

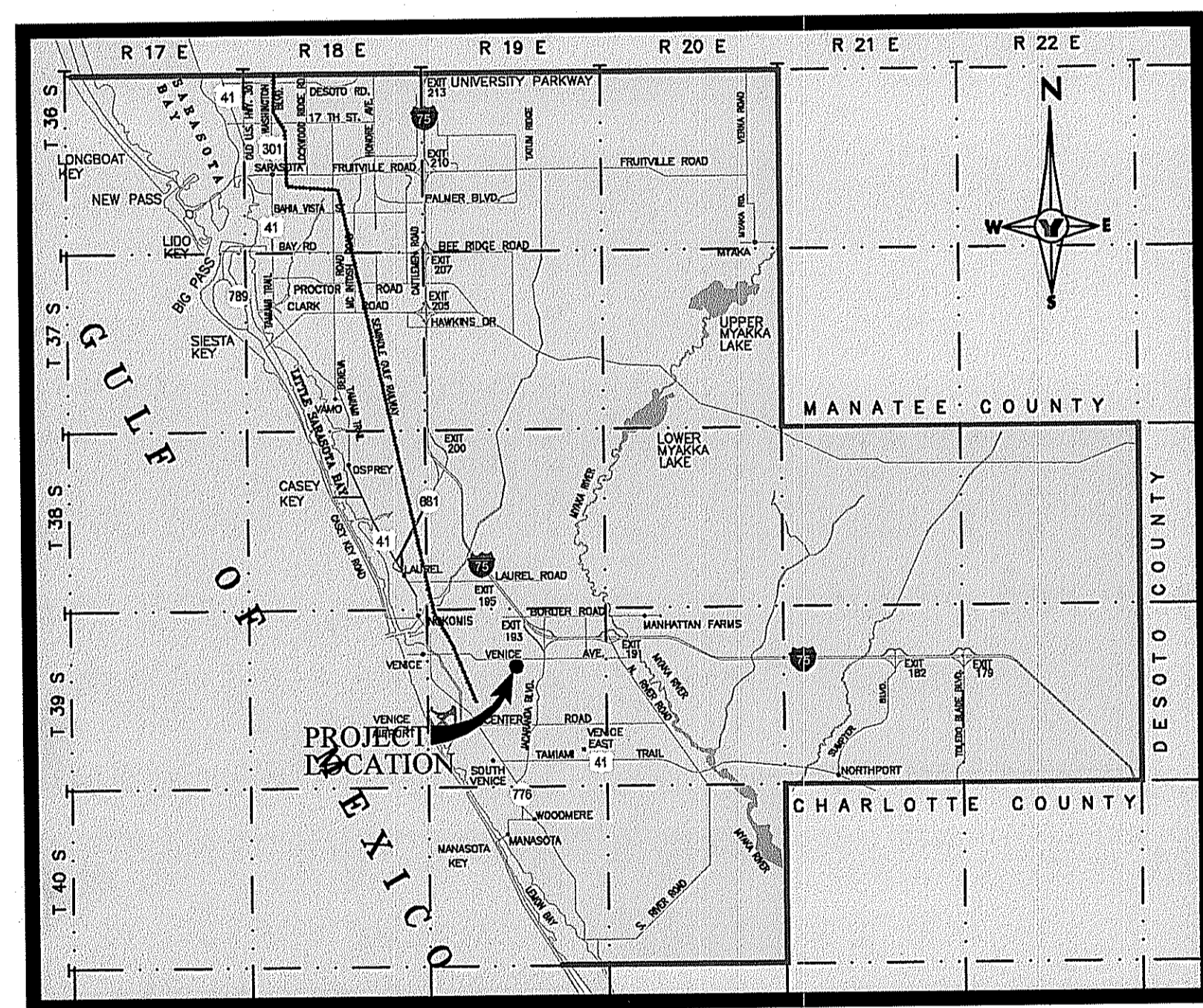
# WATERFRONT ON HATCHETT CREEK

HATCHETT CREEK ASSOCIATES, LLC  
101 EAST MAIN STREET, SUITE 500  
MT. HOREB, WISCONSIN 53572

## FULL SANITARY SEWER CERTIFICATION

### RECORD PLANS SECTION 9 , TOWNSHIP 39 SOUTH, RANGE 19 EAST

RECORD DRAWINGS  
November 27, 2023  
APPROVED



SARASOTA COUNTY LOCATION MAP

**PROJECT CONTACT LIST:**

**SITE OWNER/DEVELOPER:** HATCHETT CREEK ASSOCIATES, LLC  
101 EAST MAIN STREET, SUITE 500  
MT. HOREB, WISCONSIN 53572  
PHONE: (808) 437-8301

**ARCHITECTURE:** PLUNKETT RAYSICH ARCHITECTS, LLP  
205 N. ORANGE AVE., SUITE 202  
SARASOTA, FLORIDA 34236  
PHONE: (941) 444-8845

**CIVIL ENGINEERING:** GEORGE F. YOUNG, INC.  
10540 PORTAL CROSSING, SUITE 105  
LAKEWOOD RANCH, FLORIDA 34211-4913  
PHONE: (941) 747-2981  
FAX: (941) 747-7234

**SURVEYOR:** GEORGE F. YOUNG, INC.  
10540 PORTAL CROSSING, SUITE 105  
LAKEWOOD RANCH, FLORIDA 34211-4913  
PHONE: (941) 747-2981  
FAX: (941) 747-7234

**LANDSCAPE ARCHITECT:** DAVID W. JOHNSTON  
ASSOCIATES, INC.  
630 S. ORANGE AVE, SUITE 202  
SARASOTA, FLORIDA 34236  
PHONE: (941) 366-3159

**CONTRACTOR:** TO BE DETERMINED

**CRAIG ENZENROTH, PRESIDENT**  
EMAIL: cenzenroth@gallinacos.com

**JOHN J. HOLZ, AIA, NCARB, LEED AP B+C**  
EMAIL: jholz@prarch.com

**MARK A. ADLER, PE**  
EMAIL: adler@georgefyoung.com

**PETER LUTZ, PSM**  
EMAIL: lutz@georgefyoung.com

**PHILLIP J. SMITH, ASLA**  
EMAIL: phil@dwja.net

**TBD**  
EMAIL:

**George F. Young, Inc.**  
10540 PORTAL CROSSING, SUITE 105 LAKEWOOD RANCH, FLORIDA 34211-4913  
PHONE (941) 747-2981 FAX (941) 747-7234 WWW.GEORGEFYOUNG.COM  
ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21  
CIVIL & TRANSPORTATION ENGINEERING | ECOLOGY | GIS | LANDSCAPE ARCHITECTURE  
PLANNING | SURVEYING | SUBSURFACE UTILITY ENGINEERING  
GAINESVILLE • LAKEWOOD RANCH • ORLANDO • ST. PETERSBURG • TAMPA

PROJECT NO. 18000600LC

**CITY OF VENICE CONSTRUCTION NOTES:**

- ALL WORK CONDUCTED IN THE CITY OF VENICE RIGHT OF WAY (ROW) WILL REQUIRE THE ISSUANCE OF A ROW USE PERMIT.
- ALL WORK CONDUCTED IN SARASOTA COUNTY AND/OR FDOT ROW SHALL REQUIRE A COPY OF THE ISSUED PERMITS.
- TREE REMOVAL PERMIT MUST BE OBTAINED FROM CITY OF VENICE NATURAL RESOURCES DEPARTMENT.
- POST-DEVELOPMENT RUNOFF DOES NOT EXCEED PRE-DEVELOPMENT RUNOFF VOLUME OR RATE FOR A 24-HOUR, 25 YEAR STORM EVENT.
- ALL FIRE SERVICE BACKFLOW ASSEMBLIES SHALL BE INSTALLED BY A CERTIFIED CONTRACTOR WITH A CLASS I, II OR V CERTIFICATE OF COMPETENCY ISSUED BY THE STATE FIRE MARSHALL AS PER F.S. 633.621.
- CONSTRUCTION SITE MUST BE POSTED WITH 24-HOUR CONTACT INFORMATION.
- ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, SHALL MEET CITY OF VENICE STANDARDS.
- CONTACT PUBLIC WORKS SOLID WASTE DIVISION (941-486-2422) FOR APPROVAL OF DUMPSTER LOCATION AND LAYOUT PRIOR TO CONSTRUCTION.
- ALL IMPROVEMENTS WILL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST VERSION OF THE CITY STANDARD DETAILS.

**VERTICAL DATUM NOTE**

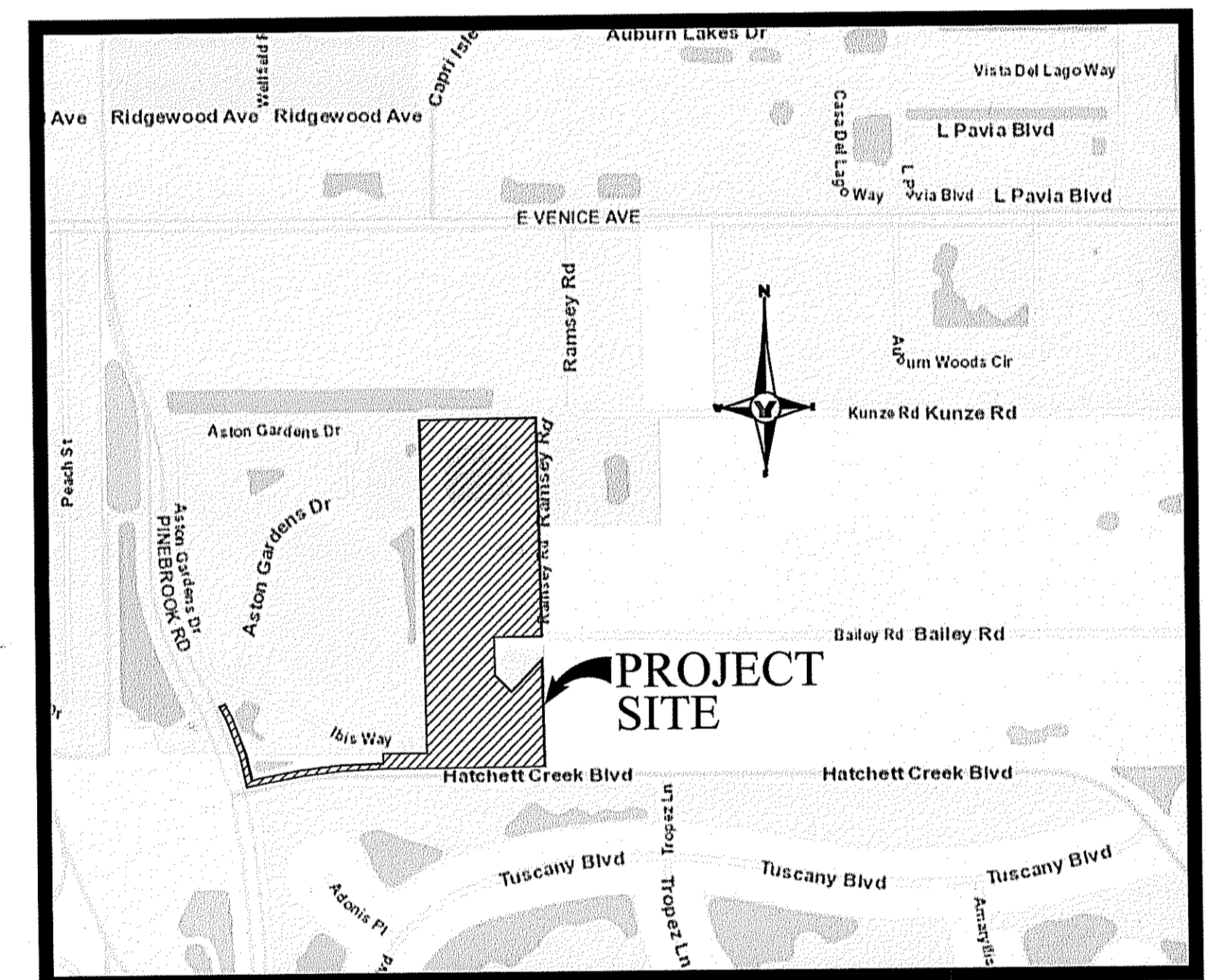
ELEVATIONS ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) BENCH MARK DESIGNATION: G 699, PID: DL2707, WHICH HAS A PUBLISHED ELEVATION OF 14.06 FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).  
ELEVATION CONVERSION FROM NAVD88 TO NGVD29 = + 1.125 FEET

**I HEREBY CERTIFY**

THAT THESE RECORD DRAWINGS REPRESENTS TO THE BEST OF MY KNOWLEDGE AND BELIEF THE SITE REPRESENTATIONS AS SHOWN HEREON WAS OBTAINED FROM FIELD SURVEY PERFORMED UNDER MY DIRECTION TOGETHER WITH INFORMATION PROVIDED TO ME OF THE SITE CONTRACTOR.

**George F. Young, Inc.**  
10540 PORTAL CROSSING, SUITE 105 LAKEWOOD RANCH, FLORIDA 34211-4913  
DATE: 11/27/2023  
BY: Mark A. Adler, PE  
No. 37799

Sheet List Table	
SHEET NUMBER	SHEET TITLE
X --	COVER
X C1	AERIAL SITE PLAN
X C2-C3	GENERAL NOTES
X C12	MASTER UTILITY PLAN
X C13-C15	UTILITY PLAN
X C15c	SWING TIE TABLE
X C16-C18	SANITARY SEWER GRAVITY MAIN PROFILE
X C19-C20	SANITARY SEWER FORCE MAIN PROFILE
X C31	GENERAL UTILITY DETAILS
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X C33-C34	LIFT STATION DETAILS



VICINITY MAP

**WATERFRONT ON HATCHETT CREEK  
HATCHETT CREEK ASSOCIATES, LLC  
RECORD PLANS**

CITY OF VENICE  
RECORD DRAWING  
SUBMITTAL  
ISSUED 11/21/2023

**MARK ALAN ADLER, PE**  
No. 37799  
DATE: 11/27/2023  
No. 37799

PROJECT NO. 18000600LC

FOR AGENCY USE

**Know what's below.  
Call before you dig.  
callsunshine.com**

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION, TYPE, MATERIAL AND DEPTH OF ALL UTILITIES IN THE AREA OF THIS PROJECT (ABOVE AND BELOW GROUND). CONTRACTOR SHALL NOTIFY UTILITY OWNER(S) 48 HOURS PRIOR TO BEGINNING WORK. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF ANY POTENTIAL UTILITY CONFLICTS PRIOR TO ANY CONSTRUCTION ACTIVITIES.

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THE DESIGN OF THIS PROJECT, AS PREPARED UNDER MY PERSONAL DIRECTION AND CONTROL, COMPLIES WITH ALL APPLICABLE STANDARDS.

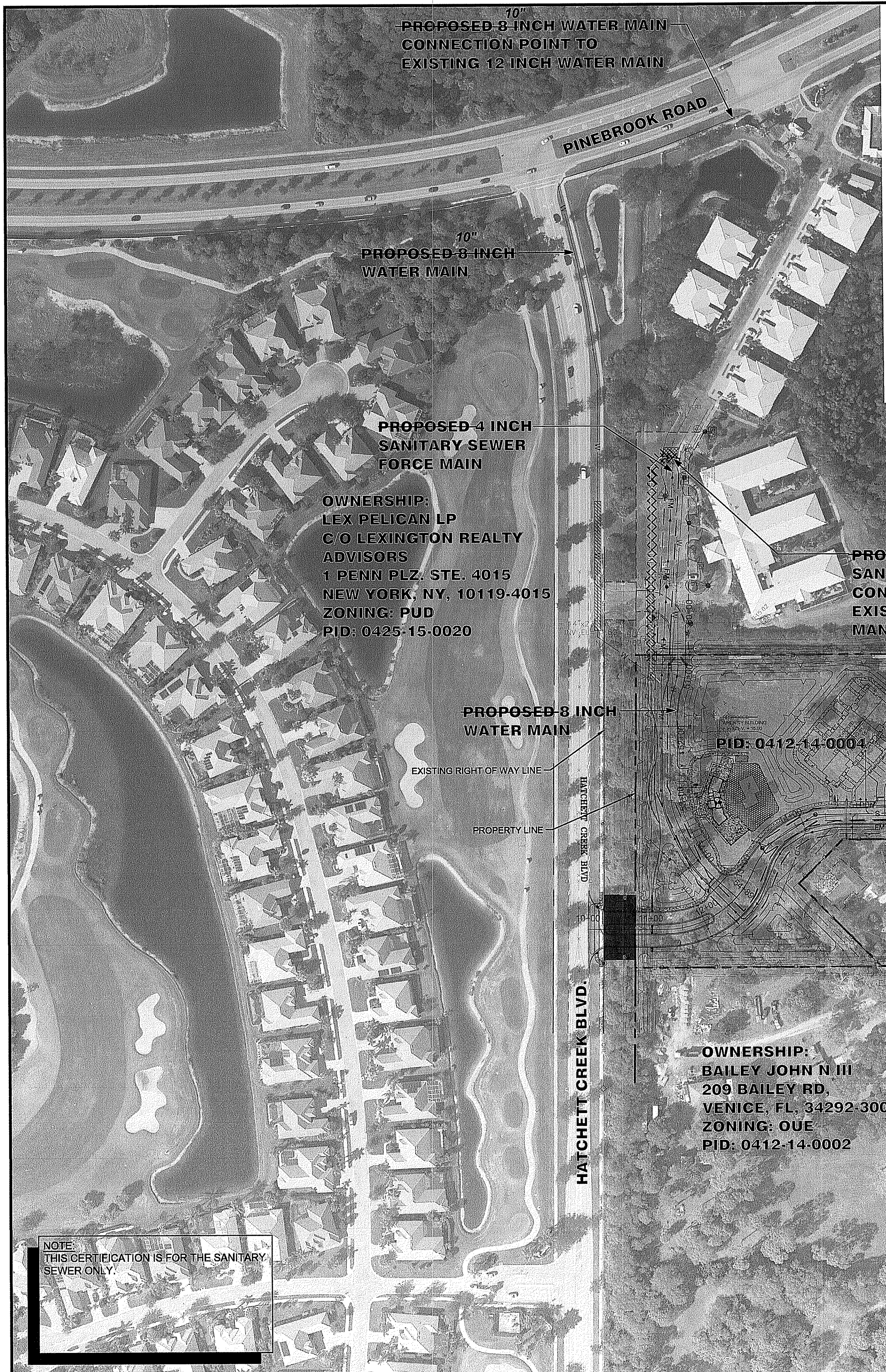
THESE PLANS ARE IN COMPLIANCE WITH THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" AS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION PURSUANT TO SUBSECTIONS 335.075(1) AND (4), FLORIDA STATUTES AND THE COUNTY LAND DEVELOPMENT REGULATIONS.

THESE PLANS ARE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (A.D.A.) MANUAL, AT CURBS, GUTTERS, SIDEWALKS, INTERSECTIONS, ETC.

THESE PLANS ARE IN COMPLIANCE WITH THE FLORIDA ACCESSIBILITY CODE AT CURBS, GUTTERS, SIDEWALKS, INTERSECTIONS, ETC.

WATER MAINS AND HYDRANTS SHALL BE COMPLETED AND SERVICE PRIOR TO COMMENCING VERTICAL CONSTRUCTION ON ANY BUILDING OR BRINGING COMBUSTIBLE STOCK ON SITE.





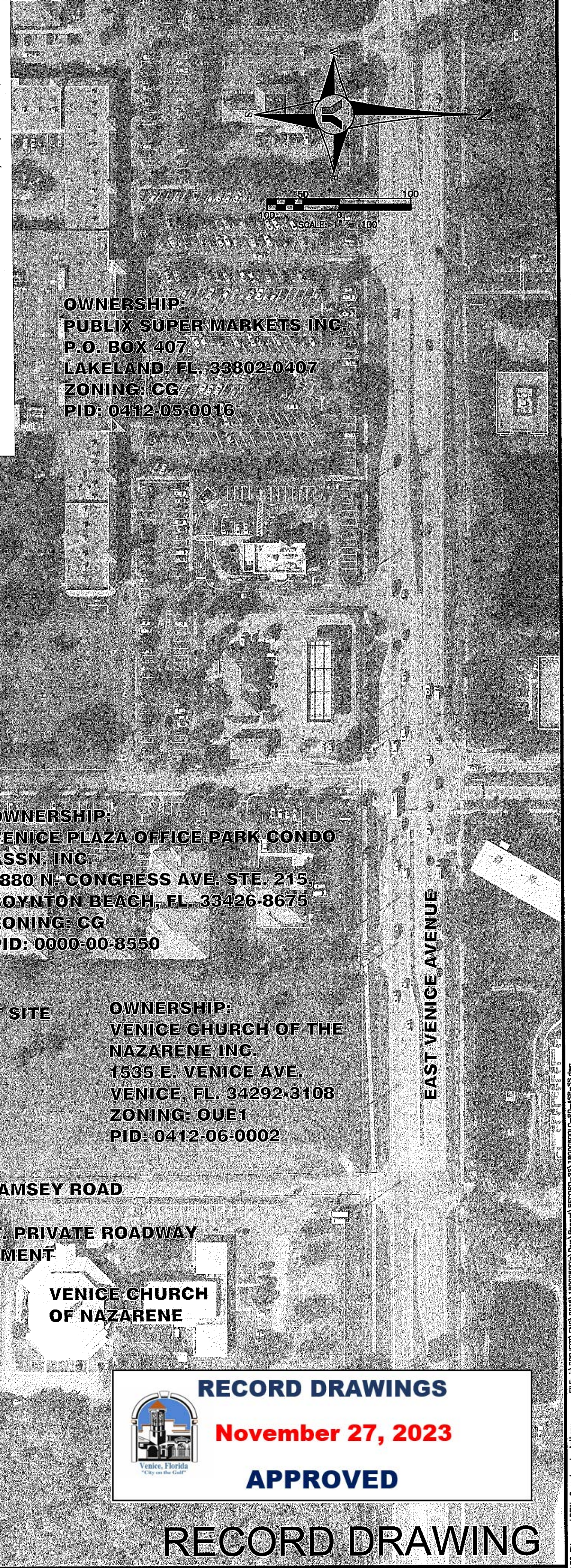
**DEVELOPMENT DATA:**  
 SITE AREA: 15.16 AC  
 PARCEL ID NUMBER:  
 0412-14-0004 EXISTING ZONING: PUD (PLANNED UNIT DEVELOPMENT) EXISTING USE: RESIDENTIAL VACANT  
 0412-11-0005 EXISTING ZONING: PUD (PLANNED UNIT DEVELOPMENT) EXISTING USE: RESIDENTIAL VACANT  
 0412-11-0006 EXISTING ZONING: PUD (PLANNED UNIT DEVELOPMENT) EXISTING USE: RESIDENTIAL VACANT  
 ADJACENT ZONING:  
 NORTH: CG / VG  
 SOUTH: PUD  
 EAST: OUE AND RMF2 / VG  
 WEST: PUD  
 LAND USE DATA:  
 DENSITY:  
 ALLOWED: 4.5 DU/AC (UNLESS APPROVED OTHERWISE)  
 PROPOSED: 7.7 DU/AC  
 CONSERVATION OPEN SPACE:  
 REQUIRED: 10%  
 PROPOSED: 13%  
 FUNCTIONAL OPEN SPACE:  
 REQUIRED: 10%  
 PROPOSED: 47%

**SITE DATA**  
 MULTI-FAMILY DWELLING UNITS:  
 16 UNIT BUILDINGS: 6 6 X 16 = 96  
 20 UNIT BUILDINGS: 1 1 X 20 = 20  
 TOTAL DWELLING UNITS: 116  
 SITE COVERAGE:  
 BUILDINGS: 1.67 AC (11.0%)  
 GARAGES & FACILITIES: 0.23 AC (1.5%)  
 PAVEMENT / SIDEWALK: 4.17 AC (27.5%)  
 LAKES: 3.15 AC (20.8%)  
 PERVIOUS: 5.94 AC (39.2%)  
 TOTAL: 15.16 AC (100.0%)  
 MAXIMUM BUILDING HEIGHT = 35'  
 PARKING CALCULATIONS:  
 REQUIRED PARKING:  
 MULTI-FAMILY DWELLING UNITS:  
 2 PARKING SPACES PER DWELLING UNIT  
 116 UNITS X 2 = 232 PARKING SPACES AND 3 LOADING AREAS  
 AMENITY CENTER:  
 COMMUNITY CENTER (1/200): 751 SF / 200 = 4  
 RENTAL OFFICE (1/300): 513 SF / 300 = 2  
 GYM (1/200): 354 SF / 200 = 2  
 TOTAL = 8 PARKING SPACES  
 PROVIDED PARKING:  
 MULTI-FAMILY DWELLING UNITS:  
 236 SPACES (INCLUDING GARAGE PARKING AND HC PARKING SPACES)  
 AMENITY BUILDING:  
 11 SPACES (INCLUDING 1 HC SPACE)  
 TOTAL OFF STREET PARKING PROVIDED = 247 PARKING SPACES  
 TOTAL OFF STREET LOADING PROVIDED = 7 SPACES

**REQUIRED YARDS:**  
 STREET: 20'  
 SIDE: 15'  
 REAR: 15'

**PERIMETER SETBACK REQUIREMENTS:**  
 NO STRUCTURE SHALL BE LOCATED CLOSER TO ANY PERIMETER PROPERTY LINE THAN TWO TIMES THE HEIGHT OF SUCH STRUCTURE.  
 PROPOSED-MODIFICATIONS TO PERIMETER SETBACKS:  
 TO NORTH PROPERTY LINE:  
 GARAGE = 25'  
 TO EAST PROPERTY LINE:  
 GARAGE = 25'  
 TO WEST PROPERTY LINE:  
 RESIDENTIAL BUILDING = 54'  
 GARAGE = 25'

**NOTE:**  
 LANDSCAPING TO COMPLY WITH CHAPTER 86, ARTICLE VI, DIVISION 5-LANDSCAPING REQUIREMENTS



**PROPOSED 4 INCH SANITARY SEWER FORCE MAIN**  
 OWNERSHIP:  
 LEX PELICAN LP  
 C/O LEXINGTON REALTY ADVISORS  
 1 PENN PLZ. STE. 4015  
 NEW YORK, NY, 10119-4015  
 ZONING: PUD  
 PID: 0425-15-0020

**OWNERSHIP:**  
 1000 ASTON GARDENS DR. LLC  
 C/O WELLTOWER INC.  
 4500 DORR ST.  
 TOLEDO, OH, 43615  
 ZONING: PUD  
 PID: 0412-13-0002

**PROPOSED 4 INCH SANITARY FORCE MAIN CONNECTION POINT TO EXISTING SANITARY SEWER MANHOLE**

PID: 0412-14-0004

PID: 0412-11-0005

PID: 0412-11-0006

**OWNERSHIP:**  
 VENICE PLAZA OFFICE PARK CONDO ASSN. INC.  
 1880 N. CONGRESS AVE. STE. 215  
 BOYNTON BEACH, FL. 33426-8675  
 ZONING: CG  
 PID: 0000-00-8550

**OWNERSHIP:**  
 VENICE CHURCH OF THE NAZARENE INC.  
 1535 E. VENICE AVE.  
 VENICE, FL. 34292-3108  
 ZONING: OUE1  
 PID: 0412-06-0002

**OWNERSHIP:**  
 BAILEY JOHN N III  
 209 BAILEY RD.  
 VENICE, FL. 34292-3005  
 ZONING: OUE  
 PID: 0412-14-0002

**OWNERSHIP:**  
 EVETT EDWARD (TTEE)  
 507 RAMSEY RD.  
 VENICE, FL. 34292-3043  
 ZONING: PUD  
 PID: 0412-14-0003

**OWNERSHIP:**  
 HUNT DARIN J  
 HUNT LAUREN R  
 464 RAMSEY RD.  
 VENICE, FL. 34292-3051  
 ZONING: OUE  
 PID: 0412-11-0003

**OWNERSHIP:**  
 VENICE CHURCH OF THE NAZARENE INC.  
 1535 E. VENICE AVE.  
 VENICE, FL. 34292-3108  
 ZONING: OUE1  
 PID: 0412-06-0002

**VENICE CHURCH OF NAZARENE**

**NOTE:**  
 THIS CERTIFICATION IS FOR THE SANITARY SEWER ONLY.

**RECORD DRAWINGS**  
 November 27, 2023  
**APPROVED**

**RECORD DRAWING**

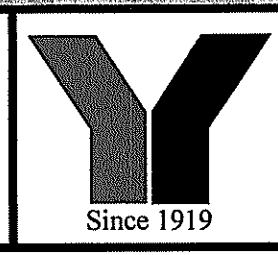
**WATERFRONT ON HATCHETT CREEK**  
 AERIAL SITE PLAN

SECTION 9, TOWNSHIP 39S., RANGE 19E.

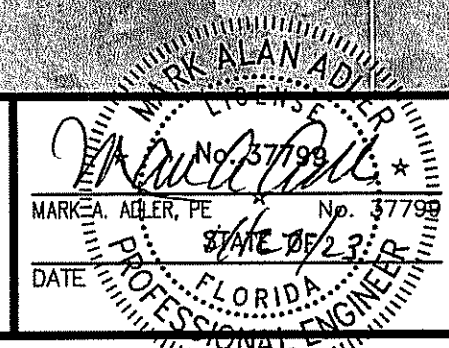
JOB NO.  
 18000600LC  
 SHEET NO.  
**C1**

NO.	BY	DATE	DESCRIPTION	NO.	BY	DATE	DESCRIPTION
DESIGN	NICKOLS	12/07/18					
DRAWN	NICKOLS	12/10/18					
CHECKED	RISMAN						
QUALITY CHK							
SCALE							

PREPARED FOR:  
**HATCHETT CREEK ASSOCIATES, LLC**  
 101 EAST MAIN STREET, SUITE 500  
 MT. HOREB, WISCONSIN 53572  
 (608) 437-8301



**George F. Young, Inc.**  
 10540 PORTAL CROSSING, SUITE 105 LAKEWOOD RANCH, FLORIDA 34211-4913  
 PHONE (941) 747-2881 FAX (941) 747-7234 WWW.GEORGEYOUNG.COM  
 ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21  
 CIVIL & TRANSPORTATION ENGINEERING | ECOLOGY | GIS | LANDSCAPE ARCHITECTURE  
 PLANNING | SURVEYING | SUBSURFACE UTILITY ENGINEERING  
 GAINESVILLE • LAKEWOOD RANCH • ORLANDO • ST. PETERSBURG • TAMPA



