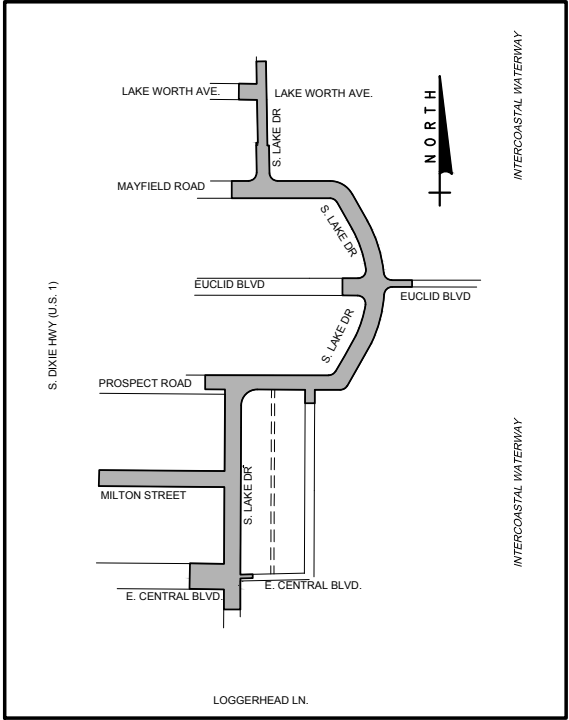


# TOWN OF LANTANA SOUTH LAKE DRIVE FORCE MAIN REPLACEMENT

PERMITTING  
OCTOBER 4, 2018



SECTION 03, TOWNSHIP 45 SOUTH, RANGE 43 EAST

**LOCATION MAP**  
NTS



## TOWN COUNCIL

|                              |   |                        |
|------------------------------|---|------------------------|
| MAYOR                        | — | DAVID J. STEWART       |
| VICE MAYOR                   | — | LYNN MOORHOUSE, D.D.S. |
| VICE MAYOR PRO TEM           | — | EDWARD PAUL SHROPSHIRE |
| COUNCIL MEMBER               | — | PHILIP ARIDAS          |
| COUNCIL MEMBER               | — | MALCOLM BALFOUR        |
| TOWN MANAGER                 | — | DEBORAH MANZO          |
| DIRECTOR OF OPERATIONS       | — | LINDA BRIEN            |
| ASSISTANT UTILITIES DIRECTOR | — | JERRY DARR             |

## DRAWING LIST

| SHEET          | DRAWING | TITLE                                                                              |
|----------------|---------|------------------------------------------------------------------------------------|
| <b>GENERAL</b> |         |                                                                                    |
| 1              | G-1     | TITLE SHEET, LOCATION MAP AND DRAWING LIST                                         |
| 2              | G-2     | SYMBOLS, LEGEND, SURVEY NOTES, HORIZONTAL                                          |
| 3              | G-3     | CONTROL DETAIL AND SITE BENCHMARKS<br>GENERAL NOTES, INFORMATION AND KEY MAP       |
| <b>CIVIL</b>   |         |                                                                                    |
| 4              | C-1     | SOUTH LAKE DRIVE PLAN AND PROFILE — SHEET 1<br>STATION 300+00 TO STATION 303+20    |
| 5              | C-2     | SOUTH LAKE DRIVE PLAN AND PROFILE — SHEET 2<br>STATION 303+20 TO STATION 306+96.07 |
| 6              | C-3     | SOUTH LAKE DRIVE PLAN AND PROFILE — SHEET 3<br>STATION 36+00 TO STATION 40+20      |
| 7              | C-4     | SOUTH LAKE DRIVE PLAN AND PROFILE — SHEET 4<br>STATION 40+20 TO STATION 44+20      |
| 8              | C-5     | SOUTH LAKE DRIVE PLAN AND PROFILE — SHEET 5<br>STATION 44+20 TO STATION 46+80      |
| 9              | C-6     | SOUTH LAKE DRIVE PLAN AND PROFILE — SHEET 6<br>STATION 46+80 TO STATION 50+00      |
| 10             | C-7     | SOUTH LAKE DRIVE PLAN AND PROFILE — SHEET 7<br>STATION 500+00 TO STATION 504+00    |
| 11             | C-8     | MILTON STREET PLAN AND PROFILE — SHEET 8<br>STATION 100+00 TO STATION 103+74.60    |
| <b>DETAILS</b> |         |                                                                                    |
| 12             | D-1     | STANDARD DETAILS — SHEET 1 OF 4                                                    |
| 13             | D-2     | STANDARD DETAILS — SHEET 2 OF 4                                                    |
| 14             | D-3     | STANDARD DETAILS — SHEET 3 OF 4                                                    |
| 15             | D-4     | STANDARD DETAILS — SHEET 4 OF 4                                                    |

FOR INFORMATION REGARDING THIS PROJECT, CONTACT:

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DAVID L. MATHEWS, P.E.  
No. 48242

TITLE SHEET, LOCATION  
MAP AND DRAWING LIST

SHEET: 1 of 15

DRAWING: G-1

SURVEYOR'S REPORT

TYPE OF SURVEY:

TOPOGRAPHIC SURVEY  
SOUTH LAKE DRIVE, TOWN OF LANTANA, PALM BEACH COUNTY, FLORIDA

SURVEY PREPARED BY:

COMPASS POINT SURVEYORS, PL., 3195 NORTH POWERLINE ROAD, STREET SUITE #112, POMPAÑO BEACH, FLORIDA 33069, OFFICE: 954-332-8181

MAP OF SURVEY:

THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER.  
SEE MAP OF SURVEY SHEET 01 OF 08 THRU SHEET 08 OF 08.

LEGAL DESCRIPTION:  
NOT APPLICABLE.

ACCURACY:

1. ALL MEASUREMENTS, DISTANCES, ELEVATIONS AND FEATURES WERE PERFORMED IN STRICT ACCORDANCE WITH THE STANDARDS OF PRACTICE SET FORTH IN CHAPTER 5J-17 FLORIDA ADMINISTRATIVE CODE.

2. METHODS FOR ALL CONTROL MEASUREMENTS WERE MADE WITH A TRANSIT AND STEEL TAPE, OR DEVICES WITH EQUIVALENT OR HIGHER DEGREES OF ACCURACY.

3. THE ACCURACY STANDARD USED FOR THIS SURVEY, AS CLASSIFIED IN THE STANDARDS PRACTICE 5J-17 F.A.C., IS "COMMERCIAL HIGH RISK". THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF SURVEY IS 1 FOOT IN 10,000 FEET. THIS SURVEY IS BASED ON REPETITIVE RTK GPS AND ROBOTIC TOTAL STATION OBSERVATIONS ON MULTIPLE PROJECT HORIZONTAL AND VERTICAL CONTROL POINTS TO OBTAIN A REDUNDANCY OF MEASUREMENT. HORIZONTAL AND VERTICAL CLOSURE ACHIEVED, EXCEED THE MINIMUM ACCURACY REQUIREMENTS FOR THIS SURVEY.

DATA SOURCES:

1. THE FOLLOWING PLATS, ALL OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA, WERE UTILIZED IN THE PREPARATION OF THIS SURVEY.

2. PLAT BOOK 5, PAGE 13; "PINWOOD PARK ADD"; PLAT BOOK 9, PAGE 48, "LAKESIDE POINT"; PLAT BOOK 9, PAGE 64, "LAKESIDE POINT ADDITION TO LANTANA"; PLAT BOOK 13, PAGE 25, "GREYNOLDS HIGHLANDS No.1" AND PLAT BOOK 23, PAGES 191, "LAKE COVE".

3. MULTIREOLUTION SEAMLESS IMAGES (MRSID), DOWNLOADED FROM LAND BOUNDARY INFORMATION SYSTEM (LABINS) WWW.LABINS.ORG, WERE UTILIZED IN THE PREPARATION OF THIS SURVEY.

4. GEOGRAPHIC INFORMATION SYSTEM (GIS) IMAGES DOWNLOADED FROM PALM BEACH COUNTY PROPERTY APPRAISER (PBCPA) <http://www.co.palm-beach.fl.us/papa/> WERE UTILIZED IN THE PREPARATION OF THIS SURVEY.

5. ELEVATIONS SHOWN HEREON ARE IN FEET AND REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29). BENCHMARKS OF ORIGIN: PALM BEACH COUNTY BENCHMARK "J 402". BENCHMARK "J 402" IS A NATIONAL GEODETIC SURVEY STAINLESS STEEL ROD IN A SLEEVE ENCASED IN A PIPE FLUSH WITH THE GROUND AND STAMPED "J 402". AT THE INTERSECTION OF THE FLORIDA EAST COAST RAILROAD AND OCEAN AVENUE, 1 FOOT NORTH OF A WITNESS POST. ELEVATION ~ 7.00 (NAVD88) AND 8.51 (NGVD29). "NAVD88" REFERS TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.

6. BEARINGS AND COORDINATES SHOWN HERE ON AND ON THE MAP OF SURVEY ARE IN FEET AND REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE, NATIONAL GEODETIC SURVEY (NGS) NORTH AMERICAN DATUM (NAD) OF 1983/1990, UTILIZING THE LENGEMAN GPS RTK NETWORK. PARENT CONTROL STATION: BEARINGS BASED ON A BEARING OF SOUTH 33°04'15" EAST BETWEEN PALM BEACH COUNTY HORIZONTAL CONTROL MONUMENTS "JUDGE" AND "FOCEAN". [SEE SHEET 02 OF 08 FOR GRAPHICAL DEPICTION]

7. BY GRAPHIC PLOTTING ONLY, THE SUBJECT PROPERTY LIES WITHIN ZONE A7, AS SHOWN ON THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 120214 0001 C, MAP REVISED: OCTOBER 15, 1982.

