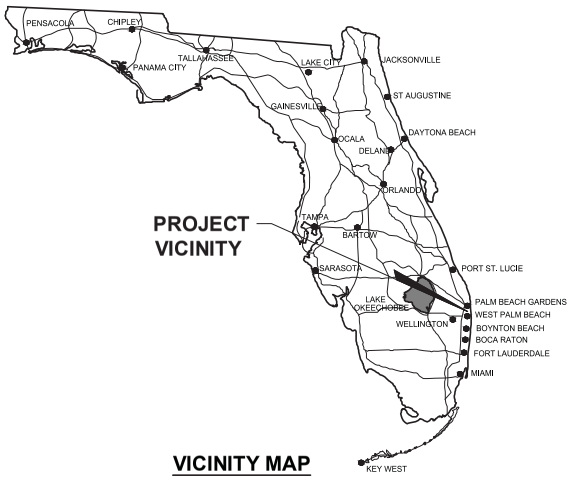
SITE DEVELOPMENT PLANS FOR

NAUTILUS 220

SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA



VICINITY MAP

NOT TO SCALE

LOCATION MAP

NOT TO SCALE

- FDOT ACCESS PERMIT: 2020-A-496-00055
- FDOT DRAINAGE PERMIT: 2020-D-496-00020
- FDOT LANDSCAPE PERMIT: 2022-L-496-00005
- FEDERAL HIGHWAY SPEED LIMIT: 35 MPH
- REFER TO FDOT STANDARD PLANS FY 2023/2024 FOR SPECIFICATIONS

INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
1	TITLE SHEET
2	DEMOLITION PLAN
3	MASTER PLAN
4-7	PAVING AND DRAINAGE PLAN
8-10	PAVING AND DRAINAGE DETAILS
11	POLLUTION PREVENTION PLAN
12-15	WATER AND WASTEWATER PLAN
16	SANITARY SEWER PROFILE
17-23	FORCE MAIN PROFILE PLAN
24-28	WATER AND WASTEWATER DETAILS
29-30	LIFT STATION PLAN AND DETAILS

ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ERIK R. COOPER, P.E. ON 12/23/2024.

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Erik R Cooper

7.) REVISED PLANS REVISION 4, 11/05/24 C.O.
6.) REVISED PER SEACOAST COMMENTS, 06/15/23 C.O.
5.) REVISED PER SEACOAST COMMENTS. 03/27/23 C.O.
4.) REVISED PER SEACOAST COMMENTS. 11/09/22 C.O.
3.) 1ST BLDG. DEPT. REVIEW COMMENTS, 08/31/22 C.O.
2.) REVISIONS PER S.U.A. COMMENTS, 03/25/22 C.O.
1.) REVISIONS PER F.D.O.T. COMMENTS, 10/30/20 B.L.

REVISIONS

SIMMONS & WHITE
3581 Metrocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3632 | 561.478.7848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
TITLE SHEET

JOB NO. 19-038

SHEET 1 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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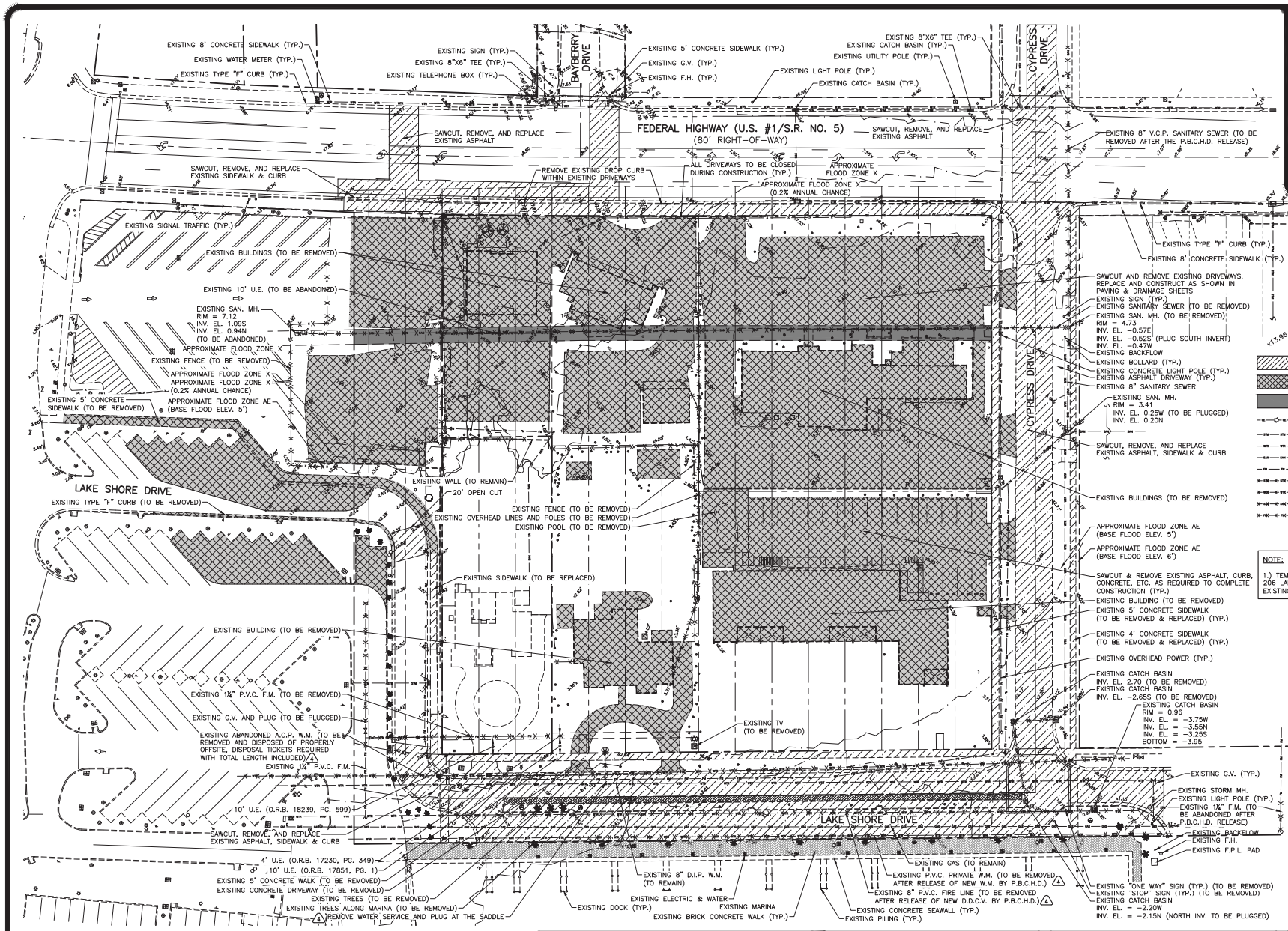

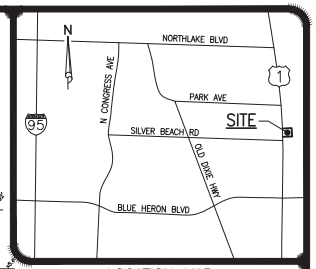

LOCATION MAP

NOT TO SCALE

N

30 15 0 30 60

SCALE IN FEET
1"=30'

LEGEND

- EXISTING GRADE ELEVATION
- SAWCUT, REMOVE, & REPLACE EXISTING PAVEMENT, CONCRETE, CURB, ETC.
- SAWCUT & REMOVE EXISTING PAVEMENT, CONCRETE, CURB, ETC.
- EXISTING EASEMENT TO BE ABANDONED
- EXISTING OVERHEAD POWER LINE & POWER POLE
- EXISTING STORM DRAINAGE PIPE
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- EXISTING FORCE MAIN
- EXISTING STORM DRAINAGE PIPE (TO BE REMOVED)
- EXISTING WATER MAIN (TO BE REMOVED)
- EXISTING SEWER MAIN (TO BE REMOVED)
- EXISTING FORCE MAIN (TO BE REMOVED)

NOTE:

1.) TEMPORARY FORCE MAIN AND PRIVATE LIFT STATION FOR 206 LAKE SHORE DRIVE NEEDS TO BE INSTALLED BEFORE EXISTING 8" SANITARY SEWER CAN BE REMOVED.

48 HOURS BEFORE DIGGING
BROWARD • PALM BEACH • INDIAN RIVER
ST. LUCIE • MARTIN COUNTIES
CALL
1-800-432-4770
SUNSHINE STATE 1 CALL
UNDERGROUND UTILITIES
NOTIFICATION CENTER

ERIK R. COOPER
LICENSED
No 56934
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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REVISIONS

4 PERMIT REVISIONS 2, 06/02/23 C.O.
REVISIONS PER S.U.A. COMMENTS, 11/09/22 C.O.
3.) REVISIONS PER S.U.A. COMMENTS, 03/08/22 C.O.
2.) REVISIONS PER F.D.O.T. COMMENTS, 12/30/20 R.W.
1.) REVISIONS PER F.D.O.T. COMMENTS, 10/30/20 B.L.

SIMMONS & WHITE
3595 Metrocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3453 | 561.478.7848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
DEMOLITION PLAN

JOB NO. 19-038

SHEET 2 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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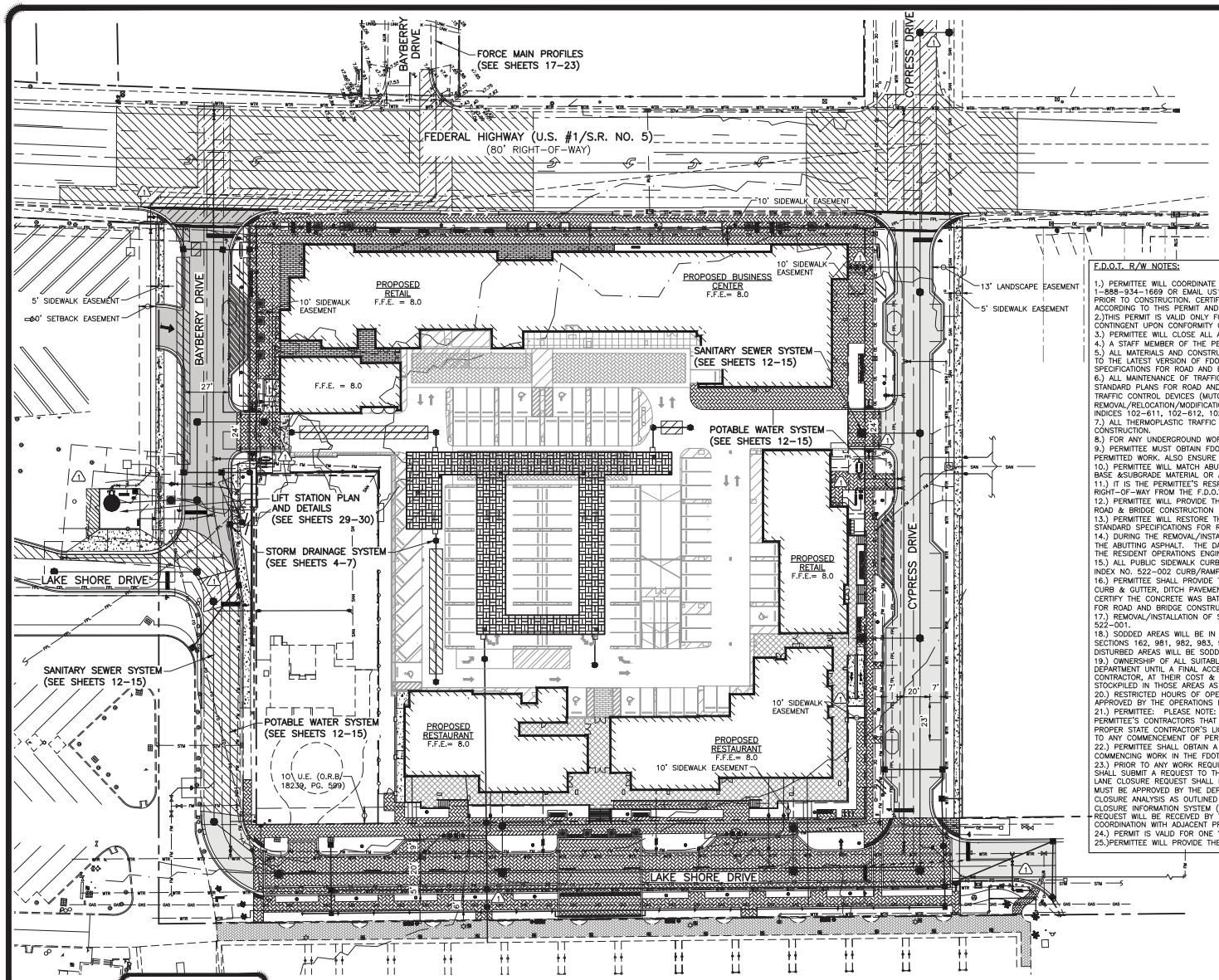

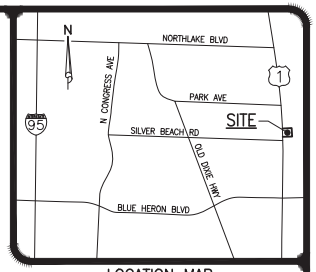

LOCATION MAP
NOT TO SCALE

N

30 15 0 30 60
SCALE IN FEET
1"=30'

F.D.O.T. R/W NOTES:

1.) PERMITTEE WILL COORDINATE (I.E. PRE-CONSTRUCTION MEETINGS, INSPECTIONS, FINAL ACCEPTANCE OF WORK, ETC.) WITH LOUIS BERGER @ 1-888-934-1669 OR EMAIL US1-A1A-PERMITS@LOUISBERGER.COM. COORDINATION WILL INCLUDE A PRE-CONSTRUCTION MEETING 48 HOURS PRIOR TO CONSTRUCTION, CERTIFICATION ACCEPTANCE AND FINAL APPROVAL IS CONTINGENT UPON CONFORMITY OF ALL WORK COMPLETED ACCORDING TO THIS PERMIT AND THE RESTORATION OF THE RIGHT OF WAY.
2.)THIS PERMIT IS VALID ONLY FOR WORK PROPOSED WITHIN THE D.O.T. RIGHT-OF-WAY. CERTIFICATION ACCEPTANCE AND FINAL APPROVAL IS CONTINGENT UPON CONFORMITY OF ALL WORK COMPLETED ACCORDING TO THIS PERMIT AND THE RESTORATION OF THE RIGHT OF WAY.
3.) PERMITTEE WILL CLOSE ALL ACCESS POINTS FROM PROPERTY TO US-1.
4.) A STAFF MEMBER OF THE PERMITTEE/UAO SHALL ATTEND ALL REQUIRED FDOT FIELD MEETINGS AND/OR INSPECTIONS.
5.) ALL MATERIALS AND CONSTRUCTION WITHIN THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN (F.D.O.T.) RIGHT-OF-WAY SHALL CONFORM TO THE LATEST VERSION OF FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND LATEST VERSION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
6.) ALL MAINTENANCE OF TRAFFIC M.O.T. FOR THIS PROJECT WILL BE IN COMPLIANCE WITH THE DEPARTMENTS CURRENT EDITION OF THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION INDICES, (102-600 SERIES) AND THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE OPERATIONS ENGINEER OR HIS DESIGNEE RESERVES THE RIGHT TO DIRECT THE REMOVAL/RELOCATION/MODIFICATION OF ANY TRAFFIC DEVICES(S) AT THE PERMITTEE'S SOLE EXPENSE. SPECIAL ATTENTION WILL BE GIVEN TO INDICES 102-611, 102-612, 102-613, 102-614, 102-615, 102-616 AND 102-660.
7.) ALL THERMOPLASTIC TRAFFIC STRIPES, MARKINGS AND SIGNAGE WILL BE INSTALLED PER THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION.
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9.) PERMITTEE MUST OBTAIN FDOT UTILITY PERMIT FOR RELOCATION/INSTALLATION OF UTILITY FACILITIES WITHIN FDOT R/W PRIOR TO COMMENCING PERMITTED WORK. ALSO ENSURE ALL UTILITY WORK PERFORMED WITHIN FDOT R/W OBTAINS PROPER UTILITY PERMITS BY RESPECTIVE UAO'S.
10.) PERMITTEE WILL MATCH ABUTTING PAVEMENT SECTION ADJACENT TO PERMITTED WORK WHICH INCLUDES THICKNESS AND TYPE OF ASPHALT & BASE &SUBGRADE MATERIAL OR AS DIRECTED BY THE LOCAL RESIDENT OPERATIONS ENGINEER OR DESIGNEE.
11.) IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN FINAL ACCEPTANCE OF PERMITTED WORK (COMPLETED) AND THE RESTORATION OF THE RIGHT-OF-WAY FROM THE F.D.O.T. PRIOR TO USAGE.
12.) PERMITTEE WILL PROVIDE THE NECESSARY DENSITIES IN ACCORDANCE WITH SECTION 125-8 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION (LATEST EDITION) PRIOR TO FINAL ACCEPTANCE BY THE F.D.O.T.
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15.) ALL PUBLIC SIDEWALK CURB RAMPS WILL MEET THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION) INDEX NO. 522-002 CURB/RAMP INSPECTIONS REQUIRED PRIOR TO INSTALLATION OF CONCRETE.
16.) PERMITTEE SHALL PROVIDE THE PRODUCER'S CERTIFICATION (DELIVERY TICKET) FOR THE NS CONCRETE-2500 PSI (USED FOR SIDEWALK, CURB & GUTTER, DITCH PAVEMENT AND TRAFFIC SEPARATOR) PRIOR TO FINAL ACCEPTANCE BY THE DEPARTMENT. THE DELIVERY TICKET SHALL CERTIFY THE CONCRETE WAS BATCHED, DELIVERED AND PLACED IN ACCORDANCE WITH SECTION 347 OF THE F.D.O.T.'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION).
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18.) SODDED AREAS WILL BE IN ACCORDANCE WITH FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION INDEX 570-010 AND SECTIONS 162, 981, 982, 983, 987 OF THE F.D.O.T.'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. ALL DISTURBED AREAS WILL BE SODDED WITHIN ONE (1) WEEK OF INSTALLATION OF SAID PERMITTED WORK.
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20.) RESTRICTED HOURS OF OPERATION FOR LANE CLOSURES WILL BE FROM 9:00AM TO 4:00 PM, (MONDAY-FRIDAY), UNLESS OTHERWISE APPROVED BY THE OPERATIONS ENGINEER, OR DESIGNEE. MOT SHALL BE PICKED UP BY 4:00 PM AND NOT START BEFORE 9:00 AM.
21.) PERMITTEE: PLEASE NOTE:
PERMITTEE'S CONTRACTORS THAT ARE PERFORMING PERMITTED WORK ACTIVITIES SHALL PROVIDE THE F.D.O.T. (PERMIT OFFICE) PROOF OF A PROPER STATE CONTRACTOR'S LICENSE, CERTIFICATE OF LIABILITY INSURANCE AND MOT CERT W/ 24/7 CONTACT # AND EMAIL ATTACHED PRIOR TO ANY COMMENCEMENT OF PERMITTED WORK.
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NOTE: ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 BASED ON A SURVEY PREPARED BY BASELINE LAND SURVEY LLC (561) 417-0700.

ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

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1) PERMIT REVISIONS 2, 06/02/23 C.O.
REVISED PER S.U.A., 6/15/23 C.O.
2.) REVISIONS PER F.D.O.T. COMMENTS, 12/30/20 R.W.
3.) REVISIONS PER F.D.O.T. COMMENTS, 10/30/20 B.L.

REVISIONS

SIMMONS & WHITE
3585 Motorcentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 34513 | 561.478.7848

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E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
MASTER PLAN

JOB NO. 19-038

SHEET 3 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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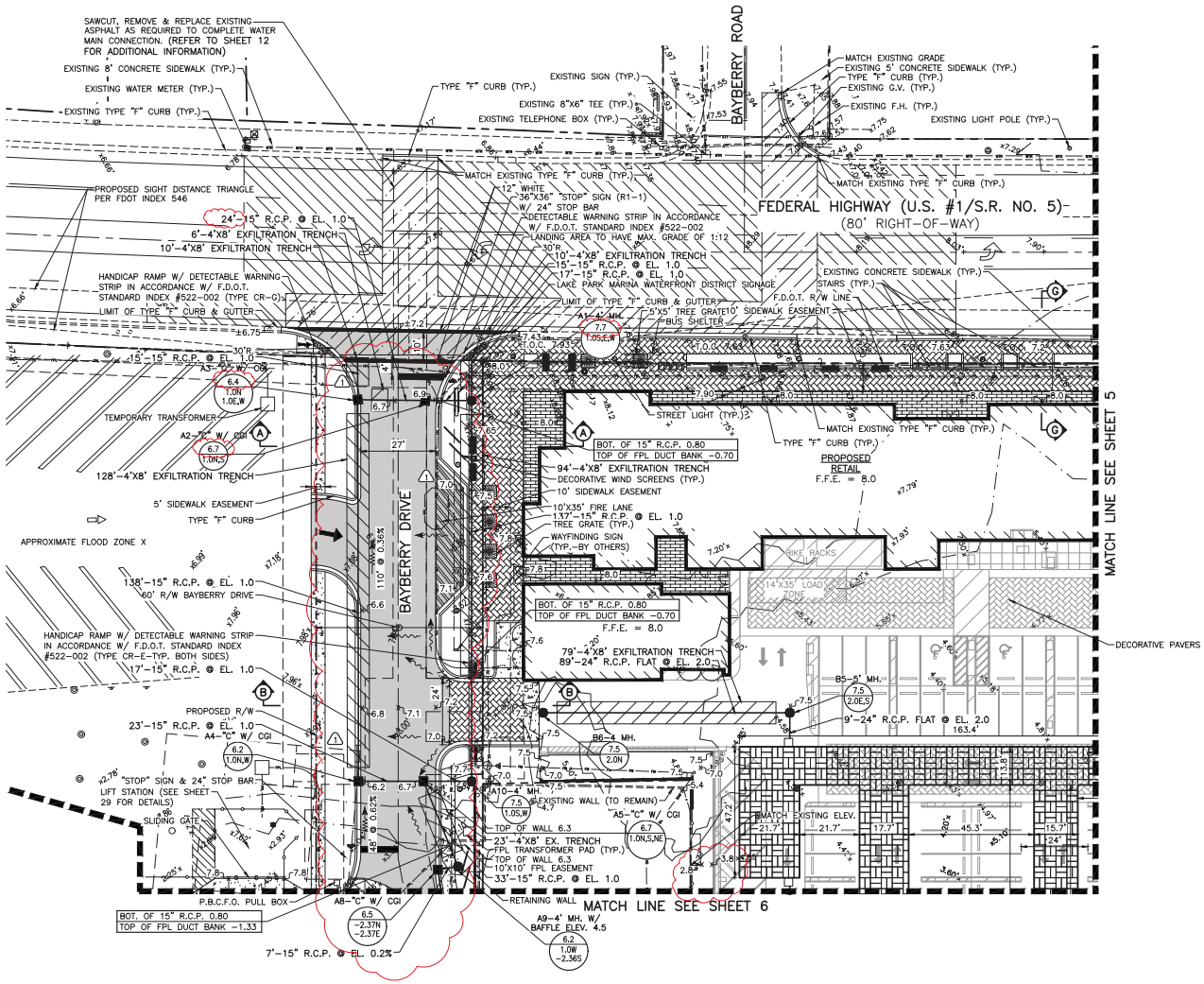
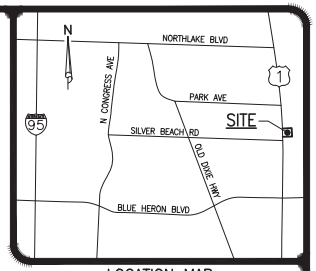
NOTES:

1.) CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL EXISTING UTILITY LOCATES, SUPPORT, RELOCATIONS AND NOTIFICATIONS REQUIRED WITH ALL APPLICABLE UTILITY SERVICE PROVIDERS.

2.) ALL PAVEMENT MARKINGS IN FDOT R/W TO BE THERMOPLASTIC.





LOCATION MAP
NOT TO SCALE

N

20 10 0 20 40
SCALE IN FEET
1"=20'

LEGEND

- PROPOSED STORM SEWER AND CATCH BASIN
- DIRECTION OF FLOW
- DIRECTION OF SWALE
- PROPOSED TOPO
- EXISTING GRADE ELEVATION
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED DECORATIVE CONCRETE
- PROPOSED BRICK PAVERS
- PROPOSED DETECTABLE WARNING SURFACE
- PROPOSED STORMBRIXX STORAGE
- MILL AND RESURFACE
- PROPOSED DIRECTIONAL ARROW
- PROPOSED 24" WHITE STOP BAR, "STOP" SIGN & 6" DOUBLE YELLOW STRIPE
- PROPOSED LIGHT POLE (BY OTHERS)
- EXISTING OVERHEAD POWER LINE & POWER POLE
- EXISTING STORM DRAINAGE PIPE
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- EXISTING FORCE MAIN

F.D.O.T. R/W

MILL & RESURFACE SPECIFICATIONS:

MILL EXISTING ASPHALT CONCRETE PAVEMENT 1½" AVERAGE RESURFACE W/ FC-12.5 (165 LB/SY) (RUBBER)

F.D.O.T. R/W PAVEMENT SPECIFICATIONS:

ALONG US #1 (SR NO.5):
SURFACE - 1.5" FRICTION COURSE FC-9.5 (160 LB/SY AVG.) (RUBBER) AND 2" STRUCTURAL COURSE TYPE SP (200 LB/SY AVG., TRAFFIC LEVEL B)

BASE - OPTIONAL GROUP 13

SUBGRADE - 12" STABILIZED SUBGRADE, COMPACT TO 98% PER A.A.S.H.T.O. T-180 (LBR 40)

NOTE: ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 BASED ON A SURVEY PREPARED BY BASELINE LAND SURVEY LLC (561) 417-0700.

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SUNSHINE STATE 1 CALL
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NOTIFICATION CENTER

ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ERIK R. COOPER, P.E. ON 12/23/2024.

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7.) REVISED BAYBERRY DRIVE REVISION 4, 11/05/24 C.O.
6.) REVISED EXFILTRATION TRENCH, 04/16/24 C.O.
5.) REVISED STORMBRIXX LAYOUT, REVISED DRIVEWAY ENTRANCES FOR PAVER BRICKS PER HARDSCAPE PLAN, 01/11/24 C.O.
4.) REVISED PERIMETER GRADES & WALLS, 01/09/24 C.O.
3.) PERMIT REVISIONS 2, 06/02/23 C.O.
3.) ADDED GRADES ALONG EAST PROPERTY LINE, 8/25/22 C.O.
2.) REVISIONS PER F.D.O.T. COMMENTS, 12/30/20 R.W.
1.) REVISIONS PER F.D.O.T. COMMENTS, 10/30/20 B.L.

REVISIONS

SIMMONS & WHITE
3585 Motocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 34513 | 561.478.2848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
PAVING AND DRAINAGE PLAN

JOB NO. 19-038

SHEET 4 OF 30

TOWN OF LAKE PARK BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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F.D.O.T. R/W NOTES:

1.) PERMITTEE WILL COORDINATE (I.E. PRE-CONSTRUCTION MEETINGS, INSPECTIONS, FINAL ACCEPTANCE OF WORK, ETC.) WITH LOUIS BERGER @ 1-888-934-1669 OR EMAIL US1-A1A-PERMITS@LOUISBERGER.COM. COORDINATION WILL INCLUDE A PRE-CONSTRUCTION MEETING 48 HOURS PRIOR TO CONSTRUCTION. CERTIFICATION ACCEPTANCE AND FINAL APPROVAL IS CONTINGENT UPON CONFORMITY OF ALL WORK COMPLETED ACCORDING TO THIS PERMIT AND THE RESTORATION OF THE RIGHT OF WAY.
2.)THIS PERMIT IS VALID ONLY FOR WORK PROPOSED WITHIN THE D.O.T. RIGHT-OF-WAY. CERTIFICATION ACCEPTANCE AND FINAL APPROVAL IS CONTINGENT UPON CONFORMITY OF ALL WORK COMPLETED ACCORDING TO THIS PERMIT AND THE RESTORATION OF THE RIGHT OF WAY.
3.) PERMITTEE WILL CLOSE ALL ACCESS POINTS FROM PROPERTY TO US-1.
4.) A STAFF MEMBER OF THE PERMITTEE/UAO SHALL ATTEND ALL REQUIRED FDOT FIELD MEETINGS AND/OR INSPECTIONS.
5.) ALL MATERIALS AND CONSTRUCTION WITHIN THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN (F.D.O.T.) RIGHT-OF-WAY SHALL CONFORM TO THE LATEST VERSION OF FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND LATEST VERSION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
6.) ALL MAINTENANCE OF TRAFFIC M.O.T. FOR THIS PROJECT WILL BE IN COMPLIANCE WITH THE DEPARTMENTS CURRENT EDITION OF THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION INDICES, (102-600 SERIES) AND THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE OPERATIONS ENGINEER OR HIS DESIGNEE RESERVES THE RIGHT TO DIRECT THE REMOVAL/RELOCATION/MODIFICATION OF ANY TRAFFIC DEVICES(S) AT THE PERMITTEE'S SOLE EXPENSE. SPECIAL ATTENTION WILL BE GIVEN TO INDICES 102-611, 102-612, 102-613, 102-614, 102-615, 102-616 AND 102-660.
7.) ALL THERMOPLASTIC TRAFFIC STRIPES, MARKINGS AND SIGNAGE WILL BE INSTALLED PER THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION.
8.) FOR ANY UNDERGROUND WORK, THE CONTRACTOR MUST CONTACT SIGNAL TRAFFIC CONTROL MAINTAINING AGENCY PRIOR TO CONSTRUCTION.
9.) PERMITTEE MUST OBTAIN FDOT UTILITY PERMIT FOR RELOCATION/INSTALLATION OF UTILITY FACILITIES WITHIN FDOT R/W PRIOR TO COMMENCING PERMITTED WORK. ALSO ENSURE ALL UTILITY WORK PERFORMED WITHIN FDOT R/W OBTAINS PROPER UTILITY PERMITS BY RESPECTIVE UAO'S.
10.) PERMITTEE WILL MATCH ABUTTING PAVEMENT SECTION ADJACENT TO PERMITTED WORK WHICH INCLUDES THICKNESS AND TYPE OF ASPHALT & BASE &SUBGRADE MATERIAL OR AS DIRECTED BY THE LOCAL RESIDENT OPERATIONS ENGINEER OR DESIGNEE.
11.) IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN FINAL ACCEPTANCE OF PERMITTED WORK (COMPLETED) AND THE RESTORATION OF THE RIGHT-OF-WAY FROM THE F.D.O.T. PRIOR TO USAGE.
12.) PERMITTEE WILL PROVIDE THE NECESSARY DENSITIES IN ACCORDANCE WITH SECTION 125-8 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION (LATEST EDITION) PRIOR TO FINAL ACCEPTANCE BY THE F.D.O.T.
13.) PERMITTEE WILL RESTORE THE RIGHT OF WAY AS A MINIMUM, TO ITS ORIGINAL CONDITION OR BETTER IN ACCORDANCE W/F.D.O.T.'S LATEST STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION OR AS DIRECTED BY THE RESIDENT OPERATIONS ENGINEER.
14.) DURING THE REMOVAL/INSTALLATION OF ANY CURB AND GUTTER SECTION, THE PERMITTEE WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE ABUTTING ASPHALT. THE DAMAGED ASPHALT REPAIR WILL BE IN ACCORDANCE WITH THE CURRENT SPECIFICATIONS AND/OR AS DIRECTED BY THE RESIDENT OPERATIONS ENGINEER.
15.) ALL PUBLIC SIDEWALK CURB RAMPS WILL MEET THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION) INDEX NO. 522-002 CURB/RAMP INSPECTIONS REQUIRED PRIOR TO INSTALLATION OF CONCRETE.
16.) PERMITTEE SHALL PROVIDE THE PRODUCER'S CERTIFICATION (DELIVERY TICKET) FOR THE NS CONCRETE-2500 PSI (USED FOR SIDEWALK, CURB & GUTTER, DITCH PAVEMENT AND TRAFFIC SEPARATOR) PRIOR TO FINAL ACCEPTANCE BY THE DEPARTMENT. THE DELIVERY TICKET SHALL CERTIFY THE CONCRETE WAS BATCHED, DELIVERED AND PLACED IN ACCORDANCE WITH SECTION 347 OF THE F.D.O.T.'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION).
17.) REMOVAL/INSTALLATION OF SIDEWALK WILL BE IN ACCORDANCE WITH STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION INDEX 522-001.
18.) SODDED AREAS WILL BE IN ACCORDANCE WITH FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION INDEX 570-010 AND SECTIONS 162, 981, 982, 983, 987 OF THE F.D.O.T.'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. ALL DISTURBED AREAS WILL BE SODDED WITHIN ONE (1) WEEK OF INSTALLATION OF SAID PERMITTED WORK.
19.) OWNERSHIP OF ALL SUITABLE EXCAVATED MATERIALS WITHIN THE FDOT R/W, AS DETERMINED BY THE F.D.O.T., SHALL REMAIN IN THE DEPARTMENT UNTIL A FINAL ACCEPTANCE OF THE PERMITTED PROJECT IS FULFILLED. EXCAVATED MATERIALS SHALL BE HAULED BY THE CONTRACTOR, AT THEIR COST & EXPENSE FROM THE SITE TO THE PALM BEACH OPERATIONS CENTER, 7900 W FOREST HILL BLVD OR STOCKPILED IN THOSE AREAS AS DIRECTED BY THE DOT, INCLUDING ASPHALT MILLINGS.
20.) RESTRICTED HOURS OF OPERATION FOR LANE CLOSURES WILL BE FROM 9:00AM TO 4:00 PM, (MONDAY-FRIDAY), UNLESS OTHERWISE APPROVED BY THE OPERATIONS ENGINEER, OR DESIGNEE. MOT SHALL BE PICKED UP BY 4:00 PM AND NOT START BEFORE 9:00 AM.
21.) PERMITTEE: PLEASE NOTE:
PERMITTEE'S CONTRACTORS THAT ARE PERFORMING PERMITTED WORK ACTIVITIES SHALL PROVIDE THE F.D.O.T. (PERMIT OFFICE) PROOF OF A PROPER STATE CONTRACTOR'S LICENSE, CERTIFICATE OF LIABILITY INSURANCE AND MOT CERT W/ 24/7 CONTACT # AND EMAIL ATTACHED PRIOR TO ANY COMMENCEMENT OF PERMITTED WORK.
22.) PERMITTEE SHALL OBTAIN A FDOT UTILITY PERMIT FOR INSTALLATION AND/OR RELOCATION OF EXISTING UTILITY FACILITIES PRIOR TO COMMENCING WORK IN THE FDOT R/W.
23.) PRIOR TO ANY WORK REQUIRING LANE CLOSURES, MOBILE OPERATIONS OR TRAFFIC PACING OPERATIONS, THE CONTRACTOR OR PERMITTEE SHALL SUBMIT A REQUEST TO THE DEPARTMENT THAT INCLUDES THE TIME, LOCATION, AND DESCRIPTION OF THE WORK BEING PERFORMED. THE LANE CLOSURE REQUEST SHALL BE SUBMITTED TO THE DEPARTMENT A MINIMUM OF 2 WEEKS PRIOR TO THE PROPOSED CLOSURE DATE AND MUST BE APPROVED BY THE DEPARTMENT BEFORE WORK, REQUIRING THE CLOSURE WITHIN FDOT R/W. YOU MUST ALSO COMPLY WITH THE LANE CLOSURE ANALYSIS AS OUTLINED IN THE FDOT DESIGN MANUAL (FDM) 241.1 & 240.4.2.7. THE REQUEST SHALL BE ENTERED INTO THE LANE CLOSURE INFORMATION SYSTEM (LCIS) BY THE PERMITTEE AT THE FOLLOWING URL ADDRESS: HTTPS://WWW.FDOTLCIS.COM/LOGIN.ASPX. EACH REQUEST WILL BE RECEIVED BY THE APPROPRIATE DEPARTMENT PERSONNEL FOR COMPLIANCE WITH CONTRACT OR PERMIT REQUIREMENTS AND COORDINATION WITH ADJACENT PROJECTS OR WORK ACTIVITIES.
24.) PERMIT IS VALID FOR ONE YEAR FROM DATE OF ISSUE.
25.)PERMITTEE WILL PROVIDE THE F.D.O.T. WITH CERTIFIED "AS-BUILT" PLANS PRIOR TO FINAL ACCEPTANCE OF THE PERMITTED WORK.

