

TRACT MM OF VENEZIA SOUTH, ACCORDING TO THE PLAT THEREOF AS
RECORDED IN PLAT BOOK 65, PAGE(S) 92 THROUGH 97, INCLUSIVE, OF
THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.

PARCEL ID: 35-20-25-0200-0MM-00000
SECTION 36, TOWNSHIP 20 SOUTH, RANGE 25 EAST
HOWEY-IN-THE-HILLS, LAKE COUNTY, FLORIDA

PARCEL ID: 35-20-25-0200-0MM-00000

SECTION 36, TOWNSHIP 20 SOUTH, RANGE 25 EAST

HOWEY-IN-THE-HILLS, LAKE COUNTY, FLORIDA

FOR

D. R. HORTON

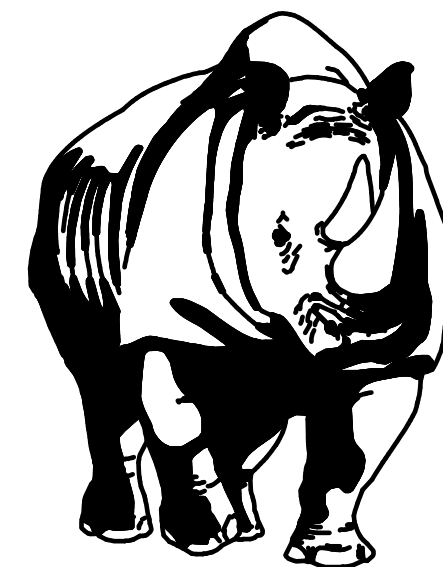
10192 DOWDEN ROAD

ORLANDO, FL 32832

(407) 850-5245

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MOORHEAD & STOKES, LLC

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MAITLAND, FLORIDA 32751

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1190 BUSINESS CENTER DR., SUITE 2000
LAKE MARY, FL 32746

ENVIRONMENTAL:

MODICA & ASSOCIATES, INC.
302 MOHAWK ROAD
CLERMONT, FL 34711
PHONE: (352) 394-2000

DEVELOPER:

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SURVEYOR:

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ORLANDO, FL 32803
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ORLANDO, FL 32811
PHONE: (407) 423-0504

UTILITY PROVIDERS:

WATER & WASTE WATER:

HOWEY IN THE HILLS
316 W. CENTRAL AVENUE
HOWEY-IN-THE-HILLS, FL 34737
PHONE: (352) 324-2290

CABLE:

COMCAST
8130 CR 44 LEG A
LEESBURG, FL 34788
(352) 315-8527

PHONE

LUMEN TECHNOLOGIES
33 N. MAIN ST.
WINTER GARDEN, FL 34778
PHONE: (407) 553-7111

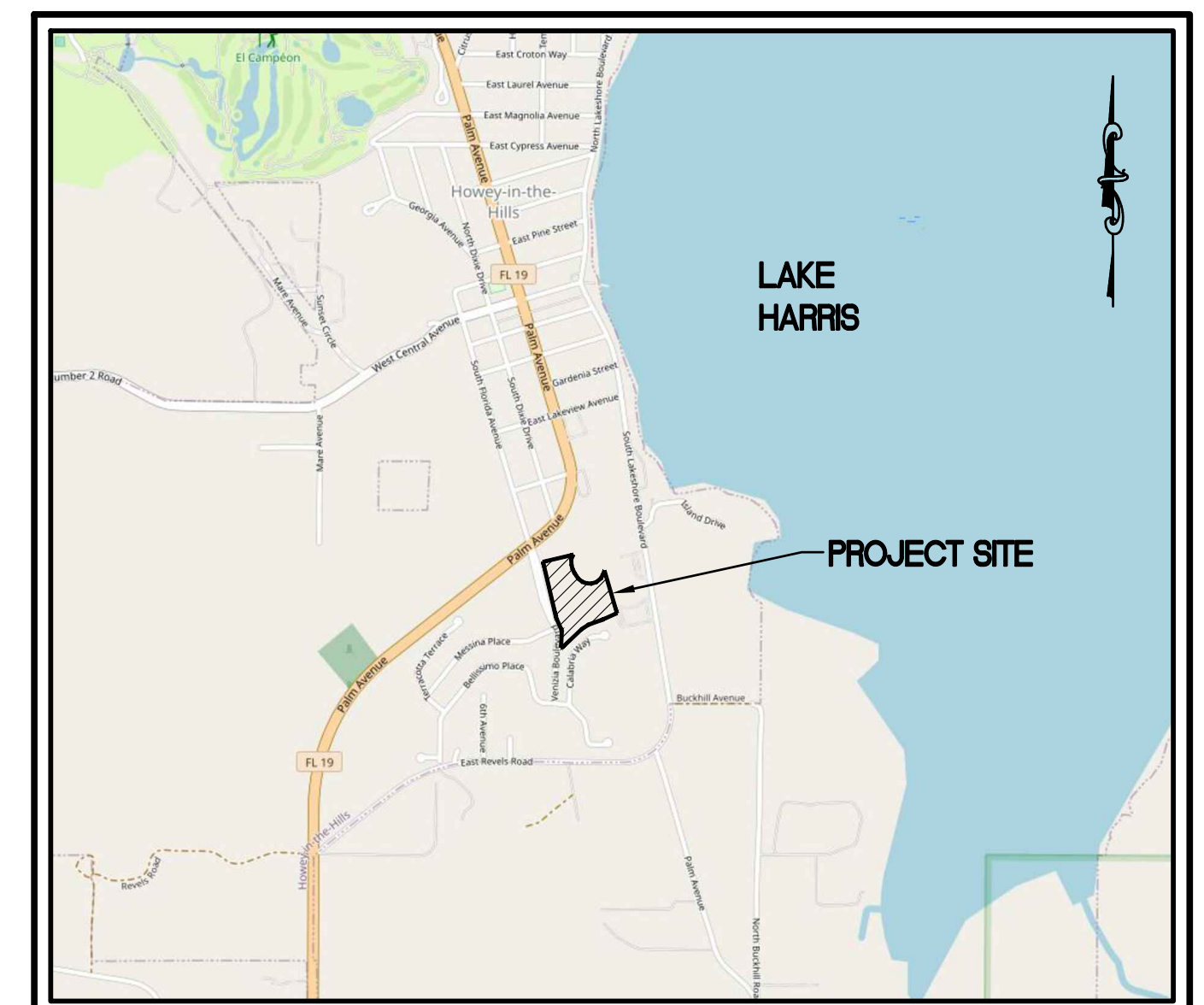
GAS:



TECO ENERGY
600 W. ROBINSON ST.
ORLANDO, FL 32801
PHONE: (407) 420-6663

POWER:

DUKE ENERGY
3250 BONNETT CREEK RD.
P.O. BOX 10000
LAKE BUENA VISTA, FL 32830
PHONE: (407) 938-6611

VICINITY MAP

$$1'' = 2,000'$$


This seal has been electronically signed and
 the seal number has been electronically verified.
 The digital signature and seal number are valid
 only if the document is not altered after the
 date of signing. Please refer to the Florida
 Board of Professional Engineers website at
 www.fbe.org for more information.
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Digitally signed by Benjamin J. Beckham
 Bechkam:A01410C000017777CA2E28200
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 DN: c=US, o=Unaffiliated, ou=Benjamin J.
 Beckham, A01410C000017777CA2E28200
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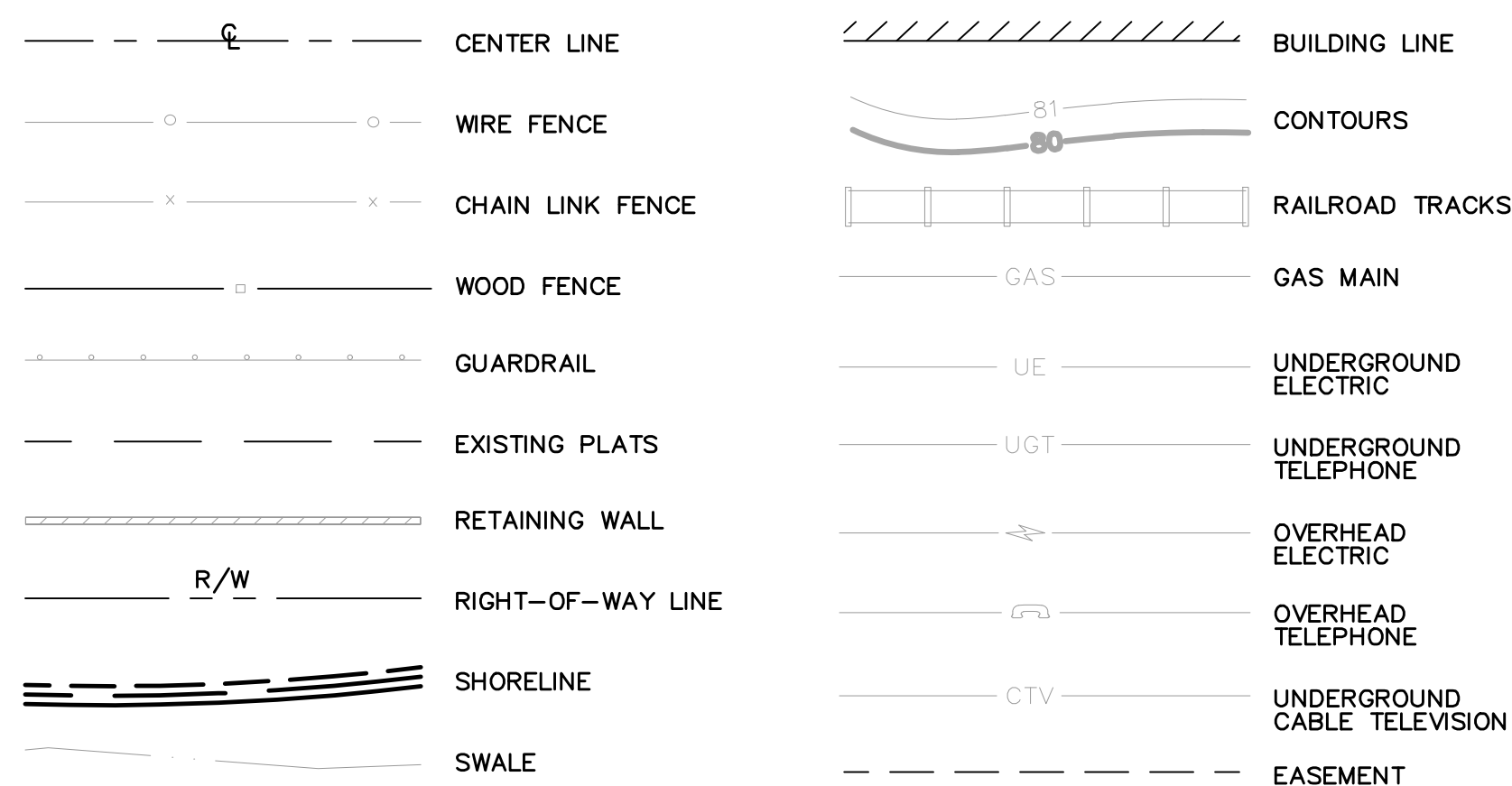
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ABBREVIATIONS

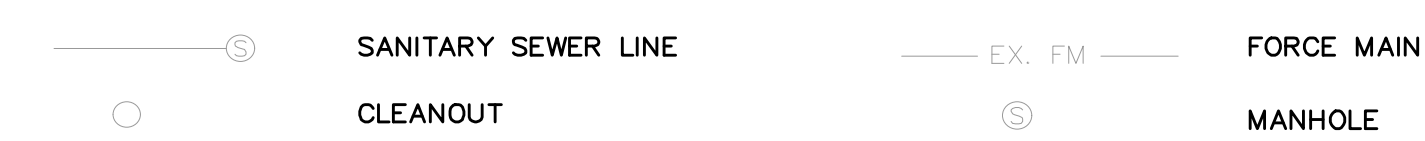
A	AREA	F	F&C	FRAME AND COVER	P	PC	POINT OF CURVATURE		
	AB		FD	FLOOR DRAIN		PCC	POINT OF COMPOUND CURVATURE		
	ABD		FDN	FLOOR FOUNDATION		PFGP	POLYETHYLENE PIPE		
	AC		FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION		P/	PROFILE GRADE POINT OF INTERSECTION		
	AC-FT		FI	FINISHED FLOOR		P/L	PROPERTY LINE		
	ACP		F&I	FINISHED GRADE		POB	POINT OF BEGINNING		
	ADDL		FI	FIRE HYDRANT		POJ	PUSH ON JOINT		
	ADT		F&I	FURNISH AND INSTALL		PP	POWER POLE		
	AL		FIG	FIGURE		PR	PHONE RISER		
	ALT		FIN	FINISHED		PR	POINT OF REVERSE CURVATURE		
	AM		FIG	FITTING		PREC	PRESSURE		
	AMP		FL	FLEX LINE		PROJ	PROJECT		
	APPROX		FLOOR	FLOOR		PRVC	POINT OF REVERSE VERTICAL CURVE		
	ARY		FLEX	FLEXIBLE		PSF	POUNDS PER SQUARE FOOT		
	ARVV		FLG	FLANGE		PPS	POUNDS PER SQUARE INCH		
	ASPH		FM	FORCE MAIN		PT	POINT OF TANGENCY		
	ASSY		FND	FOUND		PVC	POLYVINYL CHLORIDE		
AVE	FPH	FEET PER HOUR	PVMT	PAVEMENT					
AZ	FPM	FEET PER MINUTE	PWR	POWER					
AZMUTH	FPS	FEET PER SECOND							
	FT	FEET/FOOT							
	FTG	FOOTING							
B	BACKFLOW PREVENTER	G	GA	GAUGE	Q	Q	FLOW RATE		
	BL		GAL	GALLON					
	BLDG		GALV	GALVANIZED					
	BLVD		GM	GAS MAIN					
	BO		GPD	GALLONS PER DAY					
	BM		GPH	GALLONS PER HOUR					
	BND		GPM	GALLONS PER MINUTE					
	BO		GPS	GALLONS PER SECOND					
	BLOWOFF		GR	GROUND RAIL					
	BACK OF CURB		GRD	GROUND/GRADE					
	BRG		GSP	GALVANIZED STEEL PIPE					
	BS		GV	GATE VALVE					
	BOTTOM OF SLOPE		GWB&	GATE VALVE AND BOX					
	BUTTERFLY VALVE		GWI	GUY WIRE					
			GWT	GROUND WATER TABLE					
	C		CAPACITY	H				HB	HOSE BIBB
CB		HDPE	HIGH DENSITY POLYETHYLENE						
CC		HW	HARDWARE						
CEM		HOA	HOME OWNERS ASSOCIATION						
CF		HORIZ	HORIZONTAL						
CFM		HP	HORSEPOWER						
CFS		HR	HOUR						
C&G		HT	HEIGHT						
CI		HW	HEADWALL						
CIP		HWL	HIGH WATER LEVEL						
CL		HYD	HIGHWAY						
CLP		HWY	HYDRAULIC						
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CLS									
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D	DOUBLE	I	I-4	INTERSTATE HIGHWAY	S	S	SOUTH		
	DEC OR		INT	INTERSECTION ANGLE					
	DEFLECT(ION)		ID	INSIDE DIAMETER					
	DEPT		IF	INSIDE FACE					
	DET		IN	INCHES					
	DHWH		INL	INLET					
	DIA		INS	INSERT					
	DICUTLE IRON		INT	INSTALL					
	DIA		IP	IRON PIPE					
	DIA		IR	IRON ROD					
	DIA		INT	INTERSECT/INTERSECTION					
	DIA		INV	INVERT					
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EXISTING SYMBOLS

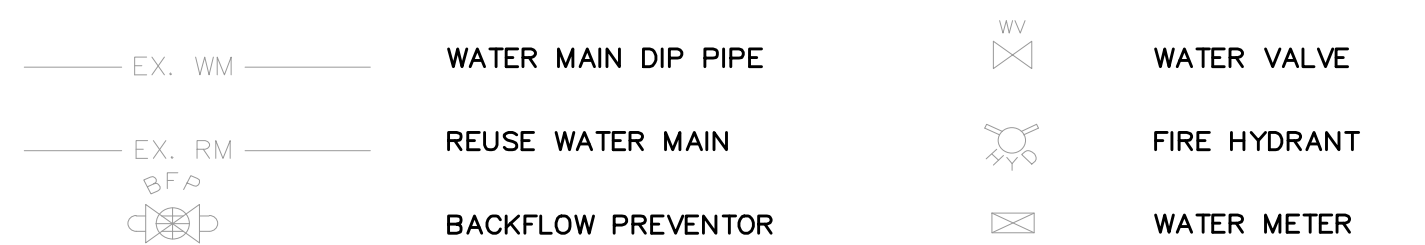
LINES



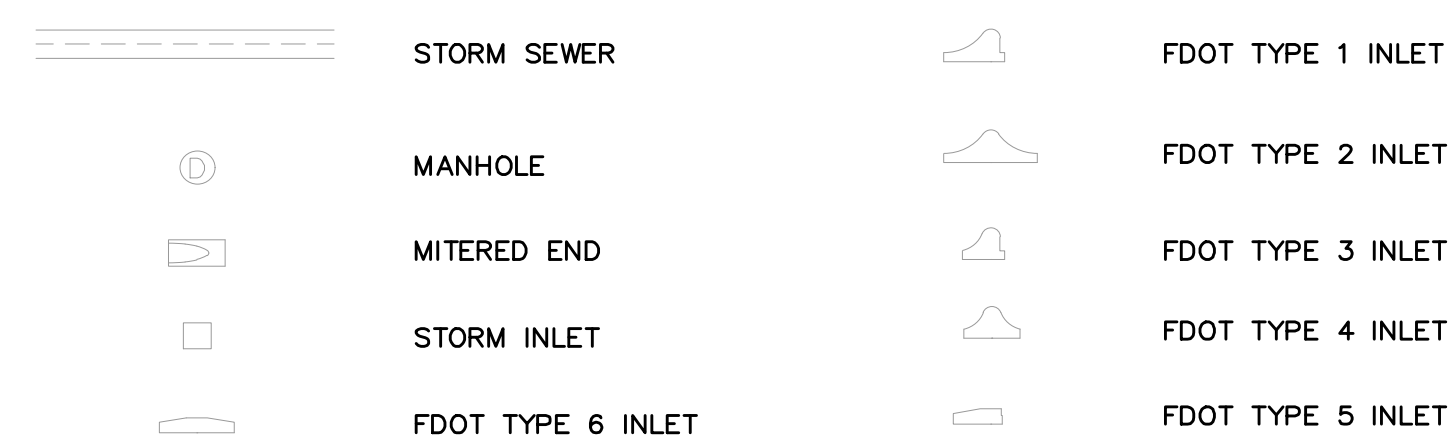
SANITARY



WATER & REUSE WATER



STORM DRAIN

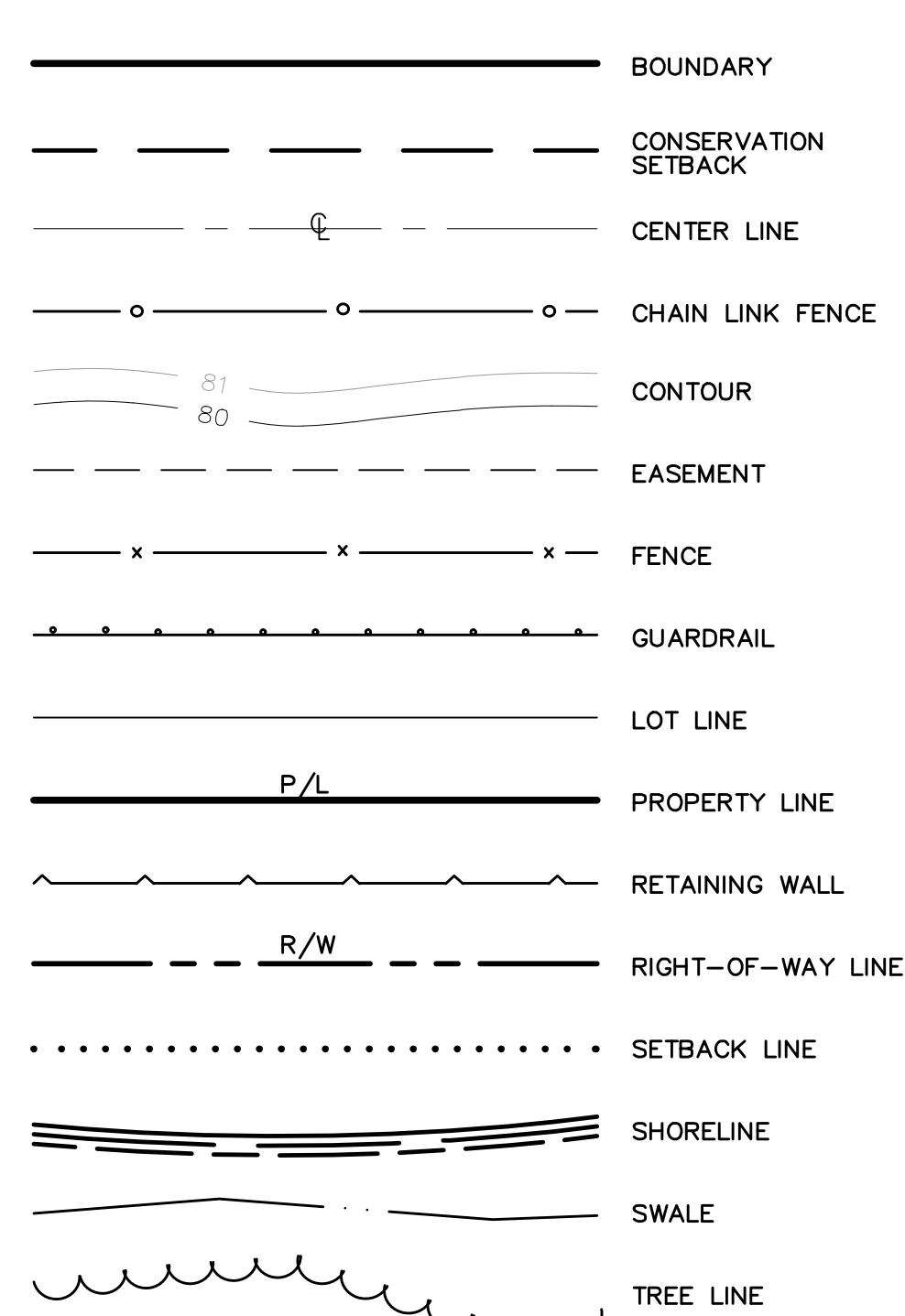


HIGHWAY & UTILITIES

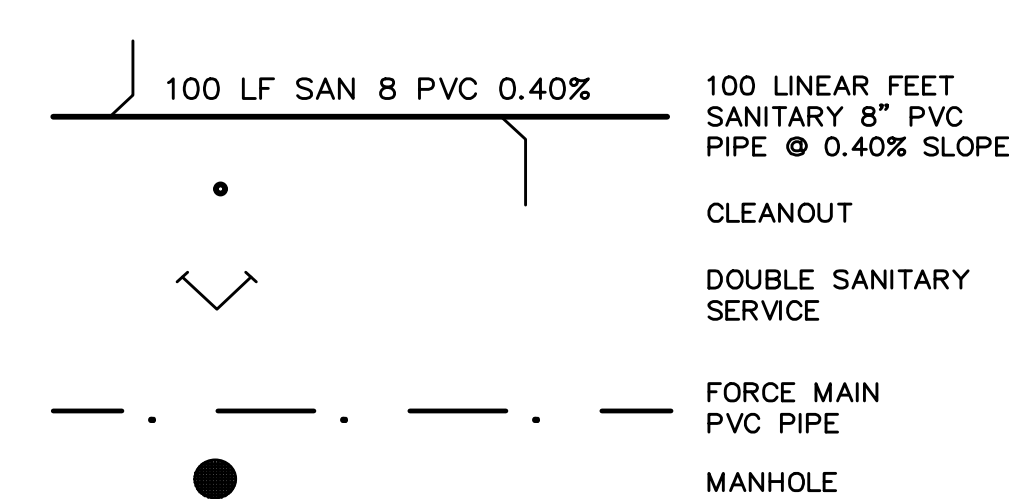


PROPOSED SYMBOLS

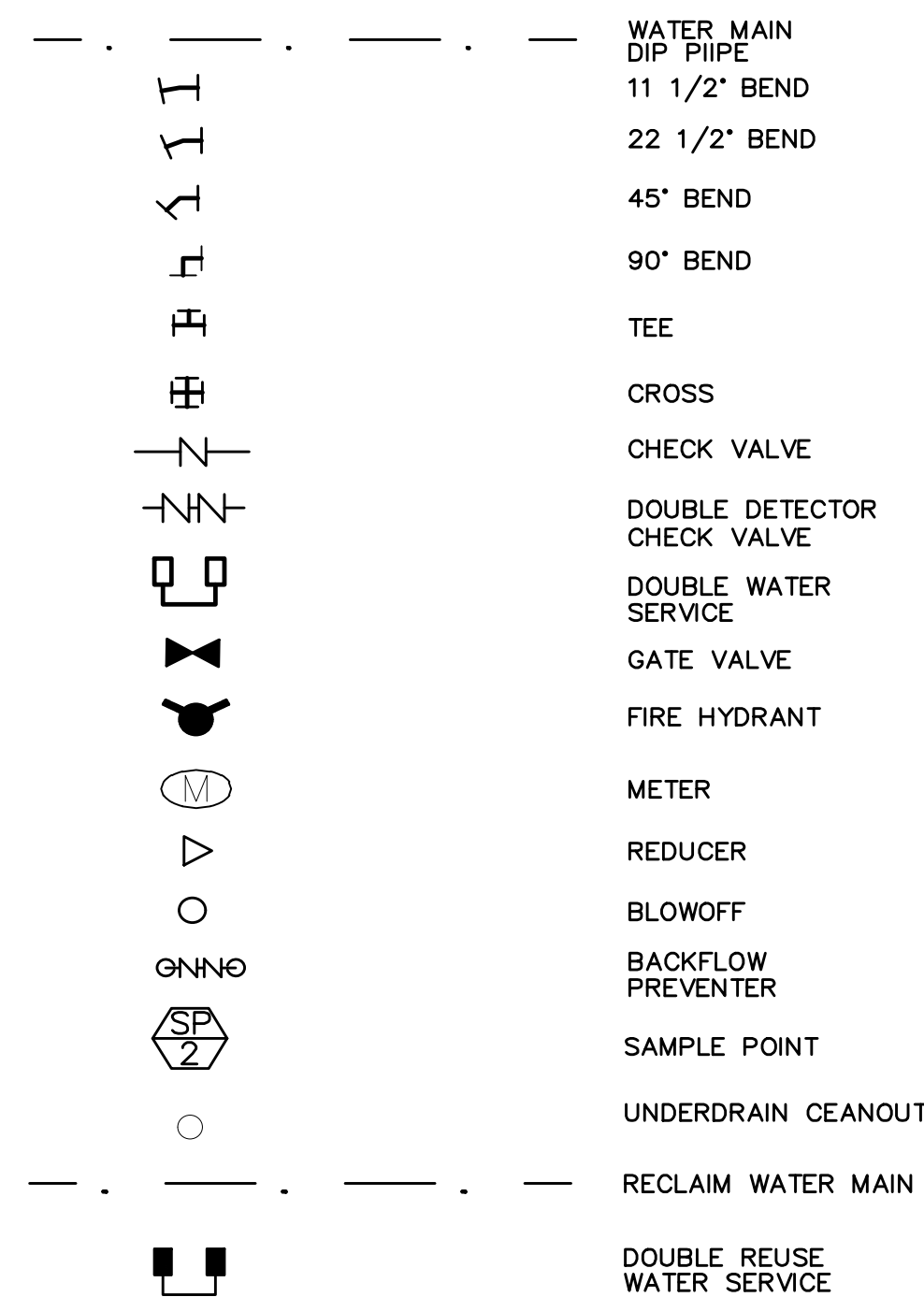
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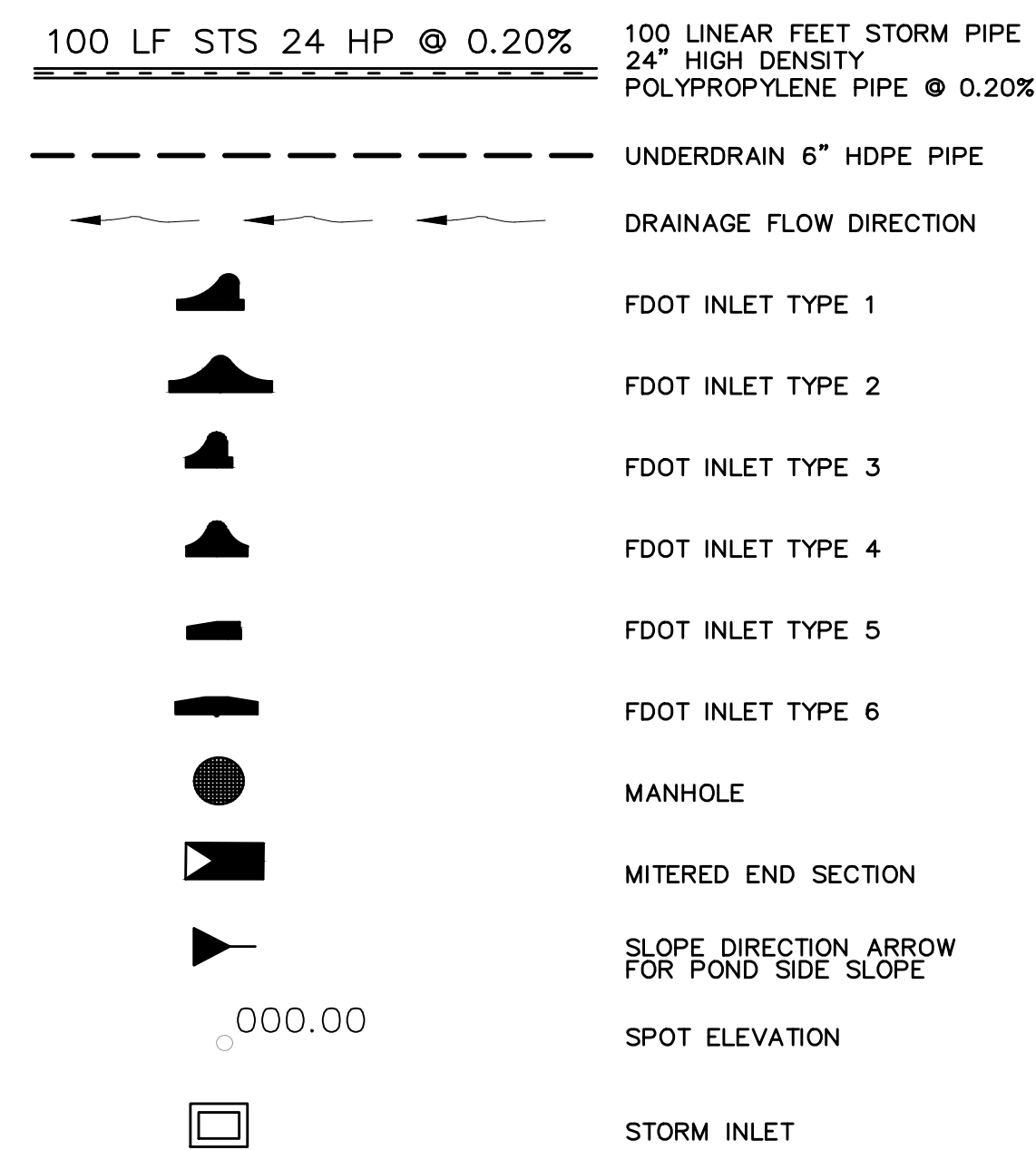
SANITARY



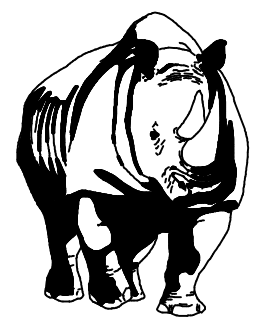
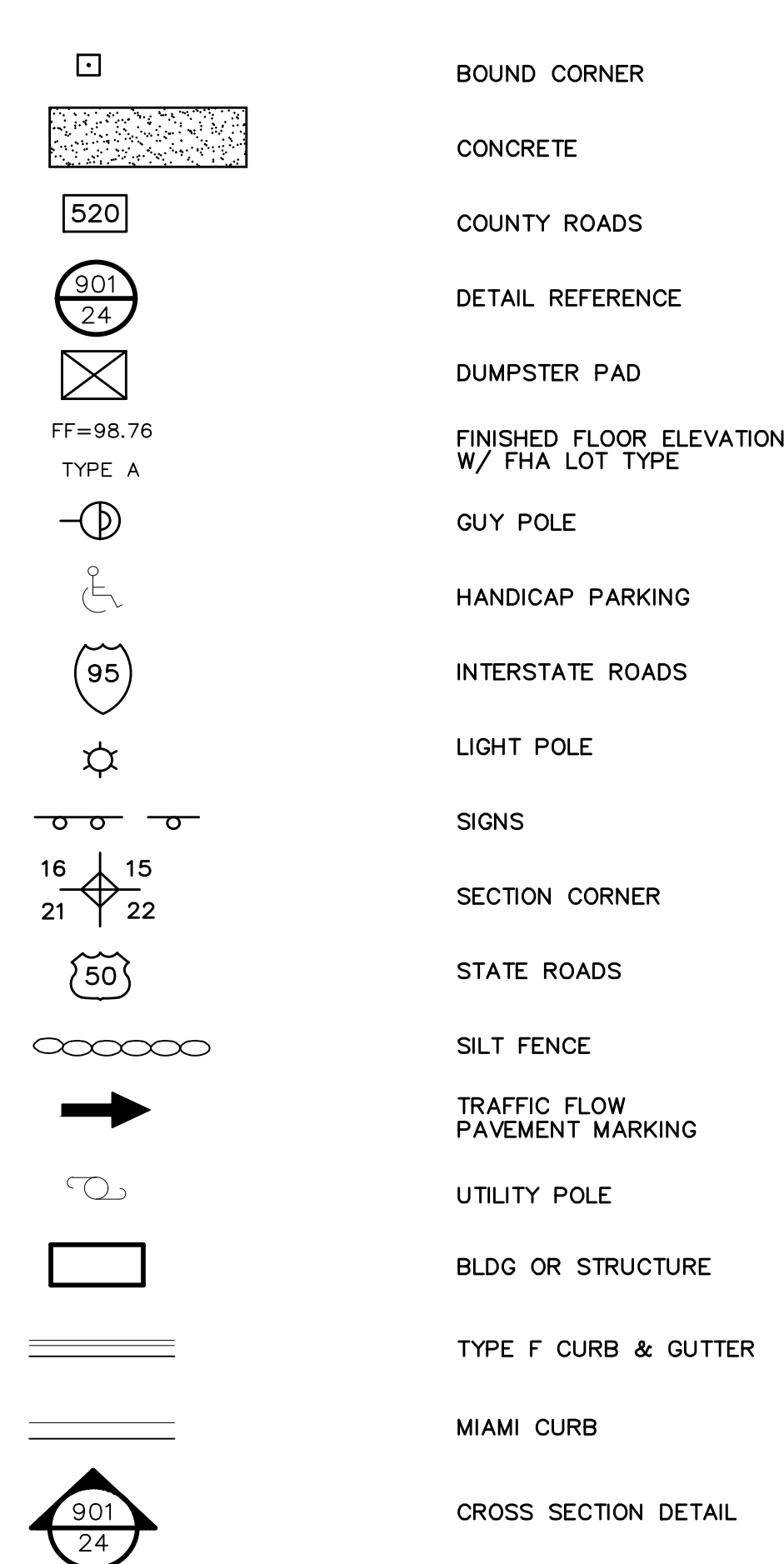
WATER & REUSE WATER



STORM DRAIN



HIGHWAY & UTILITIES

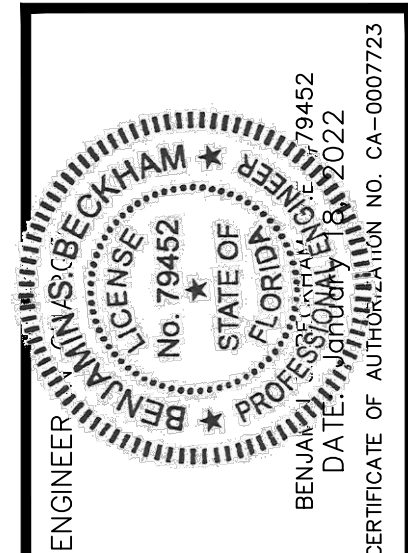


MADDEN
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SYMBOLS + ABBREVIATIONS
FOR
VENEZIA TOWNHOMES
LAKE COUNTY
HOWEY-IN-THE-HILLS, FLORIDA

