. CASING SHALL BE 4" MINIMUM.
10. WATER & IRRIGATION UTILITY MAINS SHALL BE AWWA C900, DR-18 PVC, UNLESS NOTED OTHERWISE. ALL WATER AND IRRIGATION MAINS UNDER PAVEMENT AND AT CONFLICT CROSSINGS SHALL BE AWWA C900, DR-14 PVC PIPE.
11. IRRIGATION DISTRIBUTION SYSTEM SHALL BE OWNED & MAINTAINED BY THE MASTER PROPERTY OWNERS ASSOCIATION. CONTRACTOR TO COORDINATE IRRIGATION CONDUIT LOCATIONS WITH IRRIGATION CONTRACTOR.
12. THE WATER METER SHALL BE SIZED BY A.M.U.C. THE WATER METER SHALL BE INSTALLED BY A.M.U.C. THE WATER SERVICE SHALL BE INSTALLED BY CONTRACTOR. (WATER METER SHALL BE AMCO MODEL #C700 NSF 61)
13. SANITARY SEWER MAINS AND LATERALS SHALL BE ASTM D-3034 SDR 26. FORCE MAINS SHALL BE AWWA C900, DR-18 PVC PIPE, UNLESS NOTED OTHERWISE. ALL FORCE MAINS UNDER PAVEMENT AND AT CONFLICT CROSSINGS SHALL BE AWWA C900, DR-14 PVC PIPE.
14. WATER PIPING THREE INCHES OR SMALLER SHALL MEET THE REQUIREMENTS OF ASTM D-1785.
15. ALL COLD-WATER METERS-DISPLACEMENT TYPE, BRONZE MAINCASE, SIZE 1/2 INCH THROUGHOUT 2 INCH SHALL MEET THE REQUIREMENTS OF AWWA C700.
16. ALL WATER METER COMPONENTS THAT COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM WITH NSF STANDARD 61.
17. AT WATER MAIN TERMINATION POINTS, A TEMPORARY BLOW-OFF SHALL BE INSTALLED TO PROVIDE FOR FULL BORE FLUSHING.
18. ALL IRRIGATION WATER MAINS SHALL BE SEPARATED FROM WATER MAINS BY A MINIMUM HORIZONTAL DISTANCE OF SIX (6') FEET MEASURED EDGE TO EDGE AND A VERTICAL DISTANCE OF TWELVE INCHES (12") BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE MINIMUM SEPARATION CANNOT BE MAINTAINED, SEE CROSSOVER DETAIL REQUIREMENTS IN THE STANDARD DETAIL SHEETS. PROPOSED IRRIGATION FOR THIS PROJECT CONVEY RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610 F.A.C.
19. ALL OTHER UTILITY CONDUITS MUST BE SEPARATED FROM WATER AND SEWER IMPROVEMENTS BY A MINIMUM OF 12".
20. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND A.M.U.C. 72 HOURS PRIOR TO ANY TESTING OR INSPECTIONS REQUIRED BY THE PERMITS OR REGULATIONS.
21. WATER, IRRIGATION AND FORCE MAINS TO BE FIELD ADJUSTED TO MAINTAIN 6" VERTICAL CLEARANCE FROM SANITARY SERVICE LATERALS. MAINTAIN 30" MINIMUM / 72" MAXIMUM COVER ON PRESSURE MAINS.
22. ALL GOLF COURSE IRRIGATION WATER MAINS SHALL BE SEPARATED FROM WATER MAINS BY A MINIMUM HORIZONTAL DISTANCE OF SIX (6') FEET MEASURED EDGE TO EDGE AND A VERTICAL DISTANCE OF TWELVE INCHES (12") BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE MINIMUM SEPARATION CANNOT BE MAINTAINED, SEE CROSSOVER DETAIL REQUIREMENTS IN THE STANDARD DETAIL SHEETS.
23. PARCEL 209 (GALA DRIVE) TOTAL 8" PVC SANITARY SEWER IS 1,126 LF AT 0.40% (MIN.) SLOPE WITH 5 MANHOLES.
24. PARCEL 209 GALA DRIVE) TOTAL 8" PVC WATER MAIN IS 1,220 LF.
25. PARCEL 209 (GALA DRIVE) TOTAL 4" PVC IRRIGATION MAIN IS 1,265 LF.
26. PARCEL 210 (NOBILITY WAY) TOTAL 8" PVC SANITARY SEWER IS 1,310 LF AT 0.40% (MIN.) SLOPE WITH 6 MANHOLES.
27. PARCEL 210 (NOBILITY WAY) TOTAL 8" PVC WATER MAIN IS 1,406 LF.
28. PARCEL 210 (NOBILITY WAY) TOTAL 4" PVC IRRIGATION MAIN IS 1,347 LF.
29. PARCEL 211 (REVERLY COURT) TOTAL 8" PVC SANITARY SEWER IS 848 LF AT 0.40% (MIN.) SLOPE WITH 4 MANHOLES.
30. PARCEL 211 (REVERLY COURT) TOTAL 8" PVC WATER MAIN IS 951 LF.
31. PARCEL 211 (REVERLY COURT) TOTAL 4" PVC IRRIGATION MAIN IS 903 LF.
32. PARCEL 212 (HARMONY DRIVE) TOTAL 8" PVC SANITARY SEWER IS 1,949 LF AT 0.40% (MIN.) SLOPE WITH 9 MANHOLES.
33. PARCEL 212 (HARMONY DRIVE) TOTAL 8" PVC WATER MAIN IS 1,997 LF.
34. PARCEL 212 (HARMONY DRIVE) TOTAL 6" PVC IRRIGATION MAIN IS 2,164 LF.

AMUC GENERAL NOTES

1. THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED PERMITS ARE IN HAND BEFORE COMMENCEMENT OF CONSTRUCTION. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH AVE MARIA UTILITY COMPANY LLLP (AMUC) STANDARDS AND LOCAL, STATE AND FEDERAL PERMITS. THE CONTRACTOR SHALL COORDINATE ALL INSPECTIONS REQUIRED BY AMUC STANDARDS AND PERMITS.
2. CONTRACTOR MUST NOTIFY AVE MARIA UTILITY COMPANY LLLP (AMUC) AT (239) 348-0248 WITHIN SEVENTY-TWO (72) HOURS PRIOR TO STARTING CONSTRUCTION.
3. ALL ELEVATIONS ARE BASED ON NAVD; NORTH AMERICAN VERTICAL DATUM (NAVD - 1988)
4. THE CONTRACTOR SHALL NOTIFY FIBEROPTICS COMPANIES SEVEN (7) WORKING DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY IN THEIR AREA. EXTREME CAUTION SHALL BE USED IN AREAS WHERE FIBEROPTIC CABLE IS LOCATED ADJACENT TO CONSTRUCTION ACTIVITY.
5. ALL WORK SHALL BE PERFORMED INSIDE THE RIGHT OF WAY (R.O.W.) OR DESIGNATED EASEMENT.
6. ALL MAINS SHALL BE INSTALLED WITH A MINIMUM OF 30-INCHES (2.5 FT) OF COVER, EXCEPT UNDER PAVEMENT. ALL MAINS UNDER PAVEMENT SHALL BE INSTALLED WITH A MINIMUM OF 36-INCHES (3.0 FT) OF COVER. MAXIMUM ALLOWABLE COVER SHALL BE 72-INCHES (6 FT).
7. ALL BURIED PIPING SPECIFIED FOR PRESSURE SERVICES SHALL BE PROVIDED WITH RESTRAINING DEVICES AT ALL DIRECTIONAL CHANGES, UNLESS NOTED OTHERWISE.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, DEPTH AND CHARACTER OF ALL UTILITIES PRIOR TO EXCAVATION IN ORDER TO PROTECT THESE UTILITIES DURING CONSTRUCTION. IN THE EVENT OF ANY DISCREPANCY CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER AND AMUC.
9. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AT ALL INTERSECTIONS OF PROPOSED WORK AND EXISTING UTILITIES. THE EXPLORATORY EXCAVATIONS SHALL BE MADE FORTY-EIGHT (48) HOURS IN ADVANCE OF THE PROPOSED WORK, IF THERE IS A CONFLICT, THE CONTRACTOR SHALL NOTIFY AMUC (239) 348-0248 IMMEDIATELY. INFORMATION OF THE OBSTRUCTION SHALL BE FURNISHED BY THE CONTRACTOR AND SHALL INCLUDE: LOCATION, ELEVATION, UTILITY TYPE, MATERIAL AND SIZE.
10. LOCATIONS AND DIMENSIONS OF EXISTING R.O.W. AND EASEMENTS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY ALL THE LIMITS OF R.O.W. AND EASEMENTS IN ORDER TO AVOID ENCROACHMENTS.
11. THE CONTRACTOR SHALL REPLACE BUT NOT BE LIMITED TO PAVING, STABILIZED EARTH, DRIVEWAYS OR ANY ITEMS DISTURBED OR DAMAGED BY THE CONSTRUCTION OR ITS RELATED ACTIVITIES. THE CONTRACTOR SHALL REPLACE WITH EQUAL MATERIAL OR AS DIRECTED BY AMUC.
12. THE DISPOSAL OF ANY EXCESS EARTHWORK MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK WITH THE WORK SCHEDULE OF ADJACENT CONTRACTORS AS WELL AS AMUC OPERATION STAFF.
14. ALL PIPELINE MATERIAL AND INSTALLATION SHALL CONFORM TO AMUC STANDARDS (LATEST EDITION), CONTRACT DOCUMENTS AND ALL APPLICABLE LOCAL AND STATE REQUIREMENTS.
15. WHERE MINIMUM SEPARATION BETWEEN UTILITIES IS REQUIRED, THE DISTANCE SHALL BE MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE. REFER TO AMUC (LATEST EDITION) CROSSOVER DETAIL (AMUC-G-1) FOR MINIMUM SEPARATION.
16. 4" - 12" PVC PRESSURE MAINS SHALL CONFORM TO AWWA STANDARD C900 (DR18) PRESSURE CLASS 150; 14" - 24" PVC PRESSURE MAINS SHALL CONFORM TO AWWA C905 (DR25) PRESSURE CLASS 165. EXCEPT FOR PVC INSTALLED UNDER PAVEMENT.
17. PVC PIPE UNDER PAVEMENT SHALL MEET THE FOLLOWING REQUIREMENT: 4" - 12" PVC PRESSURE MAINS SHALL CONFORM TO AWWA STANDARD C900 (DR14) PRESSURE CLASS 200; 14" - 24" PVC PRESSURE MAINS SHALL CONFORM TO AWWA C905 (DR18) PRESSURE CLASS 235.
18. ALL PRESSURE MAINS LARGER THAN 24-INCH SHALL BE DUCTILE IRON PIPE (D.I.P). ALL D.I.P. SHALL HAVE A MINIMUM THICKNESS CONFORMING TO PRESSURE CLASS 250 IN ACCORDANCE WITH THE LATEST REVISION OF ANSI/AWWA C150/A21.50. SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C151/A21.51. PIPE SHALL HAVE STANDARD ASPHALTIC COATING ON THE EXTERIOR. PIPE SHALL ALSO BE DOUBLE THICK CEMENT-MORTAR LINING ON THE INTERIOR IN ACCORDANCE WITH ANSI/AWWA C104/A21.4 (LATEST REVISION). ALL FITTINGS SHALL BE MECHANICAL JOINT TYPE IN ACCORDANCE WITH AWWA C111 (LATEST REVISION).
19. DUCTILE IRON WATER MAIN SHALL BE DISINFECTED IN ACCORDANCE WITH LATEST REVISION OF ANSI/AWWA C651 PRIOR TO PLACING IN SERVICE.
20. PIPE COLORS: POTABLE WATER MAINS SHALL BE COLORED BLUE; RAW WATER MAINS SHALL BE COLORED WHITE; NON-POTABLE IRRIGATION, RECLAIMED AND RE-USE WATER MAINS SHALL BE COLORED PURPLE; FORCE MAIN SHALL BE COLORED GREEN.
21. ALL AERIAL CROSSINGS SHALL BE MADE USING PRESSURE CLASS 250, FLANGED DUCTILE IRON PIPE, AND SHALL BE COATED ON THE EXTERIOR USING APPROPRIATELY COLORED, FIELD APPLIED, EPOXY COATING. ALL NUTS AND BOLTS SHALL BE STAINLESS STEEL.
22. PVC FIRE MAINS SHALL BE DR14 PIPE, AND HDPE FIRE MAINS SHALL BE DR11 PIPE.
23. USE OF HDPE PIPE SHALL BE APPROVED BY AMUC PRIOR TO CONSTRUCTION. REFER TO AMUC STANDARDS SECTION 10.3.8 FOR EQUIVALENT PVC AND HDPE CHART.
24. ALL WATER MAINS SHALL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA C600 FOR DUCTILE IRON PIPE; AWWA C605 FOR PVC PIPE; ASTM F 2164 FOR HDPE PIPE. THE AMOUNT OF LEAKAGE, WHICH WILL BE PERMITTED, SHALL BE IN ACCORDANCE WITH AWWA C600 STANDARDS.
25. ALL FORCE MAINS SHALL BE PRESSURE TESTED AT 100 PSI FOR NOT LESS THAT ONE HOUR IN ACCORDANCE WITH AMUC STANDARDS (SECTION 17.28)
26. PVC FITTINGS SHALL BE PRESSURE RATED 150 PSI AND HAVE HYDROSTATIC DESIGN BASIS OF 4000 PSI PER AWWA C907.
27. ALL DUCTILE IRON FITTINGS SHALL BE MECHANICAL JOINT TYPE WITH THE MINIMUM PRESSURE RATING OF 250 PSI AND SHALL CONFORM TO THE REQUIREMENTS OF ANSI STANDARD A21.10. DUCTILE IRON FITTINGS SHALL BE FUSION BONDED EPOXY COATED ON THE INTERIOR IN ACCORDANCE WITH AWWA STANDARDS C116.
28. HDPE FITTINGS SHALL HAVE ELECTROFUSION JOINTS OR BUTT HEAT FUSION JOINTS. ALL ELECTROFUSION JOINT FITTINGS SHALL HAVE ISO 9001 CERTIFICATION, AND SHALL BE CENTRAL PLASTIC FITTINGS. ALL BUTT HEAT FUSION JOINT FITTINGS SHALL CONFORM TO AWWA C906 AND ASTM D3261.
29. IN AREAS WHERE CONSTRUCTION ACTIVITIES RESTRICT NORMAL ACCESS TO PROPERTIES, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALTERNATE ACCESS ROUTES, WHICH ARE SUBJECT TO APPROVAL BY AMUC.
30. ALL PRACTICAL AND NECESSARY EFFORT SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT UNNECESSARY TREE REMOVAL. ALL EXISTING LANDSCAPING TO BE REMOVED FOR CONSTRUCTION PURPOSES SHALL BE REPLACED WITH NEW AND DIRECTED BY A SPECIALTY CONTRACTOR WHO WILL WARRANTY/GUARANTEE THE WORK.
31. ALL FILL AND ROAD MATERIALS EXCAVATED SHALL BE LEGALLY DISPOSED OF IN ACCORDANCE WITH THE STANDARDS AND APPLICABLE LOCAL AND FEDERAL CODES AND REGULATIONS.
32. ALL EXCAVATION SHALL BE BACKFILLED AT THE END OF EACH WORK DAY.
33. FOR ALL SCHEDULED INTERRUPTION OF ANY MAIN FLOW, THE CONTRACTOR SHALL NOTIFY AMUC 72 HOURS IN ADVANCE.
34. DURING NORMAL MAIN FLOW INTERRUPTION, THE CONTRACTOR SHALL PROVIDE UNINTERRUPTED BY-PASS FLOW AND SHALL PROVIDE ALL EQUIPMENT NECESSARY TO ACCOMPLISH THE SAME IN THE FORM OF, BUT NOT LIMITED TO THE FOLLOWING: POWER, PUMPS, PIPING, APPURTENANT VALVES AND FITTINGS AND/OR SEPTIC TANKER TRUCK PUMPING, HAULING AND DISPOSAL SERVICES.
35. CONSTRUCTION SHALL NOT COMMENCE UNTIL AMUC HAS ISSUED A WRITTEN AUTHORIZATION TO CONSTRUCT, AND ALL APPLICABLE FEES HAVE BEEN PAID. CONVEYANCE OF THE UTILITIES SHALL BE IN COMPLIANCE WITH AMUC STANDARDS, SECTION 8.
36. ALL CONNECTIONS TO EXISTING MAINS SHALL BE MADE BY THE CONTRACTOR ONLY ON THE AGREED UPON TIME AND DATE ESTABLISHED WITH AMUC STAFF AND AFTER THE CONNECTION PROCEDURE AND WORK SCHEDULE ARE REVIEWED AND APPROVED BY AMUC.
37. ALL MAINS SHALL HAVE LOCATOR TAPE INSTALLED CONTINUOUSLY ALONG THE ENTIRE LENGTH. THE LOCATOR TAPE SHALL BE INSTALLED DURING BACKFILL AT A MINIMUM OF 12 INCHES BELOW FINISH GRADE DIRECTLY OVER THE PIPE AND BE CONTINUOUSLY LABELED "WATER MAIN" OR "SEWER MAIN" AS APPROPRIATE. THE TAPE SHALL HAVE AN EMBEDDED METALLIC DETECTABLE STRIP.
38. MARKERS SHALL BE PLACED: AT A MINIMUM OF EVERY 100-FEET; AT ALL FITTINGS; AT ANY CHANGE OF DIRECTION AND AT ALL SEWER SERVICES (CLEAN OUTS). MARKERS SHALL BE 3M BRAND, MN1257 FULL RANGE MARKERS FOR THE APPROPRIATE UTILITY OR APPROVED EQUAL.
39. ALL BURIED UTILITY PIPES TO BE ABANDONED IN PLACE SHALL BE CUT, PLUGGED AND FILLED WITH GROUT.
40. WATER MAIN VALVES SHALL BE LOCATED AT ALL INTERSECTING MAINS (THREE PER TEE AND FOUR PER CROSS), AT THE END OF ALL LINES TO BE EXTENDED, AT ALL FIRE HYDRANTS, ON BOTH SIDES OF ALL WATER AND WETLAND CROSSING, AT BOTH ENDS OF ALL JACK AND BORE AND DIRECTIONAL DRILL, AT A MINIMUM OF 500 FEET FOR COMMERCIAL AND INDUSTRIAL DEVELOPMENTS, AND 800 FEET ALONG WATER MAIN FOR ALL OTHER DEVELOPMENT.
41. FORCE MAIN VALVES SHALL BE INSTALLED ON ALL SUBSIDIARY FORCE MAINS AT THE POINT OF CONNECTION TO THE MAJOR MAIN, AT THE END OF ALL LINES TO BE EXTENDED, AT FUTURE CONNECTION BRANCHES AND AT A MINIMUM OF 1,000 FEET ALONG FORCE MAIN "INLINE".
42. AIR RELEASE VALVES (ARV) SHALL BE PLACED EVERY 1,500 FEET ON ALL PRESSURE MAINS AND ON BOTH SIDES OF A DIP WHERE DEFLECTION IS 4 TIMES THE DIAMETER OF PIPE OR GREATER.
43. FOR WATER MAINS A TEMPORARY BLOW-OFF SHALL BE PROVIDED AT DEAD END LINES THAT WILL BE EXTENDED WITHIN TWO YEARS OTHERWISE A FIRE HYDRANT SHALL BE REQUIRED.
44. HYDRANT SERVICES WILL BE SUBJECT TO BACTERIOLOGICAL TESTING. NO HYDRANT WILL BE TURNED ON UNTIL BACTERIOLOGICAL TESTS ARE SATISFIED IN ACCORDANCE WITH AMUC STANDARDS (SECTION 11.9).
45. CONTRACTOR SHALL PROVIDE HORIZONTAL AND VERTICAL RECORD LOCATIONS OF IMPROVEMENTS. A REGISTERED LAND SURVEYOR SHALL BE USED TO PROVIDE AS-BUILT INFORMATION WHICH SHALL INCLUDE THE FOLLOWING, BUT NOT LIMITED TO:
    a. TOP ELEVATIONS OF MANHOLES.
    b. PIPE CHANGES IN DIRECTION.
    c. MANHOLE CENTER COORDINATES FOR SANITARY SEWERS.
    d. ALL UNDERGROUND PIPING (INVERT OR CENTERLINE ELEVATIONS) INCLUDING VALVES, A.R.V., TEES AND FITTINGS.
    e. PIPE INVERT OR CENTERLINE AT CROSSING WITH OTHER PIPES AND EXISTING PIPE.
    f. OTHER HORIZONTAL AND VERTICAL RECORD DATA PERTINENT TO COMPLETED WORK.

VERTICAL ELEVATIONS BASED ON: NAVD-88

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

GENERAL NOTES

PLAN REVISIONS

⚠	03/01/17	REVISED PER COLLIER COUNTY AND AMUC COMMENTS
⚠	10/18/19	REVISED PER ENGINEER AND CLIENT

REV00 <<SUBMITTED / BID SET>> 01/13/17

NOT TO SCALE

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 2

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LEGEND

- AREA OF EXISTING LAKE TO BE FILLED = 4.95 ACRES±
- AREA TO BE CLEARED / DISKED AREA = 76.02 ACRES±

CLEARING NOTES

1. EXOTIC VEGETATION AS DEFINED BY COLLIER COUNTY LAND DEVELOPMENT CODE SHALL BE ERADICATED FROM THE SITE AND SUBSEQUENT ANNUAL EXOTIC ERADICATION (IN PERPETUITY) SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.
2. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ALL EXISTING NATIVE VEGETATION TO BE RETAINED SHALL BE IDENTIFIED. THE CONTRACTOR SHALL INSTALL ENVIROFENCE (OR EQUAL) BEYOND THE DRIP LINES OF THE PRESERVED VEGETATION AND ALONG THE LIMITS OF CLEARING. THIS FENCE SHALL REMAIN ERECTED AND MAINTAINED THROUGH THE DURATION OF THE CONSTRUCTION ACTIVITIES.
3. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, CONDITIONS OF FWC PERMIT WX0544(CARACARA) & FWC PERMIT WN05473 (BURROWING OWL) SHALL BE SATISFIED.
4. ALL PROHIBITED EXOTIC VEGETATION SHALL BE REMOVED FROM THE SITE AND IT SHALL BE MAINTAINED FREE OF EXOTICS IN PERPETUITY.
5. AERIAL PROVIDED BY COLLIER COUNTY DATED JAN 24, 2016

VERTICAL ELEVATIONS BASED ON: NAVD-88

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

AERIAL MAP AND CLEARING PLAN

PLAN REVISIONS

A	03/01/17	REVISED PER COLLIER COUNTY AND AMAC COMMENTS
B	10/23/18	BID SET

REV00 <<SUBMITTED / BID SET>> 01/13/17

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FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 3

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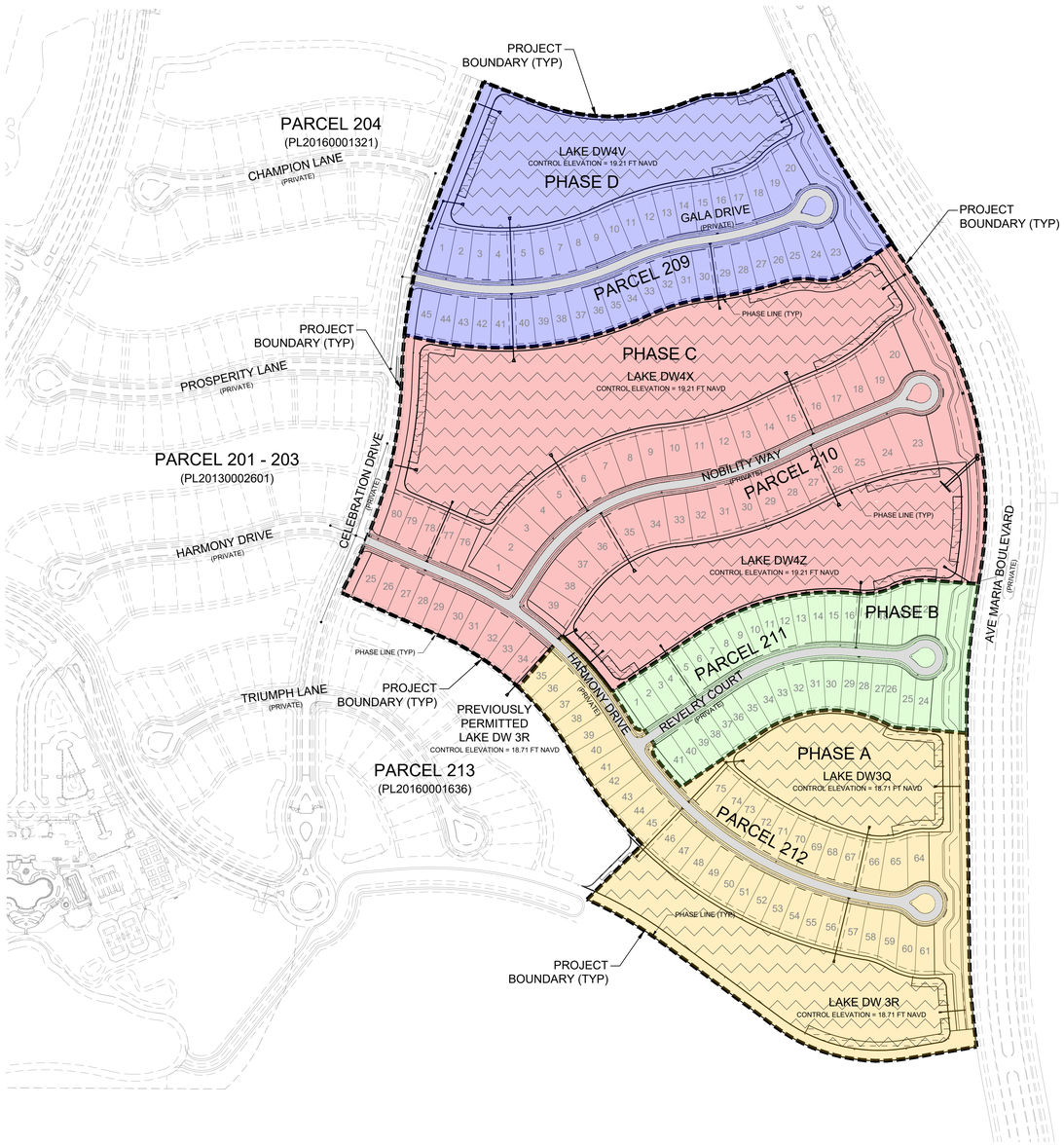

LAND USE SUMMARY PHASE A

CATEGORY	SQUARE FOOTAGE	ACREAGE	PERCENTAGE OF TOTAL ACREAGE
R.O.W.			
IMPERVIOUS	59,086	1.36	6.7%
PERVIOUS	25,910	0.59	2.9%
R.O.W. TOTAL	84,996	1.95	9.6%
S.F. RESIDENTIAL TRACT			
IMPERVIOUS	181,582	4.17	20.5%
PERVIOUS	121,055	2.78	13.7%
S.F. RESIDENTIAL TRACT TOTAL	302,637	6.95	34.2%
LAKE	360,351	8.27	40.8%
LANDSCAPE / OPEN SPACE	135,732	3.12	15.4%
TOTAL AREA	883,716	20.29	100.0%

LAND USE SUMMARY PHASE B

CATEGORY	SQUARE FOOTAGE	ACREAGE	PERCENTAGE OF TOTAL ACREAGE
R.O.W.			
IMPERVIOUS	35,173	0.81	4.7%
PERVIOUS	21,390	0.49	2.8%
R.O.W. TOTAL	56,563	1.30	15.7%
S.F. RESIDENTIAL TRACT			
IMPERVIOUS	154,687	3.55	42.9%
PERVIOUS	103,124	2.37	28.7%
S.F. RESIDENTIAL TRACT TOTAL	257,811	5.92	71.6%
LAKE	0	0.00	0.0%
LANDSCAPE / OPEN SPACE	45,667	1.05	12.7%
TOTAL AREA	360,041	8.27	100.0%

LAND USE SUMMARY PHASE C

CATEGORY	SQUARE FOOTAGE	ACREAGE	PERCENTAGE OF TOTAL ACREAGE
R.O.W.			
IMPERVIOUS	72,384	1.66	4.7%
PERVIOUS	42,804	0.98	2.8%
R.O.W. TOTAL	115,188	2.64	7.5%
S.F. RESIDENTIAL TRACT			
IMPERVIOUS	295,687	6.79	19.2%
PERVIOUS	197,124	4.52	12.8%
S.F. RESIDENTIAL TRACT TOTAL	492,811	11.31	32.0%
LAKE	737,882	16.94	47.9%
LANDSCAPE / OPEN SPACE	193,930	4.45	12.6%
TOTAL AREA	1,539,811	35.35	100.0%

LAND USE SUMMARY PHASE D

CATEGORY	SQUARE FOOTAGE	ACREAGE	PERCENTAGE OF TOTAL ACREAGE
R.O.W.			
IMPERVIOUS	45,546	1.05	6.1%
PERVIOUS	27,491	0.63	3.7%
R.O.W. TOTAL	73,037	1.68	9.8%
S.F. RESIDENTIAL TRACT			
IMPERVIOUS	200,301	4.60	27.0%
PERVIOUS	133,534	3.06	17.9%
S.F. RESIDENTIAL TRACT TOTAL	333,835	7.66	44.9%
LAKE	232,657	5.34	31.3%
LANDSCAPE / OPEN SPACE	103,725	2.38	14.0%
TOTAL AREA	743,264	17.06	100.0%

LAND USE SUMMARY ALL PHASES

CATEGORY	SQUARE FOOTAGE	ACREAGE	PERCENTAGE OF TOTAL ACREAGE
R.O.W.			
IMPERVIOUS	212,189	4.87	6.0%
PERVIOUS	117,595	2.70	3.3%
R.O.W. TOTAL	329,784	7.57	9.3%
S.F. RESIDENTIAL TRACT			
IMPERVIOUS	832,257	19.10	23.6%
PERVIOUS	554,837	12.74	15.7%
S.F. RESIDENTIAL TRACT TOTAL	1,387,094	31.84	39.3%
LAKE	1,330,890	30.55	37.7%
LANDSCAPE / OPEN SPACE	479,054	11.00	13.6%
TOTAL AREA	3,526,832	80.96	100.0%

PHASING NOTES

1. INSTALL TEMPORARY BLOW-OFFS FOR IRRIGATION MAINS WITH ADDITIONAL VALVE IF NECESSARY, AT PHASE BOUNDARY FOR TESTING AND UTILITY TURNOVER.
2. INSTALL TEMPORARY BLOW-OFF ASSEMBLY WITH BACTERIAL SAMPLE POINT AT PHASE BOUNDARY AND REPLACE IT WITH AUTOMATIC FLUSHING DEVICE UPON BACTERIOLOGICAL CLEARANCE OF WATER MAIN.
3. SANITARY SEWER TO BE EXTENDED TO THE PHASE LINE AND ENDED WITH A BELL.
4. PHASE BOUNDARY IS APPROXIMATE AND REPRESENTS LIMITS OF UTILITY TURNOVER AND PRELIMINARY ACCEPTANCE PER PHASE.

VERTICAL ELEVATIONS BASED ON: NAVD-88

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

MASTER PHASING PLAN

PLAN REVISIONS

A	03/01/17	REVISED PER COLLIER COUNTY AND AMUC COMMENTS
B	10/18/19	REVISED PER ENGINEER AND CLIENT

REV.00 <<SUBMITTED / BID SET>> 01/13/17

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SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 68421

SET NUMBER: 133-59-01

SHEET : 4

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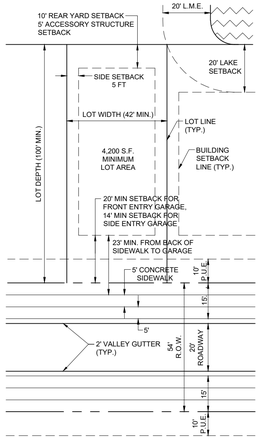
SITE DEVELOPMENT CRITERIA PARAMETERS PER AVE MARIA TOWN PLAN SRA DEVELOPMENT DOCUMENT

	SMALL SINGLE FAMILY DETACHED FRONT OR SIDE LOADED LOTS (PARCEL 209: LOTS 1-20, 23-45)	
CATEGORY	REQUIRED	PROVIDED
MINIMUM LOT AREA	4,200 SF	7,052 SF
MIN. LOT WIDTH (@ FRONT SETBACK)	42 FT	50.2 FT
MIN. LOT DEPTH	100 FT	140 FT
FRONT YARD (R.O.W. / BACK OF SIDEWALK)	20 FT / 23 FT	20 FT / 23 FT
FRONT YARD (SIDE ENTRY)	14 FT	14 FT
SIDE YARD	3 FT-1 IN MIN. / MIN. 10 FT TOTAL BOTH SIDES / 10 FT CORNER	5 FT
REAR YARD	10 FT	10 FT
REAR YARD (ACCESSORY)	5 FT	5 FT
REAR YARD - LAKE (PRINCIPAL & ACCESSORY)	20 FT	20 FT
MIN. DISTANCE BETWEEN STRUCTURES	10 FT	10 FT
MAXIMUM BUILDING HEIGHT	2½ STORIES	2½ STORIES
MIN. LANDSCAPE	100 SF	100 SF

ADDITIONAL REQUIREMENTS:

- MINIMUM DRIVEWAY SHALL BE 9'
- MAXIMUM 900 SF GARAGE
- FENCING / WALLS MAY NOT EXCEED 7' IN HEIGHT AND MAY CONSIST OF WOOD, IRON, VINYL OR MASONRY.
- OVERHANGS MAY ENCROACH 2' INTO ANY YARD.



SMALL SINGLE FAMILY DETACHED LOT LAYOUT

SCALE: 1" = 30'

(FRONT/SIDE LOADED GARAGE)

(PARCEL 209 LOTS 1 - 45)

SURFACE WATER MANAGEMENT* PARAMETERS

DRAINAGE BASIN	DW3	DW4B
CONTROL ELEVATION (FT-NAVD)	18.71	19.21
PEAK 25-YEAR - 3 DAY STORM STAGE (FT-NAVD)	21.51	21.81
PEAK 100-YEAR - 3 DAY STORM STAGE (FT-NAVD)	22.21	22.31
FEMA ELEVATION (FT-NAVD)	21.01	21.01
MIN. ROAD CENTER LINE ELEVATION (FT-NAVD)	21.51	22.21
MIN. FINISHED FLOOR ELEVATION (FT-NAVD)	22.21	22.31
MIN. PERIMETER BERM ELEVATION (FT-NAVD)	21.51	21.81

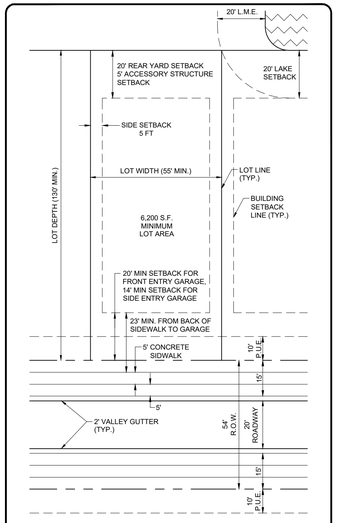
* SURFACE WATER MANAGEMENT PARAMETERS APPROVED BY THE SFWMD UNDER ERP #11-02336-P (APPLICATION #190830-7) ISSUED ON SEPTEMBER 26, 2019.

SITE DEVELOPMENT CRITERIA PARAMETERS PER AVE MARIA TOWN PLAN SRA DEVELOPMENT DOCUMENT

	MEDIUM SINGLE FAMILY DETACHED FRONT OR SIDE LOADED LOTS (PARCEL 210: LOTS 1-20, 23-39)	
CATEGORY	REQUIRED	PROVIDED
MINIMUM LOT AREA	6,200 SF	9,017 SF
MIN. LOT WIDTH (@ FRONT SETBACK)	55 FT	64.2 FT
MIN. LOT DEPTH	130 FT	140 FT
FRONT YARD (R.O.W. / BACK OF SIDEWALK)	20 FT / 23 FT	20 FT / 23 FT
FRONT YARD (SIDE ENTRY)	14 FT	14 FT
SIDE YARD	3 FT-1 IN MIN. / MIN. 10 FT TOTAL BOTH SIDES / 10 FT CORNER	5 FT
REAR YARD	20 FT	20 FT
REAR YARD (ACCESSORY)	5 FT	5 FT
REAR YARD - LAKE (PRINCIPAL & ACCESSORY)	20 FT	20 FT
MIN. DISTANCE BETWEEN STRUCTURES	10 FT	10 FT
MAXIMUM BUILDING HEIGHT	2½ STORIES	2½ STORIES
MIN. LANDSCAPE	100 SF	100 SF

ADDITIONAL REQUIREMENTS:

- MINIMUM DRIVEWAY SHALL BE 9'
- MAXIMUM 900 SF GARAGE
- FENCING / WALLS MAY NOT EXCEED 7' IN HEIGHT AND MAY CONSIST OF WOOD, IRON, VINYL OR MASONRY.
- OVERHANGS MAY ENCROACH 2' INTO ANY YARD.

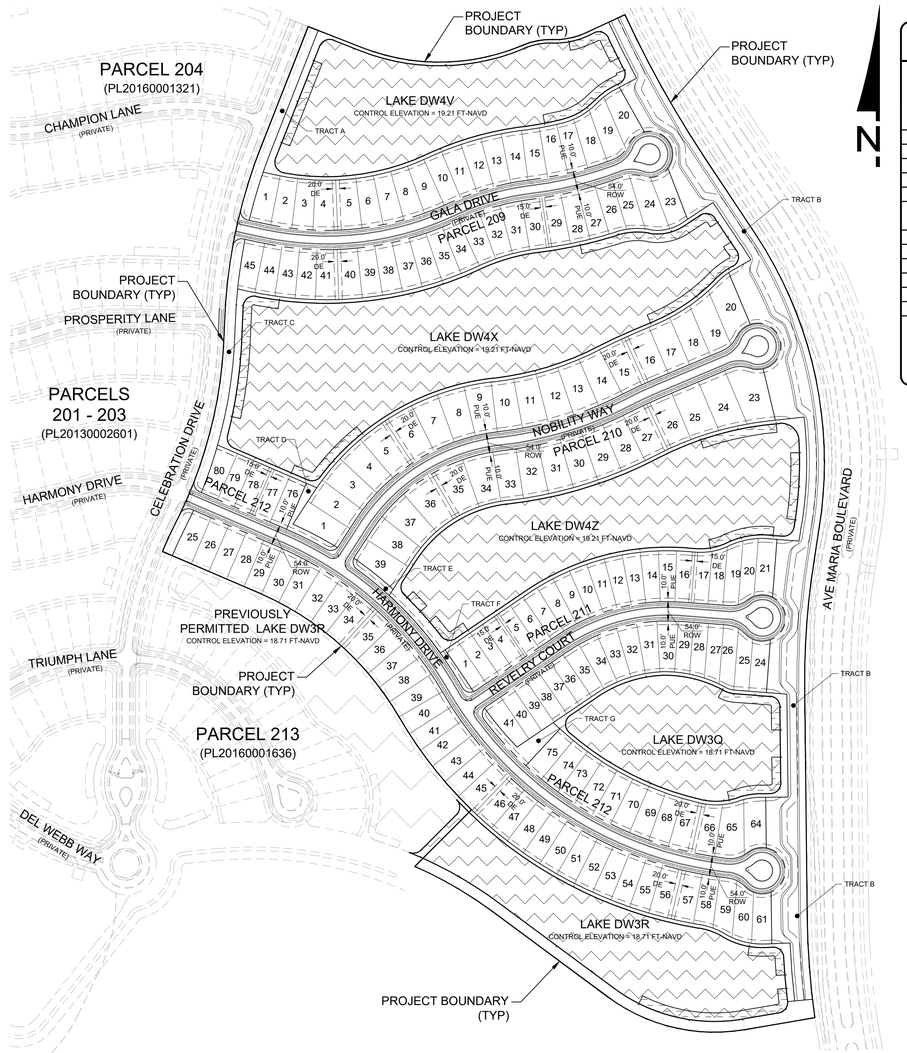


MEDIUM SINGLE FAMILY DETACHED LOT LAYOUT

SCALE: 1" = 30'

(FRONT/SIDE LOADED GARAGE)

(PARCEL 210 LOTS 1 - 39)



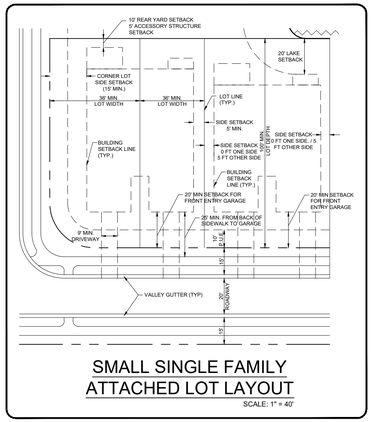
SITE DEVELOPMENT CRITERIA PARAMETERS PER AVE MARIA TOWN PLAN SRA DEVELOPMENT DOCUMENT

	SMALL SINGLE FAMILY DETACHED FRONT OR SIDE LOADED LOTS (PARCEL 211: LOTS 1-21, 24-41)		SMALL SINGLE FAMILY ATTACHED	
CATEGORY	REQUIRED	PROVIDED	REQUIRED	PROVIDED
MINIMUM LOT AREA	4,200 SF	5,992 SF	3,600 SF	5,992 SF
MIN. LOT WIDTH (@ FRONT SETBACK)	42 FT	42.2 FT	36 FT	42.2 FT
MIN. LOT DEPTH	100 FT	142 FT	100 FT	142 FT
FRONT YARD (R.O.W. / BACK OF SIDEWALK)	20 FT / 23 FT	20 FT / 23 FT	20 FT	20 FT / 25 FT
FRONT YARD (SIDE ENTRY)	14 FT	14 FT	N/A	N/A
SIDE YARD	3 FT-1 IN MIN. / MIN. 10 FT TOTAL BOTH SIDES / 10 FT CORNER	5 FT	0 FT ONE SIDE / 5 FT OTHER SIDE / 10 FT CORNER	0 FT ONE SIDE / 5 FT OTHER SIDE
REAR YARD	10 FT	10 FT	10 FT	10 FT
REAR YARD (ACCESSORY)	5 FT	5 FT	5 FT	5 FT
REAR YARD - LAKE (PRINCIPAL & ACCESSORY)	20 FT	20 FT	20 FT	20 FT
MIN. DISTANCE BETWEEN STRUCTURES	10 FT	10 FT	0 OR10 FT	0 OR 10 FT
MAXIMUM BUILDING HEIGHT	2½ STORIES	2½ STORIES	2½ STORIES	2 STORIES
MIN. LANDSCAPE	100 SF	100 SF	100 SF	100 SF

ADDITIONAL REQUIREMENTS:

- MINIMUM DRIVEWAY SHALL BE 9'
- MAXIMUM 900 SF GARAGE
- FENCING / WALLS MAY NOT EXCEED 7' IN HEIGHT AND MAY CONSIST OF WOOD, IRON, VINYL OR MASONRY.
- OVERHANGS MAY ENCROACH 2' INTO ANY YARD.

NOTE: BOTH SINGLE FAMILY DETACHED AND SINGLE FAMILY ATTACHED PRODUCTS ARE PROPOSED AS POSSIBILITIES ON ALL LOTS. THE SINGLE FAMILY DETACHED PRODUCTS MAY NOT BE CONSTRUCTED WITH THE 0' SIDE SETBACK WHERE A DRAINAGE EASEMENT IS LOCATED, SINGLE FAMILY DETACHED STRUCTURES WILL PROVIDE 5' SIDE YARD SETBACKS IN ORDER TO MAINTAIN MINIMUM SEPARATION REQUIREMENTS.