NOTE: ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 BASED ON A SURVEY PREPARED BY BASELINE LAND SURVEY LLC (561) 417-0700.

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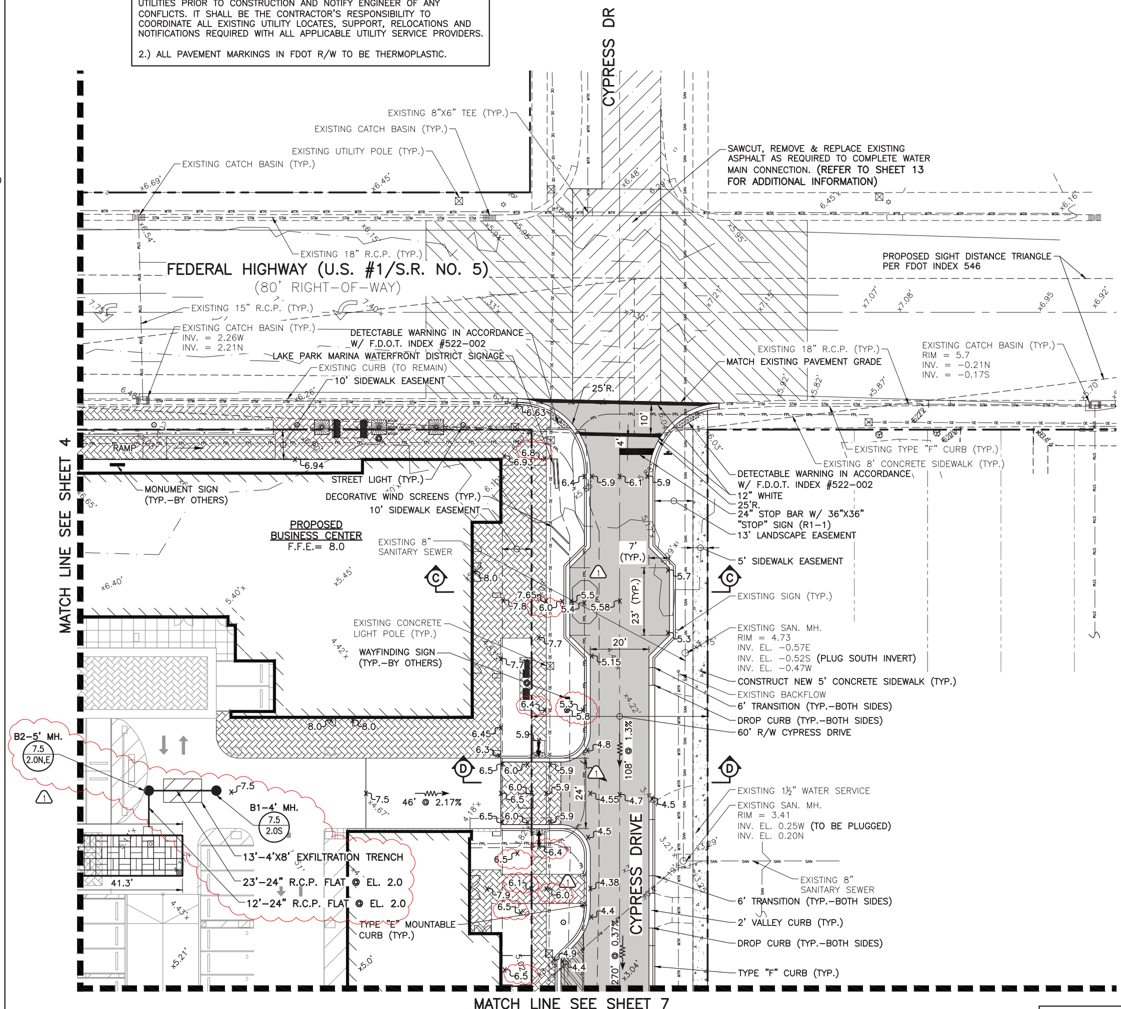
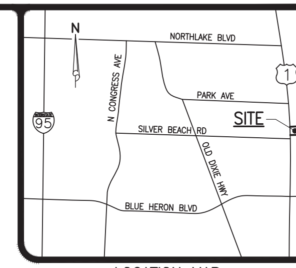
NOTIFICATION CENTER

NOTES:

1.) CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL EXISTING UTILITY LOCATES, SUPPORT, RELOCATIONS AND NOTIFICATIONS REQUIRED WITH ALL APPLICABLE UTILITY SERVICE PROVIDERS.

2.) ALL PAVEMENT MARKINGS IN FDOT R/W TO BE THERMOPLASTIC.





LOCATION MAP
NOT TO SCALE

SCALE IN FEET
1"=20'

LEGEND

- PROPOSED STORM SEWER AND CATCH BASIN
- DIRECTION OF FLOW
- DIRECTION OF SWALE
- PROPOSED TOPO
- EXISTING GRADE ELEVATION
- PROPOSED ASPHALT
- PROPOSED CONCRETE
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F.D.O.T. R/W

MILL & RESURFACE SPECIFICATIONS:

MILL EXISTING ASPHALT CONCRETE PAVEMENT 1½" AVERAGE RESURFACE W/ FC-12.5 (165 LB/SY) (RUBBER)

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ALONG US #1 (SR NO.5):
SURFACE – 1.5" FRICTION COURSE FC-9.5 (160 LB/SY AVG.) (RUBBER) AND 2" STRUCTURAL COURSE TYPE SP (200 LB/SY AVG., TRAFFIC LEVEL B)

BASE – OPTIONAL GROUP 13

SUBGRADE – 12" STABILIZED SUBGRADE, COMPACT TO 98% PER A.A.S.H.T.O. T-180 (LBR 40)

5.) REVISED FPL RAMP GRADES REVISION 4, 11/5/24 C.O.
4.) REVISED STORMBRIXX LAYOUT, REVISED DRIVEWAY ENTRANCES FOR PAVER BRICKS PER HARDSCAPE PLAN, 01/11/24 C.O.
△1 PERMIT REVISIONS 2, 06/02/23 C.O., 06/02/22 C.O.

REVISED NORTH DRIVEWAY GRADES & FPL VAULT, 04/19/23 C.O.
ADJUSTED B1 AND B2 FOR GRADE BEAM CONFLICT, 10/24/22 C.O.
3.) 1ST BLDG. DEPT. REVIEW COMMENTS, 08/31/22 C.O.
2.) REVISIONS PER F.D.O.T. COMMENTS, 12/30/20 R.W.
1.) REVISIONS PER F.D.O.T. COMMENTS, 10/30/20 B.L.

REVISIONS

ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

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E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
PAVING AND DRAINAGE PLAN

JOB NO. 19-038

SHEET 5 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

NOTES:

1.) CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL EXISTING UTILITY LOCATES, SUPPORT, RELOCATIONS AND NOTIFICATIONS REQUIRED WITH ALL APPLICABLE UTILITY SERVICE PROVIDERS.

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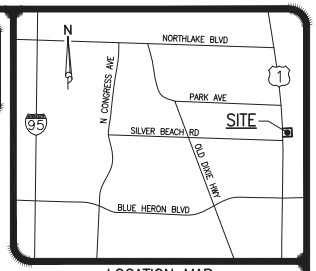
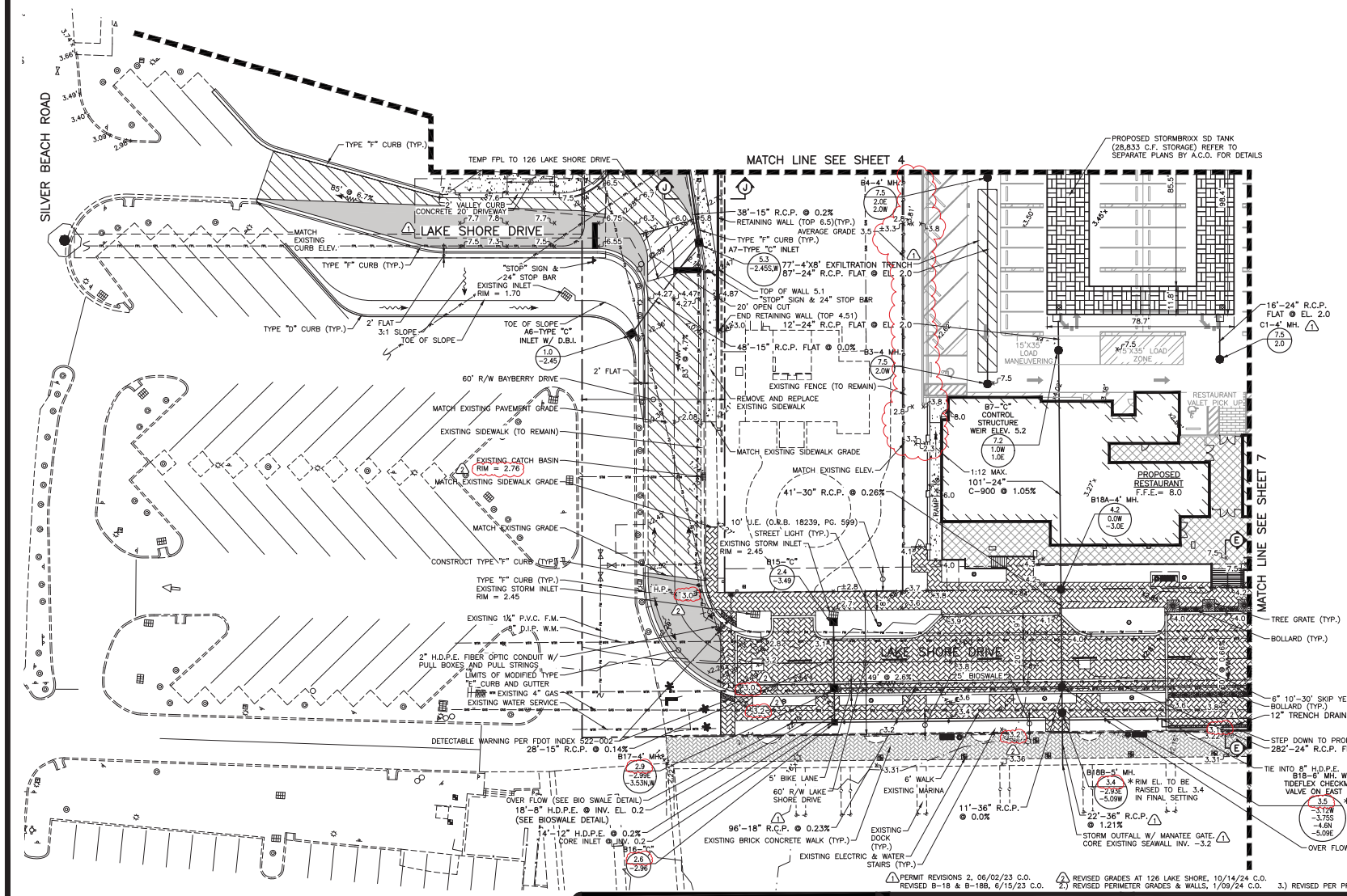


LOCATION MAP
NOT TO SCALE



LEGEND

- PROPOSED STORM SEWER AND CATCH BASIN
- DIRECTION OF FLOW
- DIRECTION OF SWALE
- PROPOSED TOPO
- EXISTING GRADE ELEVATION
- PROPOSED ASPHALT
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- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- EXISTING FORCE MAIN

SCALE IN FEET 1"=20'

1.) PERMIT REVISIONS 2, 06/02/23 C.O.
REVISED B-18 & B-18B, 6/15/23 C.O.

2.) REVISED GRADES AT 126 LAKE SHORE, 10/14/24 C.O.
2.) REVISED PERIMETER GRADES & WALLS, 1/09/24 C.O.

3.) REVISED PER PROJECT CHANGES REVISION 4, 11/05/24 C.O.

NOTE: ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 BASED ON A SURVEY PREPARED BY BASELINE LAND SURVEY LLC (561) 417-0700.

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REVISED OUTFALL PIPE INVERT AND PIPE MATERIAL, 4/28/23 C.O.
ADJUSTED EXFILTRATION TRENCH LENGTH BETWEEN B3 & B4, 10/25/22 C.O.
ADDED STORM MANHOLE C1 PER PLUMBING PLAN, 9/27/22 C.O.
1.) REVISED DRAINAGE STRUCTURES B15, B17 & ADDED GRADES ALONG SOUTH PROPERTY LINE, 8/25/22 C.O.

REVISIONS

SIMMONS & WHITE
3581 Metrocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3653 | 561.478.2848

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NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
PAVING AND DRAINAGE PLAN

JOB NO. 19-038
SHEET 6 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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NOTES:

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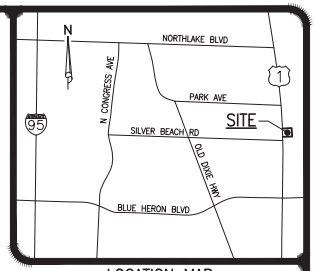
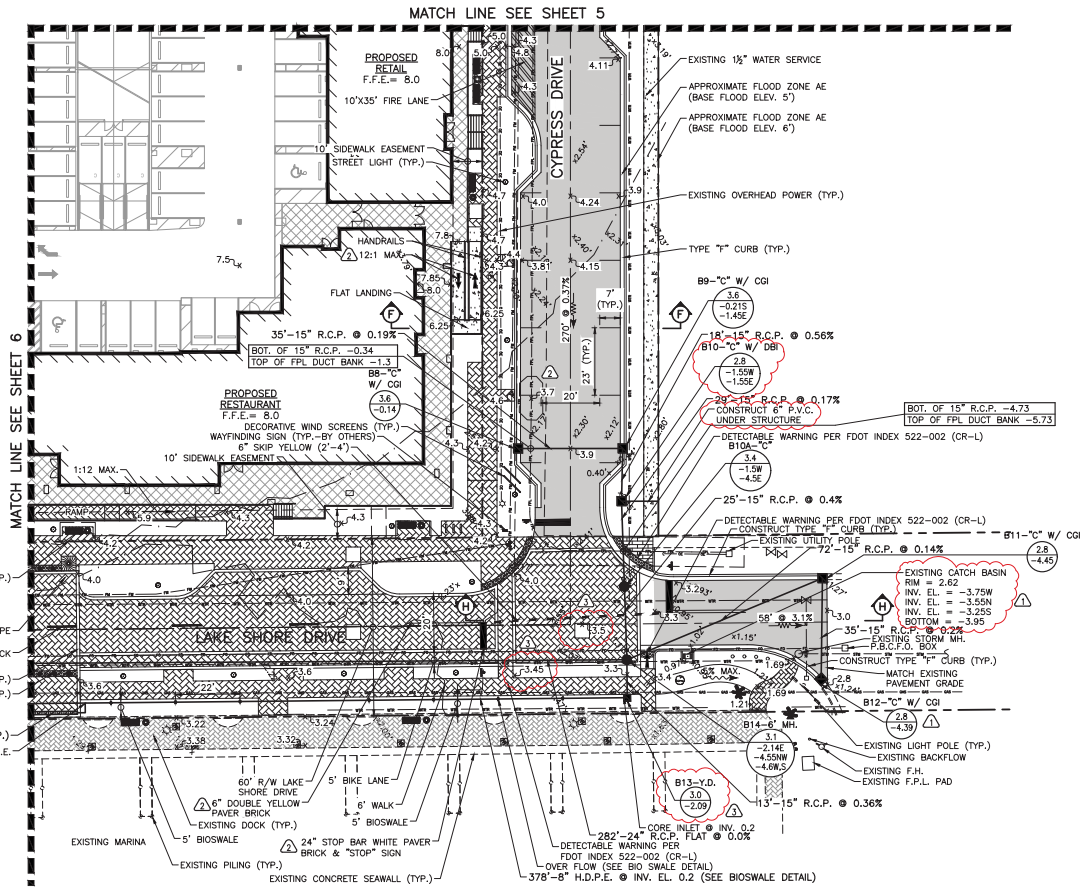


LOCATION MAP
NOT TO SCALE



LEGEND

- PROPOSED STORM SEWER AND CATCH BASIN
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3.) RAISED INLET B10 AND ADDED 6" P.V.C. PIPE FOR DRAINAGE, 12/23/24 C.O.
2.) ADDED STRUCTURE B10A, GRADING REVISION 4, 11/05/24 C.O., 08/19/24 C.O.

ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

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4 REVISED INTERSECTION GRADES & B13 RIM, 08/19/24 C.O.
3 REVISED INTERSECTION GRADES & B13 RIM, 08/19/24 C.O.
2 PERMIT REVISIONS 2, 06/02/23 C.O.
1 1ST BLDG. DEPT. REVIEW COMMENTS, 08/31/22 C.O.
0 ADDED INLET B12, 08/04/22 C.O.

REVISIONS

SIMMONS & WHITE
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Authorization # 34513 | 561.478.7848

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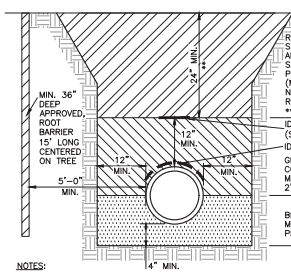
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
PAVING AND DRAINAGE PLAN

JOB NO. 19-038
SHEET 7 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025



NOTES:

1. BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8" - 7/8" SIZING WITH EQUAL OR GREATER STRUCTURAL ADEQUACY AS EXISTING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
2. THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
3. THE PIPE SHALL BE PLACED IN A DRY TRENCH.
4. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGE ROCK, MUCK AND DEBRIS.
5. DENSITY TESTS ARE TAKEN IN 1 FOOT LIFTS ABOVE THE PIPE AT INTERVALS OF 400' MAXIMUM, (MINIMUM 1 SET) OR AS DIRECTED BY THE CONSTRUCTION COORDINATION DIVISION. RESULTS SHALL BE SUBMITTED TO CONSTRUCTION COORDINATION AS PART OF THEIR FIELD REVIEW.
6. THE PERMITTEE/DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL TRENCH SAFETY LAWS AND REGULATIONS.
7. SEE SEPARATE DETAIL FOR PAVED AREAS (OPEN CUT FOR THOROUGHFARE AND NON-THOROUGHFARE ROADS).
8. THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN PERMIT/CONTRACT DOCUMENTS.
*9. APPROVED MAGNETIC TAPE IS REQUIRED FOR ALL MAIN PRESSURE PIPES AND CONDUIT IN THE COUNTY'S RIGHT-OF-WAY. INSTALL TAPE 24" BELOW FINISHED GRADE.
10. ROOT BARRIER IS REQUIRED FOR APPROVED PIPE INSTALLATION CLOSER THAN 10 FEET FROM AN EXISTING TREE.
11. CONTINUOUS 4" WIDE PAINT STRIPING IS REQUIRED FOR DIP/PCCP WATER MAINS (BLUE), DIP SANITARY FORCE MAINS (GREEN), DIP RECLAIMED WATER MAINS (PURPLE), GAS MAINS (YELLOW), OR AS REQUIRED BY THE APWA.
12. PERMANENT ABOVE GROUND UTILITY MARKER SHALL BE INSTALLED IF REQUIRED BY PROPERTY OWNER GRANTING THE PIPE INSTALLATION PERMIT.

TYPICAL TRENCH DETAIL WITH ROOT BARRIER INSTALLATION DETAIL (NON-PAVED AREAS)

NOT TO SCALE

CONSTRUCTION PROCEDURES

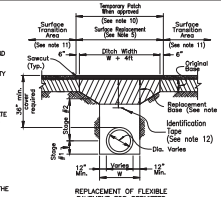
THE BACKFILL FOR THE FIRST AND SECOND STAGES SHALL BE PLACED IN 6" LAYERS (COMPACTED THICKNESS) AND SHALL BE COMPACTED TO 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

STAGE 1:

THE CONTRACTOR SHALL PROVIDE ADEQUATE COMPACTED FILL BENEATH THE HAUNCHES OF THE PIPE, USING MECHANICAL TAMPS SUITABLE FOR THIS PURPOSE. THIS COMPACTION APPLIES TO THE MATERIAL PLACED BENEATH THE HAUNCHES OF THE PIPE AND ABOVE ANY BEDDING REQUIRED.

STAGE 2:

THE CONTRACTOR SHALL OBTAIN A WELL-COMPACTED BED AND FILL ALONG THE SIDES OF THE PIPE AND TO A POINT INDICATING THE TOP OF SUB-GRADE MATERIAL.

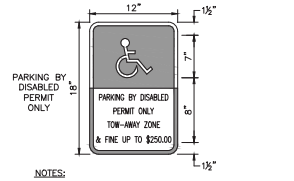


REPLACEMENT OF FLEXIBLE PAVEMENT FOR PERMITTED PAVEMENT CUT

NOTES

1) BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8" - 7/8" SIZING WITH EQUAL OR GREATER STRUCTURAL ADEQUACY AS EXISTING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
2) REPLACED BASE MATERIAL OVER DITCH SHALL BE 18" LIMEROCK (LBR100) MINIMUM FOR THOROUGHFARE PLAN ROADS. ANY ALTERNATE BASE MATERIAL REQUESTED BY THE ENGINEER OF RECORD REQUIRES APPROVAL BY THE ROADWAY PRODUCTION DIVISION.
3) ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED AND BUTT-JOINTED.
4) BASE MATERIAL (PER ROADWAY PRODUCTION DESIGN STANDARDS) SHALL BE PLACED IN TWO OR THREE LAYERS (6" MAX. PER LAYER) AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO THE SPECIFIED DENSITY. (MINIMUM 98% AASHTO T-180)
5) 1.5" FRICTION COURSE FC-9.5 OVER 2" TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL B) WITH TACK COAT AT 0.05 GAL/SY AND RC-70 PRIME COAT AT 0.10 GAL/SY FOR LIMEROCK BASE. FOLLOW THE LATEST FDOT SPECIFICATIONS FOR APPLICATION RATES OF PRIME AND TACK COATS. CONTRACTOR TO SUBMIT MATERIALS AND RATES TO ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.
6) PIPE SHALL BE PLACED IN A DRY TRENCH.
7) ALL ROADWAY REPAIR WORK SHALL BE PERFORMED IN CONFORMANCE WITH APPLICABLE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND COUNTY PPM# EL-0-3605.
8) DENSITY TESTS SHALL BE TAKEN IN 1 FT LIFTS ABOVE THE PIPE AT INTERVALS OF 400 FT MAXIMUM (1 SET MINIMUM) OR AS DIRECTED BY THE CONSTRUCTION COORDINATION DIVISION. RESULTS SHALL BE SUBMITTED TO CONSTRUCTION COORDINATION DIVISION AS PART OF THEIR FIELD REVIEW.
9) ENGINEER-OF-RECORD SHALL PROVIDE FULL-TIME INSPECTION DURING THE ENTIRETY OF THE OPEN-CUT OPERATION, BEGINNING WITH THE EXCAVATION AND CONTINUING THROUGH THE COMPLETION OF THE PAVING.
10) IF THE PAVEMENT IS NOT COMPLETELY RESTORED IMMEDIATELY FOLLOWING THE OPEN CUT, A SMOOTH TEMPORARY PATCH (MINIMUM 1.5" SP 12.5 STRUCTURAL COURSE ASPHALT) SHALL BE INSTALLED, PROPERLY MATCHING THE EXISTING GRADING OF THE ROADWAY. THE TEMPORARY PATCH SHALL BE ALLOWED TO REMAIN IN PLACE AND BE MAINTAINED FOR A PERIOD NO LONGER THAN 45 DAYS. THE COUNTY RESERVES THE RIGHT TO USE POSTED SURETY TO COMPLETE ANY RESTORATION WORK THAT HAS NOT BEEN COMPLETED IN THE 45 DAY PERIOD. ALTERNATIVE TEMPORARY TRENCH PROTECTION (STEEL PLATES OR OTHERS) MAY BE APPROVED BY THE CONSTRUCTION COORDINATION DIVISION.
11) THE FINAL RESTORATION (INCLUDES THE PATCHED/SURFACE REPLACEMENT AREA OVER THE TRENCH). THE ROAD SHALL BE MILLED/RESURFACED PER NOTE 5 ABOVE FOR A FULL LANE WIDTH OF THE TRAVEL LANES ENCROACHED BY THE TRENCH AREA, INCLUDING A TRANSITION AREA OF 50 FT ON EACH SIDE MEASURED FROM TOP OF TRENCH.
12) APPROVED MAGNETIC TAPE IS REQUIRED FOR ALL MAIN PRESSURE PIPES AND CONDUIT IN THE COUNTY'S RIGHT-OF-WAY. INSTALL TAPE 24" BELOW FINISHED GRADE.
13) CONTINUOUS 4" WIDE PAINT STRIPING IS REQUIRED FOR DIP/PCCP WATER MAINS (BLUE), SANITARY MAINS (GREEN), DIP RECLAIMED WATER MAINS (PURPLE), GAS MAINS (YELLOW), OR AS REQUIRED BY THE APWA.

OPEN CUT FOR THOROUGHFARE ROADS (PAVED AREAS)



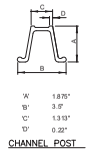
NOTES:

1. ALL LETTERS ARE 1" SERIES 'C'.
2. TOP PORTION TO BE REFLECTORIZED BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND AND BORDER.
3. BOTTOM PORTION TO BE REFLECTORIZED WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.

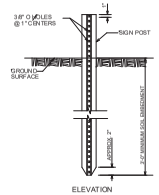
HANDI-CAP SIGN DETAIL

NOT TO SCALE

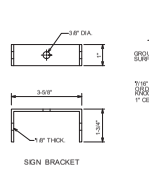
ISOMETRIC VIEW

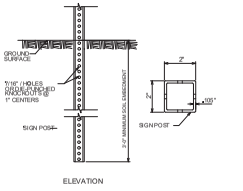


CHANNEL POST



STEEL FLANGED CHANNEL POST DETAILS





STEEL SQUARE TUBE POST DETAILS

GENERAL SPECIFICATIONS:

FLAT BLADE: ALCOA #66054.6063-T6 ALLOY, ETCHED, DEDREASED WITH #1200 ALODINE FINISH WITH #3877 GREEN HIGH INTENSITY BACKGROUND AND EQUAL DIMENSIONS - 9" & 12" MIN. H, 24", 30", 36" AND 42" L.

LETTERS: NAME - 6" UPPERCASE WITH 4.5" LOWERCASE & 9" UPPERCASE WITH 6.75" LOWERCASE, SERIES, "B" #3870 HIGH INTENSITY (SILVER) OR EQUAL - SUFFIX - 4.5"

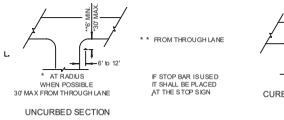
POST: STEEL FLANGED CHANNEL POST 3 LBS. PER FOOT WITH BAKED GREEN ALKYD OR GALVANIZED FINISH PER A.S.T.M. -A-123 WITHOUT ANCHOR PLATES. SQUARE POST PER FDOT INDEX 11860.

BRACKETS SHALL BE ATTACHED FIRMLY ON STANDARD SQUARE TUBE OR U-CHANNEL POSTS BY MEANS OF (2)⅝" DIAMETER HEX HEAD BOLTS.

STOP SIGN: R1-1 MUTCD - (HIGH INTENSITY)

LOCATION: ONE PER INTERSECTION AS INDICATED ON THE PLANS.

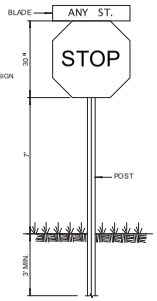
POLICY:
9" BLADES WITH 6" UPPER CASE WITH 4.5" LOWERCASE LETTERS FOR TWO LANE ROADS WITH A SPEED LIMIT UNDER 45 MPH
12" BLADES WITH 9" UPPERCASE WITH 6.75" LOWERCASE LETTERS FOR:
-THOROUGHFARE ROADS FOUR LANES OR WIDER.
-TWO LANE ROADS WITH A POSTED SPEED LIMIT OF 45 MPH OR MORE.
ONLY ONE BLADE WILL BE USED INDICATING THE SIDE STREET NAME.



UNCURBED SECTION

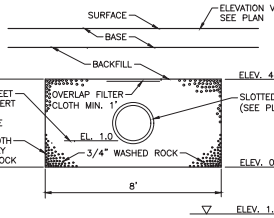
TYPICAL STOP SIGN PLACEMENT

STREET NAME SIGN (SNS) or (D-3)



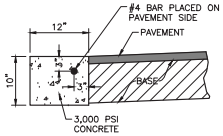
STREET NAME SIGN WITH STOP SIGN

NOT TO SCALE



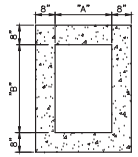
BAYBERRY DRIVE EXFILTRATION TRENCH

NOT TO SCALE

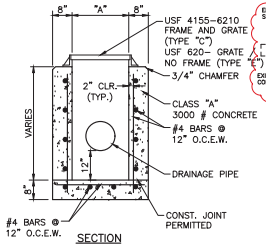


12" FLUSH HEADER CURB

NOT TO SCALE



PLAN

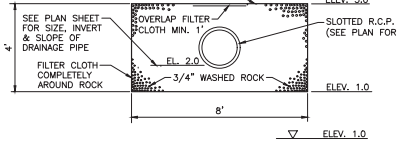


SECTION

TYPE INLET	DIMENSIONS	
	"A"	"B"
C	2'-0"	3'-1"
E	3'-0"	4'-6"

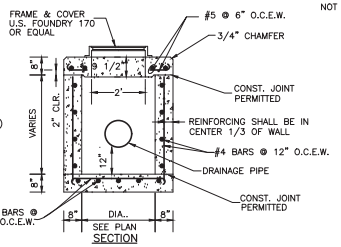
STANDARD TYPE "C"&"E" INLET

NOT TO SCALE



GARAGE EXFILTRATION TRENCH

NOT TO SCALE

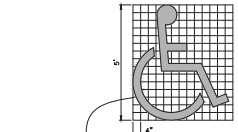


STANDARD MANHOLE

NOT TO SCALE

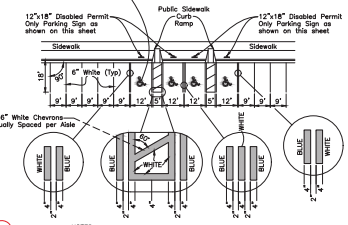
INLET AND MANHOLE NOTES

1. ALL EXPOSED CORNERS AND EDGES SHALL BE CHAMFERED 3/4".
2. INLETS AND MANHOLES SHALL BE PRECAST CLASS "A" 3000 P.S.I.. CONCRETE.
3. FRAMES AND GRATES SHALL BE CAST IRON AND IN ACCORDANCE WITH F.D.O.T.. SPECIFICATIONS.
4. REINFORCING STEEL SHALL CONFORM TO A.S.T.M. 615 GRADE 40.
5. INLET GRATES SHALL BE U.S. FOUNDRY DWG. OR EQUAL. (USF 4155-6210 TYPE "C", USF 6290 TYPE "E") TYPE "E" GRATE CAST IN TWO SECTIONS.
6. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER.