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**GENERAL NOTES:**

- SEE LANDSCAPE PLANS FOR LIMITS OF SODDING AND SEEDING TURFED AREAS AND LANDSCAPING REQUIREMENTS.
- CONSTRUCTION EQUIPMENT IS TO BE PLACED ON THE CONSTRUCTION SITE (PRIVATE PROPERTY) ONLY. NO STREET IS TO BE UTILIZED DURING CONSTRUCTION BY STORING MATERIAL OR EQUIPMENT (UNLESS OTHERWISE PERMITTED BY THE COUNTY ENGINEER).
- ALL SURVEY MARKERS (BOTH VERTICAL AND HORIZONTAL) WITHIN THE GENERAL VICINITY, SHALL BE CONTINUOUSLY PROTECTED. ANY MARKERS DISTURBED OR DAMAGED SHALL BE REPLACED BY A PROFESSIONAL SURVEYOR MAPPER AND CERTIFIED TO THE COUNTY ENGINEER PRIOR TO RELEASE OF PROJECT CERTIFICATE OF OCCUPANCY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING BOTH DRIVEWAY AND RIGHT OF WAY USE CONSTRUCTION PERMITS FROM THE CITY OF VENICE ENGINEERING DEPARTMENT PRIOR TO ANY CONSTRUCTION WITHIN THE RIGHT OF WAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL CONSTRUCTION RELATED SILTATION AND EROSION WHICH MAY OCCUR.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- THE GENERAL CONTRACTOR SHALL COORDINATE UTILITY CONNECTIONS WITH THE APPROPRIATE AUTHORITIES PRIOR TO MAKING CONNECTIONS. PROVISION SHALL BE MADE FOR CONTINUATION OF SERVICE TO ALL PARTIES WITHOUT INTERRUPTION.
- ALL PROPOSED ELEVATIONS AT GRASS AREAS ARE FINISHED ELEVATIONS AFTER SOD IS PLACED.
- ALL CONSTRUCTION ONSITE & WITHIN THE RIGHT-OF-WAY AND EASEMENTS SHALL CONFORM TO THE METHODS, STANDARDS AND SPECIFICATIONS OF CITY OF VENICE AND ALL APPLICABLE AGENCIES.
- CONTRACTOR TO OBTAIN UTILITIES CONSTRUCTION PERMITS FROM CITY OF VENICE UTILITIES DEPARTMENT AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR TO NOTIFY ALL UTILITIES FORTY-EIGHT (48) HOURS PRIOR TO DEMOLITION AND/OR EXCAVATION, INCLUDING THE LOCAL GAS COMPANY IN ACCORDANCE WITH F.S. 553.851 CALL SUNSHINE STATE ONE CALL SYSTEM\* 1-800-432-4770 SO THAT UNDERGROUND UTILITIES MAY BE FIELD LOCATED.
- CONTRACTOR TO VERIFY AND COORDINATE WITH FLORIDA POWER AND LIGHT, VERIZON, COMCAST CABLE, TECO/PEOPLES GAS, ETC. FOR THE REMOVAL OR RELOCATION OF ANY OF THESE FACILITIES.
- ALL DISTURBED AREAS WITHIN PUBLIC RIGHT-OF-WAY TO BE RESTORED TO ORIGINAL STATE OR BETTER.
- CONTRACTOR TO CLEAR, GRUB AND REMOVE ALL DEBRIS ON SITE AND ALL AREAS OF THE RIGHT-OF-WAY AS NECESSARY TO COMPLETE WORK.
- ALL CONSTRUCTION MUST CONFORM TO THE MINIMUM STANDARDS SET FORTH IN THE CITY OF VENICE ZONING REGULATIONS.
- CONTRACTOR TO VERIFY ALL PLAN DIMENSIONS AND SITE CONDITIONS, NOTIFY CITY OF VENICE REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN DRAWINGS PRIOR TO COMMENCING WORK.
- DISPOSE OF ALL UNSUITABLE MATERIALS OFF-SITE. EQUIPMENT TO BE DISPOSED OF OR MOVED IN ACCORDANCE WITH INSTRUCTIONS OF COMPANY REPRESENTATIVE.
- ALL MATERIAL EXCAVATED THAT IS SUITABLE FOR FILL UNDER PAVING, OR LANDSCAPING AREA, IS TO BE SPREAD AND COMPACTED IN LOCATIONS DESIGNATED BY THE ENGINEER OR OTHER AUTHORIZED REPRESENTATIVE OF THE OWNER.
- WHEN ALL EXCAVATION AND DEMOLITION IS COMPLETE, CLEAN FILL SHALL BE SPREAD AND COMPACTED IN LIFTS DESIGNATED BY THE TESTING LABORATORY TO THE REQUIRED ELEVATION AS SHOWN.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH ALL LAWS, ORDINANCES, AND CODES BY GOVERNMENTAL AUTHORITIES AND SHALL UTILIZE GOOD CONSTRUCTION PRACTICE.
- CONTRACTOR SHALL INSTALL ALL MATERIALS AND EQUIPMENT IN STRICT COMPLIANCE WITH MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS. CONTRACTOR TO PROVIDE OWNER COPIES OF ALL GUARANTEES AND WARRANTIES ON COMPLETION OF WORK.
- SITE LIGHTING IS PROPOSED. SEE M.E.P DRAWINGS.
- ALL TACTILE SURFACES ON CURB CUT RAMPS SHALL CONFORM TO FDOT INDEX NO. 304.
- ALL TRAFFIC SIGN POSTS WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE 2" X 2" SQUARE BREAK-AWAY 14 GAUGE GALVANIZED STEEL WITH PUNCHED HOLES IN ACCORDANCE WITH APPENDIX C3 OF THE LDR. THE TAPCO V-LOC V51P-350 SYSTEM SHALL BE EMPLOYED WHERE SIGN POSTS ARE INSTALLED IN PAVED AREAS.
- ALL TRAFFIC CONTROL SIGNS WITHIN THE RIGHT-OF-WAY SHALL BE PER SECTION 700 OF THE FDOT SPECIFICATIONS IN ADDITION TO CITY OF VENICE SUPPLEMENTAL SPECIFICATION SS700. ALL SIGNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MUTCD CRITERIA FOR SIGN SIZE AND SHAPE AND LETTERING DIMENSIONS
- ALL DRAINAGE CULVERT JOINTS SHALL BE WRAPPED PER FDOT INDEX NO 280.
- ALL CONCRETE ROADWAY AND DRAINAGE RELATED STRUCTURES SHALL BE 3,000 PSI.
- A MINIMUM OF 32" OF SOD SHALL BE PLACED AT THE BACK OF ALL CURBS AND PAVEMENT EDGES, SWALES, AND DETENTION AREAS EXCEPT LANDSCAPE AREAS. ALL BERMS SHALL BE SODDED. SOD SHALL BE USED FOR THE AREA BETWEEN THE BACK OF ROADWAY CURB AND SIDEWALK, THIS WIDTH SHALL BE 36".
- ALL USE OF PAVER BLOCKS EITHER IN TRAVELWAYS OR WALKWAYS SHALL CONFORM TO FDOT SPECIFICATION #526.
- ALL PAVEMENT MARKINGS AND STRIPING - WITH THE EXCEPTION OF STANDARD PARKING STALL LINES - SHALL BE THERMOPLAST IN COMPLIANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 711, LATEST EDITION.
- STORMWATER MANAGEMENT SWALES AND APPURTENANCES THERETO SHALL BE OWNED AND MAINTAINED BY THE OWNER OF THE CONTRIBUTING DRAINAGE SYSTEM. THE STORMWATER MANAGEMENT POND AND APPURTENANCES WILL ALSO BE PERMITTED BY SWFWMD.
- PLANT NO TREES AND/OR HEDGES IN DRAINAGE SWALES OR IN THE FILTRATION AREAS OF ATTENUATION BASINS THAT MAY CREATE A NEGATIVE EFFECT ON THE ATTENUATION FACILITY, (I.E. BLOCKING FLOW OR CLOGGING INFILTRATION SYSTEMS).
- UNUSED WATER AND SEWER SERVICES SERVING THE SITE WILL BE CAPPED AT THE MAIN BY THE CONTRACTOR.
- EXISTING CONDITIONS AND PROPERTY BOUNDARY SHOWN IS TAKEN FROM BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY GEORGE F. YOUNG, INC.
- THE PROPOSED IRRIGATION WATER DEMAND WILL BE DETERMINED AT THE TIME OF IRRIGATION DESIGN BY THE IRRIGATION ENGINEER.
- ALL THE BUILDING ROOF DRAIN RUNOFF SHALL BE COLLECTED AND CONVEYED TO THE STORMWATER SWALES AS REQUIRED AND DISCHARGE THRU CONTROLLED OUTFALL SYSTEM.
- ALL NEW PAVEMENT TO MATCH ALL REMAINING UNDISTURBED PAVEMENT AND WALKWAYS. MATCH EXISTING PAVEMENT BY SAW CUTTING AND APPLICATION OF PRIME AND TACK COATS.
- REPLACEMENT OF SIDEWALKS, CURB AND GUTTER SHALL ONLY LAG ITS REMOVAL BY A MAXIMUM OF TWO (2) WEEKS, UNLESS OTHERWISE AUTHORIZED BY CITY OF VENICE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL CONSTRUCTION RELATED SILTATION AND EROSION WHICH MAY OCCUR.
- THE DEMOLITION/REMOVAL OF EXISTING STRUCTURES AND AMENITIES REQUIRES A PERMIT WHICH IS TO BE ISSUED BY CITY OF VENICE AND APPLIED FOR BY THE GENERAL CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- IF ANY WELLS ARE DISCOVERED ON SITE THEY MUST BE PLUGGED BY A FLORIDA LICENSED WELL DRILLING CONTRACTOR IN AN APPROVED MANNER PRIOR TO EARTHMOVING AND CONSTRUCTION.
- IF ANY WELLS ARE DISCOVERED DURING EARTH MOVING OR EXCAVATION THEY SHALL BE REPORTED TO THE CITY OF VENICE HEALTH DEPARTMENT, ENVIRONMENTAL HEALTH WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
- IF EVIDENCE OF THE EXISTENCE OF CULTURAL RESOURCES IS DISCOVERED OR OBSERVED AT DEVELOPMENT SITES OR DURING DEVELOPMENT ACTIVITIES AFTER FINAL APPROVAL, ALL WORK SHALL CEASE IN THE AREA OF EFFECT AS DETERMINED BY THE DIRECTOR. THE DEVELOPER, OWNER, CONTRACTOR, OR AGENT THERE OF SHALL NOTIFY THE DIRECTOR OF HISTORICAL RESOURCES WITHIN TWO WORKING DAYS. EXAMPLES OF SUCH EVIDENCE OF HISTORIC RESOURCES INCLUDE WHOLE OR FRAGMENTARY STONE TOOLS, SHELL TOOLS, ABORIGINAL OR HISTORIC POTTERY, HISTORIC GLASS, HISTORIC BOTTLES, BONE TOOLS, HISTORIC BUILDING FOUNDATIONS, SHELL MOUNDS, SHELL MIDDENS, OR SAND MOUNDS. THE DIRECTOR SHALL ASSESS THE SIGNIFICANCE OF THE FINDS WITHIN THREE WORKING DAYS OF NOTIFICATION AND MITIGATE ANY ADVERSE EFFECTS SO AS TO MINIMIZE DELAYS TO DEVELOPMENT ACTIVITIES.

**GENERAL NOTES CONTINUED:**

- IF ANY HUMAN SKELETAL REMAINS OR ASSOCIATED BURIAL ARTIFACTS ARE DISCOVERED AT DEVELOPMENT SITES OR DURING DEVELOPMENT ACTIVITY, ALL WORK IN THAT PARTICULAR AREA MUST CEASE, AND THE PERMITTEE MUST IMMEDIATELY NOTIFY THE NEAREST LAW ENFORCEMENT OFFICE AND NOTIFY THE DIRECTOR OF HISTORICAL RESOURCES WITHIN TWO WORKING DAYS. ACCORDING TO CHAPTER 872, FLORIDA STATUTES, IT IS UNLAWFUL TO DISTURB, VANDALIZE OR DAMAGE A HUMAN BURIAL.
- ALL STREET STOP SIGNS WILL BE MANUFACTURED USING DIAMOND GRADE REFLECTIVE SHEETING (OR EQUIVALENT). ALL OTHER TRAFFIC/STREET SIGNS SHALL BE MANUFACTURED USING (MINIMUM) HIGH INTENSITY REFLECTIVE SHEETING. TRAFFIC SIGN POSTS AND STREET NAME SIGNS SHALL BE INSTALLED CONSISTENT WITH CITY OF VENICE STANDARDS AND SPECIFICATIONS. THE POLETEC 4 SYSTEM (OR AN EQUIVALENT) SHALL BE EMPLOYED WHERE SIGN POSTS ARE INSTALLED IN PAVED AREAS.
- AS SCALED FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) NUMBER 1215C0391F, EFFECTIVE DATE OF NOVEMBER 04, 2016. ALL FINISH FLOORS SHALL BE A MINIMUM OF 12" ABOVE THE BASE FLOOD ELEVATION AS SHOWN. PLEASE CONTACT THE LOCAL BUILDING DEPARTMENT FOR VERIFICATION OF FINISHED FLOOR ELEVATION BEFORE ANY DESIGN OR CONSTRUCTION BEGINS.
- PROPOSED FINISHED FLOOR ELEVATIONS SHALL BE AS SHOWN ON THE GRADING PLANS.
- THE FOLLOWING PERTAINS TO SEDIMENT AND EROSION CONTROL/BEST MANAGEMENT PRACTICES (BMP'S) AND SHALL BE ADHERED TO ACCORDINGLY. SAID MEASURES AND PRACTICES SHALL BE IMPLEMENTED DURING CONSTRUCTION BY THE CONTRACTOR. SITE SPECIFIC MEASURES SHALL PREVENT SEDIMENT AND OTHER DELETERIOUS SUBSTANCES FROM ENTERING UTILITY AND STORMWATER DRAINAGE SYSTEMS INCLUDING BUT NOT LIMITED TO DITCHES, WATER BODIES, WETLANDS, AND ADJACENT PROPERTIES. THE EFFECTIVENESS OF THE BMP'S SHALL BE CHECKED DAILY DURING CONSTRUCTION BY THE CONTRACTOR. METHODS USED SHALL INCLUDE BUT NOT BE LIMITED TO SODDING OF DETENTION AREAS AND SWALES IMMEDIATELY UPON THEIR COMPLETION, SILT FENCE, AND HAY BALES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SILTATION ENTERING THE STORM WATER MANAGEMENT SYSTEM AND/OR ANY ON-SITE OR OFF-SITE DRAINAGE AREAS.
- ALL FACILITIES CONTAINED HEREIN HAVE BEEN DESIGNED FOR HANDICAP ACCESSIBILITY IN ACCORDANCE WITH BOTH THE FLORIDA ACCESSIBILITY CODE 1997 EDITION AND THE AMERICAN WITH DISABILITY ACT STANDARDS.
- FDEP PERMITS WILL BE REQUIRED FOR THE WATER AND SEWER EXTENSIONS.
- IN THE EVENT CONSTRUCTION IS HALTED FOR ANY REASON AND CONTRACTOR IS TO ABANDON SITE PRIOR TO COMPLETION OF CONSTRUCTION, ALL CONSTRUCTION AND STOCKPILED VEGETATIVE DEBRIS AND FILL WILL BE REMOVED BY THE CONTRACTOR FROM THE SITE PRIOR TO SITE ABANDONMENT.
- A SEPARATE BUILDING PERMIT MUST BE APPLIED FOR AND ISSUED FOR EVERY SIGN, WALL, RETAINING WALL SYSTEM, MASONRY OR ENGINEERED STYROFOAM PRIVACY WALLS, OUTDOOR LIGHTING AND STRUCTURE ON THE SITE. THE APPROVAL OF THESE CONSTRUCTION PLANS DOES NOT EXEMPT THE CONTRACTOR FROM OBTAINING THE NECESSARY BUILDING PERMITS.
- A SEPARATE CITY OF VENICE RIGHT-OF-WAY USE PERMIT FOR OFF-SITE FORCE MAIN MUST BE APPLIED FOR AND ISSUED PRIOR TO CONSTRUCTION. THE APPROVAL OF THESE CONSTRUCTION PLANS DOES NOT EXEMPT THE CONTRACTOR FROM OBTAINING THE NECESSARY BUILDING PERMITS.
- A SEPARATE CITY OF VENICE UTILITY CONSTRUCTION PERMIT FOR OFF-SITE WATER MAIN MUST BE APPLIED FOR AND ISSUED PRIOR TO CONSTRUCTION. THE APPROVAL OF THESE CONSTRUCTION PLANS DOES NOT EXEMPT THE CONTRACTOR FROM OBTAINING THE NECESSARY BUILDING PERMITS.
- A SEPARATE CITY OF VENICE TREE REMOVAL PERMIT FOR ANY TREE REMOVAL (IF ANY) DURING CONSTRUCTION MUST BE APPLIED FOR AND ISSUED PRIOR TO CONSTRUCTION. THE APPROVAL OF THESE CONSTRUCTION PLANS DOES NOT EXEMPT THE CONTRACTOR FROM OBTAINING THE NECESSARY BUILDING PERMITS.
- MAINTENANCE OF TRAFFIC: IMPLEMENTATION OF TRAFFIC CONTROL PROCEDURES SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION). SPECIFIC STANDARDS ARE OUTLINED IN INDEX 600 SERIES. PROCEDURES SHALL ALSO BE IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION, THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (LATEST EDITION), APPLICABLE F.D.O.T. SUPPLEMENTAL SPECIFICATIONS.
- BEFORE COMPLETION CERTIFICATION BY THE CITY OF VENICE STORMWATER, A MAINTENANCE AGREEMENT, ACCEPTABLE TO THE CITY OF VENICE BY ENTITY RESPONSIBLE FOR OPERATING AND MAINTAINING THE STORMWATER MANAGEMENT SYSTEM, MUST BE FURNISHED TO LAND DEVELOPMENT SERVICES.

**ENVIRONMENTAL PROTECTION DIVISION NOTES:**

- IMPACTS TO STATE AND FEDERALLY PROTECTED SPECIES AS LISTED IN THE MOST CURRENT VERSION OF "FLORIDA'S ENDANGERED SPECIES, THREATENED SPECIES AND SPECIES OF SPECIAL CONCERN" OFFICIAL LISTS\* PREPARED BY THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) ARE NOT AUTHORIZED BY THIS PERMIT. THESE SPECIES MAY INCLUDE, BUT ARE NOT LIMITED TO, FLORIDA SCRUB JAY, AMERICAN BALD EAGLE, SHERMAN'S FOX SQUIRREL, BURROWING OWL, GOPHER TORTOISE, GOPHER FROG, AND EASTERN INDIGO SNAKE. PROTECTION EXTENDS TO THE NESTS, BURROWS AND HABITAT UTILIZED BY THESE SPECIES. IF A LISTED SPECIES (OR ITS EVIDENCE, SUCH AS BURROWS, NESTS, SCAT, TRACKS) THAT WAS NOT ADDRESSED IN THIS PERMIT IS OBSERVED PRIOR TO OR DURING CONSTRUCTION, ALL CLEARING AND EARTHMOVING ON-SITE SHALL CEASE. THE PERMITTEE SHALL CONSULT WITH THE FWC REGIONAL OFFICE AND/OR THE U.S. FISH AND WILDLIFE SERVICE REGIONAL OFFICE REGARDING NECESSARY PROTECTION MEASURES AND PROVIDE EVIDENCE OF SUCH CONSULTATION TO RESOURCE PROTECTION SERVICES PRIOR TO RESUMING WORK.
- IF ANY TYPE A FILL (CLEAN EARTHEN MATERIAL) IS TO BE HAULED OFF-SITE, AN EARTHMOVING PERMIT OR LETTER OF EXEMPTION IS REQUIRED FROM RESOURCE PROTECTION SERVICES. IF ANY TYPE A FILL HAULED OFF-SITE IS TO BE STOCKPILED OR FILLED UPON PRIVATE PROPERTIES WITHIN THE CITY OF VENICE, THE RECEIVING PROPERTY(S) SHALL POSSESS AUTHORIZATION IN THE FORM OF AN EARTHMOVING PERMIT, A WRITTEN EARTHMOVING EXEMPTION, A BUILDING PERMIT, OR CONSTRUCTION PLAN APPROVAL PRIOR TO RECEIVING SAID FILL. NO TYPE B (CONCRETE, BROKEN ASPHALT, ROCKS), TYPE C (VEGETATIVE LAND CLEARING DEBRIS), OR TYPE D (GARBAGE, REFUSE, WOOD, METAL, PLASTIC, ETC.) FILL MAY BE BURIED WITHIN OR OUTSIDE APPROVED CONSTRUCTION LIMITS. TYPE D FILL MUST BE DISPOSED AT AN APPROVED LANDFILL OR RECYCLING FACILITY. TYPE B, C, AND D FILLS GENERATED ON-SITE SHALL NOT BE STOCKPILED ON-SITE FOR GREATER THAN SIX MONTHS. TYPE B, C, AND D FILLS SHALL NOT BE HAULED TO THE SITE FROM OFF-SITE SOURCES. FOR INFORMATION ABOUT EARTHMOVING PERMITS OR EXEMPTIONS, CONTACT CITY OF VENICE.

**SITE DATA NOTES:**

- BOUNDARY, TOPO AND TREE INFORMATION PROVIDED BY GEORGE F. YOUNG, INC.
- THERE ARE NO WETLANDS LOCATED ON THE SITE AS SHOWN ON SURVEY.
- PROPOSED COMMON IMPROVEMENTS (PRIVATE ROADWAY, SIDEWALKS, STORM WATER MANAGEMENT AND LANDSCAPE OPEN SPACE) TO BE MAINTAINED BY DEVELOPER.
- 5' MIN SIDEWALK TO BE PROVIDED ALONG ALL ROADWAY FRONTAGES AS SHOWN ON PLAN.
- ANY EXISTING OVERHEAD ELECTRIC WILL BE REMOVED.
- ANY EXISTING STRUCTURES AND DRIVEWAYS WILL BE DEMOLISHED.
- A PUBLIC UTILITY EASEMENT WILL BE PROVIDED FOR ON-SITE WATER MAIN, SANITARY GRAVITY SEWER AND SANITARY SEWER LIFT STATION.
- DOMESTIC WATER WILL BE PROVIDED BY THE CITY OF VENICE.
- SANITARY SEWER SERVICE WILL BE PROVIDED BY THE CITY OF VENICE.
- STORM WATER MANAGEMENT IS PROVIDED BY PROPOSED ON SITE STORM STRUCTURES AND POND SYSTEM.
- THE DEMOLITION / REMOVAL OF ANY EXISTING STRUCTURES AND AMENITIES REQUIRES A PERMIT WHICH IS TO BE ISSUED BY THE CITY OF VENICE AND APPLIED FOR BY THE GENERAL CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- ANY EXISTING SEPTIC TANKS AND DRAIN FIELDS WILL BE PROPERLY ABANDONED.
- THERE ARE NO KNOWN WELLS LOCATED ON THIS PROPERTY.

**CONSTRUCTION NOTES:**

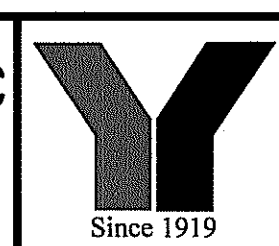
- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE FEDERAL, STATE, AND LOCAL AGENCY'S STANDARDS.
- CALL SUNSHINE STATE ONE CALL FOR ALL UTILITY LOCATES 48 HOURS PRIOR TO CONSTRUCTION AT 1-800-432-4770.
- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS, BUT DOES NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY DAMAGED ITEMS INCLUDING, BUT NOT LIMITED TO, DRIVEWAYS, IRRIGATION SYSTEMS, MAILBOXES, SIDEWALKS, STREET SIGNS, AND PRIVATE FENCES AS REQUIRED BY E.O.R./OTHER GOVERNING ENTITIES.
- THRUST BLOCKING, THE RODS AND RESTRAINING GLANDS SHALL BE PROVIDED; AS REQUIRED IN THE FIELD BY THE CITY OF VENICE GOVERNMENT ENVIRONMENTAL SERVICES, UTILITIES. ALL NEW WATER MAINS SHALL BE RESTRAINED BY RESTRAIN JOINTS PER THE CITY OF VENICE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS.
- MAINTENANCE OF TRAFFIC SIGNS AND OTHER TRAFFIC CONTROL DEVICES SHALL BE PROVIDED BY THE CONTRACTOR DURING CONSTRUCTION AS REQUIRED BY THE F.D.O.T. / S.D.O.T. ALL OPEN ROAD CUTS SHALL BE FILLED, COMPACTED AND COVERED WITH A TEMPORARY ASPHALT PATCH BEFORE DARK ON A DAILY BASIS DURING CONSTRUCTION. CONTRACTOR SHALL RESTORE ALL ROADWAY OPEN CUTS PER FDOT AND SARASOTA COUNTY UNIFIED DEVELOPMENT CODE METHODS, STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE ACCESS FOR TRAFFIC AT ALL TIMES DURING CONSTRUCTION. CONSTRUCTION SHALL BE CONDUCTED IN SUCH A MANNER THAT RESIDENTS RETAIN ACCESS TO THEIR DRIVEWAYS AT ALL TIMES.
- THE INFORMATION PROVIDED IN THESE PLANS IS TO SOLELY ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS SHALL BE BASED.
- DISRUPTIONS TO EXISTING RESIDENTIAL/COMMERCIAL WATER AND SEWER SERVICE SHALL BE KEPT TO A MINIMUM. ALL WATER SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH THE CITY OF VENICE UTILITIES DEPARTMENT, IN ACCORDANCE WITH THE CITY PROCEDURES FOR SHUT DOWNS. THE CITY REQUIRES A MINIMUM 72-HOUR NOTICE FOR ANY OUTAGE. THE CONTRACTOR IS RESPONSIBLE FOR DISTRIBUTING BOIL WATER NOTICES AND RESCIND NOTICES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT FPL / VERIZON / COMCAST FOR RESTRAINING OF POLES DURING CONSTRUCTION. ALL ASSOCIATED COSTS WILL BE AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE FOR REPLANTING VEGETATION IN AREAS INDICATED AS LIMITS OF CLEARING AND GRUBBING.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL CLEARED VEGETATION WITHIN FIVE (5) DAYS OF CLEARING AND GRUBBING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING WATER MAIN AND VALVE INDICATOR SIGNS IN LOCATIONS DESIGNATED ON CONSTRUCTION DRAWINGS. SEE SIGN DETAIL.
- WHEN THE WORD "ENGINEER" IS USED IN THE CONTRACT DOCUMENTS IT SHALL INDICATE THE PROFESSIONAL ENGINEER OF RECORD.
- AIR RELEASE VALVES AND BACTERIAL SAMPLE STATIONS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS PER THE DETAIL OR WHERE DIRECTED BY THE CONSTRUCTION ENGINEER.
- ELEVATIONS SHOWN ON THIS SURVEY ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) DESIGNATION - G 699 (NGS PID #DL2707), WHICH HAS A PUBLISHED ELEVATION OF 14.06 FEET. NORTH AMERICAN VERTICAL DATUM OF 1988. ELEVATION CONVERSION FROM NAVD88 TO NGVD29 = +1.125

NO.	BY	DATE	DESCRIPTION
1	PN	11/09/20	REVISE CONST. NOTE #11 PER COV REVIEW COMMENTS DATED 10/12/20
2	PN	04/21/21	REV. CONST. NOTE #8 PER COV TRAFFIC ENGINEERING COMMENT DATED 04/20/21

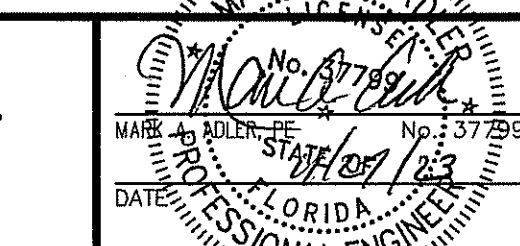
NO.	BY	DATE	DESCRIPTION

INITIALS	DATE
DESIGN	NICKOLS 12/07/18
DRAWN	NICKOLS 12/10/18
CHECKED	RISSMAN
QUALITY CHK	--
SCALE	--

PREPARED FOR:  
**HATCHETT CREEK ASSOCIATES, LLC**  
 101 EAST MAIN STREET, SUITE 500  
 MT. HOREB, WISCONSIN 53572  
 (608) 437-8301



**George F. Young, Inc.**  
 10540 PORTAL CROSSING, SUITE 105 LAKEWOOD RANCH, FLORIDA 34211-4913  
 PHONE (941) 747-2881 FAX (941) 747-7234 WWW.GEORGEYOUNG.COM  
 ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 23  
 CIVIL & TRANSPORTATION ENGINEERING/ECOLOGICAL/LANDSCAPE ARCHITECTURE  
 PLANNING/SURVEYING/SUBSURFACE UTILITY ENGINEERING  
 GAINESVILLE\*LAKEWOOD RANCH\*ORLANDO\*ST. PETERSBURG\*TAMPA



**WATERFRONT ON HATCHETT CREEK**  
 GENERAL NOTES  
 SECTION 9, TOWNSHIP 39 S., RANGE 19 E.

JOB NO. 18000600LC  
 SHEET NO. C2



**RECORD DRAWING**



**UTILITY NOTES:**

- 1). ONSITE DOMESTIC WATER SYSTEM, WASTE WATER SYSTEM AND SANITARY SEWER LIFT STATION WILL BE PUBLICLY OWNED AND MAINTAINED.
- 2). ONSITE UTILITY EASEMENTS FOR PUBLICLY OWNED UTILITIES WILL BE PROVIDED.
- 3). ALL PUBLICLY OWNED UTILITIES AND UTILITY EASEMENTS WILL BE CONSTRUCTED PER CITY OF VENICE STANDARDS AND SPECIFICATIONS.

**LEGEND**

- EXIST. OVERHEAD UTILITY LINES
- EXIST. CHAINED LINK FENCE
- EXIST. WOOD/BOARD FENCE
- EXIST. BARBED WIRE FENCE
- EXIST. GRATE INLET
- EXIST. GUY DOWN GUY ANCHOR
- EXIST. POWER POLE
- EXIST. MITERED END SECTION
- EXIST. MANHOLE DRAINAGE
- EXIST. MANHOLE GAS
- EXIST. SIGN
- PROJECT BOUNDARY
- PROPOSED STORM DRAINAGE
- PROPOSED STORM INLET
- PROPOSED STORM MANHOLE
- PROPOSED ENDWALL
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
- PROPOSED FORCE MAIN
- PROPOSED FIRE LINE
- PROPOSED DOMESTIC WATER
- PROPOSED FIRE HYDRANT
- PROPOSED BLOWOFF
- PROPOSED GATE VALVE
- PROPOSED METER
- PROPOSED POST INDICATOR VALVE (PIV)
- PROPOSED BACK FLOW PREVENTOR (BFP)
- PROPOSED FIRE DEPARTMENT CONNECTION (FDC)
- PUBLIC UTILITY EASEMENTS
- PROPOSED CONCRETE
- PROPOSED SHELL
- PROPOSED PAVEMENT OPEN CUT
- PROPOSED DIRECTIONAL DRILL
- PROPOSED PERVIOUS EMERGENCY ACCESS

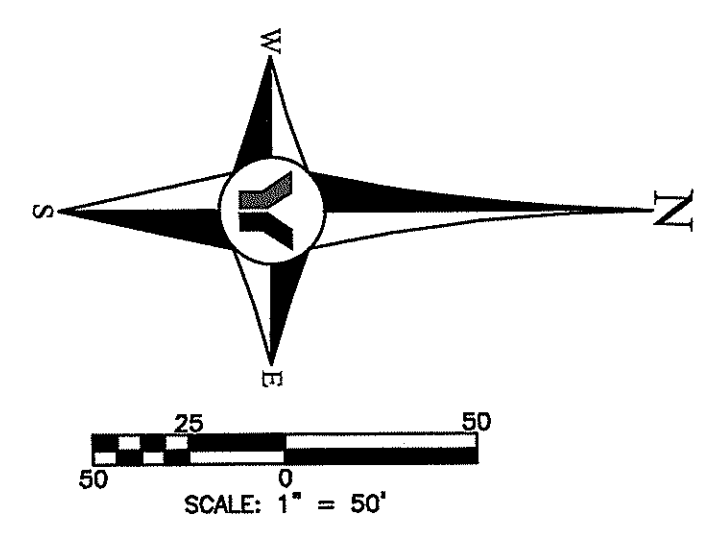
SEE SURVEY FOR ADDITIONAL DELINEATION OF EXISTING FEATURE SYMBOLS AND ABBREVIATIONS

**PIPE MATERIALS:**

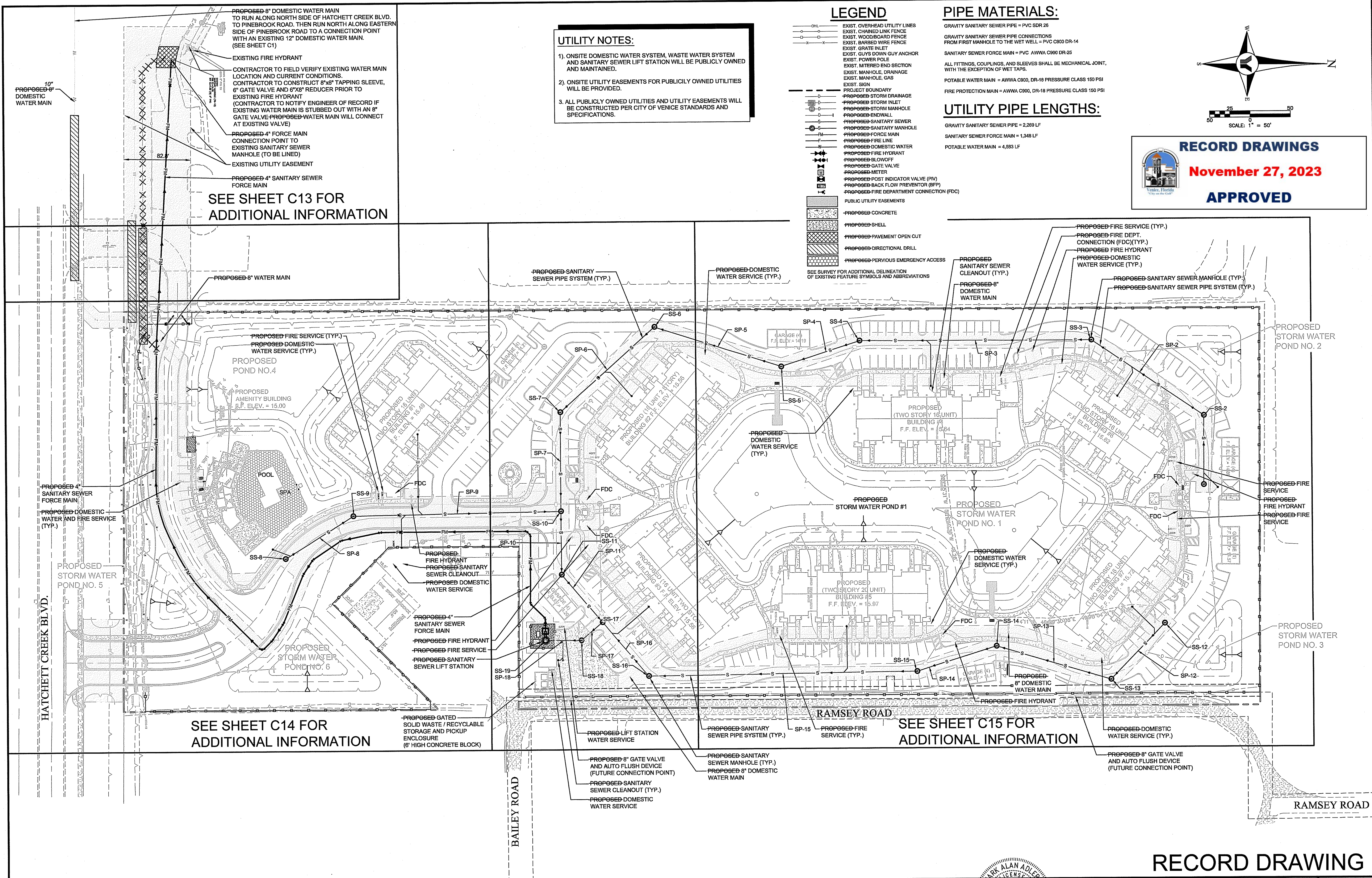
GRAVITY SANITARY SEWER PIPE = PVC SDR 26  
 GRAVITY SANITARY SEWER PIPE CONNECTIONS FROM FIRST MANHOLE TO THE WET WELL = PVC C900 DR-14  
 SANITARY SEWER FORCE MAIN = PVC AWWA C900 DR-25  
 ALL FITTINGS, COUPLINGS, AND SLEEVES SHALL BE MECHANICAL JOINT, WITH THE EXCEPTION OF WET TAPS.  
 POTABLE WATER MAIN = AWWA C900, DR-18 PRESSURE CLASS 150 PSI  
 FIRE PROTECTION MAIN = AWWA C900, DR-18 PRESSURE CLASS 150 PSI

**UTILITY PIPE LENGTHS:**

GRAVITY SANITARY SEWER PIPE = 2,269 LF  
 SANITARY SEWER FORCE MAIN = 1,348 LF  
 POTABLE WATER MAIN = 4,583 LF



**RECORD DRAWINGS**  
**November 27, 2023**  
**APPROVED**



SEE SHEET C13 FOR ADDITIONAL INFORMATION

SEE SHEET C14 FOR ADDITIONAL INFORMATION

SEE SHEET C15 FOR ADDITIONAL INFORMATION

NO.	BY	DATE	DESCRIPTION	NO.	BY	DATE	DESCRIPTION
DESIGN	NICKOLS	12/07/18		PREPARED FOR:	HATCHETT CREEK ASSOCIATES, LLC 101 EAST MAIN STREET, SUITE 500 MT. HOREB, WISCONSIN 53572 (608) 437-8301		
DRWN	NICKOLS	12/10/18		ENGINEER:	George F. Young, Inc. 10540 PORTAL CROSSING, SUITE 105 LAKEWOOD RANCH, FLORIDA 34211-4913 PHONE (941) 747-2881 FAX (941) 747-7234 WWW.GEORGEYOUNG.COM ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21 CIVIL & TRANSPORTATION ENGINEERING   ECOLOGY   GIS   LANDSCAPE ARCHITECTURE PLANNING   SURVEYING   SUBSURFACE UTILITY ENGINEERING GAINESVILLE • LAKEWOOD RANCH • ORLANDO • ST. PETERSBURG • TAMPA		
CHECKED	RISSMAN			PROFESSIONAL ENGINEER			
QUALITY CHK				<p><b>RECORD DRAWING</b>  <b>WATERFRONT ON HATCHETT CREEK</b>  <b>MASTER UTILITY PLAN</b>          SECTION 9, TOWNSHIP 39 S., RANGE 19 E.</p>			
SCALE				<p>JOB NO. 18000600LC          SHEET NO. <b>C12</b></p>			