8. ALL SUBSURFACE LOCATIONS DEPICTED HEREON ARE AS MARKED OUT IN THE FIELD BY OTHERS, UNDER "SUNSHINE STATE ONE CALL" TICKET NUMBERS 095602511 AND 145600257. COMPASS POINT SURVEYORS, PL ASSUMES NO LIABILITY AS TO THE ACCURACY OF THE SUBSURFACE LOCATIONS AS MARKED OUT BY OTHERS.

LIMITATIONS:

1. PURPOSE OF SURVEY: LOCATE SELECTED NATURAL AND ARTIFICIAL FEATURES OF A PART OF THE EARTH'S SURFACE TO DETERMINE HORIZONTAL AND VERTICAL SPATIAL RELATIONS TO BE UTILIZED FOR THE PURPOSE OF DESIGN. SURVEY LIMITS ESTABLISHED BY CLIENT AND DO NOT CORRESPOND WITH BOUNDARY OR RIGHT-OF-WAY LINES.

2. LAST FIELD DATE OF SURVEY: 06/11/16, AS REFERENCED IN FIELD BOOK 289, PAGE 49.

3. THIS IS NOT A BOUNDARY SURVEY. NO LIMITS OF OWNERSHIP OR RIGHTS-OF-WAY HAVE BEEN ESTABLISHED IN THE FIELD. NO TITLE OPINIONS OR ABSTRACTS HAVE BEEN PROVIDED TO OUR OFFICE. LINES SHOWN HEREON ARE FOR GRAPHICAL PURPOSES ONLY AND MAY VARY FROM ACTUAL OCCUPATION LIMITS ON THE GROUND. BOUNDARY MONUMENTATION HAS NEITHER BEEN RECOVERED NOR SET IN THE CONDUCT OF THIS SURVEY.

4. PRINTED DIMENSIONS SHOWN HEREON SUPERSEDE SCALED DIMENSIONS. ITEMS AND SYMBOLS SHOWN MAYBE BE DRAWN OUT OF SCALE FOR PURPOSES OF CLARITY.

5. USE OF THIS SURVEY BY ANYONE OTHER THAN THOSE PREPARED FOR OR CERTIFIED TO, WILL BE THE RE-USERS SOLE RISK WITHOUT LIABILITY TO THE SURVEYOR.

6. SHOWN ANYWHERE ON THIS SURVEY, THE WORD "CERTIFY" IS UNDERSTOOD TO BE AN EXPRESSION OF A PROFESSIONAL OPINION BASED UPON THE SURVEYOR'S BEST KNOWLEDGE, INFORMATION AND BELIEF, AND THAT IT CONSTITUTES NEITHER A GUARANTEE NOR A WARRANTY.

PREPARED FOR AND CERTIFIED TO:

MATHEWS CONSULTING, INC.  
477 S. ROSEMARY AVE., SUITE 330  
WEST PALM BEACH, FL 33401  
TEL: (561) 655-6175

SURVEYOR AND MAPPER IN RESPONSIBLE CHARGE:

SCOTT A. REID  
PROFESSIONAL SURVEYOR AND MAPPER  
LICENSE NUMBER LS 6528  
STATE OF FLORIDA  
TEL: (954) 332-8181

SURVEY LEGEND:

|      |                                     |        |                                      |       |                            |
|------|-------------------------------------|--------|--------------------------------------|-------|----------------------------|
| ASPH | ASPHALT                             | FDOT   | FLORIDA DEPARTMENT OF TRANSPORTATION | PRM   | PERMANENT REFERENCE MARKER |
| A.E  | ANCHOR EASEMENT                     | FPL    | FLORIDA POWER AND LIGHT              | PVC   | POLYVINYL CHLORIDE         |
| A.P. | ASPHALT PATCH                       | FF     | FINISH FLOOR ELEVATION               | R     | RADIUS                     |
| BPP  | BLACK PLASTIC PIPE                  | FND    | FOUND                                | R/C   | ROD AND CAP                |
| BST  | BELLSOUTH TELEPHONE                 | FM     | FORCE MAIN                           | RCP   | REINFORCED CONCRETE PIPE   |
| C/L  | CENTERLINE                          | HH     | HAND HOLE                            | R/W   | RIGHT OF WAY               |
| C    | CALCULATED                          | HDPE   | HIGH DENSITY POLYETHYLENE            | RWM   | RIGHT OF WAY MAP           |
| CLF  | CHAIN LINK FENCE                    | INV    | INVERT                               | RLS   | REGISTERED LAND SURVEYOR   |
| CLP  | CONCRETE LIGHT POLE                 | IRC    | IRON ROD & CAP                       | STA   | STATION                    |
| CMP  | CORRUGATED METAL PIPE               | L      | LENGTH                               | SWK   | CONCRETE SIDEWALK          |
| CMU  | CONCRETE MASONRY UNIT               | LF     | LINEAR FEET                          | SWL   | SWALED                     |
| CONC | CONCRETE                            | LSA    | LANDSCAPE AREA                       | TOB   | TOP OF BANK                |
| CP   | CONCRETE PIPE                       | MP     | METAL PIPE                           | TOS   | TOE OF SLOPE               |
| D    | CENTRAL ANGLE                       | N/A    | NOT ACCESSIBLE                       | T.O.N | TOP OF NUT                 |
| D.E  | DRAINAGE EASEMENT                   | N/D    | NAIL AND DISK                        | T.O.P | TOP OF PIPE                |
| DIP  | DUCTILE IRON PIPE                   | OHL    | OVERHEAD LINE                        | T.O.W | TOP OF WALL                |
| DEP  | DEPRESSED (CURB)                    | O.R.P. | OFFICIAL RECORD BOOK                 | TYP   | TYPICAL                    |
| EL   | ELEVATION                           | P.B.   | PLAT BOOK                            | U.E   | UTILITY EASEMENT           |
| EP   | EDGE OF PAVEMENT                    | P.E    | PLANTING EASEMENT                    | UNK   | UNKNOWN                    |
| ERCP | ELLIPTICAL REINFORCED CONCRETE PIPE | PG     | PAGE                                 | VERT  | VERTICAL                   |
| ESMT | EASEMENT                            | PP     | PLASTIC PIPE                         | V.G   | VALLEY GUTTER              |
|      |                                     | PK     | PARKER-KALON BRAND                   | VCP   | VITRIFIED CLAY PIPE        |
|      |                                     |        |                                      | WPP   | WOOD POWER POLE            |

SURVEY SYMBOL LEGEND:

|  |                          |  |                             |
|--|--------------------------|--|-----------------------------|
|  | DIAMETER                 |  | AIR RELEASE VALVE           |
|  | ELECTRIC OUTLET          |  | COMMUNICATION MANHOLE       |
|  | BACK FLOW PREVENTER      |  | ELECTRICAL MANHOLE          |
|  | WATER METER              |  | UNKNOWN TYPE MANHOLE        |
|  | IRRIGATION VALVE         |  | DECORATIVE MAILBOX          |
|  | SANITARY VALVE           |  | SANITARY MANHOLE            |
|  | WATER VALVE              |  | STORM MANHOLE               |
|  | SPIGOT                   |  | LIMITS OF LANDSCAPING       |
|  | SIGN                     |  | LIMITS OF TREE CANOPY       |
|  | OVERHEAD UTILITY WIRE    |  | BUSH/HEDGE                  |
|  | EXISTING ELEVATION       |  | CLEAN OUT                   |
|  | FIRE HYDRANT             |  | GUY WIRE ANCHOR             |
|  | FIRE DEPT. CONNECTION    |  | SITE BENCHMARK              |
|  | WOOD UTILITY POLE        |  | RIGHT-OF-WAY LINE           |
|  | CONCRETE POWER POLE      |  | LANDSCAPE AREA              |
|  | GROUND LIGHT             |  | CENTERLINE OF SWALE         |
|  | WOOD POLE STREET LIGHT   |  | BURIED COMMUNICATION        |
|  | CONC POLE STREET LIGHT   |  | BURIED SANITARY PIPE        |
|  | METAL POLE STREET LIGHT  |  | BURIED WATER MAIN           |
|  | FIBER OPTIC MARKER       |  | BURIED ELECTRICAL           |
|  | ELECTRIC METER           |  | EASEMENT LINE               |
|  | ELECTRIC HANDHOLD        |  | DECORATIVE LIGHT POST       |
|  | UNKNOWN HANDHOLD         |  | CONCRETE LIGHT POST         |
|  | CABLE/TV HANDHOLD        |  | GAS LID                     |
|  | ELECTRIC BOX             |  | TRAFFIC SIGNAL BOX          |
|  | IRRIGATION CONTROL VALVE |  | FIBER OPTIC HANDHOLE        |
|  | IN CONC. BOX             |  | UNDERGROUND GAS MARKER      |
|  | PARKING METER            |  | YARD DRAIN                  |
|  | RECLAIMED WATER VALVE    |  | SQUARE YARD DRAIN           |
|  | KEY PAD                  |  | COMMUNICATION PEDESTAL      |
|  | ELECTRIC TRANSFORMER     |  | FLAG POLE                   |
|  | CURB INLET               |  | ROCK                        |
|  | WOOD POST                |  | DOUBLE DETECTOR CHECK VALVE |
|  | TELEPHONE PULLBOX        |  | ELECTRICAL PULLBOX          |
|  | FOUND NAIL & DISK        |  |                             |
|  | FOUND DRILL HOLE         |  |                             |
|  | FOUND X-CUT              |  |                             |
|  | TELEPHONE MARKER         |  |                             |