D. R. HORTON
10192 DOWDEN RD., SUITE 150
ORLANDO, FL 32832
(407) 850-5245



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	DATE REVISIONS

JOB # 21052
DATE: 10/22/2021
SCALE: N.T.S.
DESIGNED BY: BSB
DRAWN BY: JAS
APPROVED BY: BSB

C002

GENERAL NOTES

- ALL CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH THE LATEST LOCAL AGENCY DETAILS, THE FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION adopted in 1991 by the STATE OF FLORIDA, AND ALL SUPPLEMENTS THERETO, AND THE FOOT DESIGN STANDARDS, WHICHEVER IS MORE STRINGENT.
- ALL FOOT DESIGN INDICES ARE HEREBY INCORPORATED AS PLAN REFERENCES HEREIN. CONTRACTOR IS RESPONSIBLE FOR OBTAINING COMPLETE COPIES OF ALL APPLICABLE INDEX DRAWINGS AND CONSTRUCTING ALL WORKS IN CONFORMANCE WITH THE FOOT DESIGN STANDARDS, LATEST EDITION.
- THE LOCATIONS OF EXISTING UTILITIES SUCH AS WATER MAINS, SEWER MAINS, GAS LINES, ETC., AS SHOWN ON THE PLANS, WITH THE EXCEPTION OF THE LOCATIONS OF EXISTING UTILITIES AT ALL POINTS OF CONNECTION TO AND AT ALL AREAS OF CONFLICT WITH UTILITY PROVIDER MAINS, WHICH HAVE BEEN FIELD VERIFIED, HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR; HOWEVER, THE ENGINEER AND OWNER DO NOT ASSUME RESPONSIBILITY FOR THE SIZES AND LOCATIONS SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF THE SIZE AND LOCATION OF ALL EXISTING UTILITIES SHOWN AND NOT SHOWN ON THESE PLANS.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR(S) TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL CONDITIONS CONTAINED THEREIN. PERMITS INCLUDED (BUT NOT NECESSARILY LIMITED TO) ARE:
 - ACOE NATIONWIDE OR INDIVIDUAL DREDGE AND FILL
 - FDEP WATER DISTRIBUTION
 - FDEP SANITARY SEWER COLLECTION AND TRANSMISSION
 - FDEP REUSE
 - FDEP DREDGE AND FILL
 - FDEP NPDES GENERIC PERMIT FOR STORMWATERDISCHARGE FROM LARGE AND MEDIUM CONSTRUCTION ACTIVITIES
 - FOOT DRIVEWAY CONNECTION
 - FOOT UTILITY
 - FOOT STORMWATER DISCHARGE CONNECTION
 - FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION PERMIT FOR IMPACTS TO PROTECTED SPECIES
 - LOCAL RIGHT OF WAY USE
 - UNDERGROUND UTILITIES
 - WATER MANAGEMENT DISTRICT CONSUMPTIVE USE FOR CONSTRUCTION DETERAING (CUP)
 - WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT (ERP)
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SETBACKS AND EASEMENTS BEFORE BEGINNING CONSTRUCTION.
- BENCHMARKS AND OTHER REFERENCE POINTS SHALL BE CAREFULLY MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. IF DISTURBED OR DESTROYED, THESE POINTS SHALL BE REPLACED BY A LICENSED FLORIDA PROFESSIONAL LAND SURVEYOR (P.L.S.) AT CONTRACTOR'S EXPENSE.
- OFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREON, WHETHER ABOVE, ON, OR BELOW THE SURFACE OF THE GROUND, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND OWNER. CONTRACTOR SHALL CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS TO THE ENGINEER AND OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING STRUCTURES, ETC., UNLESS OTHERWISE NOTED. ALL SOIL STRIPPINGS AND ANY UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE OWNER.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES AND UTILITIES NOTED TO REMAIN FROM DAMAGE OR DISPLACEMENT DURING CONSTRUCTION. IN THE EVENT OBSTRUCTIONS ARE ENCOUNTERED, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER AND THE UTILITY COMPANY. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR DAMAGE OR CORRECT DISPLACEMENT.
- CONTRACTOR SHALL BE EXTREMELY CAUTIOUS WHEN WORKING NEAR TREES WHICH ARE TO BE SAVED, WHETHER SHOWN IN THE PLANS OR DESIGNATED IN THE FIELD. CONTRACTOR SHALL BECOME FAMILIAR WITH AND CONFORM WITH ALL TREE PROTECTION/PRESERVATION PROVISIONS OF THE PRELIMINARY SUBDIVISION PLAN / DEVELOPMENT PLAN AND LOCAL GOVERNMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT AND MITIGATION COSTS FOR ANY TREES REMOVED THAT WERE DESIGNATED TO BE PRESERVED.
- WHEN DETAILS ARE PROVIDED, CONTRACTOR SHALL CONSTRUCT JOB PER SPECIFIC DETAILS, AND NOT BY SCALING FROM THESE PLANS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY REQUIRED TRAFFIC CONTROL PLANS. ALL WORK SHALL BE EXECUTED UNDER THE ESTABLISHED PLAN AND FOOT, AND LOCAL AGENCY APPROVED PROCEDURES.
- THE CONTRACTOR SHALL RESTORE OFF SITE CONSTRUCTION AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- AS-BUILT DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE PROJECT ENGINEER UPON PROJECT COMPLETION.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL AGENCY REQUIREMENTS FOR INSPECTION AND TESTING.
- ALL NEW UTILITIES AND UPGRADED UTILITIES PROVIDED TO OR ON THE SITE MUST BE INSTALLED UNDERGROUND.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF ANY TRAFFIC SIGNAL EQUIPMENT INCLUDING BUT NOT LIMITED TO FIBER LOOP SENSORS PULL BOXES, CONDUIT TRAFFIC SIGNALS, AND CABINETS. ANY ITEMS DAMAGED BY THE CONTRACTOR WILL BE RESTORED TO THEIR ORIGINAL CONDITIONS UNLESS OTHERWISE AGREED UPON BY THE COUNTY TRAFFIC ENGINEER.
- ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH UTILITY PROVIDER'S STANDARDS AND CONSTRUCTION SPECIFICATIONS, LATEST EDITION.
- CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES OF PROPOSED START OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, WATER, RECLAIMED WATER, SEWER, POWER, TELEPHONE, GAS AND CABLE TV COMPANIES.
- PRIOR TO COMMENCEMENT, CONTRACTOR SHALL PROVIDE ENGINEER WITH CONSTRUCTION SCHEDULE FOR VARIOUS SITE WORK ELEMENTS SO THAT PERIODIC SITE VISITS MAY BE COORDINATED TO ENSURE TIMELY CERTIFICATION OF COMPLETION TO AGENCIES AND AVOID DELAYS IN ISSUANCE OF CERTIFICATES OF OCCUPANCY/COMPLETION.
- ALL RECOMMENDATIONS AND REQUIREMENTS OF INSPECTION PERSONNEL OTHER THAN OWNER/OWNER'S REPRESENTATIVE SHALL BE REPORTED TO ENGINEER/OWNER/OWNER'S REPRESENTATIVE PRIOR TO IMPLEMENTATION. COMPENSATION WILL NOT BE ALLOWED FOR WORK THAT IS NOT AUTHORIZED BY ENGINEER/OWNER/OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL CONFIRM COMPATIBILITY OF PIPE SLOPES AND INVERTS DURING SHOP DRAWING AND MATERIALS ORDERING PHASE OF PROJECT AND ADVISE ENGINEER OF ANY DISCREPANCIES.
- NO EXISTING MATERIAL SHALL BE USED IN NEW CONSTRUCTION UNLESS APPROVED DURING THE SHOP DRAWING APPROVAL PROCESS BY ENGINEER/OWNER/OWNER'S REPRESENTATIVE IN WRITING.
- CONTRACTOR SHALL STAKE ALL IMPROVEMENTS USING THE PLAT(S), ROAD CENTERLINE GEOMETRY, AND BUILDING COORDINATES PROVIDED IN THESE PLANS. CONTRACTOR SHALL CONFIRM WITH THE ENGINEER THAT THE PLAT IS CURRENT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL CONFIRM THE BUILDING DIMENSIONS SHOWN HEREIN WITH THOSE IN THE FINAL ARCHITECTURAL DRAWINGS PRIOR TO STAKEOUT. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLETELY STAKE AND CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL AND VERTICAL, INCLUDING MINIMUM BUILDING SETBACKS PRIOR TO THE INSTALLATION OF ANY IMPROVEMENT.

PAVING AND DRAINAGE

- THE CONTRACTOR SHALL CONSTRUCT PAVEMENT IN ACCORDANCE WITH TYPICAL PAVEMENT SECTIONS AND LOCAL AGENCY SPECIFICATIONS. THE FINISHED PAVEMENT GRADES SHALL CONFORM TO THOSE SPECIFIED ON THE GRADING PLAN.
- FLORIDA LAW (F.S. 553.36(1)) PROTECTION OF UNDERGROUND PIPELINES MANDATES THAT NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION IN ANY PUBLIC OR PRIVATE STREET, ALLEY, RIGHT-OF-WAY DEDICATED TO THE PUBLIC USE, OR GAS UTILITY EASEMENT WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF THE PROPOSED EXCAVATION. THIS INCLUDES ANY OPERATION UTILIZING HAND TOOLS OR POWER TOOLS WHICH MOVES OR REMOVES ANY STRUCTURE, EARTH, ROCK, OR OTHER MASS OF MATERIAL BY SUCH METHODS AS DIGGING, BACKFILLING, DEMOLITION, GRADING, DITCHING, DRILLING, BORING AND CABLE PLOWING. THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 48 HOURS AND A MAXIMUM OF 5 DAYS PRIOR TO EXCAVATING (EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS).
- EXCAVATION, PAVING, AND STORM SEWER WORK SHALL BE DONE IN ACCORDANCE WITH FOOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AND LOCAL AGENCY SPECIFICATIONS.
- UNLESS OTHERWISE NOTED, GRADE TO MEET EXISTING ELEVATIONS AT PROPERTY LINES. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE OF THE SITE TO THE RETENTION PONDS AS SHOWN BY PROPOSED GRADES AND FLOW ARROWS.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE AND PROPER SOIL EROSION CONTROL MEASURES FOR PROTECTION OF ALL DRAINAGE AND SEWER STRUCTURES AND AT ALL ADJACENT LANDS AND ROADS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL GEOTECHNICAL REPORTS PREPARED FOR THE SITE. GEOTECHNICAL RECOMMENDATIONS ARE NOT THE RESPONSIBILITY OF ENGINEER. ENGINEER HAS RELIED ON THE GEOTECHNICAL REPORT(S) IN PREPARATION OF THE DRAWINGS. ANY CONFLICT BETWEEN INFORMATION WITHIN THE REPORT AND THESE DRAWINGS SHALL BE REPORTED TO ENGINEER/OWNER /OWNER'S REPRESENTATIVE. ENGINEER ASSUMES NO RESPONSIBILITY FOR THE CORRECTNESS, COMPLETENESS, OR ACCURACY OF GEOTECHNICAL INFORMATION.
- THE SITE SHALL BE CLEARED OF ALL TREES EXCEPT THOSE WHICH ARE DESIGNATED TO BE SAVED OR RELOCATED. BEFORE CONSTRUCTION, THE CONTRACTOR SHALL MEET AT THE SITE WITH THE OWNER AT THIS TIME. ANY TREES TO BE SAVED SHALL BE POINTED OUT AND TAGGED. THESE TREES SHALL BE PROTECTED FROM DAMAGE.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE SUPERVISING ENGINEER IF A PAVEMENT OR FOUNDATION STAKE IS DISTURBED.
- THE CONTRACTOR SHALL INSTALL DOW CURBS AND HANDICAP RAMPS AT ALL INTERSECTIONS OF THE SIDEWALK WITH THE PROPOSED PAVEMENT, UNLESS OTHERWISE SPECIFIED.
- FOR HORIZONTAL AND VERTICAL CLEARANCES BETWEEN STORM PIPES AND WATER MAINS/SERVICES, SEE WATER NOTES ON THIS SHEET AND FDEP SEPARATION TABLE ON UTILITY PLAN.
- ALL PUBLIC STORM PIPE MATERIALS SHALL BE REINFORCED CONCRETE PIPE (RCP) ASTM C-70 CLASS II, OR HIGH PERFORMANCE POLYPROPYLENE (HP) IF PERMITTED, UNLESS OTHERWISE SPECIFIED. LIFTING HOLES ARE PROHIBITED.
- ALL PRIVATE STORM PIPE MATERIALS SHALL BE AS FOLLOWS:
 - DIAMETERS LESS THAN OR EQUAL TO 12-INCH SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE FROM AN APPROVED SUPPLIER LIST.
 - DIAMETERS GREATER THAN OR EQUAL TO 15-INCH SHALL BE HIGH PERFORMANCE POLYPROPYLENE (HP) PIPE FROM AN FOOT APPROVED SUPPLIES LIST.
- MINIMUM COVER OVER ALL PIPE SHALL BE 36-INCHES FROM TOP OF PIPE TO FINISHED GRADE, UNLESS OTHERWISE NOTED.
- ALL STORM SYSTEM MANHOLE AND INLET STRUCTURES SHALL BE PRECAST CONCRETE.
- THE CONTRACTOR SHALL USE CONCRETE WITH A MINIMUM 28 DAY STRENGTH OF 3,000 P.S.I..
- ALL SIDEWALK WIDTHS SHALL BE AS NOTED ON THE SITE PLAN AND SHALL HAVE 1-INCH DEMI CONCRETION JOINTS EVERY 5-FEET AND AN EXPANSION JOINT EVERY 20-FEET (MINIMUM). MAXIMUM SIDEWALK CROSS SLOPES SHALL BE 2.00% AND MAXIMUM SIDEWALK RUNNING SLOPES SHALL BE 5.00% EXCEPT AT RAMP LOCATIONS. MAXIMUM RAMP SLOPES SHALL BE 8.33%.
- PROVIDE FOOT TIE IN SILT FENCE ALONG THE PROPERTY LINES AND PHASE LINES AS WELL AS ANY CONSTRUCTION WITHIN THE OTHER PHASES THAT IS DEEMED NECESSARY.
- ALL TEST REPORTS GENERATED BY A TESTING FIRM ARE TO HAVE COPIES SENT DIRECTLY TO THE LOCAL AGENCY AS SOON AS THEY ARE GENERATED. CLEARANCE FROM THE LOCAL AGENCY SHALL BE RECEIVED PRIOR TO PAVING.
- THE BASE COURSE SHALL NOT BE CONSTRUCTED UNTIL AFTER SUBGRADE CONSTRUCTION HAS BEEN COMPLETED AND REQUIRED SUBGRADE TEST RESULTS HAVE BEEN SUBMITTED TO AND APPROVED BY THE LOCAL AGENCY'S ENGINEER.
- THE FINISHED BASE COURSE SHALL BE PRIMED WITHOUT DELAY, PROTECTED FROM HEAVY TRAFFIC, AND CONTINUOUSLY MAINTAINED FREE OF DAMAGE UNTIL WEARING SURFACE IS APPLIED. ALL BAD AREAS SHALL BE CUT OUT AND REPLACED PRIOR TO APPLYING WEARING SURFACE.
- ASSUMING ACCEPTABLE DURING, THE WEARING SURFACE SHALL BE APPLIED NO SOONER THAN SEVEN (7) DAYS AND NO LATER THAN THIRTY (30) DAYS AFTER BASE COMPLETION.
- ALL CONCRETE PIPE JOINTS SHALL BE WRAPPED IN FILTER FABRIC.
- ROADWAY MARKING, STRIPING, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), INCLUDING SUBSEQUENT REVISIONS AND ADDENDUMS, AS PUBLISHED BY THE USDOT FEDERAL HIGHWAY ADMINISTRATION AS WELL AS FOOT AND LOCAL AGENCY STANDARDS AND SPECIFICATIONS.
- REGULATORY SIGNS AND MARKINGS SHALL BE IN PLACE PRIOR TO FINAL INSPECTION OF PAVING AND DRAINAGE IMPROVEMENTS.
- PAVEMENT RETURN RADI SHALL BE MEASURED TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- POND SLOPES AND BERMS SHALL BE SODDED TO TWO (2) FEET BELOW THE NORMAL WATER LINE (N.W.L.). IN THE CASE OF DRY BOTTOM PONDS, THE BOTTOM WILL BE SEEDED AND MULCHED UNLESS OTHERWISE SPECIFIED.
- ALL PRECAST DRAINAGE STRUCTURES TO HAVE STEEL FRAME, ALL STRUCTURES IN PAVED AREAS TO HAVE STEEL RECTILINEAR GRATES WITH H-20 LOADING.
- CONTRACTOR SHALL NOT COMPACT, STABILIZE, OR CONSTRUCT BASE COURSE WITHIN LANDSCAPE ISLANDS, TRACTS OR MEDANS, WHERE SUCH TREATMENT DOES OCCUR, IT SHALL BE REMOVED AND REPLACED WITH SUITABLE PLANTING SOILS ACCEPTABLE TO LANDSCAPE ARCHITECT.
- YARD DRAINS SHALL BE HYDRAULIC INLINE DRAINS AND DRAIN BASINS, OR APPROVED EQUAL, WITH CAST IRON GRATES AND WATER/TIGHT ADAPTER CONNECTIONS. DOME D GRATES SHALL BE PROVIDED IN NON-SODDED AREAS.
- ALL FIRE HYDRANT LOCATIONS SHALL BE MARKED BY PLACING BLUE REFLECTIVE PAVEMENT MARKINGS IN THE CENTER OF THE NEAREST TRAVEL LANE.
- MINIMUM LONGITUDINAL SLOPE OF CURB SHALL BE 0.30% UNLESS SPECIFIED OTHERWISE.
- FINISHED FLOOR ELEVATION IS TYPICALLY 8" INCHES ABOVE DESIGN FINISHED GRADE AT OUTSIDE PERIMETER OF BUILDINGS EXCEPT AT ENTRIES AND WHERE OTHERWISE SHOWN.
- CONTRACTOR SHALL REMOVE ALL MUCK DEPOSITS IN CONSTRUCTION AREAS AND AREAS TO BE FILLED, SEE GEOTECHNICAL REPORT.
- DRAINAGE MANHOLES AND INLETS (NOT INCLUDING CONTROL STRUCTURES) IN THE PLANS ARE IDENTIFY BY TOP TYPE ONLY. CONTRACTOR SHALL PROVIDE STANDARD DITCH BOTTOM INLET TOPS AND TYPE "I" OR "P" STRUCTURE BOTTOMS, SIZED AS REQUIRED TO ACCOMMODATE PIPE SIZES AND ORIENTATIONS SHOWN. SHOP DRAWINGS SHALL BE SUBMITTED WHICH CLEARLY REPRESENT SUCH DATA.
- CONTRACTOR SHALL STABILIZE AND PROTECT ALL END WALL, MITERED END SECTION, FLARED END SECTION, ETC. STRUCTURES THROUGHOUT THE PROJECT UNTIL THE BANK SLOPES OF THE RECEIVING WATER BODY ARE STABILIZED AND ACCEPTED BY OWNER.

SANITARY SEWER

- ROOF DRAINS, FOUNDATION DRAINS OR OTHER STORM WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
- GRAVITY SEWER PIPE SHALL BE SDR26 PVC AND SHALL MEET ASTM D3034, UNLESS OTHERWISE SPECIFIED.
- ALL SANITARY SEWER LATERALS SHALL BE 6-INCH DIAMETER PVC AND SHALL END WITH A CLEAN OUT.
- ALL SANITARY SEWER PIPE SHALL BE COLORED GREEN.
- ALL SANITARY SEWER MANHOLES SHALL HAVE A MINIMUM DIAMETER OF 48-INCHES AND A MINIMUM ACCESS DIAMETER OF 22-INCHES.
- MINIMUM COVER OVER ALL PIPE SHALL BE 36-INCHES FROM TOP OF PIPE TO FINISHED GRADE, UNLESS OTHERWISE NOTED.
- FOR HORIZONTAL AND VERTICAL CLEARANCES BETWEEN SANITARY SEWER MAINS/ LATERALS AND WATER MAINS/SERVICES, SEE WATER NOTES ON THIS SHEET AND FDEP SEPARATION TABLE ON UTILITY PLAN.
- WHERE SOIL REPORT INDICATES THE POSSIBILITY OF UNSUITABLE MATERIAL IN THE VICINITY OF SANITARY LINES, THE CONTRACTOR SHALL DETERMINE THE NATURE AND EXTENT OF THIS UNSUITABLE MATERIAL, PREPARE TRENCH, AND INSTALL THE SEWER LINE IN ACCORDANCE WITH ASTM D-2321. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF THIS UNSUITABLE MATERIAL.
- THE CONTRACTOR SHALL BE REQUIRED TO PERFORM INFILTRATION OR EXFILTRATION TEST, WHICHEVER IS APPLICABLE. INFILTRATION SHALL NOT EXCEED 50 GALLONS PER DAY PER INCH OF DIAMETER PER MILE OF LENGTH, OR THE COMPUTED EQUIVALENT FOR SHORTER LENGTHS OF TIME. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS, CODES, AND ORDINANCES OF THE WASTEWATER TRANSMISSION AUTHORITY INCLUDING ADVANCED NOTIFICATION PRIOR TO CONSTRUCTION AND TESTING.
- MADDEN, MOORHEAD & STOKES, INC. SHALL BE NOTIFIED A MINIMUM OF FIVE (5) FULL WORKING DAYS PRIOR TO CONSTRUCTION AND TESTING OF THE SANITARY SEWER. PHONE (407)-629-8330.
- THE CONTRACTOR SHALL SUPPLY COMPLETE "AS BUILT" INFORMATION RELATIVE TO INVERTS, RM ELEVATIONS, LOCATION OF MANHOLES AND LENGTHS OF PIPE. LATERALS SHALL BE LOCATED FROM THE CENTERLINE OF THE NEAREST DOWNSTREAM MANHOLE. THE INFORMATION SHALL BE SUBMITTED ON LEGIBLY MARKED-UP PRINTS TO THE ENGINEER WITHIN TWO (2) WEEKS OF COMPLETION OF SEWER CONSTRUCTION.
- CONTRACTOR SHALL RECEIVE SEWER CERTIFICATION PRIOR TO PLACEMENT OF BASE COURSE.
- MINIMUM SLOPE ON ALL SANITARY SEWER GRAVITY MAINS SHALL BE IN ACCORDANCE WITH UTILITY PROVIDER'S STANDARDS AND CONSTRUCTION SPECIFICATIONS, LATEST EDITION.
- ALL SANITARY SERVICE LOCATIONS SHALL BE MARKED BY CUTTING AN "S" INTO THE CURB.
- MARK RESIDENTIAL LATERALS WITH 6-FOOT HIGH PIECE OF 2"x4" PLANK PAINTED GREEN WITH LOT NUMBER CLEARLY MARKED AND AN "S" IMPRESSED IN THE CURB.
- AIR RELEASE VALVES SHALL BE REQUIRED AT ALL HIGH POINTS ALONG THE FORCE MAIN.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT AN EVEN TRANSITION IS MAINTAINED WHERE ASPHALT PAVING ABUTS MANHOLE/VALVE COVERS IN PAVED AREAS. AT EACH OF THESE LOCATIONS THE CONTRACTOR SHALL FOUR AN 8-INCH THICK CONCRETE APRON AROUND THE MANHOLE/VALVE COVER A MINIMUM OF 4"x4" AT MANHOLES, AND 2"x2" AT VALVE COVERS LEVEL WITH THE FINAL LIFT OF ASPHALT.
- PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN MANHOLE CENTERLINE.
- INVERTS OF SANITARY SEWER LATERALS AT THEIR CONNECTION TO SANITARY MANHOLES SHALL BE NO MORE THAN ONE (1) FOOT ABOVE THE MANHOLE INVERT.
- PRIOR TO PAVING, CONTRACTOR SHALL VERIFY THE AS-BUILT SANITARY SEWER PIPE SLOPES. MINIMUM SLOPES SHALL BE IN ACCORDANCE WITH THE GREATER OF FDEP OR THE UTILITY PROVIDER'S MINIMUM CRITERIA. ANY LINE NOT MEETING MINIMUM SLOPES SHALL BE RELAYED BY CONTRACTOR TO MEET THE MINIMUM SLOPE REQUIREMENT AT NO ADDITIONAL COST.
- MANHOLE LIFT HOLES AND GRADE ADJUSTMENT RINGS SHALL BE SEALED WITH NON-SHRINKING MORTAR OR OTHER APPROPRIATE MATERIAL.
- INLET AND OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A GASKETED FLEXIBLE WATER-TIGHT CONNECTION OR ANOTHER WATER-TIGHT CONNECTION ARRANGEMENT THAT ALLOWS DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE WALL.
- WATER-TIGHT MANHOLE COVERS SHALL BE USED WHEREVER THE MANHOLE TOPS MAY BE FLOODED BY STREET RUNOFF OF HIGH WATER.

WATER

- ALL MATERIALS AND CONSTRUCTION REQUIREMENTS FOR THE FIRE SERVICE WATER LINES, CHECK VALVES, BACKFLOW PREVENTERS, GATE VALVES, ETC., SHALL BE IN ACCORDANCE WITH LOCAL AGENCY STANDARD DETAILS AND CONSTRUCTION SPECIFICATIONS.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH AWWA STANDARDS AND IN ACCORDANCE WITH LOCAL AGENCY STANDARDS.
- ALL PUBLIC WATER SYSTEM COMPONENTS, EXCLUDING FIRE HYDRANTS, THAT WILL BE INSTALLED UNDER THIS PROJECT AND THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AND WILL BE MARKED WITH THE NSF SEAL OF APPROVAL.
- CONTRACTOR SHALL VERIFY SIZE AND TYPE OF EXISTING MAIN PRIOR TO ORDERING TAPPING MATERIALS FOR TIE-INS.
- SITE CONTRACTOR SHALL COORDINATE AND VERIFY ALL UTILITY SERVICES WITH FINAL ARCHITECTURAL DRAWINGS AND BUILDING CONTRACTOR.
- SITE UTILITY WORK SHALL TERMINATE 5-FEET FROM BUILDINGS UNLESS OTHERWISE STATED.
- MINIMUM COVER OVER ALL PIPE SHALL BE 36-INCHES FROM TOP OF PIPE TO FINISHED GRADE, UNLESS OTHERWISE NOTED.
- THE WATER MAIN SHALL BE LOCATED ABOVE THE STORMWATER AND SANITARY MAINS AT LOCATIONS, WHERE POSSIBLE.
- VERTICAL SEPARATION BETWEEN UNDERGROUND POTABLE WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES:
- NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY-OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PRESSURE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS:
- NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART II OF CHAPTER 62-610, F.A.C.
- NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART II OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE OTHER MAIN.
- NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PORTIONS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 361.005(2), F.S., AND RULE 6A-6.002, F.A.C.
- AT THE UTILITY CROSSINGS DESCRIBED IN NOTES 8 AND 9 ABOVE, THE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN IS AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM THE TOP OF THE OTHER PIPELINE.
- STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART II OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY-OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART II OF CHAPTER 62-610, F.A.C.
- WATER LINES 2-INCHES, OR LESS, IN DIAMETER SHALL BE POLYETHYLENE TUBING.
- WATER LINES 4-INCH TO 12-INCH IN DIAMETER SHALL BE NSF LOGO PVC PIPE CONFORMING TO AWWA C-900 AND BE DR-18.
- ALL FITTINGS SHALL BE DUCTILE IRON (D.I.) OR GRAY IRON MECHANICAL JOINTS WITH A MINIMUM PRESSURE RATING OF 200 P.S.I. CONFORMING TO ANSI A-21.10 / AWWA C-110, OR D.I. COMPACT FITTINGS FOR DIAMETERS 4-INCH TO 12-INCH CONFORMING TO ANSI A-21.53 / AWWA C-153.
- FROM THE POINT OF SERVICE (P.O.S.) FORWARD AS DESIGNATED BY F.S. 633, FIRE SUPPLY PIPE SHALL BE DR-14 AND TESTED AT 200 PSI FOR TWO HOURS.
- GATE VALVES SHALL CONFORM TO AWWA C-509-87, WITH WRENCH TAP EXTENSION STEMS AND OTHER APPURTENANCES AS REQUIRED AND SHALL BE CAST IRON BODY, FULL BRONZE MOUNTED, DOUBLE DISK, PARALLEL SEAT, NON-RISING STEM VALVES WITH O-RING SEALS AND CONDUCTIONS AS CALLED FOR ON THE PLANS. TEST COUPLERS, PLUGS, BENDS, VALVES, ETC., SHALL BE PROVIDED WITH GRP RING RESTRAINTS.
- ALL NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED TO GAUSE COPPER WIRE INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. IN ADDITION, ALL PVC WATER MAINS SHALL BE A SOLID BLUE COLOR. ALL LETTERING SHALL APPEAR LEGIBLY ON PIPE AND SHALL RUN THE ENTIRE LENGTH OF THE PIPE. LETTERING SHALL READ AS IS ACCEPTABLE FOR THE FOLLOWING: TEST COUPLERS, PLUGS, BENDS, VALVES, ETC., SHALL BE PROVIDED WITH GRP RING RESTRAINTS.
- SERVICE MAINS FOR FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 24, LATEST EDITION.
- NEW FIRE HYDRANTS SHALL BE INSTALLED SO THAT 5-1/4" INCH PORT IS FACING THE ROADWAY BY WHICH IT IS ACCESSED. HYDRANT SHALL BE POSITIONED NOT MORE THAN 5 FEET AWAY FROM THE CURB OR BERM OF THE ROADWAY.
- HYDROSTATIC TESTING AND THE DISINFECTION OF THE WATER DISTRIBUTION SYSTEM SHALL BE DONE IN ACCORDANCE WITH AWWA STANDARDS. HYDROSTATIC TESTING TO BE DONE IN ACCORDANCE WITH AWWA C-600 FOR DUCTILE IRON PIPE AND C-605 FOR PVC PIPE. CORROSION AND BACTERIOLOGICAL EVALUATION TO BE DONE IN ACCORDANCE WITH AWWA C-651 AND RULE 62-555.340 F.A.C.
- THE CONTRACTOR SHALL SUPPLY COMPLETE AS-BUILT INFORMATION RELATIVE TO LOCATION AND ELEVATION OF ALL WATER LINES AND SERVICES. THE INFORMATION SHALL BE SUBMITTED ON LEGIBLY MARKED-UP PRINTS TO THE ENGINEER WITHIN TWO (2) WEEKS OF THE COMPLETION OF THE WATER LINE CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE ALL UTILITIES SYSTEMS TEST SCHEDULING TO ALLOW ENGINEER'S ATTENDANCE PROVIDING MINIMUM NOTICE OF FIVE (5) WORKING DAYS. CONTRACTOR'S FAILURE TO PROPERLY NOTIFY ENGINEER MAY RESULT IN RETESTING AT ENGINEER'S OPTION AND AT CONTRACTOR'S EXPENSE.
- NEW HYDRANTS SHALL BE TESTED AND IN PROPER WORKING ORDER WITH DUTILITY PROVIDER/MENTION SUPPLIED TO THE FIRE MARSHAL PRIOR TO ANY COMBUSTIBLE CONSTRUCTION. (I.E. FIRE FLOW TEST SHALL BE PERFORMED).
- DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED THE LESSOR OF THOSE RECOMMENDED BY THE PIPE MANUFACTURER OR UTILITY PROVIDER'S CONSTRUCTION SPECIFICATIONS.
- ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED IN ACCORDANCE WITH SUB PARAGRAPH 62-555.332(2)(b)(3), F.A.C. USING BLUE AS A PREDOMINANT COLOR. ALL DUCTILE IRON WATER MAINS SHALL BE MARKED IN A CONTINUOUS STRIPE LOCATED WITHIN THE TOP 90 DEGREES OF THE PIPE. SLD STRIPE SHALL BE A MINIMUM 2 INCHES IN WIDTH AND SHALL BE BLUE IN COLOR. BACKFILL SHALL NOT BE PLACED FOR 30 MINUTES FOLLOWING PAINT APPLICATION FOR PIPE WITH AN INTERNAL DIAMETER OF 24" OR GREATER. TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES A LONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.
- MARK RESIDENTIAL SERVICES WITH 6-FOOT HIGH PIECE OF 2"x4" PLANK PAINTED BLUE WITH LOT NUMBER CLEARLY MARKED AND A "W" IMPRESSED IN THE CURB. IT IS THE INVENT THAT EVERY LOT IS PROVIDED WITH A WATER SERVICE; THEREFORE IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A WATER SERVICE TO EACH LOT.
- PIPE MATERIALS:
 - PVC - ALL PIPE, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT SHALL CONFORM TO APPLICABLE AWWA STANDARDS AND SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900, LATEST EDITION. PVC SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900. THE PVC SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 P.S.I. AND SHALL HAVE A DIMENSION RATIO (DR) OF 18. PIPE SHALL BE THE SAME O.D. AS DUCTILE IRON PIPE. PVC JOINT - SHALL BE IN ACCORDANCE WITH ASTM D3139.
 - DUCTILE IRON JOINT - SHALL CONFORM TO ANSI/AWWA C155/A21.51. A MINIMUM OF CLASS 50 PIPE SHALL BE SUPPLIED.
 - DUCTILE IRON JOINT - SHALL BE IN ACCORDANCE WITH ANSI A21.11 AND AWWA C111. SERVICES - SHALL BE IN ACCORDANCE WITH AWWA C901/C900 STANDARDS FOR POLYETHYLENE TUBING, CLASS 160.
- WATER MAIN CONNECTION SHALL BE MADE UNDER THE SUPERVISION OF THE UTILITY PROVIDER. ALL VALVES SHALL BE OPERATED BY UTILITY PROVIDER PERSONNEL. ONLY
- ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL CONTAIN NO MORE THAN 8 OZ LEAD, AND ANY SOLID GEL OR FLUX USED IN THIS PROJECT SHALL CONTAIN NO MORE THAN 0.2% LEAD.
- NEW OR ALTERED FIRE HYDRANT LEADS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 6-INCH AND SHALL INCLUDE AN AUXILIARY VALVE.
- A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT. BACKFILL MATERIAL WILL BE TAMPED IN LAYERS AROUND UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT AND TO A SUFFICIENT HEIGHT ABOVE THE PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE. UNSUITABLE SIZED STONES (AS DESCRIBED IN APPLICABLE AWWA STANDARDS OR MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES) FOUND IN TRENCHES WILL BE REMOVED FOR A DEPTH OF A LEAST SIX INCHES BELOW THE BOTTOM OF UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT.
- CONTRACTOR SHALL NOT ACTIVATE WATER SERVICE UNTIL FDEP HAS CLEARED THE SYSTEM FOR USE AND THE CLEARANCE LETTER HAS BEEN RECEIVED BY THE OWNER.
- ENGINEER RESERVES THE RIGHT TO WITHHOLD AUTHORIZATION OF PAYMENT FOR ANY PORTION OF THE UTILITIES PIPE WORK WHICH HAS NOT BEEN TESTED, OBSERVED BY ENGINEER, AND REPORTED TO CONFORM TO PROJECT SPECIFICATIONS.