SMALL SINGLE FAMILY ATTACHED LOT LAYOUT

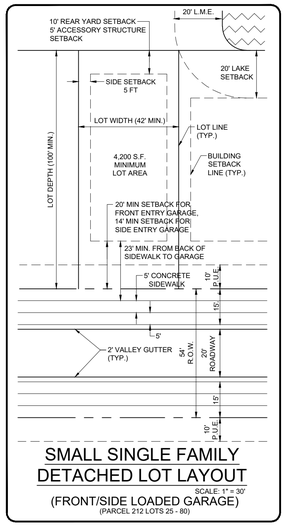
SCALE: 1" = 40'

SITE DEVELOPMENT CRITERIA PARAMETERS PER AVE MARIA TOWN PLAN SRA DEVELOPMENT DOCUMENT

	SMALL SINGLE FAMILY DETACHED FRONT OR SIDE LOADED LOTS (PARCEL 212: LOTS 25-61, 64-80)	
CATEGORY	REQUIRED	PROVIDED
MINIMUM LOT AREA	4,200 SF	7,028 SF
MIN. LOT WIDTH (@ FRONT SETBACK)	42 FT	50.2 FT
MIN. LOT DEPTH	100 FT	140 FT
FRONT YARD (R.O.W. / BACK OF SIDEWALK)	20 FT / 23 FT	20 FT / 23 FT
FRONT YARD (SIDE ENTRY)	14 FT	14 FT
SIDE YARD	3 FT-1 IN MIN. / MIN. 10 FT TOTAL BOTH SIDES / 10 FT CORNER	5 FT
REAR YARD	10 FT	10 FT
REAR YARD (ACCESSORY)	5 FT	5 FT
REAR YARD - LAKE (PRINCIPAL & ACCESSORY)	20 FT	20 FT
MIN. DISTANCE BETWEEN STRUCTURES	10 FT	10 FT
MAXIMUM BUILDING HEIGHT	2½ STORIES	2½ STORIES
MIN. LANDSCAPE	100 SF	100 SF

ADDITIONAL REQUIREMENTS:

- MINIMUM DRIVEWAY SHALL BE 9'
- MAXIMUM 900 SF GARAGE
- FENCING / WALLS MAY NOT EXCEED 7' IN HEIGHT AND MAY CONSIST OF WOOD, IRON, VINYL OR MASONRY.
- OVERHANGS MAY ENCROACH 2' INTO ANY YARD.

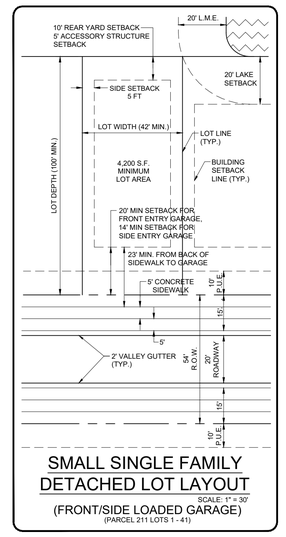


SMALL SINGLE FAMILY DETACHED LOT LAYOUT

SCALE: 1" = 30'

(FRONT/SIDE LOADED GARAGE)

(PARCEL 212 LOTS 25 - 80)



SMALL SINGLE FAMILY DETACHED LOT LAYOUT

SCALE: 1" = 30'

(FRONT/SIDE LOADED GARAGE)

(PARCEL 211 LOTS 1 - 41)

WALDROP ENGINEERING

CIVIL ENGINEERING & LAND DEVELOPMENT CONSULTANTS

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

MASTER ZONING DATA SHEET

PLAN REVISIONS

A	03/01/17	REVISED PER COLLIER COUNTY AND AMC COMMENTS
B	10/18/19	REVISED PER ENGINEER AND CLIENT

REV00 <<SUBMITTED / BID SET>> 01/13/17

0 100 200 400

SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.

FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 5

VERTICAL ELEVATIONS BASED ON: NAVD-88

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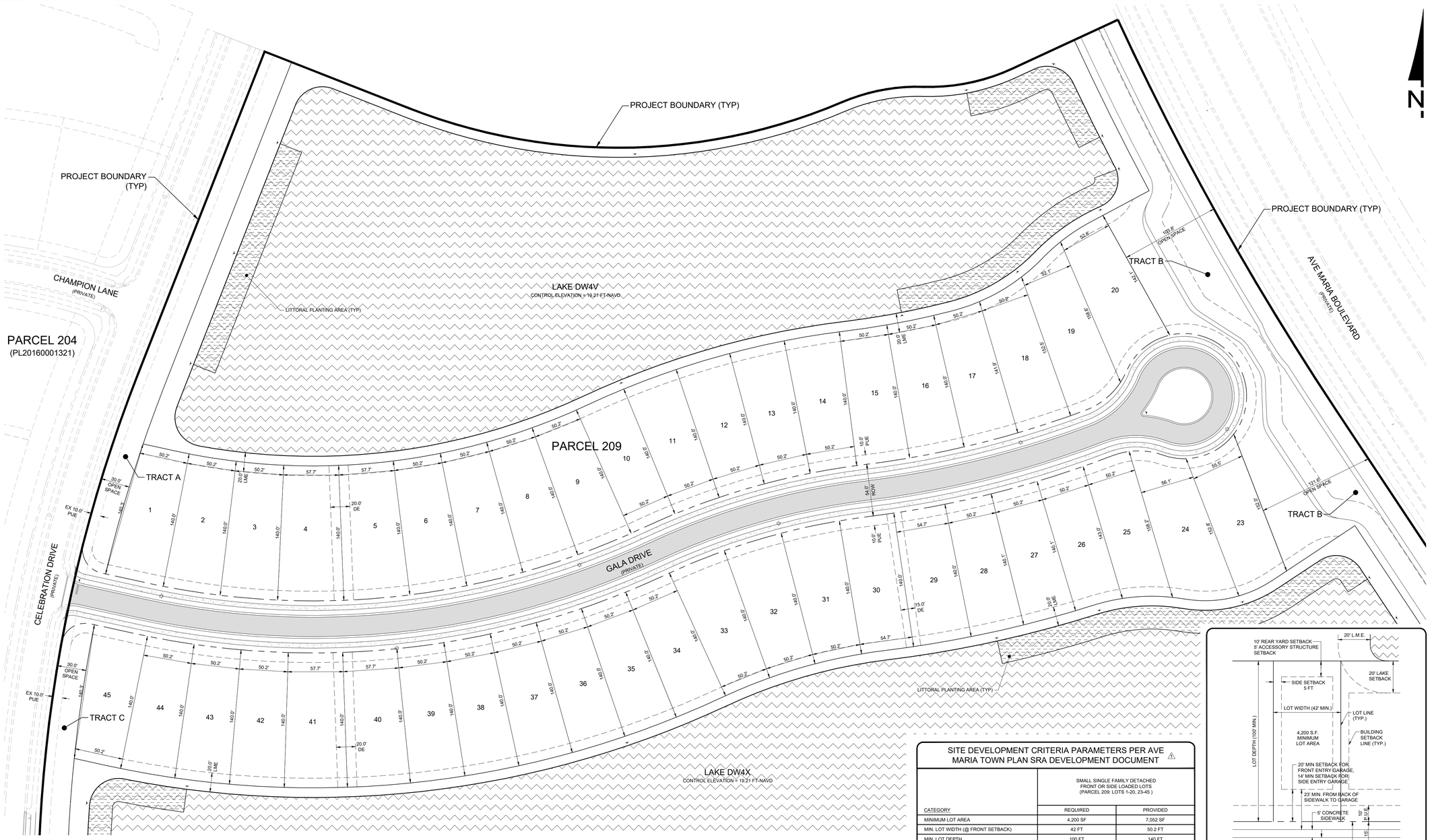


SURFACE WATER MANAGEMENT* PARAMETERS

DRAINAGE BASIN	DW4B
CONTROL ELEVATION (FT-NAVD)	19.21
PEAK 25-YEAR - 3 DAY STORM STAGE (FT-NAVD)	21.81
PEAK 100-YEAR - 3 DAY STORM STAGE (FT-NAVD)	22.31
FEMA ELEVATION (FT-NAVD)	21.01
MIN. ROAD CENTER LINE ELEVATION (FT-NAVD)	22.21
MIN. FINISHED FLOOR ELEVATION (FT-NAVD)	22.31
MIN. PERIMETER BERM ELEVATION (FT-NAVD)	21.81

* SURFACE WATER MANAGEMENT PARAMETERS APPROVED BY THE SFWMD UNDER ERP #11-02336-P (APPLICATION #190830-7) ISSUED ON SEPTEMBER 26 2019.

LOT AREA TABLE

PARCEL 209

LOT #	LOT AREA (SF)	LOT #	LOT AREA (SF)	LOT #	LOT AREA (SF)
1	7,864	16	7,506	33	7,767
2	7,650	17	7,527	34	7,352
3	7,650	18	7,833	35	7,427
4	8,793	19	8,915	36	7,427
5	8,793	20	8,555	37	7,427
6	7,650	23	8,296	38	7,427
7	7,650	24	9,488	39	7,427
8	7,650	25	7,527	40	8,536
9	7,650	26	7,052	41	8,536
10	7,238	27	7,353	42	7,427
11	7,483	28	7,353	43	7,427
12	7,483	29	8,010	44	7,427
13	7,483	30	7,815	45	7,551
14	7,483	31	7,775		
15	7,373	32	7,775		

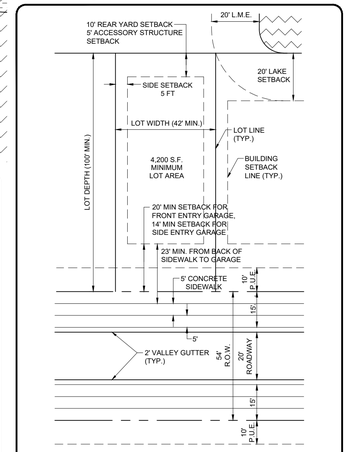
PARCEL 209 TOTAL AREA = 333,831

SITE DEVELOPMENT CRITERIA PARAMETERS PER AVE MARIA TOWN PLAN SRA DEVELOPMENT DOCUMENT

CATEGORY	SMALL SINGLE FAMILY DETACHED FRONT OR SIDE LOADED LOTS (PARCEL 209: LOTS 1-20, 23-45) REQUIRED	PROVIDED
MINIMUM LOT AREA	4,200 SF	7,052 SF
MIN. LOT WIDTH (@ FRONT SETBACK)	42 FT	50.2 FT
MIN. LOT DEPTH	100 FT	140 FT
FRONT YARD (R.O.W. / BACK OF SIDEWALK)	20 FT / 23 FT	20 FT / 23 FT
FRONT YARD (SIDE ENTRY)	14 FT	14 FT
SIDE YARD	3 FT-1 IN MIN. / MIN. 10 FT TOTAL BOTH SIDES / 10 FT CORNER	5 FT
REAR YARD	10 FT	10 FT
REAR YARD (ACCESSORY)	5 FT	5 FT
REAR YARD - LAKE (PRINCIPAL & ACCESSORY)	20 FT	20 FT
MIN. DISTANCE BETWEEN STRUCTURES	10 FT	10 FT
MAXIMUM BUILDING HEIGHT	2½ STORIES	2½ STORIES
MIN. LANDSCAPE	100 SF	100 SF

ADDITIONAL REQUIREMENTS:

- MINIMUM DRIVEWAY SHALL BE 9'
- MAXIMUM 900 SF GARAGE
- FENCING / WALLS MAY NOT EXCEED 7' IN HEIGHT AND MAY CONSIST OF WOOD, IRON, VINYL OR MASONRY.
- OVERHANGS MAY ENCROACH 2' INTO ANY YARD.



SMALL SINGLE FAMILY DETACHED LOT LAYOUT

SCALE: 1" = 30'

(FRONT/SIDE LOADED GARAGE)

VERTICAL ELEVATIONS BASED ON: NAVD-88

WALDROP ENGINEERING
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25100 BONITA GRANDE DRIVE - SUITE 305 BONITA SPRINGS, FL 34135
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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

ZONING DATA SHEET - GALA DRIVE

PLAN REVISIONS	REV/00 <<SUBMITTED / BID SET>> 01/13/17
03/01/17	REVISED PER COLLIER COUNTY AND AMAC COMMENTS
05/18/18	REVISED PER ENGINEER AND CLIENT

SCALE IN FEET: 0, 25, 50, 100

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 6

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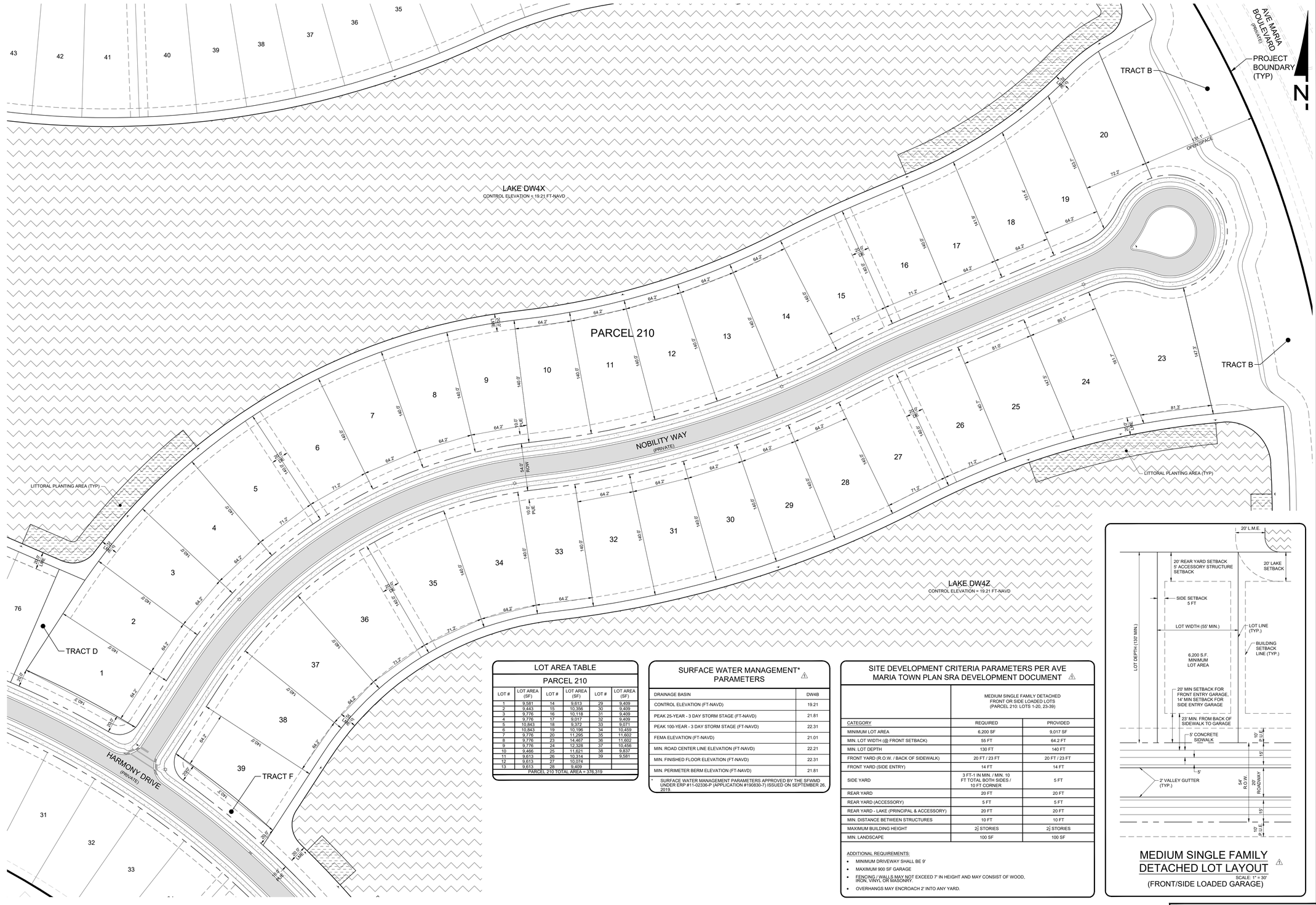

LOT AREA TABLE

PARCEL 210

LOT #	LOT AREA (SF)	LOT #	LOT AREA (SF)	LOT #	LOT AREA (SF)
1	9,581	14	9,613	29	9,409
2	9,443	15	10,356	30	9,409
3	9,776	16	10,118	31	9,409
4	9,776	17	9,017	32	9,409
5	10,843	18	9,372	33	9,071
6	10,843	19	10,196	34	10,459
7	9,776	20	11,295	35	11,602
8	9,776	23	14,467	36	11,602
9	9,776	24	12,328	37	10,456
10	9,456	25	11,621	38	9,837
11	9,613	26	10,314	39	9,581
12	9,613	27	10,074		
13	9,613	28	9,409		

PARCEL 210 TOTAL AREA = 376,319

SURFACE WATER MANAGEMENT* PARAMETERS

DRAINAGE BASIN	DW4B
CONTROL ELEVATION (FT-NAVD)	19.21
PEAK 25-YEAR - 3 DAY STORM STAGE (FT-NAVD)	21.81
PEAK 100-YEAR - 3 DAY STORM STAGE (FT-NAVD)	22.31
FEMA ELEVATION (FT-NAVD)	21.01
MIN. ROAD CENTER LINE ELEVATION (FT-NAVD)	22.21
MIN. FINISHED FLOOR ELEVATION (FT-NAVD)	22.31
MIN. PERIMETER BERM ELEVATION (FT-NAVD)	21.81

* SURFACE WATER MANAGEMENT PARAMETERS APPROVED BY THE SFWMD UNDER ERP #11-02336-P (APPLICATION #190830-7) ISSUED ON SEPTEMBER 26, 2019.

SITE DEVELOPMENT CRITERIA PARAMETERS PER AVE MARIA TOWN PLAN SRA DEVELOPMENT DOCUMENT

	MEDIUM SINGLE FAMILY DETACHED FRONT OR SIDE LOADED LOTS (PARCEL 210: LOTS 1-20, 23-39)	
CATEGORY	REQUIRED	PROVIDED
MINIMUM LOT AREA	6,200 SF	9,017 SF
MIN. LOT WIDTH (@ FRONT SETBACK)	55 FT	64.2 FT
MIN. LOT DEPTH	130 FT	140 FT
FRONT YARD (R.O.W. / BACK OF SIDEWALK)	20 FT / 23 FT	20 FT / 23 FT
FRONT YARD (SIDE ENTRY)	14 FT	14 FT
SIDE YARD	3 FT-1 IN MIN. / MIN. 10 FT TOTAL BOTH SIDES / 10 FT CORNER	5 FT
REAR YARD	20 FT	20 FT
REAR YARD (ACCESSORY)	5 FT	5 FT
REAR YARD - LAKE (PRINCIPAL & ACCESSORY)	20 FT	20 FT
MIN. DISTANCE BETWEEN STRUCTURES	10 FT	10 FT
MAXIMUM BUILDING HEIGHT	2½ STORIES	2½ STORIES
MIN. LANDSCAPE	100 SF	100 SF

ADDITIONAL REQUIREMENTS:

- MINIMUM DRIVEWAY SHALL BE 9'
- MAXIMUM 900 SF GARAGE
- FENCING / WALLS MAY NOT EXCEED 7' IN HEIGHT AND MAY CONSIST OF WOOD, IRON, VINYL OR MASONRY.
- OVERHANGS MAY ENCROACH 2' INTO ANY YARD.

MEDIUM SINGLE FAMILY DETACHED LOT LAYOUT

SCALE: 1" = 30'

(FRONT/SIDE LOADED GARAGE)

VERTICAL ELEVATIONS BASED ON: NAVD-88

WALDROP ENGINEERING

CIVIL ENGINEERING & LAND DEVELOPMENT CONSULTANTS

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

ZONING DATA SHEET - NOBILITY WAY

PLAN REVISIONS

REV00 <<SUBMITTED / BID SET>> 01/13/17

1	03/01/17	REVISED PER COLLIER COUNTY AND AMLC COMMENTS
2	10/18/19	REVISED PER ENGINEER AND CLIENT

0 25 50 100

SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 7

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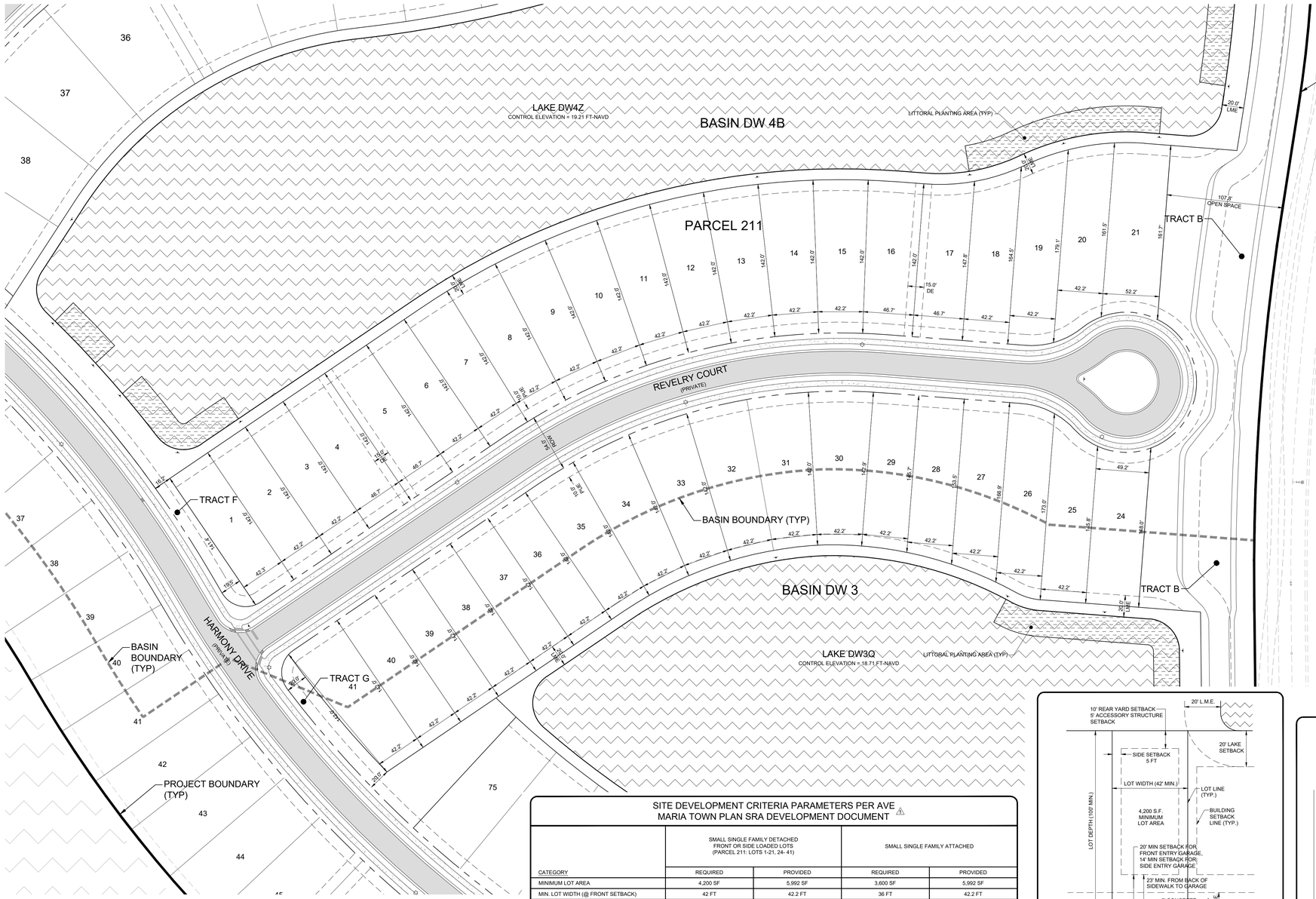


LOT AREA TABLE

PARCEL 211

LOT #	LOT AREA (SF)	LOT #	LOT AREA (SF)
1	6,010	24	7,074
2	5,992	25	6,704
3	5,992	26	7,308
4	6,631	27	6,740
5	6,631	28	6,294
6	5,992	29	6,073
7	6,314	30	7,199
8	6,526	31	6,990
9	6,526	32	6,990
10	6,526	33	6,990
11	6,526	34	6,990
12	6,526	35	6,660
13	6,526	36	5,992
14	6,526	37	5,992
15	6,526	38	5,992
16	6,924	39	5,992
17	6,719	40	5,992
18	6,548	41	7,014
19	7,344		
20	7,252		
21	8,265		

PARCEL 211 TOTAL AREA = 257,808

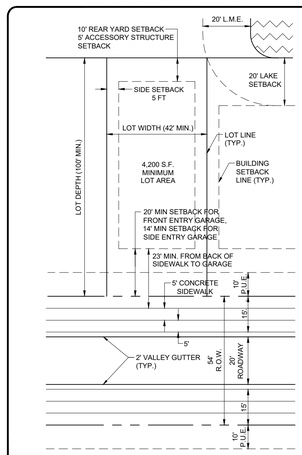
SITE DEVELOPMENT CRITERIA PARAMETERS PER AVE MARIA TOWN PLAN SRA DEVELOPMENT DOCUMENT ⚠

	SMALL SINGLE FAMILY DETACHED FRONT OR SIDE LOADED LOTS (PARCEL 211: LOTS 1-21, 24- 41)		SMALL SINGLE FAMILY ATTACHED	
CATEGORY	REQUIRED	PROVIDED	REQUIRED	PROVIDED
MINIMUM LOT AREA	4,200 SF	5,992 SF	3,600 SF	5,992 SF
MIN. LOT WIDTH (@ FRONT SETBACK)	42 FT	42.2 FT	36 FT	42.2 FT
MIN. LOT DEPTH	100 FT	142 FT	100 FT	142 FT
FRONT YARD (R.O.W. / BACK OF SIDEWALK)	20 FT / 23 FT	20 FT / 23 FT	20 FT	20 FT / 25 FT
FRONT YARD (SIDE ENTRY)	14 FT	14 FT	N/A	N/A
SIDE YARD	3 FT-1 IN MIN. / MIN. 10 FT TOTAL BOTH SIDES / 10 FT CORNER	5 FT	0 FT ONE SIDE / 5 FT OTHER SIDE / 10 FT CORNER	0 FT ONE SIDE / 5 FT OTHER SIDE
REAR YARD	10 FT	10 FT	10 FT	10 FT
REAR YARD (ACCESSORY)	5 FT	5 FT	5 FT	5 FT
REAR YARD - LAKE (PRINCIPAL & ACCESSORY)	20 FT	20 FT	20 FT	20 FT
MIN. DISTANCE BETWEEN STRUCTURES	10 FT	10 FT	0 OR10 FT	0 OR 10 FT
MAXIMUM BUILDING HEIGHT	2½ STORIES	2½ STORIES	2½ STORIES	2 STORIES
MIN. LANDSCAPE	100 SF	100 SF	100 SF	100 SF

ADDITIONAL REQUIREMENTS:

- MINIMUM DRIVEWAY SHALL BE 9'
- MAXIMUM 900 SF GARAGE
- FENCING / WALLS MAY NOT EXCEED 7' IN HEIGHT AND MAY CONSIST OF WOOD, IRON, VINYL OR MASONRY.
- OVERHANGS MAY ENCROACH 2' INTO ANY YARD.

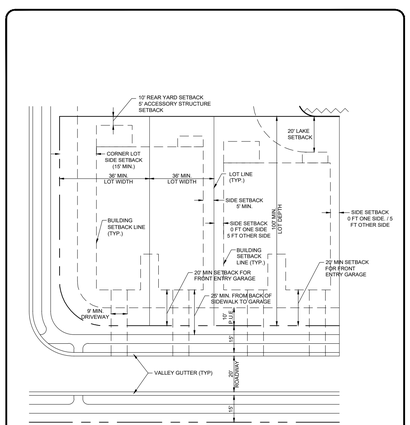
NOTE: BOTH SINGLE FAMILY DETACHED AND SINGLE FAMILY ATTACHED PRODUCTS ARE PROPOSED AS POSSIBILITIES ON ALL LOTS. THE SINGLE FAMILY DETACHED PRODUCTS MAY NOT BE CONSTRUCTED WITH THE 0' SIDE SETBACK WHERE A DRAINAGE EASEMENT IS LOCATED, SINGLE FAMILY DETACHED STRUCTURES WILL PROVIDE 5' SIDE YARD SETBACKS IN ORDER TO MAINTAIN MINIMUM SEPARATION REQUIREMENTS.



SMALL SINGLE FAMILY DETACHED LOT LAYOUT ⚠

SCALE: 1" = 30'

(FRONT/SIDE LOADED GARAGE)



SMALL SINGLE FAMILY ATTACHED LOT LAYOUT

SCALE: 1" = 40'

SURFACE WATER MANAGEMENT* PARAMETERS ⚠

DRAINAGE BASIN	DW3	DW4B
CONTROL ELEVATION (FT-NAVD)	18.71	19.21
PEAK 25-YEAR - 3 DAY STORM STAGE (FT-NAVD)	21.51	21.81
PEAK 100-YEAR - 3 DAY STORM STAGE (FT-NAVD)	22.21	22.31
FEMA ELEVATION (FT-NAVD)	21.01	21.01
MIN. ROAD CENTER LINE ELEVATION (FT-NAVD)	21.51	22.21
MIN. FINISHED FLOOR ELEVATION (FT-NAVD)	22.21	22.31
MIN. PERIMETER BERM ELEVATION (FT-NAVD)	21.51	21.81

* SURFACE WATER MANAGEMENT PARAMETERS APPROVED BY THE SFWMD UNDER ERP #11-02336-P (APPLICATION #190830-7) ISSUED ON SEPTEMBER 26, 2019.

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

ZONING DATA SHEET - REVELRY COURT

PLAN REVISIONS	
⚠ 08/01/17	REVISED PER COLLIER COUNTY AND AMEC COMMENTS
⚠ 10/18/19	REVISED PER ENGINEER AND CLIENT
⚠	

REV00 <<SUBMITTED / BID SET>> 01/13/17

0 25 50 100

SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 8

VERTICAL ELEVATIONS BASED ON: NAVD-88

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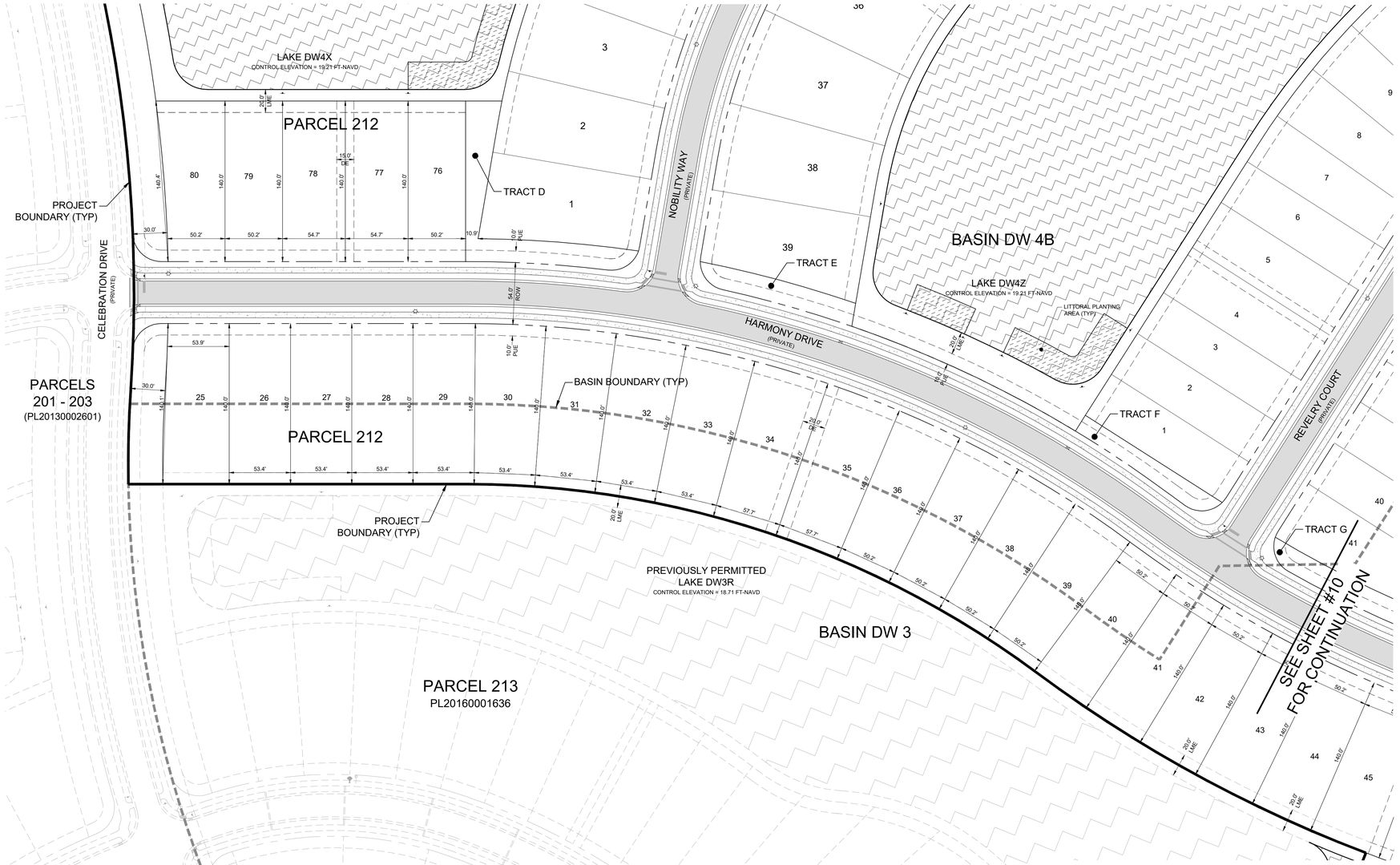
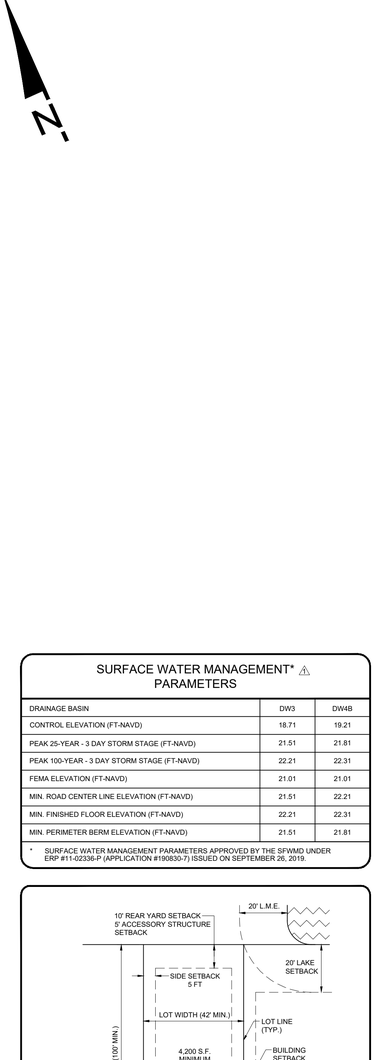


SURFACE WATER MANAGEMENT* ⚠ PARAMETERS

DRAINAGE BASIN	DW3	DW4B
CONTROL ELEVATION (FT-NAVD)	18.71	19.21
PEAK 25-YEAR - 3 DAY STORM STAGE (FT-NAVD)	21.51	21.81
PEAK 100-YEAR - 3 DAY STORM STAGE (FT-NAVD)	22.21	22.31
FEMA ELEVATION (FT-NAVD)	21.01	21.01
MIN. ROAD CENTER LINE ELEVATION (FT-NAVD)	21.51	22.21
MIN. FINISHED FLOOR ELEVATION (FT-NAVD)	22.21	22.31
MIN. PERIMETER BERM ELEVATION (FT-NAVD)	21.51	21.81

* SURFACE WATER MANAGEMENT PARAMETERS APPROVED BY THE SFWMD UNDER ERP #11-02336-P (APPLICATION #190830-7) ISSUED ON SEPTEMBER 26, 2019.



SMALL SINGLE FAMILY DETACHED LOT LAYOUT ⚠

SCALE: 1" = 30'

(FRONT/SIDE LOADED GARAGE)

LOT AREA TABLE

PARCEL 212

LOT #	LOT AREA (SF)	LOT #	LOT AREA (SF)	LOT #	LOT AREA (SF)
25	7,511	44	7,458	65	7,326
26	7,028	45	7,924	66	7,529
27	7,658	46	9,041	67	7,529
28	7,658	47	7,409	68	7,529
29	7,028	48	8,455	69	7,529
30	7,514	49	8,455	70	8,655
31	7,514	50	7,356	71	8,655
32	7,514	51	7,356	72	8,009
33	7,514	52	7,356	73	8,009
34	7,514	53	7,356	74	8,009
35	7,514	54	7,356	75	8,009
36	7,514	55	7,356	76	7,541
37	7,514	56	7,356	77	7,476
38	8,637	57	7,356	78	7,476
39	8,764	58	7,356	79	7,476
40	10,936	59	8,455	80	7,869
41	8,886	60	8,455		
42	10,029	61	7,356		
43	8,251	64	7,356		

PARCEL 212 TOTAL AREA = 422,692

SITE DEVELOPMENT CRITERIA PARAMETERS PER AVE MARIA TOWN PLAN SRA DEVELOPMENT DOCUMENT ⚠

	SMALL SINGLE FAMILY DETACHED FRONT OR SIDE LOADED LOTS (PARCEL 212: LOTS 25-61, 64-80)	
CATEGORY	REQUIRED	PROVIDED
MINIMUM LOT AREA	4,200 SF	7,028 SF
MIN. LOT WIDTH (@ FRONT SETBACK)	42 FT	50.2 FT
MIN. LOT DEPTH	100 FT	140 FT
FRONT YARD (R.O.W. / BACK OF SIDEWALK)	20 FT / 23 FT	20 FT / 23 FT
FRONT YARD (SIDE ENTRY)	14 FT	14 FT
SIDE YARD	3 FT-1 IN MIN. / MIN. 10 FT TOTAL BOTH SIDES / 10 FT CORNER	5 FT
REAR YARD	10 FT	10 FT
REAR YARD (ACCESSORY)	5 FT	5 FT
REAR YARD - LAKE (PRINCIPAL & ACCESSORY)	20 FT	20 FT
MIN. DISTANCE BETWEEN STRUCTURES	10 FT	10 FT
MAXIMUM BUILDING HEIGHT	2½ STORIES	2½ STORIES
MIN. LANDSCAPE	100 SF	100 SF

ADDITIONAL REQUIREMENTS:

- MINIMUM DRIVEWAY SHALL BE 9'
- MAXIMUM 900 SF GARAGE
- FENCING / WALLS MAY NOT EXCEED 7' IN HEIGHT AND MAY CONSIST OF WOOD, IRON, VINYL OR MASONRY.
- OVERHANGS MAY ENCROACH 2' INTO ANY YARD.