Pavement symbol in accessible parking spaces shall be 5' high and white in color.

UNIVERSAL SYMBOL OF ACCESSIBILITY

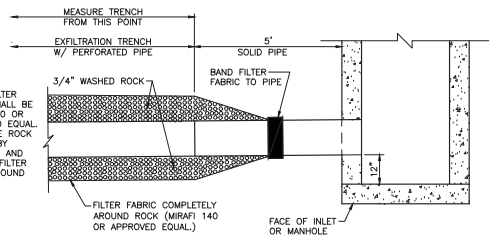


NOTES:
1. Dimensions are to the centerline of markings.
2. Criteria for pavement markings only, not public sidewalk curb ramp locations. For ramp locations refer to plans.
3. Blue pavement markings shall be tinted to match shade 15180 of Federal Standards 595a.

PAVEMENT MARKING FOR PUBLIC SIDEWALK CURB RAMPS

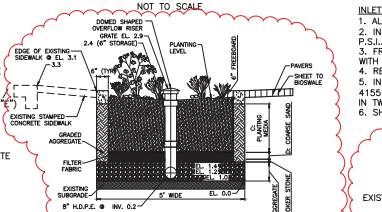
TYPICAL PARKING SPACES

NOT TO SCALE



FILTER FABRIC END CLOSURE DETAIL

NOT TO SCALE

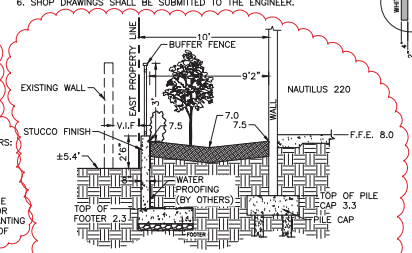


PLANTING MEDIA

1. PLANTING MEDIA MIX SHALL HAVE THE FOLLOWING PARAMETERS:

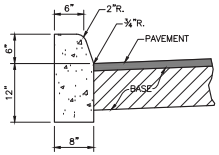
   CLEAN SAND: 65%
   LOAMY TOPSOIL: 20%
   HUMIC COMPOST: 15%

2. PLANTING MEDIA SHALL BE PLACED UNCOMPACTED WITHIN THE THE PLANTING PIT, WATERED IN AND ALLOWED TO SETTLE FOR THREE DAYS. AFTER SETTLING, AMEND WITH ADDITIONAL PLANTING MEDIA TO BRING THE TOP OF SOIL WITHIN 6" OF THE TOP OF CURB.



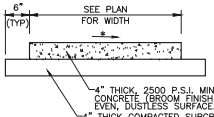
EAST BUFFER WALL SECTION

NOTES: *DETAILS PROVIDED FOR MATERIAL SPECIFICATION, LOCATION AND GENERAL OVERALL DIMENSIONS. REFER TO ENGINEERING PLANS FOR STRUCTURAL AND DIMENSIONAL REQUIREMENTS FOR CONSTRUCTION



TYPE "D" CURB

NOT TO SCALE



*2.0% MAX. CROSS-SLOPE EXCEPT IN F.D.O.T. R/W. F.D.O.T. R/W HAS A MAX CROSS-SLOPE OF 1.5%

TYPICAL SIDEWALK DETAIL

NOT TO SCALE

ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ERIK R. COOPER, P.E. ON 12/23/2024.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

2.) REVISIONS PER F.D.O.T. COMMENTS, 12/30/20 R.W.
1.) REVISIONS PER F.D.O.T. COMMENTS, 10/30/20 B.L.

REVISIONS

SIMMONS & WHITE
3191 Metrocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3453 | 561.478.2848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

JOB NO. 19-038

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
PAVING AND DRAINAGE DETAILS

SHEET 8 OF 30

TOWN OF LAKE PARK BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

T:\AUTOCAD_FILES\2019\19-038\CONSTRUCTION\19038S08-10_PDD.dwg 12/23/2024 1:44 PM Connor O'Rourke

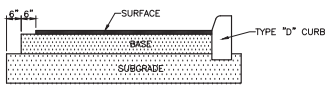
GENERAL NOTES:

1. NOTIFY ENGINEER OF IN-FIELD CONFLICTS OR DESIGN DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
2. EXISTING WATER, SEWER AND DRAINAGE SYSTEMS ARE REPRESENTED AS DASHED LINES AND SHALL BE VERIFIED BY CONTRACTOR.
3. CONTRACTOR SHALL PROTECT ALL UTILITIES AND PUBLIC IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED DURING CONSTRUCTION AND SHALL REPAIR SAID DAMAGES AT HIS EXPENSE. CONTRACTOR TO RESTORE ALL AREAS DISTURBED DURING CONSTRUCTION TO ORIGINAL OR BETTER CONDITION.
4. SUPPORT OR THE RELOCATION OF EXISTING STREET LIGHT POLES, POWER OR TELEPHONE POLES, EXISTING UTILITIES, IRRIGATION SYSTEMS, SIDEWALKS, WALLS, ETC. NECESSARY FOR COMPLETION OF THIS WORK ARE THE RESPONSIBILITY OF THE CONTRACTOR AT HIS EXPENSE.
5. INFORMATION SHOWN ON THESE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT BE GUARANTEED, HOWEVER, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER AND DEPTH OF ANY EXISTING UTILITIES. ALL "AS-BUILT" INFORMATION INCLUDING LOCATION AND ELEVATION OF UTILITY STUB-OUTS TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION OR ORDERING OF STRUCTURES. NOTIFY ENGINEER OF DISCREPANCIES/CONFLICTS.
6. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS CONCERNING SIDEWALKS, RAMPS, STRIPING AND SIGNAGE, LIGHTING AND ELECTRICAL CONDUIT, ETC.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND NOTIFY THE ENGINEER OF ANY DEVIATIONS PRIOR TO COMMENCING CONSTRUCTION.
8. SIDEWALKS TO BE FLUSH WITH YARD AREAS UNLESS OTHERWISE NOTED.
9. ALL DRAINAGE CONSTRUCTION SHALL CONFORM TO FLORIDA DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND TOWN OF LAKE PARK REQUIREMENTS.
10. GRADE ALL PAVEMENT AREAS TO CATCH BASINS. CONTRACTOR TO NOTIFY ENGINEER IF IN-FIELD CONDITIONS CHANGE, ARCHITECTURAL DETAILS WILL CREATE CONFLICTS WITH DRAINAGE DESIGN SHOWN, POTENTIAL EROSION PROBLEMS ARISE OR STANDING WATER OCCURS.
11. ALL ELEVATIONS SHOWN HEREON REFER TO N.A.V.D. 1929 TOPOGRAPHIC AND BOUNDARY SURVEY PROVIDED BY BASELINE LAND SURVEY (561) 417-0700.
12. ALL DRAINAGE PIPE SHOWN AS R.C.P. SHALL BE REINFORCED CONCRETE PIPE CLASS III, WALL "B" AND CONFORMING TO FLORIDA DEPT. OF TRANSPORTATION SPECIFICATIONS.
13. CONTRACTOR SHALL PROVIDE ADEQUATE EQUIPMENT FOR THE REMOVAL OF STORM, SURFACE AND/OR SUBSURFACE WATER WHICH MAY ACCUMULATE IN THE EXCAVATION AREAS SO THAT IT WILL BE SUITABLY DRY FOR WORK REQUIRED.
14. NO OFF-SITE DISCHARGE FROM DEWATERING OPERATIONS SHALL BE PERMITTED UNLESS THE CONTRACTOR SECURES WRITTEN PERMISSION FROM THE GOVERNING AUTHORITIES.
15. ALL SUB-BASE UNDER ROADWAYS, PARKING LOTS, CURBS, ETC. SHALL BE COMPACTED TO NOT LESS THAN 98% OF MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.T.O. T-180 PROCTOR.
16. WHERE ENCOUNTERED (OR SPECIFIED IN THE GEOTECHNICAL REPORT), MUCK/UNSUITABLE MATERIALS SHALL BE COMPLETELY REMOVED FROM PROPOSED PAVING AND BUILDING AREAS 10 FEET BEYOND THE EDGE OF PAVEMENT/BUILDING PAD EACH SIDE.
17. CONTRACTOR TO PROVIDE TEST REPORTS FROM AN INDEPENDENT LABORATORY FOR PROCTORS AND DENSITIES ON BASE, SUBGRADE AND PIPE BACKFILL.
18. CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE PAVING AND DRAINAGE, WATER AND SEWER CONSTRUCTION RECORD INFORMATION TO THE ENGINEER.
19. CONTRACTOR SHALL ARRANGE FOR THE ENGINEER TO OBSERVE:
    A. STORM SEWER AFTER GROUTING AND WHEN BACKFILL IS COMPLETED TO THE MIDPOINT OF THE PIPE.
    B. STRINGLINING OF SUBGRADE.
    C. STRINGLINING/BOARDING OF BASE.
20. THE CONTRACTOR SHALL FILL AND FINE GRADE ALL PLANTING AREAS, LEAVING THE FINISHED GRADE SMOOTH AND READY TO RECEIVE SOD OR OTHER PLANTING MATERIAL. WHERE SOD IS DESIRED, THE FINISHED GRADES SHALL BE TWO (2) INCHES LOWER TO ALLOW FOR THICKNESS OF THE GRASS. SPECIAL ATTENTION SHALL BE GIVEN ALONG EDGE OF PAVEMENT AND SIDEWALKS SO AS NOT TO TRAP WATER.
21. ANY SHELLROCK OR LIMEROCK PAVING BASE INSTALLED WITHIN PLANTING AREAS SHALL BE REMOVED IN ITS ENTIRETY PRIOR TO PLACING PLANTER AREA FILL.
22. ALL SWALE, RIGHT OF WAY AREAS AND YARD AREAS SHALL BE GRADED AND SEEDED OR SODDED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS. NO AREAS SHALL BE LEFT BARREN OR SUBJECT TO EROSION.
23. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADHERE TO ALL O.S.H.A. RULES AND FLORIDA LAWS RELATED TO TRENCH SAFETY.
24. CONTRACTOR SHALL ENSURE NO SEDIMENT OR DEBRIS LEAVES THE SITE DURING CONSTRUCTION IN ACCORDANCE WITH N.P.D.E.S. REQUIREMENTS (SILT FENCE, HAY BALES OR SOD APRONS AT INLETS, WASH ROCK EXIT, ETC. MAY BE REQUIRED TO MEET SAID REQUIREMENTS). CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION, IMPLEMENTATION AND CERTIFICATION OF ALL N.P.D.E.S. POLLUTION PREVENTION RELATED MEASURES (i.e. FILING OF AN N.O.I. POLLUTION PREVENTION PLAN MONITORING REPORTS, ETC.)
25. CONTRACTOR SHALL REFER TO LANDSCAPE PLANS FOR PLANTING AND BERMING REQUIREMENTS AND NOTIFY ENGINEER OF ANY CONFLICTS WITH THIS PLAN.
26. CONTRACTOR SHALL CONTACT PALM BEACH COUNTY TRAFFIC OPERATIONS AT (561) 233-3900) 48 HOURS PRIOR TO CONSTRUCTION, IF ANY WORK IS BEING DONE WITHIN 10 FEET OF A SIGNALIZED INTERSECTION.
27. ANY DAMAGE TO PBC-TRAFFIC I.T.S. FACILITIES CAUSED BY CONSTRUCTION OF THIS PROJECT MUST BE REPAIRED OR REPLACED TO ORIGINAL OR BETTER CONDITION BY THE PERMITEE AT NO COST TO PALM BEACH COUNTY.
28. PALM BEACH COUNTY (PBC) RESERVES THE RIGHT TO DETERMINE IF DAMAGED PBC FACILITIES WILL BE REPAIRED OR REPLACED.

DENSITY TESTING REQUIREMENTS:

A. PIPE TRENCHES SHALL BE TESTED AT RANDOMLY SELECTED LOCATIONS ALONG THE LENGTH OF EACH PIPE RUN WITHIN EACH 300' INTERVAL (MAXIMUM) AND BETWEEN EACH SET OF TWO STRUCTURES IF A PIPE RUN SEPARATING THE TWO IS LESS THAN 300' IN LENGTH.
B. ALL PIPE AND STRUCTURE TRENCHES SHALL BE BACKFILLED USING A MAX. OF 12" LIFTS. ALL BACKFILL MATERIAL SHALL BE CLEAN, DRY STRUCTURAL FILL, WITH NO DELETERIOUS OR ORGANIC MATERIAL PRESENT.
C. AT LEAST ONE TEST SHALL BE PERFORMED FOR EVERY 12" OF DEPTH, STARTING AT THE SPRINGLINE OF THE PIPE, COVERING THE 12" LAYER BELOW THE SPRINGLINE OF THE PIPE.
D. TESTS SHALL BE PERFORMED AT EVERY STRUCTURE BEGINNING AT THE BASE OF THE STRUCTURE (COVERING THE 12" BELOW THE BASE OF THE STRUCTURE) WITH ONE TEST FOR EVERY 12" LIFT. TESTS SHALL ALTERNATE FROM CORNER TO CORNER OR FROM SIDE TO SIDE AROUND THE STRUCTURE WITH EACH 12" LIFT.
E. ALL DENSITY TESTS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER, LICENSED IN THE STATE OF FLORIDA.

NOTE: ALL TESTS AND LOCATIONS ARE SUBJECT TO REVIEW BY REPRESENTATIVES OF OUR OFFICE AND ADDITIONAL TESTS MAY BE REQUIRED BASED ON FIELD OBSERVATIONS OF CONSTRUCTION TECHNIQUES OR MATERIALS USED ON SITE.



SURFACE: 1½" A.C.S.C. S-3

BASE: 8" LIMEROCK COMPACTED TO 98% PER A.A.S.H.T.O. T-180

SUBGRADE: 12" COMPACTED GRANULAR MATERIAL COMPACTED TO 98% PER A.A.S.H.T.O. T-180

PAVEMENT SPECIFICATION
NOT TO SCALE

1

ON-SITE PAVEMENT SPECIFICATIONS:

CONCRETE PAVEMENT:
SURFACE – 5" THICK CONCRETE, 4,000 PSI MIN.

SUBGRADE – 12" COMPACTED SUBGRADE, COMPACT TO 98% PER A.A.S.H.T.O. T-180 (LBR 40)

OFF-SITE PAVEMENT SPECIFICATIONS:

CONCRETE PAVEMENT:
SURFACE – 6" THICK CONCRETE, 4,000 PSI MIN.

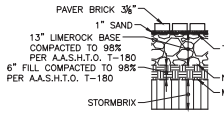
SUBGRADE – 12" STABILIZED SUBGRADE, COMPACT TO 98% PER A.A.S.H.T.O. T-180 (LBR 40)

F.D.O.T. R/W PAVEMENT SPECIFICATIONS:

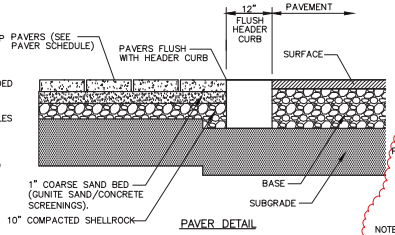
ALONG US #1 (SR NO.5):
SURFACE – 1.5" FRICTION COURSE FC-9.5 (160 LB/SY AVG.) (RUBBER) AND 2" STRUCTURAL COURSE TYPE SP (200 LB/SY AVG., TRAFFIC LEVEL B)

BASE – OPTIONAL GROUP 13

SUBGRADE – 12" STABILIZED SUBGRADE, COMPACT TO 98% PER A.A.S.H.T.O. T-180 (LBR 40)



PAVER BRICK STORM CHAMBER CROSS SECTION
NOT TO SCALE

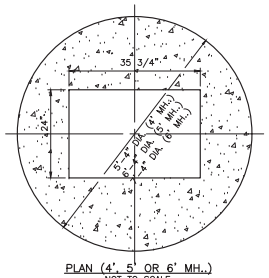


PAVER DETAIL

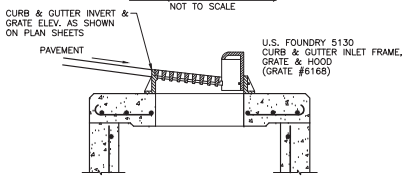
INTERLOCKING CONCRETE PAVER NOTES:

1. THE PAVERS TO BE PLACED ON A 1" LAYER OF COURSE SAND (GUNITE SAND/ CONCRETE SCREENINGS). THIS SAND MUST CONFORM TO A.S.T.M. C 33; MASON SAND IS UNACCEPTABLE.
2. INSTALL PAVER UNITS WITH JOINTS APPROXIMATELY 1/16 INCHES.
3. WHERE REQUIRED, CUT PAVING STONES WITH AN APPROVED CUTTER TO FIT ACCURATELY, NEATLY AND WITHOUT DAMAGED EDGES.
4. FILL VOIDS IN JOINTS BY SWEEPING IN DRY MASONRY SAND.
5. TAMP PAVING STONES WITH MECHANICAL VIBRATOR UNIFORMLY LEVEL, TRUE TO GRADE AND FREE OF MOVEMENT.
6. HANDICAP PARKING SPACES AND AISLES TO RECEIVE FLAT/SMOOTH PAVER (NOT TUMBLED EDGE) PROVIDING A SMOOTH A.D.A. SURFACE. STRIPING TO BE REFLECTIVE BLUE BRICK PAVERS.
7. ALL PARKING LOT STRIPING AND STOP BARS TO BE WITH REFLECTIVE WHITE BRICK PAVERS.
8. VEHICLE USE AREAS TO HAVE 3-1/8" PAVERS AND PEDESTRIAN AREAS TO HAVE 2-3/8" PAVERS.

TYPICAL INTERLOCKING CONCRETE PAVERS 1
NOT TO SCALE

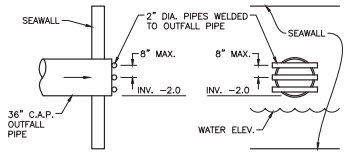


PLAN (4', 5' OR 6' MH.)
NOT TO SCALE

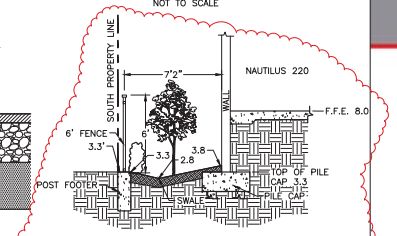


SECTION

CURB & GUTTER INLET DETAILS
NOT TO SCALE

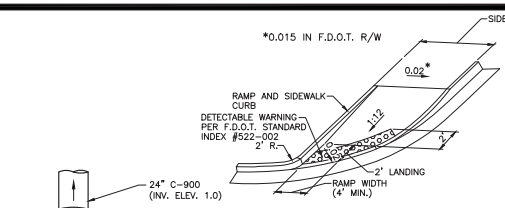


MANATEE EXCLUSION DEVICE
NOT TO SCALE

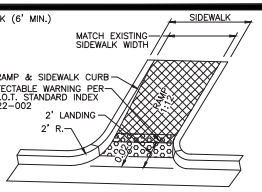


SOUTH BUFFER WALL SECTION

NOTES: *DETAILS PROVIDED FOR MATERIAL SPECIFICATION, LOCATION AND GENERAL OVERALL DIMENSIONS. REFER TO ENGINEERING PLANS FOR STRUCTURAL AND DIMENSIONAL REQUIREMENTS FOR CONSTRUCTION



HANDICAP RAMP DETAIL (CR-G)
NOT TO SCALE



HANDICAP RAMP DETAIL (CR-E)
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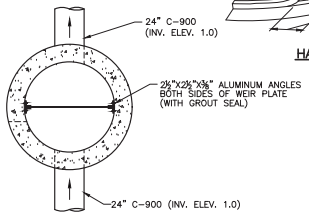
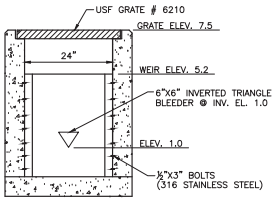
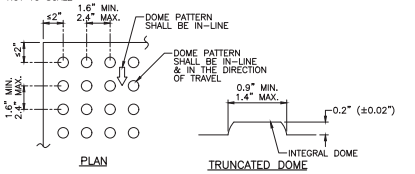


PLAN



CONTROL STRUCTURE 4' DIAMETER MANHOLE
NOT TO SCALE



PLAN

TRUNCATED DOME

NOTE: ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" IN PUBLIC R/W, 36" ON-SITE FROM THE BACK OF CURB. CONTRACTOR SHALL VERIFY W/ INSTALLATION. THE DETECTABLE WARNING SURFACE SHALL HAVE A CONTRASTING COLOR (YELLOW OR APPROVED ALTERNATE)

CURB RAMP DETECTABLE WARNING DETAIL
NOT TO SCALE

NOTES:
1. THESE ARE THE MINIMUM GENERAL REQUIREMENTS FOR PEDESTRIAN RAMPS. SEE F.D.O.T. INDEX 304 FOR ADDITIONAL SIDEWALK CURB RAMP DETAILS.
2. DETECTABLE WARNING SURFACE REQUIRED ON ALL H/C RAMPS. DETECTABLE WARNING SHALL BE CONTRASTING IN COLOR WITH TRUNCATED DOMES AND SHALL COMPLY WITH F.D.O.T. SPECS.
3. THIS DETAIL MAY NOT ADDRESS ALL IN-FIELD CONDITIONS AND SCENARIOS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF CONFLICTS AND TO INSURE THAT ALL CONSTRUCTION IS A.D.A. COMPLIANT AND IN CONFORMANCE WITH F.B.C. AND LOCAL GOVERNING AGENCY REQUIREMENTS.

TYPICAL HANDICAP RAMP DETAILS
NOT TO SCALE

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REVISIONS
4.) UPDATED CONTROL STRUCTURE DETAIL, 04/08/24 B.L.
1 1ST BLDG. DEPT. REVIEW COMMENTS, 8/31/22 C.O.
3.) ADDED TIDEFLEX DETAIL, 8/25/22 C.O.
2.) REVISIONS PER F.D.O.T. COMMENTS, 12/30/20 R.W.
1.) REVISIONS PER F.D.O.T. COMMENTS, 10/30/20 B.L.

SIMMONS & WHITE
3191 Metrocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 34513 | 561.478.2848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
PAVING AND DRAINAGE DETAILS

JOB NO. 19-038

SHEET 9 OF 30

TOWN OF LAKE PARK BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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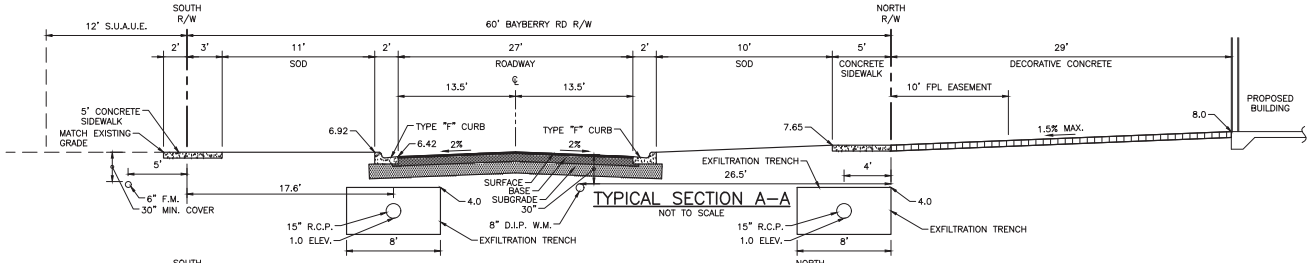

TYPICAL SECTION A–A
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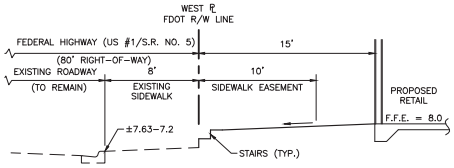

TYPICAL SECTION G–G
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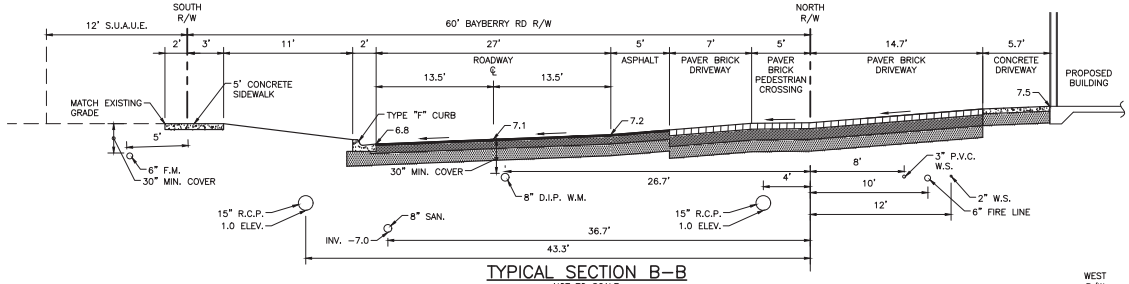

TYPICAL SECTION B–B
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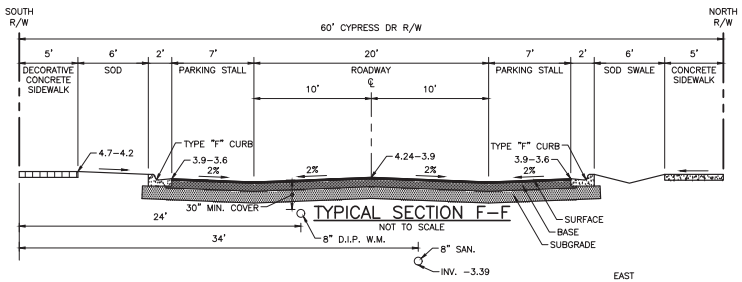

TYPICAL SECTION F–F
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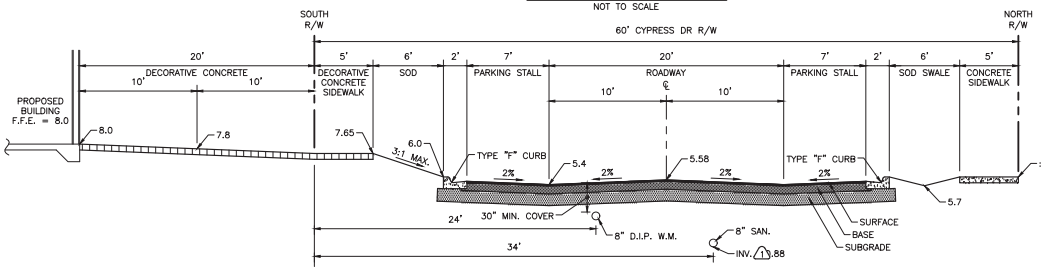

TYPICAL SECTION C–C
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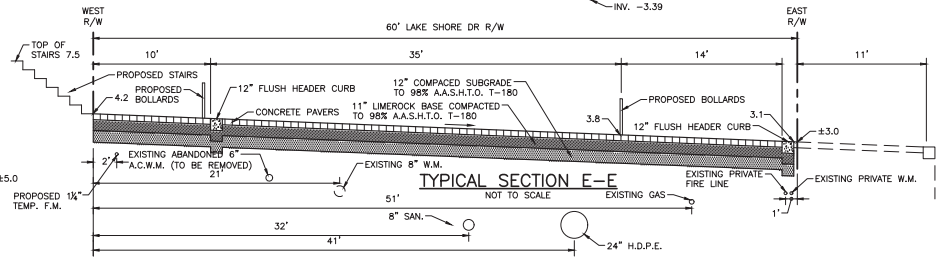

TYPICAL SECTION E–E
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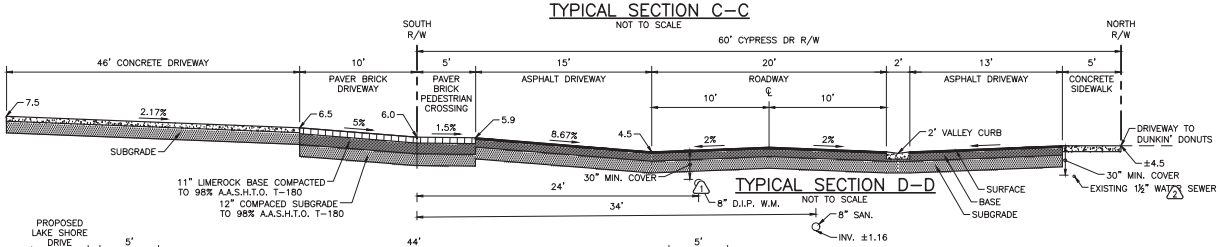

TYPICAL SECTION D–D
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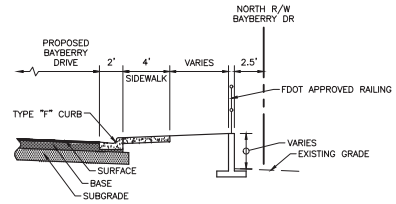

TYPICAL SECTION J–J
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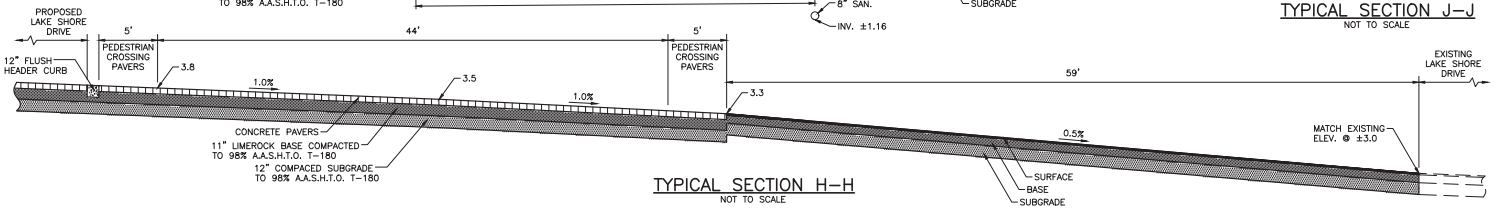

TYPICAL SECTION H–H
NOT TO SCALE

ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

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3.) REVISED TYPICAL SECTIONS, 11/11/24 C.O.
2 PERMIT REVISIONS 2, 06/02/23 C.O.
REVISED SECTION D–D, 04/19/23 C.O.
1 1ST BLDG. DEPT. REVIEW COMMENTS, 8/31/22 C.O.
0.) ADDED TYPICAL SECTION H–H, 08/04/22

REVISIONS

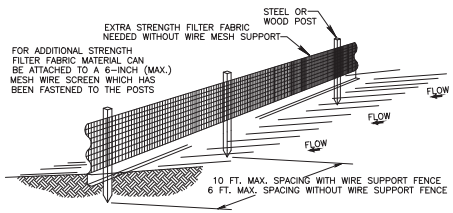
SIMMONS & WHITE
3585 Motocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3453 | 561.478.2848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
PAVING AND DRAINAGE DETAILS

JOB NO. 19–038
SHEET 10 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025



SILT FENCE INSTALLATION DETAIL

NOT TO SCALE.

NOTES:

1.) THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (90 CM).
2.) THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
3.) POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET (1.8 M).
4.) A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10 CM) WIDE AND 4 INCHES (10 CM) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5.) WHEN STANDARD STRENGTH FILTER FABRIC IS USED. A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 MM) LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 CM) AND SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
6.) THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 CM) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
7.) THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.

POLLUTION PREVENTION NOTES:

1.) THIS PLAN SHOULD BE USED AS A GUIDE, A COMPLETE STORMWATER POLLUTION PLAN SHOULD BE DEVELOPED TO MEET OR EXCEED F.D.E.P. REQUIREMENTS.

2.) CONTRACTOR IS RESPONSIBLE TO ENSURE THAT NO DIRT BE TRACKED OFF-SITE OR LEAVES THE SITE BY WIND, RUNOFF, OR OTHER MEANS.

