GENERAL NOTES:

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE CITY OF VENICE LAND DEVELOPMENT REGULATIONS.
- THE CONTRACTOR SHALL RETAIN ON THE WORK SITE AT ALL TIMES COPIES OF ALL PERMITS NECESSARY FOR
- THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS THE BENCHMARK DATUM FOR THIS PROJECT. CONVERSION FACTOR: NAVD 1988 + 1.11 FT = NGVD 1929.
- ALL AREAS DESIGNATED AS "PRESERVE OR CONSERVATION" TO BE CLEARLY DELINEATED PRIOR TO

GENERAL CONSTRUCTION NOTES:

- 1. THERE SHALL BE NO CHANGE OR DEVIATION FROM THESE PLANS UNLESS APPROVED BY THE ENGINEER OR CITY OF VENICE.
- 2. ALL CLEARING AND GRUBBING DEBRIS TO BE BURNED OR REMOVED FROM SITE AND IS PART OF CLEARING AND GRUBBING ITEM
- 3. IT IS THE INTENT OF THE OWNER THAT CERTAIN TREES BE DESIGNATED TO BE SAVED AND PROTECTED BY THE CONTRACTOR. IT IS ASSUMED THESE TREES AF HEALTHY AND ARE EXPECTED TO BE PART OF THE LANDSCAPE DEVELOPMENT. THEREFORE, IF ANY TREE(S) DAMAGED BY CONSTRUCTION OPERATION OR BY OTHER MEANS (EXCLUDING LIGHTNING, WINDSTORM AND OTHER ACTS OF GOD) PERISHES WITHIN THE CONSTRUCTION PERIOD, IT WILL BE THE RESPONSIBILIT OF THE CONTRACTOR TO REMOVE AND DISPOSE OF THOSE TREES. NO ADDITIONAL COMPENSATION WILL BE MADE BY THE OWNER FOR THE LABOR, MATERIAL OR MACHINERY REQUIRED TO REMOVE SAID TREE(S). EXOTIC VEGETATION (E.G., MELALEUCA AND BRAZILIAN PEPPER) EXISTING WITHIN THE PROJECT AREA SHALL BE REMOVED AND PROPERLY DISPOSED OF IN AN APPROVED LANDFILL.
- WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM. NO EQUIPMENT, SUPPLIES OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL OF HIS EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME
- LAY SOD AROUND ALL INLETS, MITERED ENDWALLS, HEADWALLS, SWALES, LAKE SLOPES, AND TWO FEET (2') WIDE STRIP ADJACENT TO ALL CURBING, AND AS DIRECTED BY THE ENGINEER, ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS, FINISH EARTHWORK GRADING WILL BE 0,2 FEET BELOW ELEVATIONS SHOWN TO ALLOW FOR SOD THICKNESS. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED WHICHEVER COMES LAST. ALL EROSION SILTATION AND MAINTAINING GRADES IS THE RESPONSIBILITY OF THE
- CALL "SUNSHINE" (1-800-432-4770), COMCAST, FPL, CITY OF VENICE UTILITIES DEPARTMENT, TECO, AND FRONTIER PRIOR TO CONSTRUCTION AND CONNECTION TO EXISTING UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT. EXISTING UTILITIES FROM DAMAGE.
- ALL UTILITY LINES, STORM DRAIN LINES AND ACCESSORIES SUCH AS, BUT NOT LIMITED TO MANHOLES, CLEANOUTS, SEWER AND WATER SERVICES, VALVES, FIRE HYDRANTS AND INLETS WILL BE CONSTRUCTED TO ALIGNMENT AND LOCATIONS SHOWN ON PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER,
- 8. CLEARING, GRUBBING, STRIPPING, AND COMPACTION WILL BE INSPECTED BY THE ENGINEER PRIOR TO FILLING
- PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, CONSERVATION/PRESERVE AREAS, EXISTING LAKES & WATERWAYS WITHIN AND ADJOINING THE AREA OF CONSTRUCTION ACTIVITY SHALL BE PROTECTED BY ERECTION OF TREE PROTECTION BARRICADES AND/OR SILT BARRIERS. TREE PROTECTION BARRICADES SHALL MEET THE STANDARDS OF THE CITY OF VENICE. SILT BARRIERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "BEST MANAGEMENT PRACTICES PLAN" AND THE "BMP DETAILS" SHOWN ON DWGS, B-1 THROUGH B-2 OF THE FULL CIVIL CONSTRUCTION PLANS, THE ENGINEER WILL DETERMINE THE EXTENT AND TYPE OF PROTECTIVE MEASURES TO BE CONSTRUCTED FOR PROTECTION OF CONSERVATION/PRESERVE AREAS, THE ENGINEER SHALL BE NOTIFIED WHEN PRESERVE AREA BARRICADES AND BARRIERS ARE IN PLACE
- THE SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN THE AUTOCAD FILES AND SITE CONSTRUCTION PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO THAT STAKEOUT.
- 11. ALL DRAINAGE PIPE JOINTS SHALL BE WRAPPED PER FDOT INDEX NO. 280, SHEET
- 12. ROADWAY AND DRAINAGE STRUCTURES SHALL MEET FDOT STANDARD SPECIFICATIONS SECTION 346 OF 3000 PSI CONCRETE
- 13. THE WETLAND AND ASSOCIATED UPLAND VEGETATIVE BUFFER SHALL BE MAINTAINED IN ACCORDANCE WITH MANAGEMENT GUIDELINES CONTAINED WITHIN THE COMPREHENSIVE PLAN AS A CONSERVATION AREA OR PRESERVE. ALL ACTIVITIES INVOLVING FILLING, EXCAVATING, WELL DRILLING, ALTERING VEGETATION (INCLUDING TRIMMING OF BOTH TREES AND UNDERSTORY) AND STORING OF MATERIALS SHALL BE PROHIBITED WITHIN PRESERVATION AREAS, UNLESS WRITTEN APPROVAL IS FIRST OBTAINED FROM RESOURCE PROTECTION SERVICES TO FACILITATE IMPLEMENTATION OF APPROVED HABITAT MANAGEMENT PLANS OR THE REMOVAL OF NUISANCE/INVASIVE VEGETATION
- 14. A TREE REMOVAL AND PROTECTION PERMIT WILL BE REQUIRED PRIOR TO ANY CONSTRUCTION, CLEARING OR TREE REMOVAL. ALL WORK PERFORMED SHALL BE
- 15. EROSION AND SEDIMENT CONTROL BMPS IN ADDITION TO THOSE PRESENTED ON THE PLANS AND OUTLINED IN THE EROSION AND SEDIMENT CONTROL PLAN (ECP), BEST MANAGEMENT PRACTICES (BMP) PLAN, OR STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTIES OR ROADWAYS, OFF SITE STORMWATER CONVEYANCES OR RECEIVING WATERS OR ON SITE WETLANDS AND SURFACE WATERS. BMPS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED BY THE SITE OPERATOR TO ENSURE THAT OFF SITE SURFACE WATER QUALITY REMAINS CONSISTENT WITH STATE AND LOCAL REGULATIONS. ITHE OPERATOR IS THE ENTITY THAT OWNS OR OPERATES THE CONSTRUCTION ACTIVITY AND HAS AUTHORITY TO CONTROL THOSE ACTIVITIES AT THE PROJECT NECESSARY TO ENSURE COMPLIANCE.]
- OFFSITE SURFACE WATER DISCHARGES, DISCHARGES TO THE MS4, OR DISCHARGES TO ONSITE WETLANDS OR SURFACE WATERS WITH TURBIDITY IN EXCESS OF 29 NEPHELOMETRIC TURBIDITY UNITS (NTUS) ABOVE BACKGROUND LEVEL SHALL BE IMMEDIATELY CORRECTED. SUCH INCIDENTS SHALL BE REPORTED TO THE CITY OF VENICE WITHIN 24 HOURS OF THE OCCURRENCE. THE REPORT SHALL INCLUDE THE CAUSE OF THE DISCHARGE AND CORRECTIVE ACTIONS TAKEN.
- 17. FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ENTER STORMWATER DRAINS OR WATERBODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS OF 25 GALLONS SHALL BE CONTAINED, CLEANED UP, AND IMMEDIATELY REPORTED TO THE CITY OF VENICE. SMALLER GROUND SURFACE SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICAL.
- IF CONTAMINATED SOIL AND/OR GROUNDWATER IS DISCOVERED DURING DEVELOPMENT OF THE SITE, ALL ACTIVITY IN THE VICINITY OF THE CONTAMINATION SHALL IMMEDIATELY CEASE, AND THE CITY OF VENICE SHALL BE CONTACTED.
- 19. FERTILIZER APPLICATION SHALL BE CONSISTENT WITH THE CITY OF VENICE CODE
- 20. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORMWATER:

WITH RULE 62-621.300(4)(A)PART III.C.2. F.A.C.

