

NORTH COUNTY ROAD DRAINAGE IMPROVEMENTS

TOWN OF PALM BEACH, FLORIDA

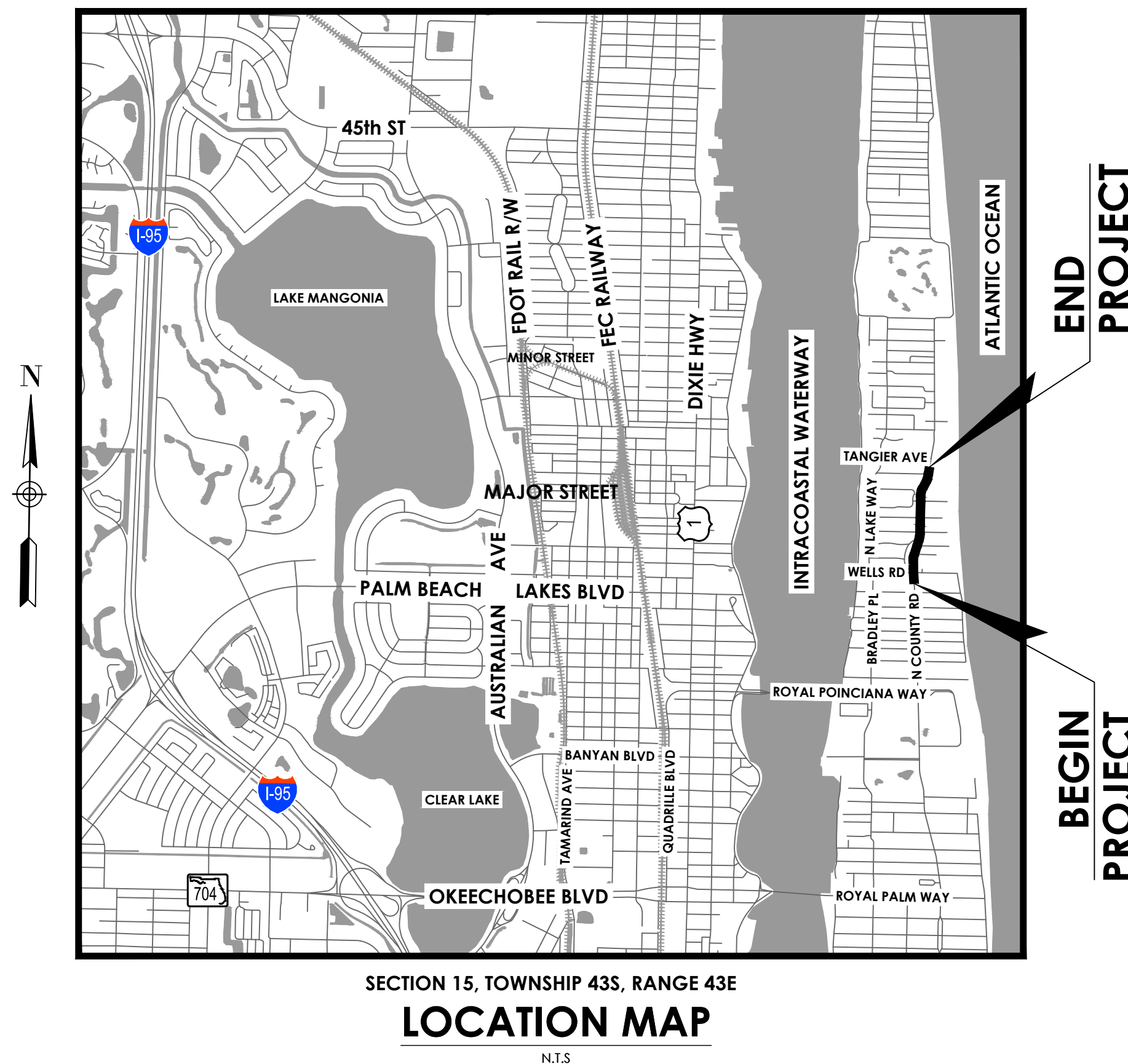
FINAL SUBMITTAL FOR DEVELOPMENT REVIEW APPLICATION

DATE OF ISSUE: 12/22/2022

INDEX OF DRAWINGS		
SHT #	DWG #	SHEET TITLE
01	COV-1	COVER SHEET
02	GN-1	GENERAL NOTES
03	SC-1	SURVEY CONTROL PLAN
04	KEY-1	KEY SHEET
05	TYP-1	TYPICAL SECTIONS
06-08	DEM-1 - DEM-3	EXISTING AND DEMOLITION PLAN
09-14	DP-1 - DP-6	DRAINAGE IMPROVEMENTS PLAN AND PROFILE
15-17	SS-1 - SS-3	STRIPING AND SIGNAGE PLAN
18-21	RZ-1 - RZ-4	CRITICAL ROOT ZONES FOR TREE PROTECTION
22-24	DET-1 - DET-3	CONSTRUCTION DETAILS

SCOPE OF WORK

- DRAINAGE IMPROVEMENTS
- TRAFFIC SAFETY IMPROVEMENTS
- MEDIAN IMPROVEMENTS



FILE NUMBER: COA-23-010

PROJECTED DATE OF HEARING: 1/18/2022



Town of Palm Beach
Public Works Department
951 Okeechobee Road
West Palm Beach, FL 33401

TOWN MAYOR
Danielle H. Moore

TOWN COUNCIL MEMBERS
Margaret A. Zeidman, President
Bobbie Lindsay, President Pro-Tem
Julie Araskog, Member
Lew Crampton, Member
Ted Cooney, Member

Town Manager
Kirk Blouin

Public Works Director
H. Paul Brazil, P.E.

cma
chen moore and associates

500 Australian Avenue South
Suite 850
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com

REGISTRATION

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

DRAWING NUMBER
COV-1
01 OF 24

Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

Plot Date: 12/22/2022 2:06:28 PM Username: abologna Layout Name: GN-1
Folder Path: V:\Projects\2021\21-0431.00039 - north county road drainage improvements\Design\CAD\Sheets Filename: 21-0431.00039 General Notes.dwg

GENERAL NOTES:

1. THE EXISTING CONDITIONS PRESENTED ARE BASED ON TOPOGRAPHIC SURVEY (AVIROM & ASSOCIATES INC, 2020 & 2021) AND AERIAL PHOTOGRAPHY.
2. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXACT LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONICS METHOD AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION AND THE LOCATIONS AND ELEVATIONS OF EXPOSED FEATURES SHALL BE CAREFULLY NOTED ON THE PROJECT RECORD "AS-BUILT" DRAWINGS. ANY AND ALL CONFLICT OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS MUST BE RESOLVED BY THE CONTRACTOR IN AN APPROVED MANNER.
3. 48 HOURS PRIOR TO DIGGING, CONTRACTOR SHALL COORDINATE WITH ALL UNDERGROUND SERVICE COMPANIES TO VERIFY THE LOCATION OF THEIR FACILITIES. ADDITIONALLY, CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT 1-800-432-4770 PRIOR TO DIGGING.
4. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK, ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED. THE CONTRACTOR IS ADVISED TO USE EXTREME CAUTION WHEN CONSTRUCTION IS NEAR OR AROUND ANY ELECTRICAL FACILITIES.
5. THE CONTRACTOR SHALL COORDINATE THE UTILITIES TO ARRANGE RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC., AS NECESSARY TO COMPLETE THE WORK. ANY COST INVOLVED IS TO BE BORNE BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL MAINTAIN A SET OF PLANS WITH CURRENT FIELD CHANGES ACCURATELY MARKED AND SHALL DELIVER THESE PLANS TO THE ENGINEER UPON COMPLETION OF CONSTRUCTION. THE CURRENT MARKINGS SHALL BE REVIEWED WITH THE ENGINEER DAILY, OR AS NEEDED, TO ASSURE THAT THEY BOTH AGREE THAT THE MARK-UPS REFLECT THE ACTUAL "AS-BUILT" CONDITIONS. THE CONTRACTOR WILL PREPARE PROJECT RECORD DRAWINGS AT THE CONCLUSION OF THE PROJECT BASED ON THE MARK-UP DRAWINGS AND TIES.
7. ANY U.S.G.S., N.G.S. OR STATE OF FLORIDA MONUMENT OR BENCH WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND DISTRICT LOCATION SURVEYOR.
8. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED.
9. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR IS ADVISED THAT ALL PROPERTIES ADJACENT TO THE PROJECT MAY HAVE UTILITY SERVICES WHICH MAY NOT BE SHOWN IN THE PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND THESE LATERALS SERVICING SAID PROPERTIES MUST BE INCLUDED IN THE BID ITEMS.
11. IF SHEETING, SHORING, OR DEWATERING (INCLUDING WELL POINTS) ARE NECESSARY AND UTILIZED, THE CONTRACTOR MUST MONITOR AND CONTROL ALL WORK THAT MAY CAUSE CRACKING TO ANY ADJACENT BUILDING AND THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY ITS OPERATIONS. THE COST OF THIS WORK WILL BE INCLUDED IN THE RELATED BID ITEM FOR THE WORK BEING DONE.
12. CONTRACTOR SHALL NOTIFY PROPERTY OWNERS 15 DAYS PRIOR TO CONSTRUCTION ON THEIR STREET.
13. IN ALL CASES WHERE THE CONTRACTOR MUST CAUSE AN INTERRUPTION OF EXISTING WATER AND/OR SEWER SERVICES, CONTRACTOR SHALL SUBMIT TO ENGINEER A COMPLETE DESCRIPTION OF THE PROPOSED PROCEDURE AND A TIME SCHEDULE FIVE WORKING DAYS PRIOR TO COMMENCING THE WORK .
14. WHENEVER POSSIBLE, THE CONTRACTOR SHALL MAINTAIN SAFE VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES AND WILL MAINTAIN ACCOMMODATIONS FOR INTERSECTING AND CROSSING TRAFFIC. ROADWAY AND INTERSECTION CLOSURES WILL BE COORDINATED WITH THE TOWN AND THE ENGINEER A MINIMUM OF ONE MONTH IN ADVANCE.
15. ANY PAVEMENT MARKINGS OR SIGNS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED.
16. THE PERMIT PLAN SET MUST BE ON SITE AT ALL TIMES.
17. CONTRACTOR TO PAVE AT ITS OWN RISK IF INSTALLED STORM DRAINAGE HAS NOT BEEN APPROVED BY ENGINEER.
18. MAINTAIN MAXIMUM LONGITUDINAL SLOPE OF 5% AND CROSS SLOPE OF 2% FOR PATHWAYS AND SIDEWALKS.
19. FINAL LOCATION OF RELOCATED MAILBOXES SHALL BE AT ITS EXISTING LOCATION. IF FINAL LOCATION CONFLICTS WITH PROPOSED IMPROVEMENTS, CONTRACTOR MUST COORDINATE WITH ENGINEER.
20. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE DRAWING AND ACTUAL CONDITIONS THAT ARE DISCOVERED PRIOR TO CONSTRUCTION.
21. ALL PROPOSED SWALE SHALL BE GRADED TOWARDS THE EXISTING OR PROPOSED DRAINAGE INLETS. NO GRADE SHALL ALLOW WATER TO POND.
22. CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES LOCATED IN THE SWALE AREAS. CONTRACTOR IS TO COORDINATE WITH THE TOWN OF PALM BEACH AND ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REVIEW THE CRITICAL ROOT ZONE FOR TREE PROTECTION MAP. ALL WORK WITHIN ROOTZONE SHALL BE IN CONFORMANCE WITH ROOT PRUNING NOTE.
23. ALL DISTURBED EXISTING DRIVEWAYS TO BE RESTORED TO EXISTING CONDITIONS OR BETTER.
24. ALL DISTURBED SWALE AREAS SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.
25. ALL INLETS ARE TO RECEIVE 3,000 PSI CONCRETE APRONS REINFORCED WITH FIBER MESH. NEW APRONS ARE TO EXTEND TO THE EDGE OF PAVEMENT. TERMINUS OF THE FLARED END SECTION FROM THE TYPE 'F' CURB AND GUTTER TO INSURE CONVEYANCE OF THE STORMWATER RUNOFF FROM THE GUTTER TO THE CATCH BASIN TO PREVENT EROSION OF THE SWALE AREA.
26. PAVEMENT AND DRIVEWAY RESTORATION ARE TO MATCH EXISTING GRADE UNLESS OTHERWISE NOTED. ALL INTERFACES SHALL BE SAWCUT.
27. ANY EXISTING UTILITIES DAMAGED BY THE ON-GOING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR IN KIND.
28. CONTRACTOR TO PROVIDE DETAILED AS-BUILT SURVEYS THAT CLEARLY DEFINE THE AREAS OF WORK COMPLETED UNDER THIS CONTRACT INCLUDING BUT NOT LIMITED TO ALL RIM ELEVATIONS (EXISTING AND PROPOSED STRUCTURES), ALL INVERTS, BOTTOM OF STRUCTURE, SUFFICIENT SWALE ELEVATIONS TO DEMONSTRATE THAT SWALES DRAIN TO INLETS, LOCATION OF EXFILTRATION TRENCH, LOCATION OF DRIVEWAY RESTORATION, AND RESTORED ASPHALT PAVEMENT.
29. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
30. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY OF POWER LINES.
31. ALL EXISTING MANHOLES, VALVES, ETC. ARE TO BE ADJUSTED TO MATCH PROPOSED ELEVATIONS.

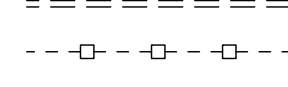
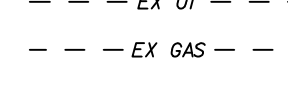
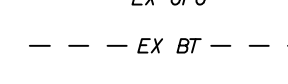
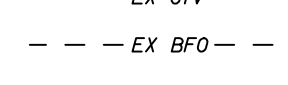
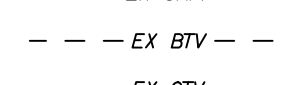
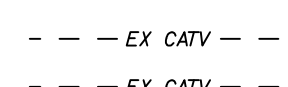
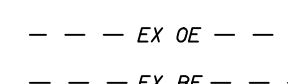
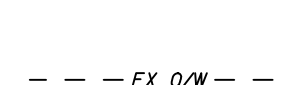
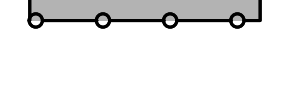
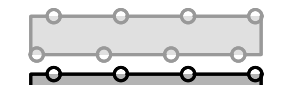
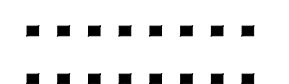
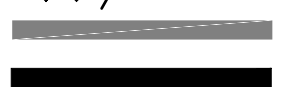


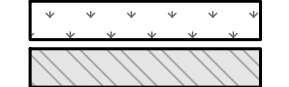
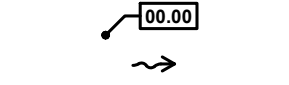


ROOT PRUNING NOTES FOR TREE SLATED TO REMAIN:

- ROOT PRUNING IS THE CUTTING OF ROOTS TO ACCOMMODATE THE PROPOSED INFRASTRUCTURE AND SITE IMPROVEMENTS. IN INSTANCES WHERE ROOT PRUNING IS REQUIRED, THE WORK SHALL BE CONDUCTED BY OR UNDER THE SUPERVISION OF AN ISA CERTIFIED ARBORIST. PRIOR TO ROOT PRUNING, THE TREES SHALL BE EVALUATED BY AN ISA CERTIFIED ARBORIST TO DETERMINE WHETHER THE ROOT CUTTING WILL DESTABILIZE THE TREE OR CAUSE UNACCEPTABLE DAMAGE TO THE TREE.
1. ROOTS MAY NOT BE TORN OFF WITH POWER EQUIPMENT, AND CUT ROOTS SHALL NOT BE LEFT WITH RIPPED, RAGGED OR SHREDDED ENDS. ROOTS MUST BE CLEANLY SEVERED WITH SHARP HAND TOOLS OR POWER ROOT SAWS.
2. PRUNING TRENCHES SHALL BE BACKFILLED WITH NATIVE SOILS, FREE OF DEBRIS.
3. WHEN A ROOT WITH A DIAMETER OF TWO INCHES OR GREATER IS ENCOUNTERED, A FINAL CLEAN CUT SHALL BE MADE WITH A SAW. THE CUT SHALL BE MADE FLUSH WITH THE SIDE OF THE TRENCH CLOSEST TO THE TREE.
4. WHEN ADJACENT TO NEW CURBING, UNCURBED PAVED AREAS, OR AREAS OF GRADE CHANGES, ROOTS SHALL BE CUT NO MORE THAN 18 INCHES TOWARDS THE TREE FROM THE BACK OF THE CURB, THE EDGE OF THE PAVEMENT, OR THE POINT OF INTERSECTION OF OLD AND NEW GRADES, RESPECTIVELY. AFTER ROOT PRUNING, NO EXCAVATION FOR THE INSTALLATION OF FORMS OR FOR ANY OTHER REASON MAY BE PERFORMED ANY CLOSER THAN SIX INCHES OUTSIDE OF THE ROOT PRUNING CUT. THE ROOT PRUNING TRENCH SHALL BE BACKFILLED WITH NATIVE SOIL.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY TREES IN NEED OF SUPPLEMENTAL SUPPORT FOLLOWING ROOT PRUNING. PRIOR TO COMMENCEMENT OF ROOT PRUNING, THE CONTRACTOR SHALL FURNISH A SUPPLEMENTAL SUPPORT PLAN WHICH IDENTIFIES EACH TREE IN NEED OF TEMPORARY SUPPLEMENTAL SUPPORT AND PROPOSE A STAKING/GUYING SYSTEM. THE CONTRACTOR SHALL INSTALL THE APPROVED SUPPORT SYSTEMS IMMEDIATELY FOLLOWING ROOT PRUNING.

DEMOLITION NOTES:

1. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.
2. BEFORE PROCEEDING WITH DEMOLITION OPERATIONS THE CONTRACTOR IS TO DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT, AND DISPOSE OF CHEMICALS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER DANGEROUS MATERIALS.
3. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
4. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR IN-USE FACILITIES WITHOUT PERMISSION FROM OWNER, THE TRIBE AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS AS REQUIRED BY GOVERNING REGULATIONS.
5. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA.
6. ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, BARRIERS, RAILINGS, ETC. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
7. PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING TO REMAIN.
8. ADJACENT IMPROVEMENTS SHALL BE CLEANED OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF DEMOLITION.
9. FOR SELECTIVE DEMOLITION, USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING OR CHOPPING. TEMPORARILY COVER OPENINGS TO REMAIN
10. DEMOLISH CONCRETE IN SMALL SECTIONS. CUT CONCRETE AT JUNCTURES WITH CONSTRUCTION TO REMAIN, USING POWER-DRIVEN MASONRY SAW OR HAND TOOLS; DO NOT USE POWER-DRIVEN IMPACT TOOLS.
11. INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER; HOWEVER, THIS INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER, AND DEPTH OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL ASSIST THE UTILITY COMPANIES, BY EVERY MEANS POSSIBLE, TO DETERMINE SAID LOCATIONS AND THE LOCATIONS OF RECENT ADDITIONS TO THE SYSTEMS NOT SHOWN.
12. REMOVAL, DEMOLITION, HAULING, AND DISPOSAL SHALL COMPLY WITH REGULATIONS BY F.D.E.P., E.P.A., AND ANY OTHER AUTHORITY HAVING JURISDICTION.
13. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
14. ALL EXISTING PATHWAY AND STREET LIGHTING WILL REMAIN IN PLACE AND REMAIN IN SERVICE DURING CONSTRUCTION OPERATIONS.

PROPOSED LEGEND



PROPOSED STORM DRAINAGE PIPE

PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH

PROPOSED CATCH BASIN OR INLET

PROPOSED STORM MANHOLE

PROPOSED ELEVATION

PROPOSED SURFACE FLOW ARROW

PROPOSED SOD

FULL DEPTH OVERLAY

FULL DEPTH RECONSTRUCTION

TRENCH EXISTING ROADWAY

EXCAVATION

DEMOLITION

PROPOSED 6" WHITE SOLID

PROPOSED 6" YELLOW SOLID

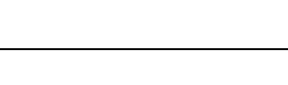




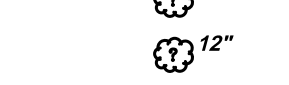


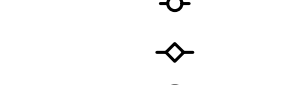
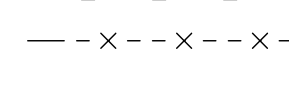
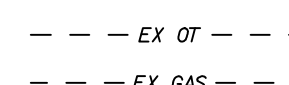
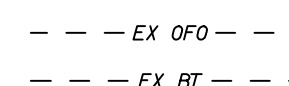
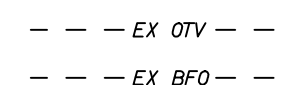
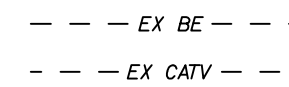
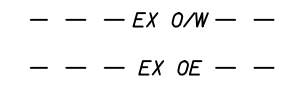
PROPOSED 6" YELLOW 6-10 SKIP

PROPOSED 6" WHITE 6-10 SKIP

CRITICAL ROOT ZONE

MINIMAL ROOT ZONE

EXISTING LEGEND



EXISTING OVERHEAD WIRE

EXISTING OVERHEAD ELECTRIC

EXISTING BURIED ELECTRIC

EXISTING COMMUNICATIONS CABLE OR DUCT

EXISTING TELEVISION CABLE OR DUCT

EXISTING BURIED CABLE TELEVISION

EXISTING OVERHEAD CABLE TELEVISION

EXISTING BURIED FIBER OPTICS

EXISTING OVERHEAD FIBER OPTICS

EXISTING BURIED TELEPHONE

EXISTING OVERHEAD TELEPHONE

EXISTING GAS PIPE

EXISTING CONCRETE WALL










































EXISTING WOOD FENCE

EXISTING CHAIN OR WIRE FENCE

EXISTING TELEPHONE POLE

EXISTING POWER POLE

EXISTING COMMUNICATIONS MANHOLE



ANTENNA

BACK FLOW PREVENTOR VALVE

BENCHMARK

BOLLARD (UNLESS NOTED)

CABLE TELEVISION RISER

CATCH BASIN

CLEAN OUT

CONCRETE LIGHT POLE

CONCRETE UTILITY POLE

CONCRETE UTILITY POLE WITH LIGHT

CURB INLET

DOUBLE DETECTOR CHECK VALVE

DRAINAGE MANHOLE

ELECTRIC MANHOLE

ELECTRIC METER

ELECTRIC RISER

ELECTRIC SERVICE BOX

EXISTING ELEVATION

FIRE HYDRANT

FLAG POLE

GAS MANHOLE

GAS METER

GAS SERVICE BOX

GAS VALVE

GREASE TRAP

GUY ANCHOR

HAND HOLE

IRRIGATION CONTROL BOX

IRRIGATION CONTROL VALVE

LANDSCAPE LIGHT (SPOT LIGHT)

MAIL BOX

METAL LIGHT POLE

MONITORING WELL

OVERHEAD WIRES

SANITARY MANHOLE

SEWER VALVE

SIGN (UNLESS NOTED)

SPIGOT

TELEPHONE MANHOLE

TELEPHONE RISER

TELEPHONE SERVICE BOX

TRAFFIC LIGHT SUPPORT POLE

TRAFFIC SIGNAL CONTROL RISER

TRAFFIC SIGNAL SERVICE BOX

UNDERGROUND GAS MARKER

ABBREVIATIONS

ABN - ABANDONED	MAX - MAXIMUM
ACP - ASBESTOS CEMENT PIPE	MB - MAIL BOX
ARV - AIR RELEASE VALVE	MEG - MATCH EXISTING GRADE
ASPH - ASPHALT	MH - MANHOLE
BE - BURIED ELECTRIC	MIN - MINIMUM
BFO - BURIED FIBER OPTICS	MTR - METER
BFP - BACKFLOW PREVENTER	N - NORTH
BH - BORE HOLE	NAVD - NORTH AMERICAN VERTICAL DATUM
℄ - BASE LINE	NGVD - NATIONAL GEODETIC VERTICAL DATUM
BOC - BOTTOM OF CURB	NIC - NOT IN CONTRACT
BOP - BOTTOM OF PIPE	NO - NUMBER
BOS - BOTTOM OF STRUCTURE	NPW - NON-POTABLE WATER
BT - BURIED TELEPHONE	NTS - NOT TO SCALE
BTV - BURIED CABLE TELEVISION	OW - OVERHEAD WIRE
BW - BOTH WAYS	OC - ON CENTER
CATV - CABLE TELEVISION	OE - OVERHEAD ELECTRIC
CB - CATCH BASIN	OFO - OVERHEAD FIBER OPTICS
CC - CENTER TO CENTER	OR - OFFICIAL RECORDS
CIP - CAST IRON PIPE	OT - OVERHEAD TELEPHONE
CL - CENTER LINE	OTV - OVERHEAD CABLE TELEVISION
CLF - CHAIN LINK FENCE	PB - PLAT BOOK
CMP - CORRUGATED METAL PIPE	PC - POINT OF CURVATURE
CO - CLEAN OUT	PE - POLYETHYLENE
COMM - COMMUNICATIONS	PG - PAGE
CONC - CONCRETE	PI - POINT OF INTERSECTION
CONST - CONSTRUCT	℄ - PROPERTY LINE
CORP - CORPORATION	PRB - POLLUTION RETARDANT BAFFLE
CS - CONTROL STRUCTURE	PRM - PERMANENT REFERENCE MONUMENT
Δ - DELTA ANGLE	PROP - PROPOSED
DDCV - DETECTOR DOUBLE CHECK VALVE	PSI - POUNDS PER SQUARE INCH
DE - DRAINAGE EASEMENT	PT - POINT OF TANGENCY
DIP - DUCTILE IRON PIPE	PVC - POLYVINYL CHLORIDE
DS - DOMESTIC SERVICE	PVMT - PAVEMENT
DWY - DRIVEWAY	R - RADIUS
E - EAST	R/W - RIGHT-OF-WAY
EL - ELEVATION	RCP - REINFORCED CONCRETE PIPE
ELEC - ELECTRIC	RPM - REFLECTIVE PAVEMENT MARKER
EOP - EDGE OF PAVEMENT	RT - RIGHT
EX - EXISTING	S - SOUTH
FDC - FIRE DEPARTMENT CONNECTION	SAN - SANITARY SEWER
FF - FINISHED FLOOR	SD - STORM DRAIN
SH - FIRE HYDRANT	SH - SHORT
FLG - FLANGE	SHT - SHEET
FM - FORCE MAIN	SLV - SLEEVE
FVO - FLUSHING VALVE OUTLET	STA - STATION
G - GAS	STL - STEEL
GA - GAUGE	TEL - TELEPHONE
GALV - GALVANIZED	TOC - TOP OF CURB
GV - GATE VALVE	TOP - TOP OF PIPE
HDPE - HIGH-DENSITY POLYETHYLENE	TYP - TYPICAL
HP - HIGH POINT	UE - UTILITY EASEMENT
INV - INVERT	UNK - UNKNOWN
IRR - IRRIGATION	VCP - VITRIFIED CLAY PIPE
L - ARC LENGTH	W - WEST
LAT - LATERAL	W/O - WITHOUT
LBR - LIMBEROCK BEARING RATIO	WR - WHITE & RED
LE - LANDSCAPE EASEMENT	WM - WATER MAIN
LF - LINEAR FOOT	WTR - WATER
LP - LIGHT POLE	Y - YARD DRAIN
LPFM - LOW PRESSURE FORCE MAIN	Y/Y - YELLOW & YELLOW
LT - LEFT	

NOT FOR CONSTRUCTION



chen moore and associates
500 Australian Avenue South
Suite 850
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com

REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

NORTH COUNTY
ROAD DRAINAGE
IMPROVEMENTS

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

DRAWN BY
JH

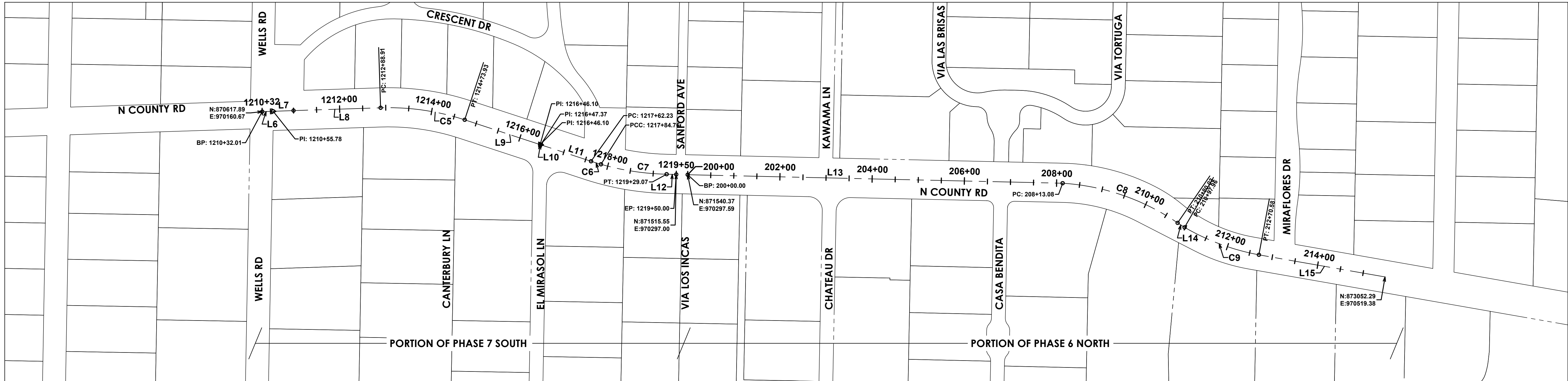
CHECKED BY
BW

DRAWING TITLE

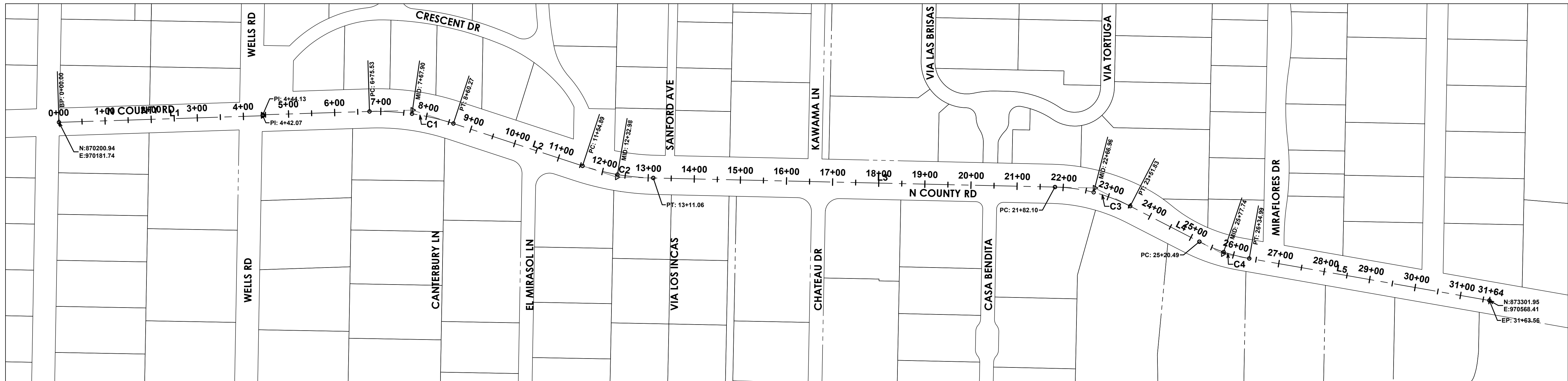
GENERAL NOTES

DRAWING NUMBER
GN-1

Plot Date: 12/22/2022 2:06:43 PM Username: abologna Layout Name: SC-1
Folder Path: V:\Projects\2021\21-0431.00039 - north county road drainage improvements\Design\CAD\Sheets Filename: 21-0431.00039 Survey Control.dwg



TOWN OF PALM BEACH UNDERGROUNDING PROJECT BASE LINES PHASE 6N & 7S



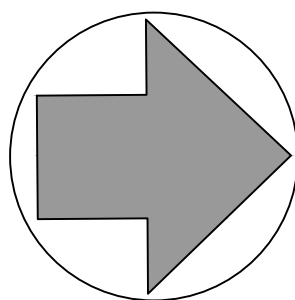
PROPOSED PROJECT CENTERLINE ALIGNMENT

LINE TABLE: ALIGNMENTS						
NO	LENGTH	DIRECTION	START POINT (E , N)	END POINT (E , N)	START STATION	END STATION
L1	442.07'	N01°51'21"W	970181.74, 870200.94	970167.42, 870642.77	0+00	4+42
L2	294.62'	N18°10'38"E	970184.30, 871056.03	970276.21, 871335.94	8+60	11+55
L3	871.03'	N01°17'39"E	970302.52, 871489.31	970322.19, 872360.12	13+11	21+82
L4	168.66'	N27°13'38"E	970363.65, 872523.22	970440.82, 872673.20	23+52	25+20
L5	528.57'	N09°56'23"E	970477.17, 872781.32	970568.41, 873301.95	26+35	31+64
L6	23.77'	N01°51'21"W	970160.67, 870617.89	970159.90, 870641.65	1210+32	1210+56
L7	233.12'	N01°51'21"W	970159.90, 870641.65	970152.35, 870874.65	1210+56	1212+89
L8	233.12'	N01°51'21"W	970159.90, 870641.65	970152.35, 870874.65	1210+56	1212+89

LINE TABLE: ALIGNMENTS						
NO	LENGTH	DIRECTION	START POINT (E , N)	END POINT (E , N)	START STATION	END STATION
L9	172.17'	N18°10'38"E	970178.48, 871056.87	970232.19, 871220.45	1214+74	1216+46
L10	1.27'	N18°10'39"E	970232.19, 871220.45	970232.58, 871221.65	1216+46	1216+47
L11	114.86'	N18°10'39"E	970232.58, 871221.65	970268.42, 871330.78	1216+47	1217+62
L12	20.93'	N01°17'38"E	970296.53, 871494.62	970297.00, 871515.55	1219+29	1219+50
L13	813.08'	N01°18'08"E	970297.59, 871540.37	970316.06, 872353.24	200+00	208+13
L14	17.93'	N32°50'30"E	970402.11, 872602.55	970411.84, 872617.62	210+80	210+98
L15	739.96'	N09°56'24"E	970471.45, 872778.74	970599.17, 873507.59	212+71	220+11

CURVE TABLE: ALIGNMENTS							
NO	RADIUS	LENGTH	CHORD DIRECTION	START POINT (E , N)	END POINT (E , N)	START STATION	END STATION
C1	530.00'	184.74'	N08°11'29"E	970158.11, 870874.09	970184.30, 871056.03	6+76	8+60
C2	530.00'	156.17'	N09°44'08"E	970276.21, 871335.94	970302.52, 871489.31	11+55	13+11
C3	375.00'	169.73'	N14°15'38"E	970322.19, 871335.94	970363.65, 872523.22	21+82	23+52
C4	379.50'	114.50'	N18°35'01"E	970440.82, 872673.20	970477.17, 872781.32	25+20	26+35
C5	529.17'	185.02'	N08°09'39"E	970152.35, 870874.65	970178.48, 871056.87	1212+89	1214+74
C6	566.16'	22.53'	N17°02'15"E	970268.42, 871330.78	970275.02, 871352.33	1217+62	1217+85
C7	566.16'	144.30'	N08°35'43"E	970275.02, 871352.33	970296.53, 871494.62	1217+85	1219+29
C8	496.36'	266.95'	N19°02'32"E	970316.06, 872353.24	970402.11, 872602.55	208+13	210+80
C9	508.62'	172.62'	N20°18'10"E	970411.84, 872617.62	970471.45, 872778.74	210+98	212+71