VERTICAL ELEVATIONS BASED ON: NAVD-88

WALDROP ENGINEERING
CIVIL ENGINEERING & LAND DEVELOPMENT CONSULTANTS
25100 BONITA GRANDE DRIVE - SUITE 305 BONITA SPRINGS, FL 34135
P: 239-405-7777 F: 239-405-7899 EMAIL: info@waldropengineering.com

PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

ZONING DATA SHEET - HARMONY DRIVE (A)

PLAN REVISIONS

1	03/01/17	REVISED PER COLLIER COUNTY AND AMUC COMMENTS
2	10/18/19	REVISED PER ENGINEER AND CLIENT

REV00 <<SUBMITTED / BID SET>> 01/13/17

0 25 50 100

SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 9

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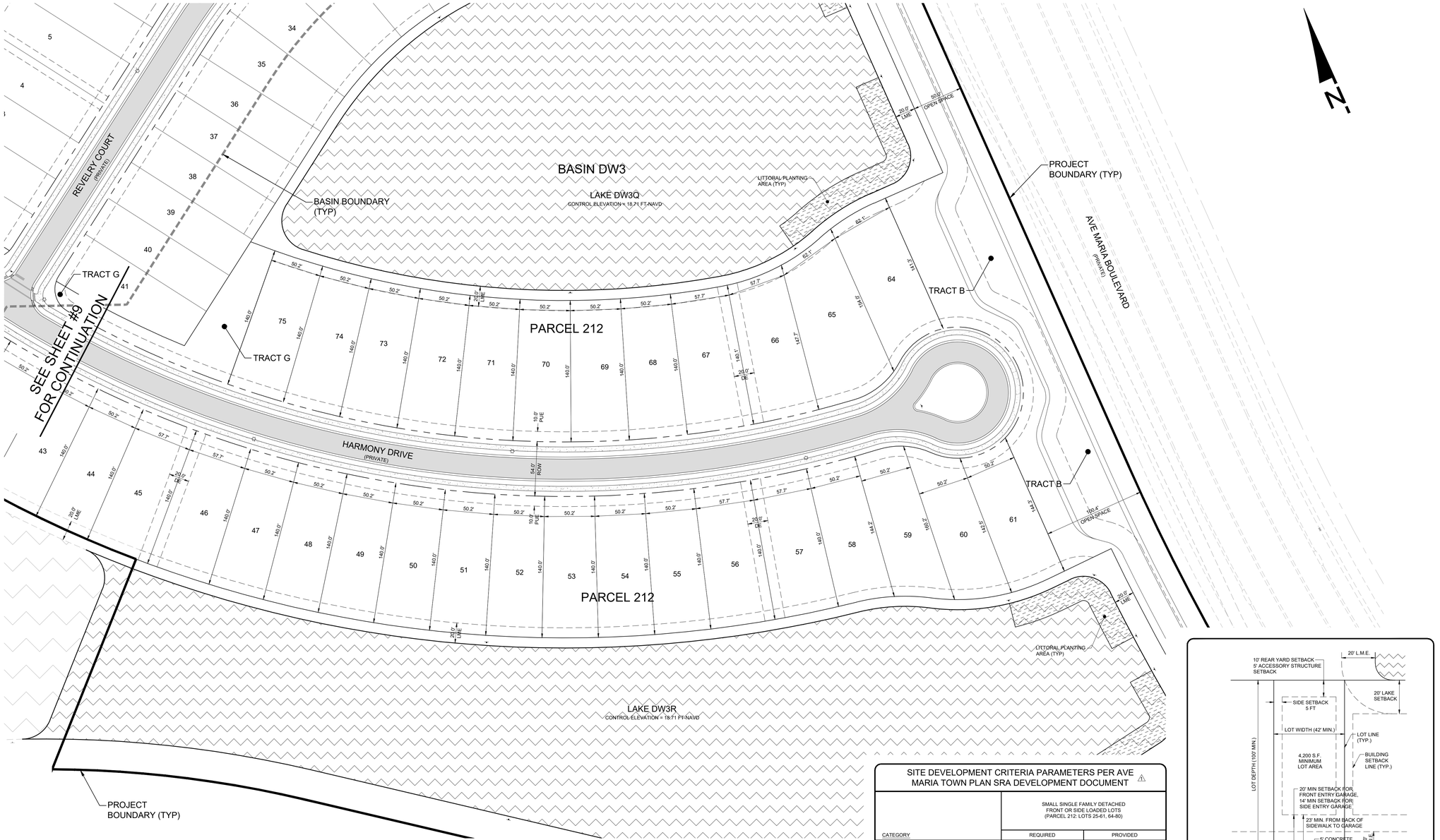

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PARCEL 212 TOTAL AREA = 422,692

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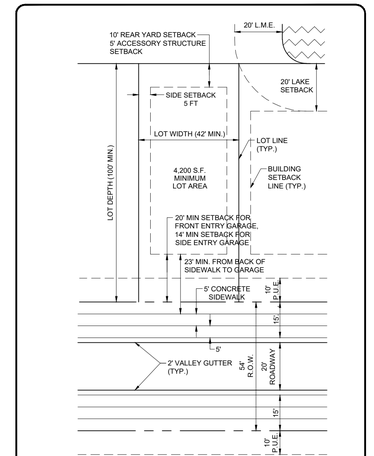

SMALL SINGLE FAMILY DETACHED LOT LAYOUT ⚠

SCALE: 1" = 30'

(FRONT/SIDE LOADED GARAGE)

VERTICAL ELEVATIONS BASED ON: NAVD-88

WALDROP ENGINEERING

CIVIL ENGINEERING & LAND DEVELOPMENT CONSULTANTS

25100 BONITA GRANDE DRIVE - SUITE 305 BONITA SPRINGS, FL 34135
P: 239-405-7777 F: 239-405-7899 EMAIL: info@waldropengineering.com

PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

ZONING DATA SHEET - HARMONY DRIVE (B)

PLAN REVISIONS

⚠	03/01/17	REVISED PER COLLIER COUNTY AND AMEC COMMENTS
⚠	10/18/19	REVISED PER ENGINEER AND CLIENT

REV(#) <<SUBMITTED / BID SET>> 01/13/17

0 25 50 100

SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 10

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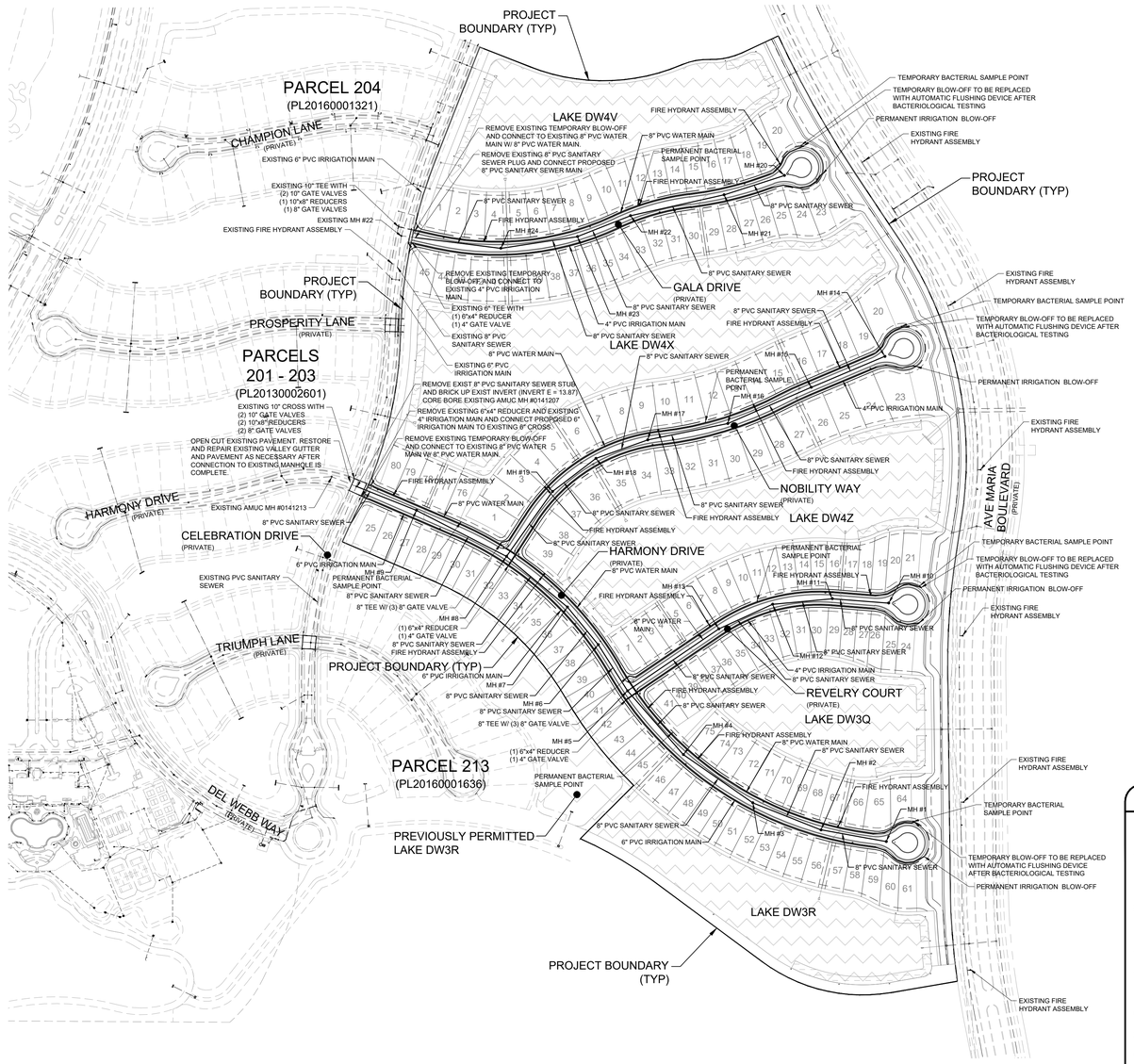
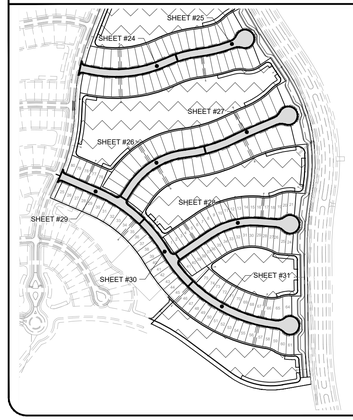


PLAN AND PROFILE KEY MAP



UTILITIES PROVIDING SERVICE

POTABLE WATER AND SANITARY SEWER:
AVE MARIA UTILITY COMPANY
5079 ANNUNCIATION CIRCLE, SUITE 102
AVE MARIA, FLORIDA 34142
PHONE (239) 348-0248

CABLE TELEVISION:
COMCAST
12600 WESTLINKS DR.
FORT MYERS, FLORIDA 33913
PHONE (239) 432-1804

FIRE CONTROL DISTRICT:
IMMOKALEE FIRE DEPARTMENT
502 EAST NEW MARKET RD.
IMMOKALEE, FLORIDA 34142
PHONE (239) 657-2111

TELEPHONE:
COMCAST
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UTILITY LOCATING SERVICE:
SUNSHINE STATE ONE CALL CENTER
PHONE (800) 432-4770
(MINIMUM 48 HOURS NOTICE REQUIRED)

ELECTRIC:
LEE COUNTY ELECTRIC CO-OP
4980 BAYLINE DRIVE
NORTH FORT MYERS, FLORIDA 33917
PHONE (239) 995-2121

VERTICAL ELEVATIONS BASED ON: NAVD-88

WALDROP ENGINEERING
CIVIL ENGINEERING & LAND DEVELOPMENT CONSULTANTS
28100 BONITA GRANDE DRIVE - SUITE 305 BONITA SPRINGS, FL 34135
P: 239-405-7777 F: 239-405-7899 EMAIL: info@waldropengineering.com

PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

MASTER UTILITY PLAN

PLAN REVISIONS		REV00 <<SUBMITTED / BID SET>> 01/13/17
1	03/01/17	REVISED PER COLLIER COUNTY AND AMUC COMMENTS
2	10/18/19	REVISED PER ENGINEER AND CLIENT

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SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 86421

SET NUMBER: 133-59-01

SHEET : 11

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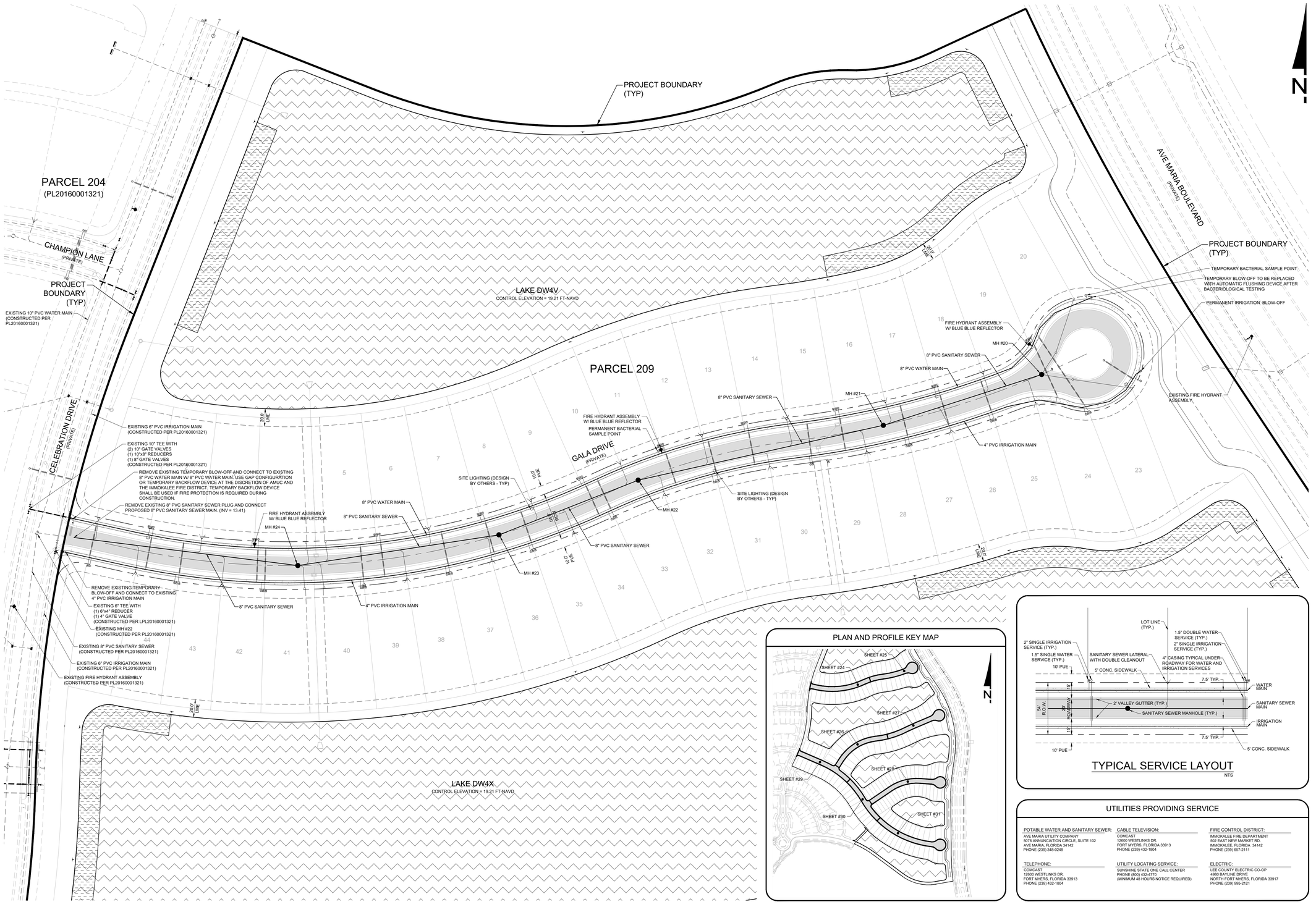

PLAN AND PROFILE KEY MAP

TYPICAL SERVICE LAYOUT

NTS

UTILITIES PROVIDING SERVICE

POTABLE WATER AND SANITARY SEWER:
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5079 ANNUNCIATION CIRCLE, SUITE 102
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P: 239-405-7777 F: 239-405-7899 EMAIL: info@waldropengineering.com

PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

MASTER UTILITY PLAN - GALA DRIVE

PLAN REVISIONS		
		REV00 <<SUBMITTED / BID SET>> 01/13/17
1	03/01/17	REVISED PER COLLIER COUNTY AND AMUC COMMENTS
2	10/18/19	REVISED PER ENGINEER AND CLIENT

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SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 12

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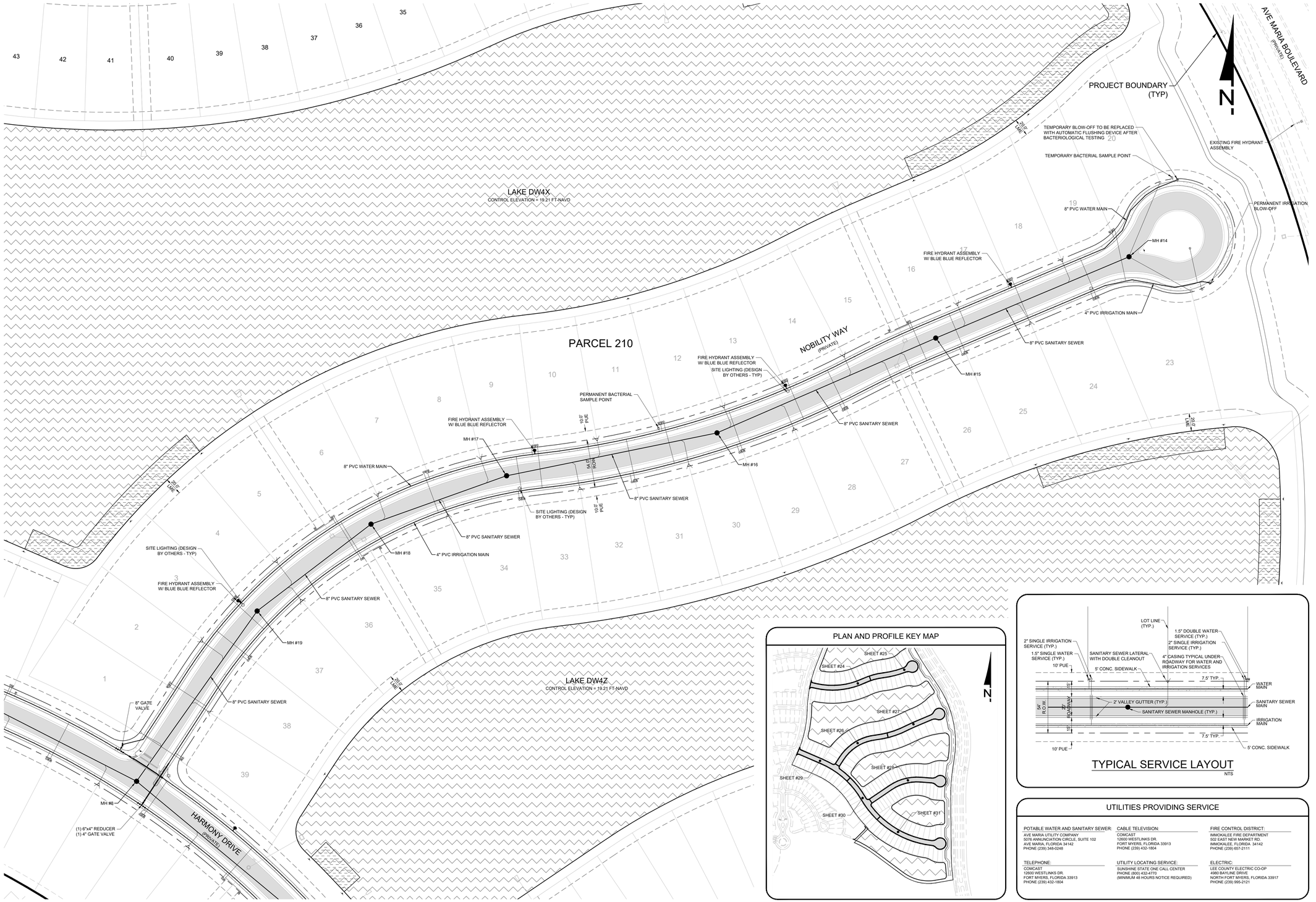

PLAN AND PROFILE KEY MAP

TYPICAL SERVICE LAYOUT

NTS

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AVE MARIA UTILITY COMPANY
5076 ANNUNCIATION CIRCLE, SUITE 102
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VERTICAL ELEVATIONS BASED ON: NAVD-88

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25100 BONITA GRANDE DRIVE - SUITE 305 BONITA SPRINGS, FL 34135
P: 239-405-7777 F: 239-405-7899 EMAIL: info@waldropengineering.com

PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

MASTER UTILITY PLAN - NOBILITY WAY

PLAN REVISIONS	REV00 <<SUBMITTED / BID SET>> 01/13/17
1 03/01/17	REVISED PER COLLIER COUNTY AND AMUC COMMENTS
2 10/18/19	REVISED PER ENGINEER AND CLIENT
3	
4	
5	

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SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 13

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LAKE DW4Z
CONTROL ELEVATION = 19.21 FT-NAVD

PARCEL 211

REVELRY COURT
(PRIVATE)

AVE MARIA BOULEVARD
(PRIVATE)

HARMONY DRIVE
(PRIVATE)

LAKE DW3Q
CONTROL ELEVATION = 16.71 FT-NAVD

8" PVC WATER MAIN
FIRE HYDRANT ASSEMBLY W/ BLUE BLUE REFLECTOR
PERMANENT BACTERIAL SAMPLE POINT
MH #10
MH #11
MH #12
MH #13
8" PVC SANITARY SEWER
4" PVC IRRIGATION MAIN
10.0' PUE
40.0' ROW
20.0' LAKE
PROJECT BOUNDARY (TYP)
TEMPORARY BACTERIAL SAMPLE POINT
TEMPORARY BLOW-OFF TO BE REPLACED WITH AUTOMATIC FLUSHING DEVICE AFTER BACTERIOLOGICAL TESTING
PERMANENT IRRIGATION BLOW-OFF
EXISTING FIRE HYDRANT ASSEMBLY
SITE LIGHTING (DESIGN BY OTHERS - TYP)
8" GATE VALVE
MH #5
(1) 6"x4" REDUCER
(1) 4" GATE VALVE

N

PLAN AND PROFILE KEY MAP

TYPICAL SERVICE LAYOUT
NTS

UTILITIES PROVIDING SERVICE

POTABLE WATER AND SANITARY SEWER:
AVE MARIA UTILITY COMPANY
5076 ANNUNCIATION CIRCLE, SUITE 102
AVE MARIA, FLORIDA 34142
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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

MASTER UTILITY PLAN - REVELRY COURT

PLAN REVISIONS	REVIS <<SUBMITTED / BID SET>> 01/13/17
05/01/17	REVISED PER COLLIER COUNTY AND AMUC COMMENTS
10/18/19	REVISED PER ENGINEER AND CLIENT

0 25 50 100
SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

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FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 14

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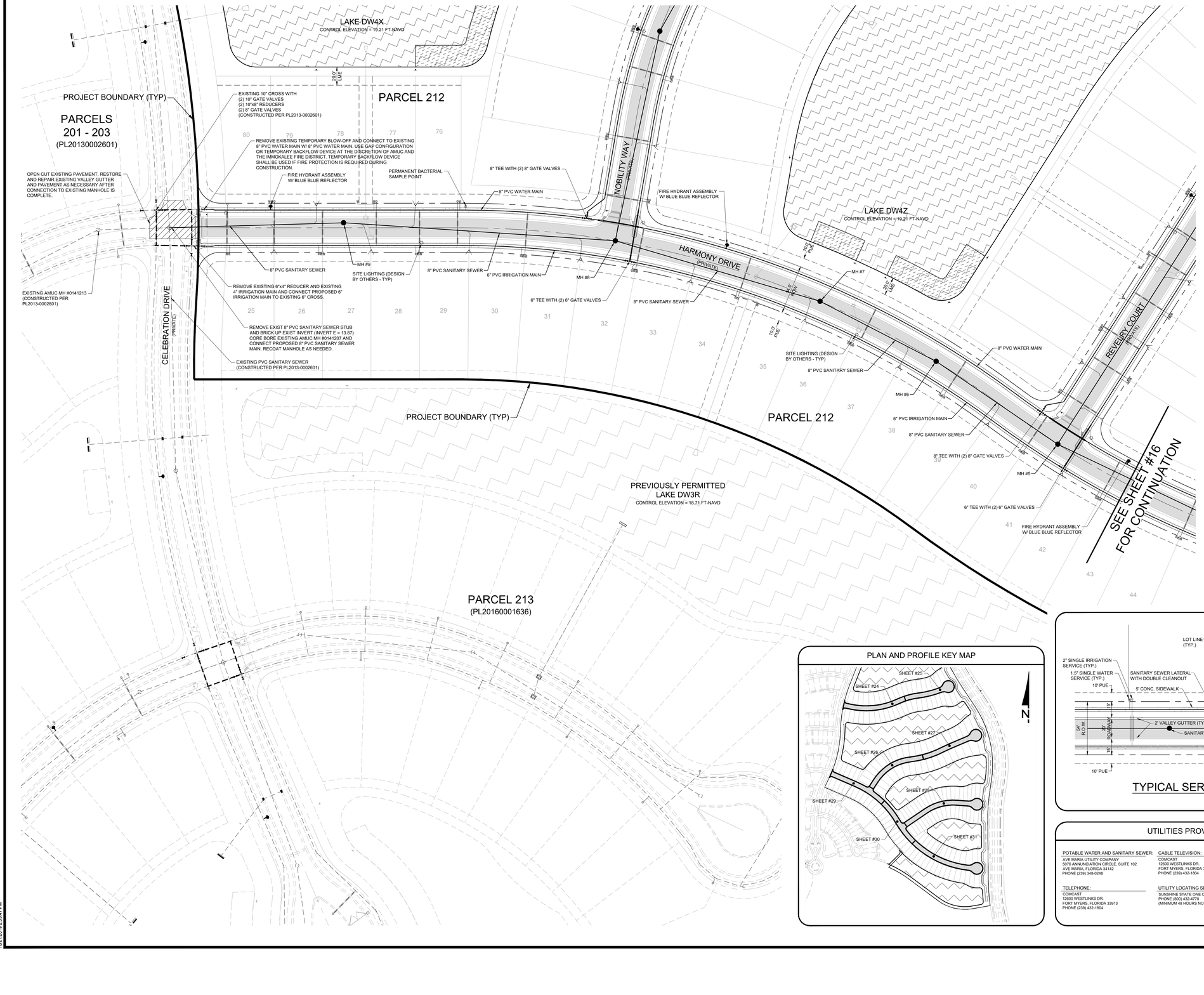
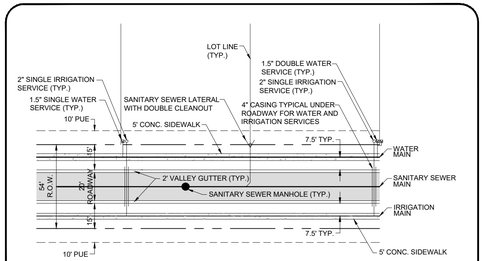


PLAN AND PROFILE KEY MAP

TYPICAL SERVICE LAYOUT

NTS



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VERTICAL ELEVATIONS BASED ON: NAVD-88

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

MASTER UTILITY PLAN - HARMONY DRIVE (A)

PLAN REVISIONS	REV/00 <<SUBMITTED / BID SET>> 01/13/17
A 03/01/17	REVISED PER COLLIER COUNTY AND AMUC COMMENTS
B 10/18/19	REVISED PER ENGINEER AND CLIENT

0 25 50 100
SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 15

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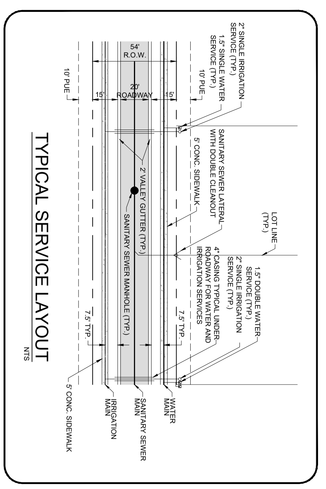


UTILITIES PROVIDING SERVICE

POTABLE WATER AND SANITARY SEWER:
COLLIER COUNTY WATER-SEWER DEPT.
3339 TAMIAMI TRAIL EAST
BUILDING F, 2ND FLOOR
NAPLES, FLORIDA 34112
PHONE (239) 252-2380

CABLE TELEVISION:
COMCAST
10050 WESTLAKE DR.
BONITA SPRINGS, FL 34135
PHONE (239) 405-7000

FIRE CONTROL DISTRICT:
BIG CORKSCREW FIRE DISTRICT
502 EAST KEW MANOR RD.
IMMOKALEE, FLORIDA 34142
PHONE (239) 657-2111

TELEPHONE:
CENTURYLINK
10801 PINE GROVE WAY
FORT MYERS, FLORIDA 33913
PHONE (239) 432-1304

UTILITY LOCATING SERVICE:
SUNSHINE STATE ONE CALL CENTER
(SUNSHINE 48 HOURS NOTICE REQUIRED)

ELECTRIC:
LEE COUNTY ELECTRIC COOP
P.O. BOX 3455
NORTH FORT MYERS, FLORIDA 33917
PHONE (239) 995-2121

VERTICAL ELEVATIONS BASED ON: NAVD 88

PLAN REVISIONS	REV00 <<SUBMITTED / BID SET>> 01/13/17
1	03/01/17 REVISED PER COLLIER COUNTY AND AMUC COMMENTS
2	10/18/19 REVISED PER ENGINEER AND CLIENT

SCALE IN FEET
0 25 50 100

PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

MASTER UTILITY PLAN - HARMONY DRIVE (B)

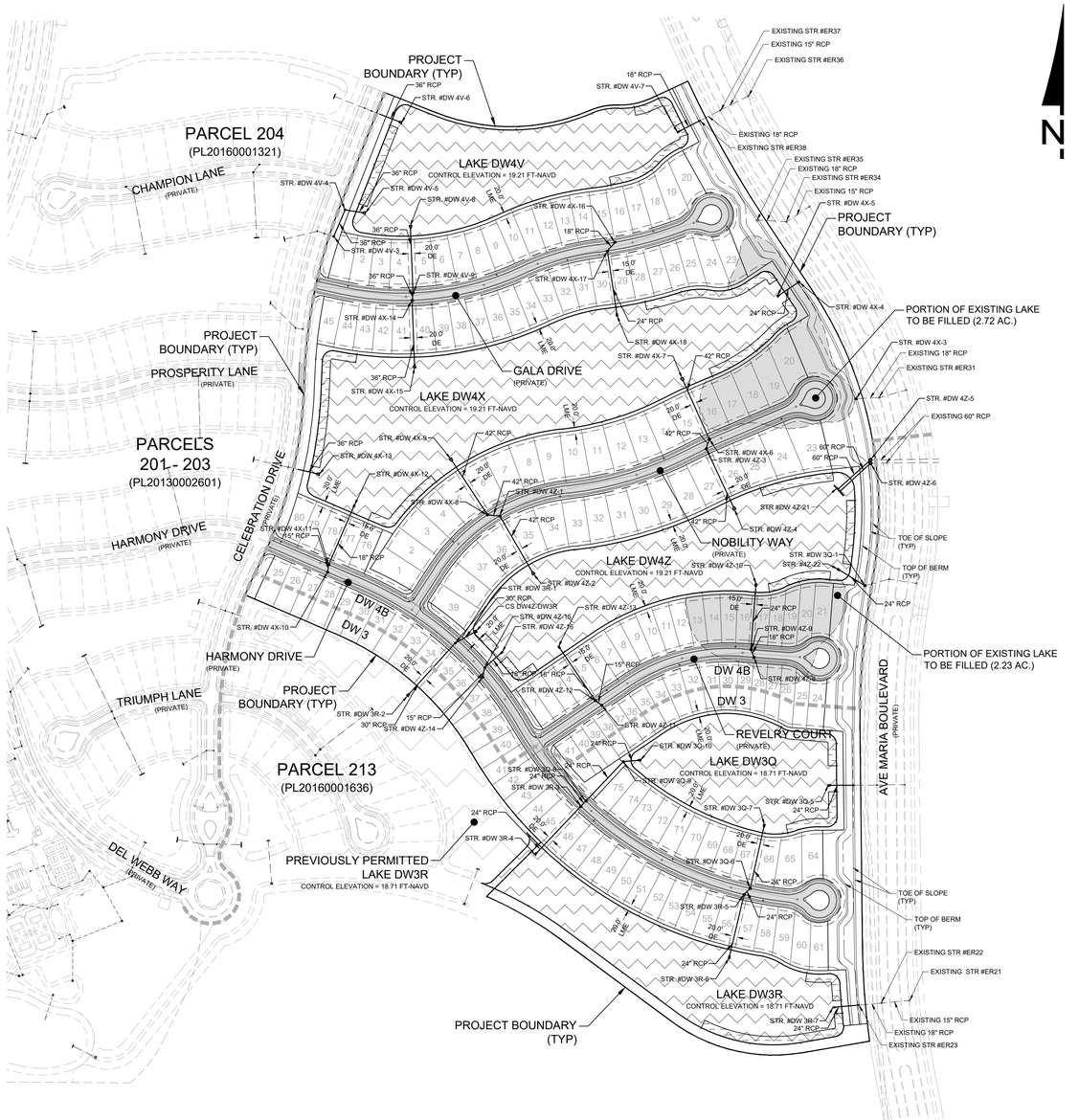
WALDROP ENGINEERING
CIVIL ENGINEERING & LAND DEVELOPMENT CONSULTANTS
28100 BONITA GRANDE DRIVE - SUITE 305 BONITA SPRINGS, FL 34135
P: 239-405-7777 F: 239-405-7899 EMAIL: info@waldropengineering.com

JEREMY M. LANGLO, P.E.
FLORIDA LICENSE NO. 84267

FLORIDA CERTIFICATE OF AUTHORIZATION #6634

SET NUMBER: 133-59-01

SHEET: 16



SURFACE WATER MANAGEMENT* ⚠ PARAMETERS

DRAINAGE BASIN	DW3	DW4B
CONTROL ELEVATION (FT-NAVD)	18.71	19.21
PEAK 25-YEAR - 3 DAY STORM STAGE (FT-NAVD)	21.51	21.81
PEAK 100-YEAR - 3 DAY STORM STAGE (FT-NAVD)	22.21	22.31
FEMA ELEVATION (FT-NAVD)	21.01	21.01
MIN. ROAD CENTER LINE ELEVATION (FT-NAVD)	21.51	22.21
MIN. FINISHED FLOOR ELEVATION (FT-NAVD)	22.21	22.31
MIN. PERIMETER BERM ELEVATION (FT-NAVD)	21.51	21.81

* SURFACE WATER MANAGEMENT PARAMETERS APPROVED BY THE SFWMD UNDER ERP #11-02336-P (APPLICATION #190830-7) ISSUED ON SEPTEMBER 26, 2019.

VERTICAL ELEVATIONS BASED ON: NAVD-88

WALDROP ENGINEERING
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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

MASTER DRAINAGE PLAN

PLAN REVISIONS

⚠1	03/01/17	REVISED PER COLLIER COUNTY AND AMUC COMMENTS
⚠2	10/18/19	REVISED PER ENGINEER AND CLIENT
⚠3		

REV00 <<SUBMITTED / BID SET>> 01/13/17

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SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 17

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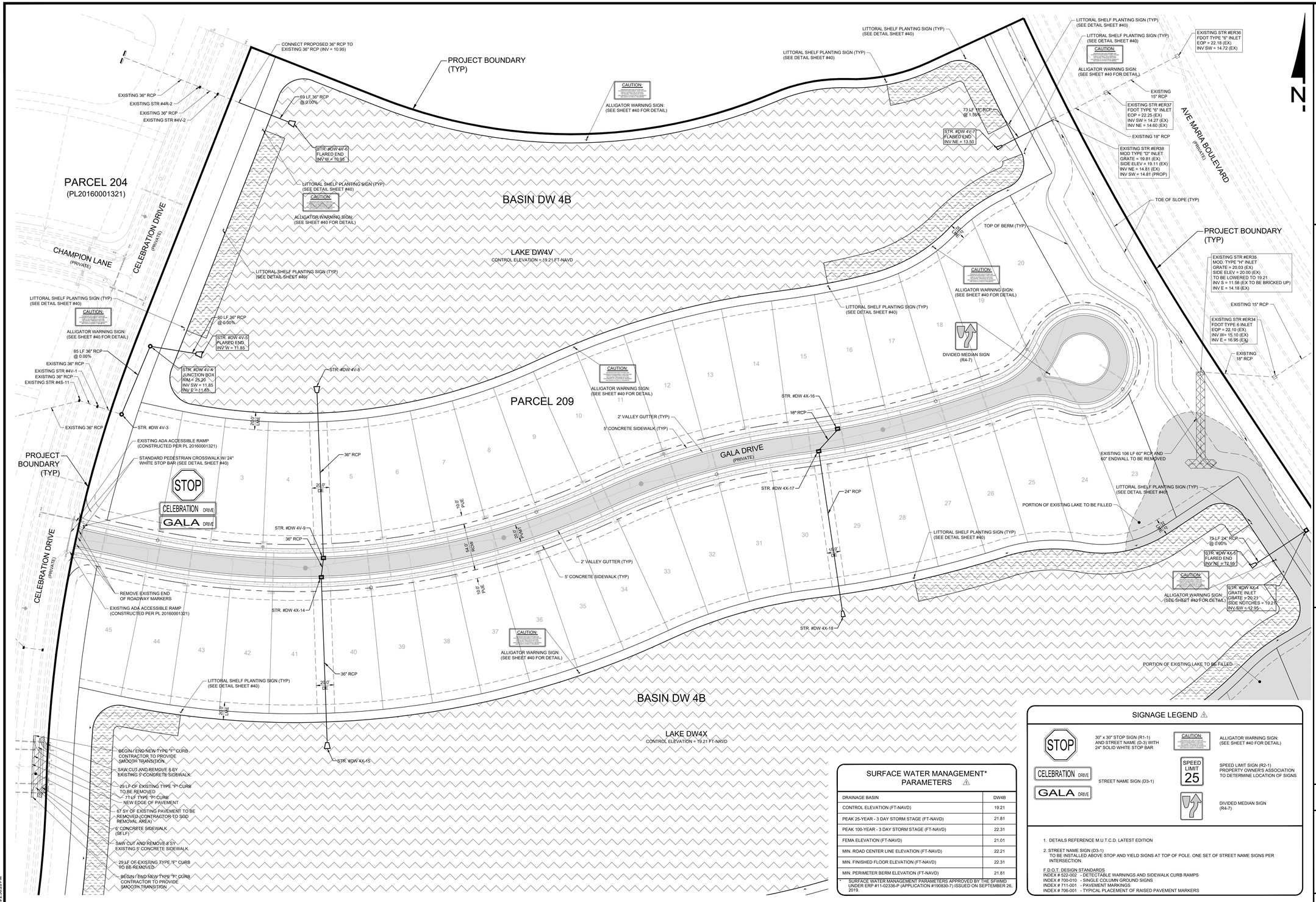

SURFACE WATER MANAGEMENT* PARAMETERS ⚠

DRAINAGE BASIN	DW4B
CONTROL ELEVATION (FT-NAVD)	19.21
PEAK 25-YEAR - 3 DAY STORM STAGE (FT-NAVD)	21.81
PEAK 100-YEAR - 3 DAY STORM STAGE (FT-NAVD)	22.31
FEMA ELEVATION (FT-NAVD)	21.01
MIN. ROAD CENTER LINE ELEVATION (FT-NAVD)	22.21
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MIN. PERIMETER BERM ELEVATION (FT-NAVD)	21.81

* SURFACE WATER MANAGEMENT PARAMETERS APPROVED BY THE SFWMD UNDER ERP #11-02336-P (APPLICATION #190830-7) ISSUED ON SEPTEMBER 26, 2019.

SIGNAGE LEGEND ⚠

- STOP — 30" x 30" STOP SIGN (R1-1) AND STREET NAME (D-3) WITH 24" SOLID WHITE STOP BAR
- CAUTION: — ALLIGATOR WARNING SIGN: (SEE SHEET #40 FOR DETAIL)
- CELEBRATION DRIVE / GALA DRIVE — STREET NAME SIGN (D3-1)
- SPEED LIMIT 25 — SPEED LIMIT SIGN (R2-1) PROPERTY OWNER'S ASSOCIATION TO DETERMINE LOCATION OF SIGNS
- DIVIDED MEDIAN SIGN (R4-7)

1. DETAILS REFERENCE M.U.T.C.D. LATEST EDITION
2. STREET NAME SIGN (D3-1) TO BE INSTALLED ABOVE STOP AND YIELD SIGNS AT TOP OF POLE. ONE SET OF STREET NAME SIGNS PER INTERSECTION.

F.D.O.T. DESIGN STANDARDS
INDEX # 522-002 - DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS
INDEX # 700-010 - SINGLE COLUMN GROUND SIGNS
INDEX # 711-001 - PAVEMENT MARKINGS
INDEX # 706-001 - TYPICAL PLACEMENT OF RAISED PAVEMENT MARKERS

VERTICAL ELEVATIONS BASED ON: NAVD-88

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

MASTER DRAINAGE , PAVING AND SIGNAGE PLAN - GALA DRIVE

PLAN REVISIONS		
REV00 <<SUBMITTED; BID SET>>	01/13/17	
1 REVISED PER COLLIER COUNTY AND AM/JC COMMENTS	08/01/17	
2 REVISED PER ENGINEER AND CLIENT	10/18/19	

0 25 50 100
SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 18

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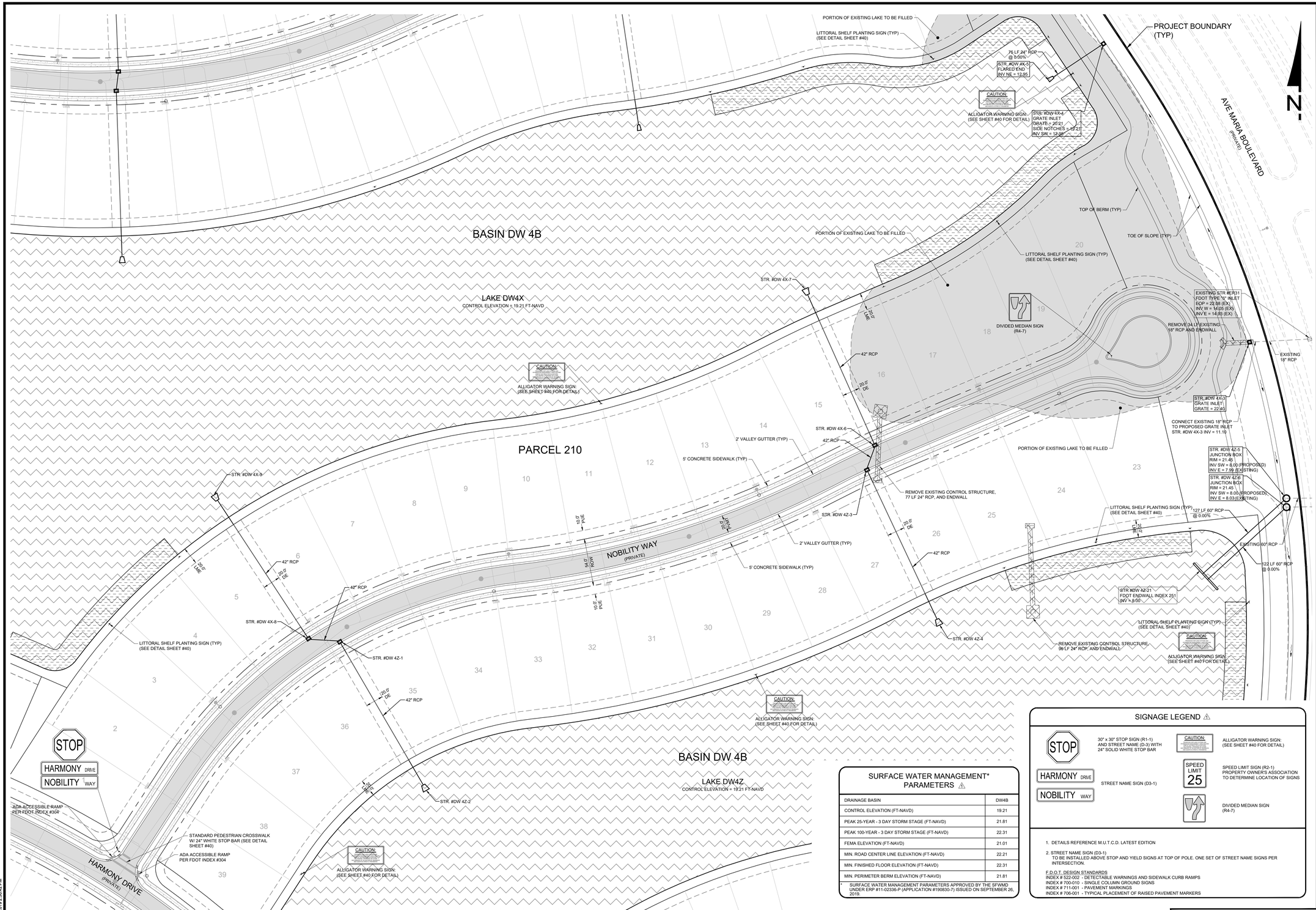

SURFACE WATER MANAGEMENT* PARAMETERS ⚠

DRAINAGE BASIN	DW4B
CONTROL ELEVATION (FT-NAVD)	19.21
PEAK 25-YEAR - 3 DAY STORM STAGE (FT-NAVD)	21.81
PEAK 100-YEAR - 3 DAY STORM STAGE (FT-NAVD)	22.31
FEMA ELEVATION (FT-NAVD)	21.01
MIN. ROAD CENTER LINE ELEVATION (FT-NAVD)	22.21
MIN. FINISHED FLOOR ELEVATION (FT-NAVD)	22.31
MIN. PERIMETER BERM ELEVATION (FT-NAVD)	21.81

* SURFACE WATER MANAGEMENT PARAMETERS APPROVED BY THE SFWMD UNDER ERP #11-02336-P (APPLICATION #190830-7) ISSUED ON SEPTEMBER 26, 2019.

SIGNAGE LEGEND ⚠

STOP — 30" x 30" STOP SIGN (R1-1) AND STREET NAME (D-3) WITH 24" SOLID WHITE STOP BAR	CAUTION — ALLIGATOR WARNING SIGN: (SEE SHEET #40 FOR DETAIL)
HARMONY DRIVE / NOBILITY WAY — STREET NAME SIGN (D3-1)	SPEED LIMIT 25 — SPEED LIMIT SIGN (R2-1) PROPERTY OWNER'S ASSOCIATION TO DETERMINE LOCATION OF SIGNS
	DIVIDED MEDIAN SIGN (R4-7)

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VERTICAL ELEVATIONS BASED ON: NAVD-88

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

MASTER DRAINAGE , PAVING AND SIGNAGE PLAN - NOBILITY WAY

PLAN REVISIONS

1	08/01/17	REVISED PER COLLIER COUNTY AND AMEC COMMENTS
2	10/18/19	REVISED PER ENGINEER AND CLIENT

REV#0 <<SUBMITTED / BID SET>> 01/13/17

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SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 19

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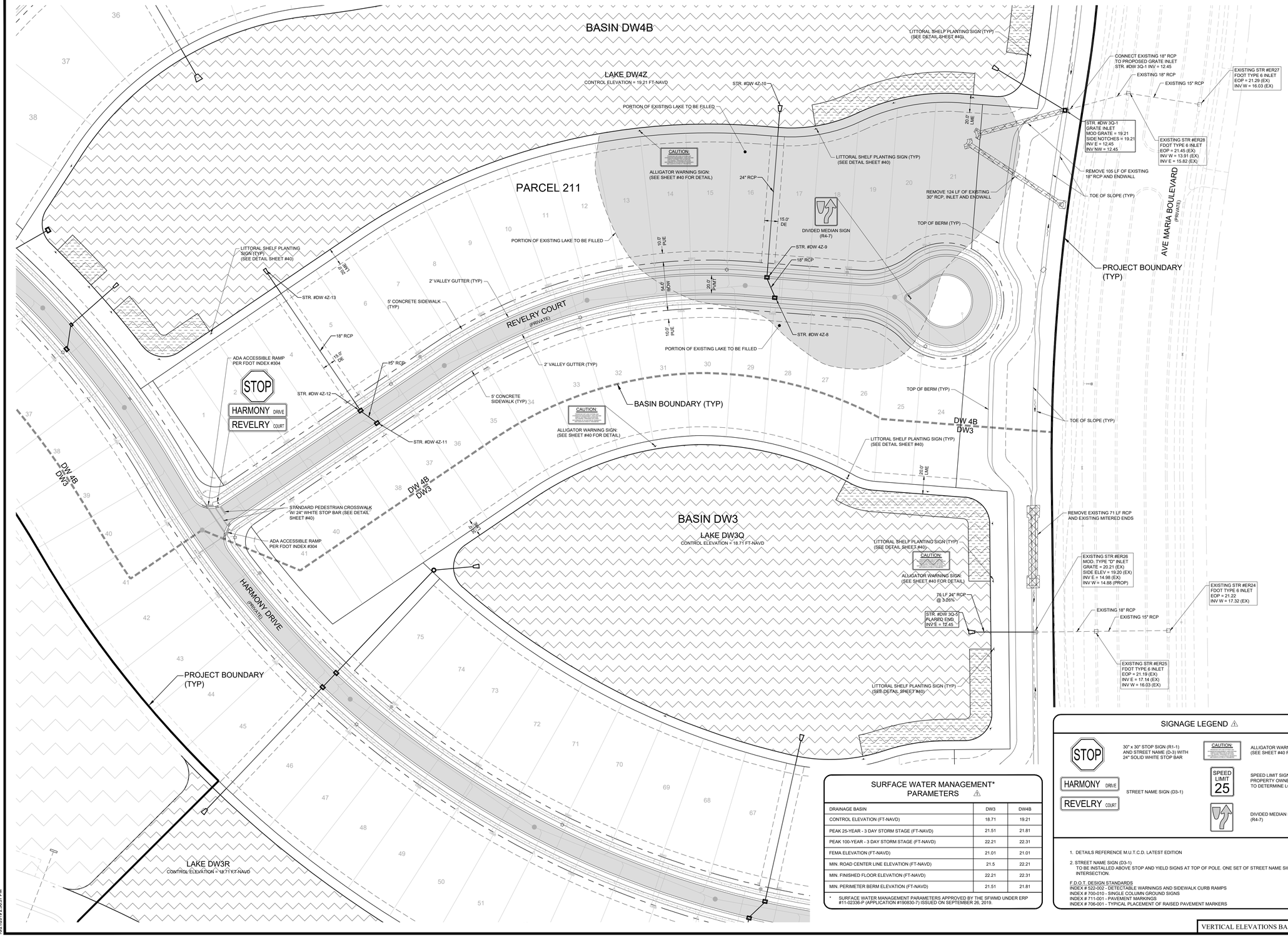

SURFACE WATER MANAGEMENT* PARAMETERS ⚠

DRAINAGE BASIN	DW3	DW4B
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PEAK 100-YEAR - 3 DAY STORM STAGE (FT-NAVD)	22.21	22.31
FEMA ELEVATION (FT-NAVD)	21.01	21.01
MIN. ROAD CENTER LINE ELEVATION (FT-NAVD)	21.5	22.21
MIN. FINISHED FLOOR ELEVATION (FT-NAVD)	22.21	22.31
MIN. PERIMETER BERM ELEVATION (FT-NAVD)	21.51	21.81

* SURFACE WATER MANAGEMENT PARAMETERS APPROVED BY THE SFWMD UNDER ERP #11-02336-P (APPLICATION #190830-7) ISSUED ON SEPTEMBER 26, 2019.

