

CITY OF POMPANO BEACH LIBERTY PARK SEWER IMPROVEMENTS

CITY PROJECT No. 04-870

CITY BID No. E-10-16



PROJECT LIMITS
LOCATION MAP
SCALE: NTS
SECTION 26, TOWNSHIP 48 SOUTH, RANGE 42 EAST



DRAWING LIST

SHEET	DRAWING	TITLE
GENERAL		
1	G-1	TITLE SHEET, LOCATION MAP AND DRAWING LIST
2	G-2	SURVEY LEGEND AND GENERAL NOTES
3	G-3	KEY MAP AND HORIZONTAL CONTROL DETAIL
CIVIL		
4	C-1	NW 19TH STREET PLAN AND PROFILE - SHEET 1
5	C-2	NW 20TH STREET PLAN AND PROFILE - SHEET 2
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DETAILS		
9	D-1	STANDARD DETAILS - SHEET 1 OF 3
10	D-2	STANDARD DETAILS - SHEET 2 OF 3
11	D-3	STANDARD DETAILS - SHEET 3 OF 3

BID SET
FEBRUARY 2016

FOR INFORMATION REGARDING THIS PROJECT, CONTACT:

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No. 48242 (GENERAL, CIVIL)

TITLE SHEET AND
LOCATION MAP

SHEET: 1 of 11

DRAWING: G-1

Acad Version : R19.0s (LMS Tech) User Name : Jenkins
 Date/Time : Tue, 09 Feb 2016 - 1:29pm
 Path Name : S:\Projects\Pompano\1814-Liberty Park Sewer Improvements\CAD\Working Folder\1814G02.DWG
 Current Plotstyle : ByColor
 Layout Tab: G-2
 User Name : Jenkins

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, BROWARD COUNTY HEALTH DEPARTMENT, FLORIDA DEPARTMENT OF TRANSPORTATION, 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 AS FURTHER DEFINED IN THE SPECIFICATIONS OF THESE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL PREPARE AND SUBMIT MOT PLANS TO CITY OF POMPANO BEACH FOR REVIEW AND APPROVAL FOR WORK TO BE DONE WITHIN OR ADJACENT TO IMPROVED RIGHT-OF-WAY.
- 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 ENGINEER 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 PRIOR TO SUBMITTING SHOP DRAWINGS. THIS SHALL BE DONE WITHIN 30 DAYS AFTER NOTICE TO PROCEED. THE INFORMATION OBTAINED (ELEVATION, SEPARATION DISTANCE, PIPE MATERIAL AND SIZE, ETC.) SHALL BE MADE PART OF THE CONTRACTOR'S SUBMITTAL FOR ALL PIPING.
- CONTRACTOR SHALL OBTAIN THE SERVICES OF SUNSHINE STATE ONE CALL OF FLORIDA (811), INC. AS REQUIRED BY FLORIDA STATUTES. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES.
- 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 ENGINEER.
- PROPOSED TRUNCATED DOMED MATS SHALL BE IN ACCORDANCE WITH FDOT STANDARD INDEX 304 AND SHALL BE ON THE FDOT QUALIFIED PRODUCTS LIST (QPL). MATS SHALL BE SAFETY YELLOW.
- ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAY OR WALKWAY SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
- NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION FROM CITY OF POMPANO BEACH.
- CONTRACTOR SHALL MAINTAIN HIS WORK WITHIN R/W AND EASEMENT LIMITS UNLESS OTHERWISE NOTED ON DRAWINGS.
- CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS REMOVED DURING CONSTRUCTION. ALL PROPOSED AND REPLACED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
- EXISTING TRAFFIC SIGNS TO BE RESET PER FDOT STANDARDS.
- CONTRACTOR SHALL ADJUST ALL UTILITY CASTING INCLUDING SANITARY SEWER MANHOLE TOPS, INLETS, VALVE BOXES AND SIMILAR STRUCTURES 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.
- THE CONTRACTOR SHALL SCHEDULE INSPECTIONS AND TESTS WITH THE CITY A MINIMUM OF 48 HOURS IN ADVANCE.
- CONTRACTOR SHALL NOT DISTURB EXISTING CITY MAINS OR STRUCTURES WITHOUT THE PRESENCE OF A CITY INSPECTOR. CITY UTILITY SYSTEM VALVES AND APPURTENANCES MAY ONLY BE OPERATED BY CITY PERSONNEL.
- SITE INFORMATION BASED ON A SURVEY PREPARED BY: COMPASS POINT SURVEYORS
- CLEARING AND GRUBBING SHALL INCLUDE REMOVAL OF ALL VEGETATION WITHIN RIGHT-OF-WAY AS REQUIRED TO CONSTRUCT THE REQUIRED IMPROVEMENTS.
- 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 JOBSITE HEALTH OR SAFETY PRECAUTIONS.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE 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.
- THE CONTRACTOR SHALL COORDINATE AND EMPLOY THE SERVICES OF FPL TO SUPPORT ANY EXISTING POWER POLES WITHIN THE IMMEDIATE VICINITY OF TRENCHES.
- CONTRACTOR SHALL LIMIT THE CONSTRUCTION IMPACTS TO DRIVEWAYS AS SHOWN ON THE PLANS. THE COST OF THE SHEETING, SHORING, ETC. OF THE TRENCH SHALL BE INCLUDED IN THE COSTS OF DEEP UTILITY CONSTRUCTION AS NECESSARY TO LIMIT TRENCH WIDTH. THE LIMIT OF DRIVEWAY REPLACEMENT SHALL BE SAWCUT.

GENERAL INFORMATION

- AT&T 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.
- ALL MATERIALS SHALL CONFORM TO CITY OF POMPANO BEACH STANDARD SPECIFICATIONS.

EROSION CONTROL

- ALL 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.
- THE QUALITY OF THE DISCHARGE WATER FROM DEWATERING AND CONSTRUCTIONS ACTIVITIES SHALL MEET STATE WATER QUALITY STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND PERMITTING OF A STORMWATER POLLUTION PREVENTION PLAN FOR THE PROJECT.

SURVEYOR'S REPORT

TYPE OF SURVEY:

TOPOGRAPHIC SURVEY SHOWING IMPROVEMENTS IN SPECIFIC AREAS OF LIBERTY PARK, POMPANO BEACH, BROWARD COUNTY, FLORIDA AS DEFINED BY THE CLIENT.

SURVEY PREPARED BY: COMPASS POINT SURVEYORS, PL., 2101 N.W. 33RD STREET SUITE #100, POMPANO BEACH, FLORIDA 33069, OFFICE: 954-332-8181

MAP OF SURVEY: THIS SURVEY IS NOT VALID UNLESS COMPLETE AND SHOWN IN ITS ENTIRETY FROM SHEET 01 OF 07 THRU SHEET 07 OF 07.

ACCURACY: 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:

- THAT CERTAIN PLAT OF LIBERTY PARK, SECTION 2, PLAT BOOK 53, PG 34 WAS UTILIZED IN THE PREPARATION OF THIS SURVEY.
- MULTIRESOLUTION SEAMLESS IMAGES (MRSID), DOWNLOADED FROM LAND BOUNDARY INFORMATION SYSTEM (LABINS) WWW.LABINS.ORG, WERE UTILIZED IN THE PREPARATION OF THIS SURVEY.
- ELEVATIONS SHOWN HEREON ARE IN FEET AND REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). PARENT BENCH MARK: BROWARD COUNTY BENCHMARK, DESIGNATION "0695", ELEVATION = 14.50 FEET (NAVD 88). MONUMENT LOCATION: THE NORTHEAST RIM OF A DRAINAGE MANHOLE LOCATED AT THE INTERSECTION OF NORTHWEST 3RD AVENUE AND NORTHWEST 12TH STREET.
- 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 LENGEMANN GPS RTK NETWORK. BEARING BASIS OF NORTH 88°28'57" EAST BETWEEN NAIL AND TIN TABS SET AT STATIONS 30+00 (N 699365.89, E 940000.55) AND 32+00 (N 699371.19, E 940200.48) ALONG N.W. 20TH STREET.
- HORIZONTAL CONTROL POINTS USED FOR THIS SURVEY:

EASTERN BROWARD COUNTY HORIZONTAL GPS COUNTY NETWORK POINT "110", NORTING (N) = 701,306.576 FEET, EASTING (E) = 939,508.381 FEET, ELLIPSOID HEIGHT = -20.4 METERS, DESCRIPTION - A 5/8 INCH IRON ROD AND CAP (WHS-F026) LOCATED IN THE MEDIAN OF COPANS ROAD, ACROSS FROM THE EASTBOUND EXIT RAMP OF I-95. JUST EAST OF THE GORE POINT OF THE TWO ROADS.

EASTERN BROWARD COUNTY HORIZONTAL GPS COUNTY NETWORK POINT "K11", NORTING (N) = 698,777.714 FEET, EASTING (E) = 944,647.669 FEET, ELLIPSOID HEIGHT = -19.7 METERS, DESCRIPTION - A BROWARD COUNTY ENGINEERING DEPARTMENT (BCED) G.P.S. PK NAIL AND WASHER LOCATED IN THE CONCRETE CURB AND GUTTER ON THE EAST SIDE OF DIXIE HIGHWAY AT THE APPROXIMATE PROJECTED CENTERLINE OF NORTHEAST 18TH STREET.

BY GRAPHIC PLOTTING ONLY, THE SUBJECT PROPERTY LIES WITHIN ZONE X (SHADED), AS SHOWN ON THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 1201C0170H, PANEL 170 OF 751, EFFECTIVE DATE: AUGUST 18, 2014.

ALL SUBSURFACE LOCATIONS DEPICTED HEREON ARE AS MARKED OUT IN THE FIELD BY OTHERS, UNDER "SUNSHINE STATE ONE CALL" TICKET NUMBERS 203505255, 203505349, 203505421, 203505485 AND 203505607. COMPASS POINT SURVEYORS, PL ASSUMES NO LIABILITY AS TO THE ACCURACY OF THE SUBSURFACE LOCATIONS AS MARKED OUT BY OTHERS.

LIMITATIONS:

- PURPOSE OF SURVEY: TO SHOW IMPROVEMENTS AND ELEVATIONS IN THE AREAS SPECIFIED BY THE CLIENT FOR USE IN THE PURPOSE OF UTILITY DESIGN.
- LAST FIELD DATE OF SURVEY: 08/05/15, AS REFERENCED IN FIELD BOOK 368, PAGES 1-11.
- 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.
- PRINTED DIMENSIONS SHOWN HEREON SUPERSEDE SCALED DIMENSIONS. ITEMS AND SYMBOLS SHOWN MAYBE BE DRAWN OUT OF SCALE FOR PURPOSES OF CLARITY.
- 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.
- 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 6258
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
BPP BLACK PLASTIC PIPE	FF FINISH FLOOR ELEVATION	R RADIUS
BST BELLSOUTH TELEPHONE	FND FOUND	R/C ROD AND CAP
CL CENTERLINE	FM FORCE MAIN	RCP REINFORCED CONCRETE PIPE
C CALCULATED	HH HAND HOLE	R/W RIGHT OF WAY
CFT CALCULATED FROM FIELD TRAVERSE	HDPE HIGH DENSITY POLYETHYLENE	RWM RIGHT OF WAY MAP
C.L.F. CHAIN LINK FENCE	INV INVERT	S.A.D. SWALED ASPHALT DRIVE
CLP CONCRETE LIGHT POLE	IRC IRON ROD & CAP	S.C.D. SWALED CONCRETE DRIVE
CMP CORRUGATED METAL PIPE	L LENGTH	SEC SECTION
CMU CONCRETE MASONRY UNIT	LF LINEAR FEET	STA STATION
CONC CONCRETE	LSA LANDSCAPE AREA	SWK CONCRETE SIDEWALK
CP CONCRETE PIPE	MP METAL PIPE	TOB TOP OF BANK
D CENTRAL ANGLE	N/A NOT ACCESSIBLE	TOS TOE OF SLOPE
D.E. DRAINAGE EASEMENT	NID NAIL AND DISK	T.O.N. TOP OF NUT
DIP DUCTILE IRON PIPE	OHL OVERHEAD LINE	T.O.P. TOP OF PIPE
DEP DEPRESSED (CURB)	O.R.P. OFFICIAL RECORD BOOK	T.O.W. TOP OF WALL
EL ELEVATION	P.B. PLAT BOOK	(TYP) TYPICAL
EP EDGE OF PAVEMENT	PG PAGE	U.E. UTILITY EASEMENT
EQW EDGE OF WATER	PK PARKER-KALON BRAND	UNK UNKNOWN
ERCP ELLIPTICAL REINFORCED CONCRETE PIPE	POC POINT OF CURVATURE	VGP VALLEY GUTTER
	POT POINT OF TANGENCY	VPT VITRIFIED CLAY PIPE
		WPP WOOD POWER POLE