SURVEY TREE LEGEND:

|     |                |                                                                                                                   |               |     |          |     |               |
|-----|----------------|-------------------------------------------------------------------------------------------------------------------|---------------|-----|----------|-----|---------------|
| 00° | - ACACIA       | 00°                                                                                                               | - UNKNOWN     | 00° | - CITRUS | 00° | - PAPAYA      |
| 00° | - PALM SPECIES | 00°                                                                                                               | - BOTTLEBRUSH | 00° | - CACTUS | 00° | - CYPRESS     |
| 00° | - BANANA       | 00°                                                                                                               | - MAPLE       | 00° | - MANGO  | 00° | - GUMBO-LIMBO |
| 00° | - FICUS        | 00°                                                                                                               | - MAHOGANY    | 00° | - HEDGE  | 00° | - SCHEFFLERA  |
| 00° | - SEAGRAPE     | 00°                                                                                                               | - OAK         | 00° | - BUSH   | 00° | - PINE        |
|     |                | NOTE: VERIFICATION OF TREE SPECIES SHOULD BE CONDUCTED BY A PROFESSIONAL ENGAGED IN THE FIELD OF NATURAL SCIENCE. |               |     |          |     |               |

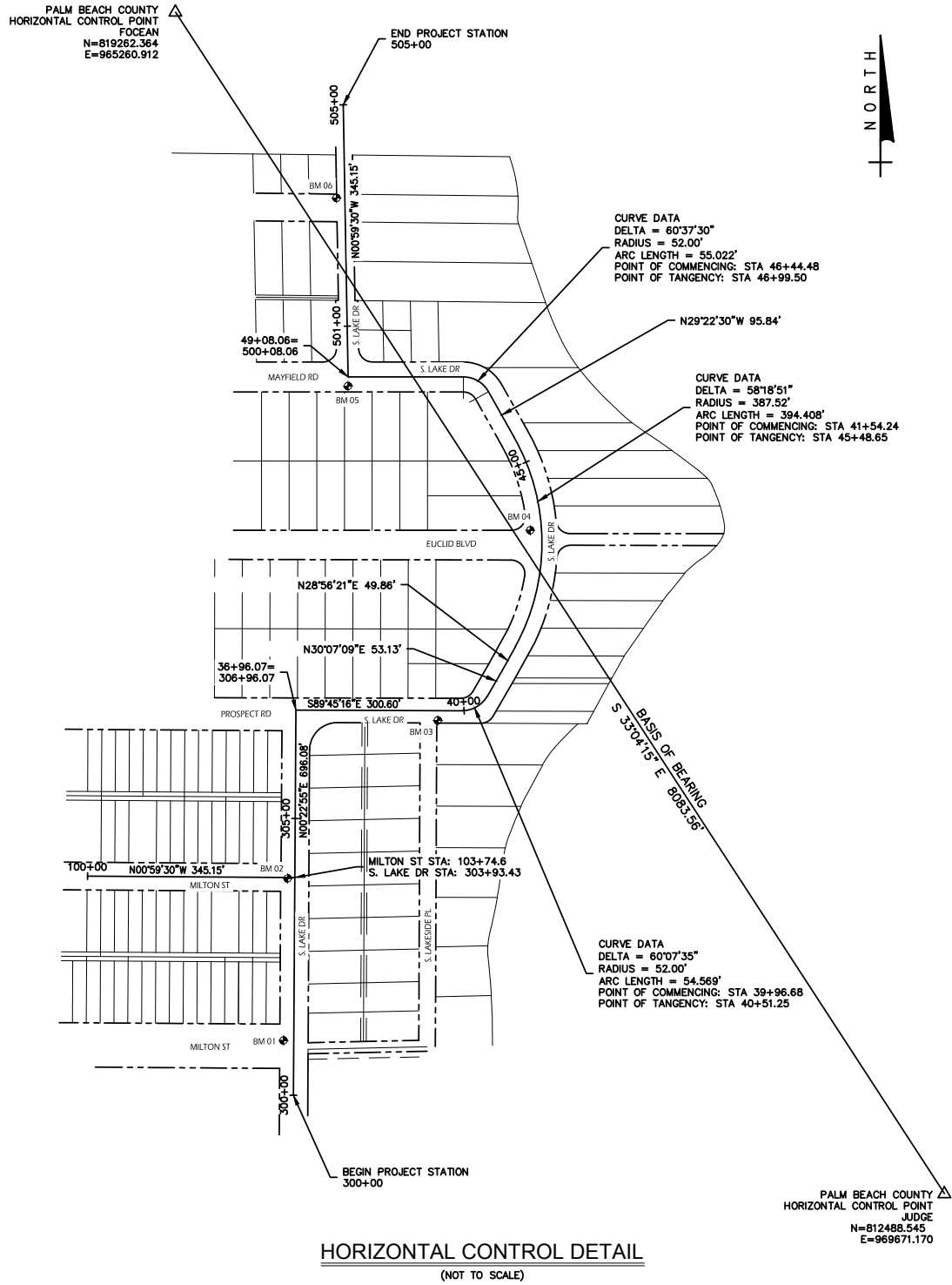
SURVEY PREPARED BY:



3195 N. POWERLINE RD., SUITE 112, POMPAÑO BEACH, FL 33069 - PH. 954.332.8181 - LB NO.: 7535

SITE BENCHMARKS (NAVD 29):

|                                                                                                                                                 |                                                                                                                                                 |                                                                                                                                                 |                                                                                                                                                |                                                                                                                                             |                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| BENCHMARK NO. 01<br>SET 5/8" IRON ROD & RED CAP<br>"CPS LB 7535"<br>STA: 300+98.85, 18.57 LEFT<br>N: 816363.10<br>E: 966133.73<br>BM EL.: 6.79' | BENCHMARK NO. 02<br>SET 5/8" IRON ROD & RED CAP<br>"CPS LB 7535"<br>STA: 303+91.79, 12.92 LEFT<br>N: 816656.08<br>E: 966141.36<br>BM EL.: 7.79' | BENCHMARK NO. 03<br>SET 5/8" IRON ROD & RED CAP<br>"CPS LB 7535"<br>STA: 39+52.65, 17.26 RIGHT<br>N: 816941.95<br>E: 966412.57<br>BM EL.: 5.89' | BENCHMARK NO. 04<br>SET 5/8" IRON ROD & RED CAP<br>"CPS LB 7535"<br>STA: 43+74.27, 20.56 LEFT<br>N: 817284.84<br>E: 966579.99<br>BM EL.: 4.28' | BENCHMARK NO. 05<br>SET PK NAIL & METAL DISK<br>"CPS LB 7535"<br>STA: 49+08.06, 16.42 LEFT<br>N: 817545.57<br>E: 966250.40<br>BM EL.: 7.23' | BENCHMARK NO. 06<br>SET PK NAIL & METAL DISK<br>"CPS LB 7535"<br>STA: 503+31.77, 15.19 LEFT<br>N: 817885.39<br>E: 966229.74<br>BM EL.: 7.77' |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|



HORIZONTAL CONTROL DETAIL

(NOT TO SCALE)

| NO. | DATE | ISSUED FOR | APRV'D BY |
|-----|------|------------|-----------|
|     |      |            |           |
|     |      |            |           |
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|     |      |            |           |

|                      |
|----------------------|
| DESIGNED: C.K.M.     |
| DRAWN: J.A.J./F.R.C. |
| CHECKED: D.L.M./A.C. |
| APPROVED: D.L.M.     |

M. REBECCA TRAVIS, P.E.  
No. 40988



477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401  
Phone: 561-655-6175 • Fax: 561-655-6179  
www.baxtenwoodman.com EB-31795

VERIFY SCALE  
1"  
BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

ENGINEER NO.: 1856

CLIENT  
PROJECT NO.:

CAD REF.: 1856G02

TOWN OF LANTANA  
SOUTH LAKE DRIVE  
FORCE MAIN REPLACEMENT

SYMBOLS, LEGEND, SURVEY NOTES,  
HORIZONTAL CONTROL DETAIL  
AND SITE BENCHMARKS

DATE: OCTOBER 2018

SHEET: 2 of 15

DRAWING: G-2

Acad Version : R22.0s (LMS Tech)  
User Name : 768ddp  
Date/Time : Thu, 04 Oct 2018 - 1:10pm  
Poth Name : I:\WestPalmBeach\LAN\T\161856-S 13th WM\_Lake Dr FM CAD\Lake Drive FM Working Folder\1856G03.dwg  
Current Plotstyle : ByColor  
Layout Tab: G-3

