

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.

# FINAL ENGINEERING PLANS FOR VENEZIA TOWNHOMES

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

FOR  
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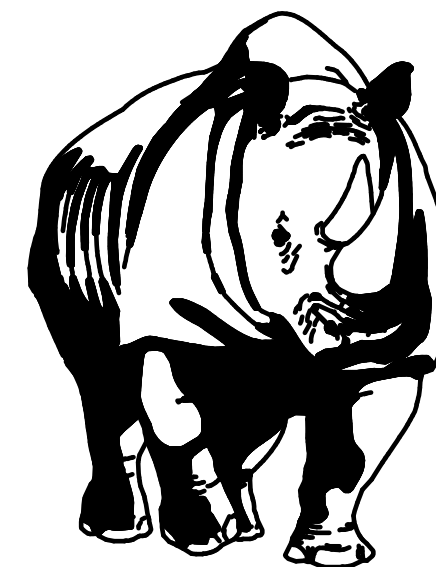
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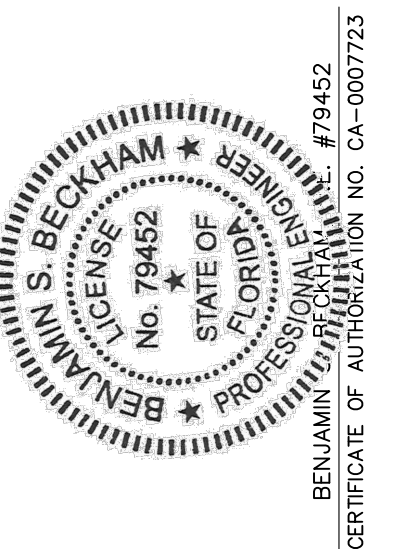
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## VICINITY MAP

1" = 2,000'



ABBREVIATIONS

Table A: ABBREVIATIONS. A AREA, AB ANCHOR BOLT, ABD ABANDON(ED), AC ACRE(S), AC-FT ACRE FOOT/FEET, ACP ASBESTOS CEMENT PIPE, ADDL ADDITIONAL, ADT AVERAGE DAILY TRAFFIC, AL ALUMINUM, ALT ALTERNATE, AM BEFORE NOON, AMP AMPERE(S), APPROX APPROXIMATE, ARV AIR RELEASE VALVE, ARV AIR RELEASE VALVE, ARV AIR RELEASE VALVE, ASPH ASPHALT, ASSY ASSEMBLY, AVE AVENUE, AVG AVERAGE, AZ AZIMUTH

Table B: BACKFLOW PREVENTER, BL BASELINE, BLDG BUILDING, BLVD BOULEVARD, BM BENCHMARK, BND BOUNDARY, BLOWOFF BLOWOFF, BOC BACK OF CURB, BOT BOTTOM, BEARING BEARING, BS BOTTOM OF SLOPE, BV BUTTERFLY VALVE

Table C: CAPACITY, CB CATCH BASIN, CC CENTER TO CENTER, CEM CEMENT, CF CUBIC FEET, CFM CUBIC FEET PER MINUTE, CFS CUBIC FEET PER SECOND, C&G CURB AND GUTTER, CI CAST IRON, CIP CAST IRON PIPE, CJ CONSTRUCTION JOINT, CLP CENTER LINE, CLP CONCRETE LIGHT POLE, CLR CLEAR/CLEARANCE, CLS CLASS, CM CONCRETE MONUMENT, CWP CORRUGATED METAL PIPE, CWP CORRUGATED METAL PIPE ARCH, CO COUNTY, CO CLEANOUT, COL COLUMN, COMP COMPLETE, CONC CONCRETE, CONN CONNECTION, CONST CONSTRUCTION, CONT CONTINUOUS, COORD COORDINATE(S), COR CORNER, CPLG COUPLING, CPP CONCRETE POWER POLE, CS CONTROL STRUCTURE, CTG COATING, CTR CENTER, CTV CABLE TELEVISION, CULV CULVERT, CY CUBIC YARD, CYL CYLINDER

Table D: DBL DOUBLE, DEG OR DEGREE, DEFL DEFLECTION, DEPT DEPARTMENT, DET DETAIL, DHWL DESIGN HIGH WATER LEVEL, DIA DIAMETER, DIAGONAL DIAGONAL, DIM DIMENSION, DIP DUCTILE IRON PIPE, DISCH DISCHARGE, DIST DISTANCE, DMH DROP MANHOLE, DN DOWN, DRN DRAIN, DWG DRAWING, DWY DRIVEWAY

Table E: EAST, EA EACH, EDC EDGE OF CONCRETE, ED ENERGY DISSIPATOR, EF EACH FACE, EFF EFFLUENT, E/G EXISTING GRADE, E/L EASEMENT LINE, ELB ELBOW, ELEC ELECTRIC, ELEV ELEVATION, ELLIP ELLIPSE/ELLIPTICAL, ENC ENCASMENT, ENG ENGINEER(ING), EOP EDGE OF PAVEMENT, EQ EQUA/EQUATION, EQUIP EQUIPMENT, EQUIV EQUIVALENT, ESMT EASEMENT, EST ESTIMATE, ESW EACH WAY, EWL ENDWALL, EXC EXCAVATE/EXCAVATION, EXIST EXISTING, EXP EXPAND/EXPANSION, EXT EXTEND/EXTENSION

Table F: F&C FRAME AND COVER, FD FLOOR DRAIN, FDN FOUNDATION, FDOT FLORIDA DEPARTMENT OF TRANSPORTATION, FF FINISHED FLOOR, FG FINISHED GRADE, FH FIRE HYDRANT, F&I FURNISH AND INSTALL, FIG FIGURE, FIN FINISHED, FIT FITTING, FL FENCE LINE, FLM FLOOR, FLEX FLEXIBLE, FLG FLANGE, FM FORCE MAIN, FND FOUND, FPH FEET PER HOUR, FPM FEET PER MINUTE, FPS FEET PER SECOND, FTG FOOTING

Table G: GA GAUGE, GAL GALLON, GALV GALVANIZED, GM GAS MAIN, GPD GALLONS PER DAY, GPH GALLONS PER HOUR, GPM GALLONS PER MINUTE, GPS GALLONS PER SECOND, GR GUARD RAIL, GRD GROUND/GRADE, GVP GALVANIZED STEEL PIPE, GV GATE VALVE, GY&B GUY WIRE AND BOX, GW GUY WIRE, GWT GROUND WATER TABLE

Table H: HB HOSE BIBB, HDPE HIGH DENSITY POLYETHYLENE, HDW HARDWARE, HOA HOME OWNERS ASSOCIATION, HORIZ HORIZONTAL, HP HORSEPOWER, HR HOUR, HT HEIGHT, HW HEADWALL, HWL HIGH WATER LEVEL, HWY HIGHWAY, HYD HYDRAULIC

Table I: I-4 INTERSTATE HIGHWAY, IA INTERSECTION ANGLE, ID INSIDE DIAMETER, IF INSIDE FACE, IN INCHES, INL INLET, INS INSERT, INST INSTALL, IP IRON PIPE, IR IRON ROD, INT INTERSECT/INTERSECTION, INV INVERT

Table J: JB JOINT, JCT JUNCTION, JOIST, JST JOINT, JT JOINT

Table L: LENGTH, LAT LATITUDE, LAT LATERAL, LB POUND, LF LINEAR FEET/FOOT, LG LONG, LIM LIMIT(S), LP LIGHT POLE, LONG LONG, LT LEFT, LWL LOW WATER LEVEL

Table M: MAINT MAINTENANCE, MATL MATERIAL, MAX MAXIMUM, MECH MECHANICAL, MIER MITERED END, MFR MANUFACTURER, MGD MILLION GALLONS PER DAY, MH MANHOLE, MHC MANHOLE COVER, MHW MEAN HIGH WATER LEVEL, MIN MINIMUM, MISC MISCELLANEOUS, MJ MECHANICAL JOINT, MLP METAL LIGHT POLE, MLW MEAN LOW WATER LEVEL, MON MONUMENT, MPH MILES PER HOUR, MSL MEAN SEA LEVEL, MTG MOUNTING

Table N: NORTH, NAWTH NORTH, NRT NORTH, NA NOT APPLICABLE, N&C NAIL AND CAP, NE NORTH-EAST, NG NATURAL GROUND, NIC NOT IN CONTRACT, NO NUMBER, NO OR # NOMINAL, NTS NOT TO SCALE, NW NORTHWEST, NWL NORMAL WATER LEVEL

Table O: ON CENTER, OD OUTSIDE DIAMETER, OE OR EQUAL, OPNG OPENING, OPP OPPOSITE, ORCP OVAL REINFORCED CONCRETE PIPE, OS OUTFALL STRUCTURE, OVFL OVERFLOW, OVHD OVERHEAD

Table P: POINT OF CURVATURE, PCC POINT OF COMPOUND CURVATURE, PEP POLYETHYLENE PIPE, PFGP PROFILE GRADE POINT OF INTERSECTION PROPERTY LINE, P/L POINT OF BEGINNING OF TRANSPORTATION, POB POINT OF BEGINNING OF TRANSPORTATION, POJ PUSH ON JOINT, PP POWER POLE, PR PHONE RISER, PRC POINT OF REVERSE CURVATURE, PRESS PRESSURE, PROJ PROJECT, PROP PROPOSED, PRVC POINT OF REVERSE VERTICAL CURVE, PSI POUNDS PER SQUARE INCH, PSF POUNDS PER SQUARE FOOT, PSI POUNDS PER SQUARE INCH, PT POINT OF TANGENCY, PAV PAVEMENT, PWT POWER, PWR POWER

Table Q: Q FLOW RATE, R RADIUS, RCP REINFORCED CONCRETE PIPE, RCP REINFORCED CONCRETE PIPE ARCH, ROAD ROAD, RDY ROADWAY, RED REDUCER, REF REFERENCE, REINF REINFORCE(D), REVD REVISION, RPM REVOLUTIONS PER MINUTE, R/M RAILROAD, RT RIGHT, R/V RELIEF VALVE, R/W RIGHT-OF-WAY, R/W REUSE WATER MAIN

Table S: SOUTH, SAN SANITARY SEWER, SAN SPLASH BLOCK, SCHED SCHEDULE, SD SIDE DRAIN, SHELD SHELL DRAIN, SE SOUTHEAST, SEC SECONDS, SECT SECTION, SH SHEET, SHGW SH SEASONAL HIGH GROUND WATER TABLE, SIM SIMILAR, S/L SETBACK LINE, SL SLOPE, SPT SHEET PILE, SPEC SPECIFICATION(S), SQ SQUARE, SQ INCH(ES), SQ FT SQUARE FOOT/FEET, SQ YD SQUARE YARD(S), ST STATE, SS STAINLESS STEEL, STA STATION, STD STANDARD, STL STEEL, STR STRUCTURE, STS STORM SEWER, SUP SUPPORT, SUSP SUSPND/SUSPENSION, SVC SERVICE, S/W SOUTHWEST, SIBEN SIBERIAN, SYM SYMBOL(S), SYMM SYMMETRICAL, SYS SYSTEM

Table T: TANGENT, TB TURFBLOCK, T&B TOP AND BOTTOM, TBM TEMPORARY BENCHMARK, TC TIME OF CONCENTRATION, TD TRENCH DRAIN, TDH TOTAL DYNAMIC HEAD, TECH TECHNICIAN/TECHNICAL, TEMP TEMPORARY, TERM TERMINAL LAMP/POLE, TOB TOP OF BANK, TOC TOP OF CURB, TOE TOE OF SLOPE, TOT TOTAL, TS TOP OF SLOPE, TWP TOWNSHIP, TYP TYPICAL

Table U: UNDERDRAIN, UD UNDERDRAIN, UG UNDERGROUND, UN UNLESS OTHERWISE NOTED, UTC UNDERGROUND TELEPHONE CABLE

Table V: VALVE BOX, VB VALVE BOX, VC VERTICAL CURVE, VCP VITRIFIED CLAY PIPE, VERT VERTICAL, VPC VERTICAL POINT OF CURVE, VPI VERTICAL POINT OF INTERSECTION, VPT VERTICAL POINT OF TANGENCY

Table W: WEST, W/W WITH, WM WATER MAIN, W/O WITHOUT, W/W W/WEATHER PROOF, WPP WOOD POWER POLE, WS WATER SURFACE, WSWT WET SEASON WATER TABLE, WT WEIGHT, WV WATER VALVE, WVF WELDED WIRE FABRIC, WWM WELDED WIRE MESH

Table Y: YARD, YD YARD, YR YEAR

Table Z: Z AT DELTA, Z & AT DELTA

EXISTING SYMBOLS

LINES: CENTER LINE, WIRE FENCE, CHAIN LINK FENCE, WOOD FENCE, GUARDRAIL, EXISTING PLATS, RETAINING WALL, RIGHT-OF-WAY LINE, SHORELINE, SWALE, BUILDING LINE, CONTOURS, RAILROAD TRACKS, GAS MAIN, UNDERGROUND ELECTRIC, UNDERGROUND TELEPHONE, OVERHEAD ELECTRIC, OVERHEAD TELEPHONE, UNDERGROUND CABLE TELEVISION, EASEMENT

SANITARY: SANITARY SEWER LINE, CLEANOUT, FORCE MAIN, MANHOLE

WATER & REUSE WATER: WATER MAIN DIP PIPE, REUSE WATER MAIN, BACKFLOW PREVENTOR, WATER VALVE, FIRE HYDRANT, WATER METER

STORM DRAIN: STORM SEWER, MANHOLE, MITERED END, STORM INLET, FDOT TYPE 1 INLET, FDOT TYPE 2 INLET, FDOT TYPE 3 INLET, FDOT TYPE 4 INLET, FDOT TYPE 5 INLET, FDOT TYPE 6 INLET

HIGHWAY & UTILITIES: BENCHMARK, RECOVERED 4x4 CM, SET 4x4 CM, SET IRON ROD, RECOVERED IRON ROD, CONCRETE, COUNTY ROADS, INTERSTATE ROADS, STATE ROADS, WOOD AND/OR METAL LIGHT POLE, CONCRETE LIGHT POLE, YARD LIGHT, MISCELLANEOUS SIGN, SECTION CORNER, EDGE OF PAVEMENT W/O CURB, EDGE OF PAVEMENT W/CURB, GUY POLE, WOOD UTILITY POLE, CONCRETE UTILITY POLE, ELECTRIC MANHOLE, TELEPHONE MANHOLE, TELEPHONE RISER, ELECTRIC BOX / TRANSFORMER, WELL, MONITORING WELL, DUMPSTER, RR CROSSING SIGN, RR CROSSING GATE, TRAFFIC SIGNAL POLE, SATELLITE DISH, GUY WIRE, HANDICAP PARKING, SPOT ELEVATION

PROPOSED SYMBOLS

LINES: BOUNDARY, CONSERVATION SETBACK, CENTER LINE, CHAIN LINK FENCE, CONTOUR, EASEMENT, FENCE, GUARDRAIL, LOT LINE, PROPERTY LINE, RETAINING WALL, RIGHT-OF-WAY LINE, SETBACK LINE, SHORELINE, SWALE, TREE LINE

SANITARY: 100 LF SAN 8 PVC 0.40%, 100 LINEAR FEET SANITARY 8" PVC PIPE @ 0.40% SLOPE, CLEANOUT, DOUBLE SANITARY SERVICE, FORCE MAIN PVC PIPE, MANHOLE

WATER & REUSE WATER: WATER MAIN DIP PIPE, 11 1/2' BEND, 22 1/2' BEND, 45' BEND, 90' BEND, TEE, CROSS, CHECK VALVE, DOUBLE DETECTOR CHECK VALVE, DOUBLE WATER SERVICE, GATE VALVE, FIRE HYDRANT, METER, REDUCER, BLOWOFF, BACKFLOW PREVENTER, SAMPLE POINT, UNDERDRAIN CLEANOUT, RECLAIM WATER MAIN, DOUBLE REUSE WATER SERVICE

STORM DRAIN: 100 LF STS 24 HP @ 0.20%, 100 LINEAR FEET STORM PIPE 24" HIGH DENSITY POLYPROPYLENE PIPE @ 0.20%, UNDERDRAIN 6" HDPE PIPE, DRAINAGE FLOW DIRECTION, FDOT INLET TYPE 1, FDOT INLET TYPE 2, FDOT INLET TYPE 3, FDOT INLET TYPE 4, FDOT INLET TYPE 5, FDOT INLET TYPE 6, MANHOLE, MITERED END SECTION, SLOPE DIRECTION ARROW FOR POND SIDE SLOPE, SPOT ELEVATION, STORM INLET

HIGHWAY & UTILITIES: BOUND CORNER, CONCRETE, COUNTY ROADS, DETAIL REFERENCE, DUMPSTER PAD, FINISHED FLOOR ELEVATION W/ FHA LOT TYPE, GUY POLE, HANDICAP PARKING, INTERSTATE ROADS, LIGHT POLE, SIGNS, SECTION CORNER, STATE ROADS, SILT FENCE, TRAFFIC FLOW PAVEMENT MARKING, UTILITY POLE, BLDG OR STRUCTURE, TYPE F CURB & GUTTER, MIAMI CURB, CROSS SECTION DETAIL



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SYMBOLS + ABBREVIATIONS FOR VENEZIA TOWNHOMES

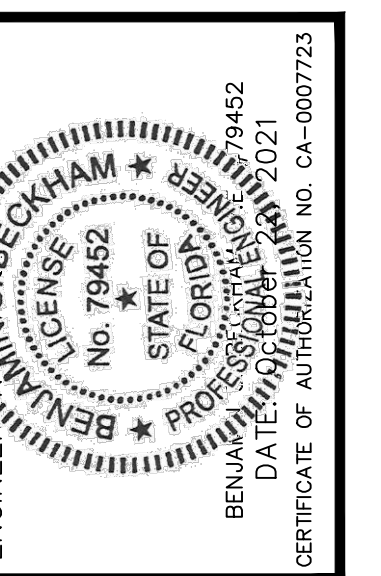


Table with columns: DATE, REVISIONS, JOB #, DATE, SCALE, DESIGNED BY, DRAWN BY, APPROVED BY

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

C002

GENERAL NOTES

- 1. ALL CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH THE LATEST LOCAL AGENCY DETAILS, THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION... 2. ALL FDOT DESIGN INDICES ARE HEREBY INCORPORATED AS PLAN REFERENCES HEREIN... 3. 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...

PAVING AND DRAINAGE

- 1. 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... 2. FLORIDA LAW (F.S. 553.851) 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...

SANITARY SEWER

- 1. ROOF DRAINS, FOUNDATION DRAINS OR OTHER STORM WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED... 2. GRAVITY SEWER PIPE SHALL BE SDR26 PVC AND SHALL MEET ASTM D3034, UNLESS OTHERWISE SPECIFIED... 3. ALL SANITARY SEWER LATERALS SHALL BE 6-INCH DIAMETER PVC AND SHALL END WITH A CLEAN OUT... 4. ALL SANITARY SEWER PIPE SHALL BE COLORED GREEN...

WATER

- 1. 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... 2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH AWWA STANDARDS AND IN ACCORDANCE WITH LOCAL AGENCY STANDARD DETAILS... 3. 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...

RECLAIMED WATER

- 1. POLYVINYL CHLORIDE PIPE (PVC) 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... 2. DUCTILE IRON PIPE (DIP) SHALL BE STANDARD PRESSURE CLASS 350 IN SIZES 4-INCH THROUGH 12-INCH AND CONFORM TO ANS/AWWA C150/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)...

FIRE

- PLANS SHALL BE IN ACCORDANCE WITH THE 6TH EDITION OF THE FLORIDA FIRE PREVENTION CODE, NFPA 101, 2015 EDITION, NFPA 1, 2015 EDITION, NFPA 14, 2013 EDITION, NFPA 24, 2013 EDITION, NFPA 13, 2013 EDITION

SPECIAL PURPOSE

- 1. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO 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... 2. VALVE BOX PADS SHALL BE 18"x18"x4" THICK CONCRETE WITH FOUR (4) REINFORCING BARS. PADS IS TO BE SET AT FINISH GRADE... 3. UNDERGROUND VALVE IDENTIFICATION (UVI) MARKERS SHALL BE PROVIDED AT EACH VALVE LOCATION. MARKERS SHALL BE 3-INCH DIAMETER AND 1/8-INCH THICK SOLID BRASS WITH 1/4-INCH ROD ANCHOR WITH "TAMPER-PROOF" HOOK END...

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

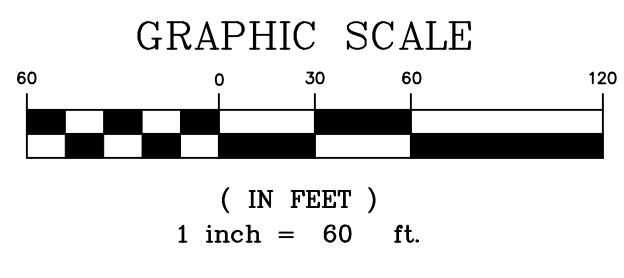
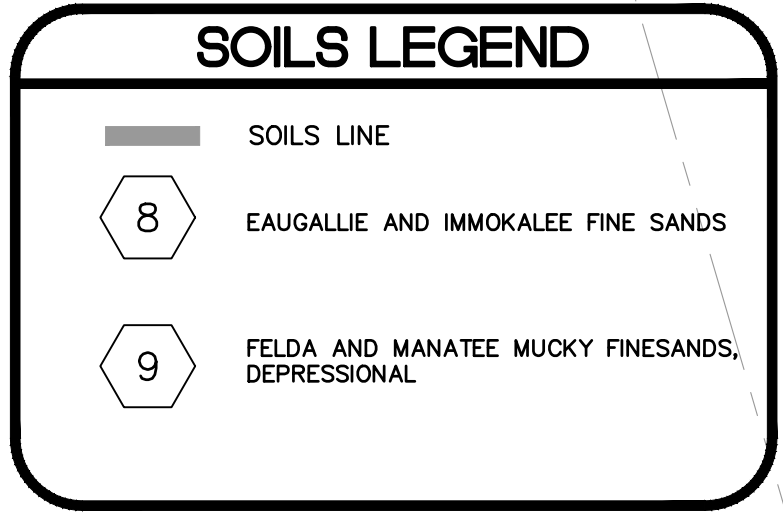
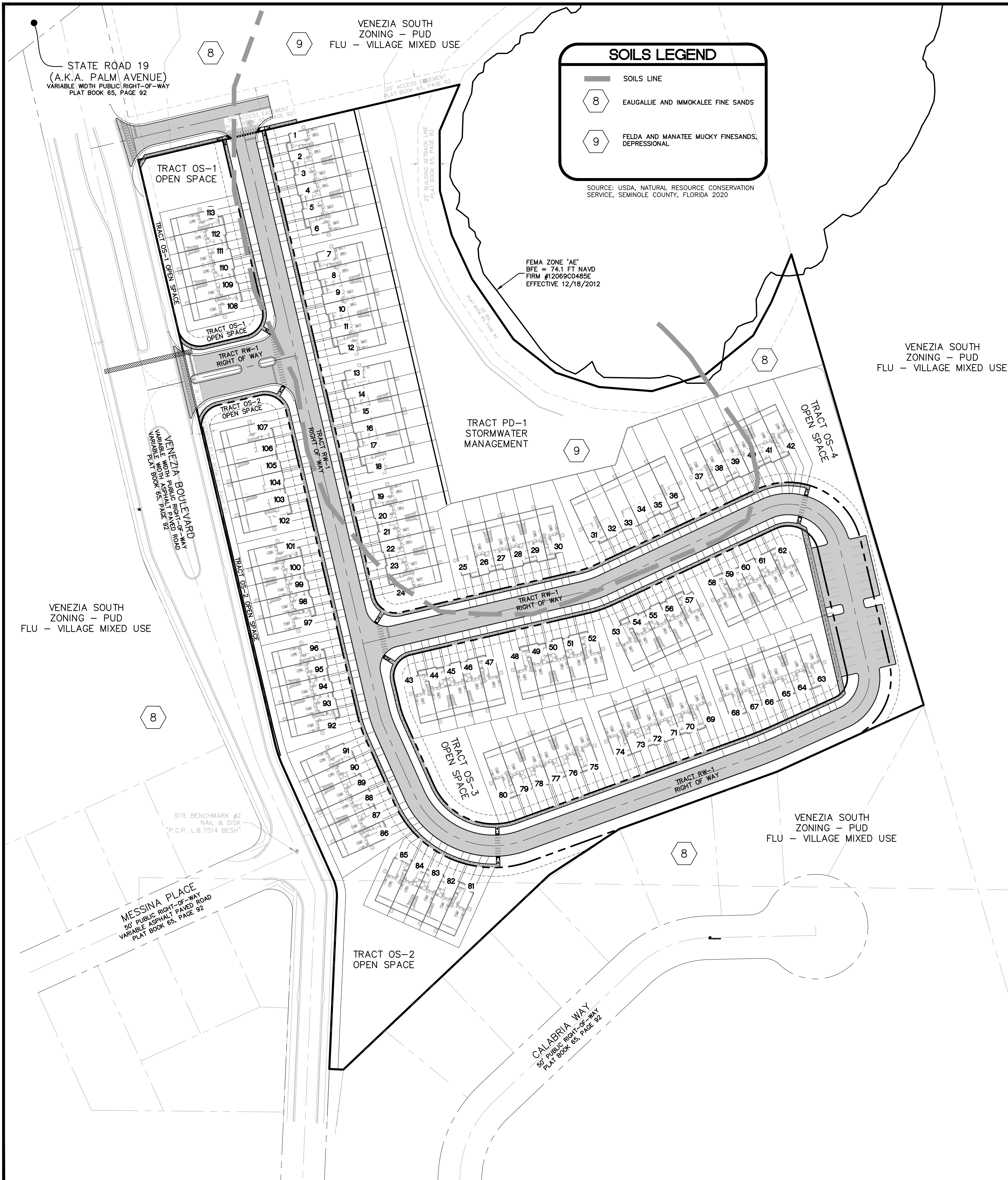
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Professional Engineer Seal for Benjamin J. Beckham, No. 79452, State of Florida, Commission Expires 12/31/2021

Table with columns for DATE, REVISIONS, and a grid for tracking changes.

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C003



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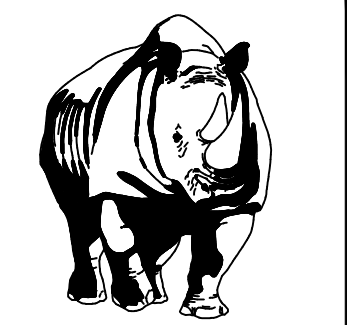
1. PARCEL ID: 35-20-25-0200-0MM-00000
2. EXISTING ZONING: (PUD)
3. EXISTING FUTURE LAND USE: (VMU) VILLAGE MIXED USE
4. EXISTING USE: VACANT LAND (MASS-GRADED)
5. PROJECT IS LOCATED IN ZONE X PER FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 12069C0485E FOR LAKE COUNTY DATED DECEMBER 18, 2012. 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:  
ALLOWED: 11.83 ACRES x 20 DU/AC = 236 UNITS  
PROPOSED: 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 / LANDSCAPE BUFFER	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%
<b>TOTAL</b>				<b>11.83 100.00%</b>



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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



NO.	DATE	REVISIONS
1	10/22/2021	ISSUE FOR PERMIT
2	10/22/2021	REVISED PER COMMENTS
3	10/22/2021	REVISED PER COMMENTS
4	10/22/2021	REVISED PER COMMENTS
5	10/22/2021	REVISED PER COMMENTS
6	10/22/2021	REVISED PER COMMENTS
7	10/22/2021	REVISED PER COMMENTS
8	10/22/2021	REVISED PER COMMENTS
9	10/22/2021	REVISED PER COMMENTS
10	10/22/2021	REVISED PER COMMENTS
11	10/22/2021	REVISED PER COMMENTS

JOB # 21052  
DATE: 10/22/2021  
SCALE: 1" = 60'  
DESIGNED BY: BSB  
DRAWN BY: JAS  
APPROVED BY: BSB

**C100**

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- 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

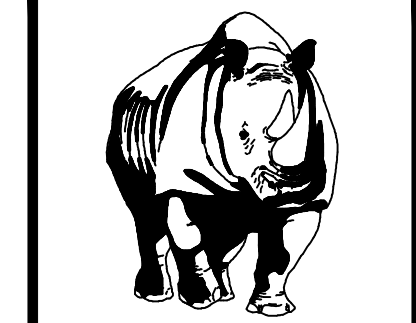
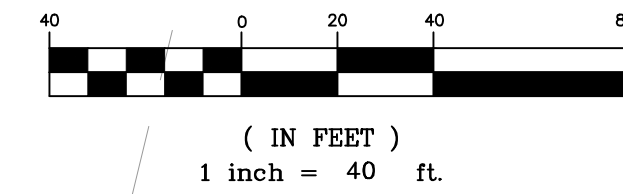


DETAIL REFERENCE



CROSS SECTION DETAIL

GRAPHIC SCALE

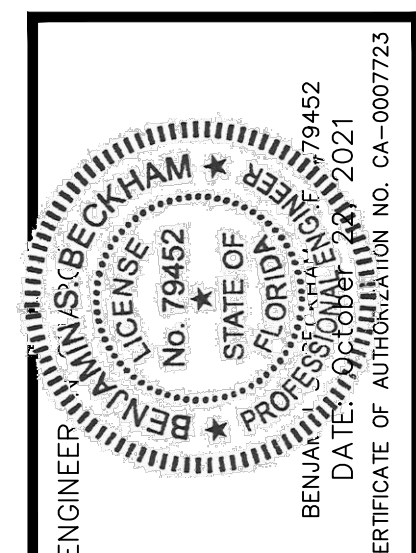


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SITE PLAN FOR  
**VENEZIA TOWNHOMES**  
LAKE COUNTY

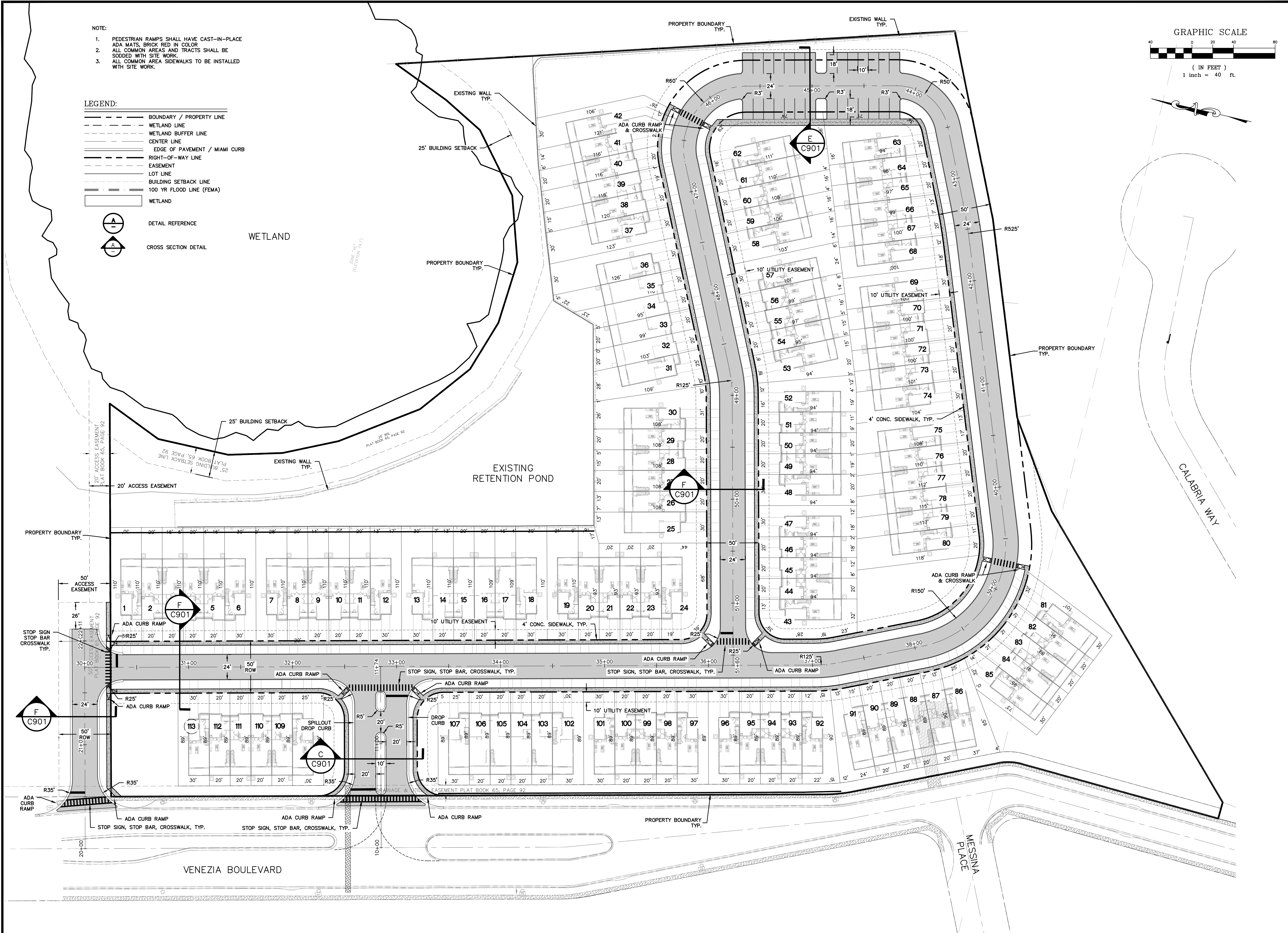
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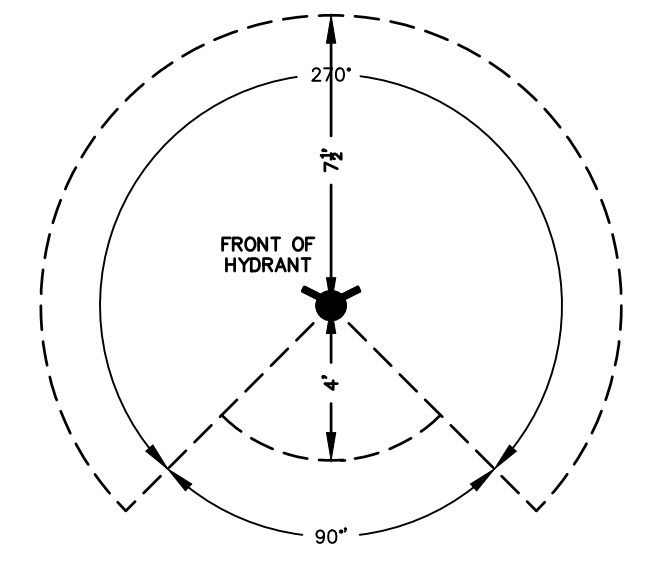
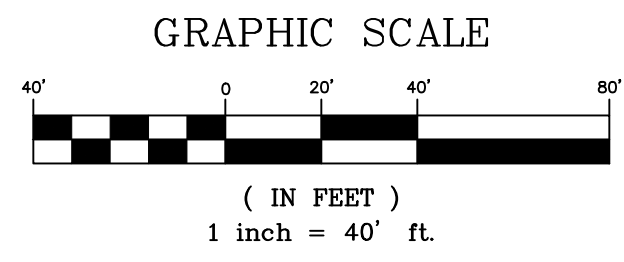
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JOB # 21052  
DATE: 10/22/2021  
SCALE: 1" = 40'  
DESIGNED BY: BSB  
DRAWN BY: JAS  
APPROVED BY: BSB

C101



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FIRE HYDRANT CLEARANCE DETAIL

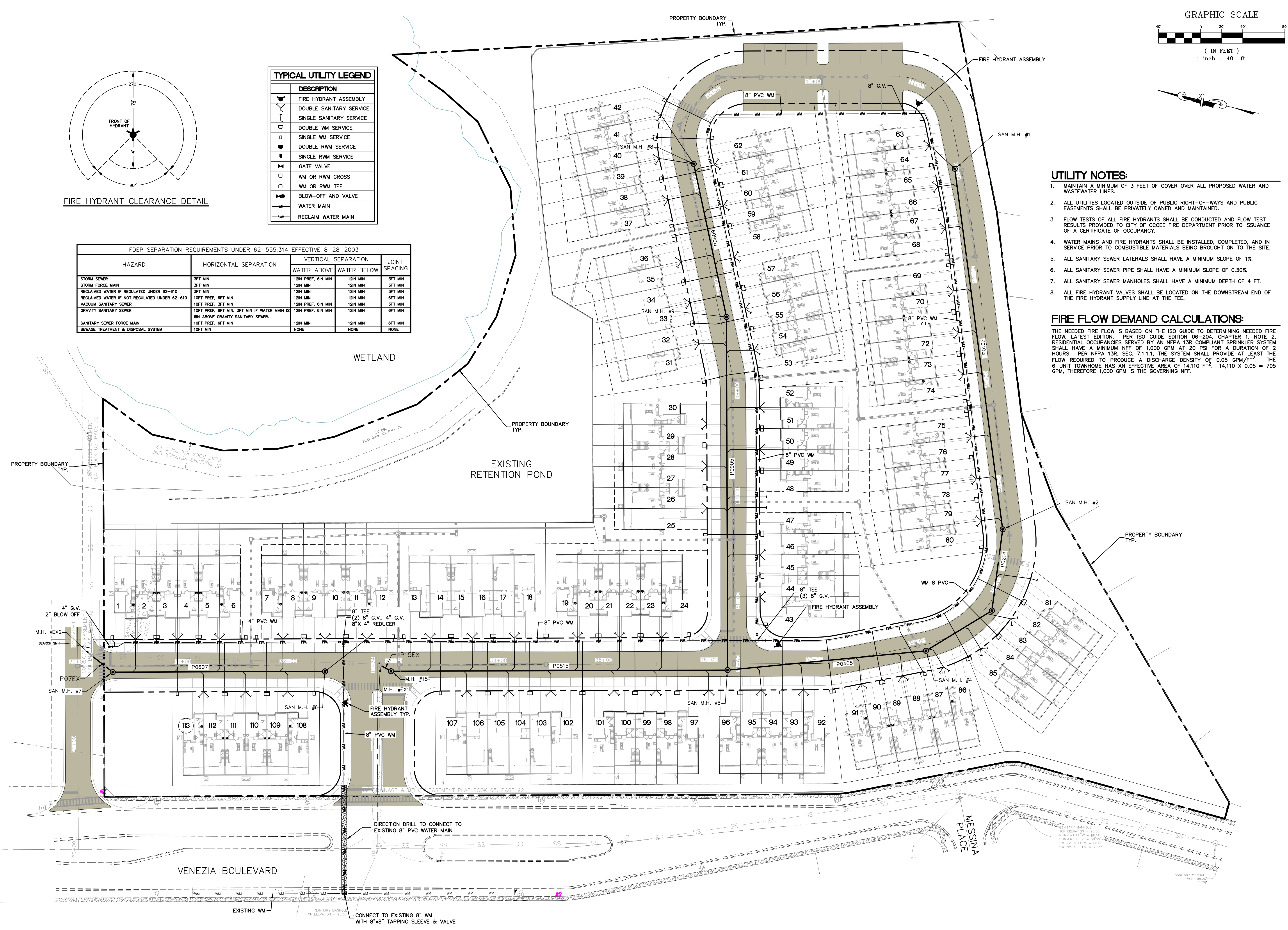
TYPICAL UTILITY LEGEND	
DESCRIPTION	SYMBOL
FIRE HYDRANT ASSEMBLY	[Symbol]
DOUBLE SANITARY SERVICE	[Symbol]
SINGLE SANITARY SERVICE	[Symbol]
DOUBLE WM SERVICE	[Symbol]
SINGLE WM SERVICE	[Symbol]
DOUBLE RWM SERVICE	[Symbol]
SINGLE RWM SERVICE	[Symbol]
GATE VALVE	[Symbol]
WM OR RWM CROSS	[Symbol]
WM OR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