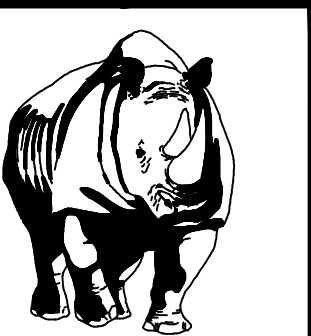
RECLAIMED WATER

- POLYVINYL CHLORIDE PLASTIC PIPE (PVDC) 4-INCH THROUGH 12-INCH SHALL BE MANUFACTURED IN ACCORDANCE WITH ANS/AWWA C900 (LATEST EDITION) AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI AND HAVE A DR (DIMENSION RATIO) OF 18. PIPE SHALL BE PURPLE AND LABELED "RECLAIMED WATER" OR "NON POTABLE WATER" PROMINENTLY ON EACH PIPE JOINT. JOINTS SHALL BE OF THE PUSH-ON TYPE AND COUPLINGS SHALL CONFORM TO ASTM D3139 DR18 PIPE.
- DUCTILE IRON PIPE (DIP) SHALL BE STANDARD PRESSURE CLASS 350 IN SIZES 4-INCH THROUGH 12-INCH AND CONFORM TO ANS/AWWA C155/A21.50 (LATEST EDITION). ALL DUCTILE IRON PIPE SHALL HAVE CEMENT MORTAR LINING AS SPECIFIED IN ANS/AWWA C104/A21.4 (LATEST EDITION). PIPE JOINTS SHALL BE OF THE PUSH-ON RUBBER GASKET TYPE CONFORMING TO ANS/AWWA C111/A21.11 (LATEST EDITION).
- PIPE SIZES GREATER THAN 12" IN BOTH PVC AND DUCTILE IRON SHALL BE SEPARATELY SPECIFIED ON THE PLANS, WITH THICKNESS CLASSES TO BE SHOWN BASED ON WORKING PRESSURES, PIPE DEPTH AND TRENCH CONDITIONS.
- COMPACT FITTINGS FOR DUCTILE IRON PIPE AND PVC C900 PIPE SHALL BE DUCTILE IRON AND SHALL CONFORM TO ANS/AWWA C153/A21.53 (LATEST EDITION) AND SHALL BE CEMENT LINED IN CONFORMANCE WITH ANS/AWWA C104/A21.4 (LATEST EDITION). 350 PSI MINIMUM PRESSURE RATING.
- GATE VALVES SHALL BE RESILIENT SEAT AND SHALL CONFORM TO ANS/AWWA C509 (LATEST EDITION) WITH 2-INCH SQUARE WRENCH NUT, EXTENSION STEMS AND OTHER APPURTENANCES AS REQUIRED. MANUFACTURER'S CERTIFICATION OF THE VALVE COMPLIANCE WITH AWWA C509 (LATEST EDITION) AND TESTS LISTED THEREIN WILL BE REQUIRED. VALVES SHALL BE CLOW, MUELLER, KENNEDY, M&H, AMERICAN DARLING, OR APPROVED EQUAL.
- VALVE BOX PADS SHALL BE 18"x18"x4" THICK CONCRETE WITH FOUR (4) REINFORCING BARS. PAD IS TO BE SET AT FINISH GRADE.
- UNDERGROUND VALVE IDENTIFICATION (UVI) MARKERS SHALL BE PROVIDED AT EACH VALVE LOCATION. MARKERS SHALL BE 3-INCH DIAMETER AND 1/8-INCH THICK SOLID HARD BRASS WITH 1/4-INCH ROD ANCHOR WITH "TAMPER-PROOF" HOOK END. SURFACE SHALL BE ENGRAVED WITH 1/4-INCH TO 3/8-INCH CAPITAL LETTERS APPROXIMATELY .015-INCH DEEP -- HAND PUNCHED LETTERS NOT ACCEPTABLE. FOR MARKER TEXT, REFER TO UNDERGROUND VALVE MARKER DETAIL. SURFACE GROUND SHALL BE SMOOTHED AND EPOXY COATED TO PREVENT TARNISHING. MARKERS ARE TO BE WAGCO MARKERS, OR APPROVED EQUAL.
- BUTTERFLY VALVES SHALL MEET OR EXCEED THE DESIGN STRENGTH TESTING AND PERFORMANCE REQUIREMENTS OF AWWA C504 (LATEST EDITION), CLASS 150. VALVES SHALL BE DUCTILE IRON, RESILIENT SEAT, AND BE MANUFACTURED BY KENNEDY, MUELLER, M&H, AMERICAN DARLING, OR APPROVED EQUAL. BUTTERFLY VALVES TO BE 24-INCH SIZES GREATER THAN 12-INCH.
- AIR RELEASE VALVES SHALL BE PLACED AT HIGH POINTS OF THE TRANSMISSION MAIN TO PERMIT ESCAPE OF TRAPPED AIR. THE VALVE SIZE, LOCATION, AND METHOD OF INSTALLATION SHALL BE INDICATED ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER. AIR RELEASE VALVES SHALL BE AVAILABLE TO THE PUBLIC OR APPROVED EQUAL.
- VALVE BOXES ON BURIED RECLAIMED WATER SHALL BE ADJUSTABLE, CAST IRON CONSTRUCTION, WITH A MINIMUM INTERNAL DIAMETER OF 5-INCH WITH COVERS CAST WITH THE INSCRIPTION IN LEGIBLE LETTERING ON THE TOP: RECLAIMED WATER. BOXES SHALL BE SUITABLE FOR THE APPLICABLE SURFACE LOADING AND VALVE SIZE, AND SHALL BE MANUFACTURED BY MUELLER COMPANY, MODEL 10364, OR APPROVED EQUAL.
- PIPE INSTALLATION OF PVC RECLAIMED WATER MAIN SHALL BE IN CONFORMANCE WITH ASTM D2274 (LATEST EDITION). INSTALLATION OF DUCTILE IRON PIPE RECLAIMED WATER MAIN SHALL BE IN CONFORMANCE WITH AWWA C600 (LATEST EDITION).
- RECLAIMED WATER SYSTEM PIPES SHALL BE INSTALLED SO AS TO GIVE A MINIMUM HORIZONTAL SEPARATION OF 5 FEET (CENTER OF PIPE TO CENTER OF PIPE) FROM POTABLE WATER LINES AND MINIMUM 3-FOOT VERTICAL SEPARATION FROM WALL TO OUTSIDE WALL AS WELL AS 18-INCH VERTICAL SEPARATION. IN THE CASE OF A CONFLICT WHERE THESE SEPARATIONS CANNOT BE MAINTAINED THE REUSE MAIN SHALL BE UPGRADED TO DIP.
- COMPACTED BACKFILL SHALL BE TO 98 % MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 UNDER ALL PAVEMENTS WITH 12-INCH MAXIMUM LIFT THICKNESS. OTHER COMPACT OF BACKFILL SHALL BE TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 WITH 12-INCH MAXIMUM LIFT THICKNESS. SEE PIPE TRENCHING DETAILS.
- MINIMUM COVER OVER ALL PIPE SHALL BE 36-INCHES FROM TOP OF PIPE TO FINISHED GRADE, UNLESS OTHERWISE NOTED.
- INDICATOR TAPE SHALL BE BURIED IN THE RECLAIMED WATER MAIN TRENCH 18-INCH DIRECTLY ABOVE THE MAIN. A CONTINUOUS COPPER DETECTOR WIRE SHALL BE ATTACHED AS SHOWN ON THE PIPE DETECTOR WIRE MARKER DETAIL. INDICATOR TAPE SHALL CALL OUT THAT A RECLAIMED OR NON POTABLE SYSTEM IS BELOW. PIPE SHALL BE COLOR CODED PURPLE IN ADDITION TO MARKINGS. SIGNS IN ENGLISH, SPANISH, AND INTERNATIONAL SYMBOLS SHALL BE INSTALLED NOTING THAT NO DRINKING IS ALLOWED. CONTINUITY CHECK WILL BE PERFORMED AND MUST BE ACCEPTABLE.
- ALLOWABLE LEAKAGE FOR PVC PRESSURE MAINS WILL BE IN ACCORDANCE WITH AWWA M23.
- THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PUMPING EQUIPMENT, WATER, WATER METERS, PRESSURE GAUGES, AND OTHER EQUIPMENT, MATERIAL AND FACILITIES REQUIRED FOR ALL HYDROSTATIC AND LEAKAGE TESTING. CONTRACTOR SHALL CONTACT LOCAL AGENCY, UTILITY PROVIDER, AND ENGINEER IN WRITTEN FORM, FORTY-EIGHT (48) HOURS IN ADVANCE OF PROPOSED TESTING. THE CONTRACTOR SHALL PERFORM SATISFACTORY PRETESTING PRIOR TO NOTIFICATION. NO TESTING WILL BE SCHEDULED ON A MONDAY OR FRIDAY.
- THE RECLAIMED WATER SYSTEM SHALL BE TESTED FOR LEAKAGE AT 150 PSI FOR TWO (2) HOURS PER UTILITY PROVIDER STANDARDS.
- ALL RECLAIMED WATER PIPES SHALL BE INSTALLED USING WATER PIPE CRITERIA. MAINS SHALL BE CLASS 52 D.I. PIPE 24-INCHES TO 36-INCHES OF COVER PROVIDED AND CLASS 51 IF 30-INCHES TO 36-INCHES OF COVER IS PROVIDED.
- SIGNS SHALL BE POSTED IN THE VICINITY OF PUBLIC RECLAIMED WATER RECLAIMED WATER IRRIGATION SYSTEMS, ADVISING THE PUBLIC THAT RECLAIMED WATER IS PRACTICED.

FIRE

- PLANS SHALL BE IN ACCORDANCE WITH THE 6TH EDITION OF THE FLORIDA FIRE PREVENTION CODE, AND THE FLORIDA FIRE PREVENTION CODE, WHICH EVER IS MORE STRINGENT.
- NFPA 101, 2015 EDITION
NFPA 1, 2015 EDITION
NFPA 14, 2013 EDITION
NFPA 24, 2013 EDITION
- THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.

SPECIAL PURPOSE

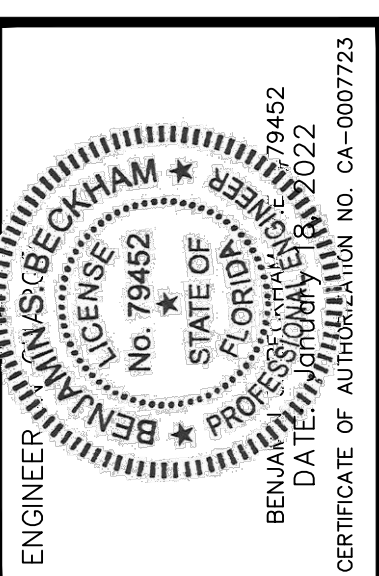


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CIVIL ENGINEERS

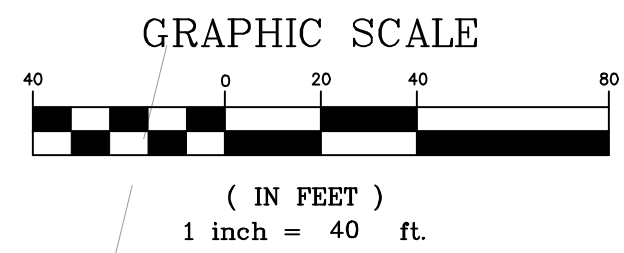
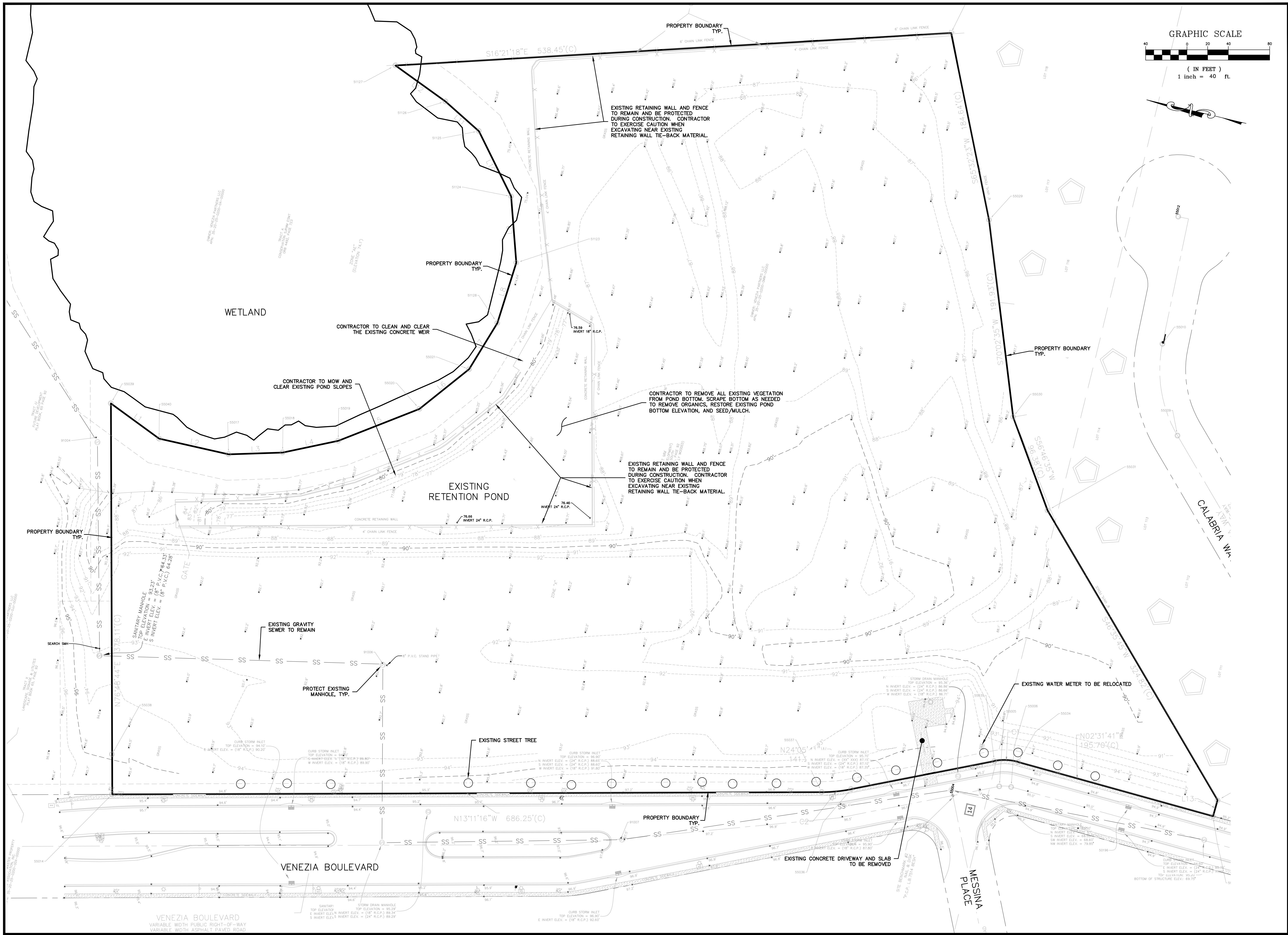
431 E. Horatio Avenue
Suite 260
Maitland, Florida 32751
(407) 629-8330

GENERAL NOTES
FOR
VENEZIA TOWNHOMES
LAKE COUNTY
HOWEY-IN-THE-HILLS, FLORIDA

D. R. HORTON
10192 DOWDER RD., SUITE 150
ORLANDO, FL 32832
(407) 850-5245



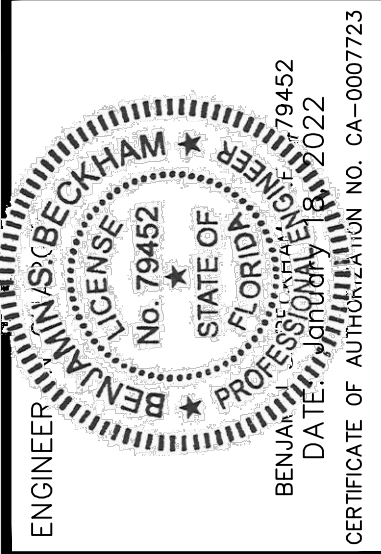
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EXISTING CONDITIONS AND DEMOLITION PLAN
FOR
VENEZIA TOWNHOMES
LAKE COUNTY
HOWEY-IN-THE-HILLS, FLORIDA

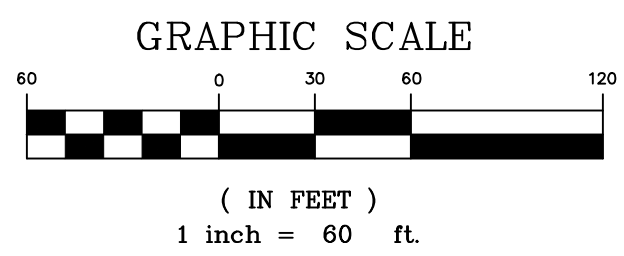
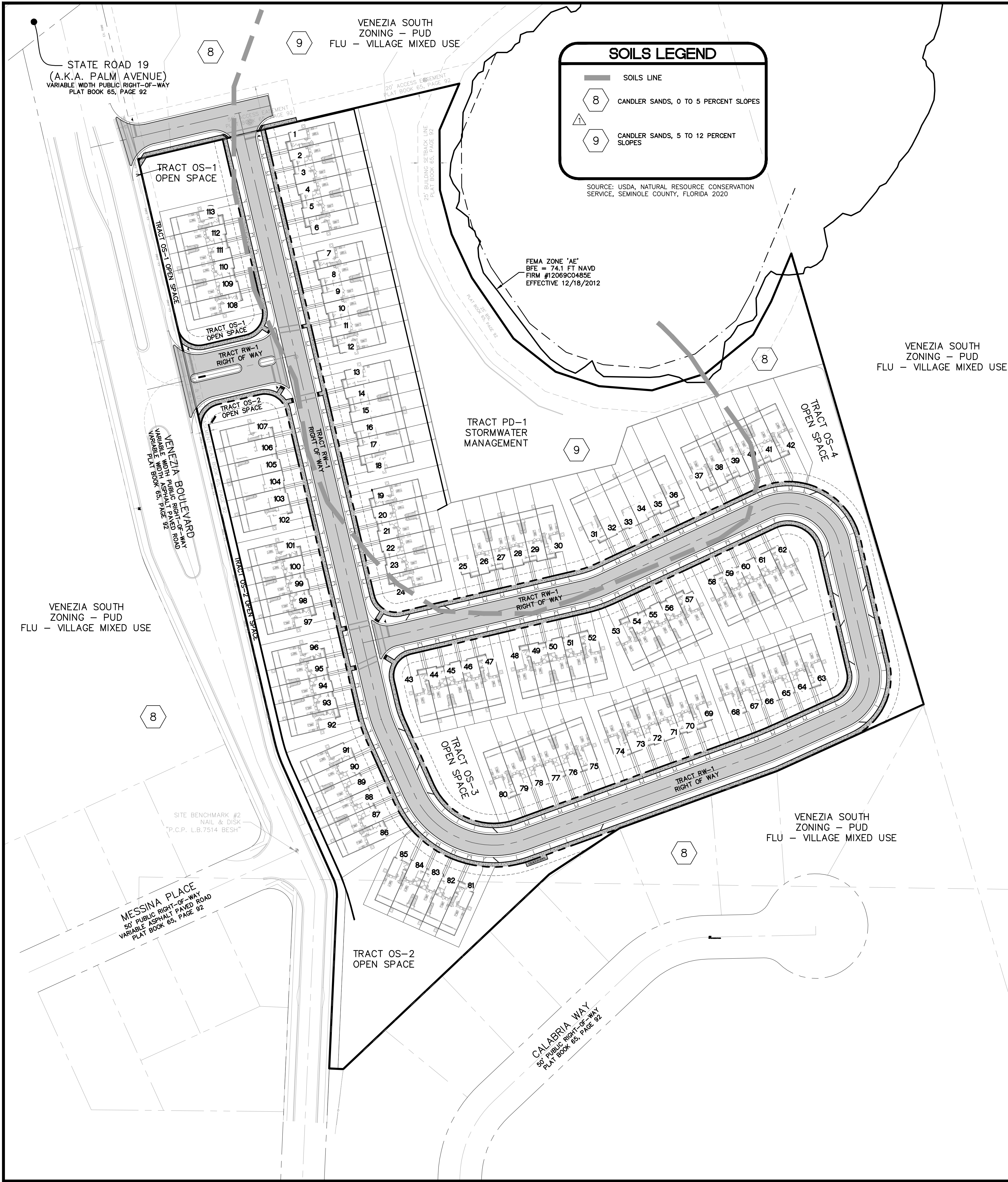
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ORLANDO, FL 32832
(407) 850-5245



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JOB # 21052
DATE: 10/22/2021
SCALE: 1" = 40'
DESIGNED BY: BSB
DRAWN BY: JAS
APPROVED BY: BSB

C005



SITE DATA:

- 1. PARCEL ID: 35-20-25-0200-0MM-00000
- 2. EXISTING ZONING: (PUD)
- 3. EXISTING FUTURE LAND USE: (VMU) VILLAGE MIXED USE
- 4. EXISTING USE: VACANT LAND (MASS-GRADED)
- 5. PROJECT IS LOCATED IN ZONE X PER FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 12069C0485E FOR LAKE COUNTY DATED DECEMBER 18, 2012. ZONE X IS DESCRIBED AS AREAS OUTSIDE OF 0.2% ANNUAL CHANCE FLOODPLAIN AND ALSO DESCRIBED AS AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT.
- 6. THE PARCEL DOES NOT CONTAIN ANY WETLANDS.
- 7. STORMWATER GENERATED BY THE PROJECT SITE WILL BE TREATED USING THE EXISTING ON-SITE STORMWATER MANAGEMENT SYSTEM. THE EXISTING ON-SITE SYSTEM WAS PREVIOUSLY PERMITTED BY SJRWMD BY PERMIT NO. 18971-3.
- 8. ALL LANDSCAPING WILL BE UNDER SINGLE MAINTENANCE ENTITY, NOT CARED FOR BY HOMEOWNERS.
- 9. WATER AND SEWER TO BE PROVIDED BY TOWN OF HOWEY-IN-THE-HILLS.
- 10. ALL PROPOSED UTILITIES (ELECTRICAL, CABLE TV, GAS, TELEPHONE, ETC.) SHALL BE INSTALLED UNDERGROUND.
- 11. ALL CONSTRUCTION MATERIALS AND OTHER PROPOSED IMPROVEMENTS SHALL MEET THE APPLICABLE CODES OF TOWN OF HOWEY-IN-THE-HILLS.
- 12. ALL SIGNAGE AND STRIPING TO BE INSTALLED IN ACCORDANCE WITH MUTCD (LATEST EDITION) STANDARDS AND SPECIFICATIONS.
- 13. STREET LIGHTING SHALL BE PROVIDED PER TOWN OF HOWEY-IN-THE-HILLS LAND DEVELOPMENT CODE. A SEPARATE PERMIT WILL BE REQUIRED.

PROJECT DATA:

- 1. GROSS PROJECT AREA: 11.83 ACRES ±
- 2. EXISTING USE: VACANT LAND (MASS-GRADED)
- 3. FUTURE USE: TOWNHOUSES
- 4. MAX. PROPOSED UNITS: 113 UNITS
- 5. MIN. LOT AREA: 1,800 SF
- 6. MIN. LOT WIDTH: 18'
- 7. MIN. LOT DEPTH: 100'
- 8. MIN. LIVING AREA: 1,200 SF
- 9. MAX. BUILDING HEIGHT: 35' (TWO STORIES)
- 10. RESIDENTIAL USE DENSITY: 20 DU/AC (MAX. PER WIC) 11.83 ACRES x 20 DU/AC = 236 UNITS 113 UNITS / 11.83 ACRES = 9.55 DU/AC
- 11. TOWNHOUSE BUILDING SETBACKS: FRONT: 20' SIDE (INTERNAL UNIT): 0' SIDE (END UNIT): 10' STREET SIDE: 10' REAR: 10', 4' ACCESSORY STRUCTURES BUILDING SEPARATION: 20' (TWO STORIES)
- 12. SCHOOL AGE CHILDREN: ELEMENTARY: (113 DU) x (0.115 CHILD/DU) = 13 CHILDREN (113 DU) x (0.053 CHILD/DU) = 6 CHILDREN (113 DU) x (0.057 CHILD/DU) = 7 CHILDREN 26 CHILDREN
- 13. REQUIRED MIN. PARKING SPACES: (2 SPACES PER TOWNHOUSE) + (1 OVERFLOW SPACE / 4 TOWNHOUSE) 226 + 29 = 255 PARKING SPACES REQUIRED
- 14. WATER CAPACITY DEMAND: 113 DU X 350 GPD/DU = 39,350 GPD
- 15. WASTEWATER CAPACITY DEMAND: 113 DU X 300 GPD/DU = 33,900 GPD
- 16. OPEN SPACE REQUIRED: 20% OPEN SPACE MIN
- 17. OPEN SPACE PROPOSED: 2.94 AC (24.8%)

TRACT TABLE:

ID	DESCRIPTION	OWNER	MAINTENANCE	AREA (AC/%)
RW-1	RIGHT OF WAY	PUBLIC	PUBLIC	2.60 21.97%
OS-1	OPEN SPACE / LANDSCAPE BUFFER	H.O.A.	H.O.A.	0.22 1.85%
OS-2	OPEN SPACE / LANDSCAPE BUFFER	H.O.A.	H.O.A.	0.70 5.94%
OS-3	OPEN SPACE	H.O.A.	H.O.A.	0.13 1.13%
OS-4	OPEN SPACE	H.O.A.	H.O.A.	0.32 2.70%
PD-1	STORMWATER MANAGEMENT	H.O.A.	H.O.A.	1.56 13.21%
SINGLE FAMILY LOTS		PRIVATE	PRIVATE	6.29 53.20%
TOTAL				11.83 100.00%

MADDEN
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CIVIL ENGINEERS
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OVERALL SITE PLAN
FOR
VENEZIA TOWNHOMES
LAKE COUNTY
HOWEY-IN-THE-HILLS, FLORIDA

D. R. HORTON
10192 DOWDEN RD., SUITE 150
ORLANDO, FL 32832
(407) 850-5245

12/20/21	REVISED PER TOWN OF HOWEY-IN-THE-HILLS COMMENTS	DATE	REVISIONS
1			
2			
3			
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JOB # 21052
DATE: 10/22/2021
SCALE: 1" = 60'
DESIGNED BY: BSB
DRAWN BY: JAS
APPROVED BY: BSB

C100

- NOTE:
1. PEDESTRIAN RAMPS SHALL HAVE CAST-IN-PLACE ADA MATS, BRICK RED IN COLOR
 2. ALL COMMON AREAS AND TRACTS SHALL BE SODDED WITH SITE WORK
 3. ALL COMMON AREA SIDEWALKS TO BE INSTALLED WITH SITE WORK.

LEGEND:

- BOUNDARY / PROPERTY LINE
WETLAND LINE
WETLAND BUFFER LINE
CENTER LINE
EDGE OF PAVEMENT / MIAMI CURB
RIGHT-OF-WAY LINE
EASEMENT
LOT LINE
BUILDING SETBACK LINE
100 YR FLOOD LINE (FEMA)
WETLAND



DETAIL REFERENCE



CROSS SECTION DETAIL

WETLAND

PROPERTY AND CONSERVATION
EASEMENT BOUNDARY
TYP.

WETLAND LIMITS
-PER CONSERVATION
EASEMENT #3
ORB 4492, PAGE 723

25' UPLAND
BUFFER

EXISTING WALL
TYP.

EXISTING
RETENTION POND

PROPERTY BOUNDARY
TYP.

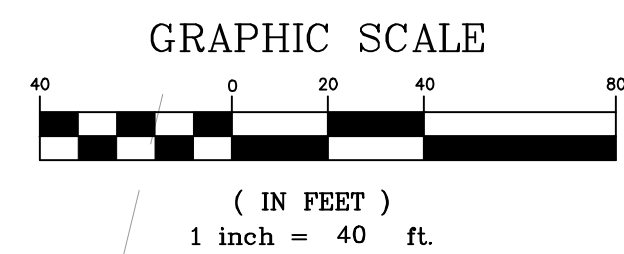
EXISTING WALL
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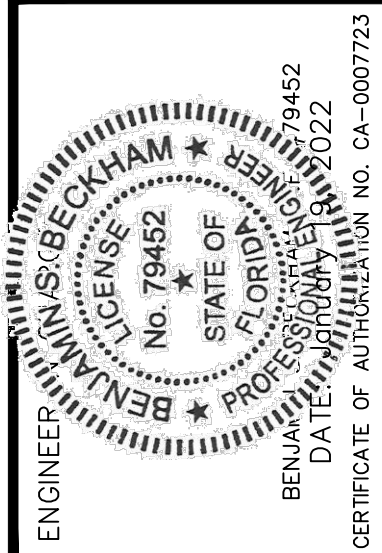
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SITE PLAN
FOR
VENEZIA TOWNHOMES
LAKE COUNTY
HOWEY-IN-THE-HILLS, FLORIDA

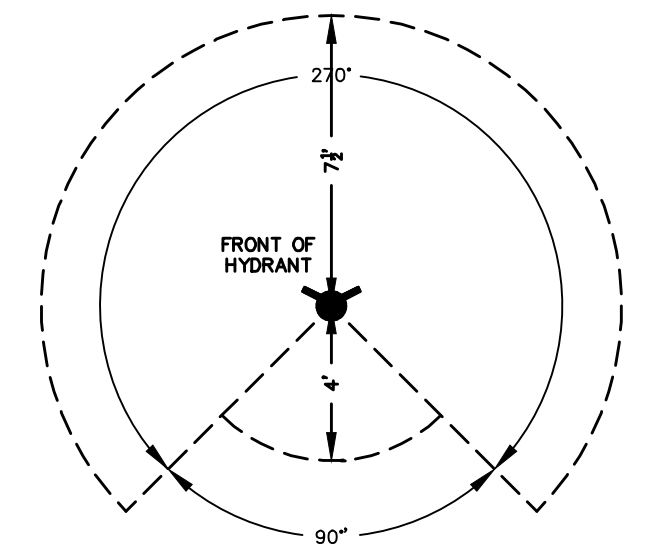
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NO.	DATE	REVISIONS
1	12/20/21	REVISED PER TOWN OF HOWEY-IN-THE-HILLS COMMENTS
2	12/20/21	REVISED PER TOWN OF HOWEY-IN-THE-HILLS COMMENTS
3	12/20/21	REVISED PER TOWN OF HOWEY-IN-THE-HILLS COMMENTS
4	12/20/21	REVISED PER TOWN OF HOWEY-IN-THE-HILLS COMMENTS
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6	12/20/21	REVISED PER TOWN OF HOWEY-IN-THE-HILLS COMMENTS
7	12/20/21	REVISED PER TOWN OF HOWEY-IN-THE-HILLS COMMENTS
8	12/20/21	REVISED PER TOWN OF HOWEY-IN-THE-HILLS COMMENTS
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JOB # 21052
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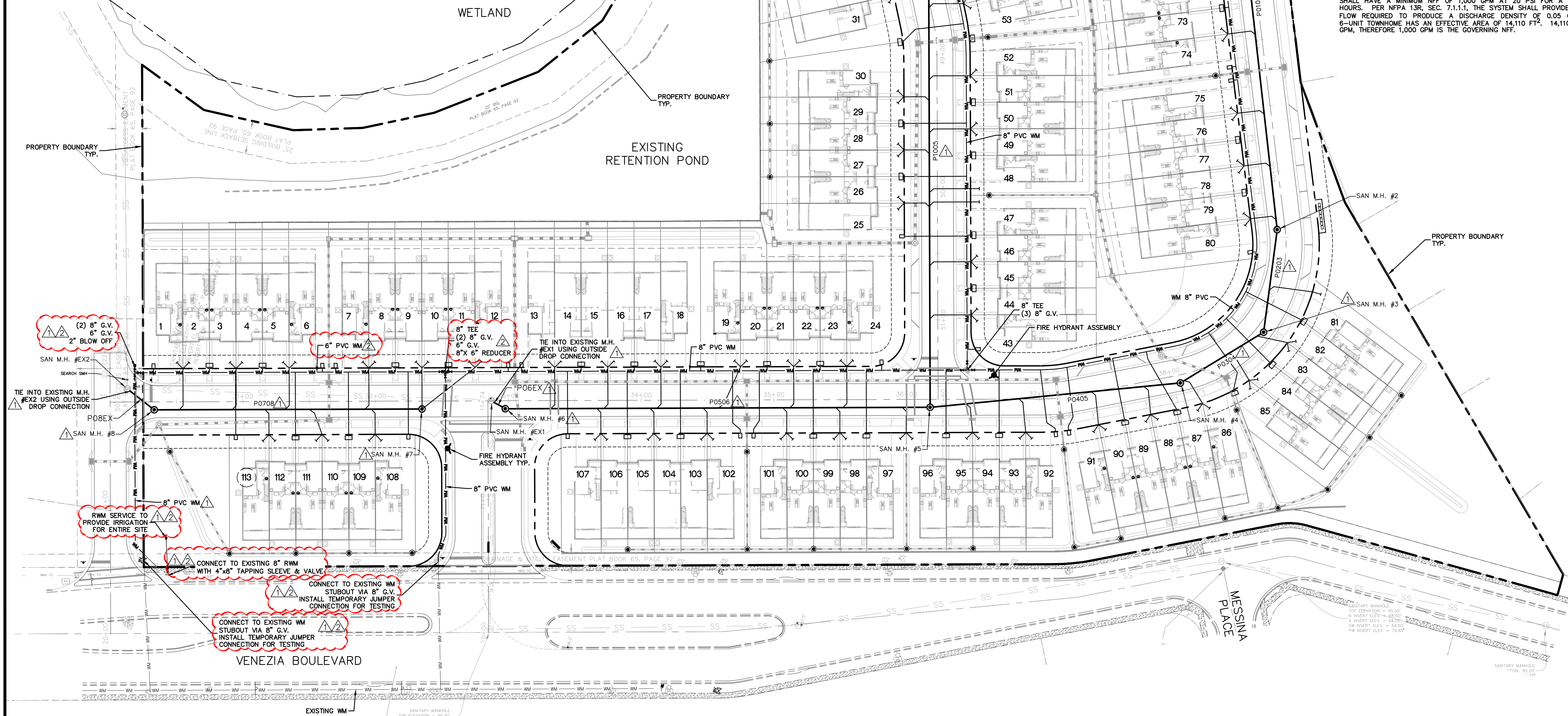
C101



FIRE HYDRANT CLEARANCE DETAIL

TYPICAL UTILITY LEGEND	
DESCRIPTION	
FIRE HYDRANT ASSEMBLY	
DOUBLE SANITARY SERVICE	
SINGLE SANITARY SERVICE	
DOUBLE WM SERVICE	
SINGLE WM SERVICE	
DOUBLE RWM SERVICE	
SINGLE RWM SERVICE	
GATE VALVE	
WM OR RWM CROSS	
WM OR RWM TEE	
BLOW-OFF AND VALVE	
WATER MAIN	
RECLAIM WATER MAIN	

FDEP SEPARATION REQUIREMENTS UNDER 62-555.314 EFFECTIVE 8-28-2003				
HAZARD	HORIZONTAL SEPARATION	VERTICAL SEPARATION		JOINT SPACING
		WATER ABOVE	WATER BELOW	
STORM SEWER	3FT MIN	12IN PREF, 6IN MIN	12IN MIN	3FT MIN
STORM FORCE MAIN	3FT MIN	12IN MIN	12IN MIN	3FT MIN
RECLAIMED WATER IF REGULATED UNDER 62-610	3FT MIN	12IN MIN	12IN MIN	3FT MIN
RECLAIMED WATER IF NOT REGULATED UNDER 62-610	10FT PREF, 6FT MIN	12IN MIN	12IN MIN	6FT MIN
VACUUM SANITARY SEWER	10FT PREF, 3FT MIN	12IN PREF, 6IN MIN	12IN MIN	3FT MIN
GRAVITY SANITARY SEWER	10FT PREF, 6FT MIN, 3FT MIN IF WATER MAIN IS 6IN ABOVE GRAVITY SANITARY SEWER.	12IN PREF, 6IN MIN	12IN MIN	6FT MIN
SANITARY SEWER FORCE MAIN	10FT PREF, 6FT MIN	12IN MIN	12IN MIN	6FT MIN
SEWAGE TREATMENT & DISPOSAL SYSTEM	10FT MIN	NONE	NONE	NONE



UTILITY NOTES:

1. MAINTAIN A MINIMUM OF 3 FEET OF COVER OVER ALL PROPOSED WATER AND WASTEWATER LINES.
2. ALL UTILITIES LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAYS AND PUBLIC EASEMENTS SHALL BE PRIVATELY OWNED AND MAINTAINED.
3. FLOW TESTS OF ALL FIRE HYDRANTS SHALL BE CONDUCTED AND FLOW TEST RESULTS PROVIDED TO CITY OF OCOCEE FIRE DEPARTMENT PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
4. WATER MAINS AND FIRE HYDRANTS SHALL BE INSTALLED, COMPLETED, AND IN SERVICE PRIOR TO COMBUSTIBLE MATERIALS BEING BROUGHT ON TO THE SITE.
5. ALL SANITARY SEWER LATERALS SHALL HAVE A MINIMUM SLOPE OF 1%.
6. ALL SANITARY SEWER PIPE SHALL HAVE A MINIMUM SLOPE OF 0.30%.
7. ALL SANITARY SEWER MANHOLES SHALL HAVE A MINIMUM DEPTH OF 4 FT.
8. ALL FIRE HYDRANT VALVES SHALL BE LOCATED ON THE DOWNSTREAM END OF THE FIRE HYDRANT SUPPLY LINE AT THE TEE.

FIRE FLOW DEMAND CALCULATIONS:

THE NEEDED FIRE FLOW IS BASED ON THE ISO GUIDE TO DETERMINING NEEDED FIRE FLOW, LATEST EDITION, PER ISO GUIDE EDITION 06-204, CHAPTER 1, NOTE 2, RESIDENTIAL OCCUPANCIES SERVED BY AN NFPA 13R COMPLIANT SPRINKLER SYSTEM SHALL HAVE A MINIMUM NFF OF 1,000 GPM AT 20 PSI FOR A DURATION OF 2 HOURS. PER NFPA 13R, SEC. 7.1.1.1, THE SYSTEM SHALL PROVIDE AT LEAST THE FLOW REQUIRED TO PRODUCE A DISCHARGE DENSITY OF 0.05 GPM/FT². THE 6-UNIT TOWNHOME HAS AN EFFECTIVE AREA OF 14,110 FT². 14,110 X 0.05 = 705 GPM, THEREFORE 1,000 GPM IS THE GOVERNING NFF.