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF TOWN OF LANTANA, PALM BEACH COUNTY ROADWAY DEPARTMENT, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, PALM BEACH COUNTY HEALTH DEPARTMENT AND NATIONAL CODES WHERE APPLICABLE.
- ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES SHALL BE STRICTLY OBSERVED.
- ALL CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION OVER THE R/W WHERE THE PROJECT IS CONSTRUCTED.
- MAINTENANCE OF TRAFFIC (MOT) PLANS SHALL MEET THE REQUIREMENTS OF SECTION 102 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE REQUIREMENTS OF THE TOWN OF LANTANA AS FURTHER DEFINED IN THE SPECIFICATIONS OF THESE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL PREPARE AND SUBMIT M.O.T. PLANS TO TOWN OF LANTANA AND PALM BEACH COUNTY FOR REVIEW AND APPROVAL FOR WORK TO BE DONE WITHIN THE PUBLIC RIGHT-OF-WAYS.
- CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY AT ALL TIMES.
- LOCATIONS OF EXISTING FACILITIES AS SHOWN ON CONSTRUCTION DRAWINGS ARE APPROXIMATE AND ARE DRAWN FROM AVAILABLE RECORDS. THE TOWN AND THEIR CONSULTANTS ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FACILITIES SHOWN NOR FOR ANY FACILITY NOT SHOWN. THE CONTRACTOR SHALL LOCATE OR EXPOSE ALL UTILITIES WITHIN THE PROPOSED WORK AREAS AND AT CRITICAL LOCATIONS TO VERIFY UTILITY LOCATIONS AND PIPE LAYING SCHEDULES.
- CONTRACTOR SHALL OBTAIN THE SERVICES OF SUNSHINE STATE ONE CALL OF FLORIDA, INC. AS REQUIRED BY FLORIDA STATUTES (1-800-432-4770).
- COVER SHALL BE A MINIMUM OF 2.5 FEET (TYPICAL) UNLESS APPROVED BY THE TOWN.
- ALL DELETERIOUS MATERIAL SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.
- IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES.
- ALL OPEN TRENCHES AND HOLES SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
- ALLOWABLE OPEN TRENCH AT END OF DAY SHALL NOT EXCEED 10 FEET AND SHALL BE PROPERLY COVERED WITH STEEL PLATE. TEMPORARY ASPHALT SHALL BE INSTALLED PRIOR TO END OF DAY ON ALL ROAD CROSSINGS. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.
- CONTRACTOR SHALL PLACE ELECTRONIC TAPE MARKER (ETM) OVER ALL PIPING, VALVES AND FITTINGS.
- CONTRACTOR SHALL UTILIZE BEST CONSTRUCTION METHODS AND DEVICES AS INDICATED IN FDOT INDEX 100 THRU 105 WHERE NECESSARY IN ORDER TO COMPLY WITH ALL STATE, LOCAL AND NPDES WATER QUALITY STANDARDS.
- CONTRACTOR IS RESPONSIBLE FOR NOTIFYING HOME OWNERS CONCERNING THE REMOVAL OF LANDSCAPING WITHIN THE RIGHT-OF-WAY OF THE ALIGNMENT OF THE PROPOSED RAW WATER MAIN. THE CONTRACTOR SHALL BE ALLOWED TO REMOVE AND DISPOSE OF TREES IF GIVEN WRITTEN PERMISSION BY THE OWNER OF THE RESIDENTIAL PROPERTY.
- CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS AND TRAFFIC SIGNAL LOOPS REMOVED DURING CONSTRUCTION.
- EXISTING TRAFFIC SIGNS TO BE RESET PER FDOT STANDARDS.
- VALVE BOXES SHOWN ARE APPROXIMATE, CONTRACTOR SHALL ADJUST VALVE BOXES AS REQUIRED TO MEET FINAL GRADES.
- CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO LOCATE, EXCAVATE AND PREPARE FOR CONNECTIONS TO THE EXISTING SYSTEMS ALL AS SHOWN ON THE DRAWINGS.
- STATIONS SHOWN ON THE DRAWINGS ARE STATIONS BASED ON THE ESTABLISHED BASELINE AND SHALL NOT BE CONSIDERED AS DISTANCES OR AS A MEASURE OF THE LINEAR FOOTAGE OF PIPE TO BE INSTALLED.
- ALL AREAS SHOWN TO BE OVERLAYED AS A RESULT OF OPEN CUT OPERATIONS, WILL BE MILLED PRIOR TO RESURFACING.
- A VIDEO TAPE SHALL BE MADE OF THE ENTIRE CONSTRUCTION AREA. THE TAPE SHALL DOCUMENT THE CONDITIONS OF ALL ADJACENT PROPERTY, FENCES, DRIVEWAYS, IRRIGATION, MAIL BOXES AND OTHER SUCH FEATURES. PARTICULAR ATTENTION SHOULD BE PAID TO ITEMS BROKEN OR IN DISREPAIR PRIOR TO CONSTRUCTION, SUCH THAT THERE WILL BE FULL UNDERSTANDING OF THE REQUIREMENTS FOR RESTORATION AFTER CONSTRUCTION IS COMPLETED.
- PROJECT SITE SAFETY:
  - THE ENGINEER/OWNER OR THEIR EMPLOYEES HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER THE CONTRACTOR, ANY SUB-CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY JOB SITE HEALTH OR SAFETY PRECAUTIONS.
  - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY, AND WARRANTS THAT THIS INTENT IS MADE EVIDENT BY THE AGREEMENT BETWEEN OWNER AND CONTRACTOR.
  - ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS OR ENCOUNTERED THROUGH THE PROGRESSION OF WORK AT THIS PROJECT SITE ARE ASSUMED TO BE LIVE, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS WHEN WORKING AROUND EXISTING OVERHEAD OR UNDERGROUND UTILITIES.

GENERAL INFORMATION

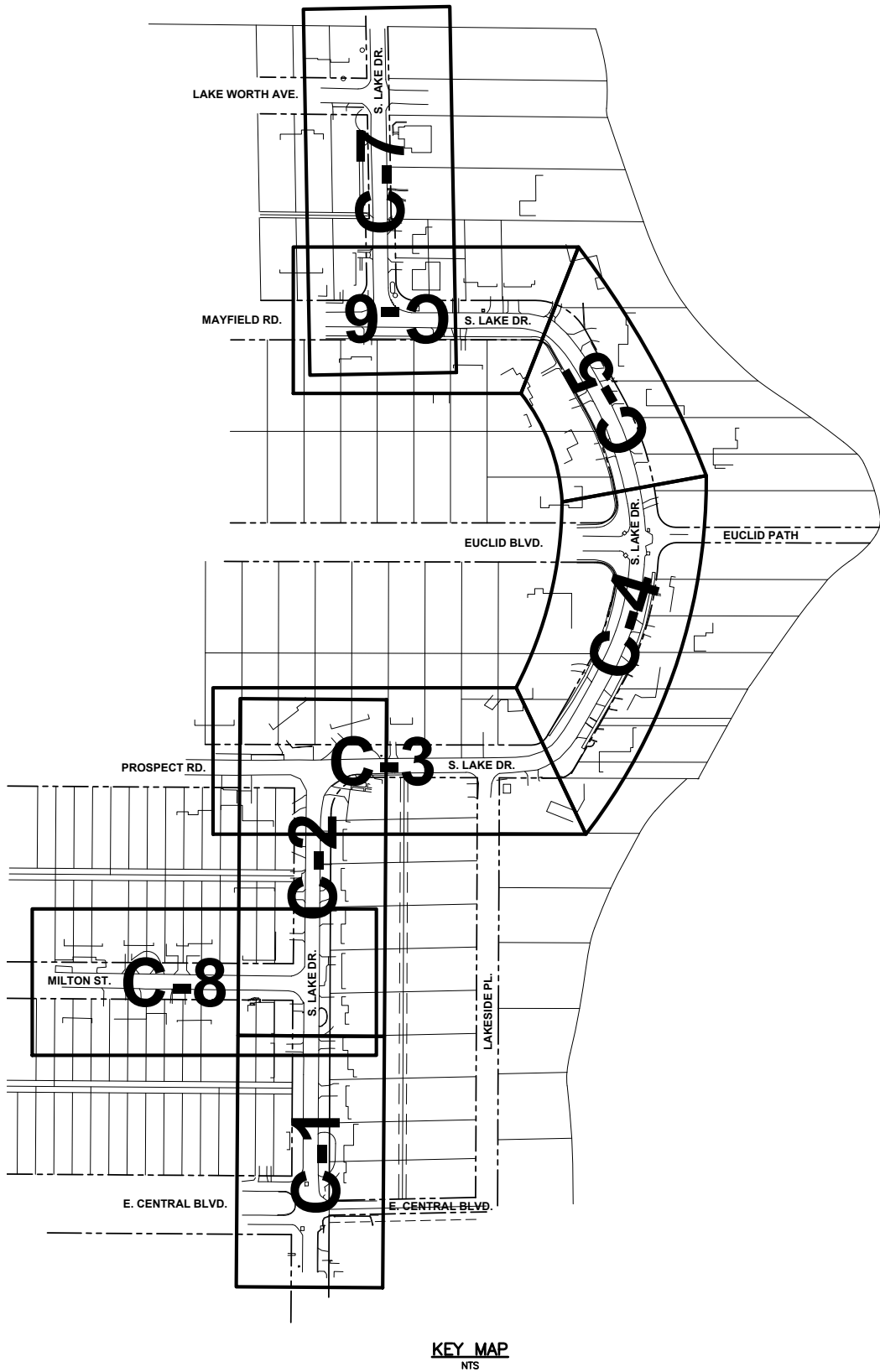
- BELLSOUTH TELEPHONE, FLORIDA POWER AND LIGHT, CABLE TV, GAS, ETC. ARE TAKEN FROM FIELD INSPECTIONS AND SKETCHES PROVIDED BY UTILITIES AND ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL CONTACT ALL UTILITY OWNERS AND CONFIRM LOCATIONS OF UTILITIES NO LESS THAN 48 HOURS BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ACCURATELY LOCATE AND UNCOVER ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION WHERE CROSSING OR PARALLELING OF EXISTING UTILITIES OCCUR. ANY DAMAGE RESULTING FROM THE CONTRACTORS OPERATION SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

CONSTRUCTION SEQUENCE

- TRAFFIC IS TO BE MAINTAINED AT ALL TIMES. ACCESS TO PRIVATE PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. NO STREET IS TO BE CLOSED FOR A PERIOD OF MORE THAN FOUR HOURS; LOCAL TRAFFIC SHALL BE MAINTAINED.

EROSION CONTROL NOTES:

- ALL EXISTING & PROPOSED STORM SEWER INLET GRATES TO BE COVERED WITH FILTER FABRIC DURING CONSTRUCTION.
- CUT AND FILL SLOPES TO BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SILT FENCES TO BE USED WHERE NECESSARY.
- CONSTRUCTION VEHICLE ACCESS ROUTES SHALL BE SWEEPED CLEAN OF SEDIMENT, CONCRETE AND OTHER CONSTRUCTION MATERIALS AS NEEDED.
- ALL BERMS, DIKES AND SPOIL PILES SUBJECT TO EROSION MUST BE STABILIZED OR CONTAINED TO PREVENT EROSION AND RUNOFF FROM THE PROJECT.