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 OCOCHEE 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/FT<sup>2</sup>. THE 6-UNIT TOWNHOME HAS AN EFFECTIVE AREA OF 14,110 FT<sup>2</sup>. 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

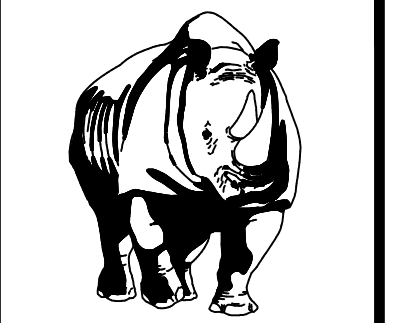
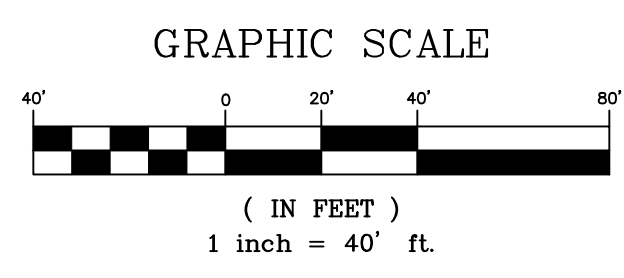
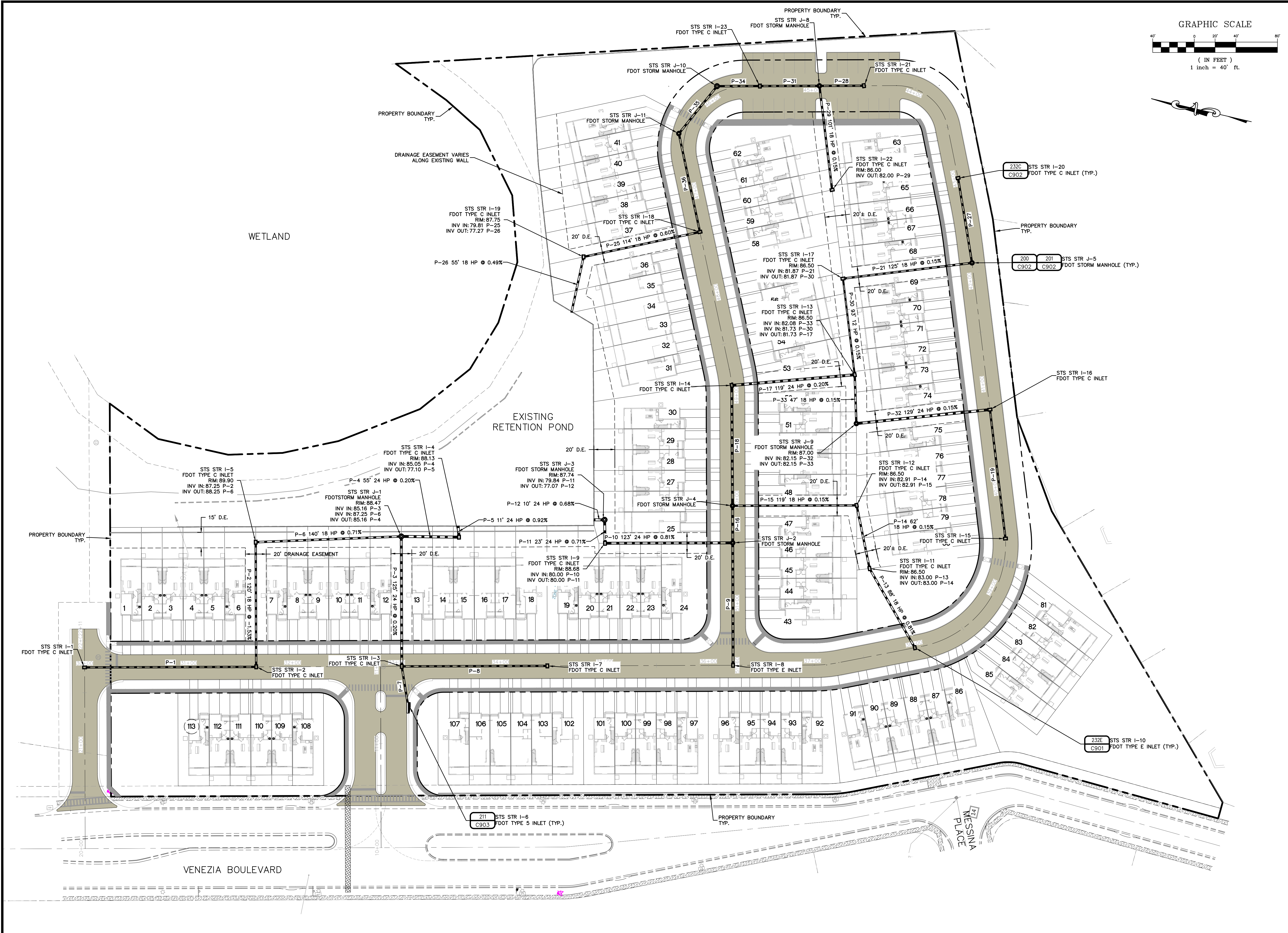
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NO.	DATE	REVISIONS
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JOB # 21052  
DATE: 10/22/2021  
SCALE: 1" = 40'  
DESIGNED BY: BSB  
DRAWN BY: JAS  
APPROVED BY: BSB

**C201**

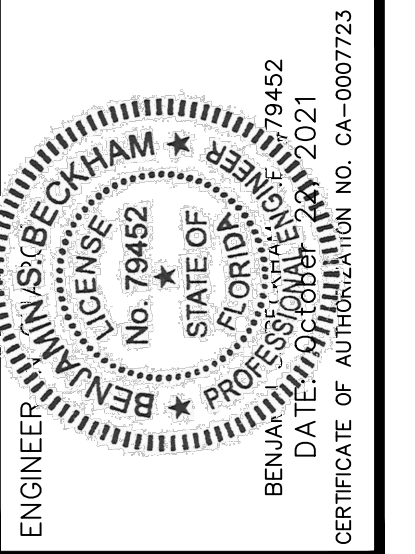
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DRAINAGE PLAN  
FOR  
**VENEZIA TOWNHOMES**  
LAKE COUNTY  
HOWEY-IN-THE-HILLS, FLORIDA

**D. R. HORTON**  
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ORLANDO, FL 32832  
(407) 850-5245

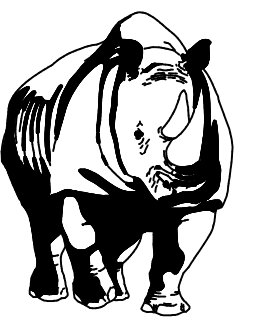


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JOB # 21052  
 DATE: 10/22/2021  
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**C301**

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

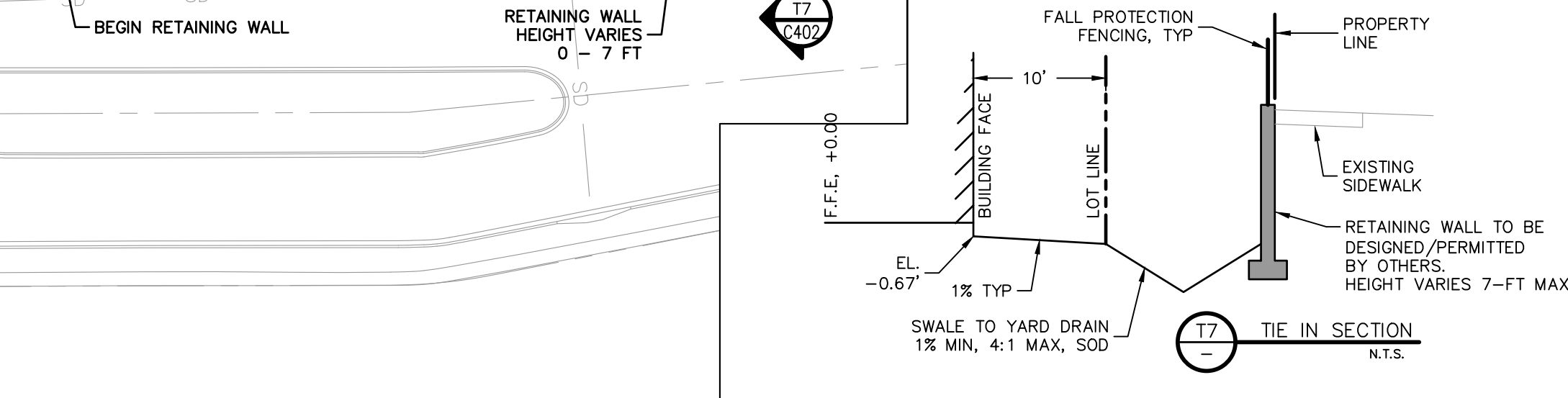
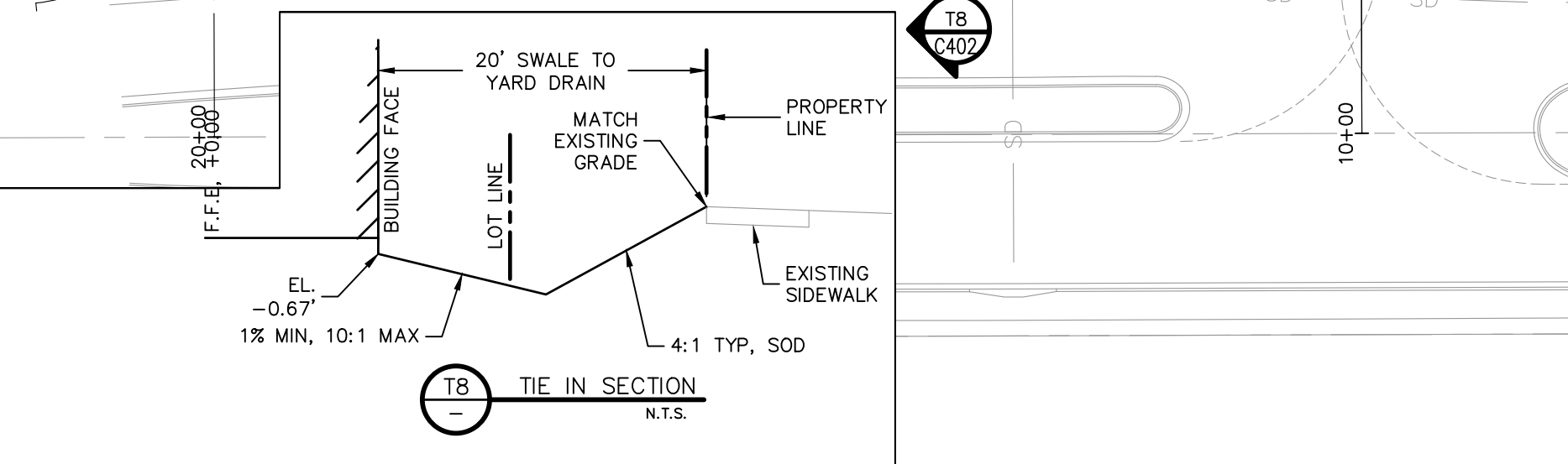
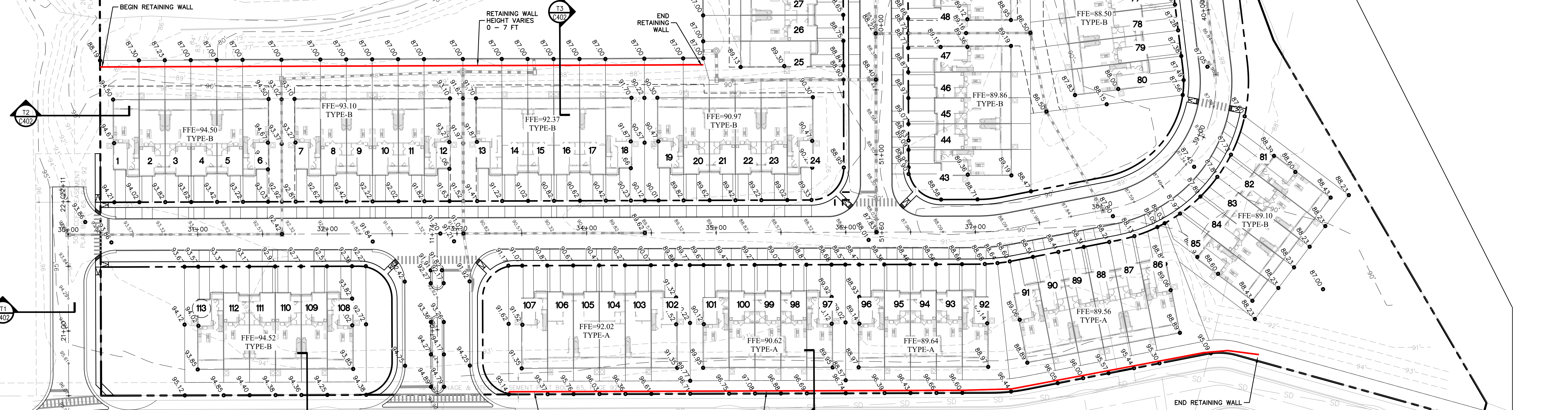
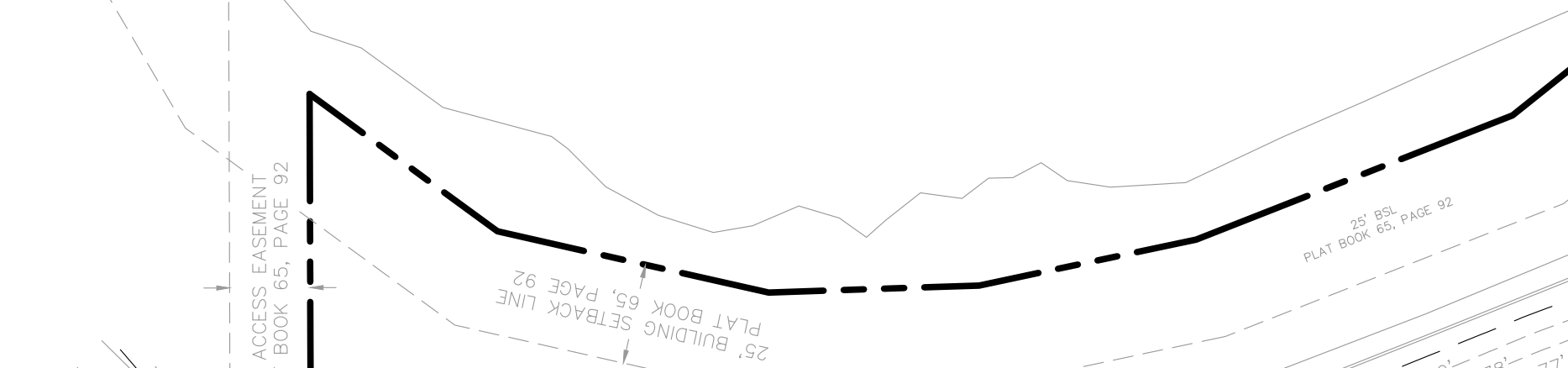
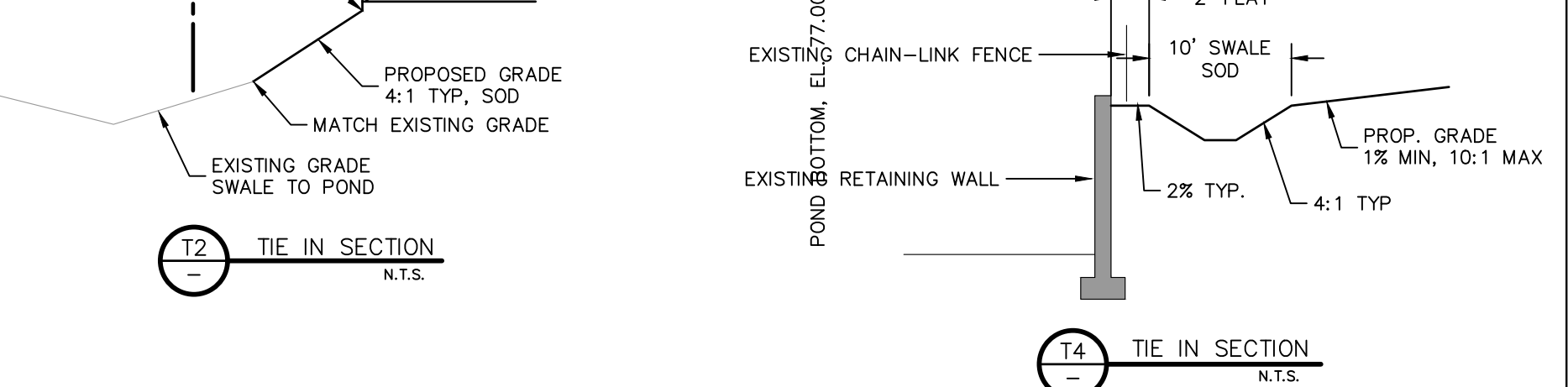
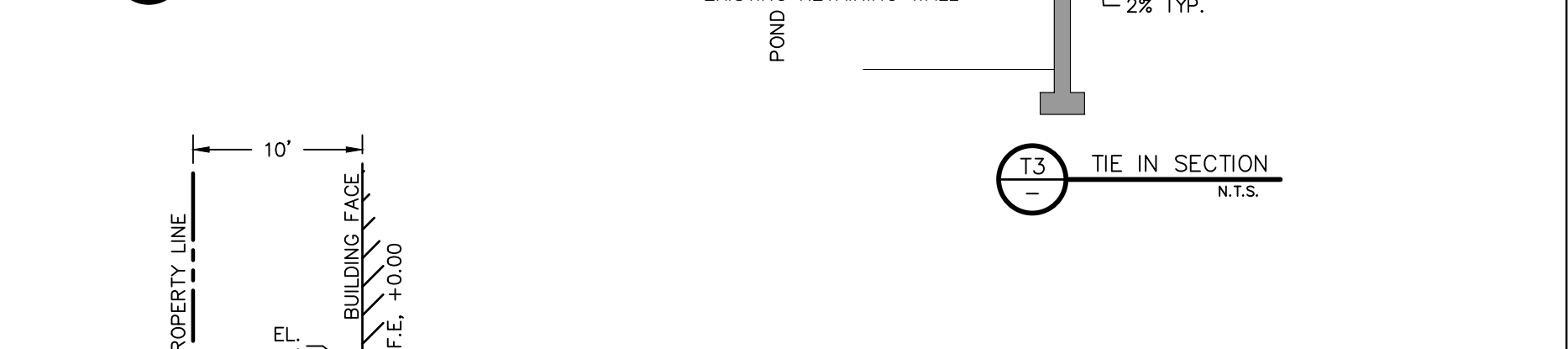
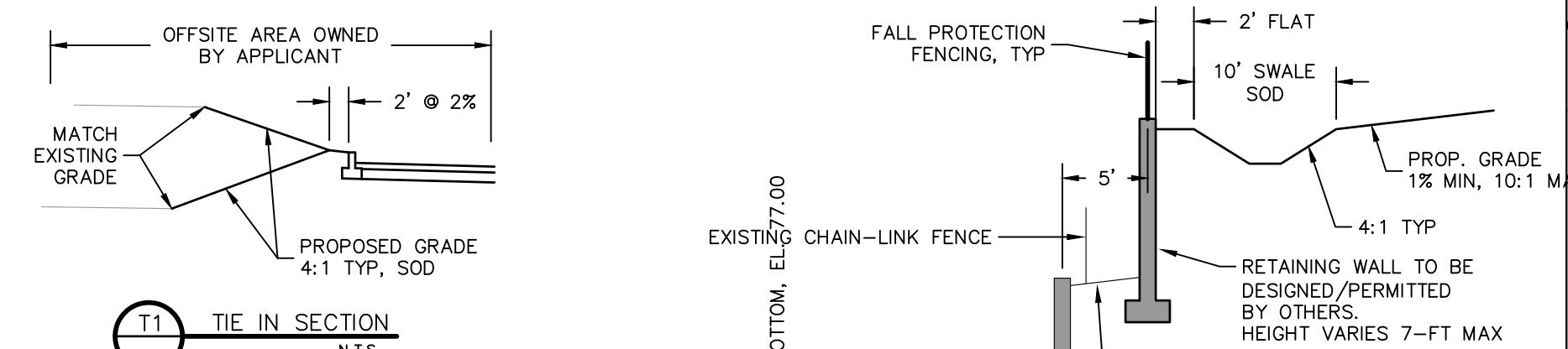
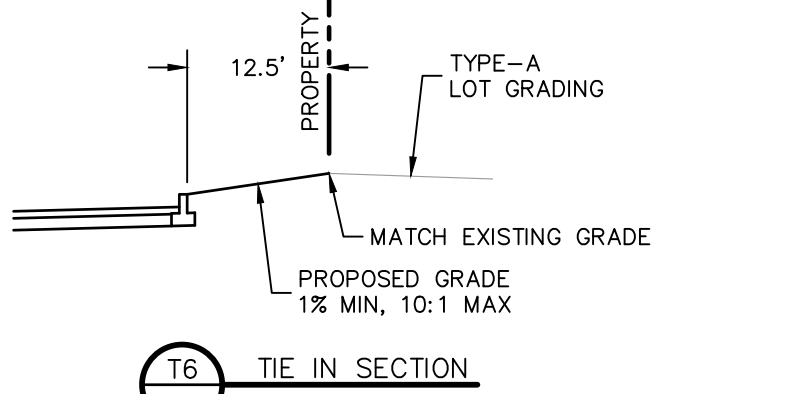
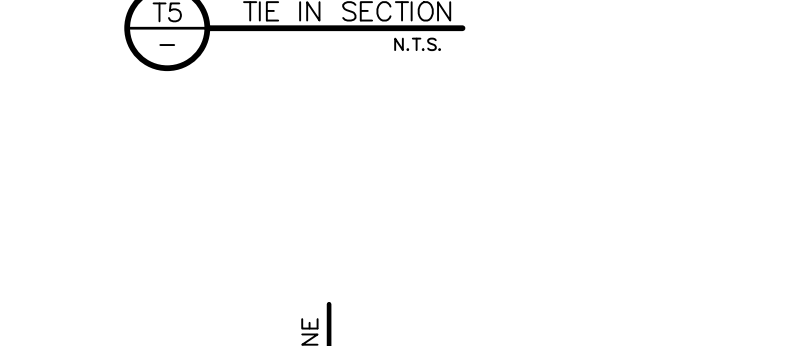
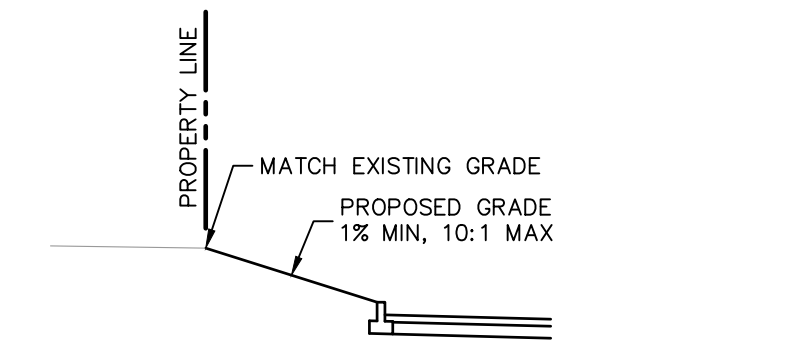
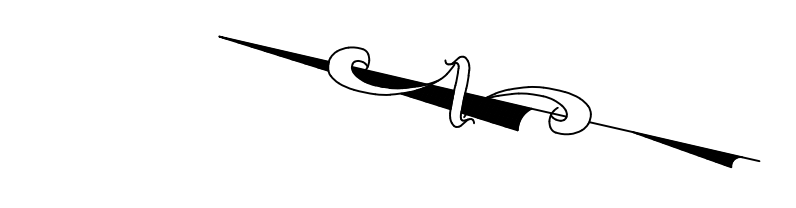
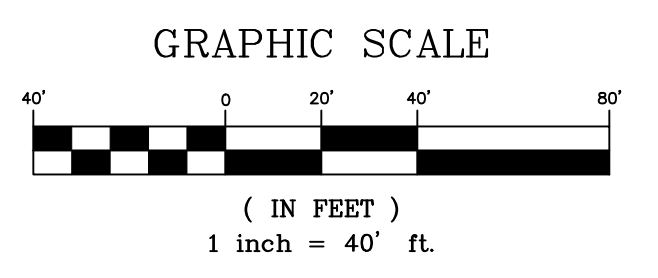
**D. R. HORTON**  
10192 DOWNEY RD., SUITE 150  
ORLANDO, FL 32832  
(407) 850-5245

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

NO.	DATE	REVISIONS

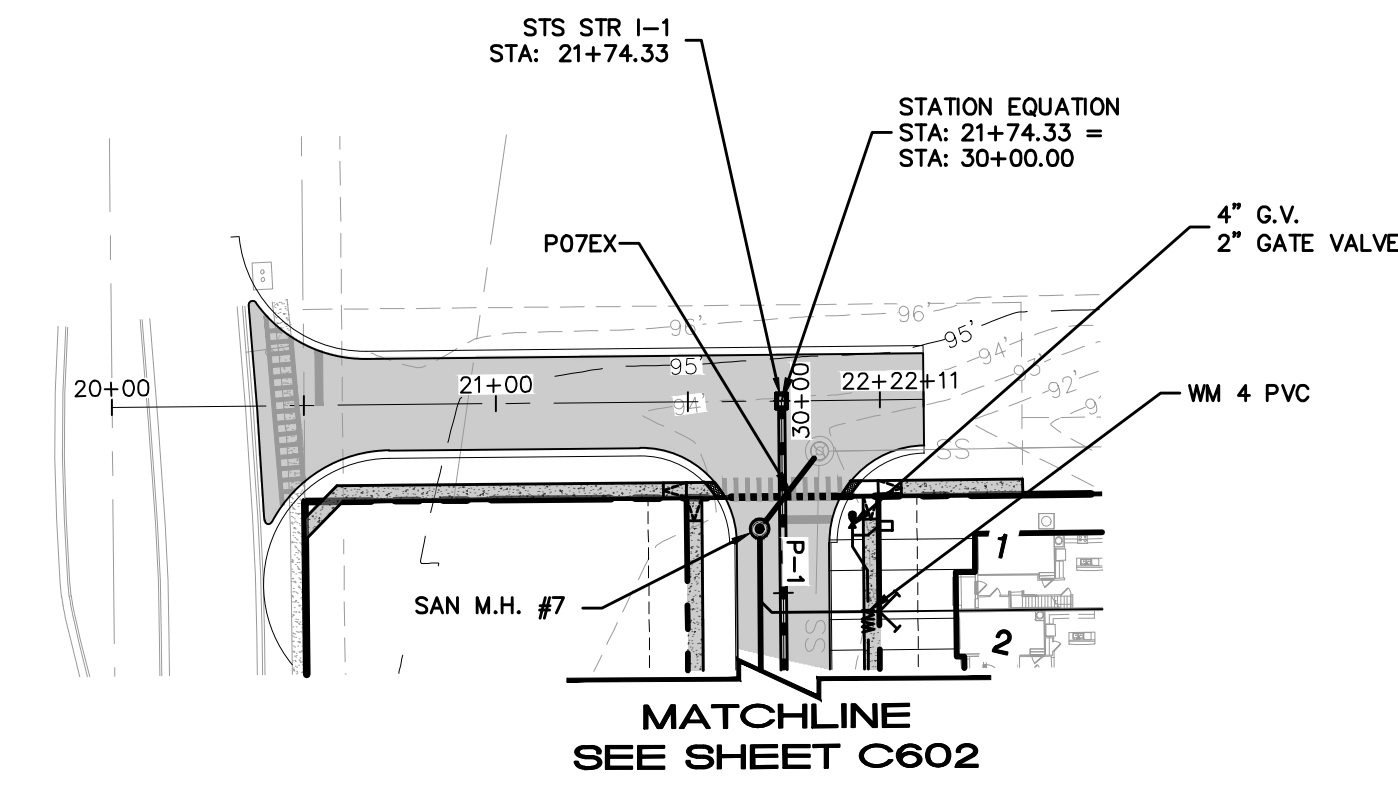
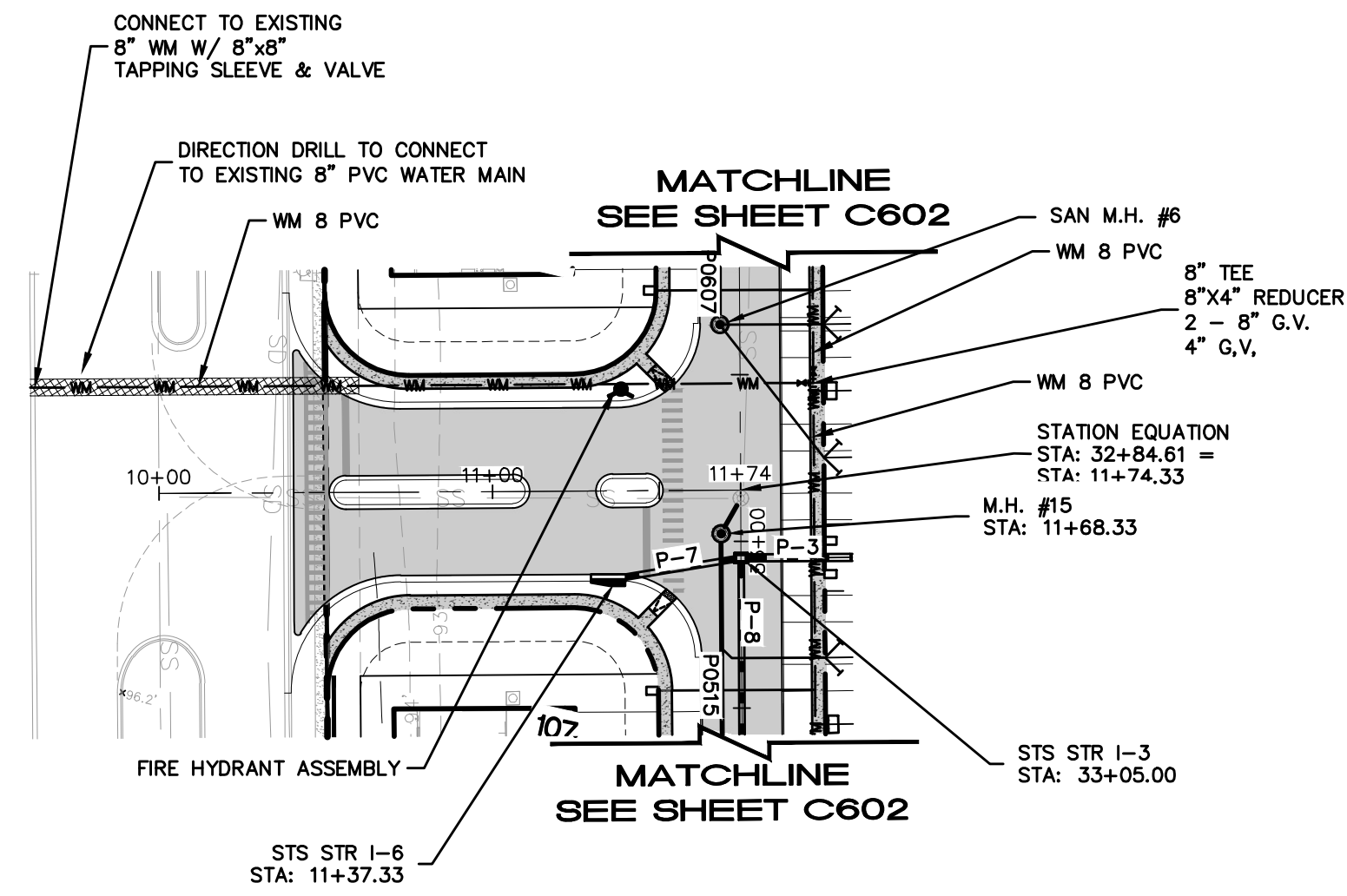
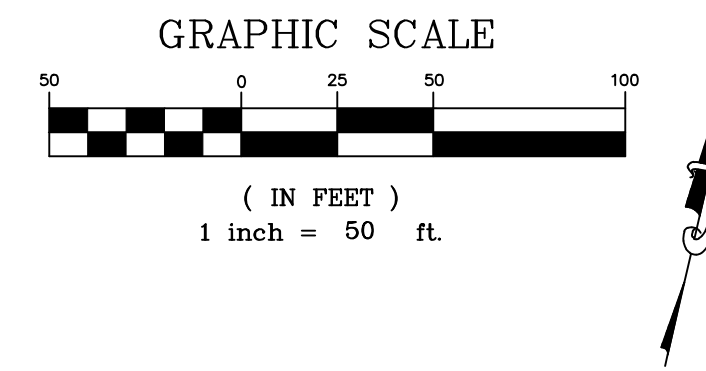
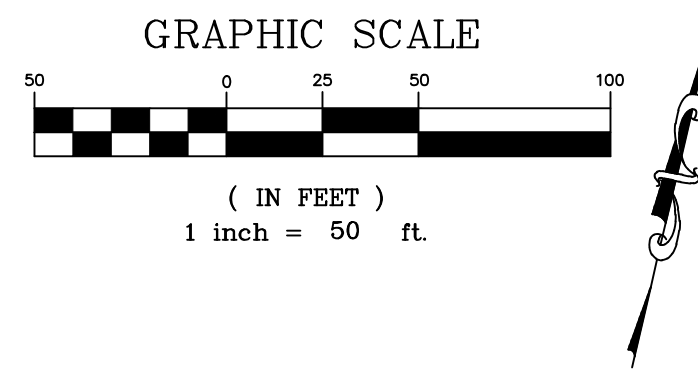
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SCALE: 1" = 40'  
DESIGNED BY: BSB  
DRAWN BY: JAS  
APPROVED BY: BSB