SURVEY SYMBOL LEGEND:

DIAMETER	ELECTRIC OUTLET	CATCH BASIN	AIR RELEASE VALVE
BACK FLOW PREVENTER	WATER METER	RED FLAG	COMMUNICATION MANHOLE
IRRIGATION VALVE	SANITARY VALVE	WHITE FLAG	ELECTRICAL MANHOLE
WATER VALVE	SPIGOT	BLUE FLAG	UNKNOWN TYPE MANHOLE
SIGN	OVERHEAD UTILITY WIRE	YELLOW FLAG	DECORATIVE MAILBOX
EXISTING ELEVATION	FIRE HYDRANT	ORANGE FLAG	SANITARY MANHOLE
FIRE DEPT. CONNECTION	WOOD UTILITY POLE	GREEN FLAG	STORM MANHOLE
CONCRETE POWER POLE	GROUND LIGHT	BLUE PAINT MARKS	LIMITS OF LANDSCAPING
WOOD POLE STREET LIGHT	CONC POLE STREET LIGHT	RED PAINT MARKS	LIMITS OF TREE CANOPY
METAL POLE STREET LIGHT	FIBER OPTIC MARKER	GREEN PAINT MARKS	BUSH/HEDGE
ELECTRIC METER	ELECTRIC HANDHOLD	ORANGE PAINT MARKS	CLEAN OUT
UNKNOWN HANDHOLD	CABLE/TV HANDHOLD	PURPLE PAINT MARKS	GUY WIRE ANCHOR
ELECTRIC BOX	IRRIGATION CONTROL VALVE	WHITE PAINT MARKS	SITE BENCHMARK
PARKING METER	RECLAIMED WATER VALVE	YELLOW PAINT MARKS	RIGHT-OF-WAY LINE
KEY PAD	ELECTRIC TRANSFORMER	SPRINKLER HEAD	LANDSCAPE AREA
CURB INLET	WOOD POST	LIGHT POST	GUARD RAIL
TELEPHONE PULLBOX	FOUND NAIL & DISK	MAILBOX WOOD	BURIED COMMUNICATION
FOUND DRILL HOLE	FOUND IRON ROD	GUY POLE	BURIED SANITARY PIPE
FOUND OPEN PIPE	FOUND IRON ROD & CAP	CONCRETE SIGNAL POLE	BURIED WATER MAIN
		TRASH CAN	BURIED ELECTRICAL
		MONITORING WELL	DECORATIVE LIGHT POST
		ELECTRICAL PANEL	CONCRETE LIGHT POST
		TRAFFIC HANDHOLD	GAS LID
		GAS TEST BOX	TRAFFIC SIGNAL BOX
		UNKNOWN RISER BOX	FIBER OPTIC HANDHOLE
		CONCRETE UTILITY POLE	UNDERGROUND GAS MARKER
		CABLE PEDESTAL	YARD DRAIN
		DOUBLE WATER METER	SQUARE YARD DRAIN
		WATER WELL	COMMUNICATION PEDESTAL
		ANTENNA	FLAG POLE
		FOUND IRON ROD	ROCK
		FOUND IRON ROD & CAP	DOUBLE DETECTOR CHECK VALVE
		FOUND OPEN PIPE	ELECTRICAL PULLBOX

SURVEY TREE LEGEND:

- ACACIA	- UNKNOWN	- CITRUS	- PAPAIA
- PALM SPECIES	- BOTTLEBRUSH	- CACTUS	- CYPRESS
- BANANA	- MAPLE	- MANGO	- GUMBO-LIMBO
- FICUS	- MAHOGANY	- HEDGE	- SCHEFFLERA
- SEAGRAPE	- OAK	- BUSH	- PINE

INDICATES TRUNK DIAMETER

NOTE: VERIFICATION OF TREE SPECIES SHOULD BE CONDUCTED BY A PROFESSIONAL ENGAGED IN THE FIELD OF NATURAL SCIENCE.

SURVEY PREPARED BY:

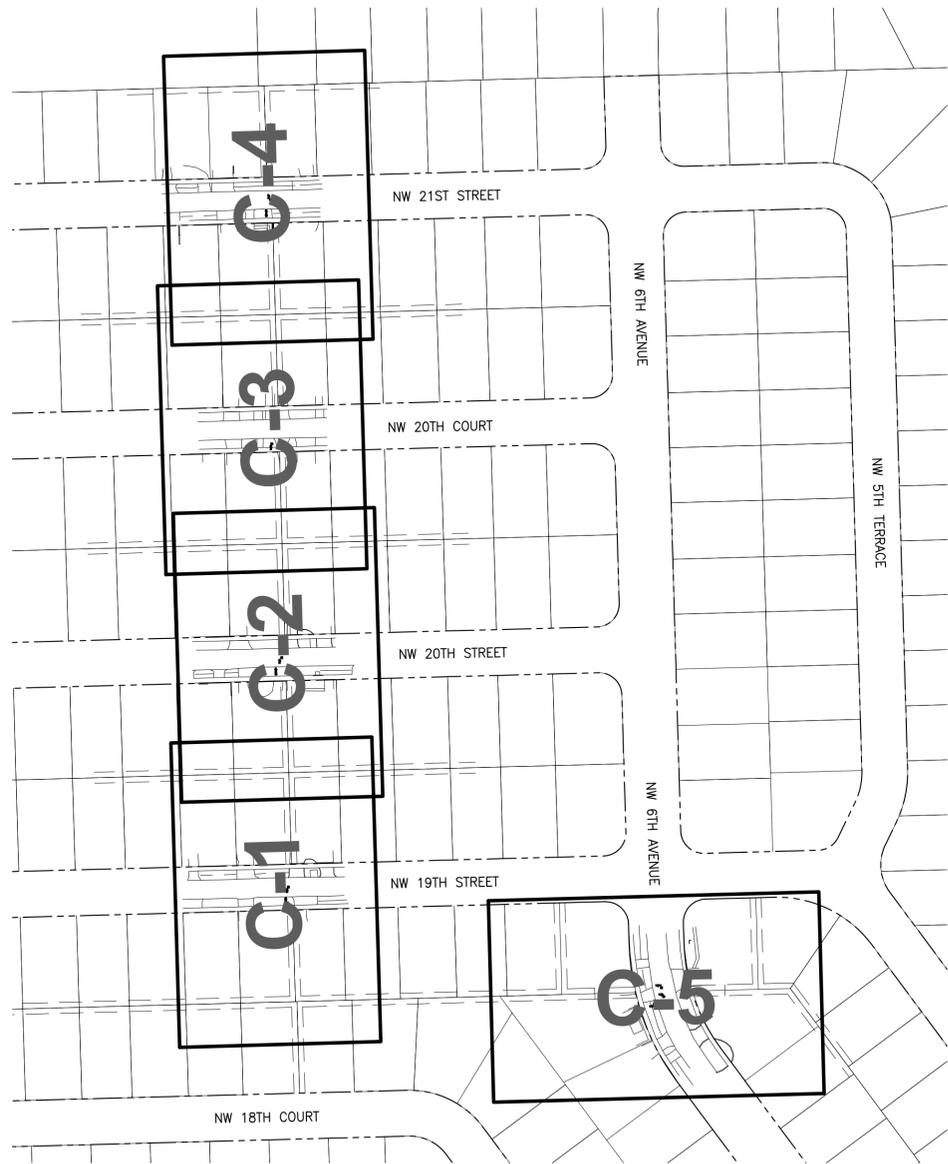


2101 N.W. 33RD STREET, SUITE 100, POMPANO BEACH, FL 33069 - PH. 954.332.8181 - LB No.: 7535

NO.	DATE	ISSUED FOR	APRV'D BY	DESIGNED: D.L.M./C.K.M.	VERIFY SCALE BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.	ENGINEER NO.: 1814	CITY OF POMPANO BEACH LIBERTY PARK SEWER IMPROVEMENTS	DATE: FEBRUARY 2016
				DRAWN: J.A.J.	CLIENT PROJECT NO.: 04-870			SHEET: 2 of 11
				CHECKED: A.C.	CAD REF.: 1814G02			DRAWING: G-2
				APPROVED: D.L.M.	DAVID L. MATHEWS, P.E. No. 48242		SURVEY LEGEND AND GENERAL NOTES	

BIDDING

Acad Version : R19.0s (LMS Tech) User Name : Jenkins
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 Current Plotstyle : B\Color Layout Tab: G-3



KEY MAP
NTS



HORIZONTAL CONTROL DETAIL
NTS

SITE BENCHMARKS (NAVD 88):

<p>BENCHMARK 1 SET NAIL & TIN TAB STA: 12+00 N: 69871.06 E: 940187.22 BM EL: 12.20</p>	<p>BENCHMARK 3 SET NAIL & TIN TAB STA: 32+00 N: 699371.21 E: 940200.42 BM EL: 12.41</p>	<p>BENCHMARK 5 SET NAIL & TIN TAB STA: 52+00 N: 699095.74 E: 940523.43 BM EL: 12.69</p>
<p>BENCHMARK 2 SET NAIL & TIN TAB STA: 22+00 N: 699121.23 E: 940193.83 BM EL: 12.15</p>	<p>BENCHMARK 4 SET NAIL & TIN TAB STA: 42+00 N: 699121.23 E: 940207.16 BM EL: 12.57</p>	

NO.	DATE	ISSUED FOR	APRVD BY	DESIGNED: D.L.M./C.K.M.
				DRAWN: J.A.J.
				CHECKED: A.C.
				APPROVED: D.L.M.
				DAVID L. MATHEWS, P.E. No. 48242

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VERIFY SCALE
1" = 100'
BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

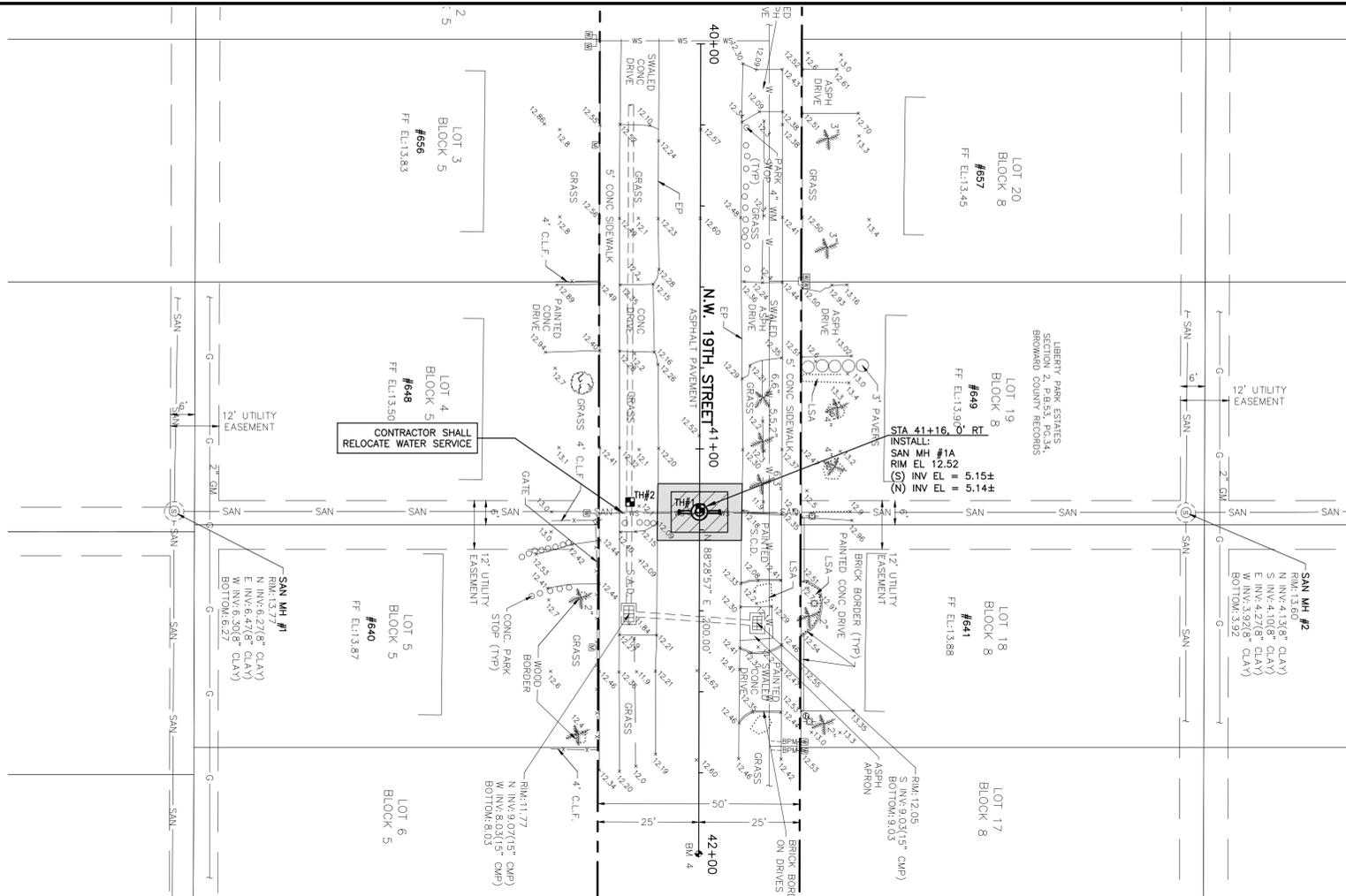
ENGINEER NO.: 1814
CLIENT PROJECT NO.: 04-870
CAD REF.: 1814G03

