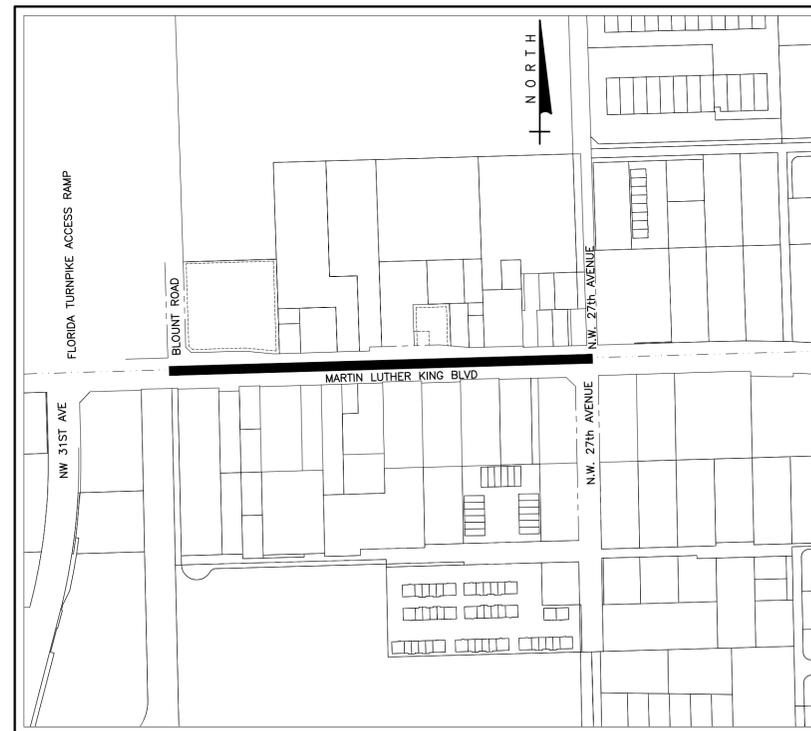


CITY OF POMPANO BEACH AREA "D" SANITARY SEWER SYSTEM

CITY PROJECT No. 15-260

CITY BID No. E-11-16



PROJECT LIMITS
SECTIONS 28 & 33, TOWNSHIP 48 SOUTH, RANGE 42 EAST

LOCATION MAP
NTS



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	MARTIN LUTHER KING BLVD PLAN - SHEET 1
5	C-1A	MARTIN LUTHER KING BLVD PROFILE - SHEET 1A
6	C-2	MARTIN LUTHER KING BLVD PLAN - SHEET 2
7	C-2A	MARTIN LUTHER KING BLVD PROFILE - SHEET 2A
8	C-3	MARTIN LUTHER KING BLVD PLAN - SHEET 3
9	C-3A	MARTIN LUTHER KING BLVD PROFILE - SHEET 3A
10	C-4	MARTIN LUTHER KING BLVD PLAN - SHEET 4
11	C-4A	MARTIN LUTHER KING BLVD PROFILE - SHEET 4A
DETAILS		
12	D-1	STANDARD DETAILS - SHEET 1 OF 5
13	D-2	STANDARD DETAILS - SHEET 2 OF 5
14	D-3	STANDARD DETAILS - SHEET 3 OF 5
15	D-4	STANDARD DETAILS - SHEET 4 OF 5
16	D-5	STANDARD DETAILS - SHEET 5 OF 5

BID SET
JANUARY 2016

FOR INFORMATION REGARDING THIS PROJECT, CONTACT:

DAVID L. MATHEWS, P.E.
MATHEWS CONSULTING, INC.
477 S. ROSEMARY AVENUE, SUITE 330
WEST PALM BEACH, FL 33401
561/655-6175



477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401
Phone: 561-655-6175 • Fax: 561-655-6179
www.mathewsconsultinginc.com EB-0007929

DAVID L. MATHEWS, P.E.
No. 48242 (GENERAL, CIVIL)

TITLE SHEET AND
LOCATION MAP

SHEET: 1 of 16

DRAWING: G-1

Acad Version : R19.0s (LMS Tech) User Name : jenkins Date/Time : Tue, 26 Jan 2016 - 1:11pm Path Name : S:\Projects\Pompano\1813-Area D Sanitary Sewer System\CAD\Working Folder\181302.DWG Layout Tab: G-2

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 DOME 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: DENNIS J. LEAVY & ASSOCIATES, INC.
- 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 WARRANTIES 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 ALONG MARTIN LUTHER KING BOULEVARD BETWEEN NORTHWEST 27TH AVENUE AND BLOUNT ROAD, 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 05 THRU SHEET 05 OF 05.

LEGAL DESCRIPTION:
NOT APPLICABLE.

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:

- FORDS MANOR (PLAT BOOK 19, PAGE 34), POMPANO MANOR (PLAT BOOK 22, PAGE 14), NUTTER SUBDIVISION (PLAT BOOK 113, PAGE 9), HORN PLAT No. 2 (PLAT BOOK 129, PAGE 32), WALTON SITE (PLAT BOOK 138, PAGE 42), CORNWALL PLAT (PLAT BOOK 144, PAGE 16), BROWARD COUNTY PLAT No. 2 (PLAT BOOK 159, PAGE 16) AND HAMMONDVILLE ROAD (MISCELLANEOUS MAP BOOK 8, PAGE 21) WERE 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: NGS PID D02644, DESIGNATION 005, ELEVATION = 10.31 FEET (NAVD 88). MONUMENT LOCATION: LOCATED 85.0 FEET EAST OF THE CENTERLINE OF NORTH POWER LINE ROAD, 55.0 FEET NORTH OF THE CENTERLINE OF NORTHWEST 15TH STREET, 46.3 FEET SOUTHWEST OF A CONCRETE POWER POLE, 42.1 FEET SOUTHEAST OF A SANITARY SEWER MANHOLE, 30.2 FEET EAST OF THE EAST EDGE OF A CONCRETE SIDEWALK, 24.0 FEET NORTHWEST OF A STOP SIGN, 9.5 FEET SOUTHWEST OF A CATCH BASIN AND 1.0 FEET WEST OF A CARSONITE WITNESS POST.
- 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°16'27" EAST BETWEEN NAIL AND WASHER (B.C.E.D. G.P.S.) STATIONS 10+00 (N 695693.56, E 930126.95) AND 26+00 (N 695741.74, E 931726.22) ALONG MARTIN LUTHER KING BOULEVARD.
- HORIZONTAL CONTROL POINTS USED FOR THIS SURVEY:

EASTERN BROWARD COUNTY HORIZONTAL GPS COUNTY NETWORK POINT "E14", NORTHING (N) = 690882.233 FEET, EASTING (E) = 929065.660 FEET, ELLIPSOID HEIGHT = -22.3 METERS, DESCRIPTION - A BROWARD COUNTY PK NAIL AND WASHER (B.C.E.D. G.P.S.) THE MARK IS LOCATED IN CONCRETE MEDIAN ABUTTING TO N. TURN LANE OF E. BOUND ATLANTIC BLVD., APPROXIMATELY 500' W. OF N.W. 31ST AVENUE.

EASTERN BROWARD COUNTY HORIZONTAL GPS COUNTY NETWORK POINT "E12", NORTHING (N) = 695690.693 FEET, EASTING (E) = 928928.771 FEET, ELLIPSOID HEIGHT = -13.3 METERS, DESCRIPTION - STONER & ASSOCIATES NAIL AND CAP (STONER P.C.P.), THE MARK IS LOCATED IN WEST END OF CONCRETE MEDIAN OF THE COCONUT CREEK PARKWAY, IN THE OVERPASS OF FLORIDA TURNPIKE.

6. BY GRAPHIC PLOTTING ONLY, THE SUBJECT PROPERTY LIES WITHIN ZONE X, AS SHOWN ON THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 12011C0356H, PANEL 356 OF 751, EFFECTIVE DATE: AUGUST 18, 2014.

7. ALL SUBSURFACE LOCATIONS DEPICTED HEREON ARE AS MARKED OUT IN THE FIELD BY OTHERS, UNDER "SUNSHINE STATE ONE CALL" TICKET NUMBER 203500767. COMPASS POINT SURVEYORS, PL ASSUMES NO LIABILITY AS TO THE ACCURACY OF THE SUBSURFACE LOCATIONS AS MARKED OUT BY OTHERS.

8. PARCEL INFORMATION SHOWN HEREON IS BASED ON INFORMATION AVAILABLE FROM THE BROWARD COUNTY PROPERTY APPRAISER WEBSITE (WWW.BCPA.NET). THE PARCEL NUMBERS SHOWN ARE PARCEL FOLIO NUMBERS PER THE APPRAISER'S WEBSITE.

9. CANAL EQUALIZER PIPE INFORMATION SHOWN ON SHEET 3 OF 3 BASED ON INFORMATION PROVIDED BY CLIENT. INVERT AND PIPE DATA PER SHEET C-9, MARTIN LUTHER KING JR. BOULEVARD ROAD IMPROVEMENTS - PAVING, GRADING AND DRAINAGE PLAN BY KEITH AND ASSOCIATES, PROJECT NO. 07470.50, DATED SEPTEMBER 2012 WITH LAST REVISION (7) DATE BEING 07-21-15.

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: 08/13/15, 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
ARV	AIR RELEASE VALVE	FPL	FLORIDA POWER AND LIGHT	PVC	POLYVINYL CHLORIDE
BPP	BLACK PLASTIC PIPE	FFL	FINISH FLOOR ELEVATION	R	RADIUS
BST	BELLSOUTH TELEPHONE	FF	FOUND	R/C	ROD AND CAP
C/L	CENTERLINE	FND	FORCE MAIN	RCP	REINFORCED CONCRETE PIPE
C	CALCULATED	FM	HAND HOLE	RT	RIGHT
CFT	CALCULATED FROM FIELD TRAVERSE	HH	HIGH DENSITY POLYETHYLENE	RTW	RIGHT OF WAY
CLF	CHAIN LINK FENCE	HOPE	INVERT	RWM	REGISTERED LAND SURVEYOR
CLP	CONCRETE LIGHT POLE	INV	IRON ROD & CAP	SEC	SECTION
CMP	CORRUGATED METAL PIPE	LF	LINEAR FEET	STA	STATION
CMU	CONCRETE MASONRY UNIT	LSA	LANDSCAPE AREA	TOB	TOP OF BANK
CONC	CONCRETE	LT	LEFT	TOS	TOE OF SLOPE
CP	CONCRETE PIPE	MH	MANHOLE	T.O.N	TOP OF NUT
D	DRAINAGE EASEMENT	MP	METAL PIPE	T.O.P	TOP OF PIPE
D.E.	DRAINAGE EASEMENT	N/A	NOT ACCESSIBLE	T.O.W	TOP OF WALL
DIP	DUCTILE IRON PIPE	N/D	NAIL AND DISK	TYP	TYPICAL
DEP	DEPRESSED (CURB)	OHL	OVERHEAD LINE	U.E.	UTILITY EASEMENT
EL	ELEVATION	O.R.B.	OFFICIAL RECORD BOOK	UNK	UNKNOWN
EP	EDGE OF PAVEMENT	P.B.	PLAT BOOK	VERT	VERTICAL
EOW	EDGE OF WATER	PG	PAGE	V.G.	VALLEY GUTTER
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE	PP	PLASTIC PIPE	W/	WITH
		PK	PARKER-KALON BRAND	WPP	WOOD POWER POLE

SURVEY SYMBOL LEGEND:

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

SURVEY TREE LEGEND:

	- ACACIA		- UNKNOWN		- CITRUS		- PAPAYA
	- PALM SPECIES		- BOTTLEBRUSH		- CACTUS		- CYPRESS
	- BANANA		- MAPLE		- MANGO		- GUMBO-LIMBO
	- FIGUS		- 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: K.S.	<p>MATHEWS CONSULTING, INC. 477 S. ROSEMARY AVENUE, SUITE 330, WEST PALM BEACH, FLORIDA 33401 PHONE: 561-655-6175 FAX: 561-655-6179 WWW.MATHEWSCONSULTINGINC.COM EB-0007929</p>	VERIFY SCALE	ENGINEER NO.: 1813	<p>CITY OF POMPANO BEACH AREA "D" SANITARY SEWER SYSTEM</p> <p>SURVEY LEGEND AND GENERAL NOTES</p>	DATE: JANUARY 2016
				DRAWN: J.A.J.		BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.	CLIENT PROJECT NO.: 15-260		SHEET: 2 of 16
				CHECKED: A.C.			CAD REF.: 1813G02		DRAWING: G-2
				APPROVED: D.L.M.					