C401



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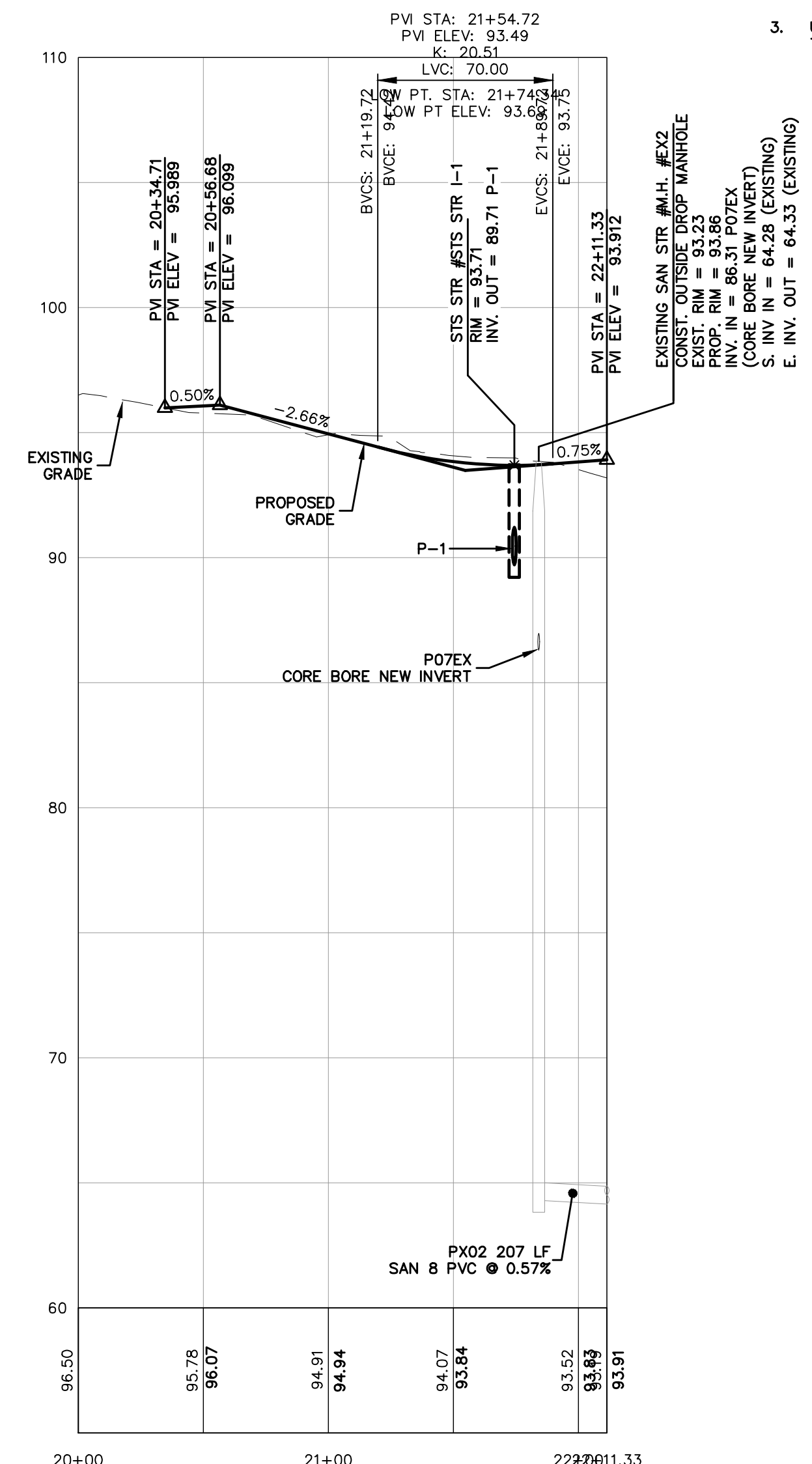
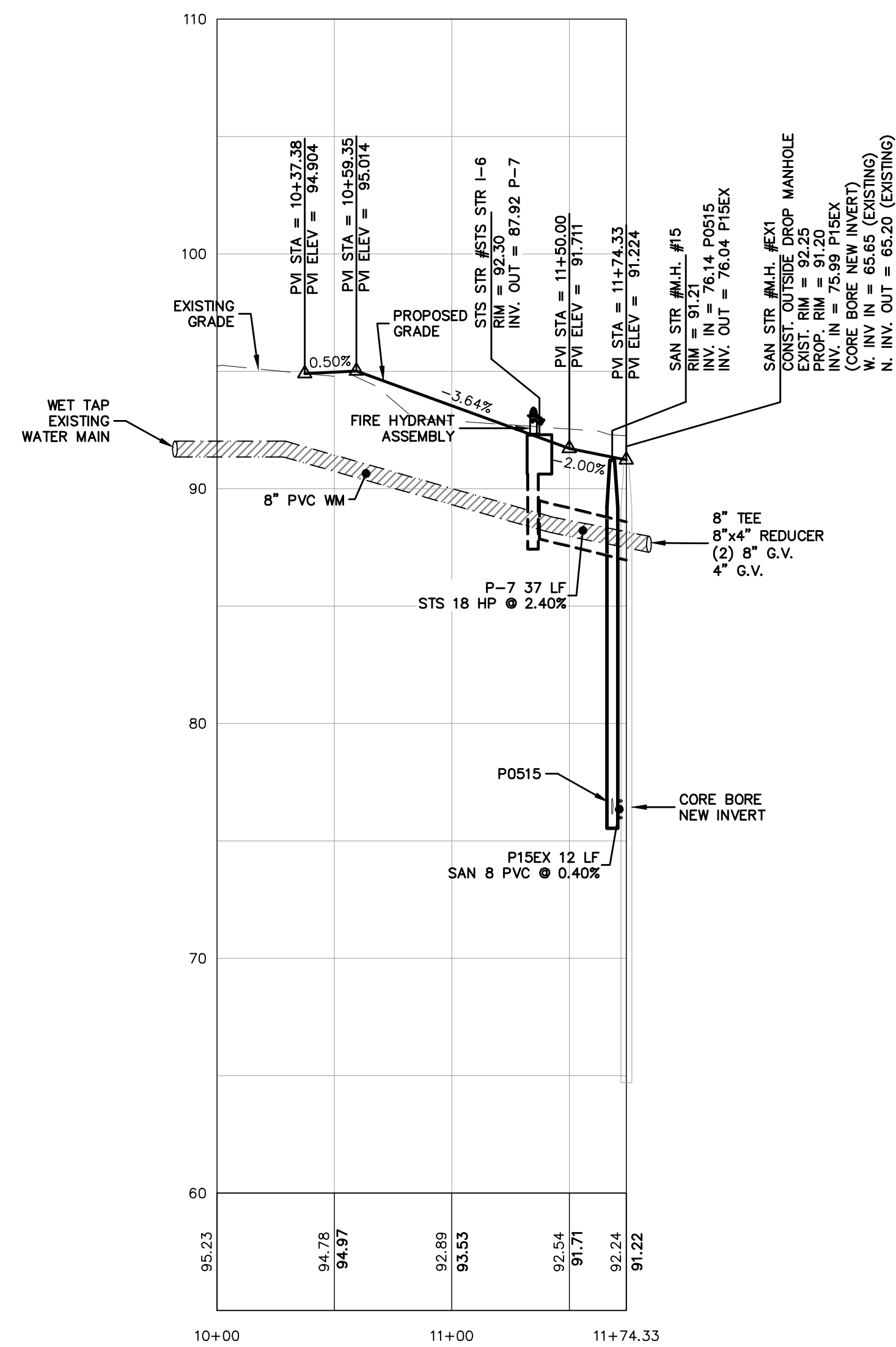
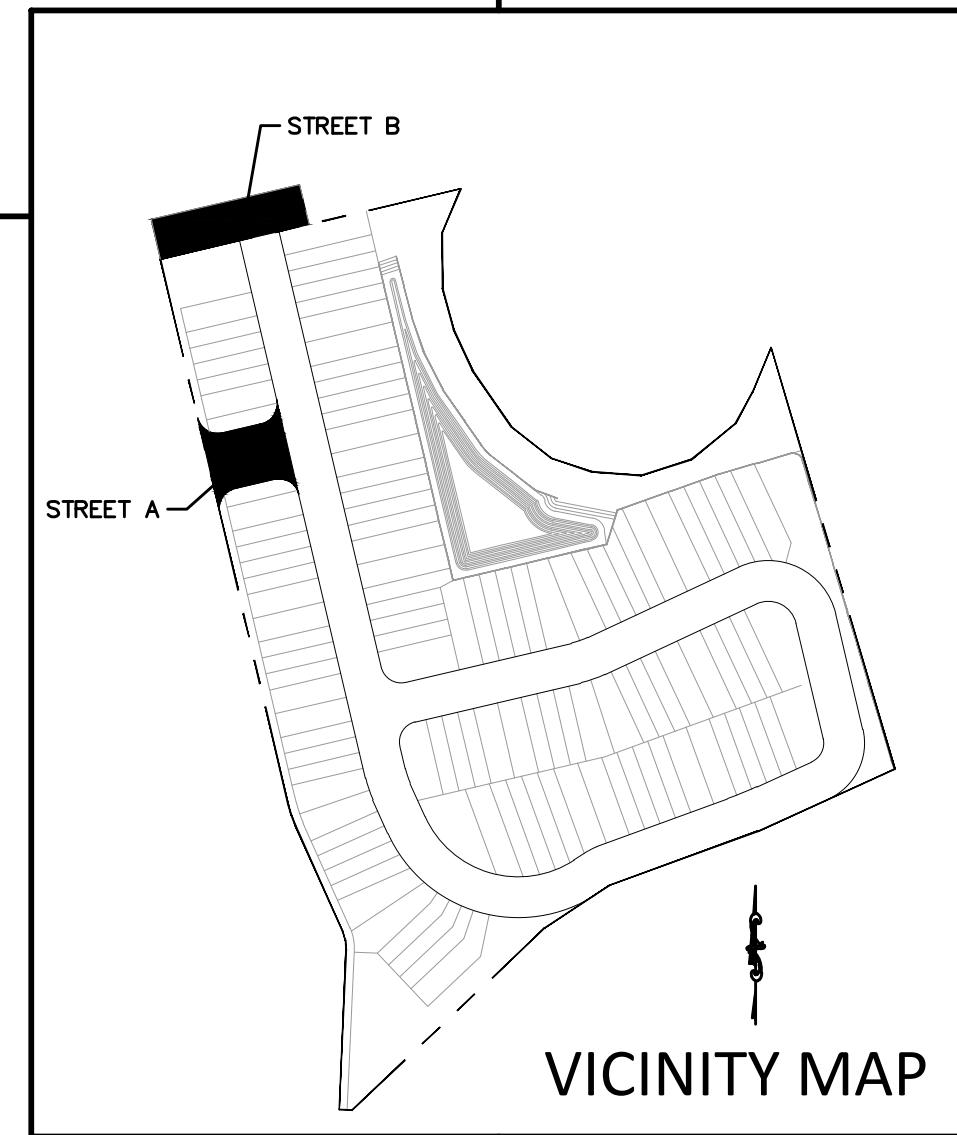




TYPICAL UTILITY LEGEND	
SYMBOL	DESCRIPTION
	FIRE HYDRANT ASSEMBLY
	DOUBLE SANITARY SERVICE
	SINGLE SANITARY SERVICE
	DOUBLE WM SERVICE
	SINGLE WM SERVICE
	DOUBLE RWM SERVICE
	SINGLE RWM SERVICE
	GATE VALVE
	WM OR RWM CROSS
	WM OR RWM TEE
	BLOW-OFF AND VALVE

STREET 'A'

STREET 'B'



- NOTE:
- ELEVATIONS AND GRADES ARE BASED ON THE NAVD 88 SITE DATUM
  - 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.

431 E. Horatio Avenue  
Suite 260  
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(407) 629-8330

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

D. R. HORTON  
10192 DOWDEN RD., SUITE 150  
ORLANDO, FL 32832  
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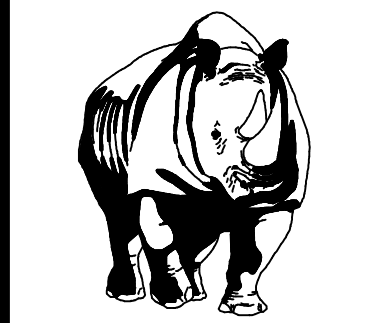
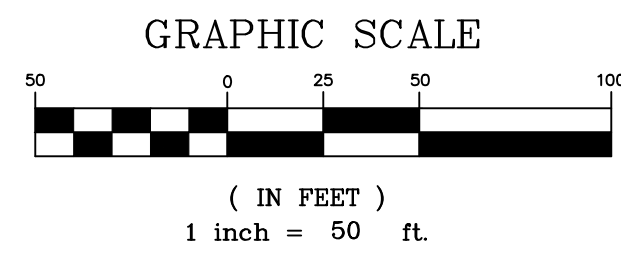
ENGINEER BENJAMIN S. BECKHAM  
No. 79452  
STATE OF FLORIDA  
DA TECHNICAL REGISTRATION NO. CA-0007723  
CERTIFICATE OF AUTHORIZATION

NO.	DATE	REVISIONS
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JOB # 21052  
DATE: 10/22/2021  
SCALE: 1" = 50'  
DESIGNED BY: BSB  
DRAWN BY: JAS  
APPROVED BY: BSB

C601

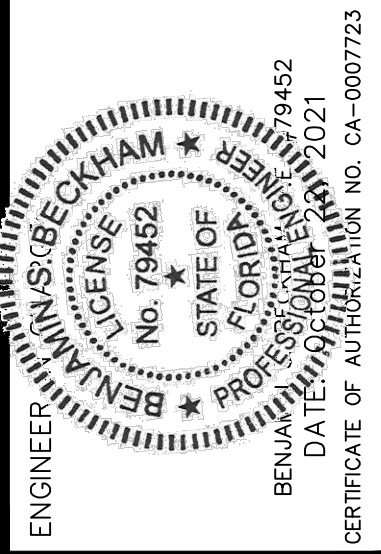
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PLAN AND PROFILE  
FOR  
**VENEZIA TOWNHOMES**  
LAKE COUNTY  
HOWEY-IN-THE-HILLS, FLORIDA

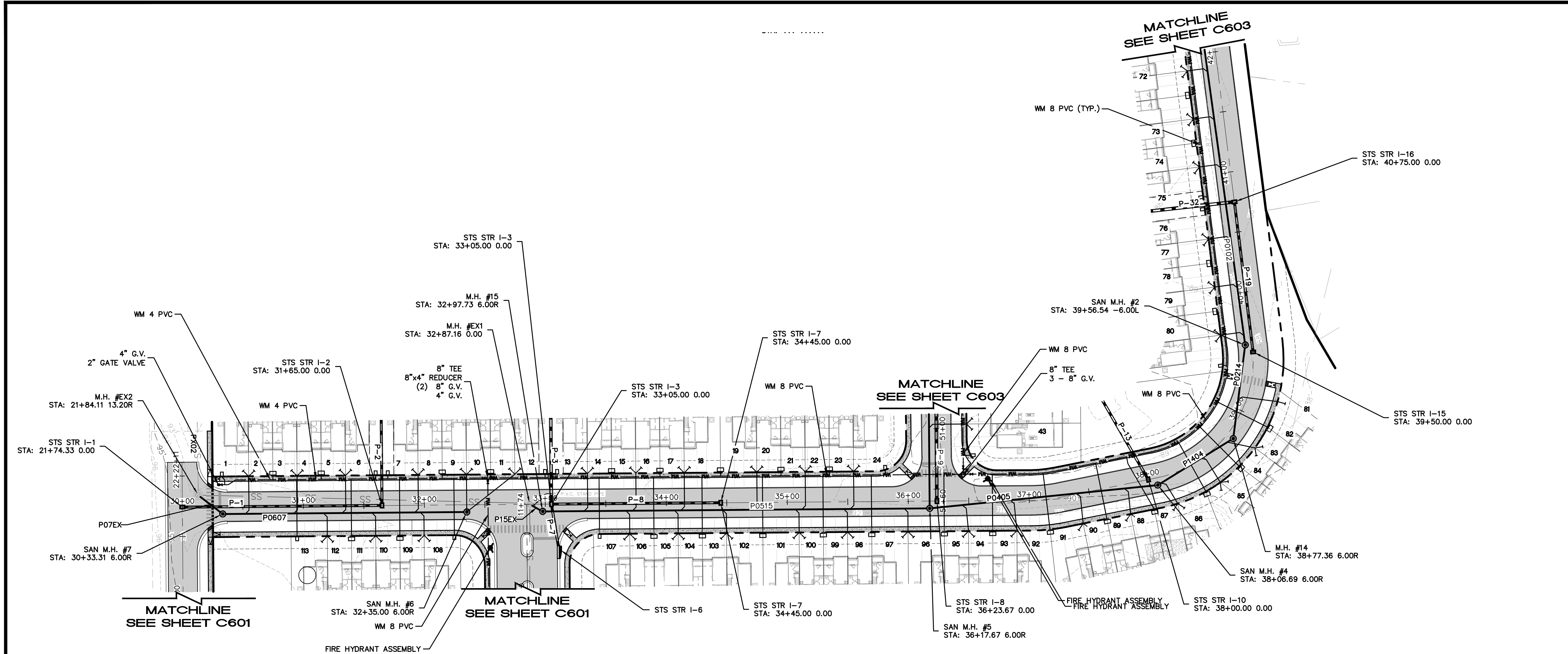
**D. R. HORTON**  
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ORLANDO, FL 32832  
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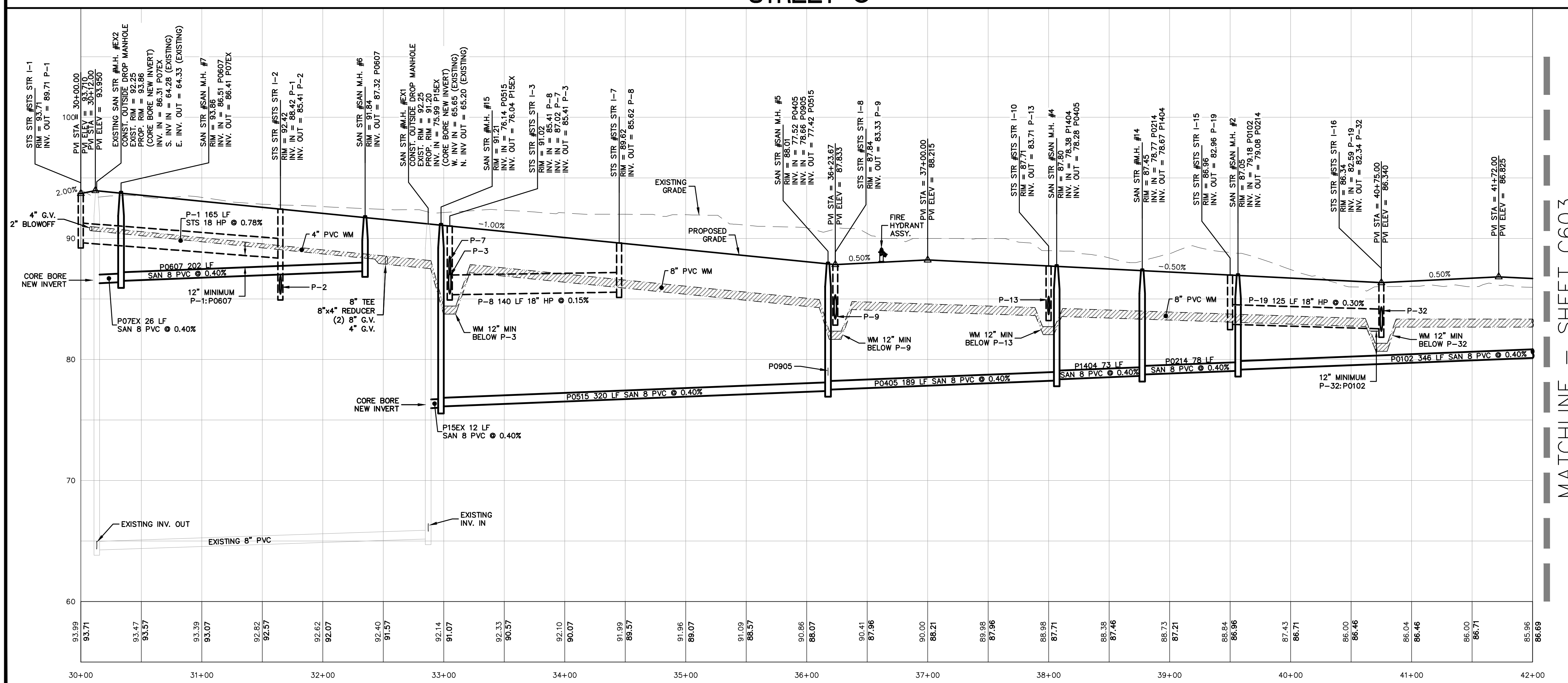
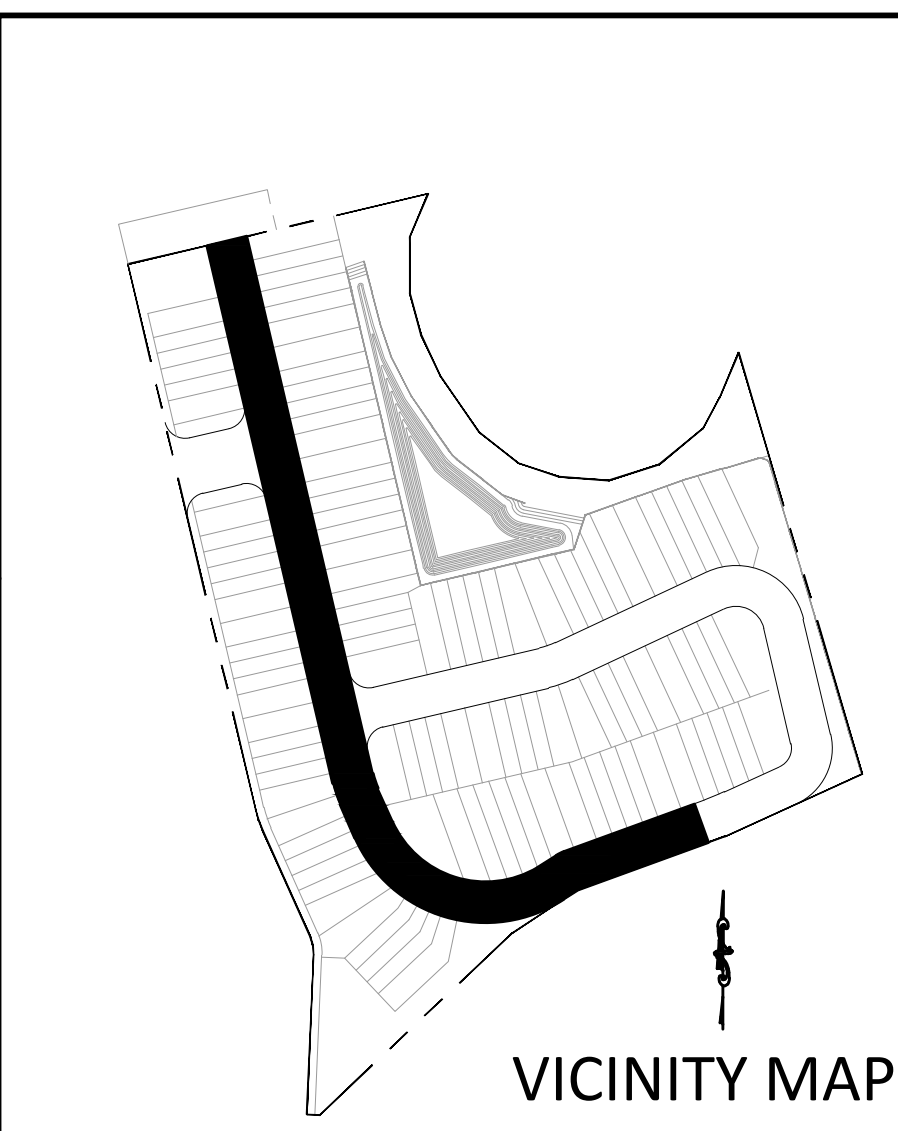
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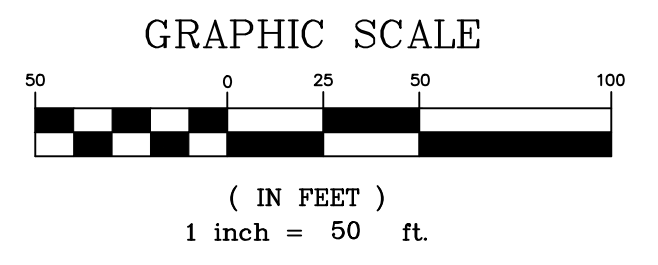
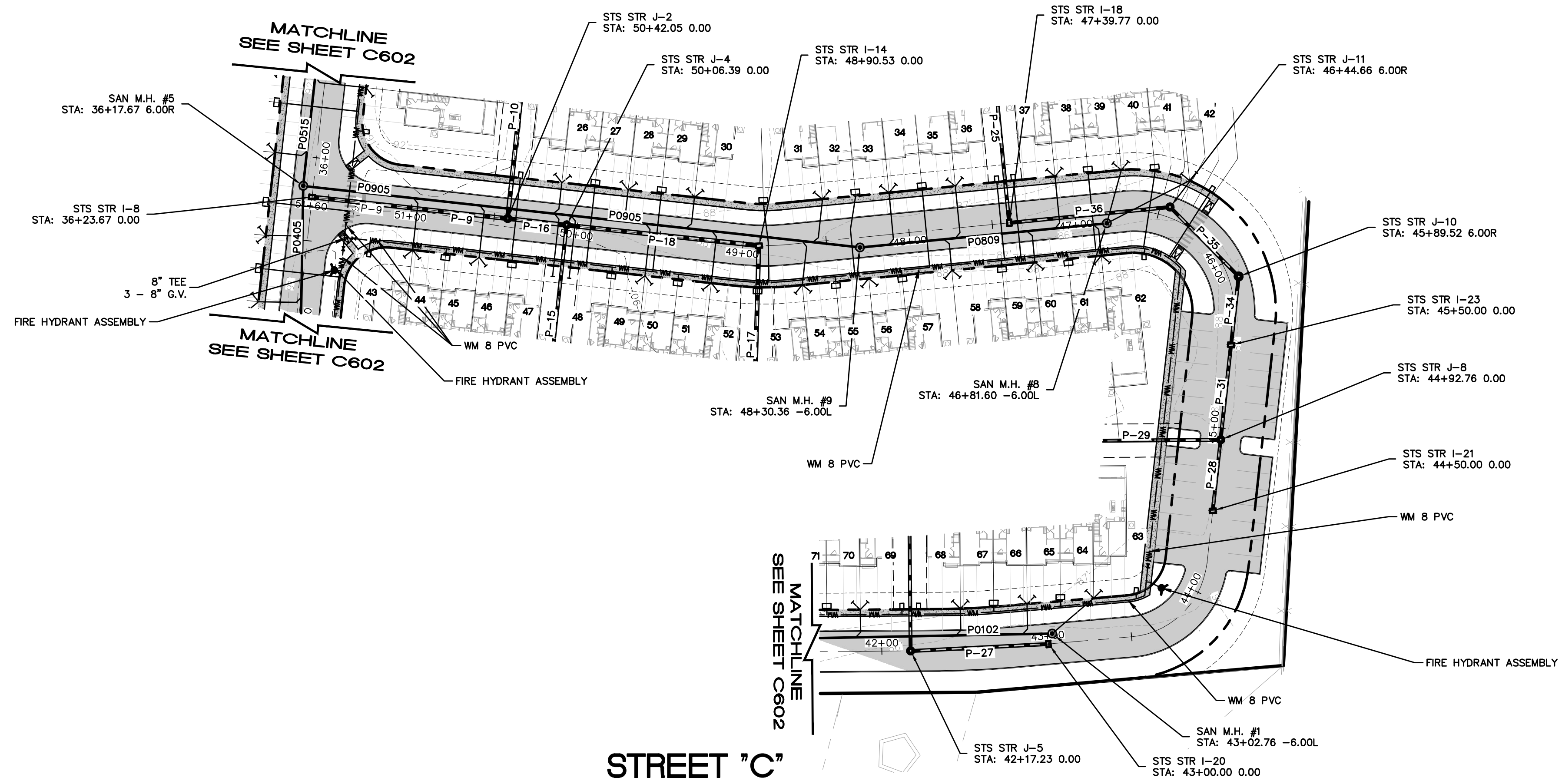
**C602**



- NOTE:
- ELEVATIONS AND GRADES ARE BASED ON THE NAVD 88 SITE DATUM
  - 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.



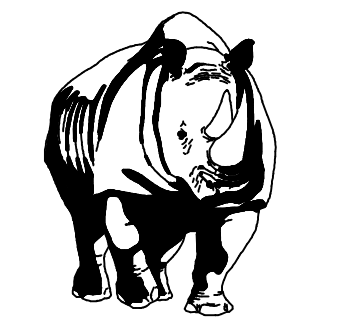
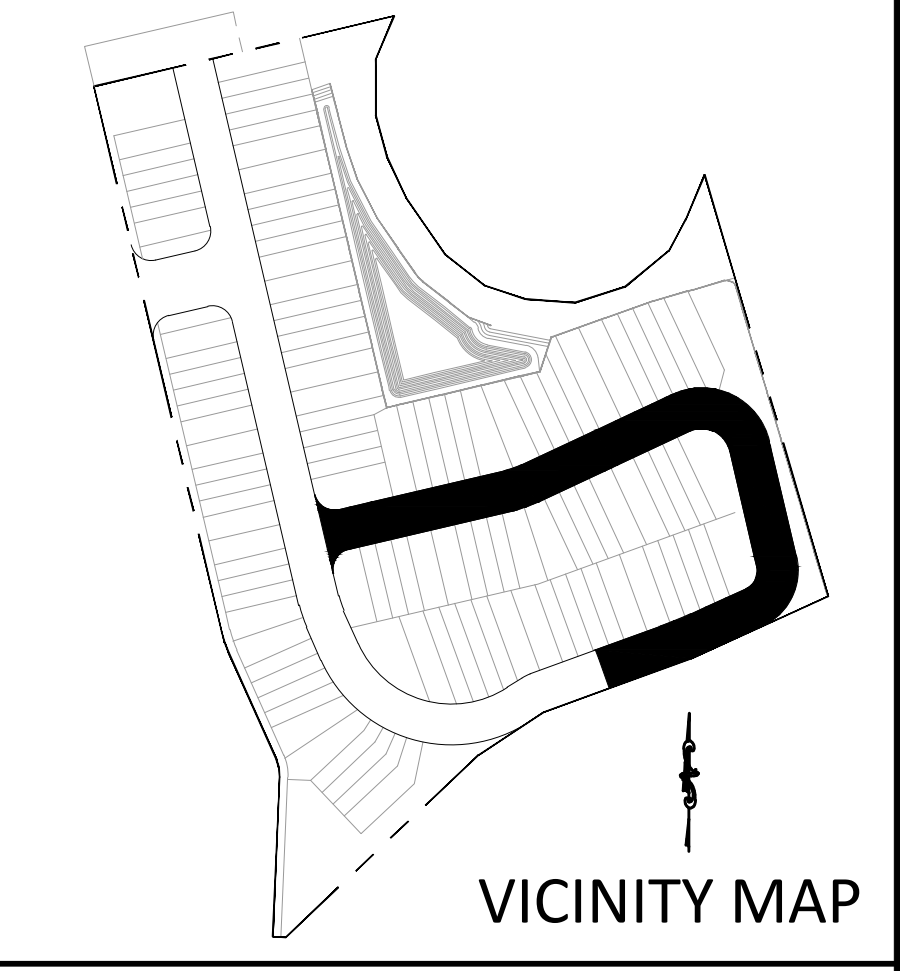
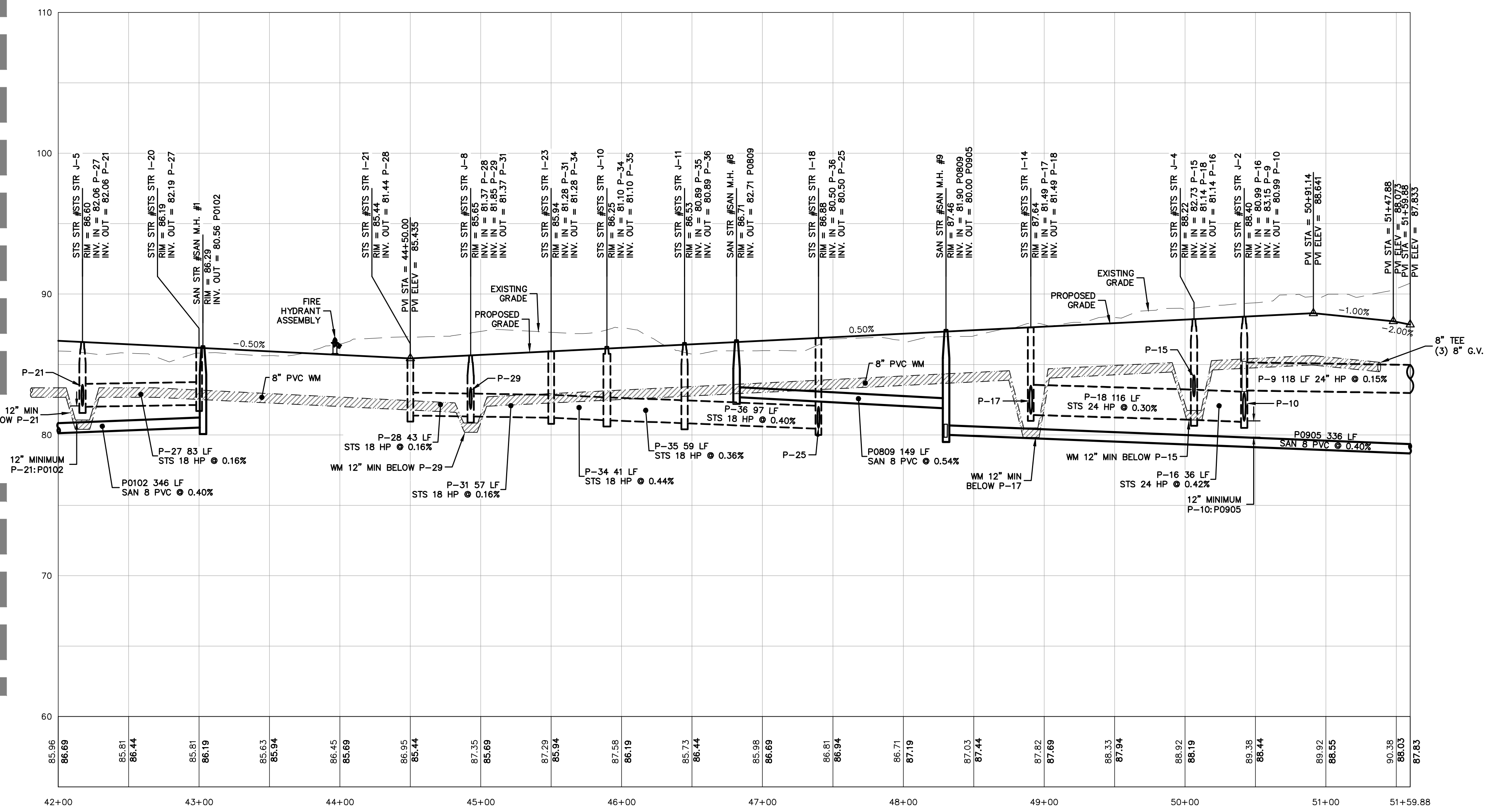
MATCHLINE - SHEET C603



TYPICAL UTILITY LEGEND	
SYMBOL	DESCRIPTION
	FIRE HYDRANT ASSEMBLY
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	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

- NOTE:
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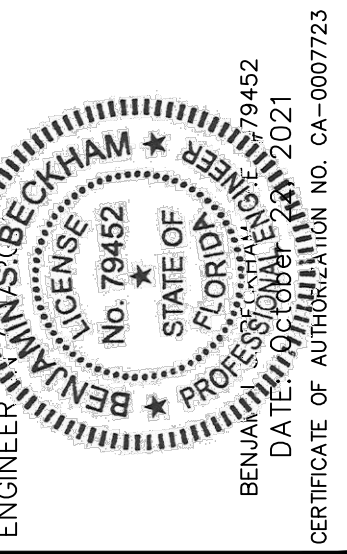
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(407) 629-8330

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

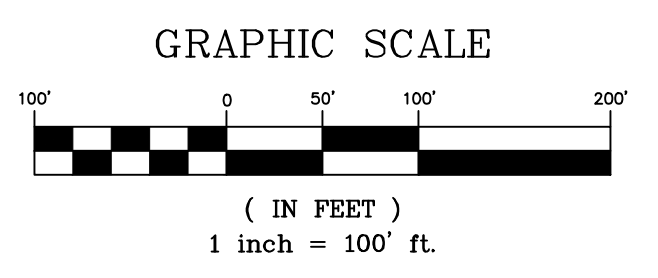
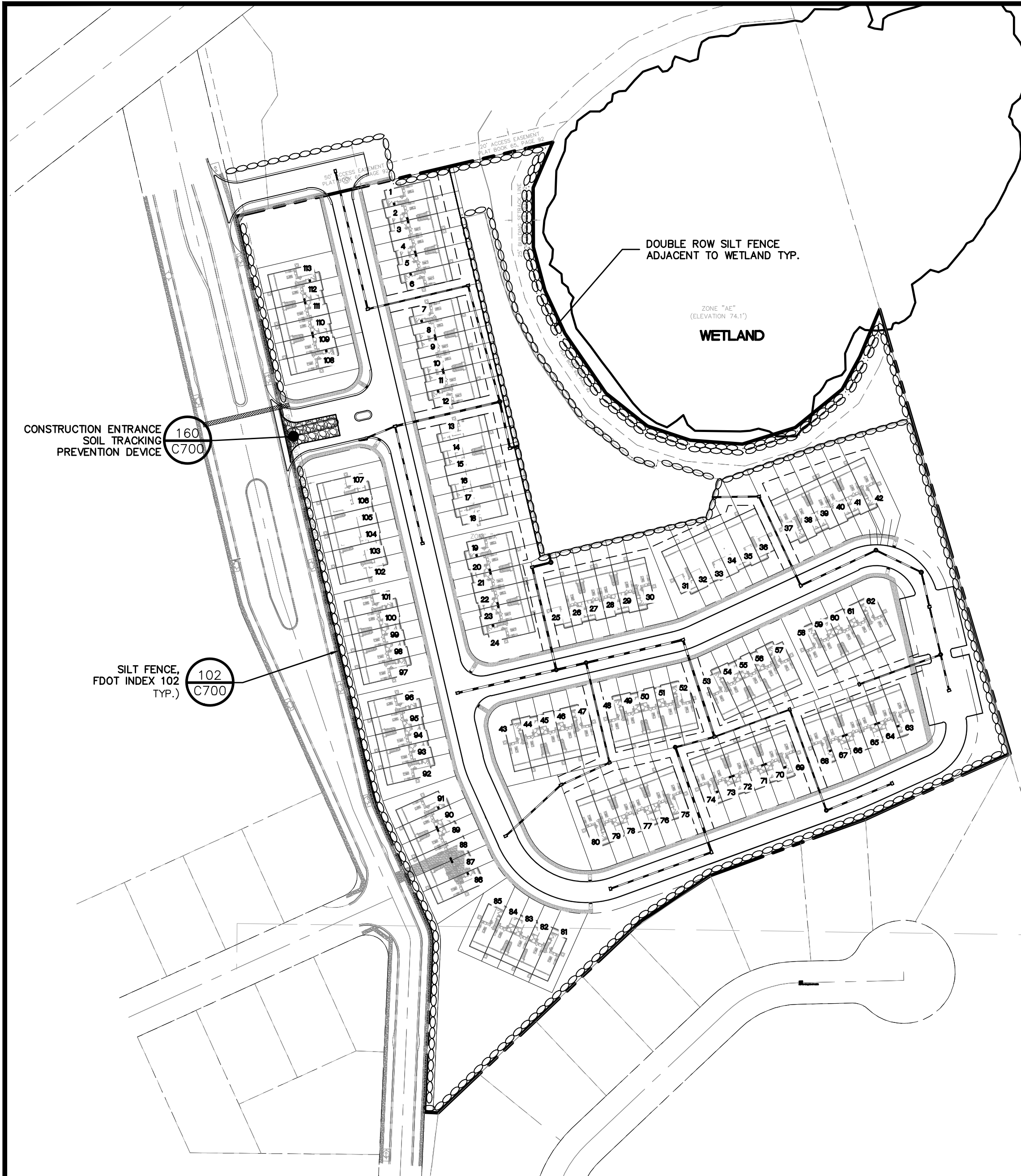
**D. R. HORTON**  
10192 DOWDEN RD., SUITE 150  
ORLANDO, FL 32832  
(407) 850-5245