- i. NPDES CONSTRUCTION GENERIC PERMIT COVERAGE SHALL BE OBTAINED AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION COMMENCEMENT IN
- iii. A COPY OF THE CERTIFIED NPDES NOI, OR A COPY OF THE FDEP COVERAGE CONFIRMATION LETTER SHALL BE PROVIDED TO AIR AND WATER QUALITY IN

ii. A COPY OF THE CERTIFIED NPDES NOI, OR A COPY OF THE FDEP COVERAGE CONFIRMATION LETTER SHALL BE POSTED AT THE SITE IN ACCORDANCE

- ACCORDANCE WITH RULE 62-621.300(4)(A)PART III.D.1, F.A.C.. iv. THE SWPPP SHALL BE CERTIFIED IN ACCORDANCE WITH RULE 62-621.300(4)(A)PART V.D.6, F.A.C., AND A COPY OF THE CERTIFIED DOCUMENT SHALL BE
- SUBMITTED TO AIR AND WATER QUALITY AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. v. A COPY OF THE SWPPP, AND COPIES OF THE INSPECTION AND MAINTENANCE RECORDS SHALL BE MAINTAINED AT THE PROJECT SITE, AND SHALL BE
- READILY AVAILABLE TO STATE INSPECTORS.
- vi. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM DEWATERING: THE DISCHARGE OF GROUNDWATER PRODUCED THROUGH DEWATERING, TO SURFACE WATERS, OR TO ANY PORTION OF THE MS4 WILL REQUIRE SEPARATE PERMITTING FROM THE DEP. PERMIT(S) SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF DEWATERING. ANALYTICAL RESULTS FROM PRE-DISCHARGE TESTING SHALL BE PROVIDED TO AIR AND WATER QUALITY.
- 21. THE CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSION OR EMISSIONS OF UNCONFINED PARTICULATE MATTER IN ACCORDANCE WITH RULE 62-296.320(4)(c)1., FLORIDA ADMINISTRATIVE CODE, FROM THE CONSTRUCTION SITE BY TAKING ADEQUATE MEASURES TO STABILIZE
- 22. DEPARTMENT OF ENVIRONMENTAL PROTECTION WATER AND WASTEWATER PERMITS ARE REQUIRED.
- 23. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN AN APPROVED MANNER.
- 24. IN THE EVENT THAT THE CONSTRUCTION SITE IS ABANDONED PRIOR TO THE PROJECT COMPLETION, ALL CONSTRUCTION AND VEGETATIVE DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED LANDFILL FACILITY.
- 25. A SEPARATE BUILDING PERMIT MUST BE APPLIED FOR AND ISSUED FOR EVERY SIGN, WALL, OUTDOOR LIGHTING AND STRUCTURE ON THE SITE. THE APPROVAL OF THESE CONSTRUCTION PLANS DOES NOT EXEMPT THE CONTRACTOR FROM OBTAINING THE NECESSARY BUILDING PERMITS.

CITY OF VENICE REQUIRED NOTES:

- ALL WORK CONDUCTED IN THE CITY OF VENICE RIGHT-OF-WAY (ROW) WILL REQUIRE THE ISSUANCE OF A ROW
- 2. ALL WORK CONDUCTED IN SARASOTA COUNTY AND/OR FDOT ROW SHALL REQUIRE A COPY OF STATE ISSUED
- TREE REMOVAL PERMIT MUST BE OBTAINED FROM THE CITY OF VENICE.
- 4. 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. 633,521,
- 6. CONSTRUCTION SITE MUST BE POSTED WITH 24-HOUR CONTACT INFORMATION.
- 7. ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, SHALL MEET CITY OF VENICE STANDARDS.
- 8. CONTACT PUBLIC WORKS SOLID WASTE DIVISION (941-486-2422) FOR APPROVAL OF DUMPSTER LOCATION AND LAYOUT PRIOR TO CONSTRUCTION.

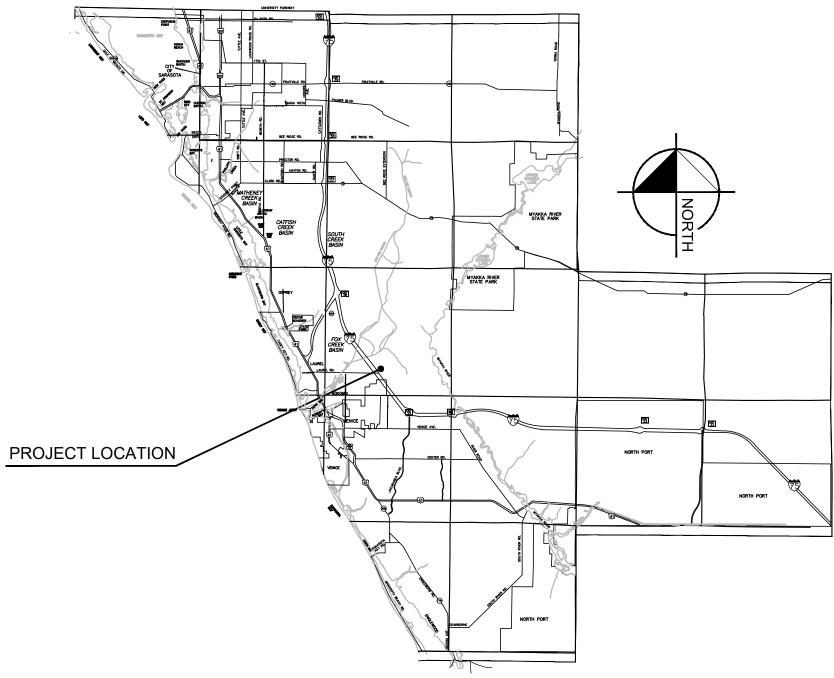
SITE AND DEVELOPMENT PLANS

FOR

GENERATION AT VENICE

SECTION 21, TOWNSHIP 38 S, RANGE 19 E NORTH VENICE, FLORIDA

OCTOBER 2020



VICINITY MAP

DEVELOPER: KAPLAN RESIDENTIAL, LLC 1111 KANE CONCOURSE, SUITE 302 BAY HARBOR ISLANDS, FL 33154 PH:(305) 901-2200 CONTACT: MORRIS KAPLAN

ENGINEER AND LANDSCAPE ARCHITECTURE: KIMLEY HORN AND ASSOCIATES, INC. 1777 MAIN STREET, SUITE 200 SARASOTA, FL 34236 PH:(941)379-7600 CONTACT: WILLIAM E. CONERLY, P.E.

SURVEYOR: GEOSERV, LLC. 5707 19TH STREET W. BRADENTON, FL 34207 PH: (877)407-3734 CONTACT: DAVID COUGHLIN, CST

ARCHITECT: NILES BOLTON ASSOCIATES 3060 PEACHTREE ROAD NW, SUITE 600 ATLANTA, GA 30305 PH: 365-7600 x 120 CONTACT: ANDRES RUBIO. AIA

STRUCTURAL ENGINEER: **BROWDER + LeGUIZAMON & ASSOCIATES** 6285 BARFIELD ROAD, SUITE 200 ATLANTA, GA 30328 PH:(404) 851-9580 x 251 **CONTACT: STERLING COCHRAN**

MEP ENGINEER: THOMPSON ELLE COMPANY 616 FM 1960 W, SUITE 580 HOUSTON, TX PH: (713) 766-1820 CONTACT: JERRY BASCONI

INTERIOR DESIGN: CID DESIGN GROUP 9115 GALLERIA COURT, SUITE 100 NAPLES, FL 34109 PH: (239) 495-3806 CONTACT: KORI KORCYZK