KEY MAP  
NTS

PERMITTING

| NO. | DATE | ISSUED FOR | APR'D BY |
|-----|------|------------|----------|
|     |      |            |          |
|     |      |            |          |
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|           |               |
|-----------|---------------|
| DESIGNED: | C.K.M.        |
| DRAWN:    | J.A.J./F.R.C. |
| CHECKED:  | D.L.M./A.C.   |
| APPROVED: | D.L.M.        |

M. REBECCA TRAVIS, P.E.  
No. 40988



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VERIFY SCALE  
1"  
BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

ENGINEER NO.: 1856

CLIENT  
PROJECT NO.:

CAD REF.: 1856G03

TOWN OF LANTANA  
SOUTH LAKE DRIVE  
FORCE MAIN REPLACEMENT

GENERAL NOTES, INFORMATION AND KEY MAP

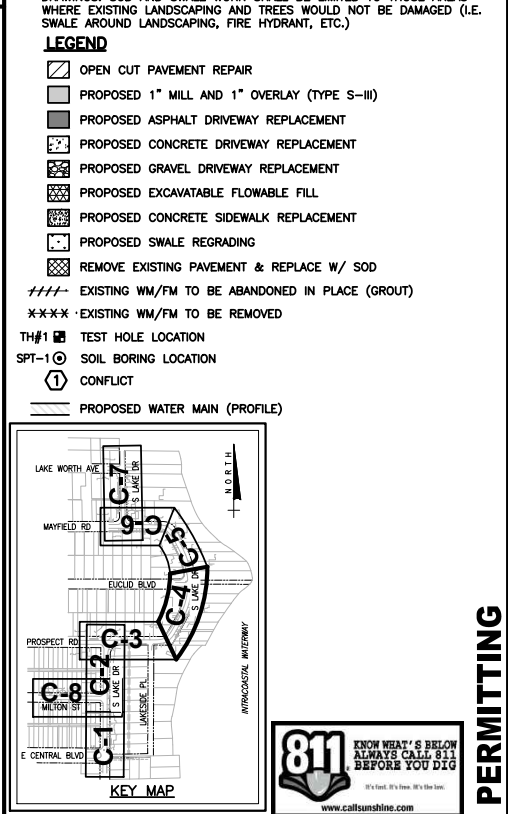
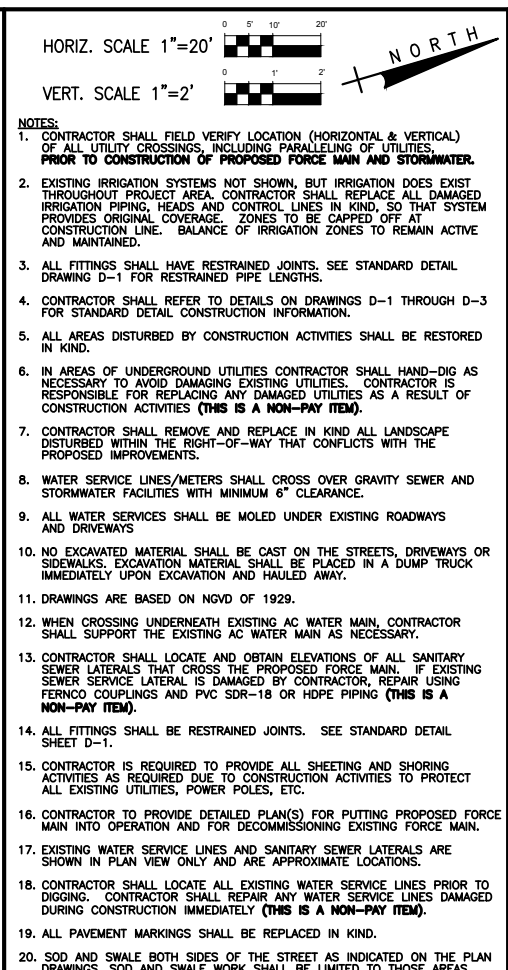
DATE: OCTOBER 2018

SHEET: 3 of 15

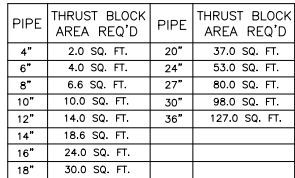
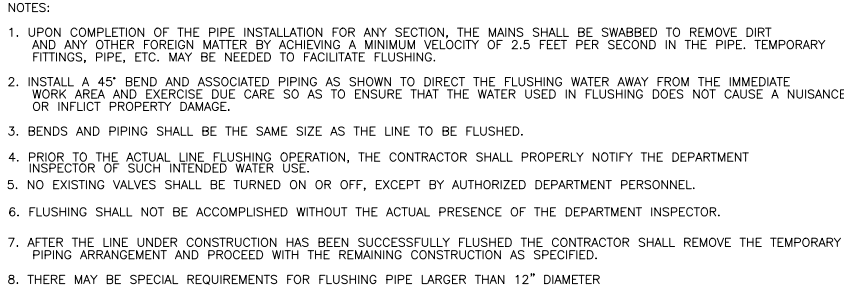
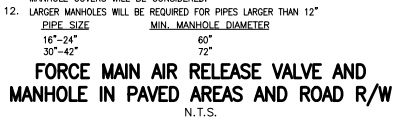
DRAWING: G-3





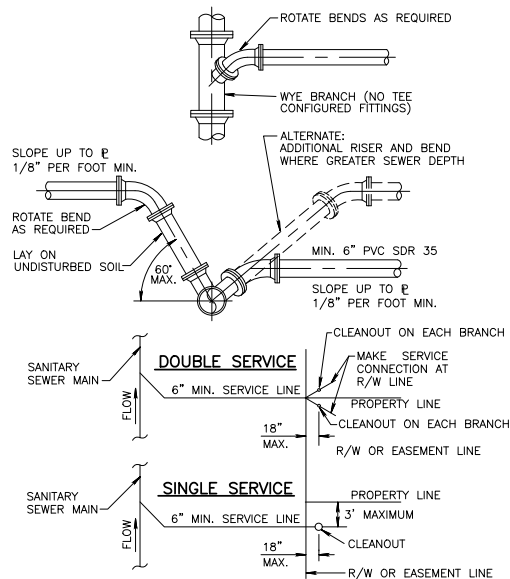


# PERMITTING



1. THRUST BLOCKS SHALL BE FORMED AND POURED AGAINST UNDISTURBED SOIL. KEEP "T" BOLTS CLEAR OF CONCRETE, WRAPPED IN VISQUEEN FOR FUTURE ACCESS, WITH A MINIMUM OF 12" THICKNESS BETWEEN THE FITTING AND THE SOIL.
2. BEFORE POURING, PLUGS SHALL BE WRAPPED WITH VISQUEEN AND A BOARD PLACED IN FRONT.
3. CONCRETE SHALL BE 2500 P.S.I. MINIMUM. (28 DAY STRENGTH).

CONCRETE THRUST BLOCK AT PLUG DETAIL  
N.T.S.



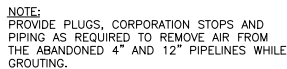
1. SERVICE LATERALS SHALL TERMINATE INSIDE PROPERTY LINE A DEPTH OF 3 FEET AND MARKED WITH A 2"x 4" TREATED STAKE.
2. CLEANOUT INSTALLATION SHALL BE PROPERTY OWNERS RESPONSIBILITY AND SHALL BE INSTALLED BY LICENSED PLUMBER.
3. SEE DETAIL PW 2.1 FOR SEPARATION REQUIREMENTS.

**SEWER SERVICE CONNECTIONS**  
N.T.S.

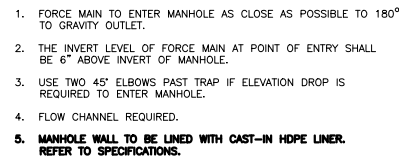
**NOTES:**

1. THE DATA IN THE ABOVE TABLE ARE BASED UPON THE FOLLOWING INSTALLATION CONDITIONS:  
SOIL TYPE-SAND      TEST PRESSURE-150 PSI/200 PSI      DEPTH OF BURY'-3'  
TRENCH TYPE-3      SAFETY FACTOR- 1.5      VERTICAL OFFSET-3'  
MINIMUM PIPE LENGTH ALONG TEE RUN-5'
2. THE RESTRAINED PIPE LENGTHS APPLY TO DUCTILE IRON AND PVC PIPE.
3. ALL JOINTS BETWEEN UPPER AND LOWER BENDS SHALL BE RESTRAINED.
4. RESTRAINED PIPE LENGTHS APPLY TO PIPE ON BOTH SIDES OF VALVES AND FITTINGS.

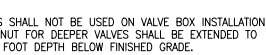
### MECHANICAL THRUST RESTRAINT – MINIMUM PIPE LENGTHS



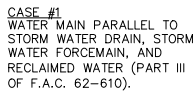
**PIPE GROUTING DETAIL**  
N.T.S.



FORCE MAIN ENTERING MANHOLE



## PLUG VALVE

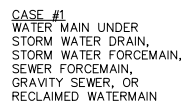


CASE #2  
WATER MAIN PARALLEL TO  
VACUUM SEWER.

CASE #3  
WATER MAIN PARALLEL TO  
GRAVITY SEWER AND  
WASTEWATER FORCEMAIN.

NOTE: THIS DETAIL REPRESENT THE REQUIRED SEPARATION OF WATERMAINS TO OTHER PIPING SYSTEM, AS REQUIRED BY F.A.C. 62-555.314 AND WHICH SHALL PREVAIL OVER THESE DETAIL.

### HORIZONTAL SEPARATION DETAIL



CASE #2  
WATERMAIN OVER STORM WATER  
FORCEMAIN, SEWER FORCE MAIN  
OR RECLAIMED WATER.