SIGNAGE LEGEND ⚠

- STOP — 30" x 30" STOP SIGN (R1-1) AND STREET NAME (D-3) WITH 24" SOLID WHITE STOP BAR
- CAUTION: — ALLIGATOR WARNING SIGN: (SEE SHEET #40 FOR DETAIL)
- HARMONY DRIVE / REVELRY COURT — STREET NAME SIGN (D3-1)
- SPEED LIMIT 25 — SPEED LIMIT SIGN (R2-1) PROPERTY OWNER'S ASSOCIATION TO DETERMINE LOCATION OF SIGNS
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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

MASTER DRAINAGE , PAVING AND SIGNAGE PLAN - REVELRY COURT

PLAN REVISIONS		
1	09/01/17	REVISED PER COLLIER COUNTY AND AM/C COMMENTS
2	10/18/19	REVISED PER ENGINEER AND CLIENT

REVIS <<SUBMITTED / BID SET>> 01/13/17

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FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 20

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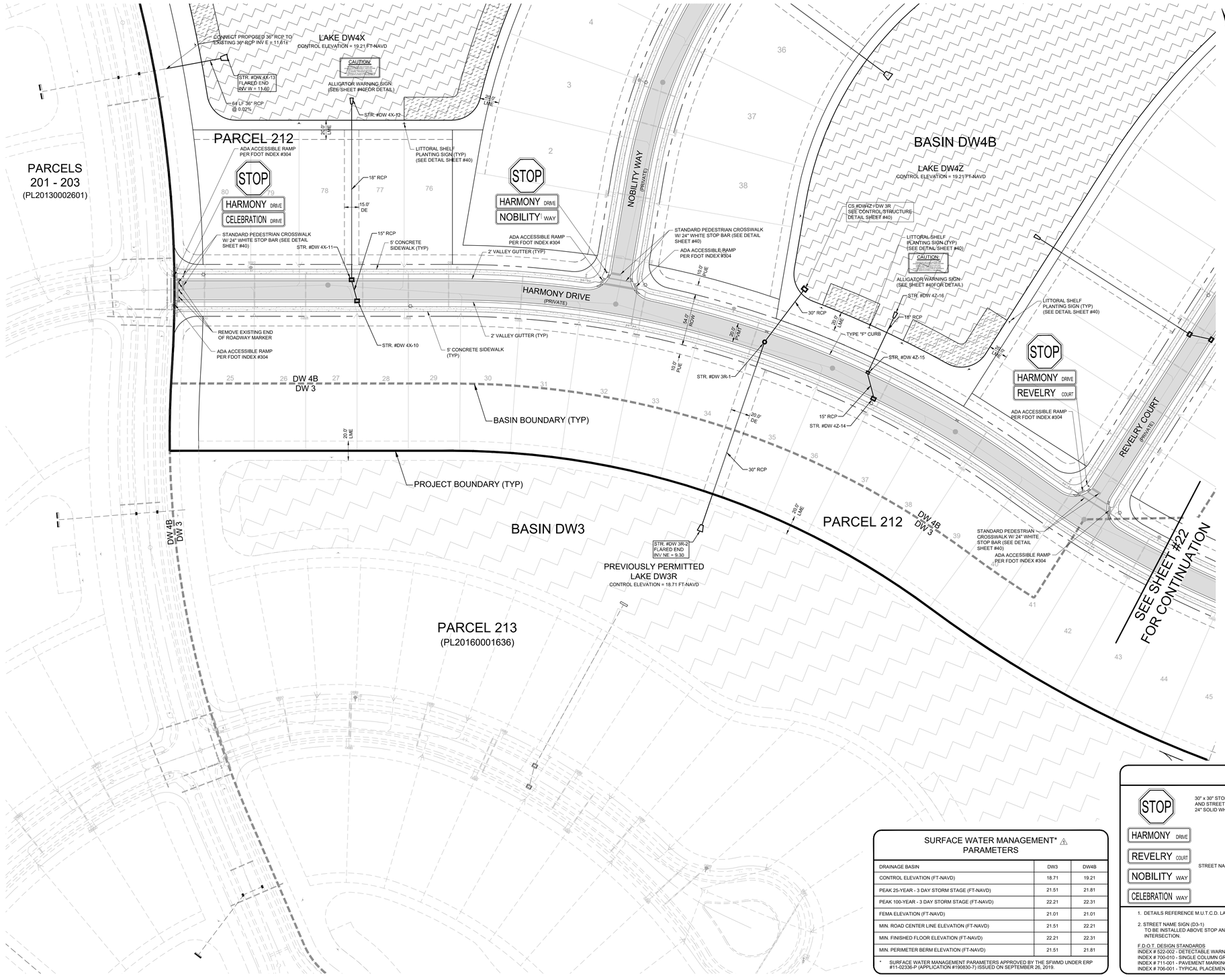

SURFACE WATER MANAGEMENT* PARAMETERS

DRAINAGE BASIN	DW3	DW4B
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* SURFACE WATER MANAGEMENT PARAMETERS APPROVED BY THE SFWMD UNDER ERP #11-02336-P (APPLICATION #190830-7) ISSUED ON SEPTEMBER 26, 2019.

SIGNAGE LEGEND

- 30" x 30" STOP SIGN (R1-1) AND STREET NAME (D-3) WITH 24" SOLID WHITE STOP BAR
- ALLIGATOR WARNING SIGN: (SEE SHEET #40 FOR DETAIL)
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VERTICAL ELEVATIONS BASED ON: NAVD-88

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

MASTER DRAINAGE , PAVING AND SIGNAGE PLAN - HARMONY DRIVE (A)

PLAN REVISIONS	REV.00 <<SUBMITTED / BID SET>> 01/13/17
03/01/17	REVISED PER COLLIER COUNTY AND AMEC COMMENTS
10/18/19	REVISED PER ENGINEER AND CLIENT

0 25 50 100
SCALE IN FEET

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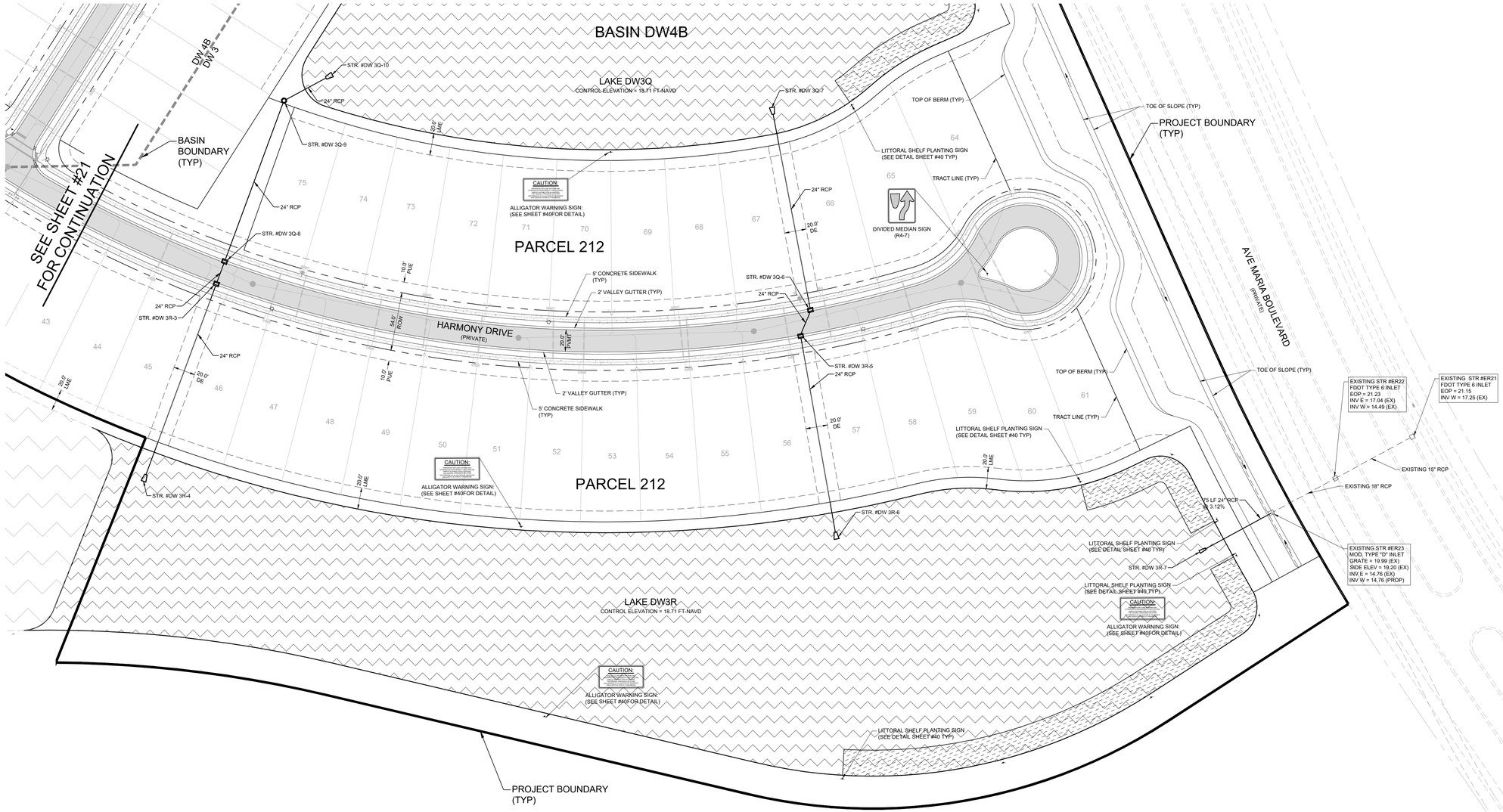

SURFACE WATER MANAGEMENT* PARAMETERS

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* SURFACE WATER MANAGEMENT PARAMETERS APPROVED BY THE SFWMD UNDER ERP #11-02336-P (APPLICATION #190830-7) ISSUED ON SEPTEMBER 26, 2019.

SIGNAGE LEGEND

- STOP — 30" x 30" STOP SIGN (R1-1) AND STREET NAME (D-3) WITH 24" SOLID WHITE STOP BAR
- HARMONY DRIVE / DEL WEBB WAY — STREET NAME SIGN (D3-1)
- CAUTION: ALLIGATOR WARNING SIGN: (SEE SHEET #40 FOR DETAIL)
- SPEED LIMIT 25 — SPEED LIMIT SIGN (R2-1) PROPERTY OWNER'S ASSOCIATION TO DETERMINE LOCATION OF SIGNS
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VERTICAL ELEVATIONS BASED ON: NAVD-88

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

MASTER DRAINAGE , PAVING AND SIGNAGE PLAN - HARMONY DRIVE (B)

PLAN REVISIONS — REV00 <<SUBMITTED / BID SET>> 01/13/17

1	03/01/17	REVISED PER COLLIER COUNTY AND AMEC COMMENTS
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LAKE EXCAVATION CHART

LAKE	CONTROL ELEVATION (FT - NAVD)	SURFACE AREA AT CONTROL	LOW WATER ELEVATION (FT - NAVD)	BREAK POINT ELEVATION (FT- NAVD)	BOTTOM ELEVATION (FT - NAVD)	PROPOSED LAKE EXCAVATION VOLUME AT 20' DEPTH FROM C.E.
DW4V	19.21	5.34	16.21	13.21	(-) 0.81	133,206
DW4X	19.21	10.37	16.21	13.21	(-) 0.81	276,286
DW4Z	19.21	6.57	16.21	13.21	(-) 0.81	119,700
DW3Q	18.71	3.54	15.71	12.71	(-) 1.31	89,473
DW3R	18.71	4.73	15.71	12.71	(-) 1.31	113,359
TOTAL		30.55				732,024

LITTORAL PLANTING AREA MATERIALS LIST

ZONE 1 SPECIES (CONTROL - 0.5' DEPTH)

HERBACEOUS SPECIES
CORDGRASS (Spartina bakerii)
SWAMP LILY (Crinum americanum)

TREE AND SHRUB SPECIES
CYPRESS (Taxodium distichum)
RED MAPLE (Acer rubrum)

ZONE 2 SPECIES (0.5 - 3.0' DEPTH)

HERBACEOUS SPECIES
ARROWHEADS (Sagittaria ssp.)
PICKERELWEED (Pontederia cordata)
SPIKE RUSH (Eleocharis spp.)

LITTORAL PLANTING CALCULATIONS

LAKE	CONTROL ELEVATION (FT - NAVD)	SURFACE AREA AT CONTROL	LITTORAL PLANTING AREA REQUIRED	TOTAL PLANTING AREA PROVIDED
DW4V	19.21	5.34 AC 232,610 SF	16,283 SF	16,283 SF
DW4X	19.21	10.37 AC 451,906 SF	31,633 SF	33,401 SF
DW4Z	19.21	6.57 AC 286,189 SF	20,033 SF	18,264 SF
DW3Q	18.71	3.54 AC 154,202 SF	10,794 SF	10,798 SF
DW3R	18.71	4.73 AC 206,039 SF	14,423 SF	14,423 SF
		TOTALS	93,166 SF	93,169 SF

1. REQUIRED LITTORAL PLANTING AREA IS 7% OF THE TOTAL LAKE SURFACE AREA AT CONTROL ELEVATION.
2. DUE TO CONVERTING (ACRES TO FEET / FEET TO ACRES) AREAS ARE ROUNDED TO APPROXIMATE NUMBERS.

NOTES

A MINIMUM OF 3 DIFFERENT NATIVE PLANS SPECIES MUST BE PROVIDED, WITH AT LEAST ONE BEING HERBACEOUS

MINIMUM SIZE/SPACING REQUIREMENTS:

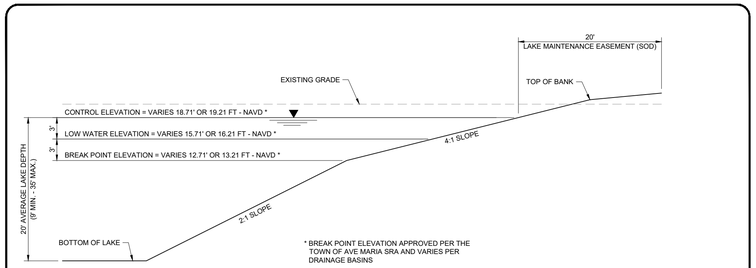
TREES - 3 GALLON (4' HT. MIN.) / 20' O.C. MIN.

SHRUBS - 1 GALLON / 5' O.C. MIN.

HERBACEOUS PLANTS - 12" / 3' O.C. MIN.

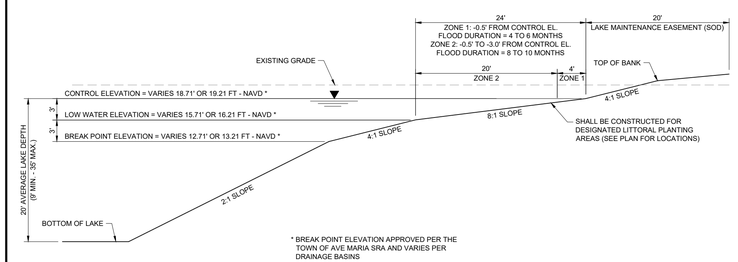
OPERATIONAL REQUIREMENTS: LITTORAL SHELF PLANTING AREAS SHALL BE MAINTAINED ACCORDING TO THE FOLLOWING REQUIREMENTS:

1. EIGHTY PERCENT VEGETATIVE COVERAGE OF THE LSPA IS REQUIRED WITHIN A 2-YEAR PERIOD FOLLOWING THE INITIAL PLANTING AND SHALL BE MAINTAINED IN PERPETUITY. NATIVE PLANTS THAT RECRUIT WITHIN THE LSPA WILL BE COUNTED TOWARDS THIS COVERAGE REQUIREMENT EXCEPT AS REQUIRED PER SECTION 3.05.10 B.2 BELOW. THE LSPA MUST BE KEPT FREE OF REFUSE AND DEBRIS.
2. PROHIBITED EXOTICS AND NUISANCE SPECIES SHALL BE REMOVED AS THEY OCCUR, MANUALLY OR WITH U.S. ENVIRONMENTAL PROTECTION AGENCY APPROVED HERBICIDES. PROHIBITED EXOTICS ARE THOSE SPECIES AS LISTED IN THIS SECTION 3.05.08. FOR THE PURPOSE OF THIS SECTION, NUISANCE SPECIES INCLUDE THOSE SPECIES LISTED AS CLASS I AND CLASS II PROHIBITED AQUATIC PLANTS SPECIFIED IN CHAPTER 62C-52.011, FLORIDA ADMINISTRATIVE CODE. CATTAILS SHALL BE REMOVED MANUALLY OR WITH U.S. ENVIRONMENTAL PROTECTION AGENCY APPROVED HERBICIDES WHEN THEY EXCEED TEN PERCENT COVERAGE OF THE REQUIRED LSPA AREA.



TYPICAL LAKE SECTION

NTS



TYPICAL LAKE SECTION WITH LITTORAL SHELF PLANTING AREA

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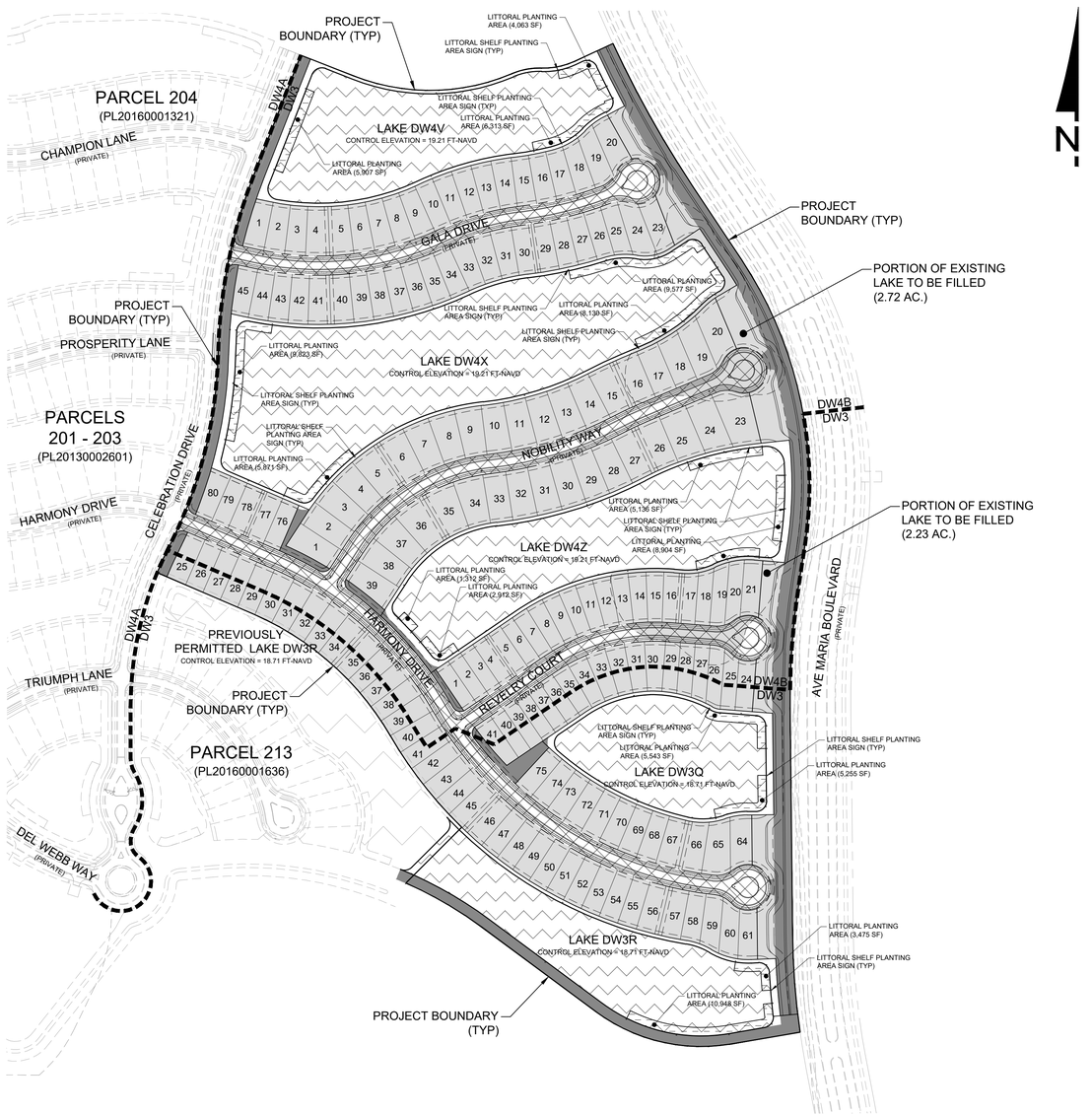

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

LAKE EXCAVATION AND LSPA PLAN

PLAN REVISIONS		REV00 <<SUBMITTED / BID SET>> 01/13/17
A	03/01/17	REVISED PER COLLIER COUNTY AND AMJC COMMENTS
B	10/18/19	REVISED PER ENGINEER AND CLIENT

0 100 200 400
SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 68421

SET NUMBER: 133-59-01

SHEET : 23

VERTICAL ELEVATIONS BASED ON: NAVD-88

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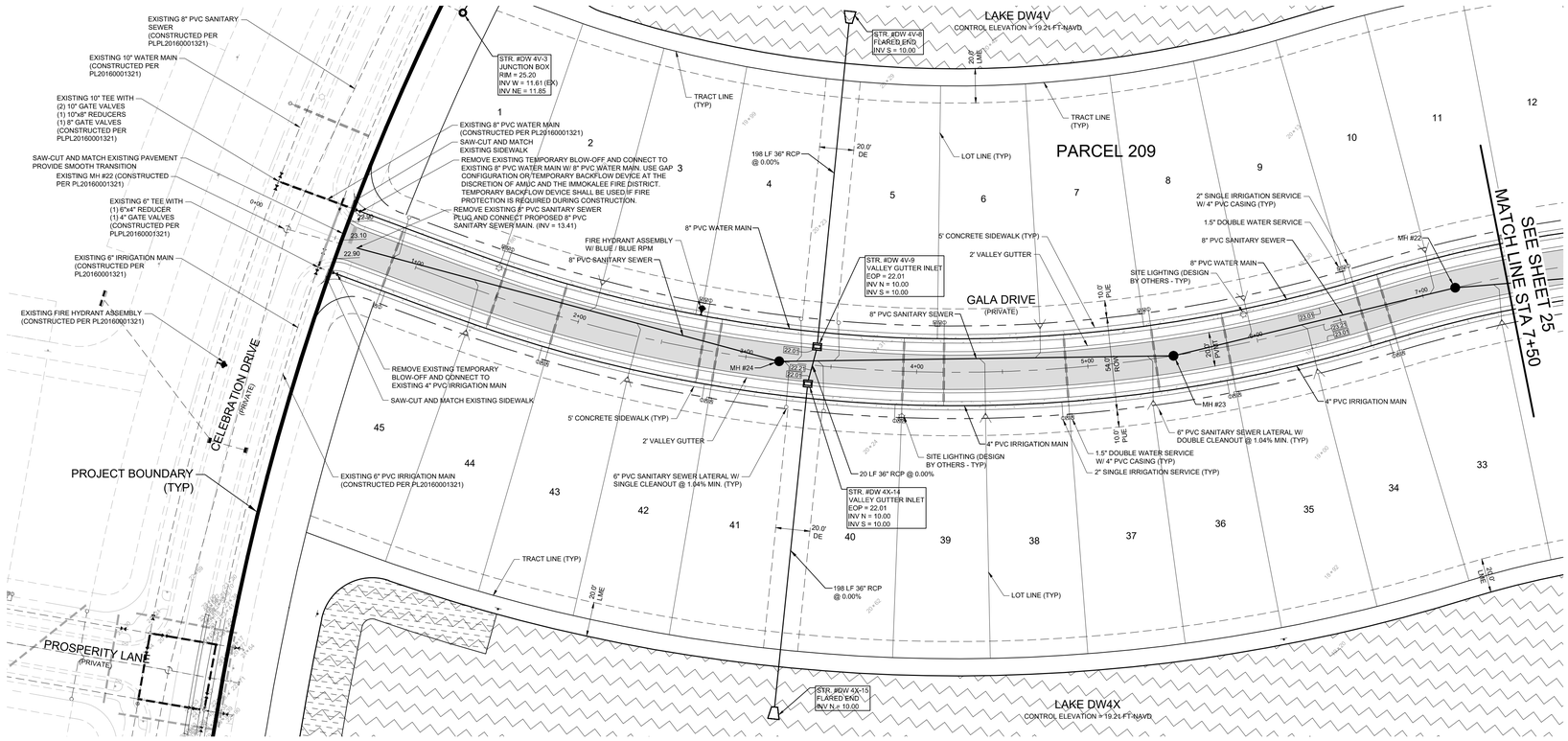

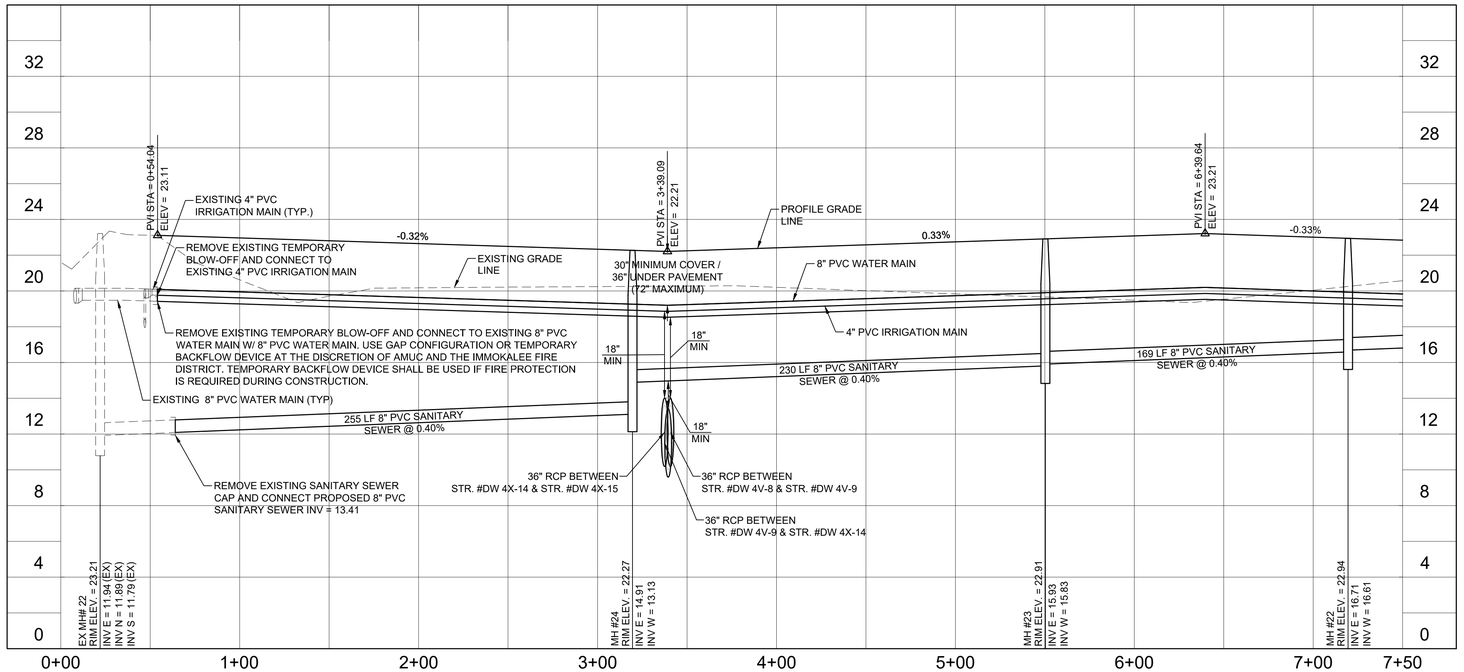

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

PLAN AND PROFILE - GALA DRIVE (STA. 0+00 TO STA. 7+50)

PLAN REVISIONS
- 08/01/17 REVISED PER COLLIER COUNTY AND AMUC COMMENTS
- 10/18/19 REVISED PER ENGINEER AND CLIENT

REV.00 <<SUBMITTED / BID SET>> 01/13/17

0 20 40 80
SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 24

VERTICAL ELEVATIONS BASED ON: NAVD-88

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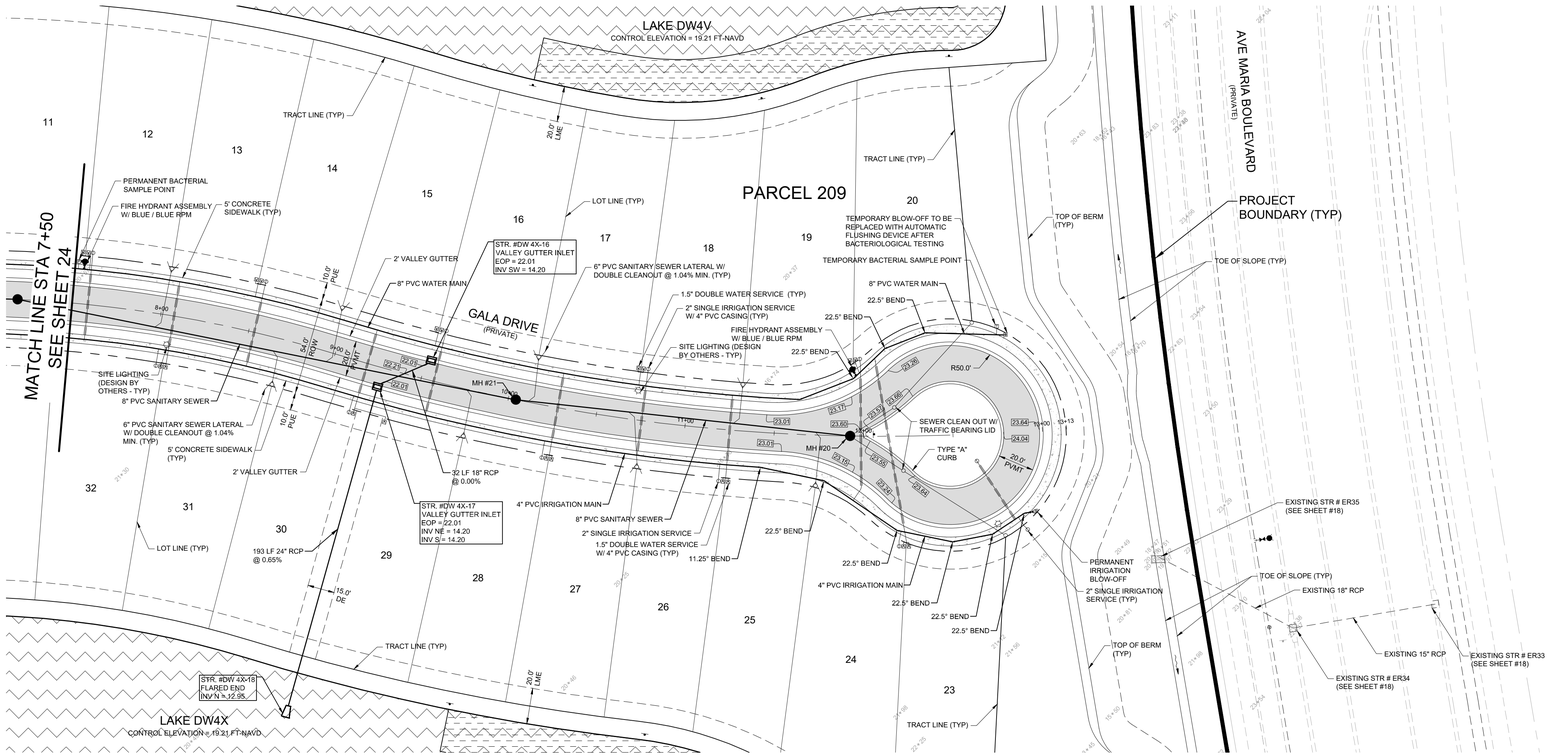

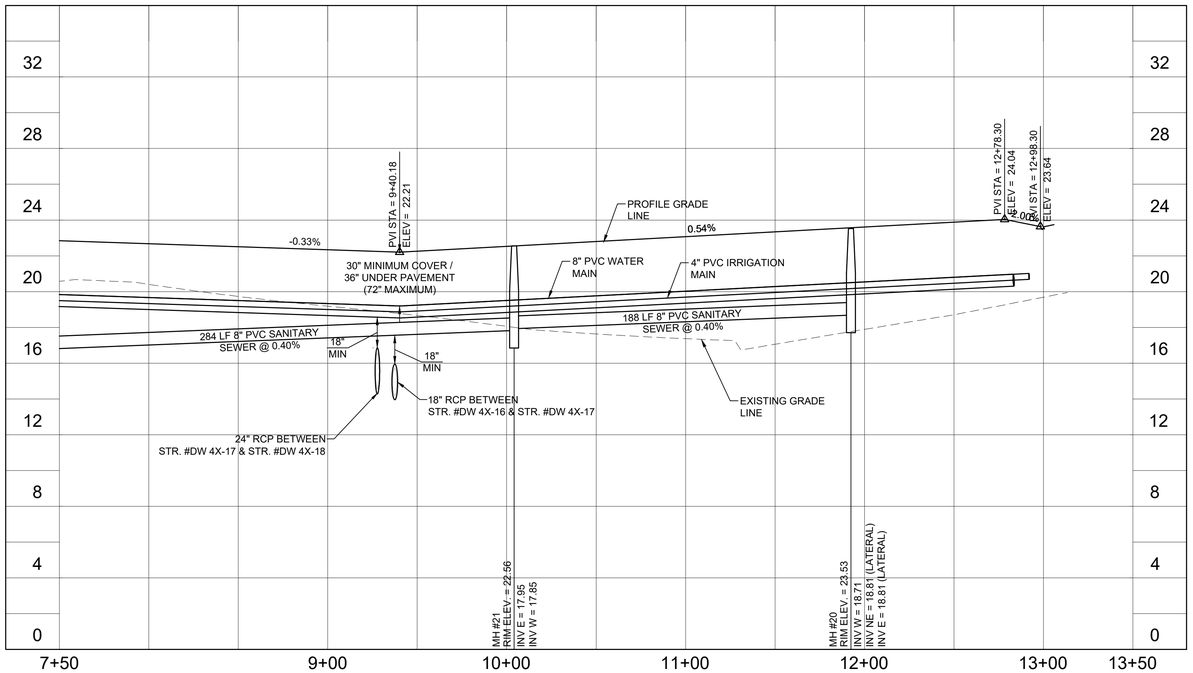

VERTICAL ELEVATIONS BASED ON: NAVD-88

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

PLAN AND PROFILE - GALA DRIVE (STA. 7+50 TO END)

PLAN REVISIONS

1	08/01/17	REVISED PER COLLIER COUNTY AND AM/JC COMMENTS
2	10/18/19	REVISED PER ENGINEER AND CLIENT

REV#3 <<SUBMITTED / BID SET>> 01/13/17

0 20 40 80
SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 25

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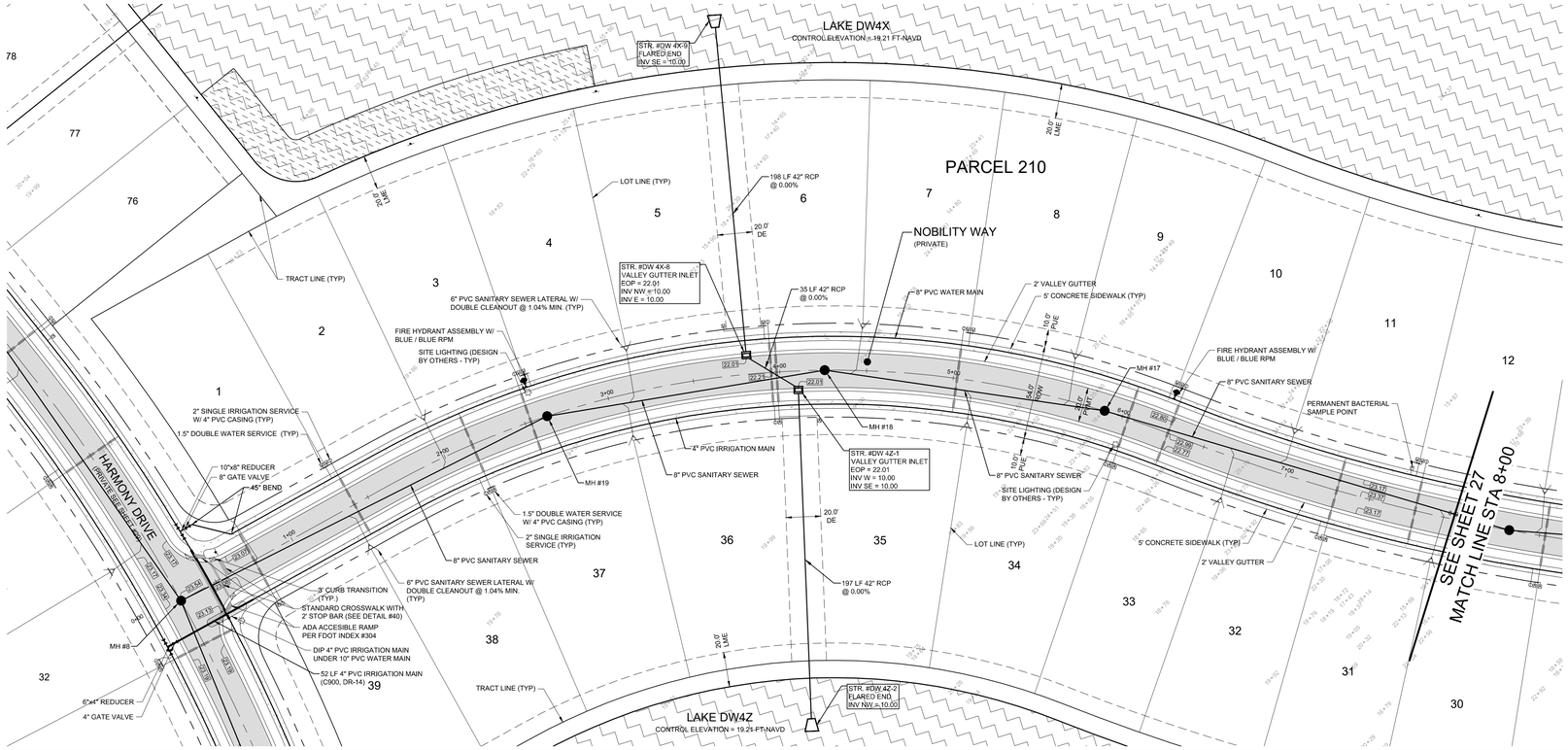

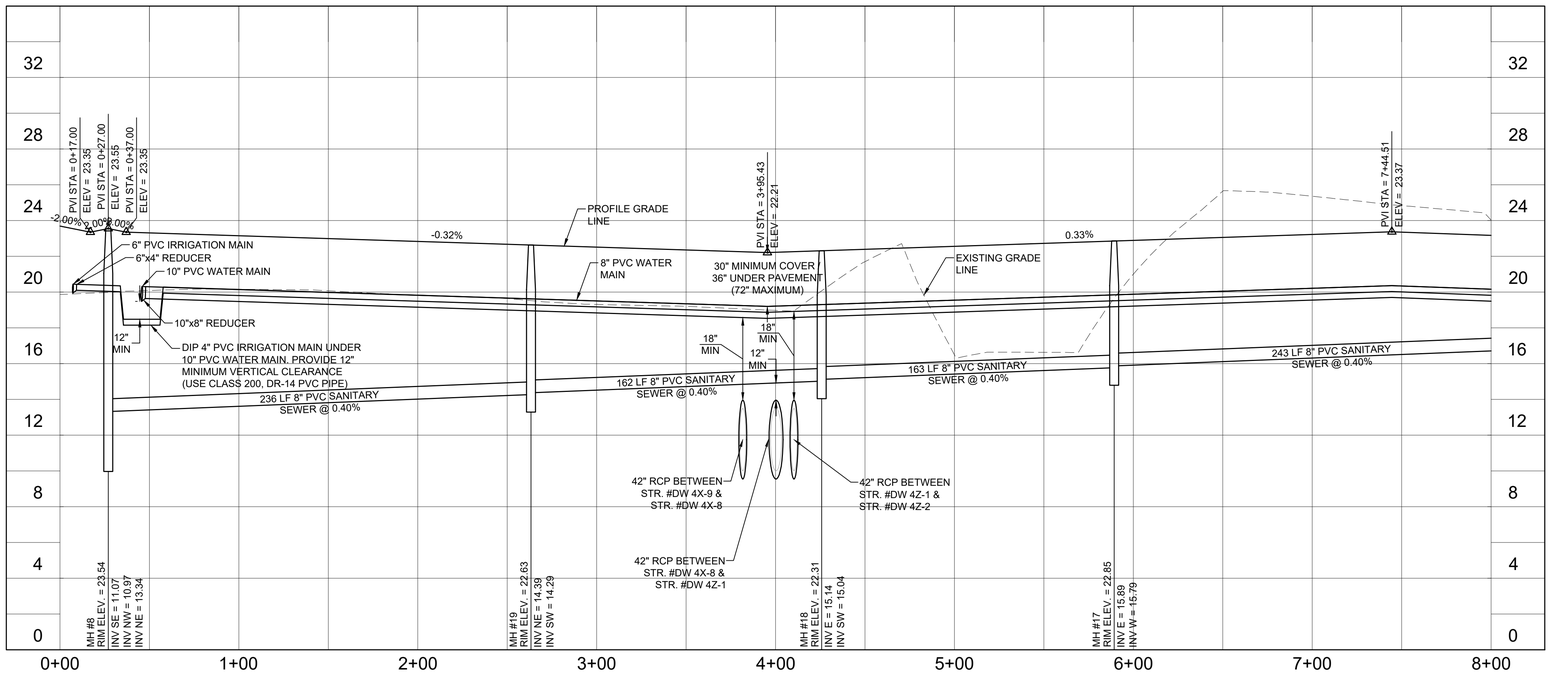

VERTICAL ELEVATIONS BASED ON: NAVD-88

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

PLAN AND PROFILE - NOBILITY WAY (STA. 0+00 TO STA. 8+00)

PLAN REVISIONS

A	03/01/17	REVISED PER COLLIER COUNTY AND AM/JC COMMENTS
B	10/18/19	REVISED PER ENGINEER AND CLIENT

REV00 <<SUBMITTED / BID SET>> 01/13/17

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SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 26