CITY OF POMPAÑO BEACH
LIBERTY PARK SEWER IMPROVEMENTS

KEY MAP AND HORIZONTAL CONTROL DETAIL

DATE: FEBRUARY 2016
SHEET: 3 of 11
DRAWING: G-3

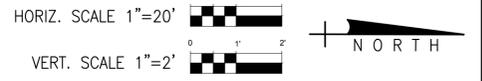
BIDDING



TH #1
SANITARY
COVER=6.72'±
T.O.P.=5.83'±

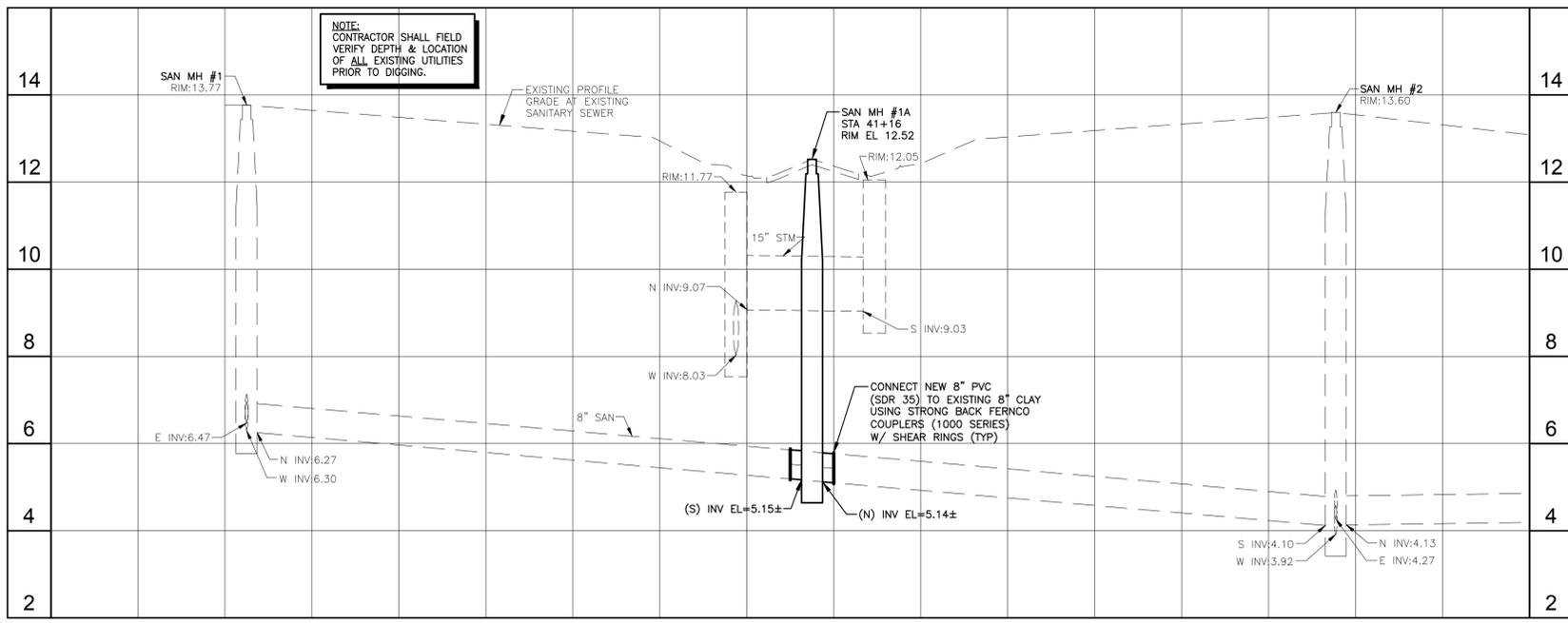
TH #2
15" (CMP) STORM
COVER=2.16'±
T.O.P.=9.94'±

FOR CONTINUATION
(SEE DRAWING C-2)

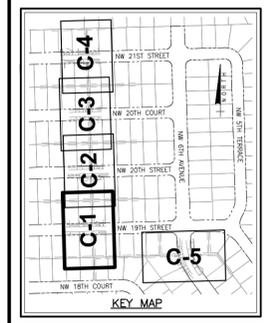


- NOTES:
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UTILITY CROSSINGS, INCLUDING PARALLELING OF UTILITIES, PRIOR TO CONSTRUCTION OF PROPOSED SANITARY MANHOLES & SEWER PIPING.
 - IRRIGATION SYSTEMS NOT SHOWN, BUT DO EXIST THROUGHOUT PROJECT AREA. CONTRACTOR SHALL REPLACE ALL DAMAGED IRRIGATION PIPING, HEADS AND CONTROL LINES IN KIND, SO THAT SYSTEM PROVIDES ORIGINAL COVERAGE. ZONES TO BE CAPPED OFF AT CONSTRUCTION LINE. BALANCE OF IRRIGATION ZONES TO REMAIN ACTIVE AND MAINTAINED.
 - CONTRACTOR SHALL REFER TO DETAILS ON DRAWINGS D-1 THROUGH D-4 FOR STANDARD DETAIL CONSTRUCTION INFORMATION.
 - ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED IN KIND.
 - IN AREAS OF UNDERGROUND UTILITIES CONTRACTOR SHALL HAND-DIG AS NECESSARY TO AVOID DAMAGING EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY DAMAGED UTILITIES AS A RESULT OF CONSTRUCTION ACTIVITIES.
 - POTABLE WATER SERVICE LINES NOT SHOWN, BUT DO EXIST THROUGHOUT PROJECT AREA. IF SHOWN, THEY ARE APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL LOCATE ALL WATER SERVICE LINES PRIOR TO DIGGING. CONTRACTOR SHALL REPAIR ANY WATER SERVICE LINES DAMAGED DURING CONSTRUCTION IMMEDIATELY.
 - CONTRACTOR SHALL COORDINATE WITH FPL FOR SERVICES TO TEMPORARILY SECURE/HOLD EXISTING POWER POLES WHICH ARE IN CLOSE PROXIMITY TO THE CONSTRUCTION TRENCH EXCAVATION AS REQUIRED.
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- LEGEND
- PROPOSED 1" MILL & 1" OVERLAY (S-III)
 - OPEN CUT PAVEMENT REPAIR
 - PROPOSED ASPHALT DRIVEWAY REPLACEMENT
 - PROPOSED CONCRETE DRIVEWAY REPLACEMENT
 - PROPOSED BRICK DRIVEWAY RESTORATION
 - PROPOSED CONCRETE SIDEWALK REPLACEMENT
 - PROPOSED SWALE REGRADING
- TH#1 [Symbol] TEST HOLE LOCATION
B-1 [Symbol] SOIL BORING LOCATION
[Symbol] CONFLICT



NOTE:
CONTRACTOR SHALL FIELD VERIFY DEPTH & LOCATION OF ALL EXISTING UTILITIES PRIOR TO DIGGING.



BIDDING

NO.	DATE	ISSUED FOR	APRVD BY	DESIGNED: D.L.M./C.K.M.
				DRAWN: J.A.J.
				CHECKED: A.C.
				APPROVED: D.L.M.
				DAVID L. MATHEWS, P.E. No. 48242

MATHEWS CONSULTING

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Phone: 561-655-6175 Fax: 561-655-6179
www.matthewsconsultinginc.com EB-0007929

VERIFY SCALE

1" = 20'

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

ENGINEER NO.: 1814

CLIENT PROJECT NO.: 04-870

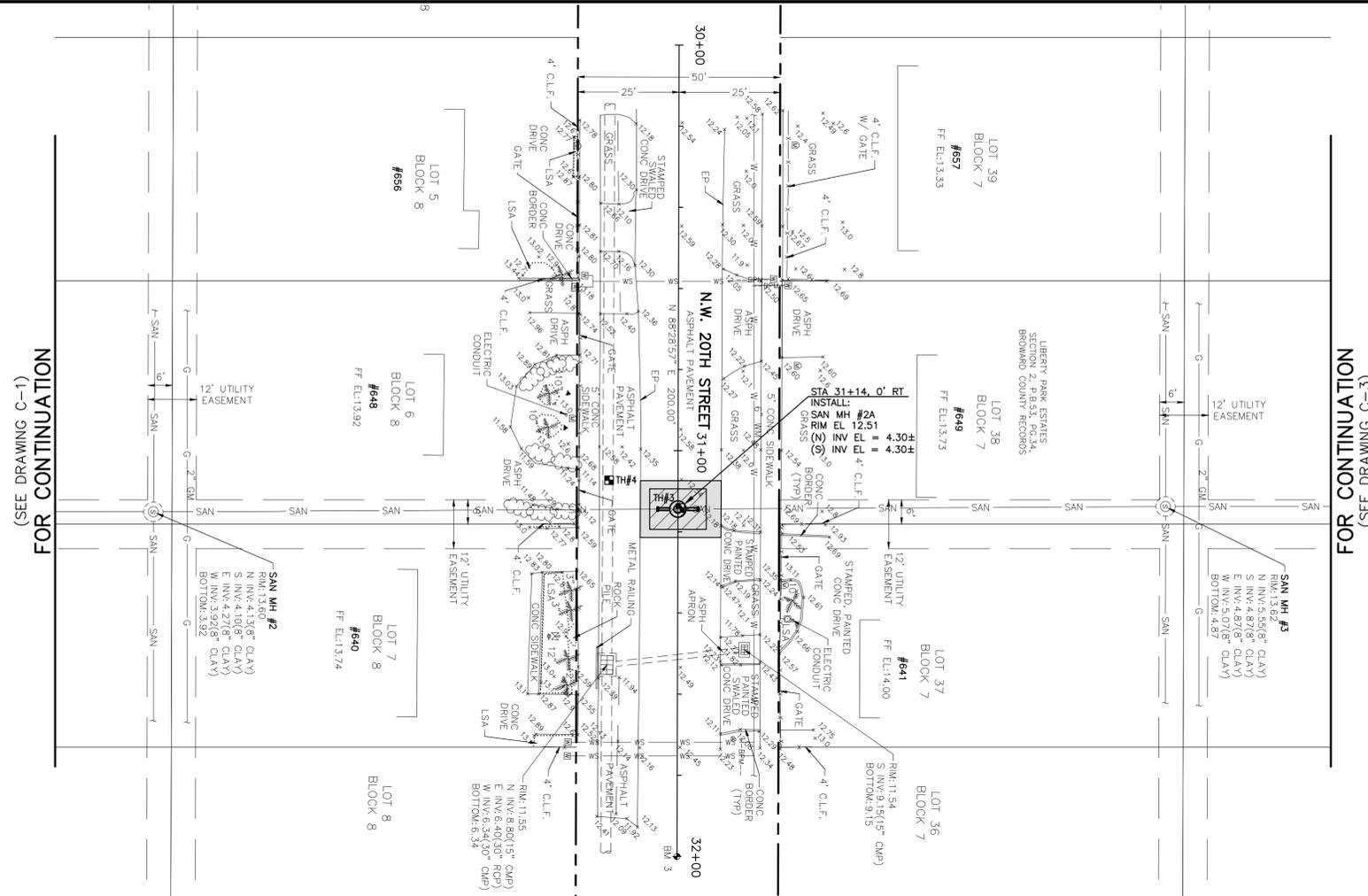
CAD REF.: 18143P&P

CITY OF POMPANO BEACH
LIBERTY PARK SEWER IMPROVEMENTS

NW 19TH STREET
PLAN AND PROFILE - SHEET 1
SAN MH #1 TO SAN MH #2

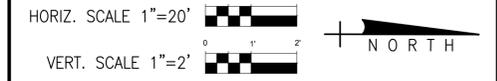
DATE: FEBRUARY 2016
SHEET: 4 of 11
DRAWING: C-1