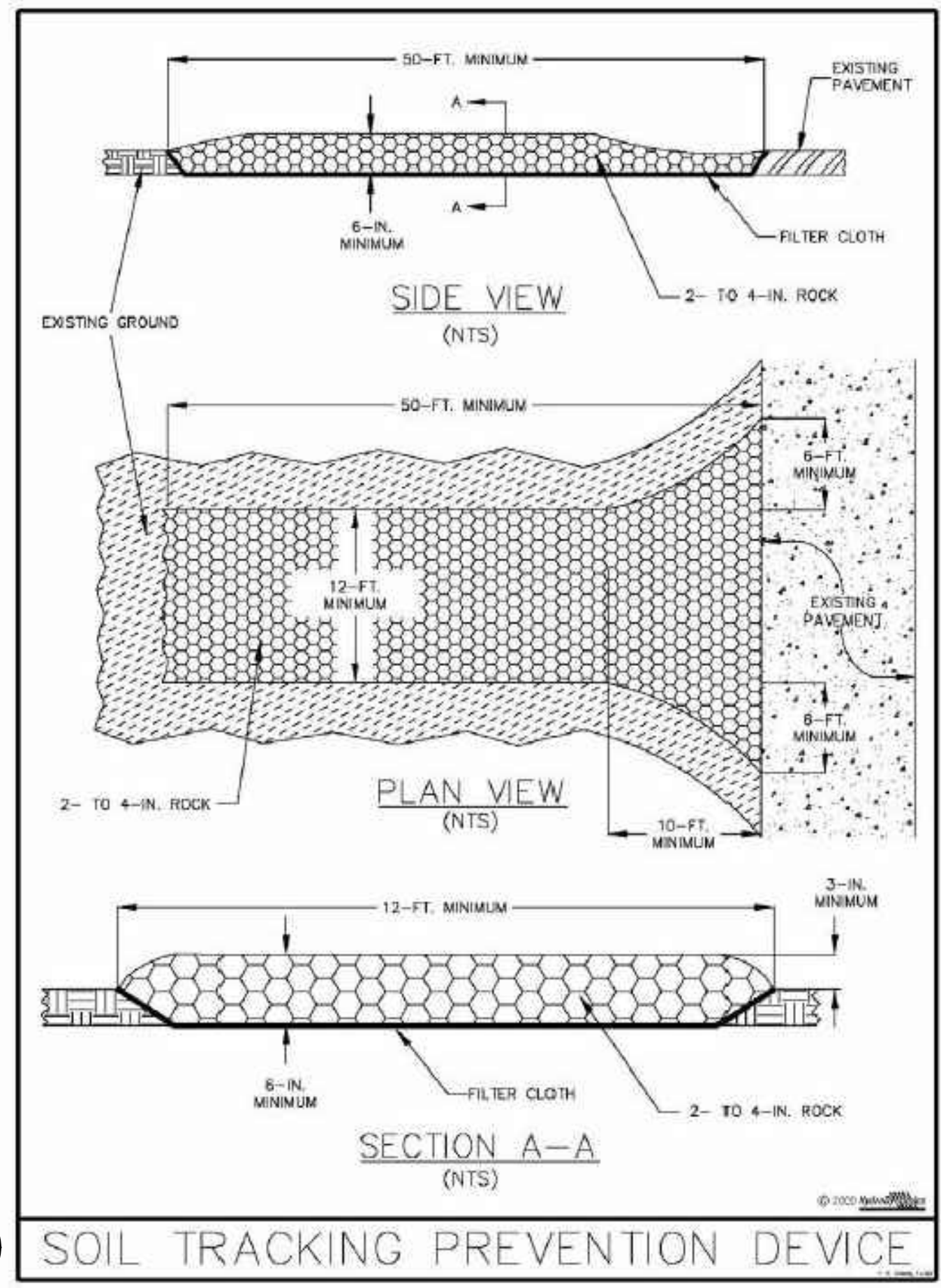
NO.	DATE	REVISIONS
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JOB # 21052  
DATE: 10/22/2021  
SCALE: 1" = 50'  
DESIGNED BY: BSB  
DRAWN BY: JAS  
APPROVED BY: BSB

**C603**



STATE OF FLORIDA E&SC 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 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. STOCKPILED 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. ADDITIONAL 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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ADDRESS: \_\_\_\_\_ TELEPHONE: \_\_\_\_\_

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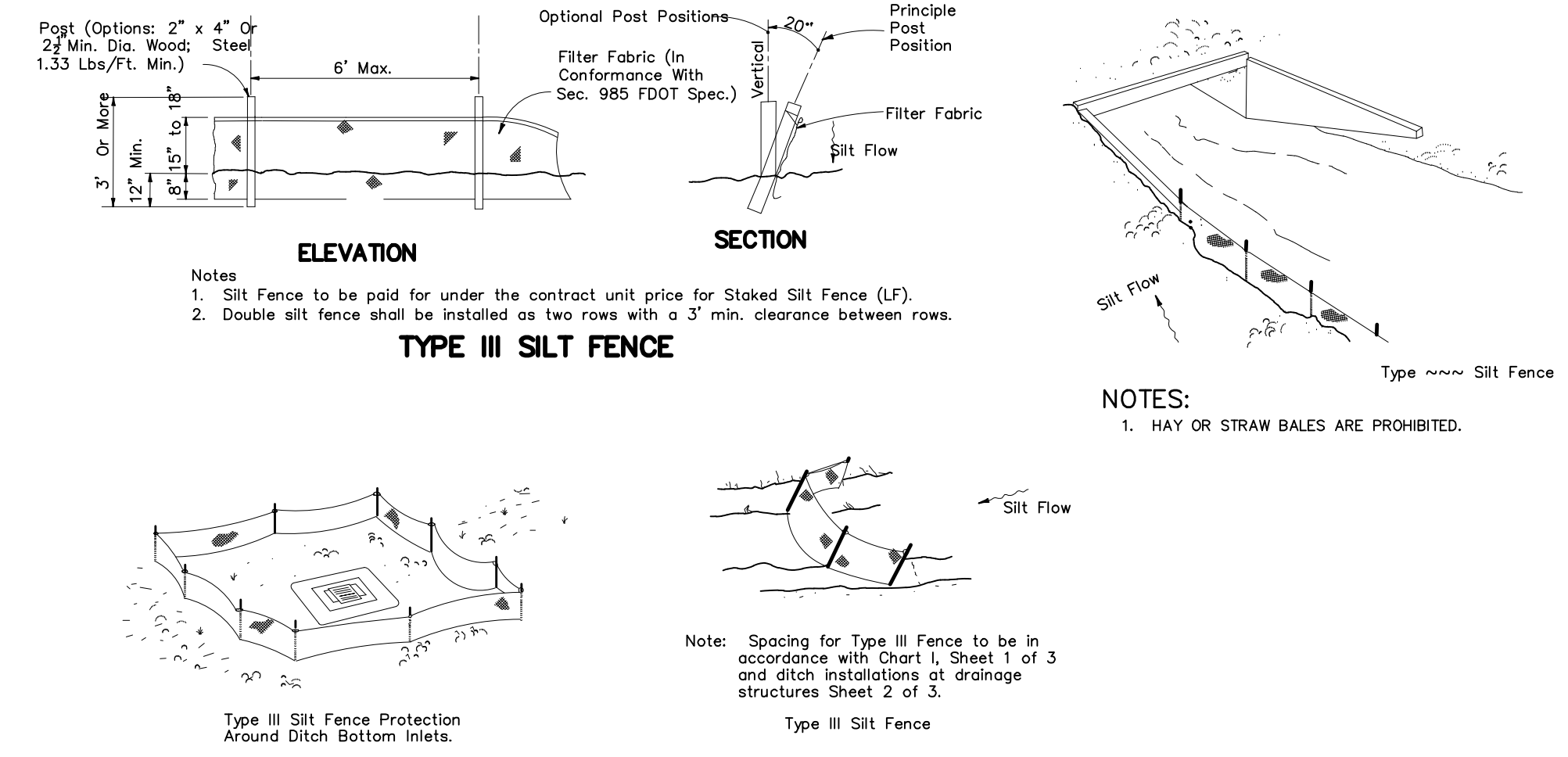
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ADDRESS: \_\_\_\_\_ TELEPHONE: \_\_\_\_\_

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NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ TELEPHONE: \_\_\_\_\_



**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.

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

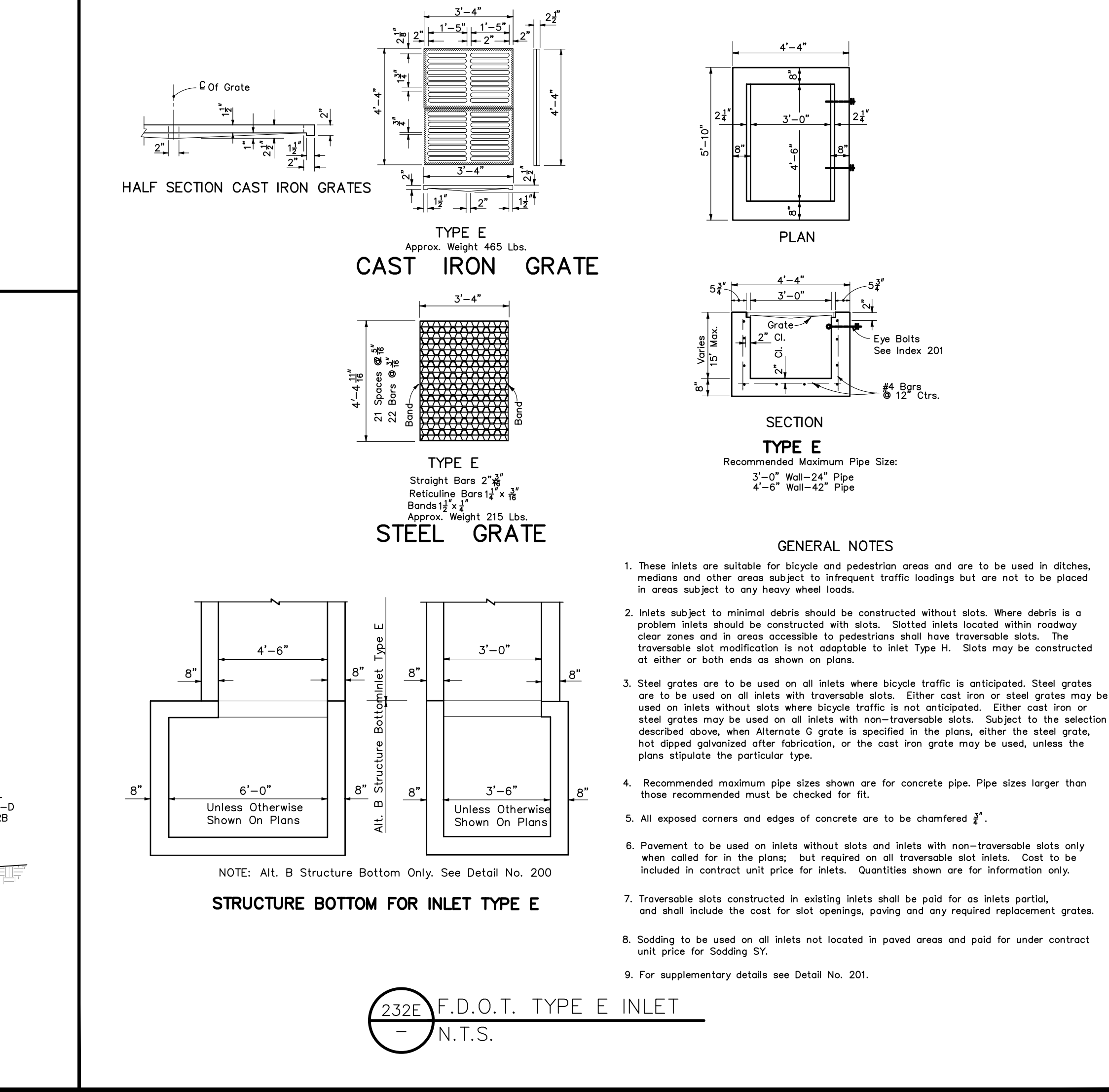
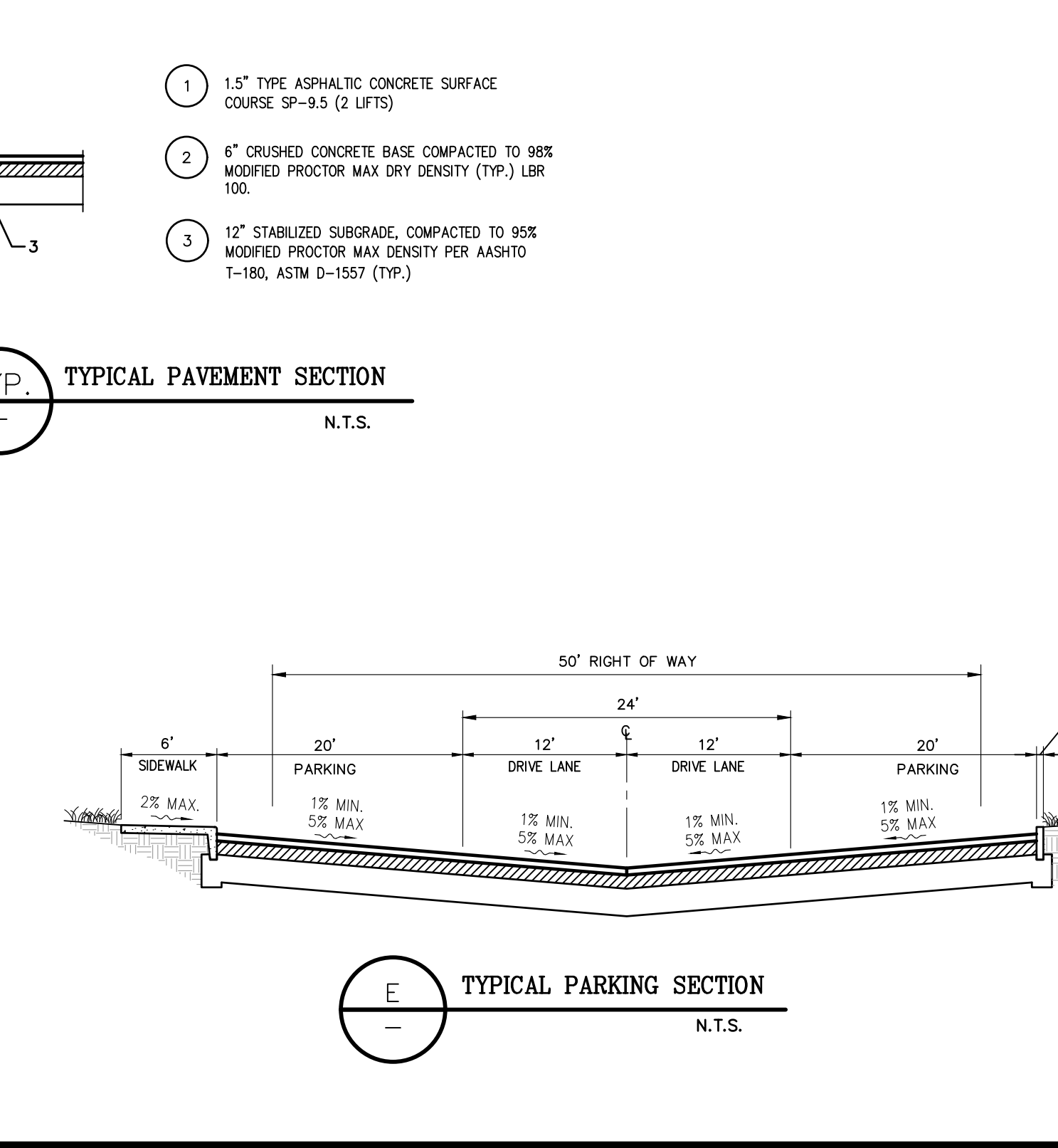
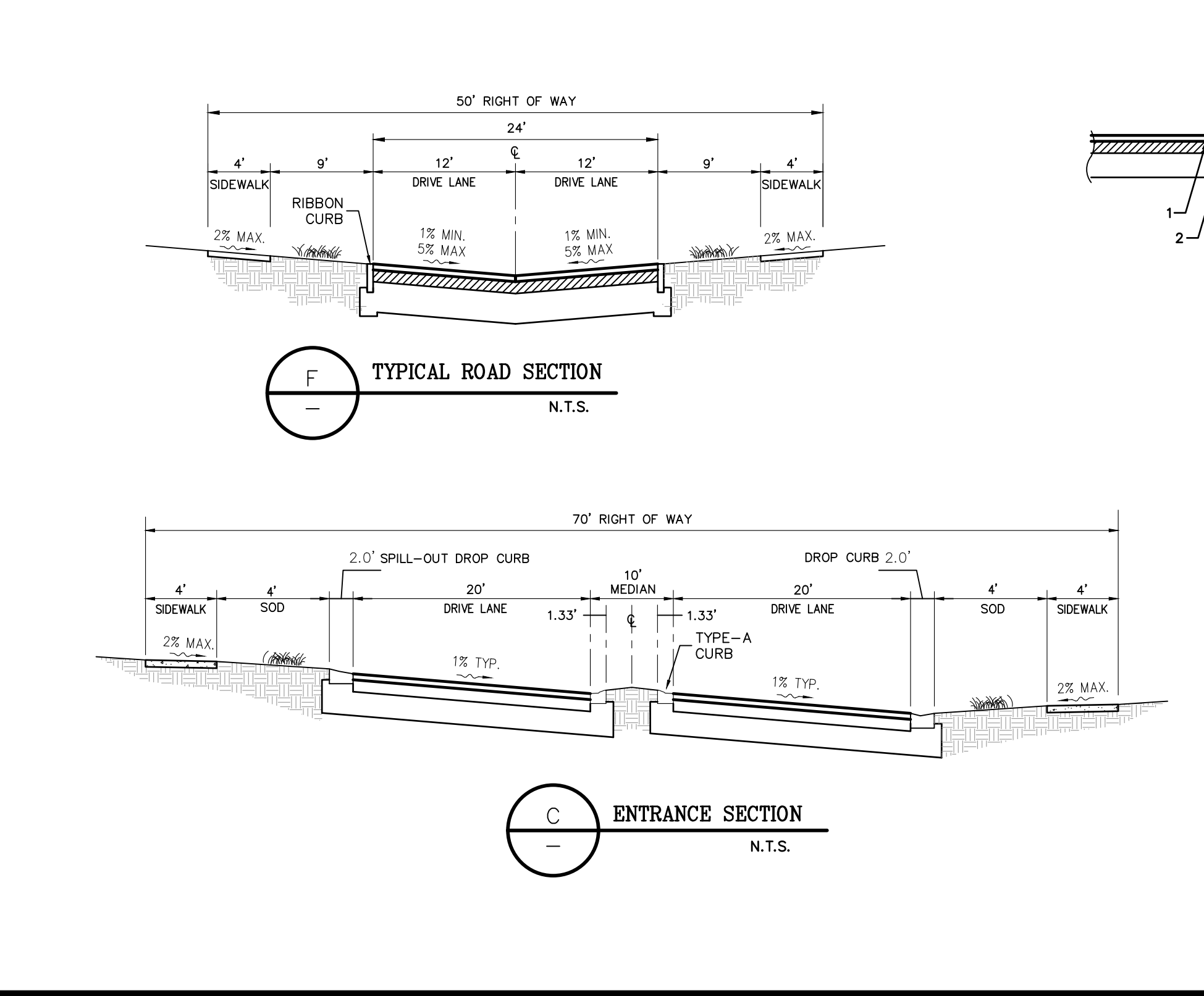
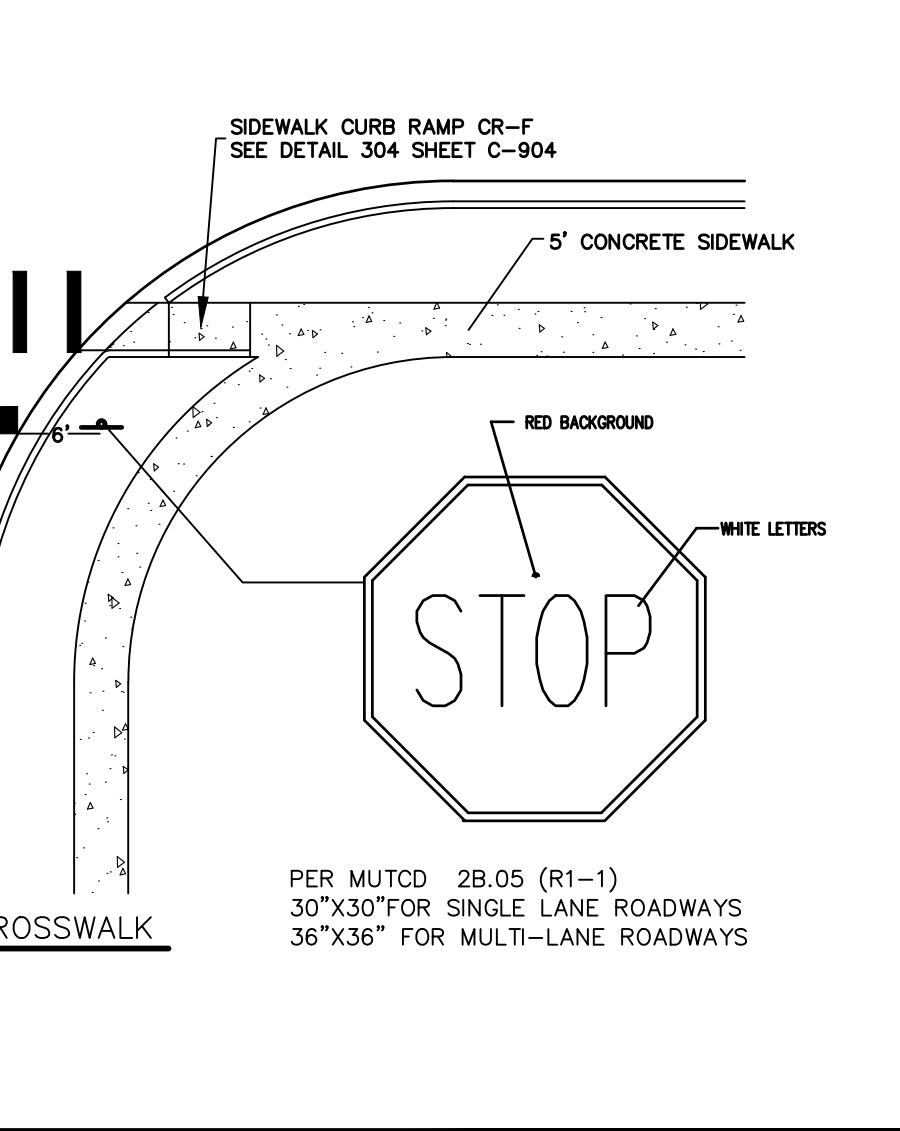
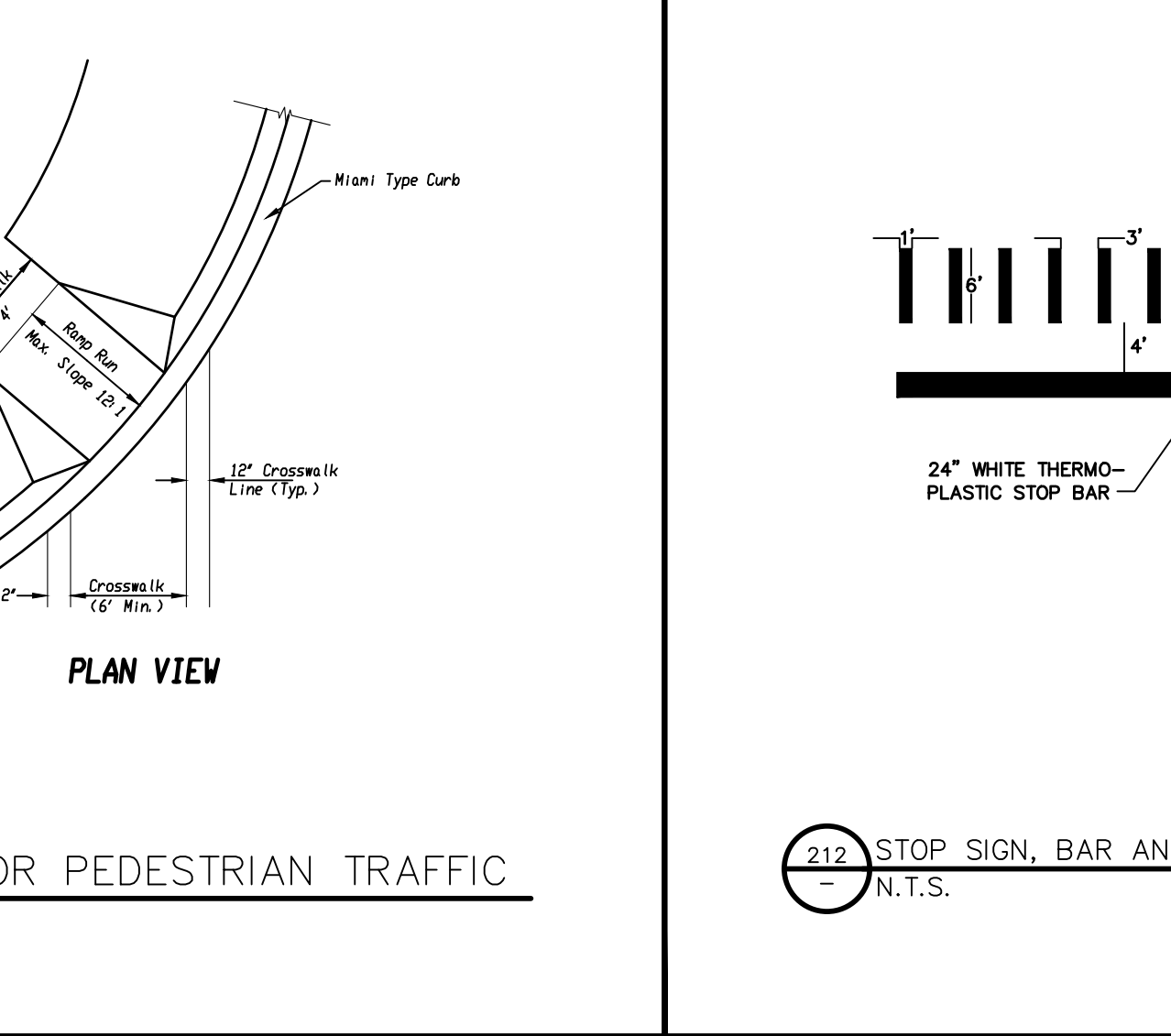
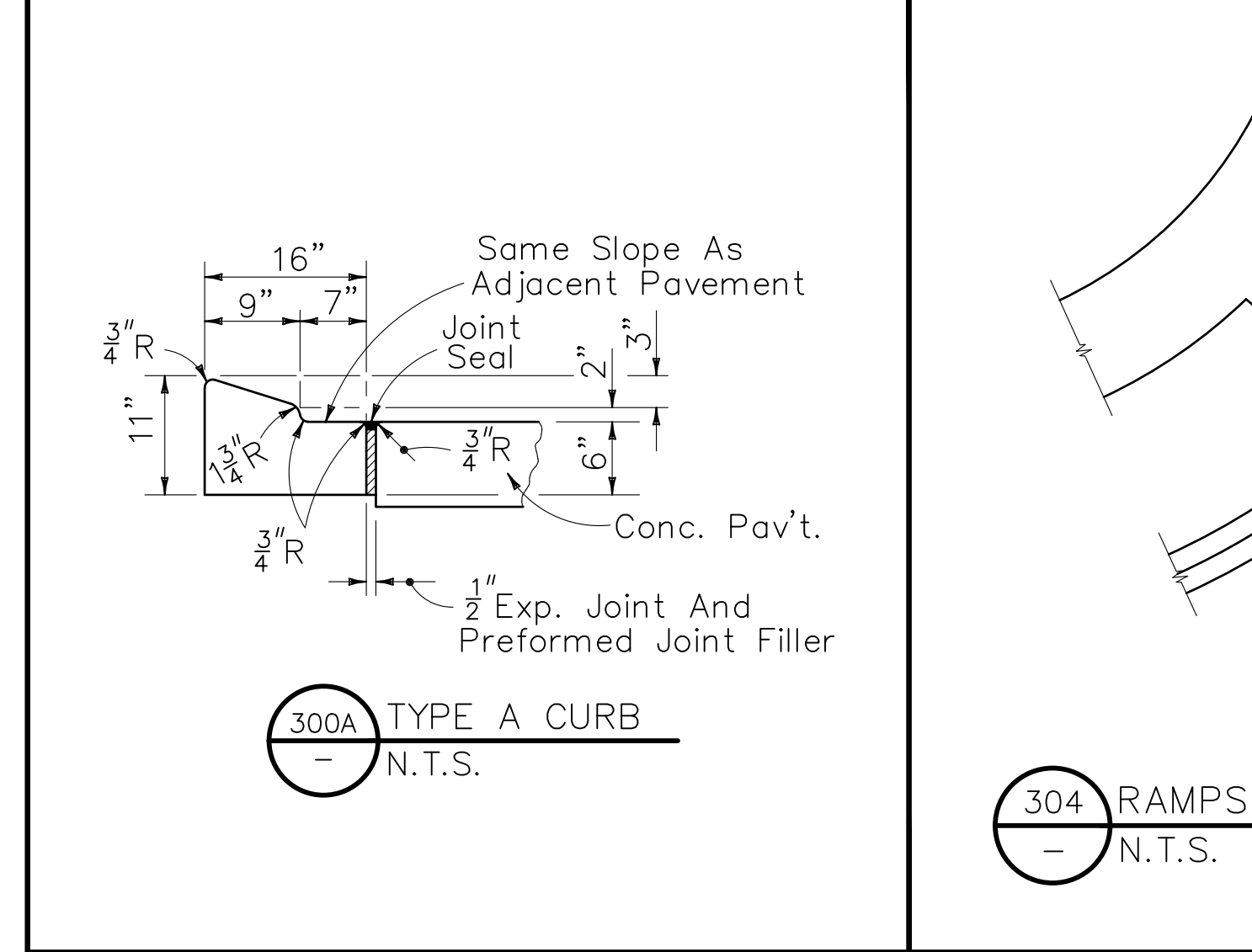
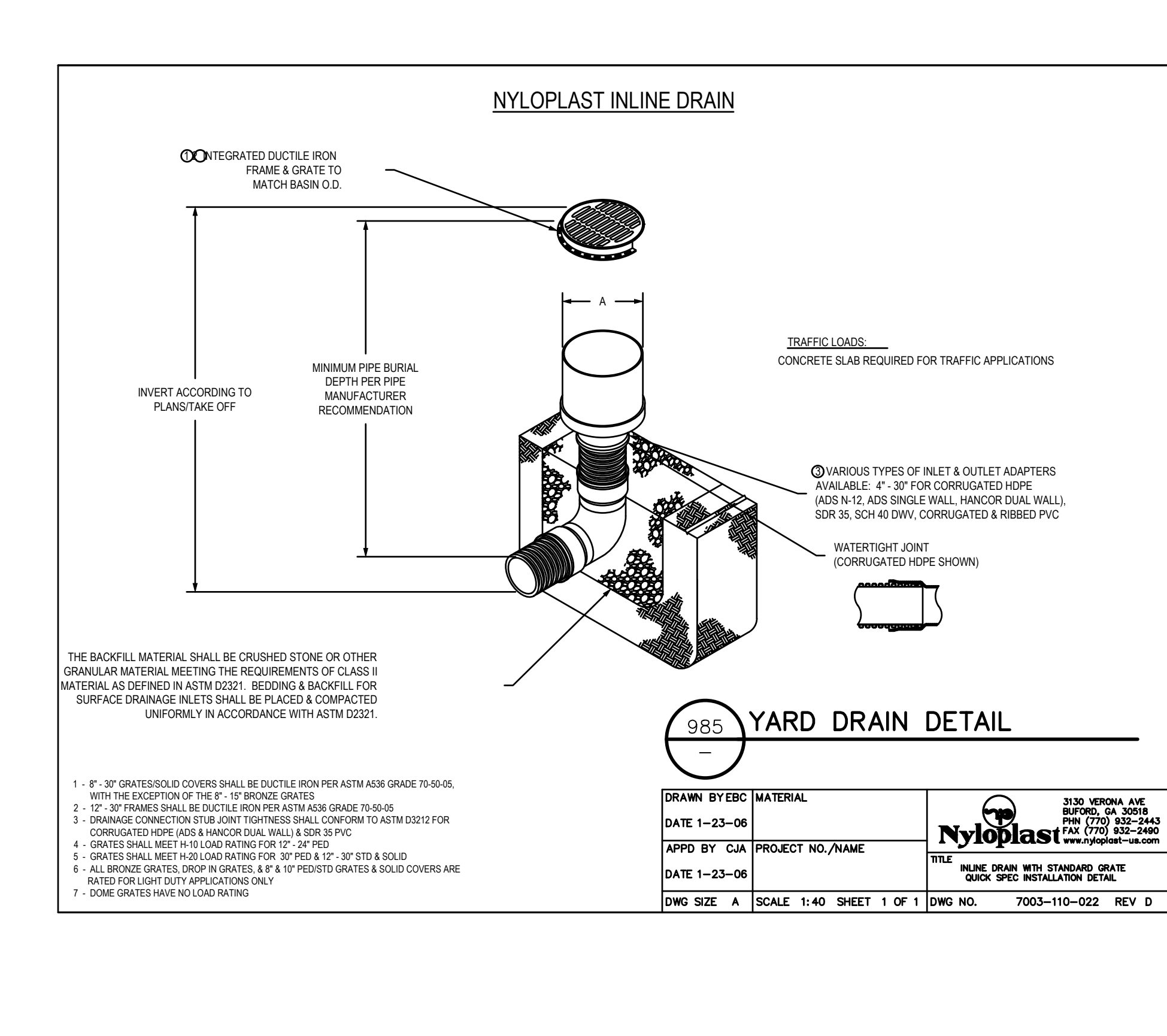
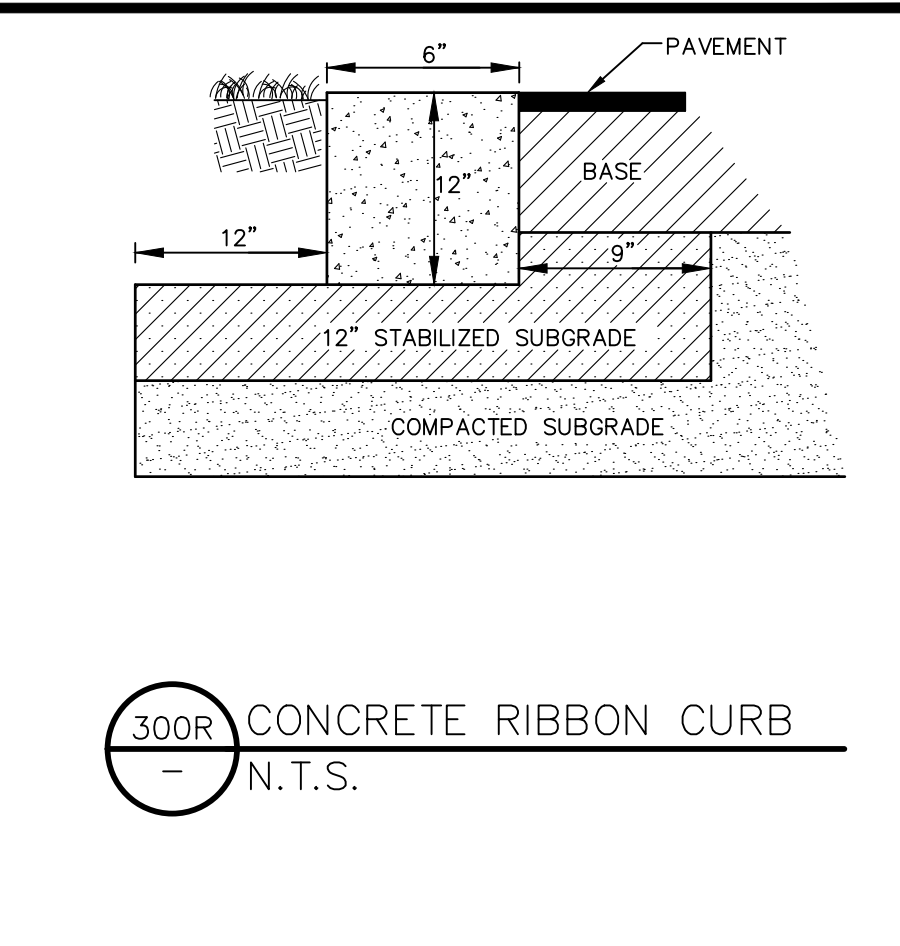
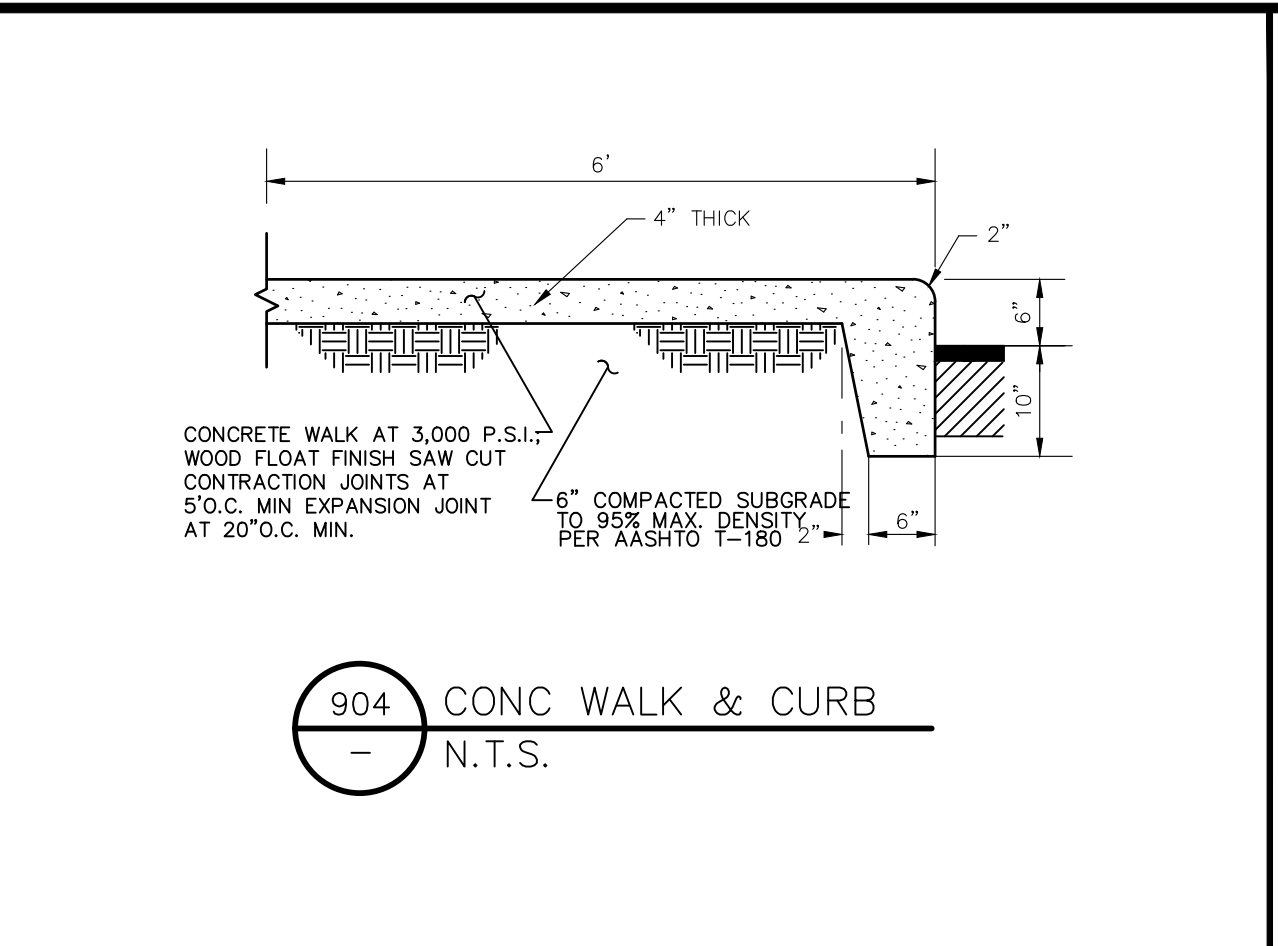
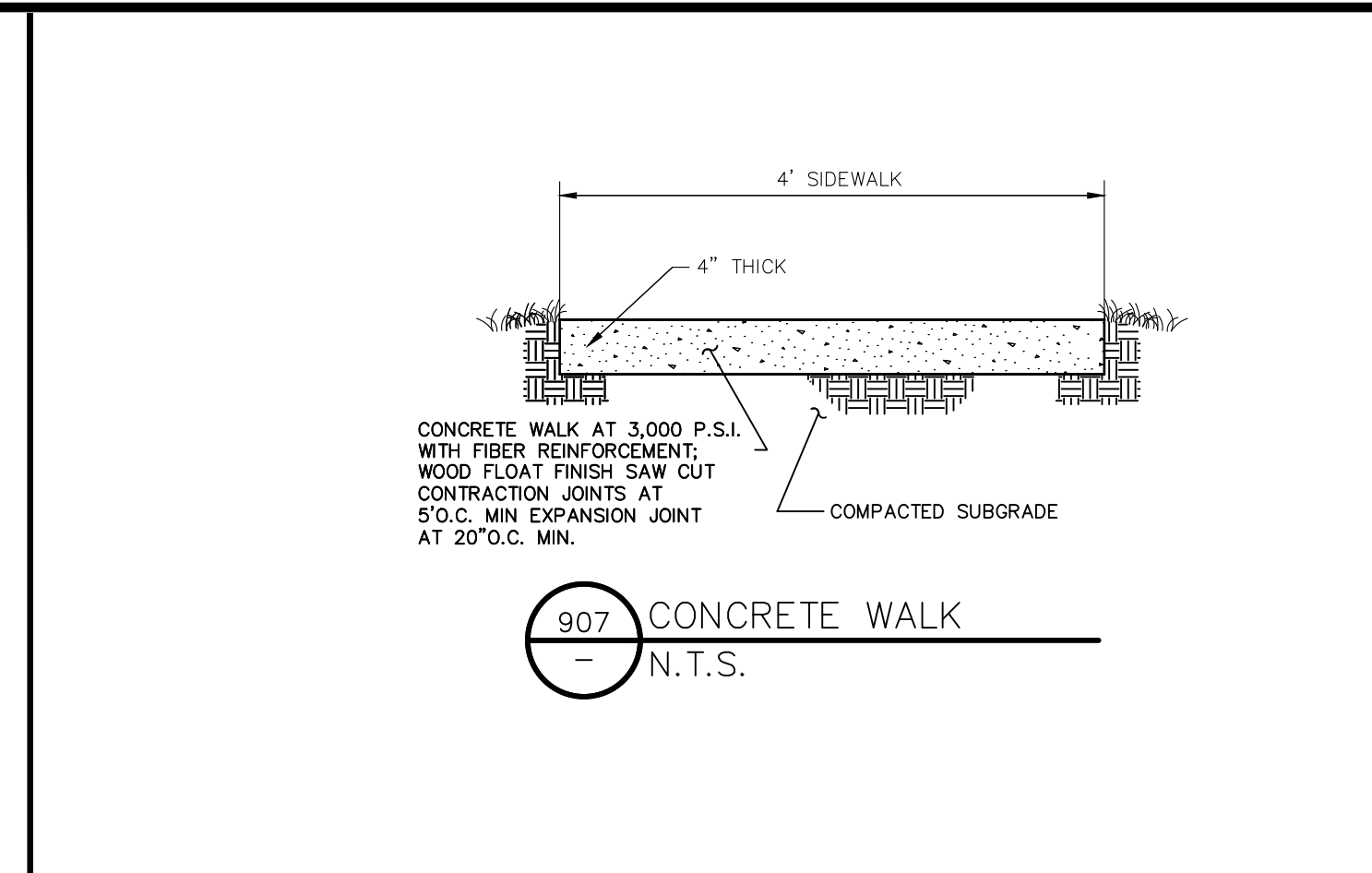
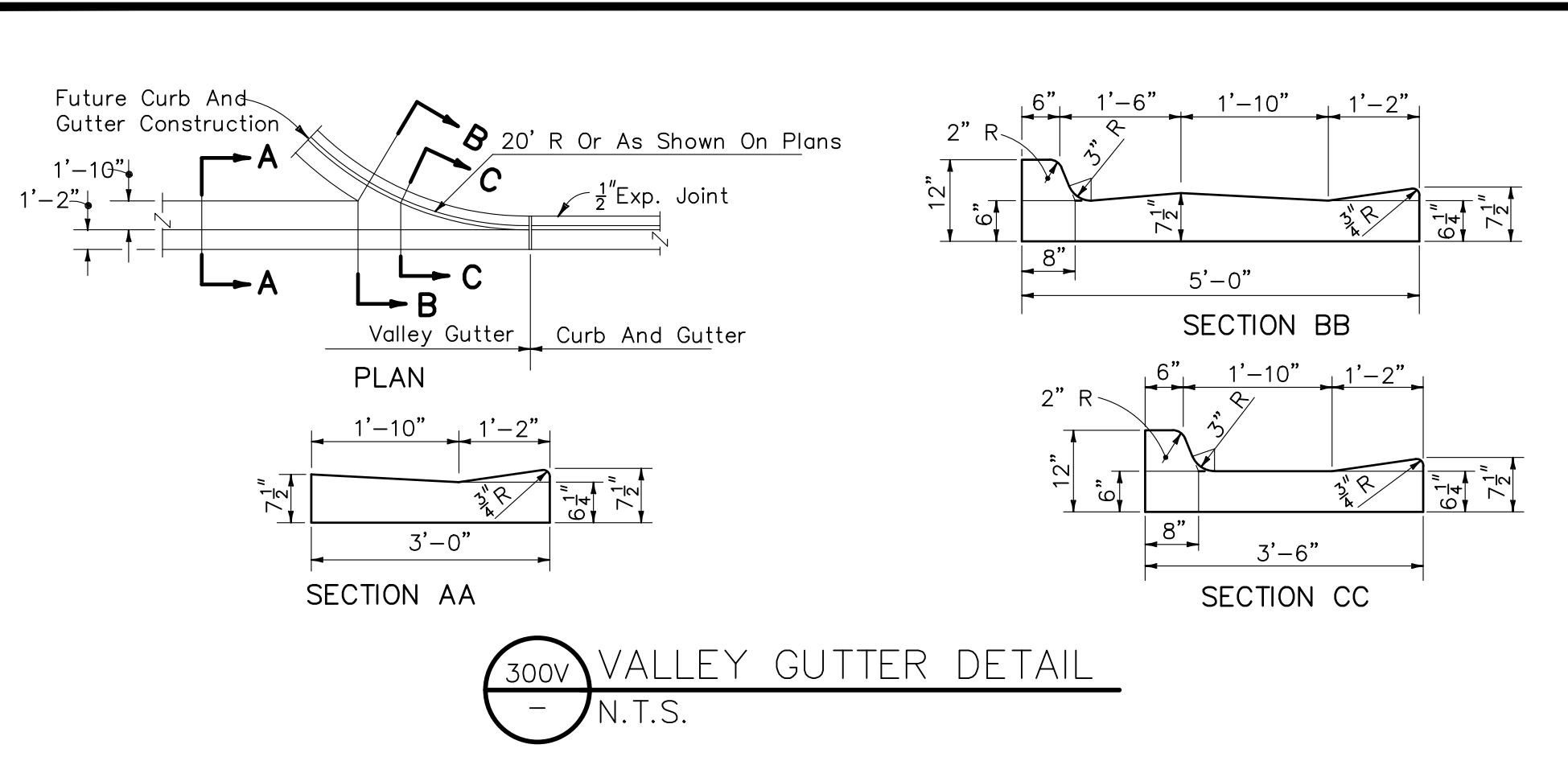
**D. R. HORTON**  
10192 DOWNEY RD., SUITE 150  
ORLANDO, FL 32832  
(407) 850-5245