NOT FOR CONSTRUCTION



REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

**NORTH COUNTY
ROAD DRAINAGE
IMPROVEMENTS**

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES
0 1" = 120'
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

DRAWN BY
JH

CHECKED BY
BW

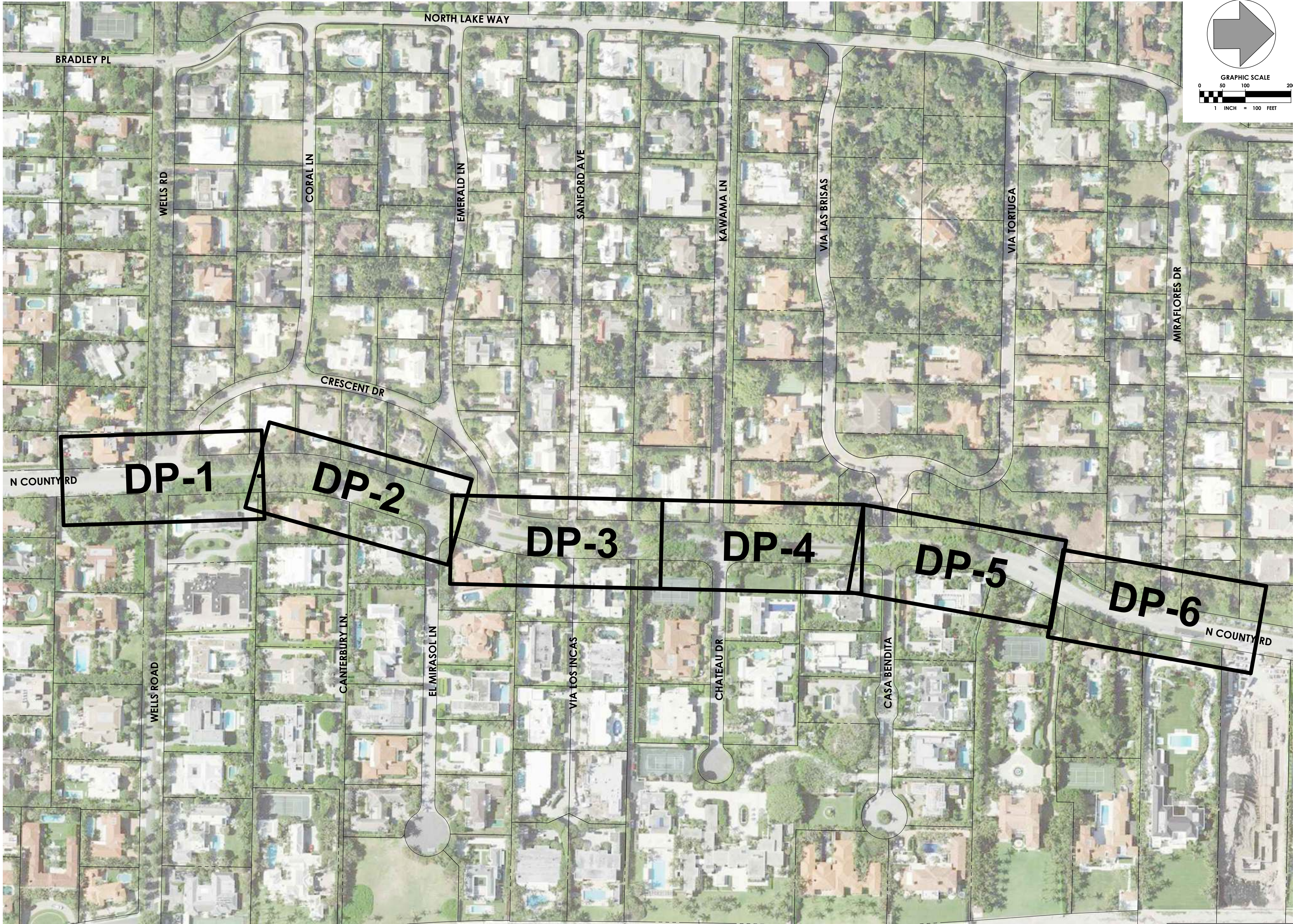
DRAWING TITLE

**SURVEY CONTROL
PLAN**

DRAWING NUMBER

SC-1
03 OF 24

Plot Date: 12/22/2022 2:06:54 PM Username: abologna Layout Name: KEY-1
Folder Path: V:\Projects\2021\21-0431.00039 - north county road drainage improvements\Design\CAD\Sheets Filename: 21-0431.00039 Key Sheet.dwg



NOT FOR CONSTRUCTION

REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

**NORTH COUNTY
ROAD DRAINAGE
IMPROVEMENTS**

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

DRAWN BY
JH

CHECKED BY
BW

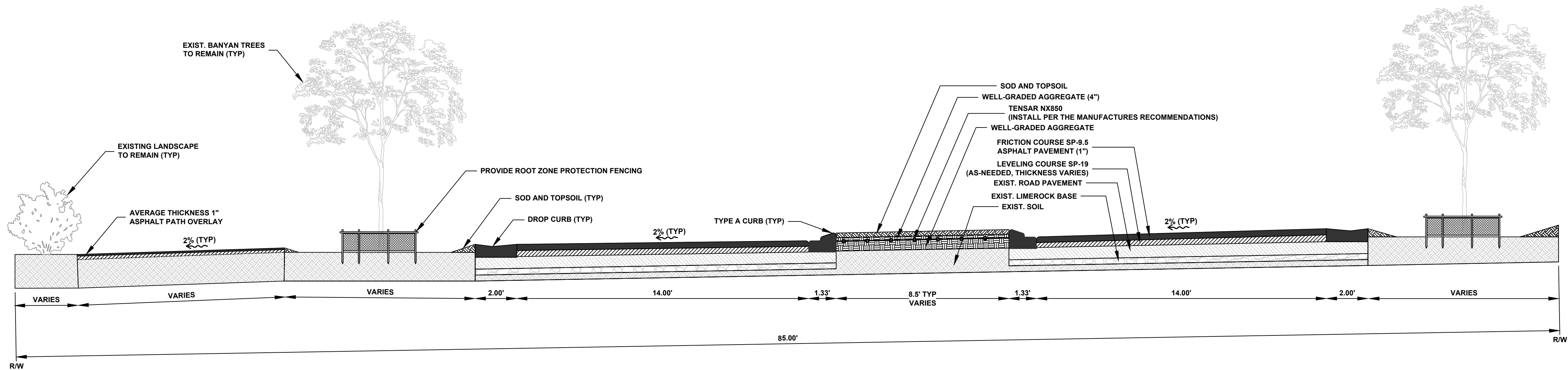
DRAWING TITLE

KEY SHEET

DRAWING NUMBER
KEY-1
04 OF 24

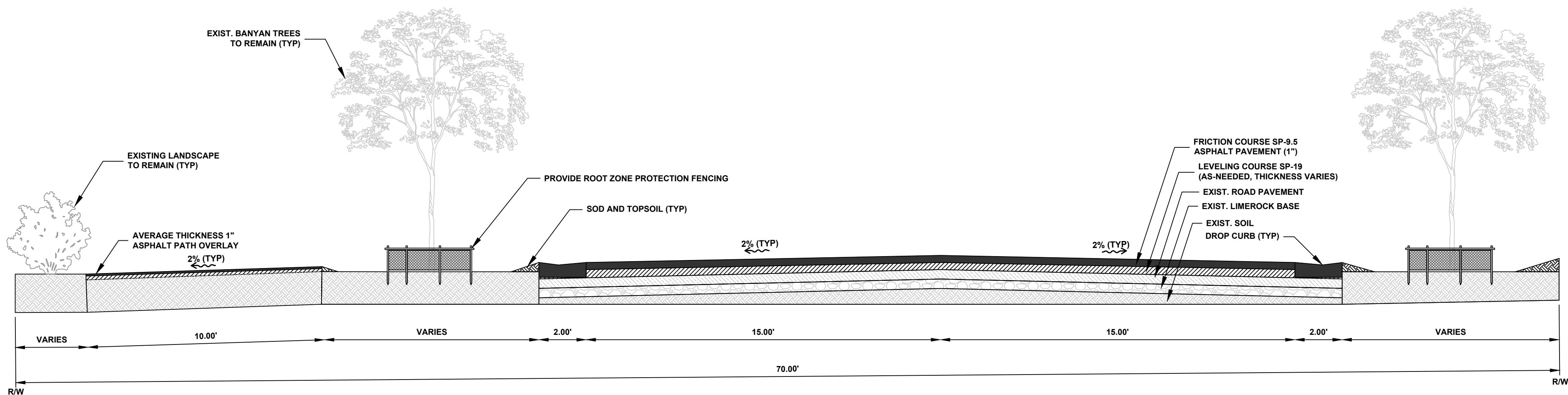
STA: 4+40 TO STA: 22+40

N.T.S.



STA: 22+40 TO STA: 27+00

N.T.S.



REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

**NORTH COUNTY
ROAD DRAINAGE
IMPROVEMENTS**

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

DRAWN BY
JH

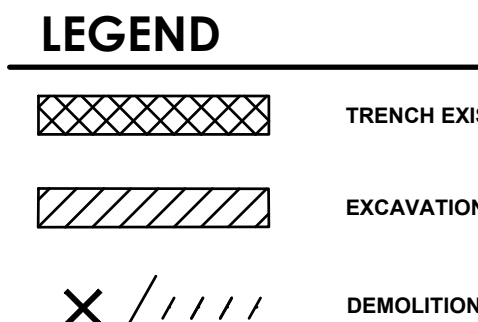
CHECKED BY
BW

DRAWING TITLE

TYPICAL SECTIONS

DRAWING NUMBER
TYP-1
05 OF 24

NOT FOR CONSTRUCTION



1. EXISTING CONDITIONS PRESENTED ARE BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY AVIROM & ASSOCIATES INC, 2020 & 2021. ADDITIONAL INFORMATION WAS OBTAINED FROM AS-BUILTS AND RECORD DRAWINGS PROVIDED BY UTILITY COMPANIES, G.I.S. INFORMATION AND FIELD VISITS.

2. ALL ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929)

3. NATIONAL GEODETIC SURVEY (NGS) BENCHMARKS USED:

DESCRIPTION = BRASS DISK "A 310"
P.I.D. = AD2870
ELEVATION = 3.17 FEET (NAVD 1988) AND 4.747 (NGVD 1929)

DESCRIPTION = BRASS DISK STAMPED "E310 1970" TIDAL BM
P.I.D. = AD2862
ELEVATION = 6.92 FEET (NAVD 1988) AND 8.45 FEET (NGVD 1929)

DESCRIPTION = 872 2607 B TIDAL,
P.I.D. = DJ9593
ELEVATION = ELEVATION 3.59 FEET (NAVD 1988) AND 2.06 FEET (NGVD 1929)

4. CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES NOT IMPACTED BY THIS PLAN.

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401


PROJECT INFORMATION

NORTH COUNTY ROAD DRAINAGE IMPROVEMENTS

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES
0  1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DODRAWN BY
IH

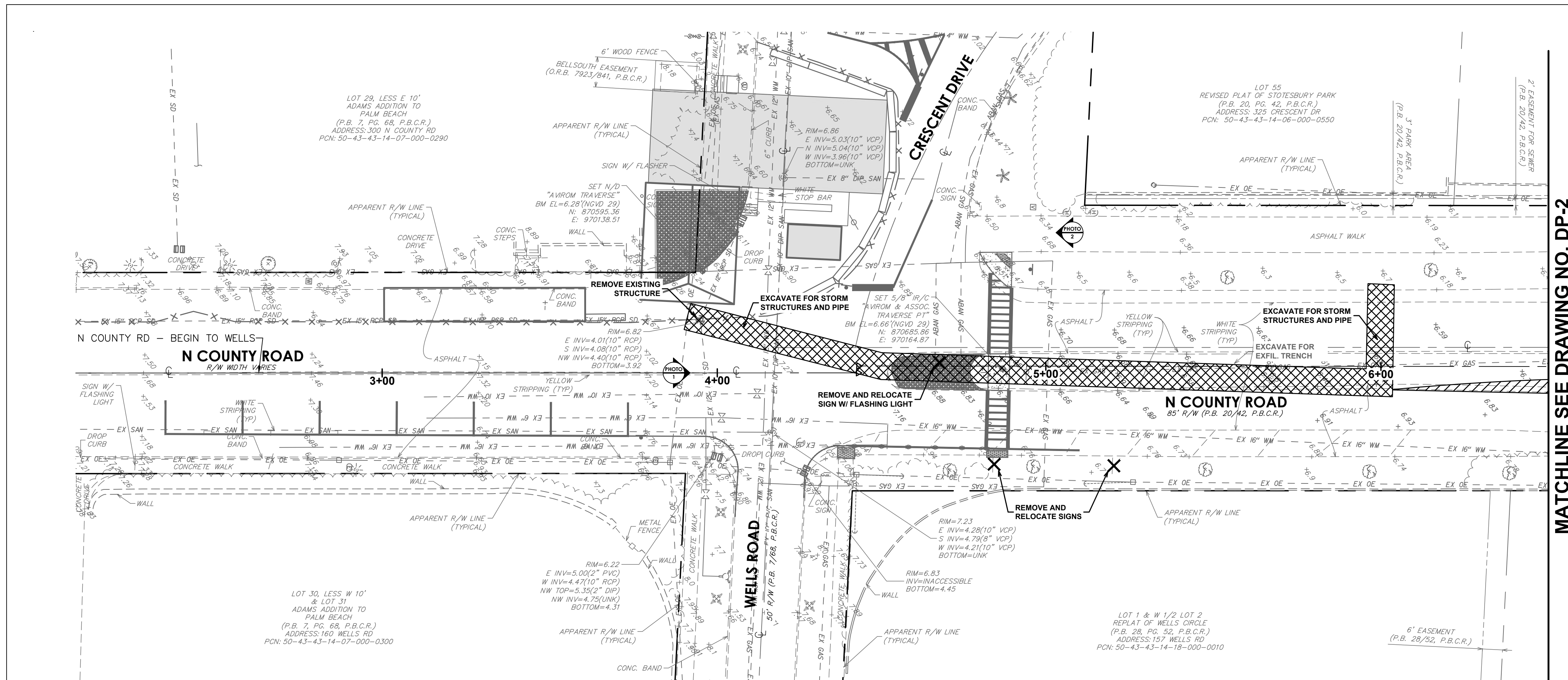
CHECKED BY _____
BY _____

DRAWING TITLE

EXISTING AND DEMOLITION PLAN

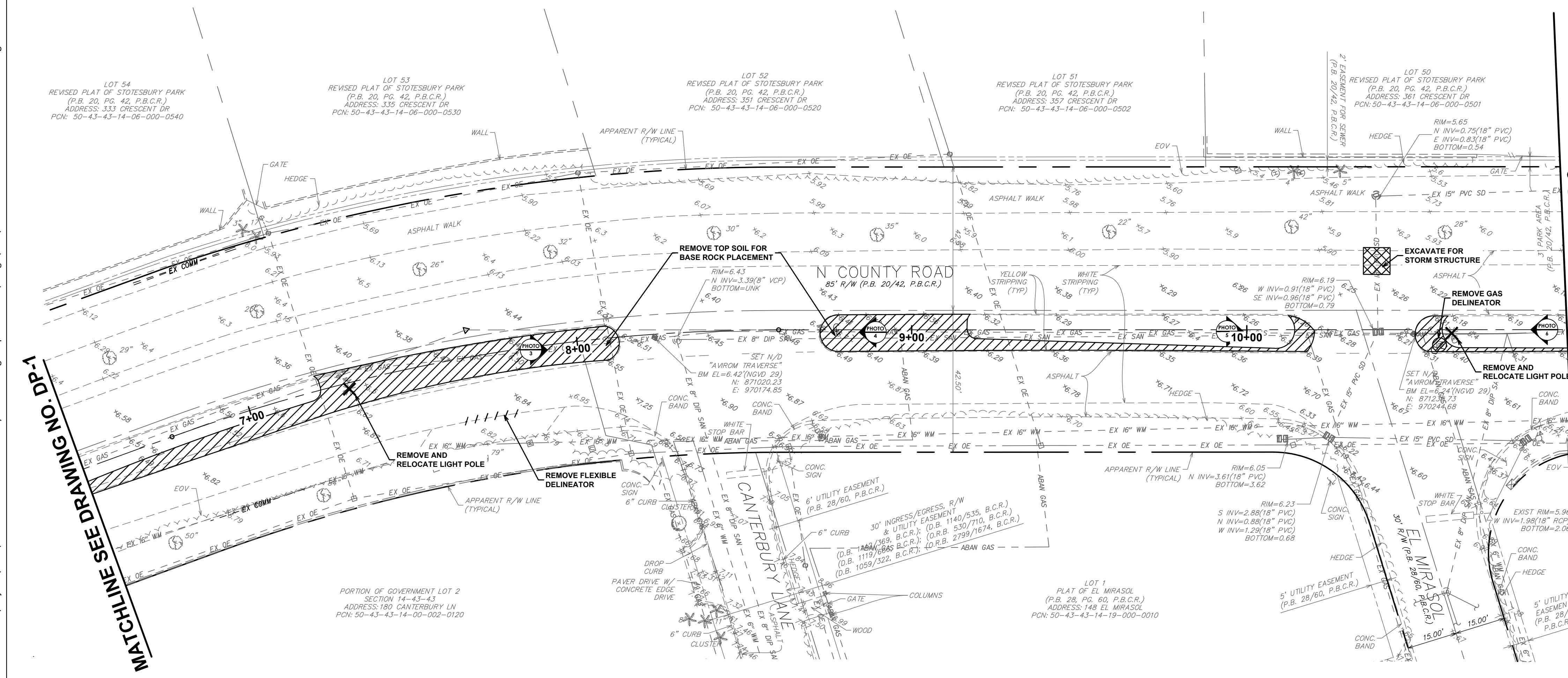
DRAWING NUMBER

DEM-1
06 OF 24

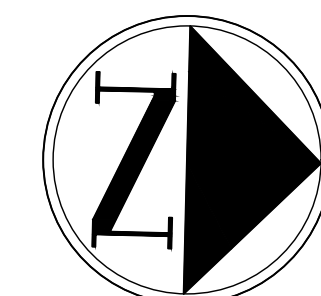


EX - E +

MATCHLINE SEE DRAWING NO. DP-2



WATCHLINE SEE DRAWING NO. DP-3



GRAPHIC SCALE

0 10 20 40

1 INCH = 20 FEET

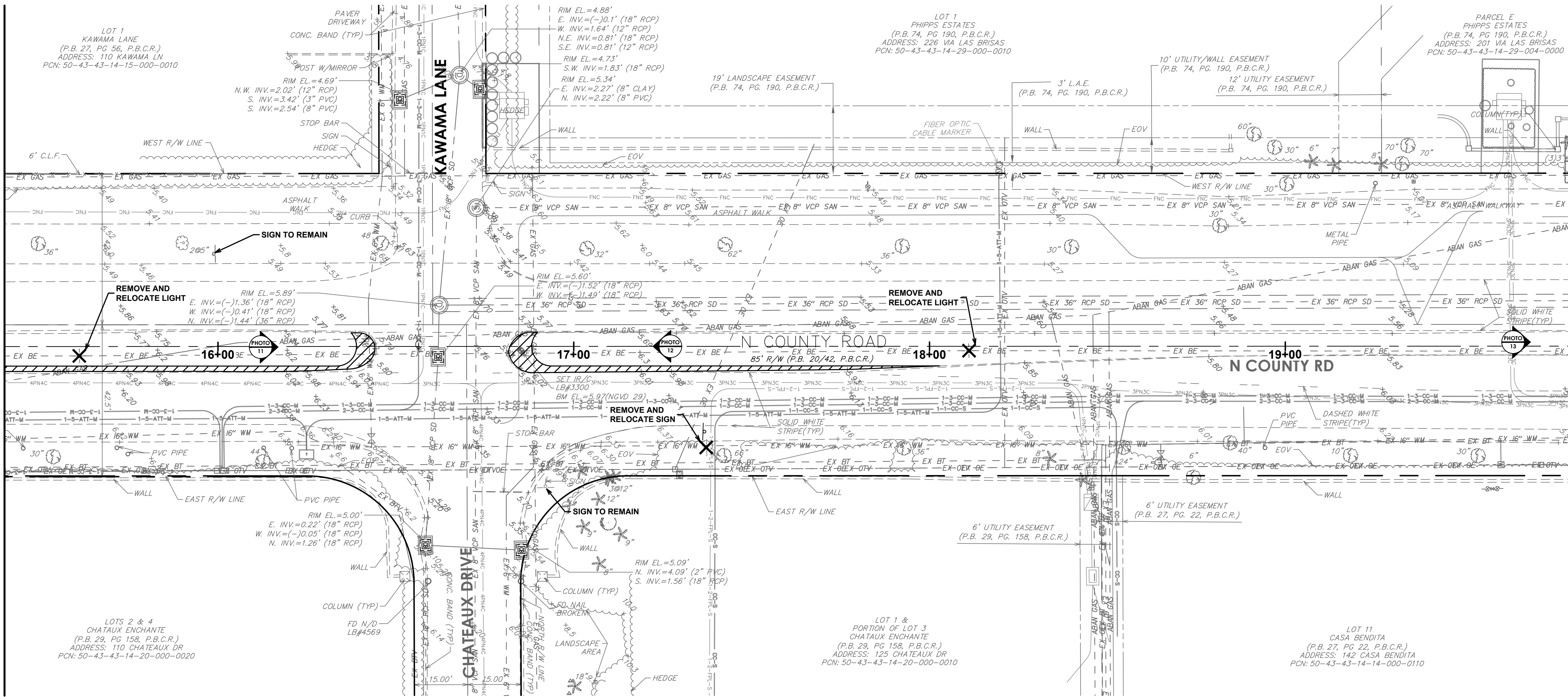


Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig

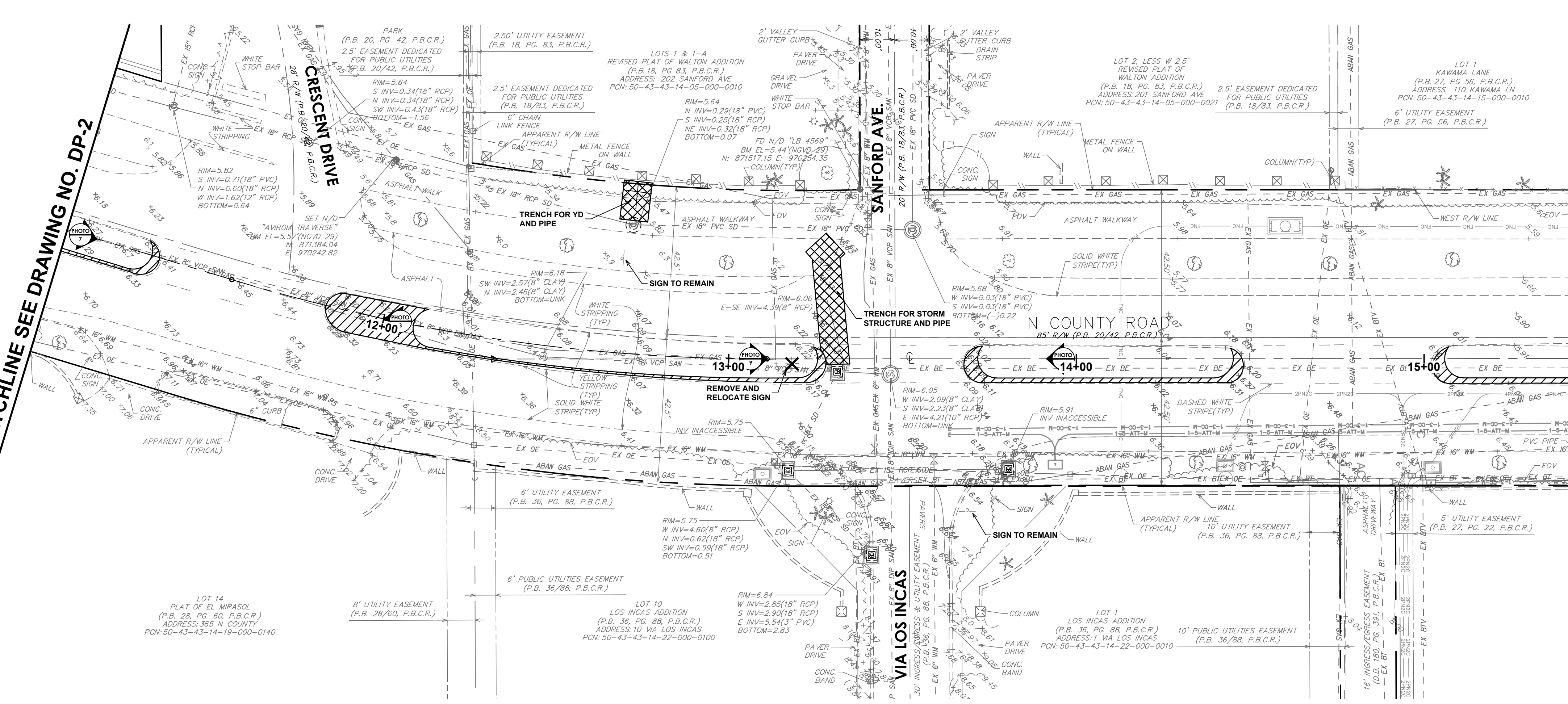
NOT FOR CONSTRUCTION

MATCHLINE SEE DRAWING NO. DP-3

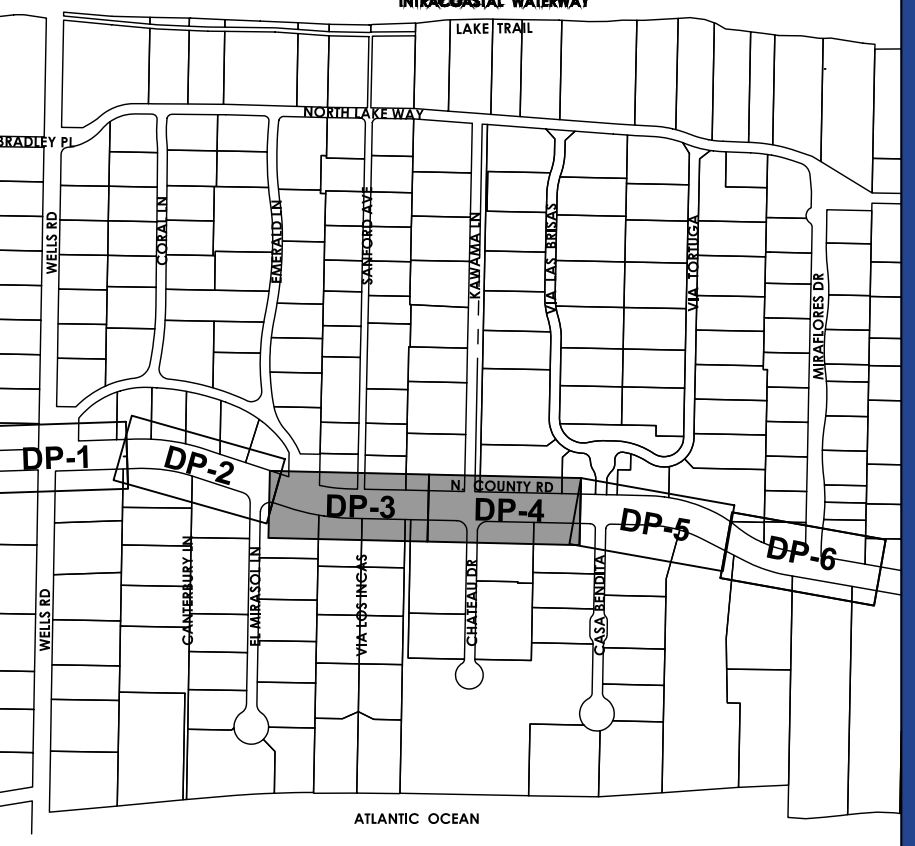


MATCHLINE SEE DRAWING NO. DP-5

MATCHLINE SEE DRAWING NO. DP-2



MATCHLINE SEE DRAWING NO. DP-4



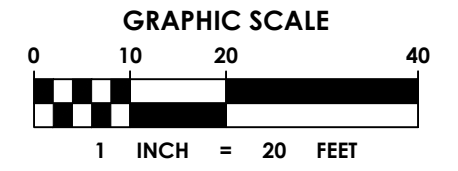
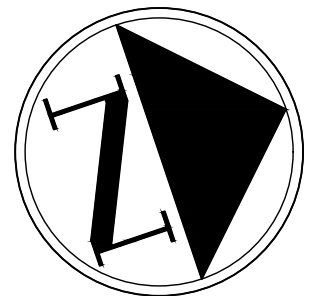
KEY MAP

LEGEND

- TRENCH EXISTING ROADWAY
- EXCAVATION
- DEMOLITION

EXISTING CONDITIONS NOTES:

- EXISTING CONDITIONS PRESENTED ARE BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY AVIROM & ASSOCIATES INC. 2020 & 2021. ADDITIONAL INFORMATION WAS OBTAINED FROM AS-BUILTS AND RECORD DRAWINGS PROVIDED BY UTILITY COMPANIES, G.I.S. INFORMATION AND FIELD VISITS.
- ALL ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929)
- NATIONAL GEODETIC SURVEY (NGS) BENCHMARKS USED:
 - DESCRIPTION = BRASS DISK "A 310"
 - P.I.D. = AD2870
 - ELEVATION = 3.17 FEET (NAVD 1988) AND 4.747 (NGVD 1929)
 - DESCRIPTION = BRASS DISK STAMPED "E310 1970" TIDAL BM
 - P.I.D. = DJ9593
 - ELEVATION = 6.92 FEET (NAVD 1988) AND 8.45 FEET (NGVD 1929)
 - DESCRIPTION = 872 2607 B TIDAL
 - P.I.D. = DJ9593
 - ELEVATION = ELEVATION 3.69 FEET (NAVD 1988) AND 2.06 FEET (NGVD 1929)
- CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES NOT IMPACTED BY THIS PLAN.