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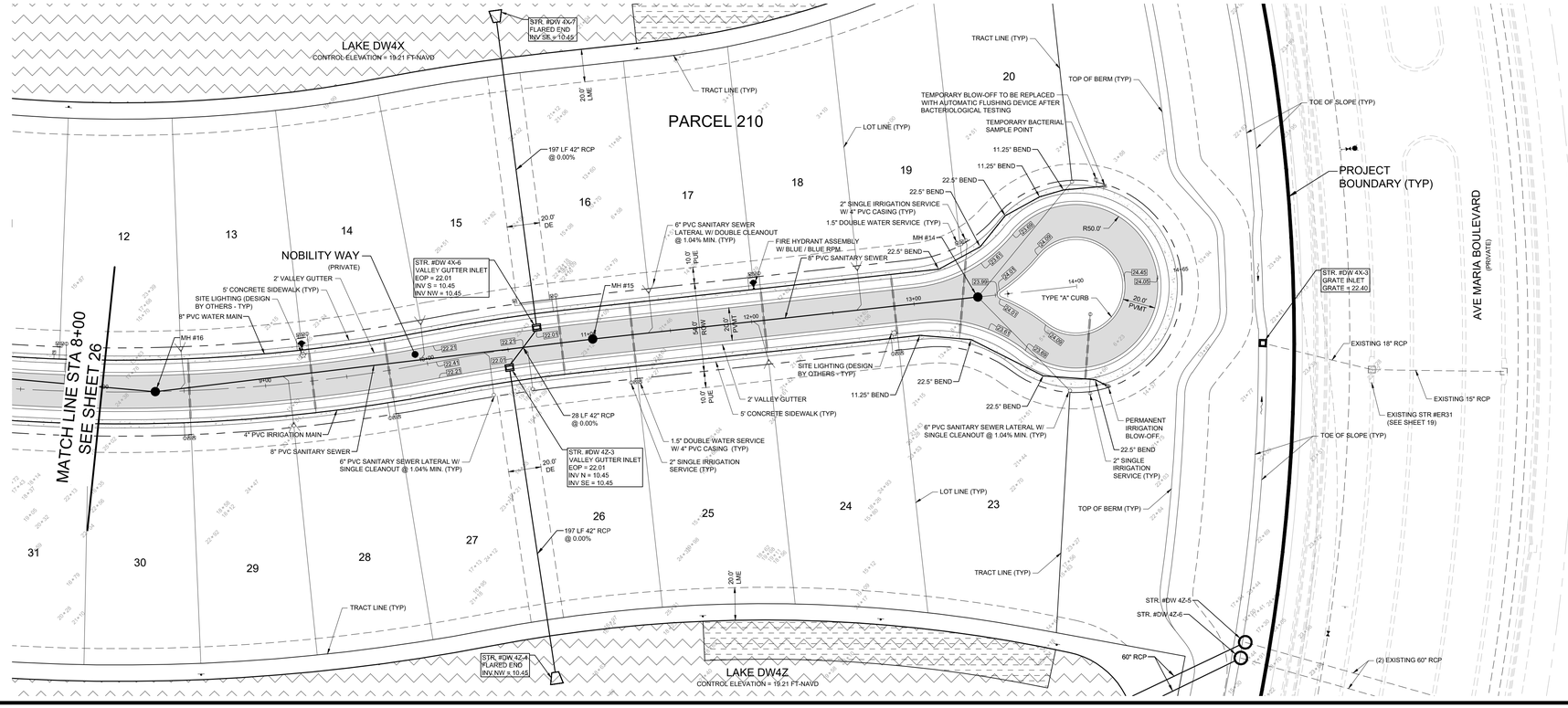

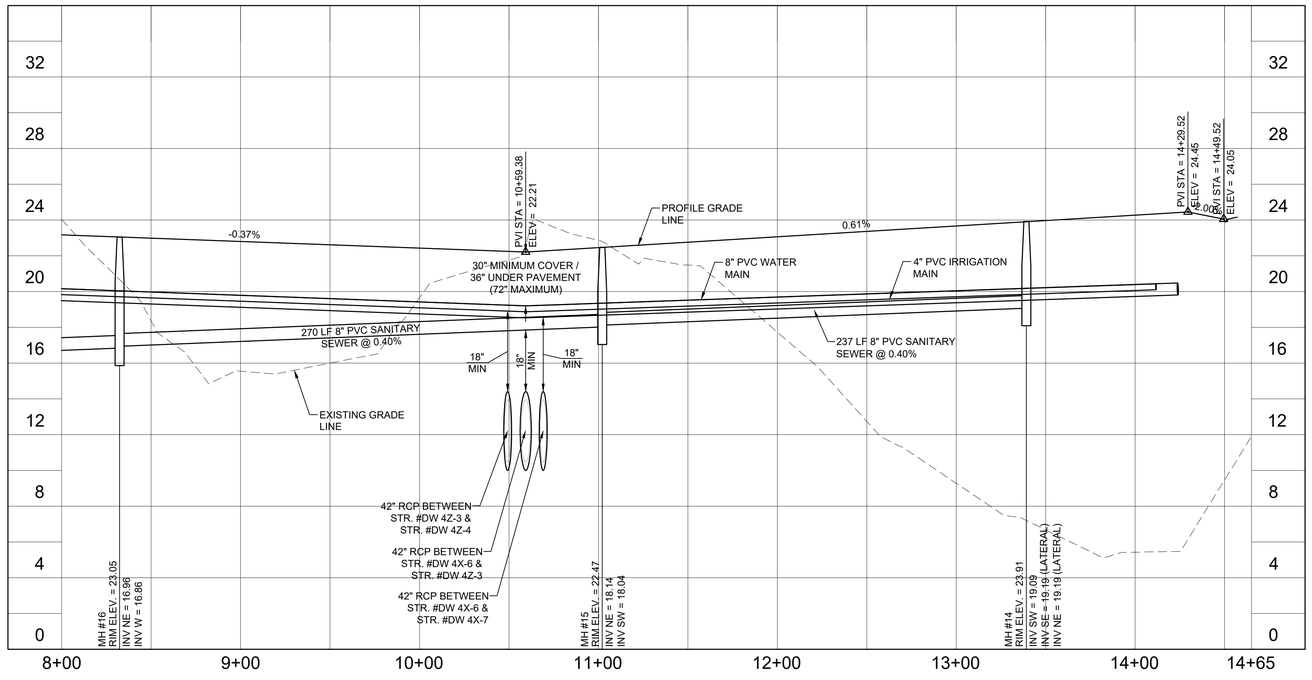

VERTICAL ELEVATIONS BASED ON: NAVD-88

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

PLAN AND PROFILE - NOBILITY WAY (STA. 8+00 TO END)

PLAN REVISIONS — REV00 <<SUBMITTED / BID SET>> 01/13/17

1.	03/01/17	REVISED PER COLLIER COUNTY AND AMUC COMMENTS
2.	10/18/19	REVISED PER ENGINEER AND CLIENT

0 20 40 80
SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 27

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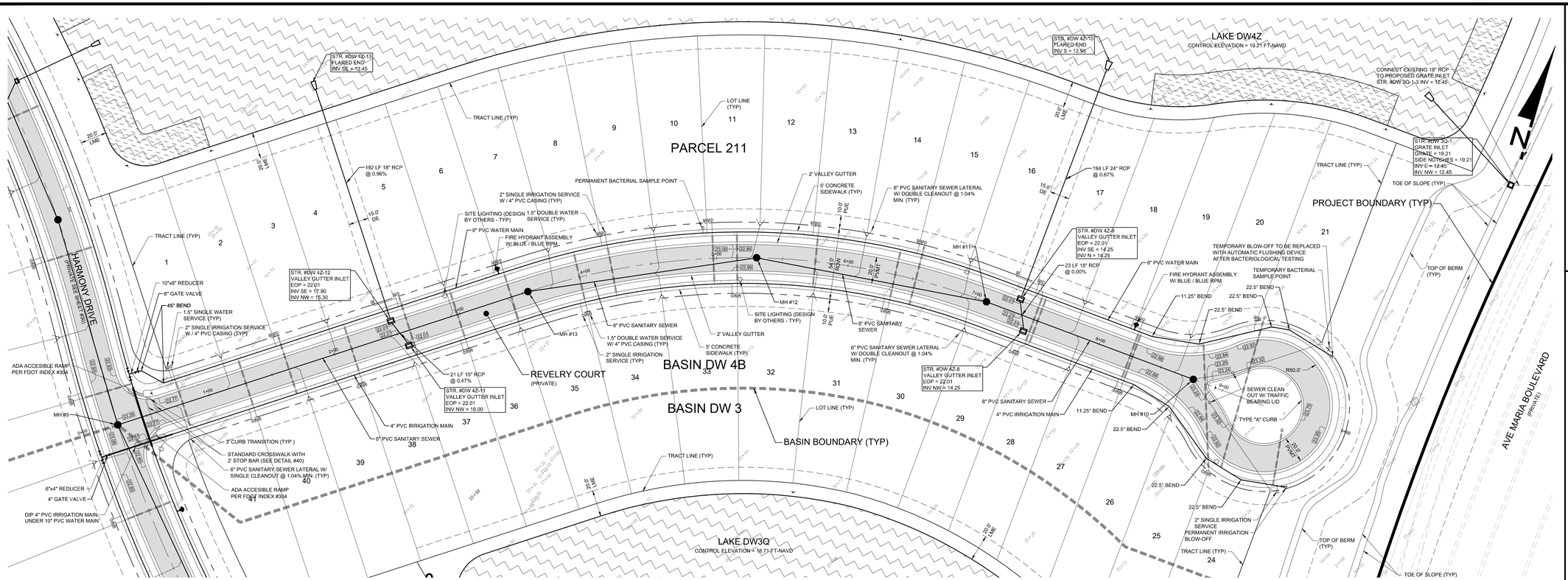

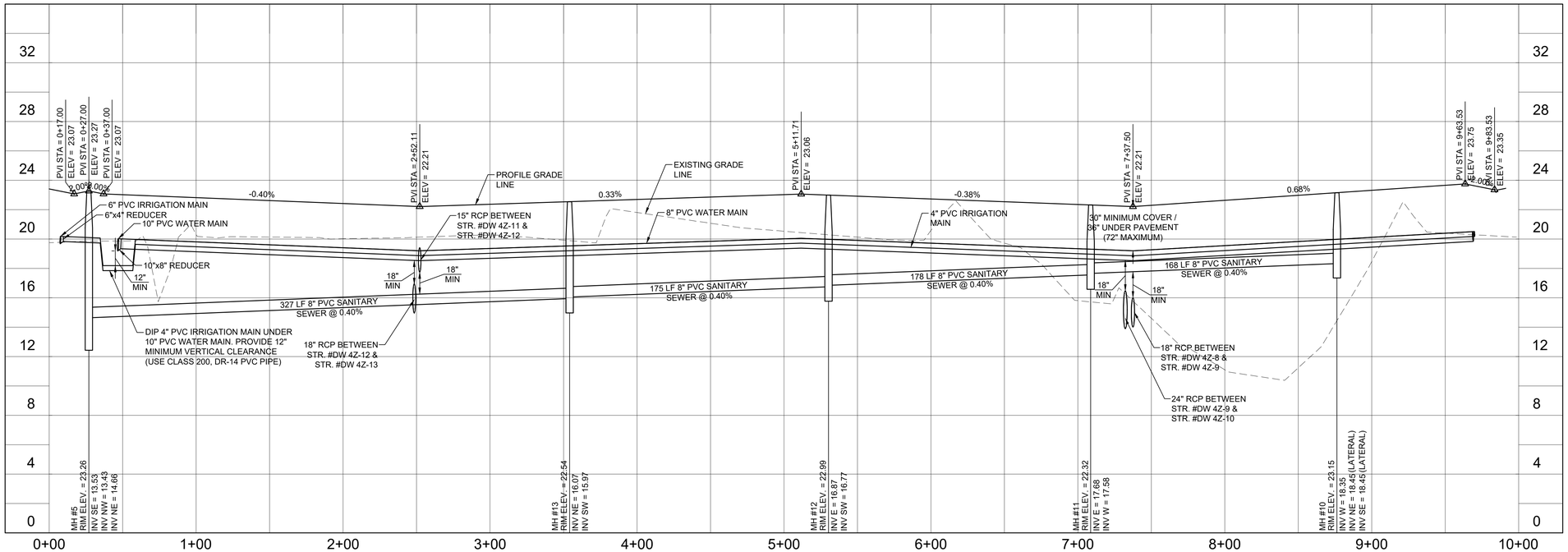

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

PLAN AND PROFILE - REVELRY COURT (STA. 0+00 TO STA. END)

PLAN REVISIONS

1	03/01/17	REVISED PER COLLIER COUNTY AND AMEC COMMENTS
2	10/18/19	REVISED PER ENGINEER AND CLIENT
3		

REV00 <<SUBMITTED / BID SET>> 01/13/17

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SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 28

VERTICAL ELEVATIONS BASED ON: NAVD-88

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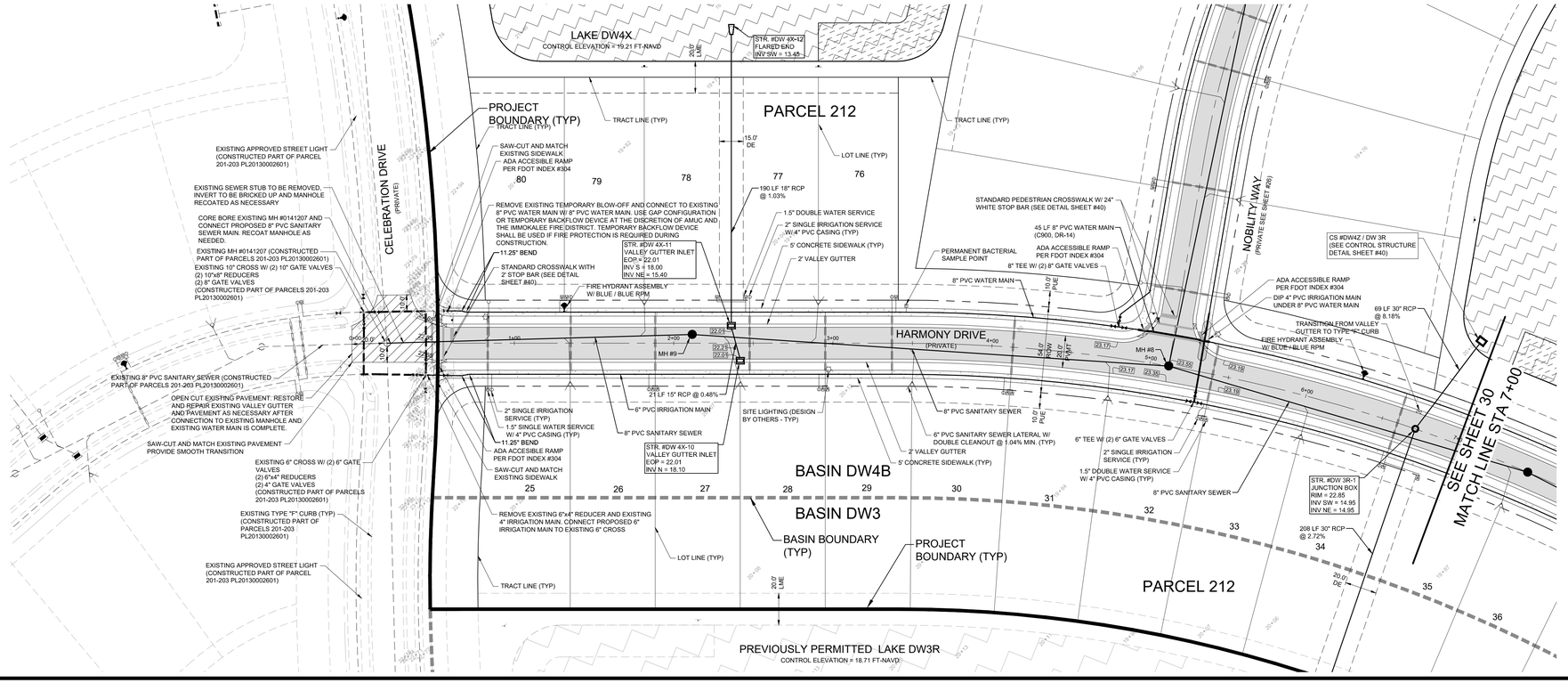

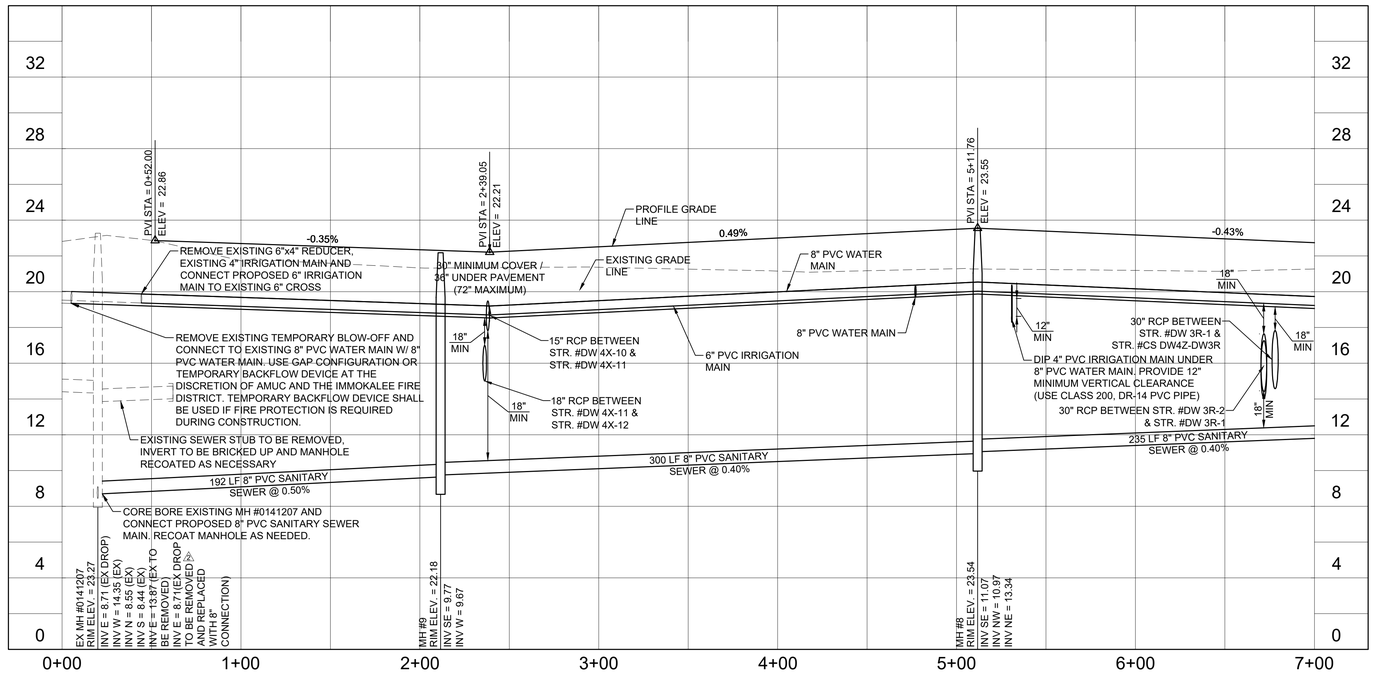

VERTICAL ELEVATIONS BASED ON: NAVD-88

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

PLAN AND PROFILE - HARMONY DRIVE (STA. 0+00 TO STA. 7+00)

PLAN REVISIONS	REV00 <<SUBMITTED / BID SET>> 01/13/17
1 03/01/17	REVISED PER COLLIER COUNTY AND AMUC COMMENTS
2 05/23/18	BID SET
3 10/18/19	REVISED PER ENGINEER AND CLIENT

0 20 40 80
SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 29

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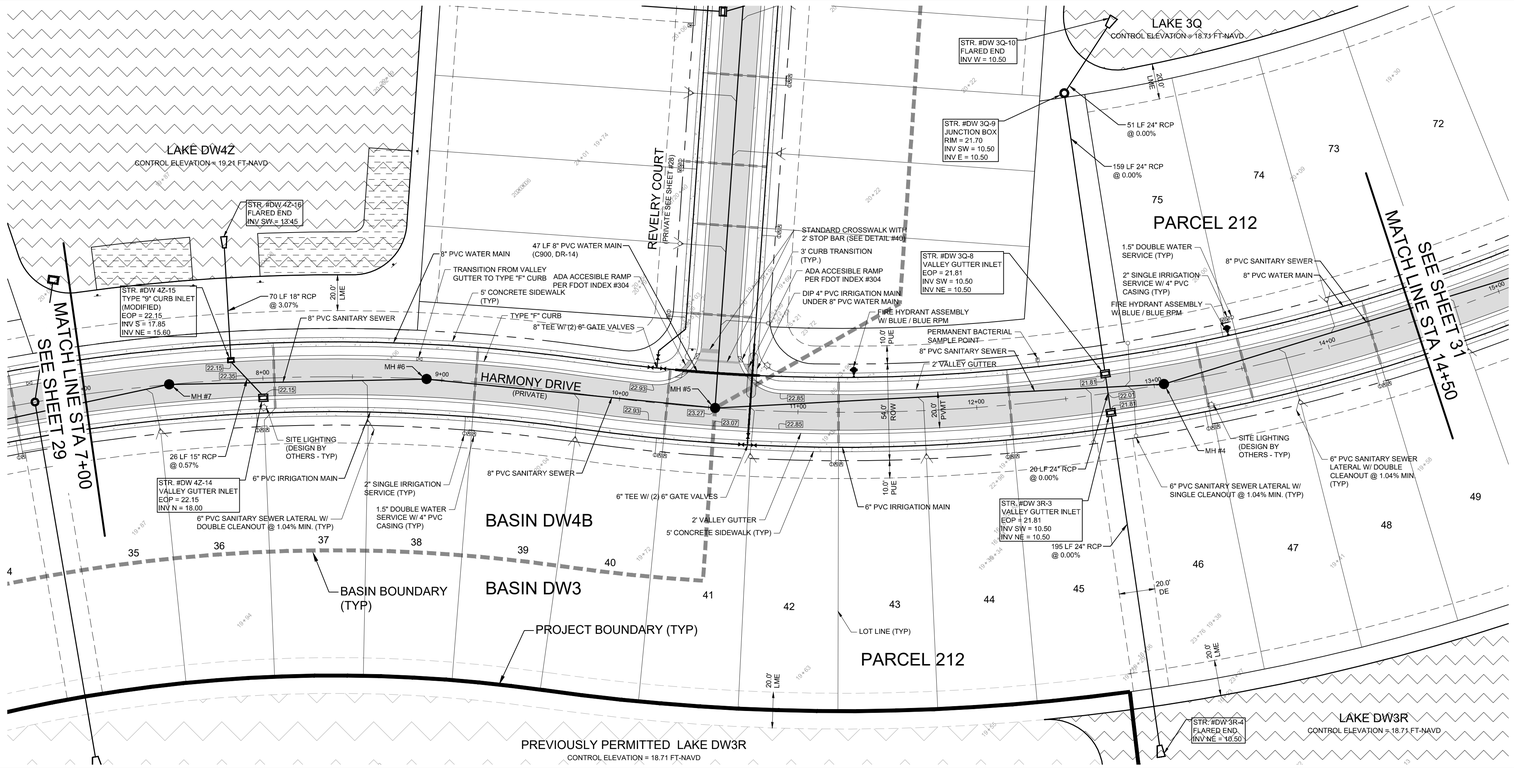

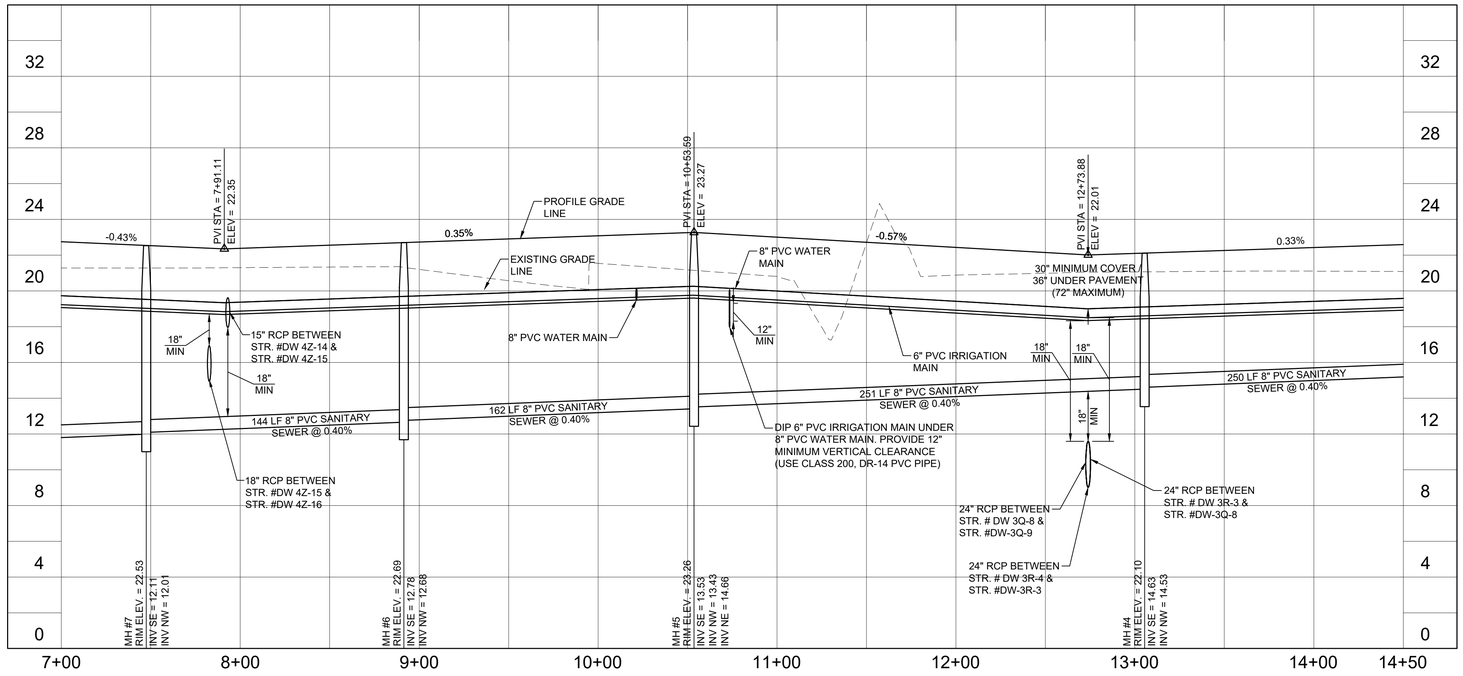

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

PLAN AND PROFILE - HARMONY DRIVE (STA. 7+00 TO STA. 14+50)

PLAN REVISIONS

1	03/01/17	REVISED PER COLLIER COUNTY AND AM/C COMMENTS
2	10/18/19	REVISED PER ENGINEER AND CLIENT

REV#3 <<SUBMITTED / BID SET>> 01/13/17

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SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 30

VERTICAL ELEVATIONS BASED ON: NAVD-88

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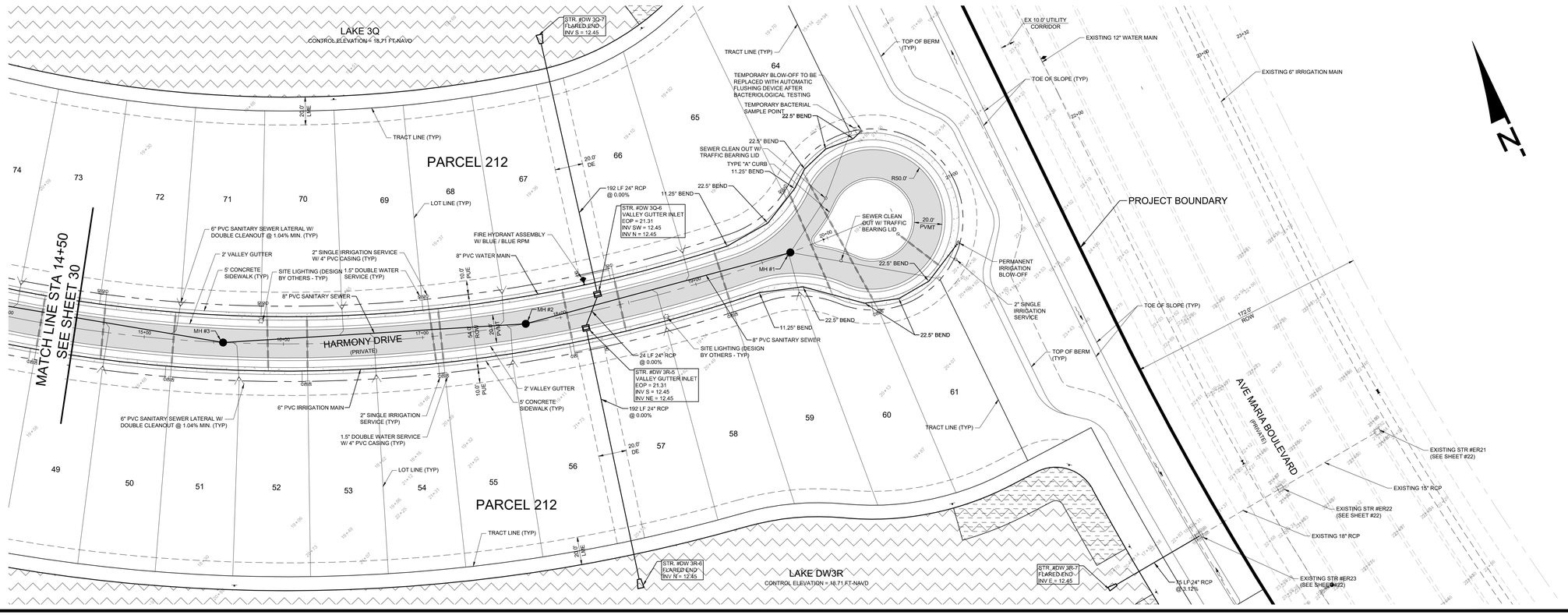

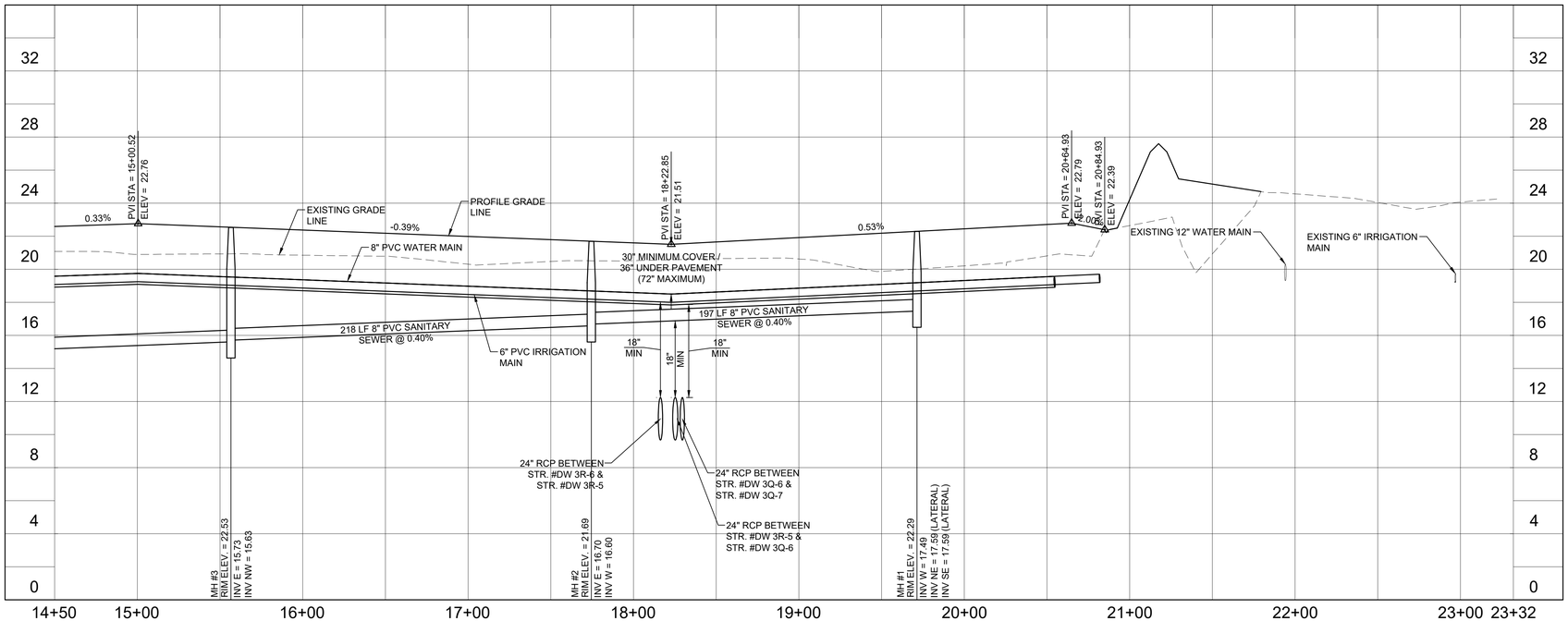

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

PLAN AND PROFILE - HARMONY DRIVE (STA. 14+50 TO END)

PLAN REVISIONS

1	03/01/17	REVISED PER COLLIER COUNTY AND AMEC COMMENTS
2	10/18/19	REVISED PER ENGINEER AND CLIENT

REV#3 <<SUBMITTED / BID SET>> 01/13/17

0 20 40 80
SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 31

VERTICAL ELEVATIONS BASED ON: NAVD-88

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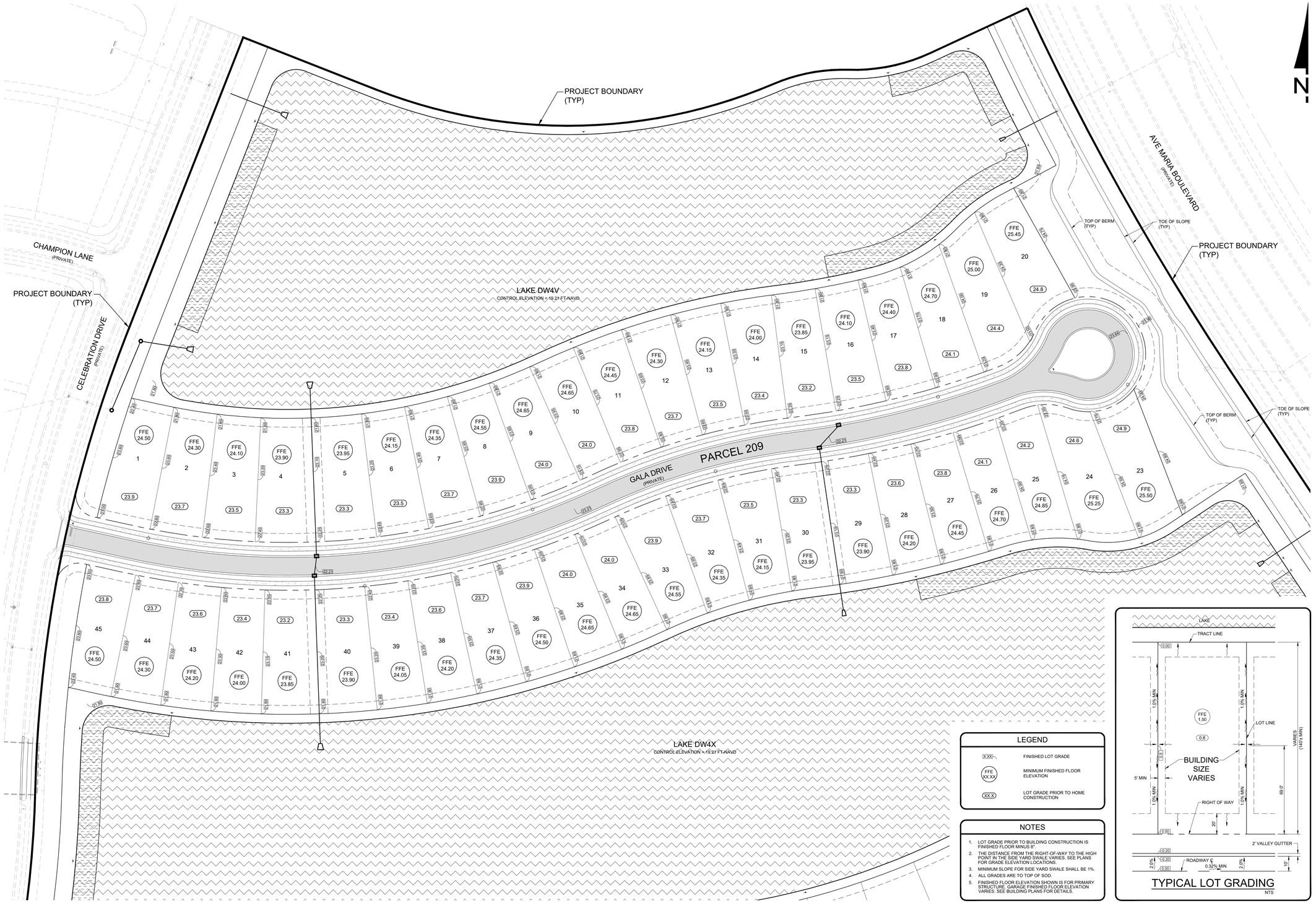

LEGEND

XX.X	FINISHED LOT GRADE
FFE XX.XX	MINIMUM FINISHED FLOOR ELEVATION
XX.X	LOT GRADE PRIOR TO HOME CONSTRUCTION

NOTES

1. LOT GRADE PRIOR TO BUILDING CONSTRUCTION IS FINISHED FLOOR MINUS 8".
2. THE DISTANCE FROM THE RIGHT-OF-WAY TO THE HIGH POINT IN THE SIDE YARD SWALE VARIES. SEE PLANS FOR GRADE ELEVATION LOCATIONS.
3. MINIMUM SLOPE FOR SIDE YARD SWALE SHALL BE 1%.
4. ALL GRADES ARE TO TOP OF SOD.
5. FINISHED FLOOR ELEVATION SHOWN IS FOR PRIMARY STRUCTURE. GARAGE FINISHED FLOOR ELEVATION VARIES. SEE BUILDING PLANS FOR DETAILS.

TYPICAL LOT GRADING

NTS

VERTICAL ELEVATIONS BASED ON: NAVD-88

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

LOT GRADING SHEET - GALA DRIVE

PLAN REVISIONS

1	08/01/17	REVISED PER COLLIER COUNTY AND AMAC COMMENTS
2	10/18/19	REVISED PER ENGINEER AND CLIENT

REVD <<SUBMITTED / BID SET>> 01/13/17

0 25 50 100
SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 32

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LEGEND

XXX	FINISHED LOT GRADE
FFE XX.XX	MINIMUM FINISHED FLOOR ELEVATION
XX.X	LOT GRADE PRIOR TO HOME CONSTRUCTION

NOTES

1. LOT GRADE PRIOR TO BUILDING CONSTRUCTION IS FINISHED FLOOR MINUS 8".
2. THE DISTANCE FROM THE RIGHT-OF-WAY TO THE HIGH POINT IN THE SIDE YARD SWALE VARIES. SEE PLANS FOR GRADE ELEVATION LOCATIONS.
3. MINIMUM SLOPE FOR SIDE YARD SWALE SHALL BE 1%.
4. ALL GRADES ARE TO TOP OF SOD.
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TYPICAL LOT GRADING

NTS

VERTICAL ELEVATIONS BASED ON: NAVD-88

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

LOT GRADING SHEET - NOBILITY WAY

PLAN REVISIONS	REV00 <<SUBMITTED / BID SET>> 01/13/17
1	03/01/17 REVISED PER COLLIER COUNTY AND AMLC COMMENTS
2	10/18/19 REVISED PER ENGINEER AND CLIENT

0 25 50 100
SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 68421

SET NUMBER: 133-59-01

SHEET : 33

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LEGEND

XX.X	FINISHED LOT GRADE
FFE XX.XX	MINIMUM FINISHED FLOOR ELEVATION
XX.X	LOT GRADE PRIOR TO HOME CONSTRUCTION

NOTES

1. LOT GRADE PRIOR TO BUILDING CONSTRUCTION IS FINISHED FLOOR MINUS 8".
2. THE DISTANCE FROM THE RIGHT-OF-WAY TO THE HIGH POINT IN THE SIDE YARD SWALE VARIES. SEE PLANS FOR GRADE ELEVATION LOCATIONS.
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TYPICAL LOT GRADING
NTS

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

LOT GRADING SHEET - REVELRY COURT

PLAN REVISIONS

A	03/01/17	REVISED PER COLLIER COUNTY AND AMUC COMMENTS
B	10/18/19	REVISED PER ENGINEER AND CLIENT

REV00 <<SUBMITTED / BID SET>> 01/13/17

0 25 50 100
SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 68421

SET NUMBER: 133-59-01

SHEET : 34

VERTICAL ELEVATIONS BASED ON: NAVD-88

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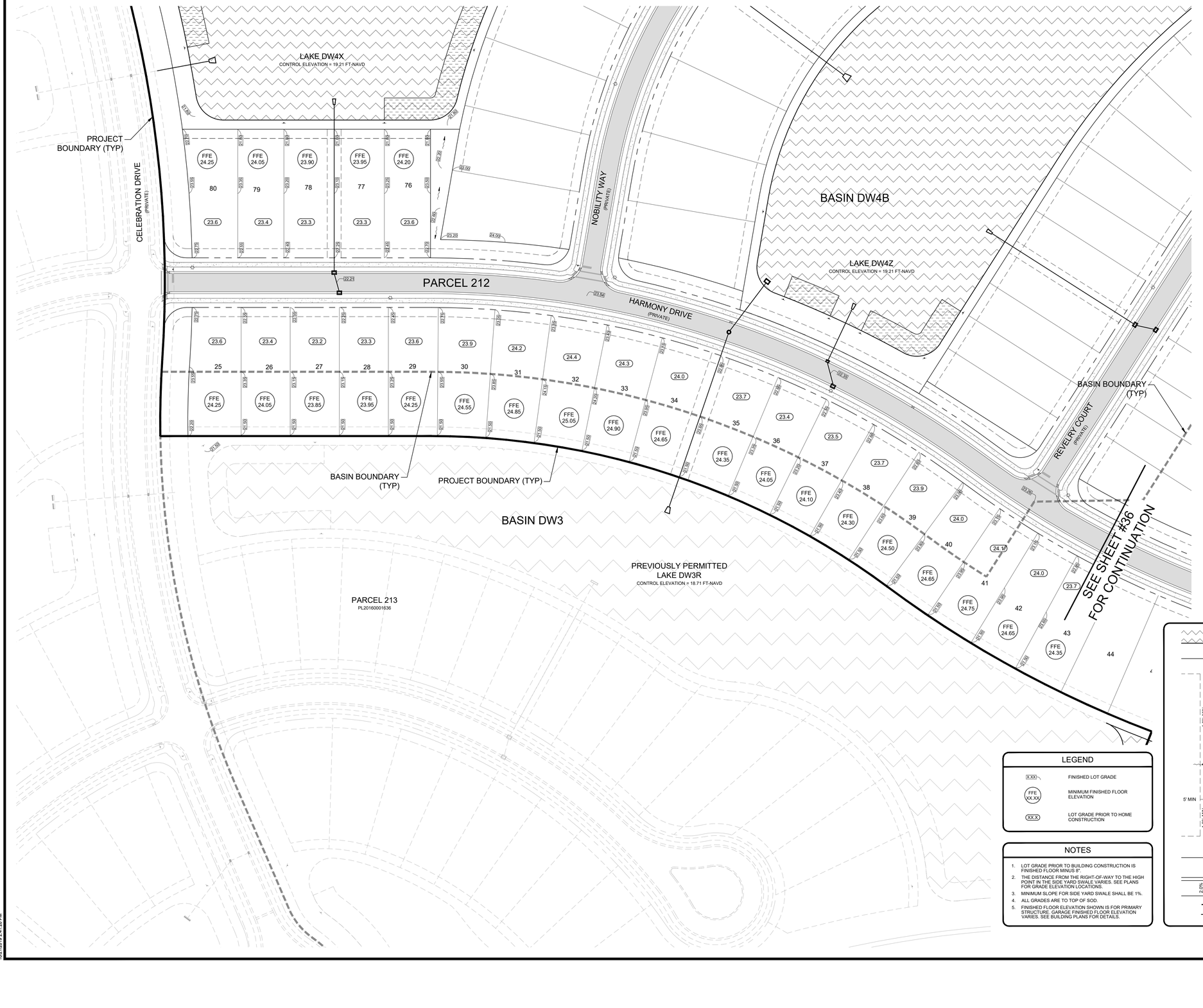
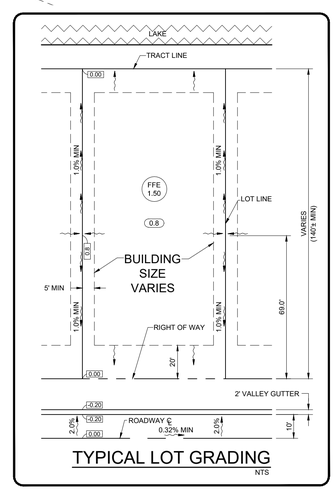


LEGEND

XXX	FINISHED LOT GRADE
FFE XX.XX	MINIMUM FINISHED FLOOR ELEVATION
XX.X	LOT GRADE PRIOR TO HOME CONSTRUCTION

NOTES

1. LOT GRADE PRIOR TO BUILDING CONSTRUCTION IS FINISHED FLOOR MINUS 8".
2. THE DISTANCE FROM THE RIGHT-OF-WAY TO THE HIGH POINT IN THE SIDE YARD SWALE VARIES. SEE PLANS FOR GRADE ELEVATION LOCATIONS.
3. MINIMUM SLOPE FOR SIDE YARD SWALE SHALL BE 1%.
4. ALL GRADES ARE TO TOP OF SOD.
5. FINISHED FLOOR ELEVATION SHOWN IS FOR PRIMARY STRUCTURE. GARAGE FINISHED FLOOR ELEVATION VARIES. SEE BUILDING PLANS FOR DETAILS.