NO.	DATE	REVISIONS

JOB # \_\_\_\_\_ 21052  
DATE: 10/22/2021  
SCALE: 1" = 100'  
DESIGNED BY: BSB  
DRAWN BY: JAS  
APPROVED BY: BSB

**C700**

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**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

DATE	REVISIONS

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

**C901**

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**SLAB DESIGNS - SQUARE AND RECTANGULAR STRUCTURES**  
(ALL SLABS 8" THICK - REINFORCING PARALLEL TO SHORT WAY AND LONG WAY)

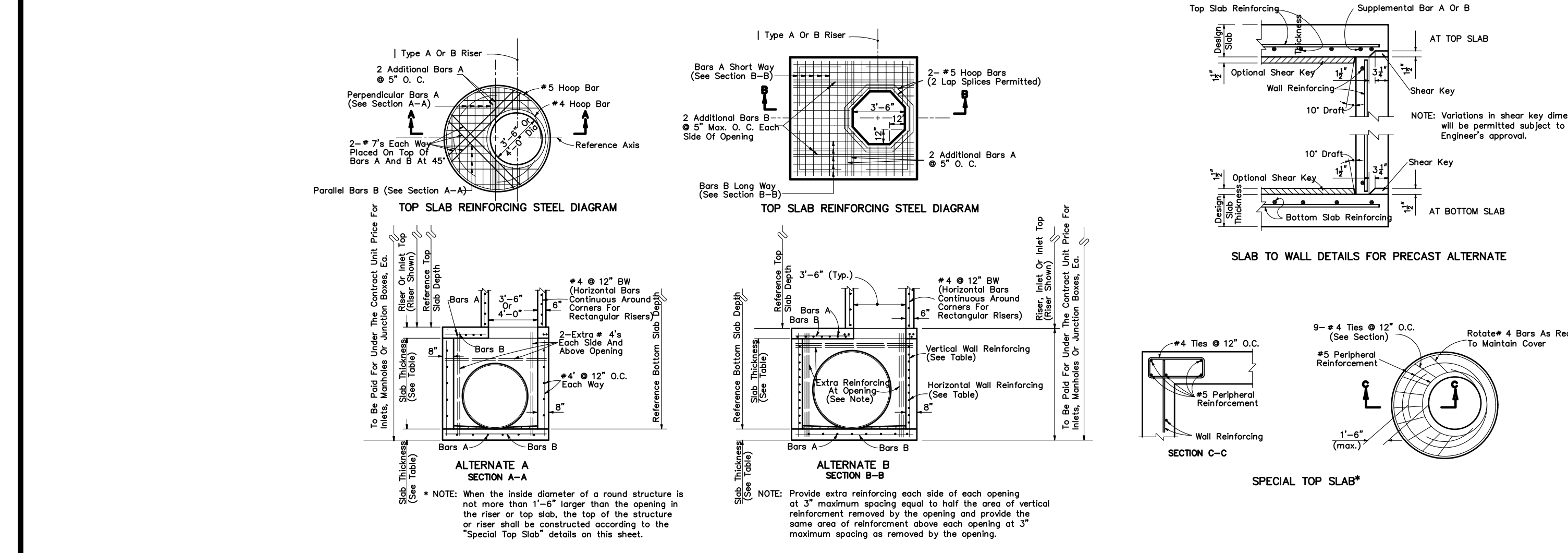
SHORT-WAY		LONG-WAY		SHORT-WAY		LONG-WAY		SHORT-WAY		LONG-WAY	
SLAB DEPTH	SCHEDULE	SLAB DEPTH	SCHEDULE	SLAB DEPTH	SCHEDULE	SLAB DEPTH	SCHEDULE	SLAB DEPTH	SCHEDULE	SLAB DEPTH	SCHEDULE
20.5" - 29"	B	20.5" - 40"	B	20.5" - 3"	D	20.5" - 3"	D	20.5" - 3"	D	20.5" - 3"	D
29" - 40"	C			3" - 4"	C	3" - 4"	C	3" - 4"	C	3" - 4"	C
				4" - 14"	B	4" - 14"	B	4" - 9"	B	4" - 9"	B
				14" - 21"	C	14" - 21"	C	9" - 17"	C	9" - 17"	C
				21" - 28"	D	21" - 28"	D	17" - 31"	D	17" - 31"	D
				28" - 40"	F	28" - 40"	F	31" - 40"	G	31" - 40"	G

**REINFORCING SCHEDULE**

SCHEDULE	GRADE 60 STEEL	GRADE 40 STEEL
A	0.20	0.24
B	0.24	0.37
C	0.37	0.53
D	0.53	0.78
E	0.78	1.08
F	1.08	1.45
G	1.45	

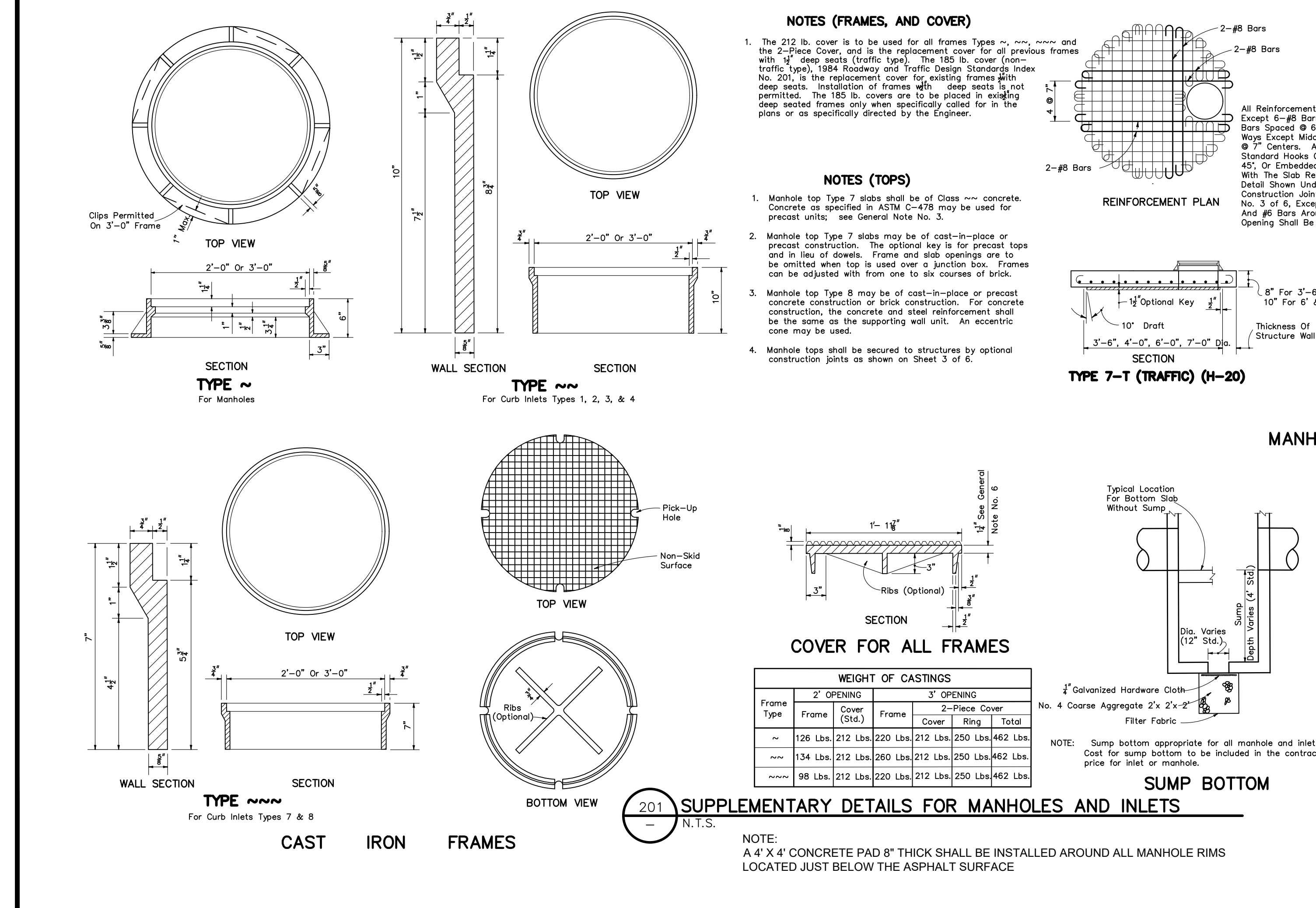
**GENERAL NOTES**

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



**GENERAL NOTES**

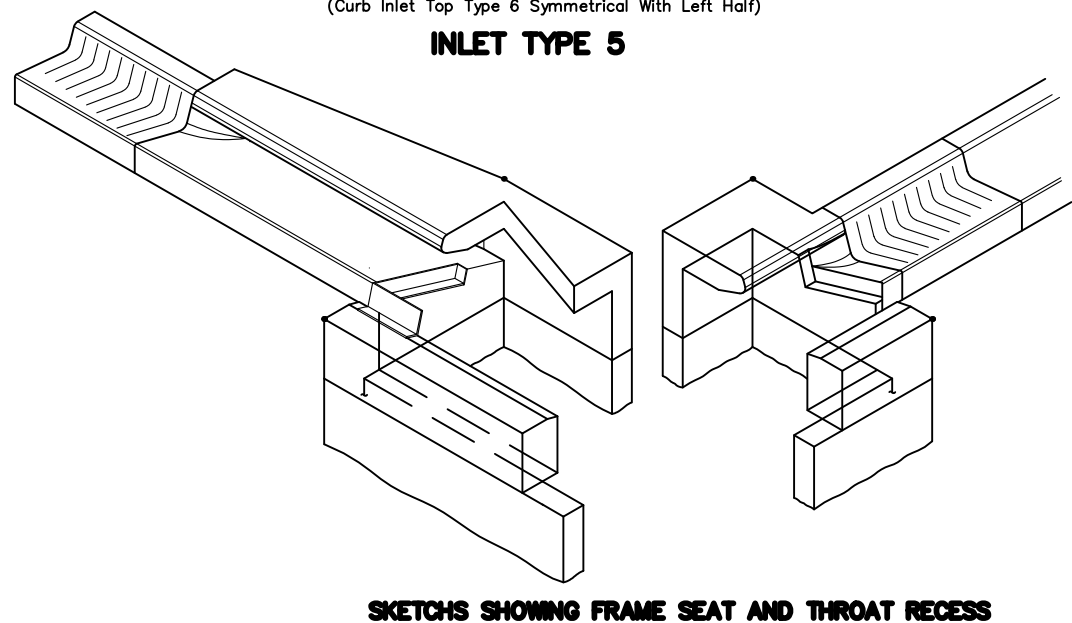
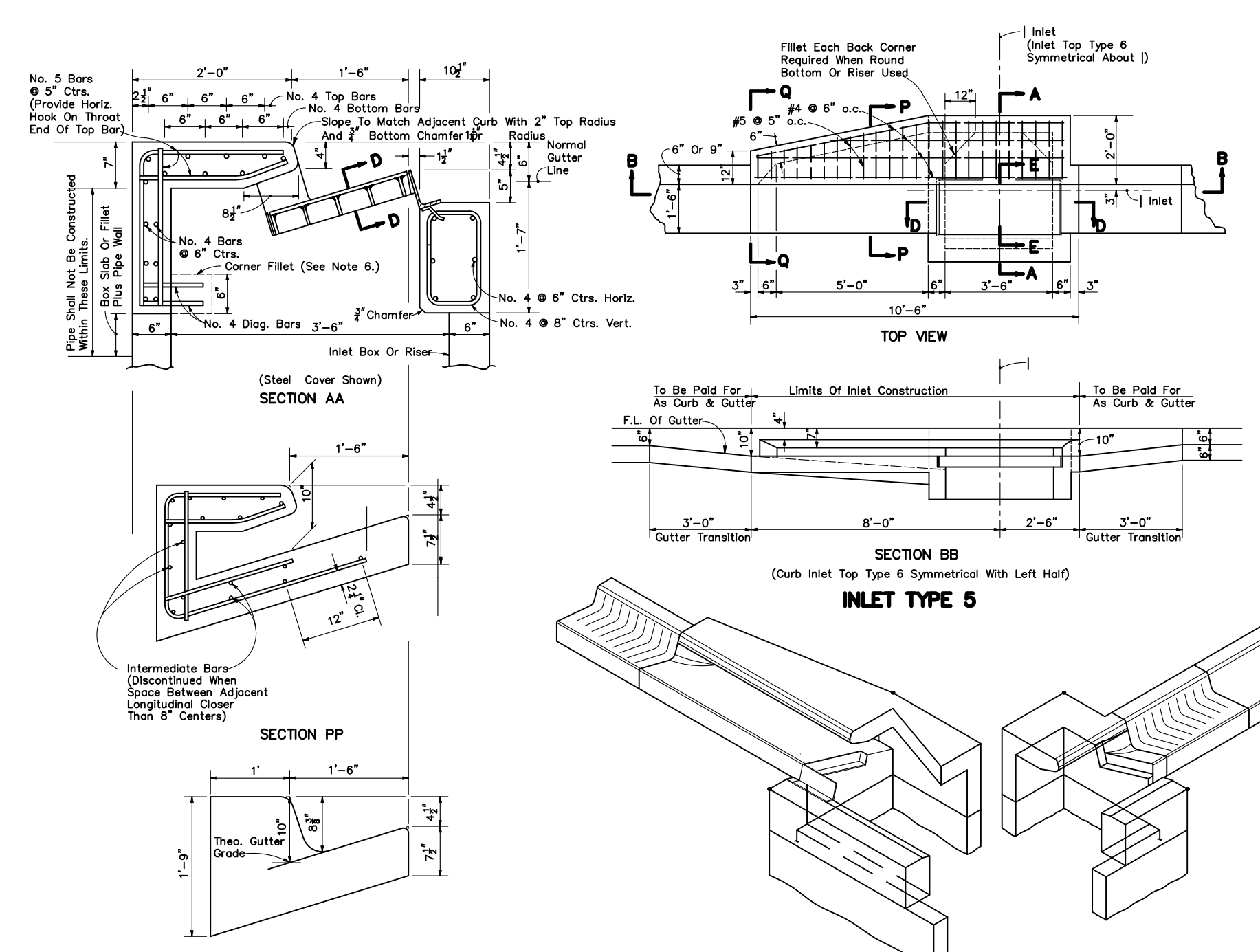
- Standard structure bottoms 4'-0" diameter and smaller (All A) and 8'-0" structure bottoms may be used in conjunction with curb inlet.
- Wells of circular structures (Alternate A) constructed in place may be of non-reinforced concrete or brick or reinforced concrete. Precast and rectangular structures (Alternate B) shall be constructed of reinforced concrete only.
- Wall thickness and reinforcement are for either reinforced cast-in-place or precast concrete units except that precast concrete units may be finished with walls in accordance with either A.S.T.M. C-478 (up to 6" diameter) or A.S.T.M. C-70, Class II, reinforced with the elliptical steel reinforcement in the center one-third of the wall.
- Top and floor slab thickness and reinforcement are for precast and cast in place construction. Top and floor slabs shall be of Class II concrete. Concrete as specified in A.S.T.M. C-478 (4000 psi) may be used in lieu of Class II concrete in precast items manufactured in plants which are under the Standard Operating Procedures for the inspection of precast drainage products.
- All reinforcement shall be A.S.T.M. A615, Grade 60 or 65 K31 welded wire fabric, either smooth or deformed.



**CAST IRON FRAMES**

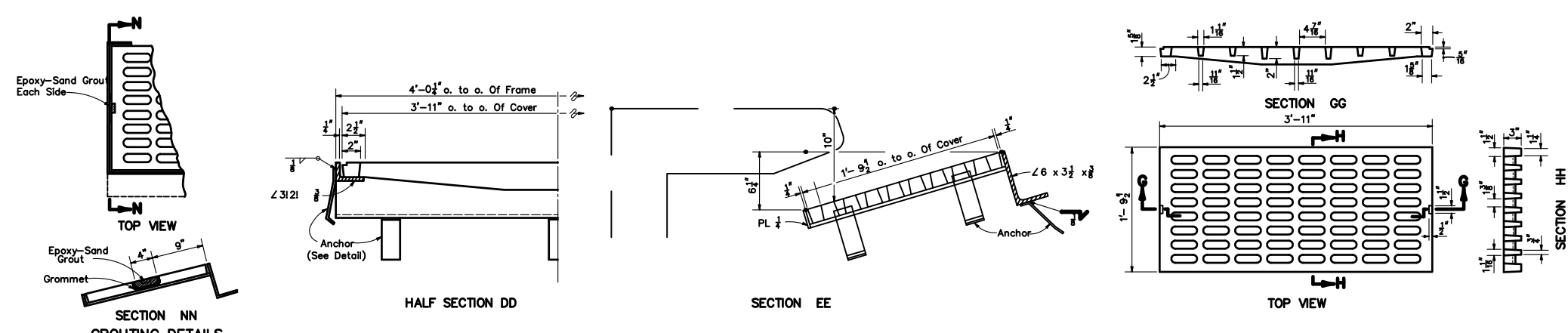
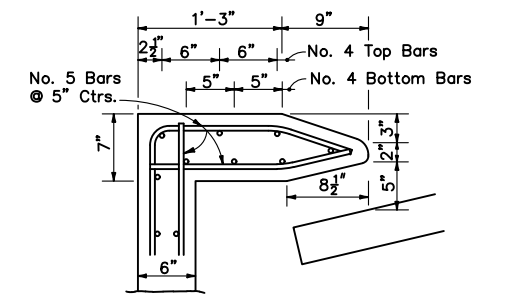
**201 SUPPLEMENTARY DETAILS FOR MANHOLES AND INLETS**

**232C F.D.O.T. TYPE C INLET**

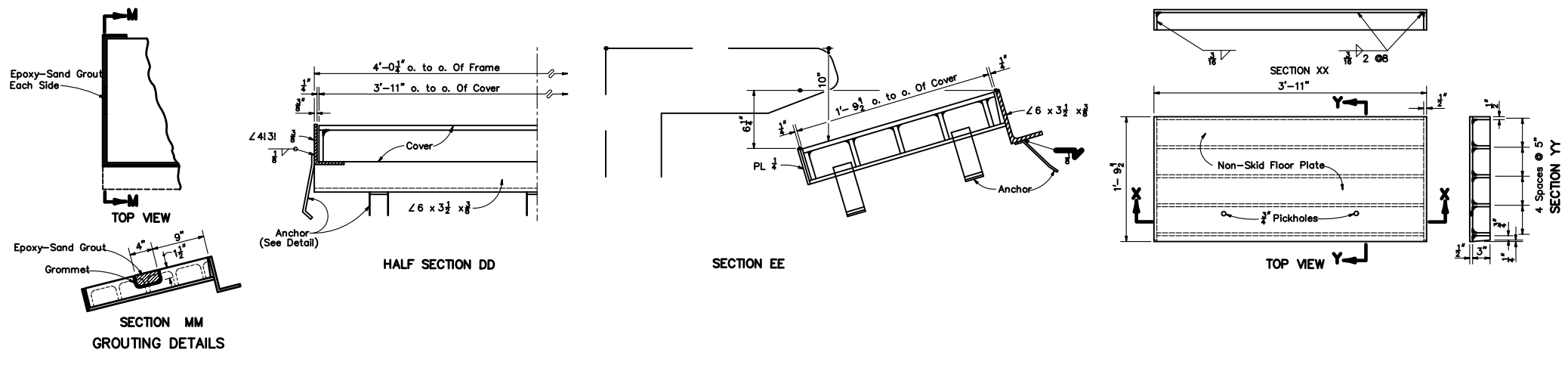


TOP MODIFICATION FOR TYPE E CURB

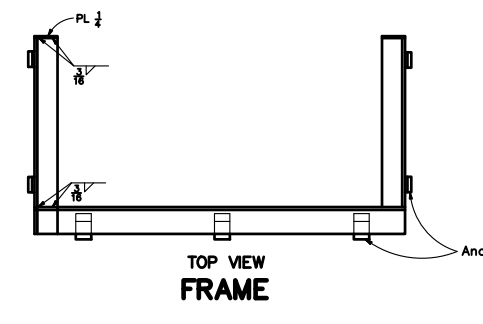
SKETCHES SHOWING FRAME SEAT AND THROAT RECESS



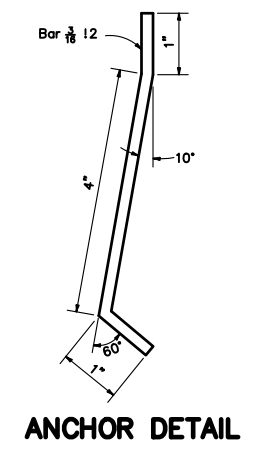
CAST IRON COVER



STEEL COVER



TOP VIEW FRAME



ANCHOR DETAIL

- 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. Bend 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.
  - Pre-casting 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 inlet bottoms or when used on steel with rectangular inlet tops.
  - 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 "Q" Cover is specified in plans either the cast iron cover and grouted 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 back-siding.
  - Inlet to be paid for under the contract unit price for inlets (Curb) Type 5, Each.

211 CURB INLET TOPS TYPES 5 & 6  
N.T.S.

**MADDEN**  
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CONSTRUCTION DETAILS  
FOR  
**VENEZIA TOWNHOMES**  
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ORLANDO, FL 32832  
(407) 850-5245