3.) CONTRACTOR SHALL BE RESPONSIBLE FOR ALL N.P.D.E.S. REQUIREMENTS INCLUDING FILING OF N.O.I., MONITORING REPORTS AND N.O.T.

4.) POLLUTION PREVENTION MEASURES SHALL CONSIST OF, BUT NOT LIMITED TO, THE FOLLOWING:

A. CONSTRUCT WASHROCK PAD AT ALL POINTS EGRESS FOR WASHDOWN OF TRUCK TIRES.

B. CONSTRUCT EROSION CONTROL FENCE AND/OR TURBIDITY SCREENS ALONG PROPERTY LINES AS NEEDED.

C. NO AREA SHALL BE LEFT BARREN OR SUBJECT TO EROSION DURING CONSTRUCTION. SEEDING AND MULCHING IS REQUIRED FOR ANY AREAS ANTICIPATED TO BE BARREN DURING CONSTRUCTION FOR MORE THAN 15 DAYS.

D. TURBIDITY BARRIERS TO BE UTILIZED AT PROJECT OUTFALL.

E. OTHER MEASURES AS DIRECTED BY THE ENGINEER OR PALM BEACH COUNTY.

5.) IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL POLLUTION PREVENTION REQUIREMENTS. FOR AFFECTED AREAS GREATER THAN 1 ACRE, COMPLIANCE SHALL INCLUDE (BUT IS NOT LIMITED TO) THE FOLLOWING:

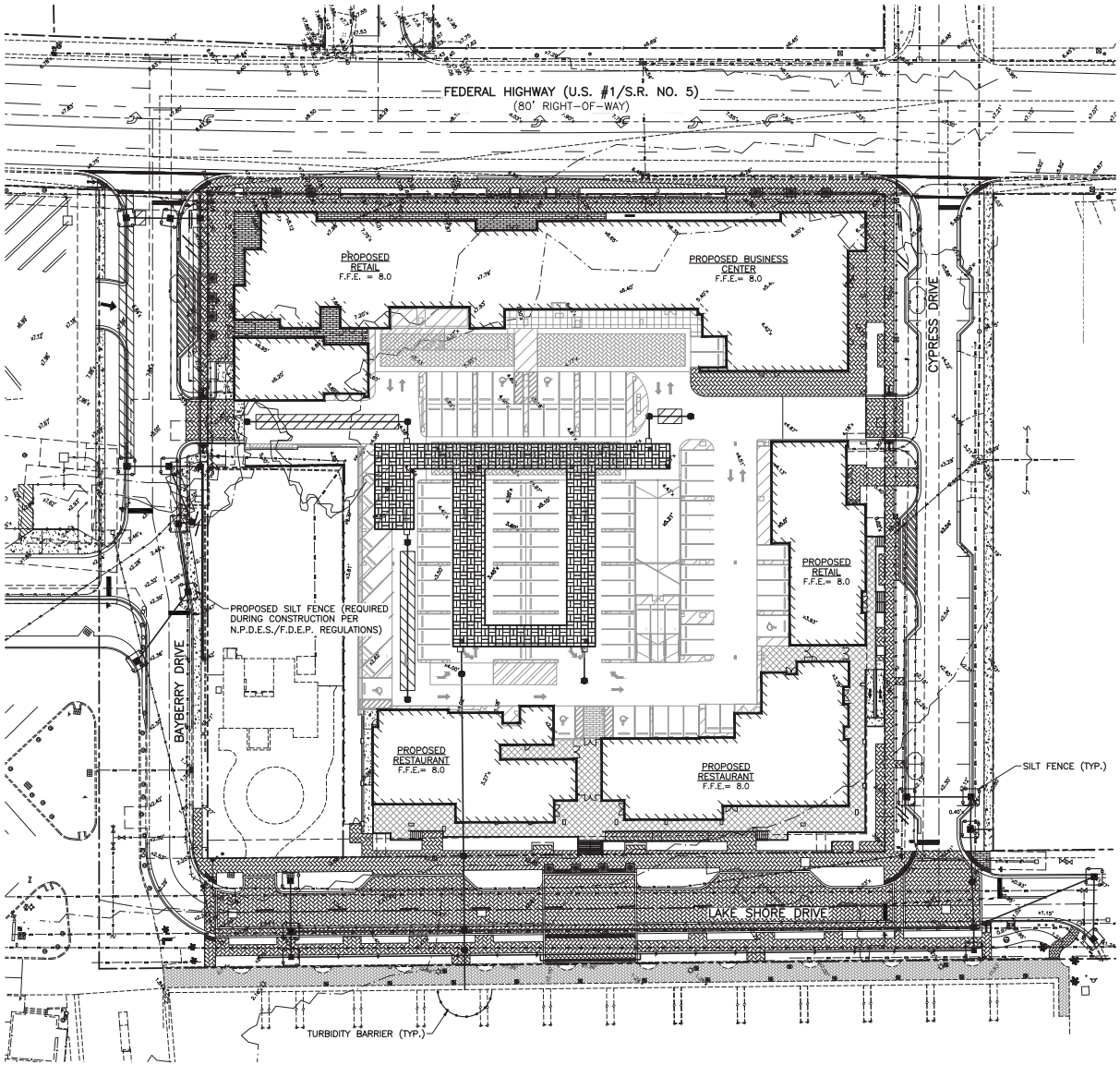
A. PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) IN ACCORDANCE WITH THE D.E.P. "GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES" (D.E.P. DOCUMENT NO. 62-621.300(4)(A))

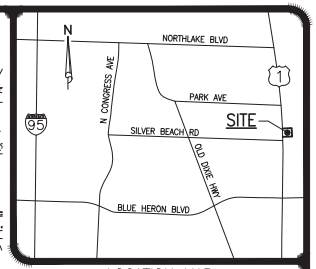
B. SUBMITTAL OF THE NOTICE OF INTENT (N.O.I.) TO THE D.E.P.

C. MAINTENANCE AND INSPECTION OF THE ELEMENTS OF THE S.W.P.P.P.

D. MAINTENANCE OF RECORDS (INSPECTION REPORTS, N.O.I, S.W.P.P.P., ETC.)

E. SUBMITTAL OF THE NOTICE OF TERMINATION TO THE D.E.P. AT THE CONCLUSION OF THE PROJECT





LOCATION MAP

NOT TO SCALE

N

30 15 0 30 60

SCALE IN FEET
1"=30'

LEGEND

SILT FENCE

48 HOURS BEFORE DIGGING
BROWARD ■ PALM BEACH ■ INDIAN RIVER
ST. LUCIE ■ MARTIN COUNTIES
CALL TOLL FREE
1-800-432-4770
SUNSHINE STATE 1-CALL
UNDERGROUND UTILITIES
NOTIFICATION CENTER

ERIK R. COOPER
LICENSE
No 56934
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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2.) REVISIONS PER F.D.O.T. COMMENTS, 12/30/20 R.W.
1.) REVISIONS PER F.D.O.T. COMMENTS, 10/30/20 B.L.

REVISIONS

SIMMONS & WHITE
3581 Metrocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3632 | 561.478.7848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
POLLUTION PREVENTION PLAN

JOB NO.	SHEET
19-038	11 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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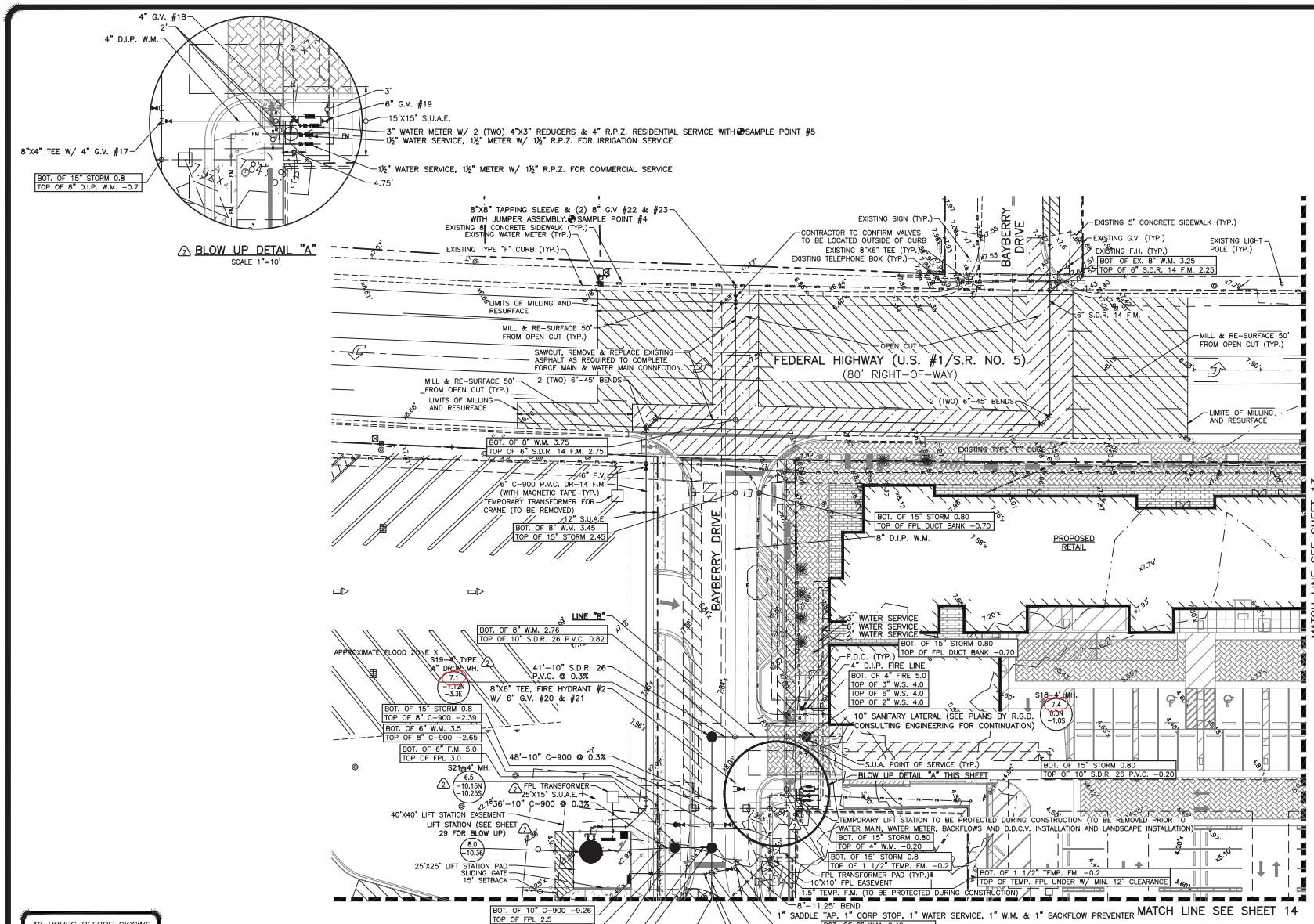

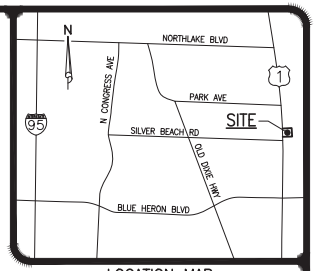

LOCATION MAP
NOT TO SCALE

N

20 10 0 20 40
SCALE IN FEET
1"=20'

LEGEND

S1-4' MH.	MANHOLE NUMBER AND TYPE
19.5 / 16.0	MANHOLE TOP ELEVATION / MANHOLE INVERT ELEVATION
	SINGLE SEWER SERVICE W/ CLEAN-OUT
	DOUBLE SEWER SERVICE W/ CLEAN-OUT
	SANITARY SEWER LINE, MANHOLE AND DIRECTION OF FLOW
	FIRE HYDRANT W/ GATE VALVE
	WATER SERVICE, WATER METER & R.P.Z.
	WATER MAIN & GATE VALVE
	GATE VALVE & D.D.C.V. ASSEMBLY
	SAWCUT, REMOVE, & REPLACE EXISTING CONCRETE, ASPHALT, CURB, ETC.
	MILL & RESURFACE

NOTES:

1.) ON-SITE SEWER LATERALS ARE PRIVATELY OWNED AND MAINTAINED.

2.) CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL EXISTING UTILITY LOCATES, SUPPORT, RELOCATIONS AND NOTIFICATIONS REQUIRED WITH ALL APPLICABLE UTILITY SERVICE PROVIDERS.

3.) CONTRACTOR TO VIDEO INSPECT EXISTING 6" SANITARY SERVICE TO ENSURE SERVICEABILITY.

48 HOURS BEFORE DIGGING
BROWARD • PALM BEACH • INDIAN RIVER
ST. LUCIE • MARTIN COUNTIES
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1-800-432-4770
SUNSHINE STATE 1 CALL
UNDERGROUND UTILITIES
NOTIFICATION CENTER

NOTE: ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 BASED ON A SURVEY PREPARED BY BASELINE LAND SURVEY LLC (561) 417-0700.

ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

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REVISIONS
5.) REVISED BAYBERRY DRIVE AND MH. RIM ELEV., 11/05/24 C.O.
2.) PERMIT REVISIONS 2, 06/02/23 C.O.
REVISED PER FPL & SEACOAST, 6/15/23 C.O.
REVISED PER S.U.A. COMMENTS, 11/09/22 C.O.
1.) REVISED L.S., SANITARY SEWER & US-1 OPEN CUTS PER S.U.A. COMMENTS, 8/25/22 C.O.

SIMMONS & WHITE
3585 Motocrossette Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 34513 | 561.478.7848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
WATER AND WASTEWATER PLAN

JOB NO. 19-038
SHEET 12 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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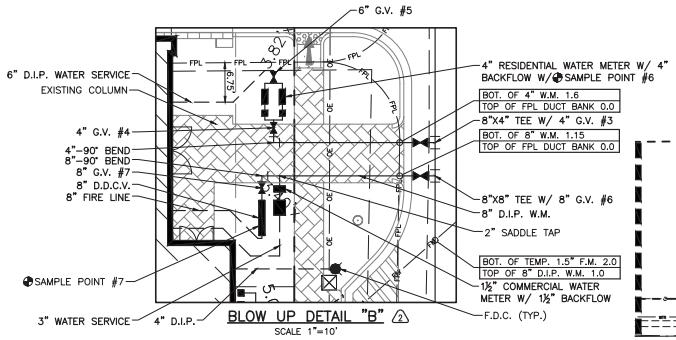
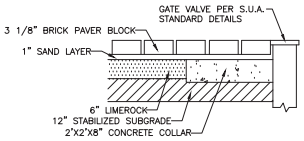


BLOW UP DETAIL "B" 2

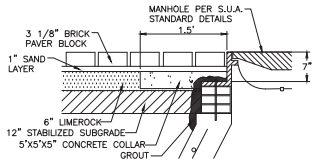
SCALE 1"=10'



PAVER BRICK AT VALVE DETAIL

NOT TO SCALE

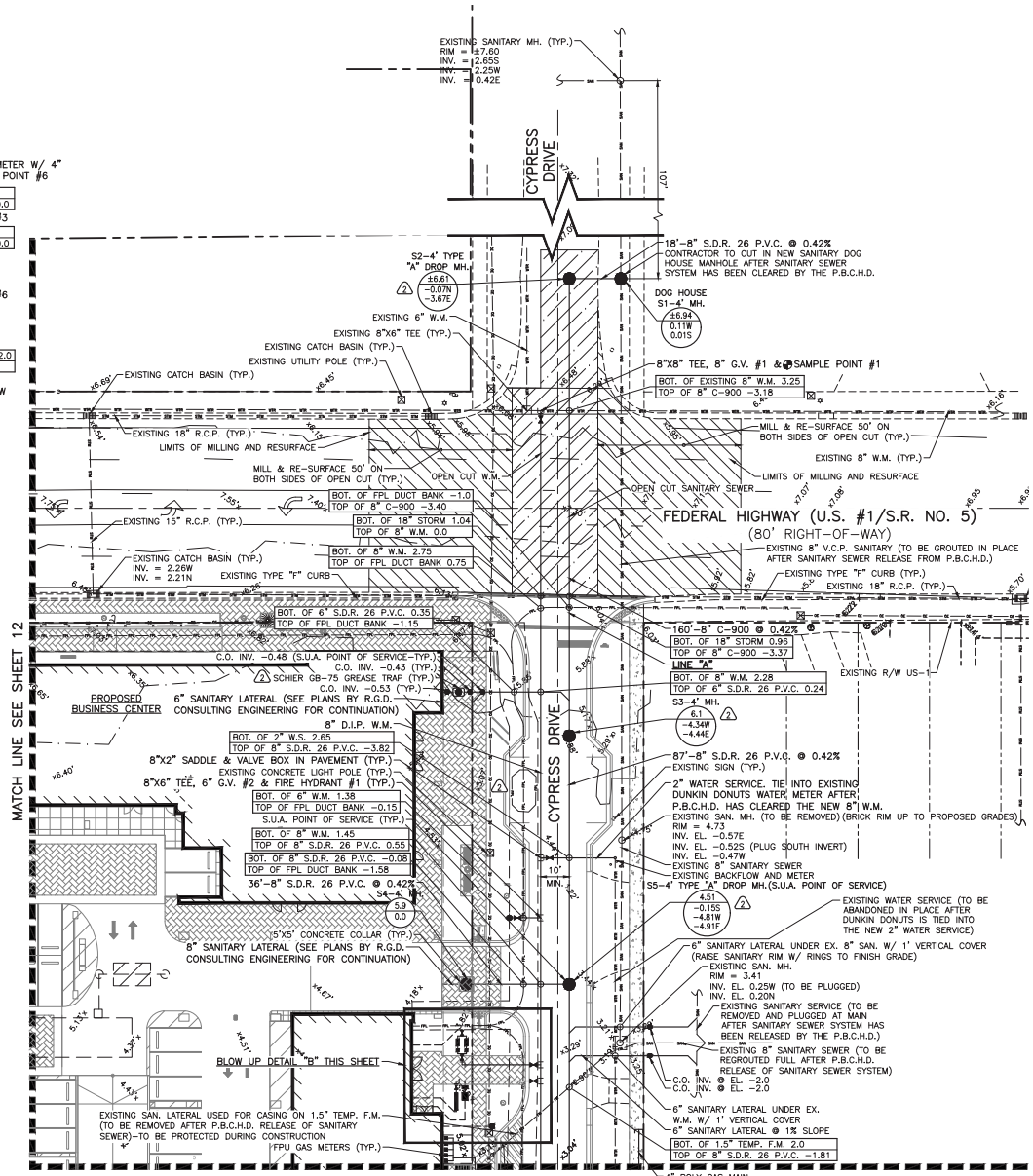
NOTE: SEE LANDSCAPE PLANS FOR PAVER BRICK SPECIFICATIONS

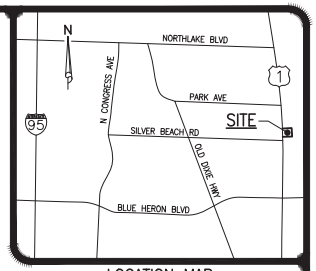


PAVER BRICK AT MANHOLE DETAIL

NOT TO SCALE

NOTE: SEE LANDSCAPE PLANS FOR PAVER BRICK SPECIFICATIONS





LOCATION MAP

NOT TO SCALE

N

20 10 0 20 40

SCALE IN FEET

1"=20'

LEGEND

S1-4' MH.	MANHOLE NUMBER AND TYPE
19.5 / 16.0	MANHOLE TOP ELEVATION / MANHOLE INVERT ELEVATION
	SINGLE SEWER SERVICE W/ CLEAN-OUT
	DOUBLE SEWER SERVICE W/ CLEAN-OUT
	SANITARY SEWER LINE, MANHOLE AND DIRECTION OF FLOW
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	WATER SERVICE, WATER METER & R.P.Z.
	WATER MAIN & GATE VALVE
	GATE VALVE & D.D.C.V. ASSEMBLY
	SAWCUT, REMOVE, & REPLACE EXISTING CONCRETE, ASPHALT, CURB, ETC.
	MILL & RESURFACE

NOTES:

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2.) CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL EXISTING UTILITY LOCATES, SUPPORT, RELOCATIONS AND NOTIFICATIONS REQUIRED WITH ALL APPLICABLE UTILITY SERVICE PROVIDERS.

3.) CONTRACTOR TO VIDEO INSPECT EXISTING 6" SANITARY SERVICE TO ENSURE SERVICEABILITY.

4.) CONTRACTOR TO LOCATE EXISTING LATERAL TO DUNKIN DONUTS AND VISTA MARINA CONDOS AND CONNECT LATERALS TO NEW SANITARY SYSTEM AFTER NEW SANITARY SYSTEM HAS BEEN RELEASED BY THE P.B.C.H.D.

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SUNSHINE STATE 1 CALL
UNDERGROUND UTILITIES
NOTIFICATION CENTER

NOTE: ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 BASED ON A SURVEY PREPARED BY BASELINE LAND SURVEY LLC (561) 417-0700.

ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

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REVISIONS

2.) PERMIT REVISIONS 2, 06/02/23 C.O.
REVISED PER S.U.A., 06/15/23 C.O.
ADDED FPL CROSSING CALLOUTS. REVISED WATER METER ALIGNMENT, 04/19/23 C.O.
REVISED PER S.U.A. COMMENTS, 11/09/22 C.O.
1.) REVISED SANITARY SEWER, US-1 OPEN CUT & ADDED M.H. S3 PER S.U.A. COMMENTS, 8/25/22 C.O.
3.) REVISED FPL DUCT BANK ELEVATIONS, 08/02/23 C.O.

SIMMONS & WHITE
3595 Motorcentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3453 | 561.478.7848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK
WATER AND WASTEWATER PLAN

JOB NO. 19-038

SHEET 13 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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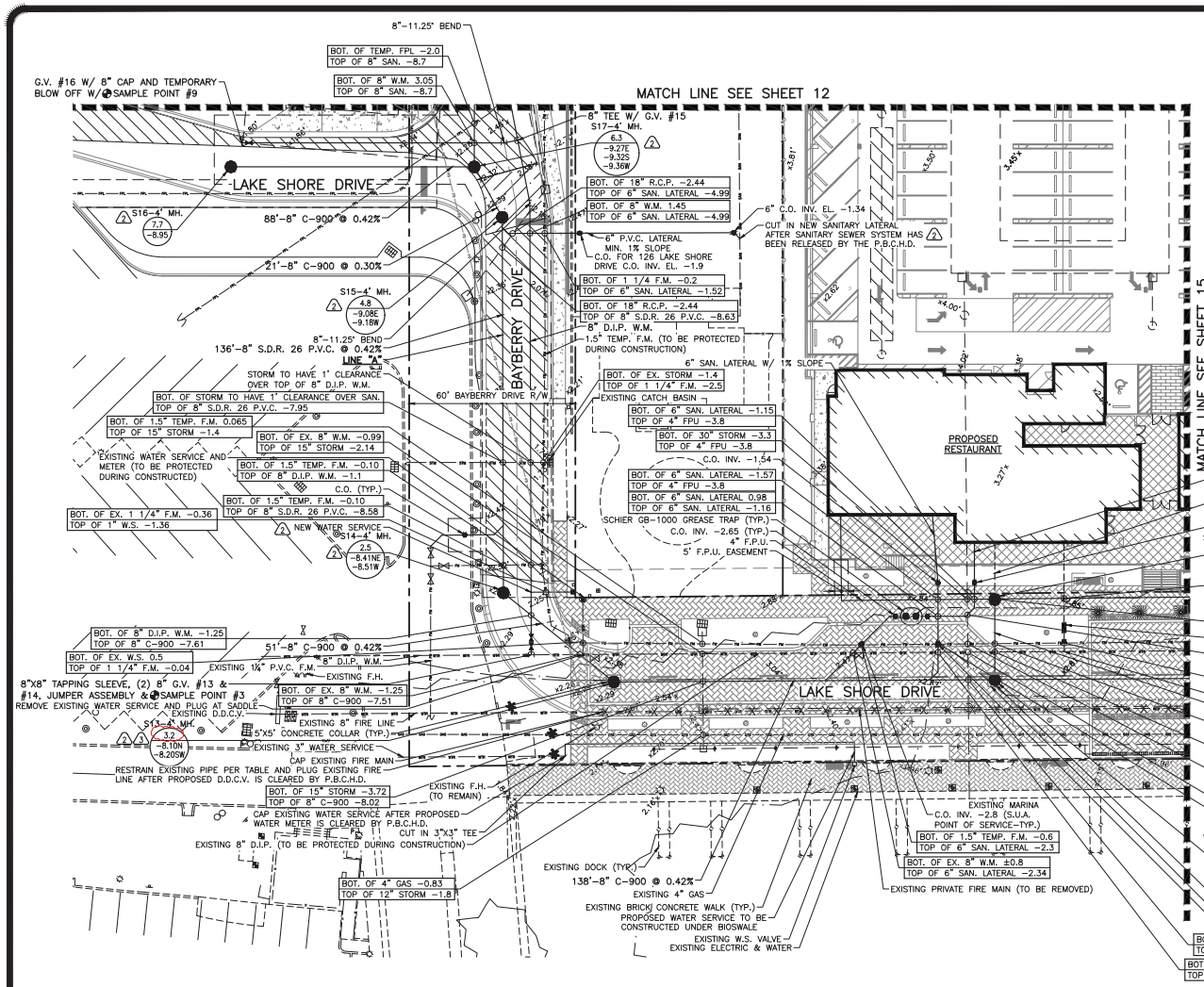
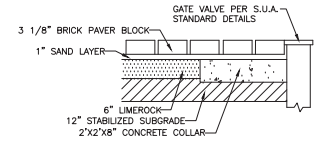
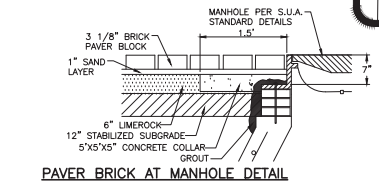




PAVER BRICK AT VALVE DETAIL

NOT TO SCALE

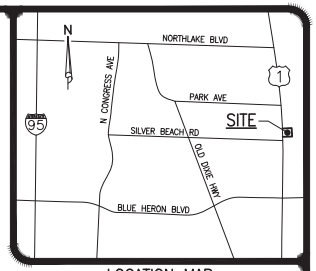
NOTE: SEE LANDSCAPE PLANS FOR PAVER BRICK SPECIFICATIONS



PAVER BRICK AT MANHOLE DETAIL

NOT TO SCALE

NOTE: SEE LANDSCAPE PLANS FOR PAVER BRICK SPECIFICATIONS



LOCATION MAP

NOT TO SCALE

N

20 10 0 20 40

SCALE IN FEET
1"=20'

LEGEND

S1-4' MH.	MANHOLE NUMBER AND TYPE
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	WATER MAIN & GATE VALVE
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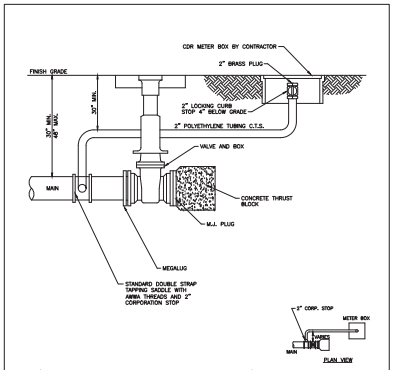
	SAWCUT, REMOVE, & REPLACE EXISTING CONCRETE, ASPHALT, CURB, ETC.
	MILL & RESURFACE



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. TRAFFIC BEARING METER BOXES WILL BE REQUIRED IN ALL PAVED AREAS, AREAS WHICH MAY BE PAVED IN THE FUTURE, OR RIGHT OF WAY.
2. TUBING SHALL BE CONTINUOUS FROM CORPORATION STOP TO CURB STOP, NO FITTINGS SHALL BE PERMITTED.
3. PREVIOUS JOINTS SHALL BE RESTRAINED IN ACCORDANCE WITH "PIPE RESTRAINT TABLE" DRAWING.

Temporary Blow Off with Restraint Block

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS

DATE APPROVED: MAY 24, 2023
DRAWING No. 23
Revision D-23

NOTES:

1.) ON-SITE SEWER LATERALS ARE PRIVATELY OWNED AND MAINTAINED.

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SUNSHINE STATE 1 CALL
UNDERGROUND UTILITIES
NOTIFICATION CENTER

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4.) REVISED PRIVATE FIRE LINE AND MH. S11 & S12, 11/05/24 C.O.
3 REVISED MH. RIM S13 TO 3.2, SHIFTED MH. S11 & S12, 10/14/24 C.O.

ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

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3.) ADDED F.P.U. EASEMENT & CROSSING INFO, 05/21/24 C.O.
2 PERMIT REVISIONS 2, 06/02/23 C.O.
REVISED PER S.U.A., 06/15/23 C.O.
REVISED PER S.U.A. COMMENTS, 11/09/22 C.O.
1.) REVISED SAN. SEWER, W.S. TO MARINA & FIRE LINE, TEMP. F.M. PER S.U.A. COMMENTS, 8/25/22 C.O.

REVISIONS

SIMMONS & WHITE
3595 Metrocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3653 | 561.478.7848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
WATER AND WASTEWATER PLAN

JOB NO. 19-038
SHEET 14 OF 30

TOWN OF LAKE PARK
BUILDING & DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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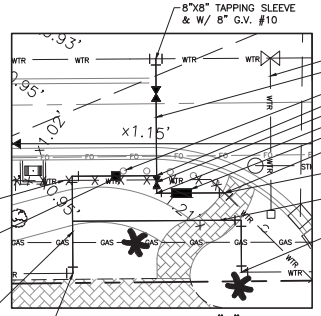
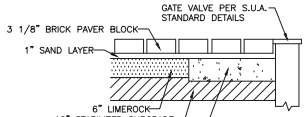


BLOW UP DETAIL "C"

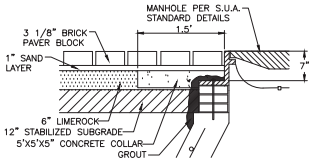
SCALE 1"=10' 2



PAVER BRICK AT VALVE DETAIL

NOT TO SCALE

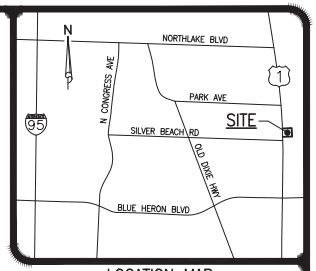
NOTE: SEE LANDSCAPE PLANS FOR PAVER BRICK SPECIFICATIONS



PAVER BRICK AT MANHOLE DETAIL

NOT TO SCALE

NOTE: SEE LANDSCAPE PLANS FOR PAVER BRICK SPECIFICATIONS



LOCATION MAP

NOT TO SCALE

N

20 10 0 20 40

SCALE IN FEET
1"=20'

LEGEND

S1–4' MH.	MANHOLE NUMBER AND TYPE
19.5 / 16.0	MANHOLE TOP ELEVATION / MANHOLE INVERT ELEVATION
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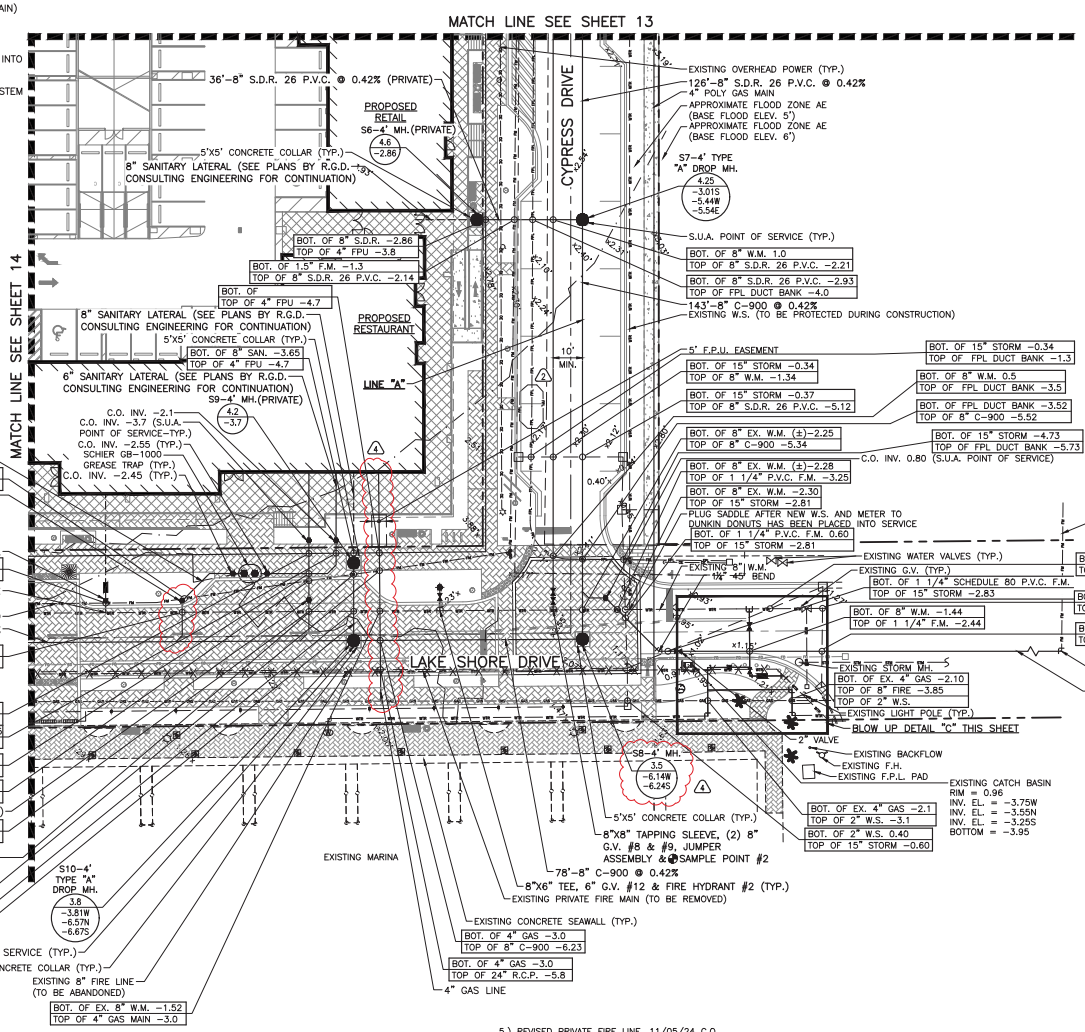
	MILL & RESURFACE



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ERIK R. COOPER LICENSED No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

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5.) REVISED PRIVATE FIRE LINE, 11/05/24 C.O.
4.) REVISED MANATEE S8, LATERAL FROM GREASE TRAP & ADDED FPU GAS MAINS, 08/19/24 C.O.
3.) ADDED F.P.U. EASEMENT & CROSSING INFO, 05/21/24 C.O.
2.) PERMIT REVISIONS 2, 06/02/23 C.O.
REVISED PER S.U.A. COMMENTS, 11/09/22 C.O.
1.) REVISE W.M. & FIRE TO MARINA, TEMP. F.M. PER S.U.A. COMMENTS, 8/25/22 C.O.