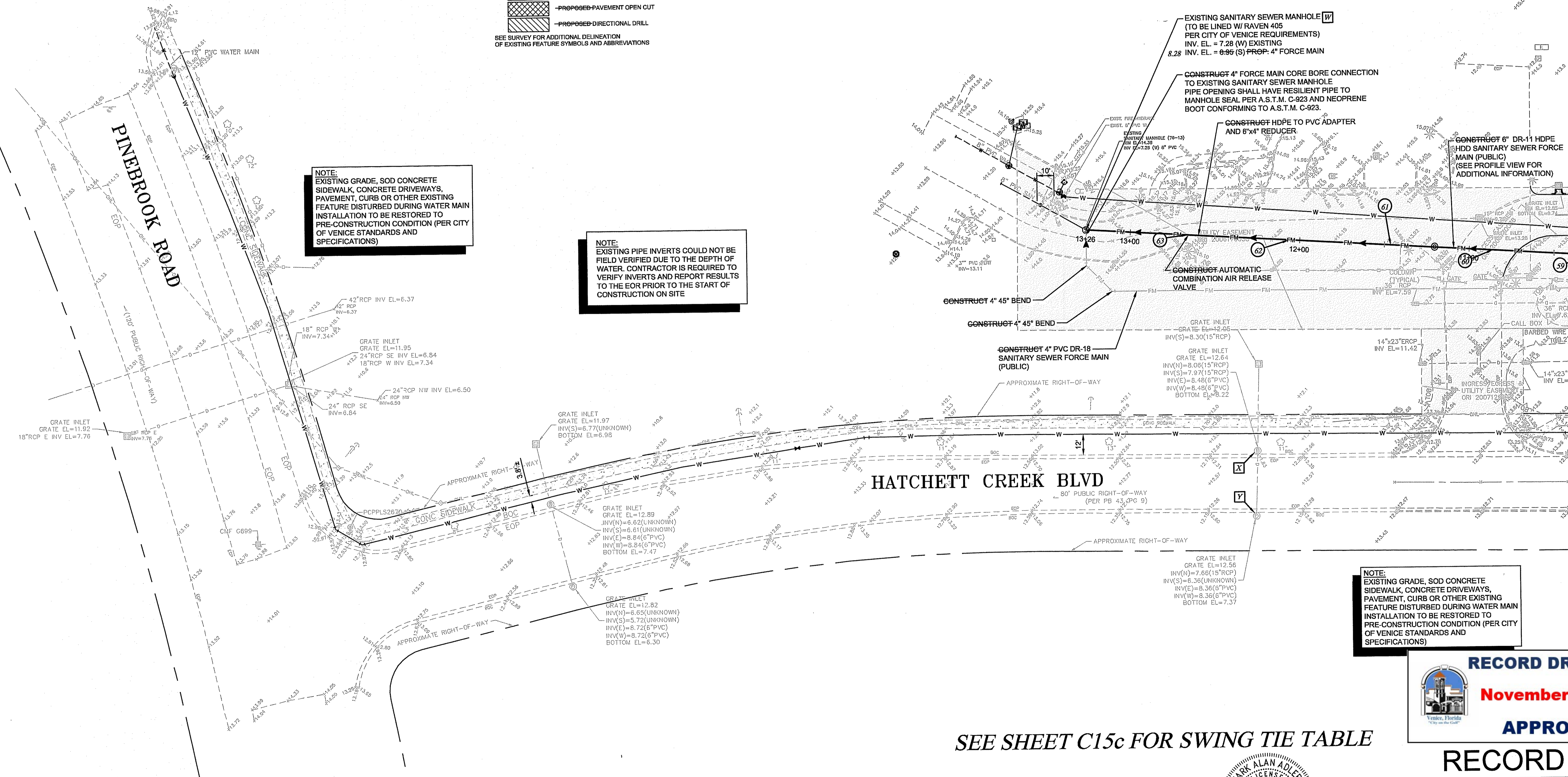
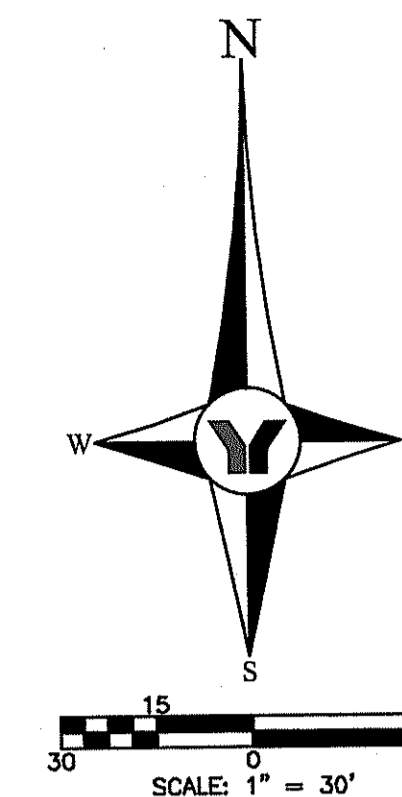


**LEGEND**

- EXIST. OVERHEAD UTILITY LINES
  - EXIST. CHAINED LINK FENCE
  - EXIST. WOODBOARD FENCE
  - EXIST. BARBED WIRE FENCE
  - EXIST. GRATE INLET
  - EXIST. GUY DOWN GUY ANCHOR
  - EXIST. POWER POLE
  - EXIST. MITERED END SECTION
  - EXIST. MANHOLE, DRAINAGE
  - EXIST. MANHOLE, GAS
  - EXIST. SIGN
  - PROJECT BOUNDARY
  - PROPOSED STORM DRAINAGE
  - PROPOSED STORM INLET
  - PROPOSED STORM MANHOLE
  - PROPOSED ENDWALL
  - PROPOSED SANITARY SEWER
  - PROPOSED SANITARY MANHOLE
  - PROPOSED FORCE MAIN
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  - PROPOSED DOMESTIC WATER
  - PROPOSED FIRE HYDRANT AND VALVE
  - PROPOSED BLOWOFF
  - PROPOSED GATE VALVE
  - PROPOSED METER
  - PROPOSED POST INDICATOR VALVE (PIV)
  - PROPOSED BACK FLOW PREVENTOR (BFP)
  - PROPOSED FIRE DEPARTMENT CONNECTION (FDC)
  - PUBLIC UTILITY EASEMENTS
  - PROPOSED CONCRETE
  - PROPOSED SHELL
  - PROPOSED PAVEMENT OPEN CUT
  - PROPOSED DIRECTIONAL DRILL
- SEE SURVEY FOR ADDITIONAL DELINEATION OF EXISTING FEATURE SYMBOLS AND ABBREVIATIONS

**PIPE MATERIALS:**

- GRAVITY SANITARY SEWER PIPE = PVC SDR 26
- GRAVITY SANITARY SEWER PIPE CONNECTIONS FROM FIRST MANHOLE TO THE WET WELL = PVC C900 DR-14
- SANITARY SEWER FORCE MAIN = PVC AWWA C900 DR-25
- ALL FITTINGS, COUPLINGS, AND SLEEVES SHALL BE MECHANICAL JOINT, WITH THE EXCEPTION OF WET TAPS.
- POTABLE WATER MAIN = AWWA C900, DR-18 PRESSURE CLASS 150 PSI
- POTABLE WATER SERVICES = HDPE DR-9
- FIRE PROTECTION MAIN = AWWA C900, DR-18 PRESSURE CLASS 150 PSI



**NOTE:**  
EXISTING GRADE, SOD CONCRETE SIDEWALK, CONCRETE DRIVEWAYS, PAVEMENT, CURB OR OTHER EXISTING FEATURE DISTURBED DURING WATER MAIN INSTALLATION TO BE RESTORED TO PRE-CONSTRUCTION CONDITION (PER CITY OF VENICE STANDARDS AND SPECIFICATIONS)

**NOTE:**  
EXISTING PIPE INVERTS COULD NOT BE FIELD VERIFIED DUE TO THE DEPTH OF WATER. CONTRACTOR IS REQUIRED TO VERIFY INVERTS AND REPORT RESULTS TO THE EOR PRIOR TO THE START OF CONSTRUCTION ON SITE

**NOTE:**  
EXISTING GRADE, SOD CONCRETE SIDEWALK, CONCRETE DRIVEWAYS, PAVEMENT, CURB OR OTHER EXISTING FEATURE DISTURBED DURING WATER MAIN INSTALLATION TO BE RESTORED TO PRE-CONSTRUCTION CONDITION (PER CITY OF VENICE STANDARDS AND SPECIFICATIONS)

FOR CONTINUATION SEE SHEET C14

SEE SHEET C15c FOR SWING TIE TABLE

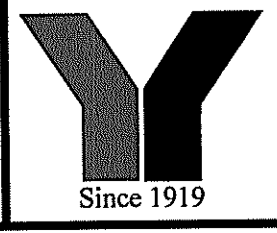
**RECORD DRAWINGS**  
**November 27, 2023**  
**APPROVED**

**RECORD DRAWING**

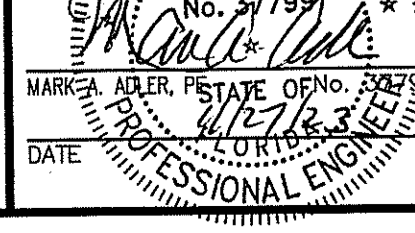
NO.	BY	DATE	DESCRIPTION
1	PN	11/09/20	PLANS UPDATED PER COV REVIEW COMMENTS DATED 10/12/20
2	FN	01/15/21	REV. PER COV REVIEW COMMENTS DATED 01/04/21. RELOCATE FM ARV

NO.	BY	DATE	DESCRIPTION
DESIGN	NICKLS	12/07/18	
DRAWN	NICKLS	12/10/18	
CHECKED	RISSMAN		
QUALITY CHK			
SCALE			

PREPARED FOR:  
**HATCHETT CREEK ASSOCIATES, LLC**  
101 EAST MAIN STREET, SUITE 500  
MT. HOREB, WISCONSIN 53572  
(608) 437-8301



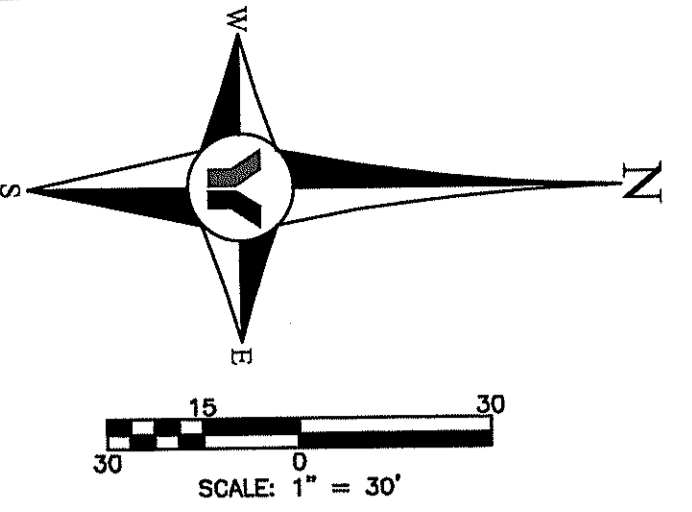
**George F. Young, Inc.**  
10540 PORTAL CROSSING, SUITE 105, LAKEWOOD RANCH, FLORIDA 34211-4913  
PHONE (841) 747-2881 FAX (841) 747-7234 WWW.GEORGEYOUNG.COM  
ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21  
CIVIL & TRANSPORTATION ENGINEERING | ECOLOGY | GIS/LANDSCAPE ARCHITECTURE  
PLANNING | SURVEYING | SUBSURFACE UTILITY ENGINEERING  
GAINESVILLE • LAKEWOOD RANCH • ORLANDO • ST. PETERSBURG • TAMPA



**WATERFRONT ON HATCHETT CREEK**  
**UTILITY PLAN**  
SECTION 9, TOWNSHIP 39S., RANGE 19E.

JOB NO.  
18000600LC  
SHEET NO.  
**C13**





**LEGEND**

- EXIST. OVERHEAD UTILITY LINES
  - EXIST. CHAINED LINK FENCE
  - EXIST. WOODBOARD FENCE
  - EXIST. BARBED WIRE FENCE
  - EXIST. GRATE INLET
  - EXIST. GUY'S DOWN GUY ANCHOR
  - EXIST. POWER POLE
  - EXIST. MITERED END SECTION
  - EXIST. MANHOLE, DRAINAGE
  - EXIST. MANHOLE, GAS
  - EXIST. SIGN
  - PROJECT BOUNDARY
  - PROPOSED STORM DRAINAGE
  - PROPOSED STORM INLET
  - PROPOSED STORM MANHOLE
  - PROPOSED ENDWALL
  - PROPOSED SANITARY SEWER
  - PROPOSED SANITARY MANHOLE
  - PROPOSED FORCE MAIN
  - PROPOSED FIRE LINE
  - PROPOSED DOMESTIC WATER
  - PROPOSED FIRE HYDRANT AND VALVE
  - PROPOSED BLOWOFF
  - PROPOSED GATE VALVE
  - PROPOSED METER
  - PROPOSED POST INDICATOR VALVE (PIV)
  - PROPOSED BACK FLOW PREVENTOR (BFP)
  - PROPOSED FIRE DEPARTMENT CONNECTION (FDC)
  - PUBLIC UTILITY EASEMENTS
  - PROPOSED CONCRETE
  - PROPOSED SHELL
  - PROPOSED PAVEMENT OPEN CUT
  - PROPOSED DIRECTIONAL DRILL
- SEE SURVEY FOR ADDITIONAL DELINEATION OF EXISTING FEATURE SYMBOLS AND ABBREVIATIONS

**FIRE DEPARTMENT CONNECTION NOTES:**

1. A SIGN IDENTIFYING THE ADDRESS SERVED BY THE FIRE DEPARTMENT CONNECTION SHALL BE MOUNTED TO THE FDC OR ITS RISER WITH CORROSION RESISTANT BRACKET.
2. THE SIGN SHALL BE 7" BY 10", WITH REFLECTIVE WHITE BACKGROUND AND RED LETTERS "FDC" A MINIMUM OF 2 3/4" TALL WITH 3/4" STROKE. THE ADDRESS SHALL BE LETTERS A MINIMUM OF 1 1/2" TALL WITH 3/8" STROKE.

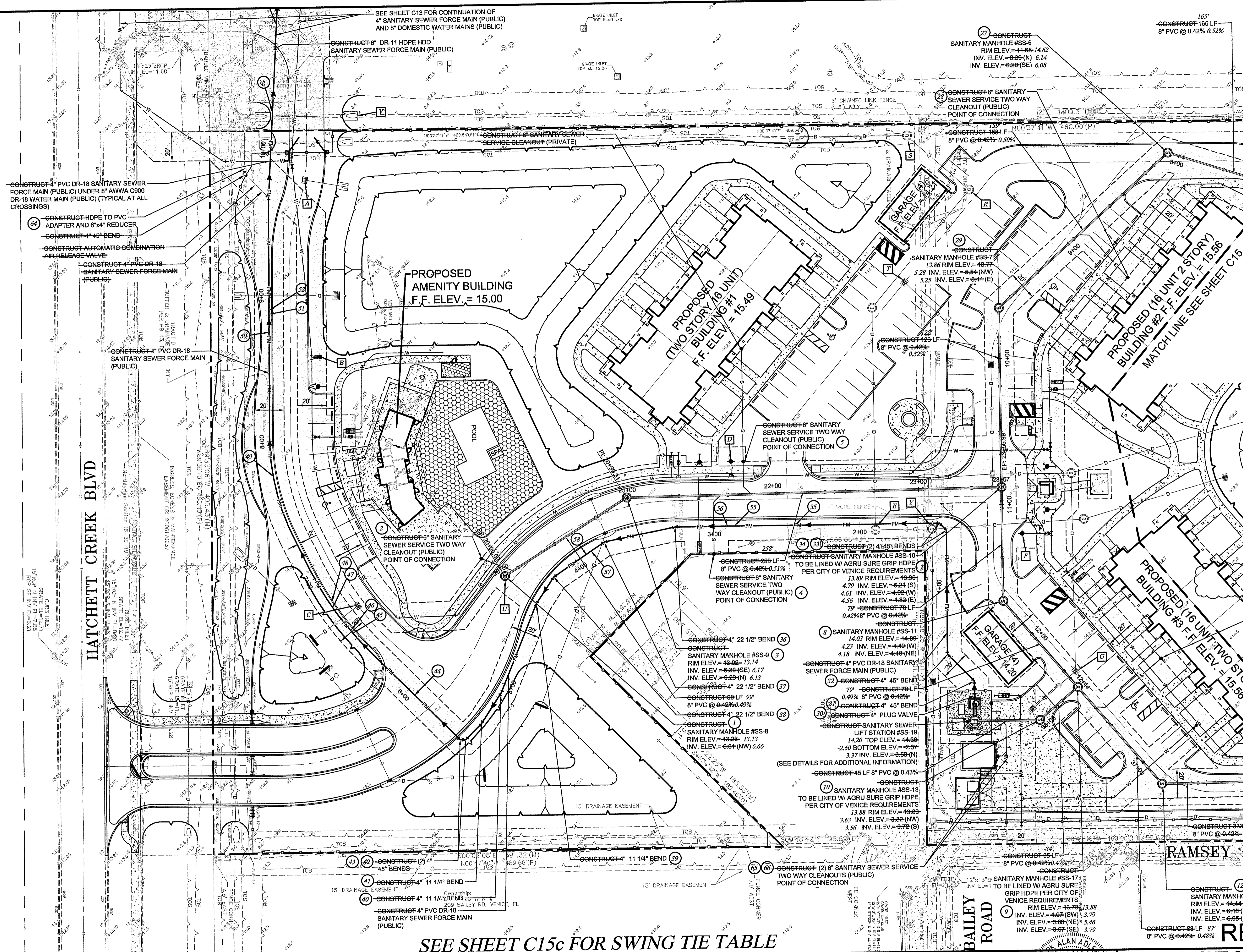
**RECORD DRAWINGS**  
November 27, 2023

**APPROVED**

**RECORD DRAWING**

WATERFRONT ON HATCHETT CREEK  
UTILITY PLAN

SECTION 9, TOWNSHIP 39 S., RANGE 19 E.  
SHEET NO. **C14**



SEE SHEET C15c FOR SWING TIE TABLE

NO.	BY	DATE	DESCRIPTION
1	PN	11/05/20	PLANS UPDATED PER COV REVIEW COMMENTS DATED 10/12/20
2	PN	01/15/21	REV. PER COV REVIEW COMMENTS DATED 01/04/21.
3	PN	05/20/21	LIFT STATION BFP CALLED OUT AS RPZ

NO.	BY	DATE	DESCRIPTION
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DRAWN	NCKOLS	12/10/18	
CHECKED	RISMAN		
QUALITY CHK			
SCALE			

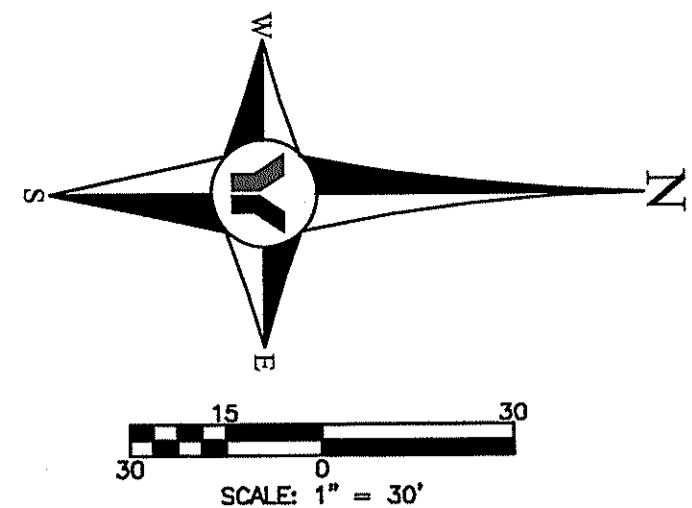
PREPARED FOR:  
**HATCHETT CREEK ASSOCIATES, LLC**  
101 EAST MAIN STREET, SUITE 500  
MT. HOREB, WISCONSIN 53572  
(608) 437-8301

**George F. Young, Inc.**  
10540 PORTAL CROSSING, SUITE 105 LAKEWOOD RANCH, FLORIDA 34211-4913  
PHONE (841) 747-2881 FAX (841) 747-7234 WWW.GEORGEFYOUNG.COM  
ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21  
CIVIL & TRANSPORTATION ENGINEERING ECOCLOGY LANDSCAPE ARCHITECTURE  
PLANNING SURVEYING SUBSURFACE UTILITY ENGINEERING  
GAINESVILLE LAKEWOOD RANCH ORLANDO ST. PETERSBURG TAMPA

ALAN ADAMS  
Professional Engineer  
No. 37798  
DATE: 11/27/2023

**RECORD DRAWING**  
WATERFRONT ON HATCHETT CREEK  
UTILITY PLAN  
SECTION 9, TOWNSHIP 39 S., RANGE 19 E.  
JOB NO. 1800600LC  
SHEET NO. **C14**

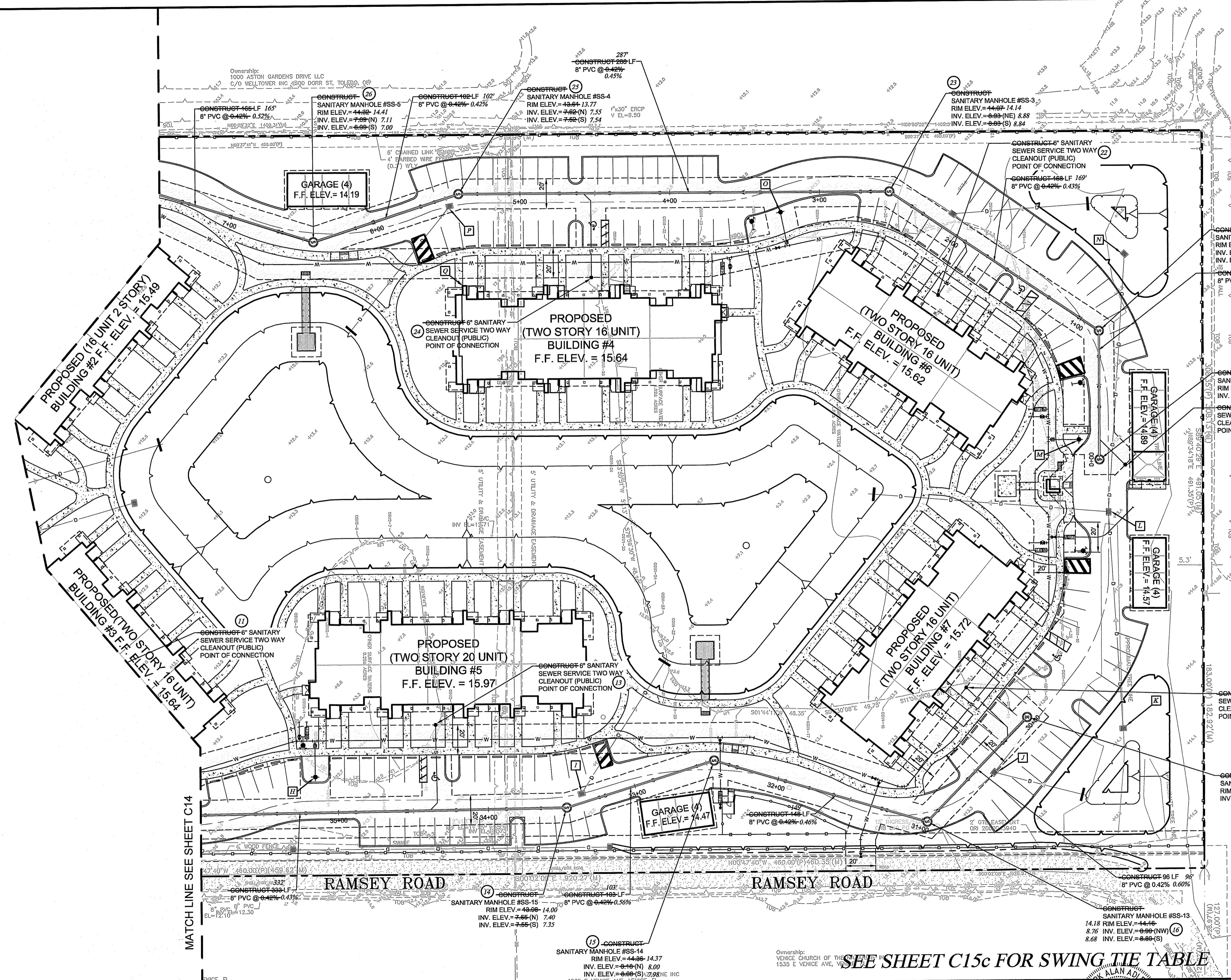




- \* FIRE DEPARTMENT CONNECTION NOTES:**
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  2. THE SIGN SHALL BE 7" BY 10", WITH REFLECTIVE WHITE BACKGROUND AND RED LETTERS "FDC" A MINIMUM OF 2 3/4" TALL WITH 3/4" STROKE. THE ADDRESS SHALL BE LETTERS A MINIMUM OF 1 1/2" TALL WITH 3/8" STROKE.

**LEGEND**

- OHL — EXIST. OVERHEAD UTILITY LINES
  - — EXIST. CHAINED LINK FENCE
  - — EXIST. WOOD BOARD FENCE
  - — EXIST. BARBED WIRE FENCE
  - — EXIST. GRATE INLET
  - — EXIST. GUYS DOWN GUY ANCHOR
  - — EXIST. POWER POLE
  - — EXIST. MITTERED END SECTION
  - — EXIST. MANHOLE DRAINAGE
  - — EXIST. MANHOLE GAS
  - — EXIST. SIGN
  - — PROJECT BOUNDARY
  - — PROPOSED STORM DRAINAGE
  - — PROPOSED STORM INLET
  - — PROPOSED STORM MANHOLE
  - — PROPOSED ENDWALL
  - — PROPOSED SANITARY SEWER
  - — PROPOSED SANITARY MANHOLE
  - — PROPOSED FORCE MAIN
  - — PROPOSED FIRE LINE
  - — PROPOSED DOMESTIC WATER
  - — PROPOSED FIRE HYDRANT AND VALVE
  - — PROPOSED BLOWOFF
  - — PROPOSED GATE VALVE
  - — PROPOSED METER
  - — PROPOSED POST INDICATOR VALVE (PIV)
  - — PROPOSED BACK FLOW PREVENTOR (BFP)
  - — PROPOSED FIRE DEPARTMENT CONNECTION (FDC)
  - — PUBLIC UTILITY EASEMENTS
  - — PROPOSED CONCRETE
  - — PROPOSED SHELL
  - — PROPOSED PAVEMENT OPEN CUT
  - — PROPOSED DIRECTIONAL DRILL
- SEE SURVEY FOR ADDITIONAL DELINEATION OF EXISTING FEATURE SYMBOLS AND ABBREVIATIONS



**RECORD DRAWINGS**  
**November 27, 2023**  
**APPROVED**

**RECORD DRAWING**

**WATERFRONT ON HATCHETT CREEK**  
 UTILITY PLAN  
 SECTION 9, TOWNSHIP 39S., RANGE 19E.

SEE SHEET C15c FOR SWING TIE TABLE

NO.	BY	DATE	DESCRIPTION
1	PN	11/05/20	PLANS UPDATED PER COV REVIEW COMMENTS DATED 10/12/20
2	PN	01/15/21	REV. PER COV REVIEW COMMENTS DATED 01/04/21.

NO.	BY	DATE	DESCRIPTION
DESIGN	INTLS	DATE	PREPARED FOR:
DRAWN	NICKOLS	12/07/18	HATCHETT CREEK ASSOCIATES, LLC
CHECKED	RISSMAN	12/10/18	101 EAST MAIN STREET, SUITE 500
QUALITY CHK			MT. HOREB, WISCONSIN 53572
SCALE			(608) 437-8301

**George F. Young, Inc.**  
 10540 PORTAL CROSSING, SUITE 105 LAKEWOOD RANCH, FLORIDA 34211-4913  
 PHONE (941) 747-2981 FAX (941) 747-7234 WWW.GEORGEYOUNG.COM  
 ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21  
 CML & TRANSPORTATION ENGINEERING ECOCLOGY GIS LANDSCAPE ARCHITECTURE  
 PLANNING SURVEYING SUBSURFACE UTILITY ENGINEERING  
 GAINESVILLE LAKEWOOD RANCH ORLANDO ST. PETERSBURG TAMPA

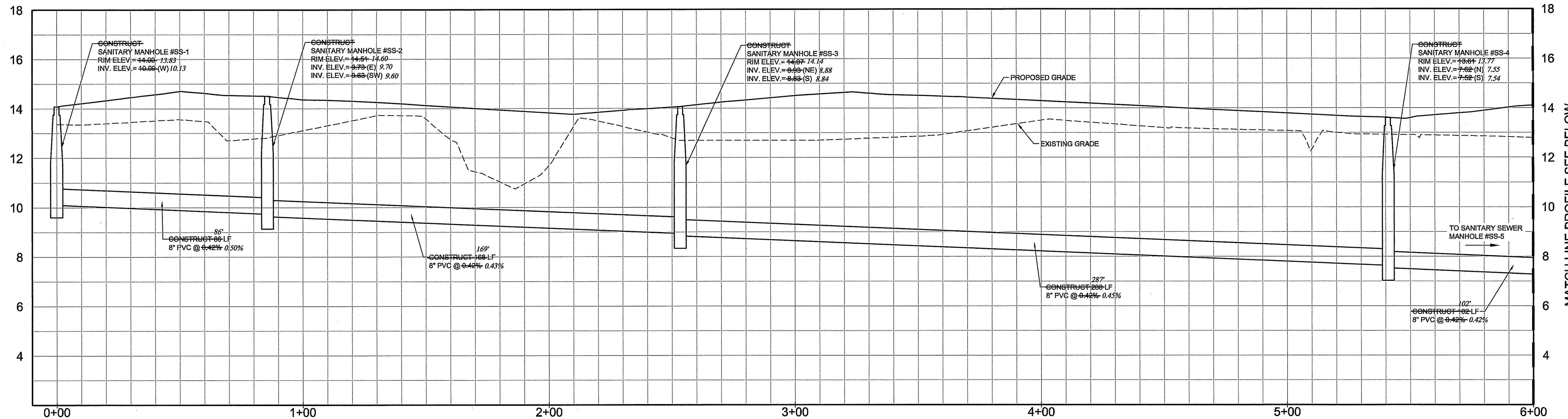
**ALAN ADRIAN**  
 PROFESSIONAL ENGINEER  
 No. 37798  
 DATE 11/27/2023

**WATERFRONT ON HATCHETT CREEK**  
 UTILITY PLAN  
 SECTION 9, TOWNSHIP 39S., RANGE 19E.  
 JOB NO. 18000600LC  
 SHEET NO. C15

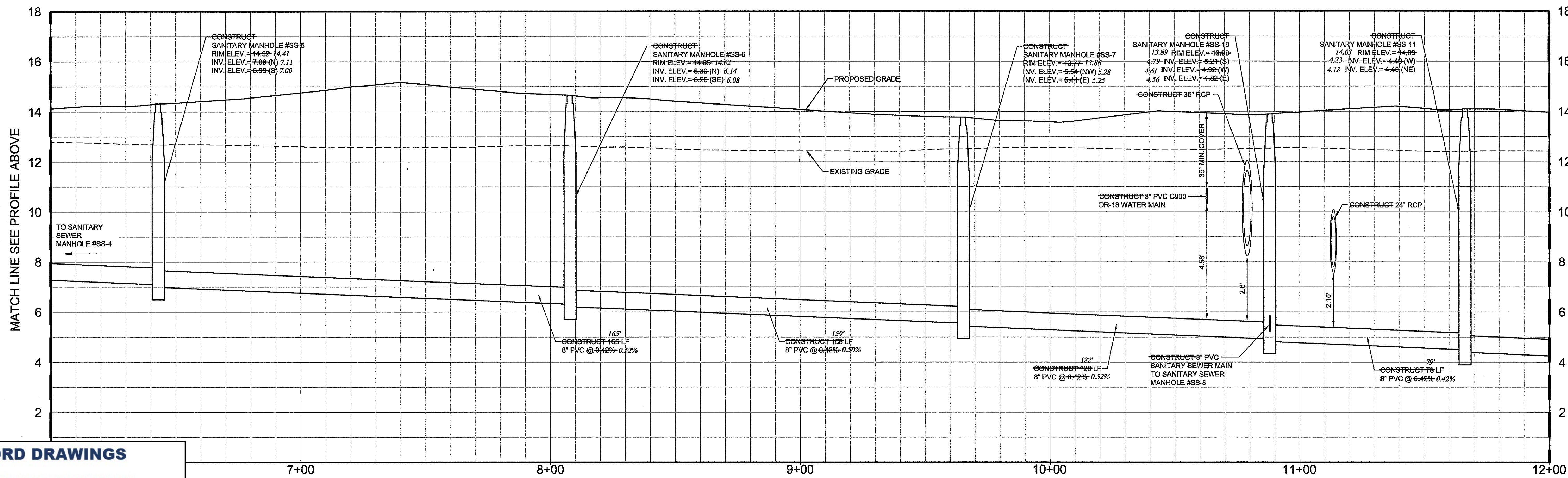








**SANITARY SEWER GRAVITY MAIN PROFILE**



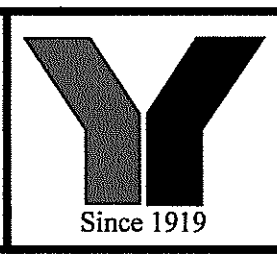
**SANITARY SEWER GRAVITY MAIN PROFILE**

**RECORD DRAWINGS**  
November 27, 2023  
**APPROVED**

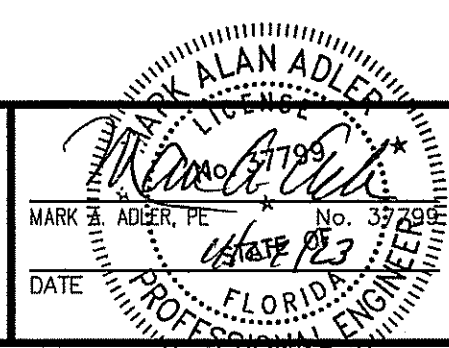
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NO.	BY	DATE	DESCRIPTION