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UTILITY PLAN
FOR
VENEZIA TOWNHOMES
LAKE COUNTY
HOWEY-IN-THE-HILLS, FLORIDA

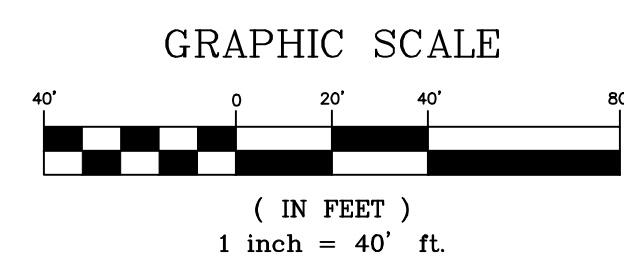
D. R. HORTON
10192 DOWNEY RD., SUITE 150
ORLANDO, FL 32832
(407) 850-5245


ENGINEER
BENJAMIN S. BECKHAM
No. 79452
STATE OF FLORIDA
DATE: 10/22/2021
BENJAMIN S. BECKHAM
No. 79452
STATE OF FLORIDA
DATE: 10/22/2021
CERTIFICATE OF AUTHORIZATION NO. CA-0007723

NO.	DATE	REVISIONS
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JOB # 21052
DATE: 10/22/2021
SCALE: 1" = 40'
DESIGNED BY: BSB
DRAWN BY: JAS
APPROVED BY: BSB

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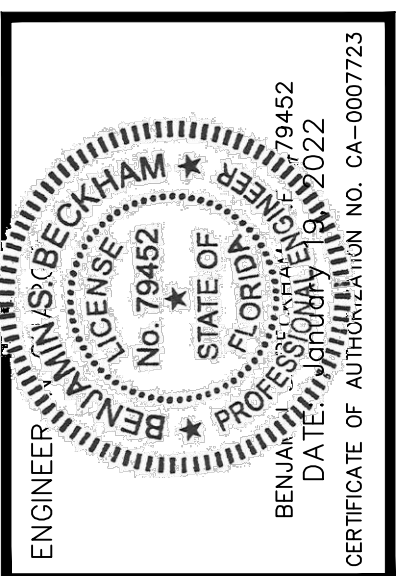




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DRAINAGE PLAN
FOR
VENEZIA TOWNHOMES
LAKE COUNTY
HONEY-IN-THE-HILLS, FLORIDA

D. R. HORTON
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NO.	DATE	REVISIONS
1	12/20/21	REVISED PER TOWN OF HONEY-IN-THE-HILLS COMMISSION
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REVISED OVERALL STORM LAYOUT AND NAMES

YARD DRAIN STRUCTURE TABLE			
STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT
YD-01	12" RIM = 88.12 SUMP = 85.1 INV OUT = 85.12		YP-01, 12" HP INV OUT =85.12
YD-02	12" RIM = 88.22 SUMP = 84.8 INV IN = 84.76 INV OUT = 84.76	YP-01, 12" HP INV IN =84.76	YP-02, 12" HP INV OUT =84.76
YD-03	12" RIM = 87.56 SUMP = 84.6 INV IN = 84.03 INV OUT = 83.97	YP-02, 12" HP INV IN =84.03	YP-03, 12" HP INV OUT =83.97
YD-04	12" RIM = 88.27 SUMP = 84.5 INV OUT = 84.76		YP-04, 12" HP INV OUT =84.76
YD-05	12" RIM = 88.77 SUMP = 84.0 INV IN = 83.97 INV IN = 83.97 INV OUT = 83.97	YP-04, 12" HP INV IN =83.97 YP-05, 12" HP INV IN =83.97	YP-06, 12" HP INV OUT =83.97
YD-06	12" RIM = 87.50 SUMP = 84.7 INV OUT = 84.70		YP-05, 12" HP INV OUT =84.70
YD-07	12" RIM = 89.25 SUMP = 83.3 INV IN = 83.27 INV OUT = 83.27	YP-06, 12" HP INV IN =83.27	YP-07, 12" HP INV OUT =83.27
YD-08	12" RIM = 89.75 SUMP = 82.8 INV IN = 82.77 INV IN = 82.77 INV IN = 82.04	YP-10, 12" HP INV IN =82.77 YP-07, 12" HP INV IN =82.77 YP-08, 12" HP INV IN =82.04	
YD-09	12" RIM = 89.00 SUMP = 82.0 INV OUT = 82.77 INV OUT = 82.04		YP-08, 12" HP INV OUT =82.77 YP-09, 12" HP INV OUT =82.04
YD-10	12" RIM = 90.55 SUMP = 83.7 INV OUT = 83.67		YP-10, 12" HP INV OUT =83.67
YD-11	12" RIM = 87.63 SUMP = 84.8 INV OUT = 84.83		YP-11, 12" HP INV OUT =84.83
YD-12	12" RIM = 87.63 SUMP = 84.4 INV IN = 84.43 INV OUT = 84.43	YP-11, 12" HP INV IN =84.43	YP-12, 12" HP INV OUT =84.43
YD-13	12" RIM = 87.63 SUMP = 83.9 INV IN = 83.93 INV OUT = 83.93	YP-12, 12" HP INV IN =83.93	YP-13, 12" HP INV OUT =83.93
YD-14	12" RIM = 87.23 SUMP = 83.5 INV IN = 83.53 INV IN = 83.53 INV OUT = 83.53	YP-13, 12" HP INV IN =83.53 YP-16, 12" HP INV IN =83.53	YP-14, 12" HP INV OUT =83.53
YD-15	12" RIM = 87.00 SUMP = 82.1 INV IN = 82.73 INV OUT = 82.73	YP-14, 12" HP INV IN =82.73	YP-15, 12" HP INV OUT =82.73
YD-16	12" RIM = 88.12 SUMP = 83.9 INV OUT = 83.94		YP-16, 12" HP INV OUT =83.94
YD-17	12" RIM = 2.30 SUMP = -3.7 INV OUT = 85.50		YP-17, 12" HP INV OUT =85.50
YD-18	12" RIM = 88.58 SUMP = 82.6 INV IN = 81.53 INV OUT = 81.53	P-28, 18" HP INV IN =81.53	P-29, 18" HP INV OUT =81.53

YARD DRAIN STRUCTURE TABLE			
STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT
YD-19	12" RIM = 88.35 SUMP = 82.4 INV IN = 80.72 INV OUT = 80.72	P-19, 24" HP INV IN =80.72	P-20, 24" HP INV OUT =80.72
YD-20	12" RIM = 87.79 SUMP = 81.8 INV IN = 81.24 INV OUT = 81.24	P-32, 24" HP INV IN =81.24	P-33, 24" HP INV OUT =81.24
YD-22	12" RIM = 89.05 SUMP = 49.0 INV OUT = 82.46 INV OUT = 82.46		YP-20, 12" HP INV OUT =82.46 YP-19, 12" HP INV OUT =82.46
YD-23	12" RIM = 86.25 SUMP = 46.3 INV IN = 83.08 INV OUT = 83.08	YP-20, 12" HP INV IN =83.08	YP-21, 12" HP INV OUT =83.08
YD-24	12" RIM = 86.35 SUMP = 46.3 INV IN = 83.55 INV OUT = 83.55	YP-21, 12" HP INV IN =83.55	YP-22, 12" HP INV OUT =83.55
YD-25	12" RIM = 86.75 SUMP = 46.8 INV IN = 83.95	YP-22, 12" HP INV IN =83.95	
YD-26	12" RIM = 86.52 SUMP = 46.5 INV OUT = 83.82		YP-23, 12" HP INV OUT =83.82
YD-27	12" RIM = 86.52 SUMP = 46.5 INV IN = 83.28 INV OUT = 83.28	YP-23, 12" HP INV IN =83.28	YP-24, 12" HP INV OUT =83.28
YD-28	12" RIM = 87.02 SUMP = 47.0 INV IN = 82.84 INV OUT = 82.84	YP-24, 12" HP INV IN =82.84	YP-25, 12" HP INV OUT =82.84
YD-29	12" RIM = 85.14 SUMP = 45.1 INV IN = 82.34 INV OUT = 82.34	YP-25, 12" HP INV IN =82.34	YP-26, 12" HP INV OUT =82.34
YD-30	12" RIM = 84.74 SUMP = 44.7 INV IN = 81.94 INV OUT = 81.94	YP-26, 12" HP INV IN =81.94	YP-27, 12" HP INV OUT =81.94
YD-31	12" RIM = 83.41 SUMP = 73.9 INV IN = 81.44 INV OUT = -0.50	YP-27, 12" HP INV IN =81.44	YP-28, 12" HP INV OUT =-0.50
YD-32	12" RIM = 1.47 SUMP = -0.5 INV IN = -0.50 INV OUT = -0.50	YP-28, 12" HP INV IN =-0.50	YP-29, 12" HP INV OUT =-0.50
YD-33	12" RIM = 93.75 SUMP = 87.8 INV OUT = 90.95		YP-30, 12" HP INV OUT =90.95
YD-34	12" RIM = 93.28 SUMP = 87.3 INV IN = 90.48 INV OUT = 90.48	YP-30, 12" HP INV IN =90.48	YP-31, 12" HP INV OUT =90.48
YD-35	12" RIM = 92.88 SUMP = 86.9 INV IN = 90.08 INV OUT = 90.08	YP-31, 12" HP INV IN =90.08	YP-32, 12" HP INV OUT =90.08
YD-36	12" RIM = 92.38 SUMP = 86.4 INV IN = 89.58 INV OUT = 89.58	YP-32, 12" HP INV IN =89.58	YP-33, 12" HP INV OUT =89.58
YD-37	12" RIM = 91.49 SUMP = 85.5 INV IN = 88.69 INV OUT = 88.69	YP-33, 12" HP INV IN =88.69	YP-34, 12" HP INV OUT =88.69

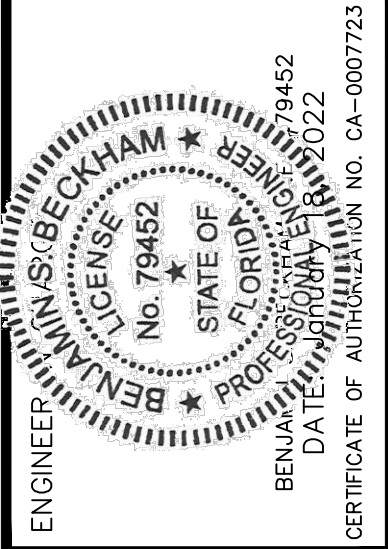
YARD DRAIN PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
YP-01	12"	35.53'	1.00%	HP
YP-02	12"	73.79'	1.00%	HP
YP-03	12"	24.87'	0.80%	HP
YP-04	12"	50.00'	1.58%	HP
YP-05	12"	73.33'	1.00%	HP
YP-06	12"	70.00'	1.00%	HP
YP-07	12"	50.00'	1.00%	HP
YP-08	12"	73.33'	1.00%	HP
YP-09	12"	24.87'	1.00%	HP
YP-10	12"	90.00'	1.00%	HP
YP-11	12"	39.66'	1.00%	HP
YP-12	12"	50.43'	1.00%	HP
YP-13	12"	39.82'	1.00%	HP
YP-14	12"	79.94'	1.00%	HP
YP-15	12"	25.57'	1.00%	HP
YP-16	12"	40.62'	1.00%	HP
YP-17	12"	80.33'	0.62%	HP
YP-20	12"	61.32'	-1.00%	HP
YP-21	12"	47.26'	-1.00%	HP
YP-22	12"	40.00'	-1.00%	HP
YP-23	12"	54.00'	1.00%	HP
YP-24	12"	61.36'	0.71%	HP
YP-25	12"	38.27'	1.31%	HP
YP-26	12"	40.21'	0.99%	HP
YP-27	12"	50.23'	1.00%	HP
YP-28	12"	32.80'	0.00%	HP
YP-29	12"	13.13'	-613.52%	HP
YP-30	12"	47.50'	1.00%	HP
YP-31	12"	40.00'	1.00%	HP
YP-32	12"	50.00'	1.00%	HP
YP-33	12"	88.82'	1.00%	HP
YP-34	12"	22.02'	1.00%	HP



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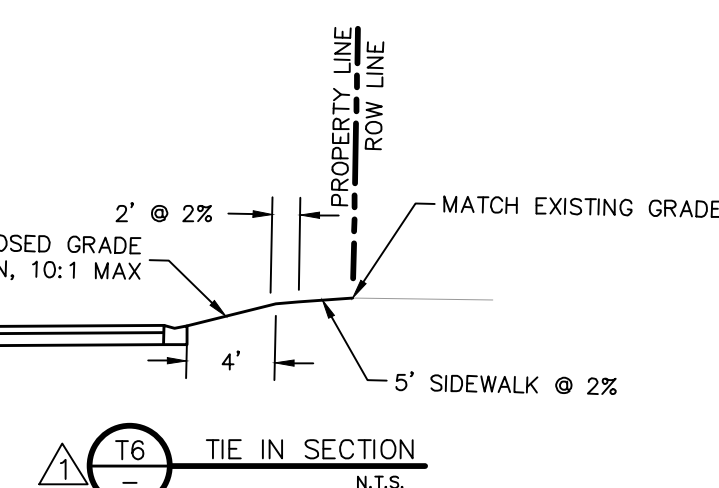
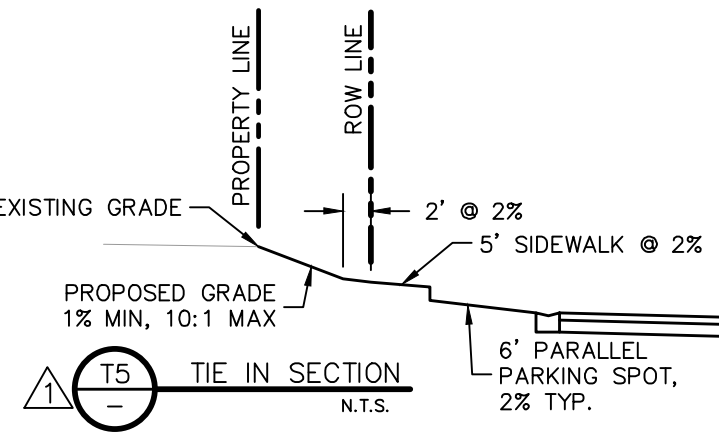
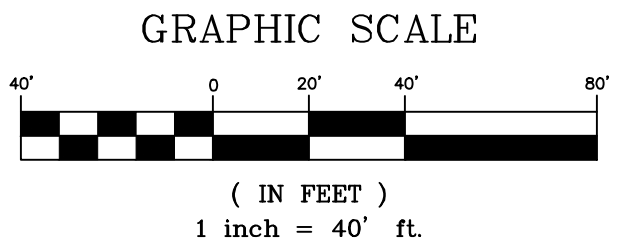
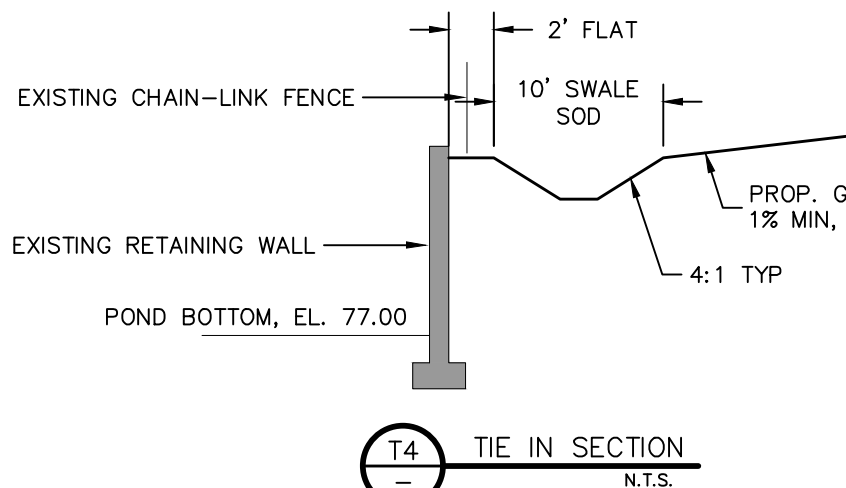
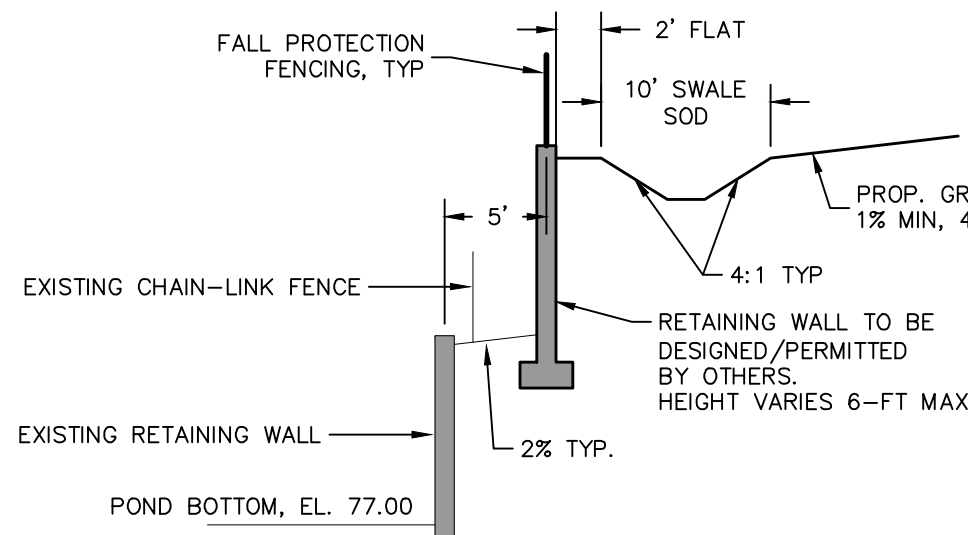
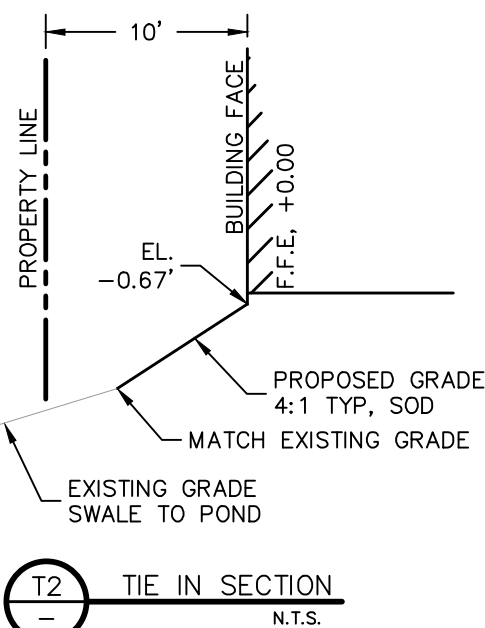
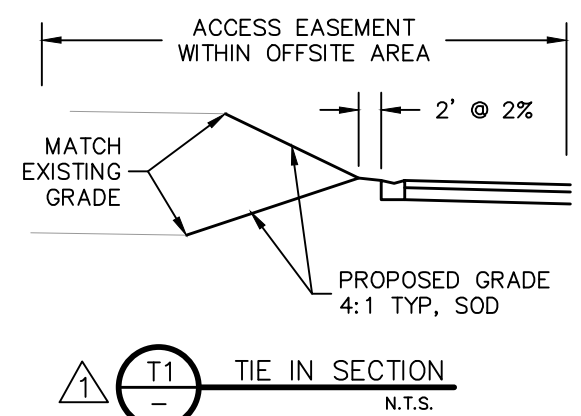
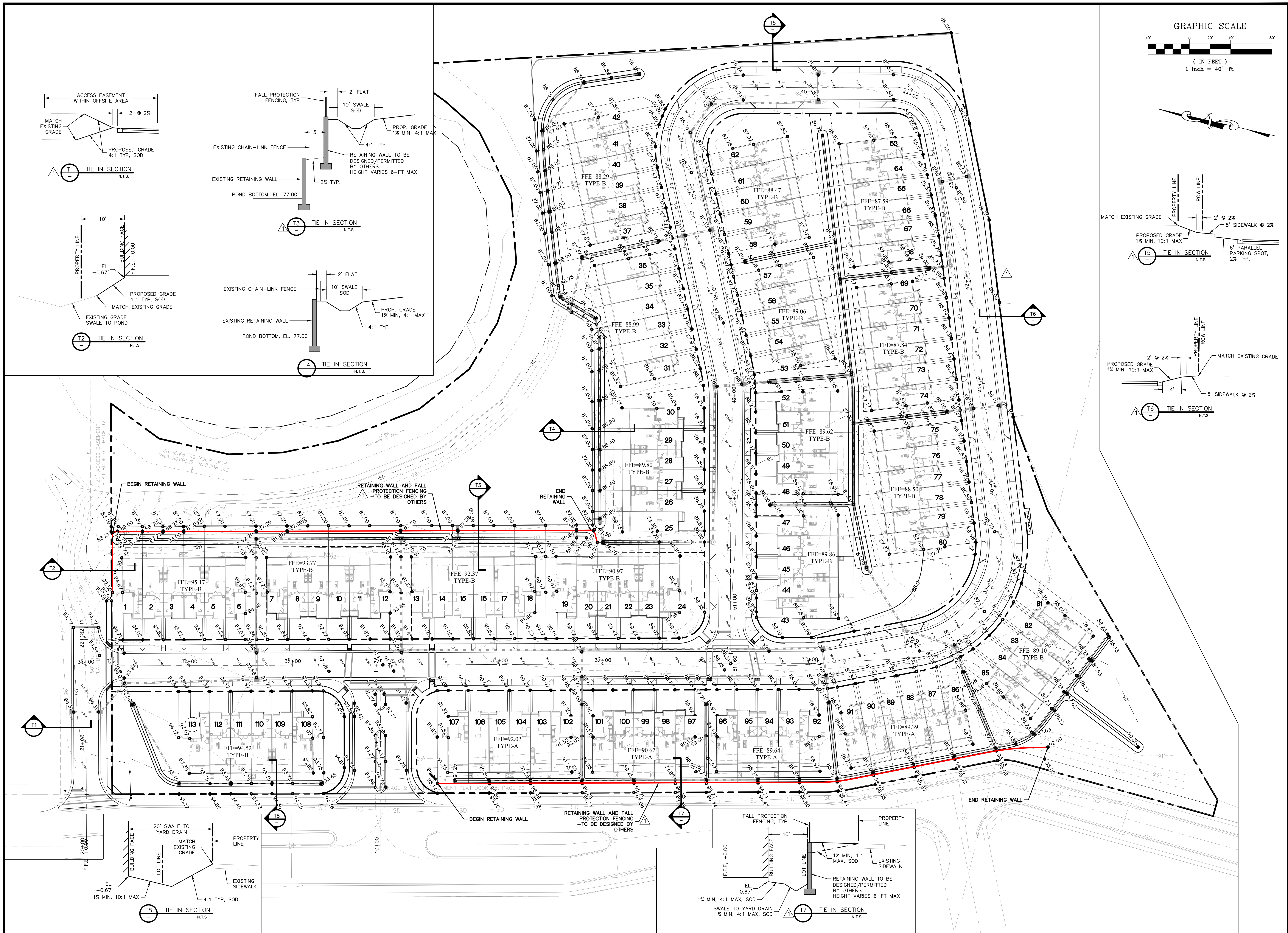
DRAINAGE PLAN
FOR
VENEZIA TOWNHOMES
LAKE COUNTY
HOWEY-IN-THE-HILLS, FLORIDA

D. R. HORTON
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REVISIONS										
NO.	DATE	DESCRIPTION	BY	CHKD.	APP'D.	DATE	DESCRIPTION	BY	CHKD.	APP'D.
1	12/20/21	ADDED SHEET PER TOWN OF HOWEY-IN-THE-HILLS COMMENTS								
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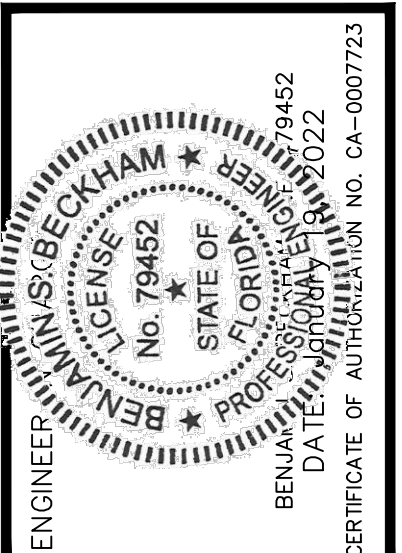
JOB # 21052
DATE: 10/22/2021
SCALE: N.T.S.
DESIGNED BY: BSB
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APPROVED BY: BSB



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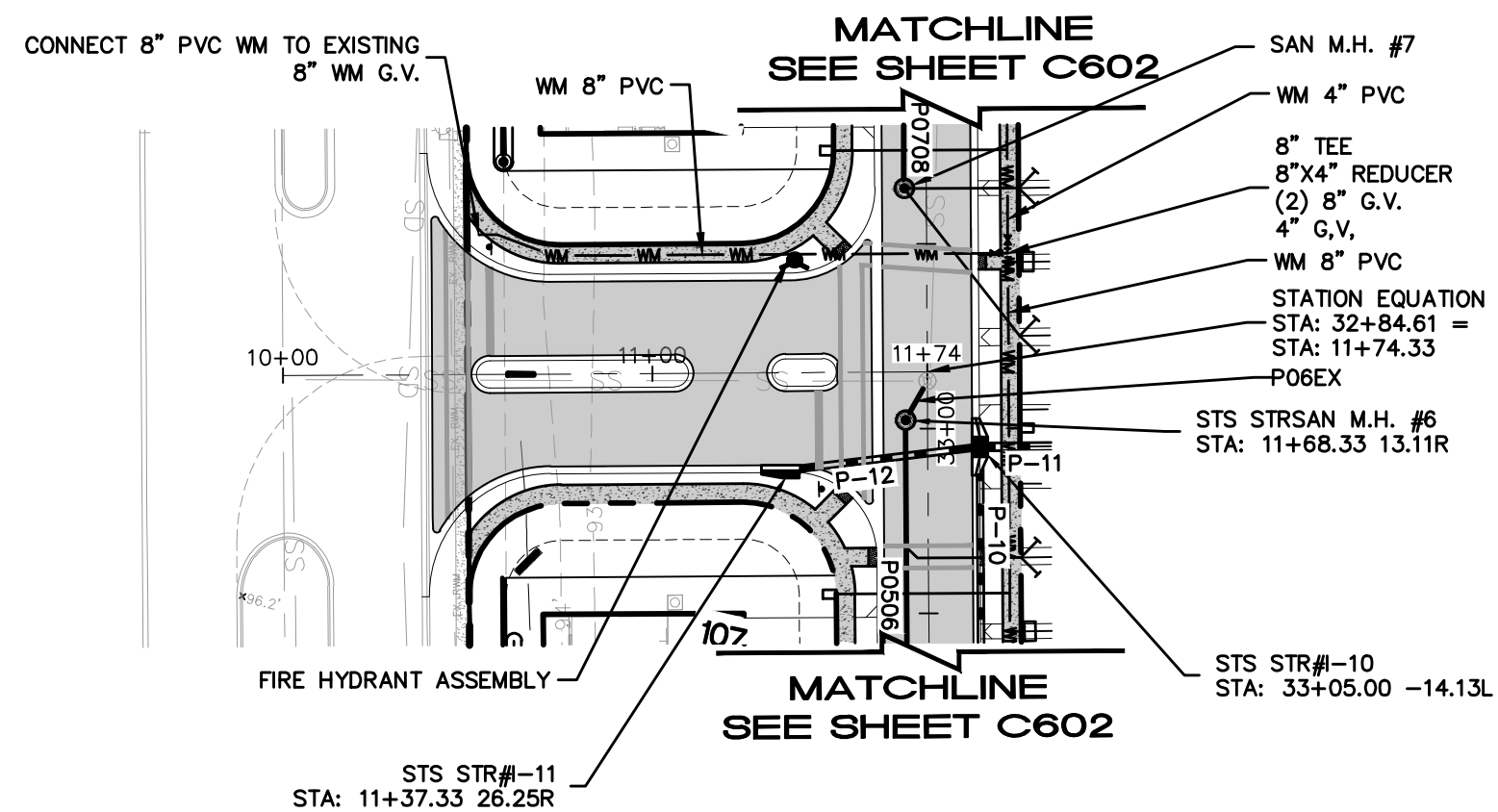
GRADING PLAN
FOR
VENEZIA TOWNHOMES
LAKE COUNTY
HOWEY-IN-THE-HILLS, FLORIDA

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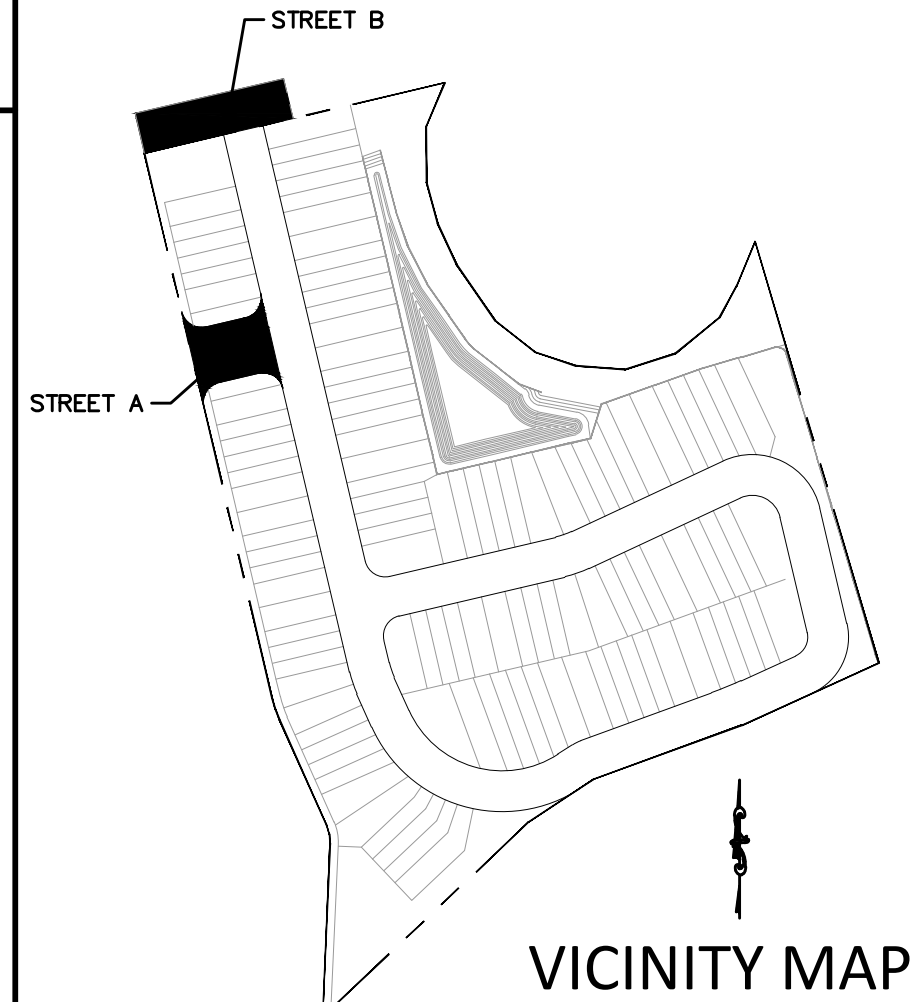
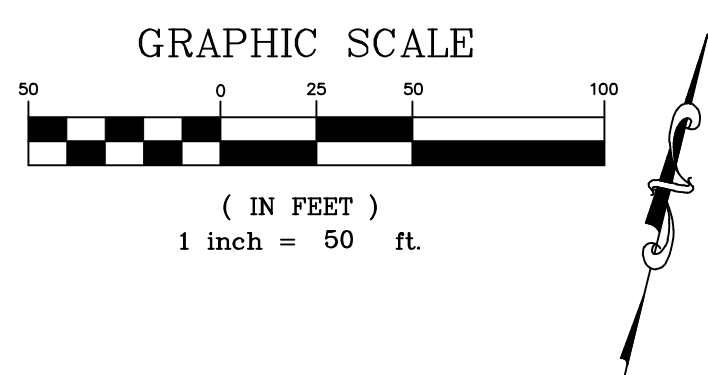
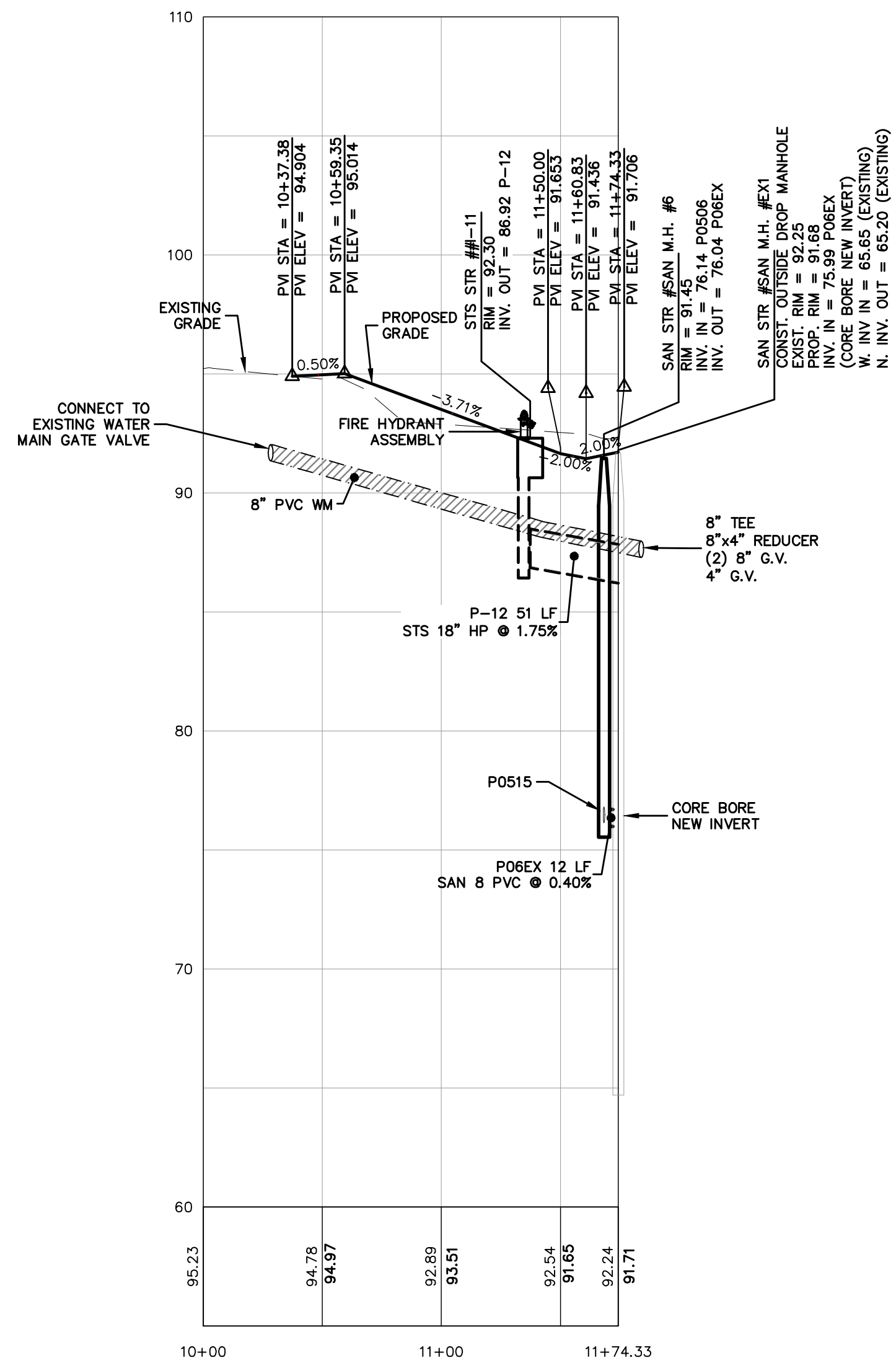


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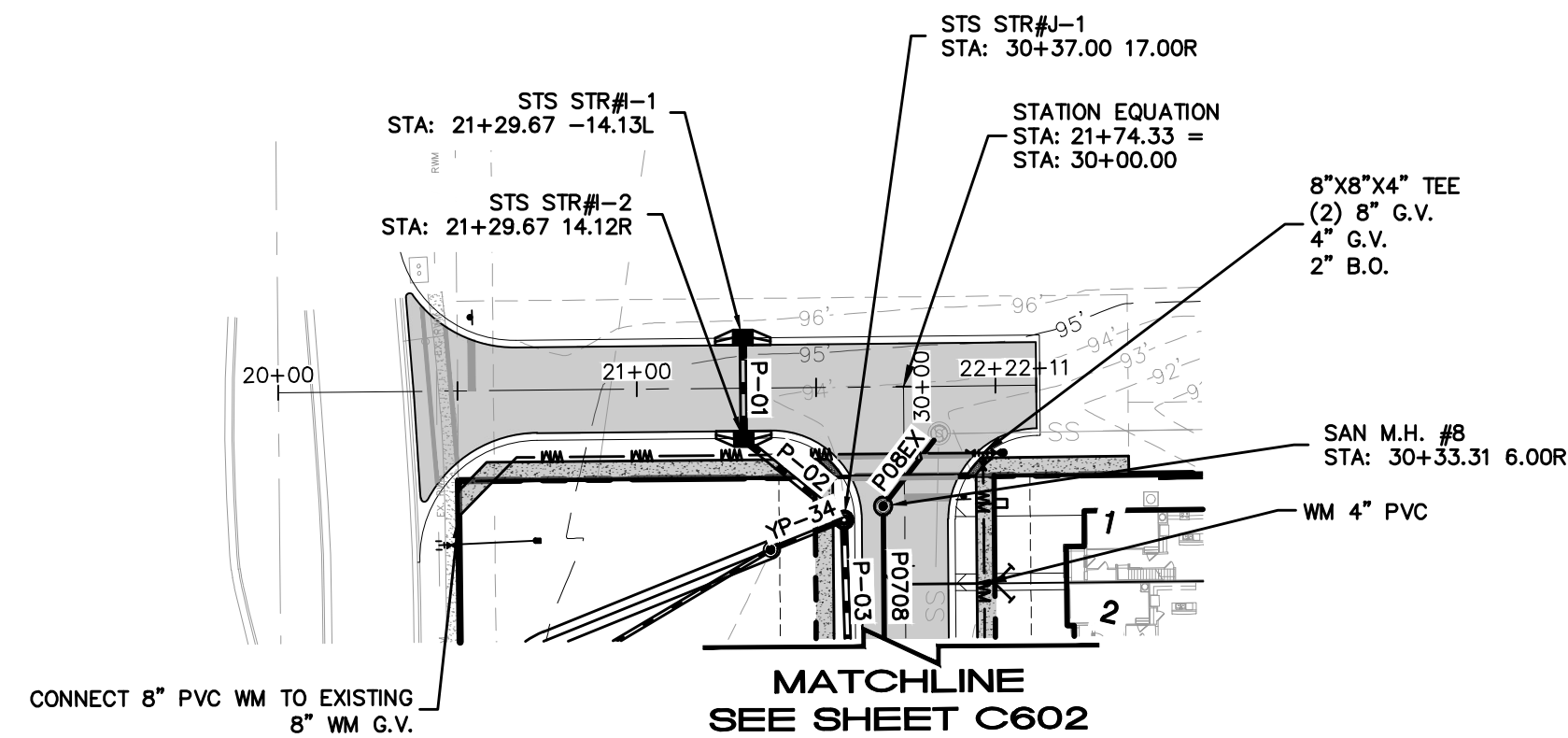
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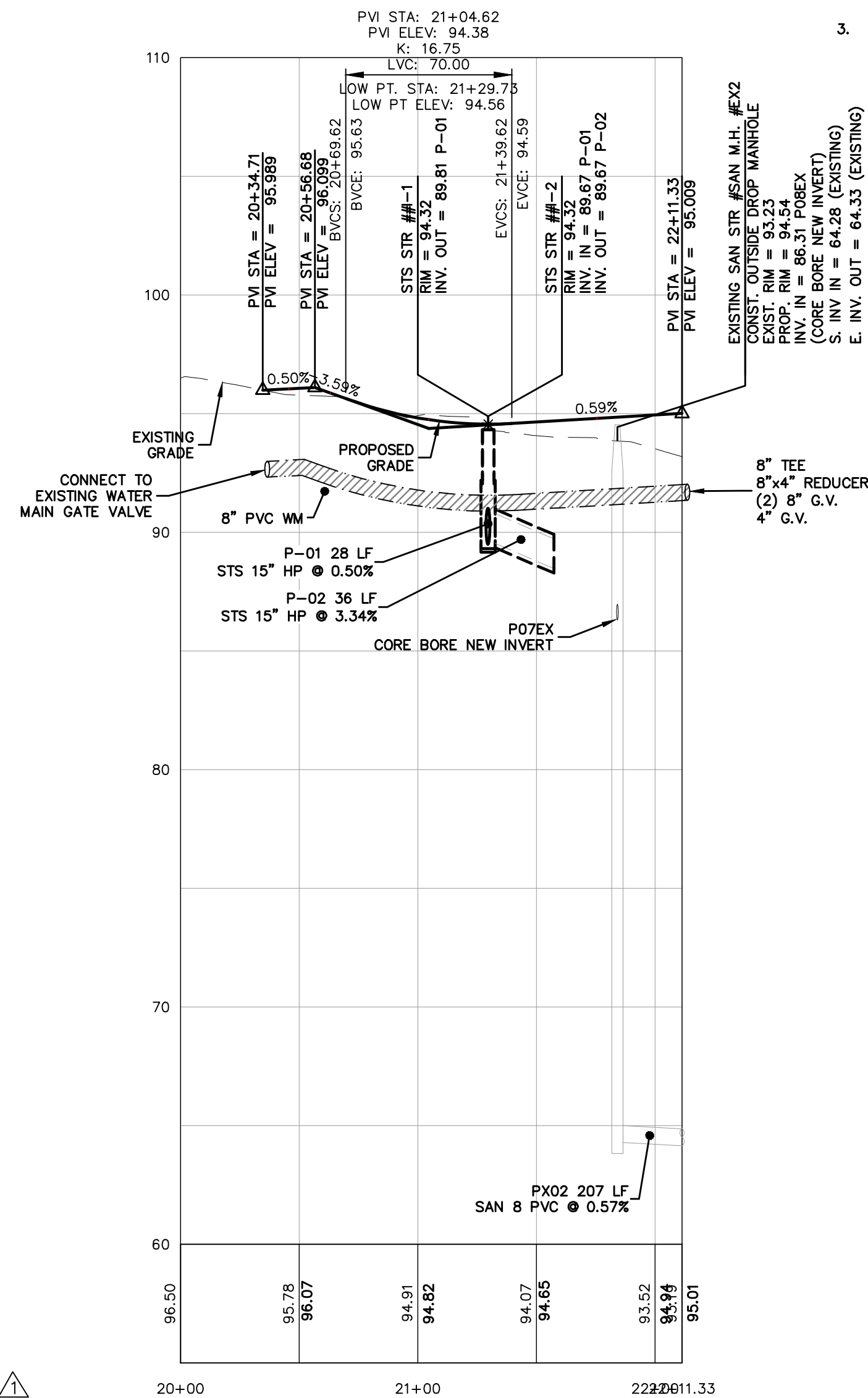
STREET 'A'



VICINITY MAP



STREET 'B'



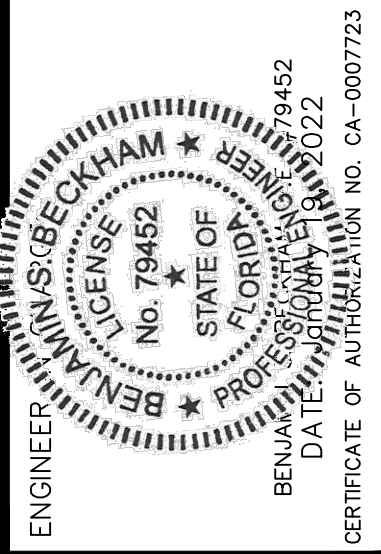
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 - ALL PRESSURE MAINS ARE TO BE LOCATED 3' BELOW GRADE UNLESS OTHERWISE NOTED.
 - UNLESS NOTED OTHERWISE, THE ESHGWT IS BELOW THE LIMITS OF THE PROFILE VIEW.