NOT FOR CONSTRUCTION

REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

**NORTH COUNTY
ROAD DRAINAGE
IMPROVEMENTS**

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES
0 1" = 20 FEET
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

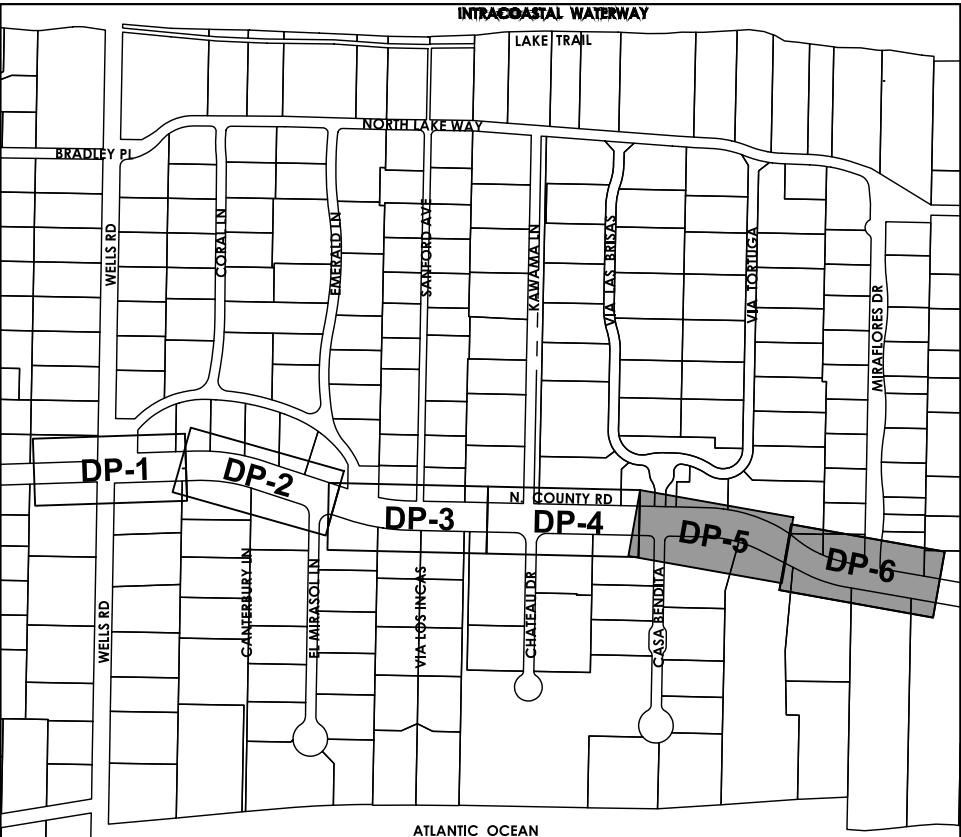
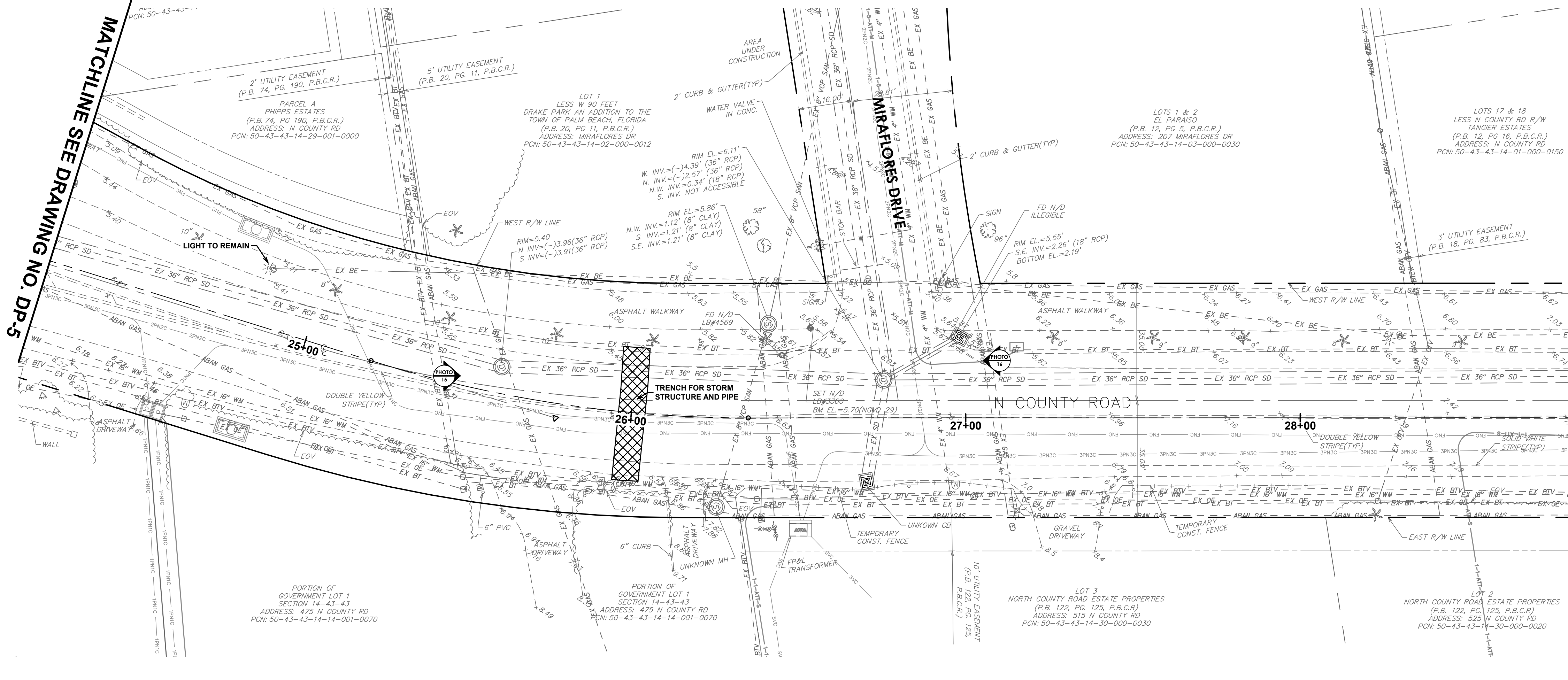
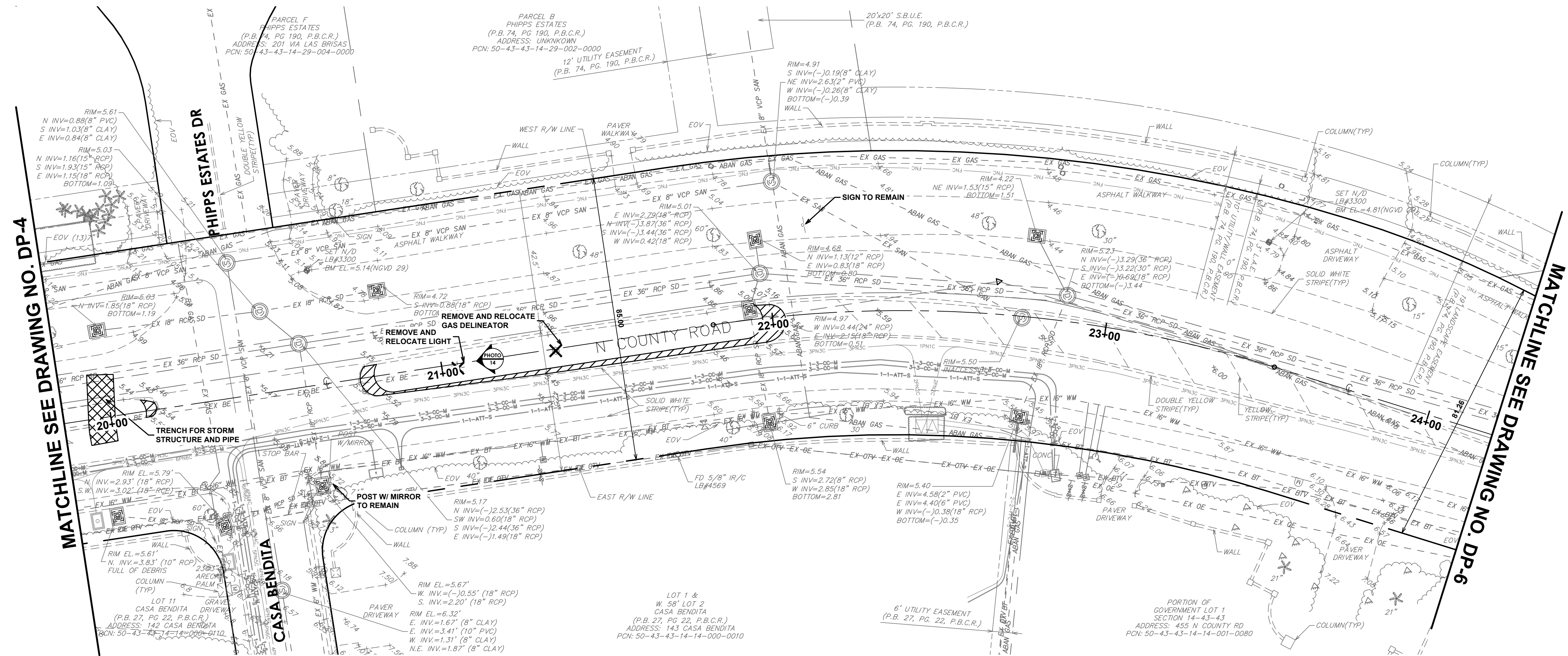
DRAWN BY
JH

CHECKED BY
BW

DRAWING TITLE

EXISTING AND
DEMOLITION PLAN

DRAWING NUMBER
DEM-2
07 OF 24



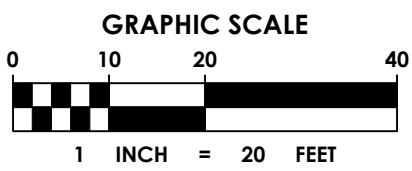
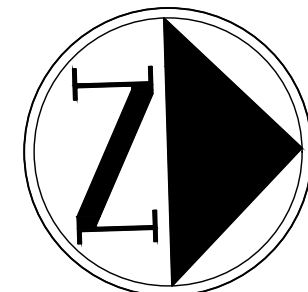
KEY MAP

LEGEND

- TRENCH EXISTING ROADWAY
- EXCAVATION
- DEMOLITION

EXISTING CONDITIONS NOTES:

- EXISTING CONDITIONS PRESENTED ARE BASED ON A TOPOGRAPHIC SURVEY PROVIDED BY AVIROM & ASSOCIATES INC. 2020 & 2021. ADDITIONAL INFORMATION WAS OBTAINED FROM AS-BUILTS AND RECORD DRAWINGS PROVIDED BY UTILITY COMPANIES, G.I.S. INFORMATION AND FIELD VISITS.
- ALL ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929)
- NATIONAL GEODETIC SURVEY (NGS) BENCHMARKS USED:
 - DESCRIPTION = BRASS DISK "A 310"
 - P.I.D. = AD2870
 - ELEVATION = 3.17 FEET (NAVD 1988) AND 4.747 (NGVD 1929)
 - DESCRIPTION = BRASS DISK STAMPED "E310 1970" TIDAL BM
 - P.I.D. = AD2862
 - ELEVATION = 6.92 FEET (NAVD 1988) AND 8.45 FEET (NGVD 1929)
 - DESCRIPTION = 872 2607 B TIDAL
 - P.I.D. = DJ9593
 - ELEVATION = ELEVATION 3.69 FEET (NAVD 1988) AND 2.06 FEET (NGVD 1929)
- CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES NOT IMPACTED BY THIS PLAN.



Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

NOT FOR CONSTRUCTION

REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

NORTH COUNTY
ROAD DRAINAGE
IMPROVEMENTS

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER

21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE

12/22/2022

DESIGNED BY

DC

DRAWN BY

JH

CHECKED BY

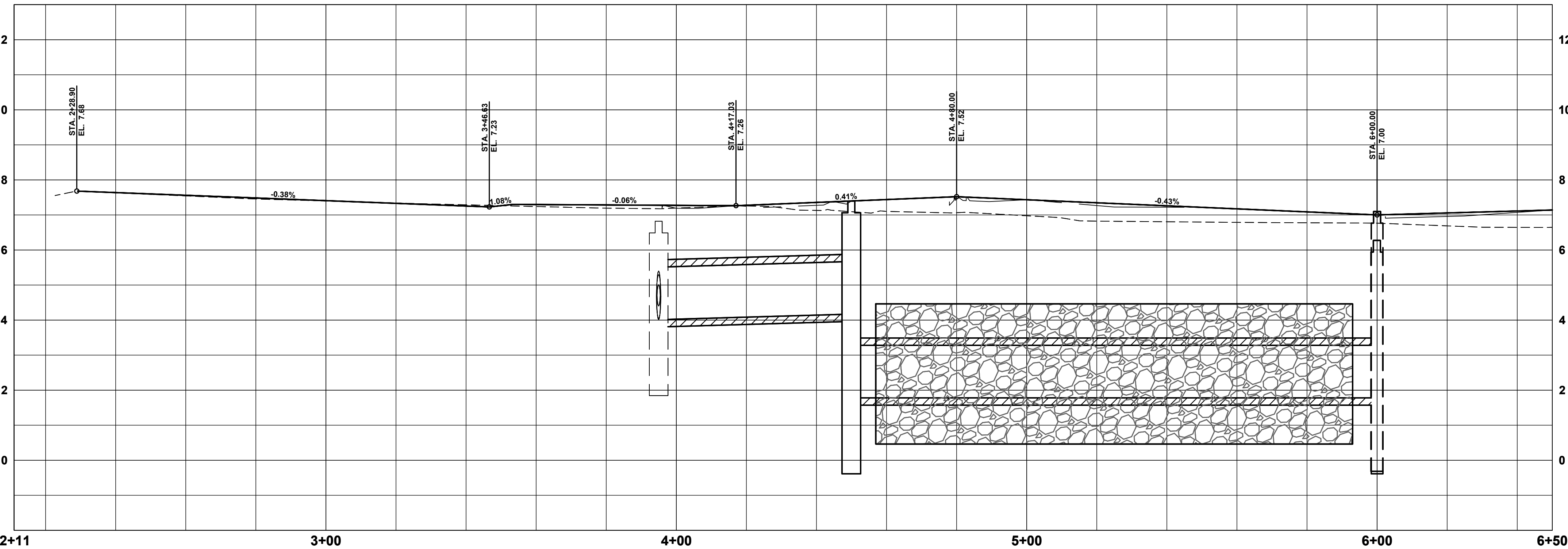
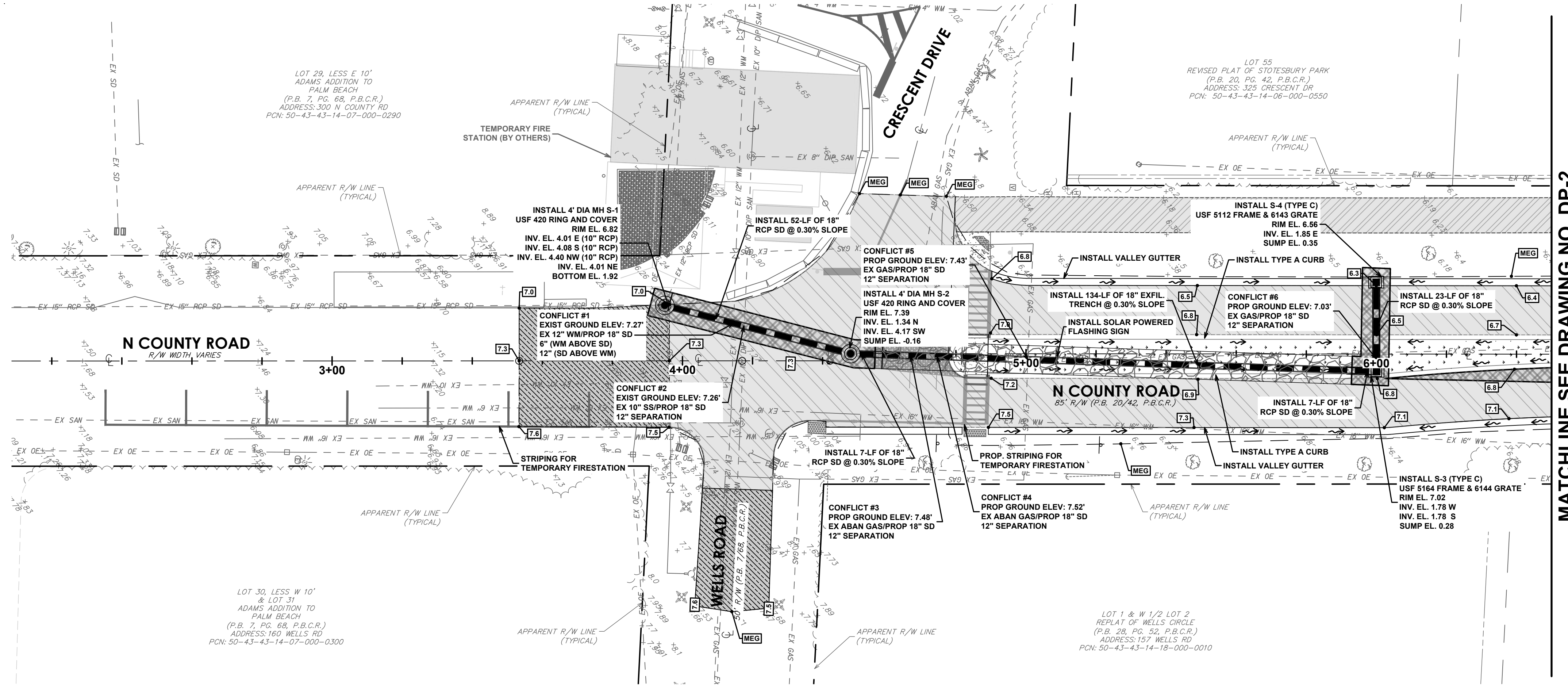
BW

DRAWING TITLE

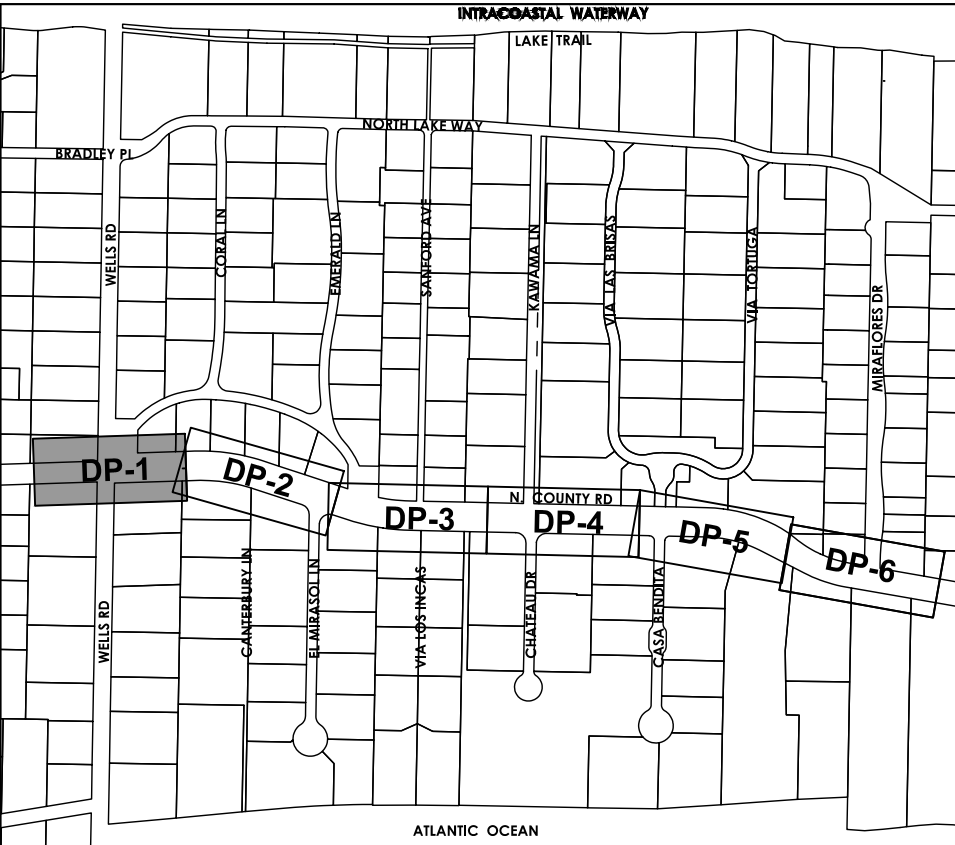
EXISTING AND
DEMOLITION PLAN

DRAWING NUMBER

DEM-3
08 OF 24



SCALE: 1"=20' HORIZ | 1"=2' VERT



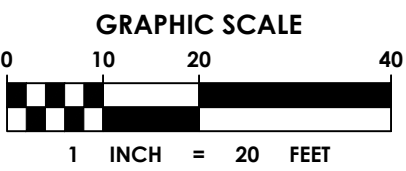
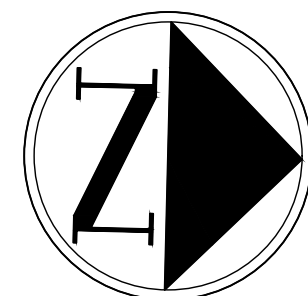
KEY MAP

LEGEND

- PROPOSED STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH
- PROPOSED CATCH BASIN OR INLET
- PROPOSED STORM MANHOLE
- PROPOSED ELEVATION
- PROPOSED SURFACE FLOW ARROW
- PROPOSED SOD
- FULL DEPTH OVERLAY
- FULL DEPTH RECONSTRUCTION

PAVING, GRADING AND DRAINAGE NOTES:

- ELEVATIONS SHOWN HEREON ARE IN FEET AND BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929)
- BENCHMARK DESCRIPTION: NATIONAL GEODETIC SURVEY BENCHMARKS, BRASS DISK "A 310", P.I.D. = AD2870, ELEVATION = 3.17 FEET (NAVD 1988) AND 4.747 (NGVD 1929) & BRASS DISK STAMPED "E310 1970" TIDAL BM, P.I.D. = AD2862, ELEVATION = 6.92 FEET (NAVD 1988) AND 8.45 FEET (NGVD 1929).
- BENCHMARK DESCRIPTION: NATIONAL GEODETIC SURVEY BENCHMARK, 872 2607 B TIDAL, P.I.D. D9593, ELEVATION 3.59 FEET (NAVD 1988) AND 2.06 FEET (NGVD 1929).
- ALL SIDEWALKS SHALL MEET ALL A.D.A. REQUIREMENTS (5% MAX. LONGITUDINAL SLOPE AND 2% MAX. TRANSVERSE SLOPE).
- ALL INLETS SHALL BE TYPE "C" AND MANHOLES SHALL BE TYPE "P-7" 4'0", ALL H-20 RATED, UNLESS OTHERWISE NOTED ON PLAN.
- CONCRETE PIPE FOR STORM SEWERS SHALL CONFORM TO ASTM L76-79, TABLE III, WALL B, OR LATEST REVISION. ALL PIPE SHALL HAVE MODIFIED TONGUE AND GROOVE JOINTS, AND HAVE RUBBER GASKETS, UNLESS OTHERWISE SPECIFIED.
- BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" DIAMETER.
- BACKFILL MATERIAL UNDER PAVED AREAS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- DRAINAGE STRUCTURES AND LINES TO BE CLEANED PRIOR TO ENGINEER'S ACCEPTANCE.



Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

NOT FOR CONSTRUCTION

REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

**NORTH COUNTY
ROAD DRAINAGE
IMPROVEMENTS**

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1" = 20' HORIZ | 1" = 2' VERT
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

DRAWN BY
JH

CHECKED BY
BW

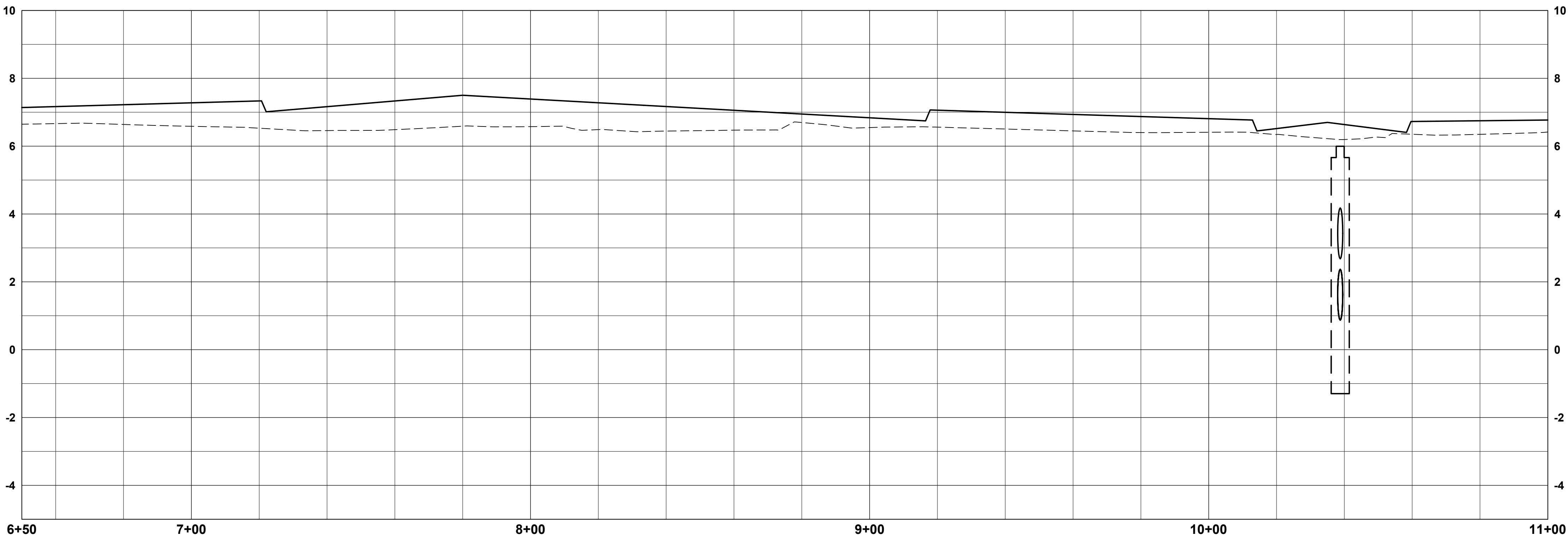
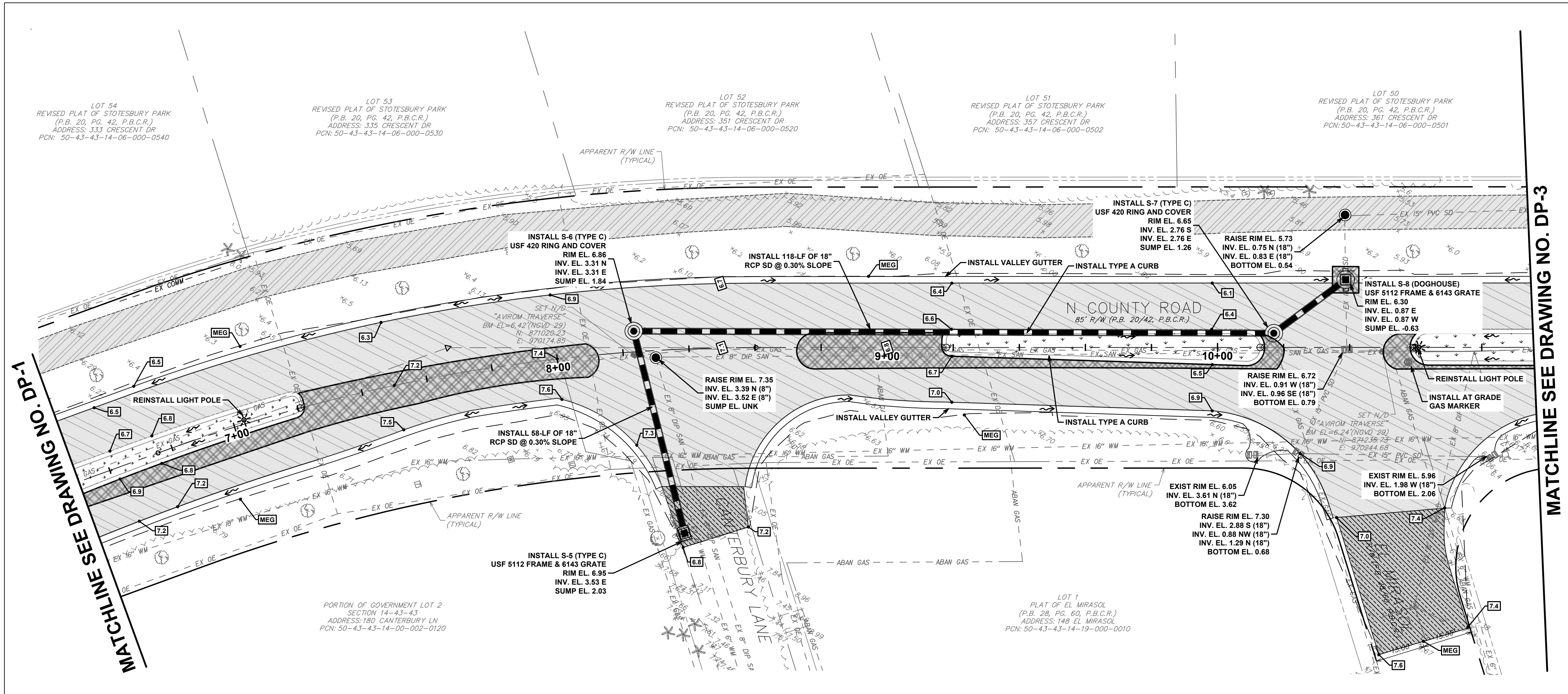
DRAWING TITLE

**DRAINAGE
IMPROVEMENTS
PLAN AND PROFILE**

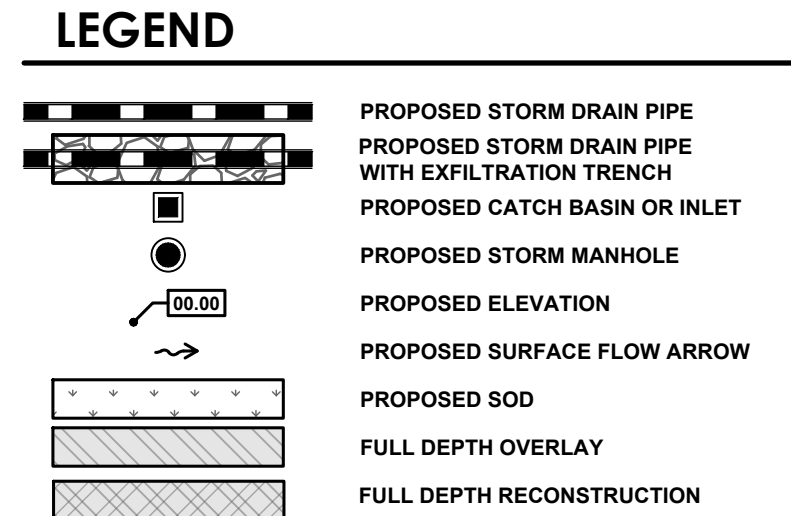
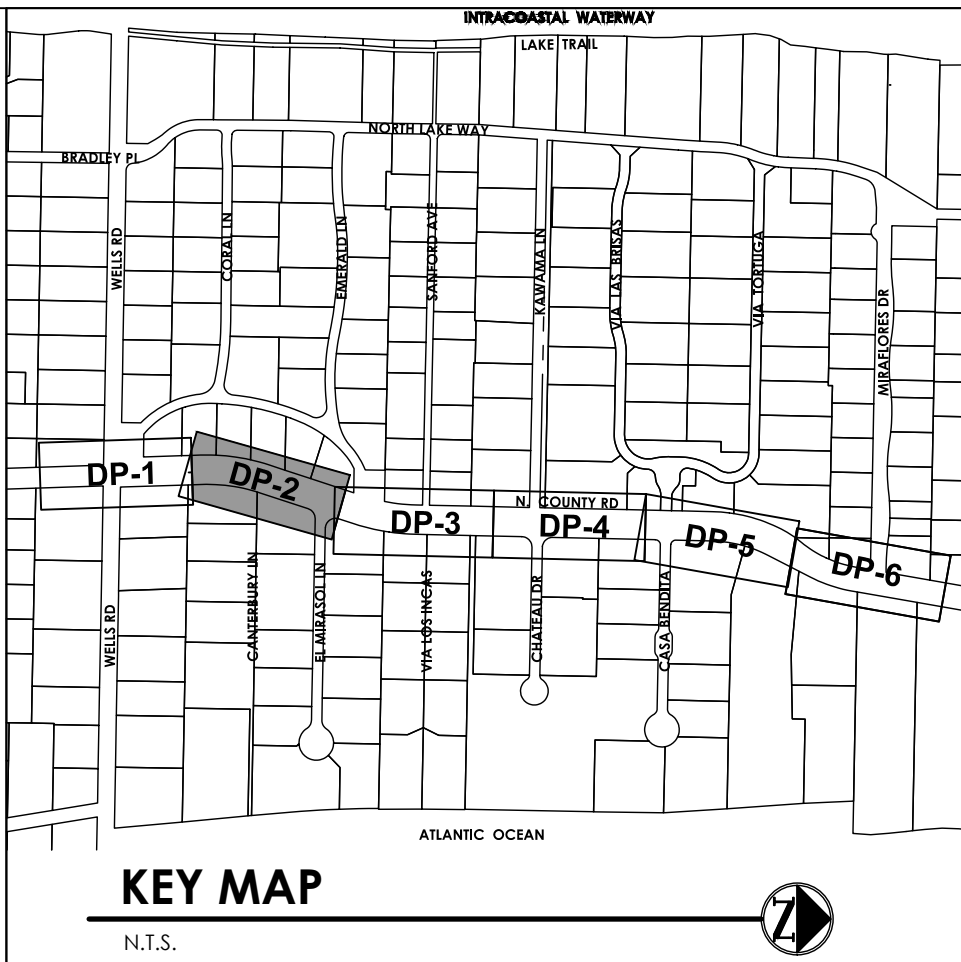
DRAWING NUMBER

DP-1

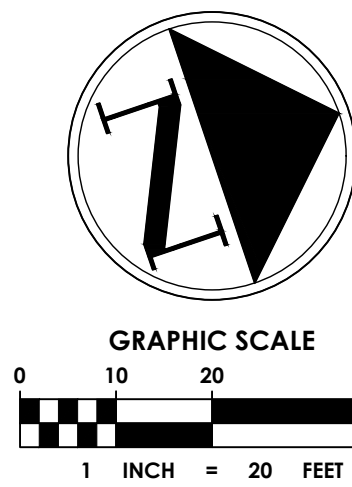
09 OF 24



SCALE: 1"=20' HORZ | 1"=2' VERT



- PAVING, GRADING AND DRAINAGE NOTES:**
- ELEVATIONS SHOWN HEREON ARE IN FEET AND BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929)
 - BENCHMARK DESCRIPTION: NATIONAL GEODETIC SURVEY BENCHMARKS, BRASS DISK "A 310", P.I.D. = AD2870, ELEVATION = 3.17 FEET (NAVD 1988) AND 4.747 (NGVD 1929) & BRASS DISK STAMPED "E310 1970" TIDAL BM, P.I.D. = AD2862, ELEVATION = 6.92 FEET (NAVD 1988) AND 8.45 FEET (NGVD 1929).
 - BENCHMARK DESCRIPTION: NATIONAL GEODETIC SURVEY BENCHMARK, 872 2607 B TIDAL, P.I.D. DJ9593, ELEVATION 3.59 FEET (NAVD 1988) AND 2.06 FEET (NGVD 1929).
 - ALL SIDEWALKS SHALL MEET ALL A.D.A. REQUIREMENTS (5% MAX. LONGITUDINAL SLOPE AND 2% MAX. TRANSVERSE SLOPE).
 - ALL INLETS SHALL BE TYPE 'C' AND MANHOLES SHALL BE TYPE 'P-7' 4'0", ALL H-20 RATED, UNLESS OTHERWISE NOTED ON PLAN.
 - CONCRETE PIPE FOR STORM SEWERS SHALL CONFORM TO ASTM L76-79, TABLE III, WALL B, OR LATEST REVISION. ALL PIPE SHALL HAVE MODIFIED TONGUE AND GROOVE JOINTS, AND HAVE RUBBER GASKETS, UNLESS OTHERWISE SPECIFIED.
 - BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" DIAMETER.
 - BACKFILL MATERIAL UNDER PAVED AREAS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
 - BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
 - DRAINAGE STRUCTURES AND LINES TO BE CLEANED PRIOR TO ENGINEER'S ACCEPTANCE.



Sunshine811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
Check positive response codes before you dig!

NOT FOR CONSTRUCTION

REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

**NORTH COUNTY
ROAD DRAINAGE
IMPROVEMENTS**

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES
0 1" = 20' HORIZ
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

DRAWN BY
JH

CHECKED BY
BW

DRAWING TITLE

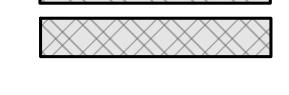
**DRAINAGE
IMPROVEMENTS
PLAN AND PROFILE**

DRAWING NUMBER

DP-2
10 OF 24



LEGEND



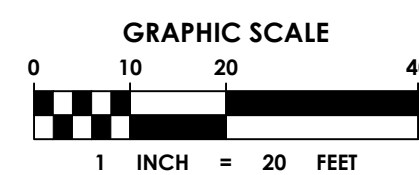
PAVING, GRADING AND DRAINAGE NOTES:

- ELEVATIONS SHOWN HEREON ARE IN FEET AND BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929).
- BENCHMARK DESCRIPTION: NATIONAL GEODETIC SURVEY BENCHMARK, STATION DISK 74 518, P.I.D. #A2876, ELEVATION = 3.17 FEET (NAVD 1988) AND 47' 0" (NAVD 1929). BENCHMARK #A2876 IS LOCATED 10.45' TIDAL BL. P.I.D. = A42862, ELEVATION = 6.82 FEET (NAVD 1988) AND 13.87 FEET (NAVD 1929).
- BENCHMARK DESCRIPTION: NATIONAL GEODETIC SURVEY BENCHMARK, STATION DISK 74 518, P.I.D. #J5993, ELEVATION 3.59 FEET (NAVD 1988) AND 2.06 FEET (NAVD 1929).
- ALL SIDEWALKS SHALL MEET ALL A.D.A. REQUIREMENTS (5% MAX. LONGITUDINAL SLOPE AND 2% MAX. TRANSVERSE SLOPE).
- ALL CURBS SHALL BE 12" HIGH. ALL MANHOLES SHALL BE TYPE "P-7" 4' Ø, ALL H-20 RATED, UNLESS OTHERWISE NOTED ON PLAN.
- CONCRETE PIPE FOR STORM SEWERS SHALL CONFORM TO ASTM L76-79, TABLE II, WALL B, OR LATEST REVISION. ALL PIPE SHALL HAVE MODIFIED BEDDING AND GROUND JOINTS, AND HAVE RUBBER GASKETS, UNLESS OTHERWISE SPECIFIED.
- BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" DIAMETER.
- BACKFILL MATERIAL UNDERSTAYED AREAS SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-160.
- BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 85% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-160.
- DRAINAGE STRUCTURES AND LINES TO BE CLEANED PRIOR TO ENGINEER'S ACCEPTANCE.