REVISIONS

SIMMONS & WHITE
3585 Motorcentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3453 | 561.478.7848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK
WATER AND WASTEWATER PLAN

JOB NO. 19–038

SHEET 15 OF 30

TOWN OF LAKE PARK BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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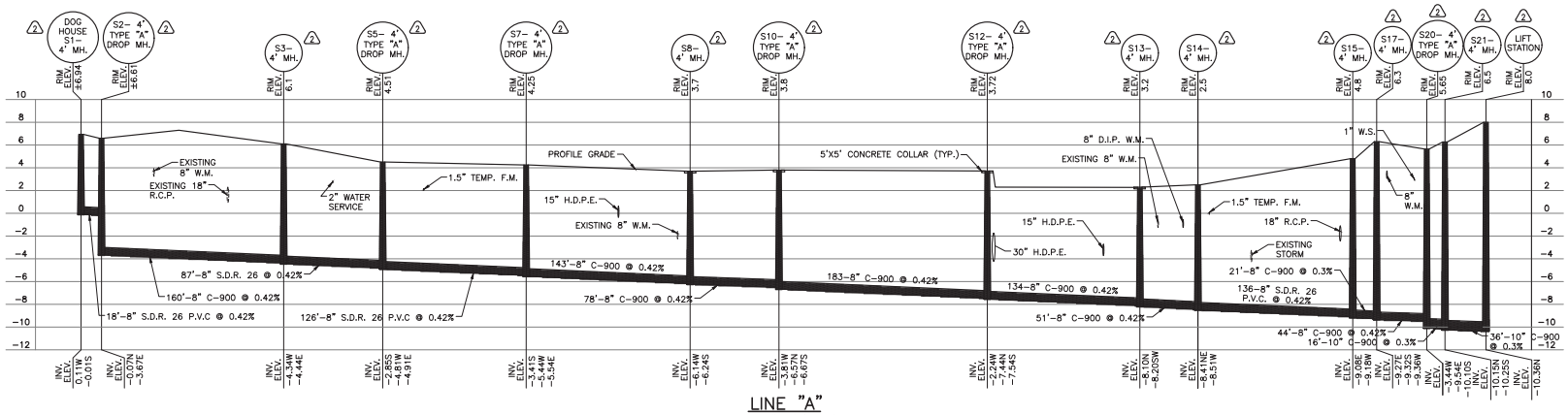
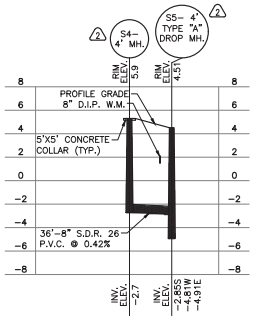


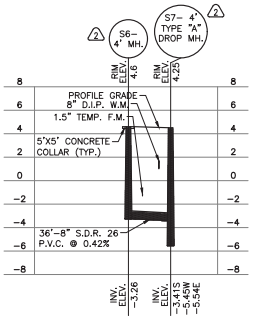
LINE "A"

SCALE: 1"=50' (HORIZ.)
1"=5' (VERT.)



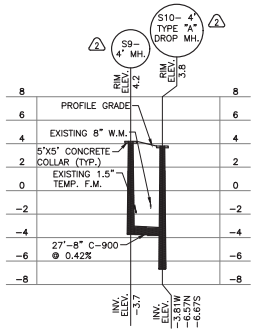
S4–S5

SCALE: 1"=50' (HORIZ.)
1"=5' (VERT.)



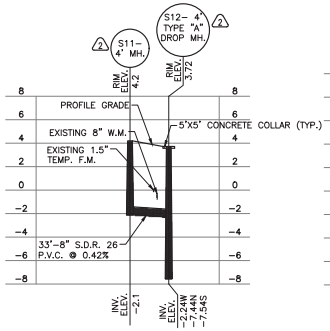
S6–S7

SCALE: 1"=50' (HORIZ.)
1"=5' (VERT.)



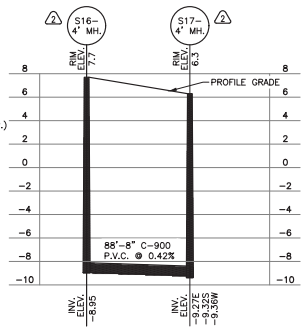
S9–S10

SCALE: 1"=50' (HORIZ.)
1"=5' (VERT.)



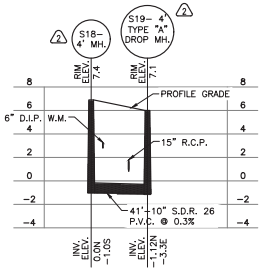
S11–S12

SCALE: 1"=50' (HORIZ.)
1"=5' (VERT.)



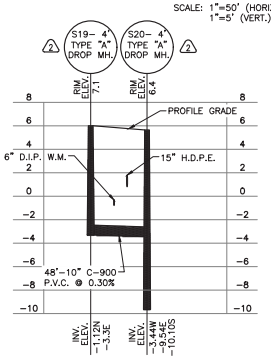
S16–S17

SCALE: 1"=50' (HORIZ.)
1"=5' (VERT.)



S18–S19

SCALE: 1"=50' (HORIZ.)
1"=5' (VERT.)



LINE "B:

SCALE: 1"=50' (HORIZ.)
1"=5' (VERT.)

DATUM NOTES:

1.) ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 BASED ON A SURVEY PREPARED BY BASELINE LAND SURVEY LLC (561) 417–0700.

2.) AN APPROXIMATE CONVERSION BETWEEN THE NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D.) OF 1929 AND N.A.V.D. CAN BE MADE BY ADDING 1.47 TO THE N.A.V.D. ELEVATION TO OBTAIN THE N.G.V.D. ELEVATION.

ERIK R. COOPER LICENSED No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ERIK R. COOPER, P.E. ON 12/23/2024.

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2 PERMIT REVISIONS 2, 06/02/23 C.O.
1 REVISED INVERTS PER S.U.A. COMMENTS, 8/25/22 C.O.

REVISIONS

SIMMONS & WHITE
3595 Metrocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 34513 | 561.478.7848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
SANITARY SEWER PROFILE

JOB NO. 19–038
SHEET 16 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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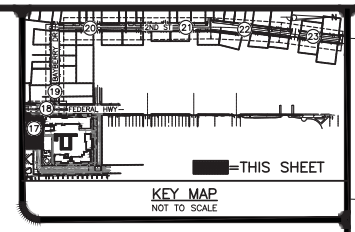
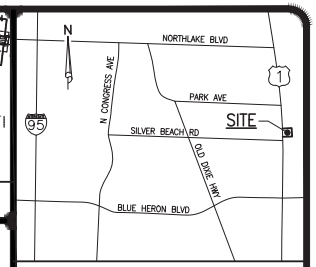
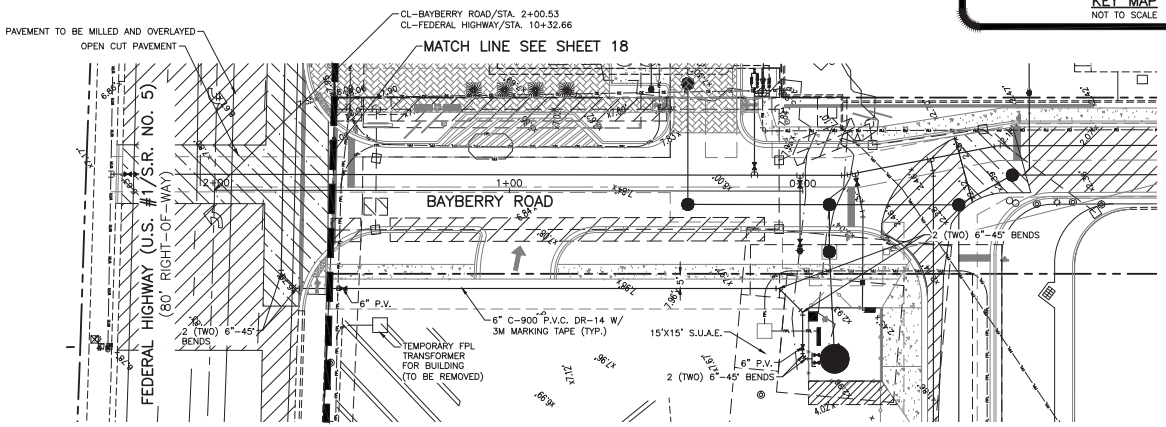


KEY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

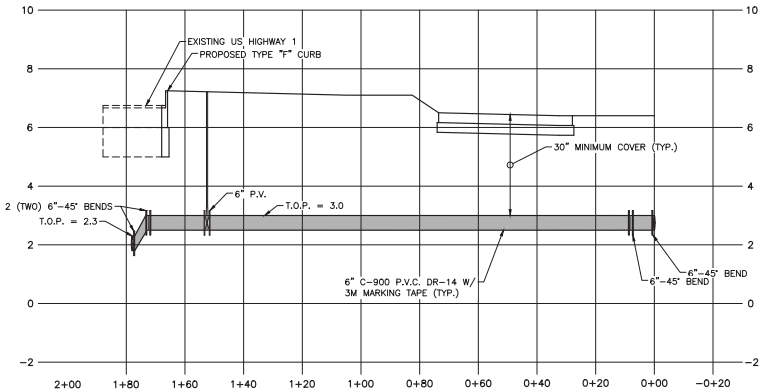


N

20 10 0 20 40
SCALE IN FEET
1"=20'

LEGEND

- SAWCUT, REMOVE, & REPLACE EXISTING CONCRETE, ASPHALT, CURB, ETC.
- MILL & RESURFACE



FORCE MAIN PROFILE VIEW 2

SCALE 1"=20' (HORIZ.)
1"=2' (VERT.)

NOTES:

CONTRACTOR TO POT HOLE AND FIELD VERIFY ALL CONDUIT/UTILITY CROSSINGS PRIOR TO START OF CONSTRUCTION AND REPORT TOP OF PIPE ELEVATION TO E.O.R.

48 HOURS BEFORE DIGGING
BROWARD ● PALM BEACH ● INDIAN RIVER
ST. LUCIE ● MARTIN COUNTIES
CALL TOLL FREE
1-800-432-4770
SUNSHINE STATE 1 CALL
UNDERGROUND UTILITIES
NOTIFICATION CENTER

NOTE: ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 BASED ON A SURVEY PREPARED BY BASELINE LAND SURVEY LLC (561) 417-0700.

ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

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2 PERMIT REVISIONS 2, 06/02/23 C.O.
REVISED PER S.U.A., 06/15/23 C.O.
1.) ADDED FORCE MAIN PROFILE PER S.U.A. COMMENTS, 8/25/22 C.O.

REVISIONS

SIMMONS & WHITE
3581 Metrocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3453 | 561.478.7848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
FORCE MAIN PROFILE

JOB NO. 19-038
SHEET 17 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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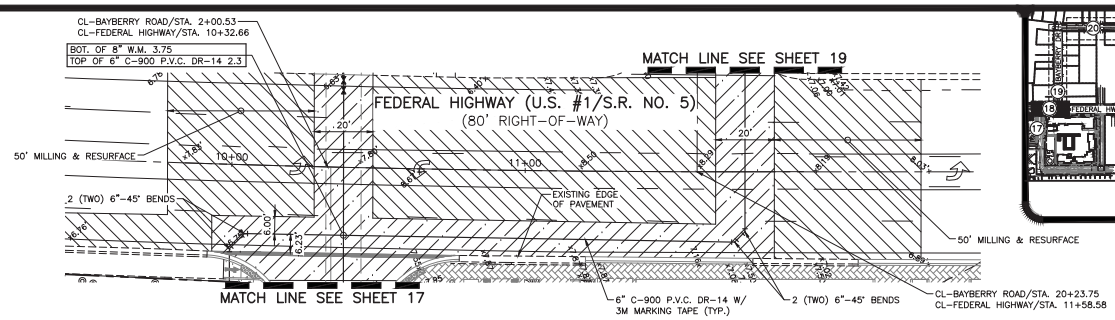
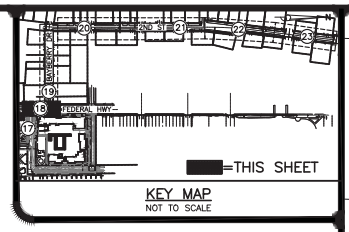
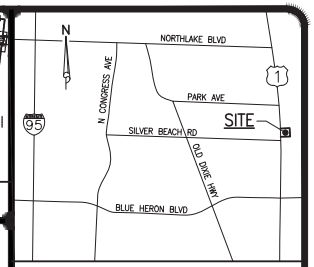




KEY MAP
NOT TO SCALE



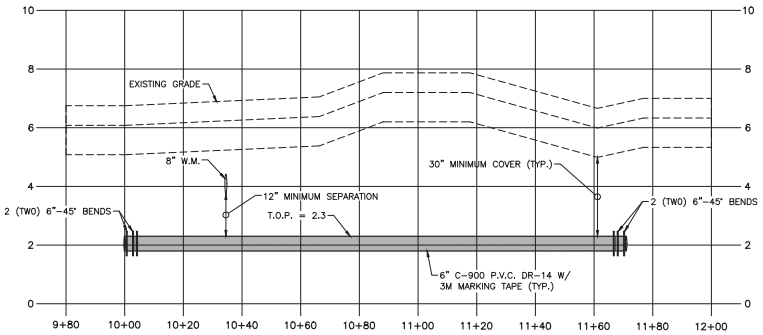
LOCATION MAP
NOT TO SCALE

N

20 10 0 20 40
SCALE IN FEET
1"=20'

LEGEND

- SAWCUT, REMOVE, & REPLACE EXISTING CONCRETE, ASPHALT, CURB, ETC.
- MILL & RESURFACE



FORCE MAIN PROFILE VIEW 2
SCALE 1"=20' (HORIZ.)
1"=2' (VERT.)

NOTES:

CONTRACTOR TO POT HOLE AND FIELD VERIFY ALL CONDUIT/UTILITY CROSSINGS PRIOR TO START OF CONSTRUCTION AND REPORT TOP OF PIPE ELEVATION TO E.O.R.

48 HOURS BEFORE DIGGING
BROWARD ■ PALM BEACH ■ INDIAN RIVER
ST. LUCIE ■ MARTIN COUNTIES
CALL TOLL FREE
1-800-432-4770
SUNSHINE STATE 1 CALL
UNDERGROUND UTILITIES
NOTIFICATION CENTER

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ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

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2 PERMIT REVISIONS 2, 06/02/23 C.O.
1 ADDED FORCE MAIN PROFILE PER S.U.A. COMMENTS, 8/25/22 C.O.

REVISIONS

SIMMONS & WHITE
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Authorization # 3453 | 561.478.7848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
FORCE MAIN PROFILE

JOB NO. 19-038
SHEET 18 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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NOTES:

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LEGEND

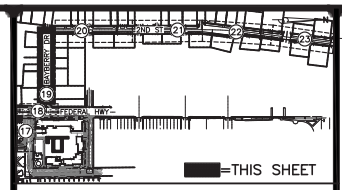
SAWCUT, REMOVE, & REPLACE EXISTING CONCRETE, ASPHALT, CURB, ETC.

MILL & RESURFACE

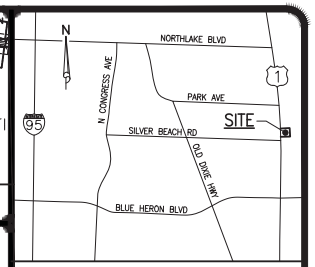
N

20 10 0 20 40

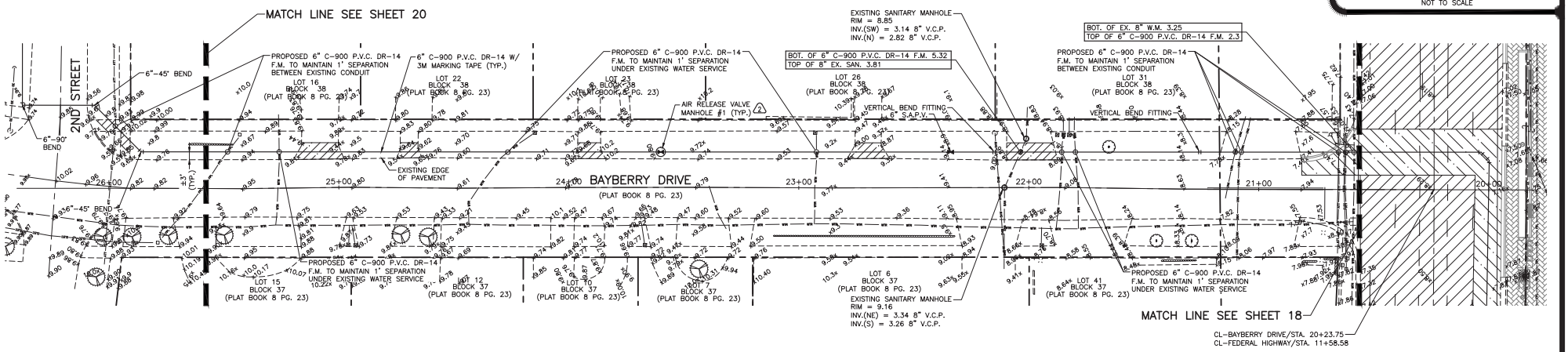
SCALE IN FEET
1"=20'

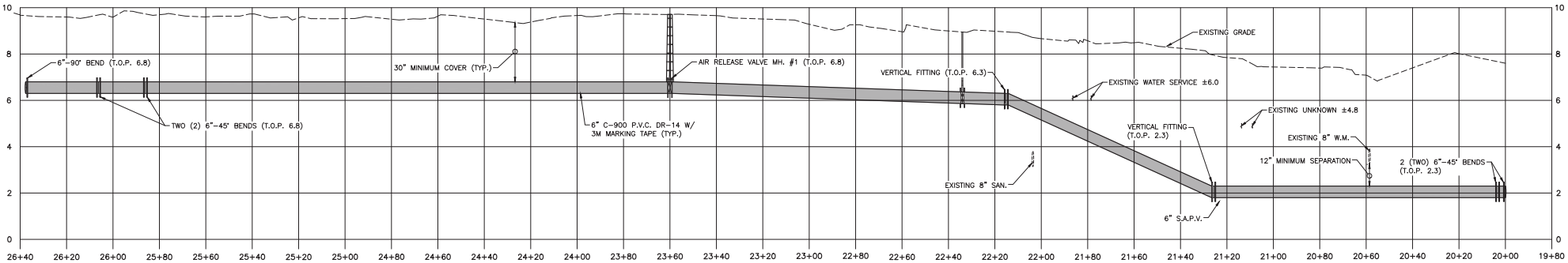


KEY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE





FORCE MAIN PROFILE VIEW 2

SCALE 1"=20' (HORIZ.)
1"=2' (VERT.)

48 HOURS BEFORE DIGGING
BROWARD ● PALM BEACH ● INDIAN RIVER
ST. LUCIE ● MARTIN COUNTIES
CALL TOLL FREE
1-800-432-4770
SUNSHINE STATE 1 CALL
UNDERGROUND UTILITIES
NOTIFICATION CENTER

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ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

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2 PERMIT REVISIONS 2, 06/02/23 C.O.
REVISED PER S.U.A., 06/15/23 C.O.
1.) ADDED FORCE MAIN PROFILE PER S.U.A. COMMENTS, 8/25/22 C.O.

REVISIONS

SIMMONS & WHITE
3585 Motorcentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3453 | 561.478.7848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
FORCE MAIN PROFILE

JOB NO. 19-038

SHEET 19 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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48 HOURS BEFORE DIGGING
BROWARD ■ PALM BEACH ■ INDIAN RIVER
ST. LUCIE & MARTIN COUNTIES
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1-800-432-4770
SUNSHINE STATE 1 CALL
UNDERGROUND UTILITIES
NOTIFICATION CENTER

NOTES:

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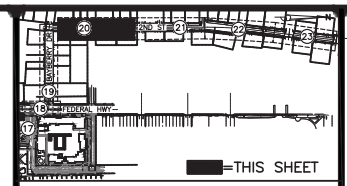
LEGEND

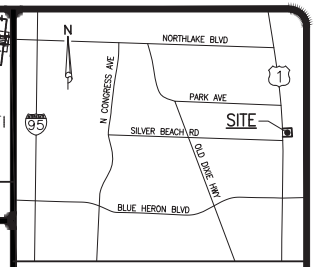
SAWCUT, REMOVE, & REPLACE EXISTING CONCRETE, ASPHALT, CURB, ETC.

N

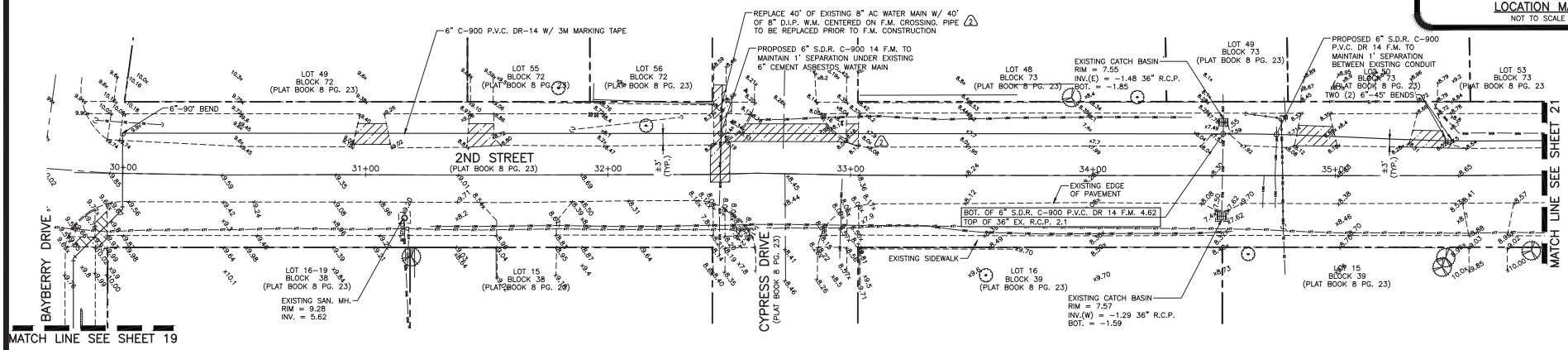
20 10 0 20 40
SCALE IN FEET
1"=20'

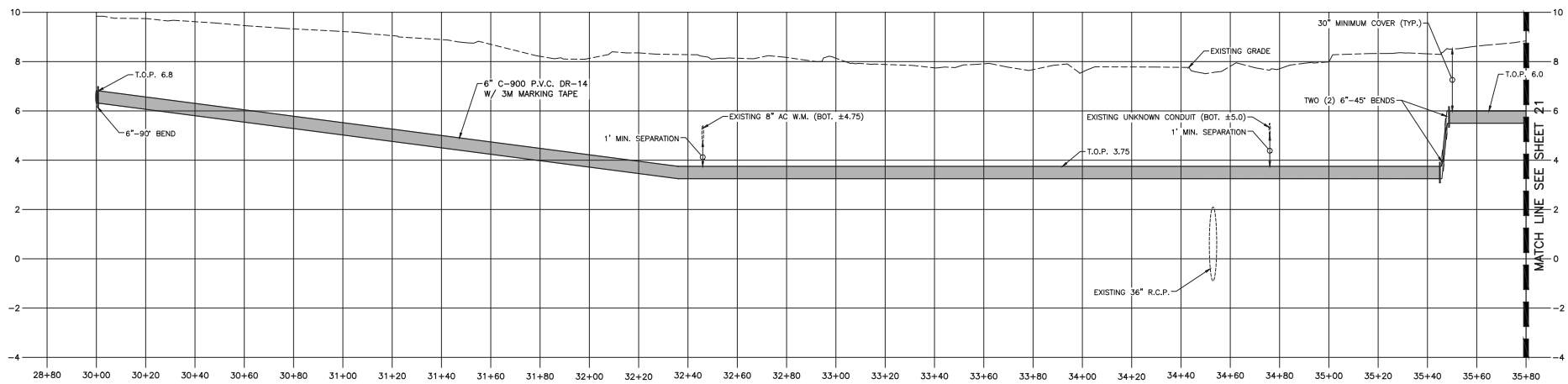


KEY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE





FORCE MAIN PROFILE VIEW 2
SCALE 1"=20' (HORIZ.)
1"=2' (VERT.)

NOTE: ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 BASED ON A SURVEY PREPARED BY BASELINE LAND SURVEY LLC (561) 417-0700.

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2 PERMIT REVISIONS 2, 06/02/23 C.O.
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REVISIONS

SIMMONS & WHITE
3585 Motocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3653 | 561.478.7848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK
FORCE MAIN PROFILE

JOB NO. 19-038
SHEET 20 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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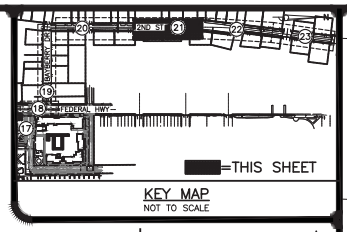
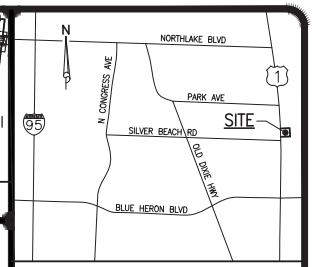


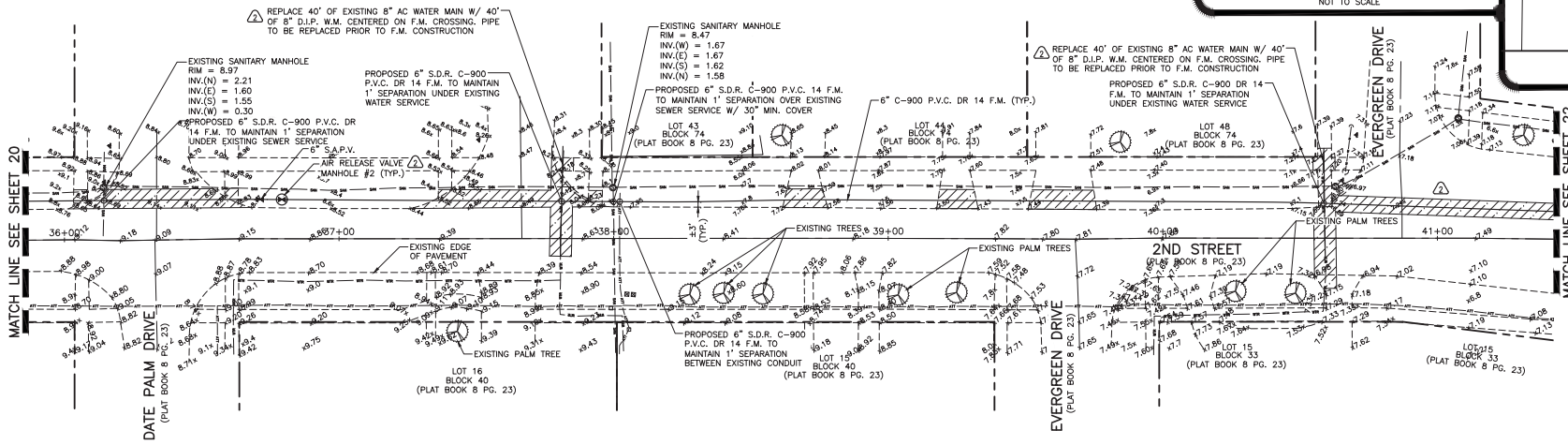
KEY MAP
NOT TO SCALE

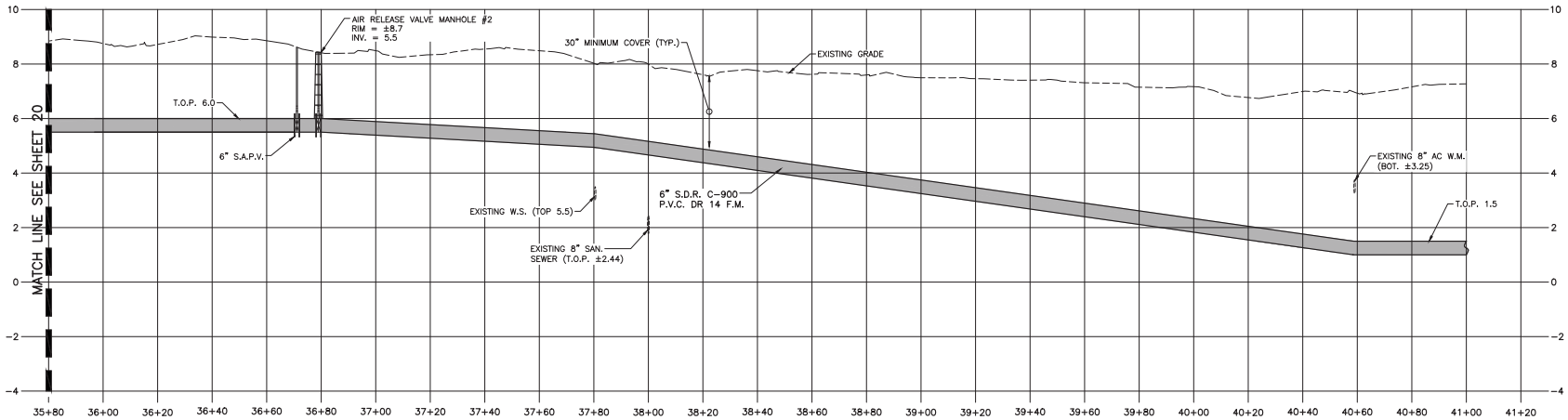


LOCATION MAP
NOT TO SCALE

LEGEND

SAWCUT, REMOVE, & REPLACE EXISTING CONCRETE, ASPHALT, CURB, ETC.





FORCE MAIN PROFILE VIEW 2

SCALE 1"=20' (HORIZ.)
1"=2' (VERT.)

NOTES:

CONTRACTOR TO POT HOLE AND FIELD VERIFY ALL CONDUIT/UTILITY CROSSINGS PRIOR TO START OF CONSTRUCTION AND REPORT TOP OF PIPE ELEVATION TO E.O.R.