CASE #3  
WATERMAIN OVER  
STORM DRAIN,  
VACUUM SEWER, OR  
GRAVITY SEWER

NOTE: THIS DETAIL REPRESENT THE REQUIRED SEPARATION OF WATERMAINS TO OTHER PIPING SYSTEM, AS REQUIRED BY F.A.C. 62-555.314 AND WHICH SHALL PREVAIL OVER THESE DETAIL.

### VERTICAL SEPARATION DETAIL

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Phone: 561-655-6175 • Fax: 561-655-6179  
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ENGINEER NO.: 1856

CLIENT

PROJECT NO.: \_\_\_\_\_

CAD REF.: 1856DETAILS

TOWN OF LANTANA  
SOUTH LAKE DRIVE  
FORCE MAIN REPLACEMENT

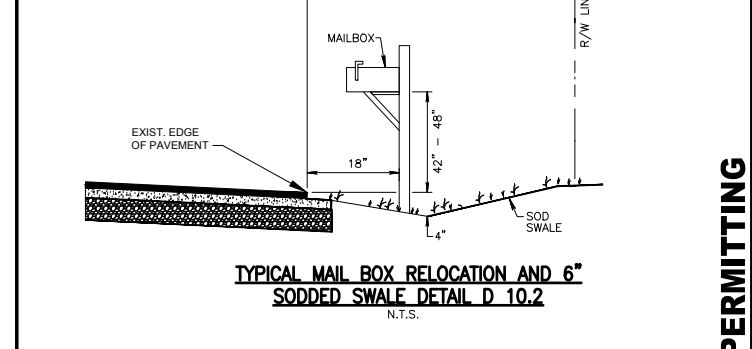
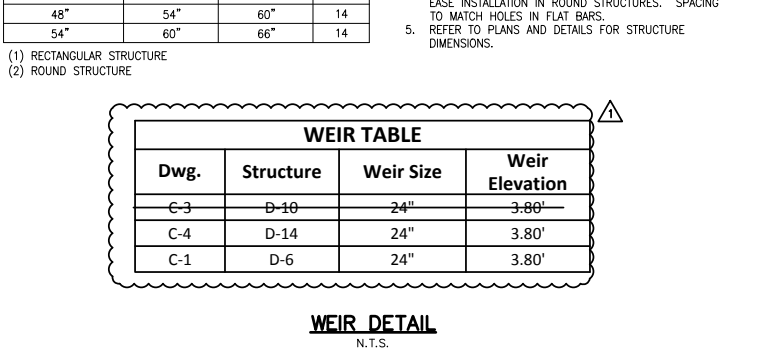
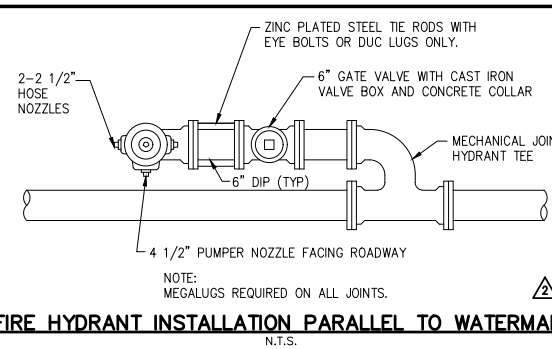
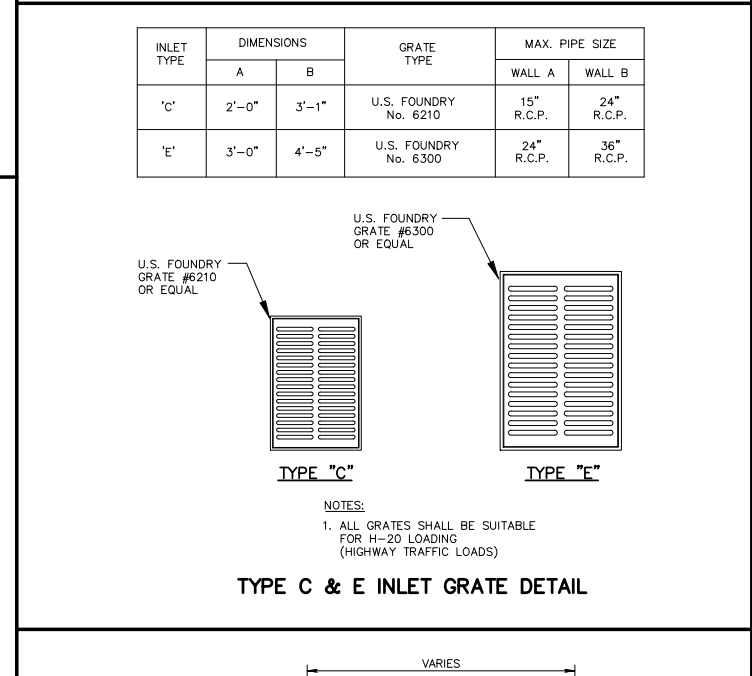
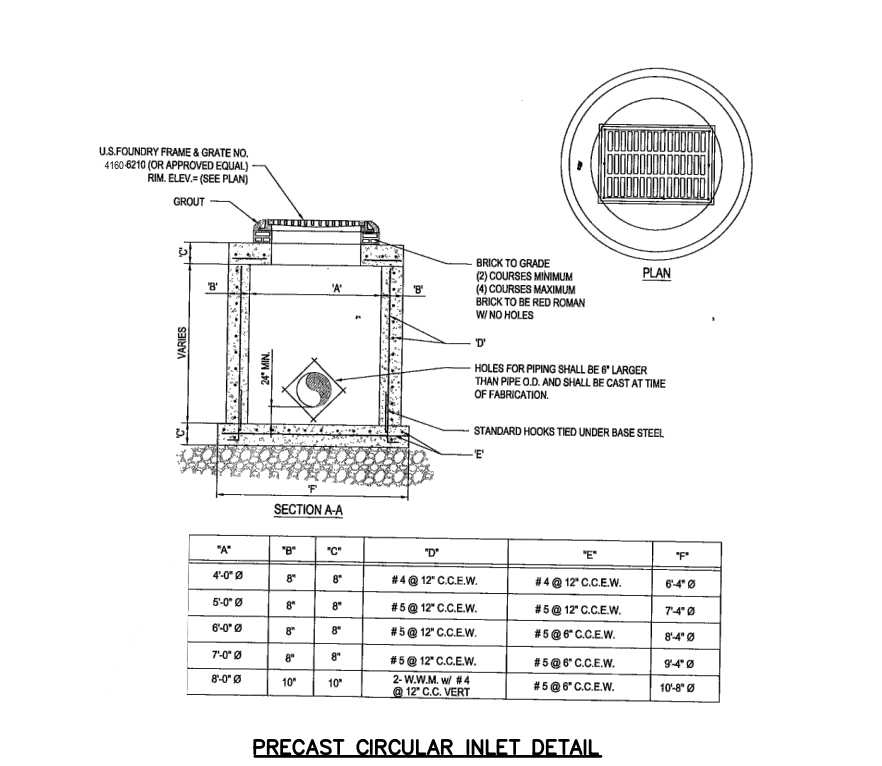
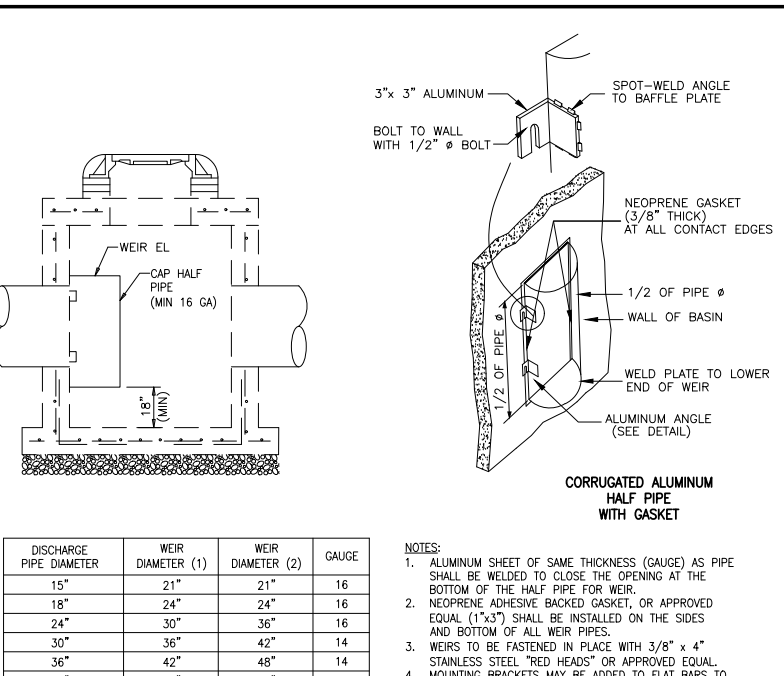
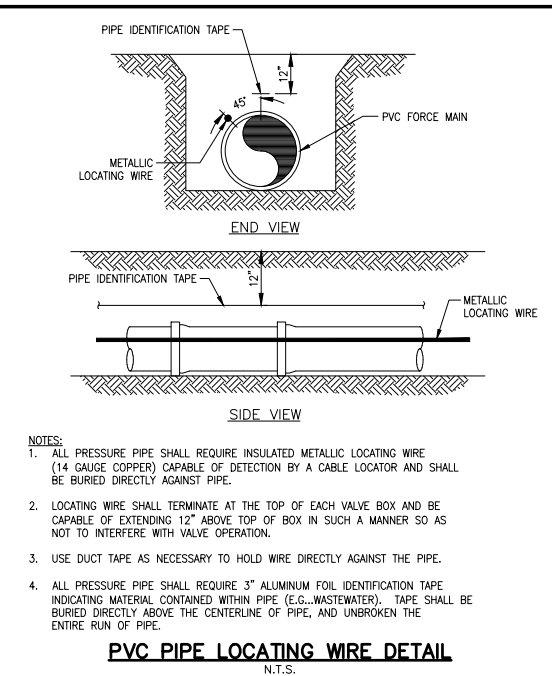
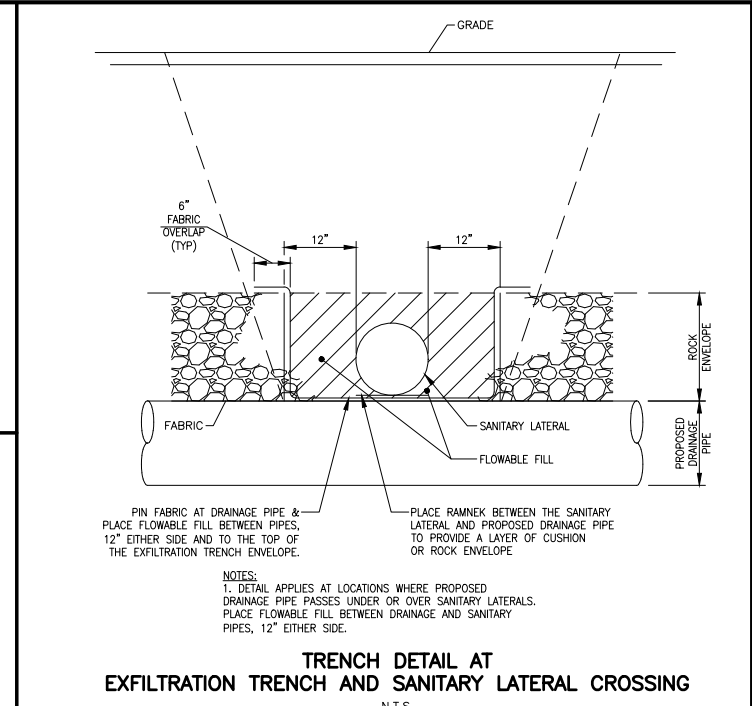
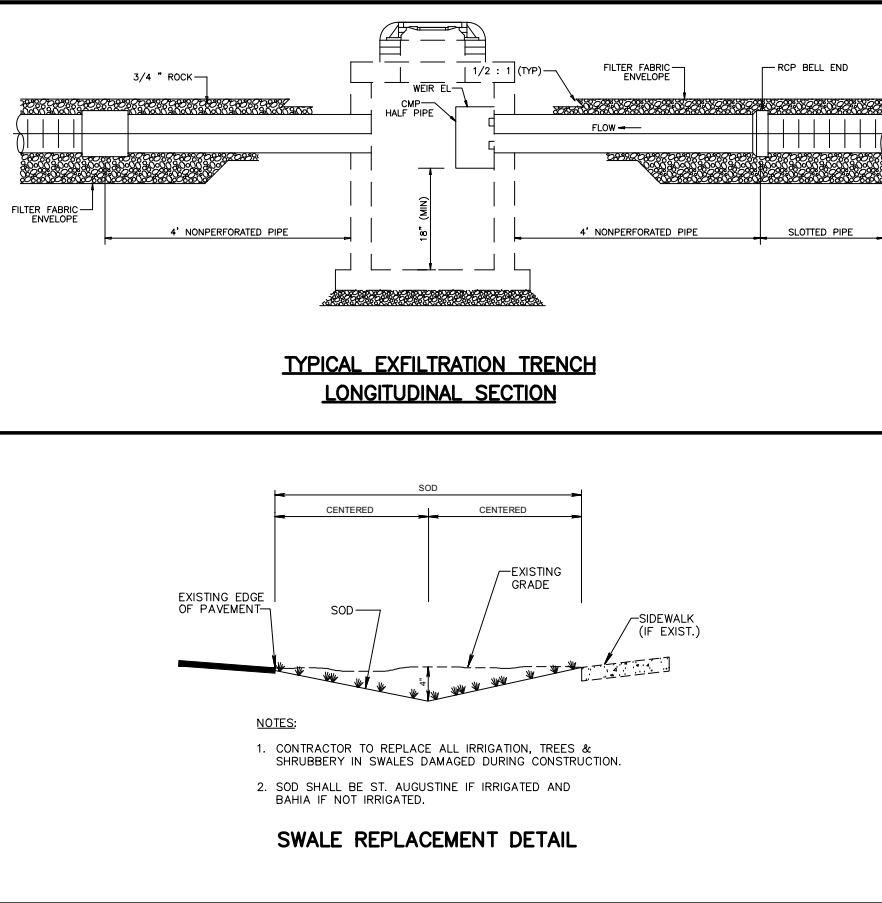
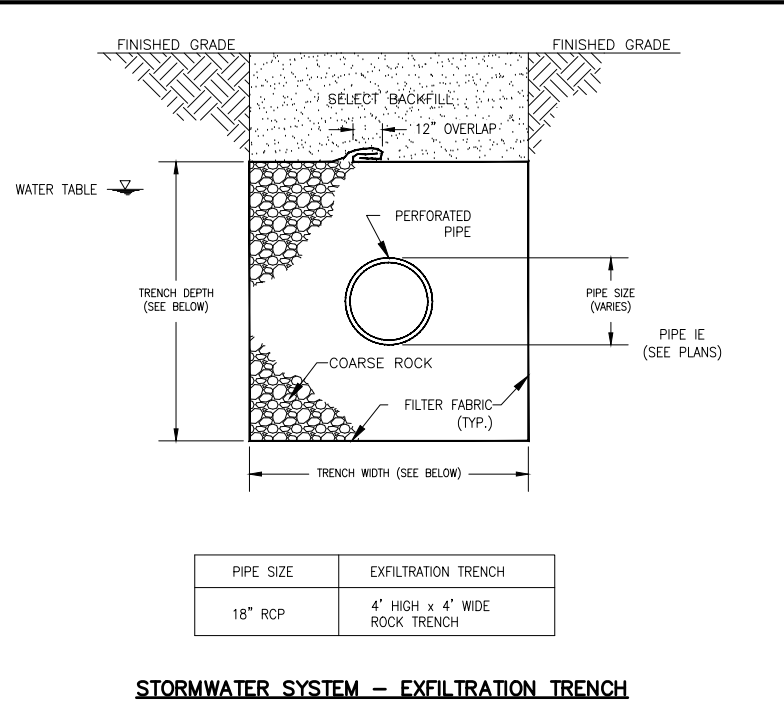
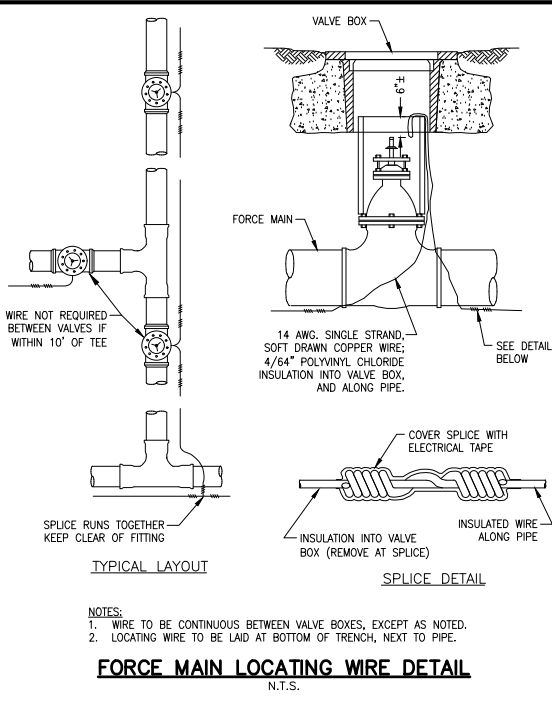
STANDARD DETAILS – SHEET 1