PREPARED FOR:  
**HATCHETT CREEK ASSOCIATES, LLC**  
101 EAST MAIN STREET, SUITE 500  
MT. HOREB, WISCONSIN 53572  
(608) 437-8301



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PLANNING/SURVEYING/SUBSURFACE UTILITY ENGINEERING  
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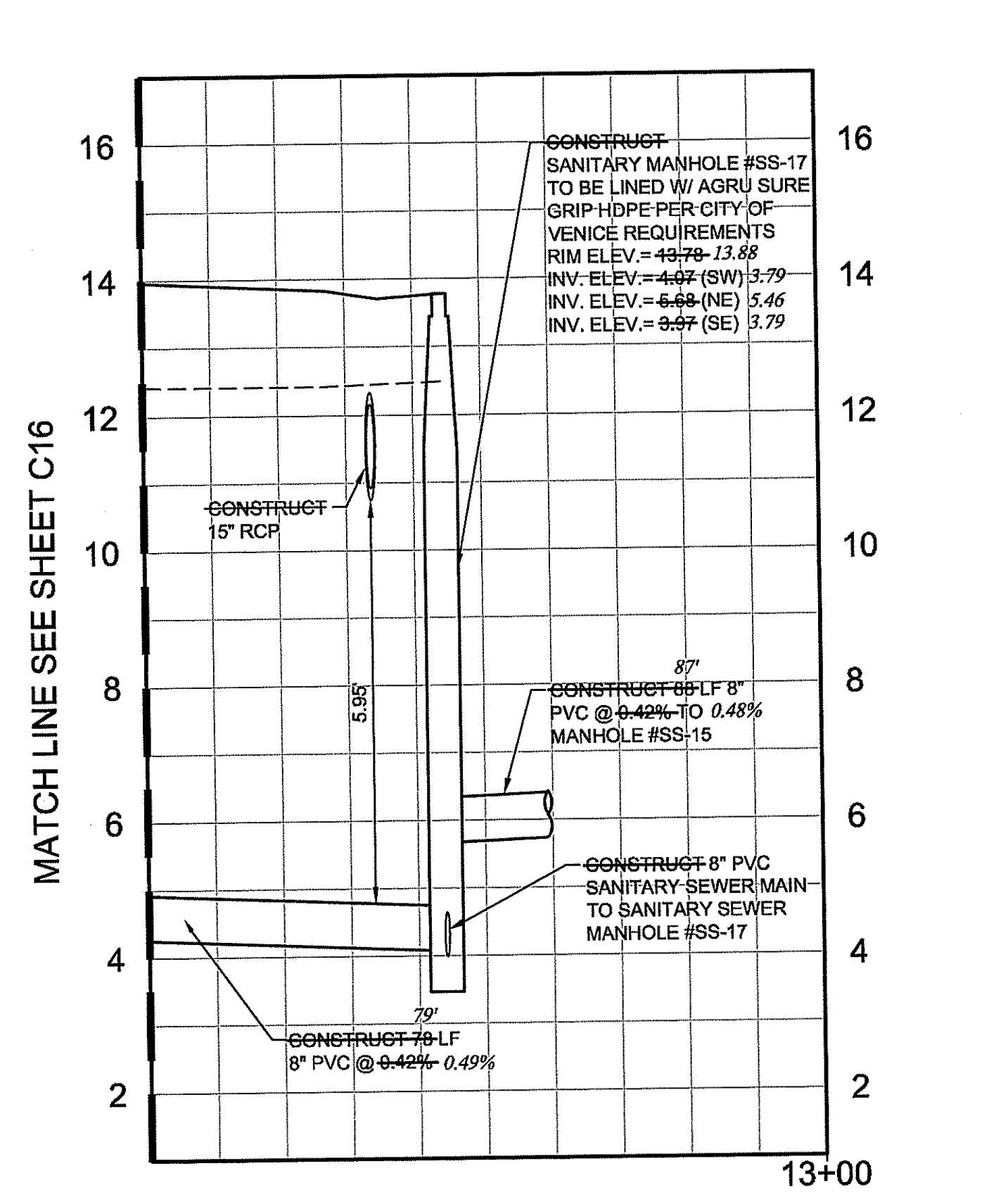


**WATERFRONT ON HATCHETT CREEK**  
**SANITARY SEWER GRAVITY MAIN PROFILE**  
SECTION 9, TOWNSHIP 39 S., RANGE 19 E.

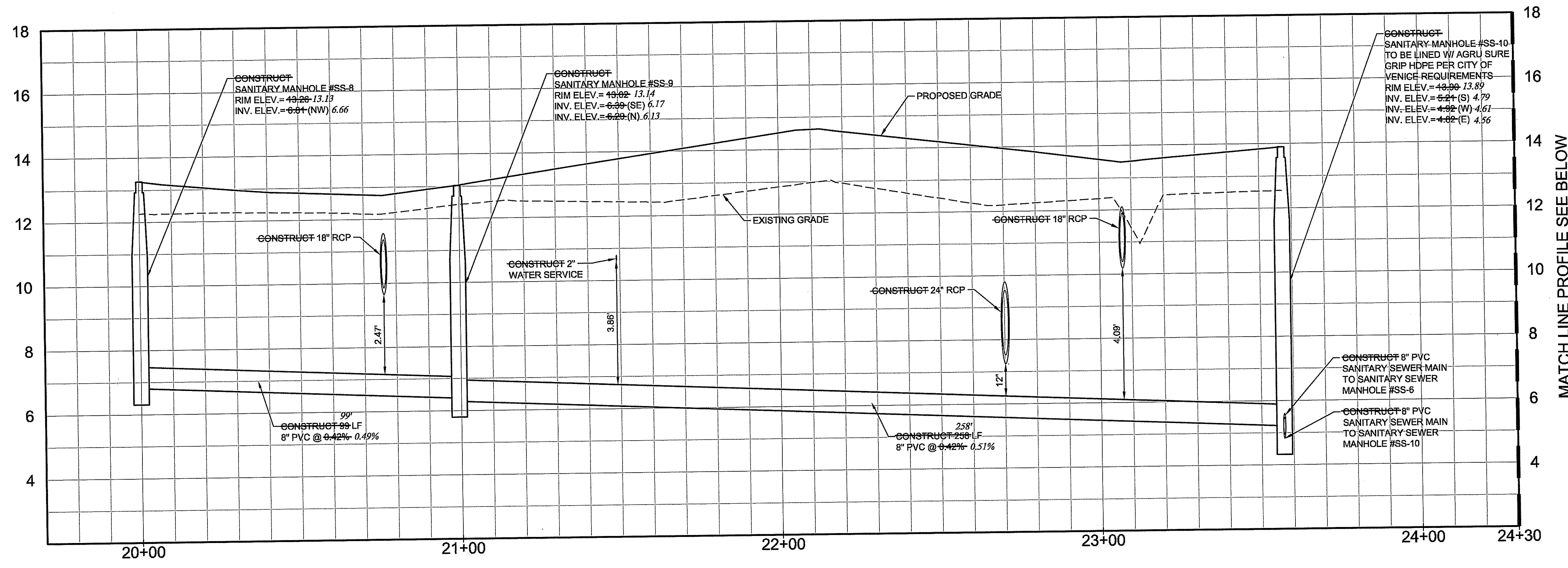
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SHEET NO.  
**C16**

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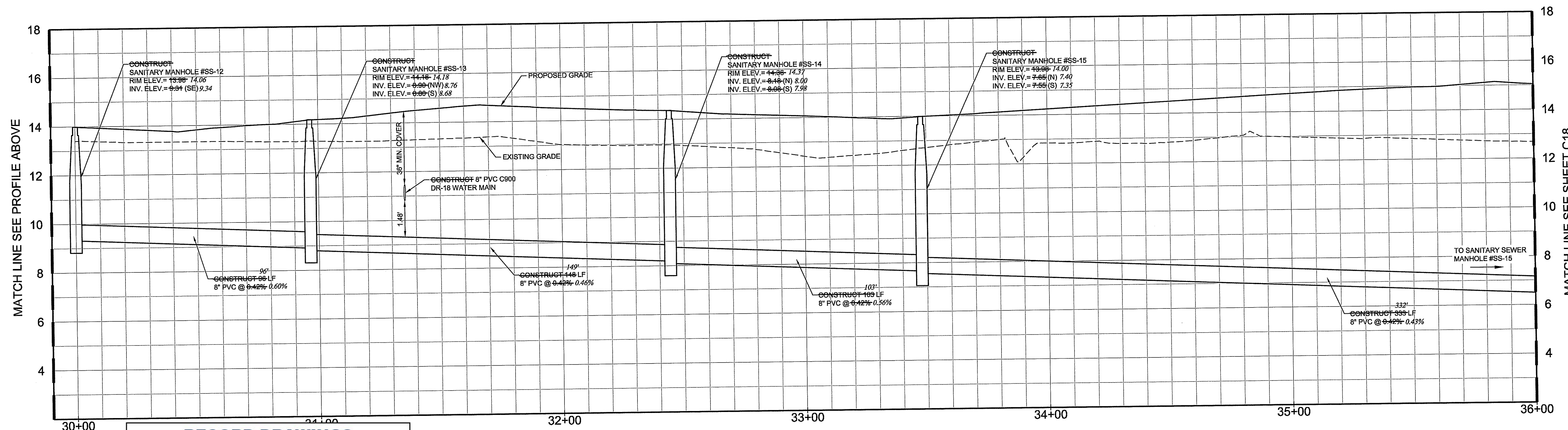


**SANITARY SEWER GRAVITY MAIN PROFILE**



**SANITARY SEWER GRAVITY MAIN PROFILE**

SCALE: 1"=20' HORZ.  
1"=2' VERT.



**SANITARY SEWER GRAVITY MAIN PROFILE**

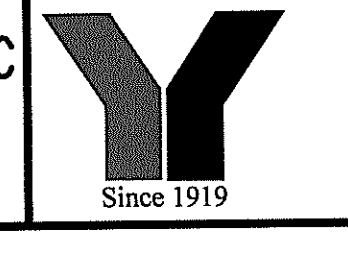
SCALE: 1"=20' HORZ.  
1"=2' VERT.

**RECORD DRAWINGS**  
November 27, 2023  
**APPROVED**

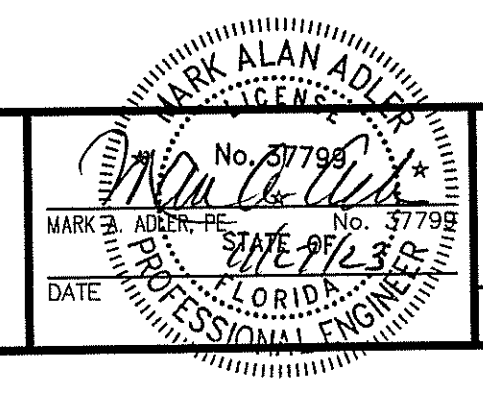
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DESIGN	INITIALS	DATE
DESIGN	NICKOLS	12/07/18
DRAWN	NICKOLS	12/10/18
CHECKED	RISSMAN	
QUALITY CHK		
SCALE		

PREPARED FOR:  
**HATCHETT CREEK ASSOCIATES, LLC**  
101 EAST MAIN STREET, SUITE 500  
MT. HOREB, WISCONSIN 53572  
(608) 437-8301



**George F. Young, Inc.**  
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PLANNING | SURVEYING | SUBSURFACE UTILITY ENGINEERING  
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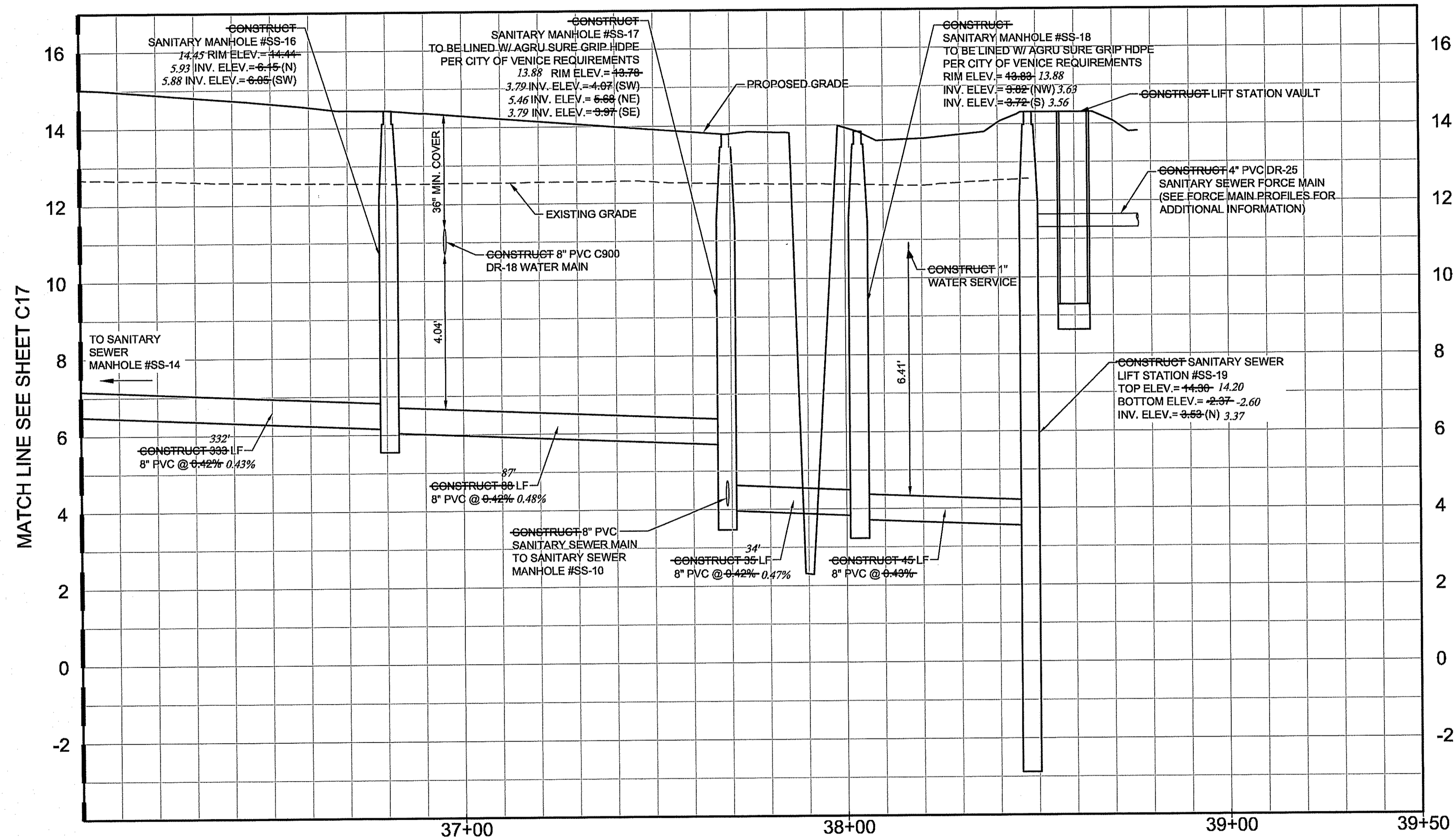


**RECORD DRAWING**  
**WATERFRONT ON HATCHETT CREEK**  
**SANITARY SEWER GRAVITY MAIN PROFILE**  
SECTION 9, TOWNSHIP 39S., RANGE 19E.

JOB NO.  
18000600LC  
SHEET NO.  
**C17**

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SCALE: 1"=20' HORZ.  
1"=2' VERT.

**SANITARY SEWER GRAVITY MAIN PROFILE**

**RECORD DRAWINGS**  
**November 27, 2023**  
**APPROVED**

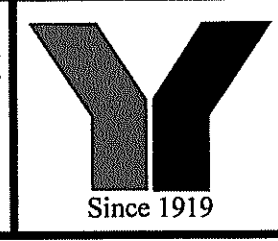
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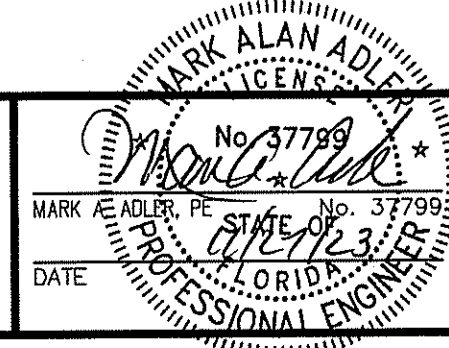
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DESIGN	INITIALS	DATE
NICKOLS		12/07/18
NICKOLS		12/10/18
CHECKED	RISSMAN	
QUALITY CHK		
SCALE		

PREPARED FOR:  
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 101 EAST MAIN STREET, SUITE 500  
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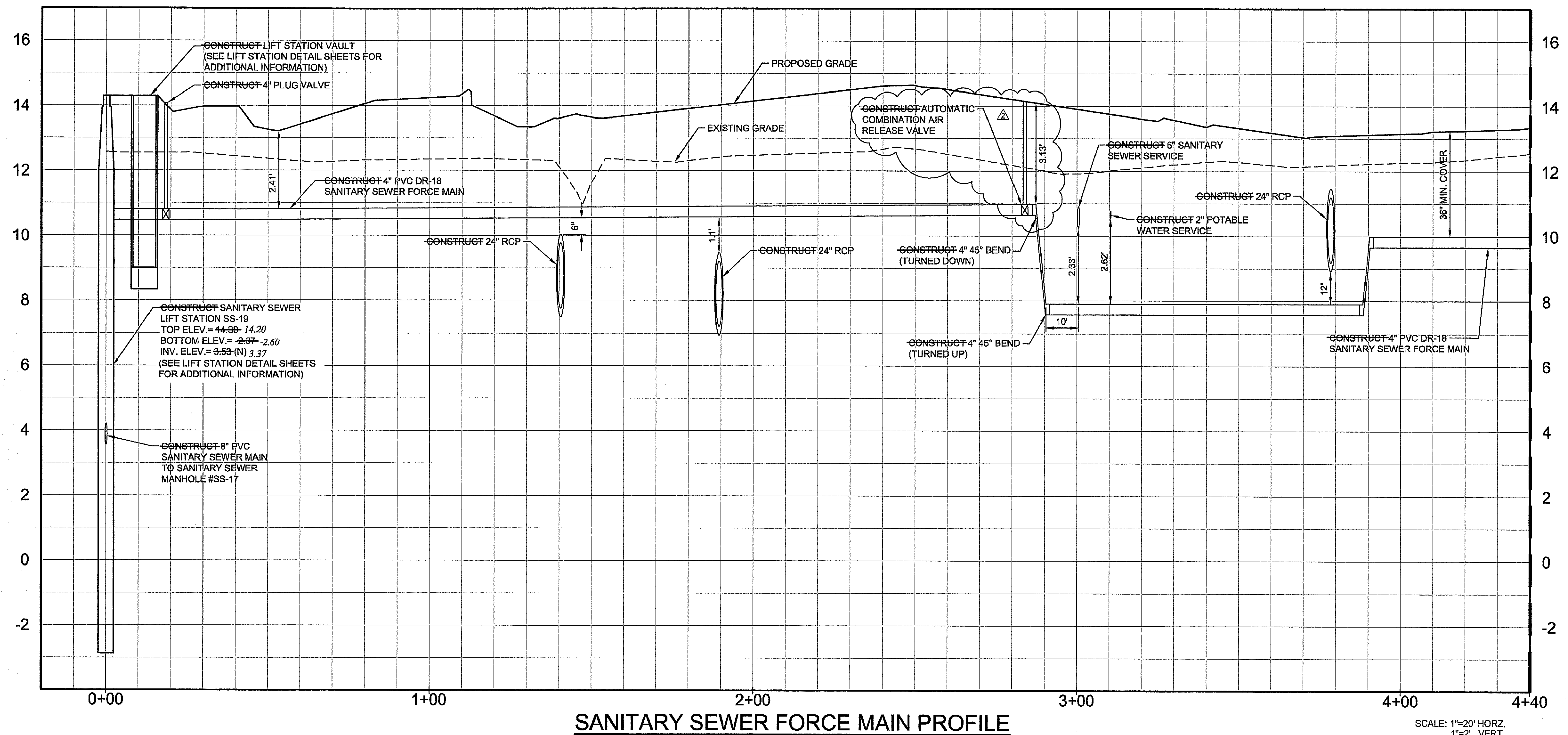
**George F. Young, Inc.**  
 10540 PORTAL CROSSING, SUITE 105 LAKEWOOD RANCH, FLORIDA 34211-4913  
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 PLANNING | SURVEYING | SUBSURFACE UTILITY ENGINEERING  
 GAINESVILLE • LAKEWOOD RANCH • ORLANDO • ST. PETERSBURG • TAMPA



**WATERFRONT ON HATCHETT CREEK**  
**SANITARY SEWER GRAVITY MAIN PROFILE**  
 SECTION 9, TOWNSHIP 39 S., RANGE 19 E.

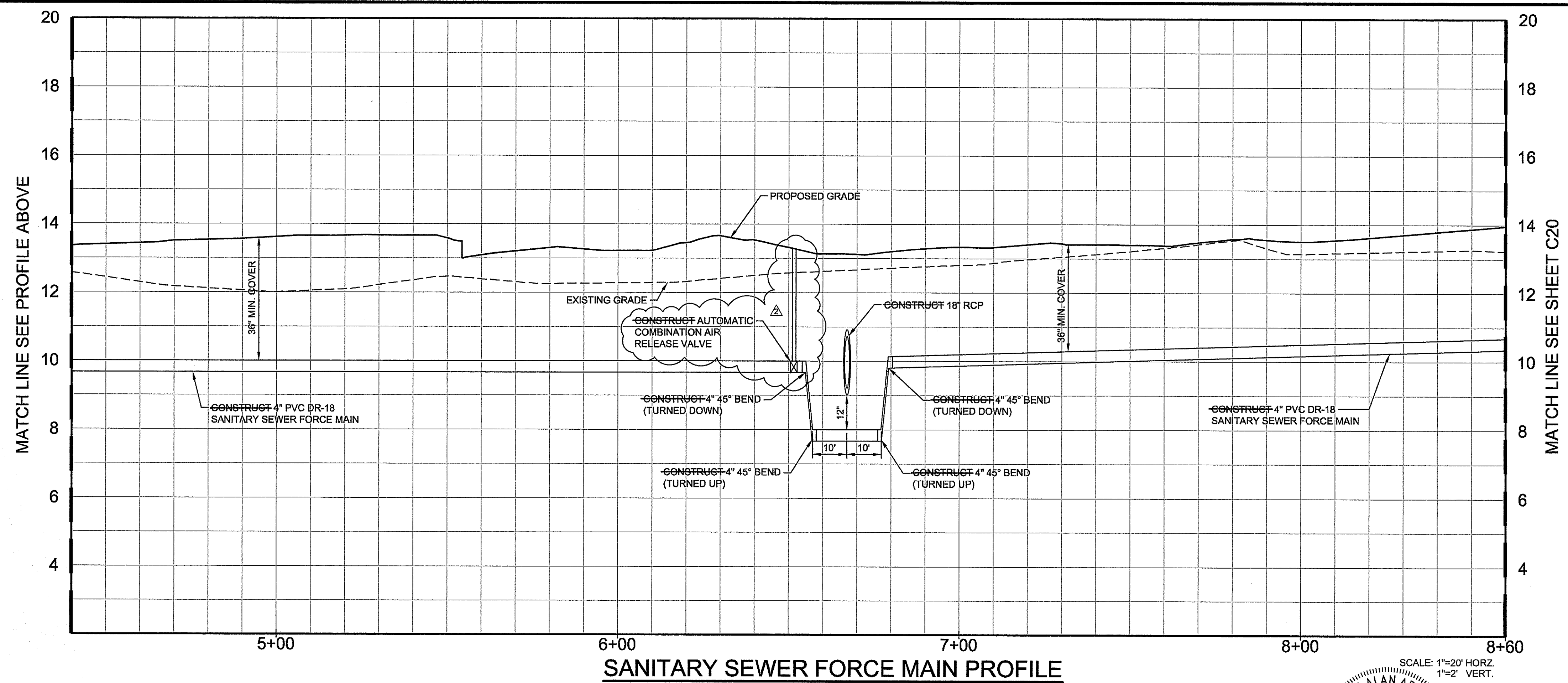
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18000600LC  
 SHEET NO.  
**C18**





**SANITARY SEWER FORCE MAIN PROFILE**

SCALE: 1"=20' HORZ.  
1"=2' VERT.



**SANITARY SEWER FORCE MAIN PROFILE**

SCALE: 1"=20' HORZ.  
1"=2' VERT.

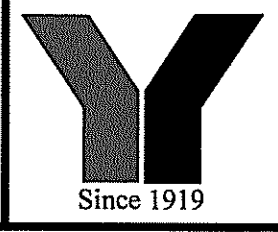
**RECORD DRAWINGS**  
November 27, 2023  
**APPROVED**

**RECORD DRAWING**

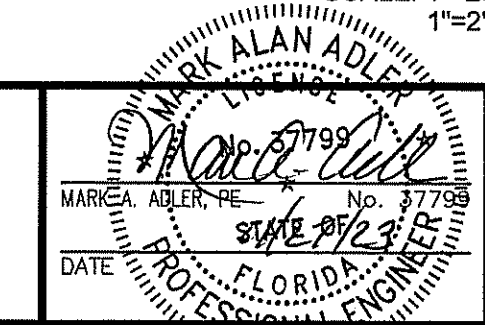
NO.	BY	DATE	DESCRIPTION
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2	PN	05/20/21	ADD AIR RELEASE VALVES TO SANITARY FORCE MAIN

NO.	BY	DATE	DESCRIPTION
DESIGN	NICKOLS	12/07/18	
DRAWN	NICKOLS	12/10/18	
CHECKED	RISSMAN		
QUALITY CHK			
SCALE			

PREPARED FOR:  
**HATCHETT CREEK ASSOCIATES, LLC**  
101 EAST MAIN STREET, SUITE 500  
MT. HOREB, WISCONSIN 53572  
(608) 437-8301



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PLANNING/SURVEYING/SUBSURFACE UTILITY ENGINEERING  
GAINESVILLE • LAKEWOOD RANCH • ORLANDO • ST. PETERSBURG • TAMPA

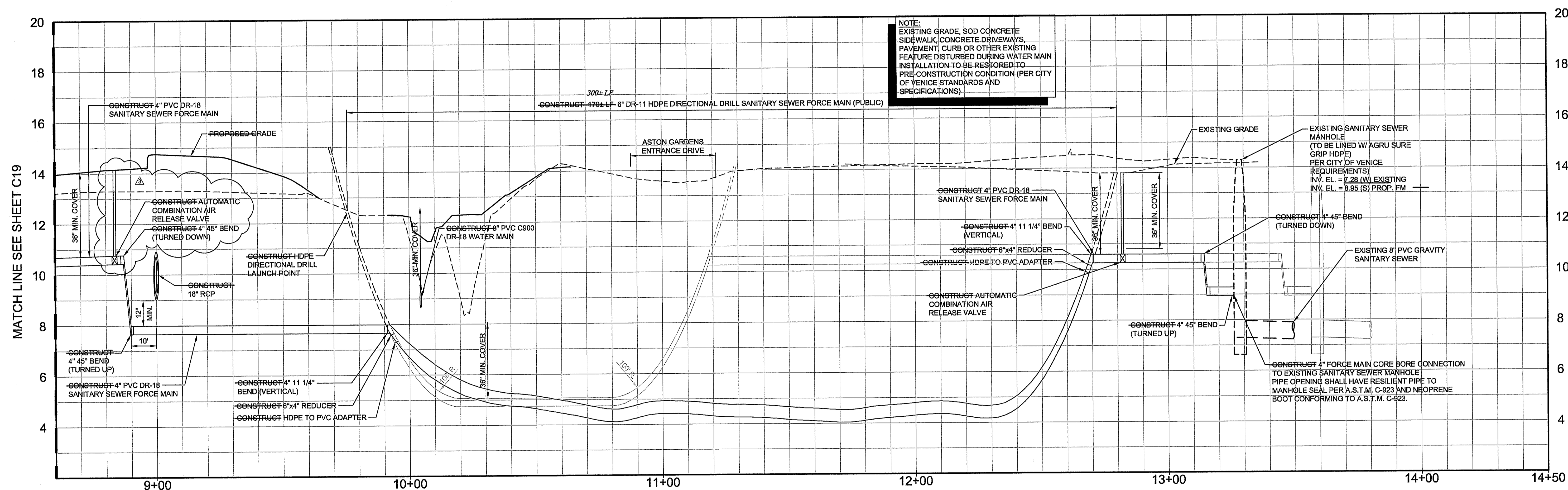


**WATERFRONT ON HATCHETT CREEK**  
**SANITARY SEWER FORCE MAIN PROFILE**

JOB NO.  
18000600LC  
SHEET NO.  
**C19**

SECTION 9, TOWNSHIP 39 S., RANGE 19 E.





**NOTE:**  
 EXISTING GRADE, SOD CONCRETE  
 SIDEWALK, CONCRETE DRIVEWAYS,  
 PAVEMENT, CURB OR OTHER EXISTING  
 FEATURE DISTURBED DURING WATER MAIN  
 INSTALLATION TO BE RESTORED TO  
 PRE-CONSTRUCTION CONDITION (PER CITY  
 OF VENICE STANDARDS AND  
 SPECIFICATIONS)

**SANITARY SEWER FORCE MAIN PROFILE**

SCALE: 1"=20' HORZ.  
 1"=2' VERT.