48 HOURS BEFORE DIGGING
BROWARD ■ PALM BEACH ■ INDIAN RIVER
ST. LUCIE ■ MARTIN COUNTIES
CALL TOLL FREE
1-800-432-4770
SUNSHINE STATE 1 CALL
UNDERGROUND UTILITIES
NOTIFICATION CENTER

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2 PERMIT REVISIONS 2, 06/02/23 C.O.
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REVISIONS

SIMMONS & WHITE
3585 Motorcentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 34513 | 561.478.7848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
FORCE MAIN PROFILE

JOB NO. 19-038
SHEET 21 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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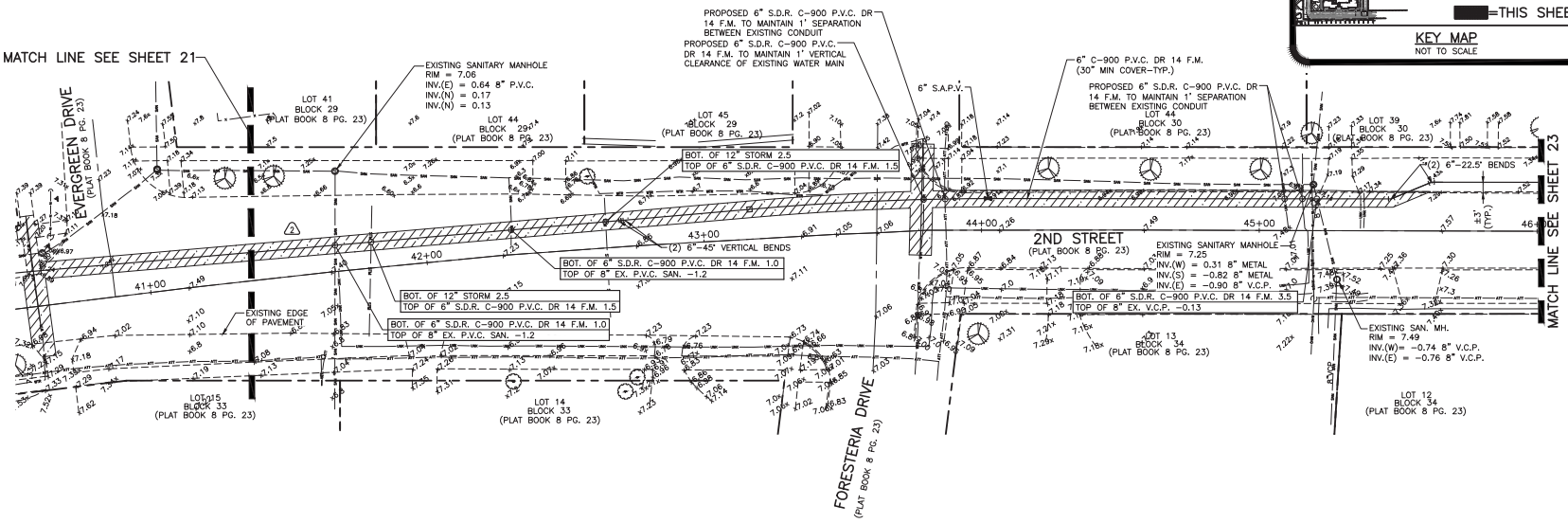
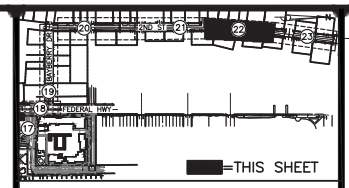
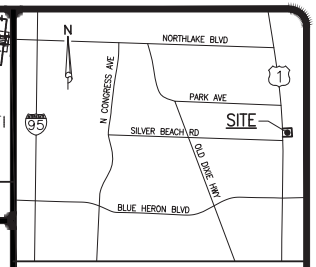
48 HOURS BEFORE DIGGING
BROWARD ■ PALM BEACH ■ INDIAN RIVER
ST. LUCIE ■ MARTIN COUNTIES
CALL
1-800-432-4770
SUNSHINE STATE 1 CALL
UNDERGROUND UTILITIES
NOTIFICATION CENTER





KEY MAP
NOT TO SCALE



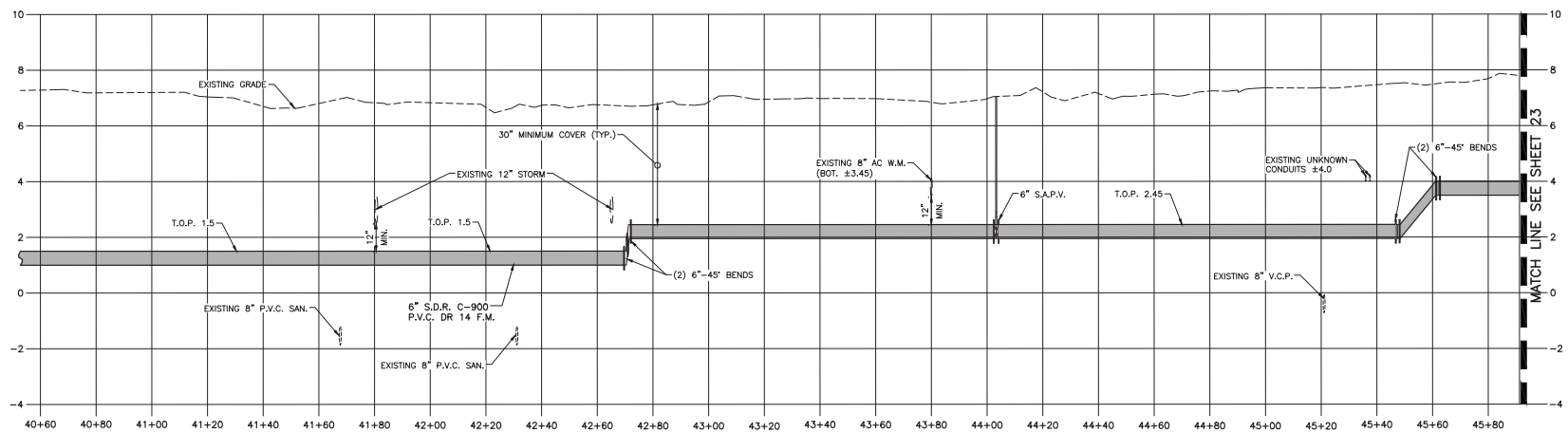
LOCATION MAP
NOT TO SCALE

N

20 10 0 20 40
SCALE IN FEET
1"=20'

LEGEND

SAWCUT, REMOVE, & REPLACE EXISTING CONCRETE, ASPHALT, CURB, ETC.



FORCE MAIN PROFILE VIEW 2

SCALE 1"=20' (HORIZ.)
1"=2' (VERT.)

NOTES:

CONTRACTOR TO POT HOLE AND FIELD VERIFY ALL CONDUIT/UTILITY CROSSINGS PRIOR TO START OF CONSTRUCTION AND REPORT TOP OF PIPE ELEVATION TO E.O.R.

NOTE: ALL ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 BASED ON A SURVEY PREPARED BY BASELINE LAND SURVEY LLC (561) 417-0700.

ERIK R. COOPER
LICENSED
No 56934
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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2 PERMIT REVISIONS 2, 06/02/23 C.O.
1 ADDED FORCE MAIN PROFILE PER S.U.A. COMMENTS, 8/25/22 C.O.

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DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK
FORCE MAIN PROFILE

JOB NO.	SHEET
19-038	22 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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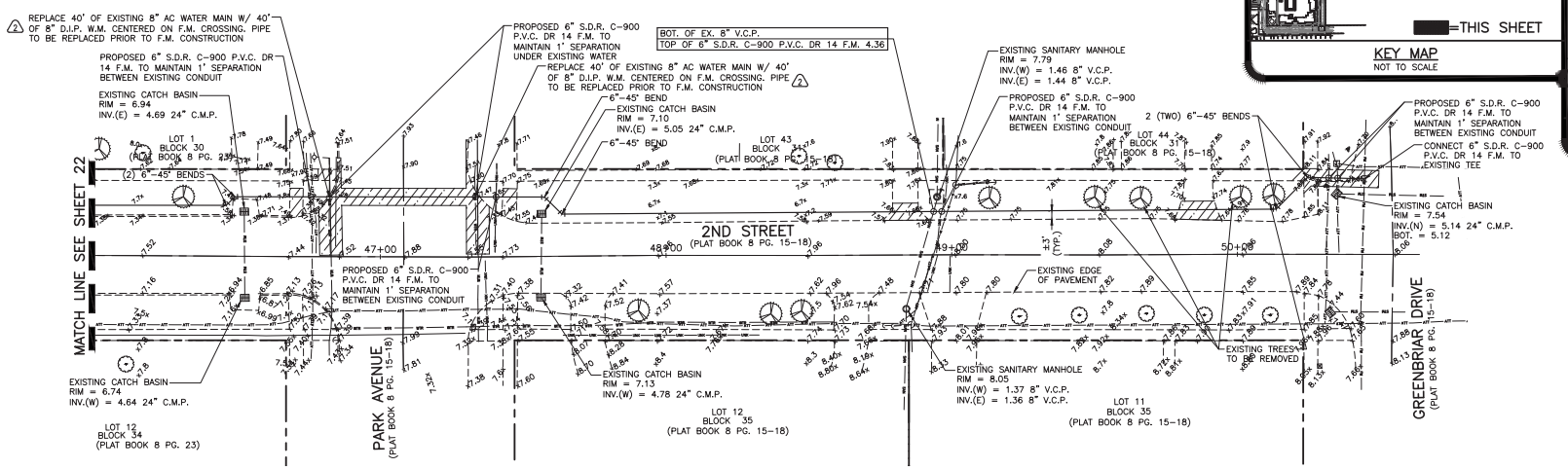

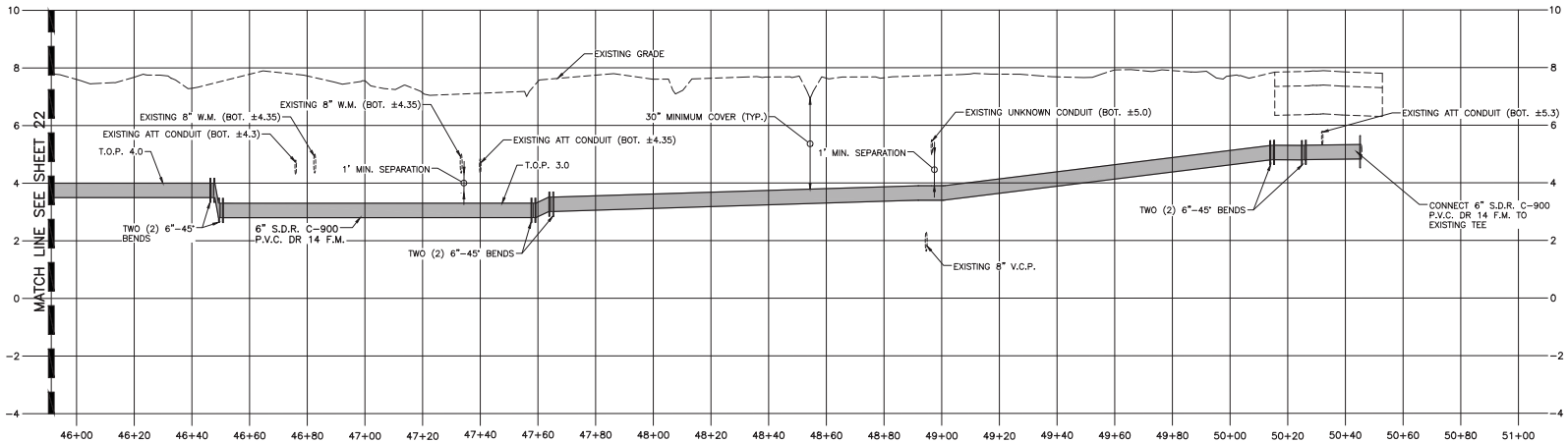

FORCE MAIN PROFILE VIEW 2

SCALE 1"=20' (HORIZ.)
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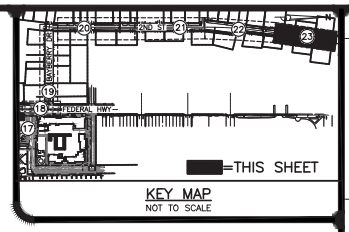
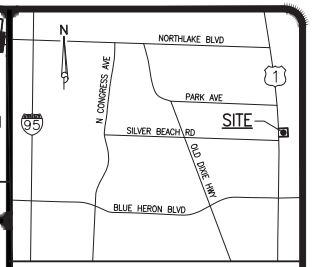


KEY MAP
NOT TO SCALE



LOCATION MAP
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N

20 10 0 20 40
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NOTES:

CONTRACTOR TO POT HOLE AND FIELD VERIFY ALL CONDUIT/UTILITY CROSSINGS PRIOR TO START OF CONSTRUCTION AND REPORT TOP OF PIPE ELEVATION TO E.O.R.

48 HOURS BEFORE DIGGING
BROWARD ■ PALM BEACH ■ INDIAN RIVER
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1-800-432-4770
SUNSHINE STATE 1 CALL
UNDERGROUND UTILITIES
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NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
FORCE MAIN PROFILE

JOB NO. 19-038
SHEET 23 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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STANDARD WATER, RECLAIMED WATER AND SEWER SEPARATION STATEMENT

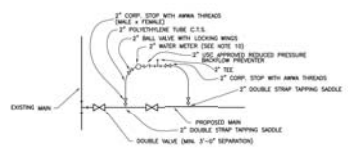
1. STORM SEWER, GRAVITY WASTEWATER, FORCE MAINS AND RECLAIMED WATER MAINS CROSSING UNDER POTABLE WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE (12) INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED BETWEEN GRAVITY SEWER OR STORM SEWER, THE CROSSING SHALL BE ARRANGED SO THAT THE STORM/GRAVITY SEWER PIPE JOINTS AND POTABLE WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN SIX (6) FEET BETWEEN ANY TWO JOINTS, BOTH PIPES SHALL BE D.I.P., AND THE MINIMUM VERTICAL SEPARATION SHALL BE SIX (6) INCHES. WHERE THERE IS NO ALTERNATIVE TO STORM/WASTEWATER/FORCE MAIN/RECLAIMED WATER MAINS CROSSING OVER A POTABLE WATER MAIN, THE CRITERIA FOR MINIMUM TWELVE (12) INCH VERTICAL SEPARATION BETWEEN LINES AND JOINT ARRANGEMENT, AS STATED ABOVE, SHALL BE REQUIRED, AND BOTH PIPES SHALL BE D.I.P. IRRESPECTIVE OF SEPARATION. IN ALL OF THE ABOVE CASES D.I.P. IS NOT REQUIRED FOR STORM SEWER PIPE.
2. FORCE MAINS CROSSING RECLAIMED WATER MAINS OR STORM SEWER SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE (12) INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND THE OUTSIDE OF THE RECLAIMED WATER MAIN OR STORM SEWER AND THE RECLAIMED WATER MAIN SHALL CROSS OVER THE FORCE MAIN.
3. AT THE UTILITY CROSSING DESCRIBED IN ITEMS 1 AND 2 ABOVE, ONE FULL LENGTH OF DUCTILE IRON WATER MAIN PIPE SHALL BE CENTERED SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE JOINTS. WHERE THIS IS NOT POSSIBLE, JOINTS SHALL BE AT LEAST THREE (3) FEET FROM STORM SEWERS AND SIX (6) FEET FROM GRAVITY SEWER MAINS, FORCE MAINS AND RECLAIMED WATER MAINS.
4. SEWER SERVICE LATERALS SHALL CROSS UNDER WATER MAINS WITH A MINIMUM VERTICAL SEPARATION OF TWELVE (12) INCHES. IF (12") VERTICAL SEPARATION CANNOT BE MAINTAINED, THEN THE WATER MAIN SHALL BE D.I.P. AND THE SEWER SERVICE LATERAL SHALL BE C-900 SDR 18 OR BETTER AND THE MINIMUM SEPARATION SHALL BE SIX (6) INCHES. WHEN IT IS NOT POSSIBLE FOR THE WATER MAIN TO CROSS OVER THE SEWER SERVICE LATERAL A MINIMUM VERTICAL SEPARATION OF AT LEAST TWELVE (12) INCHES MUST BE MAINTAINED, THE WATER MAIN SHALL BE D.I.P. AND THE SEWER LATERAL SHALL BE C-900 SDR 18 OR BETTER.
5. MAINTAIN MINIMUM TEN (10) FEET HORIZONTAL DISTANCE BETWEEN POTABLE WATER MAIN OR FORCE MAIN, RECLAIMED WATER MAIN, STORM SEWER OR GRAVITY SEWER MAIN OR ON SITE SEWAGE DISPOSAL SYSTEMS. ADDITIONAL SEPARATION MAY BE REQUIRED AS OUTLINED IN SECTION II OF SUA STANDARDS.

Water, Reclaimed Water, and Sewer and Separation Statement

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision B-18
DATE APPROVED: MAY 24, 2023
DRAWING No. 2

NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

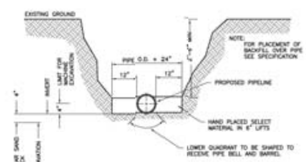
1. THIS METHOD SHALL BE COMPLIED WITH WHEN CONNECTING TO AN EXISTING WATER MAIN, (ONE THAT HAS ALREADY BEEN BACTERIOLOGICALLY CLEARED OR IS IN USE) WHETHER BY TEE AND VALVE OR BY CONTINUATION OF A PLUGGED STUB OUT WITH AN EXISTING GATE VALVE.
2. THESE REQUIREMENTS ARE BASED ON PALM BEACH COUNTY HEALTH DEPARTMENT REQUIREMENTS.
3. WHEN A TAPPING TEE AND VALVE IS INSTALLED, A PRESSURE/LEAKAGE TEST SHALL BE PERFORMED ON THE ASSEMBLY IN THE PRESENCE OF AN AUTHORIZED SUA REPRESENTATIVE PRIOR TO PERFORMING THE ACTUAL TAP.
4. DOUBLE VALVING PERMITS PHYSICAL CONNECTION TO AN EXISTING WATER MAIN WHEN USED IN CONJUNCTION WITH A BYPASS LINE.
5. A 2" BYPASS LINE (MAXIMUM) SHALL BE INSTALLED AS SHOWN BELOW PRIOR TO CANNON FLUSHING.
6. THE 2" TEE SHALL BE USED FOR FEEDING CHLORINE SOLUTION AND FOR ATMOSPHERIC VENT DURING PRESSURE/LEAKAGE TESTS.
7. UNDER NO CIRCUMSTANCES SHALL VALVES BE OPERATED WITHOUT AN AUTHORIZED SUA REPRESENTATIVE PRESENT.
8. ALL WATER MAINS SHALL BE FILLED WITH WATER UTILIZING ... AND THEN BE THOROUGHLY CANNON FLUSHED IN ACCORDANCE WITH SEACOAST SPECIFICATIONS PRIOR TO PRESSURE/LEAKAGE TESTING. THE PROCEDURE SHALL BE DONE ONLY IN THE PRESENCE OF AN AUTHORIZED SUA REPRESENTATIVE.
9. FOLLOWING INITIAL CANNON FLUSHING, ALL WATER FOR PRESSURE/LEAKAGE TESTING AND BACTERIOLOGICAL CLEARANCES MUST BE DRAWN FROM THE BYPASS LINE WITH METER AND REDUCED PRESSURE BACKFLOW PREVENTER IN PLACE. THE 2" INCH WATER METER SHALL BE PROVIDED BY SUA UPON APPLICATION BY EITHER THE CONTRACTOR OR DEVELOPER. ALL WATER USED FOR THE CONSTRUCTION OF THE WATER AND SEWER MAINS SHALL BE PAID FOR BY THE ABOVE PARTIES PRIOR TO ANY SERVICE BEING PROVIDED. METER, BALL VALVE, REDUCED PRESSURE BACKFLOW PREVENTER AND TEE SHALL INSTALLED AT LEAST 18" ABOVE EXISTING GRADE, SUPPORTED, AND PROTECTED FROM DAMAGE. ANY DAMAGE SHALL BE APPLICANT'S RESPONSIBILITY AND SHALL BE CHARGED ACCORDINGLY.
10. EXCEPT DURING CANNON FLUSHING VALVES SHALL NOT BE OPENED UNTIL AFTER AN APPROVED PRESSURE/ LEAKAGE TEST, BACTERIOLOGICAL CLEARANCE, CERTIFICATION BY THE ENGINEER OF RECORD, RELEASE FROM THE PALM BEACH COUNTY HEALTH DEPARTMENT AND APPROVAL BY SUA.
11. DISINFECTION AND BACTERIOLOGICAL CLEARANCES SHALL COMPLY WITH CURRENT AWWA PROCEDURES, PALM BEACH COUNTY HEALTH DEPARTMENT, AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS.



Tapping and Main Clearing Procedure

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision B-18
DATE APPROVED: MAY 24, 2023
DRAWING No. 3

(PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

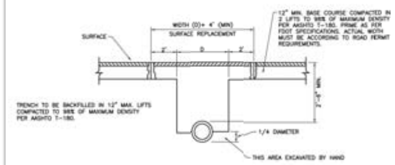


EXCAVATION SIDE SLOPE SHORING, ETC. SHALL CONFORM TO O.S.H.A. STANDARDS. COMPACT TRENCH BACKFILL TO 98% OF MAXIMUM DENSITY IN ACCORDANCE WITH AASHTO T-180. DENSITY TESTS SHALL BE TAKEN AT 12" LIFTS EVERY 100' IN PUBLIC RIGHT-OF-WAY AND 200' IN EASEMENTS

CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE REQUIREMENTS OF THE FLORIDA TRENCH SAFETY ACT.

Standard Trenching Procedure

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision C-20
DATE APPROVED: MAY 24, 2023
DRAWING No. 4



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. REPLACED BASE MATERIAL OVER DITCH SHALL BE A MINIMUM OF TWICE THE THICKNESS OF THE ORIGINAL BASE.
2. BASE MATERIAL SHALL BE PLACED IN A MINIMUM OF 2 LIFTS AND THOROUGHLY ROLLED OR TAMPED TO 98% OF MAXIMUM DENSITY PER AASHTO T-180.
3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
4. SURFACE MATERIAL SHALL BE CONSISTENT WITH EXISTING SURFACE, WITH ASPHALT A MINIMUM OF 2" THICK.
5. A MINIMUM OF TWO DENSITY TESTS SHALL BE TAKEN FOR EACH SIX (6") INCH LIFT OF SUBGRADE AND EACH OPEN CUT CROSSING. ROAD CROSSINGS GREATER THAN 24 FEET IN WIDTH SHALL REQUIRE ONE ADDITIONAL TEST SITE FOR EACH ADDITIONAL 12 FEET OF PAVEMENT. WHEN THE SPECIFIED COMPACTED BASE IS GREATER THAN SIX AND ONE-HALF (6 1/2") INCHES, THE BASE SHALL BE CONSTRUCTED IN TWO OR MORE COURSES. PROCTORS FOR MATERIALS USED IN BACKFILLING SHALL BE OBTAINED BY A CERTIFIED LABORATORY. DENSITY TESTS SHALL BE CONDUCTED BY A CERTIFIED LABORATORY. THE PERCENTAGE OF MAXIMUM DENSITY REQUIRED SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "THE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AT THE TIME THE PERMIT WAS ISSUED. ALL DENSITY TESTS SHALL BE COMPLETED AND ACCEPTED ON EACH LAYER PRIOR TO ADDITIONAL BACKFILLING. A COPY OF ALL COMPLETED AND ACCEPTED DENSITY TESTS SHALL BE FURNISHED TO SUA UPON REQUEST. BACKFILL COMPACTION SHALL BE 98% OF MAXIMUM DENSITY PER AASHTO T-180.
6. ANY DAMAGE TO TRAFFIC SIGNALIZATION EQUIPMENT SHALL BE REPAIRED BY THE PALM BEACH TRAFFIC DIVISION AT THE CONTRACTORS EXPENSE.
7. THESE SPECIFICATIONS MAY BE SUPERSEDED BY THE PERMITTING AGENCY.
8. TEMPORARY ASPHALT OR CONCRETE PATCH MUST BE APPLIED THE SAME DAY AS THE BACKFILL.
9. TRAFFIC AREAS OR WHERE SAFETY TO THE PUBLIC IS AT ISSUE A TEMPORARY ASPHALT OR CONCRETE PATCH MUST BE IMMEDIATELY PLACED.

Pavement Replacement

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision A-15
DATE APPROVED: MAY 24, 2023
DRAWING No. 5

LENGTH OF PIPE RESTRAINT REQUIREMENTS AT ALL PIPE JOINTS

PIPE SIZE	90° BEND	45° BEND	22½° BEND	11¼° BEND	REDUCER	VALVE	DEAD END	TEE
4"	54'	54'	36'	36'	54'	72'	72'	72'
6"	54'	54'	36'	36'	54'	72'	72'	72'
8"	54'	54'	36'	36'	54'	72'	72'	72'
10"	54'	54'	36'	36'	54'	108'	108'	108'
12"	72'	72'	54'	54'	72'	108'	108'	108'
14"	72'	72'	54'	54'	72'	108'	108'	108'
16"	72'	72'	54'	54'	72'	154'	154'	154'
18"	72'	72'	54'	54'	72'	154'	154'	154'
20"	90'	90'	54'	54'	90'	154'	154'	154'
24"	90'	90'	54'	54'	90'	172'	172'	172'
30"	90'	90'	54'	54'	90'	180'	180'	180'
36"	90'	90'	54'	54'	90'	270'	270'	270'
42"	108'	108'	54'	54'	108'	270'	270'	270'
48"	108'	108'	54'	54'	108'	270'	270'	270'
54"	108'	108'	54'	54'	108'	270'	270'	270'

MINIMUM LENGTH OF PUSH ON JOINT PIPE WITH SPECIAL RESTRAINING GASKETS

NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. ALL BURIED PRESSURE MAINS SHALL INCLUDE A RESTRAINED JOINT SYSTEM. THE CONTRACTOR SHALL USE A DUCTILE IRON RESTRAINING SYSTEM AS MANUFACTURED BY EBAA IRON, INC. (MEGALUG) OR APPROVED EQUAL FOR ALL MECHANICAL JOINT FITTINGS AND LOCKING GASKETS FOR PUSH-ON JOINT PIPE.
2. RESTRAINING LENGTHS SHOWN ARE THE MINIMUM LENGTH REQUIRED BASED ON A TEST PRESSURE OF 150 P.S.I.G.
3. THRUST BLOCKS, IN ADDITION TO THE ABOVE OUTLINED RESTRAINTS, SHALL ALSO BE REQUIRED AT ALL TIE-INS TO EXISTING LINES, ALL TAPPING TEES ON EXISTING LINES, ALL NEW HYDRANTS, ALL ABOVE-GROUND ASSEMBLIES 3" AND LARGER AND MAINS GREATER THAN 12" IN DIAMETER.
4. FOR ALL C900 PVC PIPE, ADD A SAFETY FACTOR OF 1.1 TO THE ABOVE LENGTHS.

Pipe Restraint Table

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CONSTRUCTION STANDARDS AND DETAILS
Revision D-23
DATE APPROVED: MAY 24, 2023
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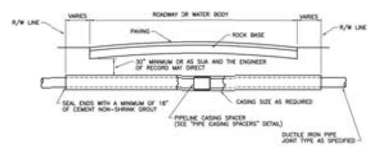

	NOMINAL PIPE SIZE	STEEL CASING	THICKNESS SCHEDULE
FAST GRIP OR FIELD LOK GASKET	4"	12"	.375
	6"	16"	.375
	8"	18"	.375
	10"	20"	.375
	12"	24"	.375
	14"	24"	.375
	16"	30"	.375
	18"	30"	.375
	20"	36"	.375
	24"	42"	.500
RESTRAINED MECHANICAL JOINT	30"	48"	.500
	36"	54"	.500
	42"	60"	.500
	48"	72"	.500

(PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

Steel Casing Installation

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision A-15
DATE APPROVED: MAY 24, 2023
DRAWING No. 7

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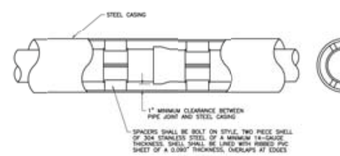

NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. CARRIER PIPE FOR 4" THROUGH 24" DIAMETER PIPE WITHIN CASING SHALL BE RESTRAINT GASKET.
2. RESTRAINED MECHANICAL JOINTS SHALL BE USED FOR PIPE 30" DIAMETER AND ABOVE AND SHALL HAVE FACTORY WELDED RETAINING RINGS. AMERICAN RESTRAINED JOINT PIPE OR APPROVED EQUAL MAY BE USED.
3. FOR PIPE DIAMETERS 4" THROUGH 12" INSTALL STAINLESS STEEL PIPE CASING SPACERS 5' OR LESS FROM EACH END OF PIPE BUT NOT MORE THAN 10' APART (2 PER PIPE). FOR PIPE DIAMETERS 14" AND LARGER INSTALL STAINLESS STEEL PIPE CASING SPACERS 5' OR LESS FROM EACH END OF PIPE AND ONE CENTERED ON PIPE (3 PER PIPE)(CASCADE MFG. CO. OR APPROVED EQUAL).
4. PIPE CASING SPACERS SHALL BE CENTER POSITIONED.
5. ALTERNATE METHODS OF PIPE SUPPORT WITHIN THE CASING MUST BE APPROVED BY SUA PRIOR TO INSTALLATION.
6. SEAL ANNULAR SPACE BETWEEN CASING AND PIPE WITH 18" MIN. OF NON-SHRINK GROUT MIX AND INSTALL RUBBER BOOT SEAL WITH STAINLESS STEEL BANDS AND CLAMPS.

Pipe Casing Spacers

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision B-20
DATE APPROVED: MAY 24, 2023
DRAWING No. 8

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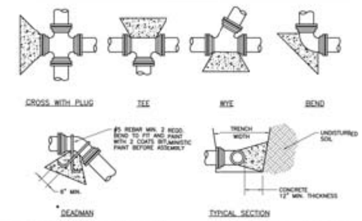

ALL THRUST BLOCKS SHALL BE FORMED. LAID FORMS SHALL BE INSPECTED BY SUA PRIOR TO THE POURING OF CONCRETE AND SHALL ALSO BE INSPECTED BY SUA PRIOR TO COVERING. TYPICAL LOCATIONS WHICH REQUIRE CONCRETE THRUST BLOCKS. FOR PRESSURE MAINS FOUR INCHES (4") AND GREATER CONCRETE SHALL HAVE 2500 P.S.I. MINIMUM STRENGTH AT TWENTY EIGHT (28) DAYS AND BEAR AGAINST UNDISTURBED STABLE SOILS. AREA OF CONTACT SHALL BE GOVERNED BY PIPE SIZE, MAXIMUM PRESSURE IN PIPE, AND BEARING CAPACITY OF SOIL. PROTECT FITTINGS, BOLTS, ETC. BY COVERING WITH VISQUINE OR OTHER ACCEPTABLE MATERIAL. CONCRETE SHALL BE A MINIMUM OF TWELVE INCHES (12") THICK. THRUST BLOCKS SHALL NOT BE AN ALTERNATIVE TO RESTRAINING GUARDS OR RESTRAINING GASKETS. THRUST BLOCKS MAY BE USED WHERE A SECOND FORM OF RESTRAINT IS REQUIRED AND WHEN TYING INTO EXISTING WHERE NO OTHER ALTERNATIVE EXISTS.

(PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

PIPE	THRUST BLOCK SOIL BEARING AREA REQUIRED	PIPE	THRUST BLOCK SOIL BEARING AREA REQUIRED	REMARKS
4"	2.0 SQ. FT.	18"	30.0 SQ. FT.	VALUES ARE FOR 90° BEND, BASED ON 2000 P.S.F. SAFE BEARING LOAD AND PIPE PRESSURE OF 150 P.S.I. PLUS 33% SAFETY FACTOR FOR OTHER SOILS AND PRESSURES.
6"	4.0 SQ. FT.	20"	37.0 SQ. FT.	
8"	6.6 SQ. FT.	24"	53.0 SQ. FT.	
10"	10.0 SQ. FT.	27"	80.0 SQ. FT.	
12"	14.0 SQ. FT.	30"	98.0 SQ. FT.	
14"	18.0 SQ. FT.	36"	127.0 SQ. FT.	
16"	24.0 SQ. FT.			

* THE ENGINEER OF RECORD SHALL CALCULATE THE SIZE OF THE DEADMAN REQUIRED AS WELL AS ANY INSTALLATION WHICH IS NOT COVERED BY THE ABOVE.

Thrust Blocks

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision B-23
DATE APPROVED: MAY 24, 2023
DRAWING No. 9

NOTE: ALL BACKFLOW PREVENTERS TO BE USC APPROVED.

NOTE: ALL WATER MAIN TO BE IN ACCORDANCE W/ F.A.C. 62-555.320(21)(B)(3).

ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Authorization # 3452 | 561.478.7848

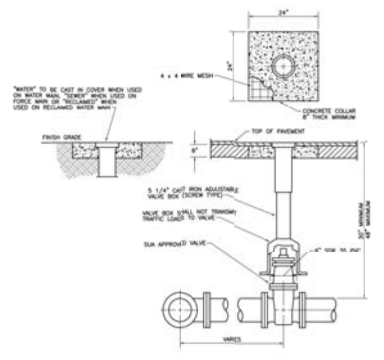
DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
WATER AND WASTEWATER DETAILS

JOB NO. 19-038

SHEET 24 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

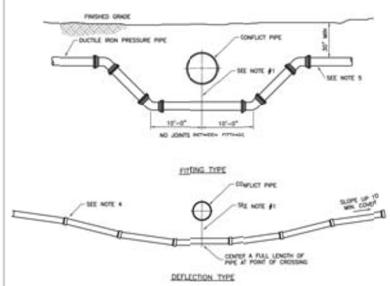
1. CONCRETE COLLAR MAY NOT BE REQUIRED IN PAVED AREAS IF PAVEMENT SURFACE IS FINISHED PRIOR TO FINAL INSPECTION AND VALVE BOX LID IS AT FINISHED GRADE.
2. WHEN VALVE IS DEEPER THAN 48" AN EXTENSION WILL BE REQUIRED TO BRING OPERATING NUT TO 24" OF FINISHED GRADE.
3. TWO OF THE FOLLOWING FORMS OF RESTRAINT SHALL BE USED WHEN PIPE IS GREATER THAN 12".
   A.) APPROVED MECHANICAL JOINT RESTRAINT (I.e. MEGALUG)
   B.) TIE RODS AND NUTS EQUAL IN DIA. TO TEE BOLTS AND NUTS, COATED WITH KOP-COAT 300-M OR APPROVED EQUAL.