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PHONE (941) 379-7600

WWW.KIMLEY-HORN.COM CA 00000696

Sheet List Table Sheet Number Sheet Title **COVER SHEET** GENERAL NOTES AERIAL SITE PLAN EXISTING CONDITIONS PLAN DEMOLITION PLAN INDEX PLAN SITE PLAN SITE PLAN SITE PLAN A-10 SITE PLAN BEST MANAGEMENT PRACTICES PLAN BEST MANAGEMENT PRACTICES DETAILS MASTER DRAINAGE PLAN PAVING GRADING AND DRAINAGE PLAN GRADING SECTIONS CITY OF VENICE PAVING AND SIDEWALK DETAILS

STORMWATER DETAILS

UTILITY PLAN

MISCELLANEOUS DETAILS

SMALL CONTROL STRUCTURE DETAILS

CITY OF VENICE WATER AND SEWER DETAILS

CITY OF VENICE WATER AND SEWER DETAILS

CITY OF VENICE WATER AND SEWER DETAILS

CITY OF VENICE LIFT STATION DETAILS

CITY OF VENICE LIFT STATION DETAILS

B-10

B-11

B-12

C-3

C-4

C-5

LAND USE DEVELOPMENT DATA

PARCEL AREA: 29.87 ACRES

PRESENT ZONING: RMF-4 RESIDENTIAL MULTI-FAMILY

ABUTTING ZONING: WEST: OUE

EAST: KNIGHTS TRAIL ROAD RIGHT-OF-WAY, TOSCANA ISLES PUD

NORTH: OUE

PROJECT ADDRESS: 2201 KNIGHTS TRAIL RD. NOKOMIS, FL 34275

0364-09-0002 29.87 ACRES PROJECT AREA:

PROPOSED NUMBER OF UNITS SHOWN: 239 MULTI-FAMILY RENTAL APARTMENT HOMES WITH A 7.078 SQUARE FOOT AMENITY CENTER BUILDING

OVERALL DENSITY: 239 UNITS / 29.87 AC. = 8 UNITS PER ACRE (MAXIMUM ALLOWED = 18 UNITS/ACRE)

BUILDING (MULTI-FAMILY APARTMENTS + AMENITY CENTER) ROADS, SIDEWALKS AND PARKING 7.11 ACRES (23.80%) (8.60%) LAKES @ CONTROL WATER EL. 2.57 ACRES

FRONT: 20' PROPOSED BUILDING SETBACKS: SIDE: 15'

REAR: 15'

RECLAIMED WATER: PROVIDED BY CITY OF VENICE.

WATER: POTABLE WATER SUPPLY WILL BE FROM CITY OF VENICE UTILITIES.

SEWER: WASTEWATER SERVICES WILL BE PROVIDED BY CITY OF VENICE UTILITIES.

GARBAGE: GARBAGE PICKUP WILL BE PROVIDED BY CITY OF VENICE.

ROADWAYS: ACCESS TO THIS PROJECT IS PROVIDED FROM KNIGHTS TRAIL ROAD.

PARKING LOT: TO BE PRIVATELY MAINTAINED.

LOADING ZONES REQUIRED: 5

LOADING ZONES PROVIDED: 1 (SPECIAL EXCEPTION)

EASEMENTS: REFER TO SHEETS A-7 THROUGH A-10 FOR EXISTING AND PROPOSED EASMENT INFORMATION.

TREE LOCATION: THE PROPOSED DEVELOPMENT AND ITS ORIENTATION TO THE EXISTING TREES IS SHOWN ON THE AERIAL PHOTOGRAPH. TREES WILL BE PRESERVED WHERE POSSIBLE. TREE REMOVAL PERMIT WILL BE APPLIED FOR PRIOR TO CONSTRUCTION.

NOTE: THE SUBJECT PROPERTY LIES IN FLOOD ZONE "X" AND FLOOD ZONE "AE" (ELEV. 10) ACCORDING TO FLOOD INSURANCE RATE MAP FOR SARASOTA COUNTY, FLORIDA, COMMUNITY NO. 12515C0244F, DATED NOVEMBER 4, 2016, AND ISSUED BY THE FEDERAL EMERGENCY

FEMA DATUM IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).

ENVIRONMENTAL AND SURFACE WATER MANAGEMENT SYSTEM DRAINAGE SYSTEM WILL BE PRIVATELY MAINTAINED

WELLS: THERE ARE NO KNOWN WELLS WITHIN PROJECT BOUNDARY

29.87

<u>43.72%</u>

ADA: ALL SIDEWALK STREET CROSSINGS AT CURBS, GUTTERS AND INTERSECTIONS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES

LANDSCAPE PLANS: INCLUDED WITH THIS SUBMITTAL

TREE MITIGATION PLANS: TO BE SUBMITTED ONCE TREE SURVEY IS COMPLETE

STIPULATIONS FROM ORDINANCE 2017-20:

1. THE PROPERTY WILL ONLY BE USED FOR MULTI-FAMILY RENTAL UNITS

2. THE HEIGHT LIMIT WILL BE 35 FEET

3. THERE WILL BE NO UNDERSTRUCTURE PARKING

REQUIRED PARKING CALCULATION:

RESIDENTIAL USE: 2 SPACES PER UNIT

PRIVATE CLUBS: 1 SPACE PER THREE SEATS OR 1 SPACE PER 200 SQUARE FEET OF NON-STORAGE AREA

TECO GAS

34240-7844

8261 VICO COURT

COMCAST CABLE

5205 FRUITVILLE ROAD

SARASOTA, FLORIDA

SARASOTA, FLORIDA

REQUIRED PARKING SPACES = 239 UNITS * 2 SPACES + 7,078 SF AMENITY CENTER * (1 SPACE PER 200 SF) = 478 SPACES + 36 SPACES TOTAL SPACES REQUIRED = 514 SPACES REQUIRED (11 ADA)

PARKING SPACES PROVIDED: PROVIDED PARKING SPACES = 36 SPACES (AMENITY CENTER) + 499 SPACES (RESIDENTIAL)

TOTAL SPACES PROVIDED = 535 SPACES PROVIDED (12 ADA)

UTILITY COMPANIES:

5657 NORTH McINTOSH SARASOTA, FLORIDA

FRONTIER 1701 RINGLING BLVD. SARASOTA, FLORIDA

941-906-6711 VENICE UTILITIES 401 W. VENICE AVE. VENICE, FL 34285

(941)882-7297 **CONTACT: PATIENCE ANATASIO**

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

KYLE C. KRAGEL FLA. P.E. LICENSE # 88712 CA. NO. 00000696

DATE:

GENERAL CONSTRUCTION NOTES

- 1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
- 3. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. A LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
- 6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
- 7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
- 8. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
- 11. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.
- 12. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.

DEMOLITION NOTES

- ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
- 2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
- 3. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN FOR DEMOLITION/PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE PRESERVED OR RELOCATED SHALL BE REMOVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.

PAVING, GRADING AND DRAINAGE NOTES

- 1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN COUNTY'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.
- 2. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
- 3. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- 4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
- 5. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.
- 6. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
- 7. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
- 8. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
- 9. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
- 10. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
- 11. STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
- 12. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- 13. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
- 14. ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- 16. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302, FLORIDA ADMINISTRATIVE CODE.
- 17. SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.
- 18. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.
- 19. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
- 20. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.

WATER AND SEWER UTILITY NOTES

- 1. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- 2. ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET.
- 3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
- 4. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
- 5. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 6. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
- 7. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- UNDERGROUND LINES SHALL BE SURVEYED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.
- 9. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.

EROSION CONTROL NOTES

- 1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THIS EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- 2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS
- 3. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- 4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
- 5. EROSION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- 6. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- 7. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
- 8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- 9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- 11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- 12. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.

EROSION CONTROL NOTES (CONT.)