DATE: OCTOBER 2018

SHEET: 12 of 15

DRAWING: D-1

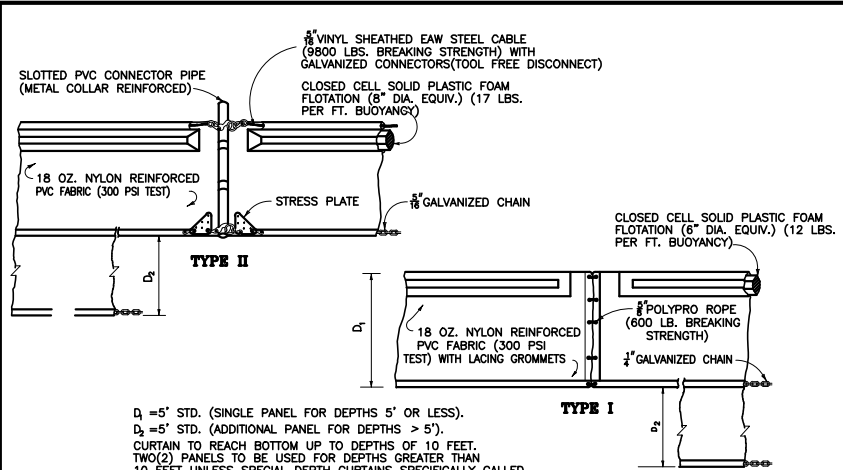
## **PERMITTING**





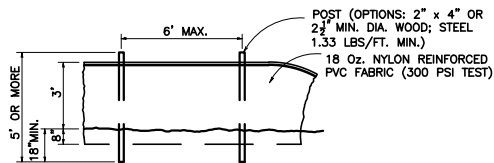
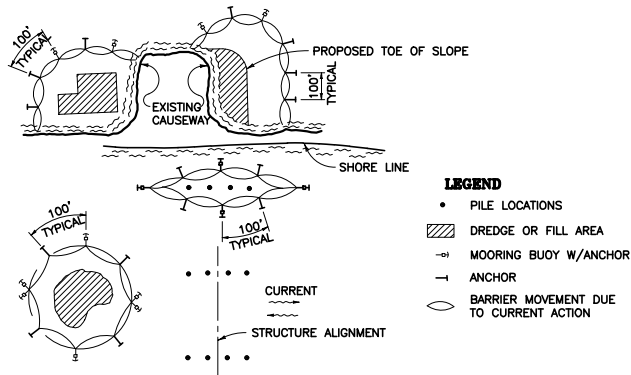