Typical Underground Valve Installation

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS

DATE APPROVED: MAY 24, 2023 | DRAWING No. 10 | Revision B-23

1



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. FOR VERTICAL SEPARATION SEE "WATER, RECLAIMED WATER AND SEWER SEPARATION STATEMENT" DRAWING #2.
2. ONE OF THE FOLLOWING FORMS OF RESTRAINT SHALL BE USED FROM FITTING TO FITTING FOR PIPE SIZES UP TO AND INCLUDING 12". FOR PIPE SIZES GREATER THAN 12" TWO FORMS OF RESTRAINT SHALL BE USED.
   A.) APPROVED MECHANICAL JOINT RESTRAINT. (i.e. MEGALUG)
   B.) TIE RODS AND NUTS EQUAL IN DIA. TO TEE BOLTS AND NUTS, COATED WITH KOP-COAT 300-M OR APPROVED EQUAL.
   C.) THRUST BLOCKS - ADVANCE APPROVAL BY SUA REQUIRED.
3. THE DEFLECTION TYPE CROSSING IS PREFERRED, BUT IN INSTANCES WHERE THE FITTING TYPE DEFLECTION IS USED, 22 1/2° BENDS ARE PREFERRED.
4. DEFLECTION SHALL NOT EXCEED 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM JOINT DEFLECTION.
5. PIPE SHALL BE RESTRAINED FOR EACH FITTING TYPE DEFLECTION PER "PIPE RESTRAINT TABLE" DETAIL.
6. ALL JOINTS IN DEFLECTIONS SHALL BE AS-BUILT ON THE RECORD DRAWINGS.

Pressure Pipe Deflection

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS

DATE APPROVED: MAY 24, 2023 | DRAWING No. 14 | Revision D-23

1

INSTALLATION PROTOCOL

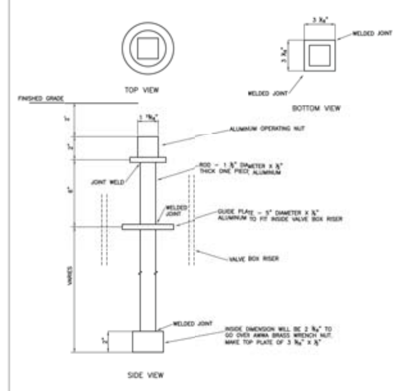
1. ALL PIPE IS TO BE LAID IN A CLEAN DRY TRENCH.
2. ALL MUCK AND UNSUITABLE MATERIALS ENCOUNTERED IN TRENCH BOTTOM SHALL BE REMOVED AND REPLACED WITH COMPACTED GRANULAR MATERIAL TO 98% OF MAXIMUM DENSITY PER AASHTO T-180. PROCTOR AND DENSITY TEST RESULTS SHALL BE SUBMITTED TO EOR WITH A COPY TO AUTHORITY.
3. ALL BACKFILL SHALL BE PLACED IN 12 INCH LIFTS AND COMPACTED BY MECHANICAL MEANS TO 98% OF MAXIMUM DENSITY PER AASHTO T-180 OR AS OTHERWISE REQUIRED BY THE PERMITTING AGENCY.
4. UTILITIES CROSSING ROAD RIGHT-OF-WAY SHALL BE INSTALLED PRIOR TO ROAD CONSTRUCTION AND BACKFILLED AND COMPACTED WITHIN RIGHT-OF-WAY LIMITS IN STRICT ACCORDANCE WITH THE DIRECTIONS OF THE EOR AND REQUIREMENTS OF ALL AGENCIES OF JURISDICTION.
5. EMBEDMENT MATERIALS BELOW PIPE SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION SYSTEM (U.S.C.S.) SOIL CLASSIFICATION CLASS I OR II AS NOTED IN ASTM D2321.
6. ALL LINES UNDER CONSTRUCTION SHALL BE PLUGGED WITH A WING PLUG, AND ALL PRESSURE PIPES ARE TO BE PLUGGED WITH A MECHANICAL PLUG OR CAP AT THE END OF THE WORKING DAY TO PREVENT GROUND WATER AND POTENTIAL CONTAMINANTS FROM ENTERING COMPLETED LINES AND LINES UNDER CONSTRUCTION.
7. ABOVE GROUND PIPING, INCLUDING BUT NOT LIMITED TO, AERIAL CROSSINGS, LIFT STATION PIPING, FIRE LINES, METER/BACKFLOW PREVENTION DEVICE ASSEMBLIES, ETC. SHALL BE FLANGED AND BE COATED IN ACCORDANCE WITH SECTION 2 OF SEACOAST UTILITY AUTHORITY CONSTRUCTION STANDARDS. THE FINISHED COAT OF PAINT SHALL BE GREEN IN COLOR FOR SANITARY SEWER, LAVENDER FOR RECLAIMED APPURTENANCES AND BLUE FOR POTABLE WATER APPURTENANCES.
8. ALL FLANGED PIPE SHALL BE CAULKED BETWEEN EACH FLANGE AND THREADS WITH SIKA 1 A URETHANE CAULK AFTER BLASTING AND PRIOR TO PRIMING.
9. ALL TIE RODS, BOLTS, NUTS, ETC. INSTALLED UNDERGROUND MUST BE COR TEN OR APPROVED EQUAL AND SHALL BE PAINTED WITH KOPPERS 300-M OR AN AUTHORITY APPROVED EQUAL. BRASS AND STAINLESS STEEL HARDWARE IS EXEMPT FROM THIS REQUIREMENT.
10. COATINGS AND LININGS DAMAGED DUE MISHANDLING OR OTHERWISE, MUST BE REPLACED. COATING AND LININGS DAMAGED DUE TO FIELD CUTTING SHALL BE REPAIRED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, CEMENT MORTAR AND POLYETHYLENE PIPE LININGS, PROTECTO 401, GALVANIZED COATINGS, PVC FENCE COATINGS AND OTHER TYPE COATINGS. APPROVAL MUST BE OBTAINED FROM AUTHORITY PRIOR TO PERFORMING COATING AND LINING REPAIRS. INSPECTIONS OF ALL REPAIRS ARE REQUIRED.
11. ALL STAINLESS STEEL NUTS, BOLTS AND HARDWARE REFERENCED IN THESE STANDARDS, SHALL BE SS 316 GRADE AND SHALL BE SO STAMPED BY THE MANUFACTURER TO VERIFY ALLOY. THE USE OF ANY OTHER STAINLESS STEEL ALLOY WILL REQUIRE SPECIFIC APPROVAL BY AUTHORITY. IN GENERAL, STAINLESS STEEL NUTS, BOLTS AND HARDWARE ARE REQUIRED IN AND AROUND LIFT STATIONS AND FOR FACILITIES INSTALLED OVER OR UNDER BRACKISH OR MARINE WATERS. THIS REQUIREMENT APPLIES TO FLANGE BOLTS AND NUTS ON FLANGED PIPING, MOUNTING BRACKETS, ALL THREAD ROD, ANCHOR BOLTS, WASHERS, CLAMPS AND OTHER MISCELLANEOUS HARDWARE. ANTI-GALLING COMPOUND ANTI-SEIZE LUBRICANT SHALL BE APPLIED TO THE THREADS OF ALL STAINLESS STEEL BOLTS PRIOR TO INSTALLATION.

    ANTI-SEIZE LUBRICANT SHALL BE GRAPHITE 50 ANTI-SEIZE BY LOCTITE CORPORATION, 1000 ANTI-SEIZE PASTE BY DOW CORNING OR 3M LUBE AND ANTI-SEIZE BY 3M.
12. ALL RUBBER AND SYNTHETIC ELASTOMERIC COMPONENTS OF PRODUCTS THAT COME IN CONTACT WITH POTABLE WATER SHALL BE MANUFACTURED WITH CHLORAMINE RESISTANT ELASTOMERS AND SHALL BEAR NSF APPROVAL.
13. ALL MAIN, INCLUDING FITTINGS, SHALL BE EASILY IDENTIFIABLE AS TO THEIR CONTENTS AND SHALL BE COLOR CODED OR MARKED USING THE UNIVERSAL COLOR CODE OF BLUE FOR WATER, GREEN FOR SEWER AND LAVENDER FOR RECLAIMED. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPES WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.

Pipe Installation Protocol

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS

DATE APPROVED: MAY 24, 2023 | DRAWING No. 15 | Revision D-23



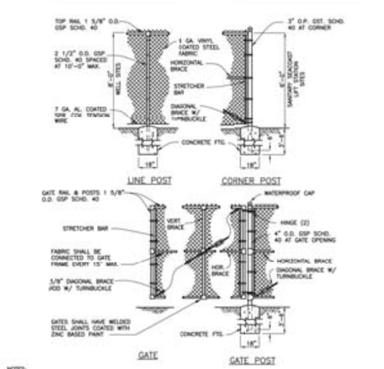
NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. EXTENSIONS ARE REQUIRED FOR VALVES EXTENDING FOR MORE THAN 4 FEET BELOW FINISHED GRADE.
2. ALL MATERIALS SHALL BE 6061 T-6 ALUMINUM.

Valve Extension

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS

DATE APPROVED: MAY 24, 2023 | DRAWING No. 16 | Revision A-15



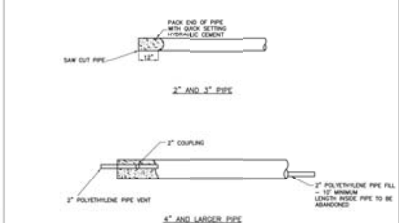
NOTES:

1. GATE TO BE SIZED PER REQUIREMENTS.
2. VINYL COATED STEEL WOVEN WIRE FABRIC TO BE STRETCHED TAUT W/ STRETCHER BARS AND STRAPS AND FASTENED TOP & BOTTOM AND AT LINE POSTS WITH GALV. PIG RING TIES.
3. GATE TO BE SECURED OPEN WITH GATE STOP SET IN CONCRETE.
4. ALL RAILS, POSTS AND HARDWARE TO BE BLACK VINYL COATED.
5. WHERE POSTS COME IN CONTACT WITH CONCRETE THEY SHALL BE COATED WITH KOPPERS 300M OR APPROVED EQUAL.
6. GA. CALL-OUTS ARE FOR WIRE BEFORE VINYL COATING.
7. VERTICAL BLACK PVC FENCE SLATS REQUIRED.

Fence Detail

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS

DATE APPROVED: MAY 24, 2023 | DRAWING No. 17 | Revision B-23



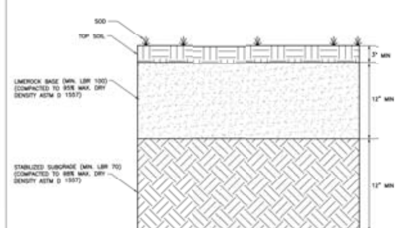
NOTE: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. INSTALL 2" PIPE AT BOTH ENDS OF LINE TO BE ABANDONED. GROUT IN PLACE WITH QUICK SETTING HYDRAULIC CEMENT.
2. PUMP FLOWABLE GROUT FROM ONE END, OR INTERMEDIATE POINTS ALONG THE PIPELINE, UNTIL PIPE IS FILLED AS WITNESSED BY THE DISCHARGE FROM 2" PIPE(S). REMOVE 2" PIPE AND FILL WITH QUICK SETTING HYDRAULIC CEMENT.
3. MAXIMUM LENGTH OF PIPE TO BE GROUTED IS 300 LF
4. ALL PIPE GROUTED TO BE AS-BUILT AND SHOWN ON THE RECORD DRAWINGS

Pipe Abandonment

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS

DATE APPROVED: MAY 24, 2023 | DRAWING No. 18 | Revision C-23

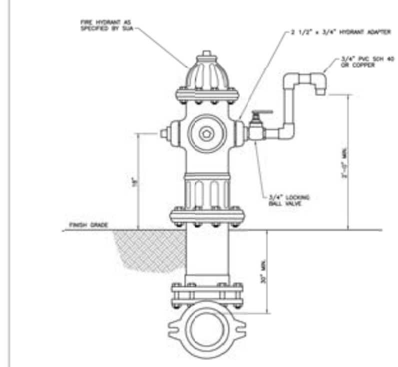


Stabilized SUA Easement Section

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS

DATE APPROVED: MAY 24, 2023 | DRAWING No. 19 | Revision A-19

1

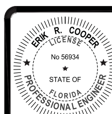


PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

Sample Point - Fire Hydrant

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS

DATE APPROVED: MAY 24, 2023 | DRAWING No. 21 | Revision A-15



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ERIK R. COOPER, P.E. ON 12/23/2024.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

1 PERMIT REVISIONS 2, 06/02/23 C.O.

REVISIONS

SIMMONS & WHITE
2581 Metrocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3452 | 561.478.7848

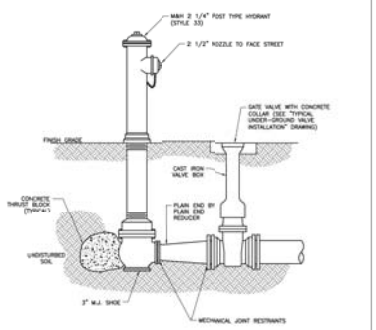
DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
WATER AND WASTEWATER DETAILS

JOB NO. 19-038

SHEET 25 OF 30

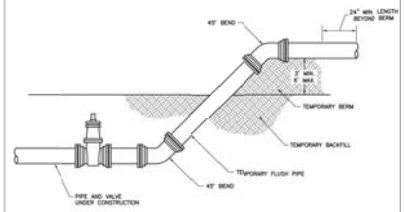
TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025



PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

Flushing Hydrant

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision C-23
DATE APPROVED: MAY 24, 2023
DRAWING No. 22

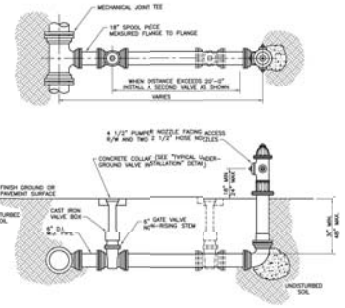


NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, THE MAINS SHALL BE CANNON FLUSHED TO REMOVE DIRT AND ANY OTHER FOREIGN MATTER BY ACHIEVING A MINIMUM VELOCITY OF 2.5 FEET PER SECOND IN THE PIPE. TEMPORARY FITTINGS, PIPE, ETC. MAY BE NEEDED TO FACILITATE CANNON FLUSHING.
2. INSTALL A 45° BEND AND ASSOCIATED PIPING AS SHOWN TO DIRECT THE FLUSHING WATER AWAY FROM THE IMMEDIATE WORK AREA. EXERCISE DUE CARE TO ENSURE THAT THE WATER USED IN FLUSHING DOES NOT CAUSE A NUISANCE OR CAUSE PROPERTY DAMAGE.
3. BENDS AND PIPING SHALL BE THE SAME SIZE AS THE LINE TO BE FLUSHED.
4. PRIOR TO THE ACTUAL LINE FLUSHING OPERATION, THE CONTRACTOR SHALL PROPERLY NOTIFY SUA OF SUCH INTENDED WATER USE.
5. NO EXISTING VALVES SHALL BE TURNED ON OR OFF, EXCEPT BY AUTHORIZED SUA PERSONNEL.
6. FLUSHING SHALL NOT BE ACCOMPLISHED WITHOUT THE ACTUAL PRESENCE OF AN SUA REPRESENTATIVE.
7. AFTER THE LINE UNDER CONSTRUCTION HAS BEEN SUCCESSFULLY FLUSHED THE CONTRACTOR SHALL REMOVE THE TEMPORARY PIPING ARRANGEMENT AND PROCEED WITH THE REMAINING CONSTRUCTION AS SPECIFIED.
8. SPECIAL PROCEDURES ARE REQUIRED FOR CLEANING AND FLUSHING PIPE LARGER THAN 12".
9. IF THE MAIN IS GREATER THAN 8", THE FLUSH PIPE SHALL BE REDUCED TO 8". IF THE PIPE IS BEING PIGGED, THEN THE REDUCTION IS NOT REQUIRED.

Cannon Flushing Procedure

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision C-23
DATE APPROVED: MAY 24, 2023
DRAWING No. 24

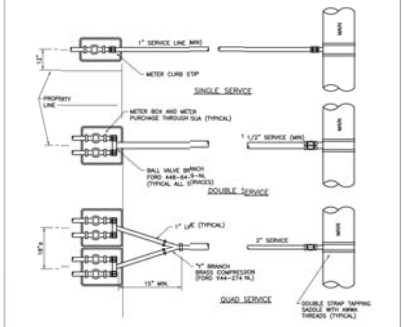


NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. DRAINS OR WEEP HOLES ON HYDRANT BARREL SHALL BE PLUGGED.
2. FIRE HYDRANT SHALL BE INSTALLED PLUMB AND TRUE.
3. THRUST BLOCKS TO REST IN UNDISTURBED SOIL.
4. REFER TO FAWWA "D" SHOP SPECIFICATION LIST FOR ACCEPTABLE FIRE HYDRANTS.
5. TWO OF THE FOLLOWING FORMS OF RESTRAINT SHALL BE USED WHEN PIPE IS GREATER THAN 12".
   A) APPROVED MECHANICAL JOINT RESTRAINT (i.e. MEGALUG)
   B) TIE RODS AND NUTS EQUAL IN DIA. TO TEE BOLTS AND NUTS, COATED WITH KOP-COAT 300-W OR APPROVED EQUAL.

Typical Fire Hydrant Installation

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision B-19
DATE APPROVED: MAY 24, 2023
DRAWING No. 26

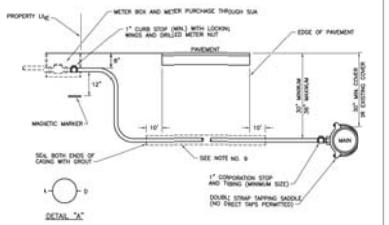


NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. AUTHORIZED SERVICE LINE MATERIAL:
   A) TYPE "K" COPPER TUBING WITH COMPRESSION FITTINGS.
   B) POLYETHYLENE TUBING SDR 9, COPPER TUBE SIZE.
2. METER CURB STOP SHALL BE WITH LOCKING WINGS AND DRILLED METER PIT, 1" MINIMUM.
3. 1" METER CURB STOPS WITH 3/4" VALVES SHALL NOT BE PERMITTED.
4. MULTIPLE SERVICE/METER INSTALLATIONS OF MORE THAN 4 METERS PER SERVICE AND SERVICE LINES LARGER THAN 2" IN DIAMETER SHALL BE APPROVED ON AN INDIVIDUAL BASIS.
5. METER CURB STOPS: 1 1/2" AND 2" IN SIZE SHALL BE PROVIDED WITH A METER FLANGE.
6. SERVICE LINE SHALL BE CONTINUOUS BETWEEN CORP STOP AND CURB STOP WITH THE EXCEPTION OF THE "Y" BRANCH

Typical Water Service

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision C-23
DATE APPROVED: MAY 24, 2023
DRAWING No. 28



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. CASINGS SHALL BE REQUIRED FOR ALL LONG SIDE SERVICES.
2. [illegible] TAPS ON THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18" OFFSET AND AT 90° FROM THE CENTERLINE AS SHOWN ON DETAIL "A".
3. WHERE NO SIDEWALK EXISTS, METER BOXES SHALL BE SET TO CONFORM TO FINISH GRADE.
4. COPPER TUBING SHALL BE TYPE "K" WITH COMPRESSION FITTINGS.
5. POLYETHYLENE TUBING SHALL BE SDR 9, COPPER TUBE SIZE.
6. ROTATE THE CORPORATION STOP SO THAT THE OPERATING NUT IS ACTUATED FROM THE VERTICAL POSITION RATHER THAN THE HORIZONTAL POSITION.
7. BOTH COPPER AND POLYETHYLENE TUBING SERVICE LINES SHALL BE CONTINUOUS FROM CORPORATION STOP TO CURB STOP WITH NO FITTINGS IN BETWEEN.
8. TAPPING SADDLES AND CORPORATION STOPS SHALL HAVE AWWA INLET THREADS.
9. SERVICE CASING SHALL NOT BE INSTALLED BY WATER JETTING UNDER ROADWAY.
10. GALVANIZED SCHEDULE 40 CASING REQUIRED FOR ANY INSTALLATION REQUIRING A JACK AND BORE . SCHEDULE 40 PVC MAY BE USED FOR AN OPEN CUT INSTALLATION WITH THE APPROVAL OF SUA. CASING SHOULD EXTEND TEN (10) FEET BEYOND EDGE OF PAVEMENT AND SIZED AS FOLLOWS:
    A.) 1" SERVICE USE 3" CASING
    B.) 1 1/2" SERVICE USE 3" CASING
    C.) 2" SERVICE USE 4" CASING

Typical Water Service Installation

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision B-23
DATE APPROVED: MAY 24, 2023
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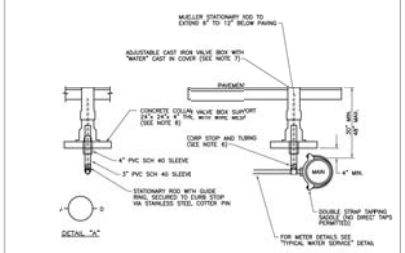
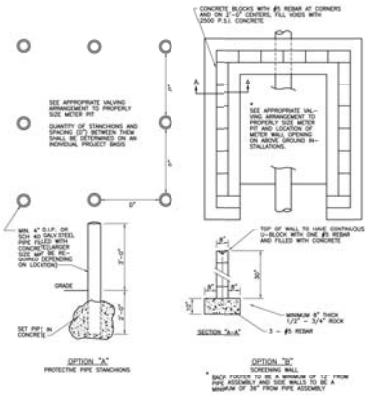


NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18" OFFSET AND AT 90° FROM THE CENTERLINE AS SHOWN ON DETAIL "A".
2. COPPER TUBING SHALL BE TYPE "K" WITH COMPRESSION FITTINGS.
3. POLYETHYLENE TUBING SHALL BE SDR 9, COPPER TUBE SIZE.
4. BOTH COPPER AND POLYETHYLENE TUBING SERVICE LINES SHALL BE CONTINUOUS FROM CURB STOP TO ANGLE METER STOP WITH NO FITTINGS IN BETWEEN.
5. TAPPING SADDLES TO HAVE AWWA THREADS.
6. CORPORATION STOP AT THE MAIN TO HAVE MALE AWWA THREADS ON ONE SIDE AND BE COMPRESSION ON THE OTHER SIDE.
7. VALVE BOX SHALL BE 5 1/4" CAST IRON SCREW TYPE ADJUSTABLE.
8. CONCRETE COLLAR VALVE BOX SUPPORT TO BE PLACED ON COMPACTED SOIL TO SUPPORT VALVE BOX SO THAT A MINIMUM OF 4 INCHES EXISTS BETWEEN THE BOTTOM OF THE CONCRETE COLLAR AND THE TOP OF THE WATER MAIN.
9. FOR RESIDENTIAL APPLICATIONS MUST BE DESIGNATED ON THE APPROVED PLAN OR APPROVED IN ADVANCE BY SUA REPRESENTATIVE.

Water Service Tap Under Pavement

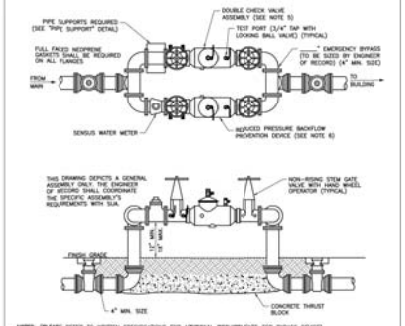
SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision B-23
DATE APPROVED: MAY 24, 2023
DRAWING No. 30



PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

Protective Enclosures for Above Ground Devices

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision A-15
DATE APPROVED: MAY 24, 2023
DRAWING No. 31



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR BYPASS DEVICE)

1. MECHANICAL JOINT FITTINGS SHALL BE REQUIRED UNDERGROUND AND FLANGED FITTINGS FOR ABOVE GROUND USE, NO UNFLANGED PERMITTED.
2. PAINT THE ABOVE GROUND ASSEMBLY IN ACCORDANCE WITH SUA CONSTRUCTION STANDARD SECTION 9, ITEM 7, AFTER MANUFACTURERS RECOMMENDED SURFACE PREP IS COMPLETED. DO NOT PAINT OVER NAME/SERIAL PLATE, STAINLESS STEEL OR BRASS FITTINGS.
3. WHEN PROTECTIVE PIPE STANCHIONS OR A SCREEN WALL IS REQUIRED, SEE "PROTECTIVE ENCLOSURES FOR ABOVE GROUND DEVICES" DETAIL.
4. 3" METER REQUIRES 4" BACKFLOW ASSEMBLY AND PIPING.
5. ALL TEST PORTS SHALL BE PLUGGED WITH BRASS PLUG.
6. APPROVED REDUCED PRESSURE BACKFLOW PREVENTER WITH CHLORAMINE RESISTANT ELASTOMERS, 4" TO 8"
   A.) APOLLO BPLF 4A
   B.) ZURN 375AST

Meter and Backflow Assembly (3" and Larger)

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision F-23
DATE APPROVED: MAY 24, 2023
DRAWING No. 33

*USC APPROVED

ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

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E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
WATER AND WASTEWATER DETAILS

JOB NO. 19-038

SHEET 26 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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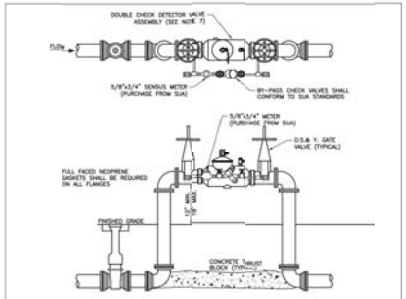
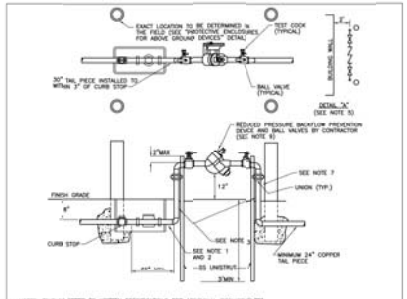


NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. MECHANICAL JOINT FITTINGS SHALL BE REQUIRED UNDERGROUND AND FLANGED FITTINGS FOR ABOVE GROUND USE, NO UNFLANGED PERMITTED.
2. PAINT THE ABOVE GROUND ASSEMBLY, INCLUDING ENTIRE LENGTH OF TIE RODS, IN ACCORDANCE WITH SUA CONSTRUCTION STANDARD SECTION II, ITEM E. AFTER MANUFACTURERS RECOMMENDED SURFACE PREP IS COMPLETED. DO NOT PAINT OVER NAME/SERIAL PLATE, STAINLESS STEEL BODY OR BRASS FITTINGS.
3. WHEN PROTECTIVE PIPE STANCHIONS OR A SCREEN WALL IS REQUIRED, SEE "PROTECTIVE ENCLOSURES FOR ABOVE GROUND DEVICES" DETAIL.
4. SPECIAL FIRE PROTECTION SYSTEMS USING INTERNAL PUMPS, TANKS, ETC. SHALL BE REQUIRED TO USE APOLLO RFQ4/4A OR ZURN 375ASTSA.
5. ALL TEST PORTS SHALL BE PLUGGED WITH BRASS PLUGS.
6. TWO OF THE FOLLOWING FORMS OF RESTRAINT SHALL BE USED WHEN PIPE IS GREATER THAN 12".
   A.) APPROVED MECHANICAL JOINT RESTRAINT (i.e. MEGALUG)
   B.) TIE RODS AND NUTS EQUAL IN DIA. TO TIE BOLTS AND NUTS, COATED WITH KOP-COAT 300-M OR APPROVED EQUAL.
7. APPROVED DOUBLE CHECK DETECTOR VALVE ASSEMBLES WITH CHLORAMINE RESISTANT ELASTOMERS; 4" TO 8"
   A.) AMES DERINGER 300
   B.) APOLLO DCDA/7 4A
   C.) ZURN 350ASTDA

Above Ground Fireline

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision E-23
DATE APPROVED: MAY 24, 2023
DRAWING No. 34



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. TYPE "K" COPPER TUBING (SOFT DRAWN) OR POLYETHYLENE TUBING SDR 9 COPPER TUBE SIZE.
2. IF THIS DISTANCE IS LESS THAN 6 FEET ONLY COPPER TUBING SHALL BE PERMITTED.
3. BOTH RISERS SHALL BE TYPE "K" COPPER TUBING (HARD DRAWN) WITH COPPER/BRASS SOLDER FITTINGS AND ADAPTERS. ONLY LEAD FREE PIPE, FITTINGS, VALVES, SOLDER AND FLUX SHALL BE PERMITTED.
4. 1 1/2" AND 2" METER STOPS SHALL BE EQUIPPED WITH LOCKING CAPS AND METER FLANGES.
5. WHEN THE DEVICE IS INSTALLED PARALLEL TO A BUILDING WALL THERE SHALL BE A MINIMUM OF 2' BETWEEN THE EDGE OF THE DEVICE AND THE BUILDING WALL.
6. BACKFLOW PREVENTION DEVICE SHALL BE EQUIPPED WITH BALL VALVES.
7. BACKFLOW PREVENTION DEVICE SHALL BE SUPPORTED AT BOTH RISERS WITH A MINIMUM OF 2 - 1 5/8" STAINLESS STEEL UNISTRUTS. RISERS TO BE SECURED TO UNISTRUT WITH 304 STAINLESS STEEL MOUNTING HARDWARE AND 1/4" NEOPRENE INSULATORS.
8. BACKFLOW DEVICES SHALL BE A MINIMUM OF 3' FROM BACK OF CURB.
9. APPROVED BACKFLOW PREVENTION DEVICES WITH SILICONE RUBBER SEAL RINGS OR DISCS; 3/4" TO 2"
   A.) AMES LF400DS
   B.) APOLLO RPLF 4A
   C.) WATTS LF919
   D.) ZURN 975XL2

Water Meter and Backflow Device 3/4" to 2"

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision D-23
DATE APPROVED: MAY 24, 2023
DRAWING No. 36

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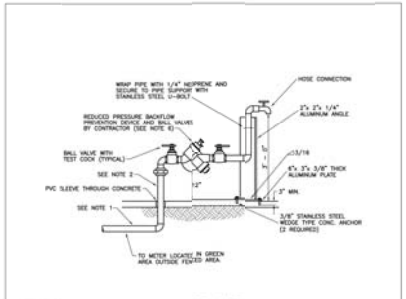

NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. TYPE "K" COPPER TUBING (SOFT DRAWN).
2. BOTH RISERS SHALL BE TYPE "K" COPPER TUBING (HARD DRAWN) WITH COPPER/BRASS SOLDER FITTINGS AND ADAPTERS. ONLY LEAD FREE PIPE, FITTINGS, VALVES, SOLDER AND FLUX SHALL BE PERMITTED.
3. BACKFLOW PREVENTION DEVICE SHALL BE EQUIPPED WITH BALL VALVES.
4. FOR PLACEMENT OF BACKFLOW ASSEMBLY WITHIN FENCED AREA SEE "TYPICAL LIFT STATION SITE PLAN" DETAIL.
5. BACKFLOW PREVENTION DEVICE SHALL BE SUPPORTED AT BOTH RISERS WITH ALUMINUM ANGLE AS SHOWN ABOVE. RISERS TO BE SECURED TO ANGLE WITH TYPE 304 SST MOUNTING HARDWARE AND NEOPRENE INSULATORS.
6. APPROVED BACKFLOW PREVENTION DEVICES WITH SILICONE RUBBER SEAL RINGS OR DISCS; 3/4" TO 2"
   A.) AMES LF400DS
   B.) APOLLO RPLF 4A
   C.) WATTS LF919
   D.) ZURN 975XL2

Lift Station Backflow Preventer Assembly

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CONSTRUCTION STANDARDS AND DETAILS
Revision D-23
DATE APPROVED: MAY 24, 2023
DRAWING No. 38

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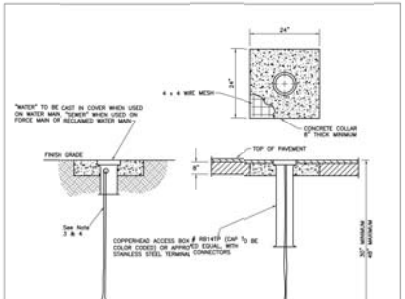
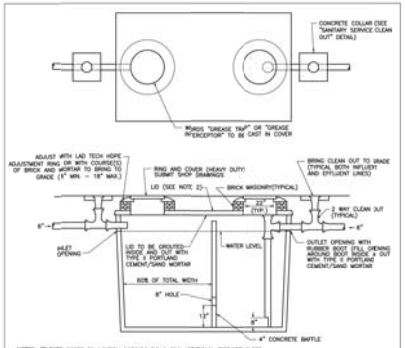


NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. REQUIRED FOR HDD AND PVC MAINS AND AS DIRECTED BY SUA.
2. 800' MAXIMUM SPACING BETWEEN TURNER WIRE ACCESS BOXES
3. 1/2" X 8' COPPER CLAD GROUND RODS SHALL BE UTILIZED AT BOTH TERMINAL ENDS OF THE TRACER WIRE AND BE ACCESSIBLE
4. 1/2" X 20' COPPER CLAD GROUND ROD SHALL BE UTILIZED WHERE PIPE IS BELOW WATER TABLE.
5. IF A NEW VALVE BOX (DRAWING #10) IS IN THE VICINITY, THE TRACER WIRE ACCESS BOX MAY BE INCLUDED IN THE VALVE BOX COLLAR. NO SEPARATE CONCRETE COLLAR IS REQUIRED.