Date/Time : Tue, 09 Feb 2016 1:30pm Current Plotstyle : BColor Layout Tab: C-1 Path Name : S:\Projects\Pompano\1814-Liberty Park Sewer Improvements\CAD\Working Folder\1814P&P.DWG User Name : jenkins Acad Version : R19.0s (LMS Tech)



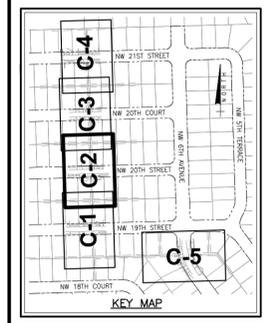
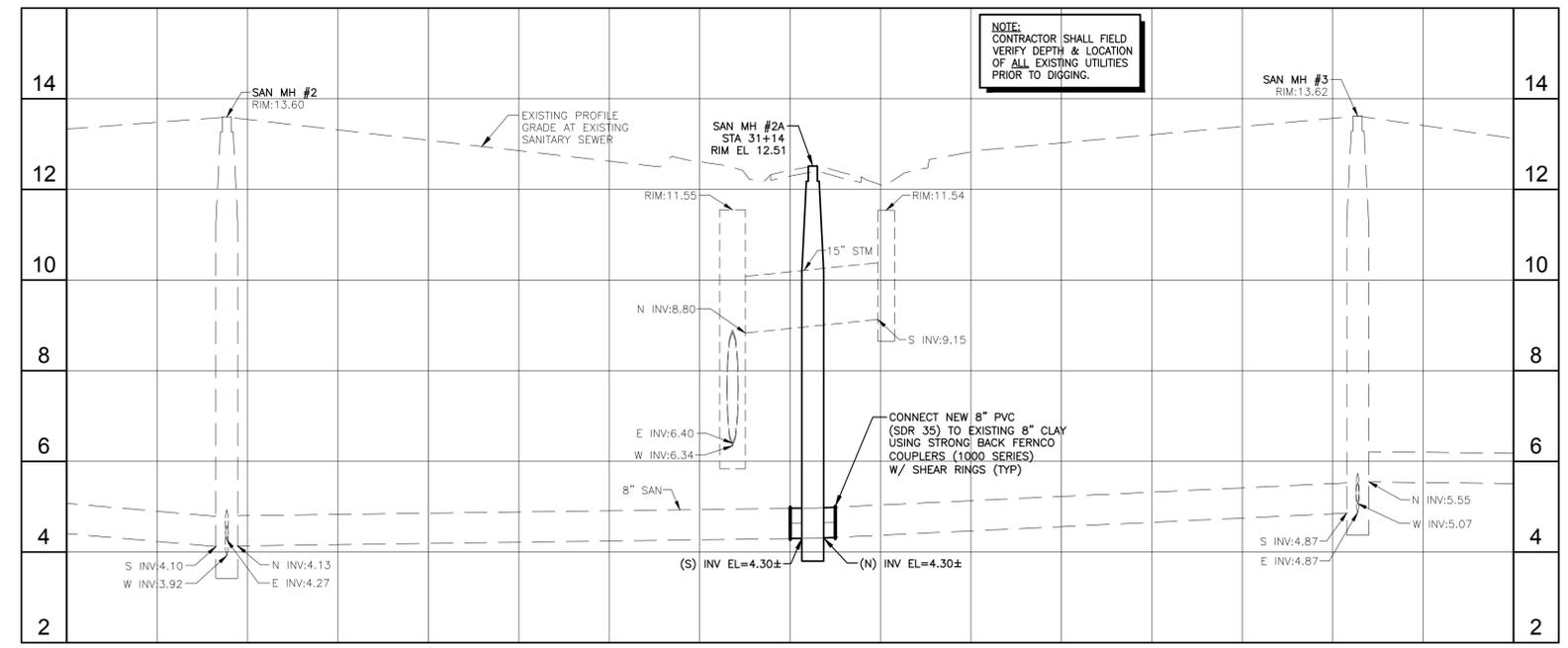
TH #3
SANITARY
COVER=7.54'±
T.O.P.=4.97'±

TH #4
30" (CMP) STORM
COVER=3.87'±
T.O.P.=8.68'±



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 - PROPOSED ASPHALT DRIVEWAY REPLACEMENT
 - PROPOSED CONCRETE DRIVEWAY REPLACEMENT
 - PROPOSED BRICK DRIVEWAY RESTORATION
 - PROPOSED CONCRETE SIDEWALK REPLACEMENT
 - PROPOSED SWALE REGRAIDING
- TH#1 TEST HOLE LOCATION
 B-1 SOIL BORING LOCATION
 CONFLICT



BIDDING

NO.	DATE	ISSUED FOR	APRVD BY

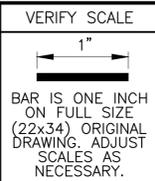
DESIGNED: D.L.M./C.K.M.
 DRAWN: J.A.J.
 CHECKED: A.C.
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DAVID L. MATHEWS, P.E.
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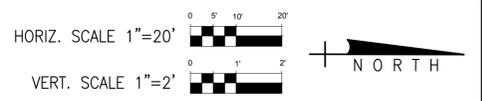
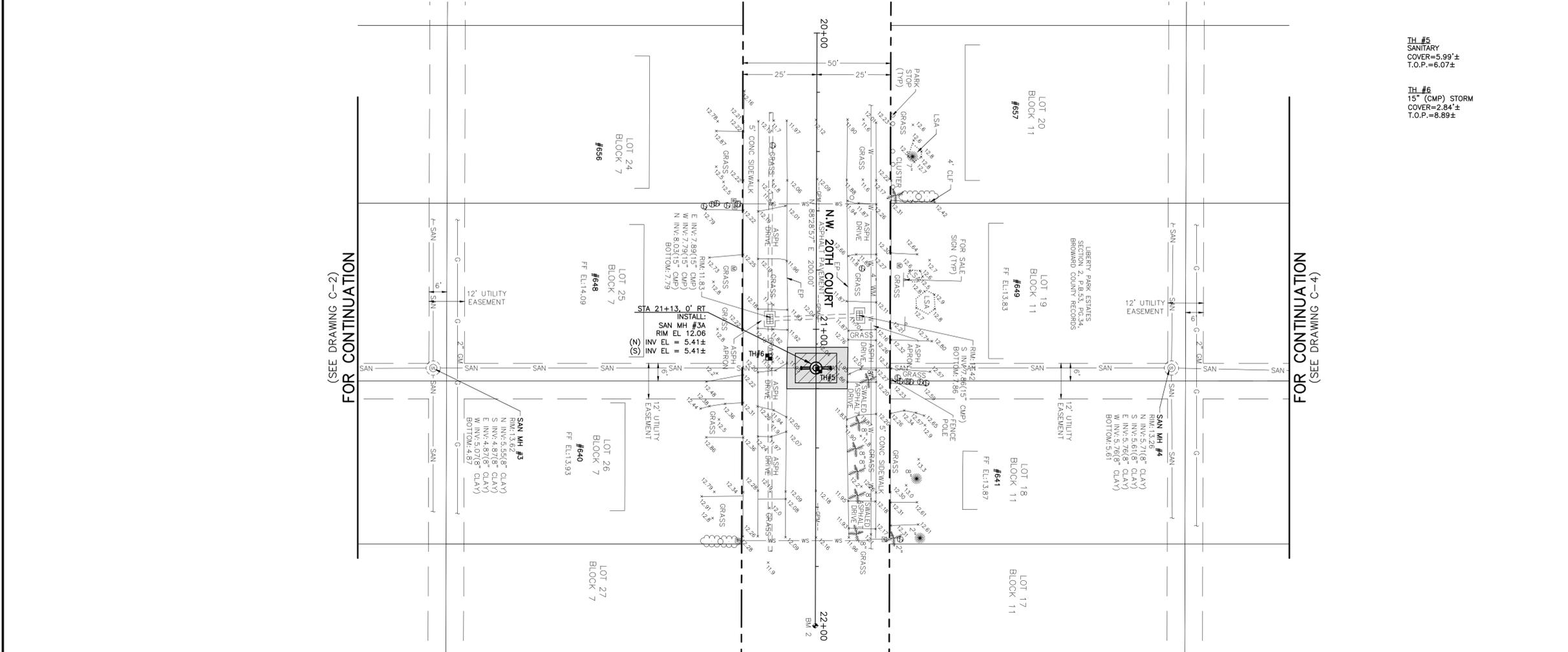
ENGINEER NO.: 1814
 CLIENT
 PROJECT NO.: 04-870
 CAD REF.: 18143P&P

CITY OF POMPAÑO BEACH
 LIBERTY PARK SEWER IMPROVEMENTS

NW 20TH STREET
 PLAN AND PROFILE - SHEET 2
 SAN MH #2 TO SAN MH #3

DATE: FEBRUARY 2016
 SHEET: 5 of 11
 DRAWING: C-2

Acad Version : R19.0s (LMS Tech) User Name : jenkins Date/Time : Tue, 09 Feb 2016 - 1:31pm Path Name : S:\Projects\Pompano\1814-Liberty Park Sewer Improvements\CAD\Working Folder\1814P&P.DWG

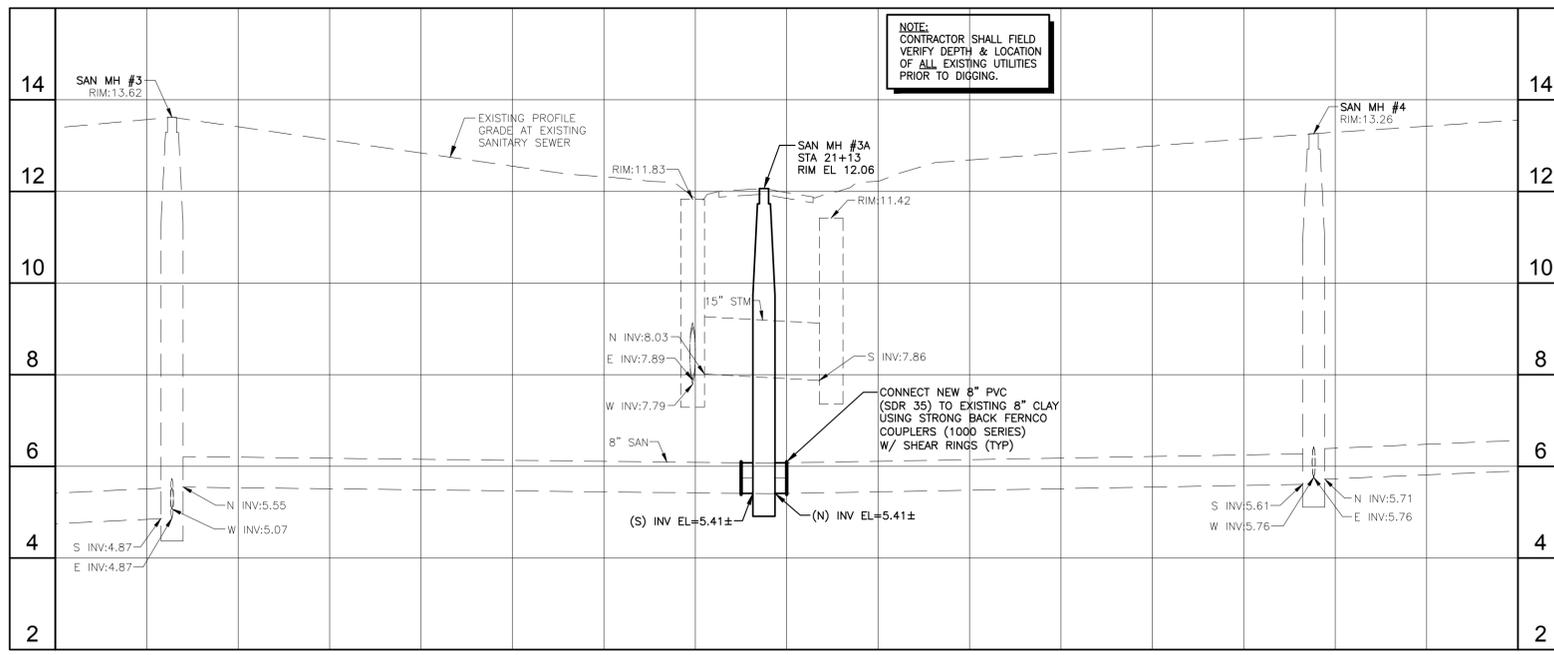


TH #5
SANITARY
COVER=5.99'±
T.O.P.=6.07'±

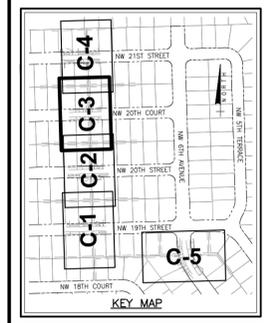
TH #6
15" (CMP) STORM
COVER=2.84'±
T.O.P.=8.89'±