**RECORD DRAWINGS**  
**November 27, 2023**  
**APPROVED**

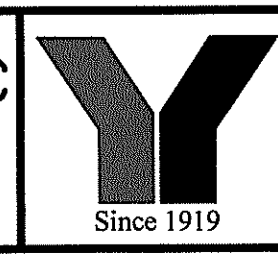
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NO.	BY	DATE	DESCRIPTION
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2	PN	01/15/21	REV. PER COV REVIEW COMMENTS DATED 01/04/21. RELOCATE FM ARV
3	PN	05/20/21	ADD AIR RELEASE VALVE TO SANITARY FORCE MAIN

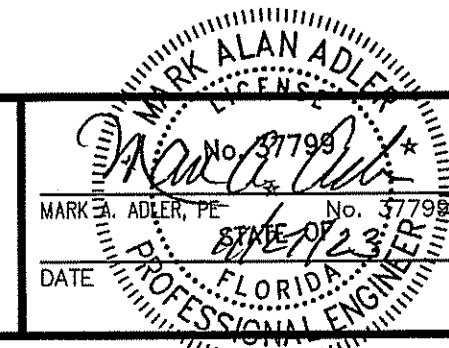
NO.	BY	DATE	DESCRIPTION

DESIGN	INITIALS	DATE
DESIGN	NICKOLS	12/07/18
DRAWN	NICKOLS	12/10/18
CHECKED	RISSMAN	
QUALITY CHK		
SCALE		

PREPARED FOR:  
**HATCHETT CREEK ASSOCIATES, LLC**  
 101 EAST MAIN STREET, SUITE 500  
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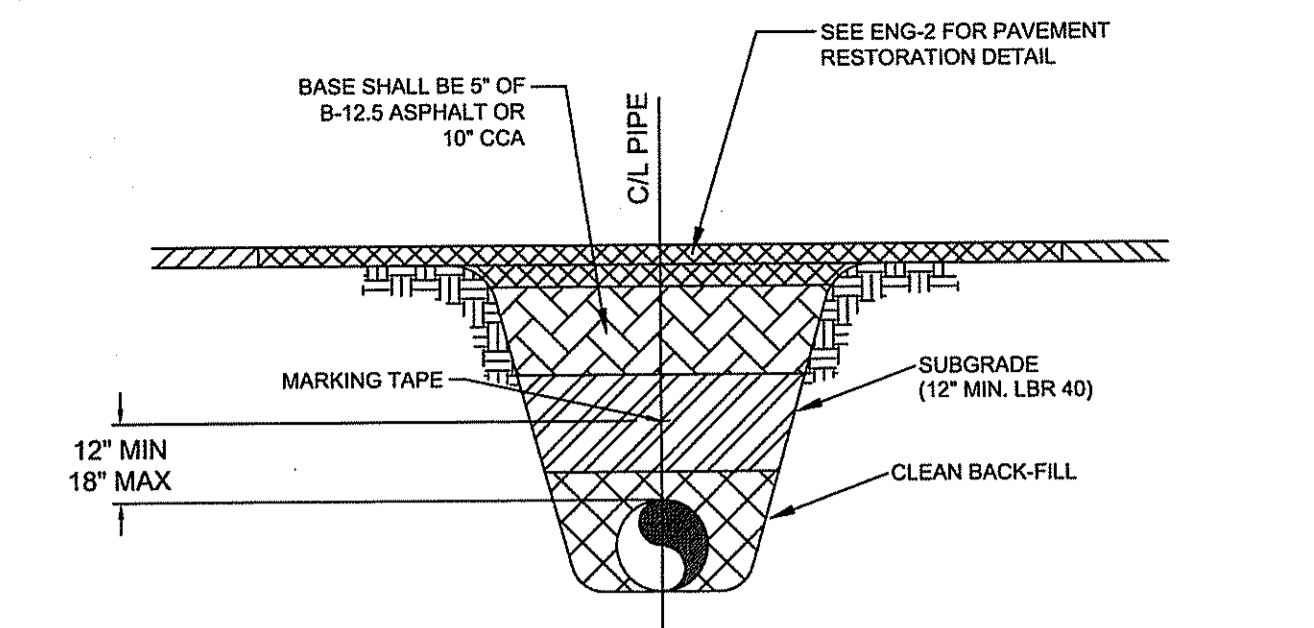


**WATERFRONT ON HATCHETT CREEK**  
**SANITARY SEWER FORCE MAIN PROFILE**  
 SECTION 9, TOWNSHIP 39S., RANGE 19E.

JOB NO.  
**18000600LC**  
 SHEET NO.  
**C20**

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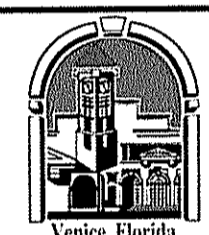


BASE SHALL BE 5" OF B-12.5 ASPHALT OR 10" CCA  
SEE ENG-2 FOR PAVEMENT RESTORATION DETAIL  
C/L PIPE  
MARKING TAPE  
SUBGRADE (12" MIN. LBR 40)  
CLEAN BACK-FILL  
12" MIN  
18" MAX

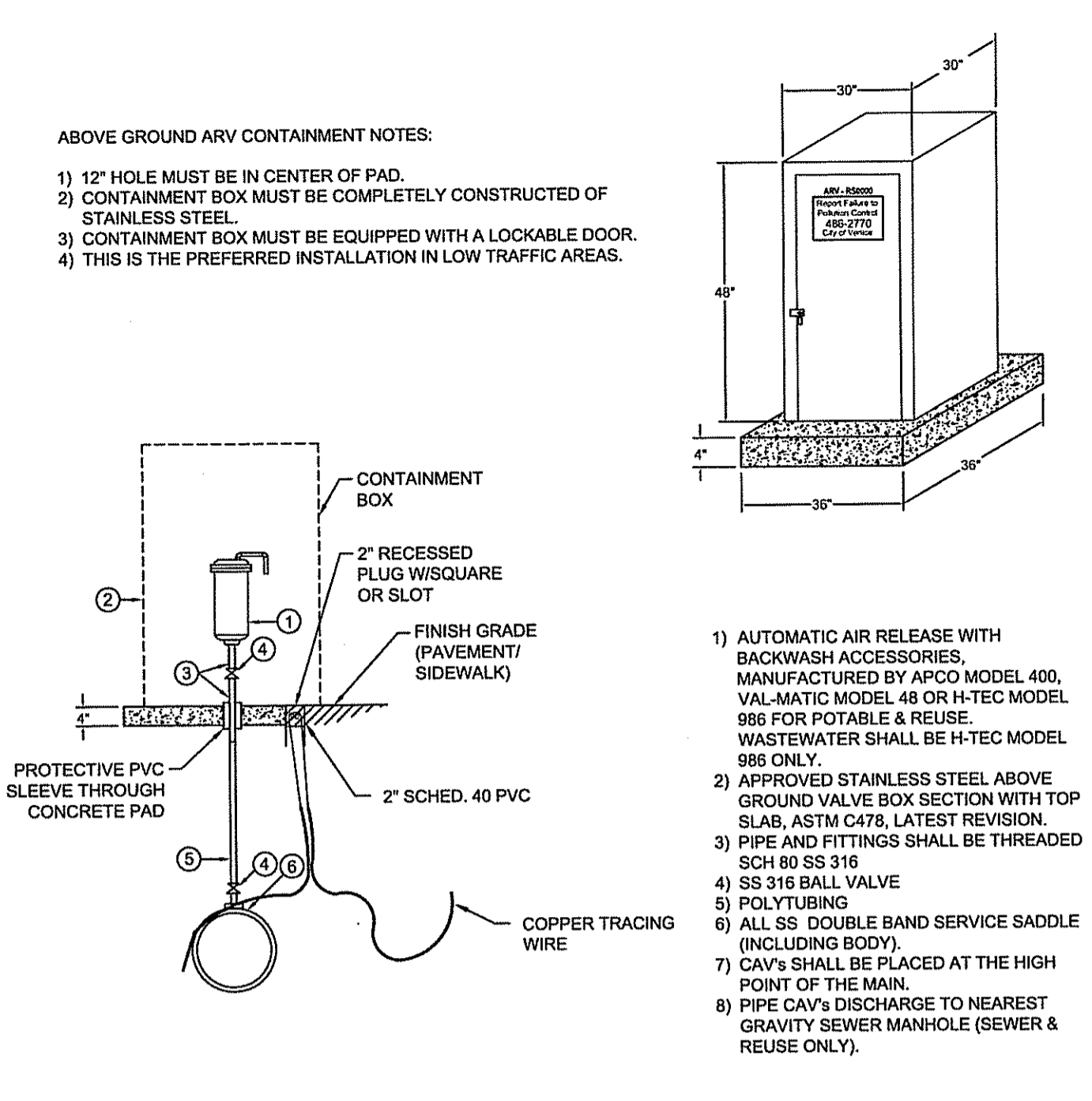
MARKING TAPE AND MESSAGES		
PIPE	TAPE COLOR	MESSAGE
PVC STORM WATER	WHITE	CAUTION STORM WATER OR STORM DRAIN BELOW
POTABLE WATER MAIN	BLUE	CAUTION POTABLE WATER MAIN BELOW
REUSE WATER MAIN	PURPLE	CAUTION REUSE WATER MAIN BELOW
SEWER FORCE MAIN	GREEN	CAUTION SEWER FORCE MAIN BELOW
SEWER & SERVICE LATERALS	GREEN	CAUTION SEWER MAIN BELOW

- COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE ATTACHED TO TOP OF PIPE AT 20' INTERVALS ON ALL RECLAIMED WATER, FORCE, OR POTABLE WATER MAINS. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES. (BLUE = WATER, GREEN = SEWER, PURPLE = REUSE)
- MINIMUM COVER SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE. MAXIMUM COVER SHALL BE 42" FROM FINISHED GRADE UNLESS OTHERWISE APPROVED.
- MAINS SHALL BE INSTALLED LEVEL AND ELIMINATE HIGH POINTS UNLESS OTHERWISE APPROVED BY UTILITIES DIRECTOR.
- INSTALLATION OF PIPE SHALL BE IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- PAVEMENT RESTORATION SHALL CONFORM WITH DETAIL ENG-2 OF THESE CITY STANDARDS. FOR NEW CONSTRUCTION, THE FIRST LIFT OF ASPHALT SHALL BE IN PLACE PRIOR TO RECORD DRAWING REVIEW.
- CONFLICTS - UTILIZE 45° BENDS WITH SEPARATION AS PER CITY DETAILS.
- ALL UTILITIES (PUBLIC & PRIVATE) THAT CROSS A DITCH/SWALE SHALL BE 36" MIN. BELOW THE ACTUAL DESIGN BOTTOM OF CONVEYANCE.
- MARKING TAPE SHALL BE 3" WIDE (MIN.) DETECTIBLE UNDERGROUND WARNING TAPE. INSTALL CENTERED DIRECTLY OVER THE PIPE.
- SEE S-6 FOR GRAVITY SEWER PIPE TRENCH DETAIL.

**PRESSURE PIPE TRENCH DETAIL**  
N.T.S.


	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - GENERAL</b> <b>UTILITY PIPE TRENCH</b>	DATE JAN 2023 SHEET NO. <b>U-1</b>
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ABOVE GROUND ARV CONTAINMENT NOTES:  
1) 12" HOLE MUST BE IN CENTER OF PAD.  
2) CONTAINMENT BOX MUST BE COMPLETELY CONSTRUCTED OF STAINLESS STEEL.  
3) CONTAINMENT BOX MUST BE EQUIPPED WITH A LOCKABLE DOOR.  
4) THIS IS THE PREFERRED INSTALLATION IN LOW TRAFFIC AREAS.

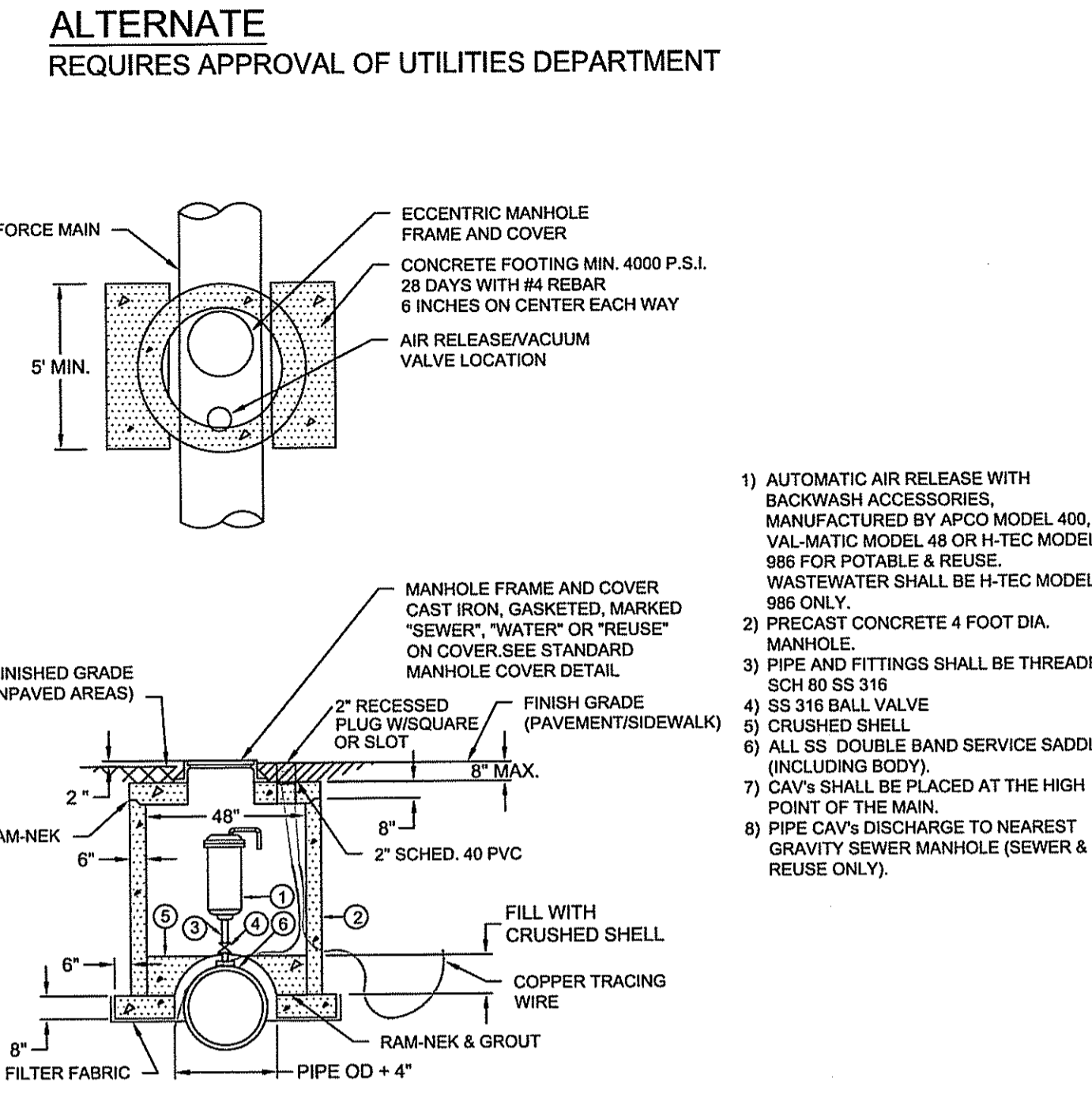


- AUTOMATIC AIR RELEASE WITH BACKWASH ACCESSORIES, MANUFACTURED BY APCO MODEL 400, VAL-MATIC MODEL 48 OR H-TEC MODEL 986 FOR POTABLE & REUSE. WASTEWATER SHALL BE H-TEC MODEL 986 ONLY.
- APPROVED STAINLESS STEEL ABOVE GROUND VALVE BOX SECTION WITH TOP SLAB, ASTM C478, LATEST REVISION.
- PIPE AND FITTINGS SHALL BE THREADED SCH 80 SS 316
- SS 316 BALL VALVE
- POLYTUBING
- ALL SS DOUBLE BAND SERVICE SADDLE (INCLUDING BODY).
- CAV'S SHALL BE PLACED AT THE HIGH POINT OF THE MAIN.
- PIPE CAV'S DISCHARGE TO NEAREST GRAVITY SEWER MANHOLE (SEWER & REUSE ONLY).

**AUTOMATIC COMBINATION AIR RELEASE VALVE (CAV) DETAIL**  
N.T.S.


	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - GENERAL</b> <b>AUTO. COMBINATION AIR RELEASE VALVE</b>	DATE JAN 2023 SHEET NO. <b>U-2</b>
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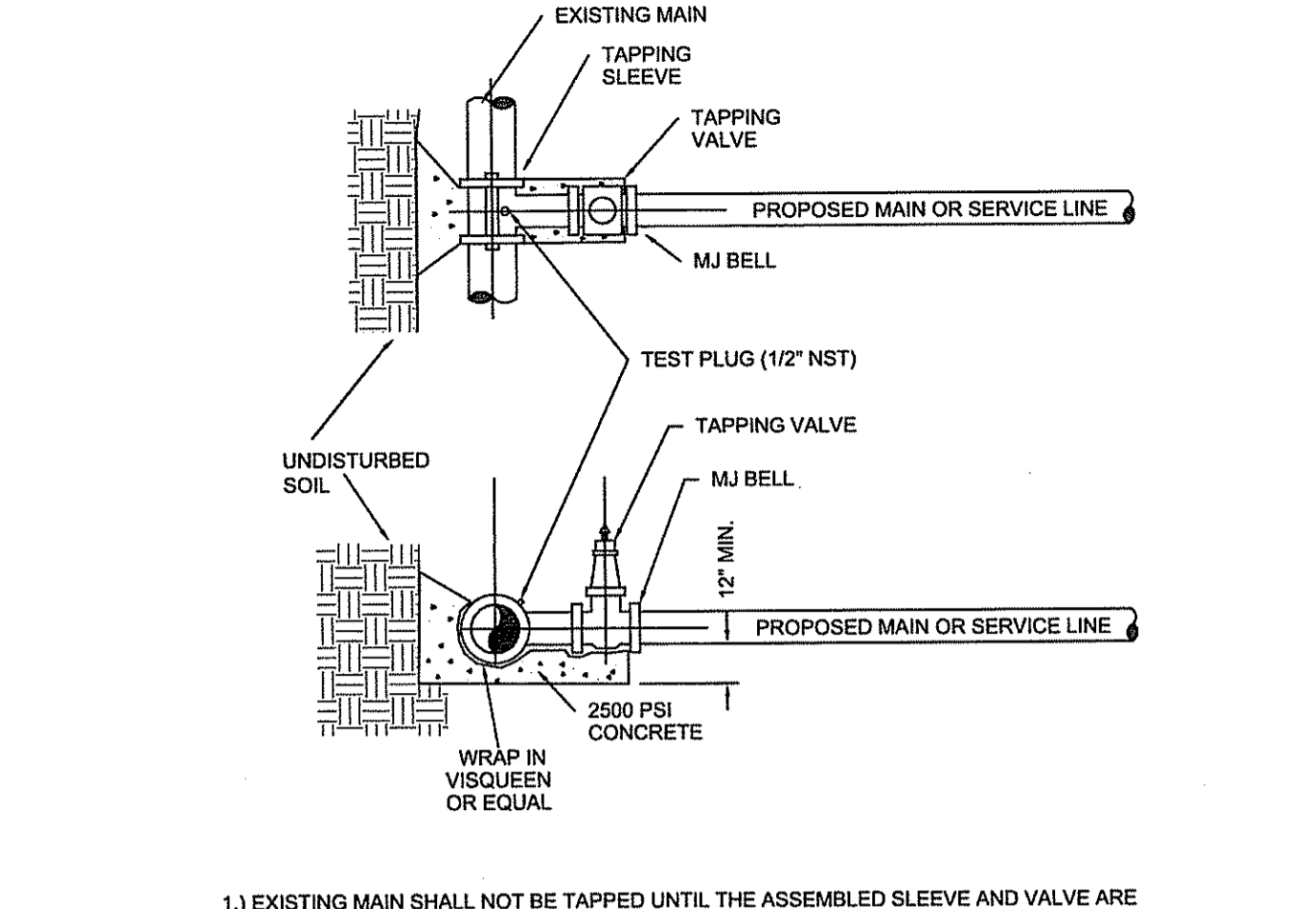
**ALTERNATE**  
REQUIRES APPROVAL OF UTILITIES DEPARTMENT



- AUTOMATIC AIR RELEASE WITH BACKWASH ACCESSORIES, MANUFACTURED BY APCO MODEL 400, VAL-MATIC MODEL 48 OR H-TEC MODEL 986 FOR POTABLE & REUSE. WASTEWATER SHALL BE H-TEC MODEL 986 ONLY.
- PRECAST CONCRETE 4 FOOT DIA. MANHOLE
- PIPE AND FITTINGS SHALL BE THREADED SCH 80 SS 316
- SS 316 BALL VALVE
- CRUSHED SHELL
- ALL SS DOUBLE BAND SERVICE SADDLE (INCLUDING BODY).
- CAV'S SHALL BE PLACED AT THE HIGH POINT OF THE MAIN.
- PIPE CAV'S DISCHARGE TO NEAREST GRAVITY SEWER MANHOLE (SEWER & REUSE ONLY).


**AUTOMATIC COMBINATION AIR RELEASE VALVE (CAV) DETAIL (ALTERNATE)**  
N.T.S.

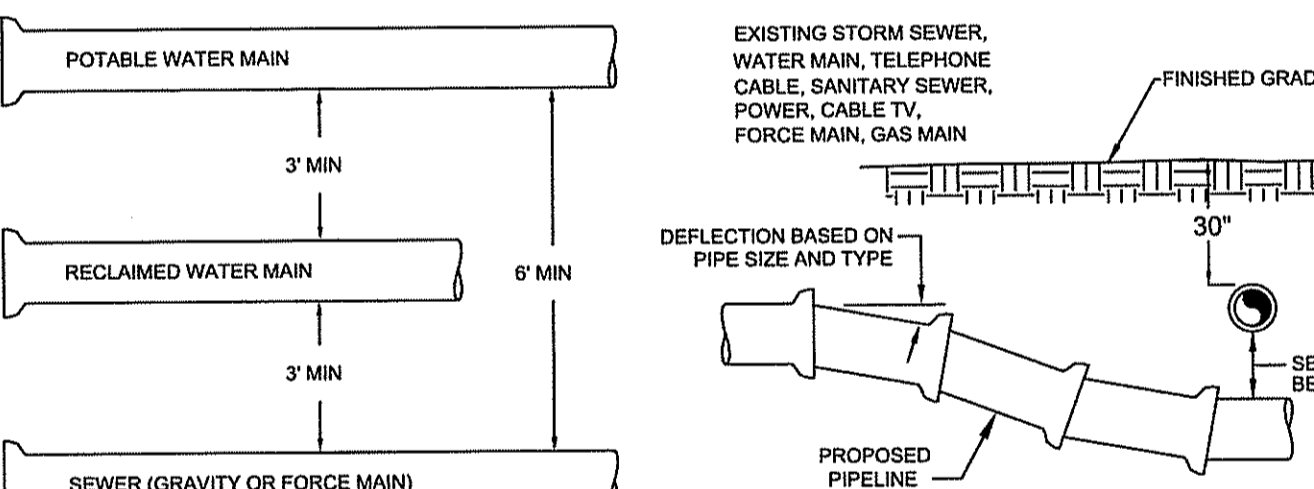
	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - GENERAL</b> <b>AUTO. COMBINATION AIR RELEASE VALVE</b>	DATE JAN 2023 SHEET NO. <b>U-2a</b>
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- EXISTING MAIN SHALL NOT BE TAPPED UNTIL THE ASSEMBLED SLEEVE AND VALVE ARE TESTED IN PLACE AT A MINIMUM OF 150 PSI FOR THIRTY MINUTES.
- UPON SUCCESSFUL TAPPING SLEEVE PRESSURE TEST (NOTE 1), THE THRUST BLOCK SHALL BE POURED AND HAVE SET FOR 24 HRS PRIOR TO TAPPING. READY-MADE THRUST BLOCKS CAN BE USED WITH CITY APPROVAL.
- STAINLESS STEEL TAPPING SLEEVE SHALL BE FORD. ALL HARDWARE SHALL BE 316 STAINLESS STEEL. GASKETS SHALL BE VIRGIN SSR COMPOUND.
- GATE VALVES SHALL BE RESILIENT WEDGE-TYPE MANUFACTURED BY MUELLER OR AMERICAN VALVE. ALL GATE VALVES SHALL BE FUSION BONDED EPOXY COATED (INTERIOR AND EXTERIOR) MEET ANSHAWWA C550, AND BE NSF61 CERTIFIED.
- TAPPING SLEEVES MAY ONLY BE USED WHEN THE TAP DIAMETER IS AT LEAST ONE PIPE SIZE SMALLER THAN THE DIAMETER OF THE MAIN BEING TAPPED. TRANSMISSION MAINS SHALL NOT BE TAPPED WITH A TAP LESS THAN 4" IN DIAMETER.
- TAPPING/SERVICE SADDLES MAY BE USED FOR TAPS UP TO AND INCLUDING 2" DIAMETER.
- ALL TAPS SHALL BE WHOLE NUMBER NOMINAL SIZES, INCLUDING 1", 2", 4", ETC.
- VALVE BOX ALIGNMENT DEVICE SHALL BE INSTALLED IN ACCORDANCE WITH W-1 ON ALL VALVES ABOVE 1".

**TAPPING SLEEVE & VALVE DETAIL**  
N.T.S.

	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - GENERAL</b> <b>TAPPING SLEEVE &amp; VALVE</b>	DATE JAN 2023 SHEET NO. <b>U-3</b>
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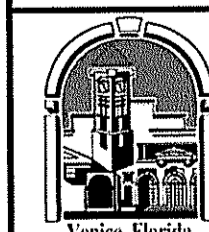
POTABLE WATER MAIN  
3' MIN  
RECLAIMED WATER MAIN  
6' MIN  
SEWER (GRAVITY OR FORCE MAIN)  
3' MIN

EXISTING STORM SEWER, WATER MAIN, TELEPHONE CABLE, SANITARY SEWER, POWER, CABLE TV, FORCE MAIN, GAS MAIN  
FINISHED GRADE  
30°  
DEFLECTION BASED ON PIPE SIZE AND TYPE  
PROPOSED PIPELINE  
SEE TABLE BELOW

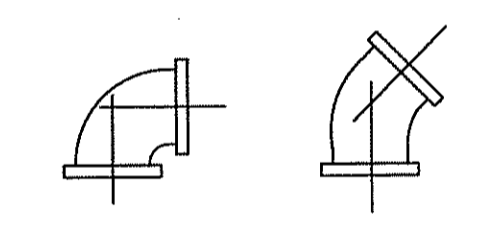
MINIMUM HORIZONTAL SEPARATION DISTANCES (FT)					MINIMUM VERTICAL SEPARATION DISTANCES (IN)							
	WATER MAIN	FORCE MAIN	SANITARY SEWER	REUSE WATER	STORM WATER	OTHER UTILITIES (TELEPHONE CABLE, ETC.)	WATER MAIN	FORCE MAIN	SANITARY SEWER	REUSE WATER	STORM WATER	OTHER UTILITIES (TELEPHONE CABLE, ETC.)
WATER MAIN	3	6	3	3	3	3	6	12	6	6	6	6
FORCE MAIN	6	3	3	3	3	3	12	6	6	6	6	6
SANITARY SEWER	6	3	3	3	3	3	12	6	6	6	6	6
REUSE MAIN	3	3	3	3	3	3	6	6	6	6	6	6
STORM WATER	3	3	3	3	3	3	6	6	6	6	6	6
OTHER UTILITIES	3	3	3	3	3	3	6	6	6	6	6	6

- MAXIMUM JOINT DEFLECTION SHALL BE 90% OF MANUFACTURER'S RECOMMENDATION.
- WHENEVER POSSIBLE, THE LAYOUT OF UTILITIES SHALL PLACE SANITARY SEWER AND SEWER FORCE MAINS BELOW RECLAIMED MAINS AND BELOW WATER MAINS, RESPECTIVELY. WHERE WATER MAINS ARE ABOVE GRAVITY SEWERS OR WASTEWATER FORCE MAINS, A VERTICAL CLEARANCE OF 6 INCHES IS ACCEPTABLE. STORM SHALL BE PLACED BELOW BOTH WATER AND SEWER WHERE POSSIBLE.
- ACCEPTABLE VARIANCES:  
A. WHERE HORIZONTAL SEPARATION CANNOT BE MAINTAINED, C800 DR14 PVC PIPE SHALL BE USED FOR ONE OF THE PIPELINES.  
B. WHERE VERTICAL CLEARANCE CANNOT BE MAINTAINED, ONE FULL LENGTH OF DR14 C800 PIPE SHALL BE INSTALLED CENTERED AT THE POINT OF CROSSING.  
C. WHERE 36" MINIMUM DEPTH OF COVER CANNOT BE MAINTAINED, SPECIAL PROTECTION OR PIPE MATERIAL UPGRADE MAY BE REQUIRED, AT THE DISCRETION OF THE UTILITY DEPARTMENT.
- NO UTILITY PIPE SHALL PASS THROUGH, OR COME IN CONTACT WITH ANY PART OF A SANITARY MANHOLE OR STORMWATER STRUCTURE WITHOUT APPROVAL FROM THE UTILITIES DIRECTOR OR CITY ENGINEER.

**UTILITY CONFLICT & SEPARATION DETAIL**  
N.T.S.

	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - GENERAL</b> <b>UTILITY CONFLICTS &amp; SEPARATIONS</b>	DATE JAN 2023 SHEET NO. <b>U-5</b>
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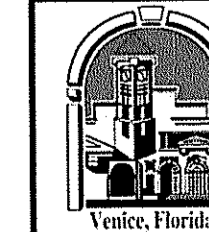
ALL PIPE FITTINGS SHALL BE COMPACT, DUCTILE IRON.  
ALL APPLICATIONS (RAW, POTABLE, REUSE, SEWER) SHALL BE FUSION BONDED EPOXY COATED INSIDE AND OUT.  
ALL FITTINGS SHALL MEET ANSII/AWWA C116/A21.16 STANDARDS.  
ALL HARDWARE SHALL BE 316 SS.  
ALL FITTINGS FOR SANITARY SEWER SHALL BE HEAVY WALL SDR 26 PVC.



**PIPE FITTINGS**  
N.T.S.

SERVICE	COLOR	MATERIAL/CLASS
POTABLE WATER MAIN	BLUE	AWWA C900 PVC / DR 18
RAW WATER MAIN	WHITE	FUSIBLE C900 PVC / DR 18
REUSE MAIN	PURPLE	CERT-A-LOK C900 PVC / DR 18
FORCE MAIN (MIN. 4" DIAMETER)	GREEN	HDPE PPI PE 4710 / DR 11 / DIPPS (WITH UTILITIES DEPARTMENT APPROVAL)
WATER SERVICE	BLUE	PE (POLYTUBING) / DR 9
REUSE SERVICE	PURPLE	PE (POLYTUBING) / DR 9
GRAVITY SEWER MAIN (MIN. 6" DIAMETER)	GREEN	ASTMD3034 / SDR 26
SEWER LATERAL (MIN. 6" DIAMETER)	GREEN	ASTMD3034 / SDR 26

**PIPE MATERIAL SCHEDULE**  
N.T.S.

	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - GENERAL</b> <b>PIPE FITTINGS &amp; MATERIAL</b>	DATE JAN 2023 SHEET NO. <b>U-6</b>
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MINIMUM LENGTH (FT) OF FORCE MAIN TO BE RESTRAINED ON EACH SIDE OF FITTING

FITTING	PIPE SIZE (INCHES)								
	4	6	8	10	12	16	18	20	24
45 BEND: H	6	9	12	14	16	21	23	25	29
VU	4	6	7	9	10	13	15	16	19
VD	12	20	26	32	37	48	53	28	68
22.5 BEND: H	3	4	6	7	8	10	11	12	14
VU	2	3	4	4	5	6	7	8	9
VD	7	10	13	15	18	23	26	28	33
11.25 BEND: H	2	2	3	3	4	5	5	6	7

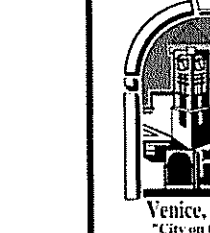
MINIMUM LENGTH (FT) OF WATER OR REUSE MAIN TO BE RESTRAINED ON EACH SIDE OF FITTING

FITTING	PIPE SIZE (INCHES)								
	4	6	8	10	12	16	18	20	24
90 BEND: H	23	33	43	51	60	76	83	90	104
45 BEND: H	10	14	18	21	25	31	34	37	43
VU	6	8	11	13	16	20	22	24	28
VD	22	30	40	48	56	72	80	87	102
22.5 BEND: H	5	7	8	10	12	15	17	18	21
VU	3	4	5	6	7	10	11	12	14
VD	10	15	19	23	27	35	38	42	49
11.25 BEND: H	2	3	4	5	6	7	8	9	10

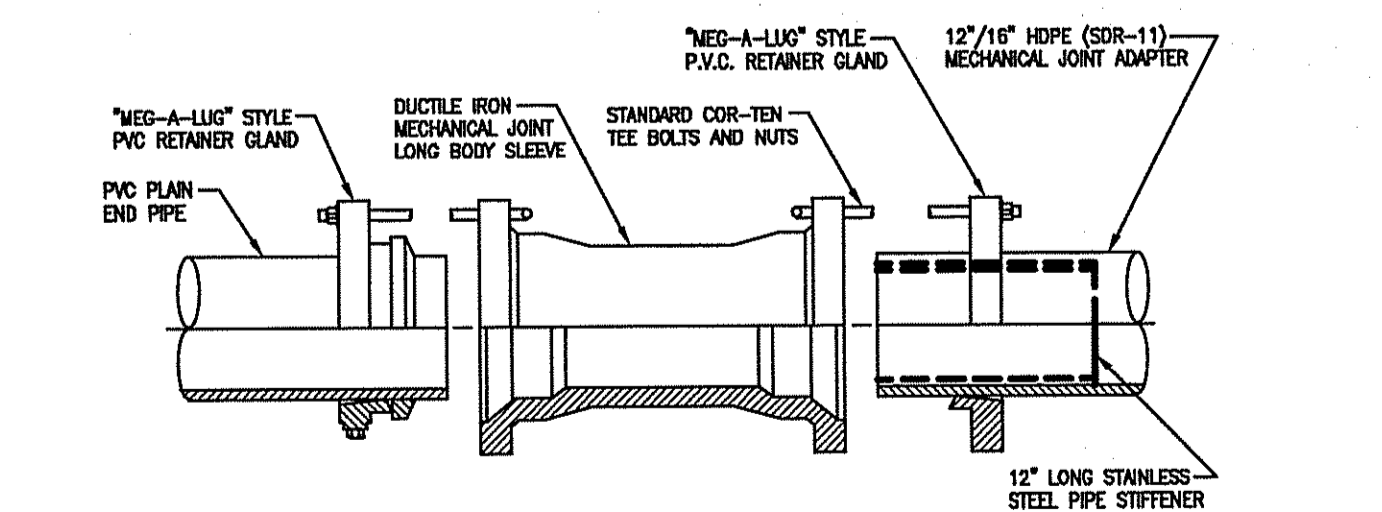
VALVES/PLUGS: 52 73 96 115 136 174 193 211 246  
ABBREVIATIONS: H=HORIZONTAL, VU=VERTICAL UP, VD=VERTICAL DOWN.

- FOR TEE OR REDUCER FITTINGS SUBMIT RESTRAINED JOINT LENGTH CALCULATIONS TO CITY ENGINEER FOR REVIEW AND APPROVAL, USING THE ASSUMPTIONS LISTED ABOVE.
- RESTRAINED JOINT LENGTH FOR WATER AND REUSE MAINS BASED ON TEST PRESSURE OF 150 PSI. RESTRAINED JOINT LENGTH FOR FORCE (SEWER) MAINS BASED ON TEST PRESSURE OF 100 PSI. CALCULATIONS WERE MADE USING EBAA IRON SOFTWARE (AVAILABLE AT WWW.EBAA.COM) AND THE FOLLOWING ASSUMPTIONS: GRANULAR MATERIAL (GM) SOIL TYPE, TRENCH TYPE 3, BURY DEPTH OF 3 FT, AND SAFETY FACTOR OF 2 TO 1. IF FIELD CONDITIONS DIFFER FROM ABOVE ASSUMPTIONS OR SHALL PROVIDE CALCULATIONS BASED ON ACTUAL CONDITIONS.
- RESTRAINED JOINT SHALL BE USED ON ALL JOINTS FROM ANY MAIN TEE TO ANY FIRE HYDRANT ASSEMBLY.
- THRUST BLOCKS WILL NOT BE ACCEPTED, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- ALL HARDWARE SHALL BE 316 SS.