Tracer Wire Access Box

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision D-23
DATE APPROVED: MAY 24, 2023
DRAWING No. 44

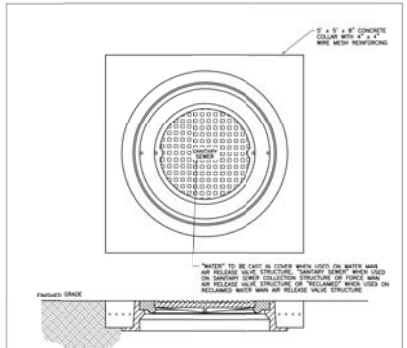


NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. SHOP DRAWINGS FOR PRECAST TANKS SHALL BEAR THE FOLLOWING STATEMENT."THIS CONCRETE STRUCTURE MEETS OR EXCEEDS ALL THE REQUIREMENTS FOR GREASE INTERCEPTORS/SEPTIC TANKS AS IN THE FLORIDA ADMINISTRATIVE CODE CHAPTER 62-6 AND 64E-6, AND SUA "SPECIFICATIONS AND STANDARDS" THE SHOP DRAWINGS (3 COPIES MINIMUM) SHALL THEN BE SIGNED AND SEALED BY THE ENGINEER OF RECORD AND FORWARDED TO SUA FOR APPROVAL.
2. LID TYPES:
   A) 4" REGULAR LID
   B) 8" TRAFFIC BEARING LID
3. ALL PIPING SHALL BE SOLVENT WELD PIPE.
4. ALL TANKS IN TRAFFIC AREA SHALL BE H20 WHEEL LOAD BEARING.
5. INSPECTION OF TANK REQUIRED BY SUA PRIOR TO PLACEMENT.
6. INSPECTION OF TANK REQUIRED BY SUA AFTER TANK IS PIPED.
7. TANKS IN SERIES SHALL HAVE BAFFLE IN LAST TANK ONLY.

Concrete Grease Interceptor

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision D-20
DATE APPROVED: MAY 24, 2023
DRAWING No. 47

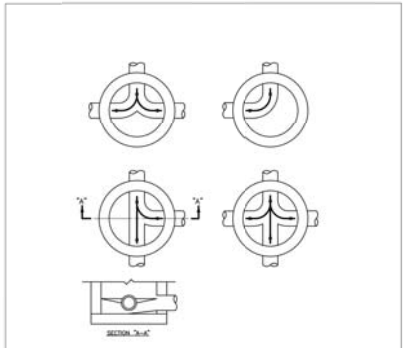


NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. IN GREEN AREAS OR ANY AREA DEEMED TO HAVE QUESTIONABLE DRAINAGE, A WATER TIGHT MANHOLE INSERT SUCH AS "SEWER GUARD" OR APPROVED EQUAL WILL BE REQUIRED.
2. APPROVED MANHOLE DOUBLE COVER TYPES:
   A.) U.S. FOUNDRY MODEL No. 230-AB-W
   B.) VULCAN FOUNDRY MODEL No. VM-101
3. CONCRETE COLLAR IS REQUIRED ONLY WHEN MANHOLE IS OUT OF PAVEMENT.

Manhole Frame and Cover (30" Opening)

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision A-15
DATE APPROVED: MAY 24, 2023
DRAWING No. 50

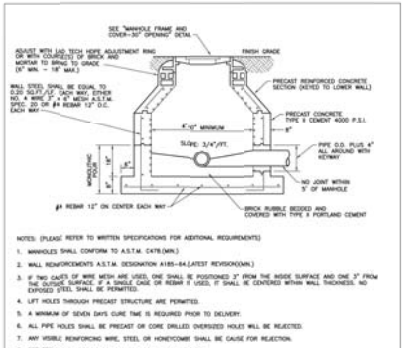


NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. INVERT CHANNELS TO BE CONSTRUCTED FOR SMOOTH FLOW WITH NO OBSTRUCTIONS.
2. SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS PROVIDING FOR SMOOTH FLOWS.
3. CHANNELS FOR FUTURE CONSTRUCTIONS (STUBS) SHALL BE CONSTRUCTED, FILLED WITH SAND, AND COVERED WITH 1" OF MORTAR.
4. SLOPE MANHOLE ITSELF WITH A 1:2 SLOPE FROM MANHOLE WALL TO CHANNEL.
5. INVERT SHALL BE A MINIMUM OF 1/2 THE DIAMETER OF THE LARGEST PIPE OR 4" DEEP, WHICHEVER IS GREATER.

Flow Patterns for Invert Channels

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision B-23
DATE APPROVED: MAY 24, 2023
DRAWING No. 51



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. MANHOLES SHALL CONFORM TO A.S.T.M. C478.(MIN.)
2. WALL REINFORCEMENTS A.S.T.M. DESIGNATION A185-64.(LATEST REVISION)(MIN.)
3. IF TWO CAGES OF WIRE MESH ARE USED, ONE SHALL BE POSITIONED 3" FROM THE INSIDE SURFACE AND ONE 3" FROM THE OUTSIDE SURFACE. IF A SINGLE CAGE OR REBAR IS USED, IT SHALL BE CENTERED WITHIN WALL THICKNESS. NO EXPOSED STEEL SHALL BE PERMITTED.
4. LIFT HOLES THROUGH PRECAST STRUCTURE ARE PERMITTED.
5. A MINIMUM OF SEVEN DAYS CURE TIME IS REQUIRED PRIOR TO DELIVERY.
6. ALL PIPE HOLES SHALL BE PRECAST OR CORE DRILLED OVERSIZED HOLES WILL BE REJECTED.
7. ANY VISIBLE REINFORCING WIRE, STEEL OR HONEYCOMBE SHALL BE CAUSE FOR REJECTION.
8. SEE TECHNICAL SPECIFICATIONS FOR BEDDING REQUIREMENTS.
9. "RAM-NEK" OR APPROVED EQUAL AT ALL RISER JOINTS (1/2" THICK WITH WIDTH AT LEAST 1/2 THE WALL THICKNESS) WITH GROUT ON INSIDE AND OUTSIDE.
10. ALL OPENINGS SHALL BE SEALED USING ONLY TYPE II PORTLAND CEMENT/SAND MORTAR AND POTABLE WATER FOR MUD WORK ON JOINTS, LIFTING HOLES, INVERTS, ETC. WHEN AN ACCELERATOR IS NECESSARY, "ANTI HYDRO" IS THE ONLY PRODUCT APPROVED.
11. BRICK MASONRY CONSTRUCTION TO BE STUCCOED WITH 3/4" TYPE II CEMENT INSIDE AND OUTSIDE, AND INSIDE TO BE COATED WITH TWO COATS OF KOPPERS 300 OR APPROVED EQUAL.
12. A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT EFFLUENT INTO FLOW STREAM, AND COATED WITH TWO COATS OF KOPPERS 300 OR APPROVED EQUAL.
13. INTERIOR OF ALL SANITARY MANHOLES SHALL HAVE AGRU SURE GRIP CONCRETE PROTECTIVE LINER INSTALLED AT THE TIME OF MANUFACTURING. SEE "AGRU SURE GRIP LINER DETAILS" DRAWING FOR ADDITIONAL AGRU SURE GRIP REQUIREMENTS.

Standard Precast Manhole

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision B-18
DATE APPROVED: MAY 24, 2023
DRAWING No. 52

ERIK R. COOPER
LICENSE
No 56934
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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Authorization # 3153 | 561.478.2848

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E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
WATER AND WASTEWATER DETAILS

JOB NO. 19-038
SHEET 27 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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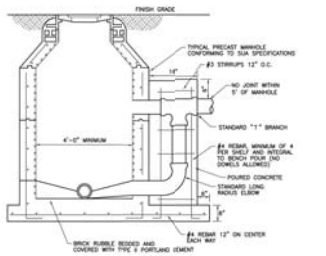

NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. CONCRETE ENCASEMENT FOR DROP CONNECTION TO BE FIELD POURED.
2. DROP CONNECTIONS SHALL BE REQUIRED WHENEVER AN INFLUENT SEWER IS LOCATED TWO (2) FEET OR MORE ABOVE THE MAIN INVERT CHANNEL.
3. A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT INFLUENT INTO FLOW STREAM.
4. WHEN PVC IS USED IN SANITARY SEWER LINES, SOLVENT TYPE JOINT PVC FITTINGS MAY BE UTILIZED IN THE DROP ASSEMBLY ONLY.
5. MINIMUM PIPE SIZE FOR DROP IS 8".
6. SEE "STANDARD PRECAST MANHOLE" DETAIL FOR ADDITIONAL REQUIREMENTS.

Precast Manhole - Drop Connection Type A

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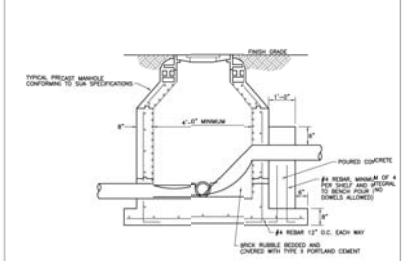
CONSTRUCTION STANDARDS AND DETAILS
Revision A-15
DATE APPROVED: MAY 24, 2023
DRAWING No. 53



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. INSIDE DROP TO BE USED WHEN DROP IS GREATER THAN 6 INCHES AND LESS THAN 24 INCHES.
2. A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT INFLUENT INTO FLOW STREAM.
3. CONSTRUCTION OF DROP SHALL PROVIDE AN OVERSIZED SLAB TO EXTEND UNDER THE DROP CONNECTION.
4. MINIMUM PIPE SIZE FOR DROP IS 8".
5. SEE "STANDARD PRECAST MANHOLE" DETAIL FOR ADDITIONAL REQUIREMENT.

Precast Manhole - Drop Connection Type B

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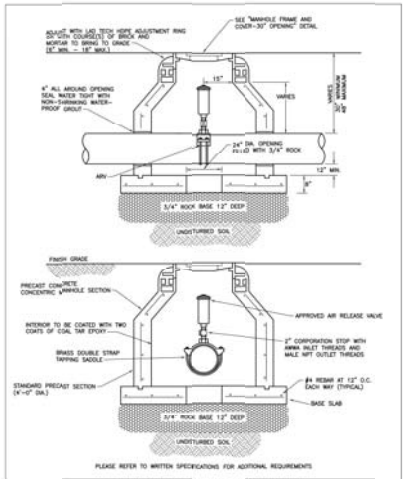
CONSTRUCTION STANDARDS AND DETAILS
Revision A-15
DATE APPROVED: MAY 24, 2023
DRAWING No. 54



PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

Air Release Valve (Underground Force Main)

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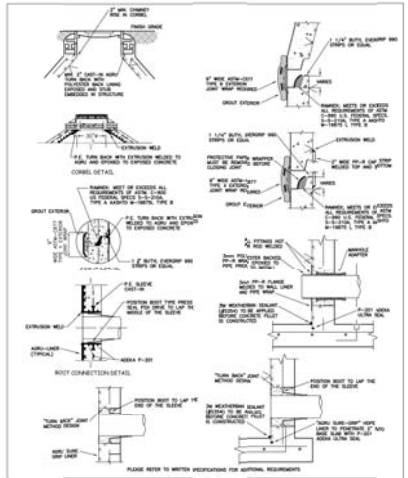
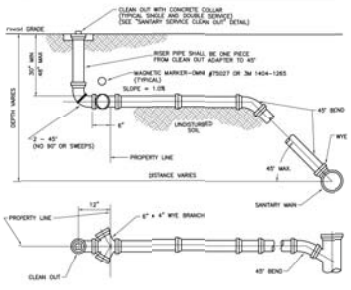
CONSTRUCTION STANDARDS AND DETAILS
Revision E-23
DATE APPROVED: MAY 24, 2023
DRAWING No. 55



PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

Agru Sure Grip Liner Details

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision C-20
DATE APPROVED: MAY 24, 2023
DRAWING No. 56

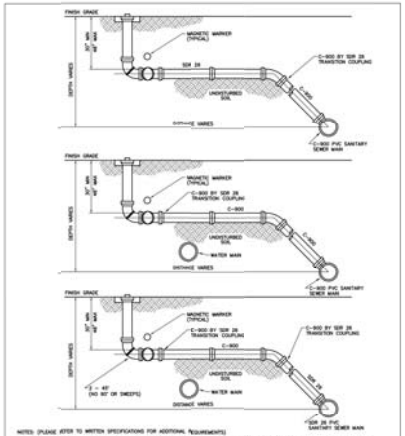


NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. THE END OF EACH SERVICE CONNECTION SHALL BE MARKED WITH A 2" x 2" TREATED WOOD STAKE AND AN E.M.S. SANITARY SEWER MARKER.
2. EACH SERVICE CONNECTION SHALL BE PLUGGED WATERTIGHT WITH AN APPROVED CAP OR PLUG.
3. CUT OFF BELL END WHEN USING FERNCO COUPLING FOR VCP (FOR EXISTING SERVICES ONLY)
4. FOR PVC INSTALLATIONS, CONNECT TO EXISTING "BELL END" AND CONNECT OPPOSITE END WITH PVC TO PVC KNOCK OV SLEEVE.
5. SOLIDLY TAMP BACKFILL AT LEAST ONE FOOT ABOVE TOP OF PIPE. SERVICES UNDER PAVED AREAS SHALL BE BACKFILLED TO THE SAME SPECIFICATIONS AS SHOWN ON "PAVEMENT REPLACEMENT" DETAIL.
6. CONTRACTOR SHALL MARK ON A CLEAN SET OF PLANS THE FINAL STATIONING OR DISTANCE AND DIRECTION FROM MANHOLE TO EACH SERVICE LATERAL AND GIVE TO ENGINEER FOR RECORD DRAWING PURPOSES.
7. ANY DEVIATION FROM THESE METHODS MUST BE APPROVED BY SUA.
8. THE USE OF UNNECESSARY FITTINGS ON THE CUSTOMERS LINE TO REDUCE EXCAVATION EFFORTS WILL BE CAUSE FOR REJECTION.
9. THE USE OF 90° SWEEPS ON THE CUSTOMERS LINE IN LIEU OF 45° BENDS WILL REQUIRE AN ADDITIONAL CLEAN OUT AS SHOWN ON "SANITARY SERVICE CLEAN OUT DETAIL". THE CLEAN OUT SHALL BE ON THE HOUSE SIDE OF THE TOP SWEEP WITHIN 2' OF THE SWEEP.

Sewer Service Connection (Wye Branch)

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision B-20
DATE APPROVED: MAY 24, 2023
DRAWING No. 57



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

SEWER SERVICE LATERALS SHALL CROSS UNDER WATER MAINS WITH A MINIMUM VERTICAL SEPARATION OF TWELVE (12) INCHES. IF 12" VERTICAL SEPARATION CANNOT BE MAINTAINED, THEN THE WATER MAIN SHALL BE D.I.P. AND THE SEWER SERVICE LATERAL SHALL BE C-900 SDR 18 OR BETTER AND THE MINIMUM SEPARATION SHALL BE SIX (6) INCHES. WHEN IT IS NOT POSSIBLE FOR THE WATER MAIN TO CROSS OVER THE SEWER SERVICE LATERAL A MINIMUM VERTICAL SEPARATION OF AT LEAST TWELVE (12) INCHES MUST BE MAINTAINED, THE WATER MAIN SHALL BE D.I.P. AND THE SEWER LATERAL SHALL BE C-900 SDR 18 OR BETTER.

C-900 Sewer Service Transition

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision C-20
DATE APPROVED: MAY 24, 2023
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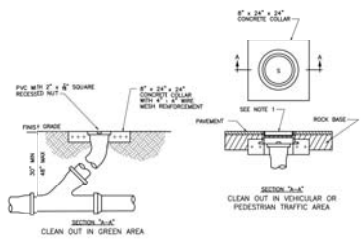

NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. U.S. FOUNDRY NO. 7821 REVERSIBLE HANDHOLE RING AND COVER OR APPROVED EQUAL SHALL BE USED. COVER TO BE CAST WITH "S" IN THE CENTER.
2. CLEAN OUT REQUIRED ON ALL SERVICES AT PROPERTY LINE OR EASEMENT LINE WHERE APPLICABLE.
3. STANDARD WYE SHALL BE USED AT CLEAN OUT.

Sanitary Service Clean Out

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision C-20
DATE APPROVED: MAY 24, 2023
DRAWING No. 59

ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Authorization # 3153 | 561.478.2848

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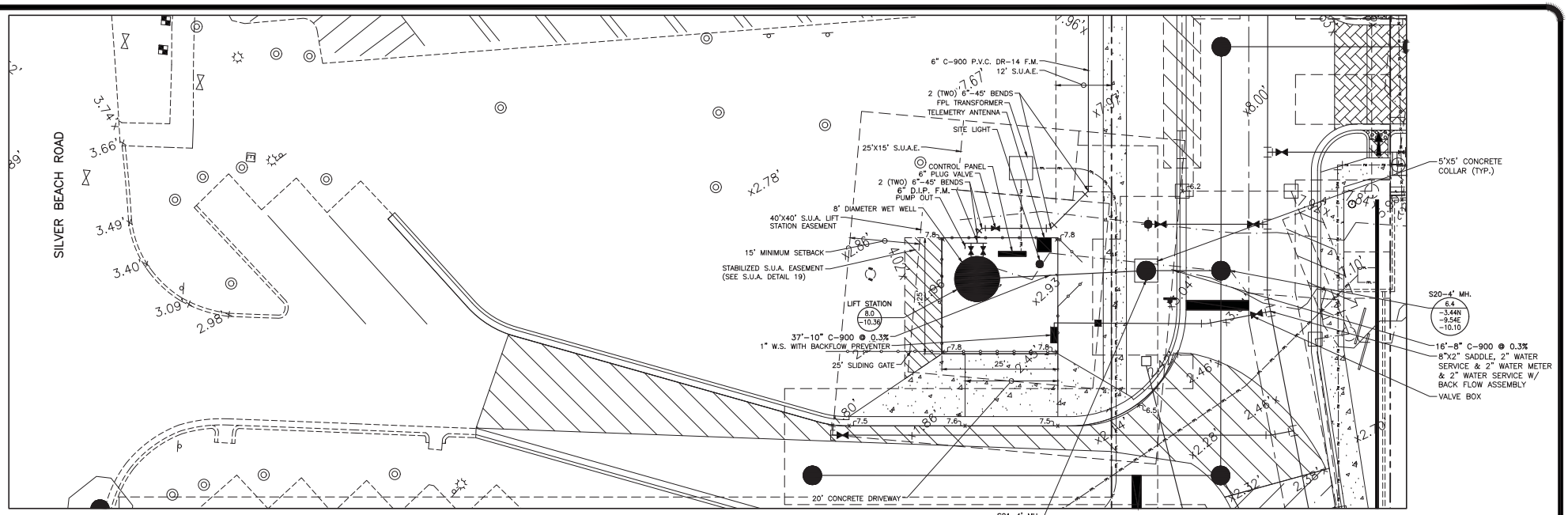
E.C.	C.O.			

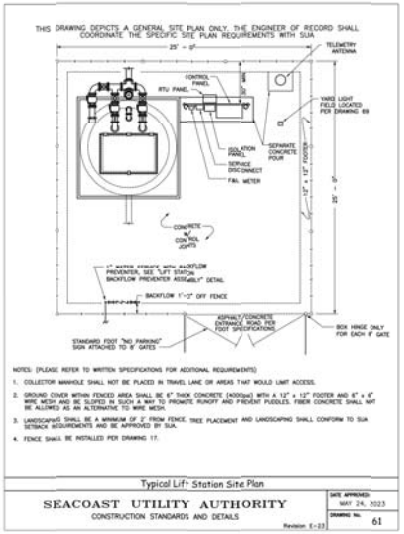
NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
WATER AND WASTEWATER DETAILS

JOB NO. 19-038
SHEET 28 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025



PROPOSED LIFT STATION SITE PLAN 2



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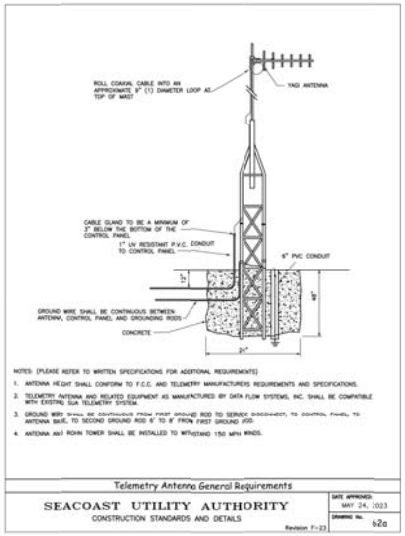

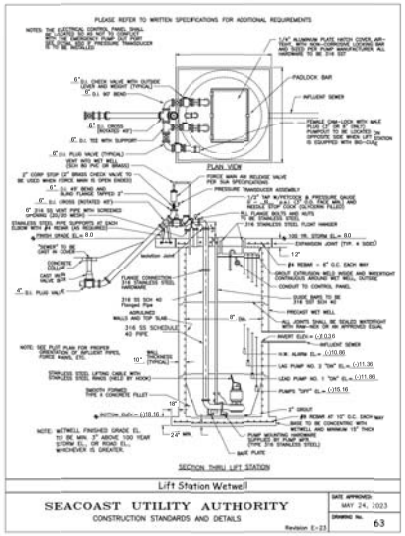

2

N

10 5 0 10 20

SCALE IN FEET
1"=10'

PUMP
FLYGT NP 3171 SH3-277 35HP, 460V
3 PHASE IMPELLER 180 MIN., 3,520
R.P.M. FROM CALCS: 310.2 G.P.M. @
147.5 FT. T.D.H. DUTY POINT: 320
G.P.M. @ 157 FT SOFT STARTER

SECONDARY POUR
18"X37" OVER LIP

ERIK R. COOPER
LICENSE
No 56934
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ERIK R. COOPER, P.E. ON 12/23/2024.

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3.) REVISED MH. RIMS AND INVERTS REV 4, 11/11/24 C.O.
2 PERMIT REVISIONS 2, 06/02/23 C.O.
REVISED PER S.U.A., 06/15/23 C.O.
1.) REVISED LIFT STATION LAYOUT/SITE PLAN & REVISED LIFT STATION PUMPS AND WET WELL PER S.U.A. COMMENTS, 8/25/22 C.O.

REVISIONS

SIMMONS & WHITE
3595 Metrocentre Blvd West, Ste 3 · West Palm Beach, FL 33407
Authorization # 3153 · 561.478.2848

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E.C.	C.O.			

NAUTILUS 220
SECTION 21, TOWNSHIP 42S., RANGE 43E.
TOWN OF LAKE PARK, FLORIDA
LIFT STATION PLAN

JOB NO. 19-038

SHEET 29 OF 30

TOWN OF LAKE PARK
BUILDING DIVISION
REVIEWED FOR CODE COMPLIANCE
03/19/2025

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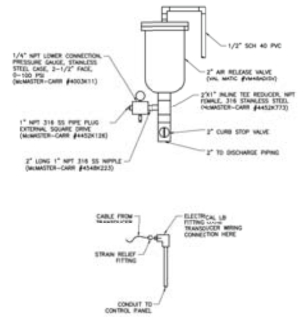
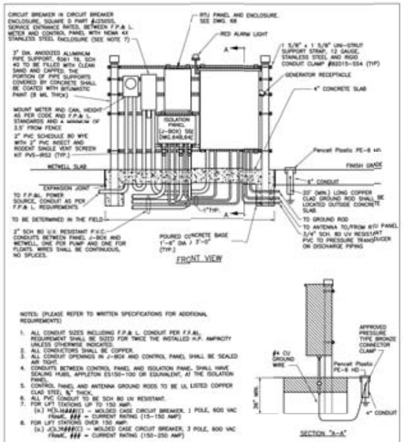


NOTES:

1. WIKA PART NUMBER 52631470 WITH THE FOLLOWING ATTRIBUTES:
   MODEL S-20 PRESSURE TRANSMITTER
   0-100 PSIG RANGE
   4-20 mA OUTPUT
   1/4" NPT CONDUIT MALE, WITH CABLE OUTLET

Pressure Transducer

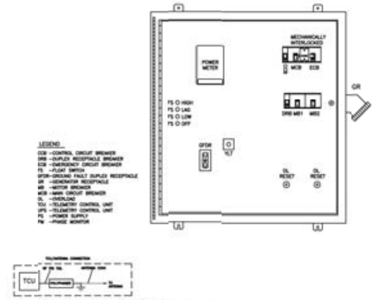
SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision E-23 | DATE APPROVED: MAY 24, 2023 | DRAWING No. 64



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

Lift Station Control Panel (Single Door)

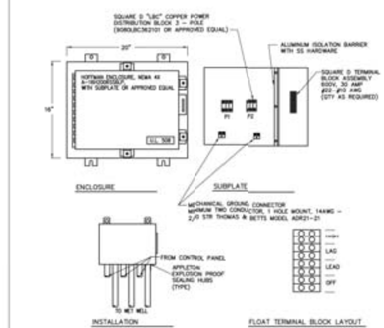
SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision E-23 | DATE APPROVED: MAY 24, 2023 | DRAWING No. 65a



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

Lift Station Control Panel Dead Front Layout

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision D-23 | DATE APPROVED: MAY 24, 2023 | DRAWING No. 65c



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. SHOWN FOR GENERAL ARRANGEMENT PROVIDE EQUIPMENT AS INDICATED PER NUMBER OF PUMPS.
2. JUNCTION BOX SHALL BE PROVIDED BY THE SAME MANUFACTURER AS THE CONTROL PANEL AND SHALL BE U.L. 508 LISTED.
3. ALL CONTROL CABLES SHALL HAVE A SERVICE LOOP WITHIN J BOX AND CONTROL PANEL.
4. JUNCTION BOX ENCLOSURE SHALL BE NEMA 4X AND MINIMUM 16"H x 20"W x 6"D.

Duplex Lift Station Control Panel J-Box

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision E-23 | DATE APPROVED: MAY 24, 2023 | DRAWING No. 66a

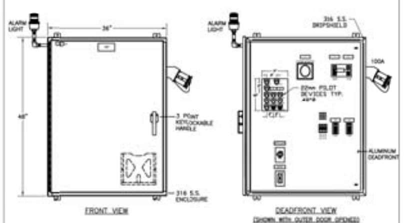
PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

LEGEND	NOMENCLATURE	MANUFACTURER		PART NUMBER
AL	ALARM LIGHT	FEDERAL SIGNAL		LP3P-120R
CB1, CB2		SQUARE D		HDL36###-AA
CCB	CONTROL BREAKER	SQUARE D	(X)	720 QOU1 #H
CR	CONTROL RELAY	SQUARE D		RUMC32F7
CT1-CT3	SOLID CORE CURRENT TRANSFORMER	WESCHLER		25FT-101
DR	DUPLEX RECEPTACLE (GFI)	HUBBELL		GF7815SNAPWNA
DR	DOOR SWITCH	SQUARE D		9007 AP221
ECB	EMERGENCY BREAKER	SQUARE D	(X)	THERMAL MAGNETIC MOLDED CASE H FRAME
FB 1	FUSE X3	BUSSMAN-KTK		1 AMP WITH 600V FUSE BLOCKS
FB 2	FUSE X2	BUSSMAN-KTK		10 AMP WITH 600V FUSE BLOCKS
FB 2	FUSE	BUSSMAN-KTK		20 AMP WITH 250V FUSE BLOCK
F1 - F3	FUSE	BUSSMAN-MDL		1 AMP WITH 250V FUSE BLOCK
FS	FLOAT SWITCH	ANCHOR SCIENTIFIC		ROTO-FLOAT
GR 1	GENERATOR RECEPTACLE 100 AMP	APPLETON	(X)	ADR1034RS W/SPRING DOOR
GR 2	GENERATOR RECEPTACLE 200 AMP	APPLETON	(X)	AR20034RS
LA	LIGHTNING ARRESTOR	DELTA		LA303 (250V) OR LA603 (480V)
MB	MOTOR BREAKER	SQUARE D	(X)	THERMAL MAGNETIC MOLDED CASE WITH AUX CONTACT H FRAME
MCB	MAIN BREAKER	SQUARE D	(X)	THERMAL MAGNETIC MOLDED CASE H FRAME
M	MOTOR STARTER	SQUARE D	(X)	8536 SERIES
OL	OVERLOADS	SQUARE D	(X)	MELTING ALLOY WITH SO-4 AUX CONTACT
PLC	MEMORY MODULE	MICROLOGIX		1440
PM	PHASE MONITOR	DIVERSIFIED		SLA-XXX-ALE
SA	SURGE ARRESTOR	SQUARE D		SDSA3650
T1	CONTROL TRANSFORMER 480/120V	SQUARD D OR HEAVY DUTY		2000 VA
TB	TERMINAL BOARD	MARATHON		200 SERIES
GL	GROUND LUG-2 CONDUCTOR	THOMAS & BETTS		ADR 21-21
GL	GROUND LUG-SINGLE CONDUCTOR	THOMAS & BETTS		ADR 21
TCV	TCV SNAP-IN KIT	DATA FLOW SYSTEMS	(X)	DFS-00382-008-09
PP	POLYPHASER	DATA FLOW SYSTEMS	(X)	DFS-00392-008-01
GR1A	ANGLE ADAPTER	APPLETON	(X)	AJA100
GR2A	ANGLE ADAPTER	APPLETON	(X)	AJA200

NOTE: EQUIVALENT MAY BE USED EXCEPT WHERE MARKED BY (X)

Lift Station Control Panel Material List

SEACOAST UTILITY AUTHORITY
CONSTRUCTION STANDARDS AND DETAILS
Revision C-23 | DATE APPROVED: MAY 24, 2023 | DRAWING No. 67c



NOTES:

ALL CONTROL WIRING WITHIN CONTROL CABINET TO BE #14 THHN CU. UNLESS OTHERWISE NOTED

WIRE ENDS WITHIN CABINET TO BE IDENTIFIED WITH HEAT SHRINK WIRE MARKERS.

ALL WIRES EXTERNAL TO CONTROL CABINET TO BE TERMINATED TO A TERMINAL

Duplex Lift Station Control Panel - 480V/3PH 20HP and up

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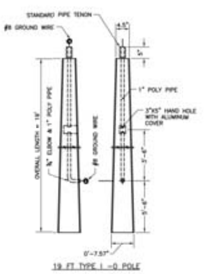
CONSTRUCTION STANDARDS AND DETAILS
Revision A-23 | DATE APPROVED: MAY 24, 2023 | DRAWING No. 68a

SITE LIGHT

SPEC. LIGHTING FIXTURES TO BE KIM LIGHTING THE ARCHETYPE SERIES



19 FT TYPE I -0 POLE

LENGTH OF POLE	19 FT			
EMBEDMENT SPECIFIED	7 FT			
HEIGHT ABOVE GROUND	12 FT			
WEIGHT	808 LBS			
WIND VELOCITY (MPH)	150	160	170	180
MAXIMUM EPA* (SQ FT)				

ABOVE EMBEDMENT SHOWN IN SAND. OTHER EMBEDMENT DEPTH MAY BE REQUIRED FOR OTHER SOIL CONDITION.

STANDARD PIPE TENON SIZE	
NOMINAL DIAMETER (IN)	OUTSIDE DIAMETER (IN)
2"	2 3/8"

Lift Station Yard Light

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CONSTRUCTION STANDARDS AND DETAILS
Revision C-23 | DATE APPROVED: MAY 24, 2023 | DRAWING No. 69

ERIK R. COOPER LICENSE No 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

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1 PERMIT REVISIONS 2, 06/02/23 C.O.

REVISIONS

SIMMONS & WHITE
2581 Metrocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3452 | 561.478.7848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	C.O.			

NAUTILUS 220
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TOWN OF LAKE PARK, FLORIDA
LIFT STATION DETAILS

JOB NO. 19-038 | SHEET 30 OF 30

TOWN OF LAKE PARK
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03/19/2025

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