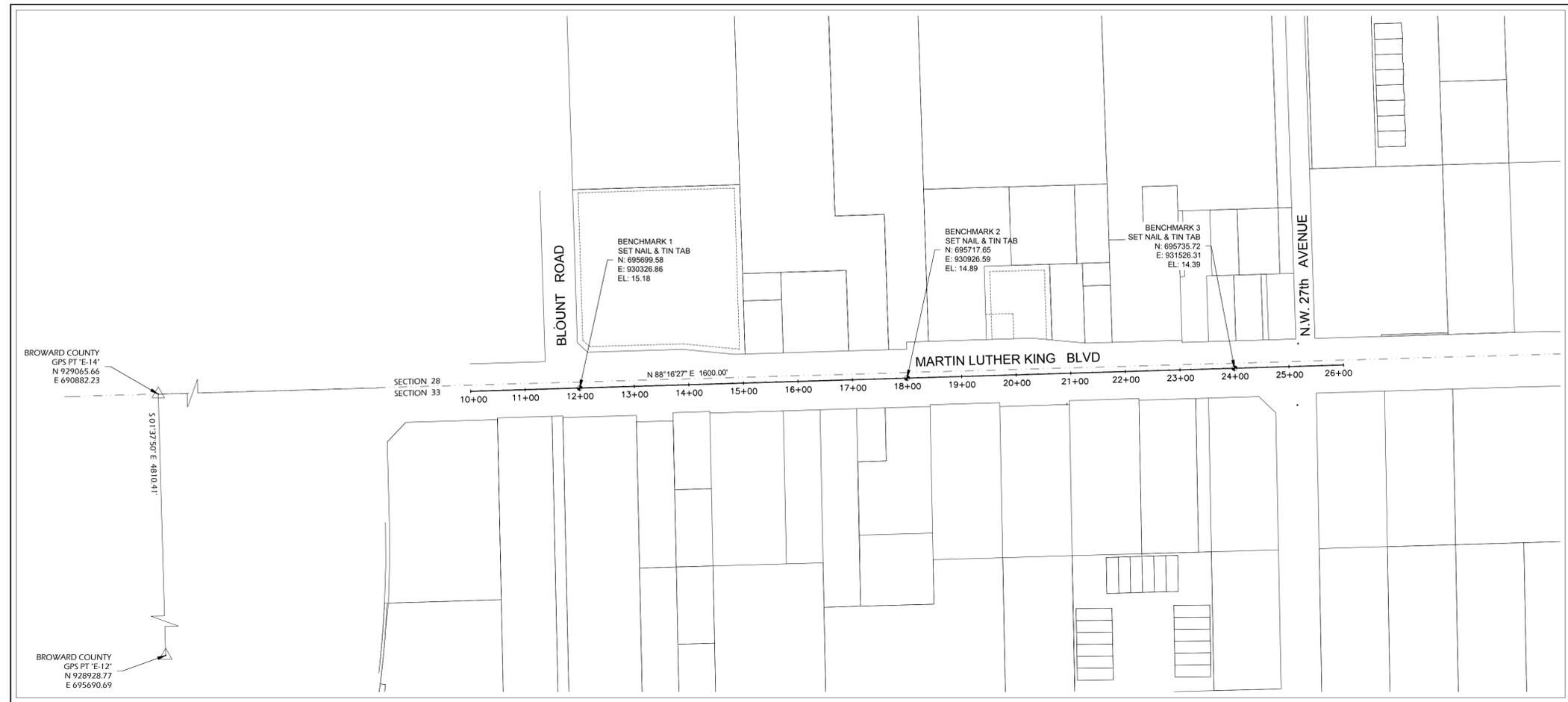
BIDDING

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 BM EL: 15.18

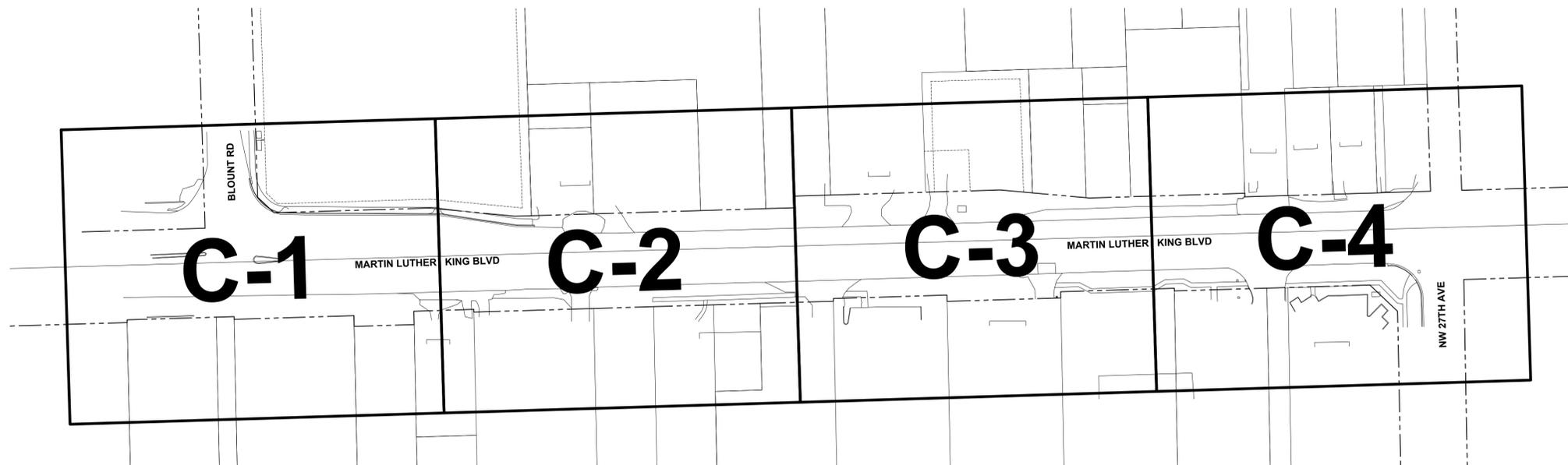
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HORIZONTAL CONTROL DETAIL

NTS



KEY MAP

NTS

Date: Tue, 26 Jan 2016 1:12pm
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 User: jenkins
 Acad Version: R19.0s (LMS Tech)
 Current Plotstyle: B\Color
 Layout Tab: G-3

NO.	DATE	ISSUED FOR	APRVD BY

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

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

MATHEWS CONSULTING

 CIVIL ENGINEERS
 477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401
 Phone: 561-655-6175 • Fax: 561-655-6179
 www.mathewsconsultinginc.com EB-0007929

VERIFY SCALE

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

ENGINEER NO.: 1813
 CLIENT PROJECT NO.: 15-260
 CAD REF.: 1813G03

CITY OF POMPAÑO BEACH
AREA "D" SANITARY SEWER SYSTEM
KEY MAP AND HORIZONTAL CONTROL DETAIL

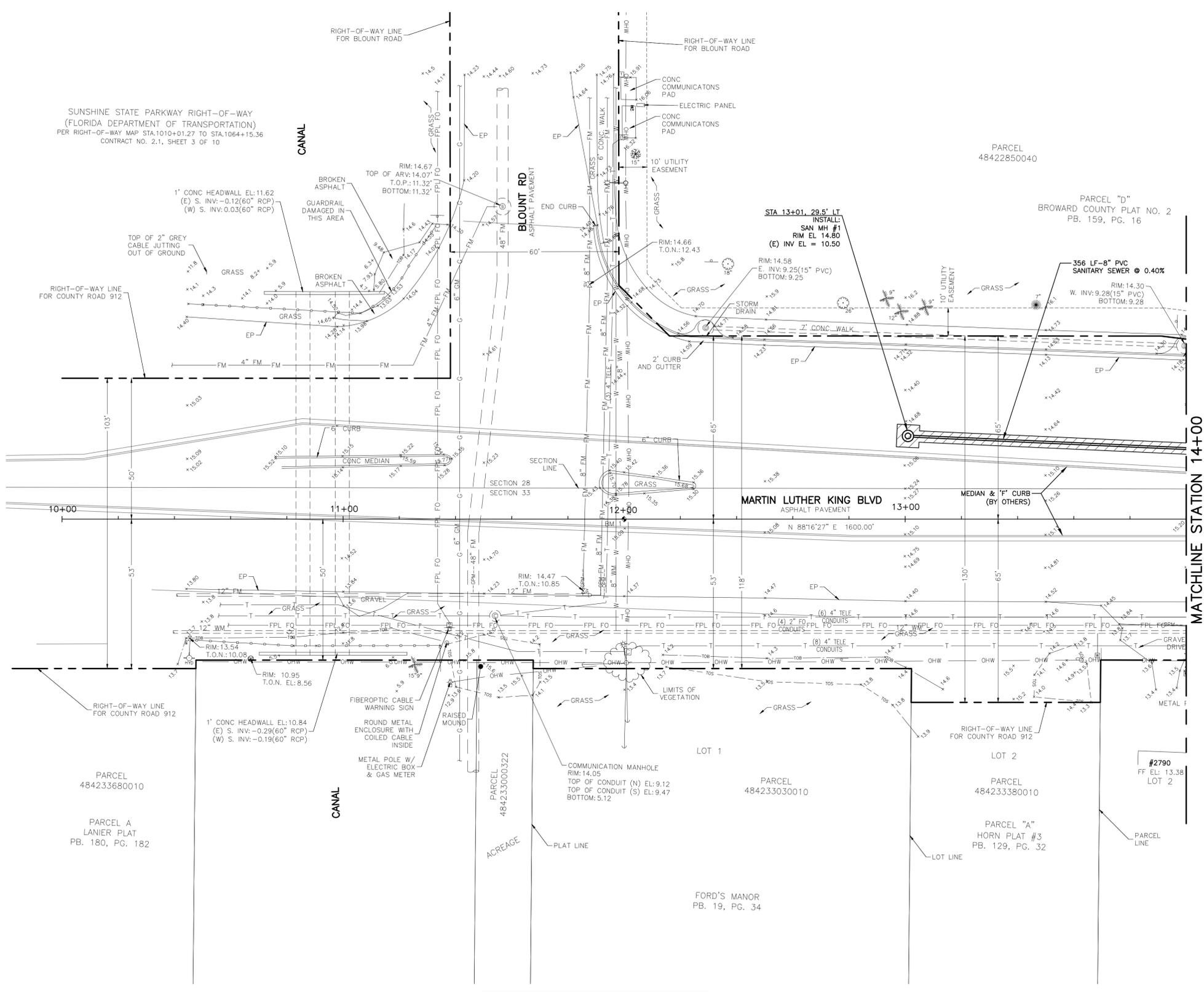
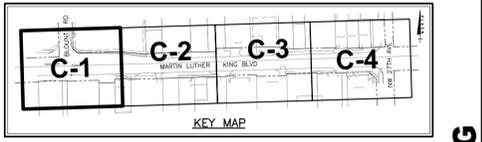
DATE: JANUARY 2016
 SHEET: 3 of 16
 DRAWING: G-3

BIDDING

- NOTES:**
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UTILITY CROSSINGS, INCLUDING PARALLELING OF UTILITIES, PRIOR TO CONSTRUCTION OF PROPOSED SANITARY SEWER AND LIFT STATION.
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REFER TO DRAWING C-1A FOR PROFILE

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 User: jenkins
 Path: S:\Projects\Pompano\1813-Area D Sanitary Sewer System\CAD\Working Folder\1813P&P.DWG
 Current Plotstyle: B\Color
 Layout Tab: C-1
 Acad Version: R19.0s (LMS Tech)

NO.	DATE	ISSUED FOR	APR'D BY

DESIGNED:	K.S.
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" = 20'

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

ENGINEER NO.: 1813

CLIENT PROJECT NO.: 15-260

CAD REF.: 1813P&P

CITY OF POMPAHO BEACH

AREA "D" SANITARY SEWER SYSTEM

MARTIN LUTHER KING BLVD

PLAN - SHEET 1

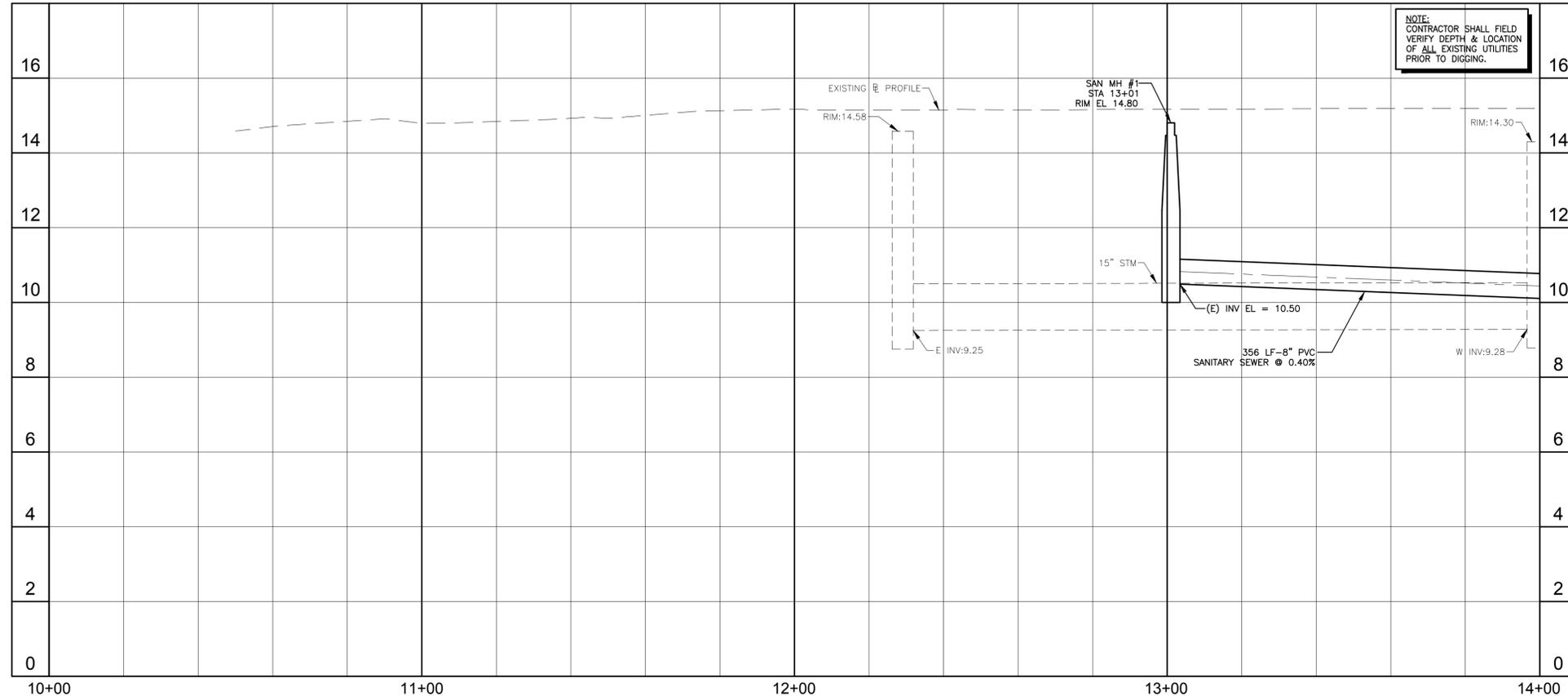
STA 10+00 TO STA 14+00

DATE:	JANUARY 2016
SHEET:	4 of 16
DRAWING:	C-1

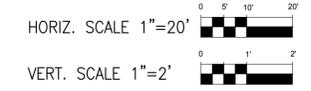


BIDDING

Acad Version : R19.0s (LMS Tech) User Name : jenkins Date\Time : Tue, 26 Jan 2016 - 1:13pm Path Name : S:\Projects\Pompano\1813-Area D Sanitary Sewer System\CAD\Working Folder\1813P&P.DWG Layout Tab: C-1A