**PRESSURE MAIN RESTRAINED JOINT TABLE**  
N.T.S.

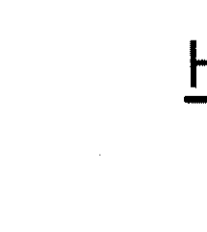
	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - GENERAL</b> <b>RESTRAINED JOINT TABLE</b>	DATE JAN 2023 SHEET NO. <b>U-7</b>
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**RECORD DRAWINGS**  
November 27, 2023  
**APPROVED**



**H.D.P.E. TO P.V.C. TRANSITION DETAIL**  
N.T.S.

**RECORD DRAWING**

	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - GENERAL</b> <b>RECORD DRAWING</b>	DATE JAN 2023 SHEET NO. <b>U-7</b>
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NO.	BY	DATE	DESCRIPTION	NO.	BY	DATE	DESCRIPTION
1	PN	11/05/20	DETAILS UPDATED PER COV REVIEW COMMENTS DATED 10/12/20				

DESIGN: NICKOLS 12/07/18  
BRWN: NICKOLS 12/10/18  
CHECKED: HISSMAN  
QUALITY CHR: --  
SCALE: --

PREPARED FOR: **HATCHETT CREEK ASSOCIATES, LLC**  
101 EAST MAIN STREET, SUITE 500  
MT. HOREB, WISCONSIN 53572  
(608) 437-8301

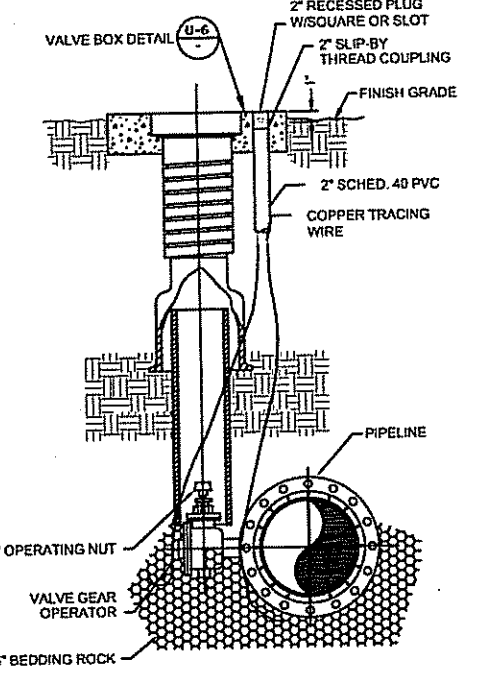
**George F. Young, Inc.**  
299 DR. MARTIN LUTHER KING JR. STREET, N. ST. PETERSBURG, FLORIDA 33701  
PHONE (727) 822-4317 FAX (727) 822-2919 WWW.GEORGEYOUNG.COM  
ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21  
CIVIL & TRANSPORTATION ENGINEERING | GEOLOGY | GIS | LANDSCAPE ARCHITECTURE  
PLANNING | SURVEYING | SUBSURFACE UTILITY ENGINEERING  
GAINESVILLE • LAKEWOOD RANCH • ORLANDO • ST. PETERSBURG • TAMPA

MARK MILLER, PE No. 379799  
DATE 1/27/2023  
VENICE, FLORIDA

**WATERFRONT ON HATCHETT CREEK**  
GENERAL UTILITY DETAILS  
SECTION 9, TOWNSHIP 39S., RANGE 19E.

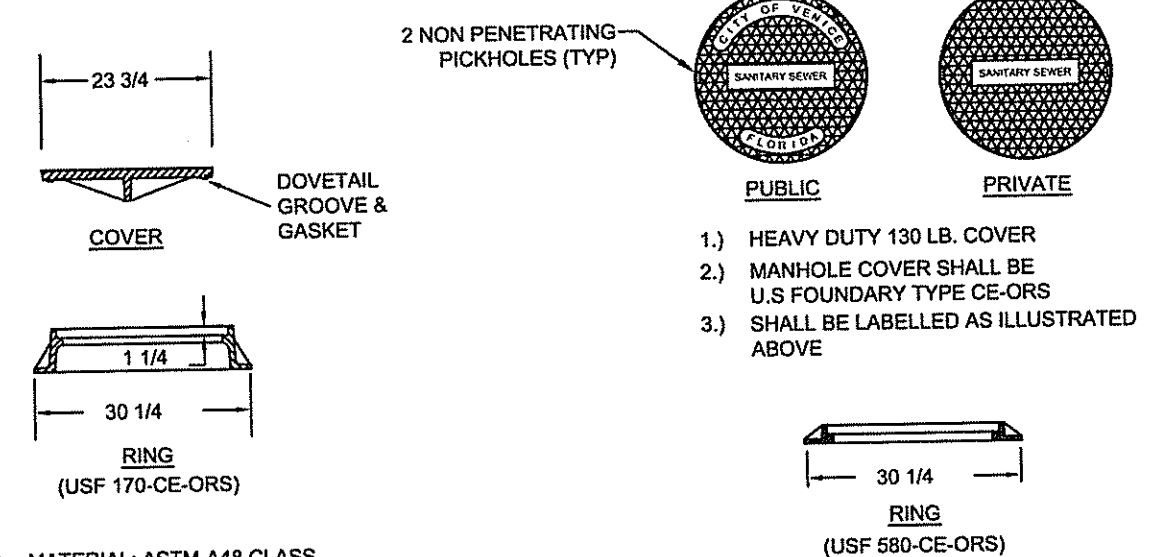
JOB NO. 18000600LC  
SHEET NO. C31





**PLUG VALVE DETAIL**  
(SEWER FORCE MAINS ONLY)  
N.T.S.

- 1.) PLUG VALVES SHALL BE FULL PORT, MANUFACTURED BY DEZURK OR APPROVED EQUAL.
- 2.) SEAT OF PLUG VALVE SHALL BE ON THE UPSTREAM SIDE OF THE BODY.
- 3.) VALVE SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 4.) ALL SEWER FORCE MAIN PLUG VALVES SHALL BE GEAR OPERATED.

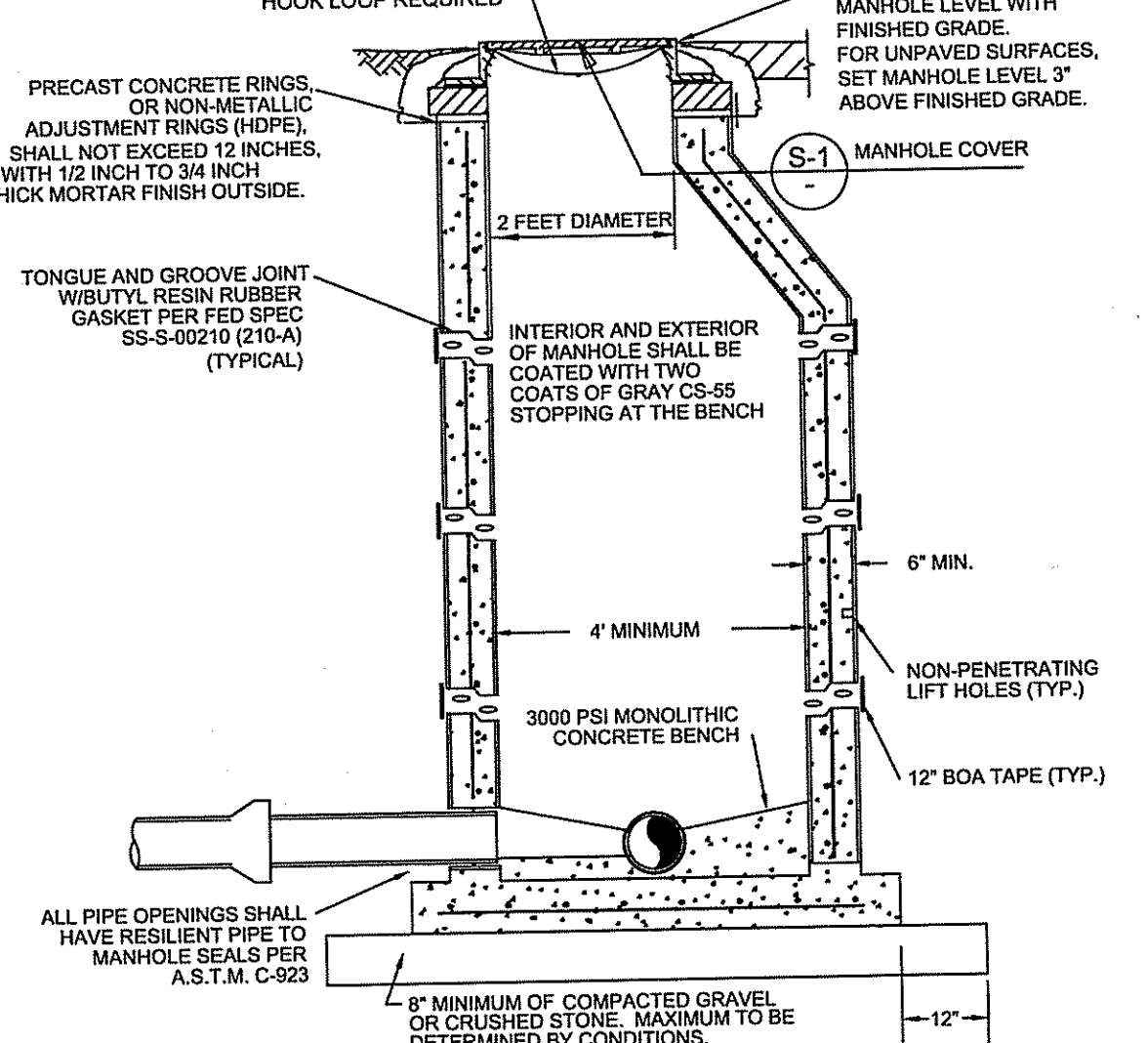


**TYPICAL COVER**  
**LOW PROFILE COVER**

- 1.) MATERIAL: ASTM-A48 CLASS 30B GRAY IRON
- 2.) RING WT: 155 LBS. APP.
- 3.) COVER WT: 150 LBS. APP.
- 4.) INFLOW DISH REQUIRED

**MANHOLE COVERS DETAIL**  
(ALL UNITS IN INCHES)  
N.T.S.

<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - SEWER</b> <b>PLUG VALVE &amp; MANHOLE COVERS</b>	DATE JAN 2023 SHEET NO. <b>S-1</b>
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**SANITARY SEWER MANHOLE DETAIL**  
N.T.S.

INFLOW DISH WITH HOOK LOOP REQUIRED

FOR PAVED SURFACES, SET MANHOLE LEVEL WITH FINISHED GRADE. FOR UNPAVED SURFACES, SET MANHOLE LEVEL 3" ABOVE FINISHED GRADE.

PRECAST CONCRETE RINGS, OR NON-METALLIC ADJUSTMENT RINGS (HDP), SHALL NOT EXCEED 12 INCHES, WITH 1/2 INCH TO 3/4 INCH THICK MORTAR FINISH OUTSIDE.

TONGUE AND GROOVE JOINT W/ BUTYL RESIN RUBBER GASKET PER FED SPEC SS-S-00210 (210-A) (TYPICAL)

2 FEET DIAMETER

MANHOLE COVER

6" MIN.

4" MINIMUM

NON-PENETRATING LIFT HOLES (TYP.)

12" BOA TAPE (TYP.)

3000 PSI MONOLITHIC CONCRETE BENCH

8" MINIMUM OF COMPACTED GRAVEL OR CRUSHED STONE, MAXIMUM TO BE DETERMINED BY CONDITIONS.

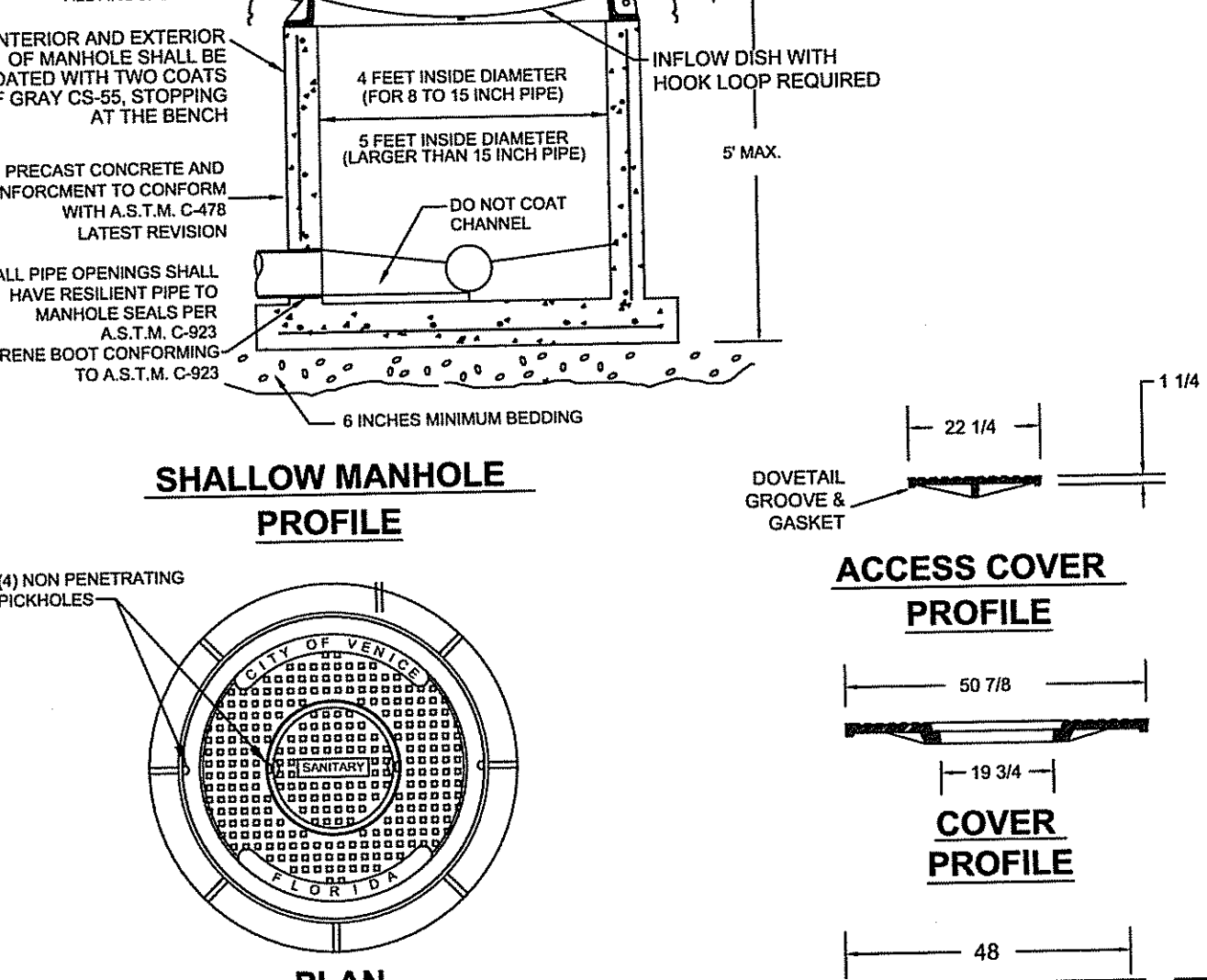
ALL PIPE OPENINGS SHALL HAVE RESILIENT PIPE TO MANHOLE SEALS PER A.S.T.M. C-923

NOTES:

- 1.) MANHOLE SHALL CONFORM TO A.S.T.M. C-478 LATEST REVISION TYPE II CONCRETE, 4000 P.S.I. 28 DAY COMPRESSIVE STRENGTH
- 2.) TURBULENT MANHOLES, DROP MANHOLES, LIFT STATION ISOLATION MANHOLES, AND ALL MANHOLES RECEIVING FORCE MAINS SHALL BE LINED WITH RAVEN COAT 405 EPOXY. STRUCTURAL CONDITIONS DICTATE, A CONCENTRIC CONE MAY BE USED IN LIEU OF AN ECCENTRIC CONE.
- 3.) ECCENTRIC CONE MANHOLES SHALL BE USED WHENEVER POSSIBLE, WHERE INTERCEPTING FORCE MAINS SHALL BE LINED WITH RAVEN 405.
- 4.) FOR MANHOLES LESS THAN 5 FEET IN DEPTH, A SHALLOW MANHOLE (S-3) SHALL BE USED.
- 5.) MONOLITHIC, DUCTILE IRON ADJUSTMENT RINGS MAY ONLY BE USED FOR SURFACE OVERLAY PROJECTS, NOT FOR NEW CONSTRUCTION.
- 6.) INFLOW DISH SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR.

**SANITARY SEWER MANHOLE**

<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - SEWER</b> <b>SANITARY SEWER MANHOLE</b>	DATE JAN 2023 SHEET NO. <b>S-2</b>
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**PRECAST SHALLOW MANHOLE DETAIL**  
N.T.S.

ENCASE RIBS IN CONCRETE COLLAR ALL AROUND

FINISH GRADE

INFLOW DISH WITH HOOK LOOP REQUIRED

4 FEET INSIDE DIAMETER (FOR 8 TO 15 INCH PIPE)

5 FEET INSIDE DIAMETER (LARGER THAN 16 INCH PIPE)

DO NOT COAT CHANNEL

PRECAST CONCRETE AND REINFORCEMENT TO CONFORM WITH A.S.T.M. C-478 LATEST REVISION

ALL PIPE OPENINGS SHALL HAVE RESILIENT PIPE TO MANHOLE SEALS PER A.S.T.M. C-923

NEOPRENE BOOT CONFORMING TO A.S.T.M. C-923

6 INCHES MINIMUM BEDDING

22 1/4

1 1/4

DOVETAIL GROOVE & GASKET

**SHALLOW MANHOLE PROFILE**

**ACCESS COVER PROFILE**

**COVER PROFILE**

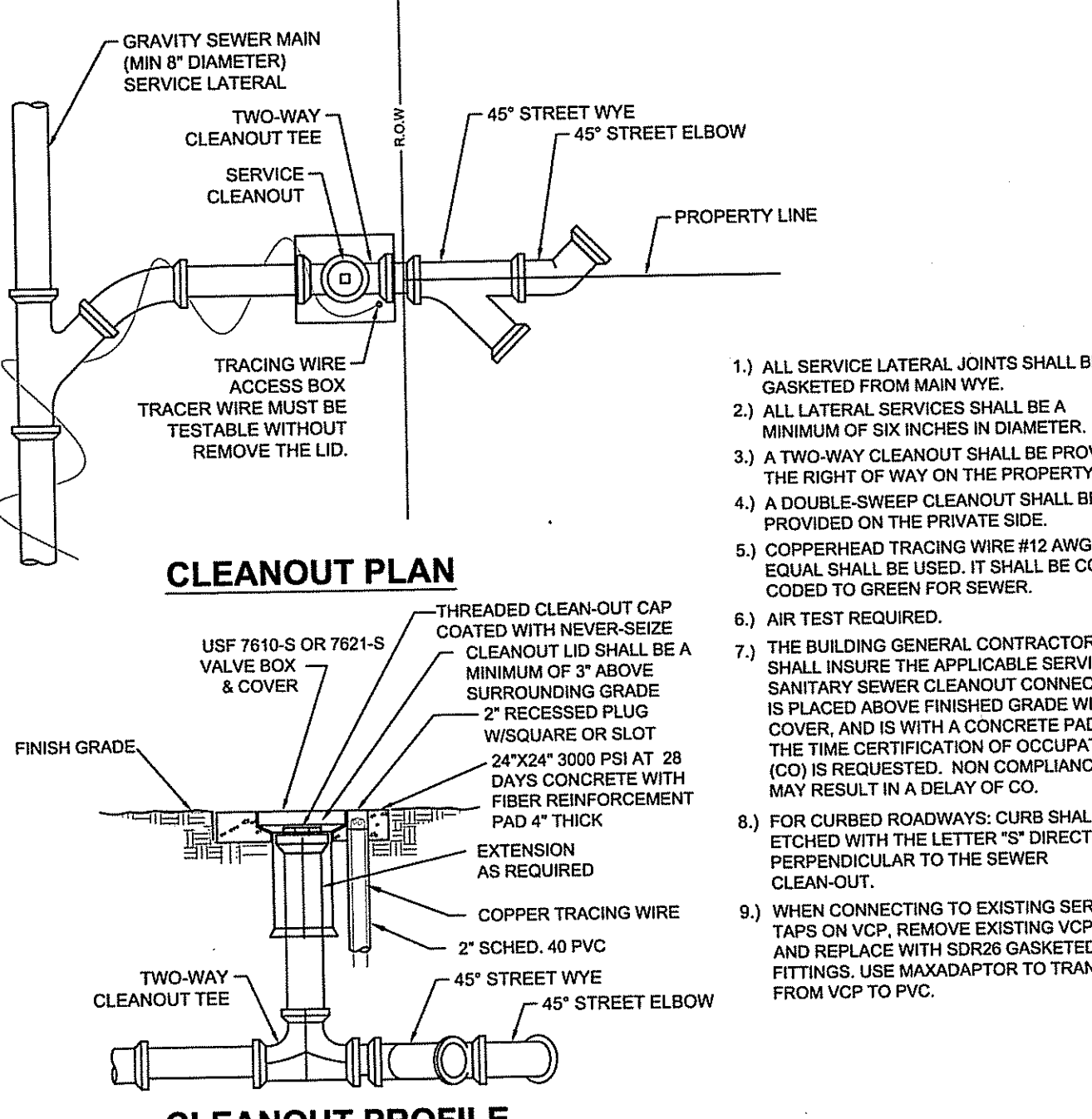
**RING PROFILE**

NOTES:

- 1.) SHALLOW MANHOLE SHALL BE INSTALLED WHEREVER THE BASE OF THE MANHOLE IS LESS THAN 4 FEET BELOW THE FINISHED GRADE
- 2.) MANHOLE SHALL CONFORM TO A.S.T.M. C-478 LATEST REVISION TYPE II CONCRETE, 4000 P.S.I. 28 DAY COMPRESSIVE STRENGTH
- 3.) INTERCEPTOR MANHOLES, DROP MANHOLES, AND MANHOLES WITH INTERCEPTING FORCE MAINS SHALL BE LINED WITH RAVEN 405.
- 4.) ALL JOINTS SHALL BE WRAPPED WITH 12" BOA TAPE.
- 5.) INFLOW DISH SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR.
- 6.) COVER SPECIFICATIONS:  
MATERIAL: ASTM-A48 CLASS 30B GRAY IRON.  
RING WT: 700 LBS. APP. (USF 690-AG-M)  
OUTER COVER WT: 670 LBS. APP.  
INNER COVER WT: 105 LBS. APP.

**PRECAST SHALLOW MANHOLE**

<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - SEWER</b> <b>PRECAST SHALLOW MANHOLE</b>	DATE JAN 2023 SHEET NO. <b>S-3</b>
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**SANITARY SEWER SERVICE & CLEANOUT DETAIL**  
N.T.S.

GRAVITY SEWER MAIN (MIN 8" DIAMETER) SERVICE LATERAL

TWO-WAY CLEANOUT TEE

45" STREET WYE

45" STREET ELBOW

PROPERTY LINE

TRACING WIRE ACCESS BOX

TRACER WIRE MUST BE TESTABLE WITHOUT REMOVE THE LID.

**CLEANOUT PLAN**

FINISH GRADE

THREADED CLEAN-OUT CAP COATED WITH NEVER-SEIZE

CLEANOUT LID SHALL BE A MINIMUM OF 3" ABOVE SURROUNDING GRADE

2" RECESSED PLUG W/SQUARE OR SLOT

24"X24" 3000 PSI AT 28 DAYS CONCRETE WITH FIBER REINFORCEMENT PAD 4" THICK

EXTENSION AS REQUIRED

COPPER TRACING WIRE

2" SCHED. 40 PVC

45" STREET WYE

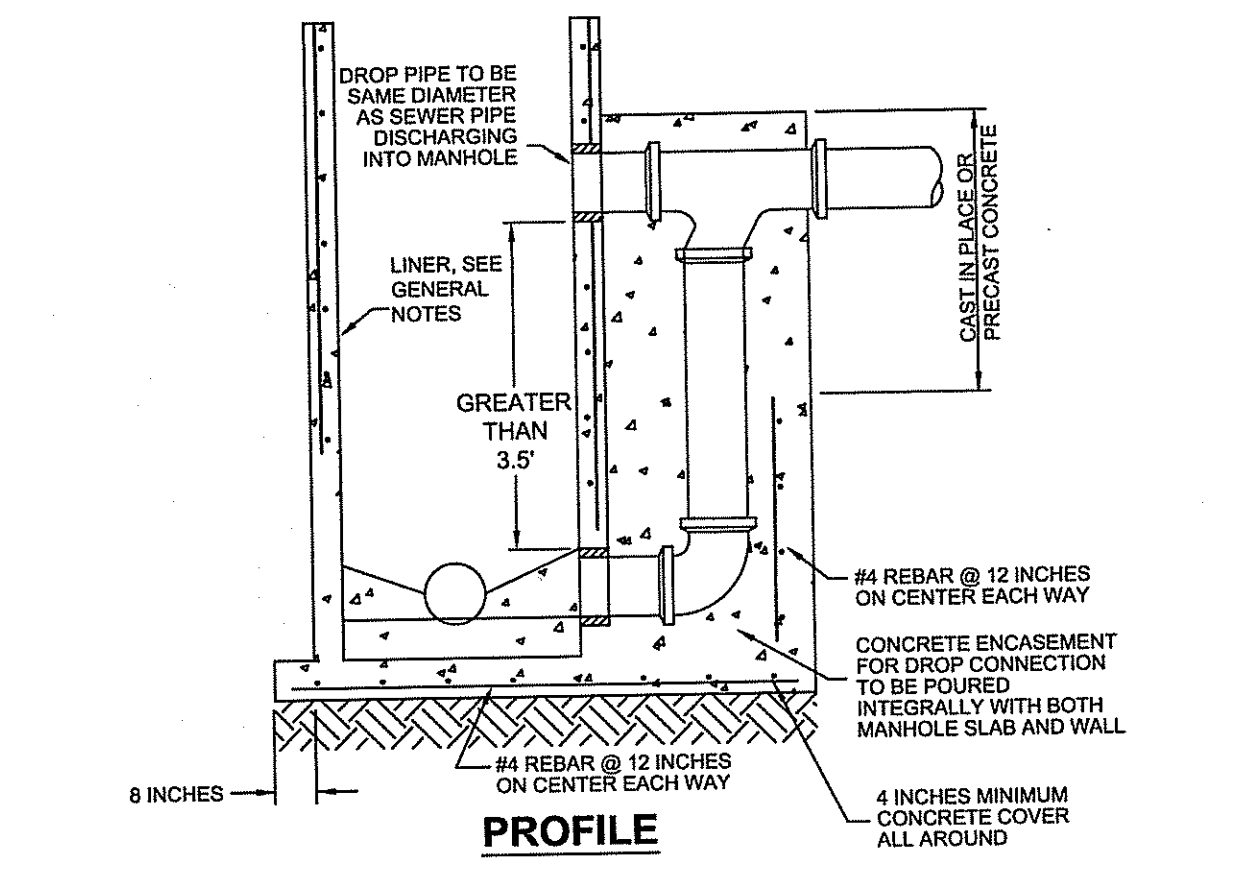
45" STREET ELBOW

**CLEANOUT PROFILE**

- 1.) ALL SERVICE LATERAL JOINTS SHALL BE GASKETED FROM MAIN WYE.
- 2.) ALL LATERAL SERVICES SHALL BE A MINIMUM OF SIX INCHES IN DIAMETER.
- 3.) A TWO-WAY CLEANOUT SHALL BE PROVIDED AT THE RIGHT OF WAY ON THE PROPERTY LINE.
- 4.) A DOUBLE-SWEEP CLEANOUT SHALL BE PROVIDED ON THE PRIVATE SIDE.
- 5.) COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO GREEN FOR SEWER.
- 6.) AIR TEST REQUIRED.
- 7.) THE BUILDING GENERAL CONTRACTOR SHALL INSURE THE APPLICABLE SERVING SANITARY SEWER CLEANOUT CONNECTION IS PLACED ABOVE FINISHED GRADE WITH COVER, AND IS WITH A CONCRETE PAD AT THE TIME CERTIFICATION OF OCCUPATION (CO) IS REQUESTED. NON COMPLIANCE MAY RESULT IN A DELAY OF CO.
- 8.) FOR CURBED ROADWAYS, CURB SHALL BE ETCHED WITH THE LETTER "S" DIRECTLY PERPENDICULAR TO THE SEWER CLEAN-OUT.
- 9.) WHEN CONNECTING TO EXISTING SERVICE TAPS ON VCP, REMOVE EXISTING VCP WYE AND REPLACE WITH SDR26 GASKETED FITTINGS. USE MAX ADAPTOR TO TRANSITION FROM VCP TO PVC.

**SANITARY SEWER SERVICE & CLEANOUT**

<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - SEWER</b> <b>SEWER SERVICE &amp; CLEANOUT</b>	DATE JAN 2023 SHEET NO. <b>S-4</b>
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**SANITARY SEWER DROP MANHOLE**  
N.T.S.

DROP PIPE TO BE SAME DIAMETER AS SEWER PIPE DISCHARGING INTO MANHOLE

LINEAR, SEE GENERAL NOTES

GREATER THAN 3.5'

CONCRETE ENCASUREMENT FOR DROP CONNECTION TO BE POURED INTEGRALLY WITH BOTH MANHOLE SLAB AND WALL

8 INCHES

4" REBAR @ 12 INCHES ON CENTER EACH WAY

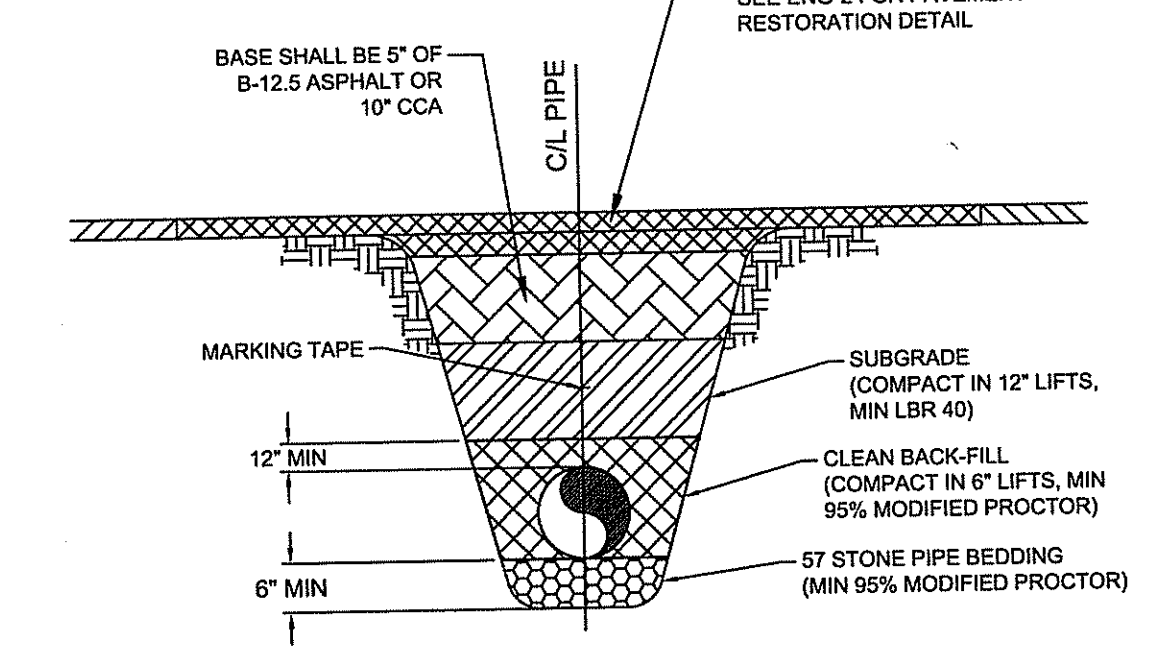
4 INCHES MINIMUM CONCRETE COVER ALL AROUND

NOTES:

- 1.) MANHOLE SHALL CONFORM TO A.S.T.M. C-478 LATEST REVISION TYPE II CONCRETE, 4000 P.S.I. 28 DAY COMPRESSIVE STRENGTH
- 2.) TURBULENT MANHOLES, DROP MANHOLES, LIFT STATION ISOLATION MANHOLES, AND ALL MANHOLES RECEIVING FORCE MAINS SHALL BE LINED WITH RAVEN COAT 405 EPOXY.
- 3.) DROP MANHOLES SHALL NOT BE USED WITHOUT WRITTEN PERMISSION FROM THE UTILITY DEPARTMENT.

**SANITARY DROP MANHOLE**

<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - SEWER</b> <b>SANITARY DROP MANHOLE</b>	DATE JAN 2023 SHEET NO. <b>S-5</b>
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**SEWER PIPE TRENCH DETAIL**  
N.T.S.

SEE ENG-2 FOR PAVEMENT RESTORATION DETAIL

BASE SHALL BE 5" OF B-12.5 ASPHALT OR 10" CCA

CIL PIPE

MARKING TAPE

12" MIN

6" MIN

SUBGRADE (COMPACT IN 12" LIFTS, MIN LBR 40)

CLEAN BACK-FILL (COMPACT IN 6" LIFTS, MIN 95% MODIFIED PROCTOR)

57 STONE PIPE BEDDING (MIN 95% MODIFIED PROCTOR)

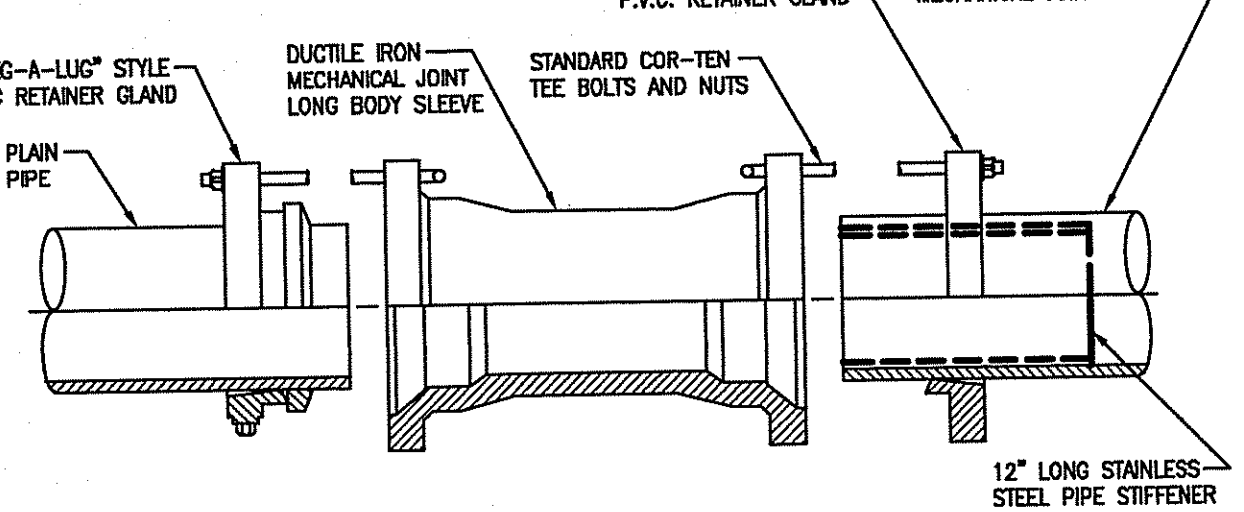
NOTES:

- 1.) COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE ATTACHED TO TOP OF PIPE AT 20' INTERVALS ON ALL SEWER MAINS. IT SHALL BE COLOR CODED GREEN FOR SEWER.
- 2.) MINIMUM COVER SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE.
- 3.) INSTALLATION OF PIPE SHALL BE IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 4.) PAVEMENT RESTORATION SHALL CONFORM WITH DETAIL ENG-2 OF THESE CITY STANDARDS. FOR NEW CONSTRUCTION, THE FIRST LIFT OF ASPHALT SHALL BE IN PLACE PRIOR TO RECORD DRAWING REVIEW.
- 5.) ALL UTILITIES (PUBLIC AND PRIVATE) THAT CROSS A DITCH / SWALE SHALL BE 36" MIN BELOW THE ACTUAL / DESIGN BOTTOM OF CONVEYANCE.
- 6.) MARKING TAPE SHALL BE PROVIDED PER U-1.