SYMBOL	DESCRIPTION
	FIRE HYDRANT ASSEMBLY
	DOUBLE SANITARY SERVICE
	SINGLE SANITARY SERVICE
	DOUBLE WM SERVICE
	SINGLE WM SERVICE
	DOUBLE RWM SERVICE
	SINGLE RWM SERVICE
	GATE VALVE
	WM OR RWM CROSS
	WM OR RWM TEE
	BLOW-OFF AND VALVE

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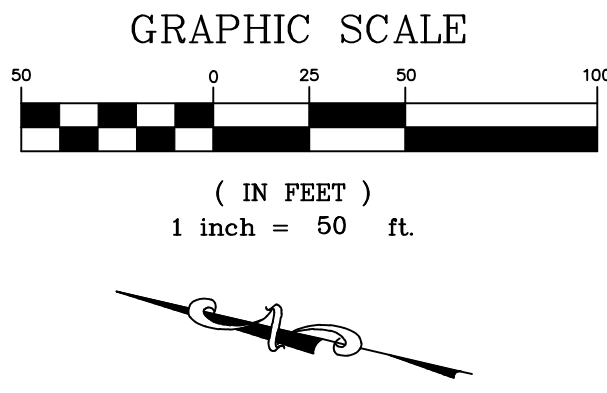
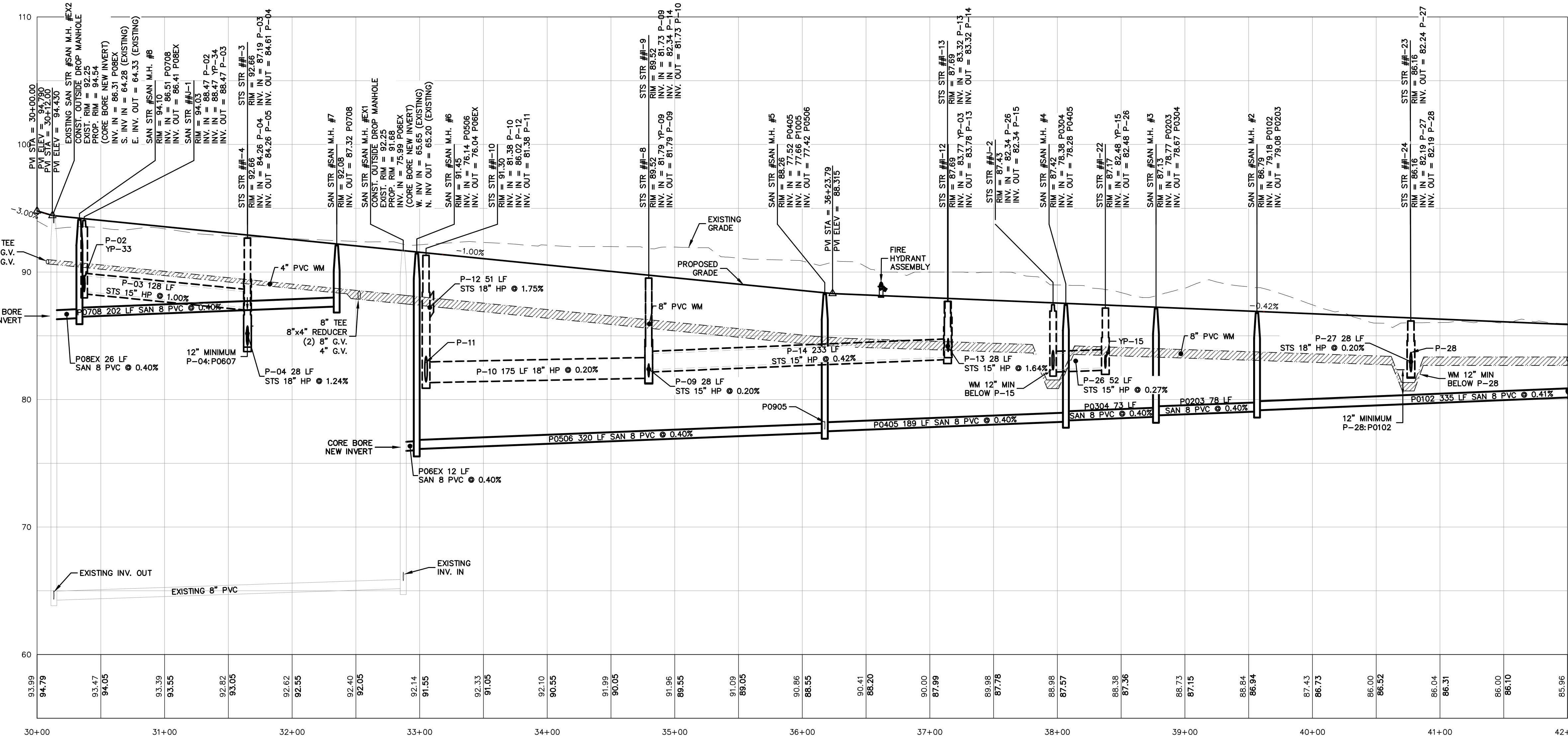
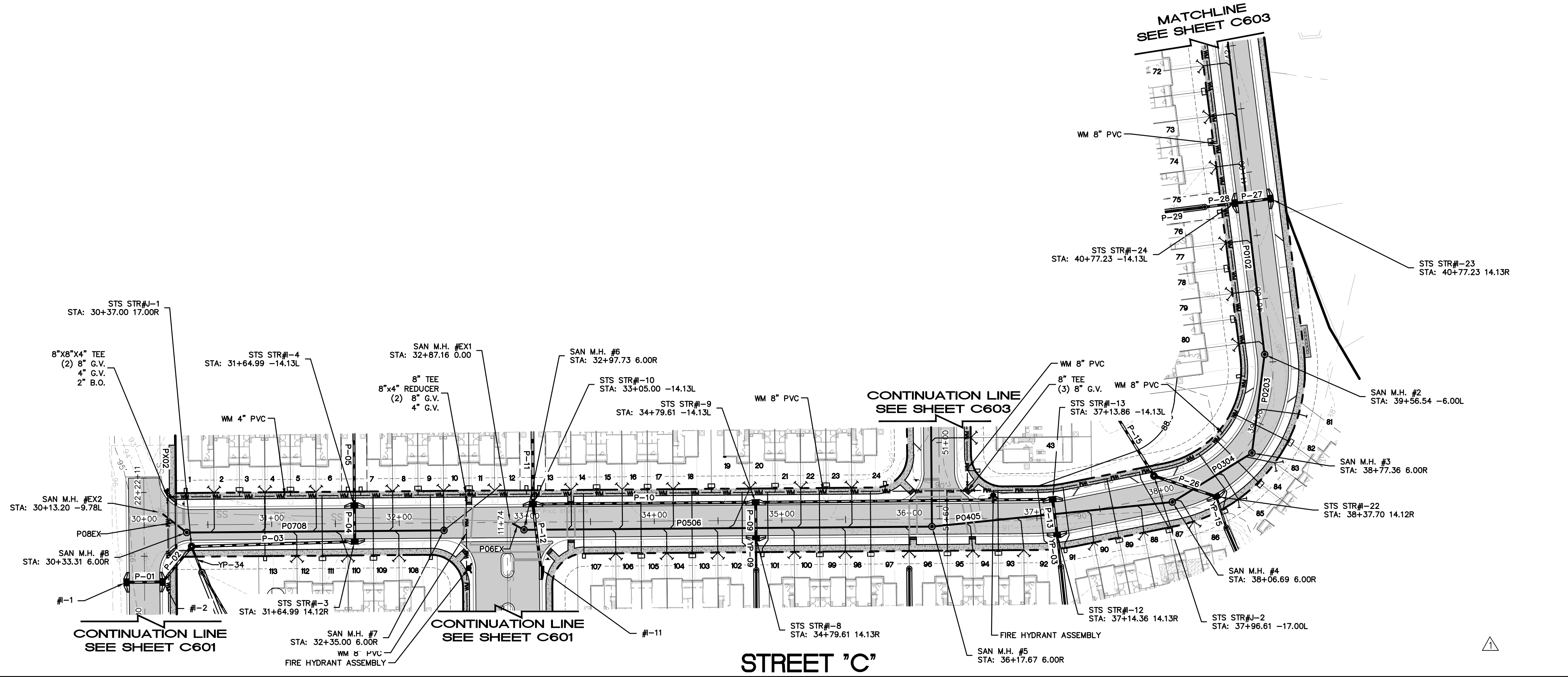
PLAN AND PROFILE
FOR
VENEZIA TOWNHOMES
LAKE COUNTY
HOWEY-IN-THE-HILLS, FLORIDA

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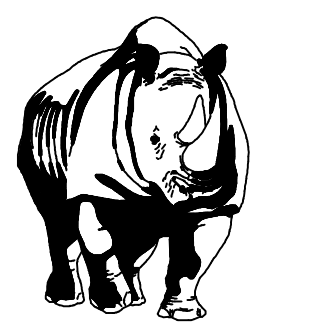
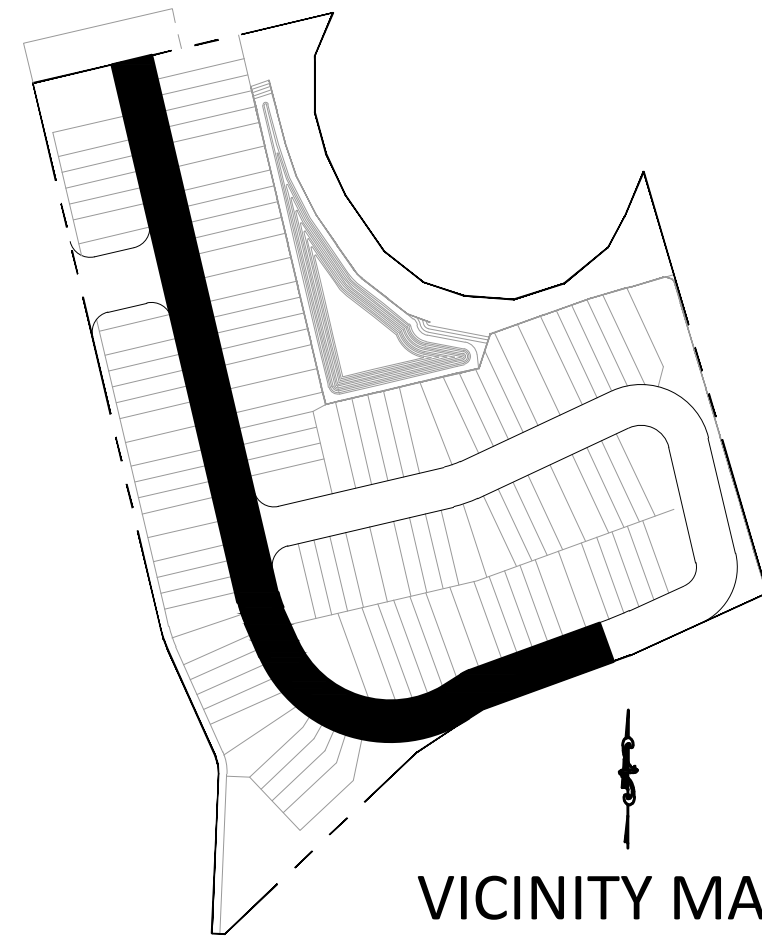


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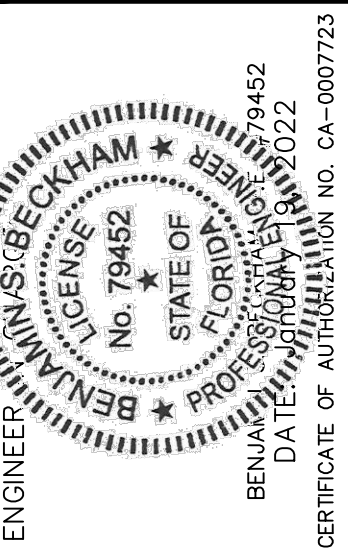
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PLAN AND PROFILE
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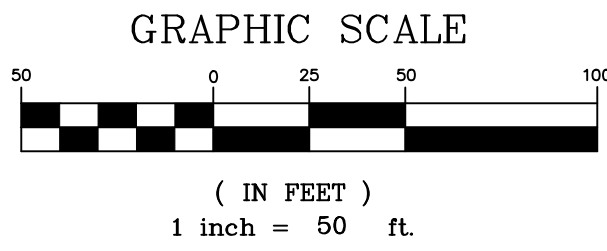
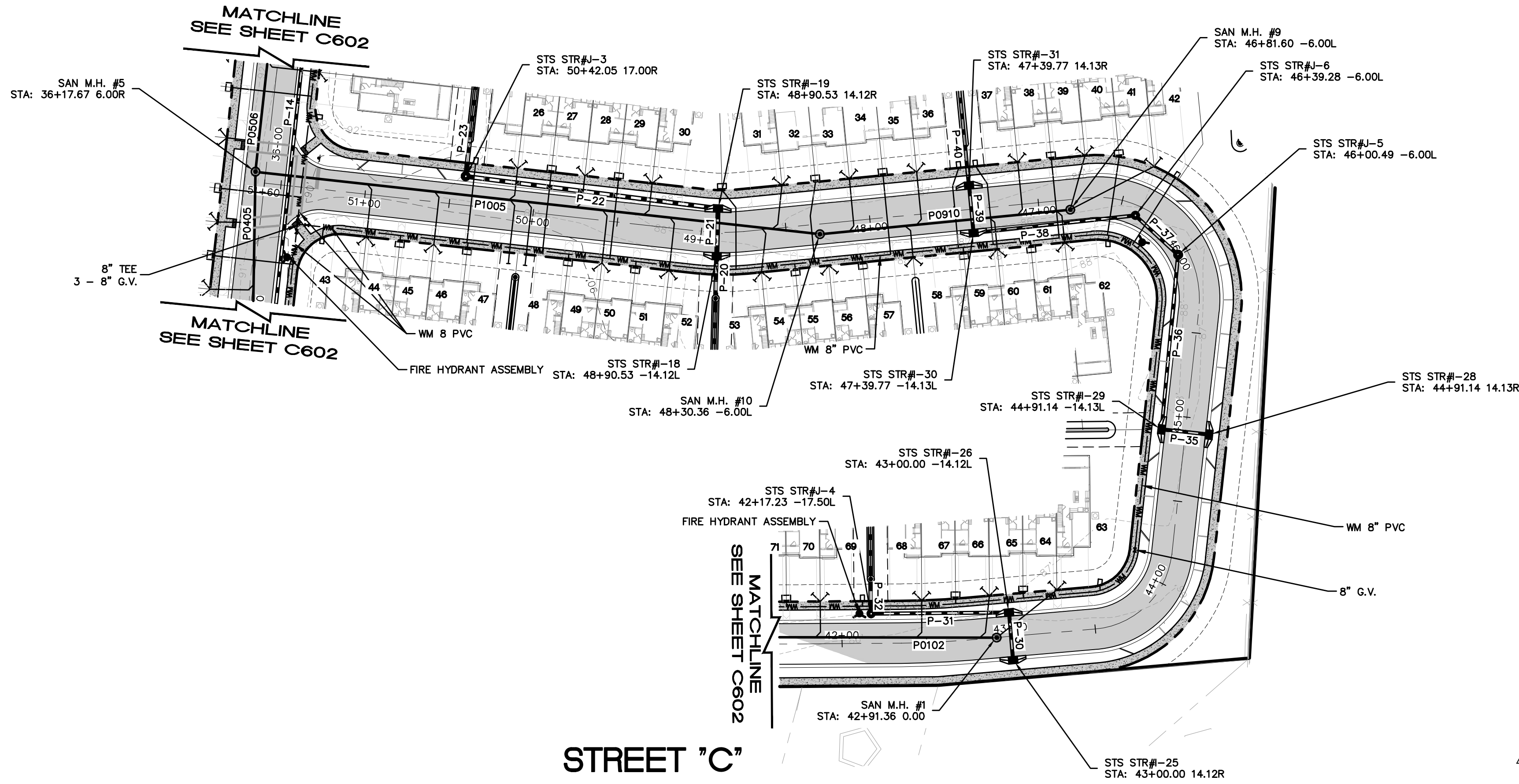
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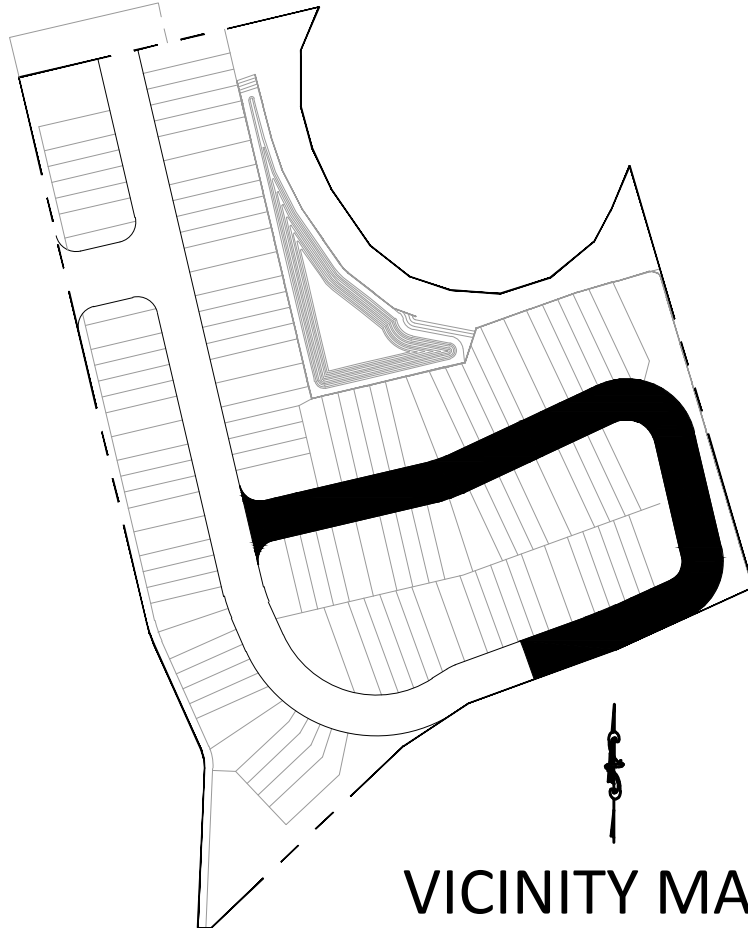
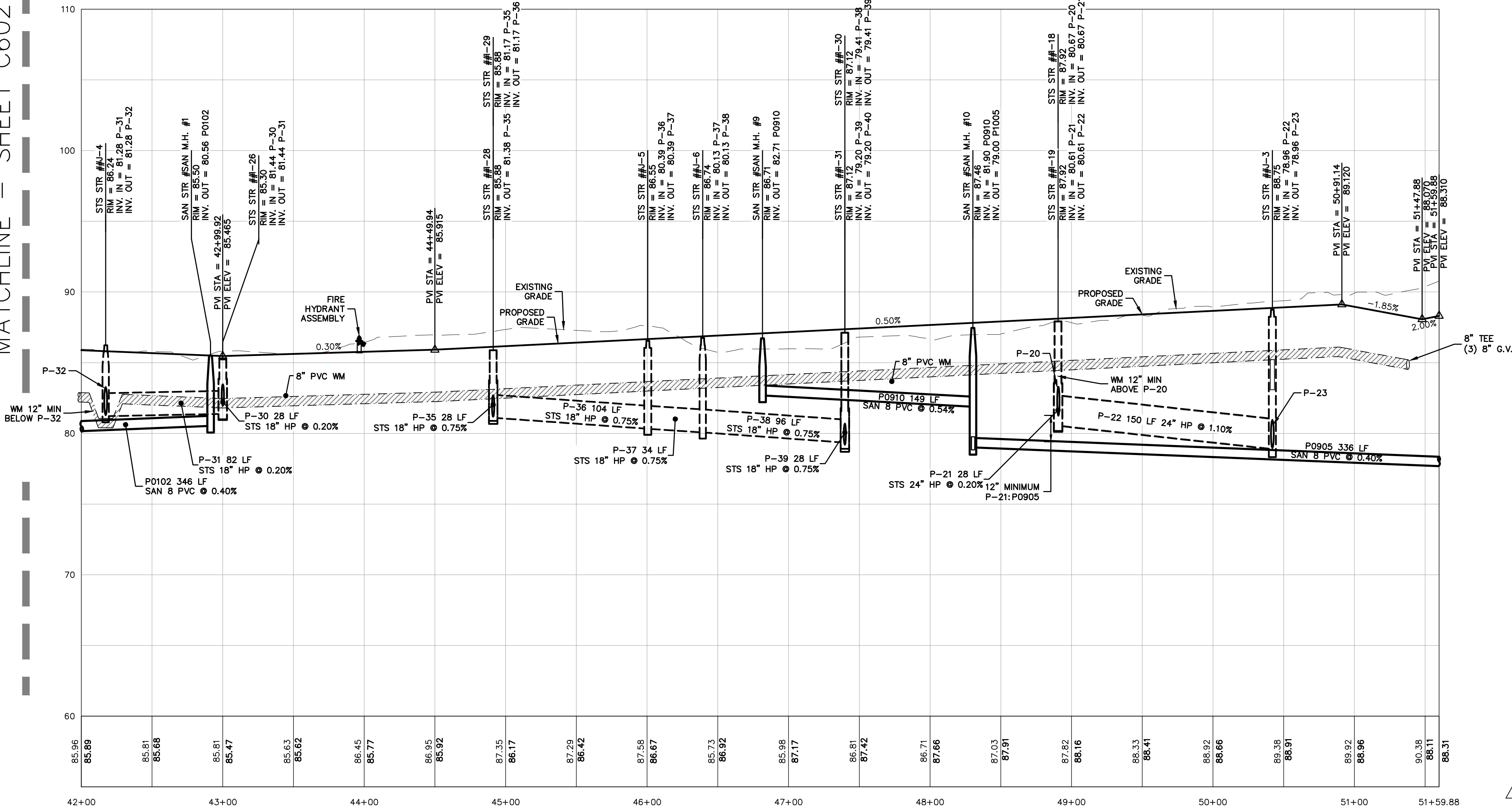
JOB # 21052
DATE: 10/22/2021
SCALE: 1" = 50'
DESIGNED BY: BSB
DRAWN BY: JAS
APPROVED BY: BSB

C602



TYPICAL UTILITY LEGEND	
SYMBOL	DESCRIPTION
	FIRE HYDRANT ASSEMBLY
	DOUBLE SANITARY SERVICE
	SINGLE SANITARY SERVICE
	DOUBLE WM SERVICE
	SINGLE WM SERVICE
	DOUBLE RWM SERVICE
	SINGLE RWM SERVICE
	GATE VALVE
	WM OR RWM CROSS
	WM OR RWM TEE
	BLOW-OFF AND VALVE

MATCHLINE - SHEET C602



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CIVIL ENGINEERS
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PLAN AND PROFILE
FOR
VENEZIA TOWNHOMES
LAKE COUNTY
HOWEY-IN-THE-HILLS, FLORIDA

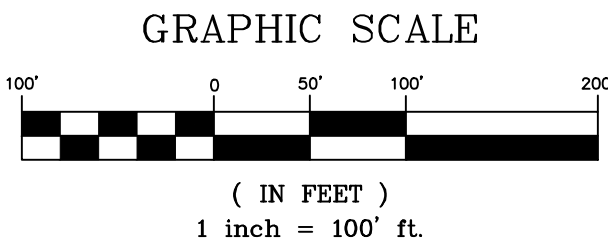
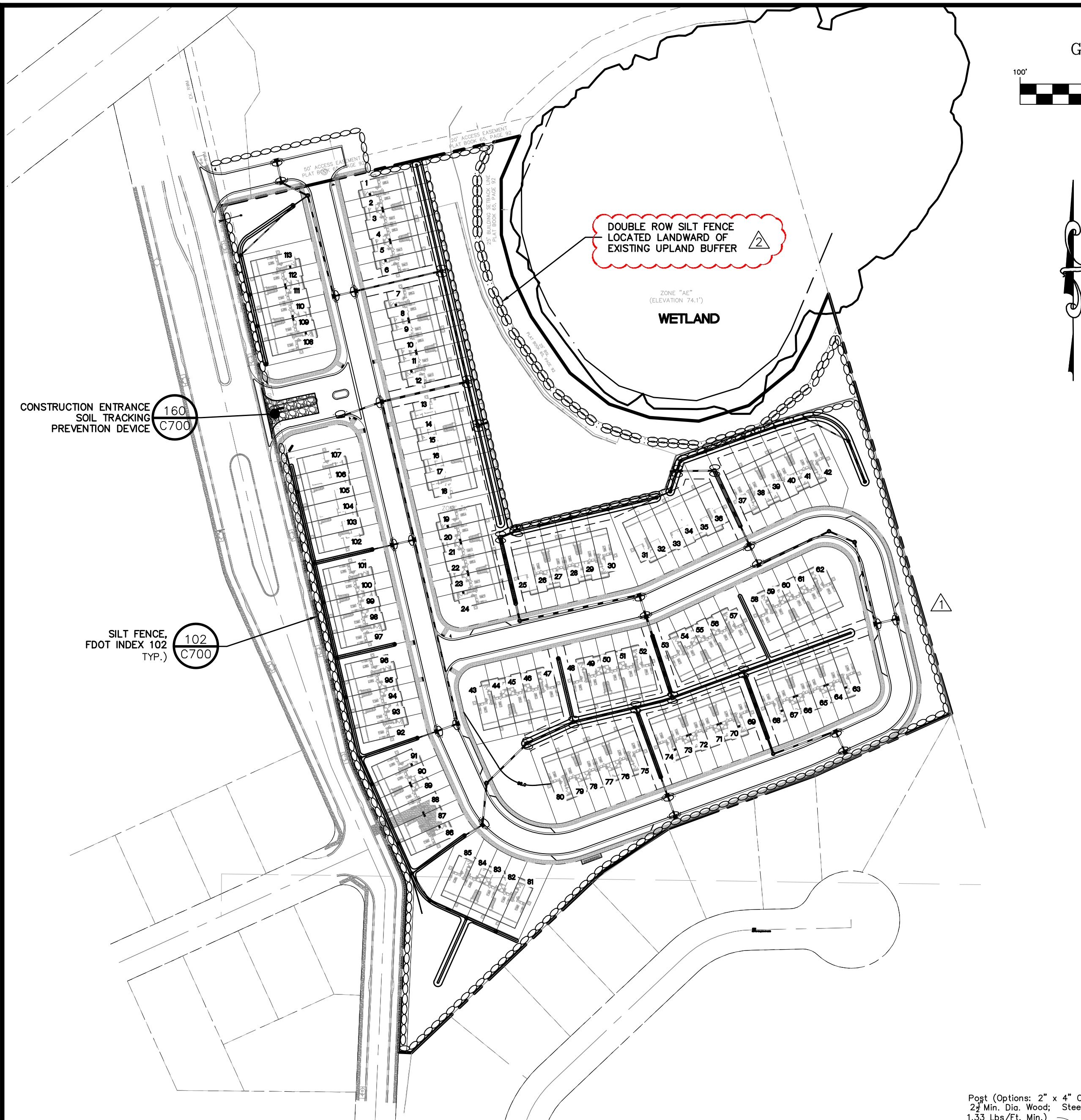
D. R. HORTON
10192 DOWDEN RD., SUITE 150
ORLANDO, FL 32832
(407) 850-5245

ENGINEER
BENJAMIN S. BECKHAM
No. 79452
STATE OF FLORIDA
DA TECHNICAL REGISTRATION NO. CA-0007723
CERTIFICATE OF AUTHORIZATION NO. CA-0007723

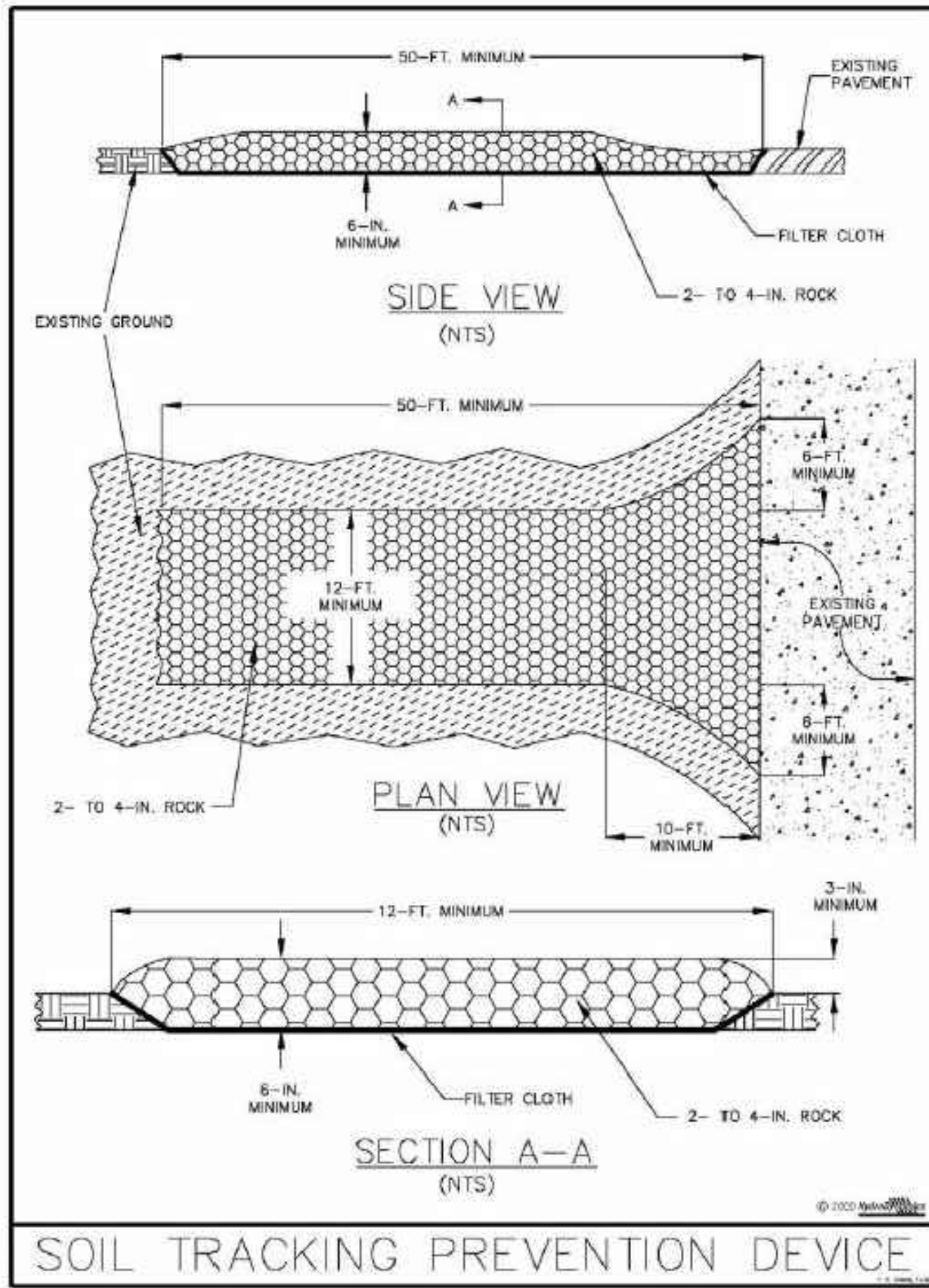
NO.	DATE	REVISIONS
1	12/20/21	REVISED PER TOWN OF HOWEY-IN-THE-HILLS COMMENTS
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C603



STATE OF FLORIDA E&S.C DESIGNER & REVIEWER MANUAL, LATEST EDITION: JULY 2013



STORMWATER POLLUTION PREVENTION NOTES:

1. THE CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT THAT ARE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS CONDITION WILL BE SATISFIED FOR THE TOTAL ANTICIPATED CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY GRADING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE SILT BARRIERS, TEMPORARY GRASSING, ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS SPECIFICATION.
2. NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
3. THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL BE CONTROLLED, SO THAT THIS OPERATION WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
4. INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN STORMWATER RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
5. AREAS OPENED BY CONSTRUCTION OPERATIONS THAT ARE NOT ANTICIPATED TO BE DRESSED OR RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER, DURING THE SEASON IN WHICH IT IS PLANTED. TEMPORARY SEEDING SHALL BE CONTROLLED SO AS TO NOT ALTER OR COMPETE WITH PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE 30 POUNDS PER ACRE.
6. THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
7. IF AFTER 14 DAYS, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED TO ESTABLISH THE DESIRED VEGETATION COVER.
8. ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.
9. ALL DISTURBED AREAS OUTSIDE THE EXCAVATION AND FILL LIMITS WILL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR CONDITION PRIOR TO CONSTRUCTION.
10. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL NEWLY PLANTED GRASSES OR VEGETATION AND RETENTION/DETENTION FACILITIES UNTIL THE WORK HAS BEEN ACCEPTED BY THE COUNTY.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF EMBANKMENTS AND SHALL REPLACE ANY PORTION, WHICH IN THE OPINION OF THE ENGINEER, HAS BECOME DISPLACED DUE TO EROSION OR DUE TO CARELESSNESS OR NEGLIGENCE ON THE PART OF THE CONTRACTOR.
12. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS CONTROLLING POLLUTION OF THE ENVIRONMENT. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO CONTROL EROSION AND SEDIMENT RUNOFF FROM THE SITE DURING CONSTRUCTION. SUCH METHODS SHALL BE IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.
13. ABSOLUTELY NO WORK WILL BE ALLOWED WITHIN ANY CONSERVATION AREA, BUFFER AREA, MITIGATION AREA OR DESIGNATED WETLAND AREA UNLESS SO SPECIFICALLY DESCRIBED BY THE PLANS AND GRANTED BY REASON OF PERMIT FROM THE GOVERNMENTAL ENTITY HAVING JURISDICTION OVER SAID AREA.
14. PRIOR TO CLEARING AND GRUBBING, THE LIMITS OF WETLANDS, BUFFERS WETLANDS, BUFFERS AND MITIGATION AREAS SHALL BE CLEARLY MARKED ALONG THE PROPOSED RIGHT OF WAY LINE TO PROTECT THESE AREAS FROM ENCROACHMENT FROM CONSTRUCTION ACTIVITIES.
15. ALL FILL EMBANKMENT AND GRADED AREAS SHALL BE PROTECTED AGAINST EROSION BY METHODS STATED IN SECTION 104, F.D.O.T. STANDARD SPECIFICATIONS FOR BRIDGE AND ROAD CONSTRUCTION. SIDE SLOPE MAY BE SEED AND MULCHED, PROVIDED THAT THE MULCH MATERIAL IS DISC HARROWED AND THE SIDE SLOPES ARE NEITHER GREATER THAN 3:1 NOR PART OF A DRAINAGE CONVEYANCE.
16. EROSION CONTROL AT ALL INLET DRAINAGE STRUCTURES DURING CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE CITY OF ORLANDO ENGINEERING STANDARDS MANUAL (5TH ED.) AND THE F.D.O.T. EROSION AND SEDIMENT CONTROL MANUAL (2013 ED.).
17. INSPECTIONS ON EROSION CONTROL MEASURES WILL BE PERFORMED BY THE CONTRACTOR ONCE PER WEEK AND WITHIN 24 HOURS AFTER 1/2 INCH OF RAINFALL. THE INSPECTIONS MUST BE LOGGED BY THE CONTRACTOR AND KEPT WITH THE APPROVED PLANS AND SWPPP.
18. GRAVEL CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO MINIMIZE EXPORT OF ONSITE DIRT. IF GRAVEL IS NOT ALLOWED, THE CONSTRUCTION ENTRANCES SHALL BE SWEEP PERIODICALLY AND LOGGED BY THE CONTRACTOR.
19. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PREVENT DUST FROM POLLUTING ADJACENT PROPERTIES.