- 13. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY CEASED.
- 14. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED IN THESE AREAS. REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS FOR SEEDING AND MAINTENANCE REQUIREMENTS.
- 15. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- 16. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- 18. ON-SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- 19. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- 20. DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION.
- 21. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

<u>MAINTENANCE</u>

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- 1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
- 2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS.
- 3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
- 4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
- THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
- OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 55 CUBIC YARDS / ACRE.
- 7. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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KYLE C. KRAGEL FLORIDA LICENSE NUMBER 88712

COLOBER 2020

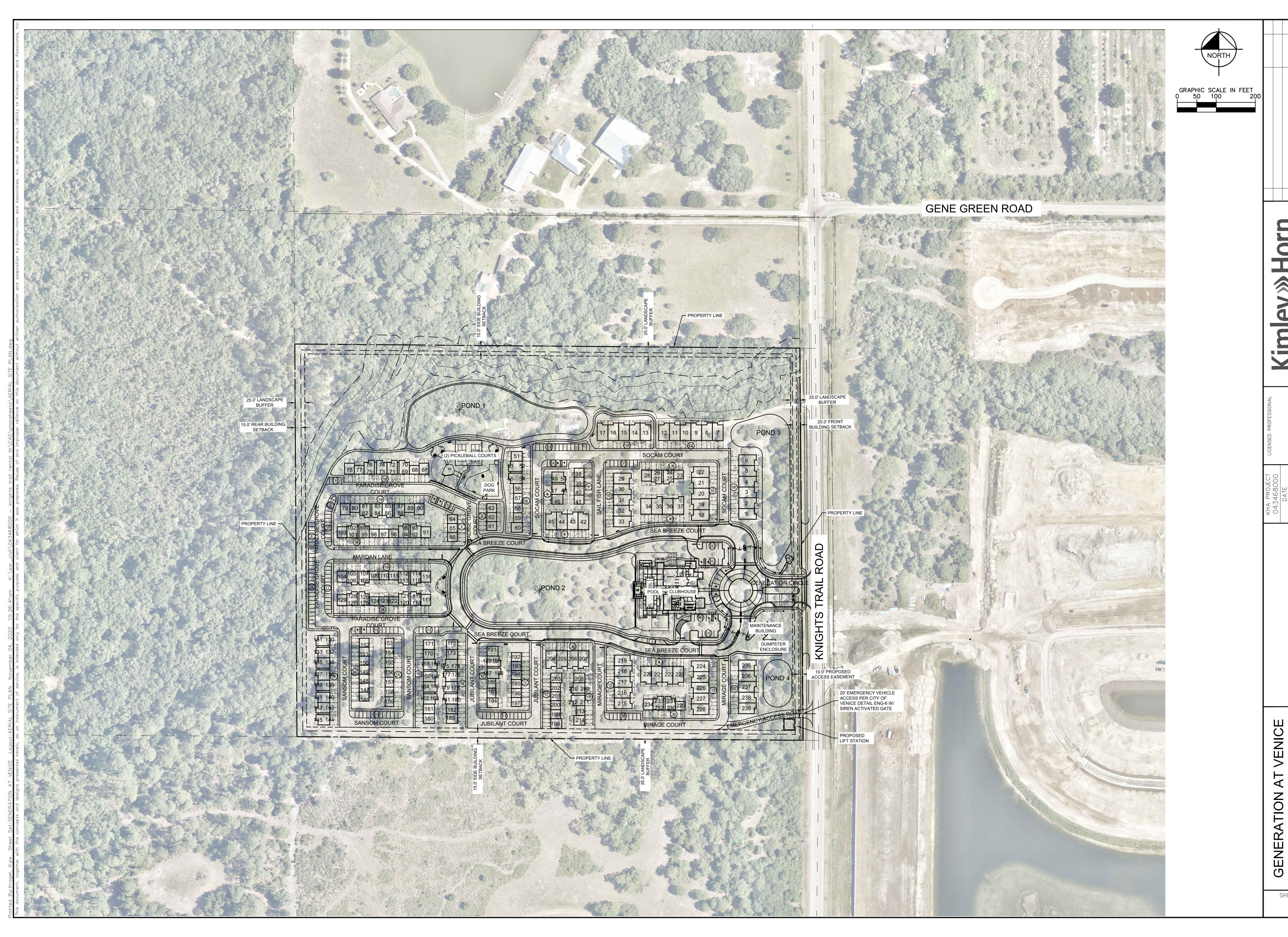
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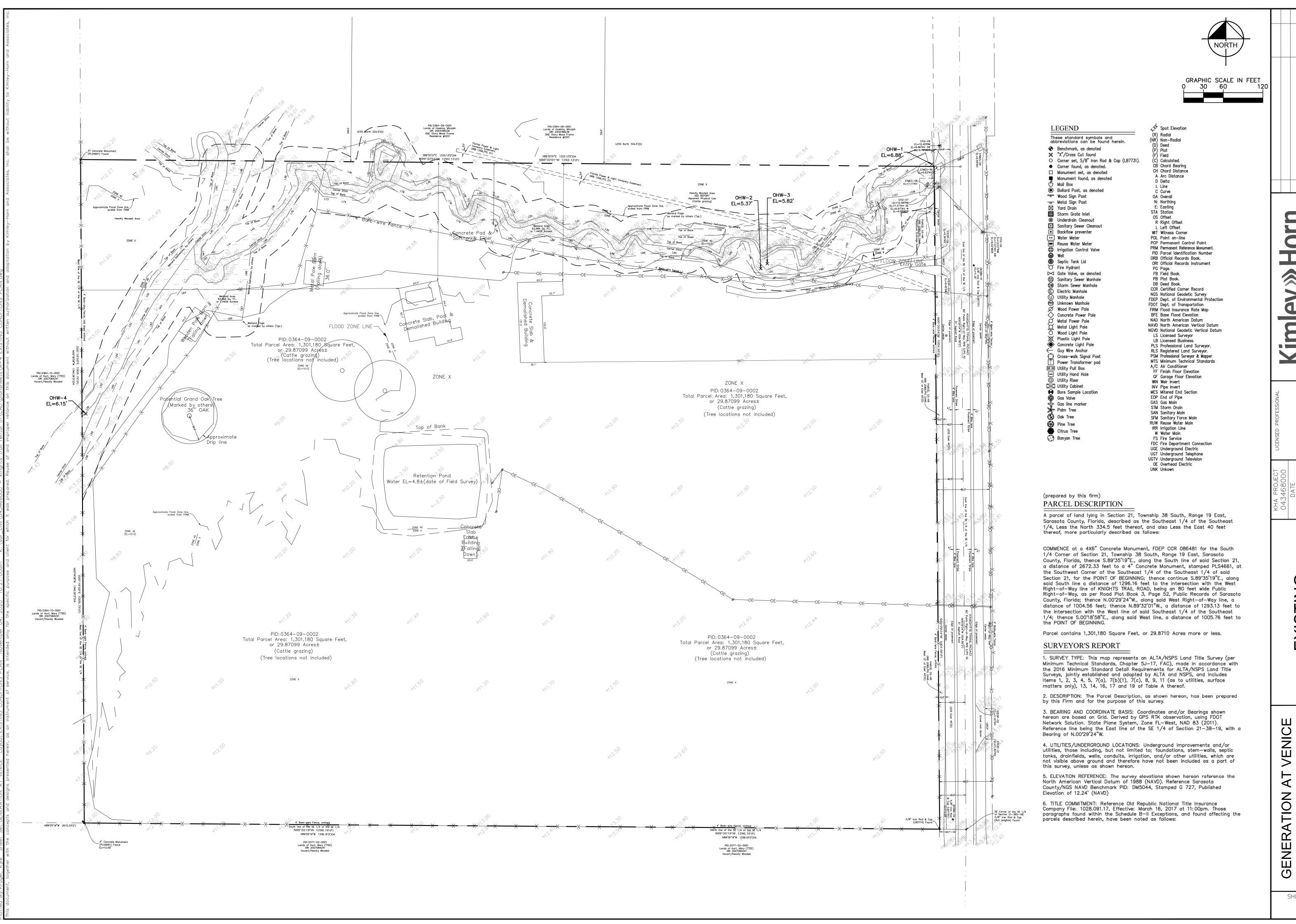
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SITE **AERIAL**

GENERATION AT SHEET NUMBER

A-3



No.

OF INC.