REGISTRATION

TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

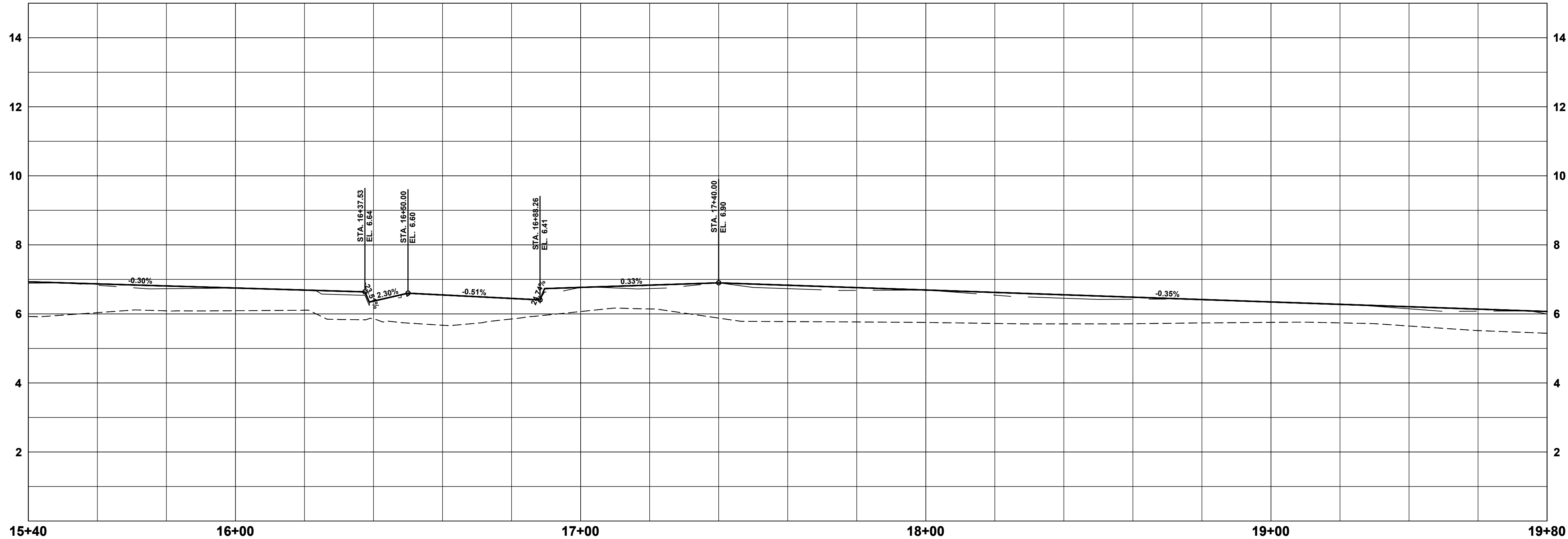
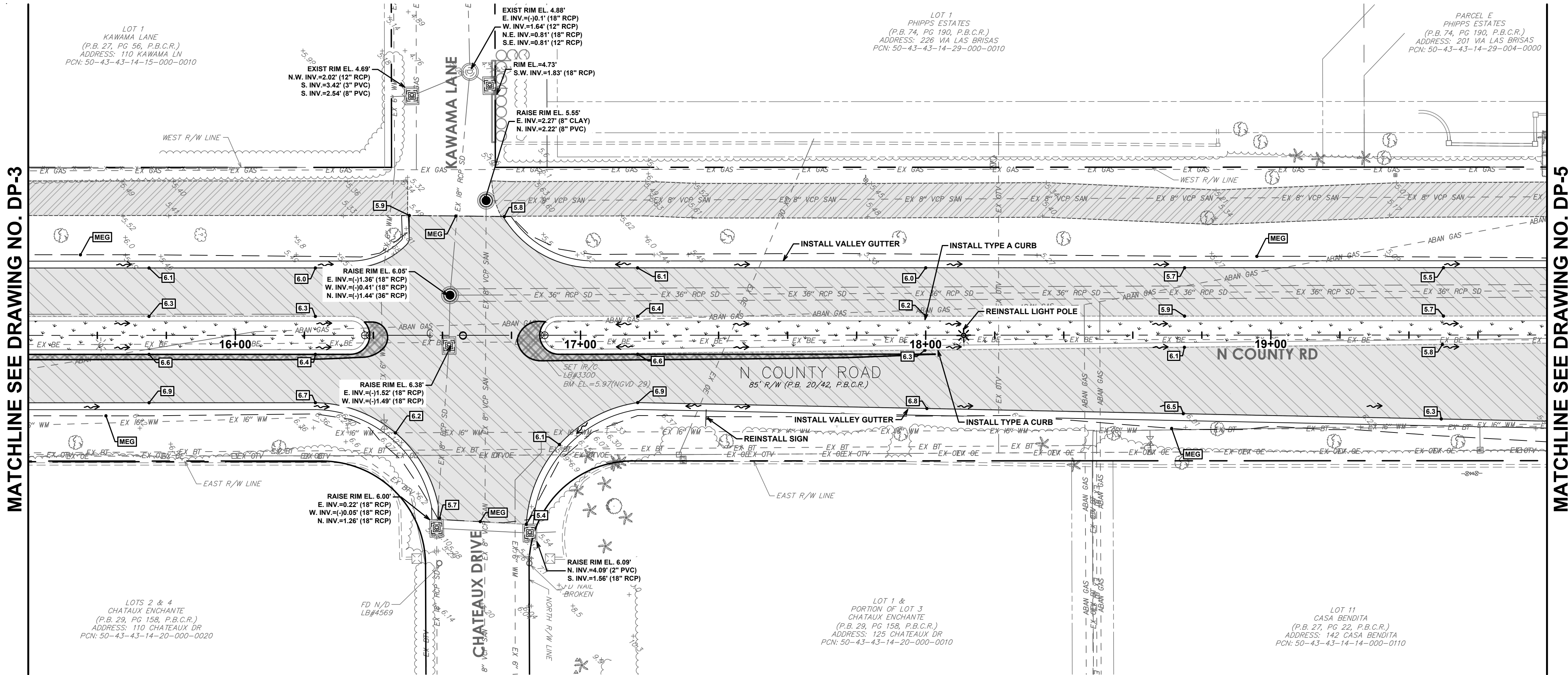
11 OF 24



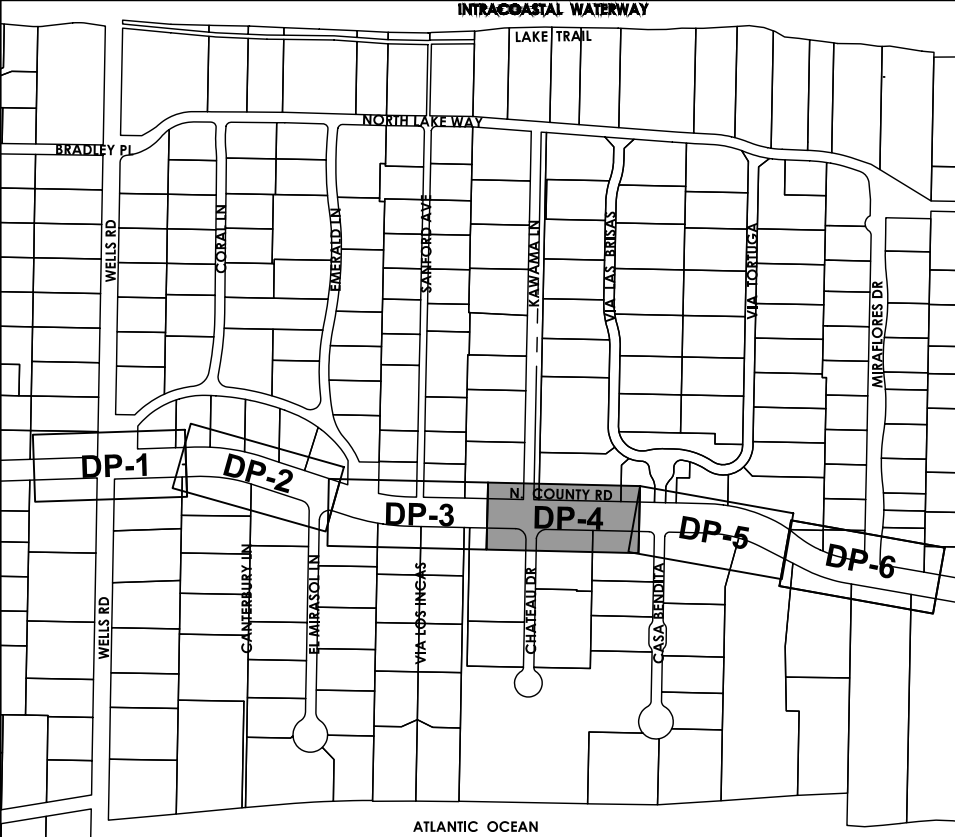
NOT FOR CONSTRUCTION



Plot Date: 12/22/2022 2:09:32 PM Username: abologna Layout Name: DP-3 Filename: 21-0431_000930 Drainage Improvements Plan and Profile.dwg
Folder Path: V:\Projects\2021\21-0431_000930 - north county road drainage improvements\Design\CAD Sheets



SCALE: 1"=20' HORIZ | 1"=2' VERT



KEY MAP

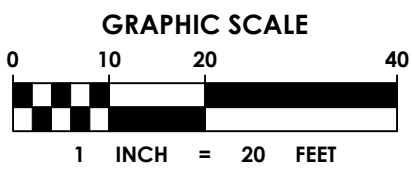
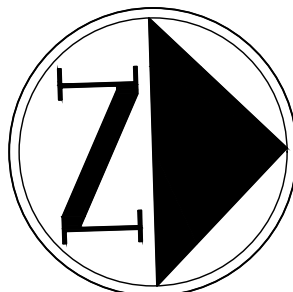
N.T.S.

LEGEND

- PROPOSED STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH
- PROPOSED CATCH BASIN OR INLET
- PROPOSED STORM MANHOLE
- PROPOSED ELEVATION
- PROPOSED SURFACE FLOW ARROW
- PROPOSED SOD
- FULL DEPTH OVERLAY
- FULL DEPTH RECONSTRUCTION

PAVING, GRADING AND DRAINAGE NOTES:

- ELEVATIONS SHOWN HEREON ARE IN FEET AND BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929)
- BENCHMARK DESCRIPTION: NATIONAL GEODETIC SURVEY BENCHMARKS, BRASS DISK "A 3101", P.I.D. = AD2870, ELEVATION = 3.17 FEET (NAVD 1988) AND 4.747 (NGVD 1929) & BRASS DISK STAMPED "E310 1970" TIDAL BM, P.I.D. = AD2862, ELEVATION = 6.92 FEET (NAVD 1988) AND 8.45 FEET (NGVD 1929).
- BENCHMARK DESCRIPTION: NATIONAL GEODETIC SURVEY BENCHMARK, 872 2607 B TIDAL, P.I.D. DJ9593, ELEVATION 3.59 FEET (NAVD 1988) AND 2.06 FEET (NGVD 1929).
- ALL SIDEWALKS SHALL MEET ALL A.D.A. REQUIREMENTS (5% MAX. LONGITUDINAL SLOPE AND 2% MAX. TRANSVERSE SLOPE).
- ALL INLETS SHALL BE TYPE "C" AND MANHOLES SHALL BE TYPE "P-7" 4'0", ALL H-20 RATED, UNLESS OTHERWISE NOTED ON PLAN.
- CONCRETE PIPE FOR STORM SEWERS SHALL CONFORM TO ASTM L76-79, TABLE III, WALL 8, OR LATEST REVISION. ALL PIPE SHALL HAVE MODIFIED TONGUE AND GROOVE JOINTS, AND HAVE RUBBER GASKETS, UNLESS OTHERWISE SPECIFIED.
- BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" DIAMETER.
- BACKFILL MATERIAL UNDER PAVED AREAS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- DRAINAGE STRUCTURES AND LINES TO BE CLEANED PRIOR TO ENGINEER'S ACCEPTANCE.



Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

NOT FOR CONSTRUCTION

REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

NORTH COUNTY ROAD DRAINAGE IMPROVEMENTS

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

DRAWN BY
JH

CHECKED BY
BW

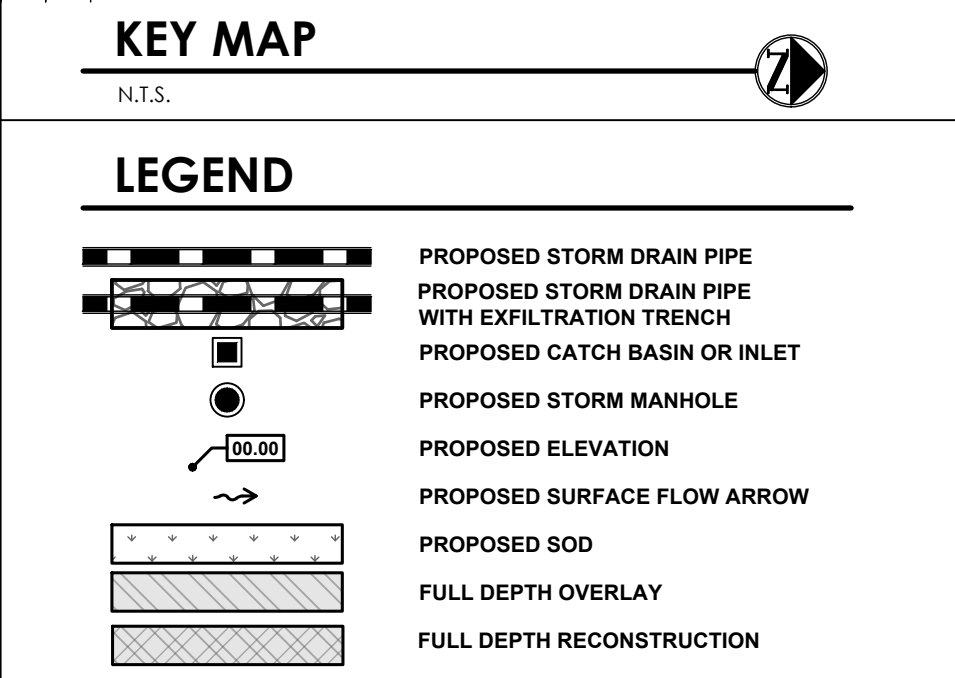
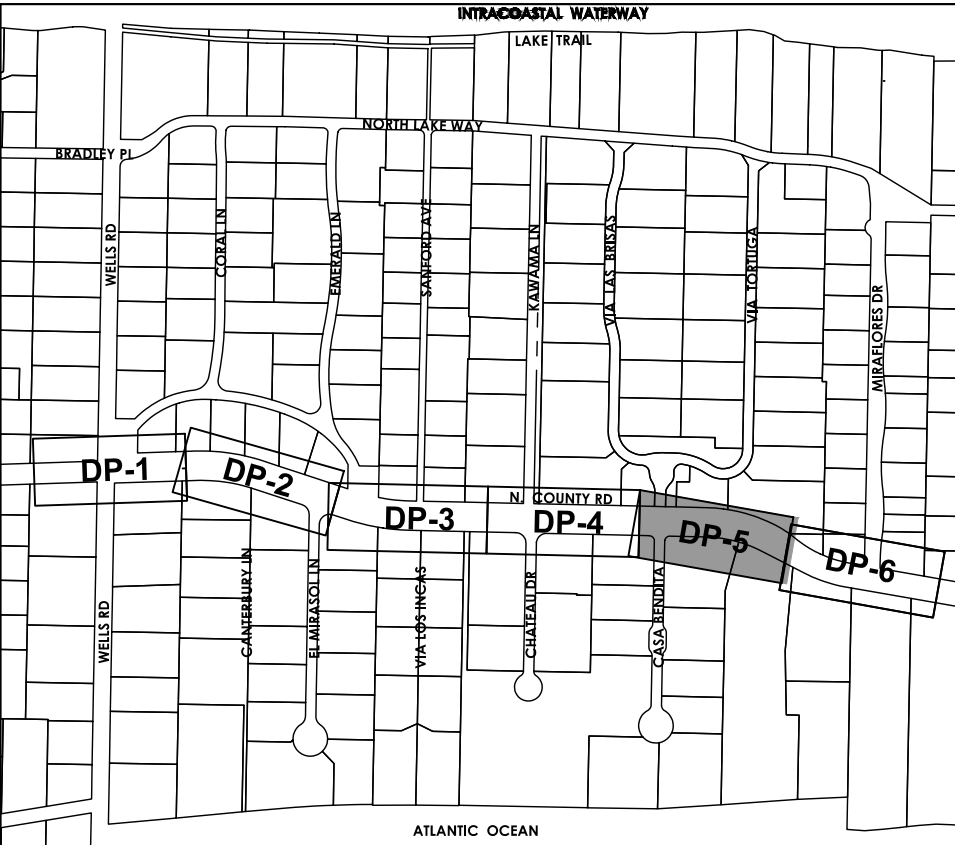
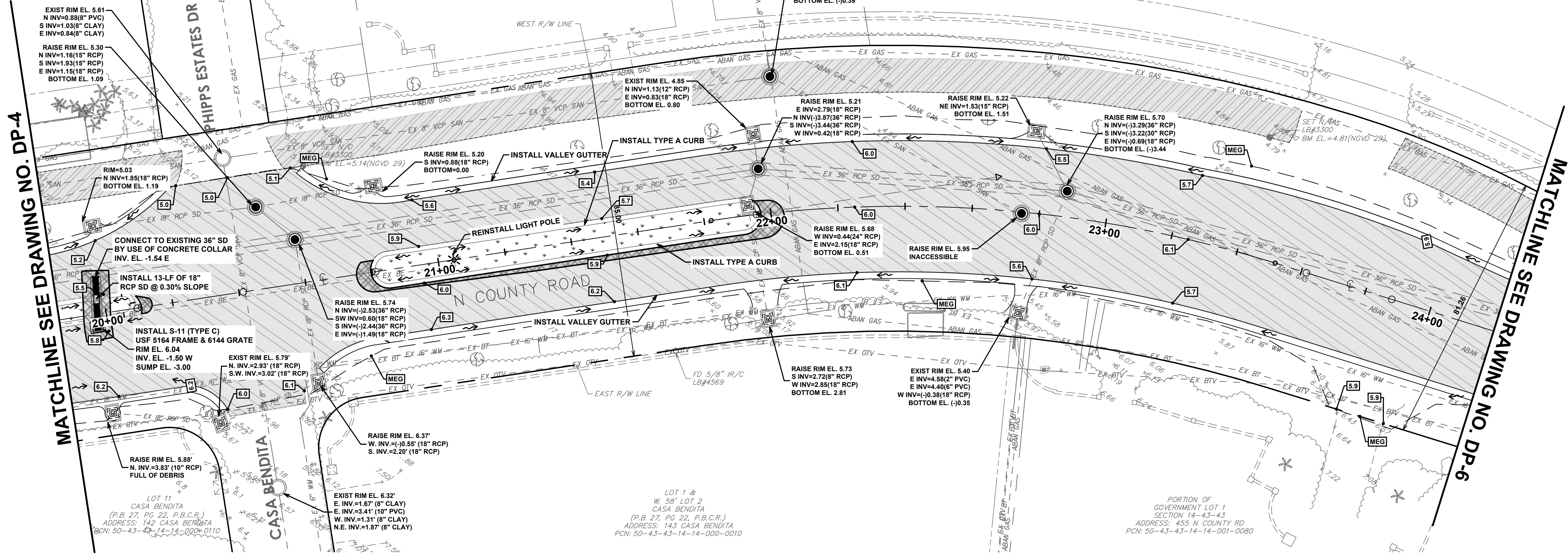
DRAWING TITLE

DRAINAGE IMPROVEMENTS PLAN AND PROFILE

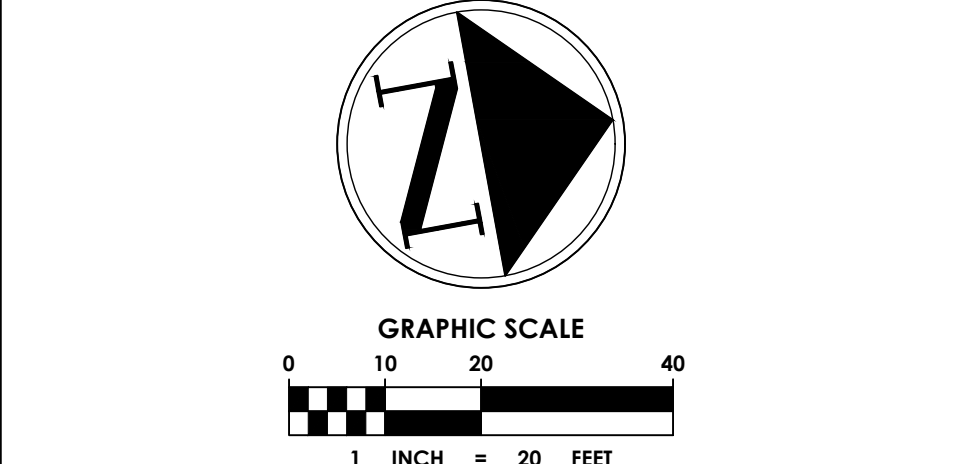
DRAWING NUMBER

DP-4

12 OF 24

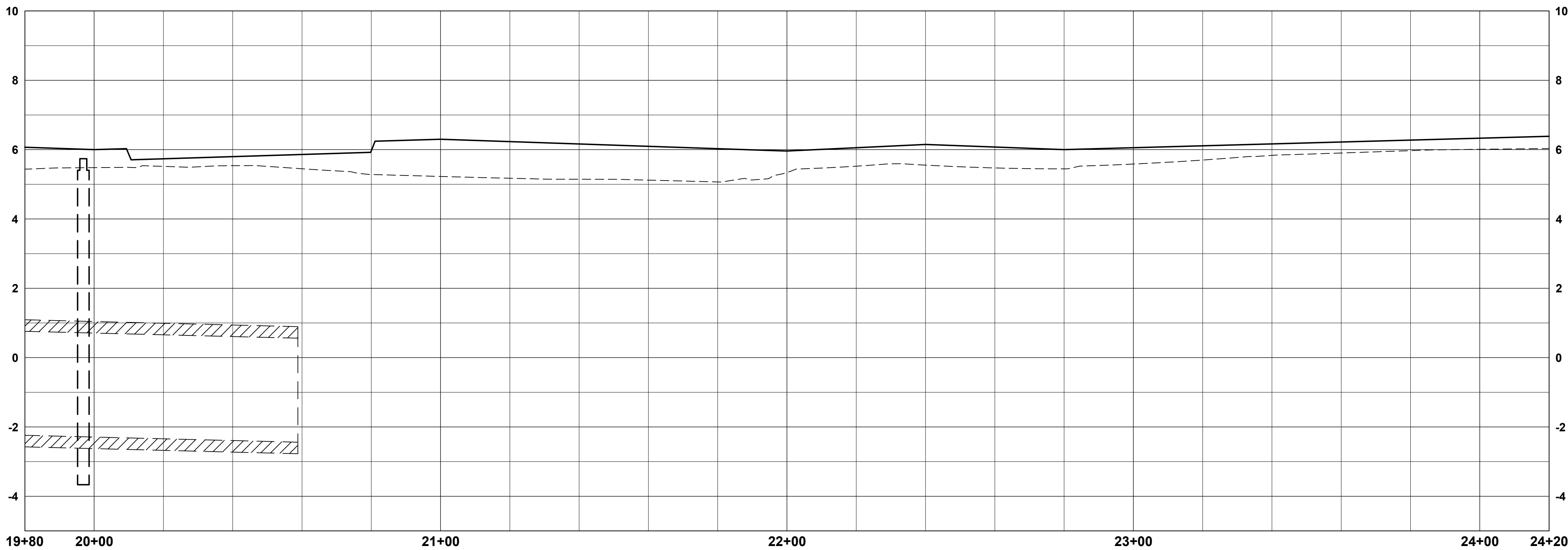


- PAVING, GRADING AND DRAINAGE NOTES:**
- ELEVATIONS SHOWN HEREON ARE IN FEET AND BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929)
 - BENCHMARK DESCRIPTION: NATIONAL GEODETIC SURVEY BENCHMARKS, BRASS DISK "A 310", P.I.D. = AD2870, ELEVATION = 3.17 FEET (NAVD 1988) AND 4.747 (NGVD 1929) & BRASS DISK STAMPED "E310 1970" TIDAL BM, P.I.D. = AD2862, ELEVATION = 6.92 FEET (NAVD 1988) AND 8.45 FEET (NGVD 1929).
 - BENCHMARK DESCRIPTION: NATIONAL GEODETIC SURVEY BENCHMARK, 872 2607 B TIDAL, P.I.D. DJ9593, ELEVATION 3.59 FEET (NAVD 1988) AND 2.06 FEET (NGVD 1929).
 - ALL SIDEWALKS SHALL MEET ALL A.D.A. REQUIREMENTS (5% MAX. LONGITUDINAL SLOPE AND 2% MAX. TRANSVERSE SLOPE).
 - ALL INLETS SHALL BE TYPE "C" AND MANHOLES SHALL BE TYPE "P-7" 4'0", ALL H-20 RATED, UNLESS OTHERWISE NOTED ON PLAN.
 - CONCRETE PIPE FOR STORM SEWERS SHALL CONFORM TO ASTM L76-79, TABLE III, WALL B, OR LATEST REVISION. ALL PIPE SHALL HAVE MODIFIED TONGUE AND GROOVE JOINTS, AND HAVE RUBBER GASKETS, UNLESS OTHERWISE SPECIFIED.
 - BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" DIAMETER.
 - BACKFILL MATERIAL UNDER PAVED AREAS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
 - BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
 - DRAINAGE STRUCTURES AND LINES TO BE CLEANED PRIOR TO ENGINEER'S ACCEPTANCE.



Sunshine811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
Check positive response codes before you dig!

NOT FOR CONSTRUCTION



SCALE: 1"=20' HORZ | 1"=2' VERT

ema
chen moore and associates
500 Australian Avenue South
Suite 850
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com

REGISTRATION

CLIENT

TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401
PROJECT INFORMATION

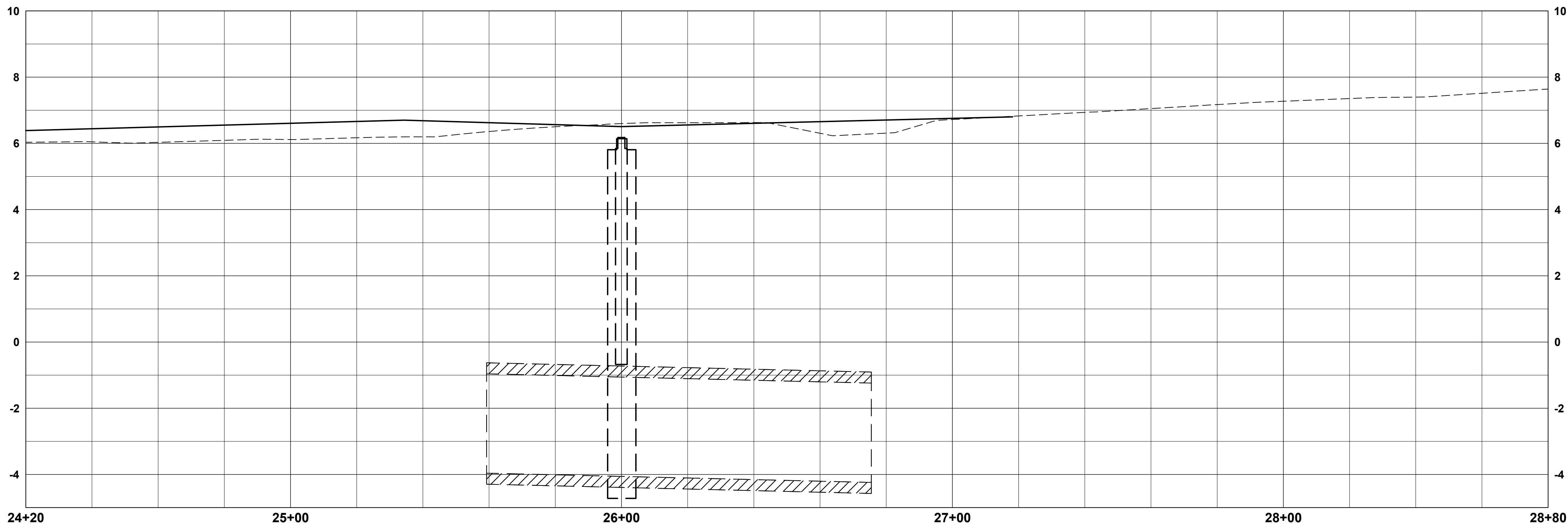
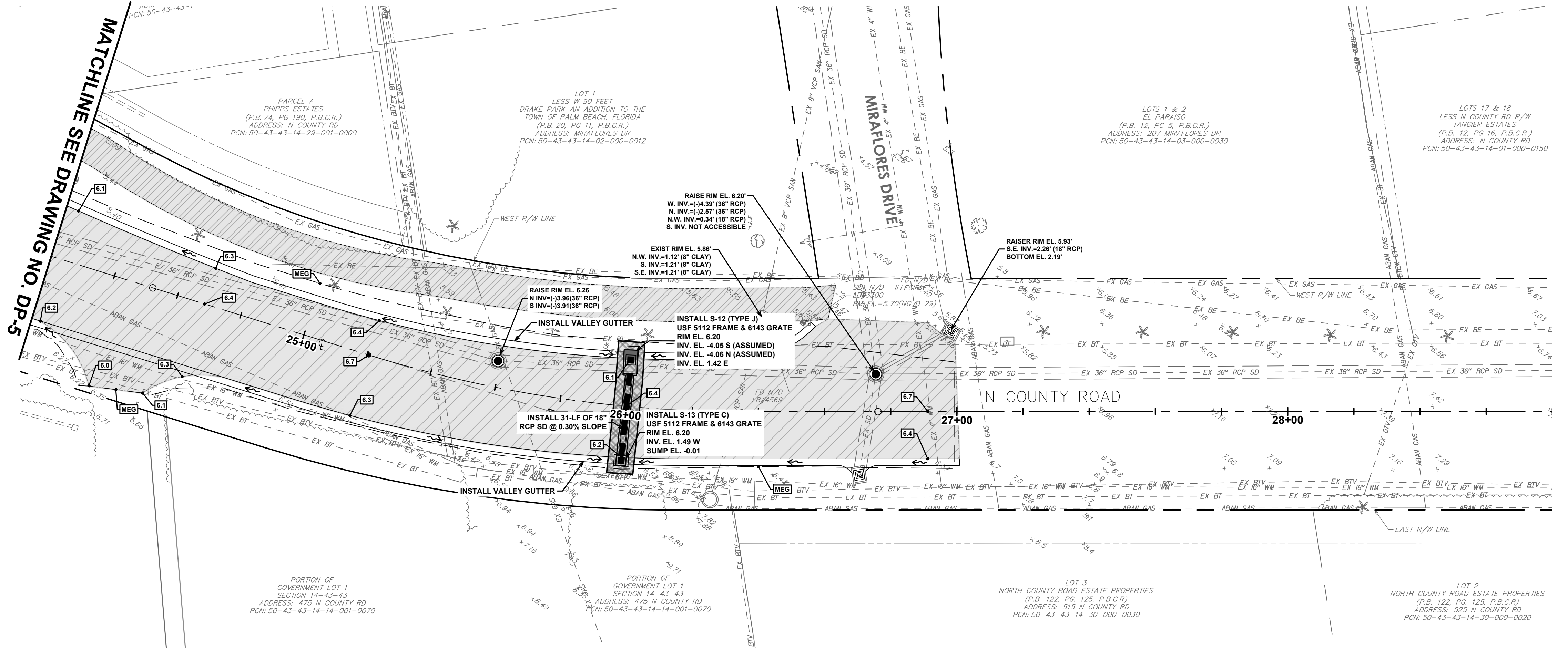
**NORTH COUNTY
ROAD DRAINAGE
IMPROVEMENTS**

TOWN OF PALM
BEACH, FLORIDA
PROJECT NUMBER
21-0431.00039
CLIENT PROJECT NUMBER

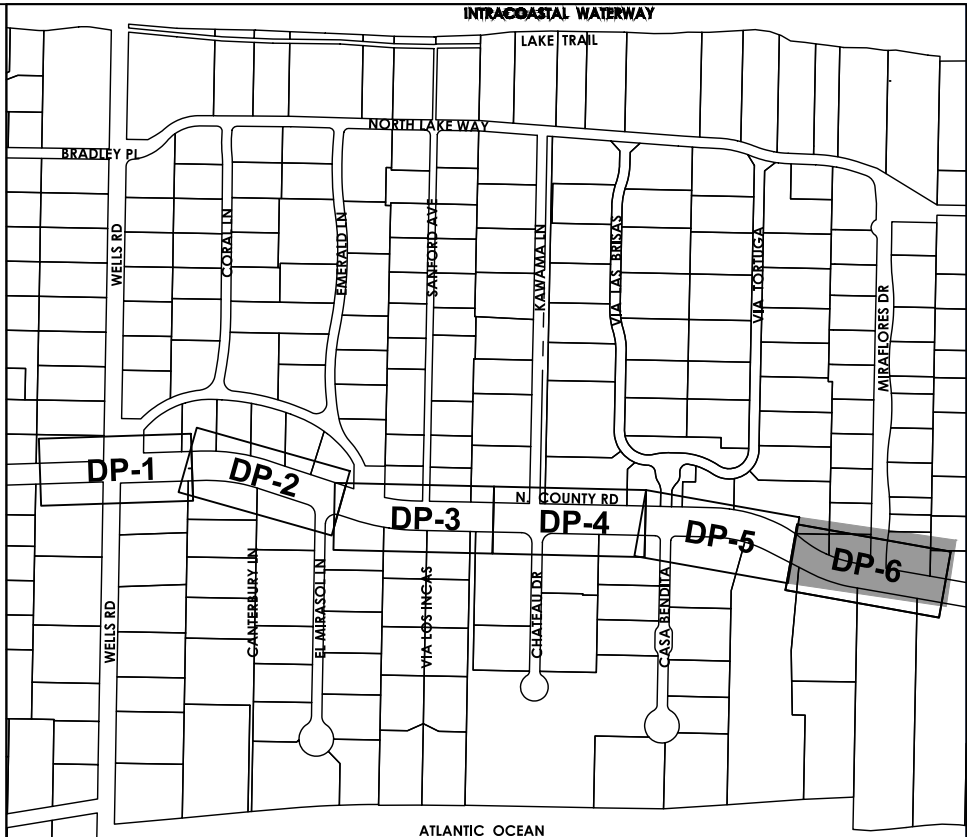
VERIFY SCALES
0 1" = 20' FEET
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY
REVISIONS

DATE OF ISSUE
12/22/2022
DESIGNED BY
DC
DRAWN BY
JH
CHECKED BY
BW
DRAWING TITLE

**DRAINAGE
IMPROVEMENTS
PLAN AND PROFILE**
DRAWING NUMBER
DP-5
13 OF 24



SCALE: 1"=20' HORZ | 1"=2' VERT



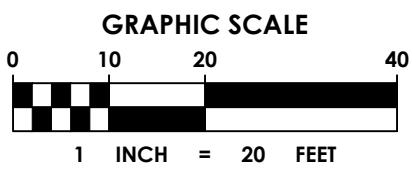
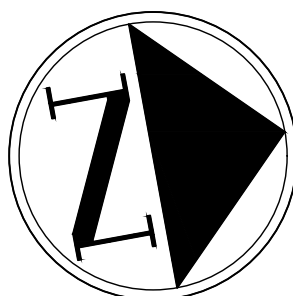
KEY MAP

LEGEND

- PROPOSED STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH
- PROPOSED CATCH BASIN OR INLET
- PROPOSED STORM MANHOLE
- PROPOSED ELEVATION
- PROPOSED SURFACE FLOW ARROW
- PROPOSED SOD
- FULL DEPTH OVERLAY
- FULL DEPTH RECONSTRUCTION

PAVING, GRADING AND DRAINAGE NOTES:

- ELEVATIONS SHOWN HEREON ARE IN FEET AND BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929)
- BENCHMARK DESCRIPTION: NATIONAL GEODETIC SURVEY BENCHMARKS, BRASS DISK "A 310", P.I.D. = AD2870, ELEVATION = 3.17 FEET (NAVD 1988) AND 4.747 (NGVD 1929) & BRASS DISK STAMPED "E310 1970" TIDAL BM, P.I.D. = AD2862, ELEVATION = 6.92 FEET (NAVD 1988) AND 8.45 FEET (NGVD 1929).
- BENCHMARK DESCRIPTION: NATIONAL GEODETIC SURVEY BENCHMARK, 872 2607 B TIDAL, P.I.D. DJ9593, ELEVATION 3.59 FEET (NAVD 1988) AND 2.06 FEET (NGVD 1929).
- ALL SIDEWALKS SHALL MEET ALL A.D.A. REQUIREMENTS (5% MAX. LONGITUDINAL SLOPE AND 2% MAX. TRANSVERSE SLOPE).
- ALL INLETS SHALL BE TYPE "C" AND MANHOLES SHALL BE TYPE "P-7" 4'0", ALL H-20 RATED, UNLESS OTHERWISE NOTED ON PLAN.
- CONCRETE PIPE FOR STORM SEWERS SHALL CONFORM TO ASTM L76-79, TABLE III, WALL B, OR LATEST REVISION. ALL PIPE SHALL HAVE MODIFIED TONGUE AND GROOVE JOINTS, AND HAVE RUBBER GASKETS, UNLESS OTHERWISE SPECIFIED.
- BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" DIAMETER.
- BACKFILL MATERIAL UNDER PAVED AREAS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- DRAINAGE STRUCTURES AND LINES TO BE CLEANED PRIOR TO ENGINEER'S ACCEPTANCE.



Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

NOT FOR CONSTRUCTION

REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

NORTH COUNTY
ROAD DRAINAGE
IMPROVEMENTS

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

DRAWN BY
JH

CHECKED BY
BW

DRAWING TITLE

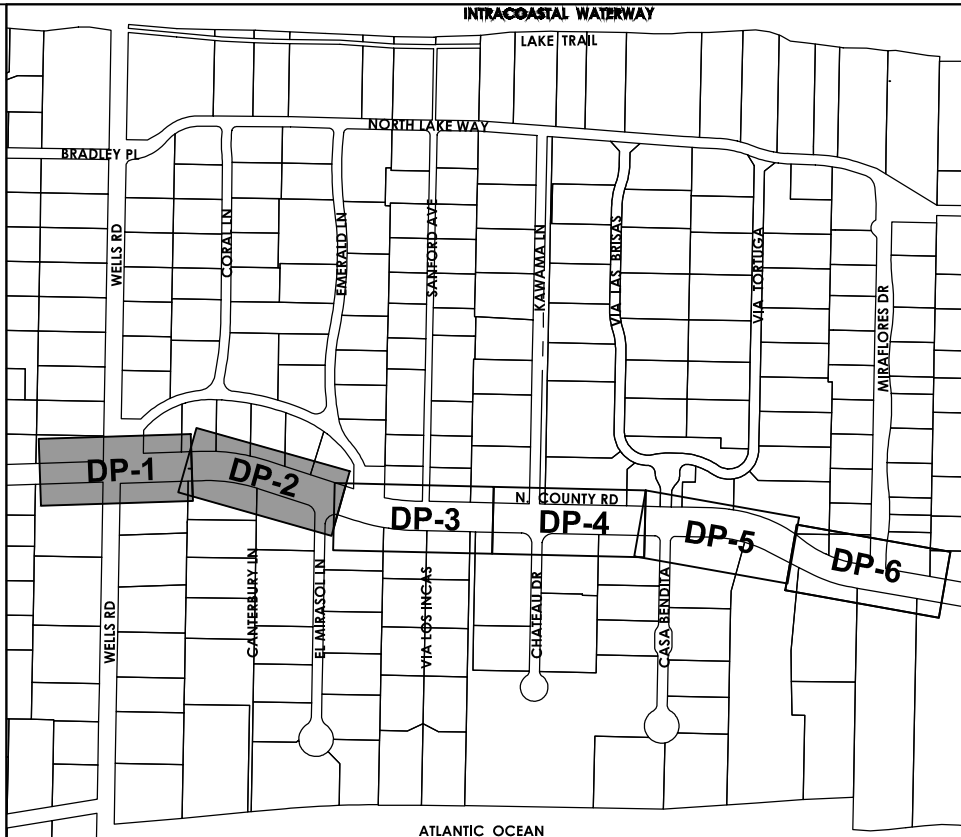
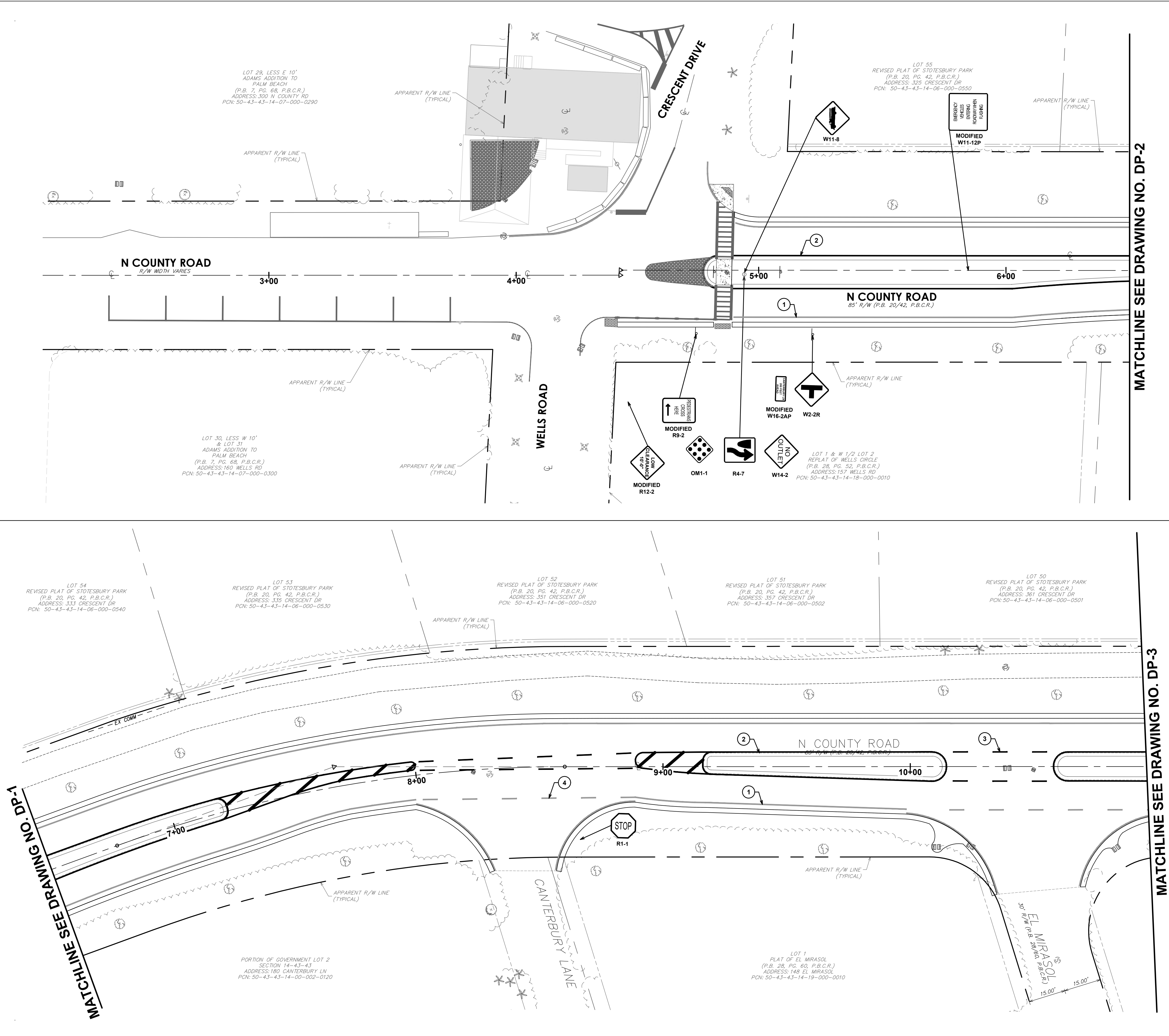
DRAINAGE
IMPROVEMENTS
PLAN AND PROFILE

DRAWING NUMBER

DP-6

14 OF 24

Plot Date: 12/22/2022 3:21:07 PM Username: abologna Layout Name: SS-1
Folder Path: V:\Projects\2021\21-0431.00039 - north county road drainage improvements\Design\CAD\Sheets Filename: 21-0431.00039 striping and signage.dwg



KEY MAP

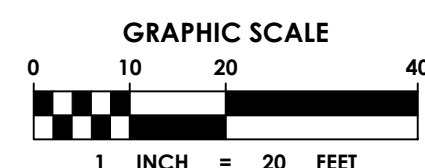
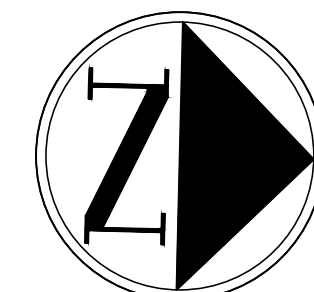
N.T.S.

LEGEND

- | | | |
|---|--|------------------------------|
| 1 | | PROPOSED 6" WHITE SOLID |
| 2 | | PROPOSED 6" YELLOW SOLID |
| 3 | | PROPOSED 6" YELLOW 6-10 SKIP |
| 4 | | PROPOSED 6" WHITE 6-10 SKIP |

SIGNING AND MARKING NOTES:

- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
- BI-DIRECTIONAL YELLOW/YELLOW REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 40' INTERVALS CENTERED BETWEEN YELLOW SKIP STRIPES.
- ONE BI-DIRECTIONAL YELLOW/YELLOW REFLECTIVE MARKER SHALL BE PROVIDED AT 40' INTERVALS ON EACH SIDE OF DOUBLE YELLOW STRIPES.
- ONE BI-DIRECTIONAL YELLOW/YELLOW REFLECTIVE PAVEMENT MARKER SHALL BE PROVIDED AT EACH END OF 18" YELLOW STRIPES ON EACH SIDE OF DOUBLE YELLOW STRIPES.
- BI-DIRECTIONAL COLORLESS/RED REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 20' INTERVALS ALONG SOLID WHITE LINES (NOT ON EDGE OF PAVEMENT LINES).
- BI-DIRECTIONAL YELLOW/YELLOW REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 1' INTERVALS AT ALL BULLNOSES.
- ALL SIGNING, PAVEMENT MARKINGS AND PLACEMENT OF REFLECTIVE PAVEMENT MARKERS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MANUAL (MUTCD), LATEST VERSION.
- ALL PAVEMENT MARKING SHALL BE HOT APPLIED THERMOPLASTIC MANUFACTURED AND APPLIED IN ACCORDANCE WITH FOOT STANDARD SPECIFICATION SECTION 711, LATEST EDITION.
- REFLECTIVE PAVEMENT MARKERS SHALL BE CLASS B MARKERS MANUFACTURED IN ACCORDANCE WITH FOOT STANDARD SPECIFICATION 706, LATEST EDITION AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES.
- ALL SIGNS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL 'R1-1' & 'D3' SIGNS SHALL BE DIAMOND GRADE.
- THE PUBLIC ROADWAYS INDICATED IN THESE PLANS HAVE BEEN DESIGNED SUBSTANTIALLY IN ACCORDANCE WITH 'THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS-STATE OF FLORIDA'.
- METHOD OF REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE BY WATER JETTING OR SAND BLASTING.
- THE CONTRACTOR SHALL VERIFY PROPER STREET NAMES AND NUMBERS WITH AN APPROVED ADDRESS PLAN PRIOR TO ORDERING AND INSTALLING 'D3' SIGNS.



Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

NOT FOR CONSTRUCTION

REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

NORTH COUNTY ROAD DRAINAGE IMPROVEMENTS

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

DRAWN BY
JH

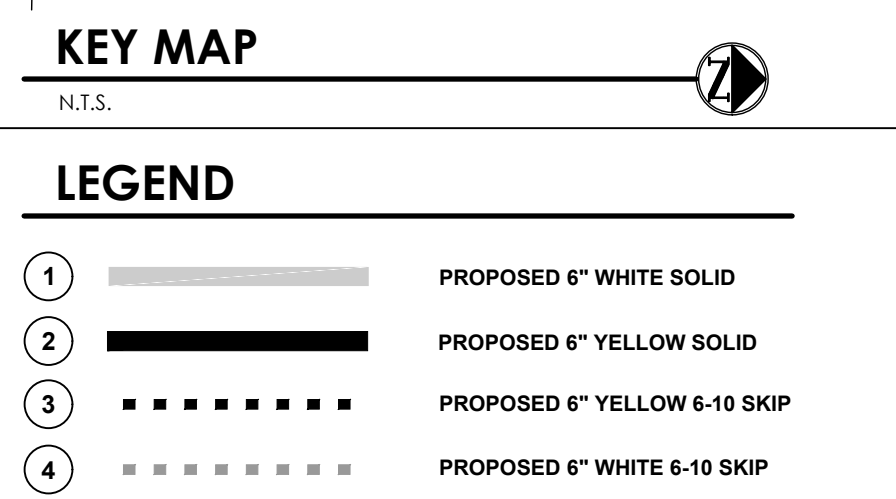
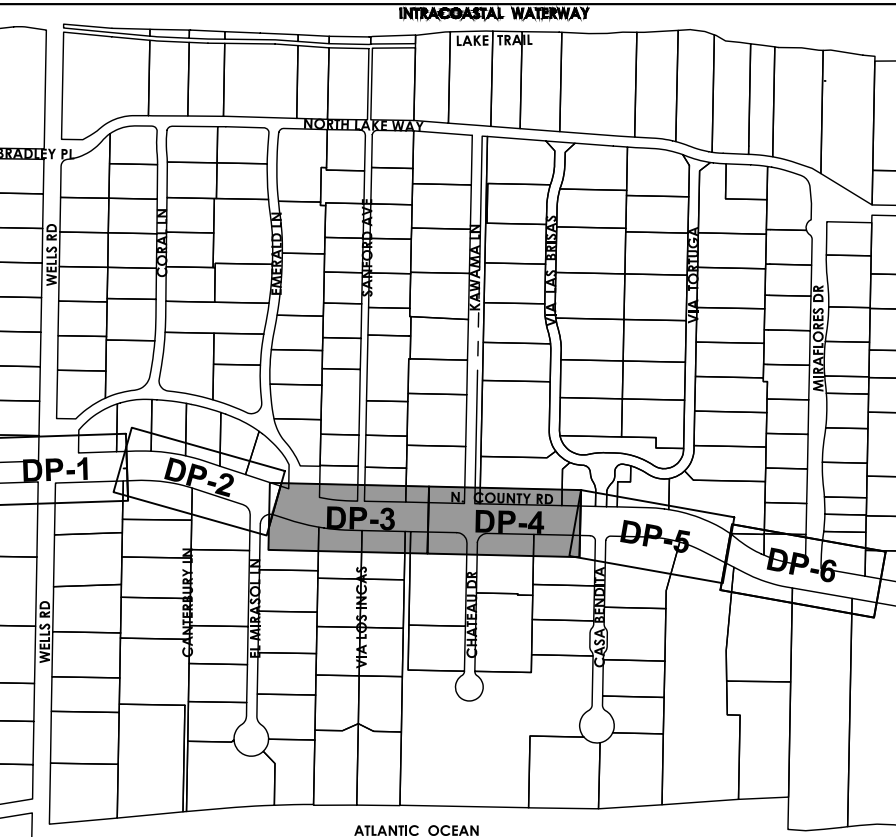
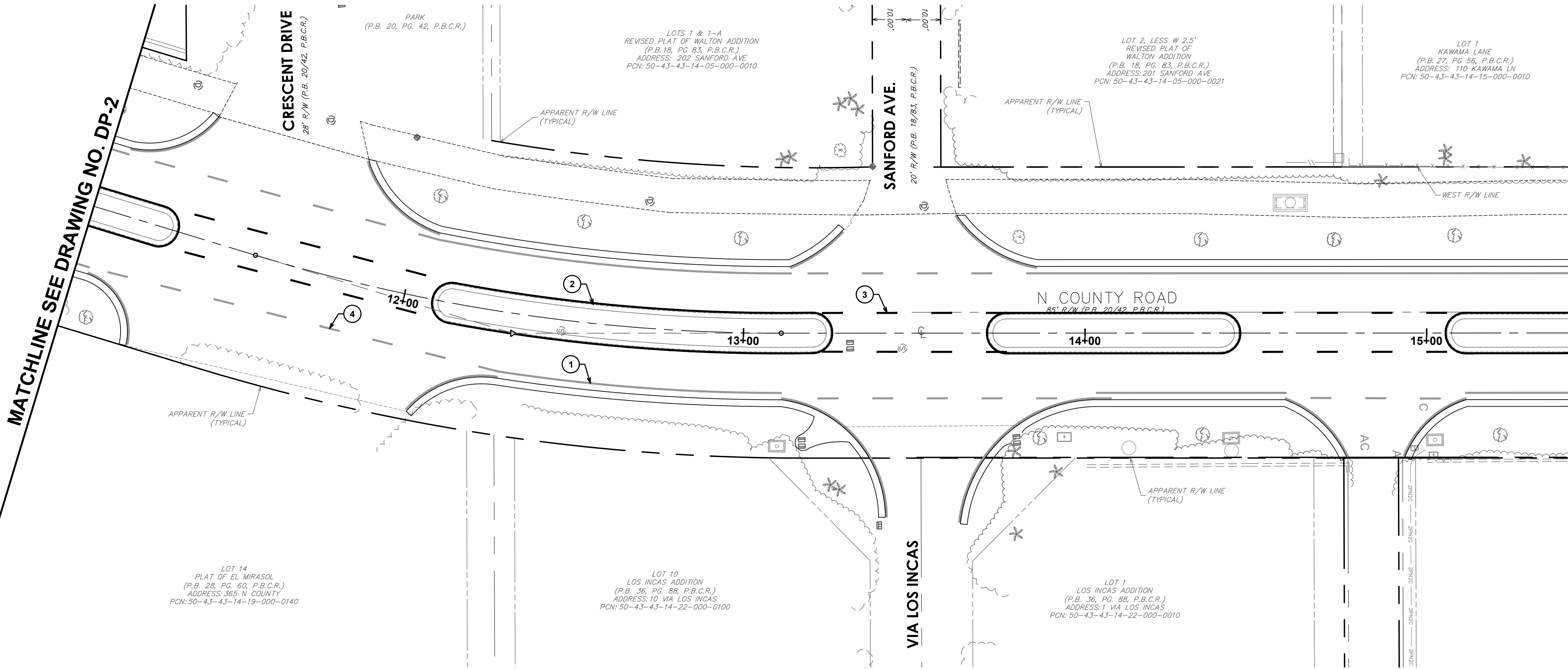
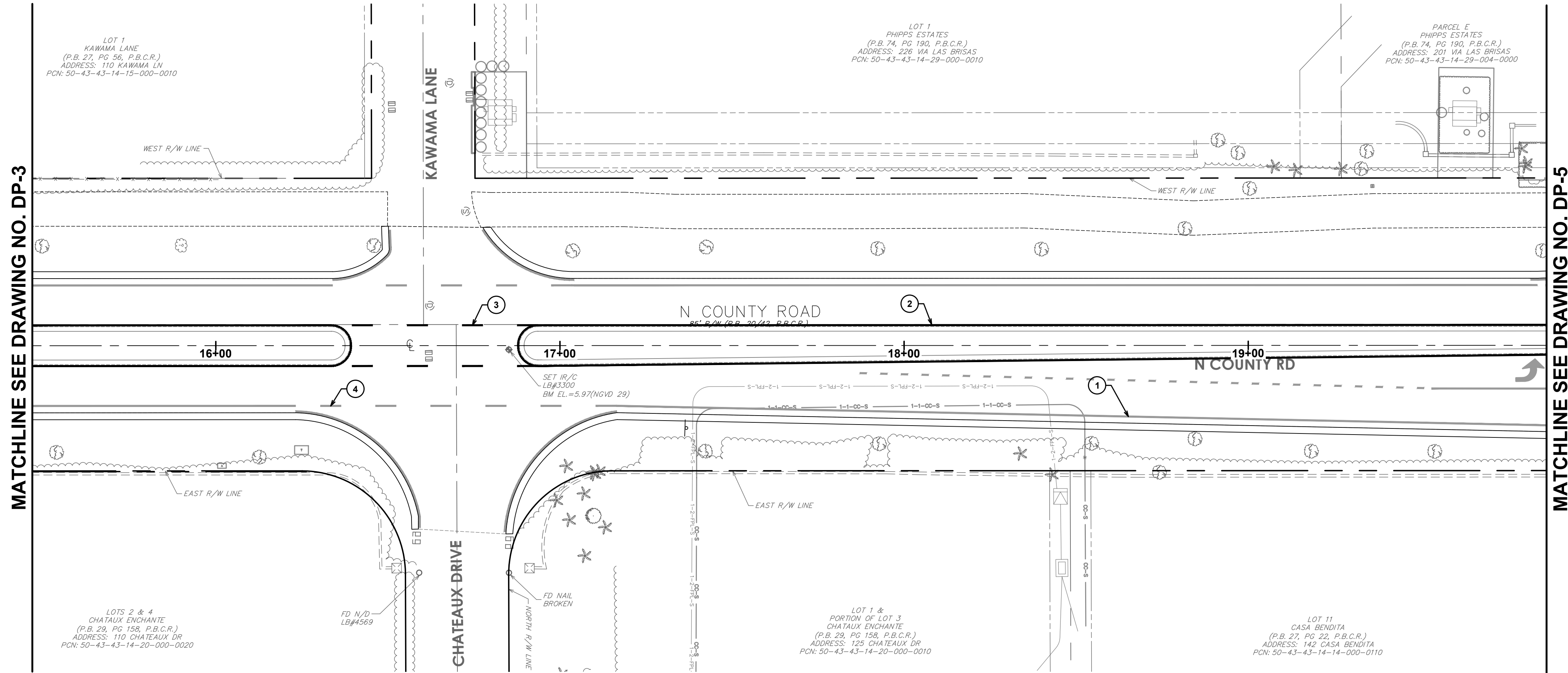
CHECKED BY
BW

DRAWING TITLE

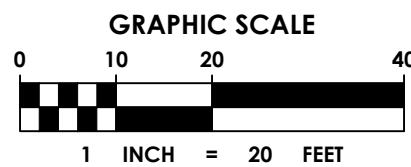
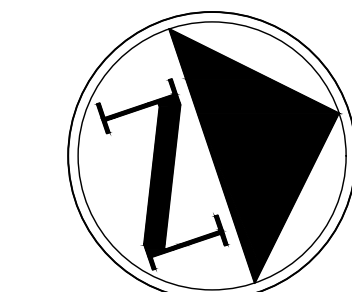
STRIPING AND
SIGNAGE PLAN

DRAWING NUMBER

SS-1
15 OF 24



- SIGNING AND MARKING NOTES:**
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
 - BI-DIRECTIONAL YELLOW/YELLOW REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 40' INTERVALS CENTERED BETWEEN YELLOW SKIP STRIPES.
 - ONE BI-DIRECTIONAL YELLOW/YELLOW REFLECTIVE MARKER SHALL BE PROVIDED AT 40' INTERVALS ON EACH SIDE OF DOUBLE YELLOW STRIPES.
 - ONE BI-DIRECTIONAL YELLOW/YELLOW REFLECTIVE PAVEMENT MARKER SHALL BE PROVIDED AT EACH END OF 18" YELLOW STRIPES ON EACH SIDE OF DOUBLE YELLOW STRIPES.
 - BI-DIRECTIONAL COLORLESS/RED REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 20' INTERVALS ALONG SOLID WHITE LINES (NOT ON EDGE OF PAVEMENT LINES).
 - BI-DIRECTIONAL YELLOW/YELLOW REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 1' INTERVALS AT ALL BULLNOSES.
 - ALL SIGNING, PAVEMENT MARKINGS AND PLACEMENT OF REFLECTIVE PAVEMENT MARKERS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MANUAL (MUTCD), LATEST VERSION.
 - ALL PAVEMENT MARKING SHALL BE HOT APPLIED THERMOPLASTIC MANUFACTURED AND APPLIED IN ACCORDANCE WITH FOOT STANDARD SPECIFICATION SECTION 711, LATEST EDITION.
 - REFLECTIVE PAVEMENT MARKERS SHALL BE CLASS B MARKERS MANUFACTURED IN ACCORDANCE WITH FOOT STANDARD SPECIFICATION 706, LATEST EDITION AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES.
 - ALL SIGNS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - ALL 'R1-1' & 'D3' SIGNS SHALL BE DIAMOND GRADE.
 - THE PUBLIC ROADWAYS INDICATED IN THESE PLANS HAVE BEEN DESIGNED SUBSTANTIALLY IN ACCORDANCE WITH 'THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS-STATE OF FLORIDA'.
 - METHOD OF REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE BY WATER JETTING OR SAND BLASTING.
 - THE CONTRACTOR SHALL VERIFY PROPER STREET NAMES AND NUMBERS WITH AN APPROVED ADDRESS PLAN PRIOR TO ORDERING AND INSTALLING 'D3' SIGNS.



Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

NOT FOR CONSTRUCTION

REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

**NORTH COUNTY
ROAD DRAINAGE
IMPROVEMENTS**

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

DRAWN BY
JH

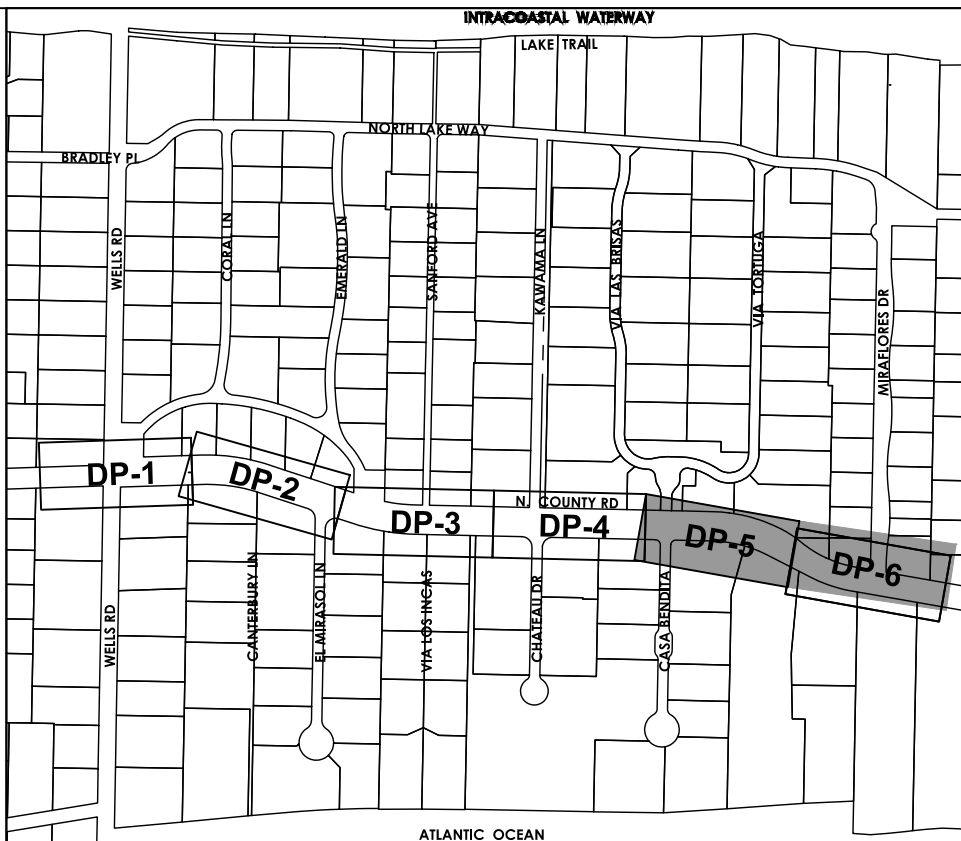
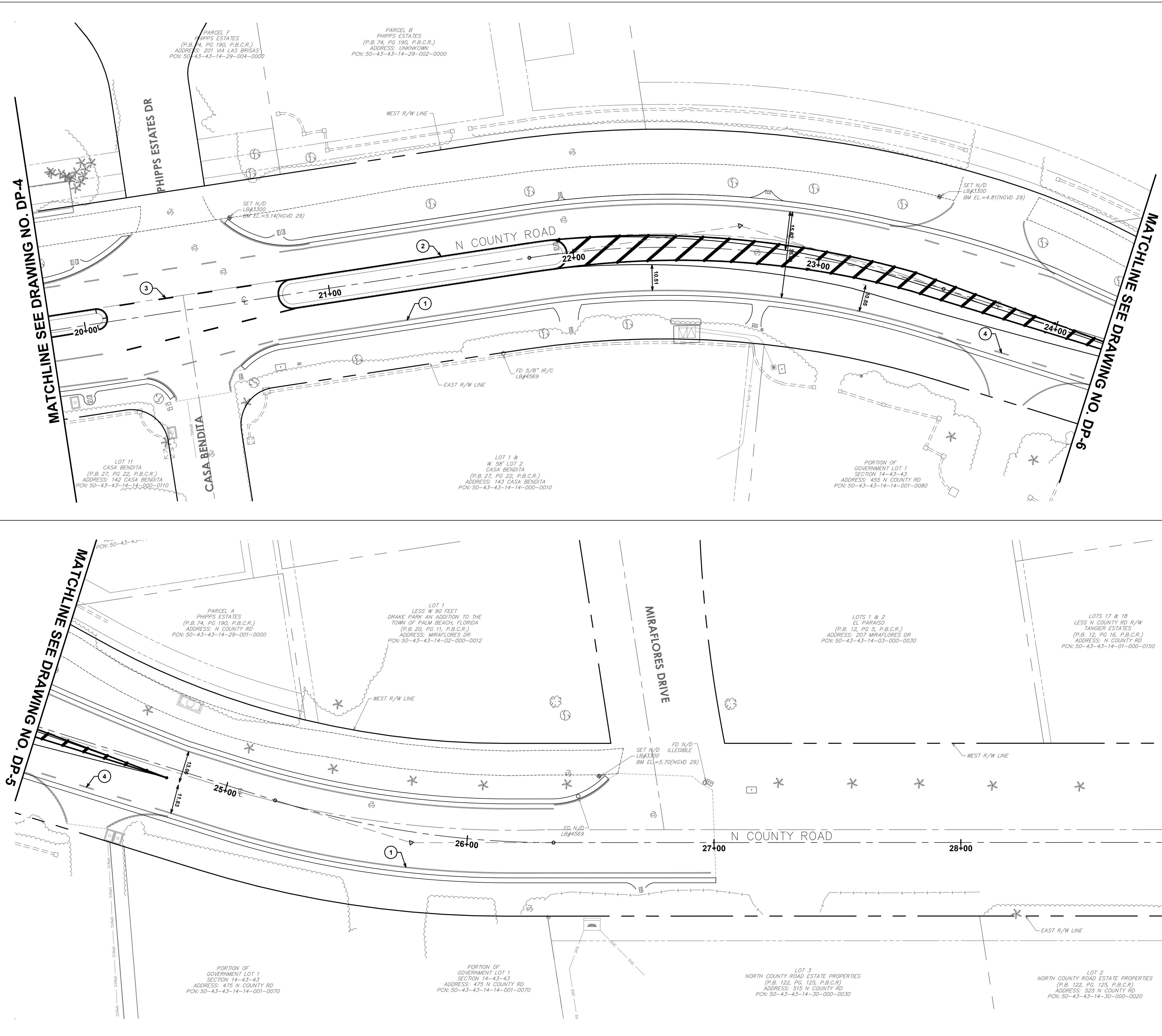
CHECKED BY
BW

DRAWING TITLE

**STRIPING AND
SIGNAGE PLAN**

DRAWING NUMBER

SS-2
16 OF 24



KEY MAP

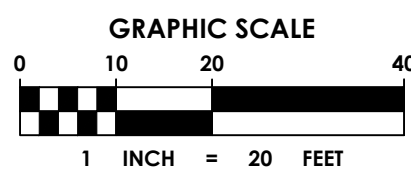
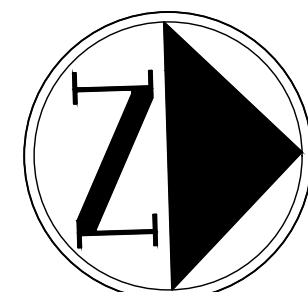
N.T.S.

LEGEND

- | | | |
|---|--|------------------------------|
| ① | | PROPOSED 6" WHITE SOLID |
| ② | | PROPOSED 6" YELLOW SOLID |
| ③ | | PROPOSED 6" YELLOW 6-10 SKIP |
| ④ | | PROPOSED 6" WHITE 6-10 SKIP |

SIGNING AND MARKING NOTES:

- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
- BI-DIRECTIONAL YELLOW/YELLOW REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 40' INTERVALS CENTERED BETWEEN YELLOW SKIP STRIPES.
- ONE BI-DIRECTIONAL YELLOW/YELLOW REFLECTIVE MARKER SHALL BE PROVIDED AT 20' INTERVALS ON EACH SIDE OF DOUBLE YELLOW STRIPES.
- ONE BI-DIRECTIONAL YELLOW/YELLOW REFLECTIVE PAVEMENT MARKER SHALL BE PROVIDED AT EACH END OF 18" YELLOW STRIPES ON EACH SIDE OF DOUBLE YELLOW STRIPES.
- BI-DIRECTIONAL COLORLESS/RED REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 20' INTERVALS ALONG SOLID WHITE LINES (NOT ON EDGE OF PAVEMENT LINES).
- BI-DIRECTIONAL YELLOW/YELLOW REFLECTIVE PAVEMENT MARKERS SHALL BE PROVIDED AT 1' INTERVALS AT ALL BULLNOSES.
- ALL SIGNING, PAVEMENT MARKINGS AND PLACEMENT OF REFLECTIVE PAVEMENT MARKERS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MANUAL (MUTCD), LATEST VERSION.
- ALL PAVEMENT MARKING SHALL BE HOT APPLIED THERMOPLASTIC MANUFACTURED AND APPLIED IN ACCORDANCE WITH FOOT STANDARD SPECIFICATION SECTION 711, LATEST EDITION.
- REFLECTIVE PAVEMENT MARKERS SHALL BE CLASS B MARKERS MANUFACTURED IN ACCORDANCE WITH FOOT STANDARD SPECIFICATION 706, LATEST EDITION AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES.
- ALL SIGNS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL 'R1-1' & 'D3' SIGNS SHALL BE DIAMOND GRADE.
- THE PUBLIC ROADWAYS INDICATED IN THESE PLANS HAVE BEEN DESIGNED SUBSTANTIALLY IN ACCORDANCE WITH 'THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS-STATE OF FLORIDA'.
- METHOD OF REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE BY WATER JETTING OR SAND BLASTING.
- THE CONTRACTOR SHALL VERIFY PROPER STREET NAMES AND NUMBERS WITH AN APPROVED ADDRESS PLAN PRIOR TO ORDERING AND INSTALLING 'D3' SIGNS.



Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

NOT FOR CONSTRUCTION

REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

NORTH COUNTY ROAD DRAINAGE IMPROVEMENTS

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1"

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

DRAWN BY
JH

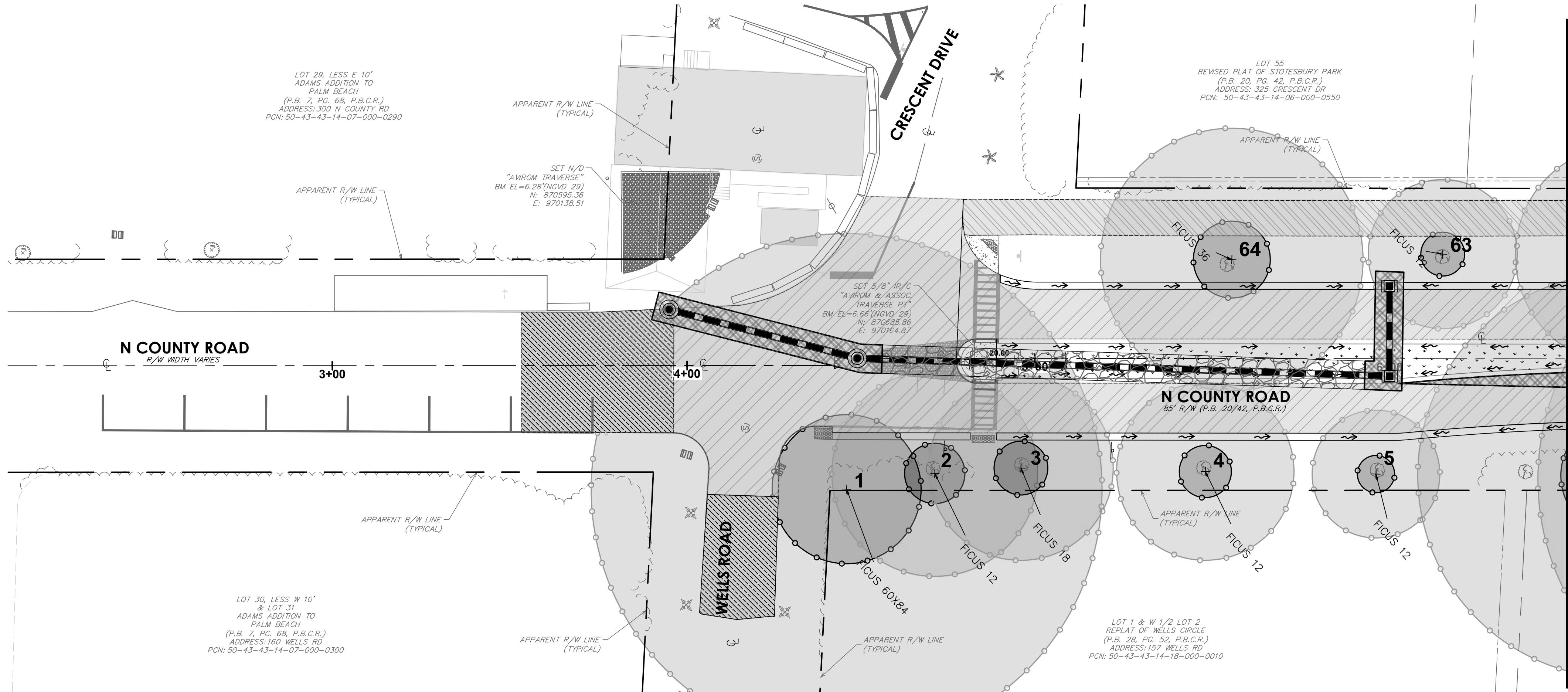
CHECKED BY
BW

DRAWING TITLE

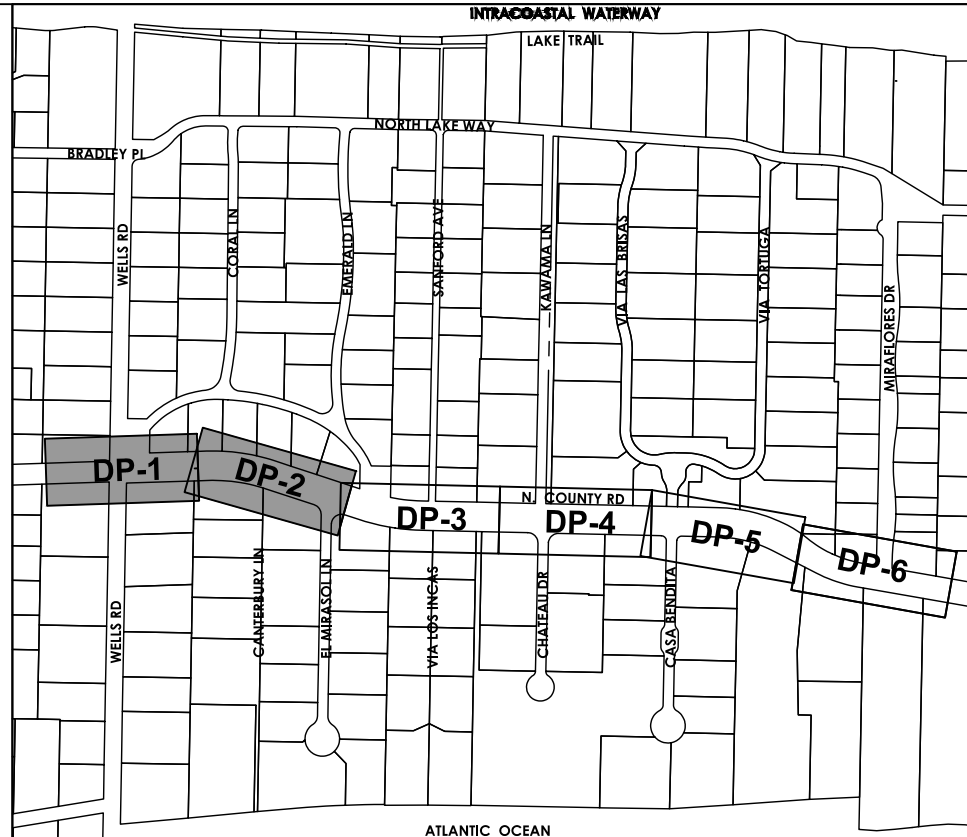
STRIPING AND SIGNAGE PLAN

DRAWING NUMBER

SS-3
17 OF 24



MATCHLINE SEE DRAWING NO. DP-2



KEY MAP

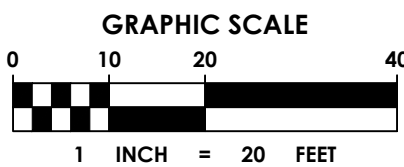
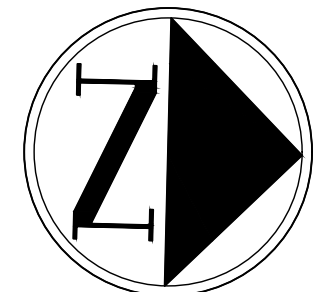
N.T.S.

LEGEND

- PROPOSED STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH
- PROPOSED CATCH BASIN OR INLET
- PROPOSED STORM MANHOLE
- PROPOSED SURFACE FLOW ARROW
- PROPOSED SOD
- FULL DEPTH OVERLAY
- FULL DEPTH RECONSTRUCTION
- CRITICAL ROOT ZONE
- MINIMAL ROOT ZONE

TREE PROTECTION NOTES:

- CONTACT MARSHALL AT KING TREE SERVICE AT 561-657-1662 PRIOR TO STARTING ANY CONSTRUCTION ON THIS PROJECT. THE EXISTING TREE BARRICADES MUST BE IN PLACE AND MARSHALL SHALL COORDINATE ROOT PRUNING ALONG THE EDGE OF PAVEMENT WHERE THE VALLEY GUTTER AND OTHER EXCAVATION HAS BEEN PROPOSED. THE ROOT PRUNING IS EXTREMELY IMPORTANT TO THE SURVIVAL OF THE EXISTING TREES WITHIN THIS LIMIT OF WORK.
- ROOTS MAY NOT BE TORN OFF WITH POWER EQUIPMENT, AND CUT ROOTS SHALL NOT BE LEFT WITH RIPPED, RAGGED OR SHREDDED ENDS. ROOTS MUST BE CLEANLY SEVERED WITH SHARP HAND TOOLS OR POWER ROOT SAWS.
- PRUNING TRENCHES SHALL BE BACKFILLED WITH NATIVE SOILS, FREE OF DEBRIS.
- WHEN A ROOT WITH A DIAMETER OF TWO INCHES OR GREATER IS ENCOUNTERED, A FINAL CLEAN CUT SHALL BE MADE WITH A SAW. THE CUT SHALL BE MADE FLUSH WITH THE SIDE OF THE TRENCH CLOSEST TO THE TREE.
- WHEN ADJACENT TO NEW CURBING, UNCURRED PAVED AREAS, OR AREAS OF GRADE CHANGES, ROOTS SHALL BE CUT NO MORE THAN 18 INCHES TOWARDS THE TREE FROM THE BACK OF THE CURB, THE EDGE OF THE PAVEMENT, OR THE POINT OF INTERSECTION OF OLD AND NEW GRADES, RESPECTIVELY. AFTER ROOT PRUNING, NO EXCAVATION FOR THE INSTALLATION OF FORMS OR FOR ANY OTHER REASON MAY BE PERFORMED ANY CLOSER THAN SIX INCHES OUTSIDE OF THE ROOT PRUNING CUT. THE ROOT PRUNING TRENCH SHALL BE BACKFILLED WITH NATIVE SOIL.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY TREES IN NEED OF SUPPLEMENTAL SUPPORT FOLLOWING ROOT PRUNING. PRIOR TO COMMENCEMENT OF ROOT PRUNING, THE CONTRACTOR SHALL FURNISH A SUPPLEMENTAL SUPPORT PLAN WHICH IDENTIFIES EACH TREE IN NEED OF TEMPORARY SUPPLEMENTAL SUPPORT AND PROPOSE A STAKING/GUYSING SYSTEM. THE CONTRACTOR SHALL INSTALL THE APPROVED SUPPORT SYSTEMS IMMEDIATELY FOLLOWING ROOT PRUNING.



Check positive response codes before you dig!

NOT FOR CONSTRUCTION

REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

NORTH COUNTY ROAD DRAINAGE IMPROVEMENTS

TOWN OF PALM BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1" 10 20 40
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

DRAWN BY
JH

CHECKED BY
BW

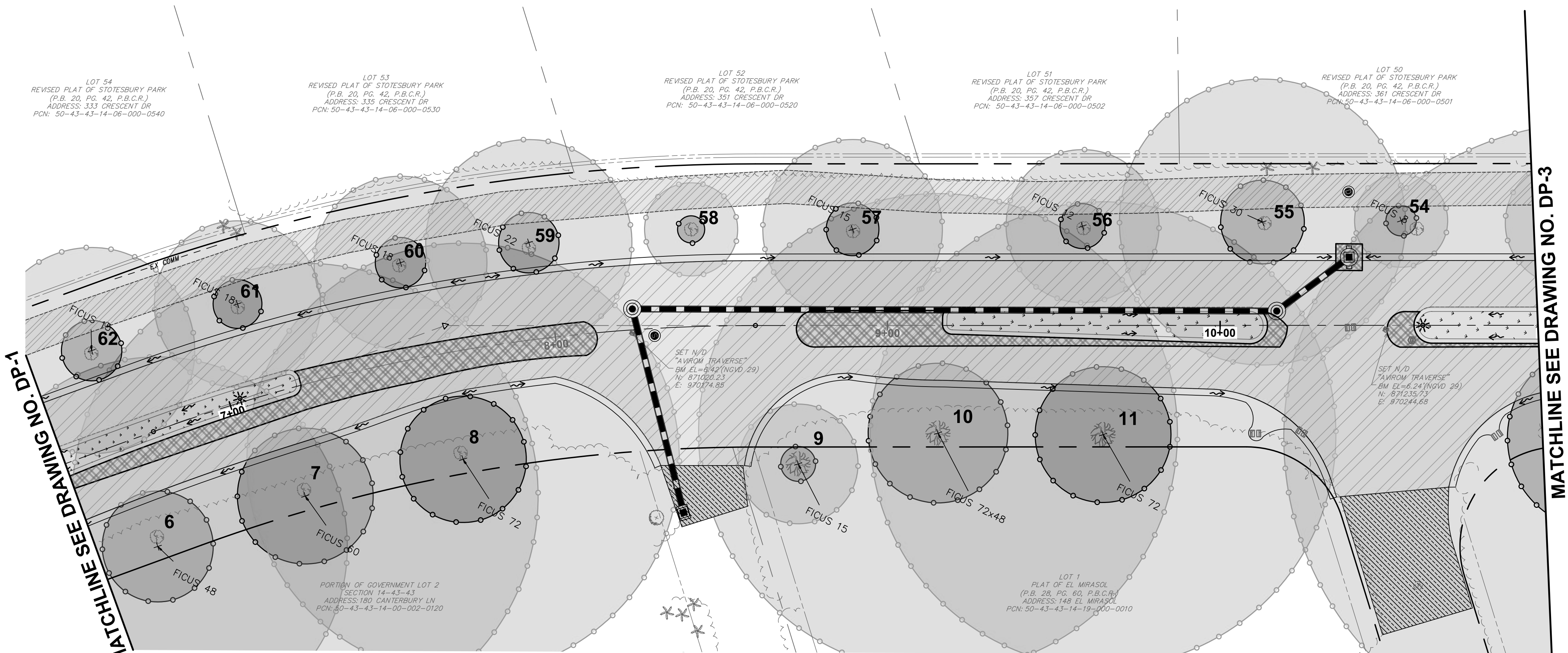
DRAWING TITLE

CRITICAL ROOT ZONES FOR TREE PROTECTION

DRAWING NUMBER

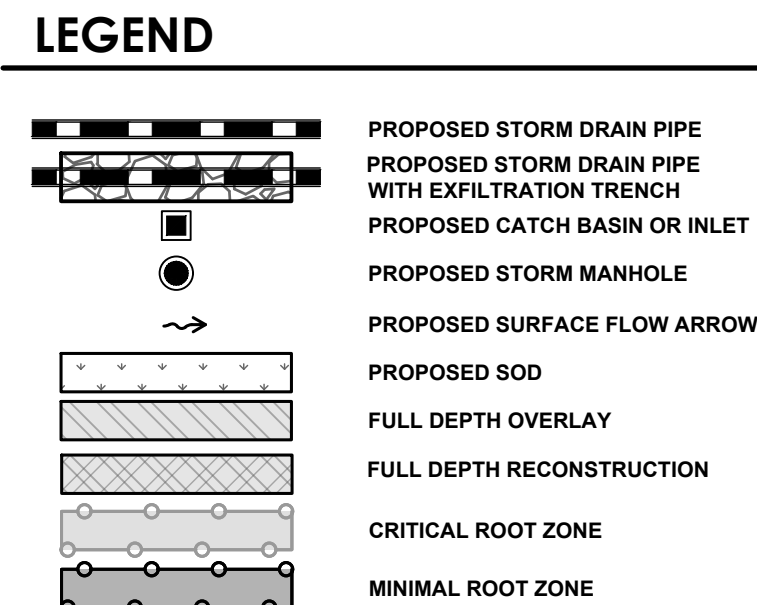
RZ-1

18 OF 24

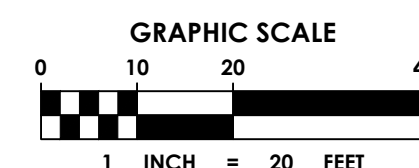
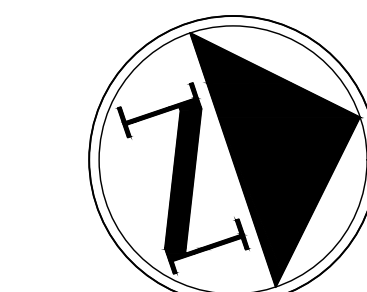


MATCHLINE SEE DRAWING NO. DP-1

MATCHLINE SEE DRAWING NO. DP-3



- ## TREE PROTECTION NOTES:
1. CONTACT MARSHALL AT KING TREE SERVICE AT 561-657-1652 PRIOR TO STARTING ANY CONSTRUCTION ON THIS PROJECT. THE EXISTING TREE BARRICADES MUST BE IN PLACE AND MARSHALL SHALL COORDINATE ROOT PRUNING ALONG THE EDGE OF PAVEMENT WHERE THE VALLEY CUTTER AND OTHER EXCAVATION HAS BEEN PROPOSED. THE ROOT PRUNING IS EXTREMELY IMPORTANT TO THE SURVIVAL OF THE EXISTING TREES WITHIN THIS LIMIT OF WORK.
 2. ROOTS MAY NOT BE TORN OFF WITH POWER EQUIPMENT, AND CUT ROOTS SHALL NOT BE LEFT WITH RIPPED, RAGGED OR SHREDDED ENDS. ROOTS MUST BE CLEANLY SEVERED WITH SHARP HAND TOOLS OR POWER ROOT SAWS.
 3. PRUNING TRENCHES SHALL BE BACKFILLED WITH NATIVE SOILS, FREE OF DEBRIS.
 4. WHEN A ROOT WITH A DIAMETER OF TWO INCHES OR GREATER IS ENCOUNTERED, A FINAL CLEAN CUT SHALL BE MADE WITH A SAW. THE CUT SHALL BE MADE FLUSH WITH THE SIDE OF THE TRENCH CLOSEST TO THE TREE.
 5. WHEN ADJACENT TO NEW CURBING, UNCURBED PAVED AREAS, OR AREAS WITH GRADE CHANGES, ROOTS SHALL BE CUT NO MORE THAN 18 INCHES TOWARDS THE TREE FROM THE BACK OF THE CURB, THE EDGE OF THE PAVEMENT, OR THE POINT OF INTERSECTION OF OLD AND NEW GRADES, RESPECTIVELY. AFTER ROOT PRUNING, NO EXCAVATION FOR THE INSTALLATION OF FORMS OR FOR ANY OTHER REASON MAY BE CONDUCTED ANY DEEPER THAN SIX INCHES OUTSIDE OF THE ROOT PRUNING CUT. THE ROOT PRUNING TRENCH SHALL BE BACKFILLED WITH NATIVE SOIL.
 6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY TREES IN NEED OF SUPPLEMENTAL SUPPORT FOLLOWING ROOT PRUNING. PRIOR TO COMMENCEMENT OF ROOT PRUNING, THE CONTRACTOR SHALL FURNISH A SUPPLEMENTAL SUPPORT PLAN WHICH IDENTIFIES EACH TREE IN NEED OF TEMPORARY SUPPLEMENTAL SUPPORT AND PROPOSES A STAKING/SUPPORT SYSTEM. THE CONTRACTOR SHALL INSTALL THE ABOVE-SPECIFIED SUPPORT SYSTEMS IMMEDIATELY FOLLOWING ROOT PRUNING.



Sunshine811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
Check positive response codes before you dig!

NOT FOR CONSTRUCTION



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

NORTH COUNTY ROAD DRAINAGE IMPROVEMENTS

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES

IF NOT ONE INCH ON THIS SHEET,

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

DRAWN BY JH

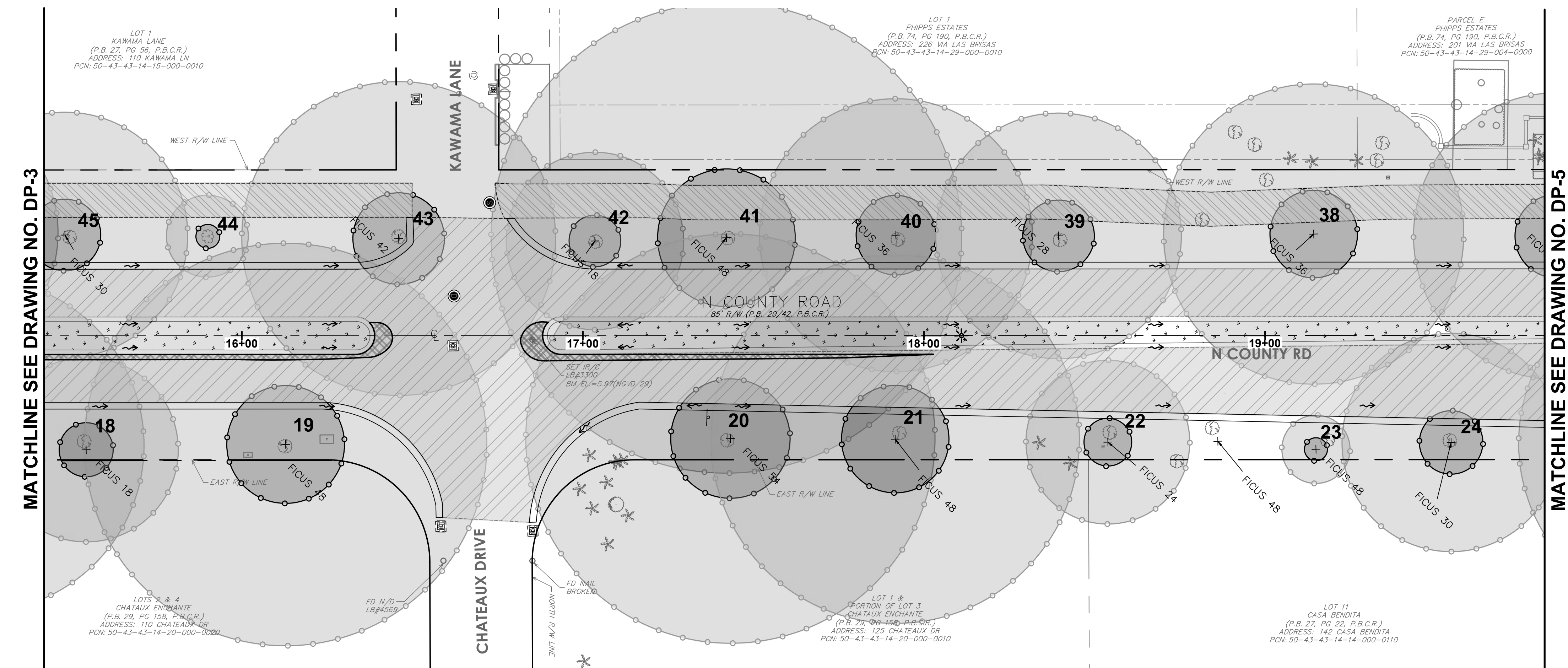
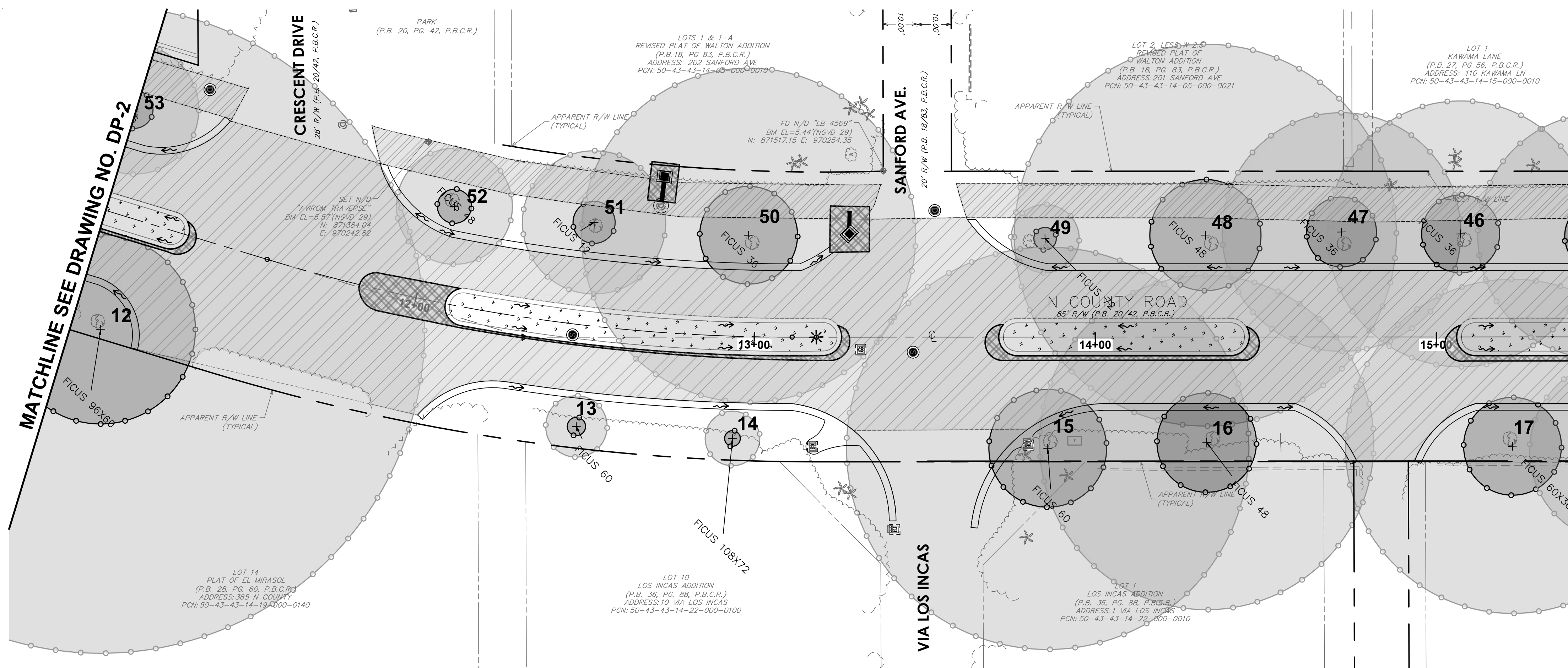
CHECKED BY
BW

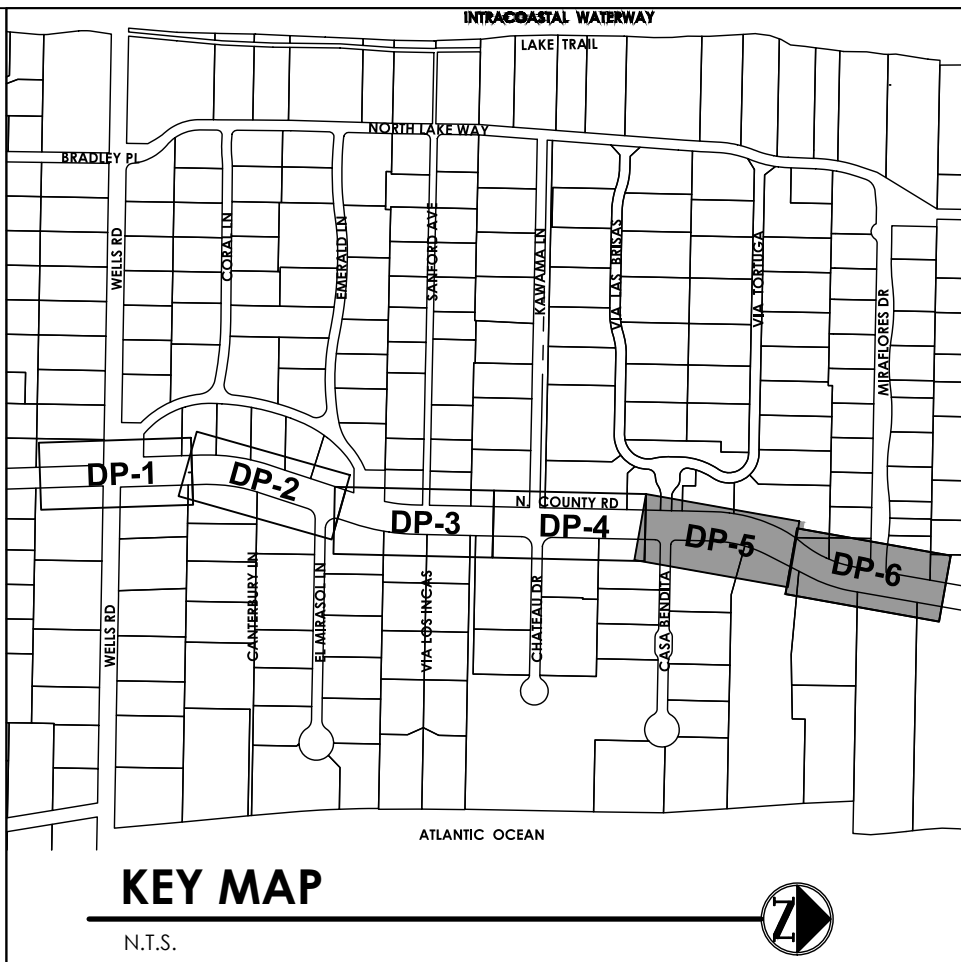
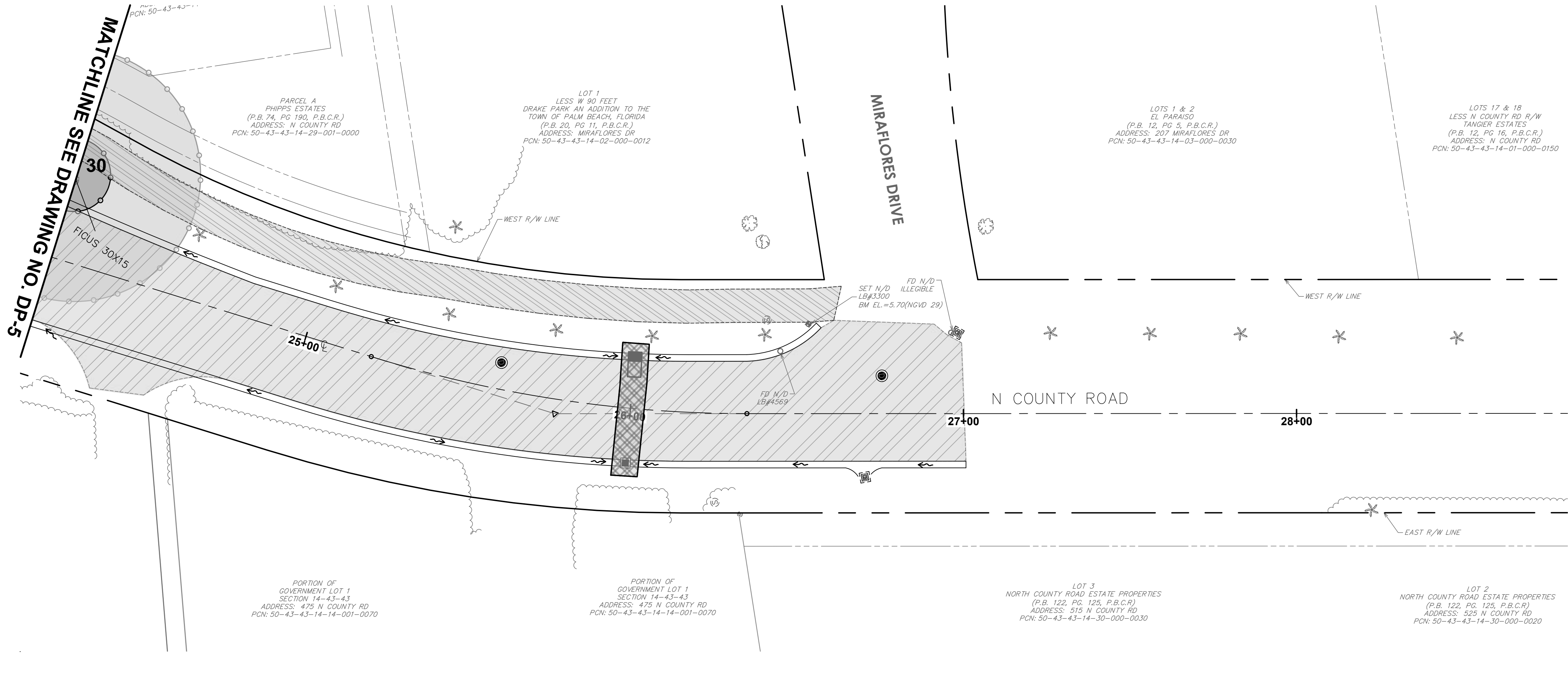
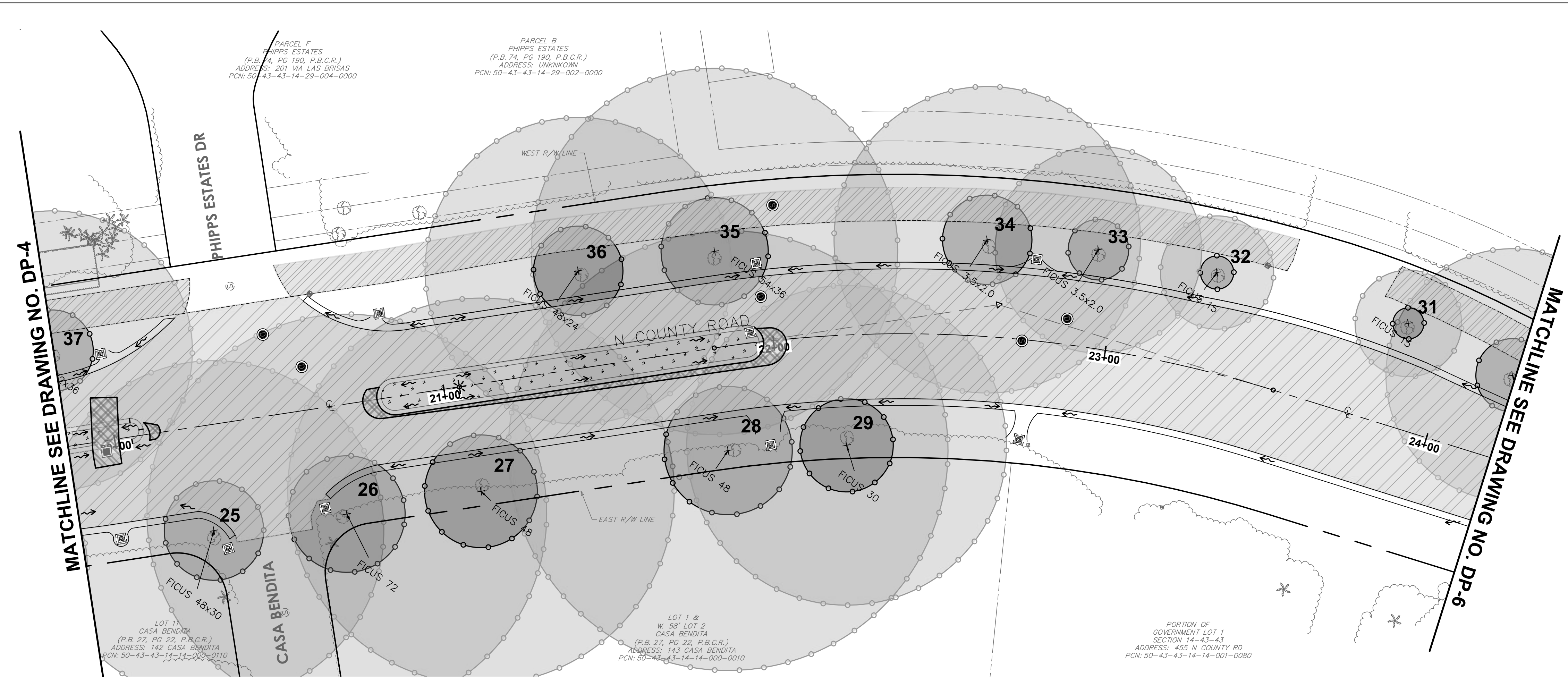
DRAWING TITLE

CRITICAL ROOT ZONES FOR TREE PROTECTION

DRAWING NUMBER

RZ-2
19 OF 24



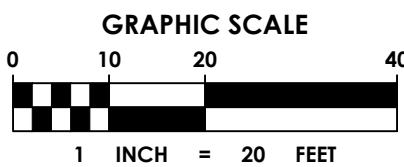
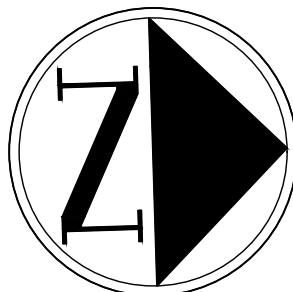


LEGEND

- PROPOSED STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH
- PROPOSED CATCH BASIN OR INLET
- PROPOSED STORM MANHOLE
- PROPOSED SURFACE FLOW ARROW
- PROPOSED SOD
- FULL DEPTH OVERLAY
- FULL DEPTH RECONSTRUCTION
- CRITICAL ROOT ZONE
- MINIMAL ROOT ZONE

TREE PROTECTION NOTES:

- CONTACT MARSHALL AT KING TREE SERVICE AT 561-657-1652 PRIOR TO STARTING ANY CONSTRUCTION ON THIS PROJECT. THE EXISTING TREE BARRICADES MUST BE IN PLACE AND MARSHALL SHALL COORDINATE ROOT PRUNING ALONG THE EDGE OF PAVEMENT WHERE THE VALLEY GUTTER AND OTHER EXCAVATION HAS BEEN PROPOSED. THE ROOT PRUNING IS EXTREMELY IMPORTANT TO THE SURVIVAL OF THE EXISTING TREES WITHIN THIS LIMIT OF WORK.
- ROOTS MAY NOT BE TORN OFF WITH POWER EQUIPMENT, AND CUT ROOTS SHALL NOT BE LEFT WITH RIPPED, RAGGED OR SHREDDED ENDS. ROOTS MUST BE CLEANLY SEVERED WITH SHARP HAND TOOLS OR POWER ROOT SAWS.
- PRUNING TRENCHES SHALL BE BACKFILLED WITH NATIVE SOILS, FREE OF DEBRIS.
- WHEN A ROOT WITH A DIAMETER OF TWO INCHES OR GREATER IS ENCOUNTERED, A FINAL CLEAN CUT SHALL BE MADE WITH A SAW. THE CUT SHALL BE MADE FLUSH WITH THE SIDE OF THE TRENCH CLOSEST TO THE TREE.
- WHEN ADJACENT TO NEW CURBING, UNCURRED PAVED AREAS, OR AREAS OF GRADE CHANGES, ROOTS SHALL BE CUT NO MORE THAN 18 INCHES TOWARDS THE TREE FROM THE BACK OF THE CURB, THE EDGE OF THE PAVEMENT, OR THE POINT OF INTERSECTION OF OLD AND NEW GRADES, RESPECTIVELY. AFTER ROOT PRUNING, NO EXCAVATION FOR THE INSTALLATION OF FORMS OR FOR ANY OTHER REASON MAY BE PERFORMED ANY CLOSER THAN SIX INCHES OUTSIDE OF THE ROOT PRUNING CUT. THE ROOT PRUNING TRENCH SHALL BE BACKFILLED WITH NATIVE SOIL.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY TREES IN NEED OF SUPPLEMENTAL SUPPORT FOLLOWING ROOT PRUNING. PRIOR TO COMMENCEMENT OF ROOT PRUNING, THE CONTRACTOR SHALL FURNISH A SUPPLEMENTAL SUPPORT PLAN WHICH IDENTIFIES EACH TREE IN NEED OF TEMPORARY SUPPLEMENTAL SUPPORT AND PROPOSE A STAKING/GUYING SYSTEM. THE CONTRACTOR SHALL INSTALL THE APPROVED SUPPORT SYSTEMS IMMEDIATELY FOLLOWING ROOT PRUNING.



Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

NOT FOR CONSTRUCTION

REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

NORTH COUNTY ROAD DRAINAGE IMPROVEMENTS

TOWN OF PALM BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

DRAWN BY
JH

CHECKED BY
BW

DRAWING TITLE

CRITICAL ROOT ZONES FOR TREE PROTECTION

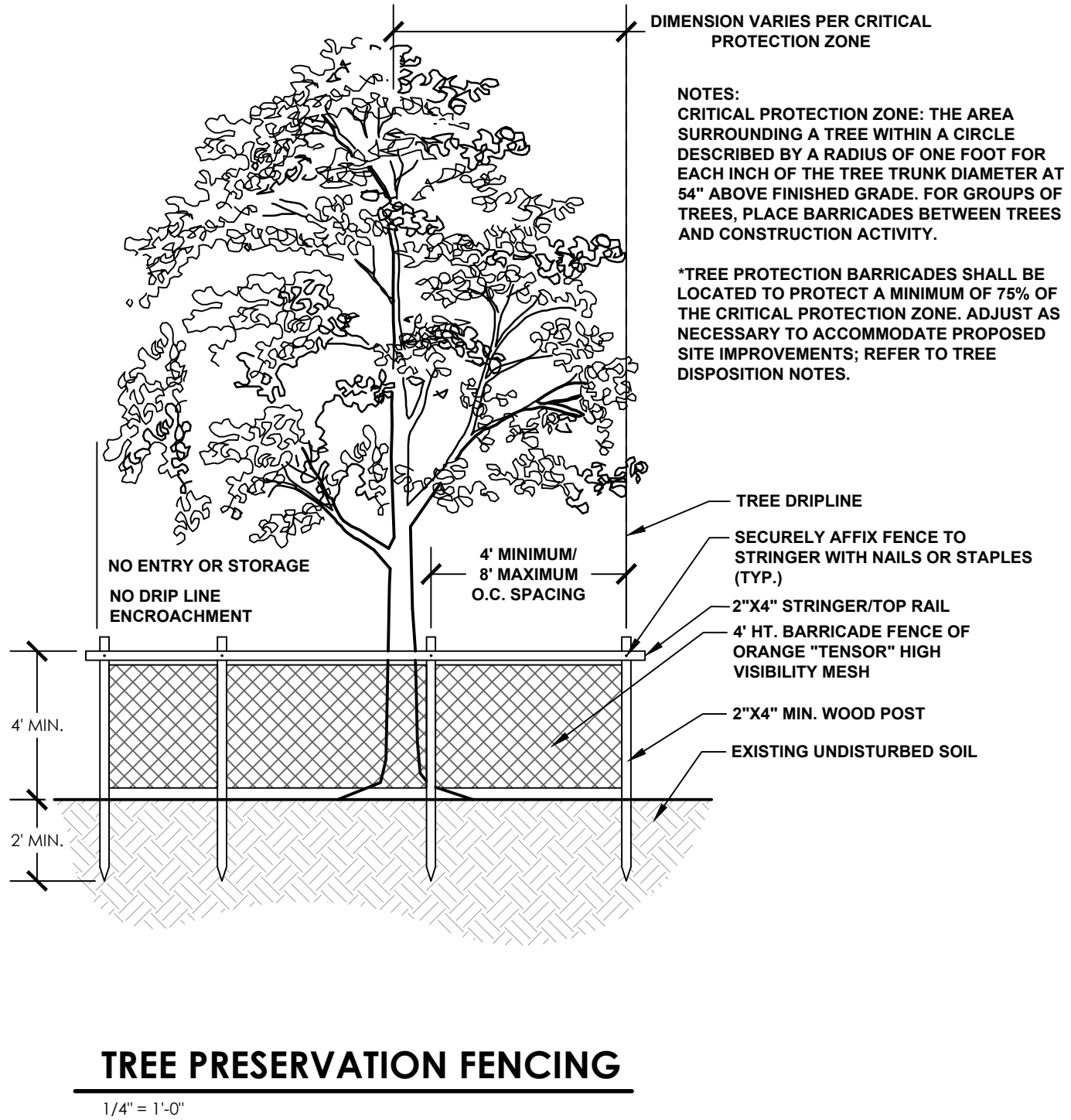
DRAWING NUMBER

RZ-3
20 OF 24

Plot Date: 12/22/2022 3:09:59 PM Username: abologna Layout Name: RZ-4
Folder Path: V:\Projects\2021\21-0431.00039 - north county road drainage improvements\Design\CAD\Sheets Filename: 21-0431.00039 Critical Root Zones.dwg

TREE #	SPECIES		DBH (in.)
	Common Name	Scientific Name	
1	Indian Laurel Fig	<i>Ficus micro carpa</i>	72
2	Indian Laurel Fig	<i>Ficus micro carpa</i>	29
3	Indian Laurel Fig	<i>Ficus micro carpa</i>	26
4	Indian Laurel Fig	<i>Ficus micro carpa</i>	25
5	Indian Laurel Fig	<i>Ficus micro carpa</i>	18
6	Indian Laurel Fig	<i>Ficus micro carpa</i>	57
7	Indian Laurel Fig	<i>Ficus micro carpa</i>	70
8	Indian Laurel Fig	<i>Ficus micro carpa</i>	65
9	Weeping Fig	<i>Ficus benjamina</i>	18
10	Indian Laurel Fig	<i>Ficus micro carpa</i>	72
11	Indian Laurel Fig	<i>Ficus micro carpa</i>	70
12	Indian Laurel Fig	<i>Ficus micro carpa</i>	95
13	Banyan	<i>Ficus benghalensis</i>	9
14	Banyan	<i>Ficus benghalensis</i>	8
15	Indian Laurel Fig	<i>Ficus micro carpa</i>	59
16	Indian Laurel Fig	<i>Ficus micro carpa</i>	50
17	Indian Laurel Fig	<i>Ficus micro carpa</i>	49
18	Indian Laurel Fig	<i>Ficus micro carpa</i>	27
19	Indian Laurel Fig	<i>Ficus micro carpa</i>	59
20	Indian Laurel Fig	<i>Ficus micro carpa</i>	60
21	Indian Laurel Fig	<i>Ficus micro carpa</i>	54
22	Indian Laurel Fig	<i>Ficus micro carpa</i>	24
23	Banyan	<i>Ficus benghalensis</i>	21 (largest trunk
24	Indian Laurel Fig	<i>Ficus micro carpa</i>	32
25	Indian Laurel Fig	<i>Ficus micro carpa</i>	51
26	Indian Laurel Fig	<i>Ficus micro carpa</i>	60
27	Indian Laurel Fig	<i>Ficus micro carpa</i>	58
28	Indian Laurel Fig	<i>Ficus micro carpa</i>	66
29	Indian Laurel Fig	<i>Ficus micro carpa</i>	48
30	Indian Laurel Fig	<i>Ficus micro carpa</i>	38
31	Indian Laurel Fig	<i>Ficus micro carpa</i>	16
32	Indian Laurel Fig	<i>Ficus micro carpa</i>	17

TREE #	SPECIES		DBH (in.)
	Common Name	Scientific Name	
33	Indian Laurel Fig	<i>Ficus micro carpa</i>	31
34	Indian Laurel Fig	<i>Ficus micro carpa</i>	46
35	Indian Laurel Fig	<i>Ficus micro carpa</i>	55
36	Indian Laurel Fig	<i>Ficus micro carpa</i>	46
37	Indian Laurel Fig	<i>Ficus micro carpa</i>	42
38	Indian Laurel Fig	<i>Ficus micro carpa</i>	44
39	Indian Laurel Fig	<i>Ficus micro carpa</i>	36
40	Indian Laurel Fig	<i>Ficus micro carpa</i>	40
41	Indian Laurel Fig	<i>Ficus micro carpa</i>	69
42	Indian Laurel Fig	<i>Ficus micro carpa</i>	26
43	Indian Laurel Fig	<i>Ficus micro carpa</i>	46
44	Banyan	<i>Ficus benghalensis</i>	12
45	Indian Laurel Fig	<i>Ficus micro carpa</i>	36
46	Indian Laurel Fig	<i>Ficus micro carpa</i>	39
47	Indian Laurel Fig	<i>Ficus micro carpa</i>	35
48	Indian Laurel Fig	<i>Ficus micro carpa</i>	56
49	Banyan	<i>Ficus benghalensis</i>	19 (largest trunk
50	Indian Laurel Fig	<i>Ficus micro carpa</i>	49
51	Indian Laurel Fig	<i>Ficus micro carpa</i>	21
52	Banyan	<i>Ficus benghalensis</i>	17
53	Indian Laurel Fig	<i>Ficus micro carpa</i>	19
54	Banyan	<i>Ficus benghalensis</i>	26 (largest trunk
55	Indian Laurel Fig	<i>Ficus micro carpa</i>	43
56	Indian Laurel Fig	<i>Ficus micro carpa</i>	23
57	Indian Laurel Fig	<i>Ficus micro carpa</i>	27
58	Banyan	<i>Ficus benghalensis</i>	27 (largest trunk
59	Indian Laurel Fig	<i>Ficus micro carpa</i>	31
60	Indian Laurel Fig	<i>Ficus micro carpa</i>	26
61	Indian Laurel Fig	<i>Ficus micro carpa</i>	25
62	Indian Laurel Fig	<i>Ficus micro carpa</i>	31
63	Indian Laurel Fig	<i>Ficus micro carpa</i>	21
64	Indian Laurel Fig	<i>Ficus micro carpa</i>	37



REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

NORTH COUNTY
ROAD DRAINAGE
IMPROVEMENTS

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

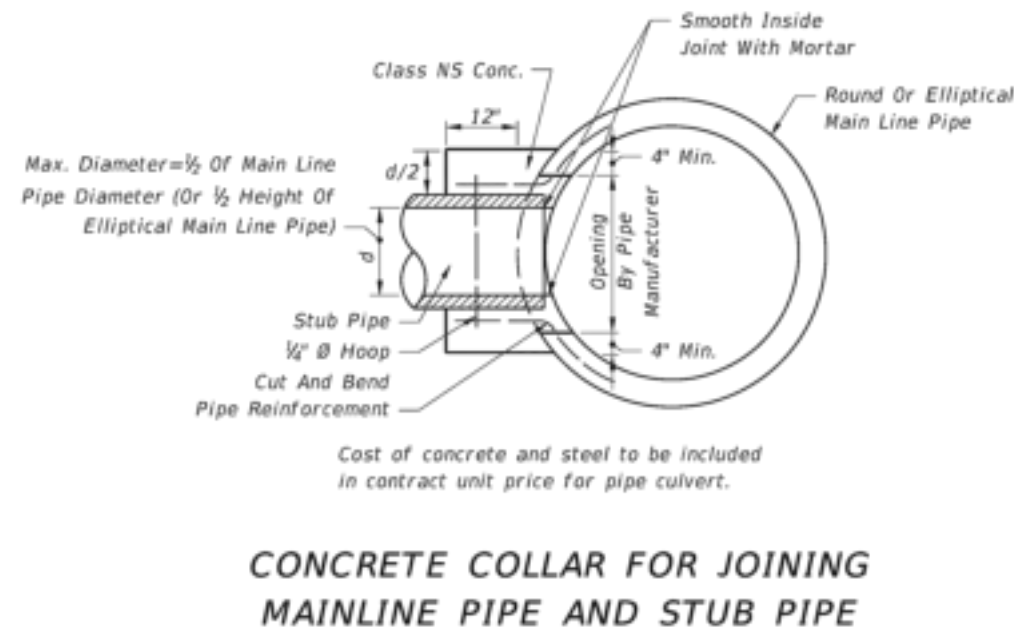
DRAWN BY
JH

CHECKED BY
BW

DRAWING TITLE
CRITICAL ROOT
ZONES FOR TREE
PROTECTION

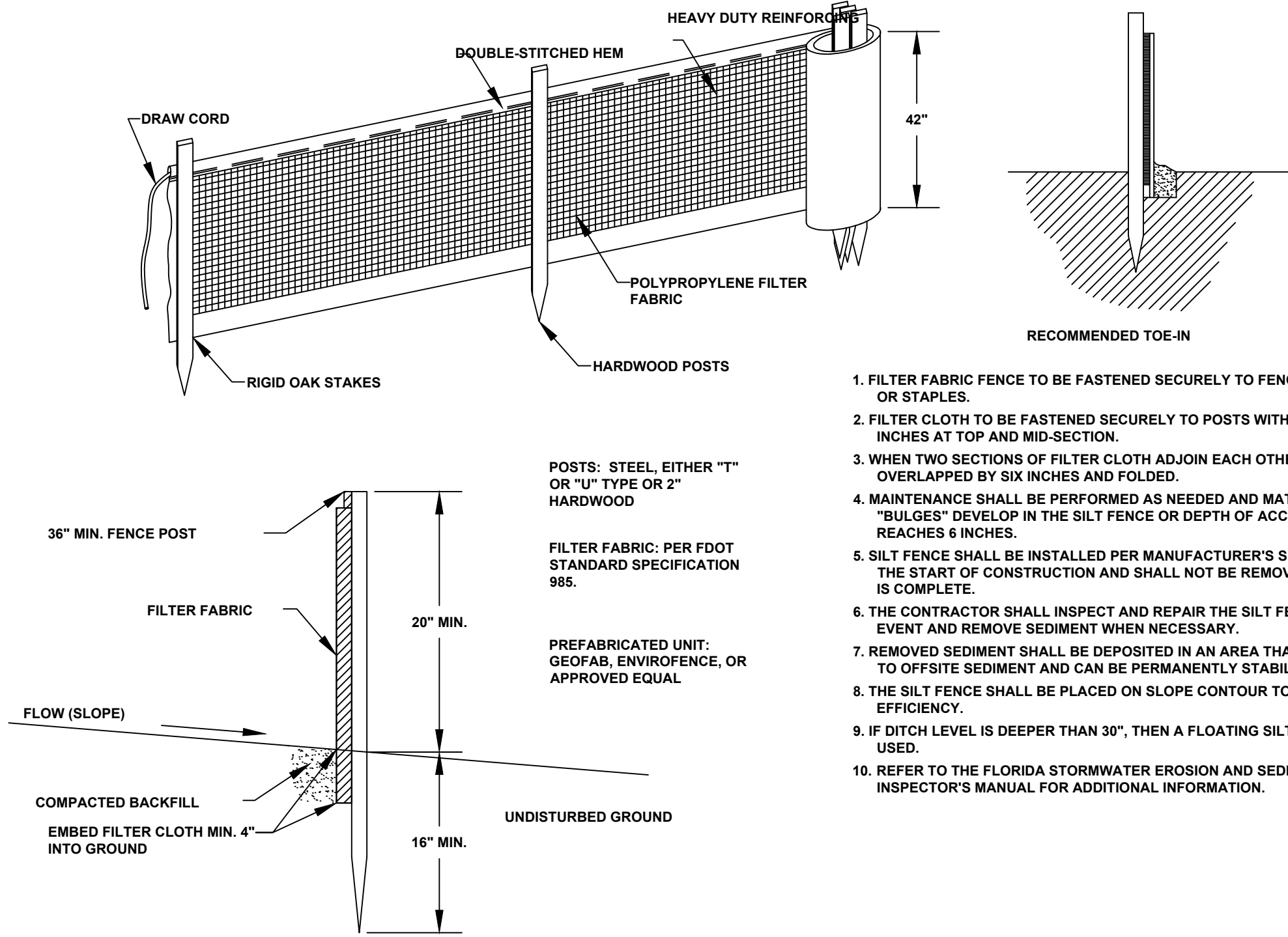
DRAWING NUMBER
RZ-4
21 OF 24

Plot Date: 12/22/2022 2:18:02 PM Username: abologna Layout Name: DET-1
Folder Path: V:\Projects\2021\21-0431.00039 - north county road drainage improvements\Design\CAD\Sheets Filename: 21-0431.00039 Details.dwg



1 CONCRETE COLLAR

N.T.S.

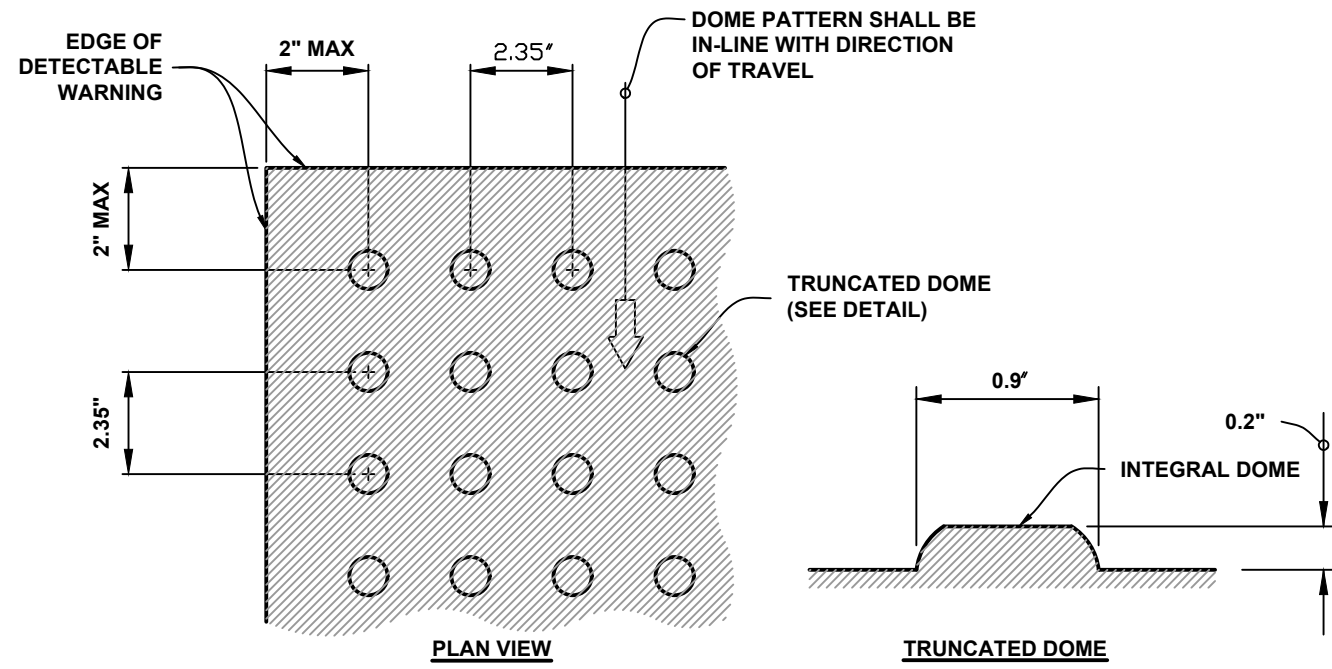


2 STORM WATER POLLUTION PREVENTION SILT FENCE

N.T.S.

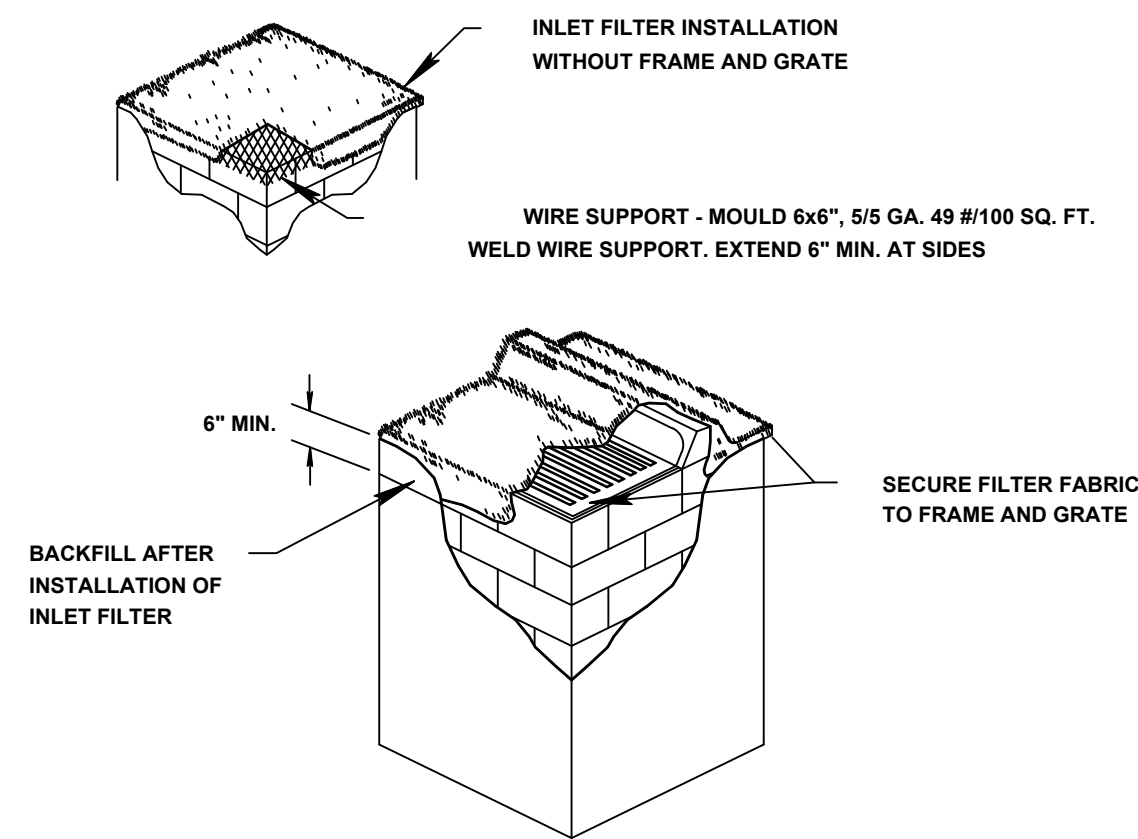
NOTES

1. DETECTABLE WARNING SURFACE AS REQUIRED PER AMERICAN WITH DISABILITIES ACT DESIGN STANDARDS REQUIRED AT ALL CONCRETE SIDEWALK LANDINGS WITHIN PROJECT LIMITS.
2. STAMPED CONCRETE IS NOT PERMITTED FOR DETECTABLE WARNING SURFACES. ARMOR TILE OR AN APPROVED EQUAL SHALL BE USED.
3. WHEN NOT PLACED ON CURB RAMPS, DETECTABLE WARNINGS SHALL BE PLACED ON THE WALKING SURFACES ADJOINING A VEHICULAR WAY. THE BOUNDARY BETWEEN THE AREAS SHALL BE DEFINED BY A CONTINUOUS DETECTABLE WARNING WHICH IS 36" WIDE.
4. UNLESS NOT PLACED DIRECTLY ON A RAMP, DETECTABLE WARNING SURFACE MUST NOT EXCEED 2% SLOPE IN ANY DIRECTION.
5. WHEN PLACED ON CURB RAMPS, DETECTABLE WARNING SURFACE SHALL EXTEND THE FULL LENGTH AND WIDTH OF THE RAMP. FOR RAMPS WITHIN FDOT RIGHT-OF-WAY, REFER TO THE LATEST VERSION OF THE FDOT DESIGN STANDARDS INDEX #304.
6. CONSTRUCTION OF DETECTABLE WARNING SURFACE IS NOT LIMITED TO CONCRETE MATERIAL. HOWEVER, PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST INFORM TO THE ENGINEER OF RECORD THE PROPOSED MATERIAL FOR THE DETECTABLE WARNING SURFACE. CONTRACTOR MUST ENSURE THAT THE FOLLOWING TRUNCATED DOME CRITERIA IS MET:
 - A. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES. THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70%.
 - B. 90% OF THE INDIVIDUAL TRUNCATED DOMES MUST COMPLY WITH THE SPECIFIED DIMENSIONS AND DESIGN CRITERIA.
 - C. NO TWO ADJACENT DOMES MAY BE NON-COMPLIANT.
 - D. SURFACE MAY NOT DEVIATE MORE THAN 0.1" FROM A TRUE PLAN.



3 DETECTABLE WARNING

N.T.S.

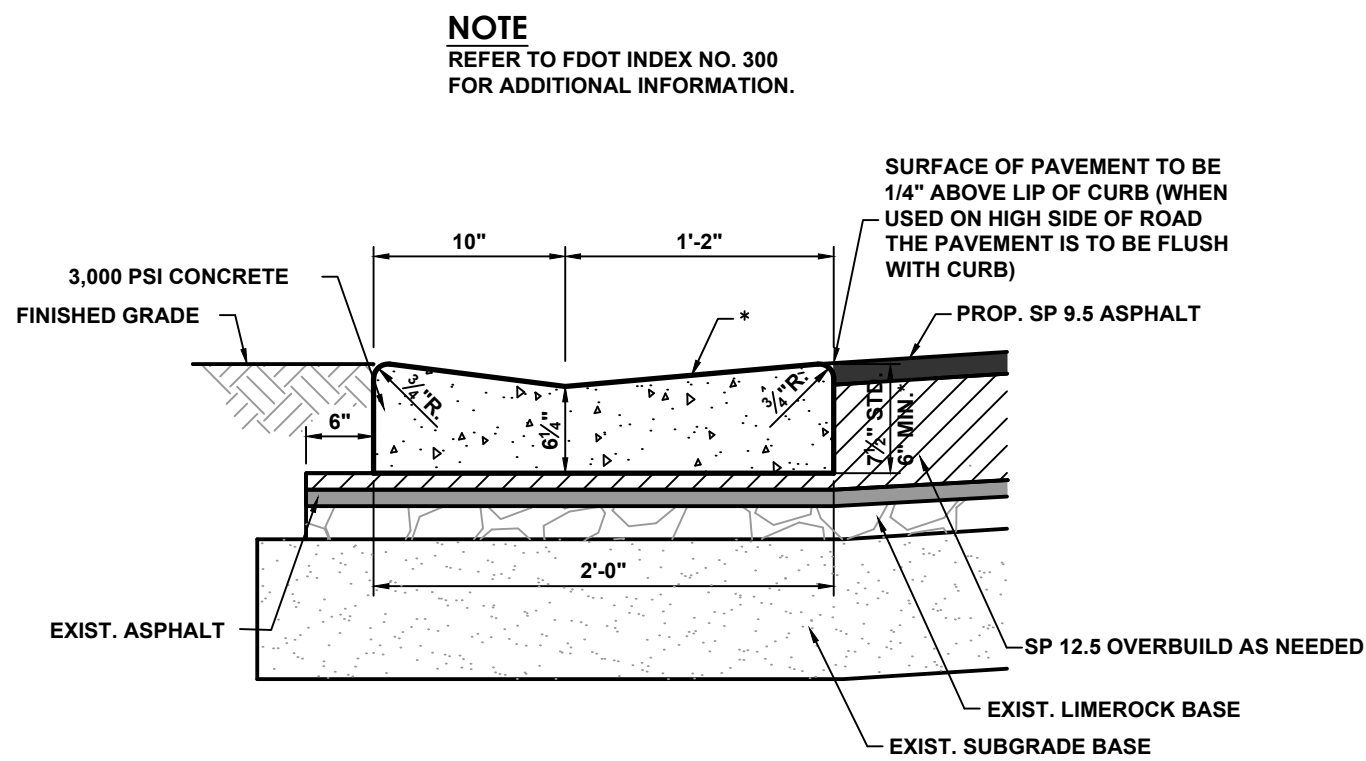


NOTES:

1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING
3. A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. BASIN THE SHALL BE AT LEAST 12 TO 14 INCHES IN DEPTH, APPROXIMATELY 36 INCHES IN WIDTH AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.
4. STORM WATER WILL REACH THE SEDIMENT TRAP VIA CURB CUTS ADJACENT TO SIDE OF THE INLET STRUCTURE. THESE OPENINGS SHALL BE AT LEAST 12 INCHES IN LENGTH. STORM WATER MAY ALSO REACH THE BASIN VIA OVERLAND FLOW LAND AREA BEHIND THE CURB. THE CURB CUTS SHALL BE REPAIRED WHEN THE SEDIMENT TRAP IS REMOVED.

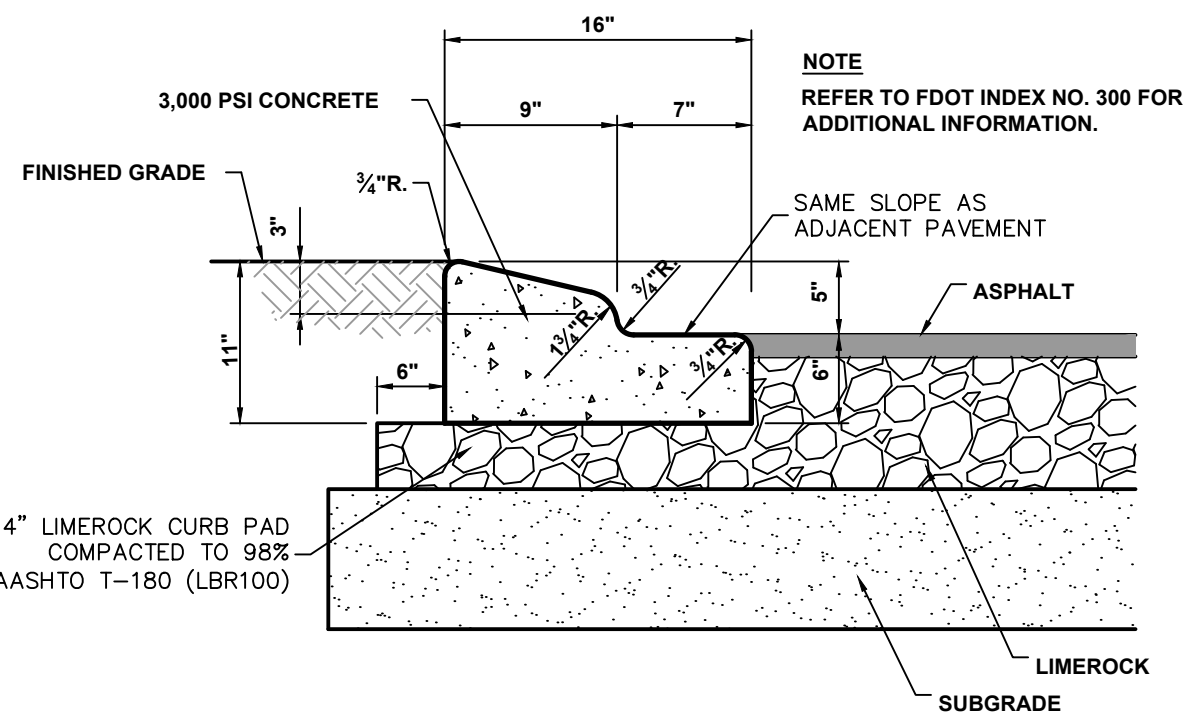
4 CURB INLET PROTECTION DETAIL

N.T.S.



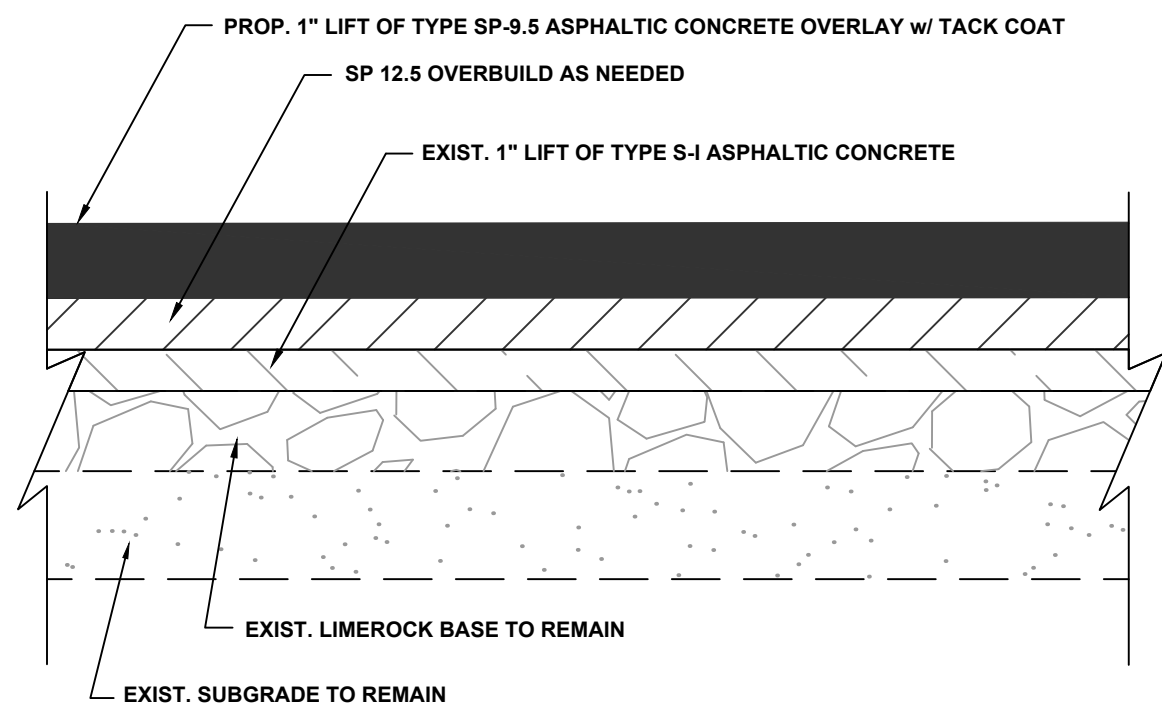
5 VALLEY GUTTER

N.T.S.