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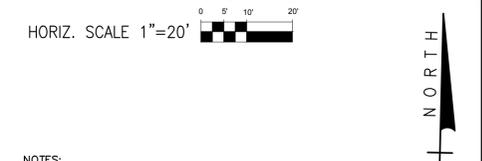
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REFER TO DRAWING C-1 FOR PLAN



BIDDING

NO.	DATE	ISSUED FOR	APRVD BY	DESIGNED: K.S.	<p>MATHEWS CONSULTING CIVIL ENGINEERS 477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401 Phone: 561-655-6175 Fax: 561-655-6179 www.mathewsconsultinginc.com EB-0007929</p>	ENGINEER NO.: 1813	<p>CITY OF POMPANO BEACH AREA "D" SANITARY SEWER SYSTEM</p> <p>MARTIN LUTHER KING BLVD PROFILE - SHEET 1A STA 10+00 TO STA 14+00</p>	DATE: JANUARY 2016
				DRAWN: J.A.J.		CLIENT PROJECT NO.: 15-260		SHEET: 5 of 16
				CHECKED: A.C.		CAD REF.: 1813P&P	DRAWING: C-1A	
				APPROVED: D.L.M.		DAVID L. MATHEWS, P.E. No. 48242		

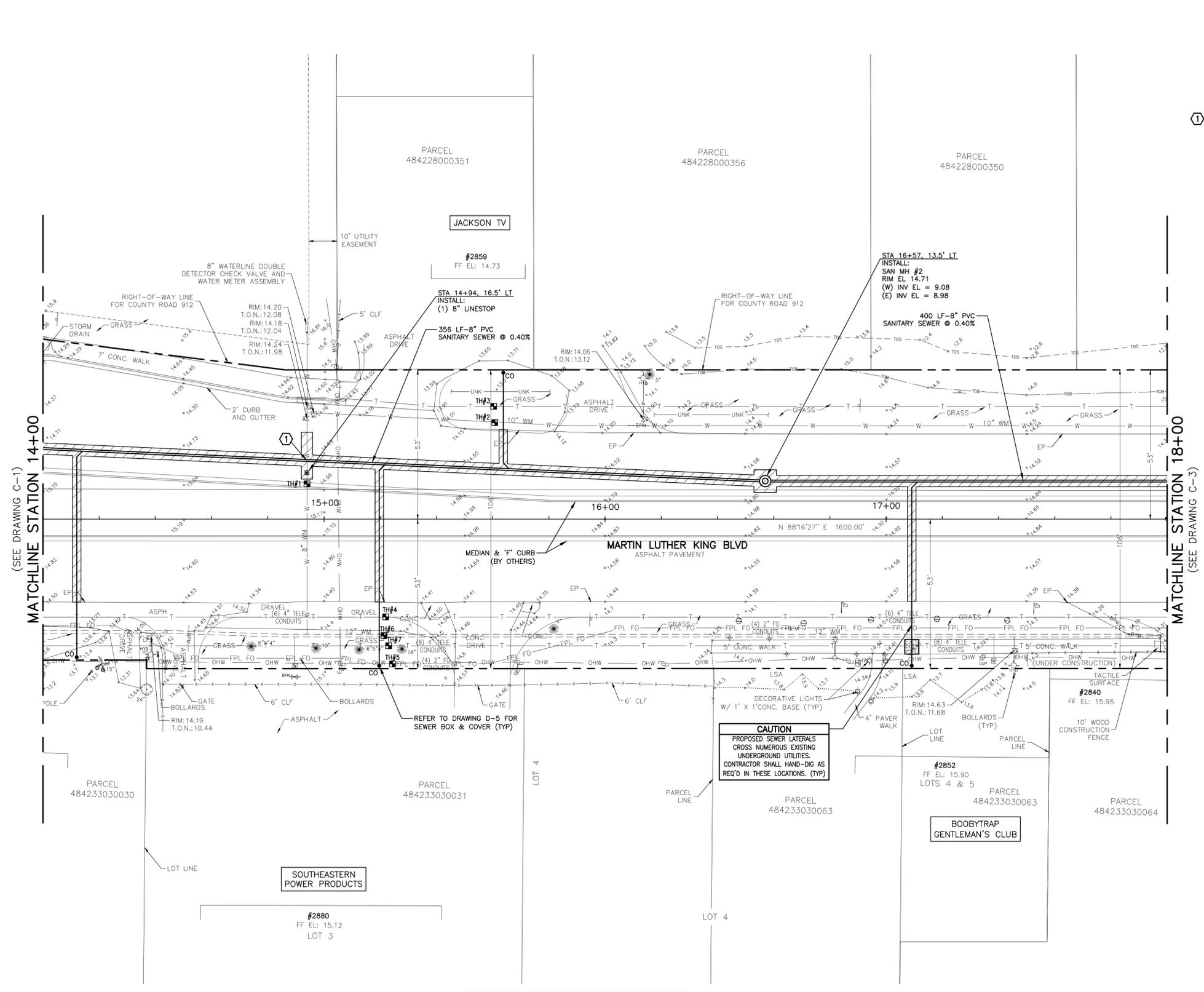
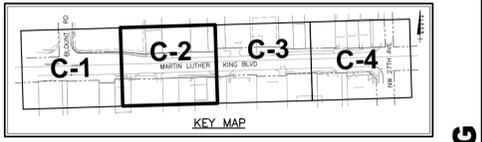


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CONFLICT
 8" SAN CROSSES UNDER 8" WM
 8" WM BOP EL = 10.89±
 8" SAN TOP EL = 10.39±
 CLEARANCE = 6 INCHES
 PROVIDE FLOWABLE FILL BETWEEN WM & SAN.
 CONTRACTOR TO RELOCATE WM TO AVOID CONFLICT.

CAUTION
 PROPOSED SEWER LATERALS CROSS NUMEROUS EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL HAND-DIG AS REQ'D IN THESE LOCATIONS. (TYP)

REFER TO DRAWING C-2A FOR PROFILE

Date/Time : Tue, 26 Jan 2016 - 1:13pm
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 Acad Version : R19.0s (LMS Tech)
 Path Name : S:\Projects\Pompano\1813-Area D Sanitary Sewer System\CAD\Working Folder\1813P&P.DWG
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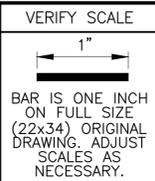
DESIGNED: K.S.
 DRAWN: J.A.J.
 CHECKED: A.C.
 APPROVED: D.L.M.

DAVID L. MATHEWS, P.E.
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ENGINEER NO.: 1813
 CLIENT
 PROJECT NO.: 15-260
 CAD REF.: 1813P&P

CITY OF POMPAO BEACH
 AREA "D" SANITARY SEWER SYSTEM

MARTIN LUTHER KING BLVD
 PLAN - SHEET 2
 STA 14+00 TO STA 18+00

DATE: JANUARY 2016
 SHEET: 6 of 16
 DRAWING: C-2

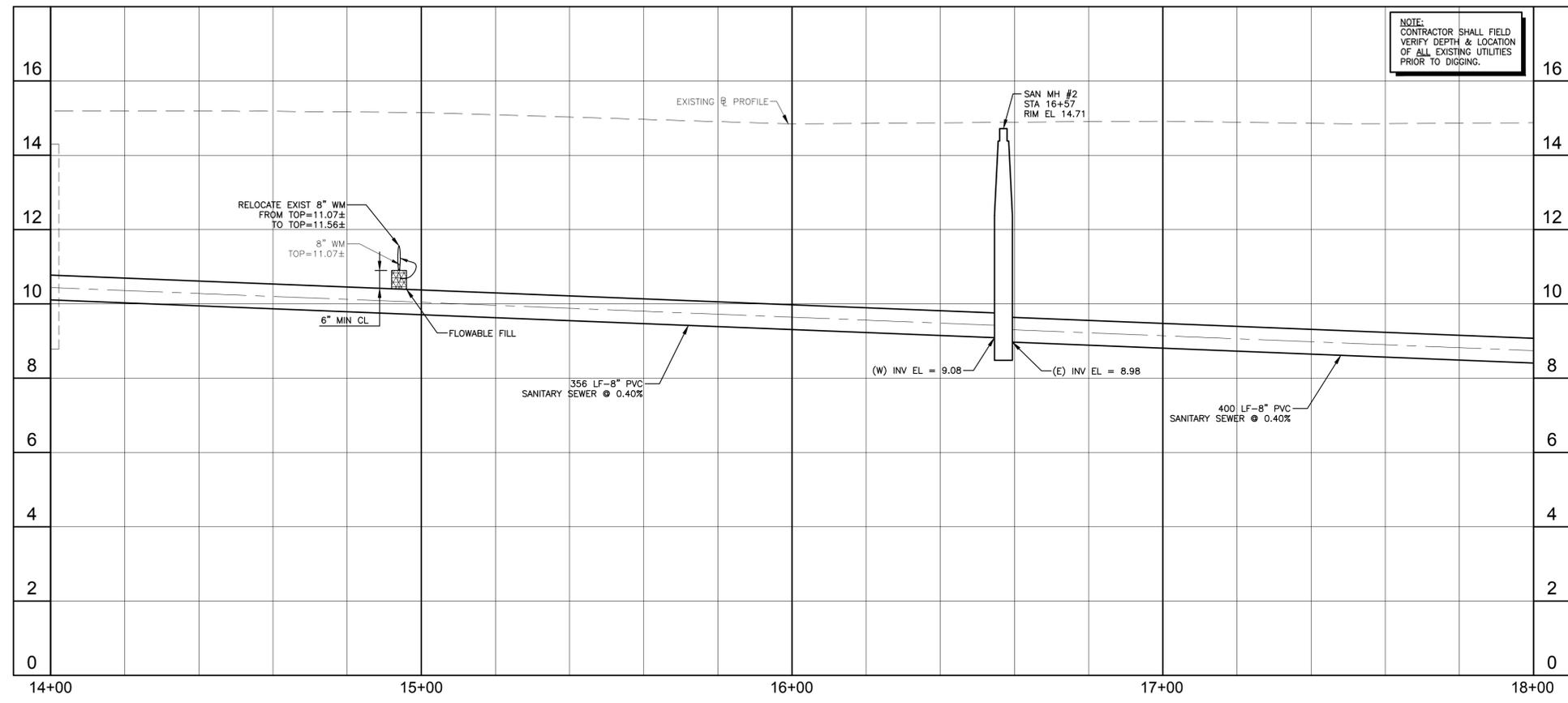


BIDDING

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

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NO.	DATE	ISSUED FOR	APRVD BY

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

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VERIFY SCALE

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

ENGINEER NO.: 1813
 CLIENT PROJECT NO.: 15-260
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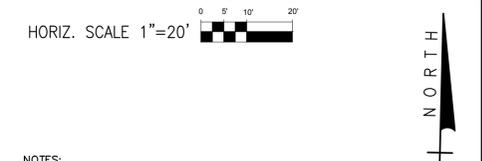
CITY OF POMPAÑO BEACH
 AREA "D" SANITARY SEWER SYSTEM

MARTIN LUTHER KING BLVD
 PROFILE - SHEET 2A
 STA 14+00 TO STA 18+00

DATE: JANUARY 2016
 SHEET: 7 of 16
 DRAWING: C-2A



BIDDING

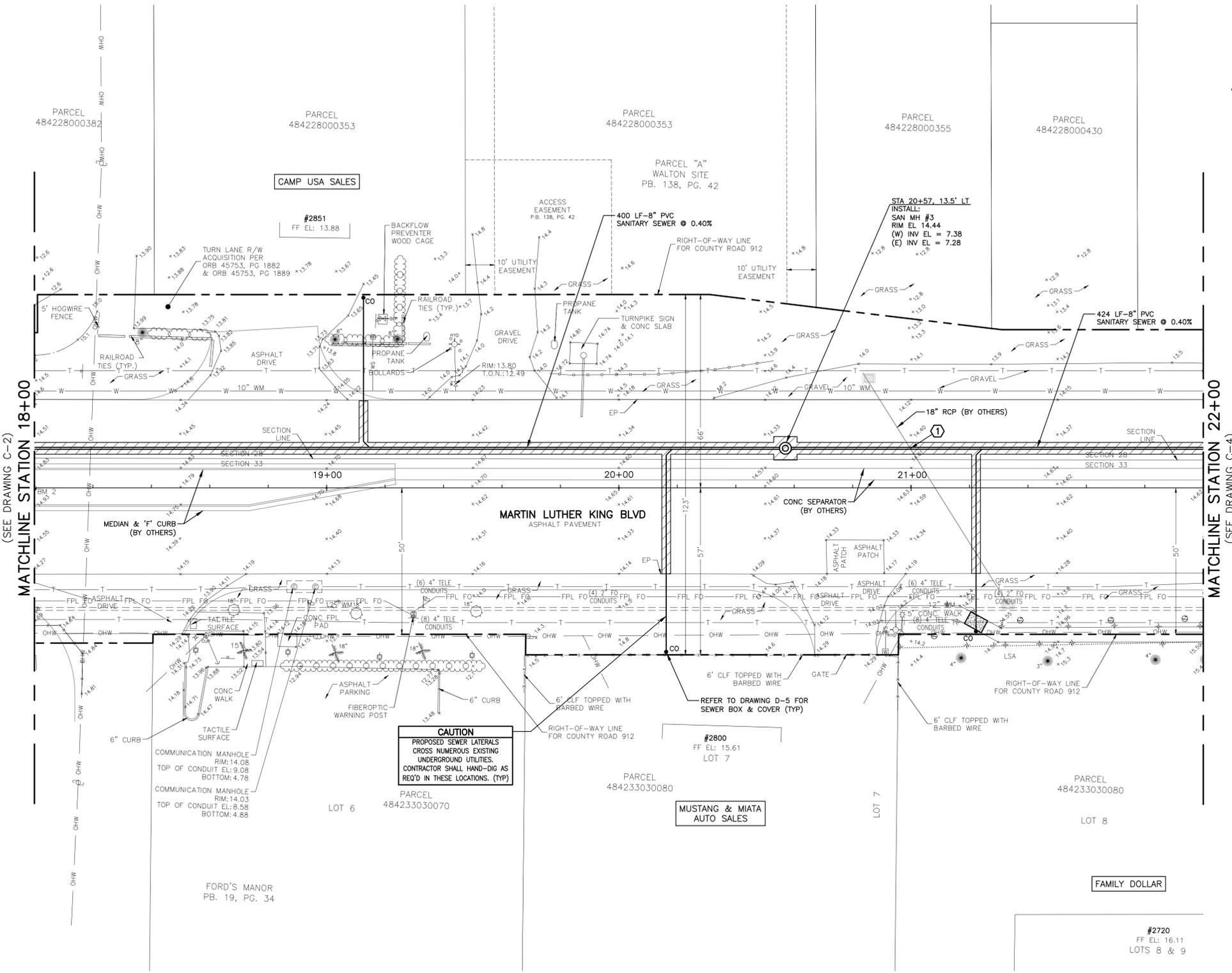
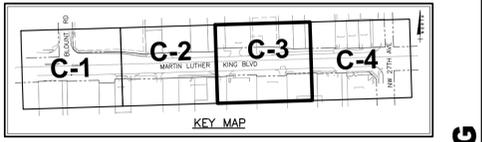