**SEWER PIPE TRENCH**

<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - SEWER</b> <b>SEWER PIPE TRENCH</b>	DATE JAN 2023 SHEET NO. <b>S-6</b>
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**RECORD DRAWINGS**  
**November 27, 2023**  
**APPROVED**



**H.D.P.E. TO P.V.C. TRANSITION DETAIL**  
N.T.S.

"MEC-A-LUG" STYLE PVC RETAINER GLAND

12"/16" HOPE (SDR-11) MECHANICAL JOINT ADAPTER

DUCTILE IRON MECHANICAL JOINT LONG BODY SLEEVE

STANDARD COR-TEN TEE BOLTS AND NUTS

PVC PLAIN END PIPE

12" LONG STAINLESS-STEEL PIPE STIFFENER

NO.	BY	DATE	DESCRIPTION
1	PN	11/05/20	DETAILS UPDATED PER COV REVIEW COMMENTS DATED 10/12/20

NO.	BY	DATE	DESCRIPTION

PREPARED FOR: **HATCHETT CREEK ASSOCIATES, LLC**  
101 EAST MAIN STREET, SUITE 500  
MT. HOREB, WISCONSIN 53572  
(608) 437-8301

**George F. Young, Inc.**  
299 DR. MARTIN LUTHER KING JR. STREET, N. ST. PETERSBURG, FLORIDA 33701  
PHONE (727) 822-4317 FAX (727) 822-2919 WWW.GEORGEYOUNG.COM  
ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21  
CIVIL & TRANSPORTATION ENGINEERING/ECOLOGICAL LANDSCAPE ARCHITECTURE  
PLANNING/SURVEYING/SUBSURFACE UTILITY ENGINEERING  
GAINESVILLE \* LAKEWOOD RANCH \* ORLANDO \* ST. PETERSBURG \* TAMPA

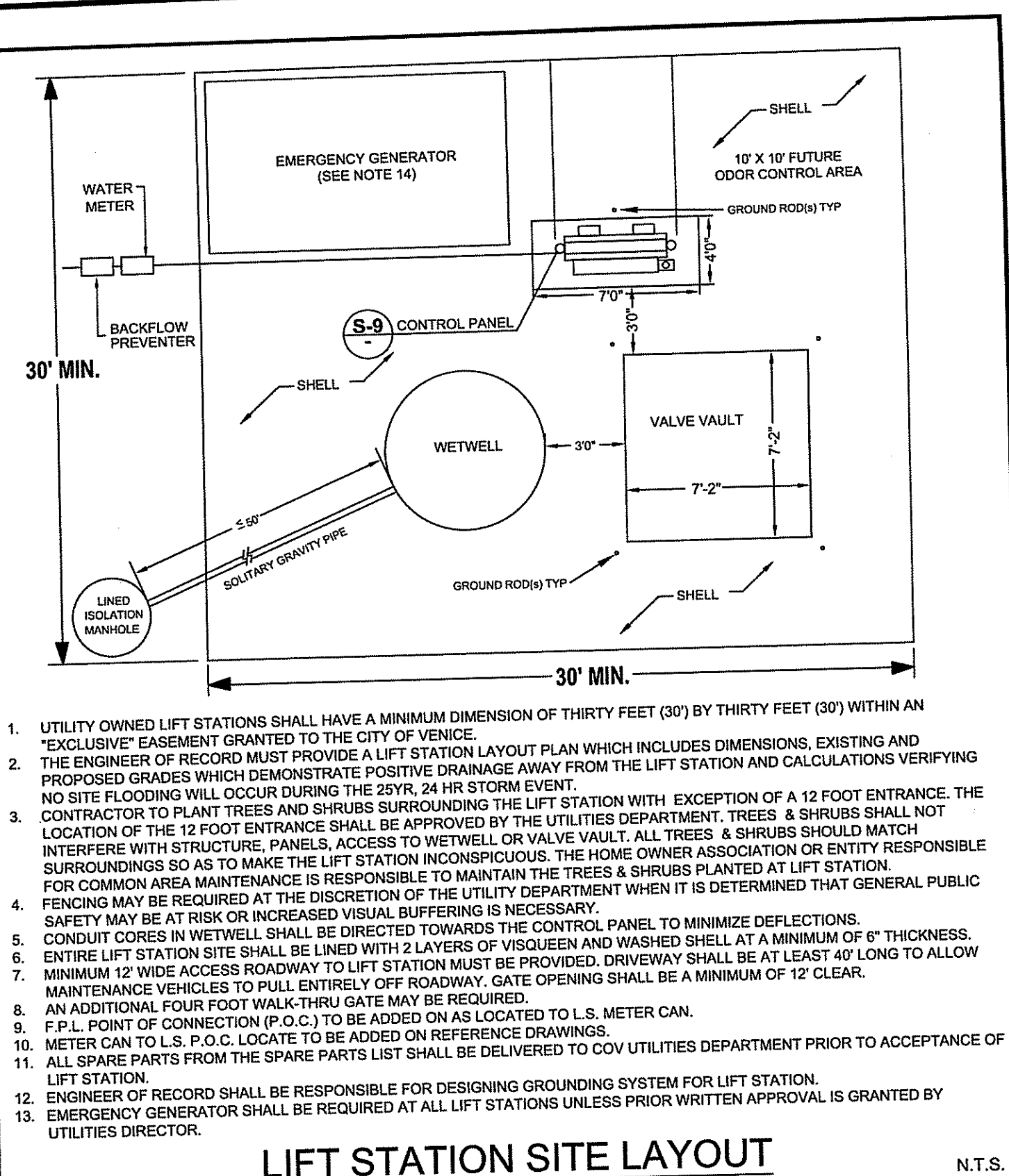
**RECORD DRAWING**  
**WATERFRONT ON HATCHETT CREEK**  
**SANITARY SEWER DETAILS**  
SECTION 9, TOWNSHIP 39S., RANGE 19E.

JOB NO.  
18000600LC

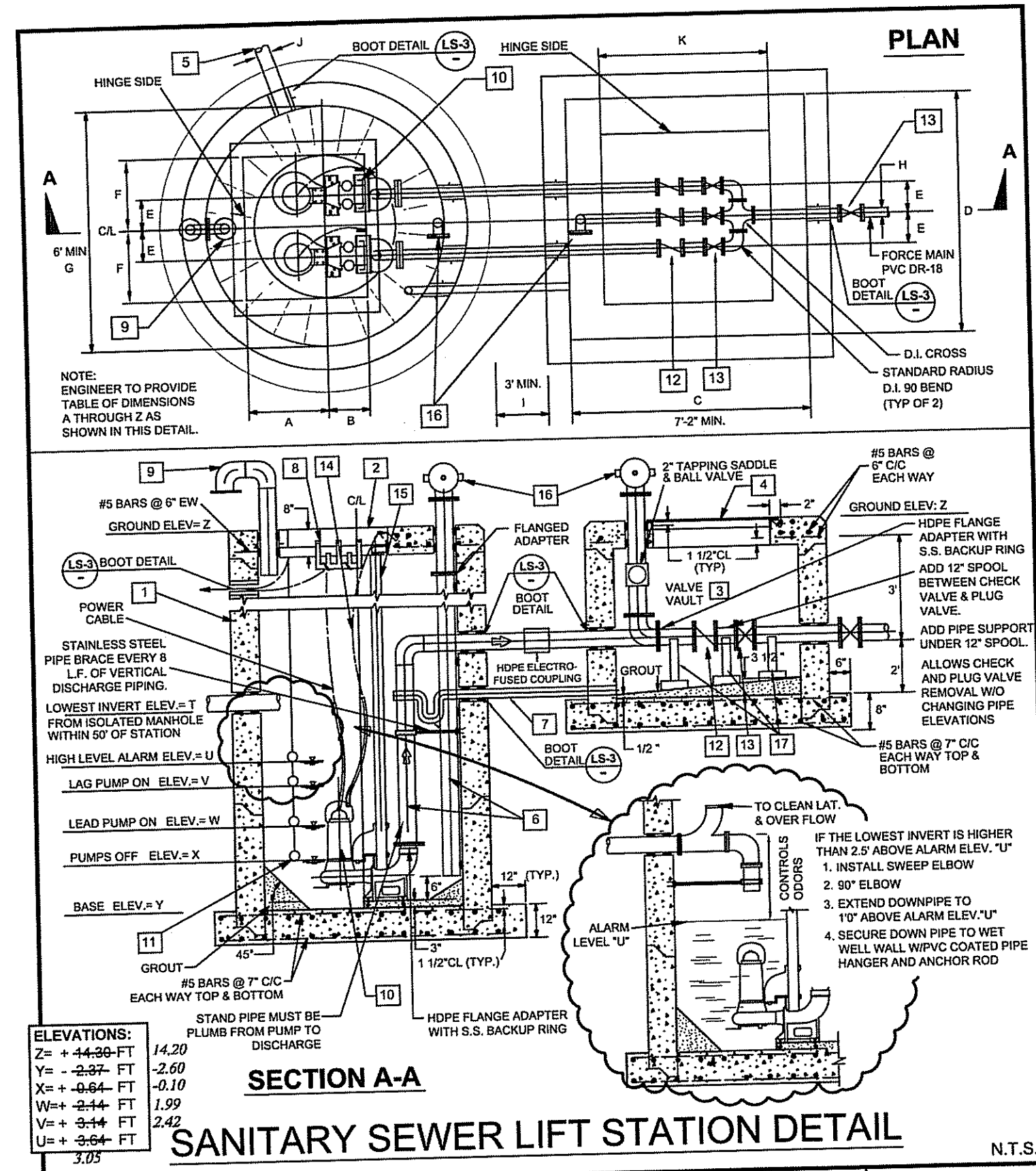
SHEET NO.  
**C32**

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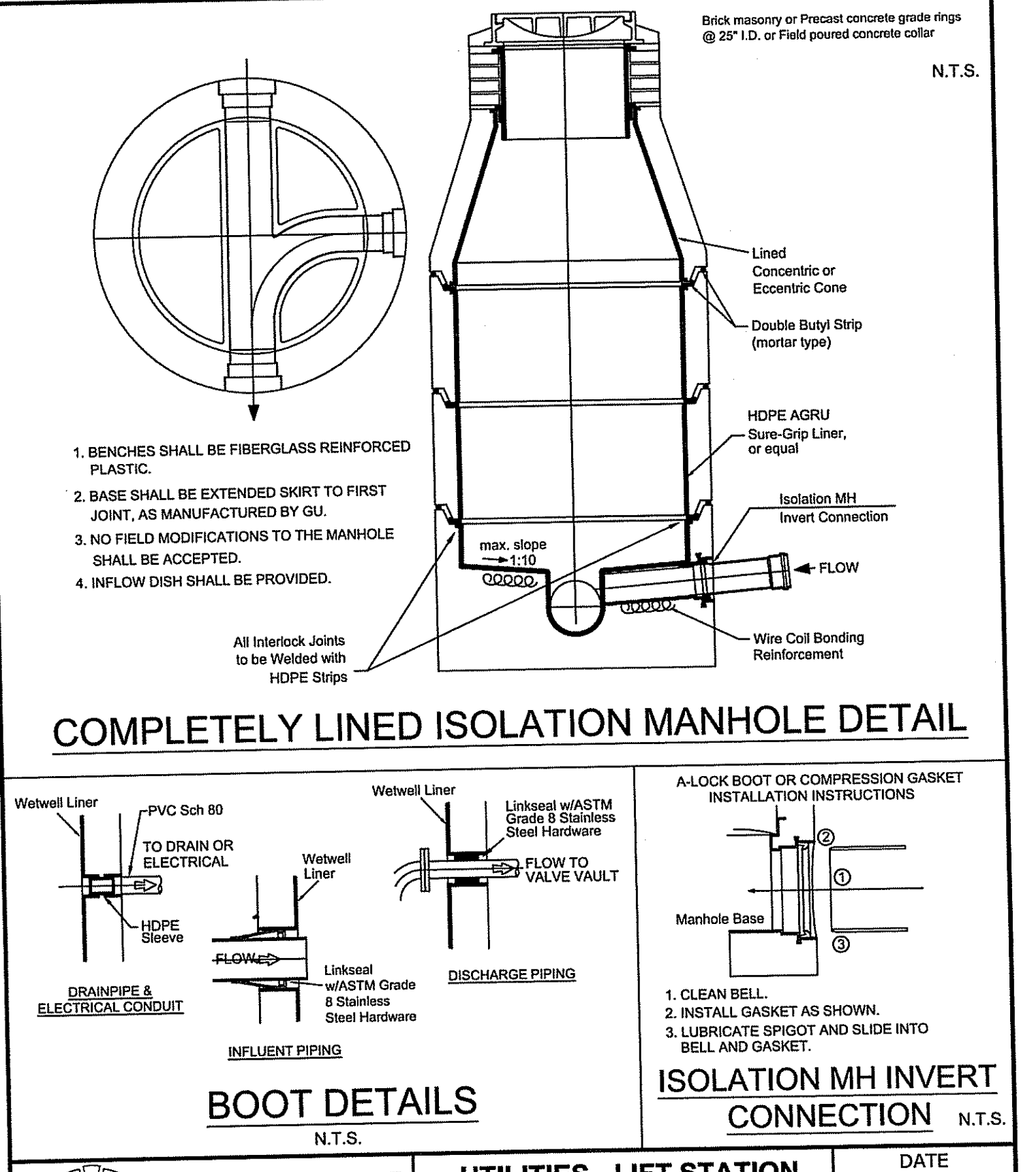




	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - LIFT STATION</b>	DATE JAN 2023
		<b>LIFT STATION</b>	SHEET NO. LS-1
		<b>SITE LAYOUT</b>	



	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - LIFT STATION</b>	DATE JAN 2023
		<b>LIFT STATION</b>	SHEET NO. LS-2
		<b>DETAIL</b>	



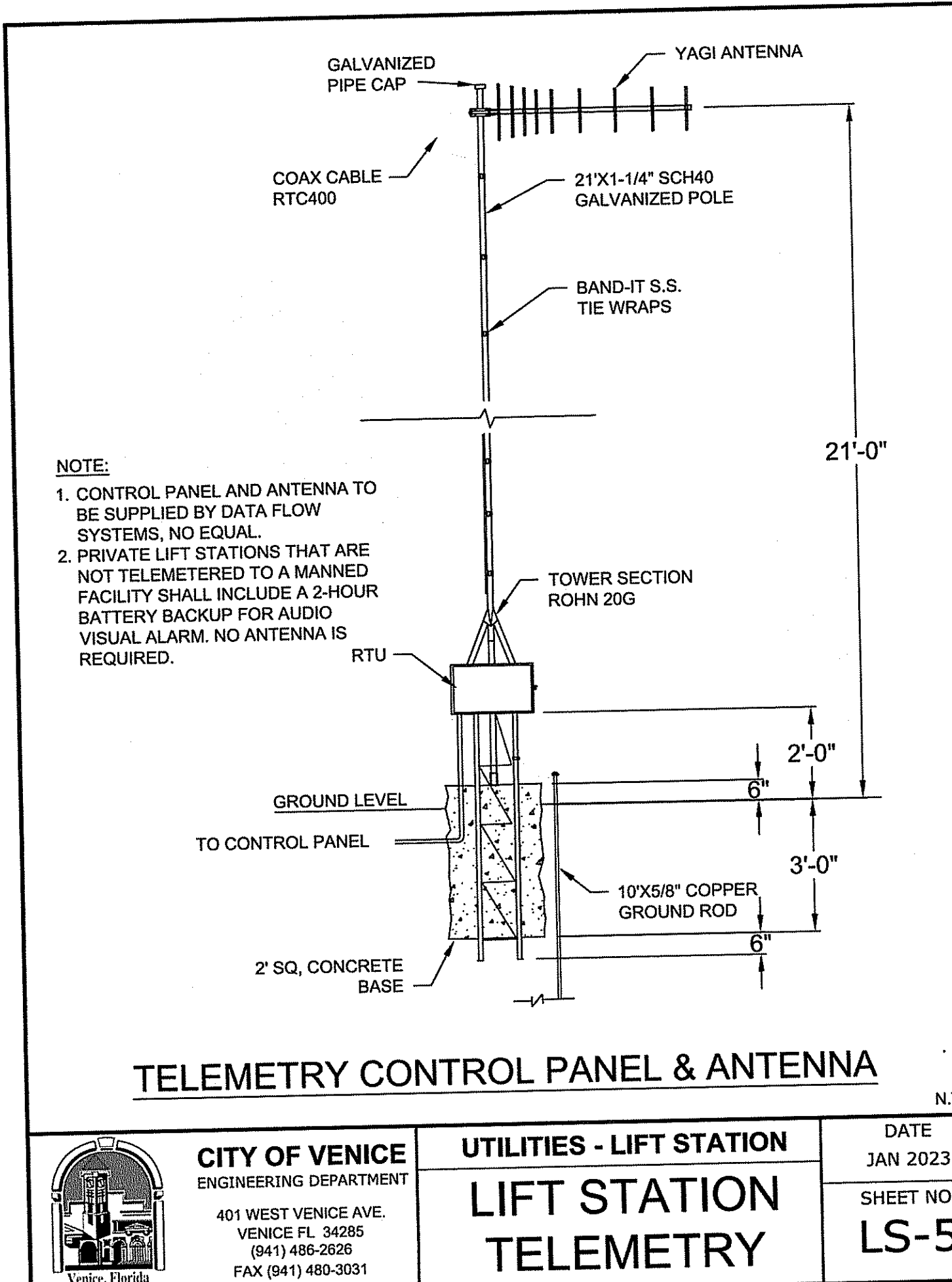
	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - LIFT STATION</b>	DATE JAN 2023
		<b>ISOLATION MANHOLE &amp; BOOT DETAILS</b>	SHEET NO. LS-3
		<b>DETAIL</b>	

Item	Quantity	Description
1	1	WETWELL: Shall be reinforced pre-cast concrete as specified by ASTM C-478, latest revision. Minimum 6-ft. interior diameter. Joints shall be sealed with Butyl seal conforming to federal specification SS-S-0210. Interior shall be lined with HDPE Agri-Sure-Grip and welded by an Agri certified welder, or equal. Exterior shall be coated with coal-tar epoxy back-splash. All hardware shall be set on a minimum base of 6 inches of gravel. A minimum of three 2-inch PVC conduits shall be provided for electrical connections to the motor control panel. All hardware supplied shall be 316 SS. No wetwell shall be fabricated with a depth greater than 25-ft.
2	1	WETWELL ACCESS HATCH COVER: 2 door access as manufactured by Halliday Products or equal. Access frame and covers shall be fabricated of 1/4 inch aluminum diamond pattern plate, with a minimum live load of 150 psf, and provide support for 3/16 SS guide rails and 3/16 SS cable holder for electrical wiring. Covers shall provide lifting handles and safety latch to hold cover in open position. Locking hasps shall be furnished for each cover.
3	1	VALVE VAULT: Shall be pre-cast concrete. All piping shall have 12 inch clearance to floor and walls. Interior and exterior shall be coated with two coats of Koppers Intercoat 40 or equal. Install 2 inch 316 SS saddle clamp & ball valve on vertical floor-to-pass piping inside of valve vault. All piping entering or exiting the valve vault shall have a rubber boot.
4	1	VALVE VAULT COVER: Shall have a 2-door access as manufactured by Halliday Products or equal. Access frame and covers shall be fabricated of 1/4 inch aluminum diamond pattern plate and withstand a minimum live load of 150 psf. Each cover shall provide a lifting handle and safety latch to hold cover in open position. Locking hasps shall be furnished for each cover. All hardware supplied shall be 316 SS.
5	1	ISOLATION MANHOLE AND INFLUENT PIPING: Isolation manhole shall be located within 50 feet of the wetwell and discharge through a solitary gravity pipe directly into the wetwell. The isolation manhole walls shall be lined with Agri-Sure-Grip, while the manhole invert and bottom shall be lined with a GURFRP liner or equal. All Interior Seams/Joints to be welded by an Agri certified welder. Isolation manhole shall be located outside of traffic area.
6	1	PIPING: All piping within the wetwell (discharge, standpipes, and vent) shall be high density polyethylene (HDPE) pipe of four inches. All piping and fittings in the valve vault shall be flanged ductile iron and coated with 2 coats coal-tar epoxy. 1. All force main piping within the wet well and valve vault, from the pump base allow to the check valve shall be DR-11 HDPE. All connections to iron-bolted flanged fittings in the wet well (pump base etc) shall be made using HDPE flange adapters with 316 stainless steel backup rings. All HDPE connections shall be flanged fittings in the wet well (pump base etc) shall be made using HDPE flange adapters with 316 stainless steel backup rings. All HDPE connections shall be flanged fittings in the wet well (pump base etc) shall be made using HDPE flange adapters with 316 stainless steel backup rings. All HDPE connections shall be flanged fittings in the wet well (pump base etc) shall be made using HDPE flange adapters with 316 stainless steel backup rings. 2. All metal appurtenances including bolts, nuts and washers inside the wet well and valve vault shall be stainless steel unless otherwise noted (Type 316). All stainless steel bolts shall be installed reverse-side prior to assembly. 3. Vertical HDPE pump discharge pipe in the wet well shall be braced every eight (8) linear feet to prevent excessive bowing. The pipe shall be clamped to a single length of 1-2" stainless steel channel installed horizontally and anchored to the wet well wall at each end with a center brace of 1-4"Ø channel. The pipe clamps shall be a minimum of 1-1/2" wide, 1/2 ga. stainless steel. Wet wells larger than 8 feet of piping longer than 6 inches shall have bracing constructed from 1/4 inch x 4 inch stainless steel angle. 4. All metal appurtenances including bolts, nuts and washers inside the wet well and valve vault shall be stainless steel unless otherwise noted (Type 316). All stainless steel bolts shall be installed reverse-side prior to assembly.
7	1	VALVE VAULT DRAIN: 2-inch PVC drain with trap. Locate trap to inside of wet well.
8	1	FLOAT CABLE RACKS: 316 Stainless Steel (Do NOT install on wet well wall)
9	1	VENT PIPE: 4-inch galvanized Schedule 80 PVC pipe with stainless steel screen.
10	2	PUMPS: Shall be 240v 3-phase power, submersible-type Hydromatic or ABS, no equal. Pumps shall be a minimum of 100gpm. No vortex or grinder pumps are allowed. A pump curve shall be attached to this set of plans including points of operation or design conditions. Each pump power cable shall have a separate conduit exiting the wetwell and a single additional 2-inch conduit shall be provided for the float control cables. (1 spare pump, some as spares, 1 spare trigger & wire for each pump). Inverters shall be 316 stainless steel.
11	4	FLOAT LEVEL SWITCHES: Manufacturer - Anchor Scientific Inc. normally open types control float switch Single Throw - Double Pole(STDP) 10 amp @ 120 Vac narrow angle mercury switch Model - S2000-E2C (Square set of float). Do not install on wet well wall.
12	3	CHECK VALVES: Use only valves manufactured by KENNEDY. Valves shall be iron body, bronze-mounted, stainless steel hinge pin, outside lever and weight-operated, swing non-slam type, and equipped with removable inspection covers. Units shall be rated for 150 psi minimum working pressure and shall permit full flow area equal to that of the connecting pipe. All check valves shall have a postlock tapped into the top of the bonnet providing a 1/4-inch NPT female fitting for attachment of a pressure gauge.
13	4	PLUG VALVES: Valves shall be DuZirk. Bodies shall be cast iron per ASTM A 126, Class B. Ends shall be flanged. Class 150 per ANSI B16.1. Flugs shall be cast iron (ASTM A 126, Class B) or ductile iron (ASTM A 536, Grade 65-45-12) with neoprene lining. Valve body seats shall be 316 stainless steel. Packing shall be replaced welded-in overlay at least 1/8-inch thick of not less than 90% nickel. Body capscrews and bolts and nuts shall be Type 316 stainless steel. Packing shall be butadiene-filled Teflon and replaceable with valve body under full pressure. Plug valves, 4 inches through 12 inches, shall be non-substantiated type. Minimum pressure rating shall be 175 psi.
14	2	LIFT CABLE: 316 Stainless Steel installed on each pump.
15	1	GUIDE RAILS: 2-inch diameter rails, 316 Stainless Steel, shall be installed plumb from top to bottom, max. 12" from top of lid.
16	1	CAM-LOCK: Ductile iron spool piping with quick disconnect, dust cover, and chain. Position towards by-pass pump access.
17	1	PIPE SUPPORT: Adjustable 316 Stainless Steel pipe support stands in valve vault, minimum seven (7) and shall be coated with 2 coats of coal-tar epoxy. All above ground piping to be lined epoxy coated ductile iron or 316 HDPE.

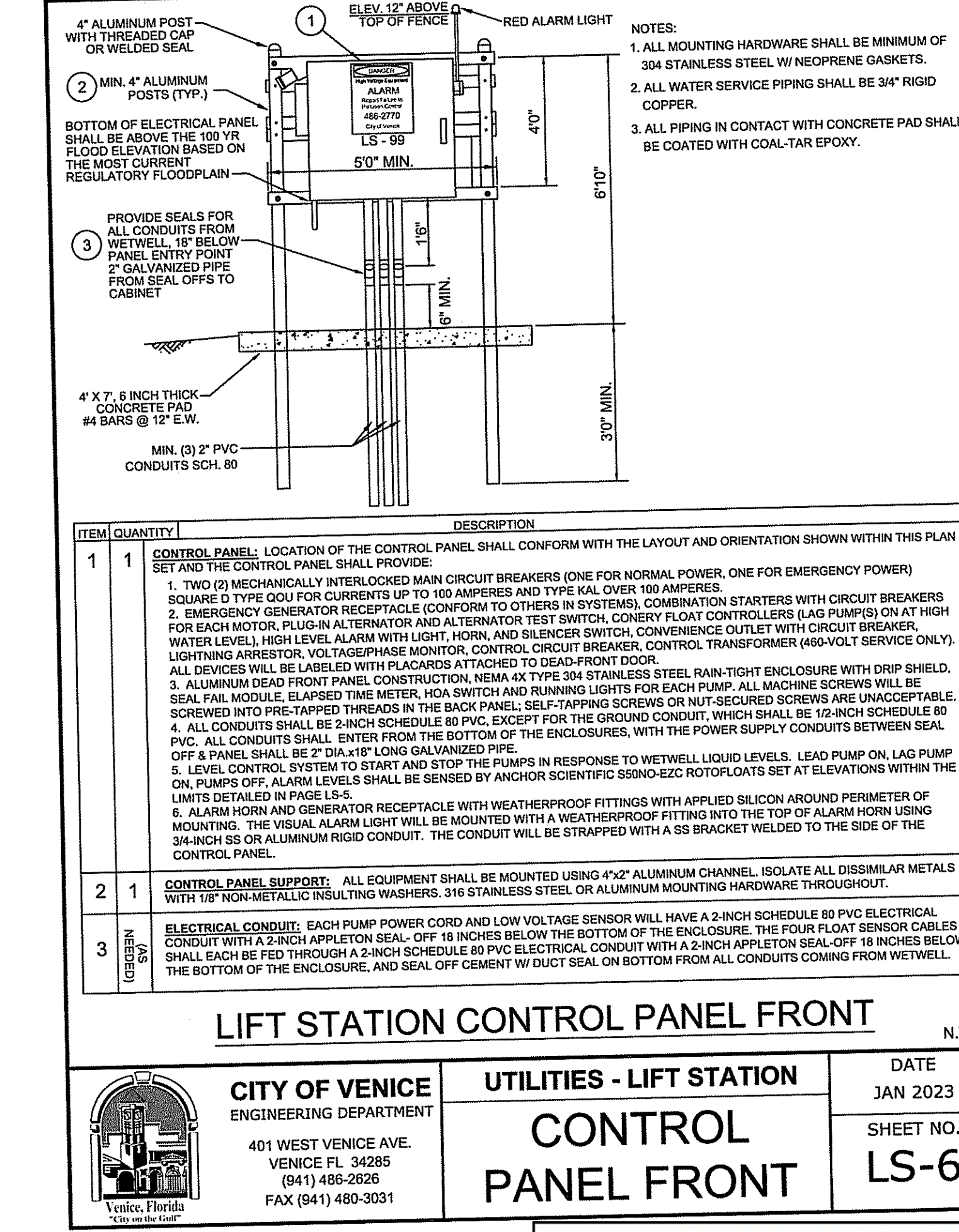
**LIFT STATION SCHEDULE AND NOTES**

- Meter feeds must be paid in full prior to the lift station start-up.
- Engineer must provide a lift station site plan which includes existing and proposed grades, showing positive drainage away from the lift station.
- Force main discharges into a manifolded system, coordinate with the city of Venice utilities department to have one pump operating at each manifolded lift station during time of pump testing.
- Check capacity of pumps by reading motor amp draw and existing with discharge pressure and rate of flow at three points on the pump curve. Rate of flow and head must be within respectively 10 percent and 2 percent above approved curve for acceptance.
- Float controls shall be submerged to check automatic operation.
- All control panel elements shall be operational during pump testing.
- The pump and control panel manufacturer's representatives shall be present for the initial start-up and testing and shall submit a written report of acceptance to the City of Venice Utilities Department upon successful test results.
- Shop drawings of entire lift station installation must be approved by the City of Venice Engineering and Utility Departments prior to placement of order.

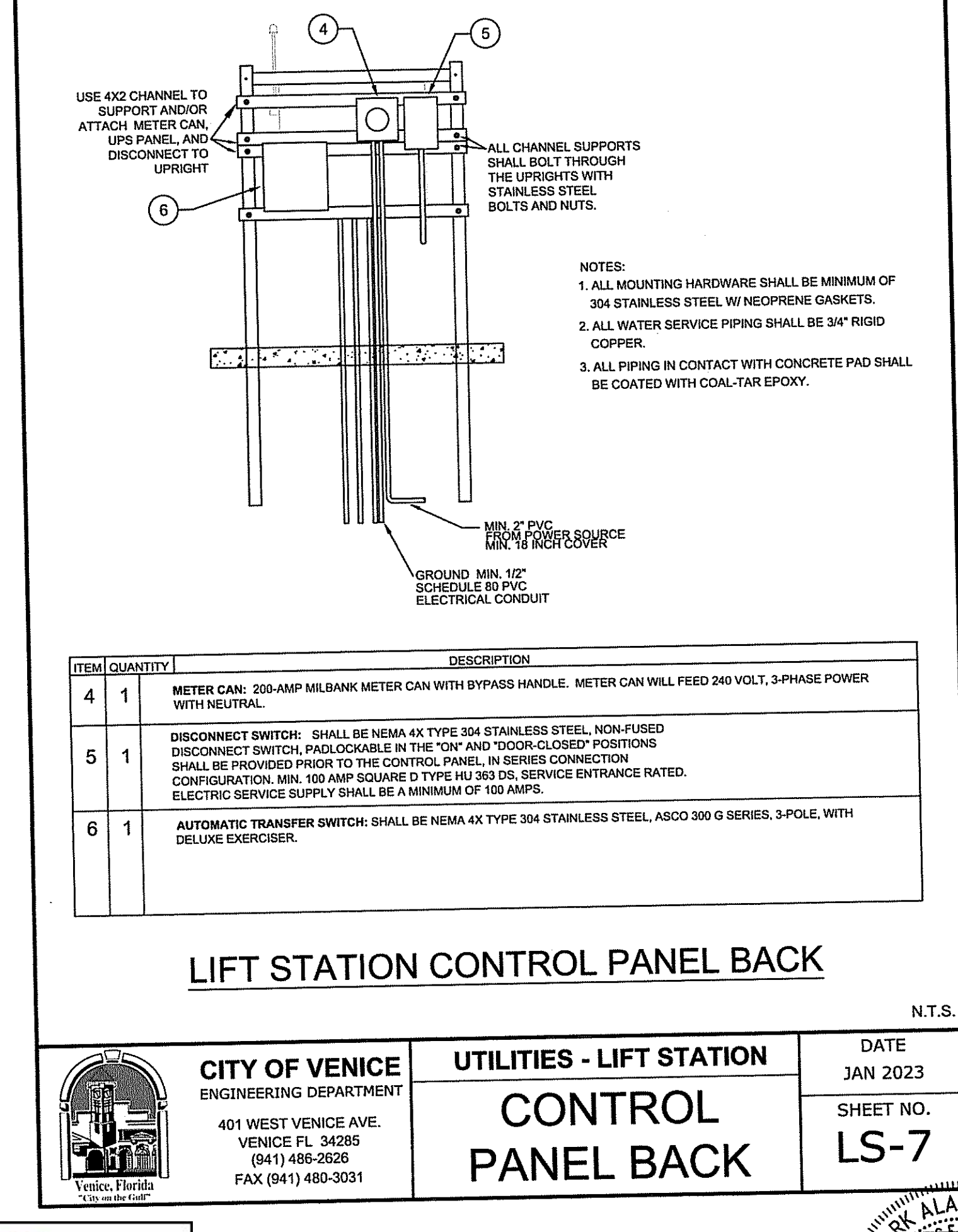
	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - LIFT STATION</b>	DATE JAN 2023
		<b>LIFT STATION</b>	SHEET NO. LS-4
		<b>SCHEDULE</b>	



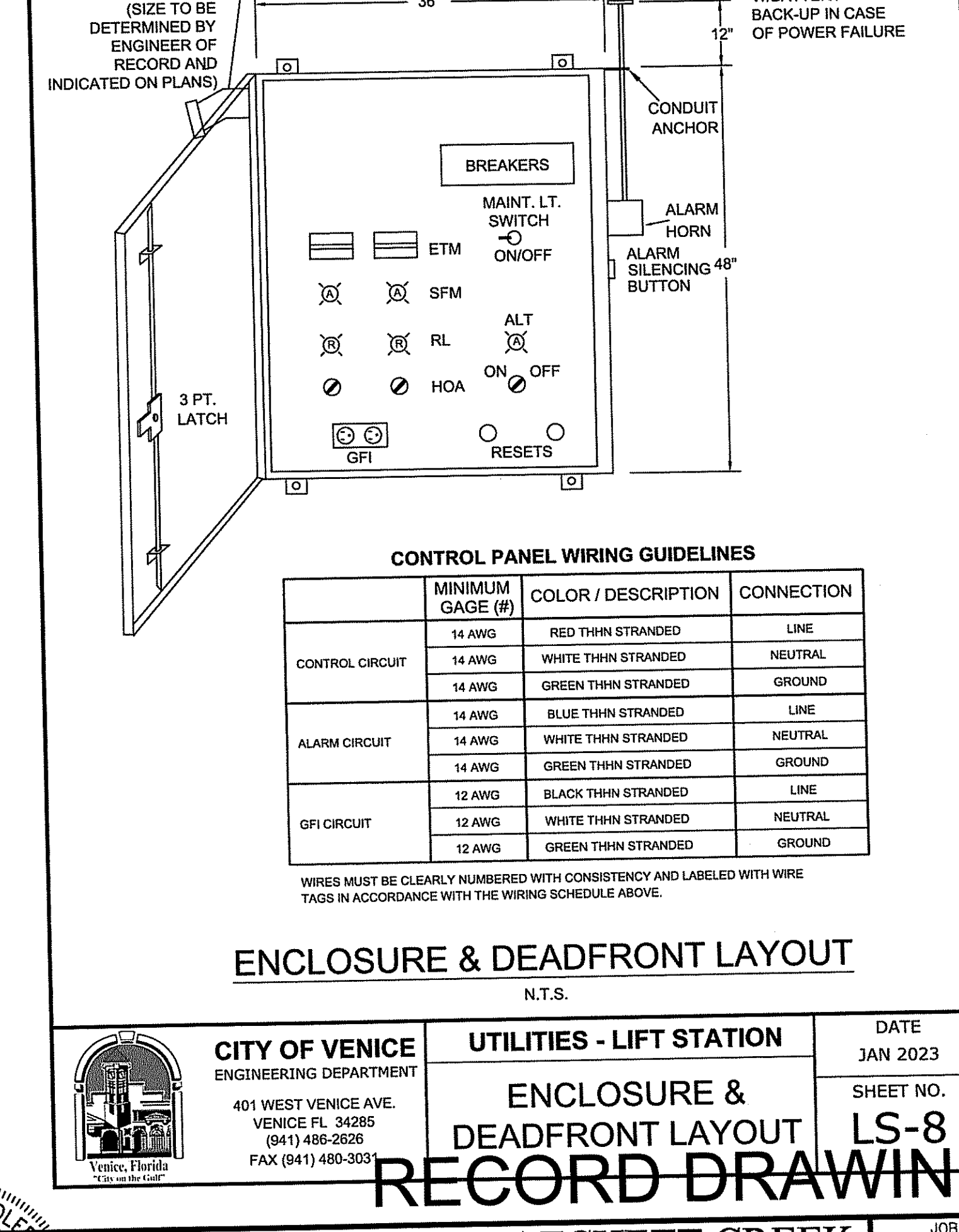
	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - LIFT STATION</b>	DATE JAN 2023
		<b>LIFT STATION</b>	SHEET NO. LS-5
		<b>TELEMETRY</b>	