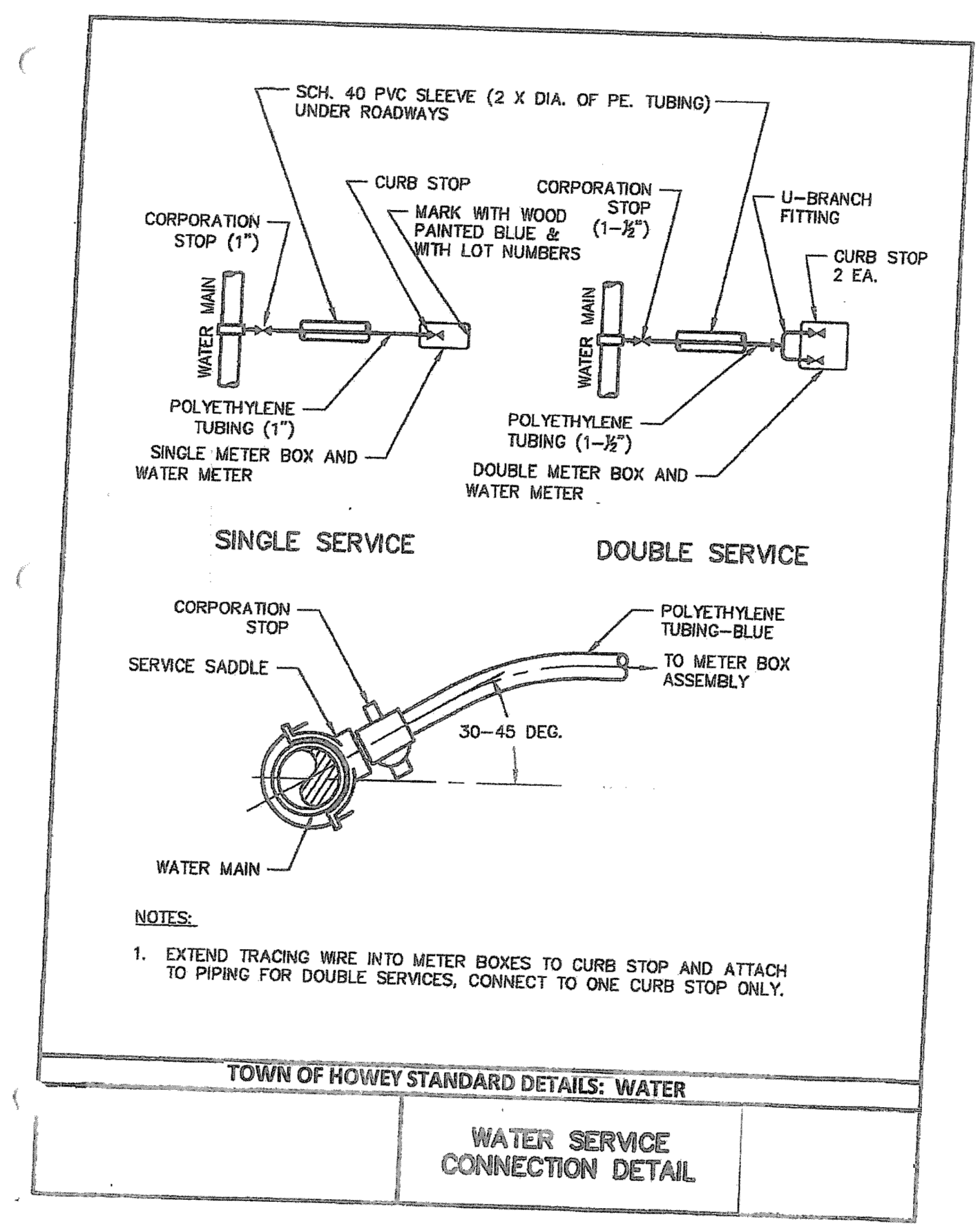
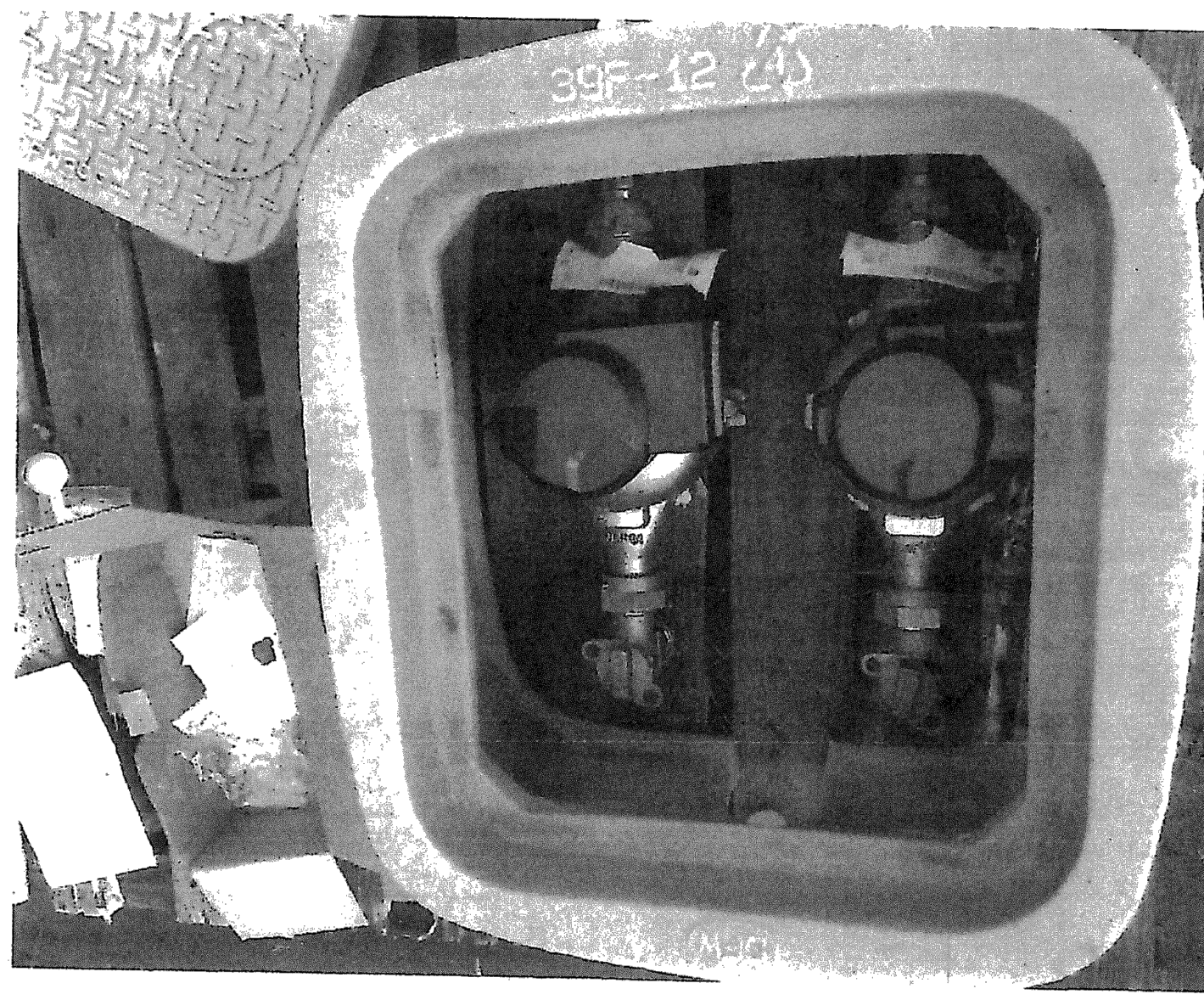
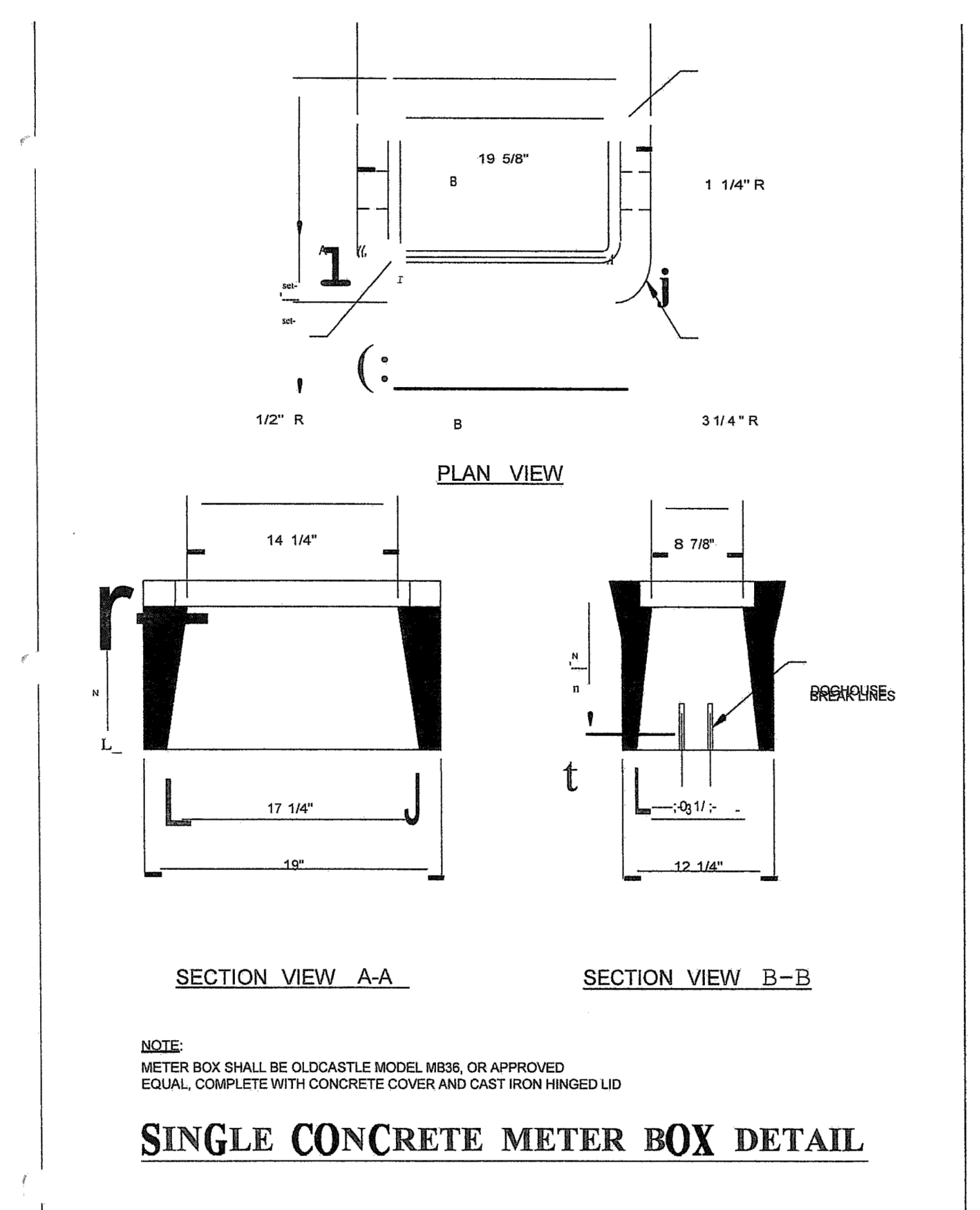
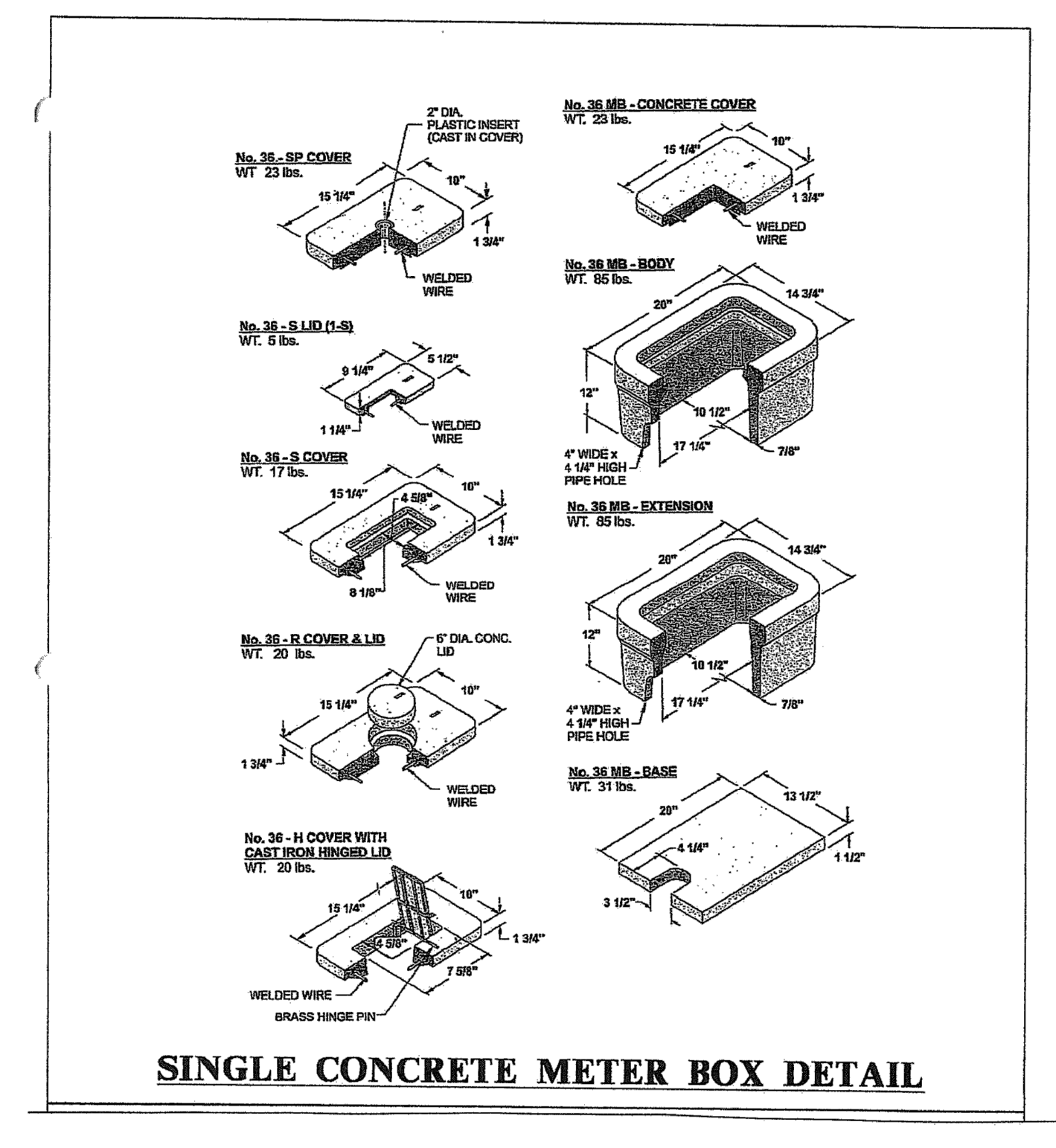
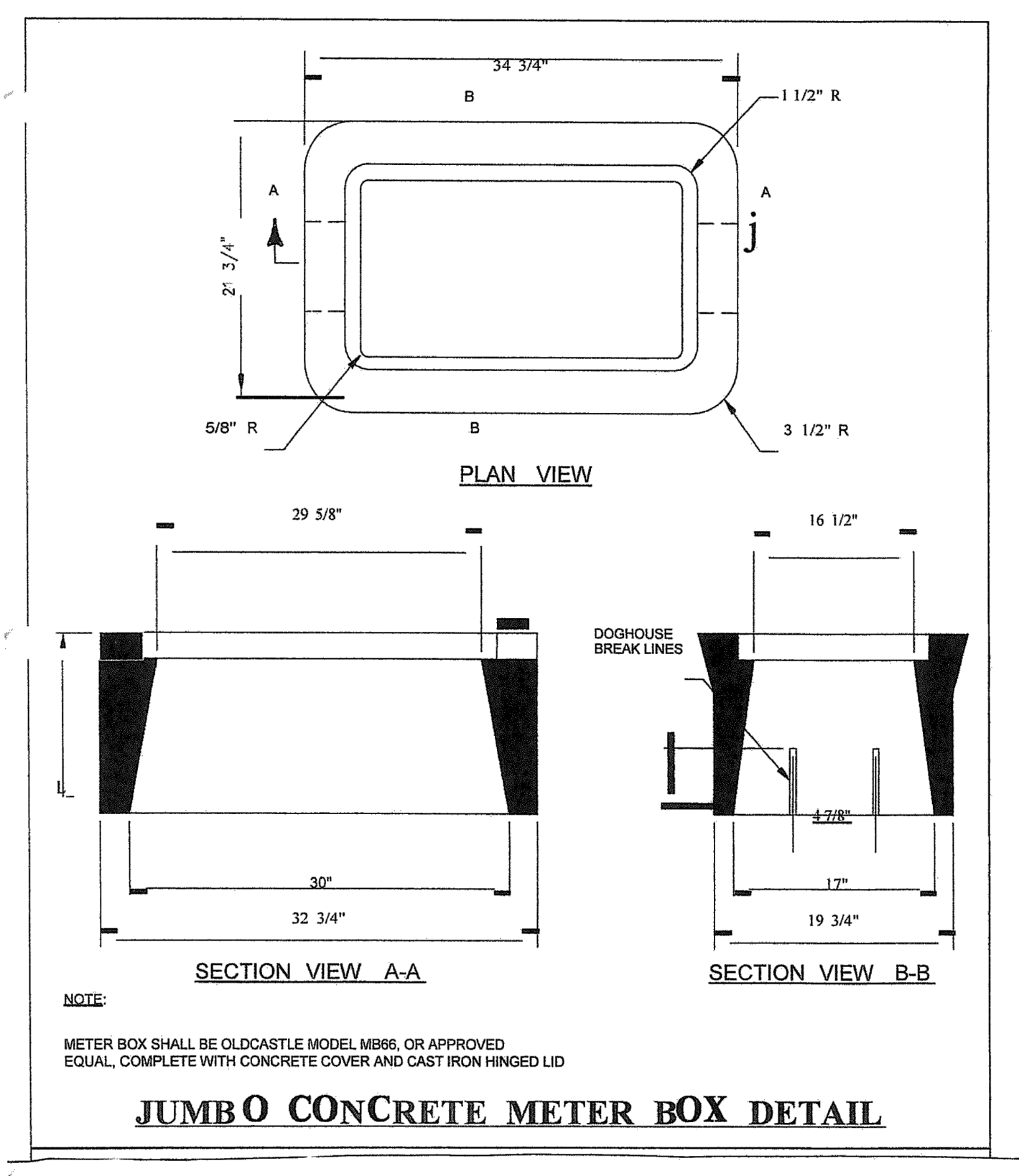
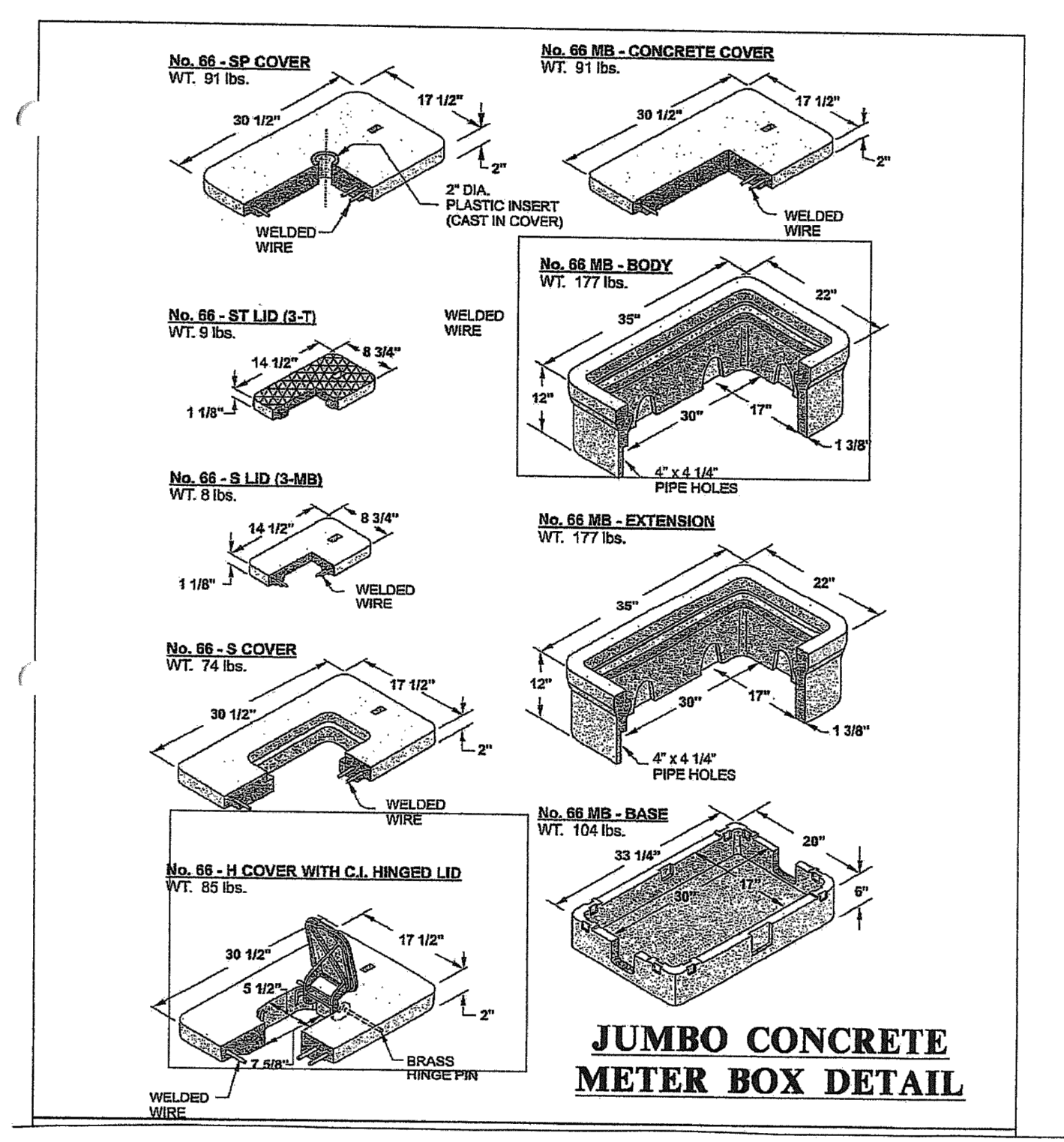
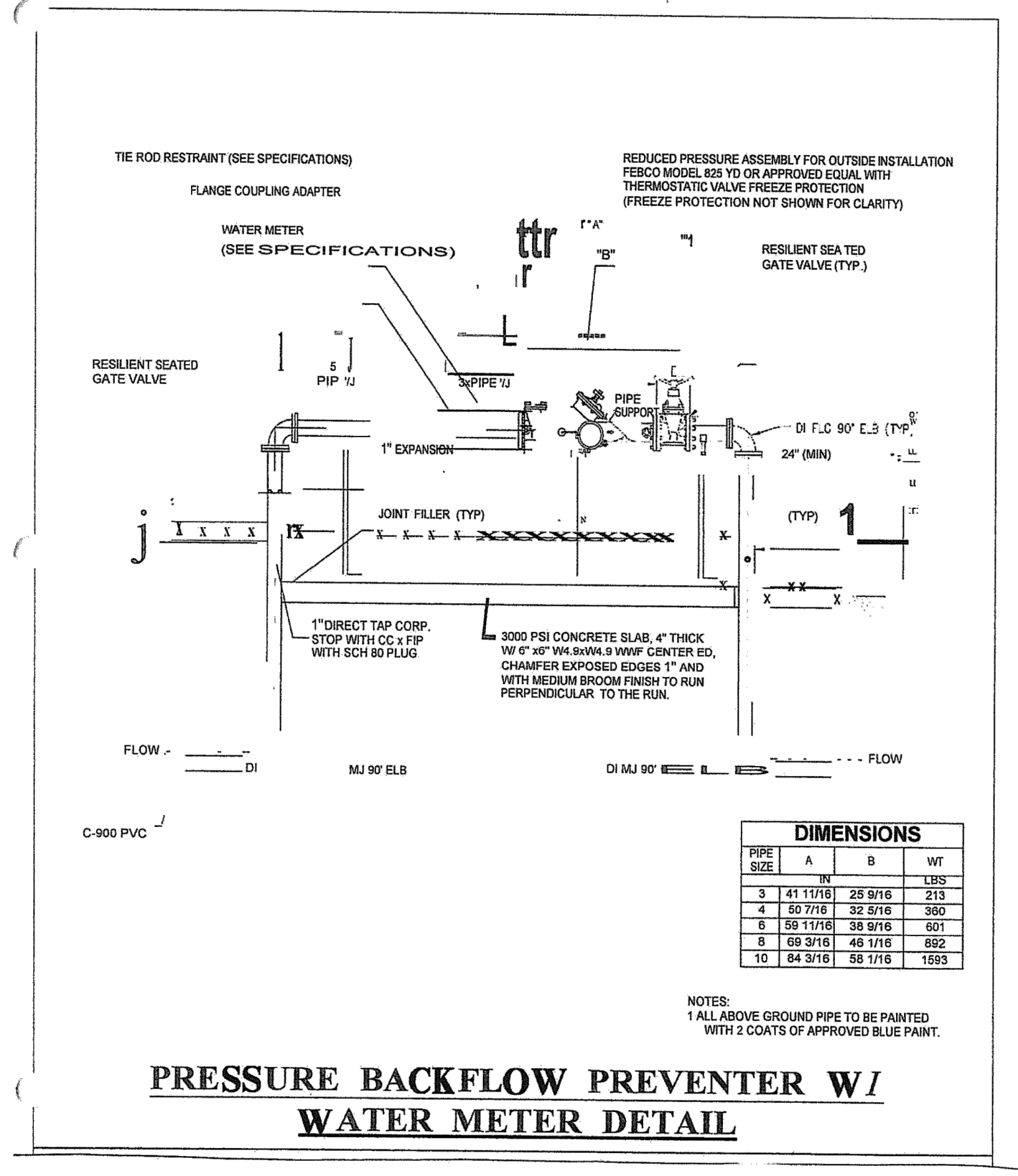
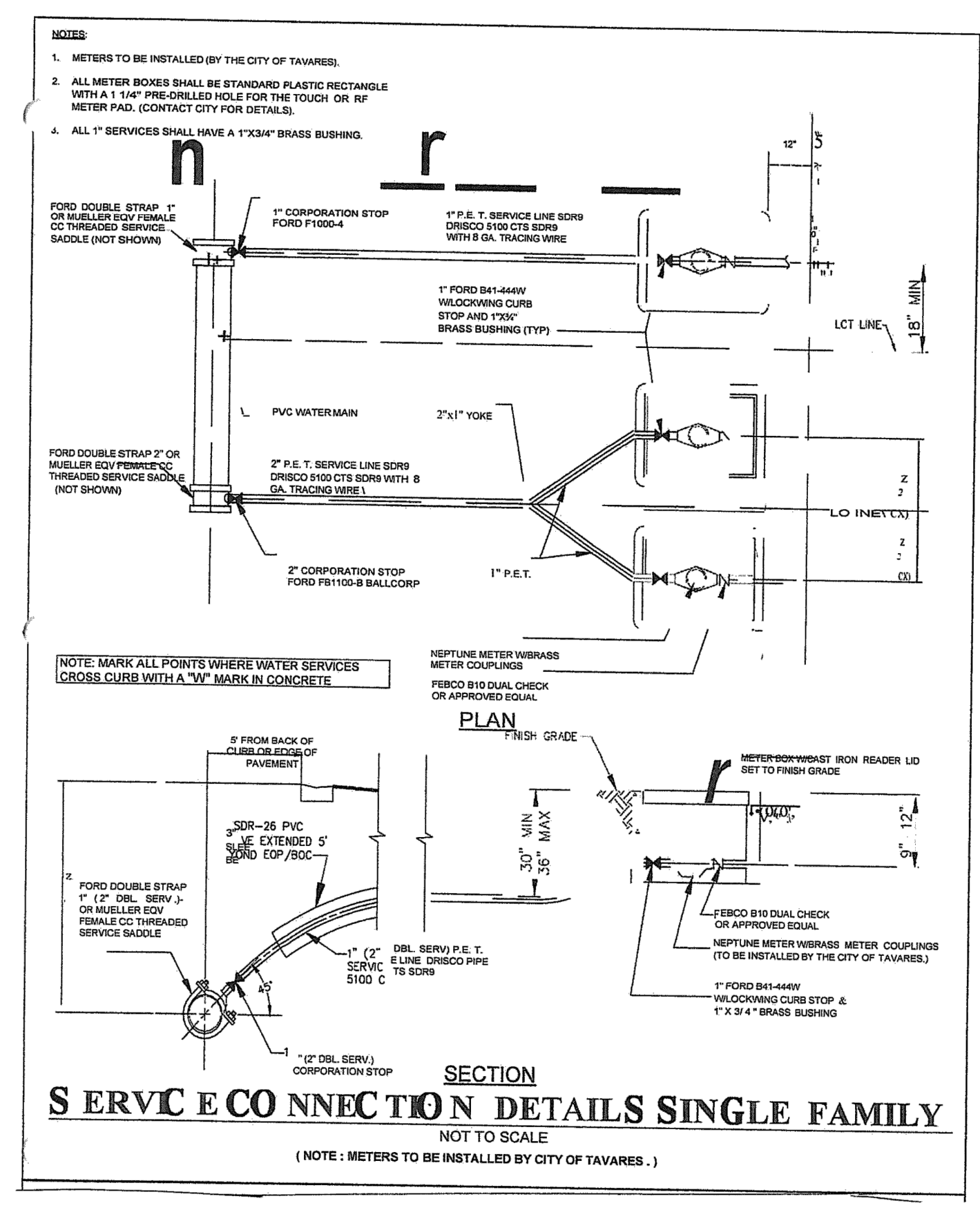
**BENJAMIN S. BECKHAM**  
No. 79452  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
DATE: 10/22/2021  
CERTIFICATE OF AUTHORIZATION No. CE-0007723

NO.	DATE	REVISIONS

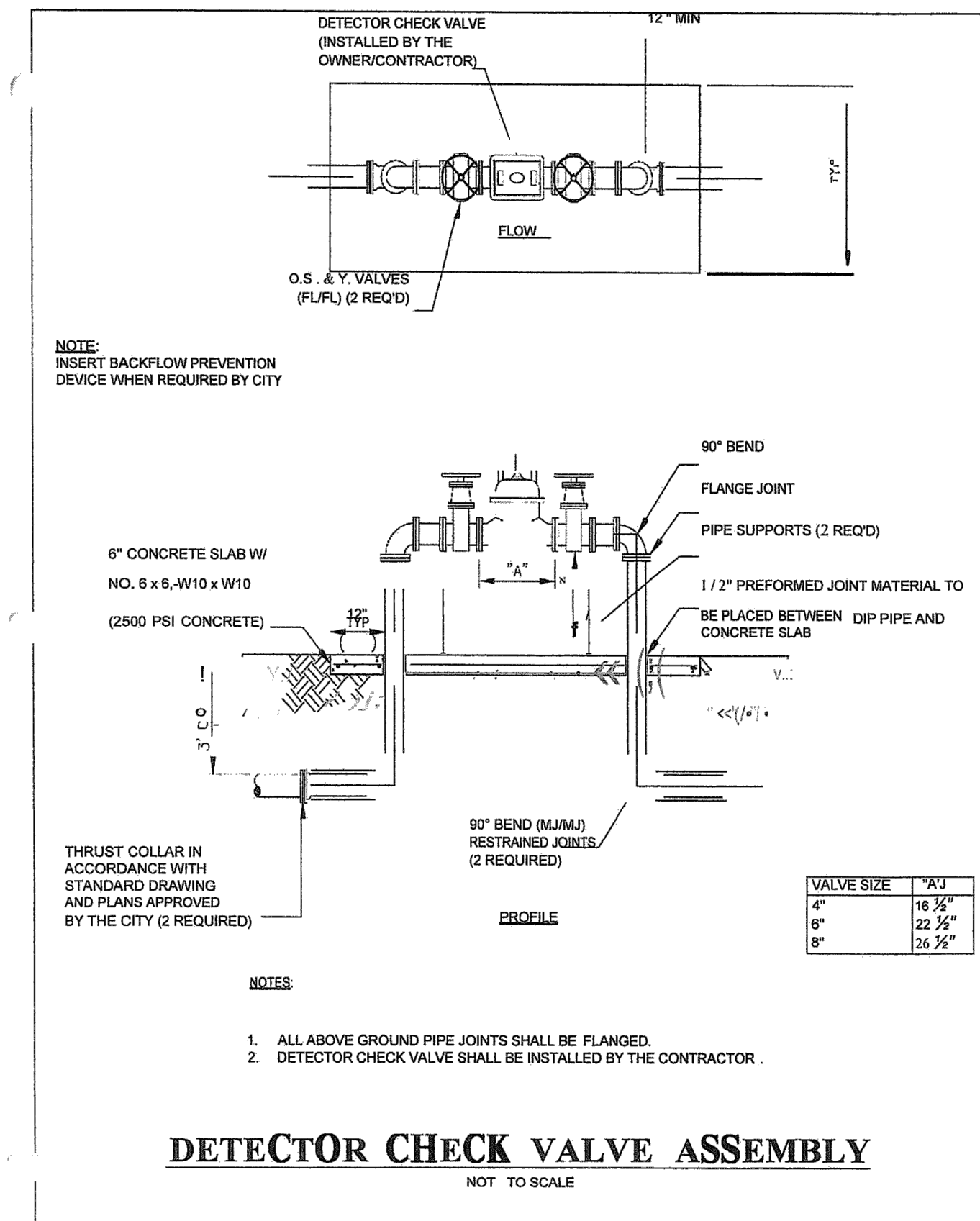
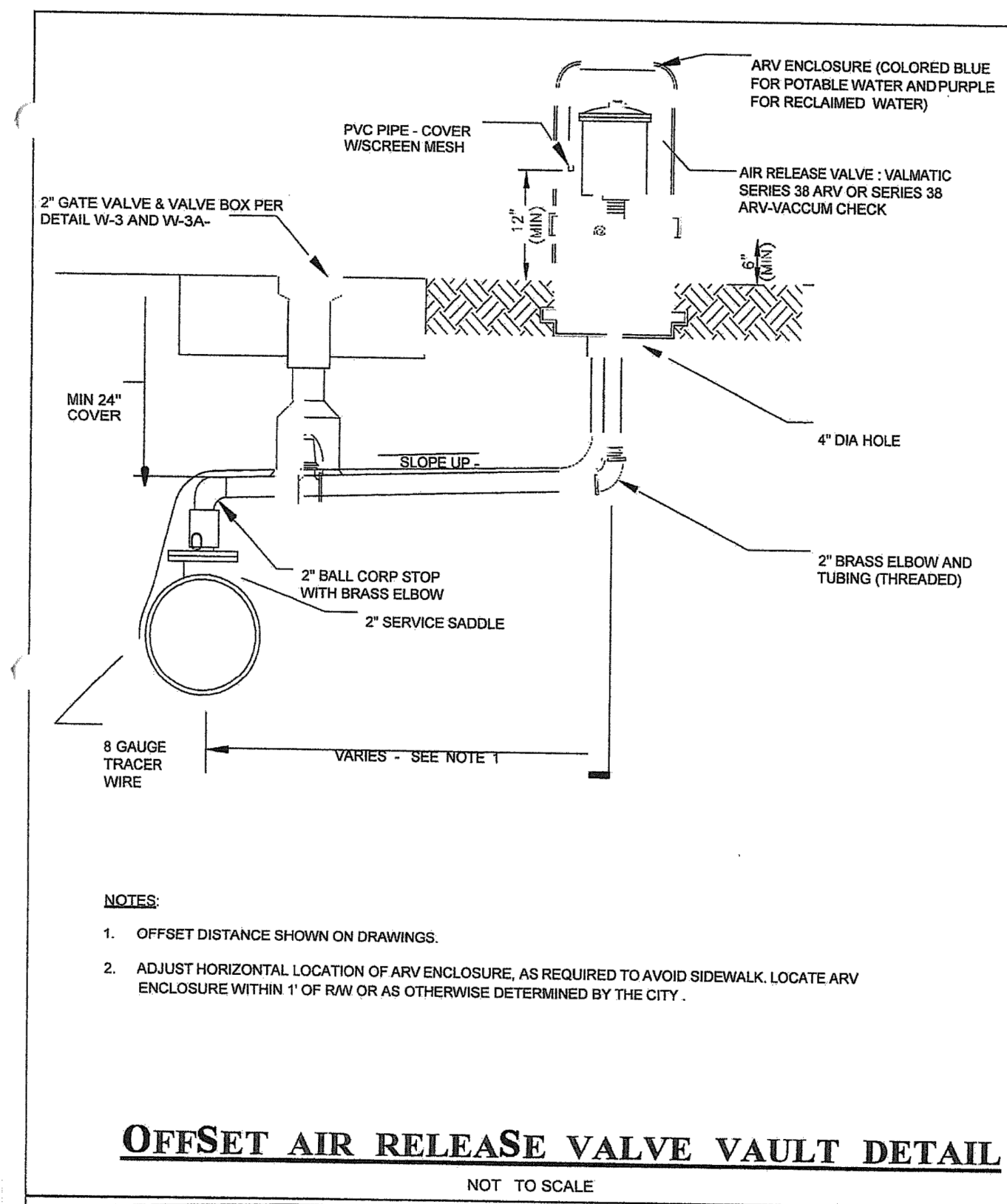
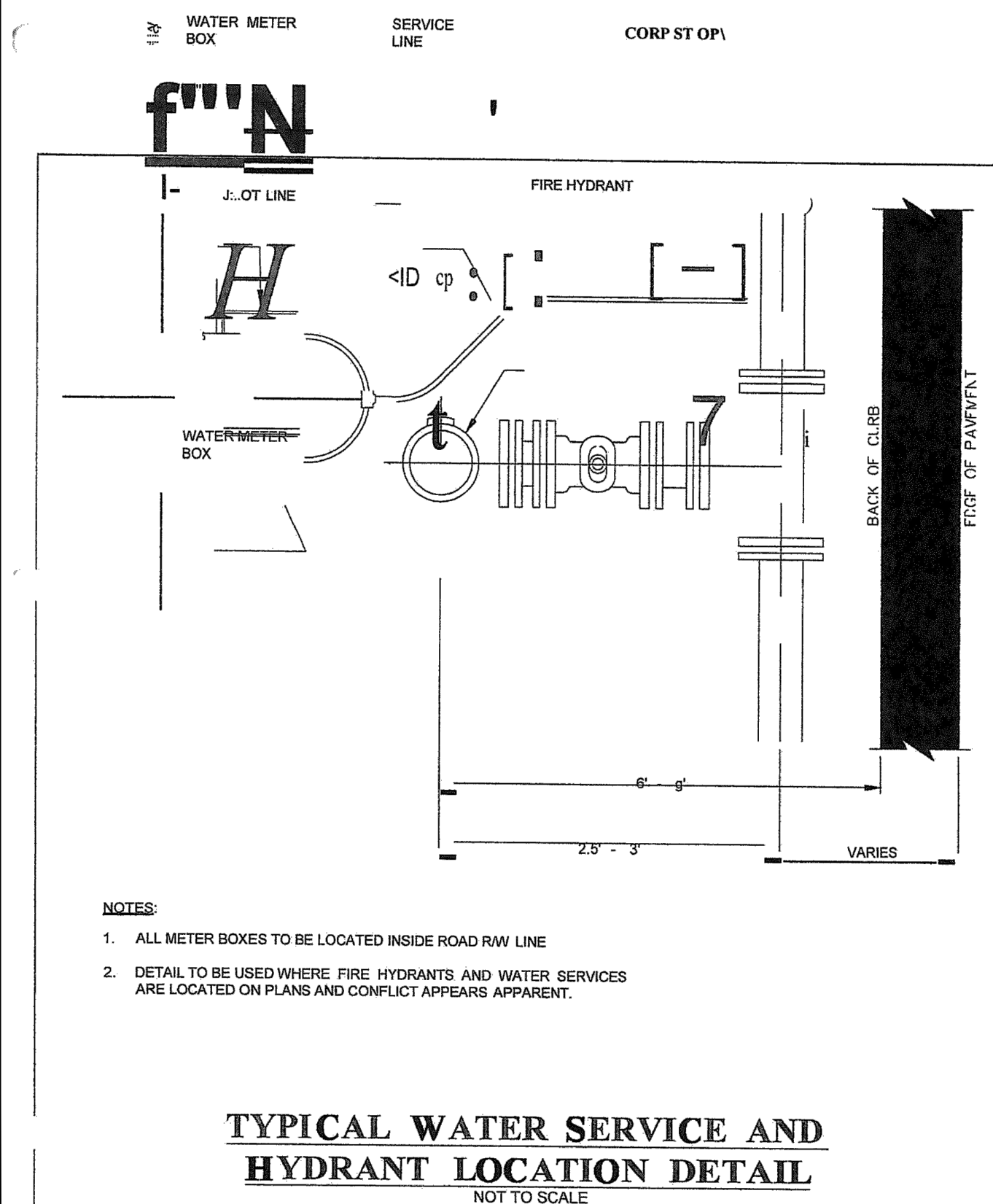
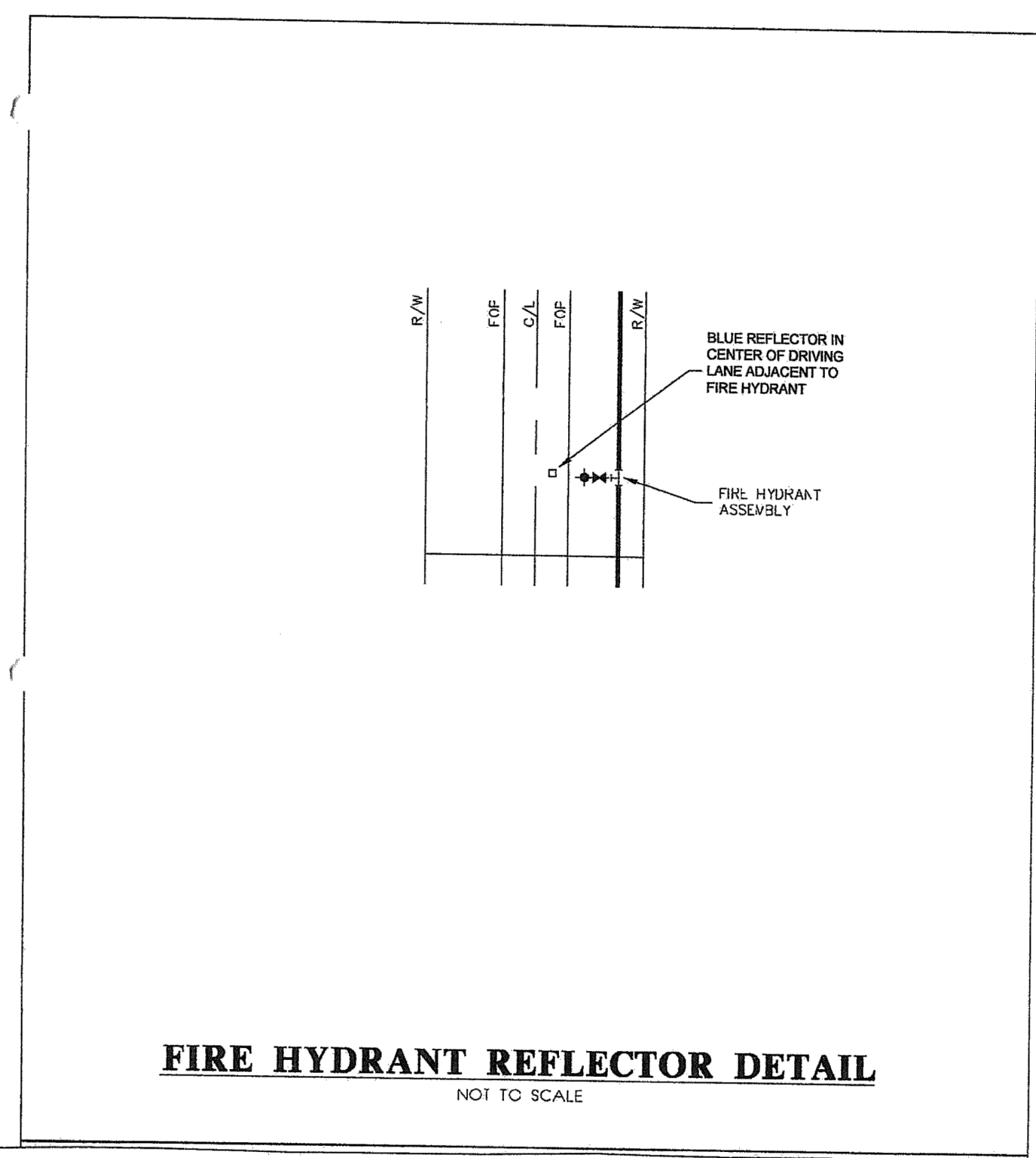
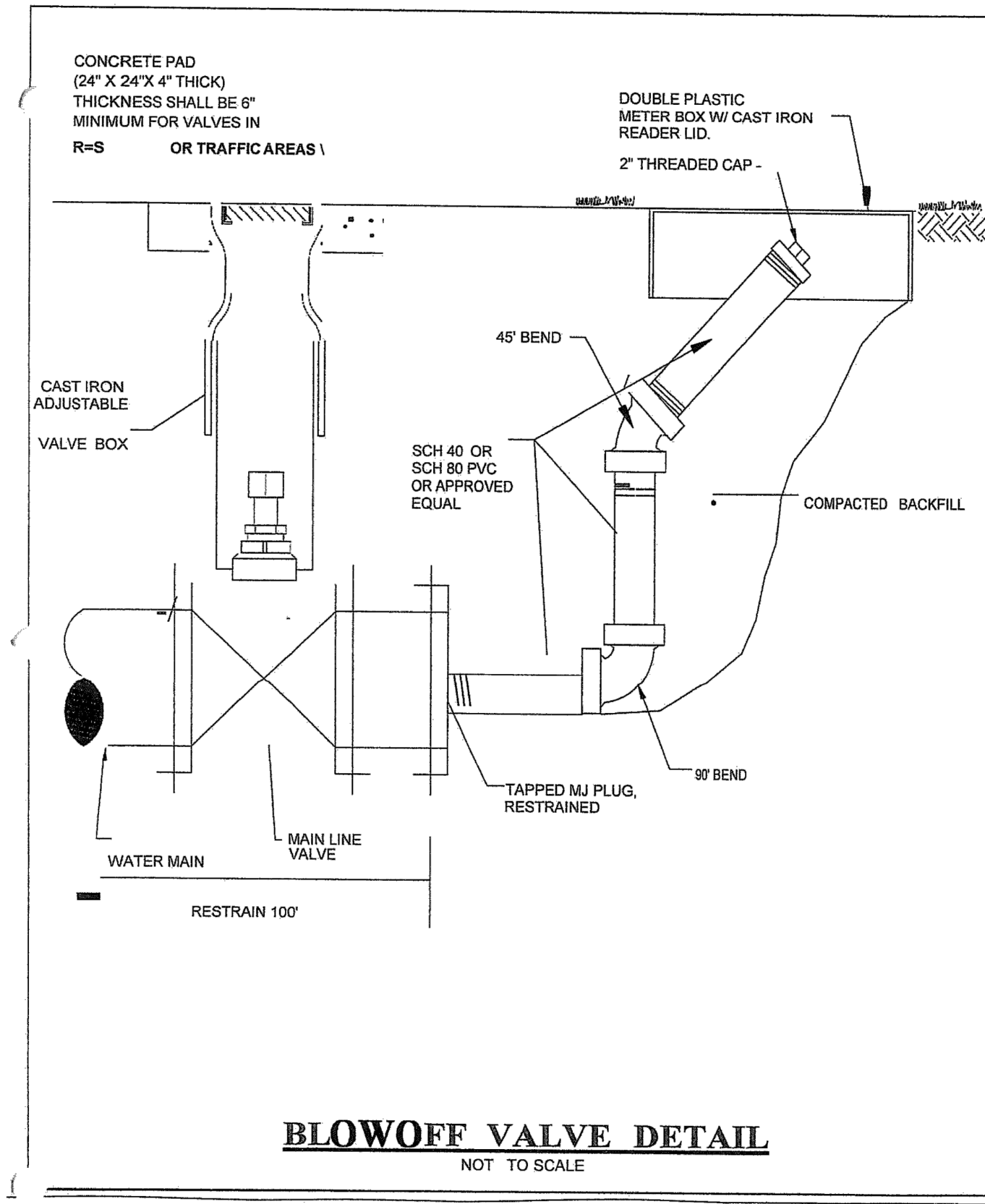
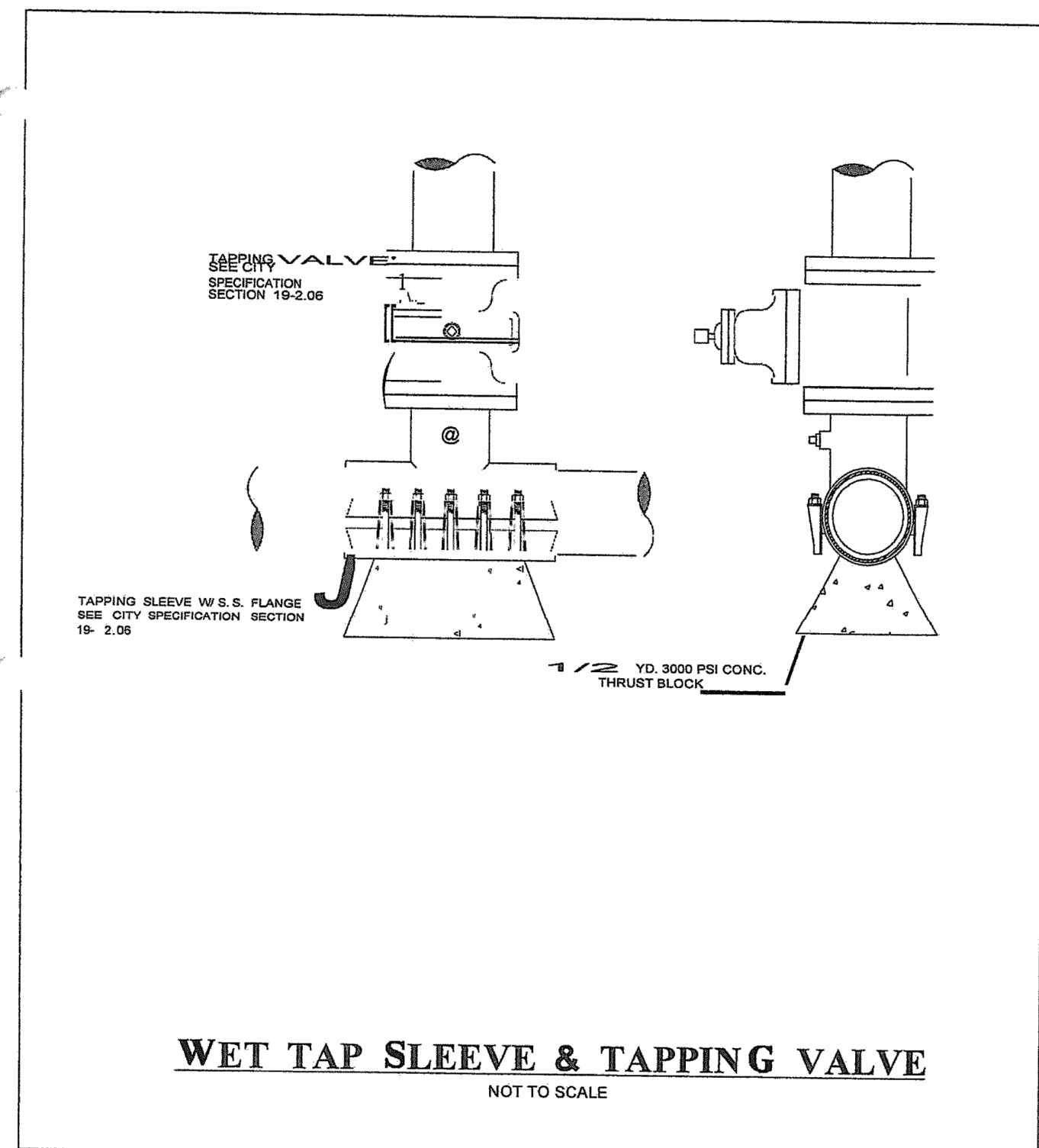
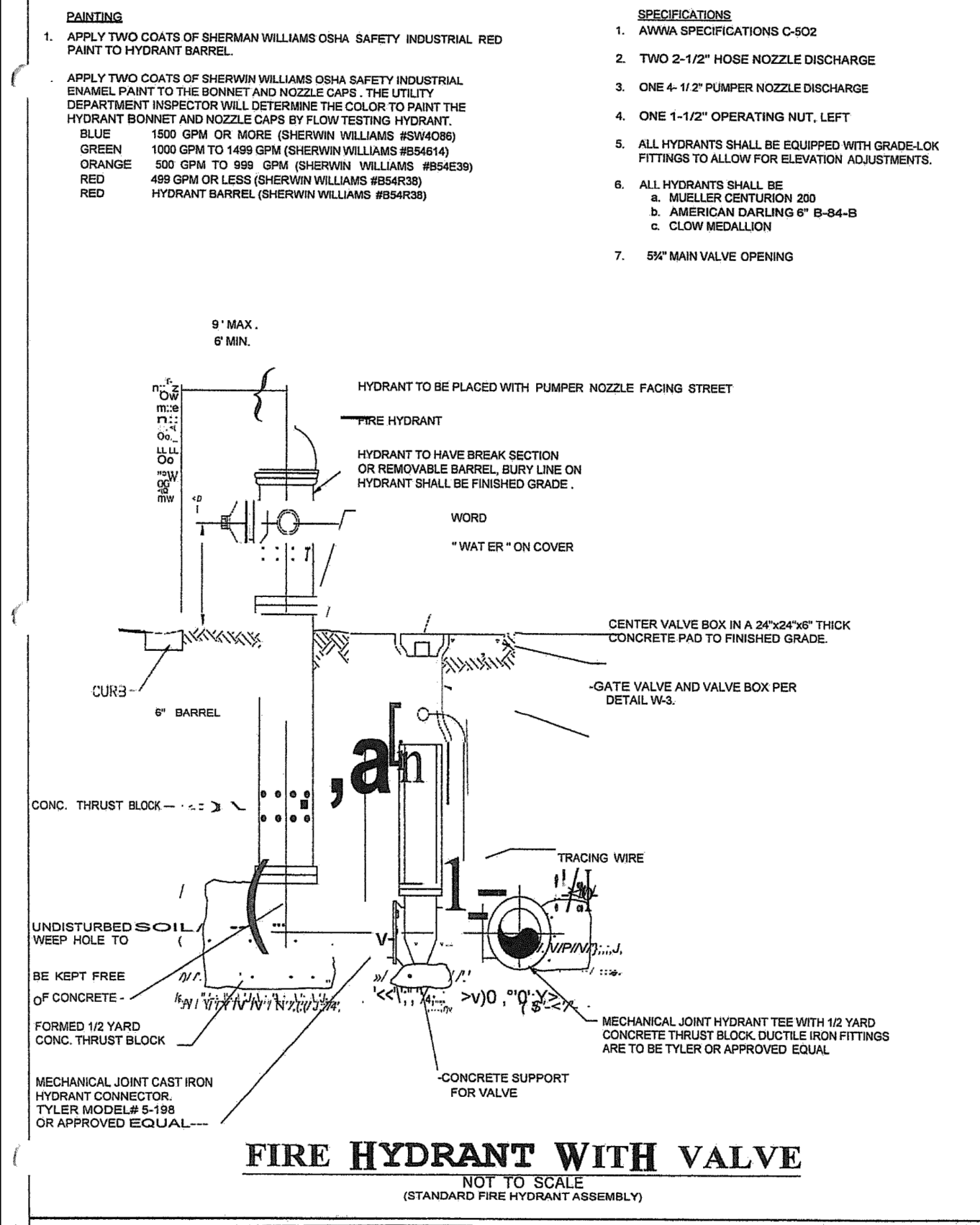
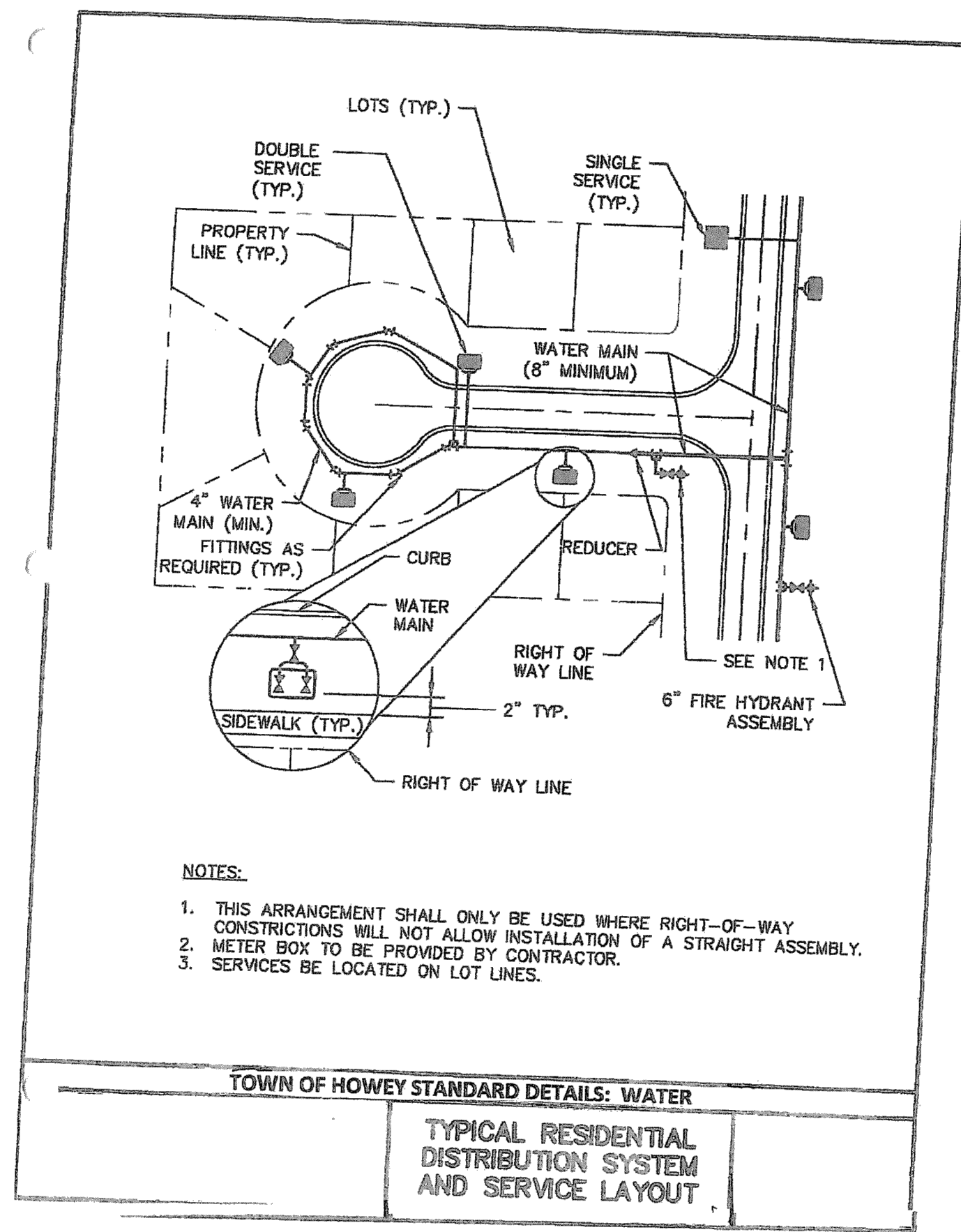
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SCALE: N.T.S.  
DESIGNED BY: BSB  
DRAWN BY: JAS  
APPROVED BY: BSB