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MUSTANG & MIATA AUTO SALES

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 PLAN - SHEET 3
 STA 18+00 TO STA 22+00

DATE: JANUARY 2016
 SHEET: 8 of 16
 DRAWING: C-3

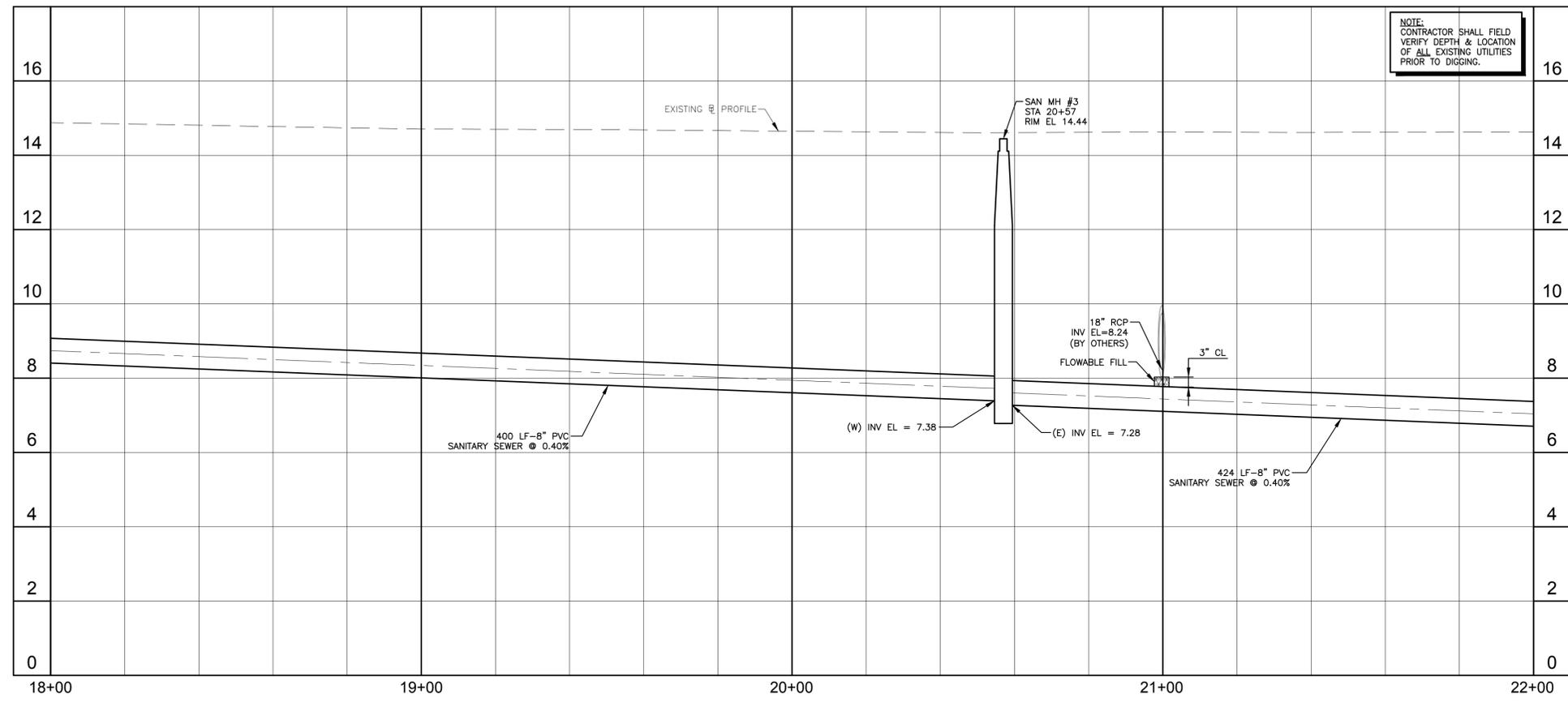


BIDDING

Acad Version : R19.0s (LMS Tech) User Name : jenkins Date\Time : Tue, 26 Jan 2016 - 1:13pm Path\Name : S:\Projects\Pompano\1813-Area D Sanitary Sewer System\CAD\Working Folder\1813P&P.DWG Layout Tab: C-3A

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

- NOTES:**
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UTILITY CROSSINGS, INCLUDING PARALLELING OF UTILITIES, PRIOR TO CONSTRUCTION OF PROPOSED SANITARY SEWER AND LIFT STATION.
 - 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.
 - ALL FITTINGS SHALL HAVE RESTRAINED JOINTS. SEE STANDARD DETAIL DRAWING D-3 FOR MECHANICAL THRUST RESTRAINT - MINIMUM PIPE LENGTHS DETAIL.
 - CONTRACTOR SHALL REFER TO DETAILS ON DRAWINGS D-1 THROUGH D-5 FOR STANDARD DETAIL CONSTRUCTION INFORMATION.
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 - WATER SERVICE LINES/METERS SHALL CROSS OVER REUSE MAINS, GRAVITY SEWER AND STORMWATER FACILITIES WITH MINIMUM 6" CLEARANCE.
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 - LAY GRAVITY SEWER PIPE PROCEEDING UPGRADE WITH THE BELL OR GROOVE POINTING UPSTREAM. CONSTRUCTION SHALL START AT THE EXISTING SANITARY MANHOLE AT NW 27TH AVENUE (DWG C-4) AND PROCEED UPSTREAM TO ENSURE A CONSISTENT SLOPE WITH NO DEFLECTIONS.



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

LEGEND

- PROPOSED 1" MILL & 1" OVERLAY (S-II)
- OPEN CUT PAVEMENT REPAIR
- 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
- LINESTOP
- SANITARY LATERAL & CLEANOUT **

**ACTUAL LOCATION SHALL BE FIELD VERIFIED BY CONTRACTOR AND CITY STAFF PRIOR TO ACTUAL INSTALLATION.

NOTE:
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REFER TO DRAWING C-3 FOR PLAN

NO.	DATE	ISSUED FOR	APRVD BY

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

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

MATHEWS CONSULTING
 CIVIL ENGINEERS
 477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401
 Phone: 561-655-6175 Fax: 561-655-6179
 www.matthewsconsultinginc.com EB-0007929

VERIFY SCALE

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

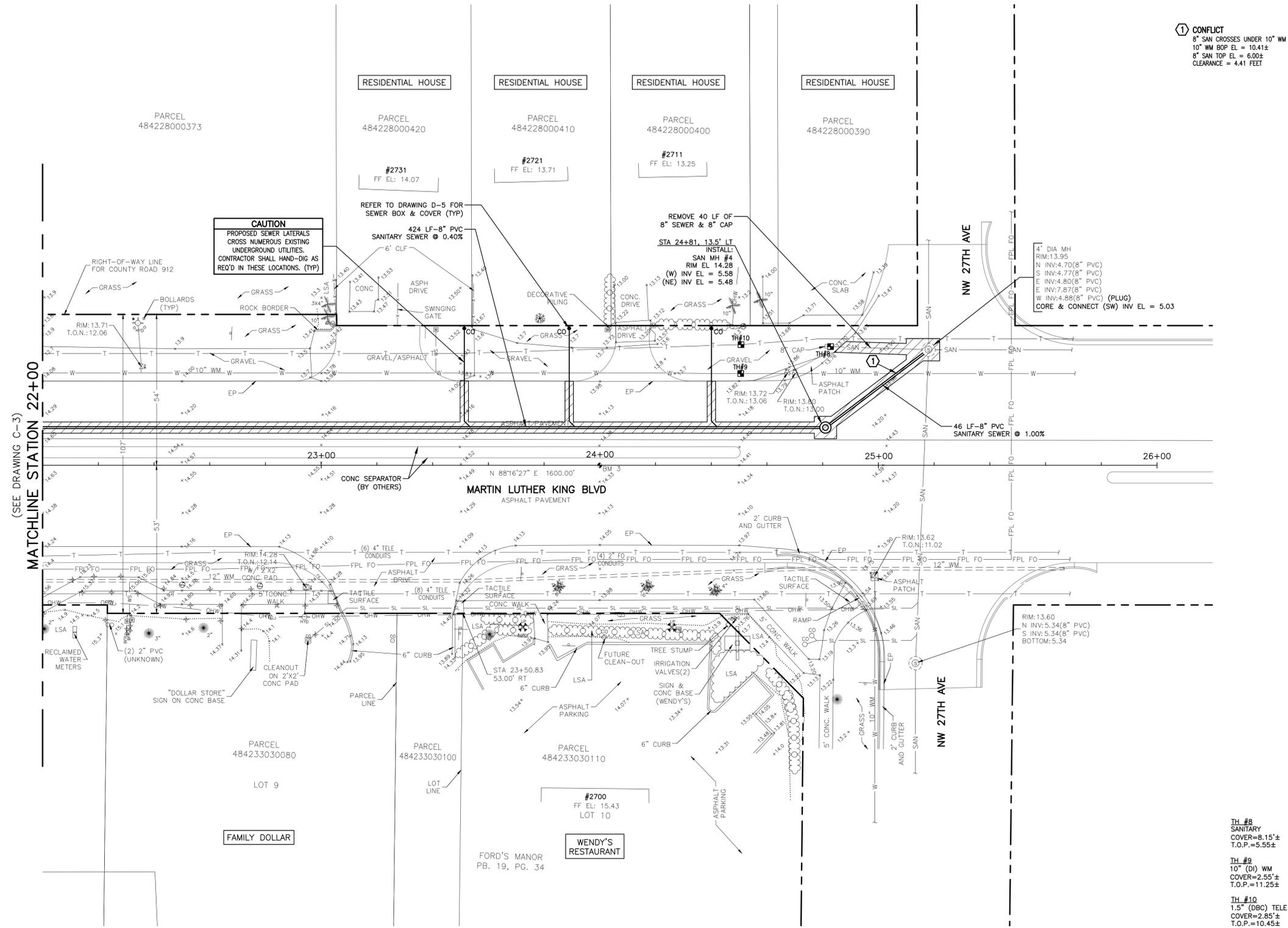
ENGINEER NO.: 1813
 CLIENT PROJECT NO.: 15-260
 CAD REF.: 1813P&P

CITY OF POMPANO BEACH
 AREA "D" SANITARY SEWER SYSTEM
 MARTIN LUTHER KING BLVD
 PROFILE - SHEET 3A
 STA 18+00 TO STA 22+00

DATE: JANUARY 2016
 SHEET: 9 of 16
 DRAWING: C-3A



BIDDING

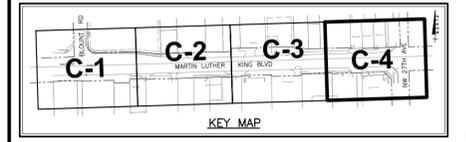


CONFLICT
 8" SAN CROSSES UNDER 10" WM
 10" WM BOP EL = 10.41±
 8" SAN TOP EL = 6.00±
 CLEARANCE = 4.41 FEET

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 - PROPOSED CONCRETE DRIVEWAY REPLACEMENT
 - PROPOSED BRICK DRIVEWAY RESTORATION
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TH #8
 SANITARY
 COVER=8.15'±
 T.O.P.=5.55'±

TH #9
 10" (DI) WM
 COVER=2.55'±
 T.O.P.=11.25'±

TH #10
 1.5" (DBC) TELE
 COVER=2.85'±
 T.O.P.=10.45'±

REFER TO DRAWING C-4A FOR PROFILE

Date/Time : Tue, 26 Jan 2016 - 1:13pm
 Current Plotstyle : BldgColor
 Path Name : S:\Projects\Pompano\1813-Area D Sanitary Sewer System\CAD\Working Folder\1813P&P.DWG
 User Name : jenkins
 Acad Version : R19.0s (LMS Tech)
 Layout Tab: C-4

NO.	DATE	ISSUED FOR	APRVD BY	DESIGNED:	K.S.
				DRAWN:	J.A.J.
				CHECKED:	A.C.
				APPROVED:	D.L.M.