20 KIMLEY-HORN AND ASSOCIATES, INC N STREET, SUITE 200, SARASOTA, FL 3 PHONE: 941-379-7600 WW.KIMLEY-HORN.COM CA 00000696

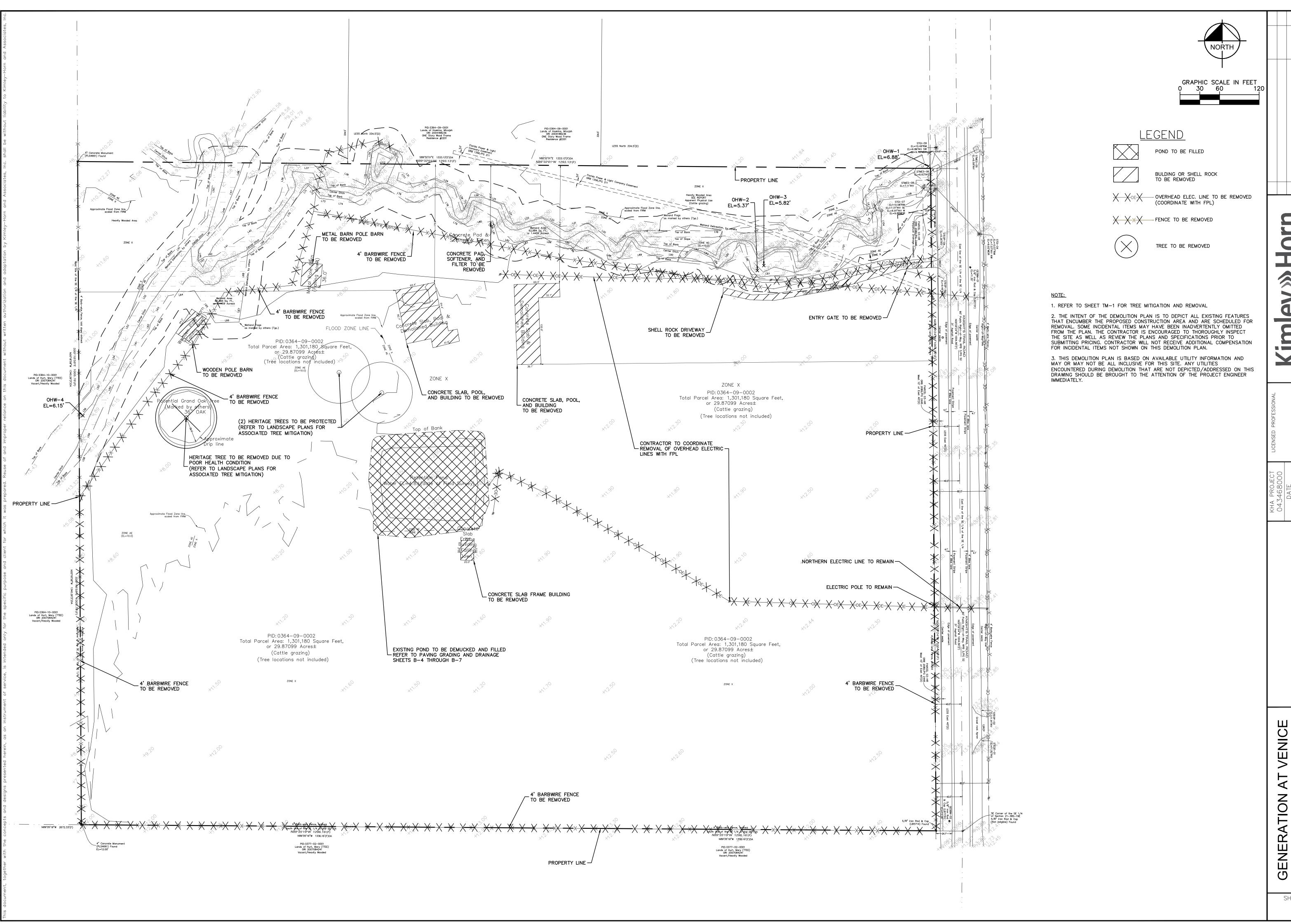
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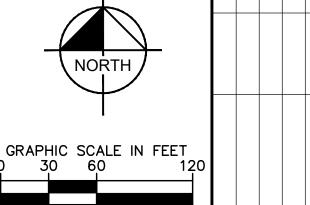