- NOTES:**
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UTILITY CROSSINGS, INCLUDING PARALLELING OF UTILITIES, PRIOR TO CONSTRUCTION OF PROPOSED SANITARY MANHOLES & SEWER PIPING.
 - IRRIGATION SYSTEMS NOT SHOWN, BUT DO EXIST THROUGHOUT PROJECT AREA. CONTRACTOR SHALL REPLACE ALL DAMAGED IRRIGATION PIPING, HEADS AND CONTROL LINES IN KIND, SO THAT SYSTEM PROVIDES ORIGINAL COVERAGE. ZONES TO BE CAPPED OFF AT CONSTRUCTION LINE. BALANCE OF IRRIGATION ZONES TO REMAIN ACTIVE AND MAINTAINED.
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 - PROPOSED BRICK DRIVEWAY RESTORATION
 - PROPOSED CONCRETE SIDEWALK REPLACEMENT
 - PROPOSED SWALE REGRADING
- TH#1 ■ TEST HOLE LOCATION
B-1 ● SOIL BORING LOCATION
⊠ CONFLICT



NOTE:
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NO.	DATE	ISSUED FOR	APR'D BY	DESIGNED: D.L.M./C.K.M.
				DRAWN: J.A.J.
				CHECKED: A.C.
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VERIFY SCALE

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

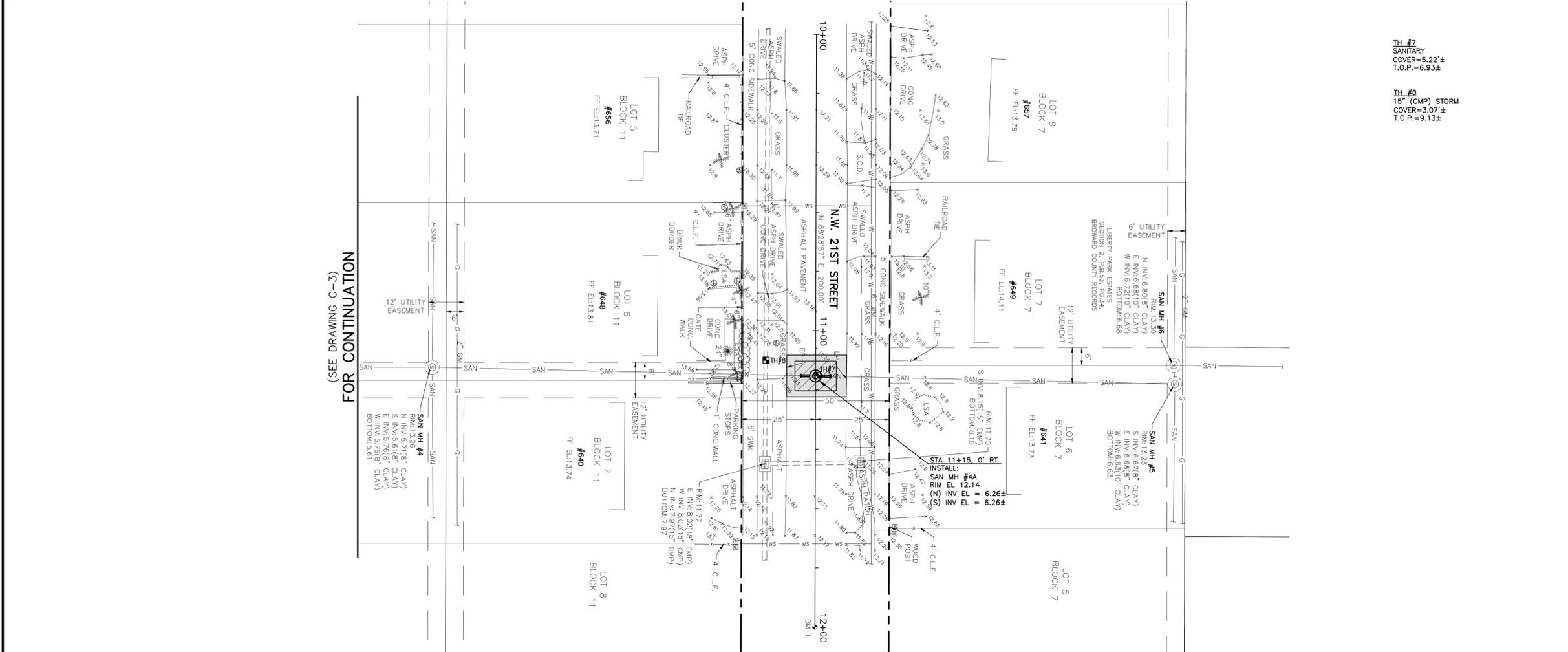
ENGINEER NO.: 1814
 CLIENT PROJECT NO.: 04-870
 CAD REF.: 18143P&P

CITY OF POMPAÑO BEACH
LIBERTY PARK SEWER IMPROVEMENTS
 NW 20TH COURT
 PLAN AND PROFILE - SHEET 3
 SAN MH #3 TO SAN MH #4

DATE: FEBRUARY 2016
SHEET: 6 of 11
DRAWING: C-3

BIDDING

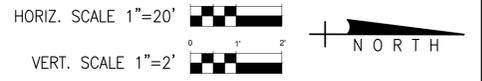
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(SEE DRAWING C-3)
FOR CONTINUATION

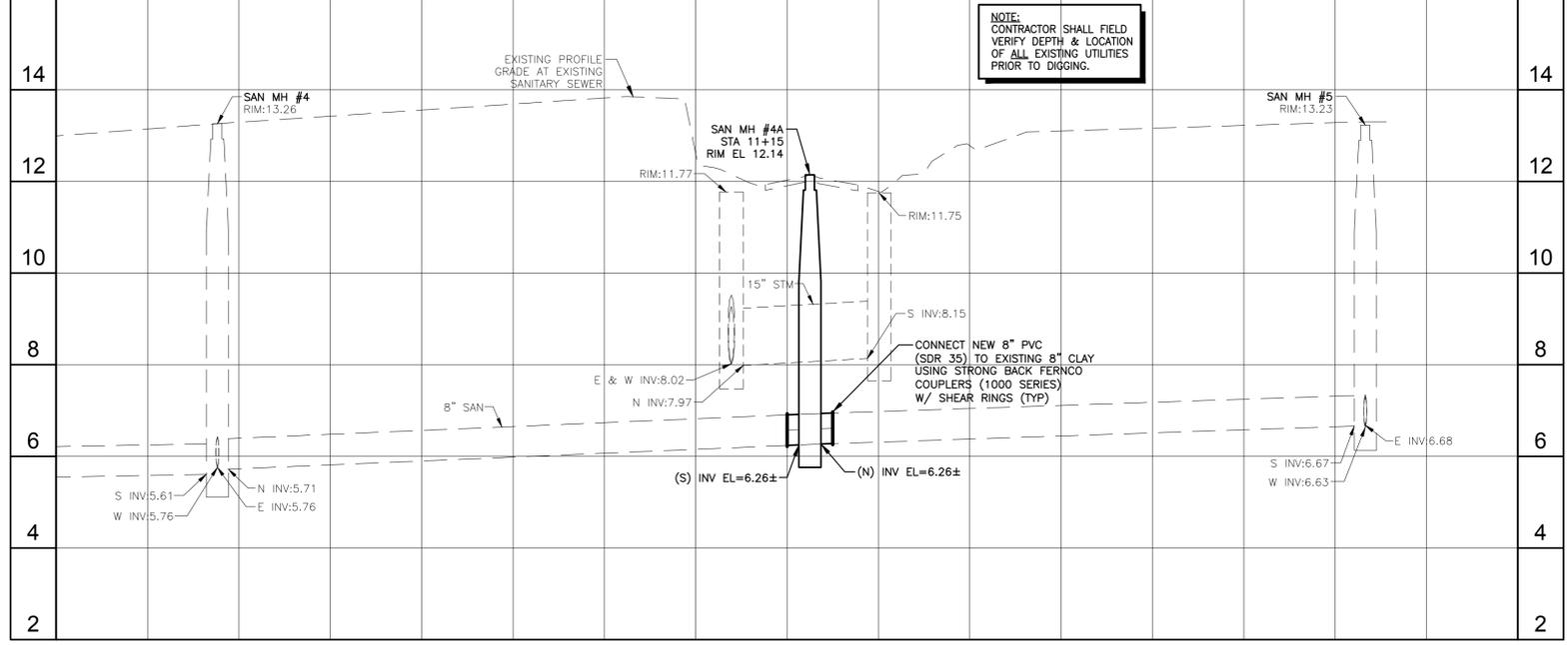
TH #7
SANITARY
COVER=5.22'±
T.O.P.=6.93'±

TH #8
15" (CMP) STORM
COVER=3.07'±
T.O.P.=9.13'±



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 B-1 SOIL BORING LOCATION
 CONFLICT