TYPICAL LOT GRADING

NTS

VERTICAL ELEVATIONS BASED ON: NAVD-88

WALDROP ENGINEERING
CIVIL ENGINEERING & LAND DEVELOPMENT CONSULTANTS
25100 BONITA GRANDE DRIVE - SUITE 305 BONITA SPRINGS, FL 34135
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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

LOT GRADING SHEET - HARMONY DRIVE (A)

PLAN REVISIONS	REVDD <<SUBMITTED / BID SET>> 01/13/17
03/31/17	REVISED PER COLLIER COUNTY AND AMEC COMMENTS
10/16/19	REVISED PER ENGINEER AND CLIENT

0 25 50 100
SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 35

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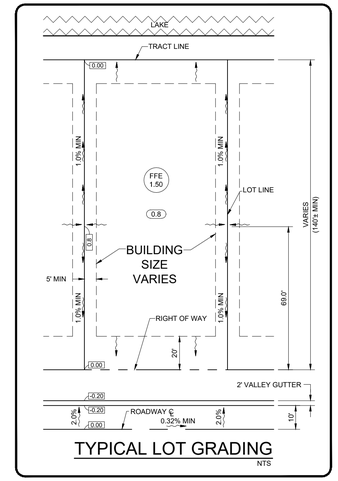
LEGEND	
XXX	FINISHED LOT GRADE
FFE XX.XX	MINIMUM FINISHED FLOOR ELEVATION
XX.X	LOT GRADE PRIOR TO HOME CONSTRUCTION

NOTES

1. LOT GRADE PRIOR TO BUILDING CONSTRUCTION IS FINISHED FLOOR MINUS 8".
2. THE DISTANCE FROM THE RIGHT-OF-WAY TO THE HIGH POINT IN THE SIDE YARD SWALE VARIES. SEE PLANS FOR GRADE ELEVATION LOCATIONS.
3. MINIMUM SLOPE FOR SIDE YARD SWALE SHALL BE 1%.
4. ALL GRADES ARE TO TOP OF SOD.
5. FINISHED FLOOR ELEVATION SHOWN IS FOR PRIMARY STRUCTURE. GARAGE FINISHED FLOOR ELEVATION VARIES. SEE BUILDING PLANS FOR DETAILS.



TYPICAL LOT GRADING
NTS

VERTICAL ELEVATIONS BASED ON: NAVD-88

WALDROP ENGINEERING
CIVIL ENGINEERING & LAND DEVELOPMENT CONSULTANTS
25100 BONITA GRANDE DRIVE - SUITE 305 BONITA SPRINGS, FL 34135
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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

LOT GRADING SHEET - HARMONY DRIVE (B)

PLAN REVISIONS	REVISIONS <<SUBMITTED / BID SET>> 01/13/17
03/31/17	REVISED PER COLLIER COUNTY AND AMEC COMMENTS
10/18/19	REVISED PER ENGINEER AND CLIENT

SCALE IN FEET: 0 25 50 100

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 36

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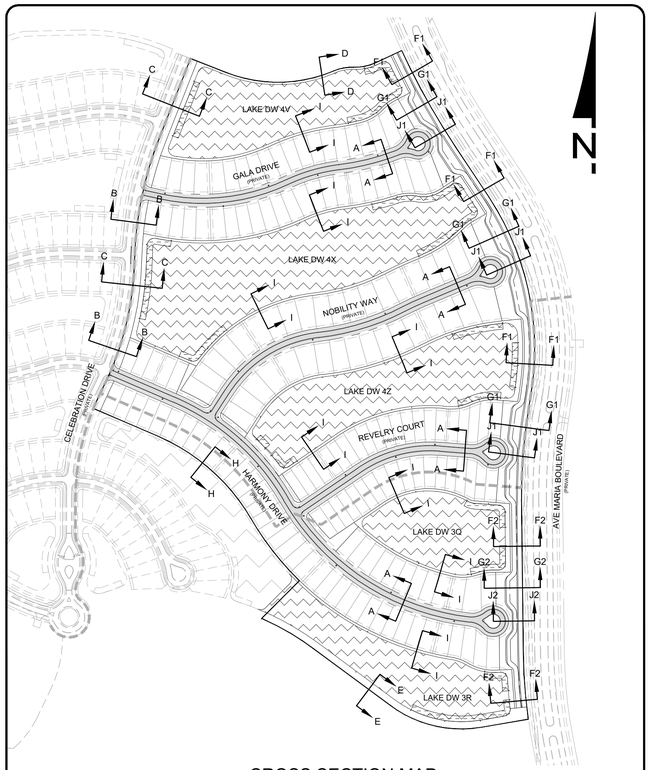

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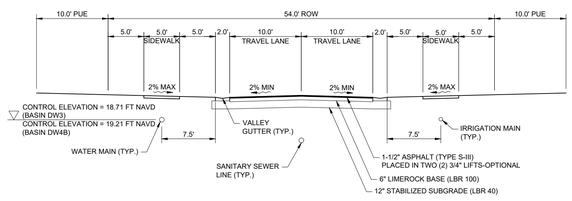

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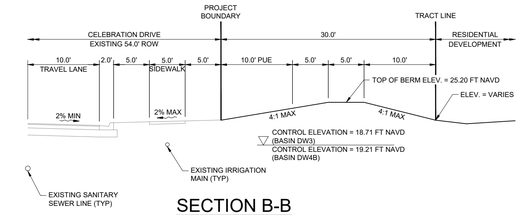

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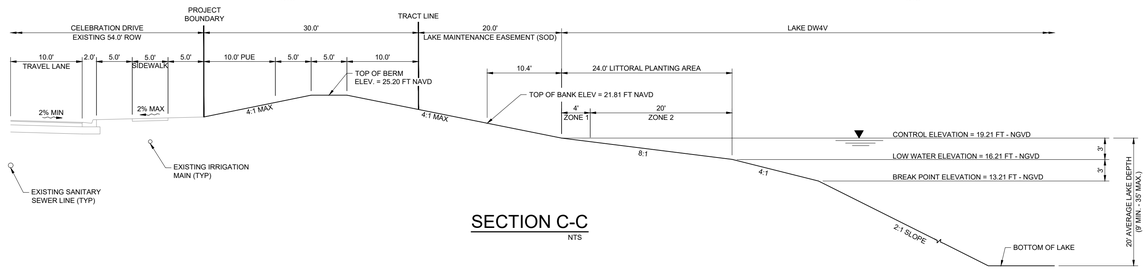

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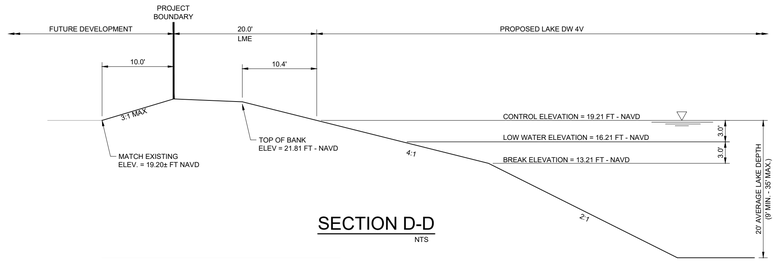

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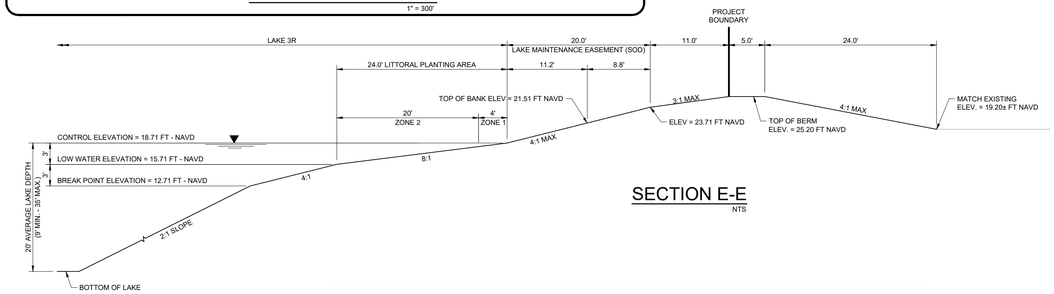

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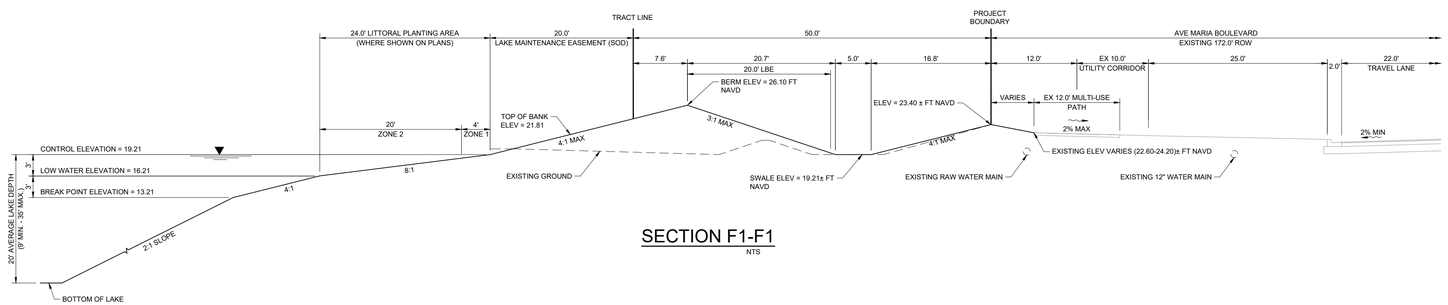

SECTION F1-F1
NTS

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28100 BONITA GRANDE DRIVE - SUITE 305 BONITA SPRINGS, FL 34135
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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

CROSS SECTIONS

PLAN REVISIONS

1	08/01/17	REVISED PER COLLIER COUNTY AND AMEC COMMENTS
0		REV00 <<SUBMITTED / BID SET>> 01/13/17

NOT TO SCALE

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 37

VERTICAL ELEVATIONS BASED ON: NAVD-88

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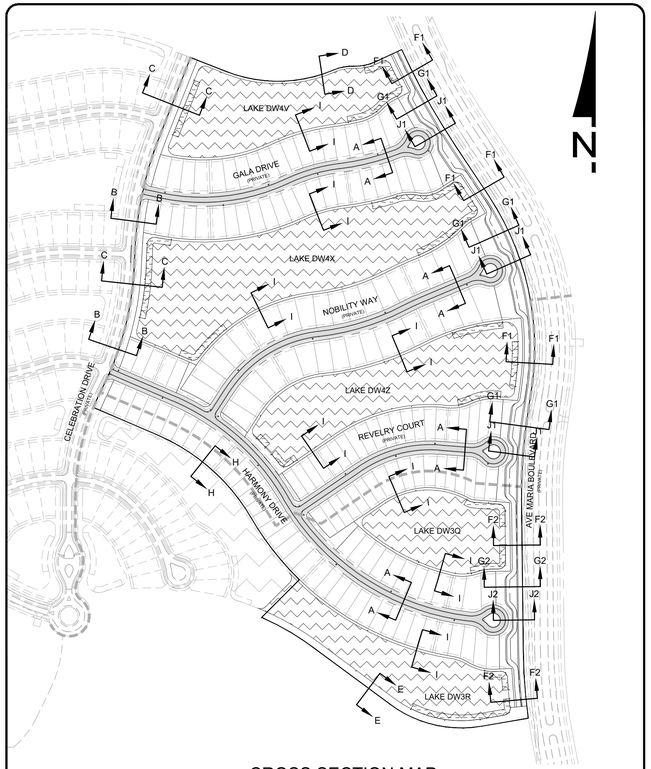

CROSS SECTION MAP

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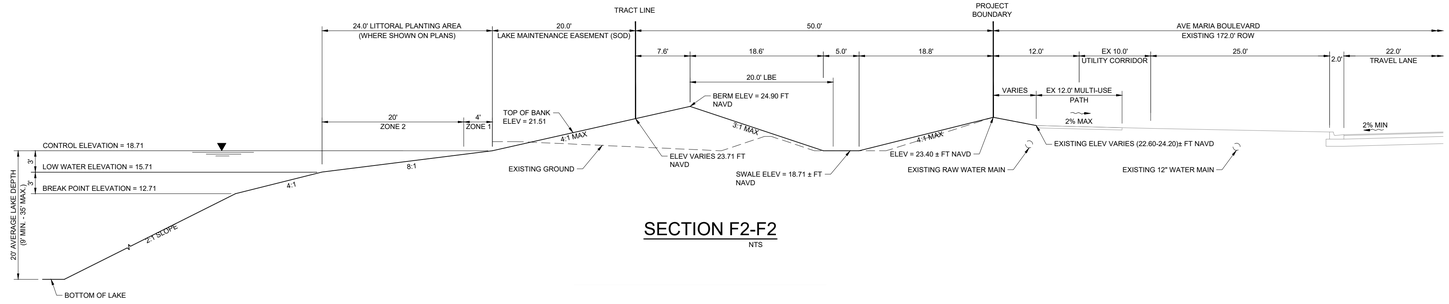
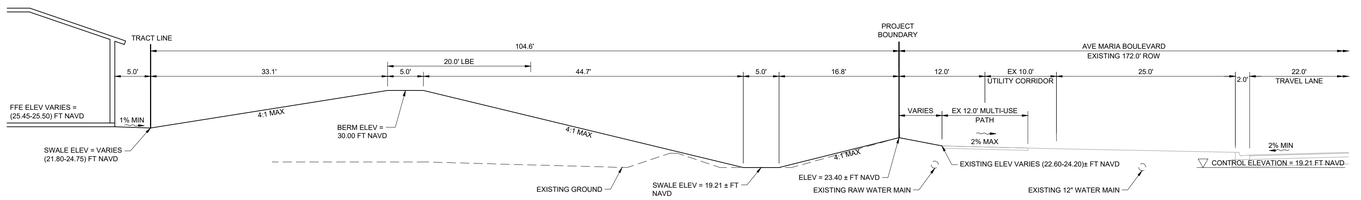


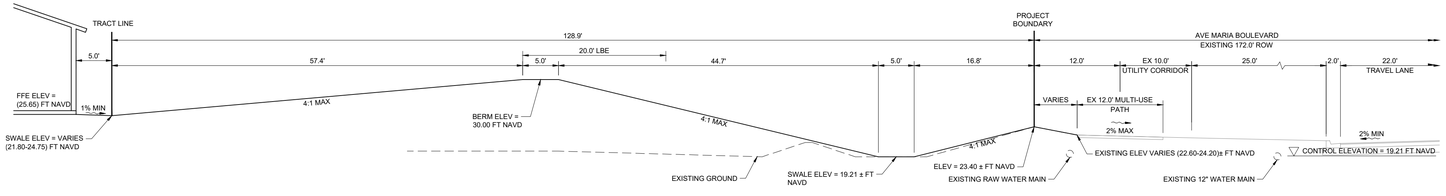
SECTION F2-F2

NTS



SECTION G1-G1 (PARCEL 209)

NTS



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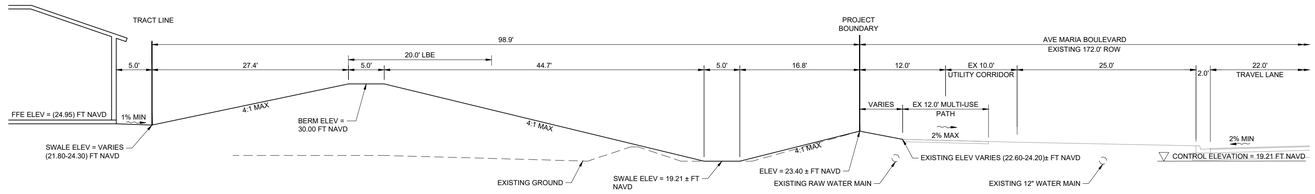

SECTION G1-G1 (PARCEL 211)

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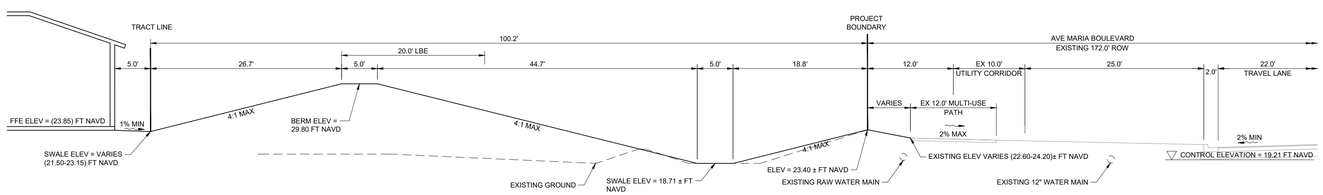

SECTION G2-G2

NTS

LAKE MANAGEMENT SUMMARY

	DRAINAGE BASIN	CONTROL ELEVATION (FT - NAVD)	LOW WATER ELEVATION (FT - NAVD)	BREAK POINT ELEVATION (FT - NAVD)
LAKE DW 3R	DW 3	18.71	15.71	12.71
LAKE DW 3Q	DW 3	18.71	15.71	12.71
LAKE DW 4Z	DW 4B	19.21	16.21	13.21
LAKE DW 4X	DW 4B	19.21	16.21	13.21
LAKE DW 4V	DW 4B	19.21	16.21	13.21

VERTICAL ELEVATIONS BASED ON: NAVD-88

WALDROP ENGINEERING
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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

CROSS SECTIONS

PLAN REVISIONS		
		REV00 <<SUBMITTED / BID SET>> 01/13/17
A	03/01/17	REVISED PER COLLIER COUNTY AND AMAC COMMENTS
B	10/16/19	REVISED PER ENGINEER AND CLIENT

NOT TO SCALE

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 38

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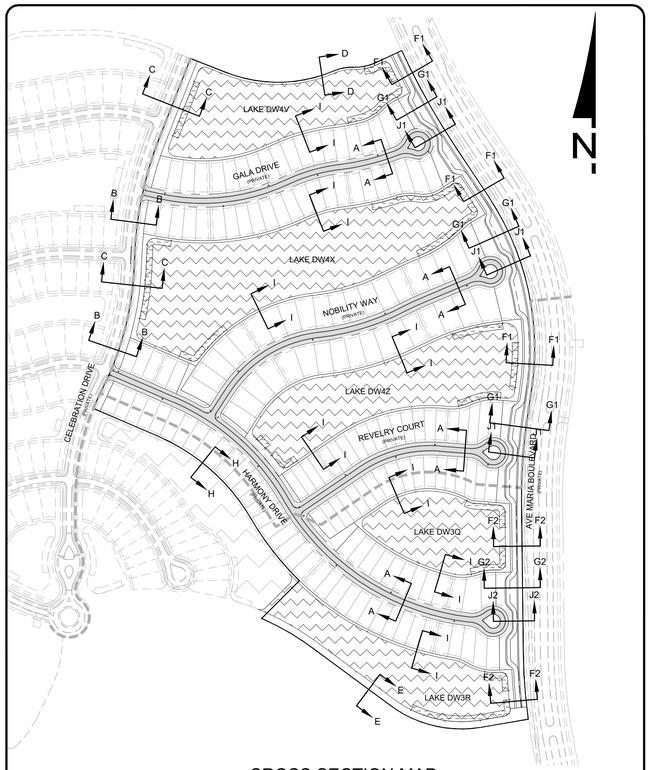
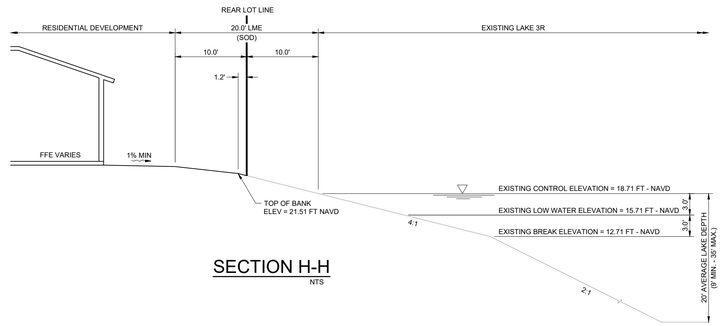
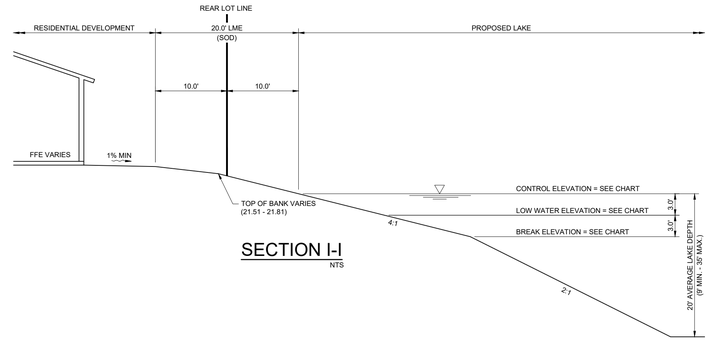


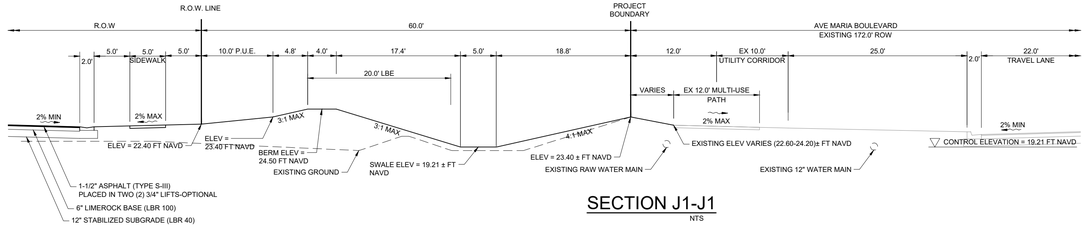
CROSS SECTION MAP
1" = 300'



SECTION H-H
NTS



SECTION I-I
NTS



SECTION J1-J1
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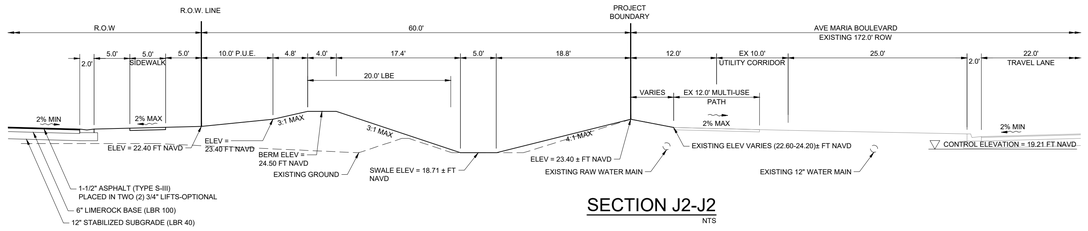

SECTION J2-J2
NTS

LAKE MANAGEMENT SUMMARY

	DRAINAGE BASIN	CONTROL ELEVATION (FT - NAVD)	LOW WATER ELEVATION (FT - NAVD)	BREAK POINT ELEVATION (FT - NAVD)
LAKE DW 3R	DW 3	18.71	15.71	12.71
LAKE DW 3Q	DW 3	18.71	15.71	12.71
LAKE DW 4Z	DW 4B	19.21	16.21	13.21
LAKE DW 4X	DW 4B	19.21	16.21	13.21
LAKE DW 4V	DW 4B	19.21	16.21	13.21

VERTICAL ELEVATIONS BASED ON: NAVD-88

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

CROSS SECTIONS

PLAN REVISIONS

1	03/01/17	REVISED PER COUNTY AND AMEC COMMENTS
2	10/18/19	REVISED PER ENGINEER AND CLIENT

REV00 <<SUBMITTED / BID SET>> 01/13/17

NOT TO SCALE

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 39

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DRAINAGE STRUCTURE TABLE

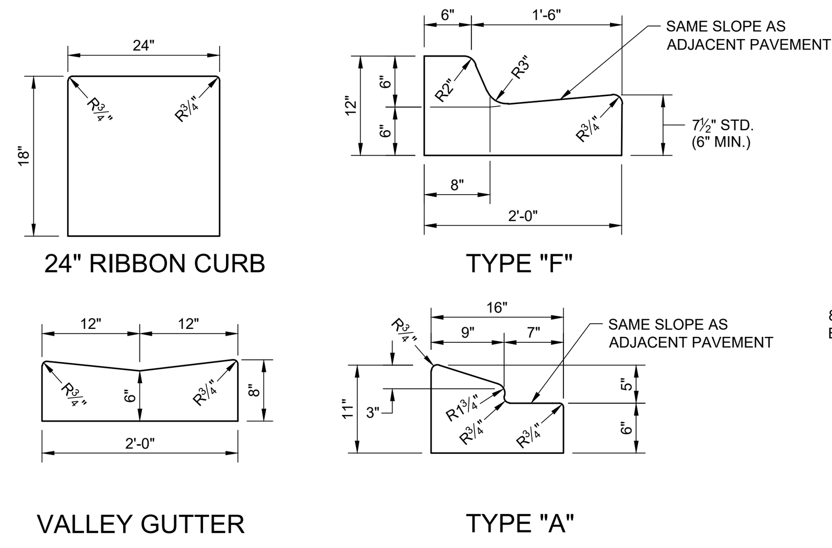
TYPE OF STRUCTURE	REFERENCE	CASTING
CURB INLET TOP - TYPE 9 MODIFIED W/ TYPE J OR P BOTTOM	FDOT INDEX 425-010, 425-024	USF 5130-6168 OR APPROVED EQUAL
ENDWALL	FDOT INDEX 430-030	N/A
GRATE INLET	SEE DETAIL	USF 4170 - 6245 OR APPROVED EQUAL
VALLEY GUTTER INLET	SEE DETAIL	USF 5106 - 6149 OR APPROVED EQUAL
JUNCTION BOX	SEE DETAIL	USF 5106 - 6149 OR APPROVED EQUAL

GENERAL STRUCTURE DESIGN NOTES:

1. ALL REINFORCING STEEL SHALL HAVE A MINIMUM TWO INCHES OF COVER.
2. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS.
3. PRECAST STRUCTURE WALLS SHALL BE 6" THICK (MIN.)
4. CAST-IN-PLACE STRUCTURE WALLS SHALL BE 8" THICK (MIN.)
5. MINIMUM STRUCTURE SIZES ARE PER FDOT STANDARD INDEX 425-010, TABLES 3 AND 4.

MINIMUM DIMENSIONS FOR DRAINAGE STRUCTURES

PIPE SIZE	MINIMUM STRUCTURE WIDTH
15"	3.0 FT
18"	3.0 FT
24"	3.5 FT
30"	4.0 FT
36"	4.5 FT
42"	5.0 FT
48"	5.5 FT
54"	6.0 FT
60"	6.5 FT

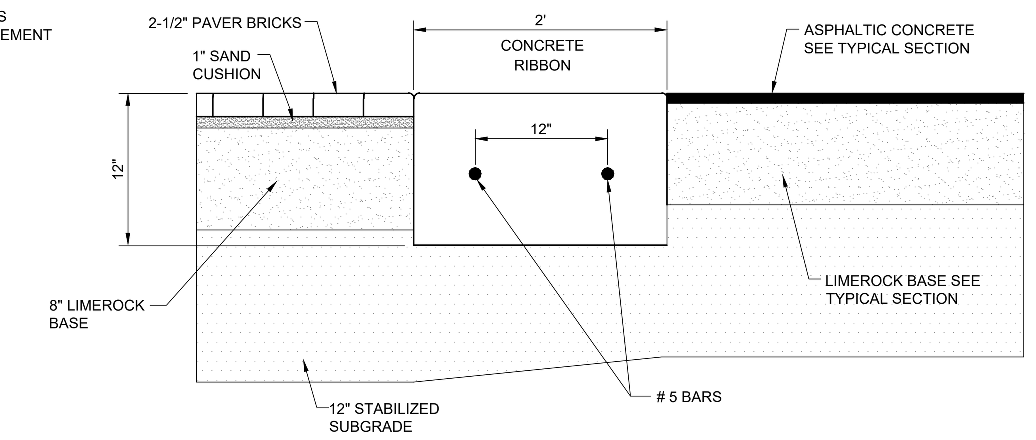


CONCRETE CURB NOTES:

1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS UNLESS OTHERWISE NOTED.
2. CURB SHALL BE CONSTRUCTED IN CONFORMANCE WITH FDOT INDEX 520-001.
3. CURB SHALL HAVE EXPANSION JOINTS INSTALLED WITHIN 10' OF EACH SIDE OF INLETS, AND EVERY 500'±.
4. AN EXPANSION JOINT WILL BE PLACED AT THE END OF ALL RETURNS AT INTERVALS NOT TO EXCEED 50' WITH CONTRACTION JOINTS AT 10' INTERVALS.
5. EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2" BITUMINOUS IMPREGNATED EXPANSION MATERIAL.

CURB AND CURB AND GUTTER DETAILS

NTS

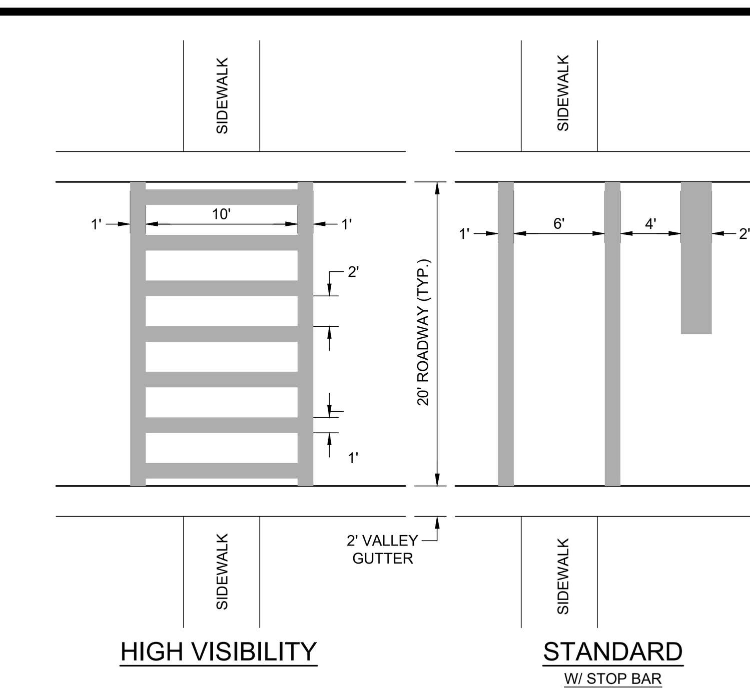


CONCRETE RIBBON NOTES:

1.) CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS UNLESS OTHERWISE NOTED.
2.) INSTALL PAVER BRICKS PER MANUFACTURER'S SPECIFICATIONS.
3.) CURB SHALL HAVE EXPANSION JOINTS INSTALLED AT ALL INLETS AND EVERY ±500'.

CONCRETE RIBBON CURB DETAIL

NTS

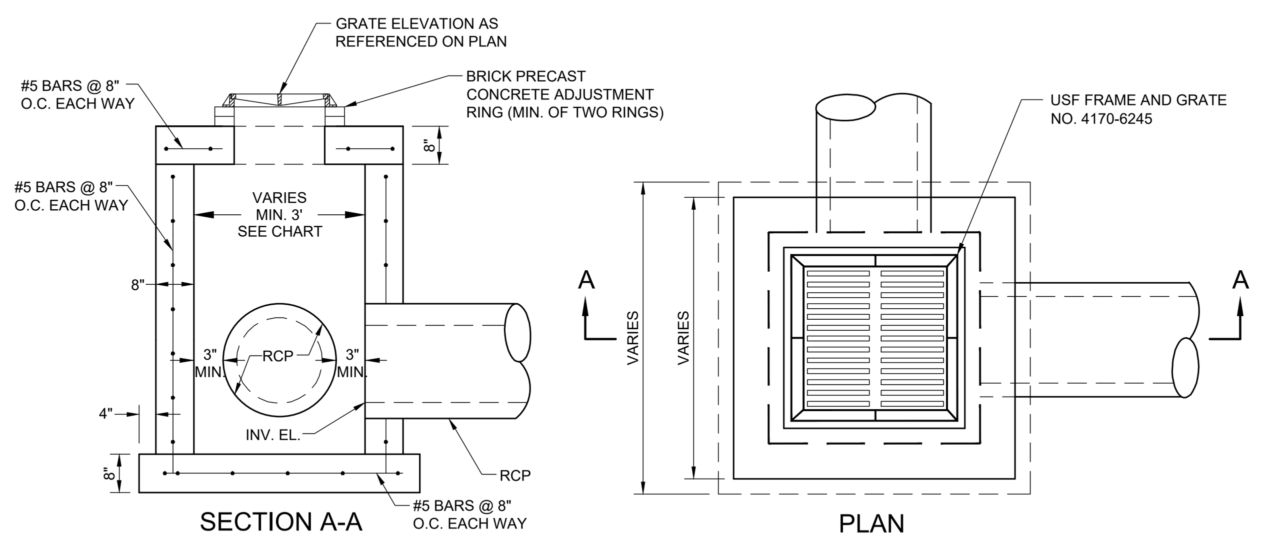


NOTES:

1.) SEE PLANS FOR TYPE OF CROSSWALK STRIPING AND LOCATION.
2.) DETAILS REFERENCED F.D.O.T. INDEX NO. 711-001 & M.U.T.C.D. SECTION 3B.17
3.) CROSSWALKS SHALL HAVE A MAXIMUM RUNNING SLOPE OF 1:20 (5%) AND A MAXIMUM CROSS SLOPE OF 1:50 (2%) PER ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 4.3.

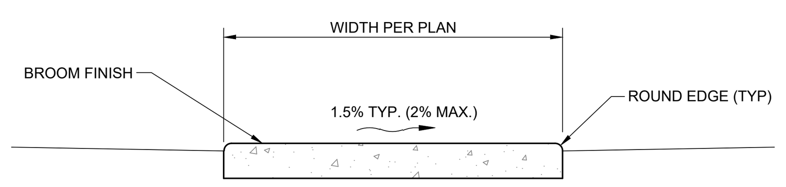
TYPICAL PEDESTRIAN CROSSWALKS

NTS



GRATE INLET

NTS

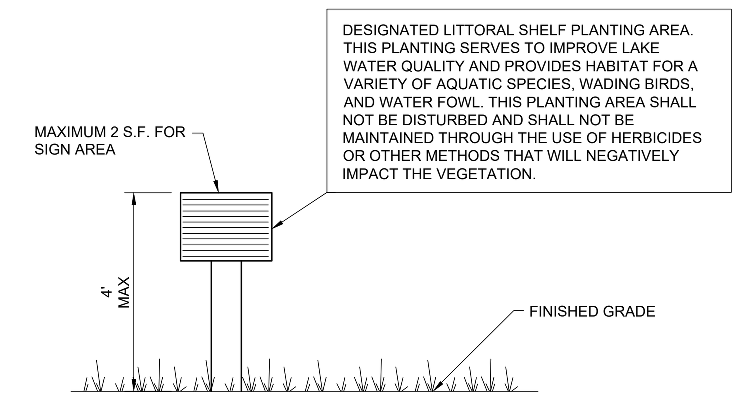


NOTES:

1.) SIDEWALK SHALL BE CONSTRUCTED IN CONFORMANCE WITH FDOT STANDARD INDEX 522-001 AND STANDARD SPECIFICATION 522 AND CORRESPONDING STANDARDS.
2.) COMPACT FILL AREAS TO MINIMUM 95 % OF AASHTO T99 DENSITY.
3.) SIDEWALK SHALL HAVE CONTRACTION JOINTS SPACED EQUALLY TO THE SIDEWALK WIDTH AND HAVE EXPANSION JOINTS EVERY 120' MAXIMUM.
4.) CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS.
5.) SIDEWALKS SHALL HAVE A MAXIMUM RUNNING SLOPE OF 1:20 (5%) AND A MAXIMUM CROSS SLOPE OF 1:48 (2%) PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 403.3
6.) CURB RAMPS SHALL BE CONSTRUCTED IN CONFORMANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 406 AND 2019 FDOT STANDARD INDEX 522-002.

TYPICAL CONCRETE SIDEWALK DETAIL

NTS

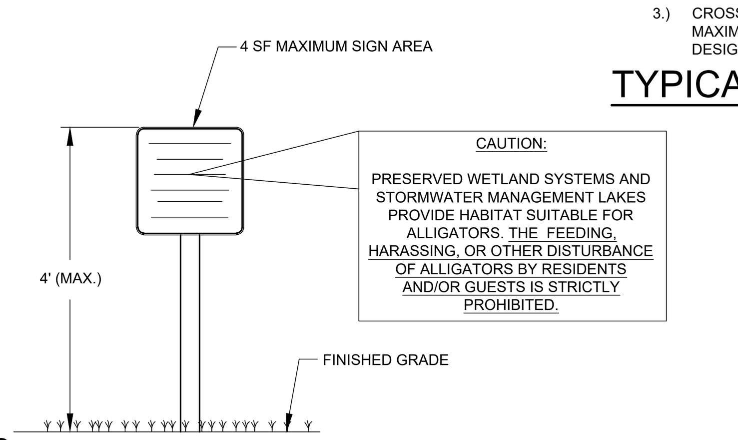


NOTES:

1. THE BOUNDARY OF THE LSPA SHALL BE POSTED WITH APPROPRIATE SIGNAGE DENOTING THE AREA AS LSPA. THE SIGNS SHALL NOTE THAT THE POSTED AREA IS A LITTORAL SHELF PLANTING AREA THAT PROVIDES ECOLOGICAL BENEFITS TO THE LAKE AREA AND CONTAINS DETAILED INSTRUCTIONS TO ENSURE THAT THE PLANTED AREA WILL NOT BE SUBJECTED TO TYPICAL LANDSCAPE MAINTENANCE PRACTICES SUCH AS MOWING OR CHEMICAL TREATMENTS EXCEPT AS ALLOWED IN OPERATIONAL REQUIREMENTS.
2. SIGNS SHALL BE PLACED AT THE EDGE OF WATER AT THE PERMITTED CONTROL ELEVATION.
3. A MINIMUM OF TWO SIGNS SHALL BE PROVIDED TO MARK THE EXTENT OF THE LSPA.
4. MAXIMUM SIGN SPACING SHALL BE 150'.
5. THE SIGN SHALL COMPLY WITH COLLIER COUNTY LAND DEVELOPMENT CODE SECTION 5.06.03 AND 3.05.10.

LITTORAL SHELF PLANTING AREA SIGN DETAIL

NTS

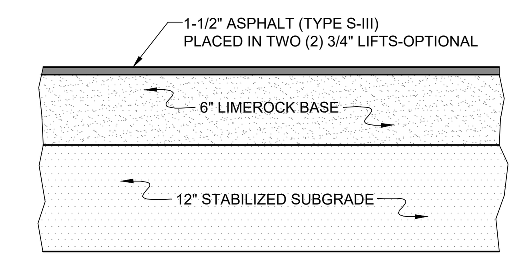


NOTES:

1. IF THE WORDING ON THE SIGNAGE DIFFERS FROM LANGUAGE ABOVE, CONTRACTOR SHALL OBTAIN APPROVAL FROM OWNER AND COLLIER COUNTY PRIOR TO SIGN FABRICATION OR INSTALLATION.
2. THE BOUNDARY OF THE LAKES AND PRESERVED WETLANDS SHALL BE POSTED WITH APPROPRIATE SIGNAGE IDENTIFYING THE AREA AS HABITAT SUITABLE FOR ALLIGATORS. THE ALLIGATOR SIGNAGE SHALL BE POSTED ADJACENT TO STORMWATER MANAGEMENT LAKES AND PRESERVED WETLANDS IN COMMON AREAS WHERE THE GREATEST POTENTIAL FOR PUBLIC INTERACTION WITH THE ALLIGATOR EXISTS.
3. REFERENCE THE SITE PLAN SHEETS FOR THE LOCATION OF SIGNAGE.