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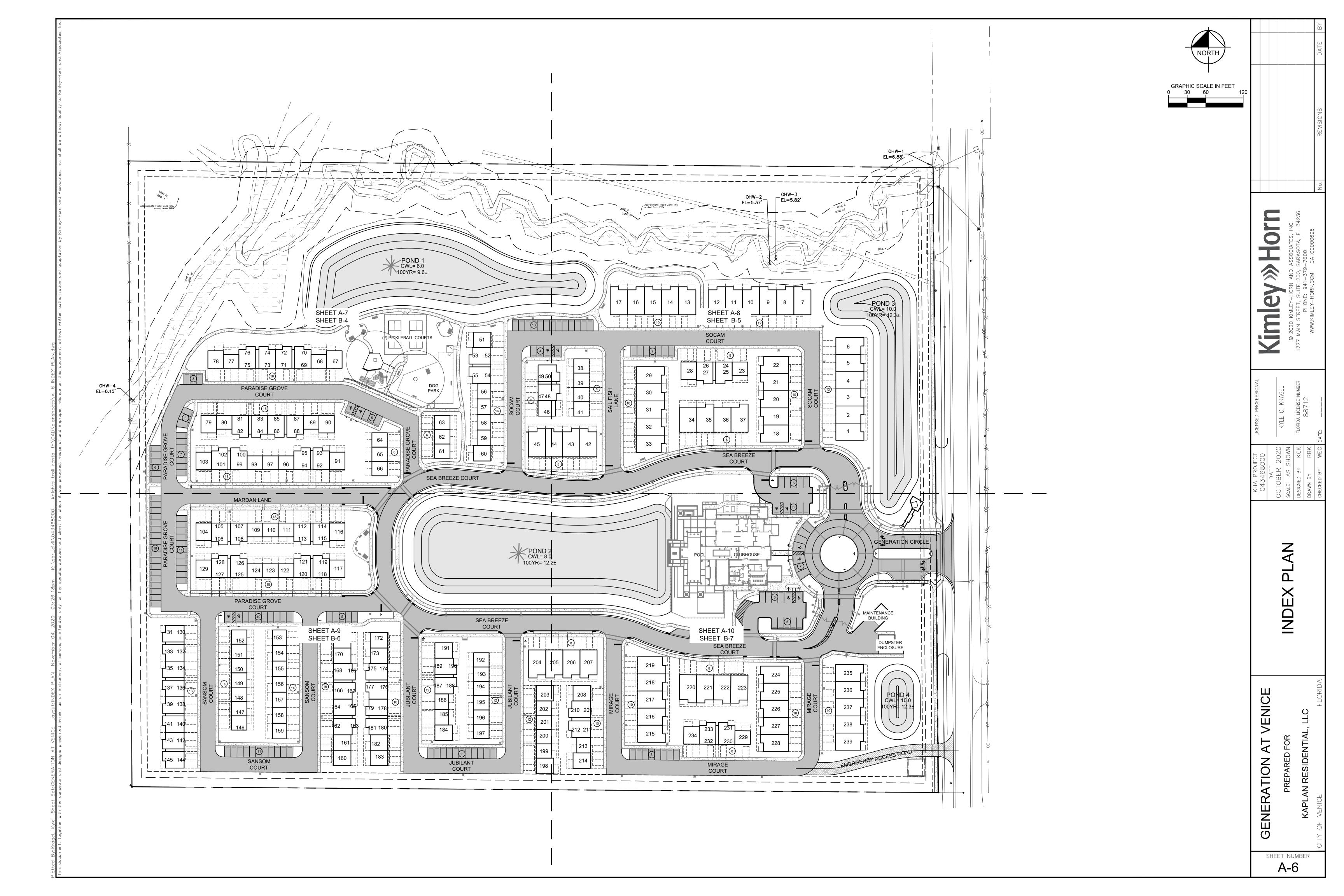
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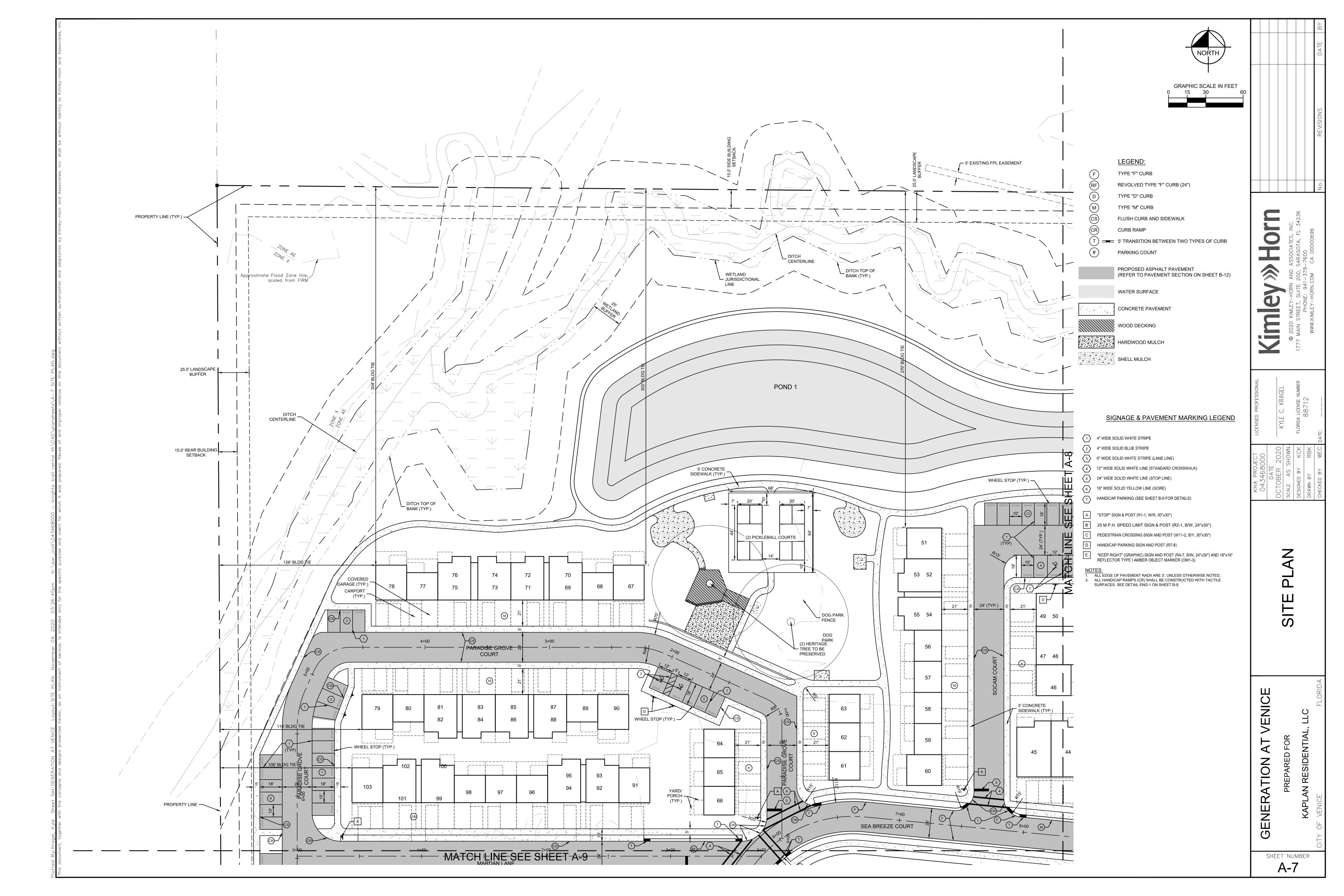
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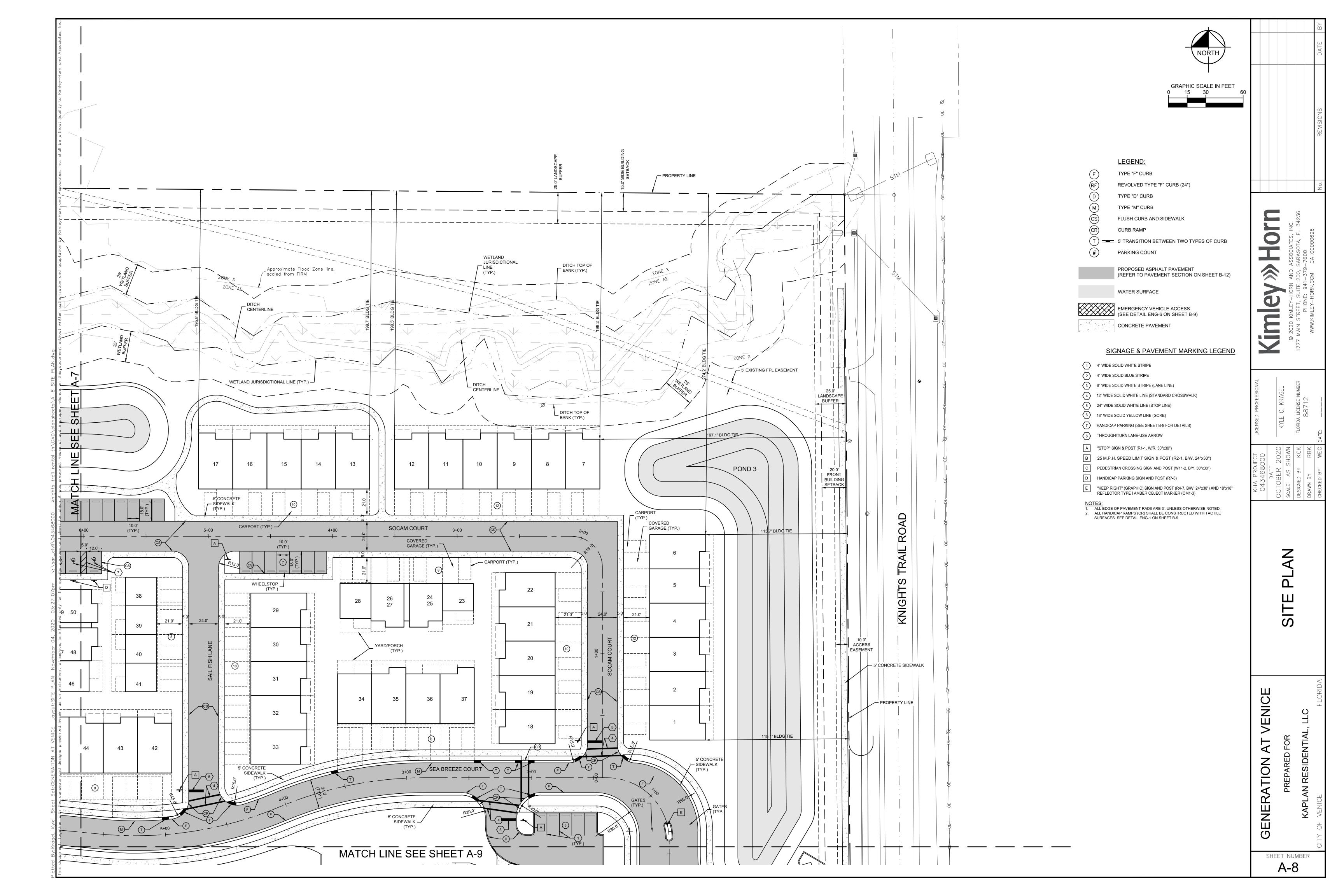