6 TYPE 'A' CURB & GUTTER

N.T.S.



NOTES:

1. ALL JOINTS ARE TO BE SAW CUT
2. MILL A MINIMUM OF 3/4" ASPHALT WHEN TYING INTO TO EXISTING ASPHALT PAVEMENT
3. ASPHALT FOR TIE IN SHOULD BE SP 9.5

7 OVERLAY PAVEMENT SECTION

N.T.S.

NOT FOR CONSTRUCTION

REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

NORTH COUNTY ROAD DRAINAGE IMPROVEMENTS

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1"

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE

12/22/2022

DESIGNED BY

DC

DRAWN BY

JH

CHECKED BY

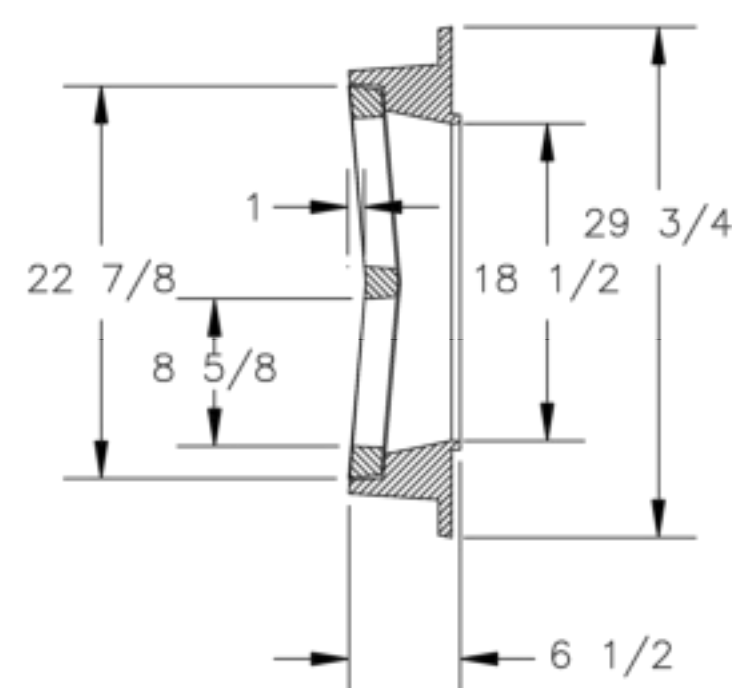
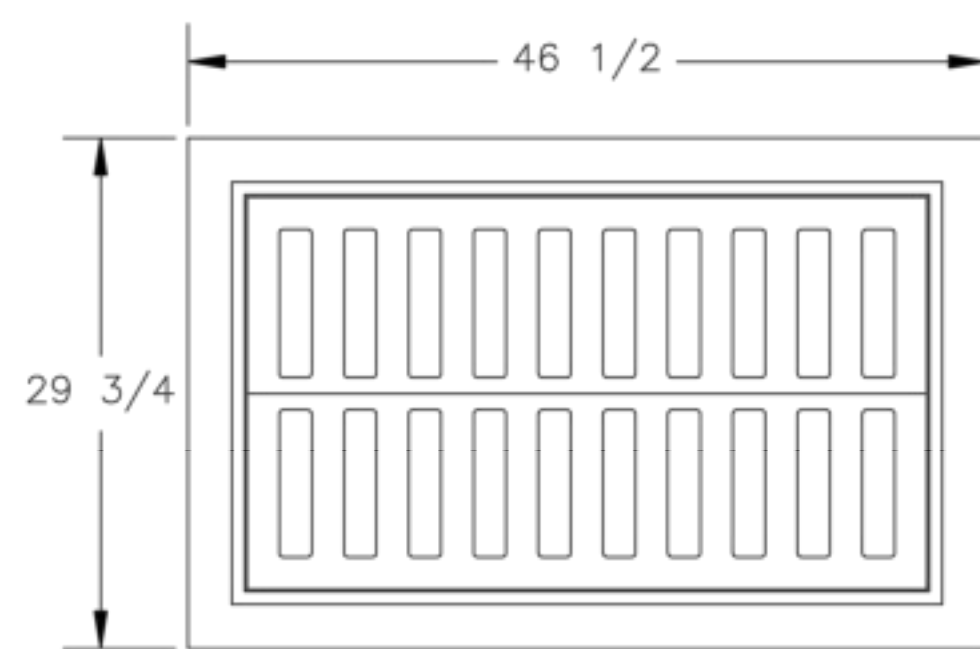
BW

DRAWING TITLE

CONSTRUCTION DETAILS

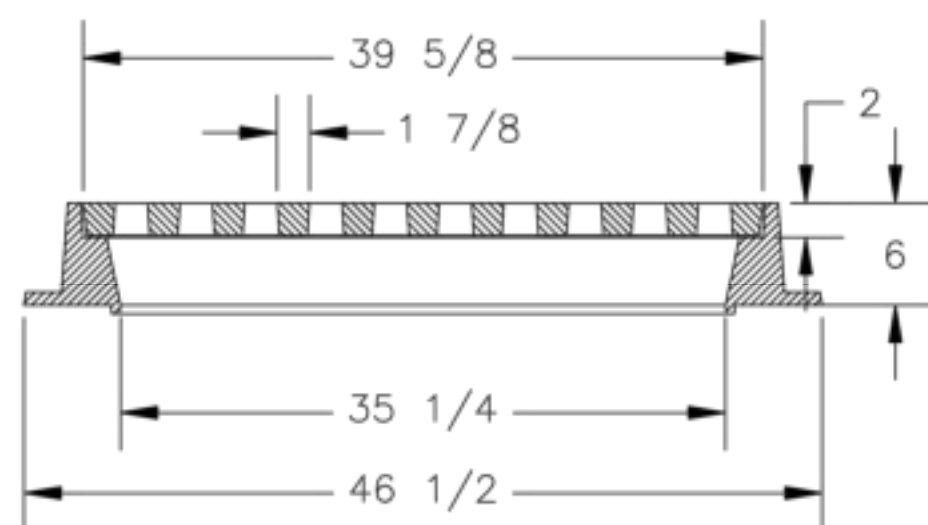
DRAWING NUMBER

DET-1
22 OF 24



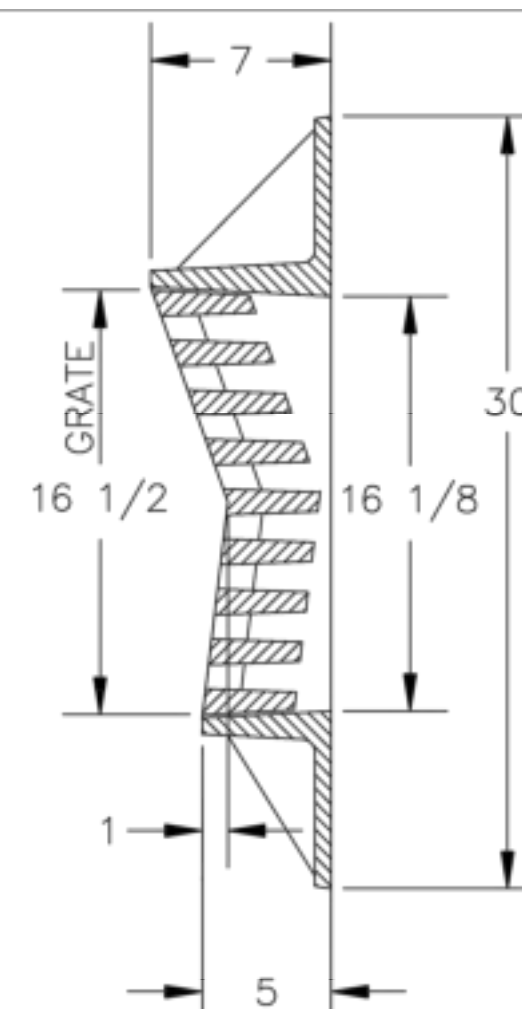
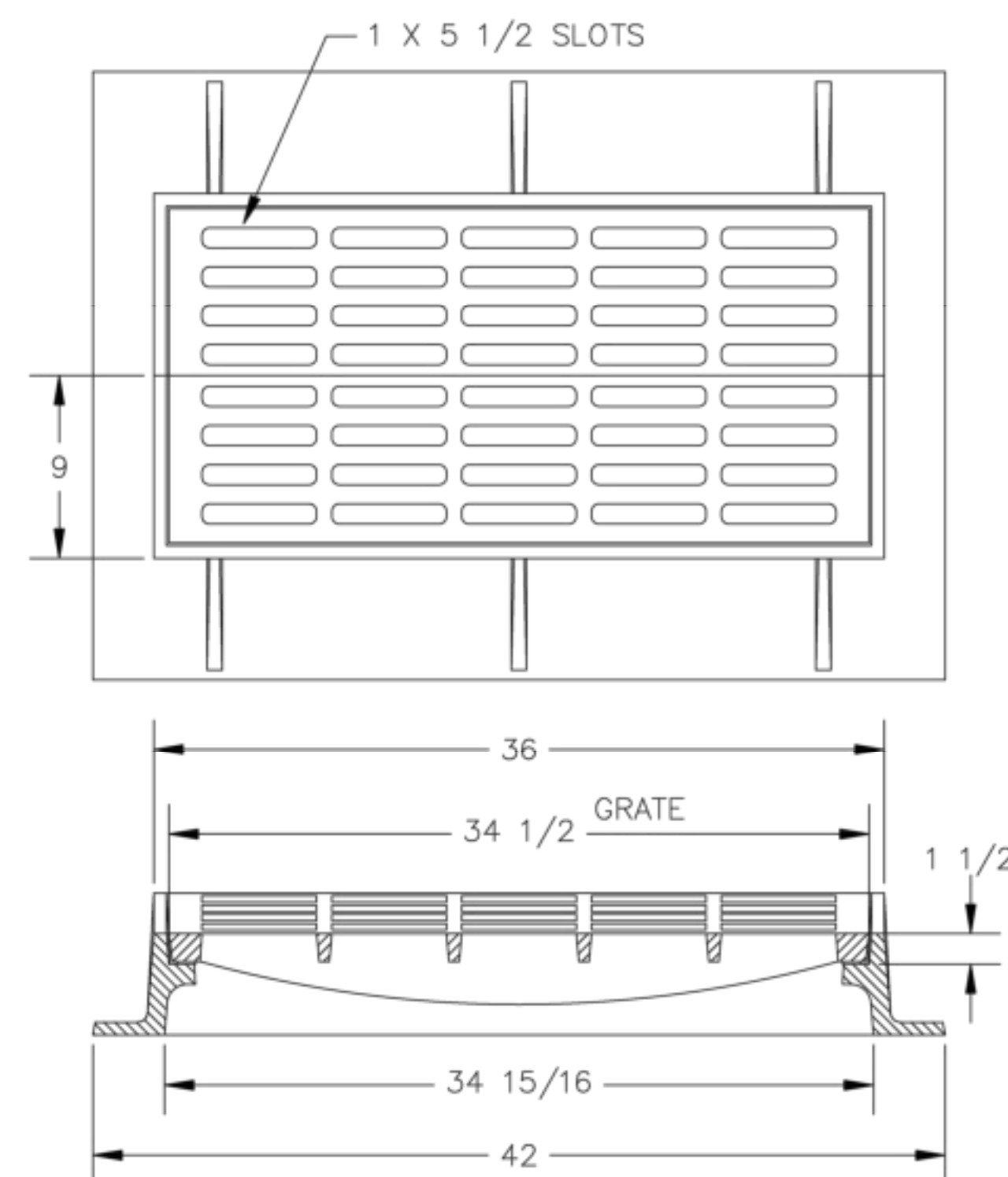
NOTES :

- 1- MATERIAL: ASTM-A48 CLASS 35B
GRAY IRON.
2- FRAME WT: 500 LBS. APP.
3- GRATE WT: 300 LBS. APP.
4- USF 5112 FRAM &
6143 GRATE



9 FRAME AND GRATE FOR VALLEY GUTTER INLET

N.T.S.

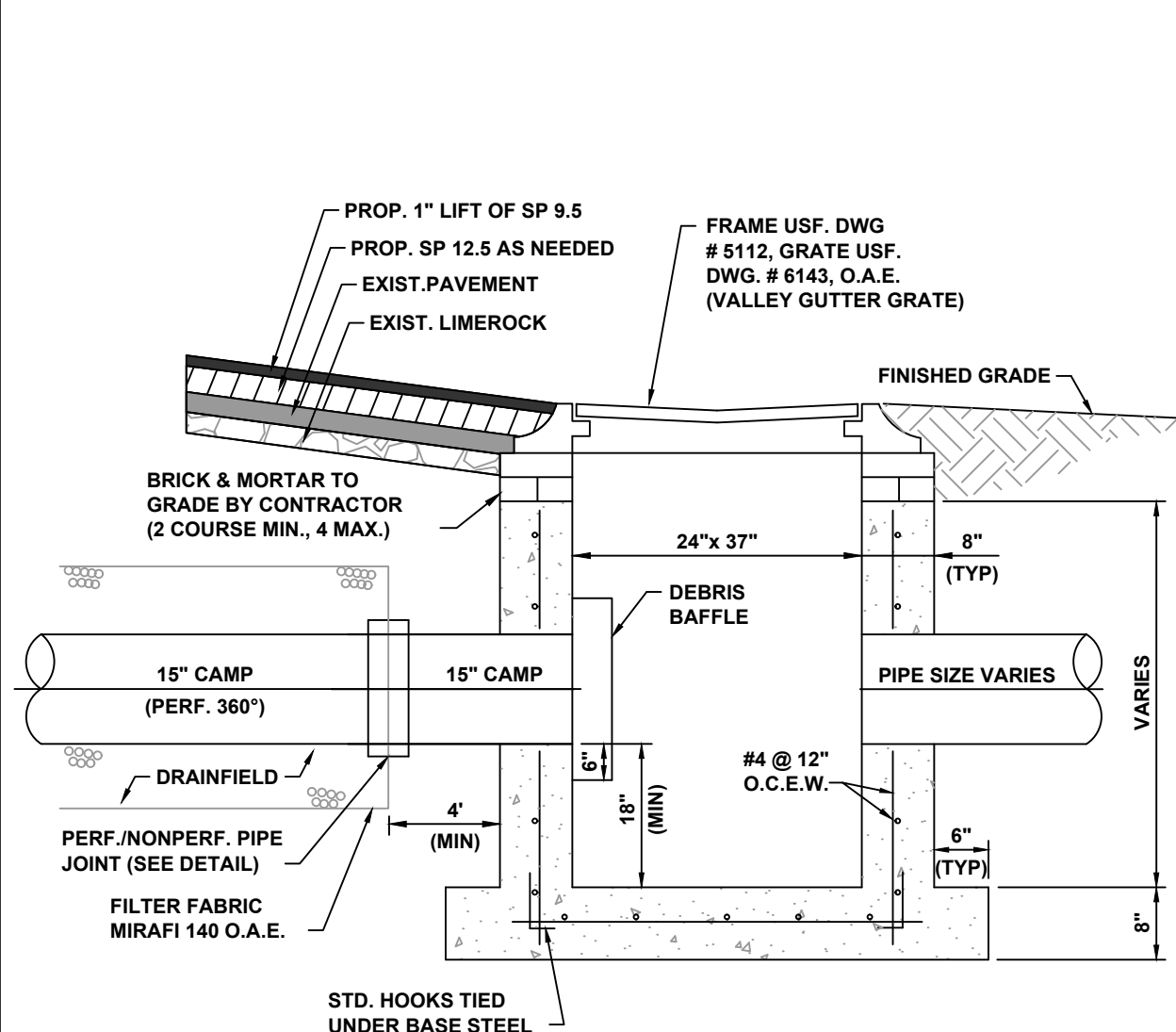


NOTES :

- 1-MATERIAL: ASTM-A48 CLASS 35B
GRAY IRON.
2-FRAME WEIGHT: 270 LBS. APP.
3-GRATE WEIGHT: 195 LBS. APP.
4-USF 5164 FRAME & 6144 GRATE

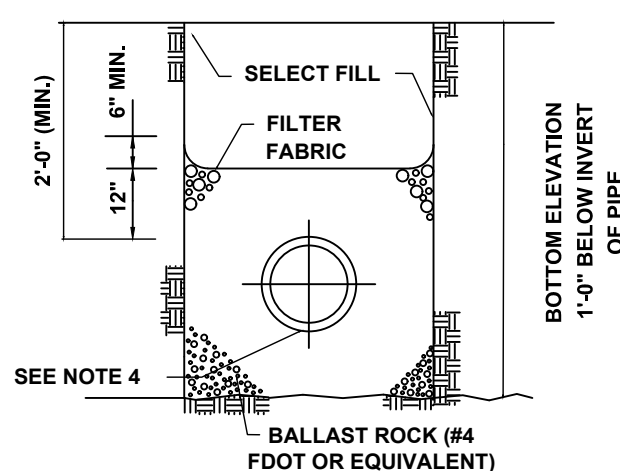
 FRAME AND GRATE FOR P-10 INLET

NTS



TYPE 'C' INLET

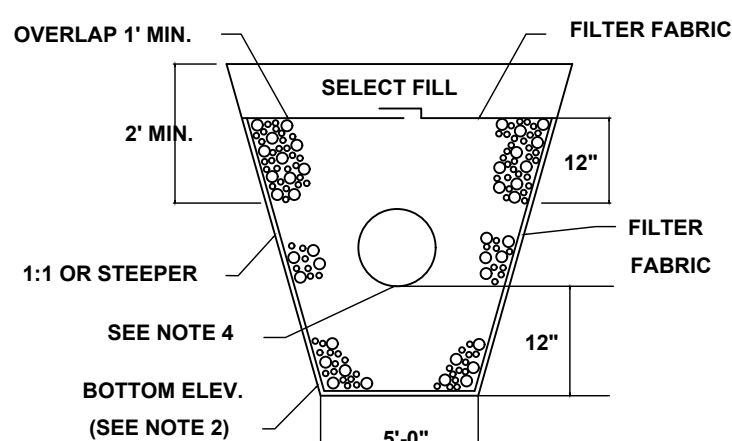
N.T.S



TRANSVERSE SECTION

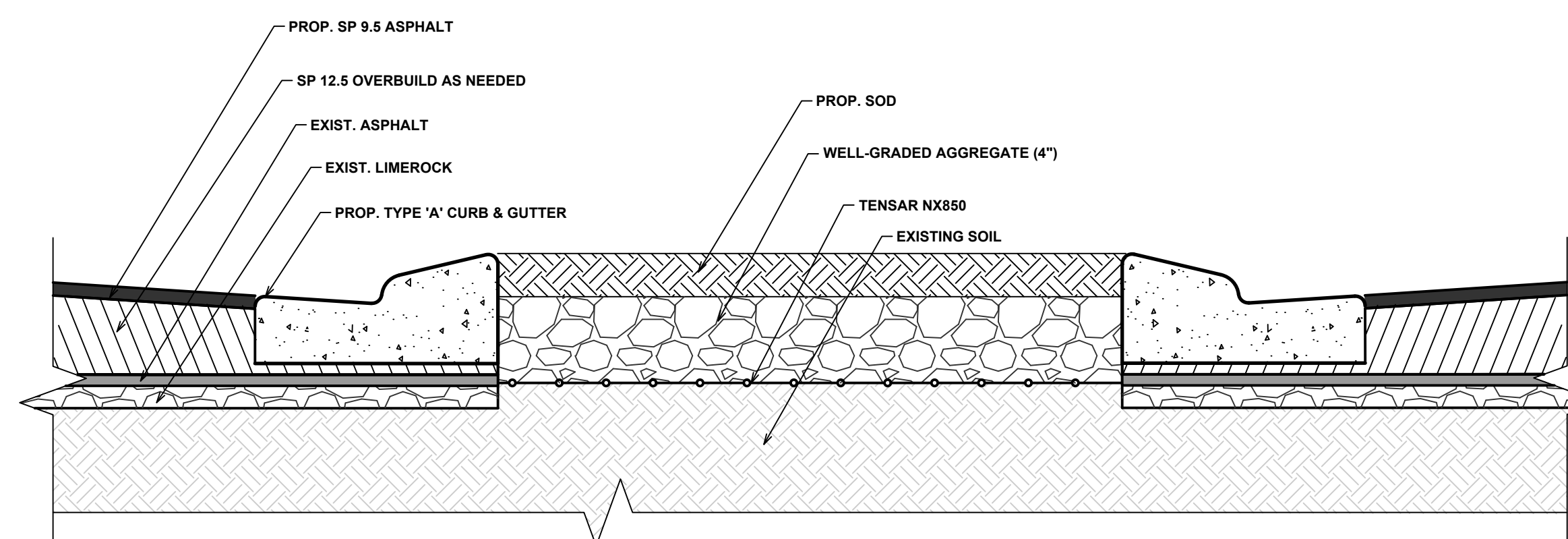
NOTES:

1. PROVIDE FILTER FABRIC AT EACH SIDE, TOP AND BOTTOM OF TRENCH.
2. THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE A MINIMUM OF 1' BELOW INVERT OF PIPE, UNLESS FIELD CONDITIONS WARRANT OTHERWISE, AND CHANGE IS APPROVED BY THE OWNER AND PROJECT ENGINEER.
3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER IN ORDER TO ALLOW SETTLEMENT THAT MAY OCCUR. IF SETTLEMENT TAKES PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION. THE EXFILTRATION TRENCH SHALL BE COMPLETED IN ACCORDANCE WITH THESE DETAILS.
4. INVERT ELEVATION AS SHOWN ON PLANS.
5. BACK-SLOPE PIPE 3% TO ALLOW GRASS CLIPPINGS AND VEGETATION TO FLOW TO THE MANHOLE FOR VACUUM TRUCK CLEANING.



ALT. TRANS. SECTION

MAY BE USED IN AREAS WHERE TRENCH WALLS WILL NOT STAND VERTICAL, OR WHERE CAVE IN BELOW THE WATER TABLE IS LIKELY TO OCCUR. TO BE USED AT THE ENGINEER'S DISCRETION.



GRASSED MEDIAN SECTION DETAIL

NTS

NOT FOR CONSTRUCTION

REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

NORTH COUNTY ROAD DRAINAGE IMPROVEMENTS

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1"

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DO

DRAWN BY JH

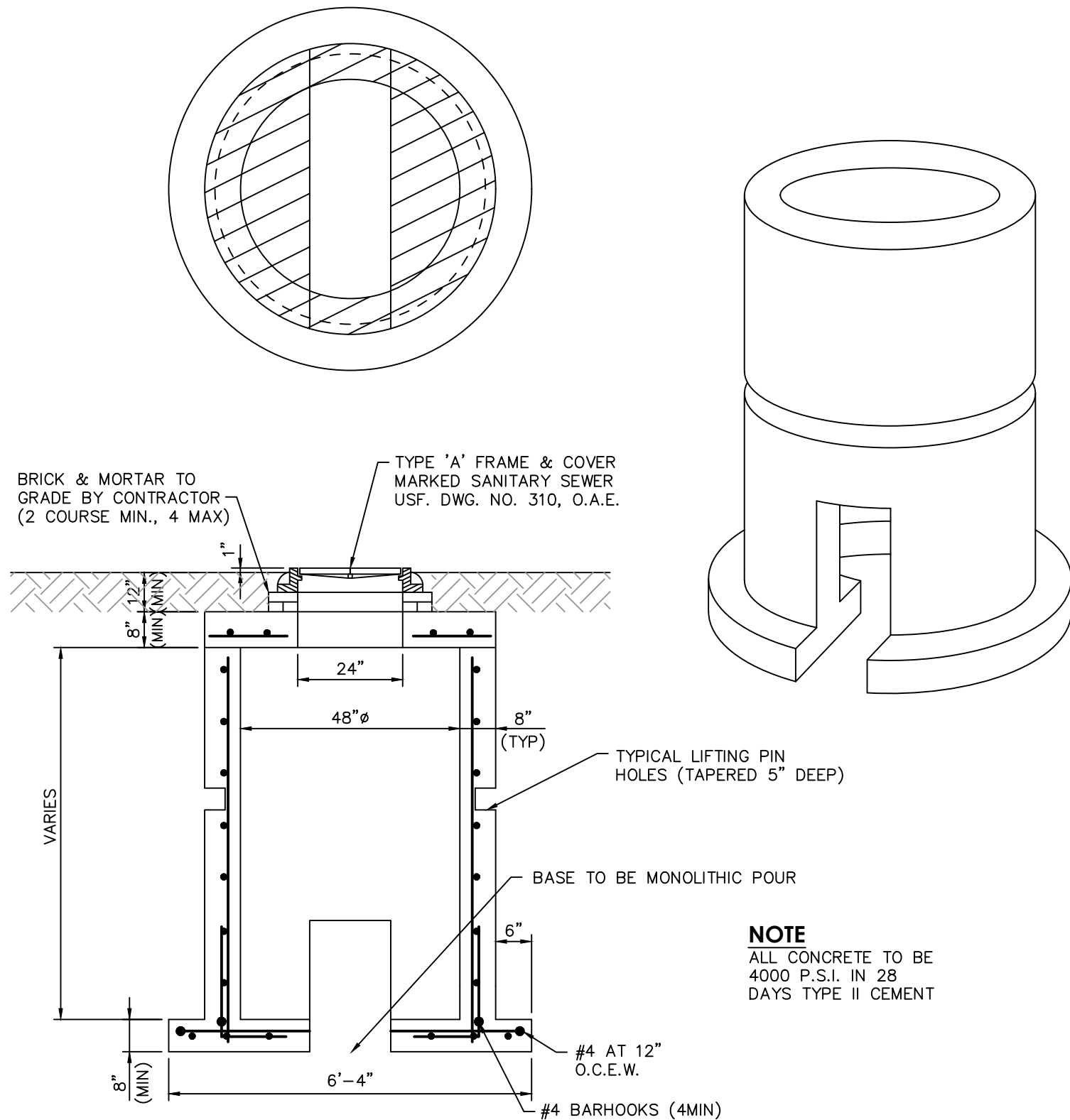
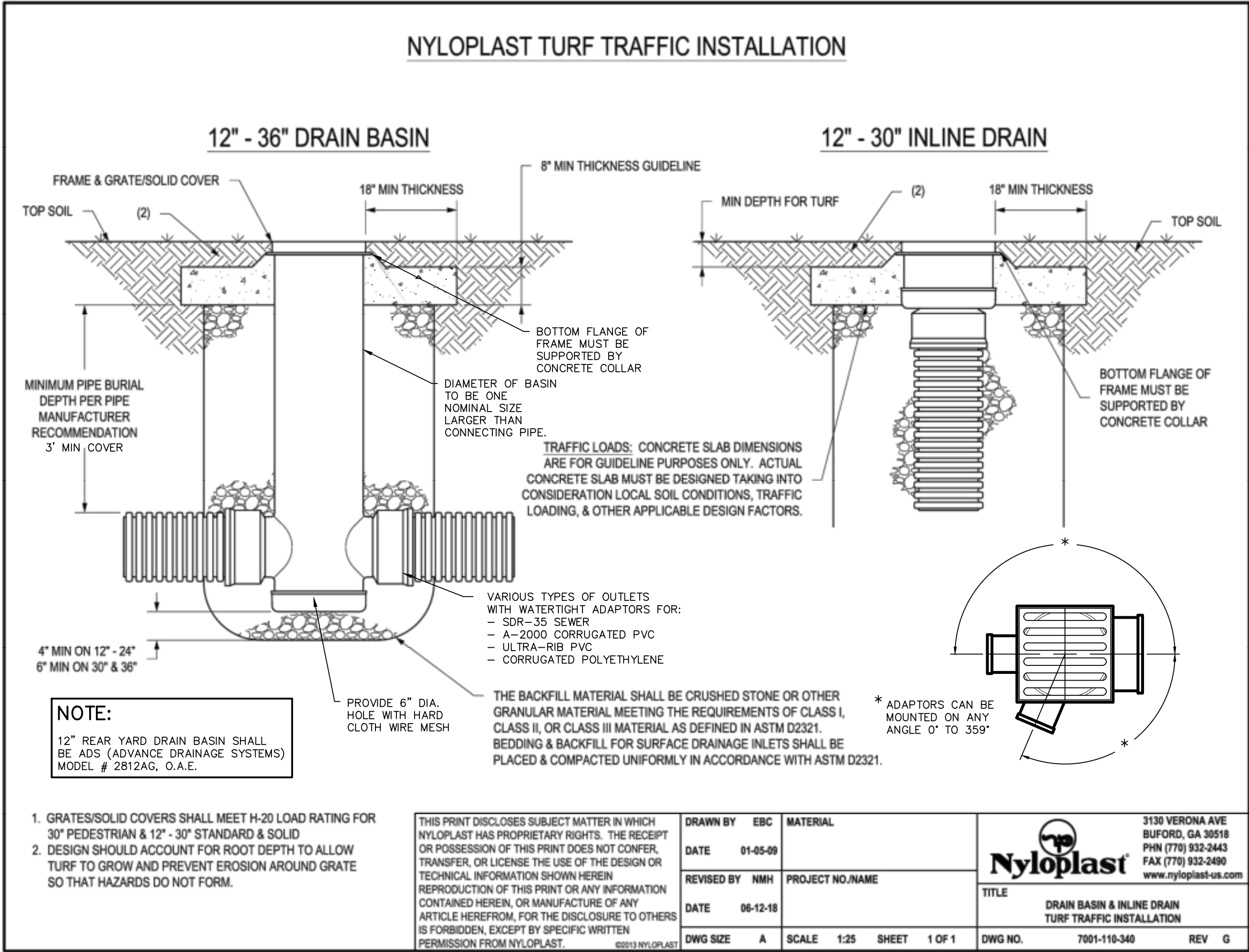
CHECKED BY
BW

DRAWING TITLE

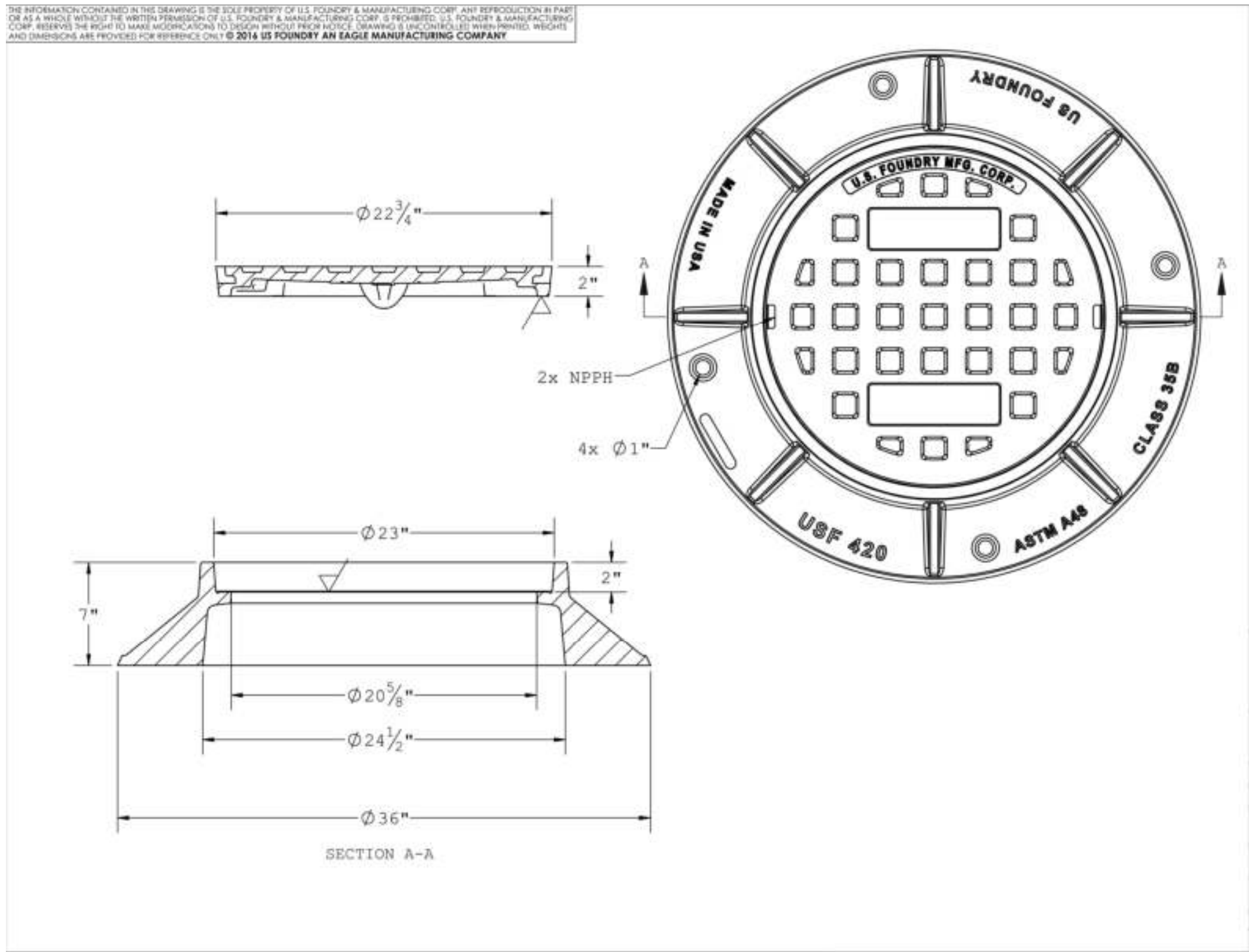
CONSTRUCTION DETAILS

DRAWING NUMBER

DET-2
23 OF 24



13 DOGHOUSE MANHOLE
N.T.S.



14 USF 420 RING & C COVER
N.T.S.

REGISTRATION

CLIENT



TOWN OF PALM BEACH
PUBLIC WORKS DEPARTMENT
951 OKEECHOBEE ROAD
WEST PALM BEACH, FL 33401

PROJECT INFORMATION

**NORTH COUNTY
ROAD DRAINAGE
IMPROVEMENTS**

TOWN OF PALM
BEACH, FLORIDA

PROJECT NUMBER
21-0431.00039

CLIENT PROJECT NUMBER

VERIFY SCALES

0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
12/22/2022

DESIGNED BY
DC

DRAWN BY
JH

CHECKED BY
BW

DRAWING TITLE

**CONSTRUCTION
DETAILS**

DRAWING NUMBER

DET-3
24 OF 24