AMERICAN ALLIGATOR WARNING SIGNAGE

NTS

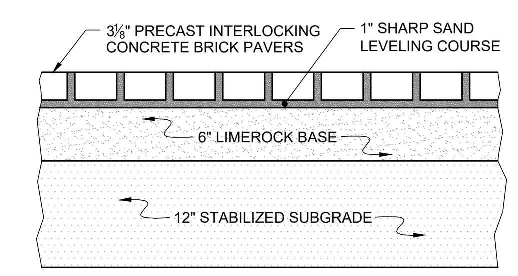


LIMEROCK & SUBGRADE NOTES:

1.) 6" LIMEROCK BASE, PRIMED AND COMPACTED TO 98% OF MAX. DENSITY (DETERMAINED BY AASHTO T-180)
2.) 12" STABILIZED SUBGRADE (MIN. LBR 40)
3.) STABILIZED SUBGRADE TO EXTEND 1 FOOT BEYOND EDGE OF PAVEMENT AND BACK OF CURB
4.) WHEN NO CURB IS PROPOSED LIMEROCK TO EXTEND 6 INCHES BEYOND EDGE OF PAVEMENT

TYPICAL PAVING SECTION

NTS

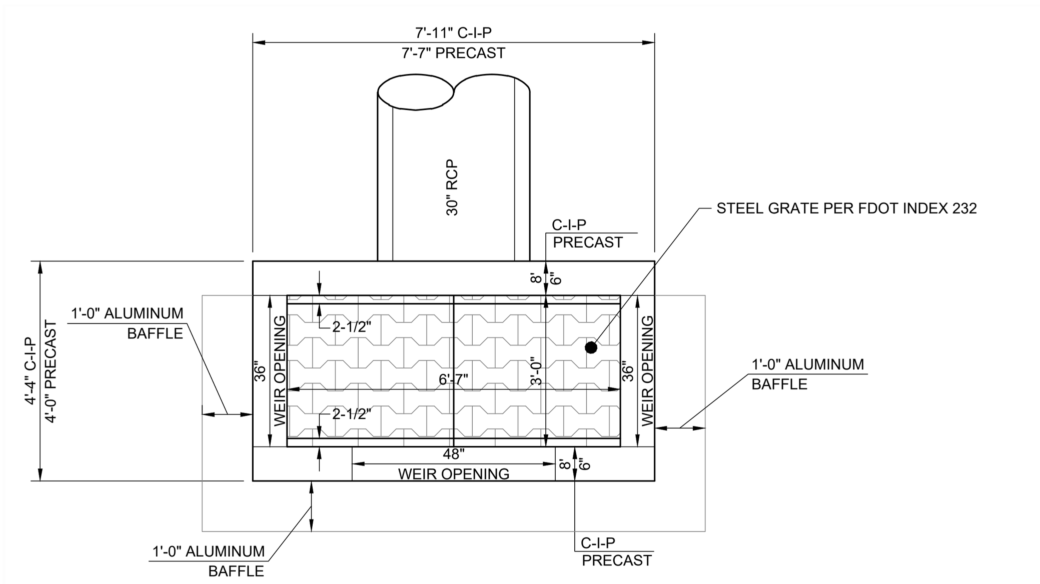


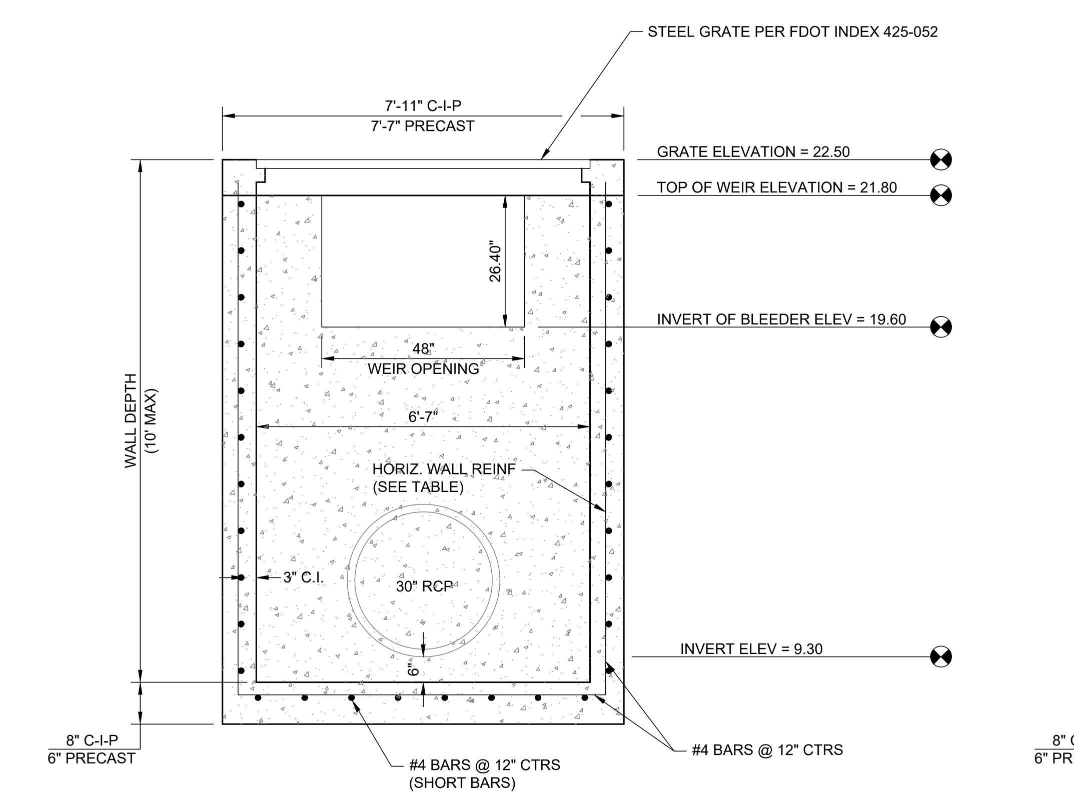
PAVING NOTES:

1.) 6" LIMEROCK BASE, PRIMED AND COMPACTED TO 98% OF MAX. DENSITY (DETERMAINED BY AASHTO T-180)
2.) 12" STABILIZED SUBGRADE (MIN. LBR 40)
3.) STABILIZED SUBGRADE TO EXTEND 1 FOOT BEYOND EDGE OF PAVEMENT AND BACK OF CURB
4.) WHEN NO CURB IS PROPOSED LIMEROCK TO EXTEND 6 INCHES BEYOND EDGE OF PAVEMENT

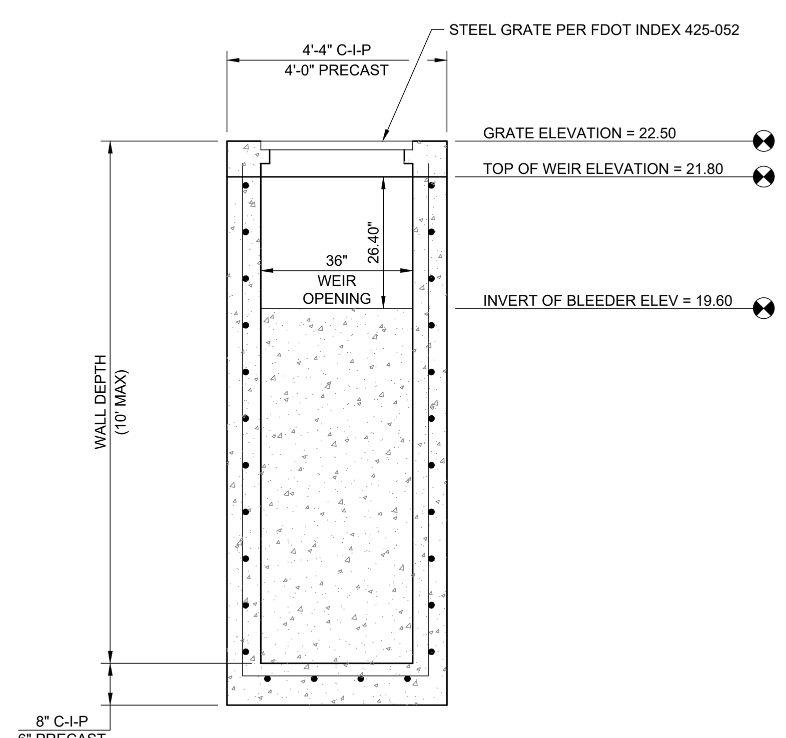
TYPICAL PAVER BRICK SECTION

NTS





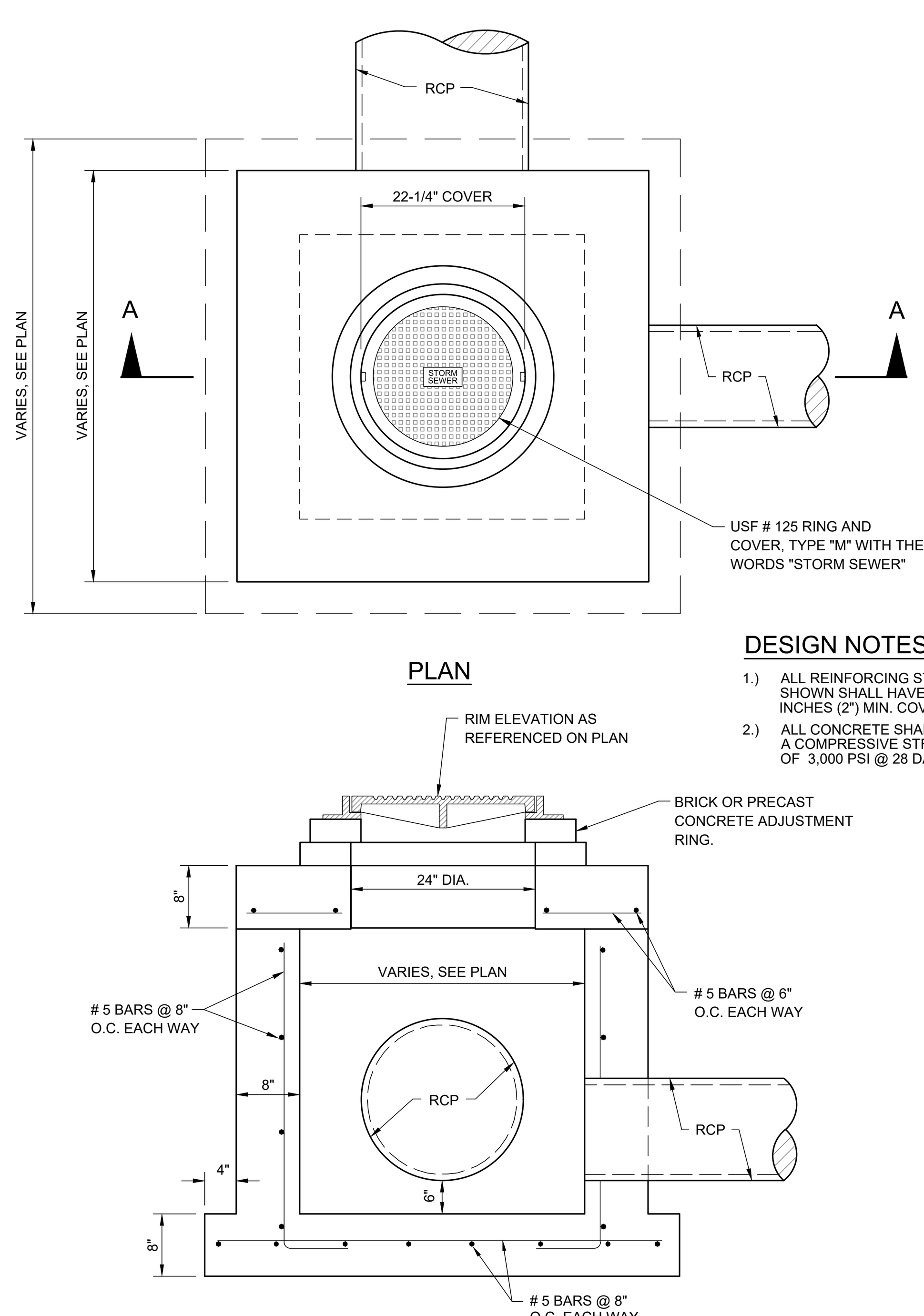
PROFILE



PROFILE

MODIFIED TYPE H 2 GRATE INLET (CONTROL STRUCTURE CS DW4Z / DW3R)

NTS

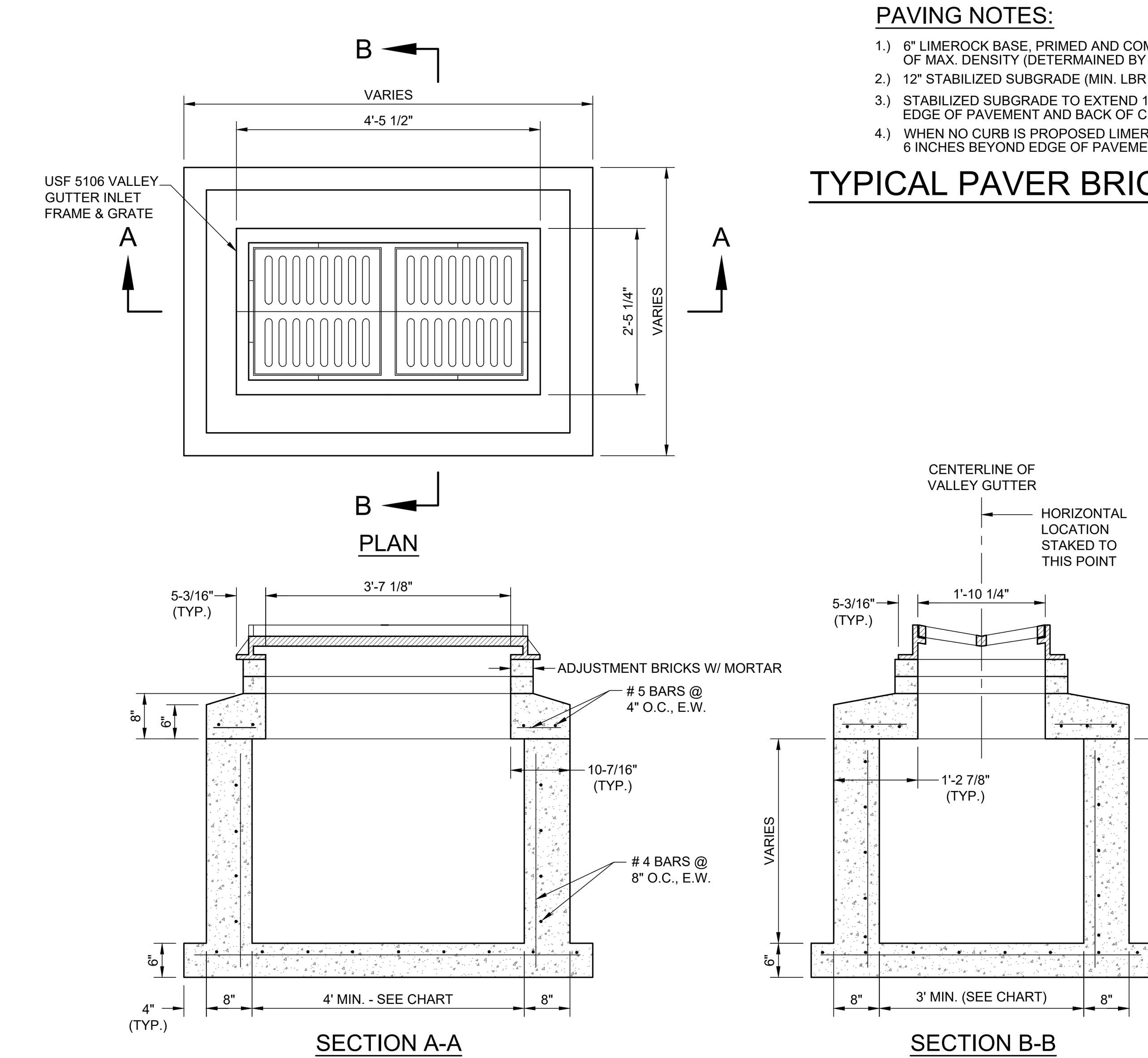


DESIGN NOTES:

1.) ALL REINFORCING STEEL AS SHOWN SHALL HAVE TWO INCHES (2") MIN. COVER.
2.) ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI @ 28 DAYS.

JUNCTION BOX DETAIL

NTS



TYPICAL VALLEY GUTTER INLET DETAIL

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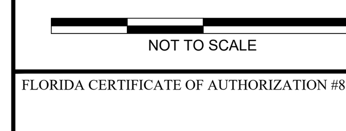

VERTICAL ELEVATIONS BASED ON: NAVD-88

WALDROP ENGINEERING
CIVIL ENGINEERING & LAND DEVELOPMENT CONSULTANTS
28100 BONITA GRANDE DRIVE - SUITE 305 BONITA SPRINGS, FL 34135
P: 239-405-7777 F: 239-405-7899 EMAIL: info@waldropengineering.com

PLANS AND PLAT FOR DEL WEBB NAPLES
PARCELS 209 - 212
CLIENT: PULTE HOME COMPANY, LLC
PAVING AND GRADING DETAILS

PLAN REVISIONS

		REV00 <<SUBMITTED / BID SET>> 01/13/17
1	03/01/17	REVISED PER COLLIER COUNTY AND AMUC COMMENTS
3	10/18/19	REVISED PER ENGINEER AND CLIENT

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01
SHEET : 40

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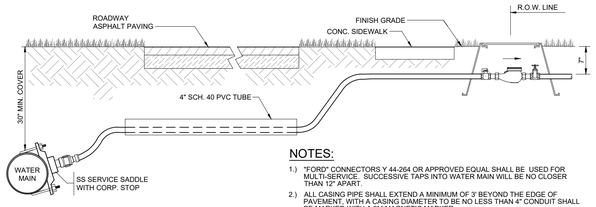


NOTES:

1.) "FORD" CONNECTORS Y 44-264 OR APPROVED EQUAL SHALL BE USED FOR MULTI-SERVICE. SUCCESSIVE TAPS INTO WATER MAIN WILL BE NO CLOSER THAN 12" APART.

2.) ALL CASING PIPE SHALL EXTEND A MINIMUM OF 3' BEYOND THE EDGE OF PAVEMENT, WITH A CASING DIAMETER TO BE NO LESS THAN 4" CONDUIT SHALL BE MARKED WITH A 3M MAGNETIC MARKER.

3.) TAPPING SADDLE, CORP. STOP, POLY TUBING, CURB STOP, AND METER BOXES SHALL BE INSTALLED BY UNDERGROUND UTILITY CONTRACTOR AT THE TIME OF WATER MAIN INSTALLATION.

4.) REFER TO THE AMUC CROSS-CONNECTION CONTROL PLAN FOR GUIDELINES GOVERNING THE INSTALLATION AND CERTIFICATION OF THE BACKFLOW PREVENTER.

5.) AMUC SHALL ONLY BE RESPONSIBLE FOR THE INSTALLATION OF THE WATER METER. THE METER BOX, CURB STOP, METER CONNECTORS, REBAR AND GATE VALVE ARE THE RESPONSIBILITY OF THE DEVELOPER AND SHALL BE IN PLACE PRIOR TO AMUC SETTING THE METER. IN ADDITION, AMUC SHALL ONLY INSTALL THE METER AFTER THE REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY (RPBA) HAS BEEN CERTIFIED ACCORDING TO THE AMUC CROSS-CONNECTION CONTROL PLAN.

6.) MATERIAL SPECIFICATIONS

a.) TAPPING SADDLES: SADDLES SHALL BE DUCTILE DOUBLE STRAP OR BRASS DOUBLE STRAP AS MANUFACTURED BY FORD F202 OR 202B OR APPROVED EQUAL. SADDLE SIZE SHALL MATCH THE WATER SERVICE SIZE AS NOTED IN THE PLANS.

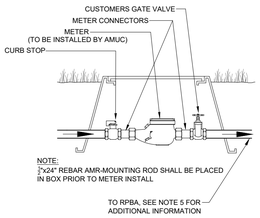
b.) CORPORATION STOPS: SHALL BE BALLCORP AND MADE OF RED BRASS - OUTLET - COMPRESSION TYPE FOR POLYETHYLENE TUBE AS MANUFACTURED BY FORD FB 1000 OR APPROVED EQUAL. COMPRESSION INSERT - SHALL BE STAINLESS STEEL.

c.) CURB STOPS - BALL VALVE: SHALL BE MADE OF RED BRASS - INLET - PACK JOINT - OUTLET - SWIVEL NUT FOR METER CONNECTION AS MANUFACTURED BY FORD-B 43-344 OR APPROVED EQUAL.

d.) TUBING: SHALL BE POLYETHYLENE, PE3408, (AWWA C-901, SDS 9-200) & BLUE IN COLOR. SIZES SHALL BE 3/4" OR 1" FOR 3/4" & 1" METERS, AND 2" FOR 1-1/2" TO 2" METERS.

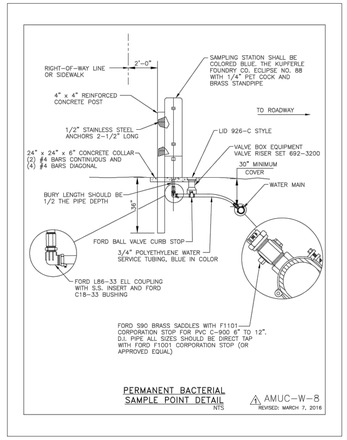
e.) SIZE REQUIREMENTS: SINGLE WATER SERVICES SHALL UTILIZE A 1" SADDLE, 1" CORP STOP, 1" POLYTUBING, AND A 1" CURB STOP. DOUBLE SERVICES SHALL UTILIZE A 1.5" SADDLE, 1.5" CORP STOP, 1.5" POLYTUBING, 1.5"X1" DOUBLE WYE, AND 2-1" CURB STOPS.

f.) METER BOXES SHALL BE AS FOLLOWS: 5/8" BY 3/4" TO 1" METERS - NDS MODEL #D12-TAMR OR 1.5" TO 2" METERS - NDS MODEL #D1500-DIBBTR.



TYPICAL WATER SERVICE METER SETTING

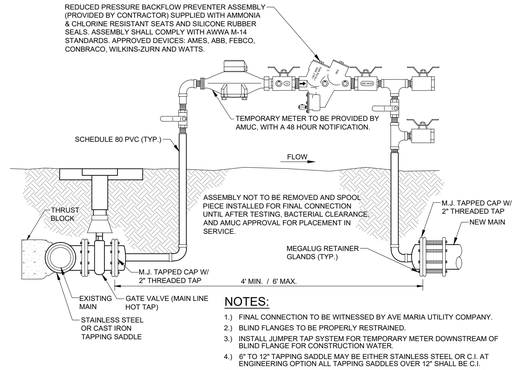
N.T.S.



PERMANENT BACTERIAL SAMPLE POINT DETAIL

NTS

AMUC-W-8
REVISED: MARCH 7, 2016



NOTES:

1.) FINAL CONNECTION TO BE WITNESSED BY AVE MARIA UTILITY COMPANY.

2.) BLIND FLANGES TO BE PROPERLY RESTRAINED.

3.) INSTALL JUMPER TAP SYSTEM FOR TEMPORARY METER DOWNSTREAM OF BLIND FLANGE FOR CONSTRUCTION WATER.

4.) 6" TO 12" TAPPING SADDLE MAY BE EITHER STAINLESS STEEL OR C.I. AT ENGINEERING OPTION ALL TAPPING SADDLES OVER 12" SHALL BE C.I.

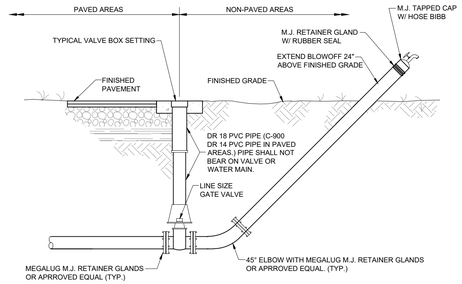
5.) JUMPER ASSEMBLY MUST BE MINIMUM OF 18" ABOVE FINISHED GRADE.

6.) BACKFLOW ASSEMBLY REQUIRES INITIAL CERTIFICATION BY CERTIFIED BACKFLOW TESTER.

7.) THIS ASSEMBLY SHALL ONLY BE USED IF NO COMBUSTIBLES WILL BE ON SITE. IF COMBUSTIBLES ARE BROUGHT ON SITE, THEN A TEMPORARY BACKFLOW LINE-SIZE PREVENTER & FIRE PROTECTION METER TIE-IN ASSEMBLY SHALL BE USED.

CONNECTION TO EXISTING WATER MAIN DETAIL (GAP CONFIGURATION)

N.T.S.



TEMPORARY BLOW-OFF ASSEMBLY W/ BACTERIAL SAMPLE POINT DETAIL

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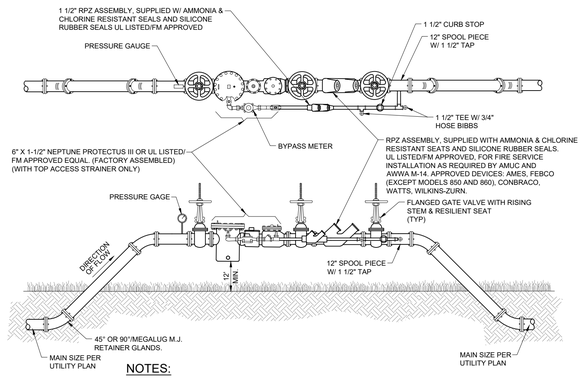


NOTES:

1.) ALL ABOVE GROUND PIPE SHALL BE FLANGED END D.I.P. PRESSURE CLASS 350. ALL NUTS AND BOLTS SHALL BE STAINLESS STEEL.

2.) WATER MAIN EXTENSION AND ASSEMBLY IS REQUIRED TO BE FLUSHED, CHLORINATED AND GIVEN BACTERIAL CLEARANCE BY THE WATER DEPARTMENT LAB BEFORE PLACEMENT IN SERVICE.

3.) BACKFLOW UNIT AND METER REQUIRES INITIAL CERTIFICATION FOR OPERATION AND ACCURACY WITH RESULTS AND ANNUAL TESTS SUBMITTED TO THE AMUC DEPARTMENT FOR RECERTIFICATION.

4.) INSPECTIONS ARE REQUIRED FOR SYSTEM TIE-IN AND ASSEMBLY CONNECTION.

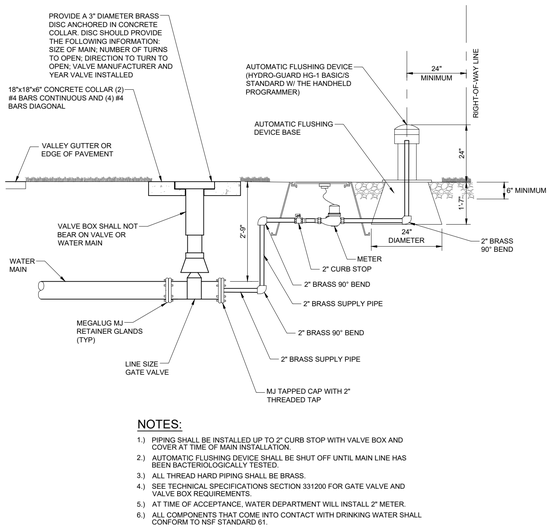
5.) ALL PLANTINGS SHALL BE A MINIMUM OF 3' FROM THE EDGE OF SLAB, AND PROVIDE A 3' ACCESS OPENING.

6.) ALL COMPONENTS THAT COME INTO CONTACT WITH DRINKING WATER SHALL COMFORM TO NSF STANDARD 61.

7.) THIS ASSEMBLY SHALL BE PAINTED WITH RED EPOXY PAINT.

TEMPORARY BACKFLOW PREVENTOR AND FIRE PROTECTION METER TIE-IN ASSEMBLY

N.T.S.



NOTES:

1.) PIPING SHALL BE INSTALLED UP TO 2" CURB STOP WITH VALVE BOX AND COVER AT TIME OF MAIN INSTALLATION.

2.) AUTOMATIC FLUSHING DEVICE SHALL BE SHUT OFF UNTIL MAIN LINE HAS BEEN BACTERIOLOGICALLY TESTED.

3.) ALL THREAD HARD PIPING SHALL BE BRASS.

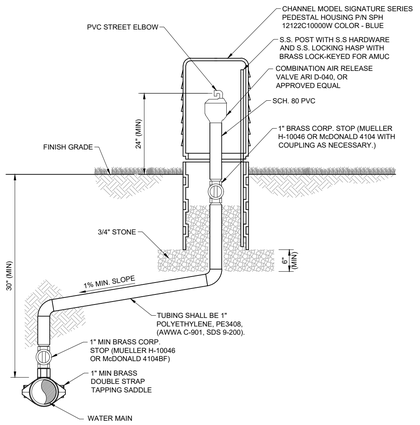
4.) SEE TECHNICAL SPECIFICATIONS SECTION 331200 FOR GATE VALVE AND VALVE BOX REQUIREMENTS.

5.) AT TIME OF ACCEPTANCE, WATER DEPARTMENT WILL INSTALL 2" METER.

6.) ALL COMPONENTS THAT COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NSF STANDARD 61.

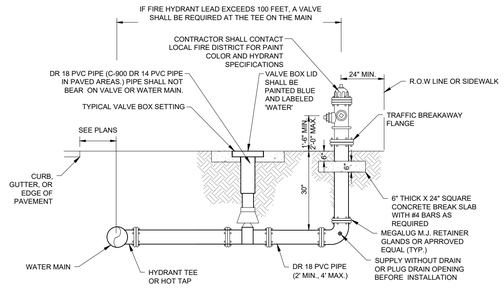
AUTOMATIC WATER MAIN FLUSHING DEVICE DETAIL

NTS



AIR RELEASE VALVE DETAIL (POTABLE WATER)

N.T.S.

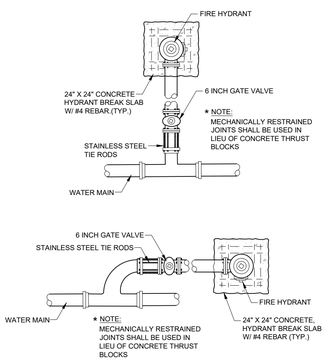


NOTES:

1. HYDRANT MUST BE CURRENT YEAR MANUFACTURE AND YEAR OF MANUFACTURE MUST BE CAST ON BARREL.
2. ALL EXISTING MAINS WHERE FIRE HYDRANTS ARE TO BE INSTALLED SHALL BE HOT TAPPED 6" TO 12" TAPPING SADDLE MAY BE EITHER STAINLESS STEEL OR D.I. AT ENGINEER OPTION.
3. ALL TAPPING SADDLES OVER 12" SHALL BE D.I.
4. ALL FIRE HYDRANT BARRELS SHALL BE A MINIMUM OF 5-1/4" DIAMETER.
5. ALL FIRE HYDRANTS INSTALLED SHALL BE OF THE BREAKAWAY FLANGE TYPE AND MEET THE REQUIREMENTS OF THE LOCAL FIRE CONTROL DISTRICT.
6. HYDRANT SHALL CONFORM WITH AWWA C-502.
7. THRUST RESTRAINT SHALL BE BY MEGALUG RETAINER GLANDS OR APPROVED EQUAL.

FIRE HYDRANT DETAIL

N.T.S.



ANCHOR HYDRANT TEE DETAIL

N.T.S.

VERTICAL ELEVATIONS BASED ON: NAVD-88

WALDROP ENGINEERING
CIVIL ENGINEERING & LAND DEVELOPMENT CONSULTANTS
28100 BONITA GRANDE DRIVE - SUITE 305 BONITA SPRINGS, FL 34135
P: 239-405-7777 F: 239-405-7899 EMAIL: info@waldropengineering.com

PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

AVE MARIA UTILITY COMPANY WATER DETAILS (A)

PLAN REVISIONS	
1	03/01/17 REVISED PER COLLIER COUNTY AND AMUC COMMENTS
REV00 <<SUBMITTED / BID SET>> 01/13/17	

NOT TO SCALE

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 41

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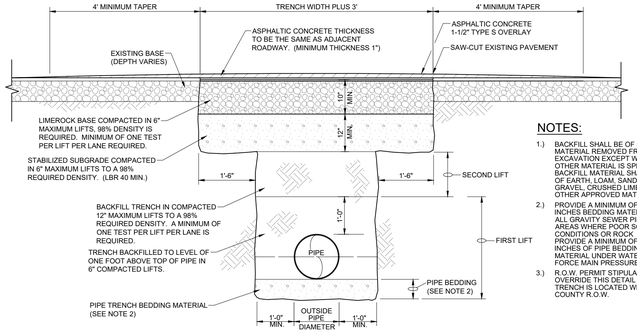


NOTES:

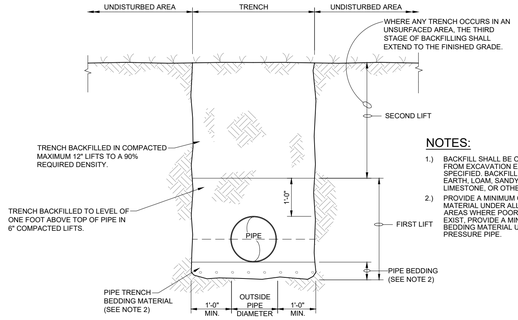
1.) BACKFILL SHALL BE OF SUITABLE MATERIAL REMOVED FROM EXCAVATION EXCEPT WHERE OTHER MATERIAL IS SPECIFIED. BACKFILL MATERIAL SHALL CONSIST OF EARTH, LOAM, SANDY CLAY, GRAVEL, CRUSHED LIMESTONE, OR OTHER APPROVED MATERIAL.

2.) PROVIDE A MINIMUM OF SIX (6) INCHES BEDDING MATERIAL UNDER ALL GRAVITY SEWER PIPING. IN AREAS WHERE POOR SOIL CONDITIONS OR ROCK EXIST, PROVIDE A MINIMUM OF SIX (6) INCHES OF PIPE BEDDING MATERIAL UNDER WATER OR FORCE MAIN PRESSURE PIPE.

3.) R.O.W. PERMIT STIPULATIONS OVERRIDE THIS DETAIL WHERE TRENCH IS LOCATED WITHIN A COUNTY R.O.W.

PAVED AREA TRENCH RESTORATION DETAIL

N.T.S.



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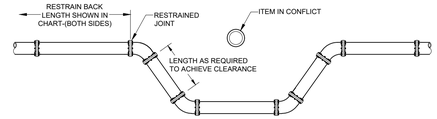
UNPAVED AREA TRENCH RESTORATION DETAIL

N.T.S.



NEW & EXISTING PIPE - RESTRAINED JOINT

NOTES:

1.) PROVIDE RESTRAINED JOINTS AT CHANGES IN DIRECTION OF ALL PIPE.

2.) ALL PIPE JOINTS WITHIN THE DISTANCE (FEET) SHOWN IN THE FOLLOWING TABLE FROM THE PI OF THE FITTING SHALL BE RESTRAINED TYPE.

3.) THESE DISTANCES (FEET) SHALL APPLY TO LENGTHS OF PIPE ON EACH SIDE OF THE FITTING.

4.) CONSIDER DEAD ENDS EQUIVALENT 90 DEGREE BENDS.

5.) TEE SHALL BE RESTRAINED ON BRANCH BASED ON SAME DISTANCE AS 90 DEGREE BEND OF THE SIZE OF THE BRANCH.

RESTRAINED JOINT PIPE DISTANCES FOR NEW PIPE (IN FEET)

PIPE SIZE	90° BEND	45° BEND	11¼° BEND	22½° BEND
4"	44	18	9	4
6"	62	26	12	6
8"	74	31	15	7
10"	87	36	17	9
12"	100	41	20	10
16"	123	51	24	12
20"	143	59	29	14
24"	162	67	32	16
30"	184	76	37	18
36"	207	86	41	20

PIPE CONFLICT DETAIL

N.T.S.

NOTES:

1.) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPERATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

2.) AT THE UTILITY CROSSINGS ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINES. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAIN, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

3.) VERTICAL CLEARANCE LESS THAN 12 INCHES SHALL NOT BE ALLOWED.

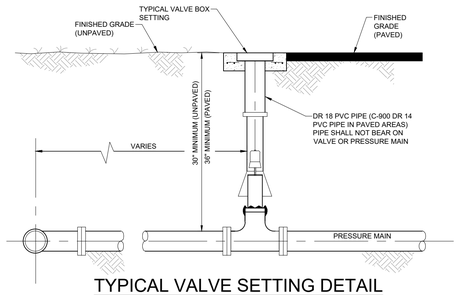
4.) WATER MAINS AND SANITARY SEWER, STORM SEWER, OR IRRIGATION (EFFLUENT) MAINS SHALL BE IN SEPARATE TRENCHES.

5.) WATER MAINS UNDER PAVEMENT SHALL BE DESIGNED TO HAVE 36-INCHES MINIMUM COVER.

6.) WHERE 6' MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND STORM SEWER CANNOT BE MAINTAINED, WATER MAINS SHALL BE THICKNESS CLASS 200 AWWA C-900 PVC (DR18, C-905 PVC FOR PIPES GREATER THAN 12" IN DIAMETER), WITH NO LESS THAN 3' MINIMUM HORIZONTAL SEPARATION FROM OUTSIDE EDGE OF WATER MAIN TO OUTSIDE EDGE OF STORM SEWER.

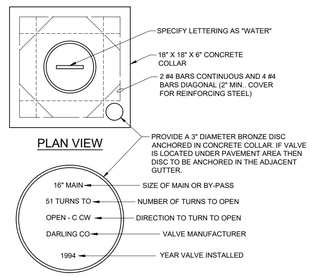
CROSSOVER DETAIL

N.T.S.



TYPICAL VALVE SETTING DETAIL

N.T.S.



PLAN VIEW

TYPICAL VALVE BOX SETTING DETAIL

N.T.S.

VERTICAL ELEVATIONS BASED ON: NAVD-88

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PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

AVE MARIA UTILITY COMPANY WATER DETAILS (B)

PLAN REVISIONS

Δ	03/01/17	REVISED PER COLLIER COUNTY AND AMUC COMMENTS

REV00 <<SUBMITTED / BID SET>> 01/13/17

SCALE AS SHOWN

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 68421

SET NUMBER: 133-59-01

SHEET : 42

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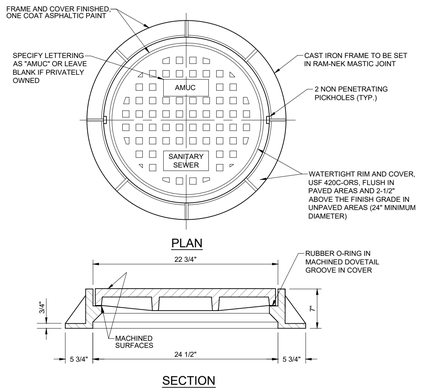
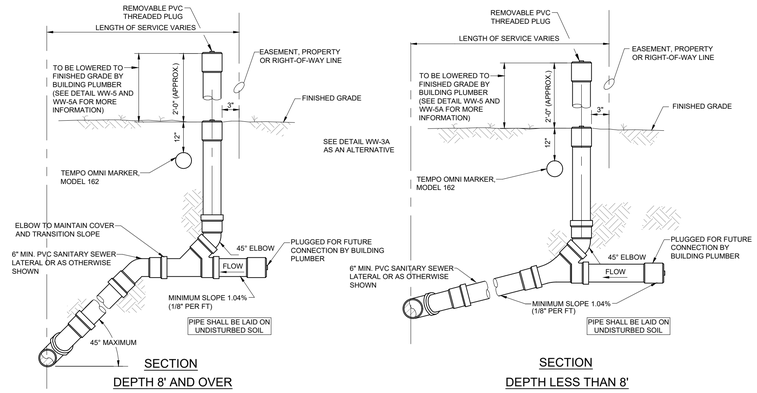


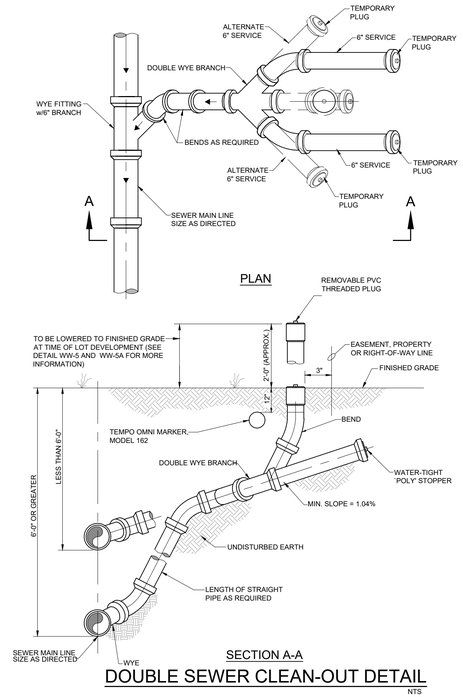
MANHOLE RING & COVER DETAIL

NTS



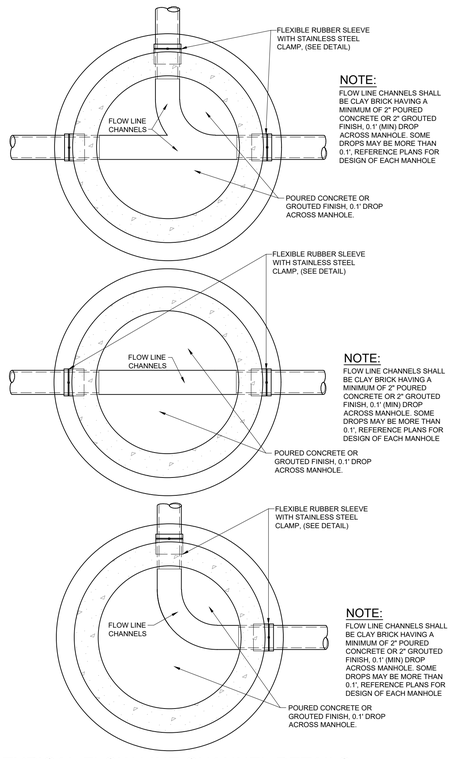
SEWER CONNECTION DETAILS
PROPERTY, R/W OR EASEMENT LINE

NTS



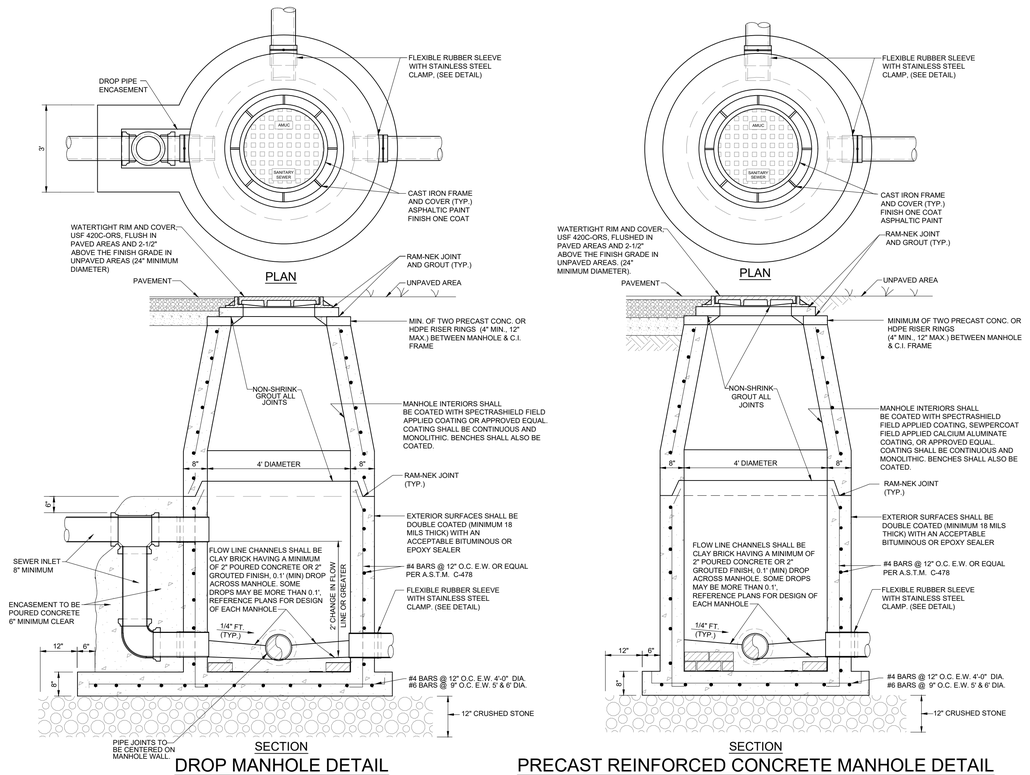
DOUBLE SEWER CLEAN-OUT DETAIL

NTS



TYPICAL FLOW LINE CHANNEL DETAILS

NTS



DROP MANHOLE DETAIL

NTS

PRECAST REINFORCED CONCRETE MANHOLE DETAIL

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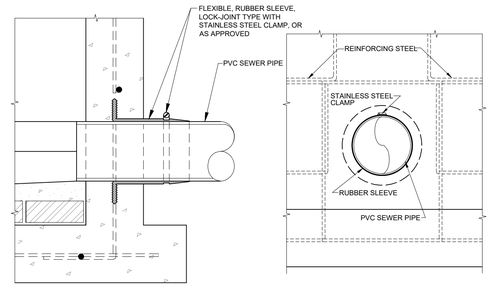
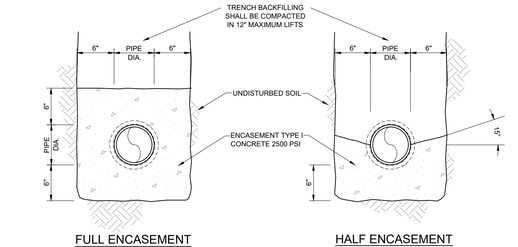


FLEXIBLE RUBBER SLEEVE DETAIL

NTS



SEWER PIPE ENCASEMENT DETAILS

NTS

VERTICAL ELEVATIONS BASED ON: NAVD-88

WALDROP ENGINEERING
CIVIL ENGINEERING & LAND DEVELOPMENT CONSULTANTS
25100 BONITA GRANDE DRIVE - SUITE 305 BONITA SPRINGS, FL 34135
P: 239-405-7777 F: 239-405-7899 EMAIL: info@waldropengineering.com

PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

AVE MARIA UTILITY COMPANY SANITARY SEWER DETAILS

PLAN REVISIONS	
1	03/01/17 REVISED PER COLLIER COUNTY AND AMUC COMMENTS
	REV00 = <SUBMITTED / BID SET> = 01/13/17

NOT TO SCALE

FLORIDA CERTIFICATE OF AUTHORIZATION #6636

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RESTRAINT TABLE

PIPE SIZE	HORIZONTAL BENDS 90° BENDS Lr (FT.)	45° BENDS Lr (FT.)	22.5° BENDS Lr (FT.)	11.25° BENDS Lr (FT.)	VERTICAL OFFSETS 45° BENDS (SEE NOTE 2) Lhs (FT.)	Lls (FT.)	DEAD ENDS Lr (FT.)
4"	27	11	5	3	31	8	60
6"	37	15	7	4	43	11	84
8"	48	20	10	5	57	15	110
10"	57	24	11	6	68	17	131
12"	57	24	11	6	68	19	131
16"	58	24	12	6	55	19	106
20"	70	29	14	7	67	23	129
24"	81	33	16	8	78	27	150