EROSION CONTROL:

THE CONTRACTOR SHALL PERFORM EROSION CONTROL MEASURES IN ACCORDANCE WITH TO LAKE COUNTY AND THE S.J.R.W.M.D., DETAILS CONTAINED IN THE PLANS, THE FOLLOWING NOTES AND AS DIRECTED BY THE ENGINEER.

A. TEMPORARY EROSION CONTROL

1. STOCKPILING MATERIAL. NO EXCAVATING MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATERBODY OR STORMWATER COLLECTION FACILITY.
2. INLET PROTECTION - INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATERBODY OR STORMWATER COLLECTION FACILITY.
3. TEMPORARY SEEDING / STRIP SODDING - AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE STRIP-SODDED ALONG ALL DEDICATED ROWS. THIS WILL PREVENT SEDIMENT RUNOFF FROM INDIVIDUAL LOTS INTO THE ROW AND DRAINAGE SYSTEMS, AND WILL NOT LATER COMPETE WITH THE PERMANENT LOT GRASSING.
4. TEMPORARY SEEDING AND MULCHING - SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN NOTE 3 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA TO A DEPTH OF 4 INCHES.
5. TEMPORARY GRASSING - THE SEEDED OR THE SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
6. TEMPORARY REGRASSING - IF AFTER FOURTEEN DAYS, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATION COVER.
7. THE CONTRACTOR SHALL PLACE HAY BALES AROUND ALL EXISTING AND NEWLY CONSTRUCTED INLETS TO CONTROL EROSION DURING CONSTRUCTION.
8. MAINTENANCE - ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED. DICTONAL REQUIREMENTS.

B. PERMANENT EROSION CONTROL

THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON OFF-SITE FACILITIES. ALL STORMWATER DISCHARGE FROM THE PROJECT LIMITS SHALL BE ROUTED THROUGH DETENTION BASINS TO TRAP SUSPENDED SEDIMENTS AND DISCHARGE FACILITIES FROM THESE BASINS SHALL BE PROVIDED WITH A SKIMMER DEVICE TO TRAP FLOATABLE DEBRIS.

1. PERMANENT SEEDING - ALL AREAS WHICH HAVE BEEN DISTURBED BY THE CONSTRUCTION WILL, AS A MINIMUM, BE FERTILIZED AND SEEDED.
2. PERMANENT SEEDING AND MULCHING - SLOPES OF 6:1 TO 4:1 INCLUSIVE WILL BE MULCHED WITH A UNIFORM THICKNESS OF APPROXIMATELY TWO INCHES, LOOSE MEASURE, OF MULCH MATERIAL INCORPORATED INTO THE SOIL BY MIXING TO A DEPTH OF FOUR INCHES.
3. PERMANENT SODDING - ALL RETENTION/DETENTION BASINS SHALL BE SODDED WITHIN THEIR LIMITS. ALL EXPOSED AREAS WITHIN PUBLIC RIGHT-OF-WAYS WILL BE SOLID SODDED. OTHER AREAS WITH AREAS WITH SLOPES STEEPER THAN 4:1 WILL BE SODDED.
4. STRIP SODDING - STRIP SOD SHALL BE PLACED ADJACENT TO ALL CURBS, WALKS AND PAVEMENTS.
5. REGRASSING - ALL GRASSED AREAS WILL BE MAINTAINED TO ASSURE A GOOD STAND AND SUFFICIENT GROUND COVER TO MINIMIZE EROSION. IF, AFTER 60 DAYS AN ADEQUATE GROUND COVER HAS NOT BEEN ESTABLISHED, THE AREA WILL BE REGRASSED.
6. ADDITIONAL FERTILIZATION - GRASSED AREAS NOT ACCEPTED WITHIN 90 DAYS OF THEIR COMPLETION SHALL BE FERTILIZED.
7. FOR ADDITIONAL SODDING REQUIREMENTS, REFER TO THE LANDSCAPE PLANS.
8. FERTILIZATION TO COMPLY WITH LOCAL JURISDICTIONAL REQUIREMENTS.

CERTIFICATION FOR CONTRACTORS AND SUB-CONTRACTORS

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND TERMS AND CONDITIONS OF THE GENERIC STORMWATER PERMIT ISSUED PURSUANT TO SECTION 403.0885, F.S., THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

NAME: SIGNATURE: DATE: ADDRESS: TELEPHONE:

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND TERMS AND CONDITIONS OF THE GENERIC STORMWATER PERMIT ISSUED PURSUANT TO SECTION 403.0885, F.S., THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

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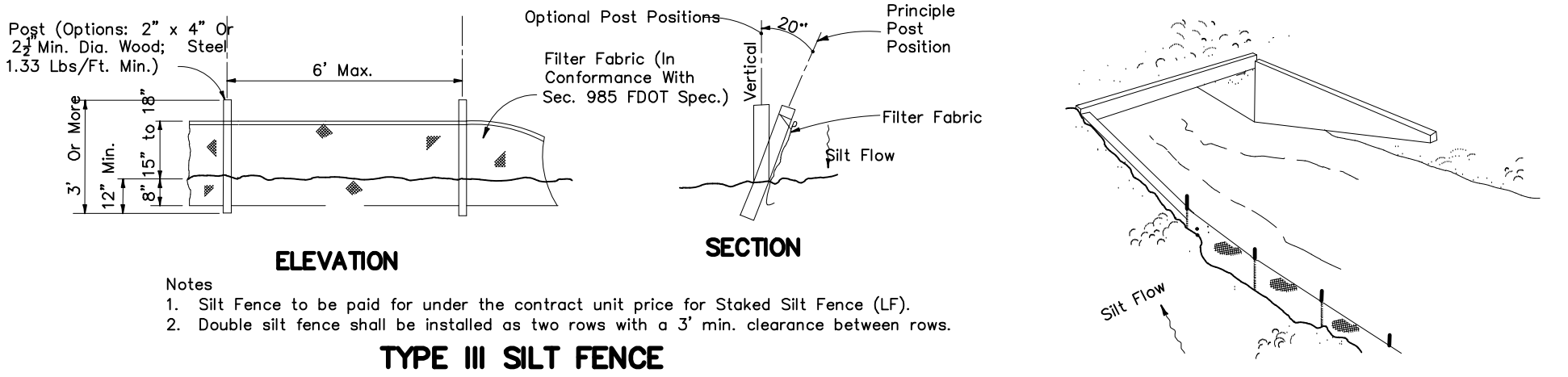
NAME: SIGNATURE: DATE: ADDRESS: TELEPHONE:

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND TERMS AND CONDITIONS OF THE GENERIC STORMWATER PERMIT ISSUED PURSUANT TO SECTION 403.0885, F.S., THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

NAME: SIGNATURE: DATE: ADDRESS: TELEPHONE:

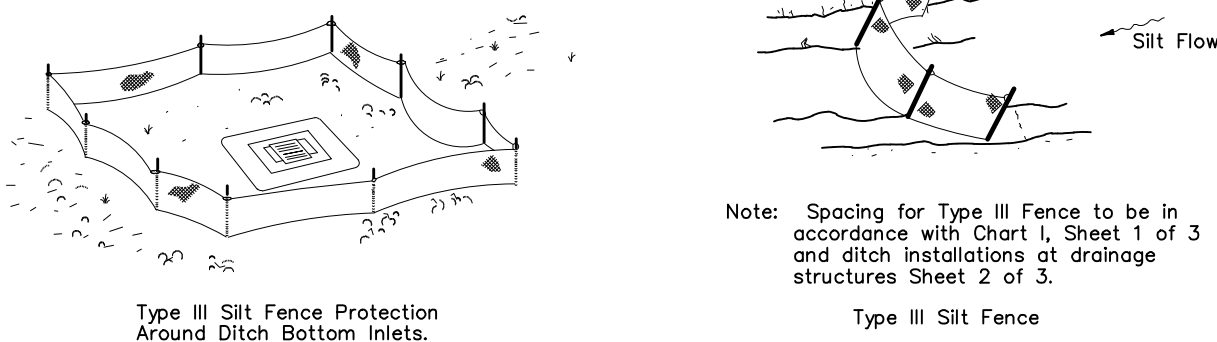
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND TERMS AND CONDITIONS OF THE GENERIC STORMWATER PERMIT ISSUED PURSUANT TO SECTION 403.0885, F.S., THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

NAME: SIGNATURE: DATE: ADDRESS: TELEPHONE:



- Notes
1. Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).
 2. Double silt fence shall be installed as two rows with a 3" min. clearance between rows.

TYPE III SILT FENCE



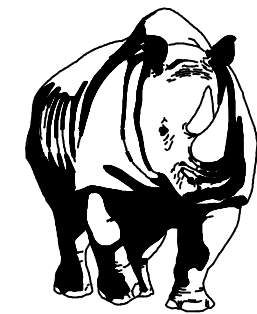
Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS

102 SILT FENCE APPLICATIONS - FDOT INDEX 102 N.T.S.

DEWATERING NOTE:

CONTRACTOR SHALL ACQUIRE A DEWATERING PERMIT THROUGH SJWRMD IF NECESSARY.



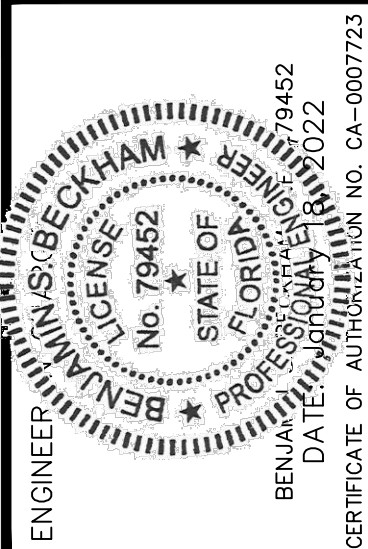
MADDEN
MOORHEAD & STOKES, LLC
CIVIL ENGINEERS

431 E. Horatio Avenue
Suite 260
Maitland, Florida 32751
(407) 629-8330

EROSION CONTROL PLAN
FOR
VENEZIA TOWNHOMES
LAKE COUNTY
HOWEY-IN-THE-HILLS, FLORIDA

D. R. HORTON

10192 DOWNEY RD., SUITE 150
ORLANDO, FL 32832
(407) 850-5245



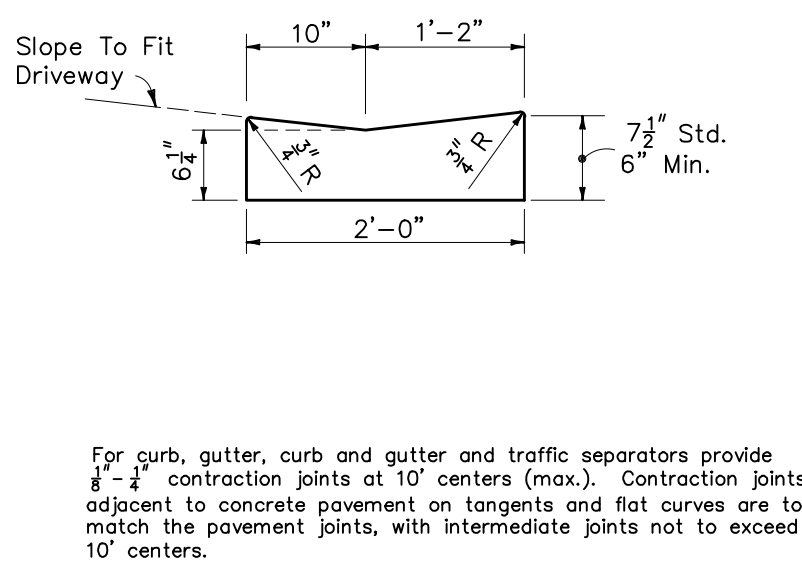
NO.	DATE	REVISIONS
1	12/20/21	REVISED PER TOWN OF HOWEY-IN-THE-HILLS COMMENTS
2	01/17/22	REVISED PER SJWRMD COMMENT
3	01/17/22	REVISED PER SJWRMD COMMENT
4	01/17/22	REVISED PER SJWRMD COMMENT
5	01/17/22	REVISED PER SJWRMD COMMENT
6	01/17/22	REVISED PER SJWRMD COMMENT
7	01/17/22	REVISED PER SJWRMD COMMENT
8	01/17/22	REVISED PER SJWRMD COMMENT
9	01/17/22	REVISED PER SJWRMD COMMENT
10	01/17/22	REVISED PER SJWRMD COMMENT
11	01/17/22	REVISED PER SJWRMD COMMENT

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C700

300V VALLEY GUTTER DETAIL
- N.T.S.

△ 1 300M MIAMI CURB
- N.T.S.



△ 2 907 CONCRETE WALK
- N.T.S.

904	CONC WALK & CURB
-	N.T.S.

2 300R CONCRETE RIBBON CURB
- N.T.S.


98.5 YARD DRAIN DETAIL

300A TYPE A CURB
- N.T.S.

304	RAMPS FOR PEDESTRIAN TRAFFIC
-	N.T.S.

212 STOP SIGN, BAR AND CROSSWALK
- N.T.S.

- 1 - 8" - 30" GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE 8" - 15" BRONZE GRATES
- 2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- 3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
- 4 - GRATES SHALL MEET H-10 LOAD RATING FOR 12" - 24" PCD
- 5 - GRATES SHALL MEET H-20 LOAD RATING FOR 30" PCD & 12" - 30" STD & SOLID
- 6 - ALL BRONZE GRATES, DROP IN GRATES, & 8" & 10" PCD STD GRATES & SOLID COVERS ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY

DRAWN BY EBC		MATERIAL		 3130 VERONA AVE BAYVIEW, CA 94061 FAX (770) 932-2443 FAX (770) 932-2490 www.nyloplast-usa.com	
DATE 1-23-06		PROJECT NO./NAME		Nyloplast TITLE INLINE DRAIN WITH STANDARD GRATE QUICK SECT INSTALLATION DETAIL	
APPD BY CJA		DATE 1-23-06		DWG NO. 7003-110-022 REV. D	
DWG SIZE A		SCALE 1:40 SHEET 1 OF 1			

△ 1 C SINGLE-SIDED PARKING SECTION
— N.I.S.

DOUBLE-SIDED PARKING SECTION

△ 1 E TYPICAL ROAD SECTION
— N.I.S.

TYPE E
Straight Bars 2" $\frac{3}{8}$ "
Reticuline Bars 11" \times 3"

4'-4 $\frac{11}{16}$ "

21 Spaces $\frac{1}{8}$ "

22 Bars $\frac{1}{8}$ "

3'-4"

Bond

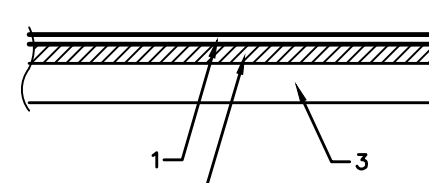
Bond

NOTE: Alt. B Structure Bottom Only. See Detail No. 200

STRUCTURE BOTTOM FOR INLET TYPE E

232E F.D.O.T. TYPE E INLET
- N.T.S.

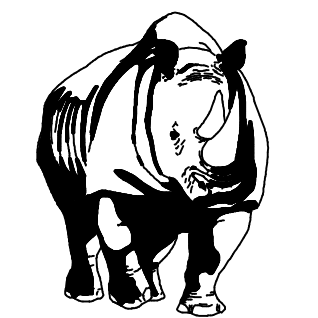




- 1 1.5" TYPE ASPHALTIC CONCRETE SURFACE
COURSE SP-9.5 (2 LIFTS)
- 2 6" CRUSHED CONCRETE BASE COMPACTED TO 98%
MODIFIED PROCTOR MAX DRY DENSITY (TYP.) LBR
100.
- 3 12" STABILIZED SUBGRADE, COMPACTED TO 95%
MODIFIED PROCTOR MAX DENSITY PER AASHTO
T-180, ASTM D-1557 (TYP.)

TYP. TYPICAL PAVEMENT SECTION
— N.I.S.

ENTRANCE SECTION
N.T.S.

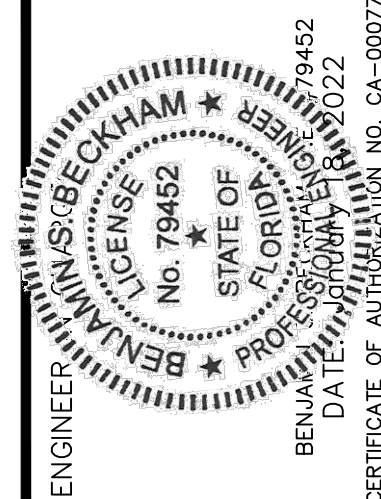


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CONSTRUCTION DETAILS
FOR
VENEZIA TOWNHOMES

D. R. HORTON
10192 DOWDEN RD., SUITE 150
ORLANDO, FL 32832



	12/10/21	REVISED PER TOWN OF HOWEY-IN-THE-HILLS COMMENTS
1	01/19/22	REVISED PER TOWN OF HOWEY-IN-THE-HILLS COMMENTS
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JOB # _____ 2105
DATE: _____ 10/22/202
SCALE: _____ N.T.S.
DESIGNED BY: _____ BSI
DRAWN BY: _____ JAI
APPROVED BY: _____ BSI

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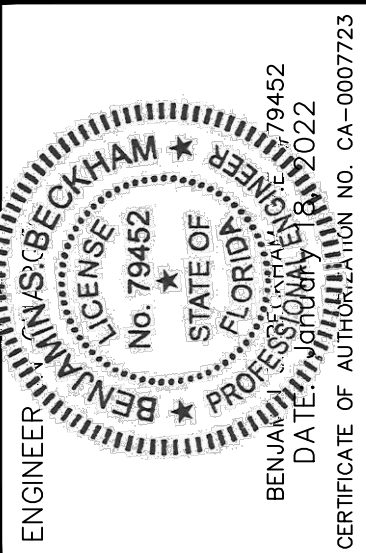
CONSTRUCTION DETAILS

FOR

VENEZIA TOWNHOMES

LAKE COUNTY HOWEY-IN-THE-HILLS, FLORIDA

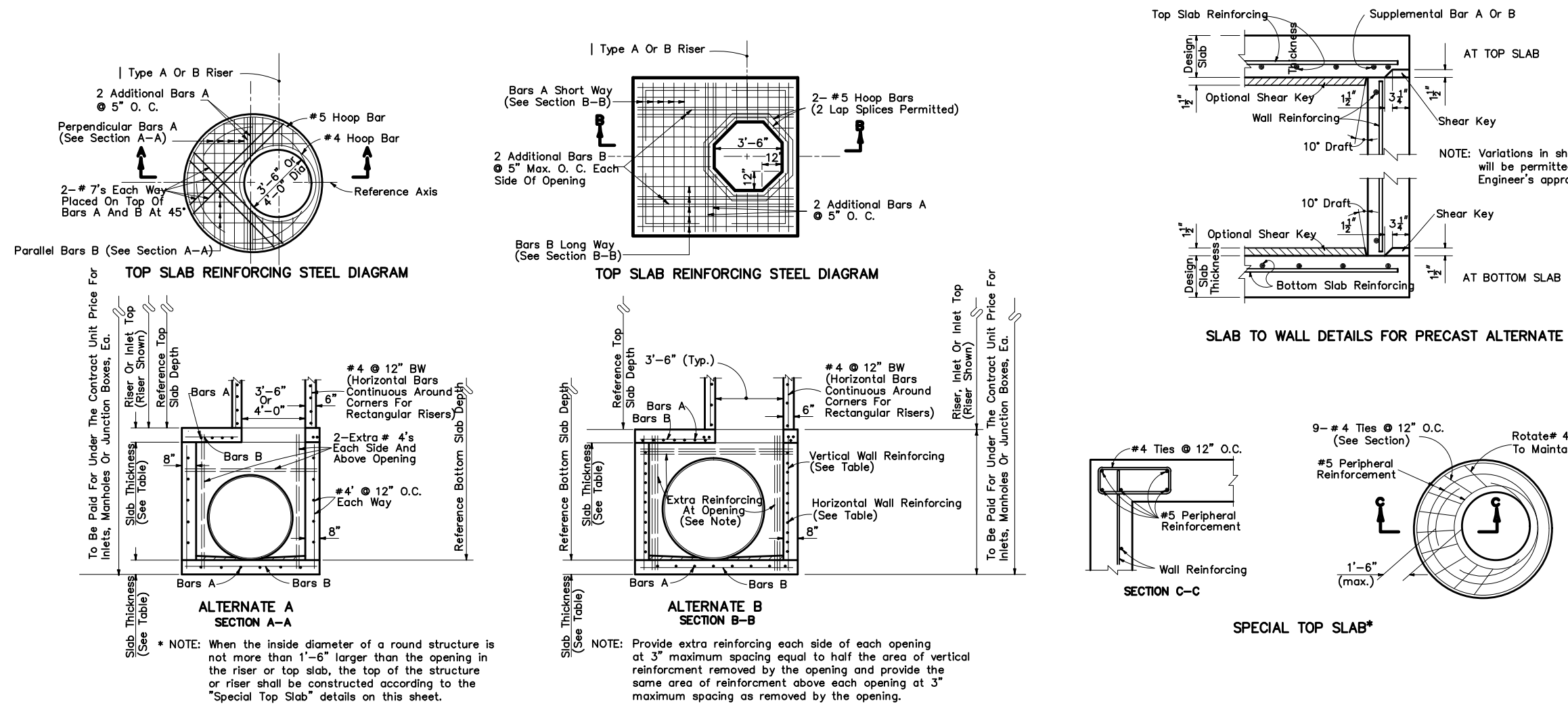
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(407) 850-5245



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	REVISIONS

JOB # _____ 21052
DATE: _____ 10/22/2021
SCALE: _____ N.T.S.
DESIGNED BY: _____ BSB
DRAWN BY: _____ JAS
APPROVED BY: _____ BSB

C902



- | | |
|---|--|
| 1. Standard structure sections 4'-0" diameter and smaller (Alt. A) and 6'-0" square (Alt. B) are designated Type I. Larger standard structure bottoms (Alt. C) are designated Type II. All structures are permitted for all standard concrete classes. | 10. The corner fillets shown are necessary for rectangular structures used with circular structures. Fillets shall be required in the corners of the bottom slabs of the Alt. B riser when used with the Alt. A box. Each fillet shall be reinforced with #2 - 5 bars. |
| 2. Walls of circular structures (Alternate A) constructed in place may be of non-reinforced concrete or brick reinforced concrete. Precast and rectangular structures (Alternate B) shall be constructed of reinforced concrete only. | 11. Inlet troughs, riser or manhole tops shall be secured to structures as shown on page No. 201. |
| 3. All structures and reinforcement are for either reinforced cast-in-place or precast concrete units except that precast circular units may be furnished with reinforcement in accordance with the A.C.I. Standard No. C-26, Class -----, B.M. modified where the elliptical section is shown. | 12. Structures with depths over 14' are to be checked for floatation by designer of project drawings. |
| 4. Top floor slabs shall be reinforced and reinforcement are for precast and cast in place concrete. Top and floor slabs shall be of Class ----- concrete in accordance with the A.C.I. Standard No. C-26, Class -----, B.M. modified where the elliptical section is shown. | 13. Units smaller than specified standard should be substituted at the contractor's option when these units will not cause or increase the severity of utility conflicts. Such larger units shall be furnished at the contractor's option to the Department cost. Alternate A units cannot replace Alternate B units without approval of the Engineer. This note applies to this index only. |
| 5. All reinforcement shall be A.S.T.M. A615, Grade 60 or 65 KSI welded wire fabric, either smooth or deformed. | 14. Inlet troughs and manhole and junction box tops, for frames and covers, and, for supplementary details see index No. 201. |

SHORT-WAY		LONG-WAY	
SLAB DEPTH	SCHEDULE	SLAB DEPTH	SCHEDULE
SZS: 3'-0" UNLIMITED			
2'-0" - 2'-9"	B	2'-0" - 4'-0"	B
2'-9" - 4'-0"	C		
SZS: 4'-0" UNLIMITED			
2'-0" - 1'-9"	B	2'-0" - 3'-4"	B
1'-9" - 2'-9"	C	3'-4" - 4'-0"	C
2'-9" - 4'-0"	D		
SZS: 5'-0"			
2'-0" - 3'-3"	C	2'-0" - 3'-3"	C
3'-3" - 3'-8"	B	3'-3" - 3'-8"	B
3'-8" - 2'-8"	C	3'-8" - 2'-8"	C
2'-8" - 3'-8"	D	2'-8" - 3'-8"	D
3'-8" - 4'-0"	F	3'-8" - 4'-0"	F
SZS: 5'-6"			
2'-0" - 3'-3"	C	2'-0" - 3'-3"	C
3'-3" - 1'-6"	B	3'-3" - 2'-0"	B
1'-6" - 2'-4"	C	2'-0" - 2'-9"	C
2'-4" - 3'-4"	D	2'-9" - 4'-0"	D
3'-4" - 4'-0"	F		
SZS: 5'-11"			
2'-0" - 3'-3"	C	2'-0" - 3'-3"	C
3'-3" - 1'-4"	B	3'-3" - 3'-3"	B
1'-4" - 2'-1"	C	2'-2" - 2'-5"	C
2'-1" - 3'-0"	D	3'-3" - 4'-0"	D
3'-0" - 4'-0"	F		
SZS: 5'-11"			
2'-0" - 3'-3"	C	2'-0" - 3'-0"	C
3'-3" - 8"	B	3'-0" - 4'-0"	B
8" - 1'-7"	C		
1'-7" - 2'-5"	D		
2'-5" - 4'-0"	F		
SZS: 5'-11"			
2'-0" - 3'-3"	C	2'-0" - 3'-2"	C
3'-3" - 8"	B	3'-2" - 4'-0"	B
8" - 1'-7"	C		
1'-7" - 2'-5"	D		
2'-5" - 4'-0"	F		

SHORT-WAY		LONG-WAY	
SUB DEPTH	SCHEDULE	SUB DEPTH	SCHEDULE
S22: 616		S22: 616	
2.05 < 3	A	2.05 < 3	D
3 < 4	B	3 < 4	C
4 < 14	C	4 < 14	A
14 < 21	C	14 < 21	C
21 < 28	F	21 < 28	F
28 < 40	F	28 < 40	F
S22: 617		S22: 617	
2.05 < 3	A	2.05 < 3	D
3 < 4	C	3 < 4	C
4 < 12	B	4 < 15	B
12 < 19	C	15 < 21	A
19 < 26	B	21 < 30	D
26 < 40	F	30 < 40	F
S22: 618		S22: 618	
2.05 < 3	A	2.05 < 3	D
3 < 4	C	3 < 4	C
4 < 7	B	4 < 16	B
7 < 16	C	16 < 23	A
16 < 23	F	23 < 30	D
23 < 40	F	30 < 40	F
S22: 619		S22: 619	
2.05 < 3	D	2.05 < 3	D
3 < 15	C	3 < 15	C
15 < 21	D	15 < 18	B
21 < 27	E	18 < 27	C
27 < 40	G	27 < 37	D
		37 < 40	E
S22: 717		S22: 717	
2.05 < 3	D	2.05 < 3	E
3 < 4	C	3 < 4	D
4 < 16	D	4 < 16	D
16 < 22	E	16 < 22	E
22 < 28	E	22 < 28	E
28 < 40	G	28 < 40	G
S22: 718		S22: 718	
2.05 < 3	D	2.05 < 3	E
3 < 4	C	3 < 4	C
4 < 15	C	4 < 17	C
15 < 21	D	17 < 29	D
21 < 27	E	23 < 29	E
27 < 40	G	29 < 40	G
S22: 719		S22: 719	
2.05 < 3	D	2.05 < 3	E
3 < 4	C	3 < 4	C
4 < 12	C	4 < 18	D
12 < 18	D	18 < 24	E
18 < 24	E	24 < 32	F
24 < 40	G	32 < 40	G

SHORT-WAY			LONG-WAY		
S LAB DEPTH	SCHEDULE		S LAB DEPTH	SCHEDULE	
SIZE: 6'0"			SIZE: 6'0"		
2.05 < 3'	D		2.05 < 3'	D	
3.0 < 4'	B		3.0 < 4'	C	
4.0 < 5'	B		4.0 < 5'	B	
5.0 < 17'	C		5.0 < 17'	C	
17.0 < 31'	D		17.0 < 31'	D	
31'-40'	G		31'-40'	G	
SIZE: 6'10"			SIZE: 6'10"		
2.05 < 3'	D		2.05 < 3'	E	
3.0 < 4'	C		3.0 < 4'	C	
4.0 < 16'	B		4.0 < 16'	C	
16.0 < 22'	C		16.0 < 25'	D	
22.0 < 29'	F		25.0 < 32'	F	
29'-40'	G		32'-40'	G	
SIZE: 6'2"			SIZE: 6'2"		
2.05 < 3'	F		2.05 < 3'	F	
3.0 < 4'	C		3.0 < 4'	C	
4.0 < 20'	D		4.0 < 20'	D	
20.0 < 26'	E		20.0 < 26'	E	
26'-40'	G		26'-40'	G	

4. DESIGNS - RECTANGULAR STRUCTURES

VERTICAL REINFORCING		HORIZONTAL REINFORCING	
WALL DEPTH	SCHEDULE	WALL DEPTH	SCHEDULE
SIZE: 3'-0"		SIZE: 3'-0"	
2.117'-4.0'	A	2.117'-4.0'	B
SIZE: 4'-0"		SIZE: 4'-0"	
2.117'-4.0'	A	2.117'-4.0'	B
SIZE: 5'-0"		SIZE: 5'-0"	
2.117'-4.0'	A	2.117'-C 33'	B
		33'-40'	C
SIZE: 6'-0"		SIZE: 6'-0"	
2.117'-4.0'	A	2.117'-C 32'	B
		32'-40'	C
SIZE: 7'-0"		SIZE: 7'-0"	
2.117'-4.0'	A	2.117'-C 18'	B
		18'-C 25'	C
		25'-40'	D
SIZE: 8'-0"		SIZE: 8'-0"	
2.117'-4.0'	A	2.117'-C 13'	B

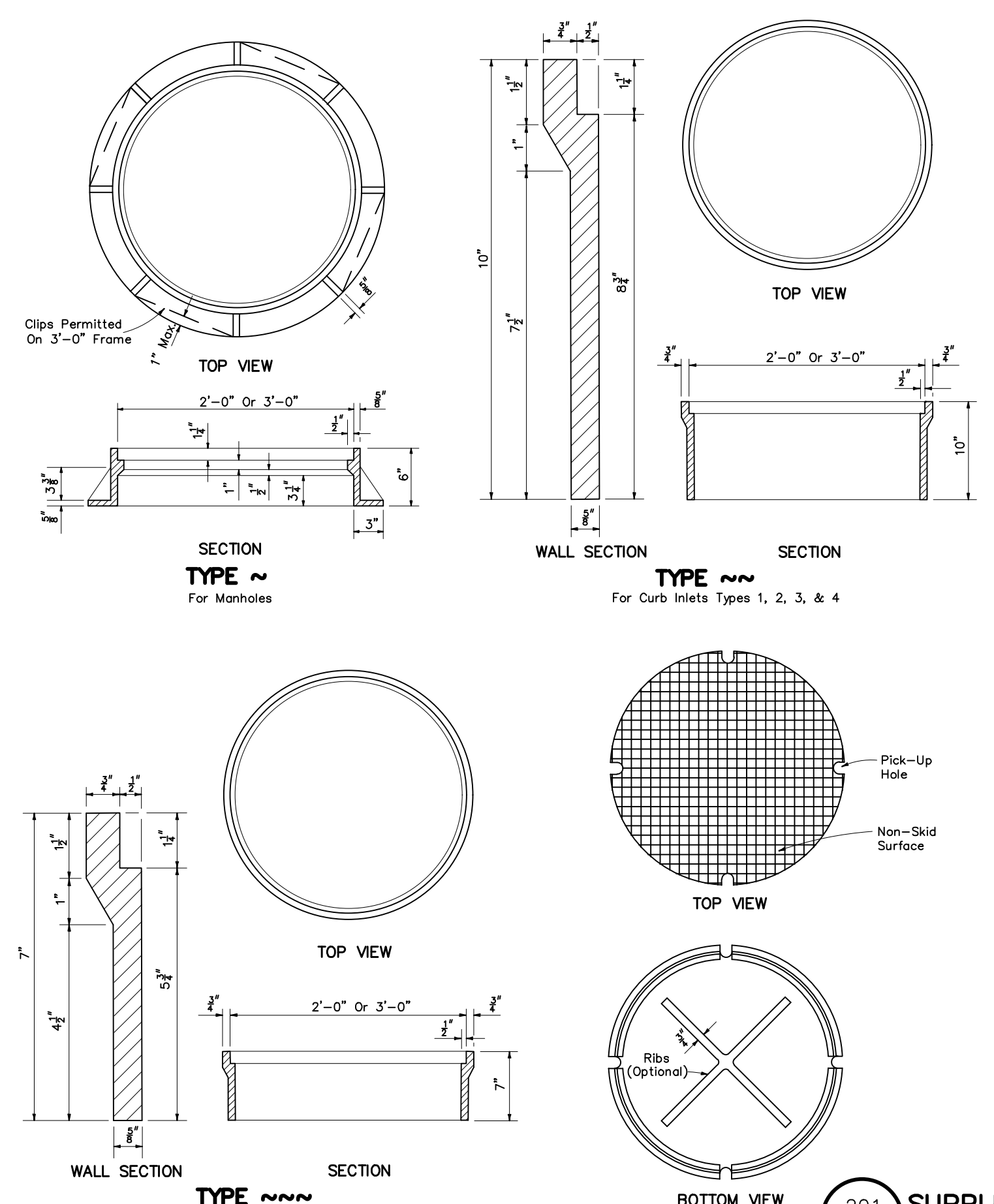
SLAB DESIGNS – ROUND STRUCTURE		REINFORCING (2 WAYS) SCHEDULE
DEPTH	THICKNESS	
5'-0" - 4'-0"	5/32" 3"-6"	C
5'-0" - 4'-0"	5/32" 4'-0"	C
5'-0" - 4'-0"	5/32" 5'-0"	C
		D
5'-0" - 4'-0"	5/32" 6'-0"	B
		C
		D
		E
		F
		G
5'-0" - 4'-0"	5/32" 6'-0"	C
		D
		E
		F
		G
5'-0" - 4'-0"	5/32" 10'-0"	C
		D
		E
		F
		G
5'-0" - 4'-0"	5/32" 12'-0"	C
		D
		E
		F
		G

DESIGNS – RECTANGULAR STRUCTURE			
VERTICAL REINFORCING		HORIZONTAL REINFORCING	
WALL DEPTH	SCHEDULE	WALL DEPTH	SCHEDULE
SIZE 3'-0"			
≥1.17'-40"	A	≥1.17'-40"	B
SIZE 4'-0"			
≥1.17'-40"	A	≥1.17'-40"	B
SIZE 5'-0"			
≥1.17'-40"	A	≥1.17'-40"	B
≥1.17'-40"	A	≥1.17'-40"	C
SIZE 6'-0"			
≥1.17'-40"	A	≥1.17'-40"	B
≥1.17'-40"	A	≥1.17'-40"	C
SIZE 7'-0"			
≥1.17'-40"	A	≥1.17'-40"	B
≥1.17'-40"	A	≥1.17'-40"	C
SIZE 8'-0"			
≥1.17'-40"	A	≥1.17'-40"	B
≥1.17'-40"	A	≥1.17'-40"	C
≥1.17'-40"	A	≥1.17'-40"	D
SIZE 9'-0"			
≥1.17'-40"	A	≥1.17'-40"	B
≥1.17'-40"	A	≥1.17'-40"	C
≥1.17'-40"	A	≥1.17'-40"	D
≥1.17'-40"	A	≥1.17'-40"	E
≥1.17'-40"	A	≥1.17'-40"	F
≥1.17'-40"	A	≥1.17'-40"	G
≥1.17'-40"	A	≥1.17'-40"	H

REINFORCING SCHEDULE	
SCHEDULE	GRADE 60 STEEL OR 65 KSI (WIRE FABRIC) in ² /ft
A	0.20
B	0.24
C	0.37
D	0.53
E	0.73
F	1.06
G	1.45

- ### GENERAL NOTES
1. Slab reinforcement is appropriate for top, intermediate, and bottom slabs.
 2. Slab depth is measured from finished grade to top of slab.
 3. Wall design depth is measured to the top of the bottom slab for boxes and to the top of the intermediate slab for risers.
 4. Wall height is the distance between top of lower slab to bottom of upper slab.