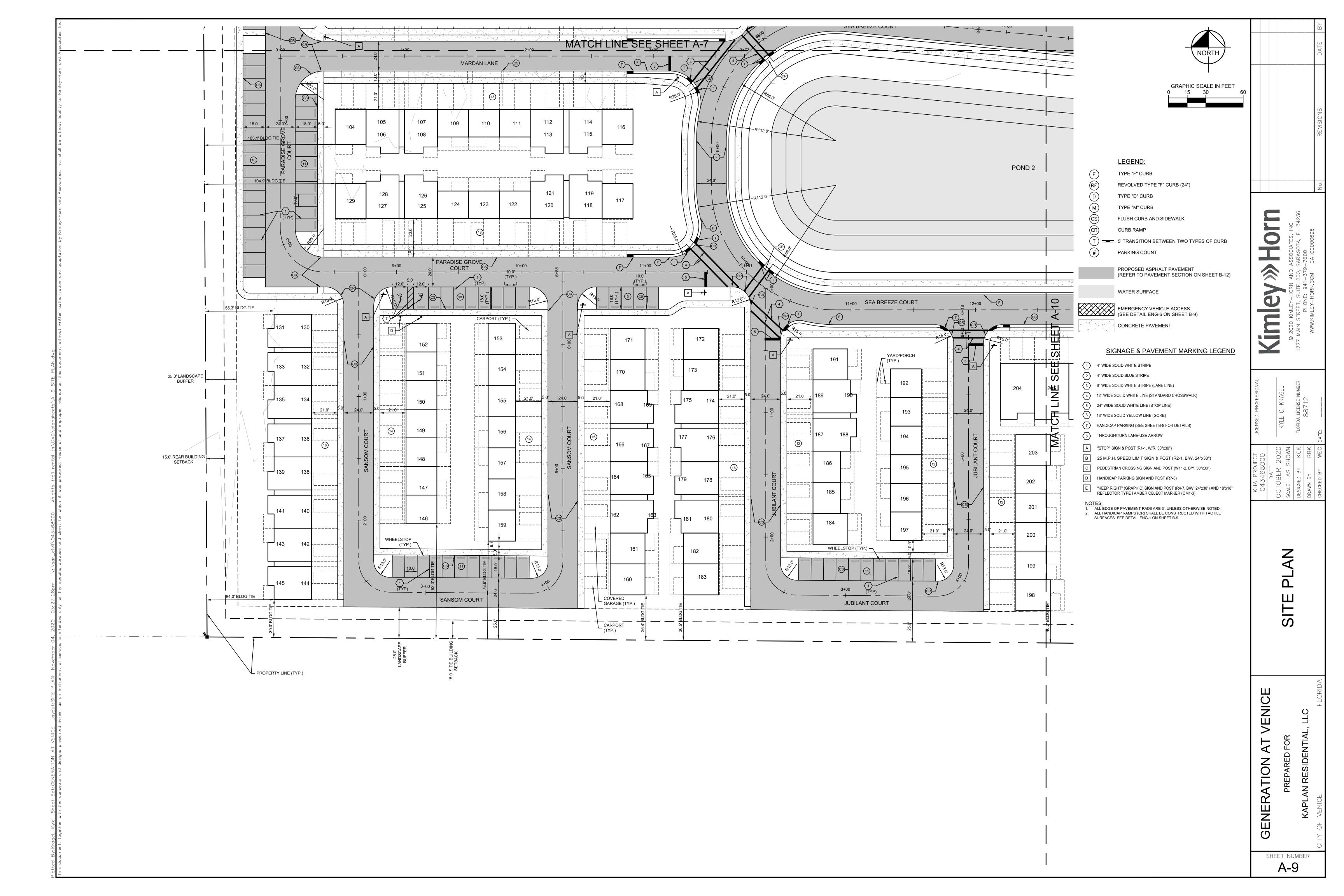


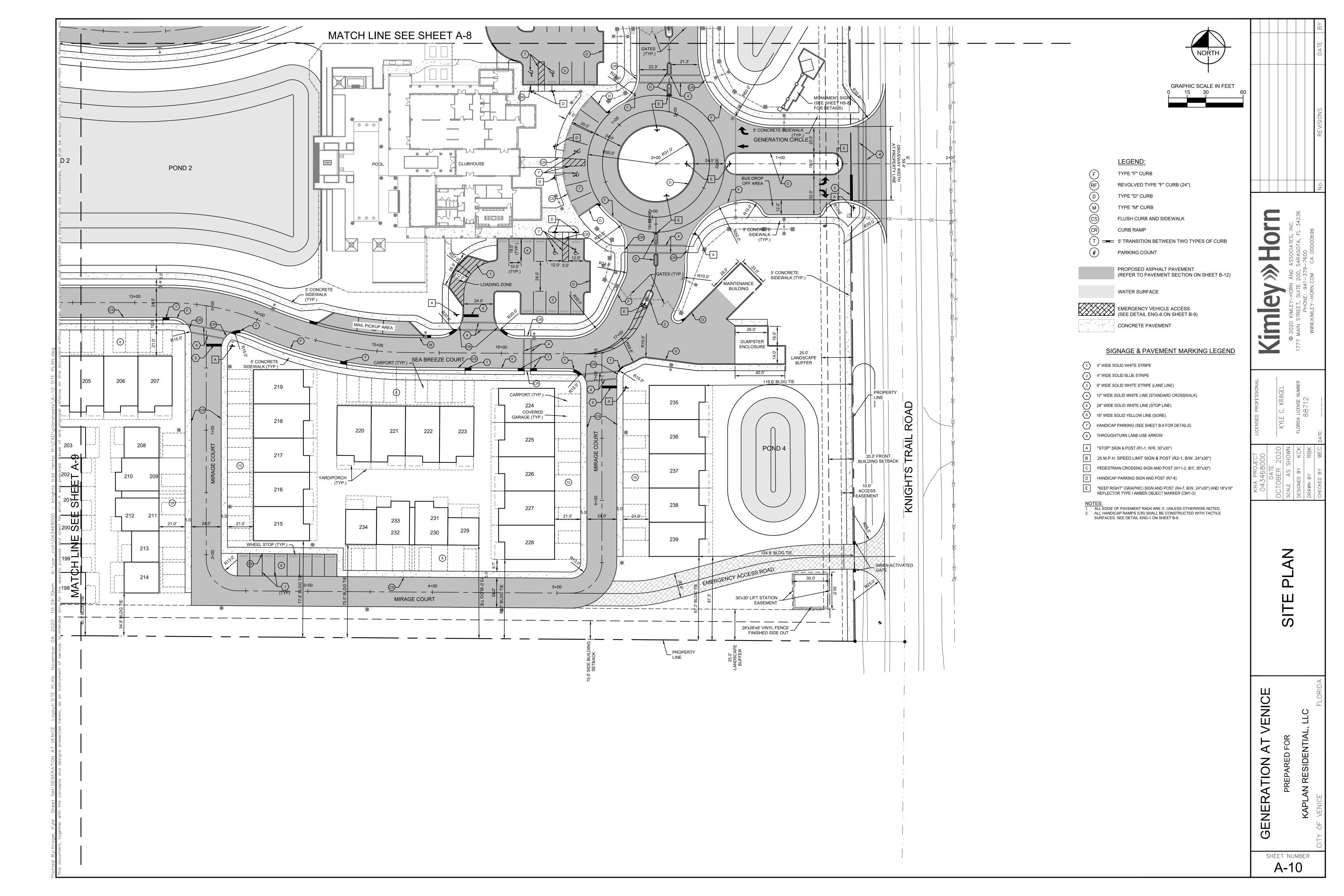
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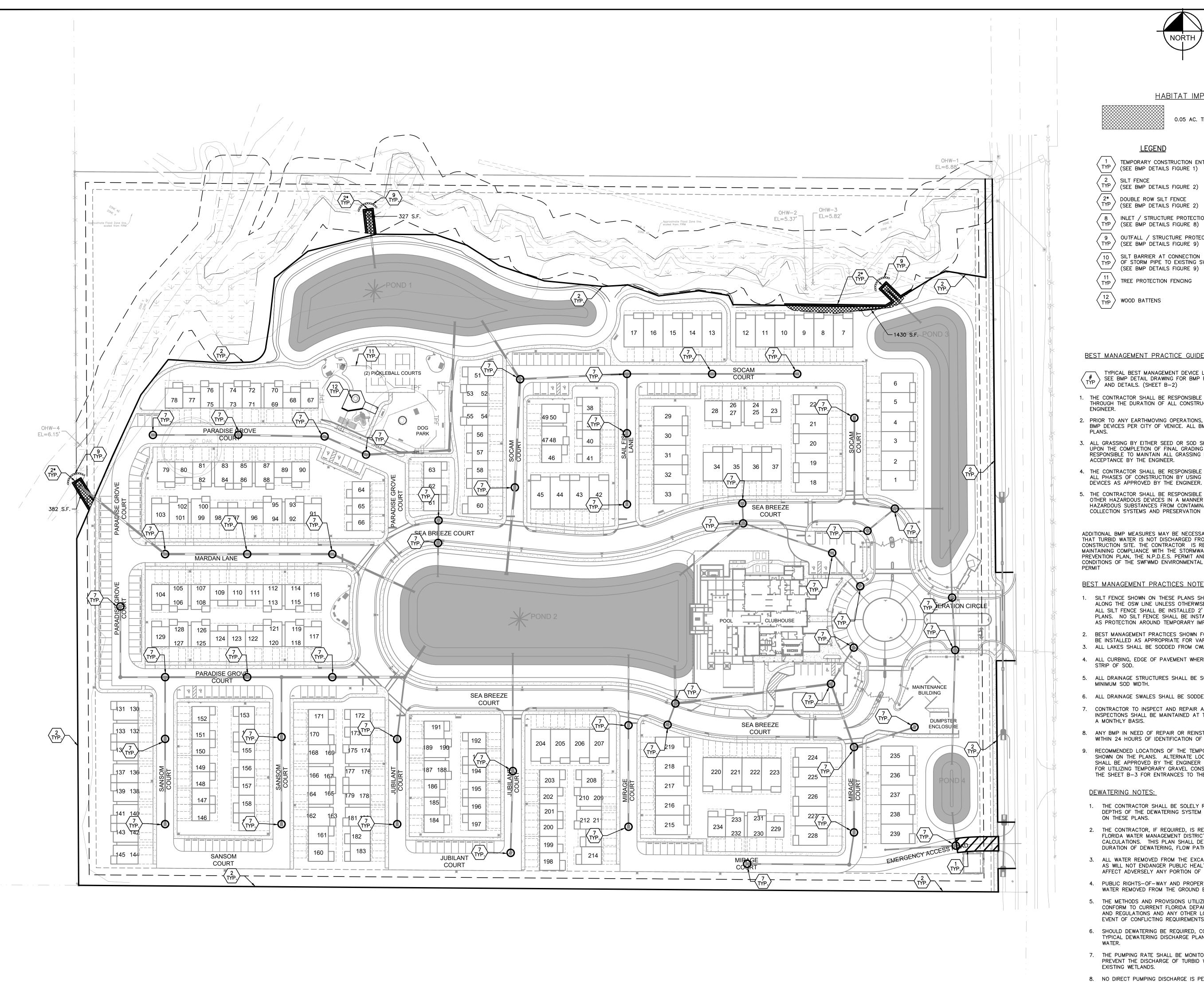