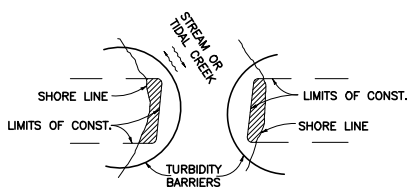


D<sub>1</sub> = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).  
D<sub>2</sub> = 5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5').  
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET.  
TWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

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

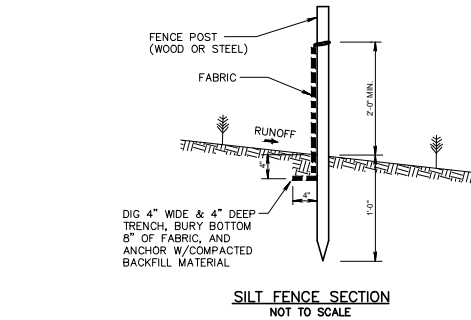


STAKED TURBIDITY BARRIER

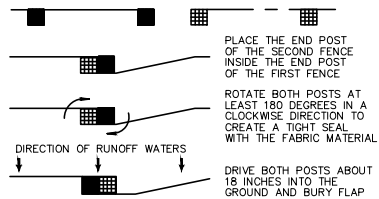


FLOATING TURBIDITY BARRIERS

- NOTES:**
1. TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATION OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTORS OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS. POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  2. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
  3. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
  4. DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
  5. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
  6. FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE STANDARD SPECIFICATIONS.

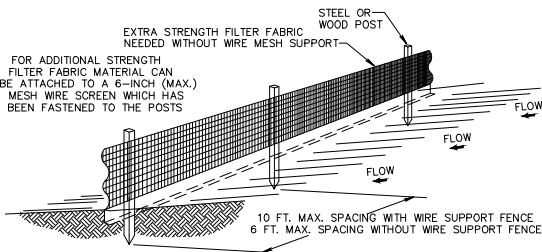


SILT FENCE SECTION  
NOT TO SCALE



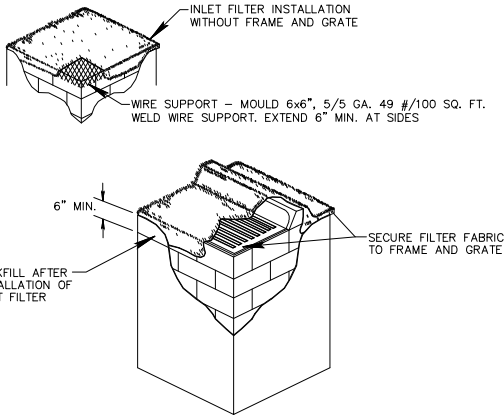
ATTACHING TWO SILT FENCES  
NOT TO SCALE

SILT FENCE INSTALLATION DETAIL



- 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.

SILT FENCE INSTALLATION DETAIL



- NOTES:**
1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
  2. CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING.

A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14 INCHES IN DEPTH, APPROXIMATELY 36 INCHES IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.

INLET FILTER DETAIL

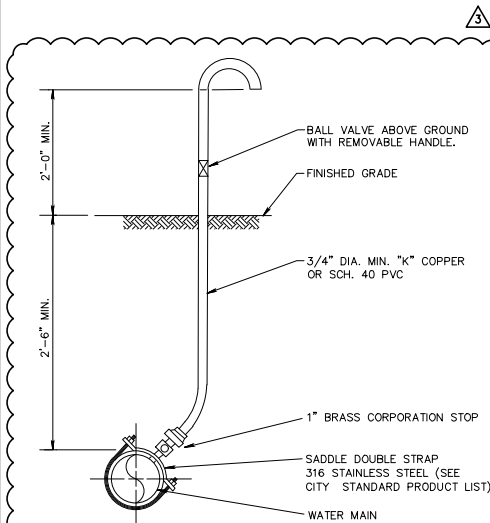
MAXIMUM QUANTITY OF WATER (GALLONS PER HOUR) THAT MAY BE SUPPLIED TO MAINTAIN PRESSURE WITHIN 5 P.S.I. OF THE SPECIFIED TEST PRESSURE. (MECHANICAL OR PUSH-ON JOINT, 18 FT. NOMINAL LENGTHS, PER 1000 FT. OF PIPE)

| AVG. TEST PRESSURE PSI | 2    | 3    | 4    | 6    | 8    | 10   | 12   | 14   | 16   | 18   | 20   | 24   | 30   | 36   | 42   | 48   |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 150                    | 0.08 | 0.12 | 0.16 | 0.25 | 0.33 | 0.41 | 0.50 | 0.58 | 0.66 | 0.74 | 0.83 | 0.99 | 1.24 | 1.49 | 1.74 | 1.99 |
| 200                    | 0.09 | 0.14 | 0.19 | 0.29 | 0.38 | 0.48 | 0.57 | 0.67 | 0.76 | 0.86 | 0.96 | 1.15 | 1.43 | 1.72 | 2.01 | 2.29 |

**NOTES:**

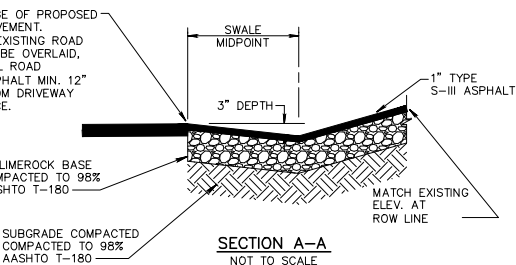
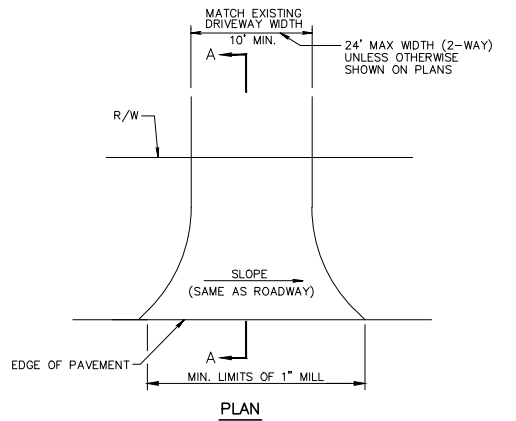
1. TO OBTAIN THE MAXIMUM QUANTITY OF WATER FOR PIPE WITH 20 FT. NOMINAL LENGTHS, MULTIPLY THE QUANTITY CALCULATED FROM THE TABLE BY 0.9
2. THE MAXIMUM QUANTITY OF ADDED WATER FOR A PIPELINE IS CALCULATED BY MULTIPLYING THE QUANTITY PER HOUR AS OBTAINED FROM THE ABOVE TABLE, BY THE DURATION OF THE TEST IN HOURS AND BY THE TOTAL LENGTH OF THE LINE BEING TESTED DIVIDED BY 1,000. IF THE LINE UNDER TEST CONTAINS SECTIONS OF VARIOUS DIAMETERS, THE MAXIMUM QUANTITY ADDED WILL BE THE SUM OF THE COMPUTED QUANTITIES FOR EACH SIZE.
3. MAXIMUM TEST LENGTH = 2,500 FEET PER SECTION.
4. THIS STANDARD SHALL REFLECT ANY REVISION OF A.W.W.A. C-600. HOWEVER, THE MAXIMUM QUANTITY OF WATER ADDED SHALL NOT EXCEED 50% OF THE RECOMMENDED LIMIT PER APPLICABLE AWWA C-600 STANDARD.
5. STANDARD TEST PRESSURE = 150 P.S.I.
6. FORMULA BASIS:  $L = \frac{(S) \times (D) \times (P)^{1/2}}{148,000} \times 1/2$   
L = MAXIMUM QUANTITY OF WATER TO BE ADDED (GALLONS PER HOUR)  
S = LENGTH OF PIPE TESTED (FEET)  
D = DIAMETER OF PIPE (INCHES)  
P = TEST PRESSURE (P.S.I.)
7. PRESSURE TEST DURATION TO BE MIN. 2 HOURS.

PRESSURE TEST CRITERIA  
N.T.S.



- NOTES:**
1. SAMPLE POINT SHOULD BE AT SERVICE LINE OR FIRE HYDRANT IF POSSIBLE.
  2. IF SAMPLE POINT IS NOT AT SERVICE LINE OR FIRE HYDRANT, CORP. STOP SHALL BE SHUT OFF AT MAIN AND ALL TUBING SHALL BE REMOVED, AFTER SATISFACTORY BACTERIOLOGICAL TESTING.
  3. IF AT ALL POSSIBLE SAMPLE POINT SHALL NOT BE LOCATED IN A TRAFFIC AREA.

TYPICAL SAMPLE POINT



**NOTE:**  
WHEREVER THE SIDEWALK CROSSES A DRIVEWAY, IT IS TO BE INSTALLED 6-INCHES THICK. ALL OTHER LOCATIONS, THE SIDEWALKS ARE 4-INCHES THICK.

ASPHALT DRIVEWAY APRON DETAIL  
N.T.S.

EROSION CONTROL NOTES DETAIL

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VERIFY SCALE

1"  
BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

ENGINEER NO.: 1856

CLIENT  
PROJECT NO.:

CAD REF.: 1856DETAILS

**TOWN OF LANTANA  
SOUTH LAKE DRIVE  
FORCE MAIN REPLACEMENT**

STANDARD DETAILS – SHEET 4

DATE: OCTOBER 2018

SHEET: 15 of 15

DRAWING: D-4