NOTE:
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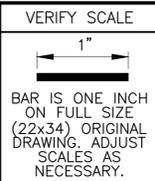
DESIGNED: D.L.M./C.K.M.
 DRAWN: J.A.J.
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DAVID L. MATHEWS, P.E.
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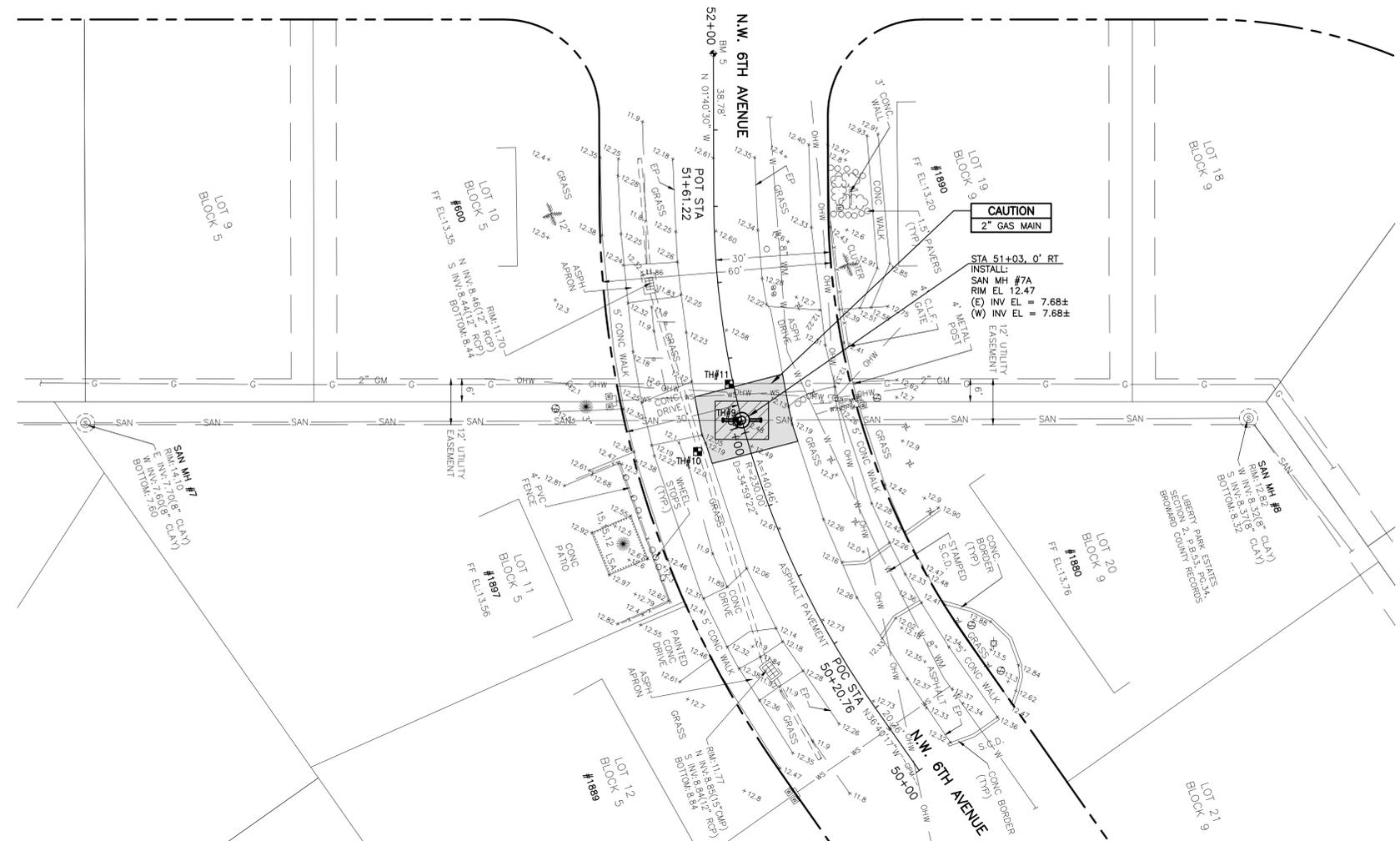
ENGINEER NO.: 1814
 CLIENT
 PROJECT NO.: 04-870
 CAD REF.: 18143P&P

CITY OF POMPAÑO BEACH
 LIBERTY PARK SEWER IMPROVEMENTS

NW 21ST STREET
 PLAN AND PROFILE - SHEET 4
 SAN MH #4 TO SAN MH #5

DATE: FEBRUARY 2016
 SHEET: 7 of 11
 DRAWING: C-4

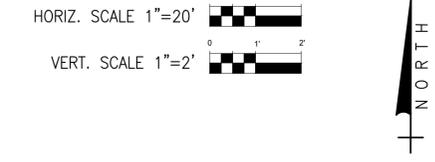
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 User: jenkins
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 Current Plotstyle: ByColor
 Layout Tab: C-5



TH #9
 SANITARY
 COVER=4.13'±
 T.O.P.=8.34±

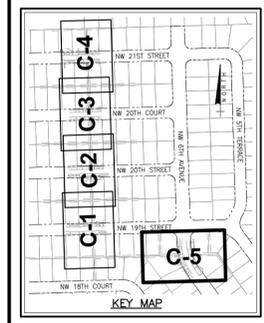
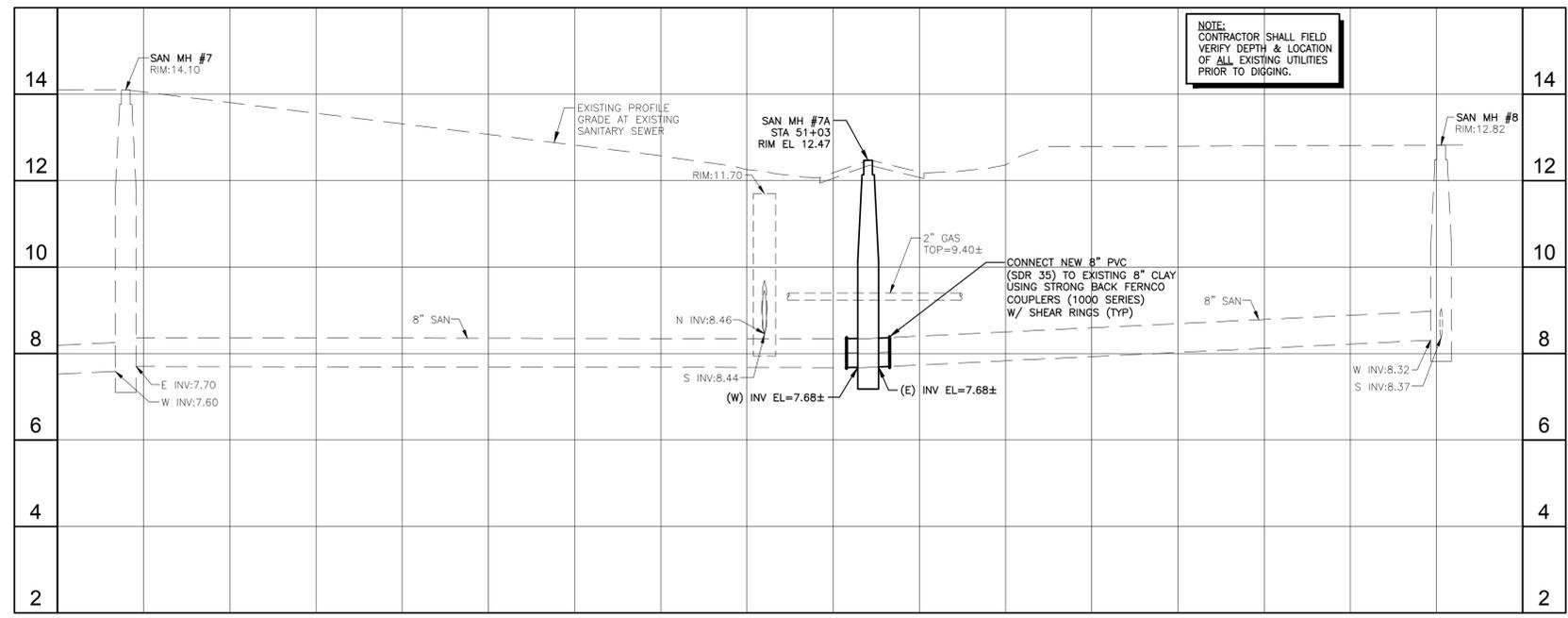
TH #4
 15" (CMP) STORM
 COVER=2.56'±
 T.O.P.=9.59±

TH #4
 2" (WRAPPED STEEL) GAS
 COVER=3.12'±
 T.O.P.=9.40±



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 - PROPOSED SWALE REGRAIDING
 - TH#1 TEST HOLE LOCATION
 - B-1 SOIL BORING LOCATION
 - CONFLICT

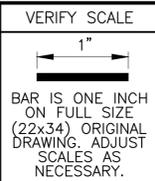


BIDDING

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DESIGNED: D.L.M./C.K.M.
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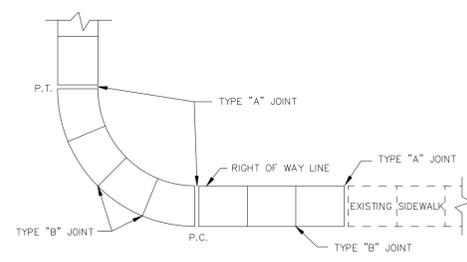
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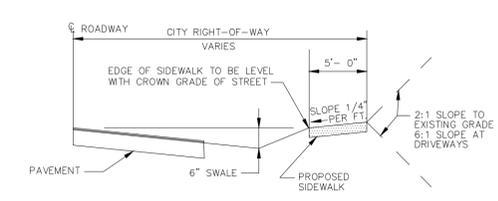
ENGINEER NO.: 1814
 CLIENT
 PROJECT NO.: 04-870
 CAD REF.: 18143P&P

CITY OF POMPAO BEACH
LIBERTY PARK SEWER IMPROVEMENTS
 NW 6TH AVENUE
 PLAN AND PROFILE - SHEET 5
 SAN MH #7 TO SAN MH #8

DATE: FEBRUARY 2016
 SHEET: 8 of 11
 DRAWING: C-5



PLAN



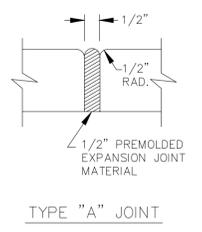
TYPICAL SIDEWALK SECTION

SIDEWALK DETAILS

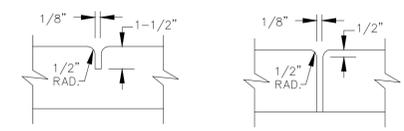
ENGINEERING STANDARDS 2016

REVISIONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	SIDEWALK DETAILS	DATE: JUNE 2005 DWG. NO. 301-1
BY	DATE			
		SCALE: N.T.S.		

TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
"A"	JOINT SHALL BE PLACED AT P.C. AND P.T. OF CURVES, JUNCTION OF EXISTING SIDEWALKS, EVERY 60' ON NEW SIDEWALKS AND WHERE SIDEWALKS ABUT CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES.
"B"	JOINT SHALL BE PLACED 5'-0" CENTER
"C"	JOINT SHALL BE PLACED AT 20' INTERVALS



TYPE "A" JOINT



TYPE "B" JOINT

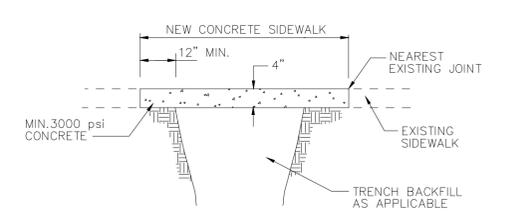
TYPE "C" JOINT

NOTE: SIDEWALK SHALL BE 4" THICK EXCEPT IN DRIVEWAYS WHERE THE THICKNESS SHALL BE 6".

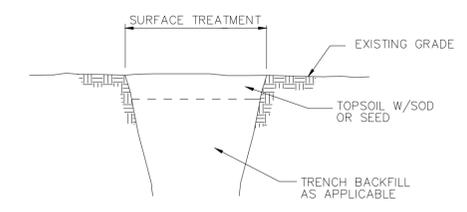
SIDEWALK DETAILS

ENGINEERING STANDARDS 2016

REVISIONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	SIDEWALK DETAILS	DATE: JUNE 2005 DWG. NO. 301-2
BY	DATE			
		SCALE: N.T.S.		



SIDEWALK RESTORATION (TYPE II)

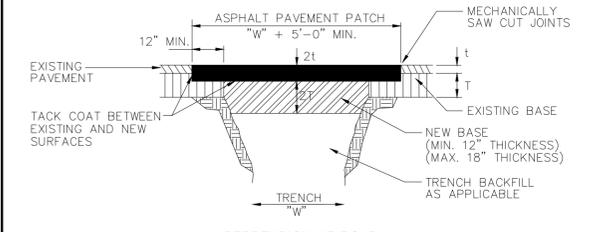


SWALE RESTORATION (TYPE I)

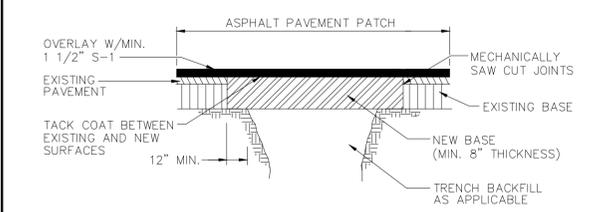
SURFACE RESTORATION

ENGINEERING STANDARDS 2016

REVISIONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	SURFACE RESTORATION	DATE: FEB. 1998 DWG. NO. 306-1
BY	DATE			
		SCALE: N.T.S.		



PERPENDICULAR ROAD CROSSINGS (TYPE III)

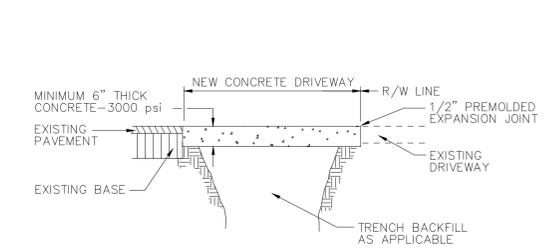


STANDARD PARALLEL ROAD RESTORATION (TYPE IV)

SURFACE RESTORATION

ENGINEERING STANDARDS 2016

REVISIONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	SURFACE RESTORATION	DATE: FEB. 1998 DWG. NO. 306-2
BY	DATE			
		SCALE: N.T.S.		