200 STRUCTURE BOTTOMS TYPE J AND P
- N.T.S.

[illegible]

NOTES (TOPS)

- Manhole top Type 7 slabs shall be of Class ≥ 40 concrete. Concrete as specified in ASTM C-475 may be used for precast units; see General Note No. 3.
- Manhole top Type 7 slabs may be of cast-in-place or precast construction. The optional key is for precast tops and in lieu of dowels. Forme and slab openings shall be omitted when top is used over a junction box. Formes can be adjusted with from one to six circles of concrete.
- Manhole top Type 8 may be of cast-in-place or precast concrete construction or brick construction. For concrete construction, the concrete and steel reinforcement shall be the same as the supporting wall unit. An optional concrete may be used.
- Manhole tops shall be secured to structures by optional construction details shown on Slab.

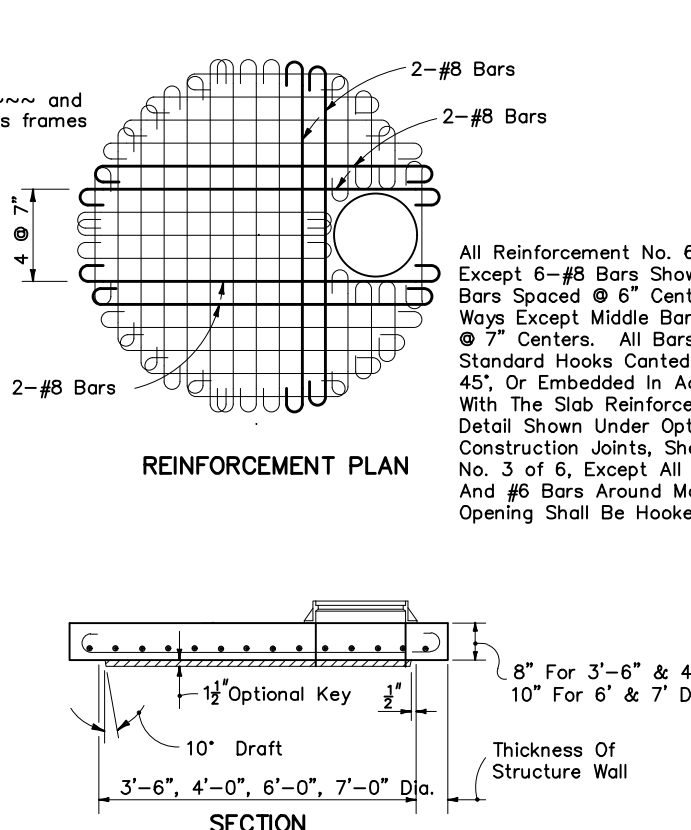
REINFORCEMENT PLAN

45° or Embedded in Wall
With the Slab Reinforced
Detail Shown Under Option
Construction Joints, Slab
No. 3 of 3, Except All
and #6 Bars Around Mud
Opening Shall Be Hooped

8" For 3" & 4" &
10" For 6" & 7" D

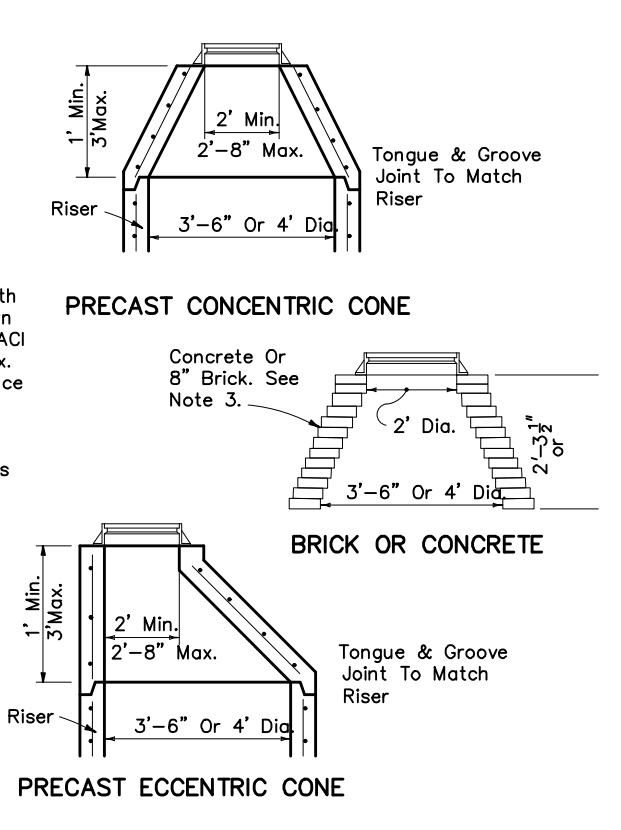
Thickness of
Structure Wall

SECTION



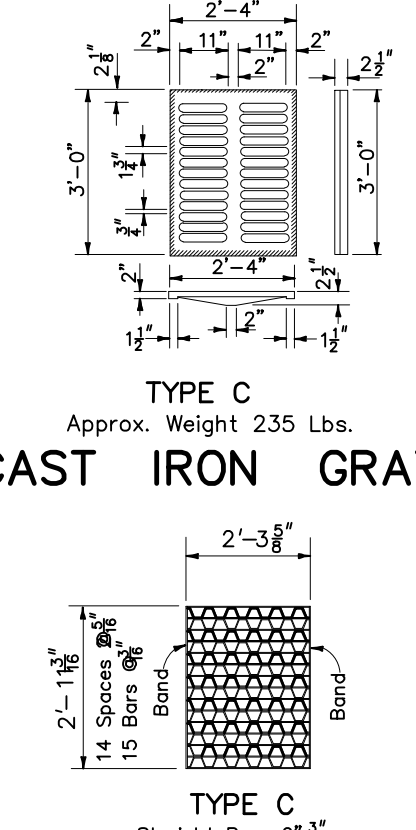
MANHOLE TOPS

TOPS

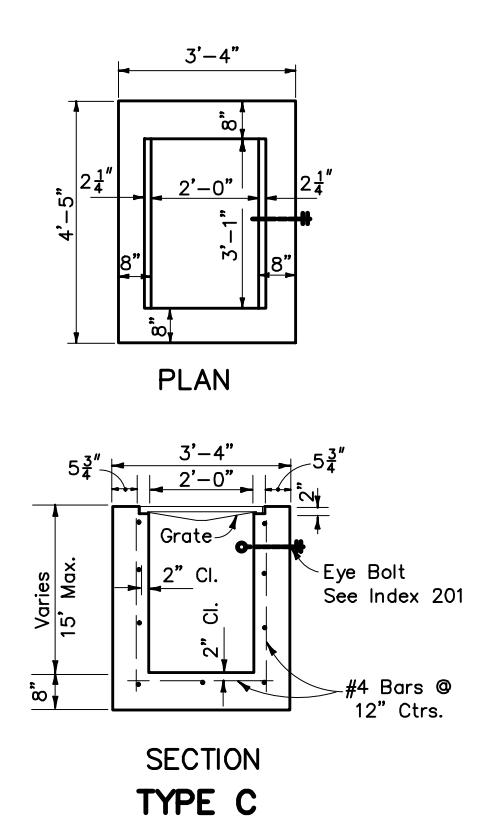


HALF SECTION CAST IRON GRATES

NOTE ALL INLET GRATES SHALL BE CHAINED DOWN



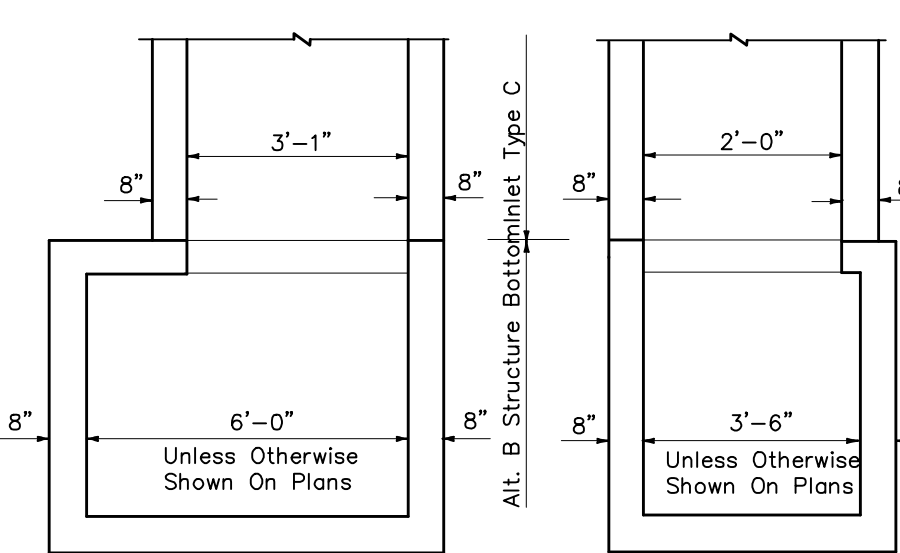
STEEL GRATE



Recommended Maximum Pipe Size
2'-0" Wall-18" Pipe
3'-1" Wall-24" Pipe

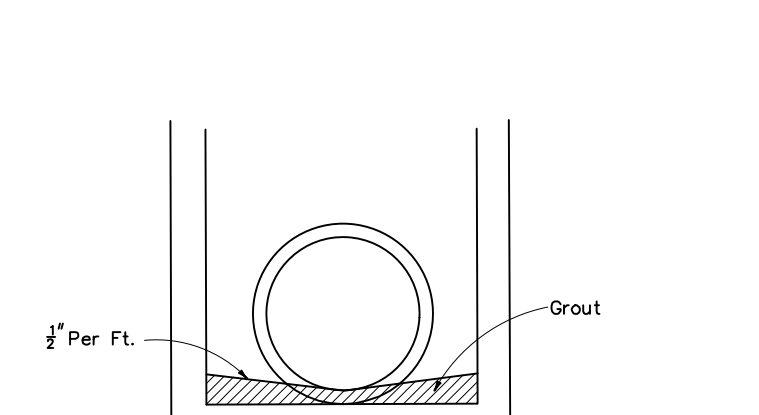
GENERAL NOTES

1. These Inlets are suitable for bicycle and pedestrian areas and are to be used in ditches, medians, and other areas where heavy commercial traffic loadings but are not to be placed in areas subject to any heavy wheel loads.
2. Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slotted inlets located within roadway clear zones and in areas accessible to pedestrians shall have traversable slots. The traversable slot modification is not subject to Inlet Type H. Slots may be constructed at either or both ends as shown on plans.
3. Steel grates are to be used on all inlets where bicycle traffic or steel grates may be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without traversable slots. Bicycle traffic not anticipated. Either cast iron or steel grates may be used on all inlets with non-traversable slots. Subject to the selection described above, when Alternate G grate is specified in the plans, either the steel grate, the cast iron traversable grate, or the cast iron grate may be used, unless the plans stipulate the particular type.
4. Recommended maximum pipe sizes shown are for concrete pipe. Pipe sizes larger than those recommended must be checked for fit.
5. All exposed corners and edges of concrete are to be chamfered.
6. Pavement to be used on inlets without slots and inlets with non-traversable slots only when called for in the plans; but required on all traversable slot inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.
7. Traversable slots constructed in existing inlets shall be paid for as inlets partial, and shall include the cost for slot openings, paving and any required replacement grates.
8. Soddling to be used on all inlets not located in paved areas and paid for under contract unit price for Soddling SY.
9. For supplementary details see Detail No. 201.
10. When used in traffic areas use four sided bearing grate. U.S. Foundry#450 or equal.



NOTE: Alt. B Structure Bottom Only. See Detail No. 200

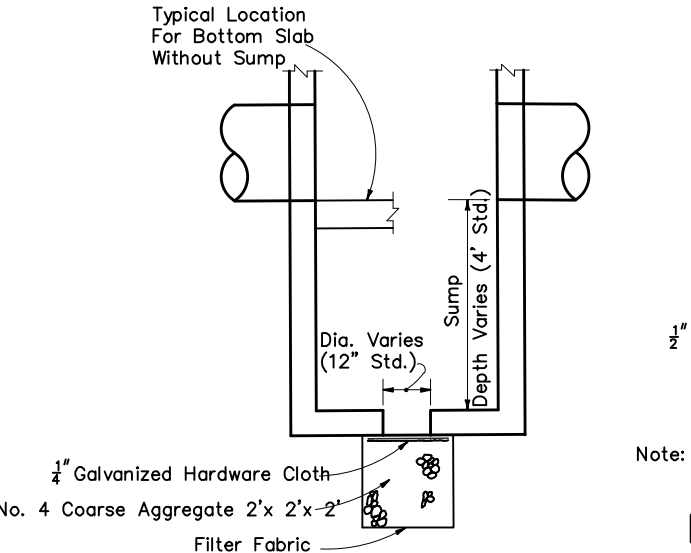
STRUCTURE BOTTOM FOR INLETS TYPE C



Note: Grout to consist of 3:1 Sand-Cement Mixture or any Class Concrete.

FOR ALL STRUCTURES UNLESS EXCLUDED BY SPECIAL DETAIL

DRAINAGE STRUCTURE INVERT



NOTE: Sump bottom appropriate for all manhole and inlet types.
Cost for sump bottom to be included in the contract unit price for inlet or manhole.

SUMP BOTTOM

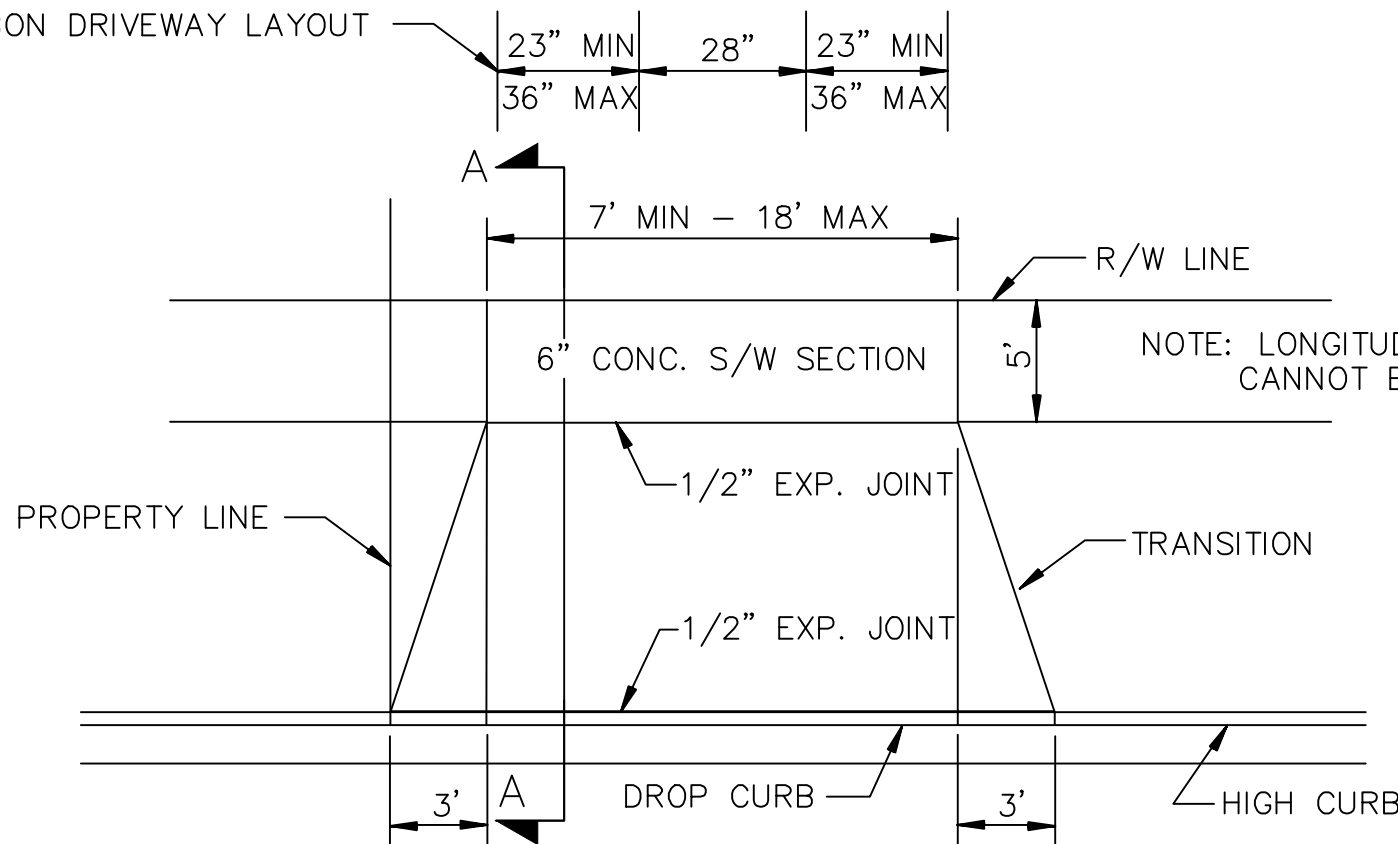
NOTE ALL INLET GRATES SHALL BE CHAINED DOWN

SUPPLEMENTARY DETAILS FOR MANHOLES AND INLETS

NOTE:
A 4' X 4' CONCRETE PAD 8" THICK SHALL BE INSTALLED AROUND ALL MANHOLE RIMS
LOCATED JUST BELOW THE ASPHALT SURFACE

232C F.D.O.T. TYPE C INLET
- N.T.S.

RIBBON DRIVEWAY LAYOUT

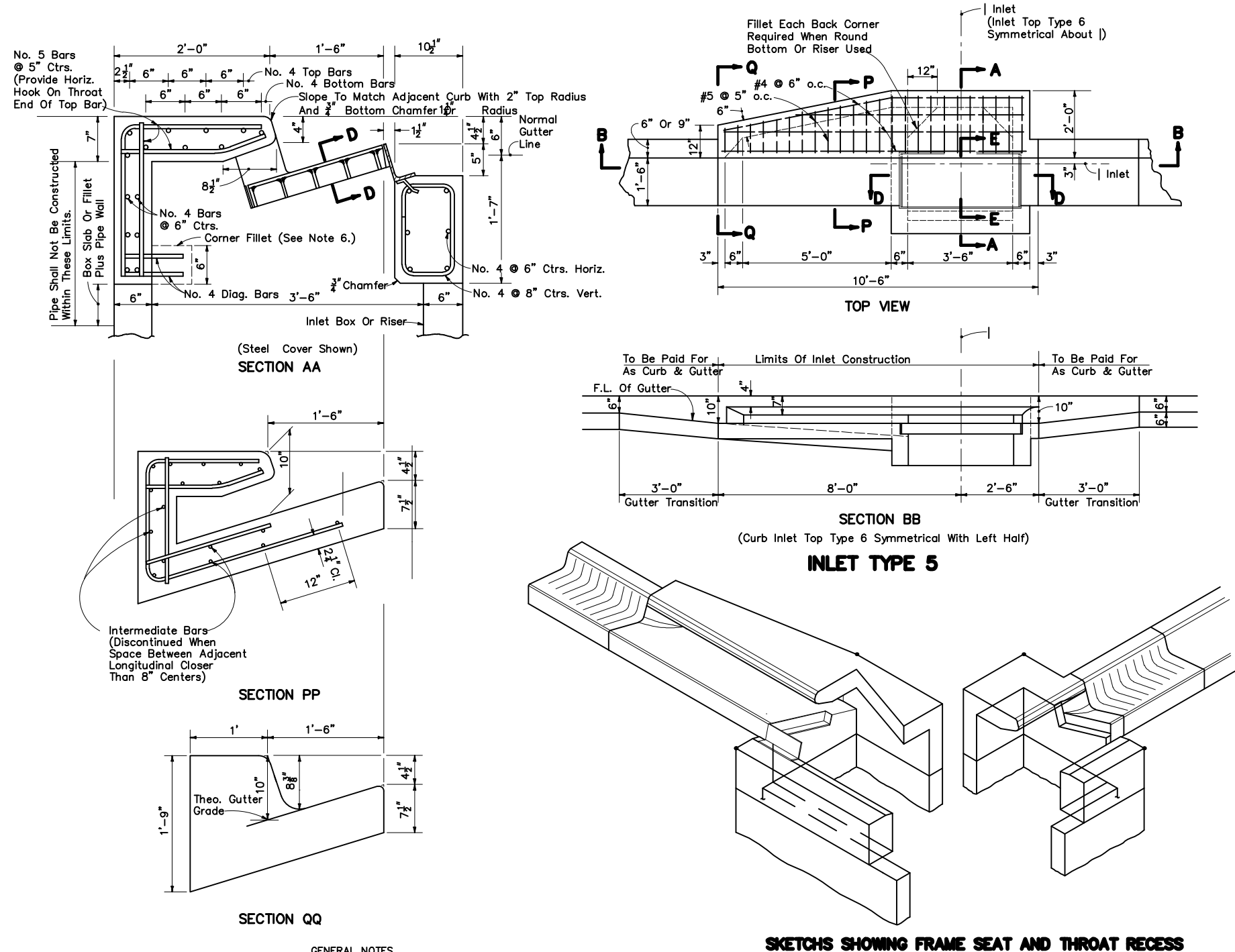


DRV
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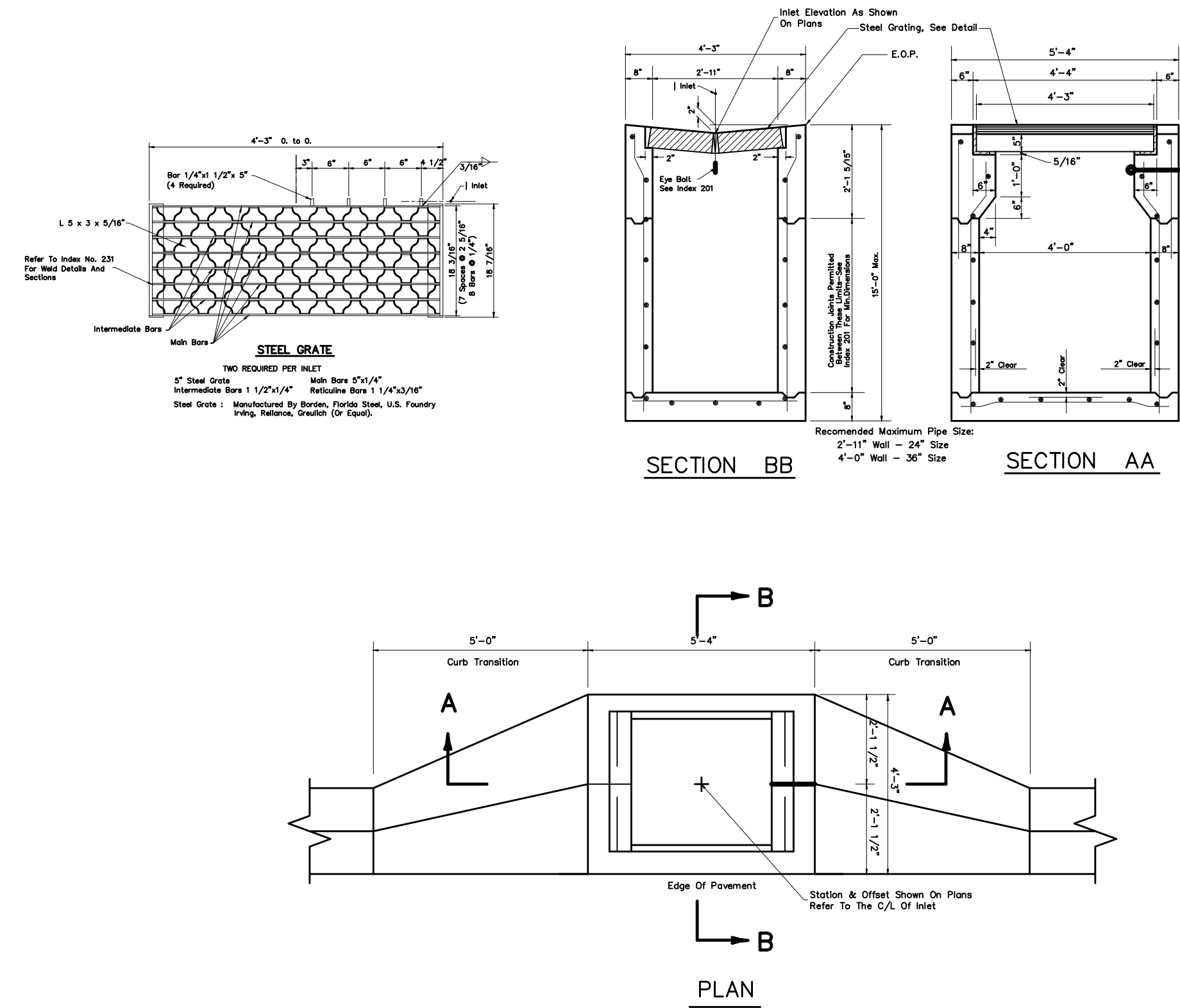
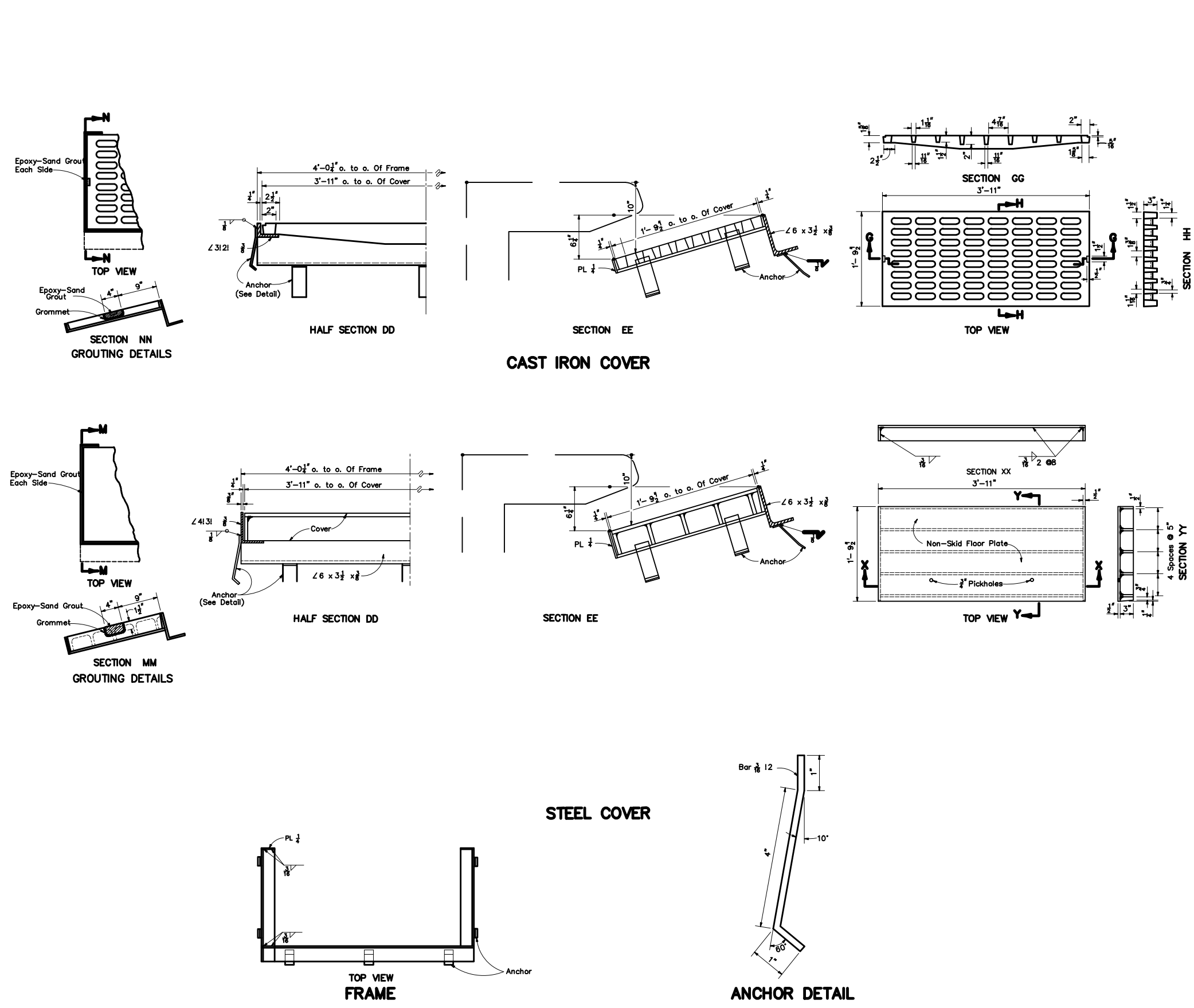
NOTE: THE ABOVE IMAGE REPRESENTS THE INTENT FOR THE AESTHETIC DESIGN OF THE PROPOSED RETAINING WALLS. THE WALL SHALL HAVE A VISUALLY VARIATED SURFACE LOOK AND TEXTURE. ALL RETAINING WALL SHALL BE PERMITTED SEPARATELY BY OTHERS.

MSE
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N.T.S.



- GENERAL NOTES
- The finished grade and slope of the inlet tops are to conform with the finished cross slope and grade of the proposed sidewalk and/or parkway.
 - When inlets are to be constructed on a curve, refer to the plans to determine the radius and, where necessary, modify the inlet details accordingly. Blend steel when necessary.
 - All reinforcing steel shall have a minimum cover unless otherwise shown. Inlet tops shall be either cast-in-place or precast concrete.
 - Precasting of this inlet top will be permitted. Precast units shall conform to the dimensions shown or in accordance with approved shop drawings. Request for shop drawing approval shall be directed to the State Drainage Engineer.
 - Concrete meeting the requirements of A.S.T.M. C 478 (4,000 P.S.I.) may be used in lieu of Class - concrete for precast units, manufactured in plants which are under the Standard Operating Procedures for the inspection of precast drainage products.
 - The corner fillets shown for rectangular throats are necessary only when throats are to be used in conjunction with circular flat bottoms or when used on them with rectangular inlet throats.
 - For inlet bottoms see Index No. 200.
 - These inlet tops are designed for use with standard curb and gutter Type E and Type F. Locate outside of pedestrian crosswalk where practical.
 - See Index 201 for supplemental details.
 - All steel used for frame and cover shall meet the requirements of ASTM A-36.
 - Either cast iron covers or steel covers may be used. Iron covers shall be Class No. 30 castings in accordance with ASTM A-48.
 - When Alternate "G" Cover is specified in plans either the cast iron cover and galvanized steel frame or the galvanized steel cover and frame must be used. Covers are to be grouted in accordance with the grouting detail shown on sheet 2 of 2, in lieu of lock welding.
 - Inlet to be paid for under the contract unit price for inlets (Type). Each.

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N.T.S.



221M
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N.T.S.