DAVID L. MATHEWS, P.E.
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VERIFY SCALE

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ENGINEER NO.: 1813
 CLIENT PROJECT NO.: 15-260
 CAD REF.: 1813P&P

CITY OF POMPAO BEACH
 AREA "D" SANITARY SEWER SYSTEM

MARTIN LUTHER KING BLVD
 PLAN - SHEET 4
 STA 22+00 TO STA 26+00

DATE: JANUARY 2016

SHEET: 10 of 16

DRAWING: C-4

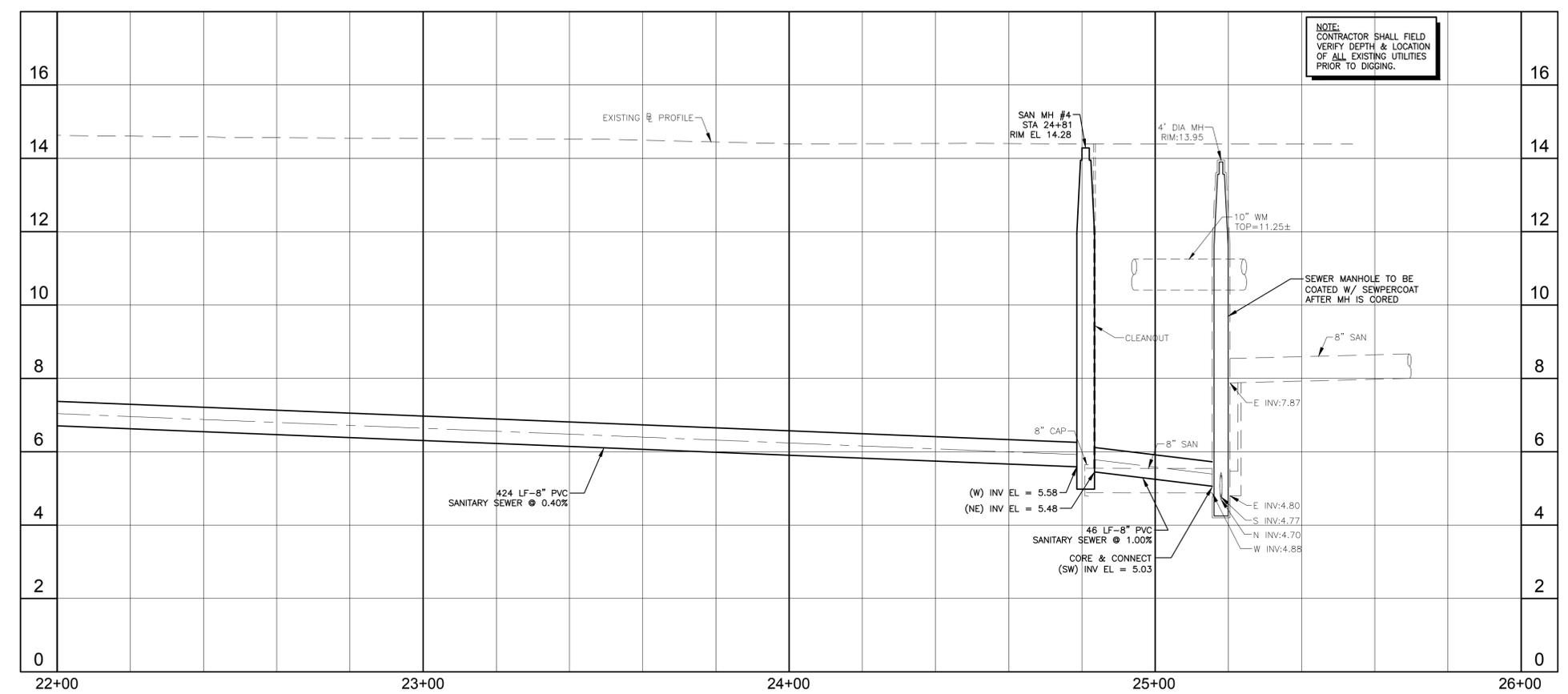


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Acad Version : R19.0s (LMS Tech) User Name : jenkins Date\Time : Tue, 26 Jan 2016 - 1:14pm Path Name : S:\Projects\Pompano\1813-Area D Sanitary Sewer System\CAD\Working Folder\1813P&P.DWG

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REFER TO DRAWING C-4 FOR PLAN

NO.	DATE	ISSUED FOR	APRV'D BY

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

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

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VERIFY SCALE

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ENGINEER NO.: 1813
 CLIENT PROJECT NO.: 15-260
 CAD REF.: 1813P&P

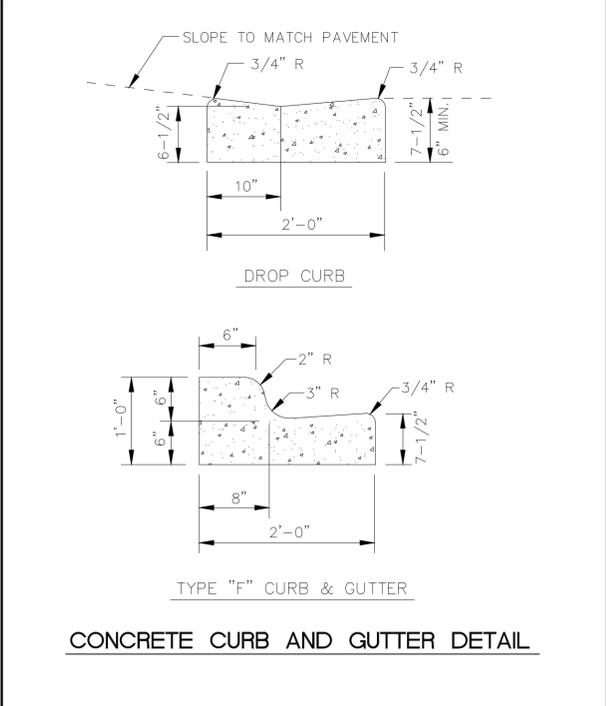
CITY OF POMPANO BEACH
 AREA "D" SANITARY SEWER SYSTEM
 MARTIN LUTHER KING BLVD
 PROFILE - SHEET 4A
 STA 22+00 TO STA 26+00

DATE: JANUARY 2016
 SHEET: 11 of 16
 DRAWING: C-4A

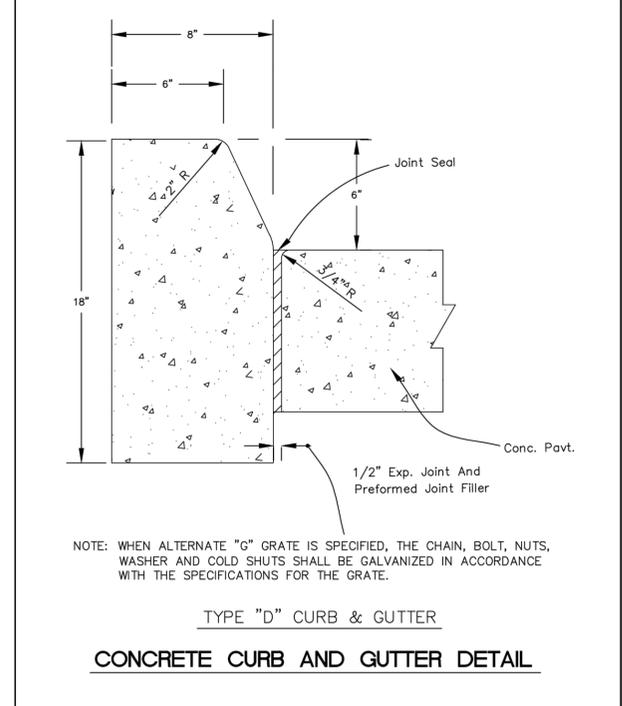


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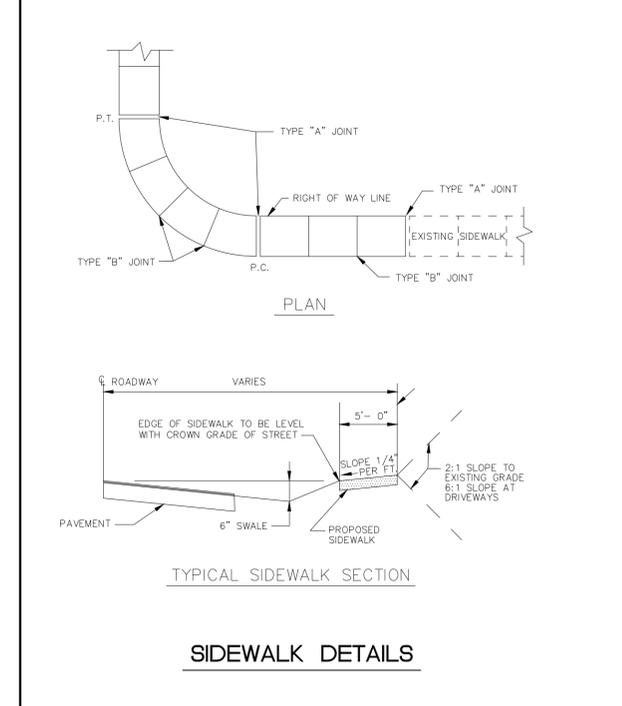
Date/Time : Tue, 26 Jan 2016 - 1:14pm
 User Name : jenkins
 Acad Version : R19.0s (LMS Tech)
 Current Plotstyle : ByColor
 Path Name : S:\Projects\Pompano\1813-Area D Sanitary Sewer System\CAD\Working Folder\1813DETAILS.DWG
 Layout Tab: D-1



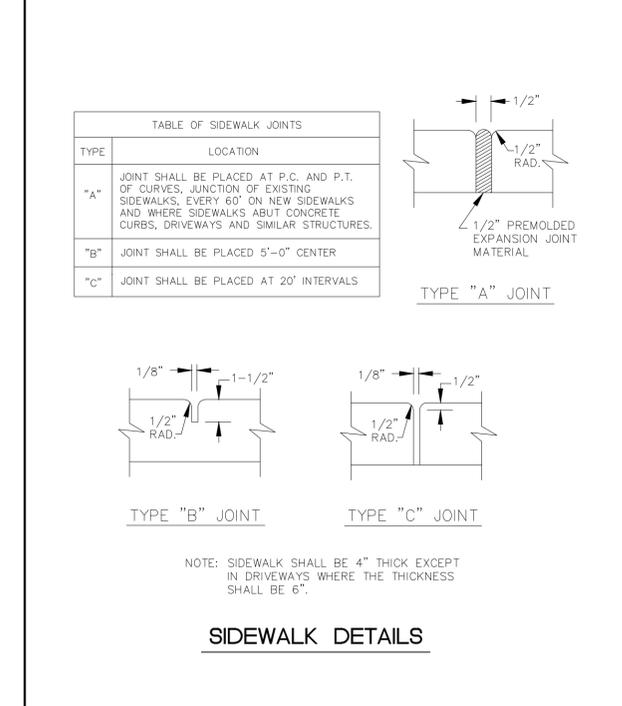
REVISIONS		ENGINEERING STANDARDS	
BY	DATE	UTILITIES DEPARTMENT ENGINEERING DIVISION CITY OF POMPAÑO BEACH	CONCRETE CURB AND GUTTER DETAILS
		APPROVED BY: _____	DATE: JUNE 1996 DWG. NO. 300-1
		SCALE: N.T.S.	CITY ENGINEER _____



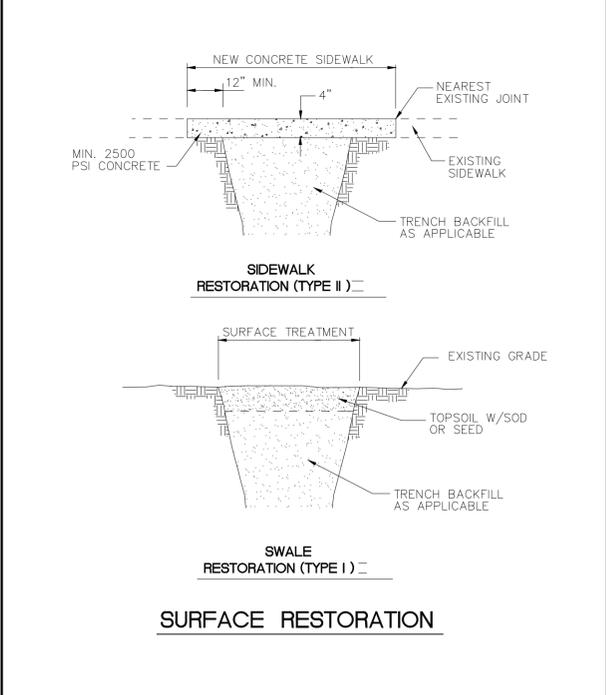
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BY	DATE	ENGINEERING DIVISION CITY OF POMPAÑO BEACH	CONCRETE CURB AND GUTTER
		APPROVED BY: _____	DATE: January 2000 DWG. NO. 300-2
		SCALE: N.T.S.	CITY ENGINEER _____



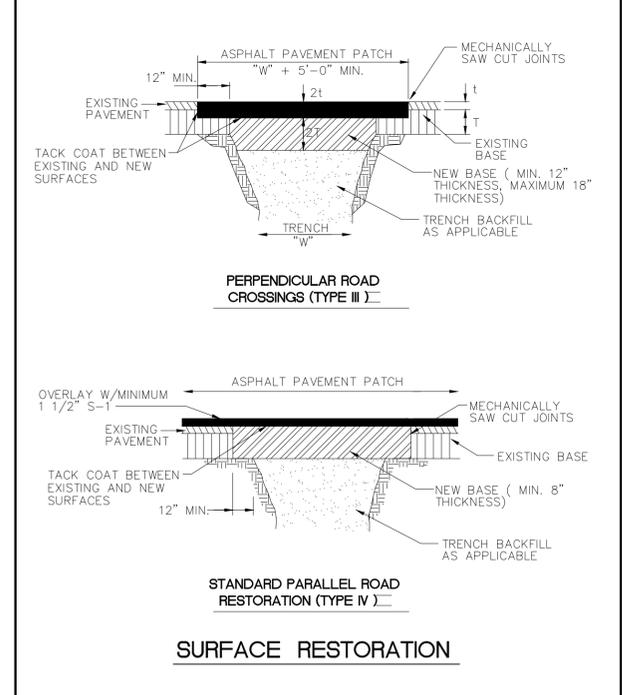
REVISIONS		ENGINEERING STANDARDS	
BY	DATE	UTILITIES DEPARTMENT ENGINEERING DIVISION CITY OF POMPAÑO BEACH	SIDEWALK DETAILS
		APPROVED BY: _____	DATE: JUNE 1996 DWG. NO. 301-1
		SCALE: N.T.S.	CITY ENGINEER _____