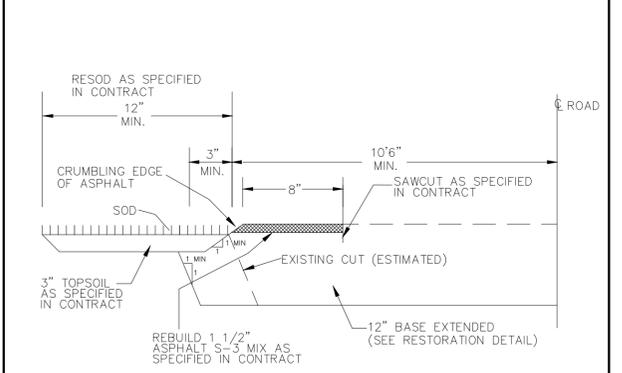


CONCRETE DRIVEWAY RESTORATION (TYPE V)

SURFACE RESTORATION

ENGINEERING STANDARDS 2016

REVISIONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	SURFACE RESTORATION	DATE: FEB. 1998 DWG. NO. 306-3
BY	DATE			
		SCALE: N.T.S.		



EDGE OF PAVEMENT RESTORATION

ENGINEERING STANDARDS 2016

REVISIONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	EDGE OF PAVEMENT RESTORATION	DATE: FEB. 1998 DWG. NO. 306-4
BY	DATE			
		SCALE: N.T.S.		

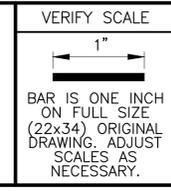
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NO.	DATE	ISSUED FOR	APR'D BY

DESIGNED: D.L.M./C.K.M.
 DRAWN: J.A.J.
 CHECKED: A.C.
 APPROVED: D.L.M.

DAVID L. MATHEWS, P.E.
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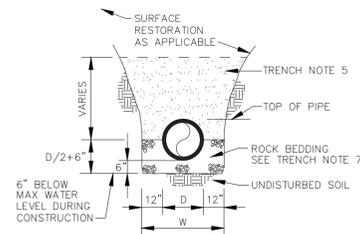


ENGINEER NO.: 1814
 CLIENT PROJECT NO.: 04-870
 CAD REF.: 1814DETAILS

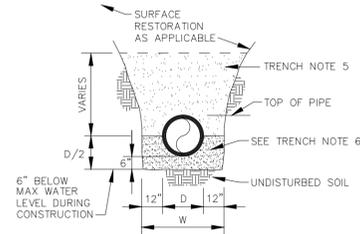
CITY OF POMPANO BEACH
 LIBERTY PARK SEWER IMPROVEMENTS
 STANDARD DETAILS - SHEET 1 OF 3

DATE: FEBRUARY 2016
 SHEET: 9 of 11
 DRAWING: D-1

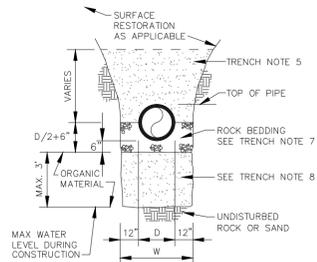
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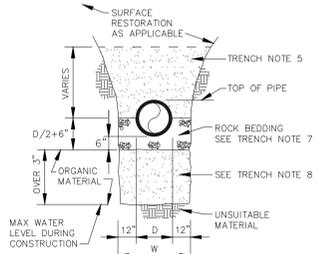
TRENCH BACKFILL / BEDDING CLASS "B"



TRENCH BACKFILL / BEDDING CLASS "A"



TRENCH BACKFILL / BEDDING CLASS "C"



TRENCH BACKFILL / BEDDING CLASS "D"

1. OUTLINE OF TRENCH EXCAVATION IS FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL TRENCH WIDTH AND SHAPE WILL VARY WITH SOIL CONDITIONS. TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH THE "FLORIDA TRENCH SAFETY ACT" AND OSHA TRENCH SAFETY STANDARDS.
2. TYPICAL TRENCH BACKFILL/BEDDING FOR WATER MAIN AND FORCE MAIN INSTALLATIONS SHALL BE CLASS "A" AS SHOWN IN DETAIL.
3. TYPICAL TRENCH BACKFILL/BEDDING FOR GRAVITY SEWER INSTALLATION SHALL BE CLASS "B" AS SHOWN IN DETAIL.
4. TRENCH BACKFILL/BEDDING CLASS "C" AND CLASS "D" SHALL BE USED FOR PIPE INSTALLATIONS WHERE UNSUITABLE TRENCH MATERIALS ARE ENCOUNTERED.
5. TRENCH ZONE BACKFILL SHALL BE MATERIAL TYPE 1 OR TYPES A THRU H, OR ANY MIXTURE THEREOF, WHERE SURFACE RESTORATION TYPE "1" IS APPLICABLE, TRENCH ZONE BACKFILL SHALL BE PLACED IN 12" LIFTS, COMPACTED TO 90% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-697 (AASHTO T-99). WHERE SURFACE RESTORATION TYPES "2", "3" AND "4" ARE APPLICABLE, TRENCH BACKFILL SHALL BE PLACED IN 8" LIFTS COMPACTED TO 98% OF THE MATERIAL'S DENSITY AS DETERMINED BY ASTM D-698 (AASHTO T-99).
6. BEDDING MATERIAL FOR TYPICAL WATER MAIN AND FORCE MAIN INSTALLATION SHALL BE TYPE C. BEDDING SHALL BE COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 (AASHTO T-180).
7. BEDDING MATERIAL FOR TYPICAL GRAVITY SEWER INSTALLATION AND ANY INSTALLATION WHERE UNSUITABLE TRENCH BOTTOM CONDITIONS ARE FOUND SHALL BE TYPE E. BEDDING SHALL BE PLACED IN LIFTS NOT TO EXCEED 6" AND COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 (AASHTO T-180).
8. UNSUITABLE MATERIAL SHALL BE REMOVED TO UNDISTURBED ROCK OR SAND OR TO DEPTH AS SPECIFIED BY ENGINEER. BACKFILL MATERIAL SHALL BE TYPE C. BACKFILL SHALL BE PLACED IN 8" LIFTS COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 (AASHTO T-180).

TRENCH BACKFILL / BEDDING NOTES

9. BEDDING TYPES - THE FOLLOWING TYPES OF SUITABLE MATERIALS ARE DESIGNATED AND DEFINED AS FOLLOWING:
- TYPE A: CRUSHED LIMESTONE OR SAND WITH 100 PERCENT PASSING A 1 INCH SIEVE AND A SAND EQUIVALENT VALUE NOT LESS THAN 50.
- TYPE B: CRUSHED LIMESTONE OR SAND WITH 100 PERCENT PASSING A 1/2 INCH SIEVE AND A SAND EQUIVALENT VALUE NOT LESS THAN 50.
- TYPE C: SAND WITH 100 PERCENT PASSING A 3/8 INCH SIEVE, AT LEAST 90 PERCENT PASSING A NUMBER 4 SIEVE, AND A SAND EQUIVALENT VALUE NOT LESS THAN 30.
- TYPE D: CRUSHED LIMESTONE WITH 100 PERCENT PASSING A 1 INCH SIEVE AND NOT MORE THAN 10 PERCENT A NUMBER 4 SIEVE.
- TYPE E: CRUSHED LIMESTONE OR SAND WITH 100 PERCENT PASSING A 3/4 INCH SIEVE AND NOT MORE THAN 10 PERCENT PASSING A NUMBER 4 SIEVE.
- TYPE F: CRUSHED LIMESTONE MEETING THE FOLLOWING GRADATION REQUIREMENTS.

SIEVE SIZE	PERCENTAGE PASSING
2 INCH	100
1-1/2 INCH	90-100
1 INCH	20-55
3/4 INCH	0-15
NO. 200	0-3

TRENCH BACKFILL / BEDDING NOTES

ENGINEERING STANDARDS 2016

REVISIONS	BY	DATE	ENGINEERING DIVISION	TRENCH BACKFILL / BEDDING	DATE: JUNE 1996
	S.S.	JUNE 2005	CITY OF POMPANO BEACH		DWG. NO. 203-1
			SCALE: N.T.S.		

ENGINEERING STANDARDS 2016

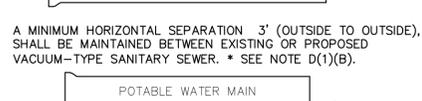
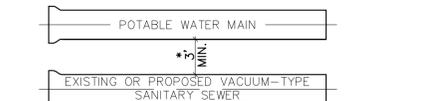
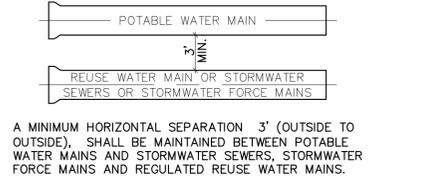
REVISIONS	BY	DATE	ENGINEERING DIVISION	TRENCH BACKFILL / BEDDING	DATE: JUNE 1996
	S.S.	JUNE 2005	CITY OF POMPANO BEACH		DWG. NO. 203-2
			SCALE: N.T.S.		

ENGINEERING STANDARDS 2016

REVISIONS	BY	DATE	ENGINEERING DIVISION	TRENCH BACKFILL / BEDDING	DATE: JUNE 1996
			CITY OF POMPANO BEACH		DWG. NO. 203-3
			SCALE: N.T.S.		

ENGINEERING STANDARDS 2016

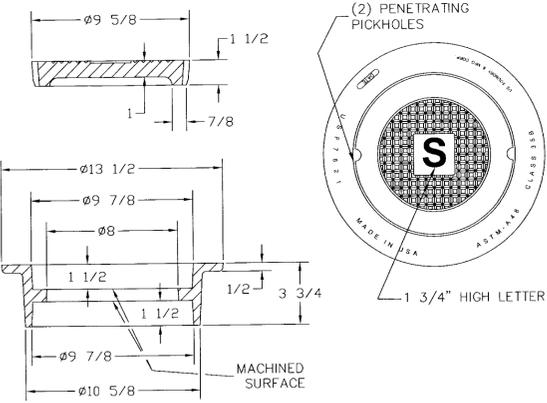
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			CITY OF POMPANO BEACH		DWG. NO. 203-4
			SCALE: N.T.S.		



MINIMUM HORIZONTAL SEPARATION REQUIREMENTS FOR POTABLE WATER, REUSE, STORMWATER AND SEWER LINES

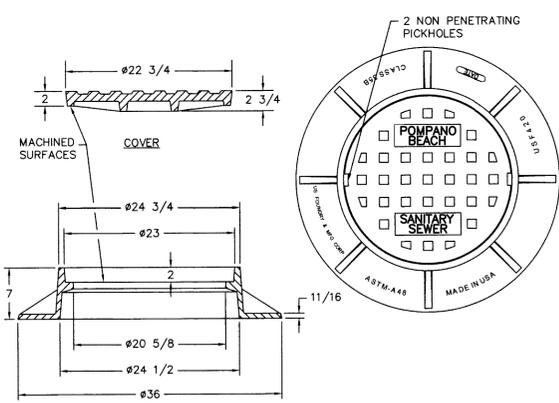
ENGINEERING STANDARDS 2016

REVISIONS	BY	DATE	ENGINEERING DIVISION	MIN. HORIZONTAL SEPARATION FOR SANITARY SEWER	DATE: JAN 2012
	S.S.	01/30/12	CITY OF POMPANO BEACH		DWG. NO. 209-1
			SCALE: N.T.S.		



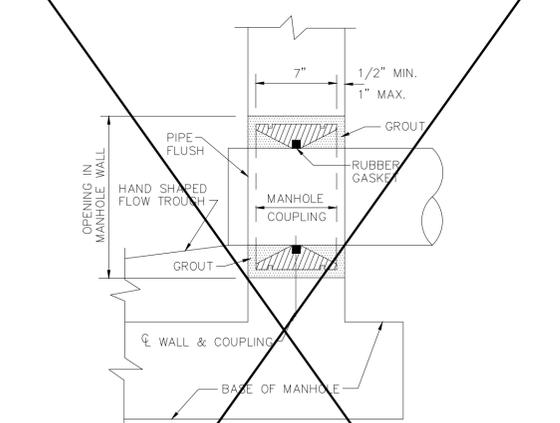
ENGINEERING STANDARDS 2016

REVISIONS	BY	DATE	ENGINEERING DIVISION	SEWER BOX AND COVER HEAVY TRAFFIC	DATE: FEB. 2012
			CITY OF POMPANO BEACH		DWG. NO. 210-3
			SCALE: N.T.S.		