MADDEN
MOORHEAD & STOKES, LLC
CIVIL ENGINEERS
431 E. Horatio Avenue
Suite 260
Maitland, Florida 32751
(407) 629-8330

CONSTRUCTION DETAILS
FOR
VENEZIA TOWNHOMES
LAKE COUNTY
HOWEY-IN-THE-HILLS, FLORIDA

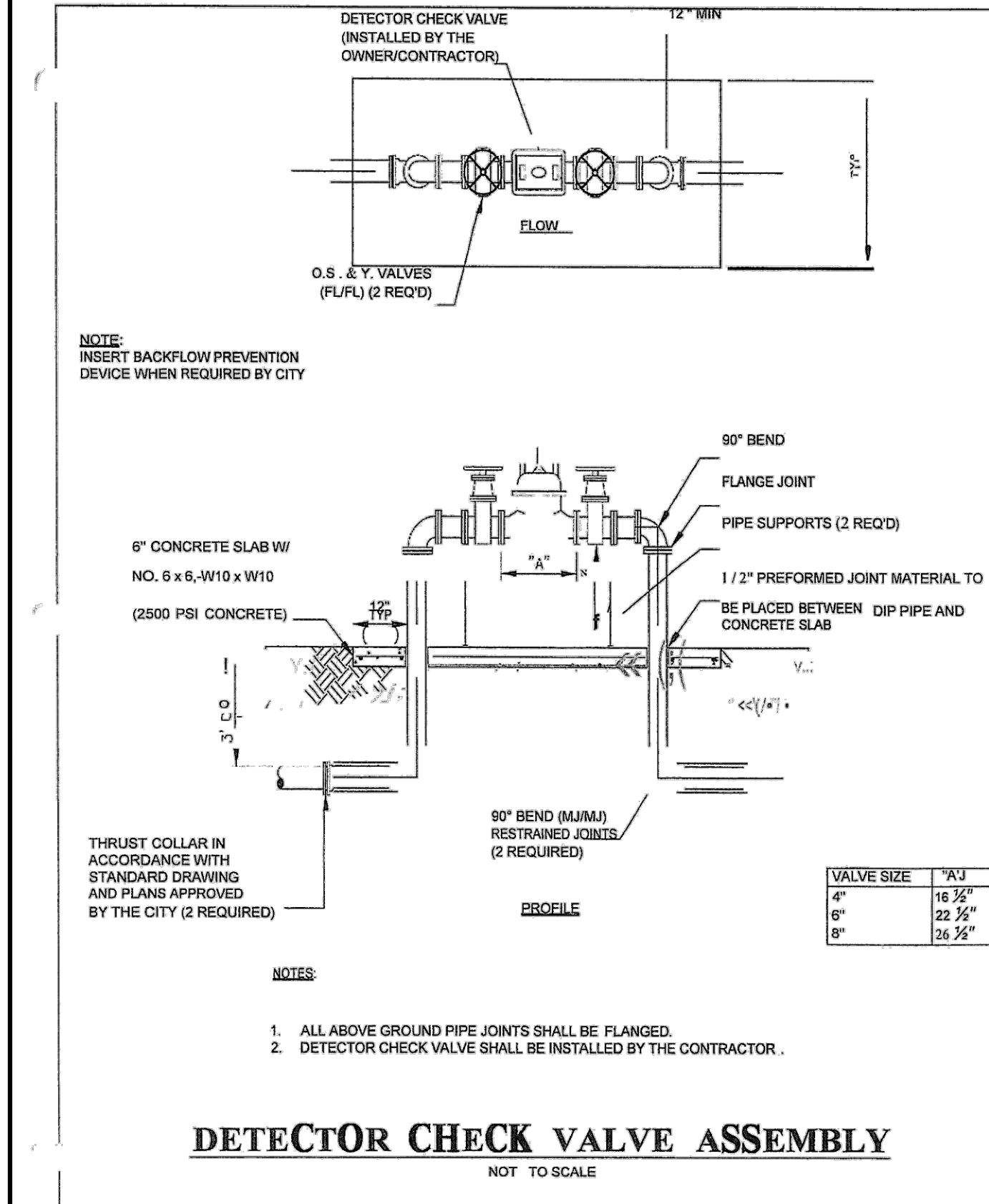
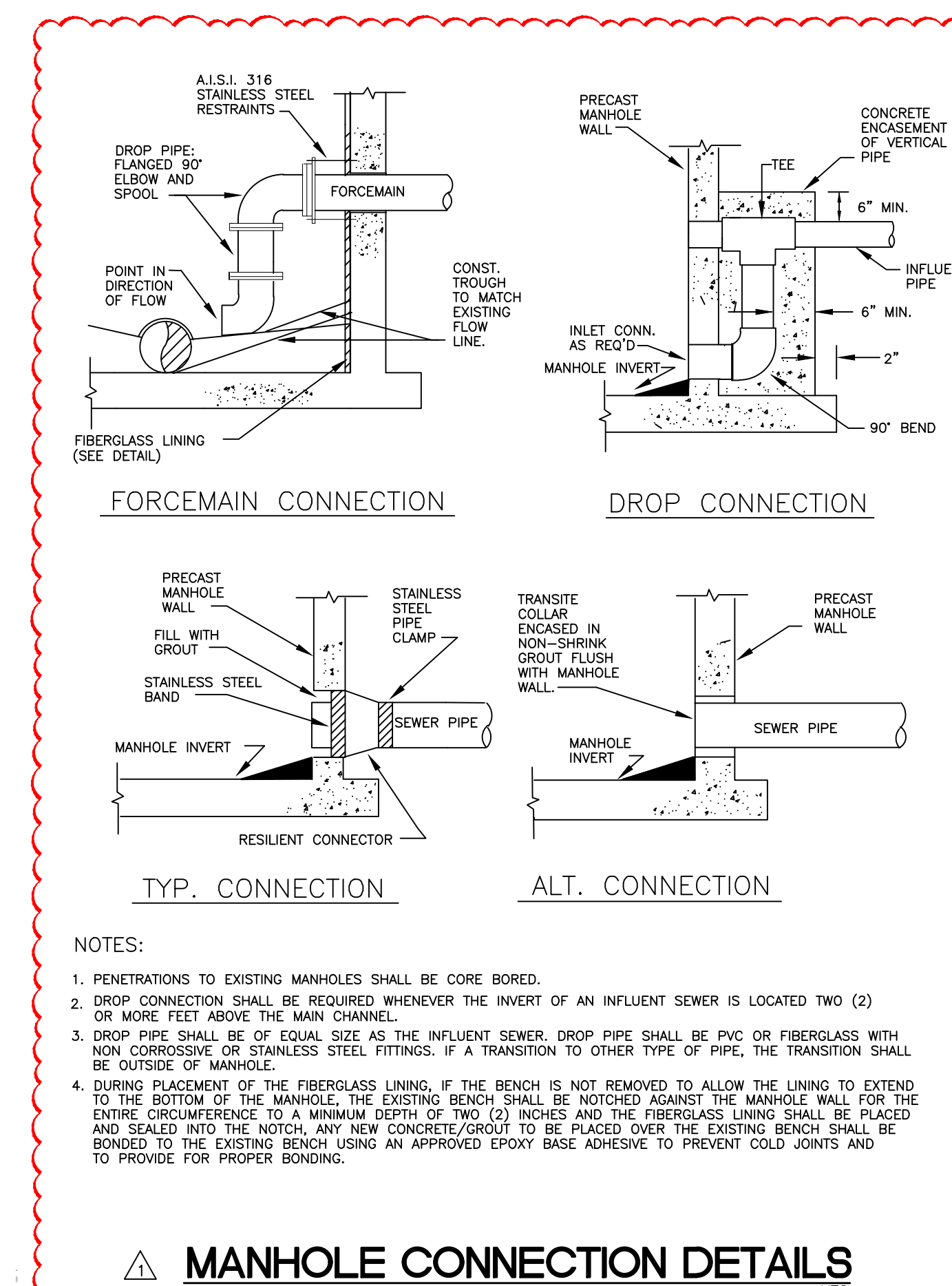
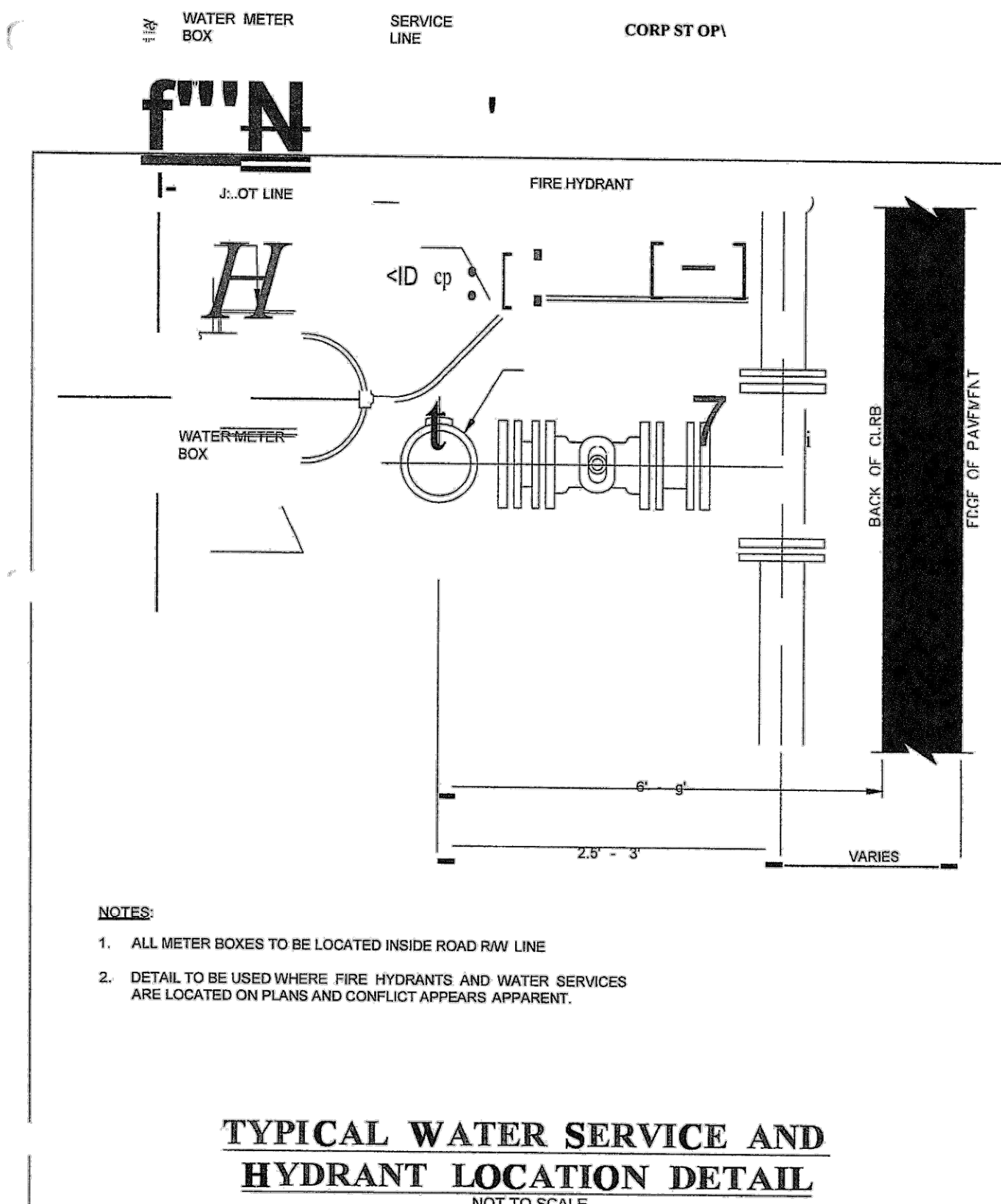
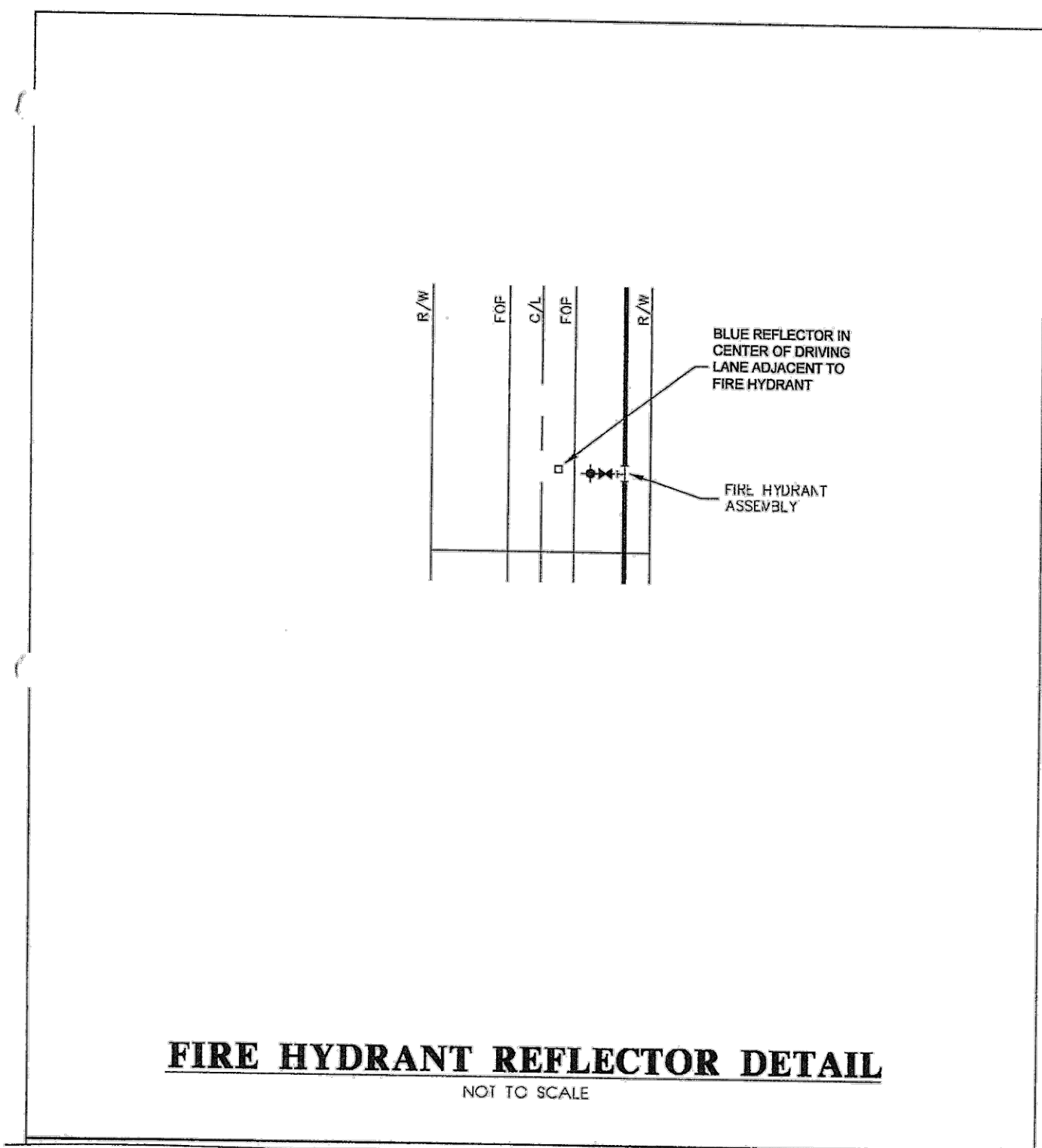
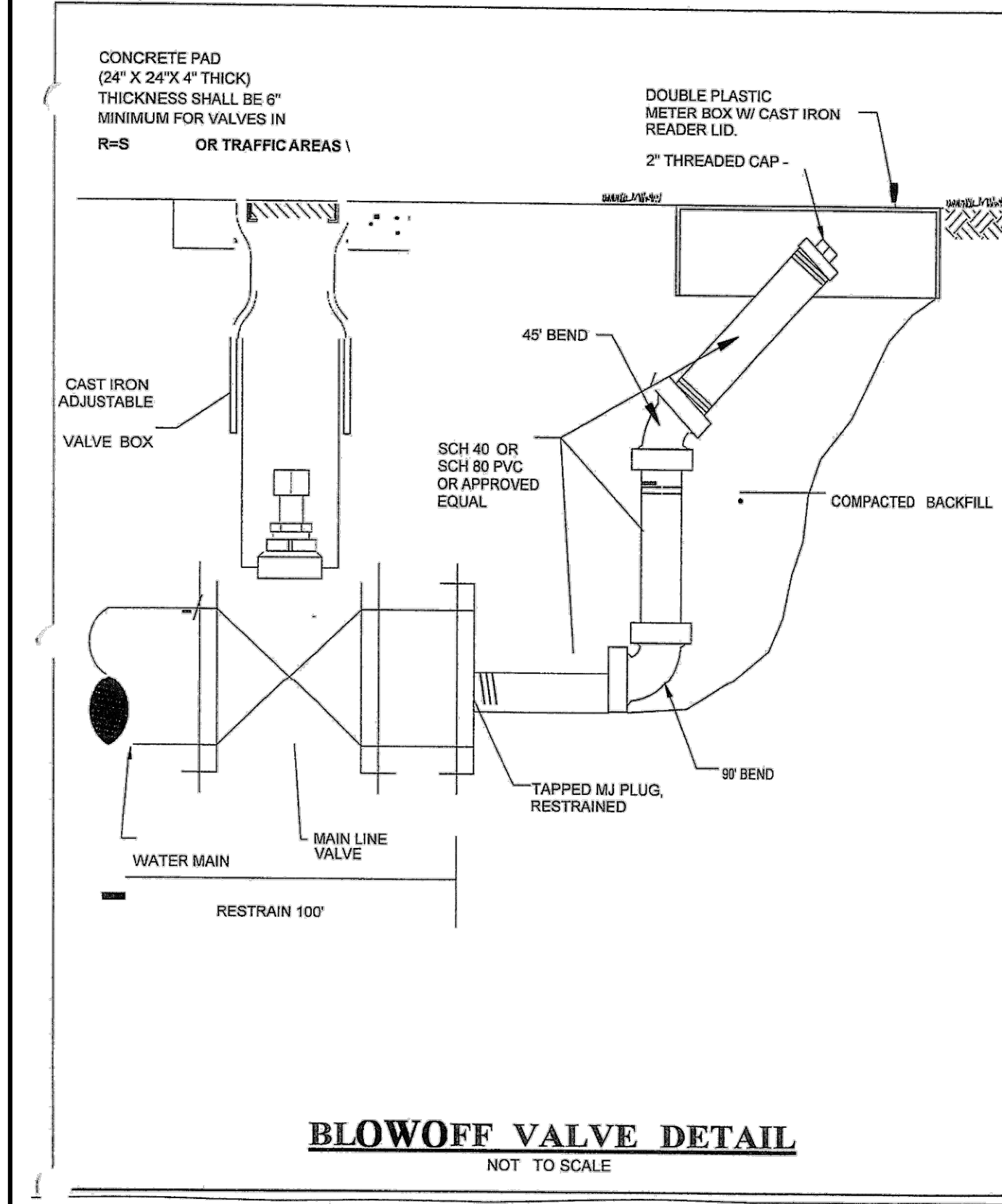
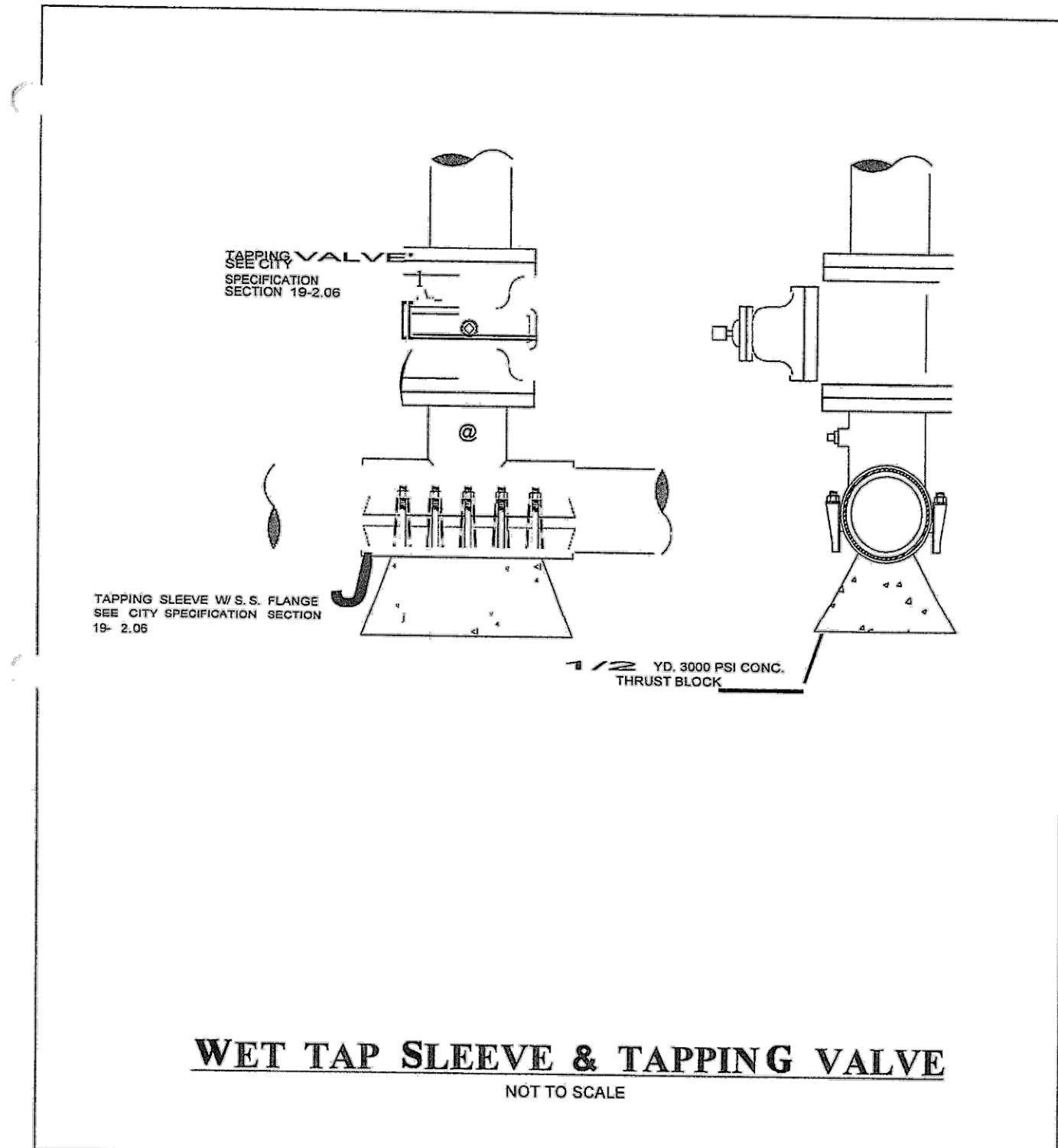
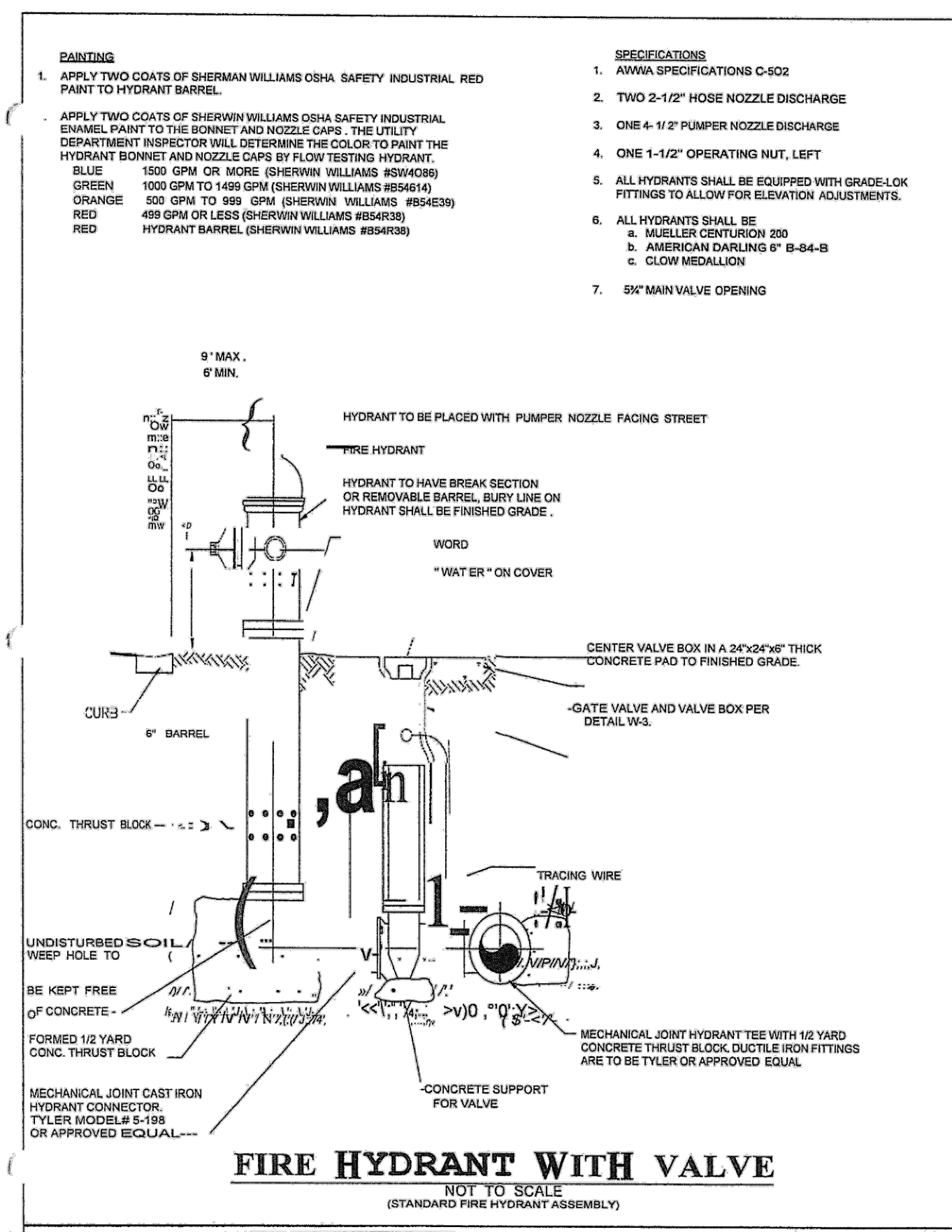
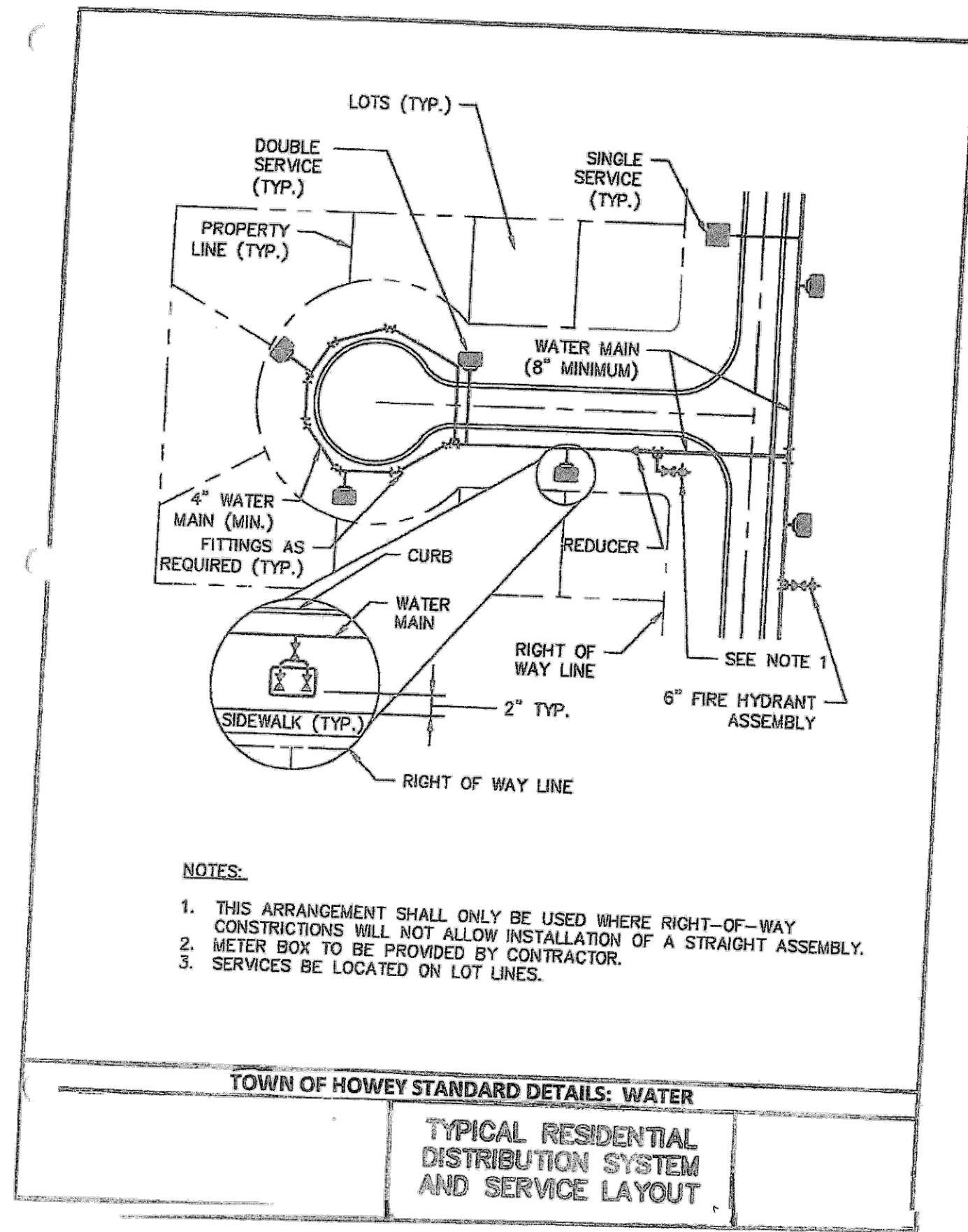
D. R. HORTON
10192 DOWDEN RD., SUITE 150
ORLANDO, FL 32832
(407) 850-5245

ENGINEER
BENJAMIN S. BECKHAM
STATE OF FLORIDA
PROFESSIONAL SEAL
DATE: 10/18/22
CERTIFICATE OF AUTHORIZATION NO. CA-0007723

NO.	DATE	REVISIONS
1	12/08/21	REVISED PER TOWN OF HOWEY-IN-THE-HILLS COMMENTS
2	07/08/22	REVISED PER TOWN OF HOWEY-IN-THE-HILLS COMMENTS
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JOB # 21052
DATE: 10/22/2021
SCALE: N.T.S.
DESIGNED BY: BSB
DRAWN BY: JAS
APPROVED BY: BSB

C903



MADDEN
MOORHEAD & STOKES, LLC
CIVIL ENGINEERS
431 E. Horatio Avenue
Suite 260
Maitland, Florida 32751
(407) 629-8330

TOWN STANDARD DETAILS
FOR
VENEZIA TOWNHOMES
LAKE COUNTY
HOWEY-IN-THE-HILLS, FLORIDA

D. R. HORTON
10192 DOWDEN RD., SUITE 150
ORLANDO, FL 32832
(407) 850-5245

ENGINEER
BENJAMIN S. BECKHAM
LICENSE
No. 79452
STATE OF FLORIDA
DATE: 10/22/2021
CITY: ORLANDO
COUNTY: LAKE
CERTIFICATE OF AUTHORIZATION NO. CA-0007723

1 07/18/22 2 REVISED PER TOWN OF HOWEY-IN-THE-HILLS COMMENTS
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STATE ROAD 19
(A.K.A. PALM AVENUE)
VARIABLE WIDTH PUBLIC RIGHT-OF-WAY
PLAT BOOK 65, PAGE 92

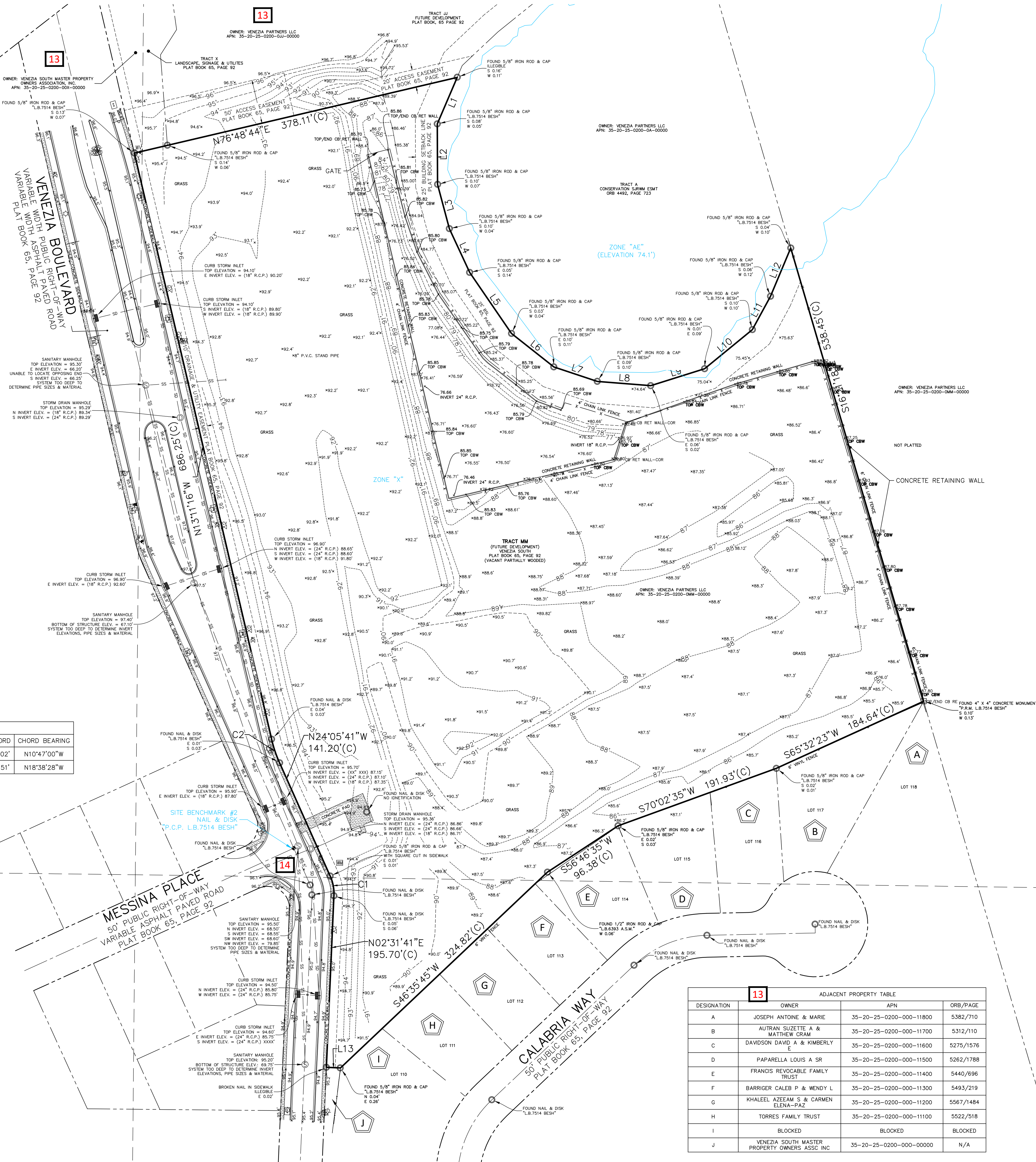
VENEZIA BOULEVARD
VARIABLE WIDTH PUBLIC RIGHT-OF-WAY
VARIABLE WIDTH ASPHALT PAVED ROAD
PLAT BOOK 65, PAGE 92

MESSINA PLACE
50' PUBLIC RIGHT-OF-WAY
VARIABLE ASPHALT PAVED ROAD
PLAT BOOK 65, PAGE 92

CALABRIA WAY
50' PUBLIC RIGHT-OF-WAY
PLAT BOOK 65, PAGE 92

CURVE DATA					
NUMBER	RADIUS	DELTA	LENGTH	CHORD	CHORD BEARING
C1	50.00'	26°37'22"	23.23'	23.02'	N10°47'00"W
C2	150.00'	10°54'24"	28.55'	28.51'	N18°38'28"W

LINE TABLE		
LINE #	DIRECTION	LENGTH
L1	S23°08'59"W	57.70'
L2	S00°16'56"E	68.98'
L3	S14°55'04"E	52.24'
L4	S24°56'41"E	55.03'
L5	S34°25'40"E	84.27'
L6	S51°40'05"E	61.62'
L7	S71°35'51"E	52.28'
L8	S85°33'21"E	61.13'
L9	N72°34'23"E	64.39'
L10	N50°42'12"E	70.27'
L11	N28°34'23"E	43.28'
L12	N22°43'59"E	59.67'
L13	N87°28'19"W	16.11'



LEGAL DESCRIPTION

TRACT MM OF VENEZIA SOUTH, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 65, PAGE(S) 92 THROUGH 97, INCLUSIVE, OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.

SURVEYOR'S NOTES

- BEARINGS SHOWN HEREON ARE BASED ON EAST RIGHT-OF-WAY LINE OF VENEZIA BOULEVARD, WHICH BEARS NORTH 13 DEGREES 11 MINUTES 16 SECONDS WEST, PER PLAT BOOK 65 PAGE 92.
- ALL STATEMENTS WITHIN THE CERTIFICATION, AND OTHER REFERENCES LOCATED ELSEWHERE HEREON, RELATED TO: UTILITIES, IMPROVEMENTS, STRUCTURES, BUILDINGS, PARTY WALLS, PARKING, EASEMENTS, SERVITUDES, AND ENCROACHMENTS ARE BASED SOLELY ON ABOVE GROUND, VISIBLE EVIDENCE, UNLESS ANOTHER SOURCE OF INFORMATION IS SPECIFICALLY REFERENCED HEREON.
- THE SURVEYOR HAS NOT ABSTRACTED THE LAND SHOWN HEREON FOR EASEMENTS, RIGHT-OF-WAY OR RESTRICTIONS OF RECORD WHICH MAY AFFECT THE TITLE OR USE OF LAND, NOR WAS ANY TITLE WORK PROVIDED TO THIS SURVEYOR BY THE CLIENT.
- NOT VALID WITHOUT THE ELECTRONIC SEAL OF A FLORIDA LICENSED PROFESSIONAL SURVEYOR & MAPPER.
- ALL RECORDING INFORMATION CITED HEREON REFERS TO THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA.
- VERTICAL INFORMATION BASED ON: BENCHMARK A-431 HAVING A PUBLISHED ELEVATION OF 99.32 (NAVD 88). DESCRIBED AS: A STAINLESS STEEL ROD WITHOUT SLEEVE
- THIS IS NOT A BOUNDARY SURVEY, IT IS INTENDED TO BE USED FOR TOPOGRAPHIC PURPOSES ONLY.

UNDERGROUND UTILITIES

UNDERGROUND UTILITIES ARE NOT SHOWN. NO SUB-SURFACE EXCAVATION OR EXPLORATION WAS PERFORMED FOR THE PURPOSE OF PREPARING THIS SURVEY, ONLY VISIBLE SURFACE EVIDENCE OF UTILITIES IS SHOWN.

FLOOD INFORMATION

BY GRAPHIC PLOTTING ONLY, THIS PROPERTY LIES WITHIN ZONE "X" AND ZONE "AE", AS SHOWN ON THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 120585 0485 E (MAP NO. 1206900485E), WHICH BEARS AN EFFECTIVE DATE OF 12/18/2012, AND NOT IN A SPECIAL FLOOD HAZARD AREA. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE. ZONE "X" DENOTES AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN. ZONE "AE" DENOTES AREAS DETERMINED TO BE SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD EVENT, BASE FLOOD ELEVATIONS DETERMINED.

LEGEND AND ABBREVIATIONS

	BENCHMARK	L.B.	LICENSED BUSINESS
	CONCRETE MONUMENT AS NOTED	R.C.P.	REINFORCED CONCRETE PIPE
	CURB STORM INLET	P.C.P.	PERMANENT CONTROL POINT
	FIRE HYDRANT	P.R.M.	PERMANENT REFERENCE MONUMENT
	IRRIGATION CONTROL VALVE	P.V.C.	POLYVINYL CHLORIDE PIPE
	LIGHT POLE	(R)	RECORD DATA
	RECOVERED MONUMENT AS NOTED	(C)	CALCULATED DATA
	SANITARY SEWER MANHOLE	(M)	FIELD MEASURED DATA
	SIGN		CONCRETE SURFACE
	STORM MANHOLE	— x —	CHAIN LINK FENCE
	UTILITY PULL BOX	— v —	VINYL FENCE
	WATER METER	— ss —	SANITARY SEWER LINE
	WATER VALVE	— sd —	STORM DRAIN LINE

SHEET 1
OF 1

I HEREBY CERTIFY THAT THIS SURVEY, SUBJECT TO THE SURVEYOR'S NOTES CONTAINED HEREON, MEETS THE APPLICABLE STANDARDS OF THE FLORIDA SURVEYING AND MAPPING BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 54-17, FLORIDA STATUTES, AND THAT THE SURVEY IS ACCORDANT TO SECTION 472.027, FLORIDA STATUTES.

FOR
FIRM
DATE
E. GLENN TURNER PSW #5643

DATE	REVISIONS	TECH

TOPOGRAPHIC SURVEY OF
VENEZIA
HOWEY IN THE HILLS, FLORIDA
SECTION 35, TOWNSHIP 20 SOUTH, RANGE 25 EAST
LAKE COUNTY
HOWEY IN THE HILLS, FLORIDA

AMERICAN SURVEYING
& MAPPING, INC.
NDPS ENGINEERING SERVICES
3324 Mossburn Road, Suite 200, Orlando, FL 32835
407-426-7979
www.asurveying.com

JOB NO.: 210570
SCALE: 1" = 60'
FIELD DATE: 06/30/21
FIELD BY: JW
DRAWN BY: KKL
APPROVED BY: GT
DRAWING FILE #
210570 - VENEZIA
ALT:DWG