	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - LIFT STATION</b>	DATE JAN 2023
		<b>CONTROL PANEL FRONT</b>	SHEET NO. LS-6
		<b>DETAIL</b>	



	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - LIFT STATION</b>	DATE JAN 2023
		<b>CONTROL PANEL BACK</b>	SHEET NO. LS-7
		<b>DETAIL</b>	



	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - LIFT STATION</b>	DATE JAN 2023
		<b>ENCLOSURE &amp; DEADFRONT LAYOUT</b>	SHEET NO. LS-8
		<b>DETAIL</b>	

**RECORD DRAWINGS**  
November 27, 2023  
**APPROVED**

**George F. Young, Inc.**  
10540 PORTAL CROSSING, SUITE 105 LAKEWOOD RANCH, FLORIDA 34211-4913  
PHONE (941) 747-2589 FAX (941) 747-2234 WWW.GEORGEF.YOUNG.COM  
ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21  
CIVIL & TRANSPORTATION ENGINEERING/ECOLOGICAL LANDSCAPE ARCHITECTURE  
PLANNING/ISURVING/SUBSURFACE UTILITY ENGINEERING  
GAINESVILLE • LAKEWOOD RANCH • ORLANDO • ST. PETERSBURG • TAMPA

**WATERFRONT ON HATCHETT CREEK**  
LIFT STATION DETAILS  
SECTION 9, TOWNSHIP 39S., RANGE 19E.

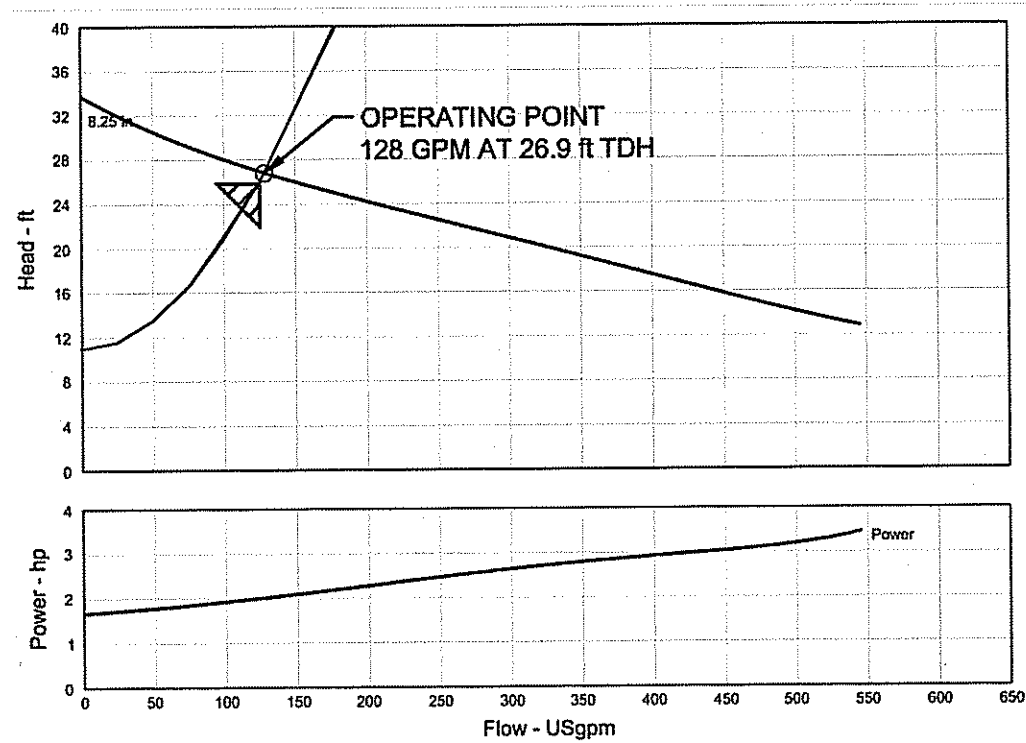
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1800600LC  
SHEET NO.  
C33



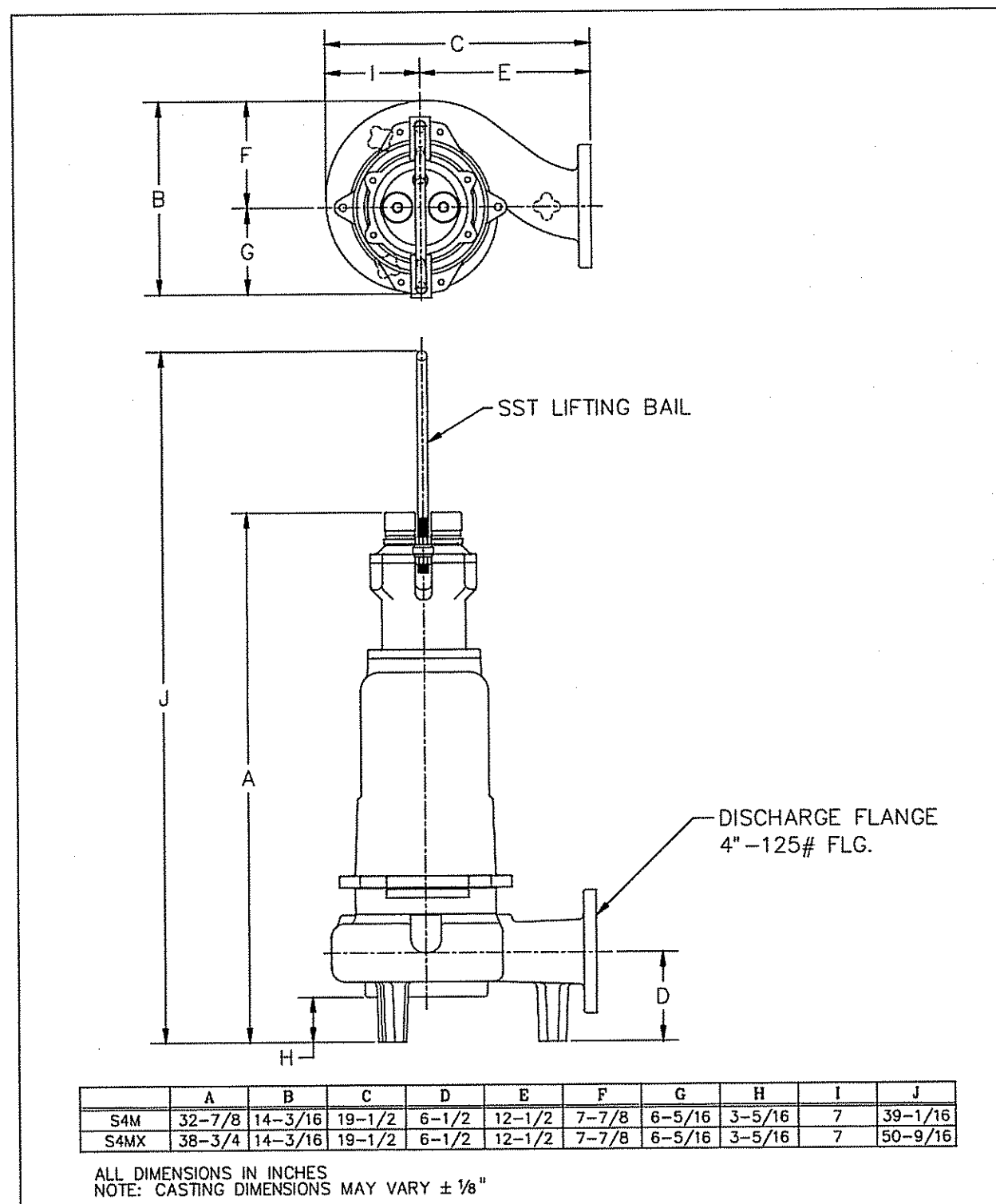
Item number	Default	Size	Hydromatic - S4M
Service	1	Stages	1
Quantity	1	Based on curve number	SUB_S_E_AH_00007_C_6 Rev
Quote number		Date last saved	2012-03-23 30 Mar 2020 11:35 AM

<b>Operating Conditions</b>	Liquid	Water	
Flow, rated	125.0 USGPM	Liquid type	
Differential head / pressure, rated (requested)	25.50 ft	Additional liquid description	
Differential head / pressure, rated (actual)	26.94 ft	Solids diameter, max	0.00 in
Suction pressure, rated / max	0.00 / 0.00 psig	Solids diameter limit	3.00 in
NPSH available, rated	Ample	Solids concentration, by volume	0.00 %
Frequency	60 Hz	Temperature, max	68.00 deg F
Performance		Fluid density, rated / max	1.000 / 1.000 SG
Speed, rated	1165 rpm	Viscosity, rated	1.00 cP
Impeller diameter, rated	8.25 in	Vapor pressure, rated	0.34 psi.a
Impeller diameter, maximum	9.00 in	Material	
Impeller diameter, minimum	6.00 in	Material selected	Standard
Efficiency	42.61 %	Pressure Data	
NPSH required / margin required	1.00 ft / 0.00 ft	Maximum working pressure	14.59 psig
ng (imp. eye flow) / S (imp. eye flow)	41 / 4	Maximum allowable working pressure	N/A
Minimum Continuous Stable Flow	52.50 USGPM	Maximum allowable suction pressure	N/A
Head, maximum, rated diameter	33.72 ft	Hydrostatic test pressure	N/A
Head rise to shutoff	25.14 ft	Driver & Power Data (GMax density)	
Flow, best eff. point	392.1 USGPM	Driver sizing specification	Maximum power
Flow ratio, rated / BEP	34.52 %	Margin over specification	0.00 %
Diameter ratio (rated / max)	91.87 %	Service factor	1.20
Head ratio (rated dia / max dia)	78.09 %	Power, hydraulic	0.85 hp
Ca/Ch/Ce/Cn (ANSI/HI 9.6.7-2010)	1.00 / 1.00 / 1.00 / 1.00	Power, rated	2.00 hp
Selection status	Acceptable	Power, maximum, rated diameter	3.45 hp
		Minimum recommended motor rating	5.00 hp / 3.73 kW



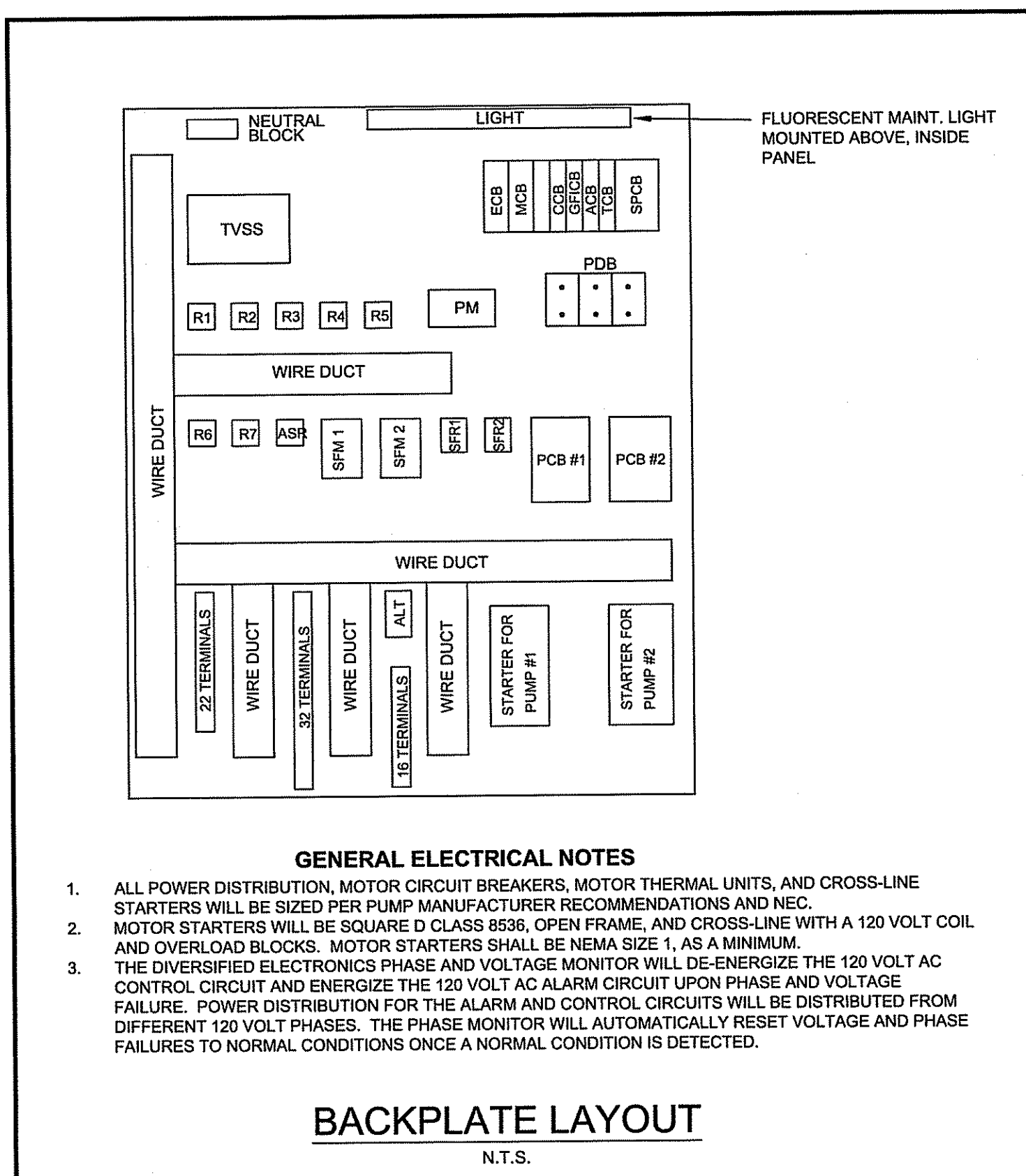
Dimensional Data - S4M/S4MX



**PENTAIR HYDRAMATIC** October © 2014 Pentair Ltd.  
**LIFT STATION AND FORCE MAIN DESIGN CRITERIA**

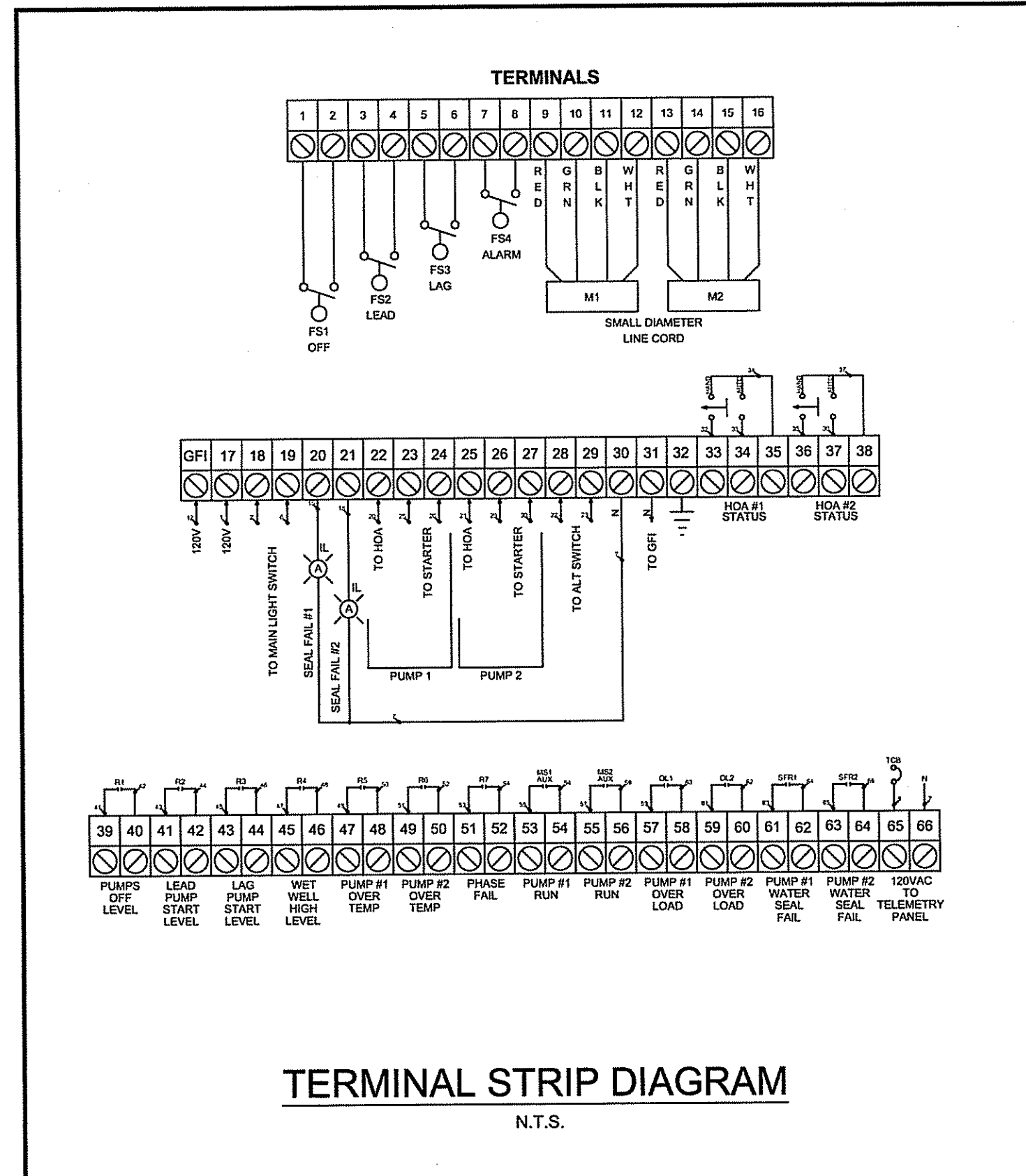
- NUMBER OF UNITS (APARTMENTS).....116 APARTMENTS  
 NUMBER OF UNITS (EMPLOYEES).....3 EMPLOYEES
- AVERAGE DAILY FLOW @ 140 GPD PER UNIT (APARTMENT).....16,240 GPD  
 AVERAGE DAILY FLOW @ 6 GPD PER UNIT (EMPLOYEE).....113 GPM
- PEAK DAILY FLOW @ 4.00 X ADF.....462 GPM
- NUMBER OF PUMPS IN PUMP STATION.....2
- PUMPING CAPACITY OF EACH PUMP.....231 GPM
- TOTAL STORAGE VOLUME OF WET WELL BETWEEN OPERATING LEVELS.....217 GALLONS
- MAXIMUM CYCLE STARTS OF EACH PUMP.....3.2 STARTS/HOUR
- MINIMUM PUMP TIME DURING LOW FLOW @ PROPOSED PUMP RATE.....29.8 MINUTES
- WEIGHT OF WET WELL WITHOUT EQUIPMENT (INCL. SOIL WEIGHT OVER LIP).....26,200 LBS
- BUOYANCY OF WET WELL.....1.0
- BUOYANCY FACTOR OF SAFETY.....2.1 FS.

NO.	BY	DATE	DESCRIPTION	NO.	BY	DATE	DESCRIPTION
1	PN	11/05/20	DETAILS UPDATED PER COV REVIEW COMMENTS DATED 10/12/20				
2	PN	01/15/21	REV. PER COV REVIEW COMMENTS DATED 01/04/21, ADD PUMP CURVE				



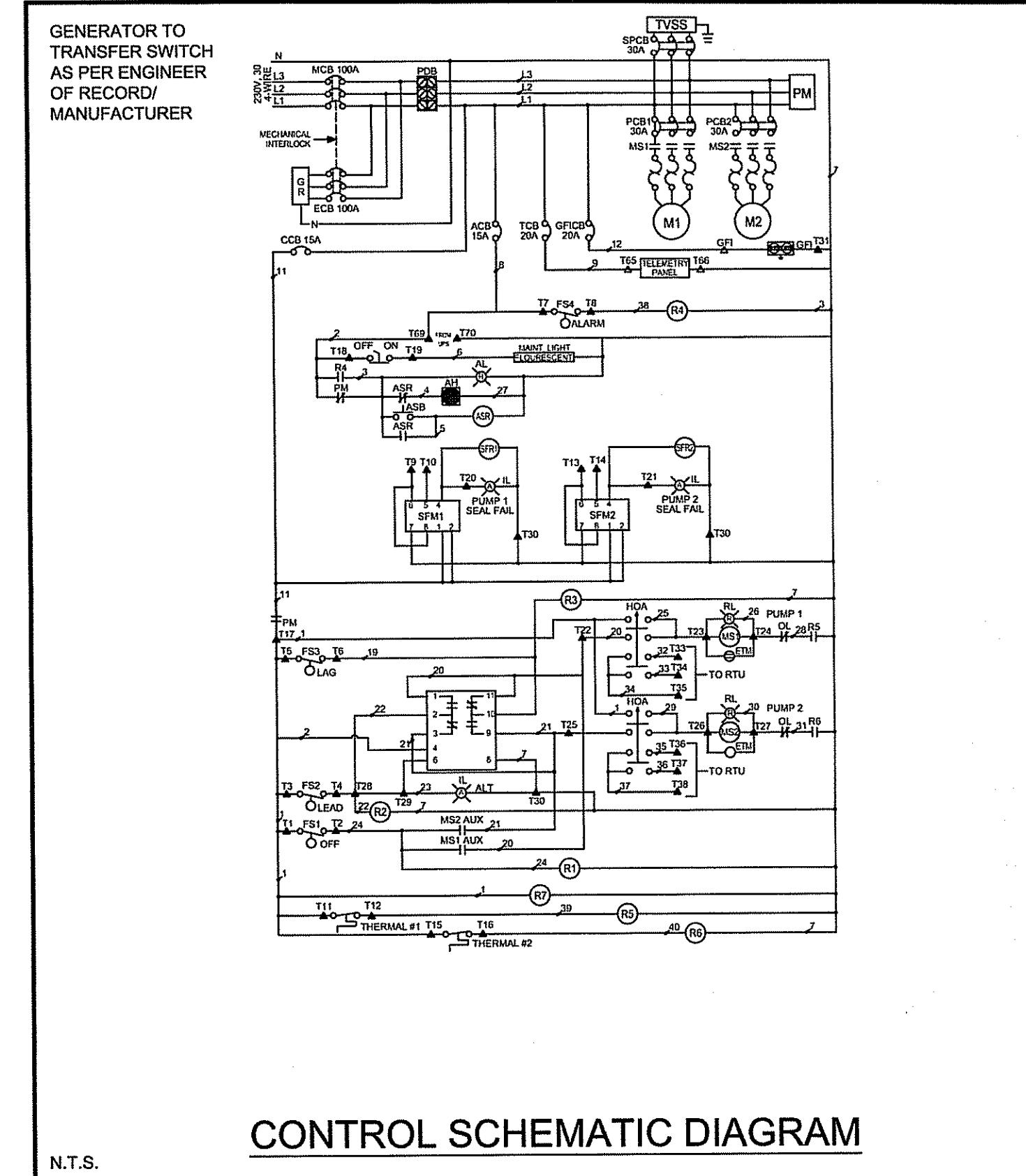
**BACKPLATE LAYOUT** N.T.S.

	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - LIFT STATION</b> <b>BACKPLATE LAYOUT</b>	DATE JAN 2023 SHEET NO. <b>LS-9</b>
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**TERMINAL STRIP DIAGRAM** N.T.S.

	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - LIFT STATION</b> <b>TERMINAL STRIP DIAGRAM</b>	DATE JAN 2023 SHEET NO. <b>LS-10</b>
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**CONTROL SCHEMATIC DIAGRAM** N.T.S.

	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - LIFT STATION</b> <b>CONTROL SCHEMATIC DIAGRAM</b>	DATE JAN 2023 SHEET NO. <b>LS-11</b>
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**CONTROL PANEL**

QTY.	ABBR.	DESCRIPTION	MANUFACTURER, PART NO.
1	ENC	ENCLOSURE, 304 S.S. NEMA 3R/12	HOFFMAN, A48H3612SSLP (MIN SIZE) W/3PT LATCH
1	MCB	MAIN CIRCUIT BREAKER	SQ.D. QOU3100*
1	ECB	EMERGENCY CIRCUIT BREAKER	SQ.D. QOU3100*
2	PCB1,2	PUMP CIRCUIT BREAKER	SQ.D. QOU330*
1	SPCB	SURGE PROTECTOR CIRCUIT BREAKER	SQ.D. QOU330
1	CCB	CONTROL CIRCUIT BREAKER	SQ.D. QOU115
1	GFICB	GFI CIRCUIT BREAKER	SQ.D. QOU120
1	ACB	ALARM CIRCUIT BREAKER	SQ.D. QOU115
1	TCB	TELEMETRY CIRCUIT BREAKER	SQ.D. QOU120
2	MS1,2	MOTOR STARTER	SQ.D. 8536 (SIZE 1 MIN.)
6	OL	OVERLOAD HEATER	SQ.D. B 28*
1	GR	GENERATOR RECEPTACLE	RUSSELL STOLL, JRSB104FR
1	PM	PHASE MONITOR	DIVERSIFIED SLA 230ALA**
2	ETM	ELAPSED TIME METER	SIMPSON, 112ET
1	ALT	ALTERNATOR	DIVERSIFIED ARB-120-ADA
1	AH	ALARM HORN	WHEELLOCK, WHE-31T-11SS
1	AL	ALARM LIGHT - STROBE	TOMAR, 49SS-120-RED
1	ASR	ALARM SILENCE RELAY	SQ.D. 8501 KP12 V20
1	ASB	ALARM SILENCE BUTTON	SQ.D. 9001 SKR1BH5
1		MAINTENANCE LIGHT SWITCH	SQ.D. 9001 SKS11B5
1		ALTERNATOR SWITCH	SQ.D. 9001 SKS11B5
2	HOA	HAND OFF AUTO SWITCH	SQ.D. 9001 SKS43BH13
2	RL	RUN LIGHT	SQ.D. 9001 SKP1R31
3	IL	INDICATING LIGHT	SQ.D. 9001 SKP1A31
2	GFI	GFI RECEPTACLE	HUBBELL, GF20IL
2	SFM1,2	SEAL FAIL MODULE	SSAC, LLC/S4M
2	SFR1,2	CONTROL RELAY	SQ.D. 8501 KP12 V20
7	R1 - 7	CONTROL RELAY	SQ.D. 8501 KP12 V20
1	TVSS	SURGE PROTECTOR	INNOVATIVE TECHNOLOGY PTX080 3D101-240-30-N400480-30
1	TVSS	MAINTENANCE LIGHT (FLUORESCENT)	HOFFMAN, A-LF16M18-R #FS12RC
3		DIN RAIL	ABB, XU5801738

**NOTES:**  
 1) \* = SIZE AS REQUIRED PER HP.  
 2) MIN. #14 AWG THHN  
 3) \*\* = SIZE AS REQUIRED PER VOLTAGE.

**CONTROL PANEL** N.T.S.

	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - LIFT STATION</b> <b>CONTROL PANEL</b> <b>BILL OF MATERIALS</b>	DATE JAN 2023 SHEET NO. <b>LS-12</b>
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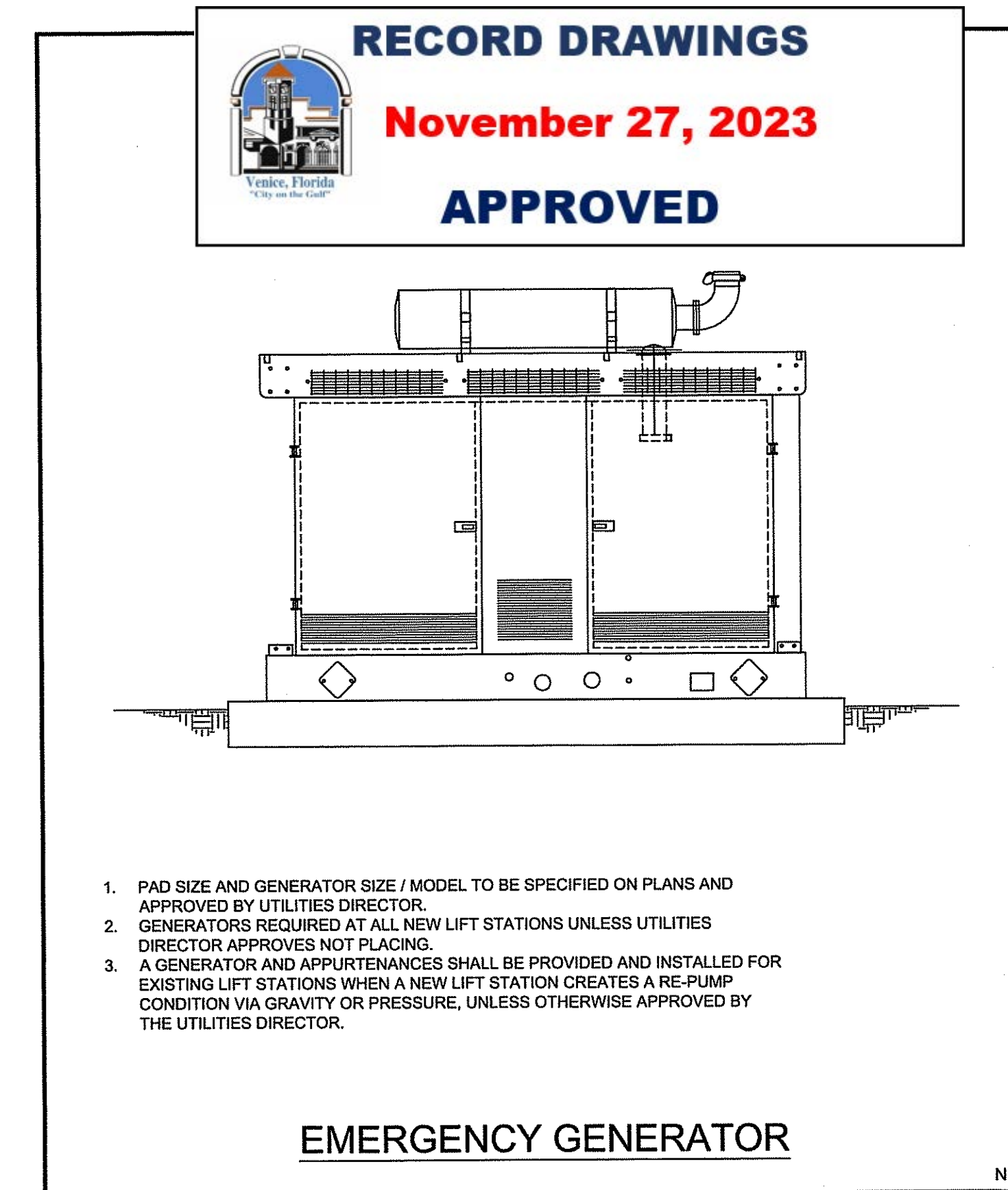
**UPS PANEL**

QTY.	ABBR.	DESCRIPTION	MANUFACTURER, PART NO.
1	ENC	ENCLOSURE, 304 S.S. NEMA 3R/12	CUSTOM EQUIPMENT, 24X20X10-SL
1	FAN	COOLING FAN	HOFFMAN, A-4AXFN
1	T-STAT	THERMOSTAT	PFFANNENBERG, FL2330
1	F1	FUSE	FERRAZ, TRM-3
1	SR	UPS RECEPTACLE	PHOENIX CONTACT, 2963860

**NOTES:**  
 1) \* = SIZE AS REQUIRED PER HP.  
 2) MIN. #14 AWG THHN  
 3) \*\* = SIZE AS REQUIRED PER VOLTAGE.

**UPS PANEL & SPARE PARTS LIST** N.T.S.

	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - LIFT STATION</b> <b>UPS PANEL &amp; SPARE PARTS LIST</b>	DATE JAN 2023 SHEET NO. <b>LS-13</b>
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**EMERGENCY GENERATOR** N.T.S.

	<b>CITY OF VENICE</b> ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	<b>UTILITIES - LIFT STATION</b> <b>EMERGENCY GENERATOR</b>	DATE JAN 2023 SHEET NO. <b>LS-14</b>
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NO.	BY	DATE	DESCRIPTION	NO.	BY	DATE	DESCRIPTION
1	PN	11/05/20	DETAILS UPDATED PER COV REVIEW COMMENTS DATED 10/12/20				
2	PN	01/15/21	REV. PER COV REVIEW COMMENTS DATED 01/04/21, ADD PUMP CURVE				

**George F. Young, Inc.**  
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 ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER 21  
 CIVIL & TRANSPORTATION ENGINEERING | ECOCLOGY | GIS/LANDSCAPE ARCHITECTURE  
 PLANNING | SURVEYING | SUBSURFACE UTILITY ENGINEERING  
 GAINESVILLE • LAKEWOOD RANCH • ORLANDO • ST. PETERSBURG • TAMPA

**WATERFRONT ON HATCHETT CREEK**  
**LIFT STATION DETAILS**  
 SECTION 9, TOWNSHIP 39S., RANGE 19E.