ENGINEERING STANDARDS 2016

REVISIONS	BY	DATE	ENGINEERING DIVISION	TRAFFIC RATED SEWER COVER	DATE: FEB. 2012
			CITY OF POMPANO BEACH		DWG. NO. 211-1
			SCALE: N.T.S.		



ENGINEERING STANDARDS 2016

REVISIONS	BY	DATE	ENGINEERING DIVISION	MANHOLE COUPLING	DATE: JUNE 1996
	S.S.	JUNE 2005	CITY OF POMPANO BEACH		DWG. NO. 212-1
			SCALE: N.T.S.		

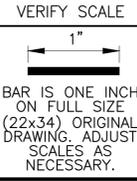
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 Acad Version : R19.0s (LMS Tech)
 User Name : jenkins

NO.	DATE	ISSUED FOR	APR'D BY

DESIGNED: D.L.M./C.K.M.
 DRAWN: J.A.J.
 CHECKED: A.C.
 APPROVED: D.L.M.

DAVID L. MATHEWS, P.E.
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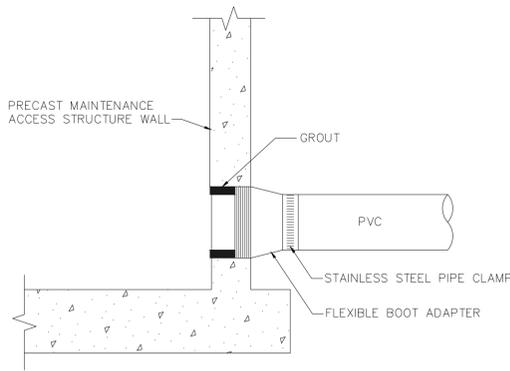
ENGINEER NO.: 1814
 CLIENT PROJECT NO.: 04-870
 CAD REF.: 1814DETAILS

CITY OF POMPANO BEACH
 LIBERTY PARK SEWER IMPROVEMENTS
 STANDARD DETAILS - SHEET 2 OF 3

DATE: FEBRUARY 2016
 SHEET: 10 of 11
 DRAWING: D-2

BIDDING

Acad Version : R19.0s (LMS Tech) User Name : Jenkins Date/Time : Tue, 09 Feb 2016 - 1:31pm Path Name : S:\Projects\Pompano\1814-Liberty Park Sewer Improvements\CAD\Working Folder\1814DETAILS.DWG Layout Tab: D-3 Current Plotstyle : ByColor

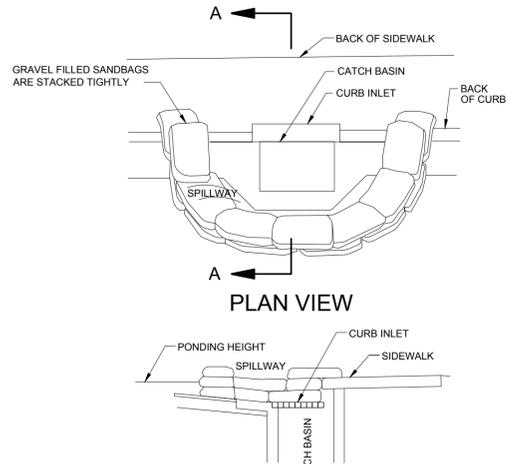


STANDARD PRECAST MAINTENANCE ACCESS STRUCTURE PIPE CONNECTION

NOTE:
C.O.P.B. MAY APPROVE ALTERNATE WATER TIGHT CONNECTION.

ENGINEERING STANDARDS 2016

REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	MAINTENANCE ACCESS STRUCTURE	DATE: DECEMBER 2013 DWG. NO. 212-2
BY	DATE			

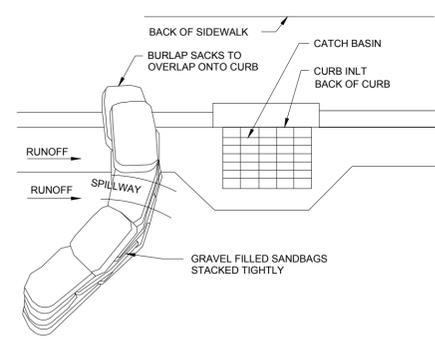


CURB INLET SEDIMENT BARRIER

NOTES:
 1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
 2. SANDBAGS, OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
 3. LEAVE ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
 4. INSPECT BARRIERS AND REMOVED SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

ENGINEERING STANDARDS 2016

REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	CURB INLET SEDIMENT BARRIER	DATE: MAY 2007 DWG. NO. 507-1
BY	DATE			

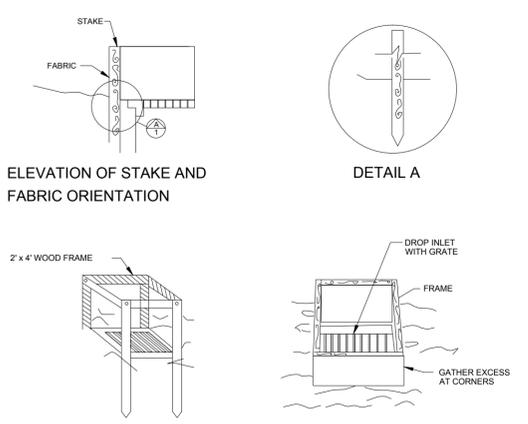


CURB AND GUTTER SEDIMENT BARRIER

NOTES:
 1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
 2. SANDBAGS, OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
 3. LEAVE ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
 4. INSPECT BARRIERS AND REMOVED SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

ENGINEERING STANDARDS 2016

REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	CURB AND GUTTER SEDIMENT BARRIER	DATE: MAY 2007 DWG. NO. 507-2
BY	DATE			

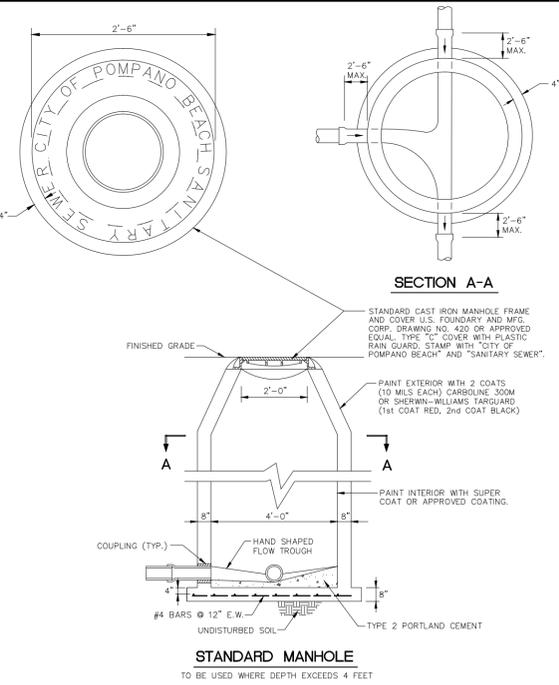


FILTER FABRIC DROP INLET SEDIMENT FILTER

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

ENGINEERING STANDARDS 2016

REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	FILTER FABRIC DROP INLET SEDIMENT FILTER	DATE: MAY 2007 DWG. NO. 508-1
BY	DATE			

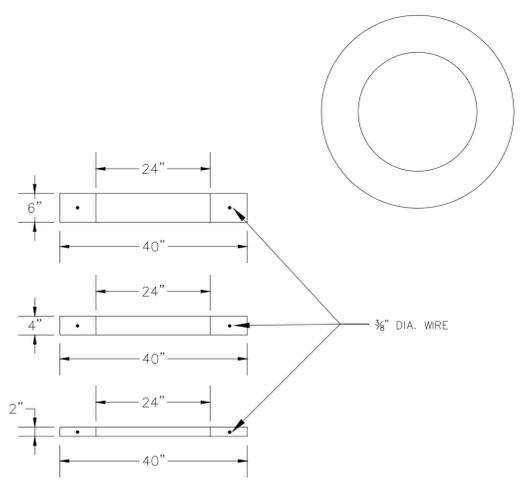


STANDARD MANHOLE

TO BE USED WHERE DEPTH EXCEEDS 4 FEET

ENGINEERING STANDARDS 2016

REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	STANDARD MANHOLE	DATE: JUNE 1996 DWG. NO. 215-1
BY	DATE			

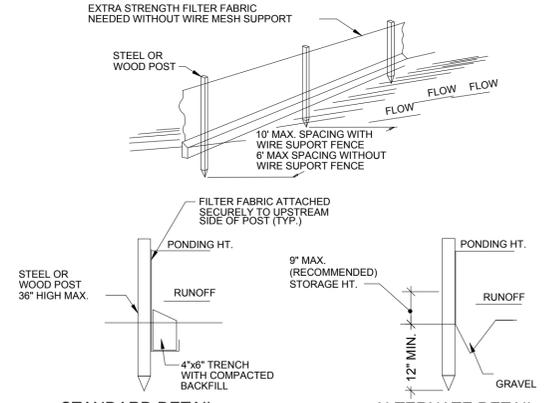


CONCRETE GRADE RINGS

ALL CONCRETE SHALL BE 4000 PSI @ 28 DAYS

ENGINEERING STANDARDS 2016

REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	CONCRETE GRADE RINGS	DATE: DECEMBER 2013 DWG. NO. 216-2
BY	DATE			

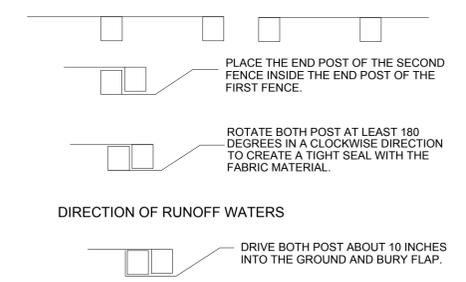


SILT FENCE

EROSION CONTROL GENERAL NOTES
 1. SILT FENCE AND TURBIDITY BARRIERS MUST REMAIN IN PLACE AND BE MAINTAINED AT ALL LOCATIONS SHOWN IN THE DRAWINGS UNTIL CONSTRUCTION IS COMPLETED AND SOILS ARE STABILIZED AND VEGETATION HAS BEEN.
 2. CONTRACTOR SHALL SUBMIT SCHEDULE FOR THE INSTALLATION, INSPECTION AND MAINTENANCE THE EROSION CONTROLS FEATURES AS SHOWN IN THE DRAWINGS OR AS DIRECTED BY THE DESIGN ENGINEER. THE SCHEDULE SHALL SPECIFICALLY INDICATE THE SEQUENCE OF CLEARING, EARTH WORK OPERATIONS, AND WHEN THE EROSION CONTROL FEATURE WILL BE INSTALLED, INSPECTED, AND MAINTAINED. IT SHALL ALSO INCLUDE METHODS TO PREVENT POLLUTION OF STREAM, LAKES, TIDAL WATERS, CANALS, AND IMPOUNDMENTS. ESTABLISHED.

ENGINEERING STANDARDS 2016

REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	SILT FENCE	DATE: MAY 2007 DWG. NO. 509-1
BY	DATE			



ATTACHING TWO SILT FENCES

NOTES:
 1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
 2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

ENGINEERING STANDARDS 2016

REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	ATTACHING TWO SILT FENCES	DATE: MAY 2007 DWG. NO. 509-2
BY	DATE			

NO.	DATE	ISSUED FOR	APRVD BY

DESIGNED:	D.L.M./C.K.M.
DRAWN:	J.A.J.
CHECKED:	A.C.
APPROVED:	D.L.M.

MATHEWS CONSULTING
 CIVIL ENGINEERS
 477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401
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 www.matthewsconsultinginc.com EB-0007929

VERIFY SCALE

 BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.
 ENGINEER NO.: 1814
 CLIENT PROJECT NO.: 04-870
 CAD REF.: 1814DETAILS

CITY OF POMPAÑO BEACH
LIBERTY PARK SEWER IMPROVEMENTS
 STANDARD DETAILS – SHEET 3 OF 3

DATE:	FEBRUARY 2016
SHEET:	11 of 11
DRAWING:	D-3

BIDDING