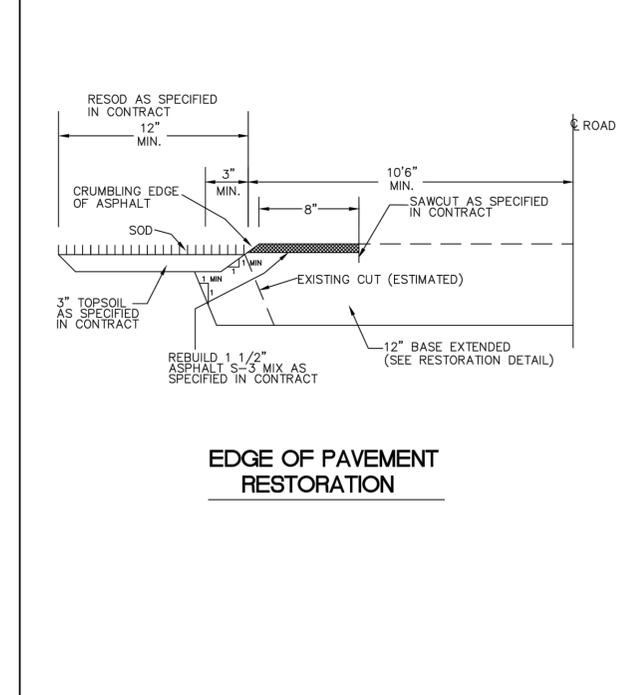
REVISIONS		ENGINEERING STANDARDS	
BY	DATE	UTILITIES DEPARTMENT ENGINEERING DIVISION CITY OF POMPAÑO BEACH	SIDEWALK DETAILS
		APPROVED BY: _____	DATE: JUNE 1996 DWG. NO. 301-2
		SCALE: N.T.S.	CITY ENGINEER _____



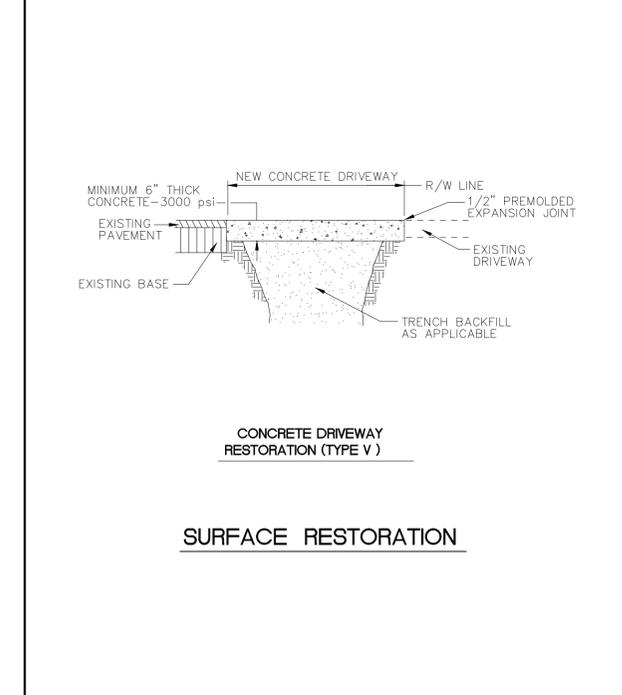
REVISIONS		ENGINEERING STANDARDS	
BY	DATE	UTILITIES DEPARTMENT ENGINEERING DIVISION CITY OF POMPAÑO BEACH	SURFACE RESTORATION
		APPROVED BY: _____	DATE: FEB. 1998 DWG. NO. 306-1
		SCALE: N.T.S.	CITY ENGINEER _____



REVISIONS		ENGINEERING STANDARDS	
BY	DATE	UTILITIES DEPARTMENT ENGINEERING DIVISION CITY OF POMPAÑO BEACH	SURFACE RESTORATION
		APPROVED BY: _____	DATE: FEB. 1998 DWG. NO. 306-2
		SCALE: N.T.S.	CITY ENGINEER _____



REVISIONS		ENGINEERING STANDARDS 2014	
BY	DATE	ENGINEERING DIVISION CITY OF POMPAÑO BEACH	EDGE OF PAVEMENT RESTORATION
		APPROVED BY: _____	DATE: _____ DWG. NO. 306-4
		SCALE: N.T.S.	CITY ENGINEER _____



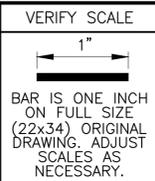
REVISIONS		ENGINEERING STANDARDS	
BY	DATE	UTILITIES DEPARTMENT ENGINEERING DIVISION CITY OF POMPAÑO BEACH	SURFACE RESTORATION
		APPROVED BY: _____	DATE: FEB. 1998 DWG. NO. 306-3
		SCALE: N.T.S.	CITY ENGINEER _____

NO.	DATE	ISSUED FOR	APR'D BY

DESIGNED: K.S.
 DRAWN: J.A.J.
 CHECKED: A.C.
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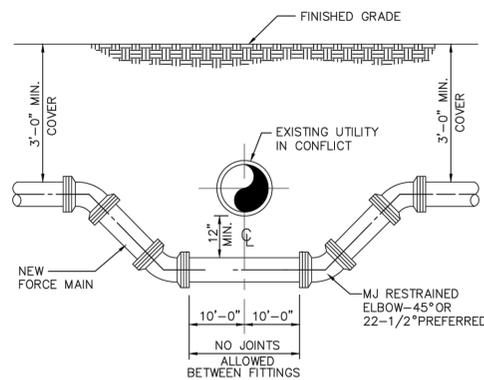


ENGINEER NO.: 1813
 CLIENT PROJECT NO.: 15-260
 CAD REF.: 1813DETAILS

CITY OF POMPAÑO BEACH
AREA "D" SANITARY SEWER SYSTEM
 STANDARD DETAILS - SHEET 1 OF 5

DATE: JANUARY 2016
 SHEET: 12 of 16
 DRAWING: D-1

BIDDING

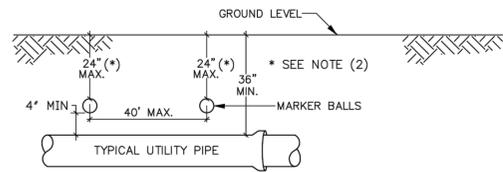


NOTES:
WHERE CONDITIONS PERMIT, PIPE DEFLECTION MAY BE USED INSTEAD OF BENDS TO OBTAIN THE MINIMUM CLEARANCE. FACTORY OFFSETS MAY BE USED.

TYPICAL CONFLICT DETAIL

ENGINEERING STANDARDS 2015

REVISIONS		ENGINEERING DIVISION	TYPICAL CONFLICT (SEWER)	DATE: JUNE 1996
BY	DATE	CITY OF POMPANO BEACH		DWG. NO.
S.S.	JUNE 2005			206-1
S.S.	02/13/12			
		SCALE: N.T.S.		

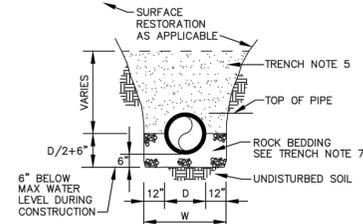


GENERAL NOTES:
1. ALL UTILITY PIPE SHALL BE INSTALLED WITH 4" Ø MARKING BALLS PLACED EVERY 40' AND AT EVERY FITTING, FOR IDENTIFICATION AND WARNING PURPOSES, BURIED ABOVE THE PIPE AT A MAXIMUM DEPTH OF 24" INCHES OR AS APPROVED BY THE OWNER. IT SHALL BE COLOR CODED AND WORDED AS FOLLOWS:
SEWER SYSTEM
A. COLOR: GREEN
B. LETTERING: SANITARY SEWER
C. FREQUENCY OF MARKER BALLS SHALL BE 121.6 Khz.
D. THE MARKER BALLS CAN BE BURIED IN ANY ORIENTATION.
THE MARKER BALLS SHALL BE DETECTABLE BY STANDARD METAL DETECTION EQUIPMENT AND SHALL BE MANUFACTURED BY TEMPO OR 3M LOCATOR SYSTEM OR EQUIVALENT (FREQUENCY 121.6 Khz)
2. FOR LARGE DIAMETER PIPE INSTALLED AT DEPTHS BELOW 4'-0" MARKER BALLS SHALL BE PLACED AT A MAXIMUM DEPTH OF 4'-0" BELOW GRADE *.

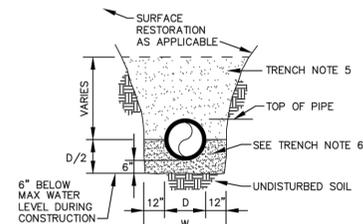
SEWER PIPE IDENTIFICATION

ENGINEERING STANDARDS 2015

REVISIONS		ENGINEERING DIVISION	SEWER PIPE IDENTIFICATION	DATE: JAN 2012
BY	DATE	CITY OF POMPANO BEACH		DWG. NO.
S.S.	01/30/12			207-1
		SCALE: N.T.S.		



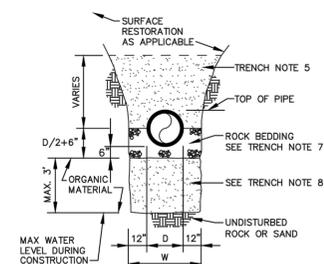
TRENCH BACKFILL / BEDDING CLASS 'B'



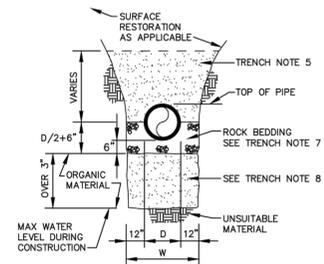
TRENCH BACKFILL / BEDDING CLASS 'A'

ENGINEERING STANDARDS 2015

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



TRENCH BACKFILL / BEDDING CLASS 'C'



TRENCH BACKFILL / BEDDING CLASS 'D'

ENGINEERING STANDARDS 2015

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

- 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.
- TYPICAL TRENCH BACKFILL/BEDDING FOR WATER MAIN AND FORCE MAIN INSTALLATIONS SHALL BE CLASS "A" AS SHOWN IN DETAIL.
- TYPICAL TRENCH BACKFILL/BEDDING FOR GRAVITY SEWER INSTALLATION SHALL BE CLASS "B" AS SHOWN IN DETAIL.
- TRENCH BACKFILL/BEDDING CLASS "C" AND CLASS "D" SHALL BE USED FOR PIPE INSTALLATIONS WHERE UNSUITABLE TRENCH MATERIALS ARE ENCOUNTERED.
- 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).
- 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).
- 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).
- 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

ENGINEERING STANDARDS 2015

REVISIONS		ENGINEERING DIVISION	TRENCH BACKFILL / BEDDING	DATE: JUNE 1996
BY	DATE	CITY OF POMPANO BEACH		DWG. NO.
S.S.	01/12			203-3
		SCALE: N.T.S.		

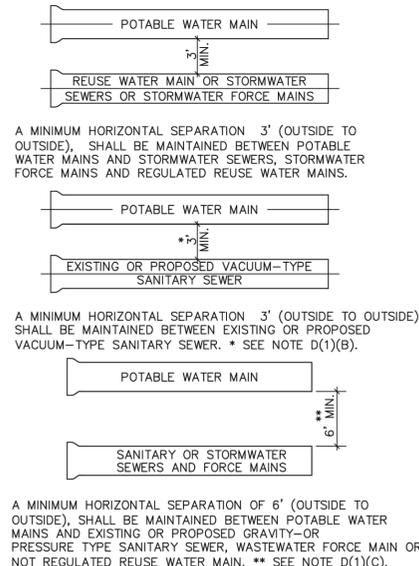
- BEDDING TYPES - THE FOLLOWING TYPES OF SUITABLE MATERIALS ARE DESIGNATED AND DEFINED AS FOLLOWING:
TYPE A: CRUSHED LIMEROCK OR SAND WITH 100 PERCENT PASSING A 1 INCH SIEVE AND A SAND EQUIVALENT VALUE NOT LESS THAN 50.
TYPE B: CRUSHED LIMEROCK OR SAND WITH 100 PERCENT PASSING A 1/2 INCH SIEVE AND A 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 LIMEROCK WITH 100 PERCENT PASSING A 1 INCH SIEVE AND NOT MORE THAN 10 PERCENT A NUMBER 4 SIEVE.
TYPE E: CRUSHED LIMEROCK 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 LIMEROCK 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 2015

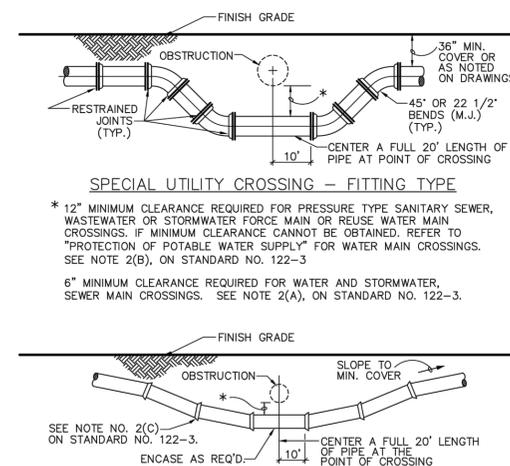
REVISIONS		ENGINEERING DIVISION	TRENCH BACKFILL / BEDDING	DATE: JUNE 1996
BY	DATE	CITY OF POMPANO BEACH		DWG. NO.
S.S.	01/12			203-4
		SCALE: N.T.S.		



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

ENGINEERING STANDARDS 2015

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



UTILITY CROSSINGS

- NOTES:
- THE DEFLECTION TYPE CROSSING SHALL BE USED WHEREVER POSSIBLE. ONLY UNDER SPECIFIC ORDERS BY THE ENGINEER SHALL THE FITTING TYPE CROSSING BE ALLOWED.
 - CONSTRUCT STANDARD CROSSING USING NO MORE THAN 75% OF MANUFACTURERS' MAXIMUM JOINT DEFLECTION.
 - FOR POTABLE WATER MAINS, REFER TO "PROTECTION OF POTABLE WATER SUPPLY".