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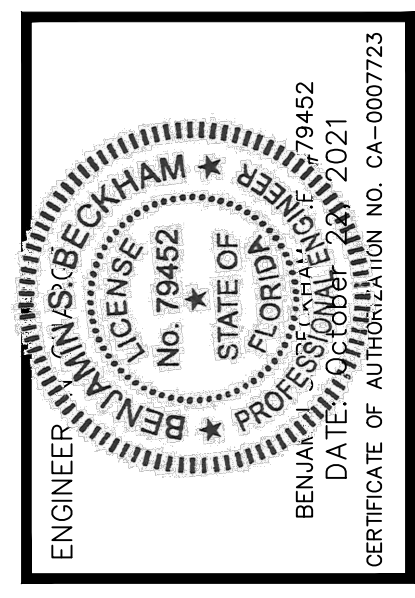




**MADDEN**  
 MOORHEAD & STOKES, LLC  
 CIVIL ENGINEERS  
 431 E. Horatio Avenue  
 Suite 260  
 Maitland, Florida 32751  
 (407) 629-8330

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



NO.	DATE	REVISIONS

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

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**GENERAL WATER NOTES**

(5) EXCEPTIONS, WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THE REQUIREMENTS IN SUBSECTION (1) OR (2) ABOVE, THE DEPARTMENT SHALL ALLOW EXCEPTIONS TO THESE REQUIREMENTS IF SUPPLIERS OF WATER OR CONSTRUCTION PERMIT APPLICANTS PROVIDE TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH EXCEPTION AND PROVIDE ACCEPTABLE ALTERNATIVE CONSTRUCTION FEATURES WHICH AFFORD A SIMILAR LEVEL OF RELIABILITY AND PUBLIC HEALTH PROTECTION. ACCEPTABLE ALTERNATIVE CONSTRUCTION FEATURES INCLUDE THE FOLLOWING:

(A) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE:

- USE OF PRESSURE-RATED PIPE CONFORMING TO THE AMERICAN WATER WORKS ASSOCIATION STANDARDS INCORPORATED INTO RULE 62-565.330, F.A.C., FOR THE OTHER PIPELINE IF IT IS A GRAVITY- OR VACUUM-TYPE PIPELINE.
- USE OF WELDED, FUSED, OR OTHERWISE RESTRAINED JOINTS FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE; OR
- USE OF WATER-TIGHT CASING PIPE OR CONCRETE ENCASUREMENT AT LEAST FOUR INCHES THICK FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE.

(B) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS BEING LAID LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE:

- USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASUREMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN AND
- USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASUREMENT AT LEAST FOUR INCHES THICK FOR THE OTHER PIPELINE IF IT IS NEW AND IS CONVEYING WASTEWATER OR RECLAIMED WATER.

**MISCELLANEOUS WATER NOTES**

- WATER SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS, CLEANED, DISINFECTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND CHAPTER 62-565.330 FLORIDA ADMINISTRATIVE CODE.
- ALL PIPING SHALL BEAR THE "NSF" SEAL FOR POTABLE WATER.
- WATER MAINS SHALL BE PVC CONFORMING TO AWWA C-900, DR 18 FOR PIPE SIZES 4"-12", PIPE 14" OR LARGER SHALL BE AWWA C-905, DR 18. ALL COUPLINGS COMPOUNDS, SOLVENTS, LUBRICANTS AND PIPE PREPARATION, FOR LAYING, SHALL IN ACCORDANCE WITH THE PIPE MANUFACTURER'S LATEST RECOMMENDATIONS.
- DEPTH OF WATER LINES TO BE MINIMUM 36" BELOW FINISHED GRADE.
- WATER MAINS TO BE LOCATED 5' FROM BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- ALL WATER MAINS UNDER PAVEMENT SHALL BE DUCTILE IRON AND SHALL EXCEED 5' BEYOND THE BACK OF CURB.
- ALL SLEEVES UNDER PAVEMENT SHALL EXTEND 5' BEYOND THE BACK OF CURB.

**GENERAL WATER NOTES**

(2) 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 PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0666(2), F.S., AND RULE 64E-6.002, F.A.C.

(3) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS AND RECLAIMED WATER PIPELINES:

(A) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING AN EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID TO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

(B) SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES:

(A) NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE.

(B) EFFECTIVE AUGUST 28, 2003, WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE, WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THIS REQUIREMENT (I.E., WHERE THERE IS A CONFLICT IN THE ROUTING OF A WATER MAIN AND A STORM SEWER AND WHERE ALTERNATIVE ROUTING OF THE WATER MAIN OR THE STORM SEWER IS NOT TECHNICALLY FEASIBLE OR IS NOT ECONOMICALLY SENSIBLE). THE DEPARTMENT SHALL ALLOW EXCEPTIONS TO THIS REQUIREMENT (I.E., THE FEASIBILITY OF ALTERNATIVE ROUTING OF THE WATER MAIN OR THE STORM SEWER), BUT SUPPLIERS OF WATER OR PERSONS PROPOSING TO CONSTRUCT CONFLICT MANHOLES MUST FIRST OBTAIN A SPECIFIC PERMIT FROM THE DEPARTMENT IN ACCORDANCE WITH PART V OF THIS CHAPTER AND PERMIT APPLICATION THE FOLLOWING INFORMATION:

- TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH CONFLICT MANHOLE.
- A STATEMENT IDENTIFYING THE PARTY RESPONSIBLE FOR MAINTAINING EACH CONFLICT MANHOLE.
- ASSURANCE OF COMPLIANCE WITH THE DESIGN AND CONSTRUCTION REQUIREMENTS IN SUB-SUBPARAGRAPHS A, THROUGH D, BELOW - 281

A. EACH WATER MAIN PASSING THROUGH A CONFLICT MANHOLE SHALL HAVE A FLEXIBLE, WATER-TIGHT JOINT ON EACH SIDE OF THE MANHOLE TO ACCOMMODATE DIFFERENTIAL SETTLING BETWEEN THE MAIN AND THE MANHOLE.

B. WITHIN EACH CONFLICT MANHOLE, THE WATER MAIN PASSING THROUGH THE MANHOLE SHALL BE INSTALLED IN A WATER-TIGHT CASING PIPE HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE).

C. EACH CONFLICT MANHOLE SHALL HAVE AN ACCESS OPENING, AND SHALL BE SIZED, TO ALLOW FOR EASY CLEANING OF THE MANHOLE.

D. GRATINGS SHALL BE INSTALLED AT ALL STORM SEWER INLETS UPSTREAM OF EACH CONFLICT MANHOLE TO PREVENT LARGE OBJECTS FROM ENTERING THE MANHOLE.

(C) SEPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS. NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-410, F.A.C.; AT LEAST THREE FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-410, F.A.C.; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0666(2), F.S., AND RULE 64E-6.002, F.A.C.

(4) SEPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS. NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-410, F.A.C.; AT LEAST THREE FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-410, F.A.C.; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0666(2), F.S., AND RULE 64E-6.002, F.A.C.

**GENERAL WATER NOTES**

1. WATER SYSTEM COMPONENTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS, CLEANED, DISINFECTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND CHAPTER 62-565.330 FLORIDA ADMINISTRATIVE CODE.

2. ALL PIPING SHALL BEAR THE "NSF" SEAL FOR POTABLE WATER.

3. WATER MAINS SHALL BE PVC CONFORMING TO AWWA C-900, DR 18 FOR PIPE SIZES 4"-12", PIPE 14" OR LARGER SHALL BE AWWA C-905, DR 18. ALL COUPLINGS, CLEANING COMPOUNDS, SOLVENTS, LUBRICANTS, AND PIPE PREPARATION, FOR LAYING, SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S LATEST RECOMMENDATIONS.

4. DEPTH OF WATER LINES TO BE 36" MINIMUM COVER FROM FINISH GRADE.

5. WATER MAINS TO BE LOCATED 5' FROM BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

6. ALL SLEEVES UNDER PAVEMENT SHALL EXTEND 5' BEYOND THE BACK OF CURB.

7. DISINFECTING, FOLLOWING THE PRESSURE TESTING, THE CONTRACTOR SHALL DISINFECT ALL SECTIONS OF THE WATER DISTRIBUTION SYSTEM. DISINFECTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF AWWA STANDARDS C91 "DISINFECTING WATER"

8. ALL HYDROSTATIC TESTS SHALL BE IN ACCORDANCE WITH AWWA C200 FOR DUCTILE IRON PIPE AND C262/325 FOR PVC PIPE.

9. ALL WATER MAINS SHALL BE INSTALLED, PRESSURE AND LEAK TESTED IN ACCORDANCE WITH AWWA C200, (62-565.320(1)(B)) AND 62-565.330, F.A.C. ALL INSTALLATION, TESTING AND FIELD PROCEDURES MUST BE PROVIDED AND MUST CONFORM TO THE APPLICABLE AWWA STANDARDS.

10. ALL PIPING MATERIALS AND SPECIFICATIONS COVERING PIPES, JOINTS AND PACKING MATERIALS, INTERNAL COATING AND LININGS, FITTINGS, SPECIALS AND APPURTENANCES SHALL ALL BE IN ACCORDANCE WITH THE CORRESPONDING AWWA STANDARDS AND BE CONFORMING TO NSF REQUIREMENTS, AS MAY BE APPLICABLE, WITH EXCEPTIONS ALLOWED ONLY IF DOCUMENTATION AND ASSURANCES ARE PROVIDED IN COMPLIANCE WITH PARAGRAPH 62-565.320(2) (D), 62-565.320 (3) (B), AND 62-565.320 (2) (C), F.A.C. THE LEAD USE PROHIBITION IN RULE 62-565.322, F.A.C. SHALL ALSO APPLY. POLYETHYLENE TUBING SHALL BE PER AWWA C301, UNDERGROUND SERVICE LINES AND VALVES SHALL BE PER AWWA C300.

11. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-565.320(1)(B), F.A.C., USING BLUE AS A PREDOMINANT COLOR. UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE, WITH A WALL, AND UNDERGROUND METAL OR CONCRETE PIPE WILL HAVE BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 60 DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE. PIPE FOR WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. UNDERGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE. (FAC 62-565.320(1)(B))

12. ALL WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH CHAPTER 62-865.314, F.A.C., AND ANY UPDATES TO THE F.A.C., AND IN CONFORMANCE WITH ALL SEPARATION REQUIREMENTS AS FOUND THEREIN.

**62-865.314 LOCATION OF PUBLIC WATER SYSTEM MAINS.**

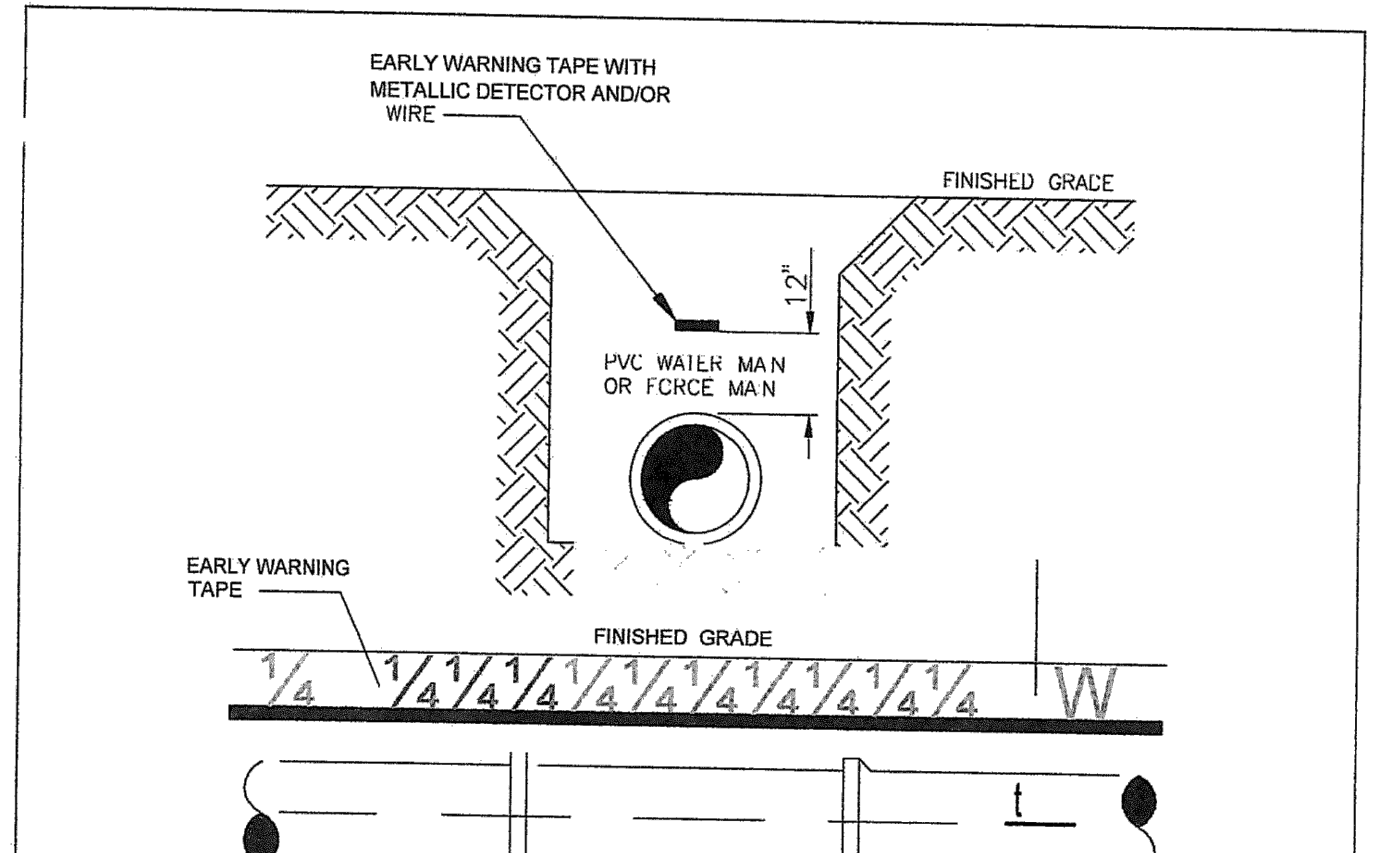
FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER; FIRE HYDRANT LEADS; AND SERVICE LINES THAT ARE UNDER THE CONTROL OF A PUBLIC WATER SYSTEM AND THAT HAVE AN INSIDE DIAMETER OF THREE INCHES OR GREATER.

(1) 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:

(A) 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 III OF CHAPTER 62-410, F.A.C.

(B) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.

(C) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN 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 III OF CHAPTER 62-410, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.



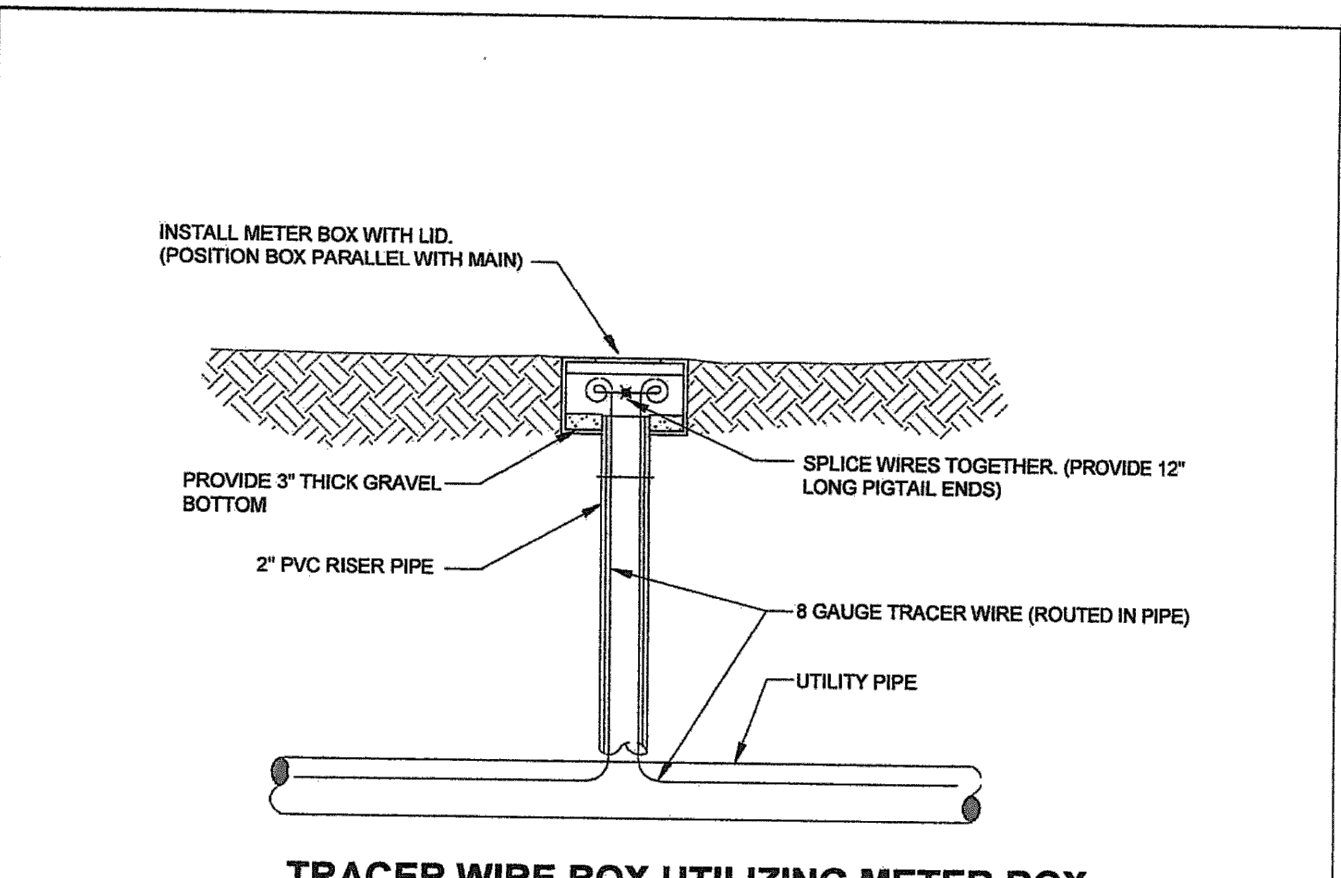
**UTILITY PIPE LOCATION MATERIAL**

ALL MAINS INSTALLED BY OPEN CUT SHALL HAVE A "EARLY WARNING" PROTECTION TAPE AND WIRE INSTALLED CONTINUOUSLY ALONG THE ALIGNMENT. THE PROTECTION TAPE SHALL BE TERRA-TAPE OR EQUAL TAPE SHALL BE INSTALLED DURING BACKFILLING 12" ABOVE THE PIPE AND SHALL BE CONTINUOUSLY MARKED FOR THE DETECTABLE STRIP INCLUDED AND COLOR CODED AS

NOTES:

- ALL MAINS INSTALLED BY OPEN CUT SHALL HAVE A "EARLY WARNING" PROTECTION TAPE AND WIRE INSTALLED CONTINUOUSLY ALONG THE ALIGNMENT. THE PROTECTION TAPE SHALL BE TERRA-TAPE OR EQUAL TAPE SHALL BE INSTALLED DURING BACKFILLING 12" ABOVE THE PIPE AND SHALL BE CONTINUOUSLY MARKED FOR THE DETECTABLE STRIP INCLUDED AND COLOR CODED AS
- ALL PVC MAINS SHALL BE A SOLID COLOR AS DESCRIBED ABOVE. ALL DUCTILE IRON MAINS SHALL BE WRAPPED WITH COLOR CODED BAGS. ALL PVC POTABLE WATER PIPE SHALL BEAR THE NATIONAL SANITATION FOUNDATION (NSF) SEAL OF APPROVAL.

FOLLOWING: **B** - POTABLE WATER  
**G** - SANITARY FORCE MAIN, GRAVITY SEWER, LOW PRESSURE MAIN  
**P** - EFFLUENT REUSE  
**R** - DEDICATED FIRE LINE



**TRACER WIRE BOX UTILIZING METER BOX**

INSTALL METER BOX WITH LID. (POSITION BOX PARALLEL WITH MAIN)

PROVIDE 2" THICK GRAVEL BOTTOM

SPlice WIRES TOGETHER. (PROVIDE 12" LONG PIGTAIL ENDS)

2" PVC RISER PIPE

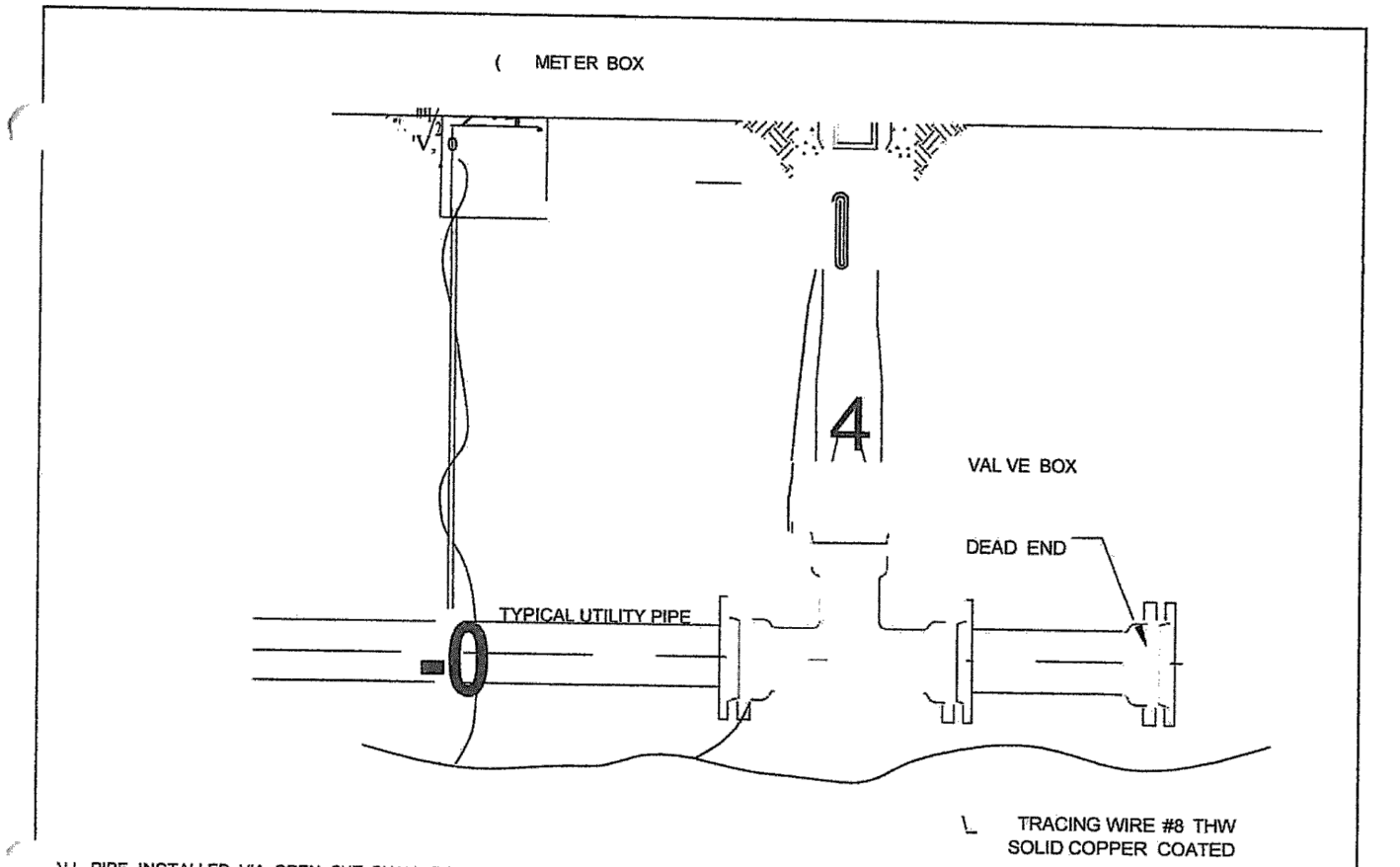
8 GAUGE TRACER WIRE (ROUTED IN PIPE)

UTILITY PIPE

NOTES:

- TRACER WIRE STATION BOX TO BE INSTALLED WHERE THE WIRE CANNOT BE BROUGHT TO GRADE IN A VALVE BOX WITHIN THE MANDATORY 500 FOOT INTERVAL OR WHERE A SPLICE MUST BE MADE ON THE TRACER
- NO UNDERGROUND SPLICES
- BOXES SHALL NOT BE LOCATED IN ROADWAYS OR DRIVEWAYS.
- BOX AND LID PER DETAIL W-18
- TRAFFIC RATED LID (STANDARD-NON BOLT DOWN)
- LID COLOR SHALL BE PRE-MANUFACTURED OR PAINTED TO MATCH SERVICE (BLUE= WATER, GREEN=SEWER, PURPLE=RECLAIM)

**TRACER WIRE BOX**



**UTILITY PIPE LOCATION MATERIALS**

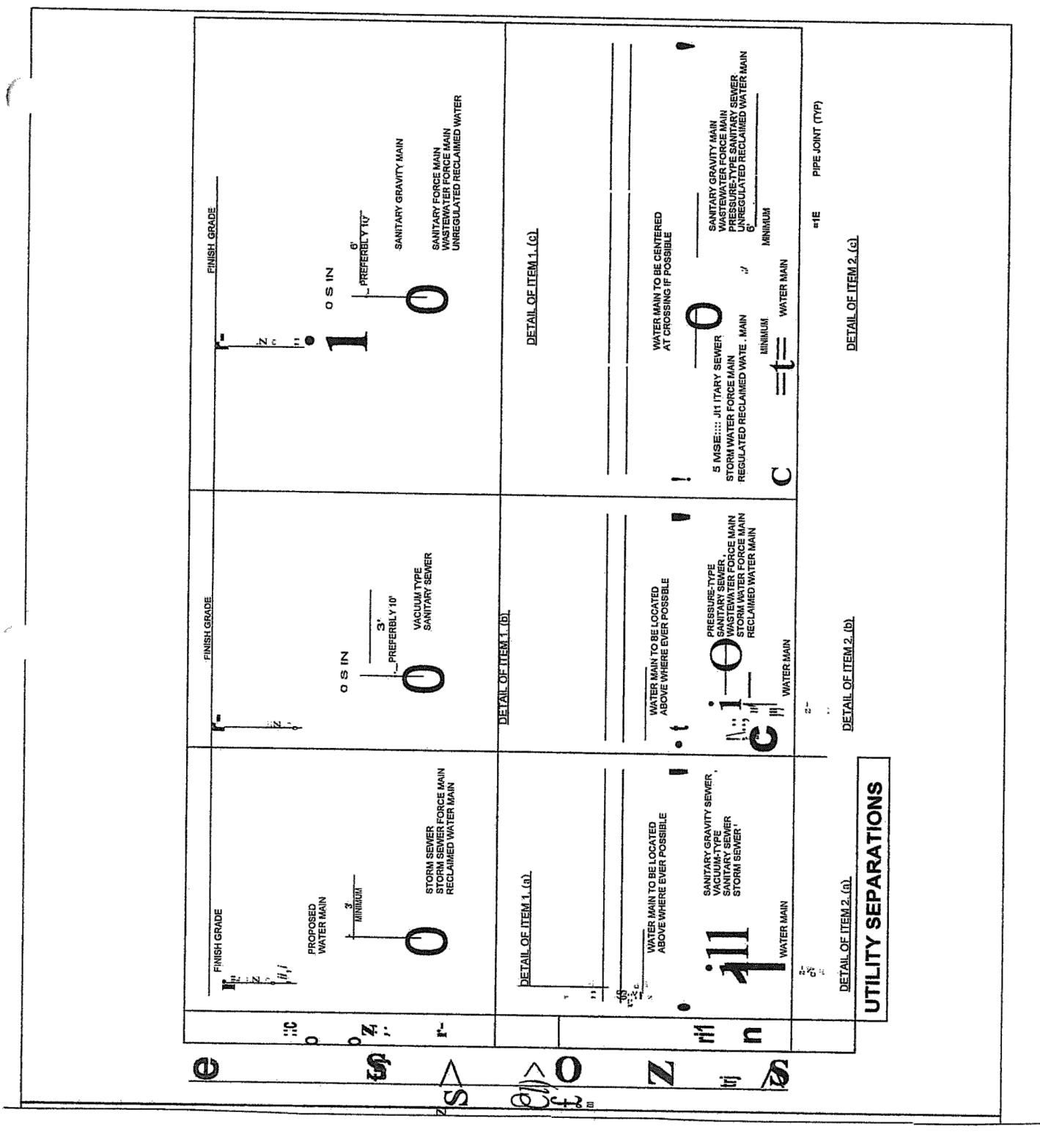
ALL PIPE INSTALLED VIA OPEN CUT SHALL BE INSTALLED WITH 8 THW SOLID COPPER COATED TRACING WIRE. ALL PIPE INSTALLED VIA HDD SHALL BE INSTALLED WITH TWO #12 COPPER CLAD STEEL WIRES.