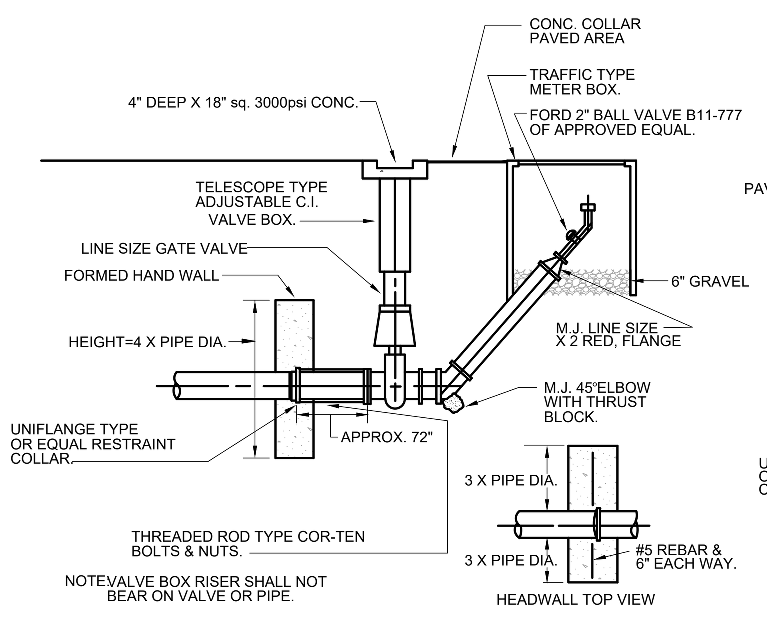
TEES RUN SIZE	BRANCH SIZE	Lrn (FT.)	Lbr (FT.)
4"	4"	10	11
6"	6"	10	34
	4" OR LESS	10	FITTING ONLY
8"	8"	10	59
	6"	10	17
	4" OR LESS	10	FITTING ONLY
10"	10"	10	80
	8"	10	45
	6" OR LESS	10	FITTING ONLY
12"	12"	10	79
	10"	10	49
	8"	10	15
	6" OR LESS	10	FITTING ONLY
16"	16"	10	73
	12"	10	38
	10"	10	16
	8" OR LESS	10	FITTING ONLY
20"	20"	10	95
	16"	10	63
	12"	10	24
	10" OR LESS	10	FITTING ONLY
24"	24"	10	116
	20"	10	87
	16"	10	53
	12"	10	10
	10" OR LESS	10	FITTING ONLY

REDUCERS (SEE NOTES) SIZE	L(A) (FT.)	L(B) (FT.)
6 x 4	64	43
8 x 6	60	46
8 x 4	153	79
10 x 8	55	44
10 x 6	133	81
12 x 10	46	38
12 x 8	104	69
16 x 12	61	45
16 x 10	103	63
20 x 16	58	45
20 X 12	139	81
24 x 20	55	45
24 x 16	128	82

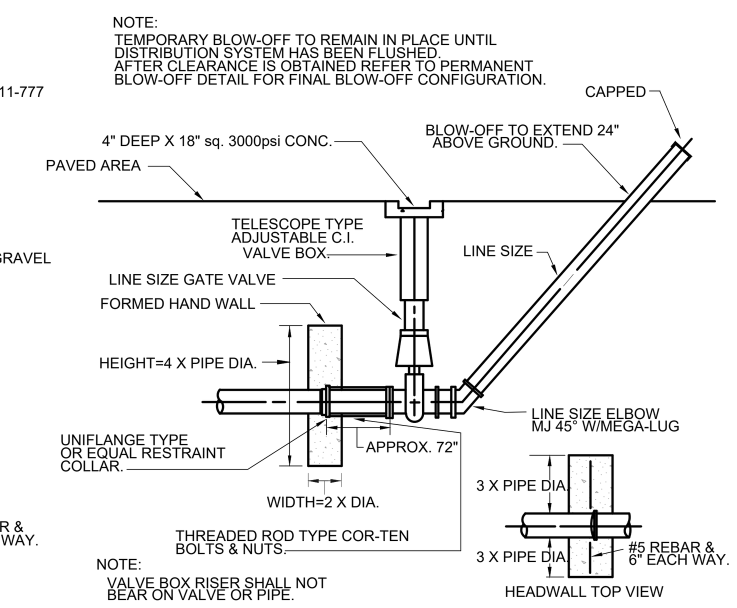
RESTRAINTS SHALL BE UNIFLANGE, MEGALUG OR APPROVED EQUAL

NOTES:

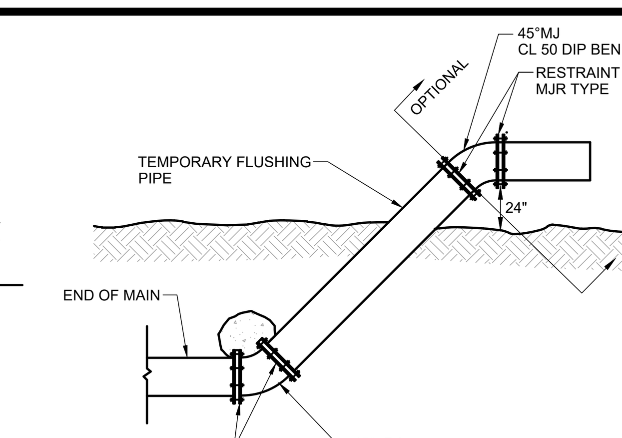
1. LENGTHS SHOWN ON THIS TABLE ARE TO BE INTERPRETED AS FOLLOWS :
   Lhs = RESTRAINED LENGTH FROM HIGH SIDE FITTING OF A VERT. BEND
   Lls = RESTRAINED LENGTH FROM LOW SIDE FITTING OF VERT. BEND
   Lr = RESTRAINED LENGTH ON BOTH SIDES FROM FITTING
   Lrn = MINIMUM LENGTH TO FIRST JOINT OF RUN ON BOTH SIDES
   Lbr = RESTRAINED LENGTH REQUIRED ON BRANCH FROM FITTING
   L(A) = LENGTH OF PIPE ON SMALL SIDE FREE OF FITTING
   L(B) = RESTRAINED LENGTH ON LARGE SIDE OF REDUCER
2. A SAFETY FACTOR = 2.5 IS USED FOR VERTICAL OFFSETS TO COMPENSATE FOR SATURATED SOIL CONDITIONS. A SAFETY FACTOR = 2.0 IS USED FOR ALL OTHER CASES.
3. L(A) AND L(B) ABOVE ARE TWO OPTIONS FOR PROVIDING THE REQUIRED THRUST RESTRAINT FOR THE FITTING. EITHER L(A) LENGTH OF PIPE FREE OF FITTINGS (BENDS, TEES, REDUCERS OR VALVES) ON THE SMALL SIDE OF THE REDUCER WILL PROVIDE THE REQUIRED RESTRAINT OR L(B) LENGTH CAN BE RESTRAINED ON ON THE LARGE SIDE OF THE FITTING.
4. THE FOLLOWING ARE ASSUMED :
   4" - 10" PIPE HAS 30" MIN. COVER
   12" - 24" PIPE HAS 36" MIN. COVER
   4" - 24" PIPE IS PVC
5. VALVES SHALL BE RESTRAINED ON EITHER SIDE OF THE FITTING AS A MINIMUM. IN LINE VALVES SHALL HAVE NO FITTINGS WITHIN THE LENGTHS SHOWN ON THIS TABLE FOR THE SAME SIZE DEAD END. IN CASES WHERE THIS LENGTH CAN NOT BE PROVIDED FREE OF FITTINGS, ADDITIONAL RESTRAINT SHALL BE REQUIRED AS APPROVED BY ENGINEER.
6. REFER TO RESTRAINTS IN SPECS



BLOW-OFF DETAIL



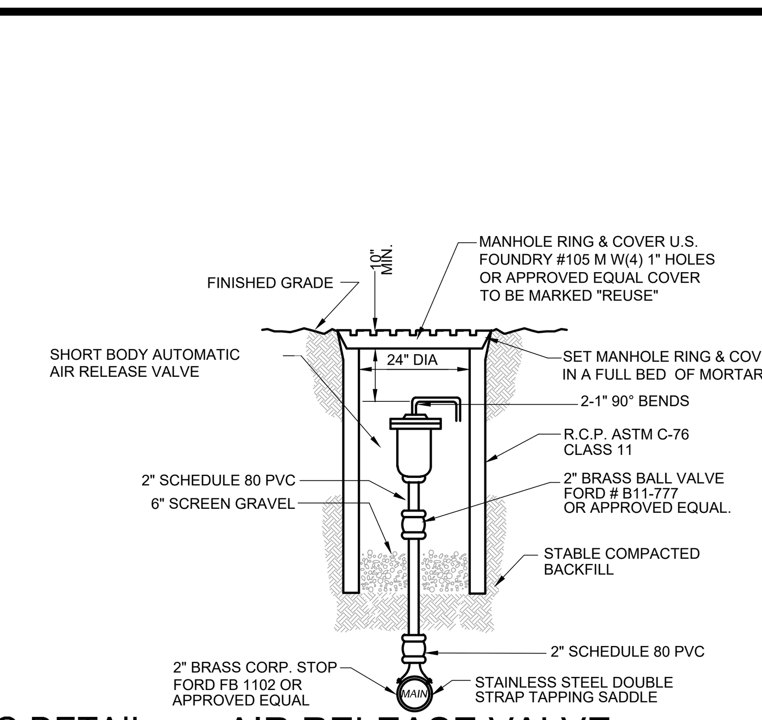
TEMPORARY BLOW OFF



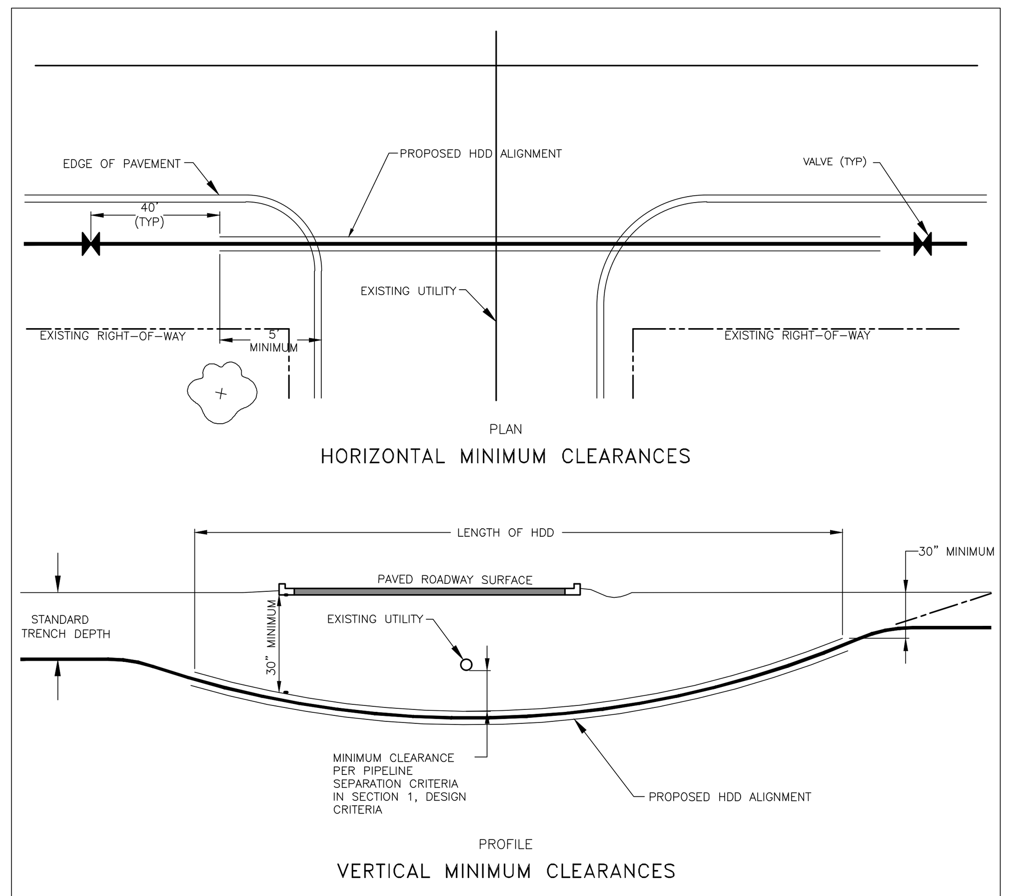
NOTES:

1. FLUSHING DETAIL TO BE USED ON LINES > 8" DIAMETER.
2. FLUSHING PIPE SHALL BE THE SAME DIAMETER AS MAIN.
3. AFTER FLUSHING HAS BEEN COMPLETED, CONTRACTOR SHALL INSTALL BLOW OFF PER STANDARD DETAIL.
4. CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE FOR FLUSHED WATER.
5. SEPERATE CONCRETE FROM BOLTS WITH 1 LAYER POLY-FILM.
6. RESTRAINED BY MJR IN LIEU OF THRUST BLOCKS

IRRIGATION / REUSE MAIN FLUSHING DETAIL



AIR RELEASE VALVE



HDD INSTALLATION NOTES:

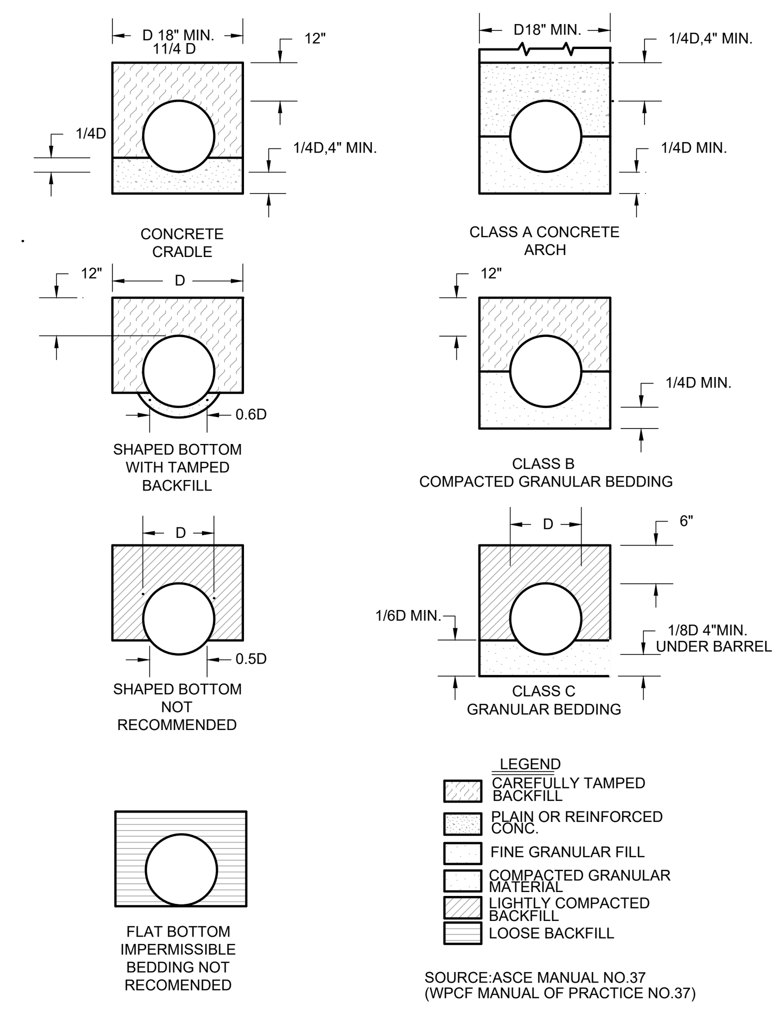
1. ALL WORK SHALL BE IN ACCORDANCE WITH SECTIONS 1 AND 099723 OF THE COLLIER COUNTY UTILITIES STANDARDS MANUAL.
2. ALL HDD INSTALLATION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE FLORIDA D.O.T. UTILITY ACCOMMODATIONS MANUAL AND THE COLLIER COUNTY UTILITIES STANDARDS AND PROCEDURES ORDINANCE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED AGENCIES AND COORDINATION WITH ALL UTILITIES PRIOR TO CONSTRUCTION.
4. ALL CONSTRUCTION MATERIALS, INCLUDING DRILLING FLUID, SHALL BE REMOVED FROM THE SITE PRIOR TO RESTORATION OF DISTURBED AREAS.
5. ALL RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE COLLIER COUNTY UTILITIES STANDARD MANUAL.
6. EXCAVATIONS SHALL BE RESTORED IN ACCORDANCE WITH THE COLLIER COUNTY UTILITIES STANDARD MANUAL AND STANDARD DETAILS FOR TRENCH RESTORATION.
7. CASING DIAMETER SHALL BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
8. NO SPACERS REQUIRED.
9. ALLOW 40' BETWEEN VALVE AND END OF CASING. DISTANCE LESS THAN 40' REQUIRES APPROVAL OF DEVIATION. THE 40' LENGTH SHALL NOT INCLUDE BRANCHES/TEES IN THE PIPING BETWEEN VALVE AND END OF CASING.
10. VALVES AT EACH END OF THE HDD AND CASING FOR THE HDD ARE REQUIRED FOR NUMBERED COUNTY ROADS, STATE ROADS AND AT INTERSECTIONS WITH NUMBERED COUNTY ROADS AND STATE ROADS.

TYPICAL HORIZONTAL DIRECTIONAL DRILL (HDD) UNDER A ROADWAY

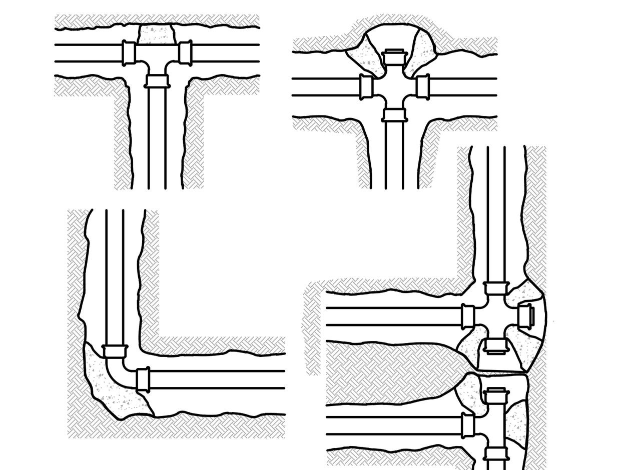
NTS

G–8

REVISED: AUGUST 2008

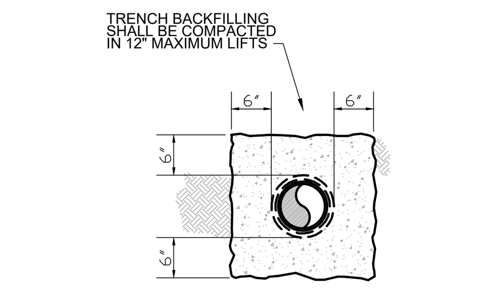


PIPE BEDDING

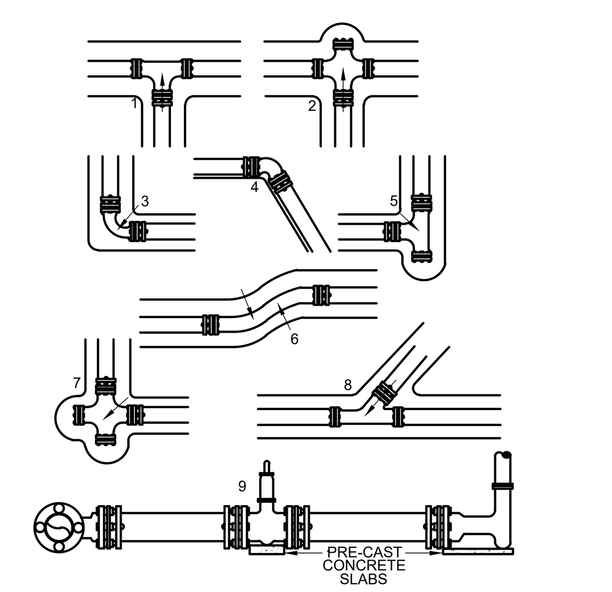


1. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE ALL LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL.
2. ON TEES AND BENDS EXTEND THRUST BLOCK LENGTH PLACE BOARD IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCK. KEEP M.J. BELLS AND BOLTS FREE FROM CONCRETE WITH VISQUEEN.
3. BACKFILL SHALL CONSIST ENTIRELY OF CLEAN SAND AND ROCK FRAGMENTS. ANY MUCK ENCOUNTERED SHALL BE REMOVEED AND REPLACED WITH ACCEPTABLE MATERIAL.
4. CONCRETE FOR THRUST BLOCKS SHALL HAVE A MINIMUM STRENGTH OF 2500 P.S.I AFTER 28 DAYS.
5. THRUST BLOCK SITES COMPUTED AT 150 P.S.I. PRESSURE AND 2000 P.S.F. SOIL BEARING CAPACITY.

THRUST BLOCK DETAILS

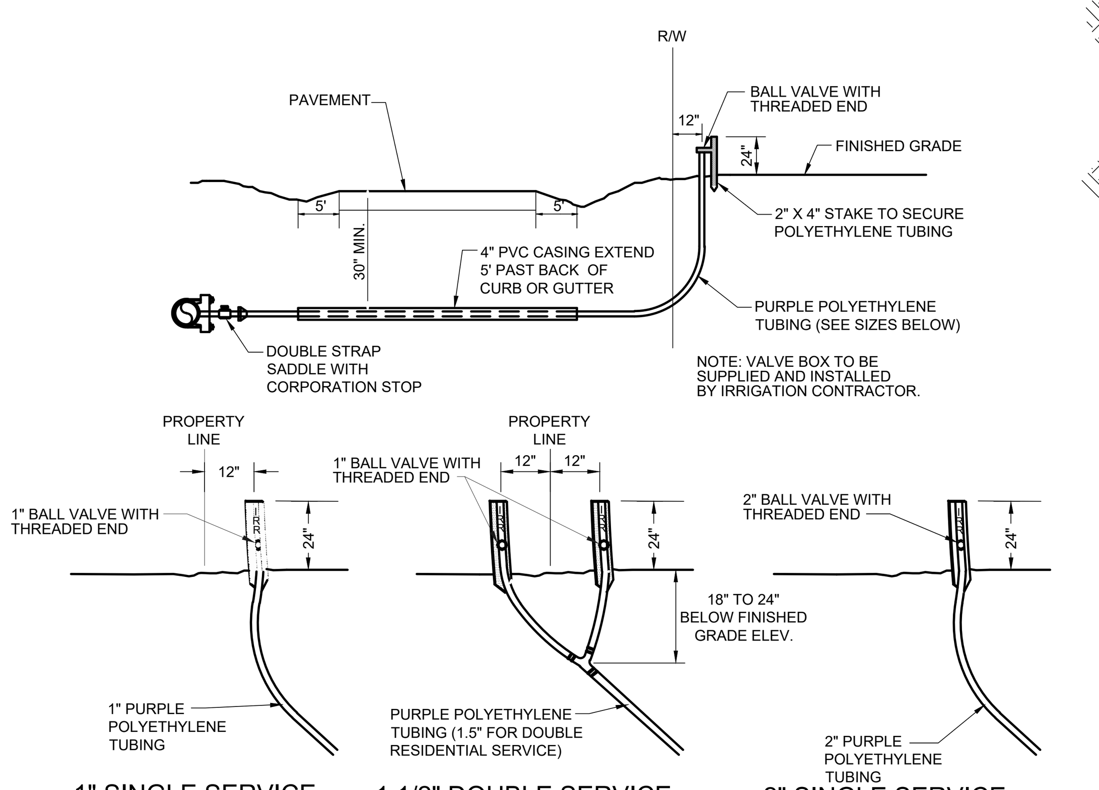


CONCRETE ENCASEMENT



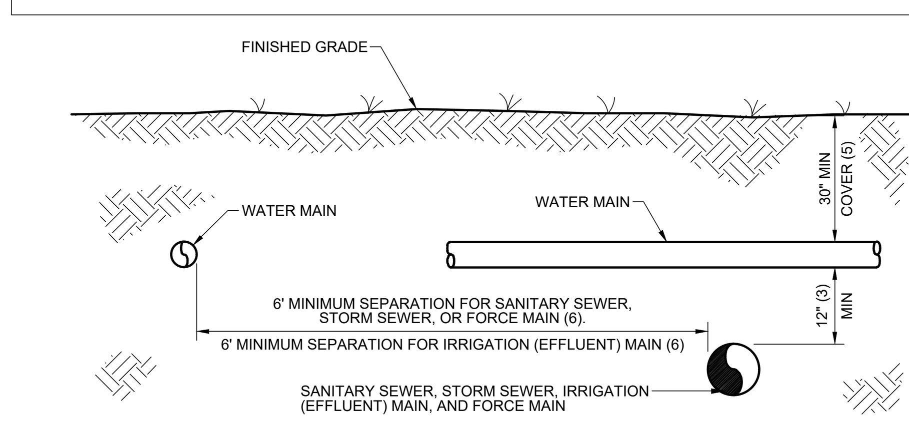
1. THRU LINE CONNECTION,	5. DIRECTION CHANGE, TOO USED ELBOW
2. THRU LINE CONNECTION, CROSS USED AS	6. DIRECTION CHANGE
3. DIRECTION CHANGE, ELBOW	7. DIRECTION CHANGE, CROSS USED AS ELBOW
4. DIRECTION CHANGE, VERTICLE, BEND	8. THRU LINE CONNECTION,
	9. HYDRANT RUNOUT

THRUST RESTRAINING



IRRIGATION SERVICES

N.T.S.

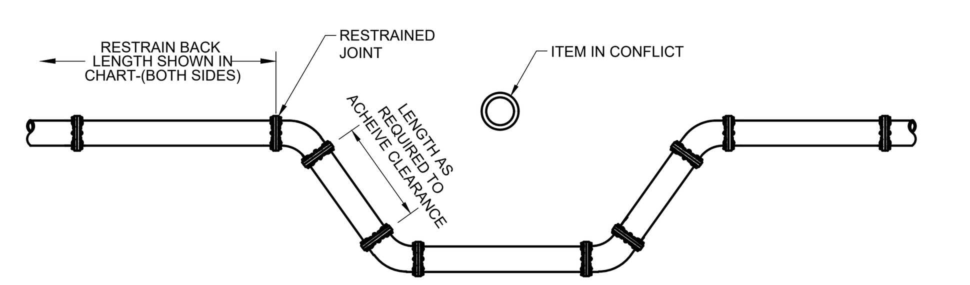


NOTES:

1. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.
2. AT THE UTILITY CROSSINGS ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINES. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAIN, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
3. VERTICAL CLEARANCE LESS THAN 12 INCHES SHALL NOT BE ALLOWED.
4. WATER MAINS AND SANITARY SEWER, STORM SEWER, OR IRRIGATION (EFFLUENT) MAINS SHALL BE IN SEPARATE TRENCHES.
5. WATER MAINS UNDER PAVEMENT SHALL BE DESIGNED TO HAVE 36-INCHES MINIMUM COVER.
6. WHERE 6' MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND STORM SEWER CANNOT BE MAINTAINED, WATER MAINS SHALL BE THICKNESS CLASS 200 AWWA C-900 PVC (DR18, C-905 PVC FOR PIPES GREATER THAN 12" IN DIAMETER), WITH NO LESS THAN 3' MINIMUM HORIZONTAL SEPARATION FROM OUTSIDE EDGE OF WATER MAIN TO OUTSIDE EDGE OF STORM SEWER.

CROSSOVER DETAIL

N.T.S.



NEW & EXISTING PIPE - RESTRAINED JOINT

NOTES:

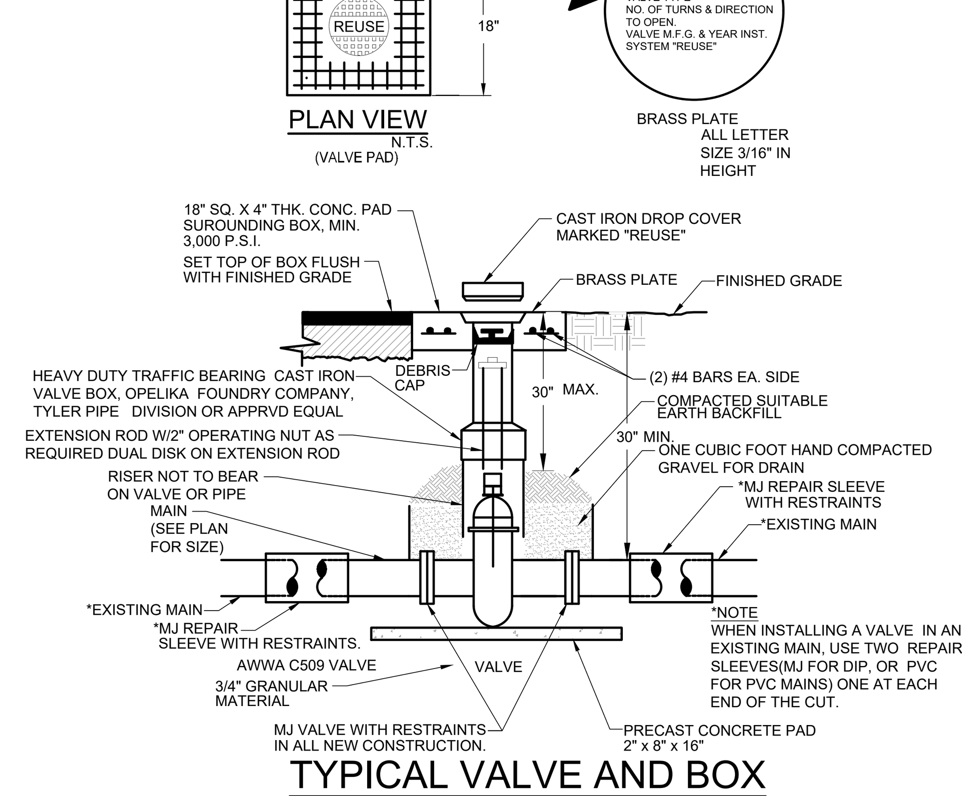
1. PROVIDE RESTRAINED JOINTS AT CHANGES IN DIRECTION OF ALL PIPE.
2. ALL PIPE JOINTS WITHIN THE DISTANCE (FEET) SHOWN IN THE FOLLOWING TABLE FROM THE PI OF THE FITTING SHALL BE RESTRAINED TYPE.
3. THESE DISTANCES (FEET) SHALL APPLY TO LENGTHS OF PIPE ON EACH SIDE OF THE FITTING.
4. CONSIDER DEAD ENDS EQUIVALENT 90 DEGREE BENDS.
5. TEE SHALL BE RESTRAINED ON BRANCH BASED ON SAME DISTANCE AS 90 DEGREE BEND OF THE SIZE OF THE BRANCH.

RESTRAINED JOINT PIPE DISTANCES FOR NEW PIPE (IN FEET)

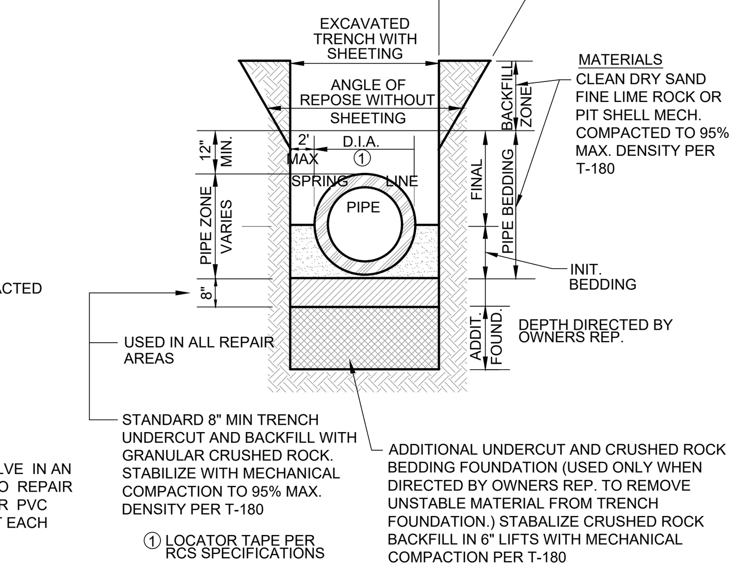
PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4"	44	18	9	4
6"	62	26	12	6
8"	74	31	15	7
10"	87	36	17	9
12"	100	41	20	10
16"	123	51	24	12
20"	143	59	29	14
24"	162	67	32	16
30"	184	76	37	18
36"	207	86	41	20

PIPE CONFLICT DETAIL

N.T.S.



TYPICAL VALVE AND BOX



TRENCH CROSS SECTION

VERTICAL ELEVATIONS BASED ON: NAVD-88

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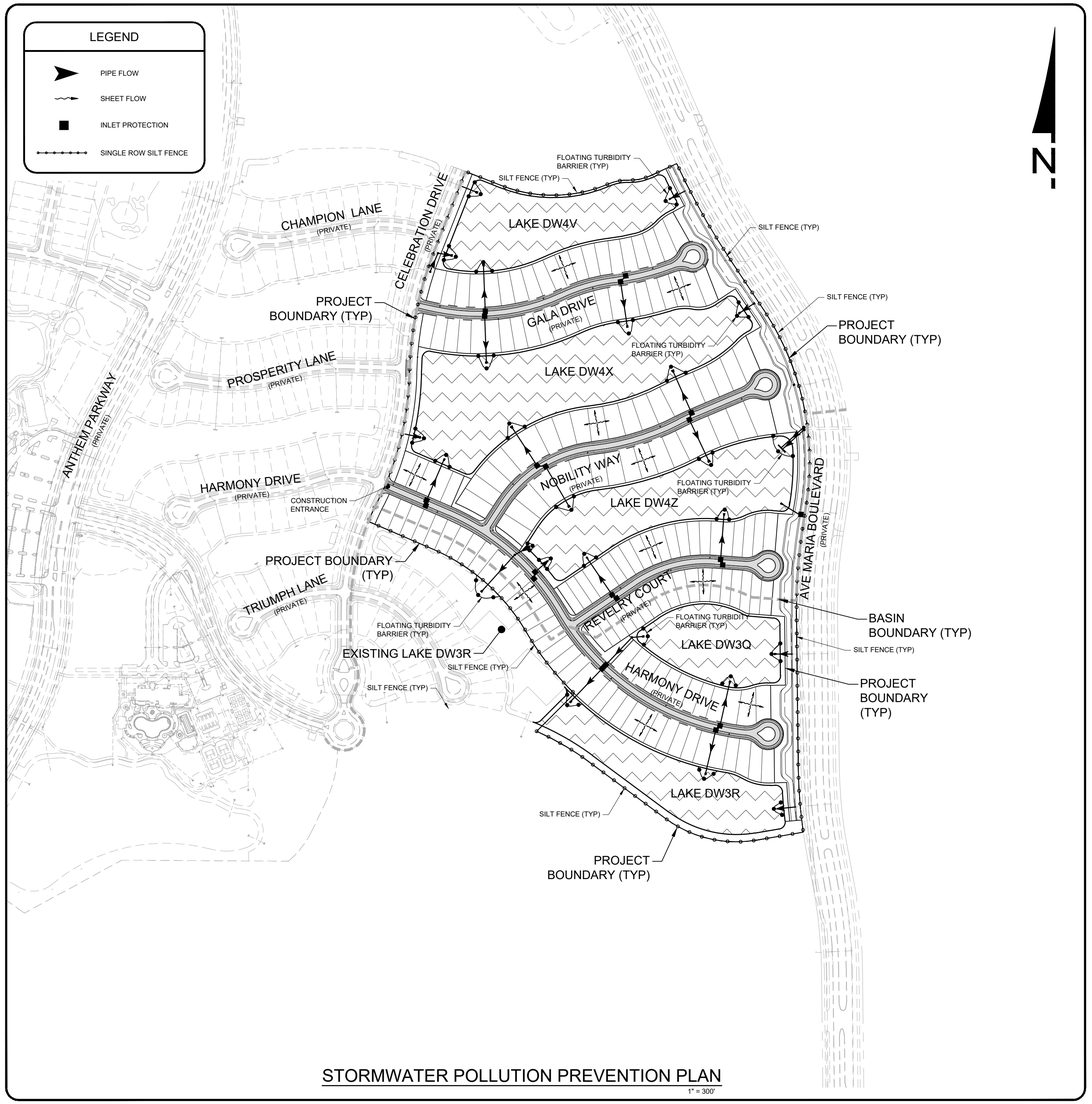
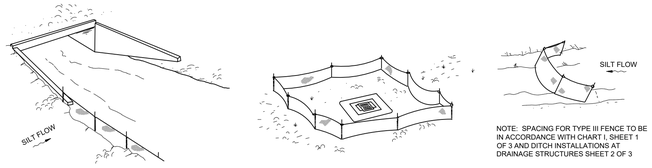


STORMWATER POLLUTION PREVENTION PLAN

1" = 300'



TYPE III SILT FENCE

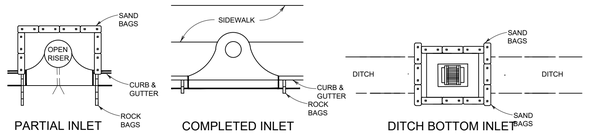
TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS

TYPE III SILT FENCE

NOTE: SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHART I, SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

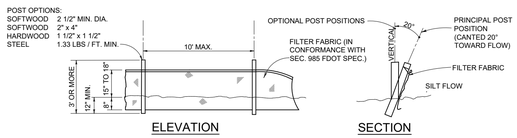
SILT FENCE APPLICATIONS



PARTIAL INLET COMPLETED INLET DITCH BOTTOM INLET

ANCHOR BALES WITH 2 - 2" x 2" x 4' STAKES PER BALE

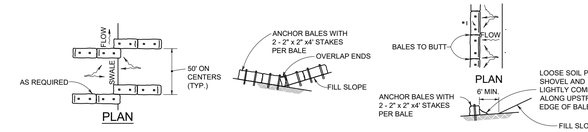
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



ELEVATION SECTION

NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF)

TYPE III SILT FENCE



PLAN ELEVATION PLAN

ELEVATION

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

ELEVATION

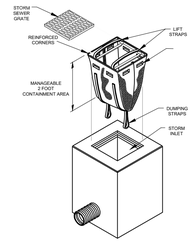
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES

BALED HAY OR STRAW BARRIERS AND SILT FENCES

SURFACE WATER POLLUTION PREVENTION NOTES

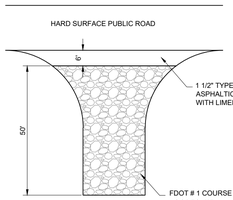
1. INSTALL EROSION CONTROL DEVICES AROUND THE PROJECT BOUNDARY AND AS NEEDED TO PREVENT SOIL FROM LEAVING THE SITE.
2. EROSION CONTROL DEVICES WILL BE BUILT TO PREVENT SOIL FROM LEAVING THE SITE AND SHALL BE INSTALLED PRIOR TO ANY SITE GRUBBING AND/OR DEMOLITION
3. STABILIZE ALL PERIMETER BERM AND SLOPES TO PROTECT AGAINST EROSION
4. WRAP INLET GRATES WITH FILTER FABRIC UNTIL THE DRAINAGE AREA DRAINING TO EACH INLET IS STABILIZED WITH EITHER PAVEMENT OR SOD.
5. MAINTAIN SILT FENCE, HAY BALES, FILTER FABRIC, AND ALL OTHER EROSION CONTROL DEVICES UNTIL STABILIZATION IS ESTABLISHED TO PREVENT SOIL FROM LEAVING THE SITE.
6. INSTALL ALL EROSION CONTROL DEVICES AS PER 2019 F.D.O.T. STANDARD INDEX.
7. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, STABILIZE THE EFFECTIVE AREA BY USING WETTING OR OTHER ACCEPTABLE METHODS.
8. REMOVE ALL SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF THE DEPTH OF THE SILTATION CONTROL DEVICE.
9. REMOVE SILTATION ACCUMULATIONS IN ANY DRAINAGE PIPE AFFECTED BY CONSTRUCTION ACTIVITIES ON THE SITE PRIOR TO COMPLETION OF CONSTRUCTION.
10. MAINTAIN ALL BERM ELEVATIONS DURING CONSTRUCTION.
11. LOCATION OF EROSION CONTROL DEVICES MAY BE ADJUSTED DUE TO FIELD CONDITIONS.
12. DETAILS REPRESENT TYPICAL MEASURES FOR THE SITUATION DEPICTED. BASED ON SITE CONDITIONS ALL DETAILS MAY NOT BE APPLICABLE TO THE PROJECT. USE APPROPRIATE DETAIL THE SITUATION DEPICTED IN ENCOUNTERED ON SITE.
13. BARRIERS ARE TO BE HIGHLY VISIBLE WITH BRIGHTLY COLORED ALL-WEATHER MESH MATERIAL OR EQUIVALENT, AND THE STAKES SHALL BE NO MORE THAN 10' APART.



DANDY SAC MAY BE SUBSTITUTED FOR SIMILAR PRODUCT . TM

DANDYSACK

NTS

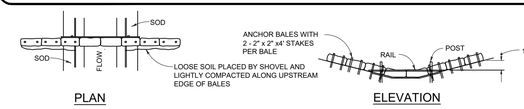


* A TOTAL OF 250' OF DUST FREE SURFACE SHALL BE MAINTAINED BY EITHER OF THE FOLLOWING:

1. LIMEROCK BASE MAY BE WATERED TO PREVENT DUST
2. LIMEROCK BASE MAY BE PRIMED
3. CONSTRUCTION ROADS MAY BE PAVED WITH ASPHALTIC CONCRETE

GRAVEL CONSTRUCTION ENTRANCE

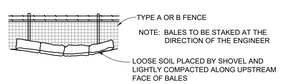
NTS



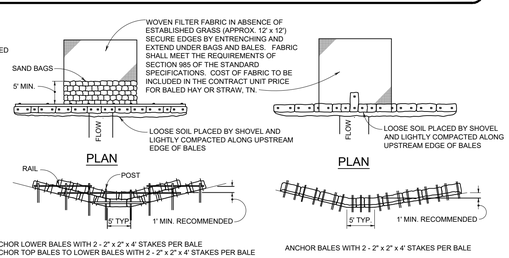
PLAN ELEVATION

SPACING: BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH CHART I, SHEET 1 OF 3.

BARRIER FOR PAVED DITCH



BALES BACKED BY FENCE



PLAN PLAN

ANCHOR LOWER BALES WITH 2 - 2" x 2" x 4' STAKES PER BALE
ANCHOR TOP BALES TO LOWER BALES WITH 2 - 2" x 2" x 4' STAKES PER BALE

ELEVATION

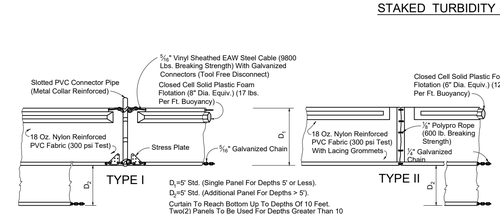
ANCHOR BALES WITH 2 - 2" x 2" x 4' STAKES PER BALE

ELEVATION

APPLICATION AND SPACING: THE USE OF TYPE I & II BALE BARRIERS SHOULD BE LIMITED TO THE CONDITIONS OUTLINED IN CHART I, SHEET 1 OF 3, INDEX No. 102

TYPE II TYPE I

BARRIER FOR UNPAVED DITCHES



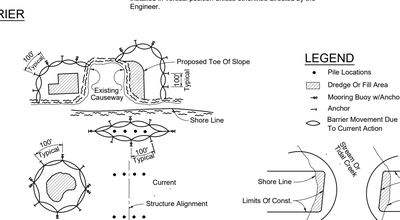
STAKED TURBIDITY BARRIER

Note:

Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) will be at the Contractors option unless otherwise specified in the plans, however payment will be under the pay item(s) established in the plans for Floating Turbidity Barrier and/or Staked Turbidity Barrier. Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.

NOTICE: COMPONENTS OF TYPES ~ AND ~~ MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES ~ AND ~~ SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS



NOTES:

1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
2. Number and spacing of anchors dependent on current velocities.
3. Deployment of barrier around pile locations may vary to accommodate construction operations.
4. Navigation may require segmenting barrier during construction operations.
5. For additional information see Section 104 of the Standard Specifications.

TURBIDITY BARRIER APPLICATIONS

GENERAL NOTES:

1. Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, LF.
2. Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, LF.

TURBIDITY BARRIER

PER F.D.O.T. INDEX 103

WALDROP ENGINEERING
CIVIL ENGINEERING & LAND DEVELOPMENT CONSULTANTS
28100 BONITA GRANDE DRIVE - SUITE 305 BONITA SPRINGS, FL 34135
P: 239-405-7777 F: 239-405-7899 EMAIL: info@waldropengineering.com

PLANS AND PLAT FOR

DEL WEBB NAPLES

PARCELS 209 - 212

CLIENT: PULTE HOME COMPANY, LLC

STORM WATER POLLUTION PREVENTION PLAN AND EROSION CONTROL DETAILS

PLAN REVISIONS	REV00 <<SUBMITTED / BID SET>> 01/13/17
A 02/01/17	REVISED PER COLLIER COUNTY AND AMEC COMMENTS
B 10/23/18	BID SET
C 10/18/19	REVISED PER ENGINEER AND CLIENT

SCALE AS SHOWN

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

JEREMY H. ARNOLD, P.E.
FL LICENSE NO. 66421

SET NUMBER: 133-59-01

SHEET : 45

VERTICAL ELEVATIONS BASED ON: NAVD-88

B:\Projects\133-59 (Ave Maria) Del Webb Naples Parcels 209-212\Drawings-Exhibits\133-59-01 PPL\Current Plans\133590145.dwg
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