ENGINEERING STANDARDS 2015

REVISIONS		ENGINEERING DIVISION	UTILITY CROSSINGS	DATE: JAN. 2012
BY	DATE	CITY OF POMPANO BEACH		DWG. NO.
S.S.	01/12			122-1
		SCALE: N.T.S.		

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

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

ENGINEER NO.: 1813
CLIENT
PROJECT NO.: 15-260
CAD REF.: 1813DETAILS

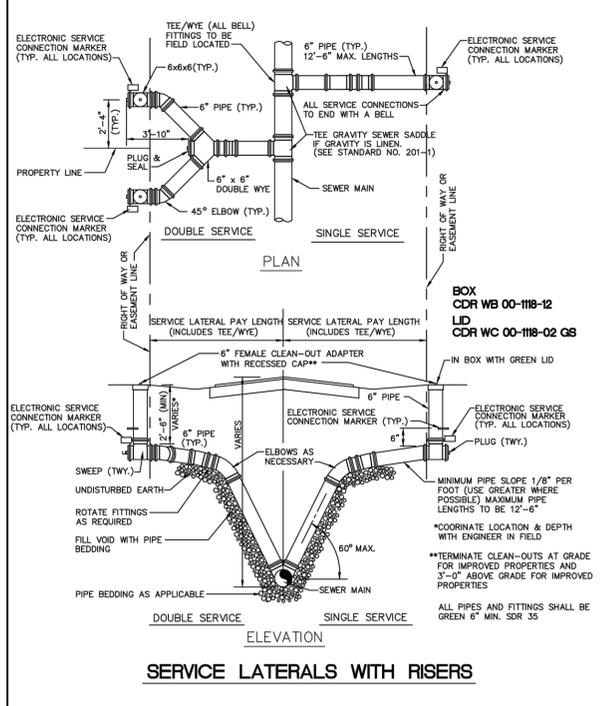
CITY OF POMPANO BEACH
AREA "D" SANITARY SEWER SYSTEM

STANDARD DETAILS - SHEET 2 OF 5

DATE: JANUARY 2016
SHEET: 13 of 16
DRAWING: D-2

BIDDING

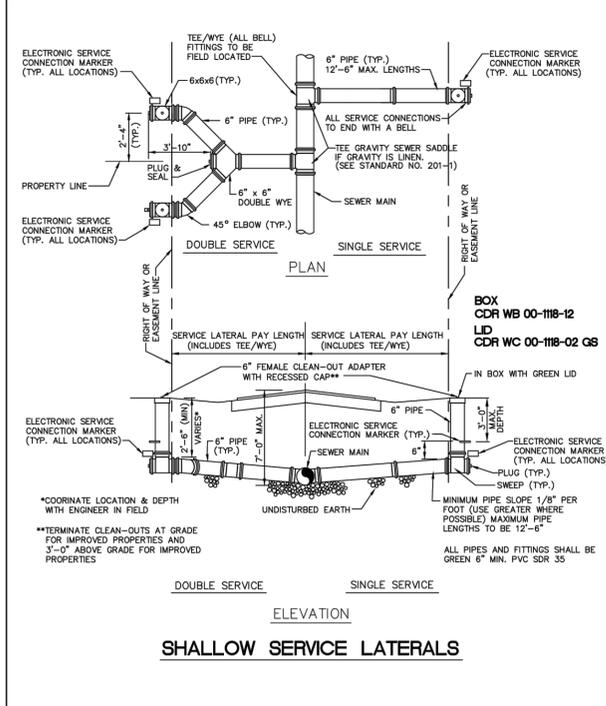
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 Acad Version : R19.0s (LMS Tech)
 User Name : jenkins



ENGINEERING STANDARDS 2015

REVISIONS		ENGINEERING DIVISION	SERVICE LATERALS	DATE: JUNE 1996
BY	DATE	CITY OF POMPAÑO BEACH		DWG. NO.
S.S.	JUNE 2005			200-1
T.W.	11-2007			
S.S.	01/27/12			
S.S.	07/10/12			

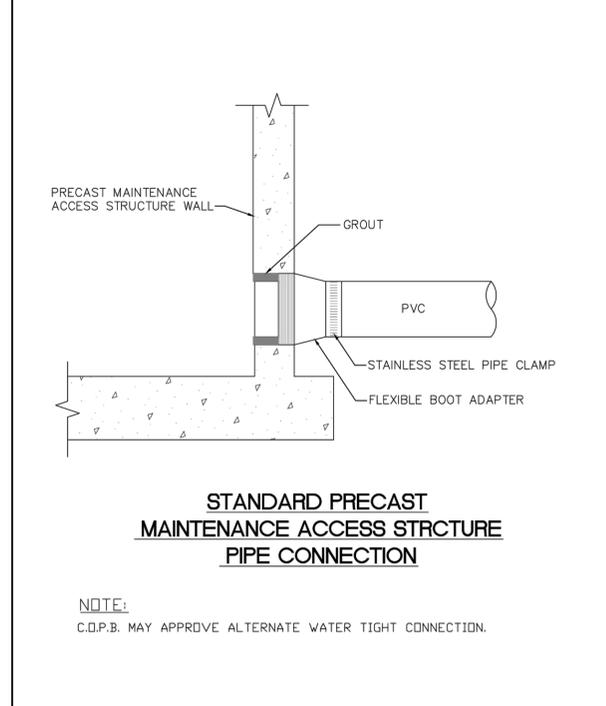
SCALE: N.T.S.



ENGINEERING STANDARDS 2015

REVISIONS		ENGINEERING DIVISION	SERVICE LATERALS	DATE: JUNE 1996
BY	DATE	CITY OF POMPAÑO BEACH		DWG. NO.
S.S.	JUNE 2005			200-2
T.W.	11-2007			
S.S.	01/27/12			
S.S.	07/10/12			

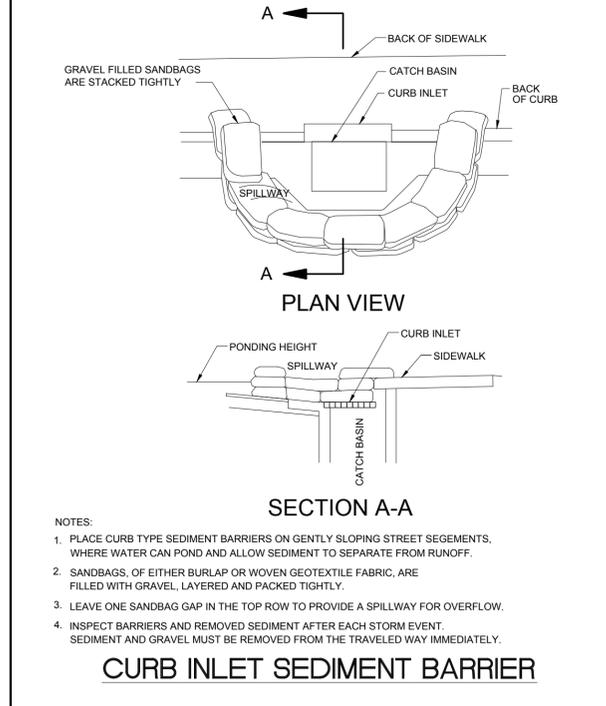
SCALE: N.T.S.



ENGINEERING STANDARDS 2015

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

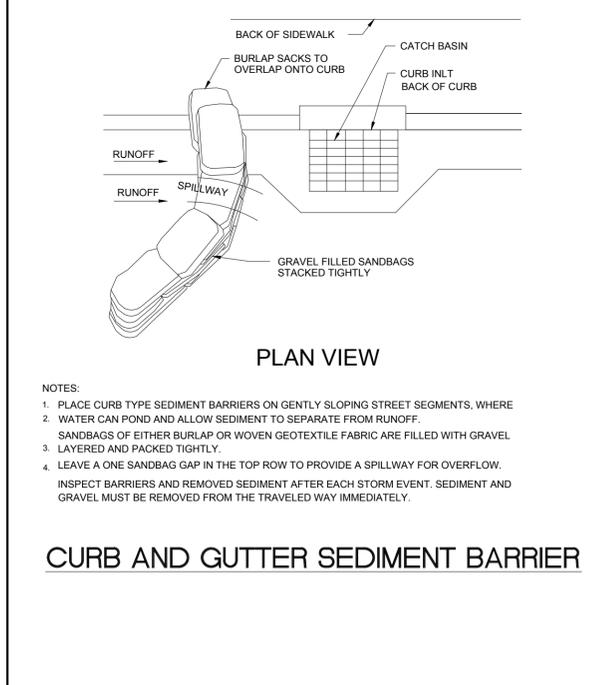
SCALE: N.T.S.



ENGINEERING STANDARDS 2014

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

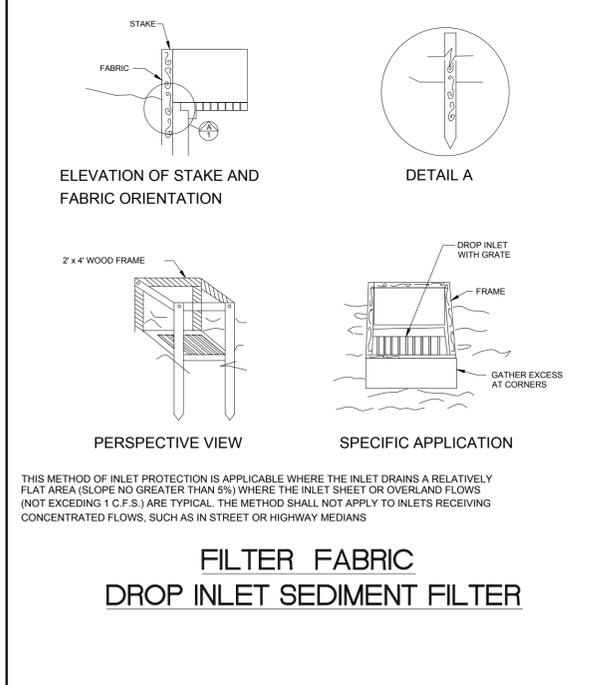
SCALE: N.T.S.



ENGINEERING STANDARDS 2014

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

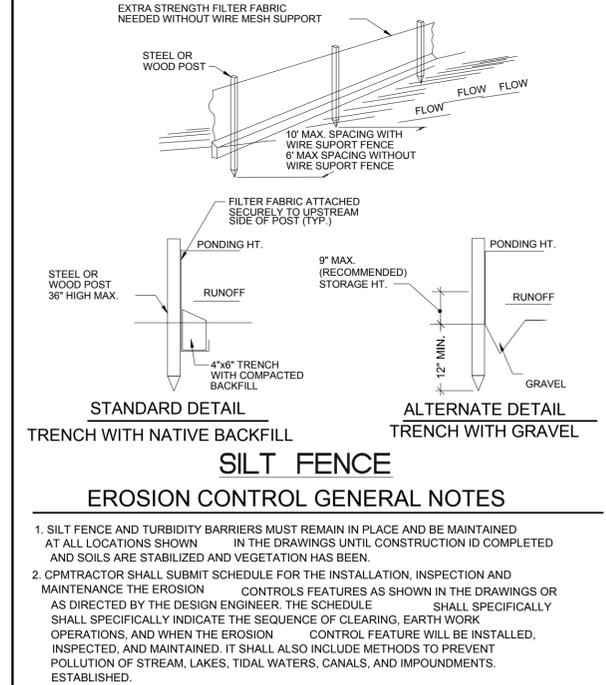
SCALE: N.T.S.



ENGINEERING STANDARDS 2014

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

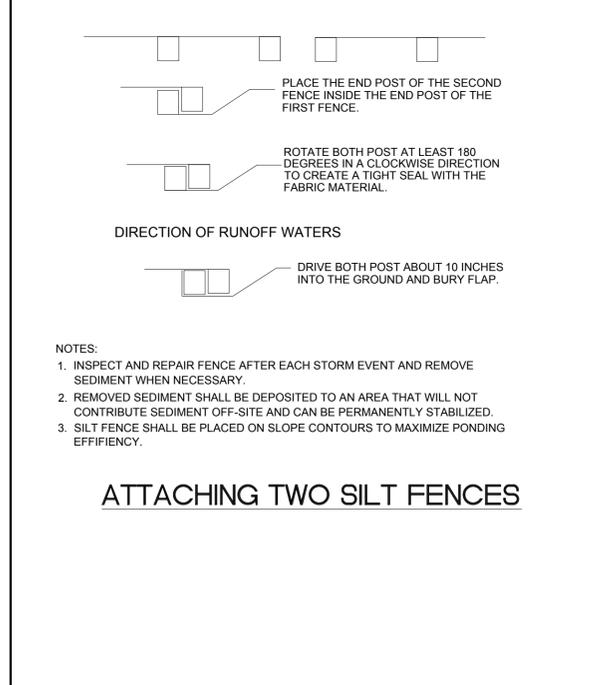
SCALE: N.T.S.



ENGINEERING STANDARDS 2014

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

SCALE: N.T.S.



ENGINEERING STANDARDS 2014

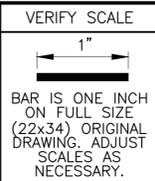
REVISIONS		ENGINEERING DIVISION	ATTACHING TWO SILT FENCES	DATE: MAY 2007
BY	DATE	CITY OF POMPAÑO BEACH		DWG. NO.
				509-2

SCALE: N.T.S.