THE TRACING WIRE MUST BE INSTALLED DIRECTLY BELOW THE PIPE AND BROUGHT TO THE SURFACE AT 500 MINIMUM INTERVALS. WIRE SHALL EXTEND A MINIMUM OF 12" ABOVE GRADE AT EACH INTERVAL AND BE COILED AND PLACED IN A VALVE BOX, METER BOX, MANHOLE, CLEANOUT, LOCATE WIRE BOX, OR OTHER APPLICABLE STRUCTURE.

**COLOR CODING:**

POTABLE WATER SYSTEM: BLUE  
REUSE WATER SYSTEM: PURPLE  
SANITARY SEWER, FORCE MAINS AND LOW PRESSURE SEWER SYSTEMS: GREEN

- FOR LOW PRESSURE SEWER, POTABLE WATER AND REUSE WATER SYSTEMS: WIRE SHALL BE INSTALLED BELOW ALL MAINS AND SERVICE LINES AND ATTACHED TO VALVES, HYDRANTS AND FITTINGS. WIRE INSTALLED WITH SERVICE LINES SHALL CONNECT TO THE WIRE INSTALLED BELOW THE MAIN AND EXTEND TO THE CURB STOP.
- FIRE SPRINKLER LINES: WIRE SHALL CONNECT TO THE WIRE INSTALLED BELOW THE MAIN AND EXTEND TO THE RISER CONNECTION.
- SANITARY SEWER FORCE MAINS: WIRE SHALL BE INSTALLED BELOW THE FORCE MAIN AND ATTACHED TO ALL VALVES AND FITTINGS AND BROUGHT TO THE SURFACE AND PLACED IN A METAL, FLORIDA WATER SERVICE APPROVED, VALVE BOX.
- DEAD END MAINS: WIRE SHALL BE PLACED IN A PROPERLY IDENTIFIED METAL VALVE BOX AT THE END OF THE RUN.
- WIRE SHALL NOT BE FASTENED OR COILED TO VALVE OPERATING NJ T.



**UTILITY SEPARATIONS**

WATER MAIN SEPARATION WITH VALVE

WATER MAIN SEPARATION

SEWER SEPARATION

BEND	3" DIA		4" DIA		6" DIA		8" DIA		10" DIA	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
22.5°	15"	25"	18"	28"	24"	34"	30"	40"	42"	52"
45°	20"	30"	24"	34"	30"	40"	36"	46"	48"	58"
90°	24"	34"	30"	40"	36"	46"	42"	52"	54"	64"
112.5°	28"	38"	34"	44"	40"	50"	46"	56"	58"	68"

**THRUST RESTRAINT DESIGN NOTES:**

- RESTRAINT LENGTHS, REINFORCEMENT AND VALVE REQUIREMENTS CALCULATED BY THE THRUST RESTRAINT DESIGN PROGRAM PROVIDED BY FEMA/HDR ENGINEERING, INC.
- DATA BASED ON 150 PSI CONCRETE AND 60,000 PSI STEEL. THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) TYPE OF SOIL, THE PIPE BEHIND THE RESTRAINT, THE MINIMUM COVER BELOW THE PIPE, AND THE SAFETY FACTOR OF 1.5 FOR THE DATA.
- ALL FITTINGS & VALVES SHALL HAVE RESTRAINTS WITH "WEDGE" RESTRAINTS & ALL WELL & BRIST JOINTS TO BE RESTRAINED WITH A RESTRAINTS HAVING THE REQUIRED LENGTH OF RESTRAINTS PER DETAIL.
- THRUST BLOCKS SHALL BE USED ONLY AS SPECIFIED BY PROJECT ENGINEER.

**THRUST RESTRAINT DETAILS**

NOT TO SCALE

**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**  
No. 79452  
STATE OF FLORIDA  
PROFESSIONAL SEAL  
DATE: 01/11/2021  
CERTIFICATE OF AUTHORIZATION NO. CE-0007723

DATE: 10/22/2021

REVISIONS

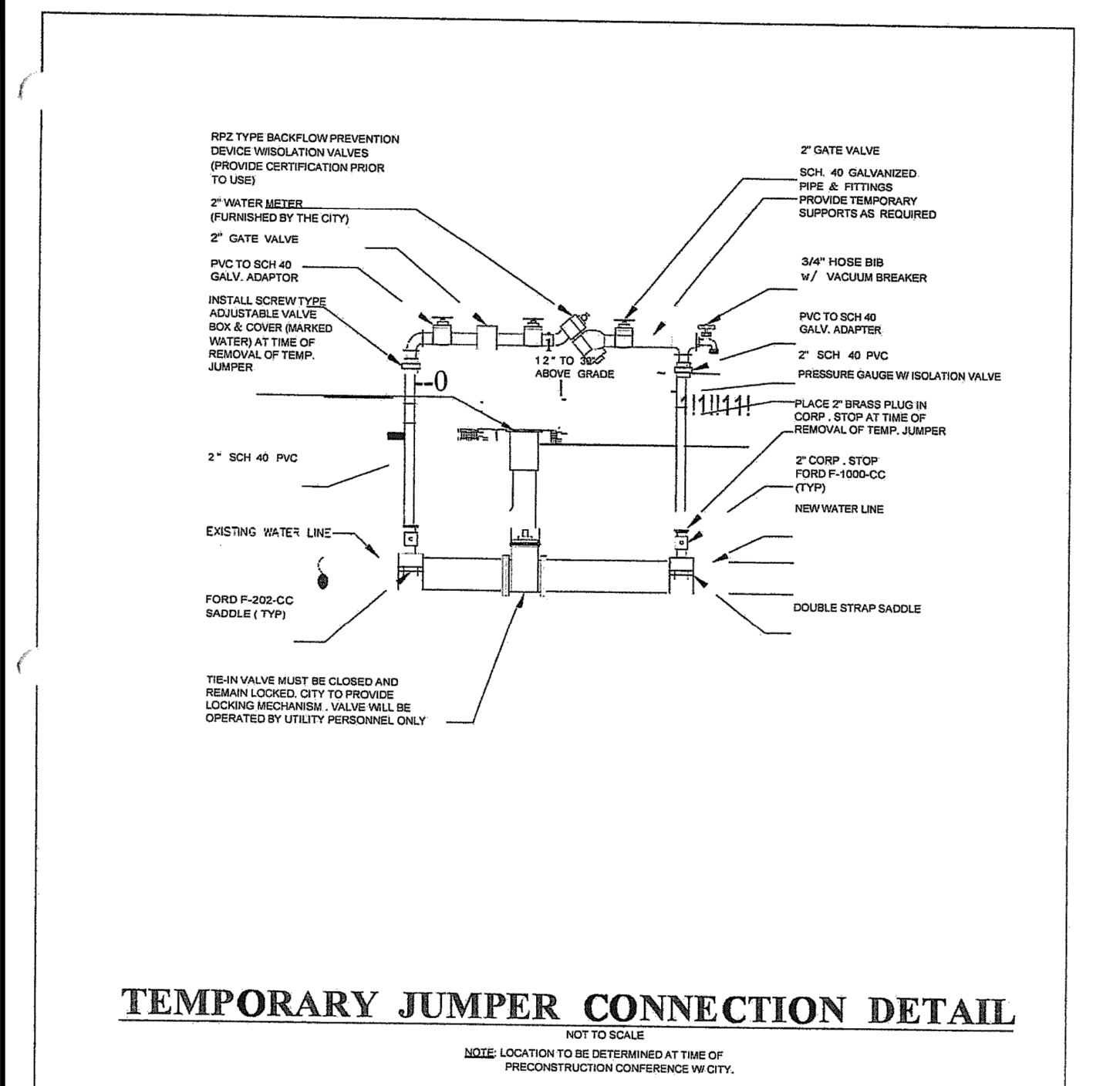
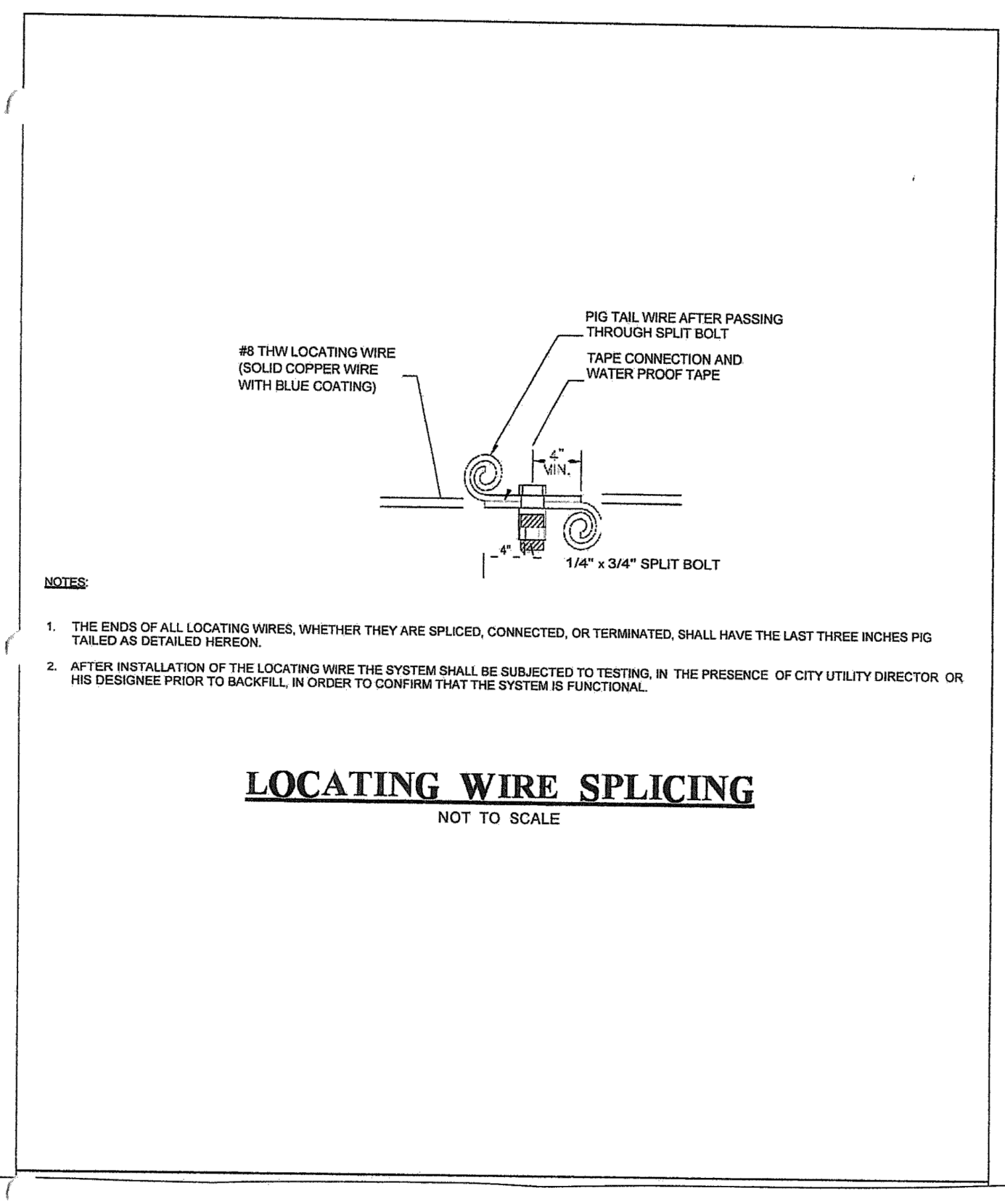
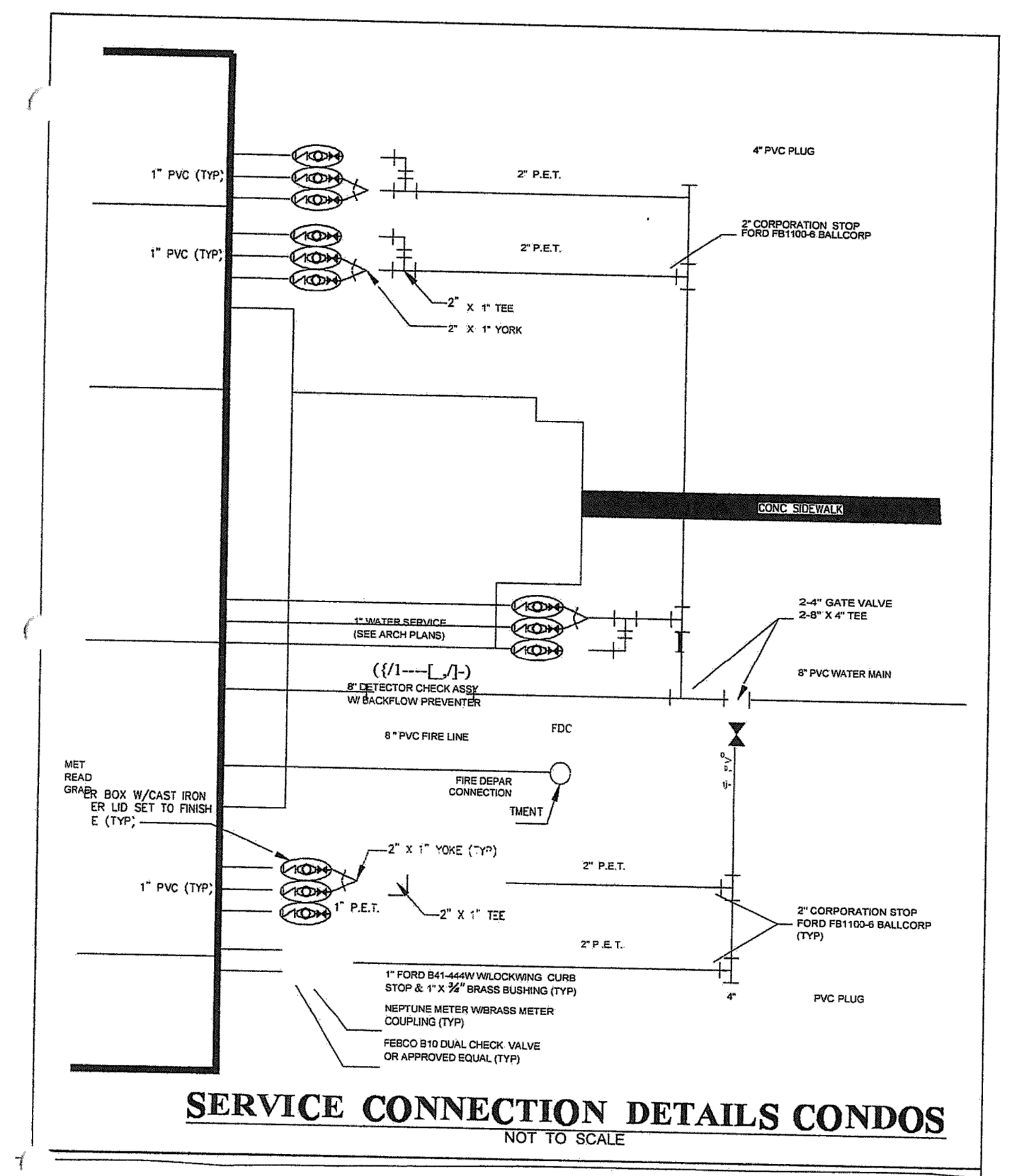
NO.	DATE	DESCRIPTION

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

C913

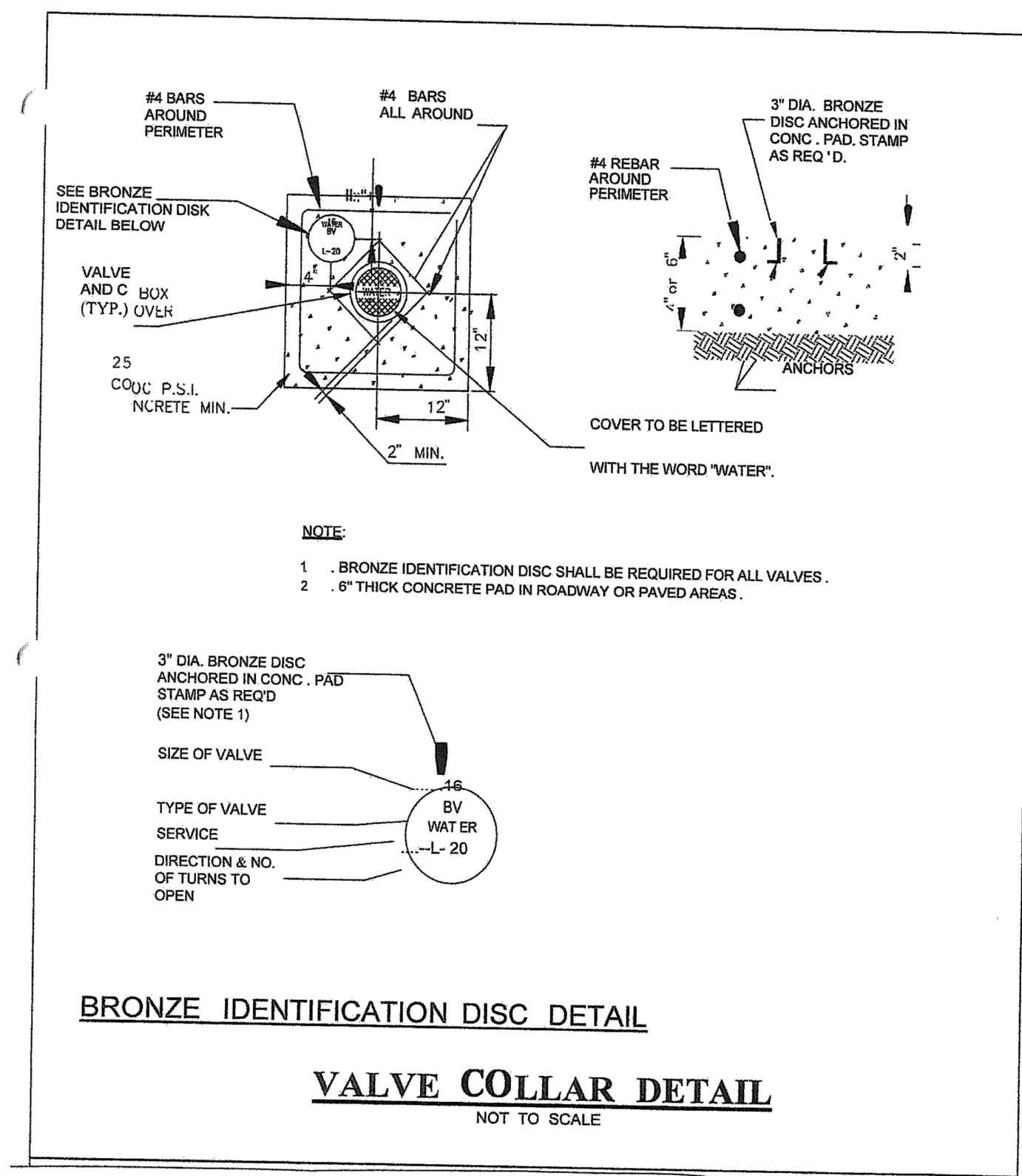
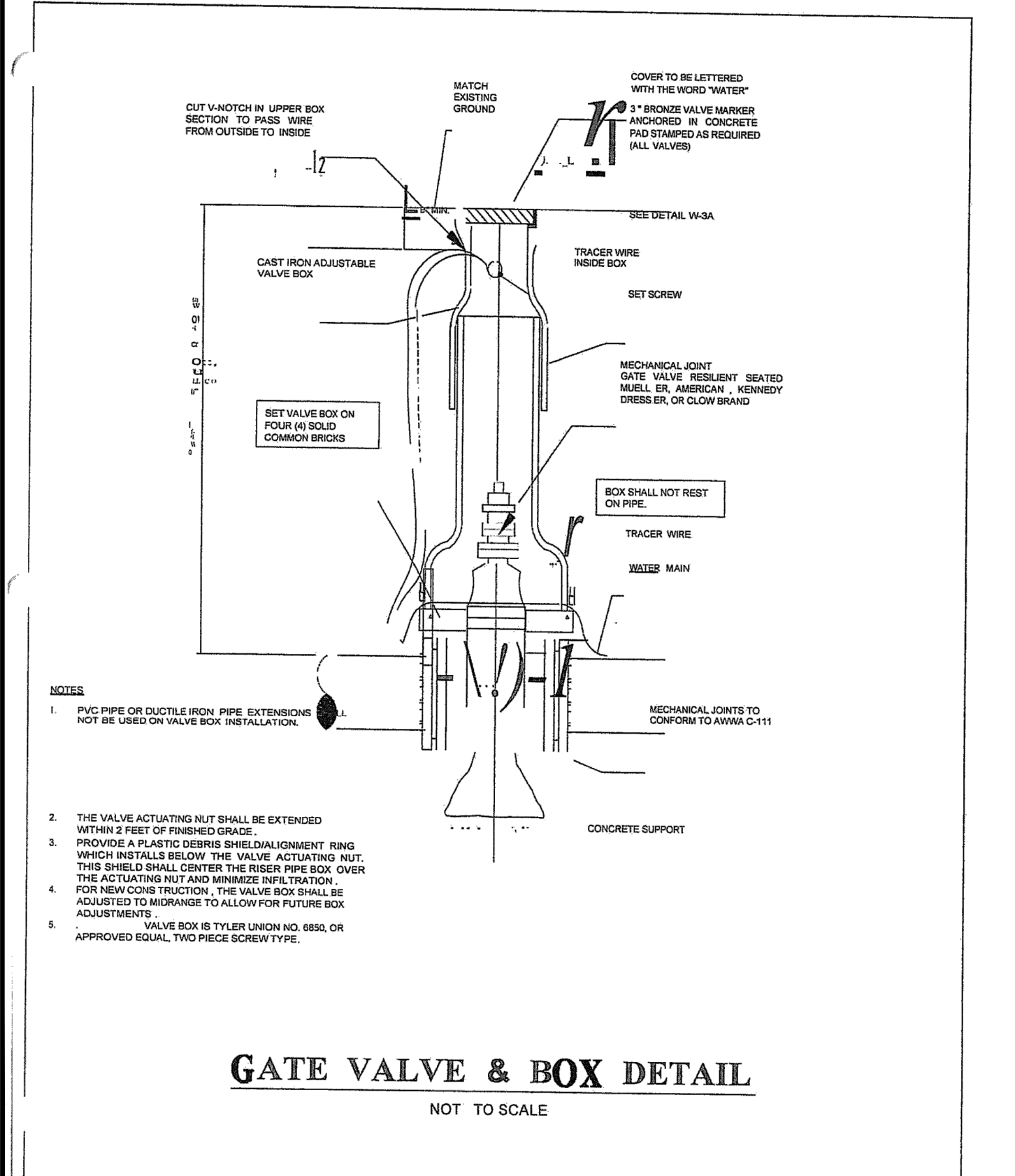
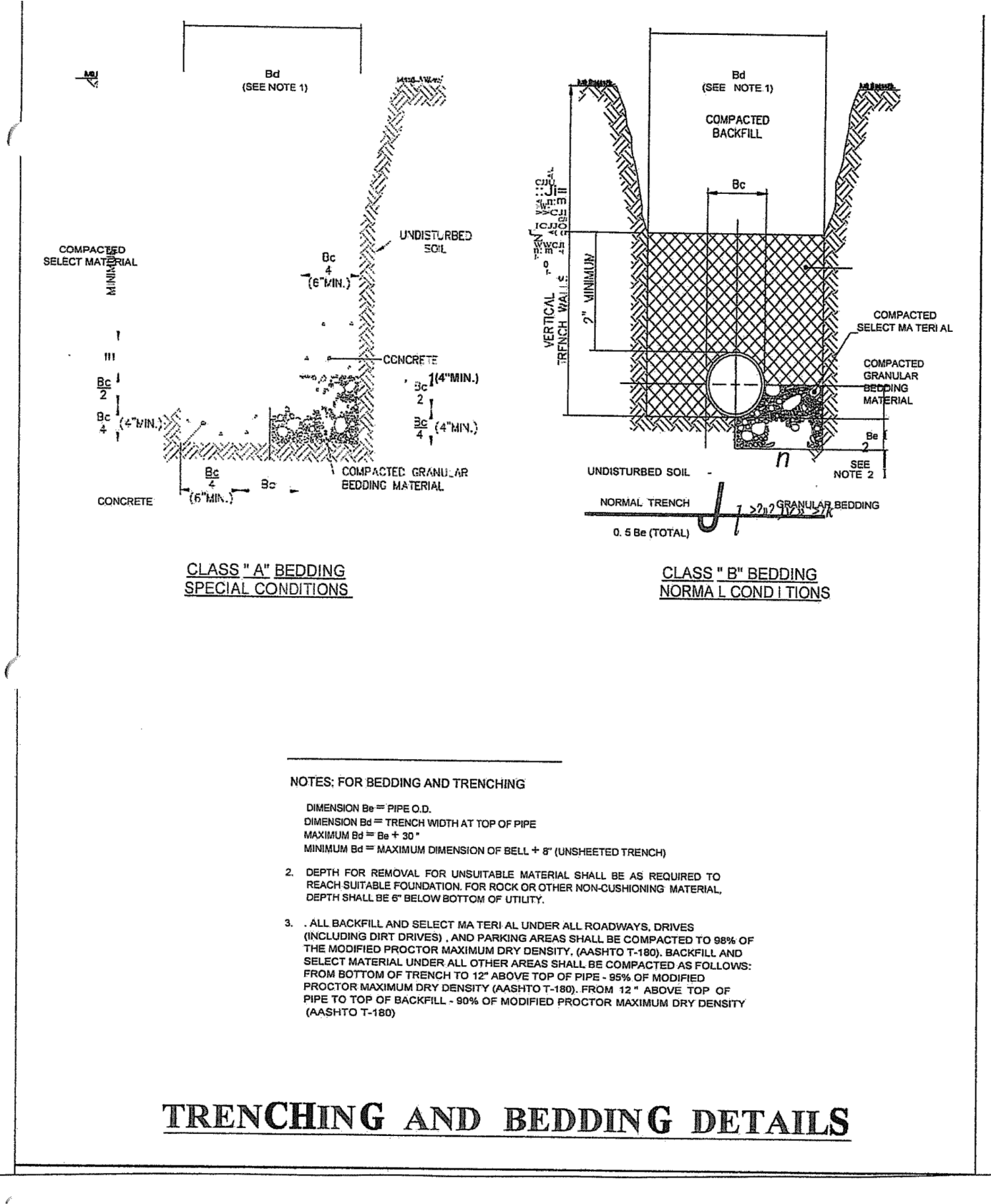
NO.	DATE	REVISIONS

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



**TEMPORARY JUMPER CONNECTION NOTES**

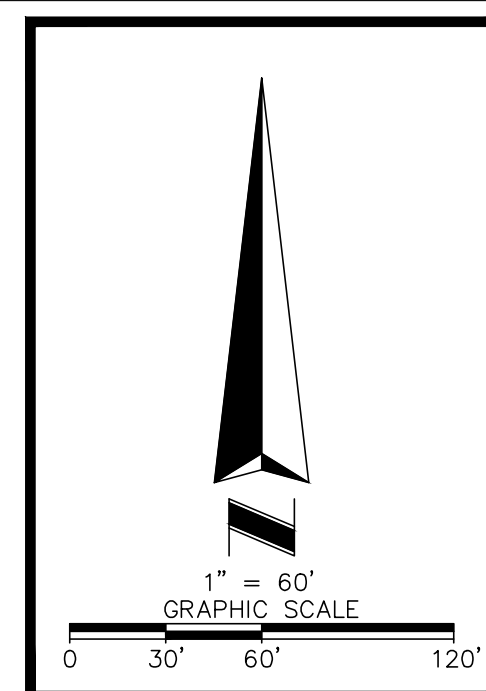
- A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS.
- THE DETAILS TO BE USED FOR FILLING ANY WATER MAIN OF ANY SIZE FROM EXISTING ACTIVE WATER MAINS AND FOR FLUSHING OF NEW MAINS UP TO 8" DIAMETER (2.5 FPS MINIMUM VELOCITY) AND FOR PULLING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE. THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER FLUSHING, TESTING AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND OTHER PERTINENT AGENCIES HAS BEEN RECEIVED. THE JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE NEW MAINS ALL THE TIME AFTER DISINFECTION AND UNTIL THE FDEP CLEARANCE LETTER IS OBTAINED. ADEQUATE THRUST BLOCKING AND/OR RESTRAINTS SHALL BE PROVIDED TEMPORARILY AS REQUIRED. PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651, LATEST EDITION. THIS TAPPING SLEEVE AND THE EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISINFECTED BY SPRAYING OR SWABING PER SECTION 1 OF AWWA C651, LATEST EDITION.
- FLUSHING OF 10" DIAMETER AND LARGER WATER MAINS MAY BE DONE THROUGH THE TIE-IN VALVE, IN THE PRESENCE OF THE UTILITY DIRECTOR OR HIS DESIGNEE. THE UTILITY DEPARTMENT WILL NOTIFY IN WRITING 48 HOURS PRIOR TO THE FLUSHING OF SAID MAINS. THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:
  - THE TIE-IN VALVES SHALL BE OPERATED AND PRESSURE TESTED IN THE PRESENCE OF THE UTILITY COMPANY AND ENGINEER TO VERIFY WATER TIGHTNESS PRIOR TO THE TIE-IN. VALVES WHICH ARE NOT WATER TIGHT SHALL BE REPLACED OR A NEW VALVE INSTALLED IMMEDIATELY ADJACENT TO THE LEAKING VALVE.
  - THE TEMPORARY JUMPER CONNECTION SHALL BE CONSTRUCTED AS DETAILED. THE JUMPER CONNECTION SHALL BE USED TO FILL THE NEW WATER MAIN AND FOR PROVIDING WATER FOR BACTERIOLOGICAL SAMPLING OF THE NEW MAIN AS REQUIRED BY THE FDEP PERMIT. FLUSHING SHALL NOT BE ATTEMPTED DURING PEAK DEMAND HOURS OF THE EXISTING WATER MAIN. ALL DOWNSTREAM VALVES IN THE NEW SYSTEM MUST BE OPEN PRIOR TO OPENING THE TIE-IN VALVE. PROVIDE FOR AND MONITOR THE PRESSURE AT THE TIE-IN POINT. THE PRESSURE IN THE EXISTING MAIN MUST NOT DROP BELOW 35 PSI. TIE-IN VALVE SHALL BE OPENED A FEW TURNS ONLY, ENSURING A PRESSURE DROP ACROSS THE VALVE IS ALWAYS GREATER THAN 10 PSI. THE TIE-IN VALVE SHALL BE LOCKED CLOSED BY THE CITY UNTIL FLUSHING BEGINS. THE TIE-IN VALVE SHALL BE OPENED ONLY A FEW TURNS FOR FLUSHING OF THE NEW MAIN. THE PROCEDURE SHALL BE DIRECTED BY THE CITY AND OBSERVED BY THE ENGINEER. AFTER FLUSHING, THE TIE-IN VALVE SHALL BE CLOSED AND LOCKED IN THE CLOSED POSITION BY THE CITY.
- THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE RPZ BACKFLOW PREVENTION DEVICE HAS BEEN TESTED WITHIN ONE YEAR AT THE TIME OF INSTALLATION AND IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION. THE TEST SHALL BE PERFORMED BY A QUALIFIED BACKFLOW PREVENTION TECHNICIAN.
- EXCEPT AS REQUIRED TO FLUSH LINES OF GREATER THAN 8" IN DIAMETER, THE TIE-IN VALVE SHALL REMAIN CLOSED AND SHALL BE LOCKED IN THE CLOSED POSITION BY THE CITY. THE TIE-IN VALVE SHALL REMAIN LOCKED CLOSED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY FDEP AND ALL OTHER PERTINENT AGENCIES.
- UPON RECEIPT OF CLEARANCE FOR USE FROM FDEP AND ALL OTHER PERTINENT AGENCIES, THE CONTRACTOR SHALL REMOVE THE JUMPER CONNECTION, THE CORPORATION STOPS ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS PLUGS.
- ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION DEVICE FITTINGS, VALVE, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



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

FOR FIRM #643 DATE

E. GLENN TURNER



**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.

DATE	REVISIONS	TECH	KLK
10/20/21	ADDED SANITARY INVERTS		

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

HOWIE IN THE HILLS, FLORIDA

**LEGEND AND ABBREVIATIONS**

- 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.
  - SANITARY PIPE SIZE AND MATERIALS TOO DEEP TO FIELD DETERMINE. SANITARY PIPE SIZES AND MATERIAL ARE PER HALF CONCEPT PLANS DATED APRIL 2021.

**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	—	VINYL FENCE
⊠	WATER METER	— ss	SANITARY SEWER LINE
⊠	WATER VALVE	—	STORM DRAIN LINE

**ADJACENT PROPERTY TABLE**

DESIGNATION	OWNER	APN	ORB/PAGE
A	JOSEPH ANTOINE & MARIE	35-20-25-0200-000-11800	5382/710
B	AUTRAN SUZETTE A & MATTHEW GRAM	35-20-25-0200-000-11700	5312/110
C	DAWSON DAVID A & KIMBERLY E	35-20-25-0200-000-11600	5275/1576
D	PAPARELLA LOUIS A SR	35-20-25-0200-000-11500	5262/1788
E	FRANCIS REVOCABLE FAMILY TRUST	35-20-25-0200-000-11400	5440/696
F	BARRIGER CALEB P & WENDY L	35-20-25-0200-000-11300	5493/219
G	KHALEEL AZEEM S & CARMEN ELENA-PAZ	35-20-25-0200-000-11200	5567/1484
H	TORRES FAMILY TRUST	35-20-25-0200-000-11100	5522/518
I	BLOCKED	BLOCKED	BLOCKED
J	VENEZIA SOUTH MASTER PROPERTY OWNERS ASSC INC	35-20-25-0200-000-00000	N/A