NO.	DATE	ISSUED FOR	APR'D BY

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

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 www.matthewsconsultinginc.com EB-0007929



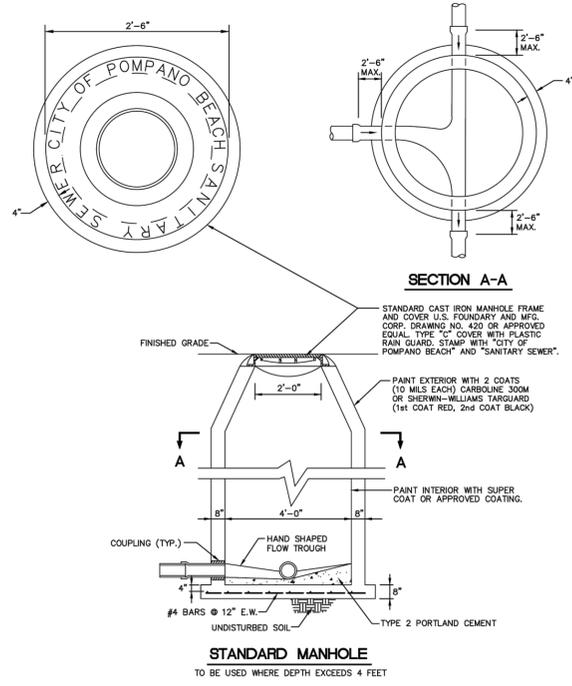
ENGINEER NO.: 1813
 CLIENT PROJECT NO.: 15-260
 CAD REF.: 1813DETAILS

CITY OF POMPAÑO BEACH
AREA "D" SANITARY SEWER SYSTEM
 STANDARD DETAILS - SHEET 3 OF 5

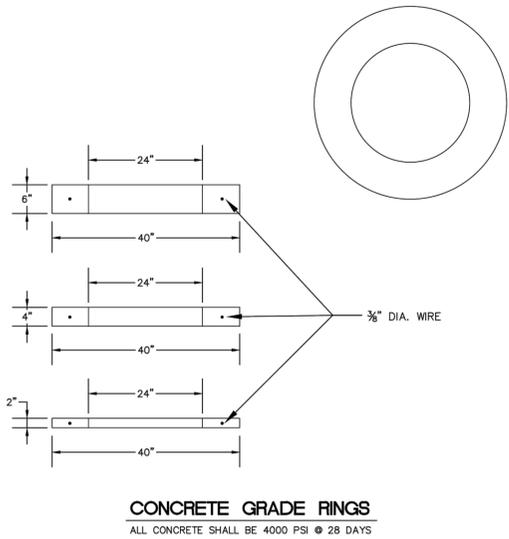
DATE: JANUARY 2016
 SHEET: 14 of 16
 DRAWING: D-3

BIDDING

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 Acad Version : R19.0s (LMS Tech)
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 Layout Tab: D-4
 User Name : jenkins



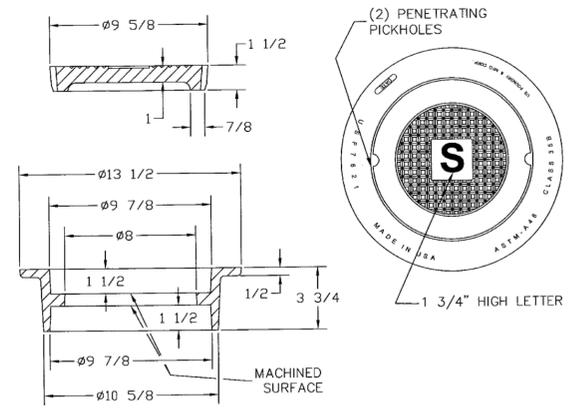
REVISIONS		ENGINEERING DIVISION	STANDARD MANHOLE
BY	DATE	CITY OF POMPAÑO BEACH	
S.S.	JUNE 2005		
T.W.	11-2007		
S.S.	12-2013		
		SCALE: N.T.S.	DATE: JUNE 1996 DWG. NO. 215-1



CONCRETE GRADE RINGS
 ALL CONCRETE SHALL BE 4000 PSI @ 28 DAYS

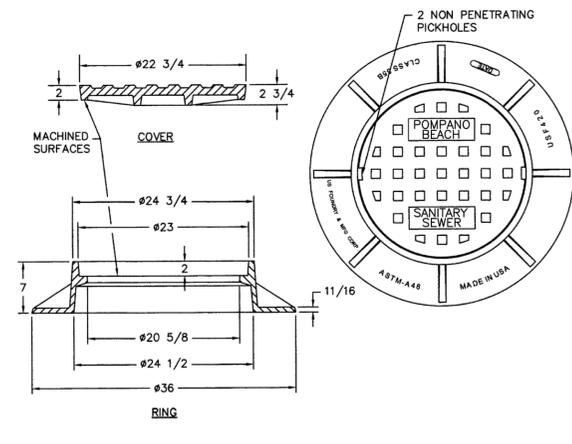
NOTES:
 2' 0.054 c.y. / 220 lbs
 4' 0.108 c.y. / 430 lbs
 6' 0.162 c.y. / 650 lbs

REVISIONS		ENGINEERING DIVISION	CONCRETE GRADE RINGS
BY	DATE	CITY OF POMPAÑO BEACH	
S.S.	JUNE 2005		
T.W.	11-2007		
S.S.	12-2013		
		SCALE: N.T.S.	DATE: DECEMBER 2013 DWG. NO. 216-2



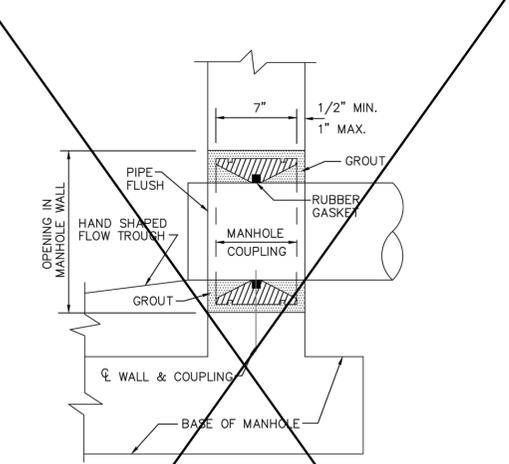
SEWER BOX AND COVER - HEAVY TRAFFIC

REVISIONS		ENGINEERING DIVISION	SEWER BOX AND COVER HEAVY TRAFFIC
BY	DATE	CITY OF POMPAÑO BEACH	
S.S.	JUNE 2005		
T.W.	11-2007		
S.S.	12-2013		
		SCALE: N.T.S.	DATE: FEB. 2012 DWG. NO. 210-3



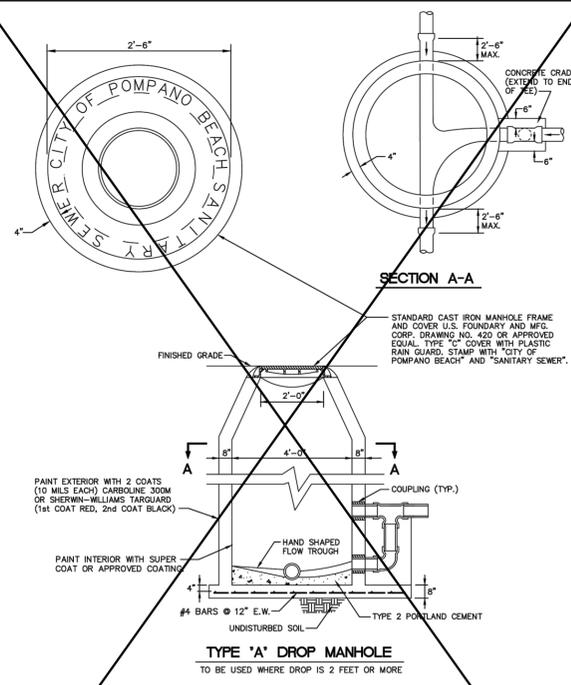
TRAFFIC RATED FRAME & COVER

REVISIONS		ENGINEERING DIVISION	TRAFFIC RATED SEWER COVER
BY	DATE	CITY OF POMPAÑO BEACH	
S.S.	JUNE 2005		
T.W.	11-2007		
S.S.	12-2013		
		SCALE: N.T.S.	DATE: FEB. 2012 DWG. NO. 211-1

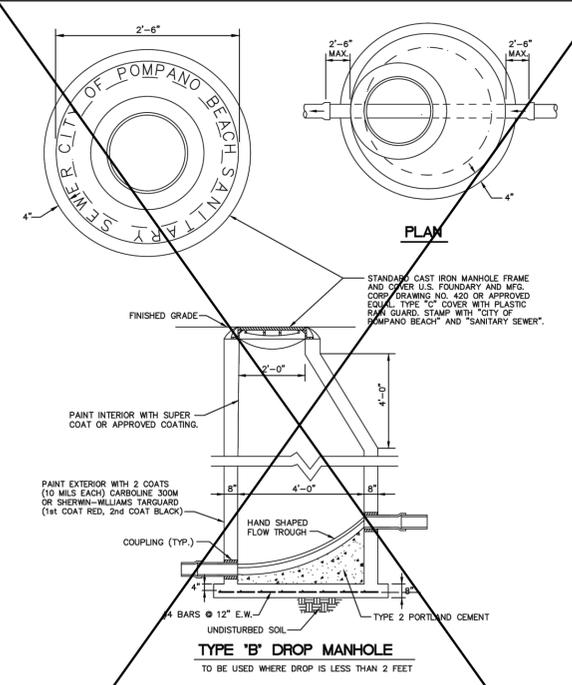


MANHOLE COUPLING

REVISIONS		ENGINEERING DIVISION	MANHOLE COUPLING
BY	DATE	CITY OF POMPAÑO BEACH	
S.S.	JUNE 2005		
T.W.	11-2007		
S.S.	12-2013		
		SCALE: N.T.S.	DATE: JUNE 1996 DWG. NO. 212-1



REVISIONS		ENGINEERING DIVISION	TYPE 'A' DROP MANHOLE
BY	DATE	CITY OF POMPAÑO BEACH	
S.S.	JUNE 2005		
T.W.	11-2007		
S.S.	12-2013		
		SCALE: N.T.S.	DATE: JUNE 1996 DWG. NO. 213-1



REVISIONS		ENGINEERING DIVISION	TYPE 'B' DROP MANHOLE
BY	DATE	CITY OF POMPAÑO BEACH	
S.S.	JUNE 2005		
T.W.	11-2007		
S.S.	12-2013		
		SCALE: N.T.S.	DATE: JUNE 1996 DWG. NO. 214-1

NO.	DATE	ISSUED FOR	APRVD BY

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

DAVID L. MATHEWS, P.E.
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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.

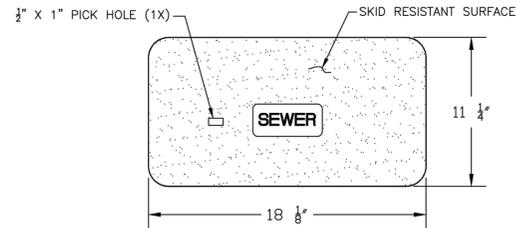
ENGINEER NO.: 1813
 CLIENT PROJECT NO.: 15-260
 CAD REF.: 1813DETAILS

CITY OF POMPAÑO BEACH
AREA "D" SANITARY SEWER SYSTEM
 STANDARD DETAILS - SHEET 4 OF 5

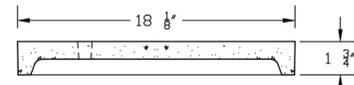
DATE: JANUARY 2016
 SHEET: 15 of 16
 DRAWING: D-4

BIDDING

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TOP VIEW



SECTION

NOTE

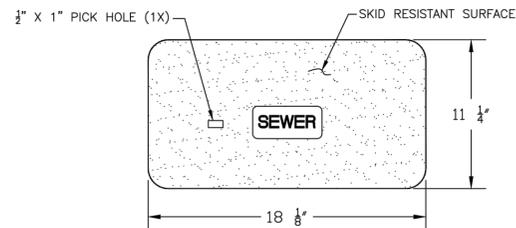
1. MATERIAL: FIBERGLASS REINFORCED POLYMER CONCRETE & FIBERGLASS REINFORCED POLYMER
2. COLOR: GREEN
3. LOAD RATING: A8 (ASTM C857)
4. LOGO: SEWER

SEWER BOX AND COVER

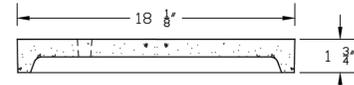
PRODUCT RATING - NON TRAFFIC						
LOAD DESIGNATION	DESCRIPTION	DESIGN LOADS			TESTING	
		LIVE LB/WHEEL (2)	LIVE + IMPACT LB/WHEEL	SIDE PSF (3)	LOAD,LBS	SAFETY FACTOR
AASHTO H10	LIGHT TRUCK TRAFFIC	8,000	10,400	N/A	22,568 (4)	2.82

ENGINEERING STANDARDS 2015

REVISIONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	SEWER BOX AND COVER CDR Part No. WB03-1118-12 CDR Part No. WC00-1118-02	DATE: AUGUST 2007 DWG. NO. 210-1
BY	DATE			
SCALE: N.T.S.				



TOP VIEW



SECTION

NOTE

1. MATERIAL: FIBERGLASS REINFORCED POLYMER CONCRETE & FIBERGLASS REINFORCED POLYMER
2. COLOR: GREEN
3. LOAD RATING: A8 (ASTM C857)
4. LOGO: SEWER

SEWER BOX AND COVER

PRODUCT RATING - TRAFFIC						
LOAD DESIGNATION	DESCRIPTION	DESIGN LOADS			TESTING	
		LIVE LB/WHEEL (2)	LIVE + IMPACT LB/WHEEL	SIDE PSF (3)	LOAD,LBS	SAFETY FACTOR
AASHTO H15	MEDIUM TRUCK TRAFFIC	12,000	15,600	N/A	27,000 (5)	2.25

ENGINEERING STANDARDS 2015

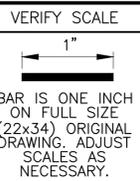
REVISIONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	SEWER BOX AND COVER CDR Part No. WB04-1118-12 CDR Part No. WC02-1118-02	DATE: AUGUST 2007 DWG. NO. 210-2
BY	DATE			
SCALE: N.T.S.				

NO.	DATE	ISSUED FOR	APRV'D BY

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

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

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ENGINEER NO.: 1813
 CLIENT PROJECT NO.: 15-260
 CAD REF.: 1813DETAILS

CITY OF POMPANO BEACH
AREA "D" SANITARY SEWER SYSTEM
 STANDARD DETAILS – SHEET 5 OF 5

DATE: JANUARY 2016
 SHEET: 16 of 16
 DRAWING: D-5

BIDDING