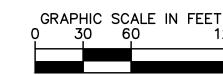




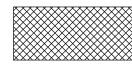








HABITAT IMPACT LEGEND



0.05 AC. TEMPORARY WETLAND BUFFER IMPACT

<u>LEGEND</u>

TEMPORARY CONSTRUCTION ENTRANCE \TYP/ (SEE BMP DETAILS FIGURE 1)

SILT FENCE (SEE BMP DETAILS FIGURE 2)

TYP / (SEE BMP DETAILS FIGURE 2) 8 \ INLET / STRUCTURE PROTECTION

TYP (SEE BMP DETAILS FIGURE 8)

OUTFALL / STRUCTURE PROTECTION TYP / (SEE BMP DETAILS FIGURE 9)

SILT BARRIER AT CONNECTION TYP OF STORM PIPE TO EXISTING SWALE (SEE BMP DETAILS FIGURE 9)

TREE PROTECTION FENCING

 $\left\langle \begin{array}{c} 12 \\ \text{TYP} \right\rangle$ WOOD BATTENS

BEST MANAGEMENT PRACTICE GUIDELINES

- TYPICAL BEST MANAGEMENT DEVICE LOCATION. SEE BMP DETAIL DRAWING FOR BMP PLACEMENT AND DETAILS. (SHEET B-2)
- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY BMP DEVICES THROUGH THE DURATION OF ALL CONSTRUCTION ACTIVITIES OR AS DIRECTED BY THE
- 2. PRIOR TO ANY EARTHMOVING OPERATIONS, THE CONTRACTOR SHALL INSTALL ALL REQUIRED BMP DEVICES PER CITY OF VENICE. ALL BMP DEVICES SHALL BE LOCATED AS SHOWN ON
- 3. ALL GRASSING BY EITHER SEED OR SOD SHALL BE INSTALLED AS SOON AS PRACTICAL UPON THE COMPLETION OF FINAL GRADING OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL GRASSING IN A HEALTHY GROWING ENVIRONMENT UNTIL ACCEPTANCE BY THE ENGINEER.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF WIND AND DUST DURING ALL PHASES OF CONSTRUCTION BY USING WATER TRUCKS, WIND FENCING OR OTHER
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE TO SAFELY STORE EQUIPMENT, FUEL, OIL AND OTHER HAZARDOUS DEVICES IN A MANNER TO PREVENT GREASE, OIL, FUEL AND OTHER HAZARDOUS SUBSTANCES FROM CONTAMINATING THE STORMWATER MANAGEMENT AND COLLECTION SYSTEMS AND PRESERVATION AREAS.

ADDITIONAL BMP MEASURES MAY BE NECESSARY TO ENSURE THAT TURBID WATER IS NOT DISCHARGED FROM THE CONSTRUCTION SITE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN, THE N.P.D.E.S. PERMIT AND THE CONDITIONS OF THE SWFWMD ENVIRONMENTAL RESOURCE

BEST MANAGEMENT PRACTICES NOTES:

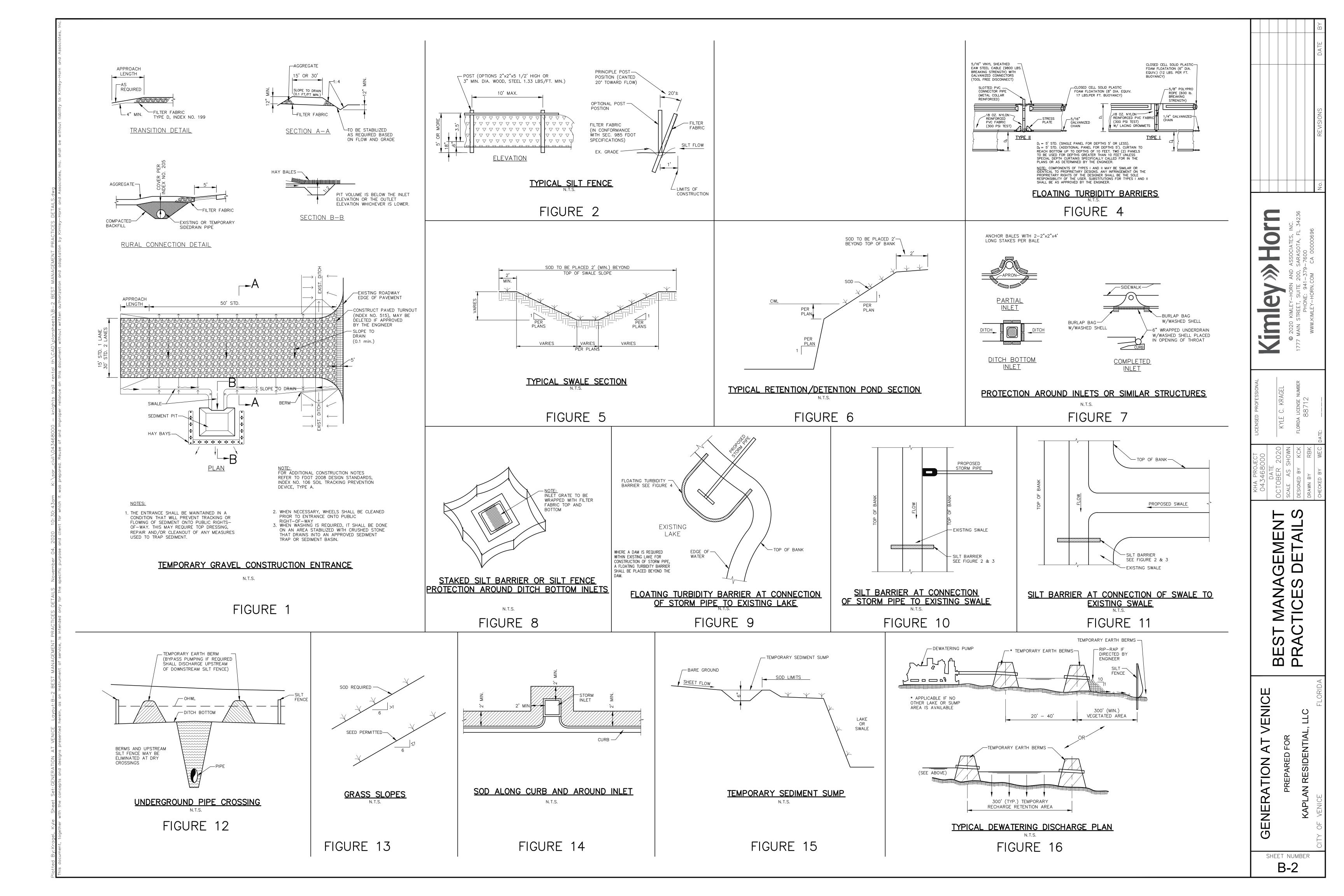
- 1. SILT FENCE SHOWN ON THESE PLANS SHALL BE INSTALLED IN THE LOCATIONS INDICATED AND ALONG THE OSW LINE UNLESS OTHERWISE NOTED ON THE PLANS. IF THERE IS A OSW IMPACT, ALL SILT FENCE SHALL BE INSTALLED 2' WATER WARD OF TOE OF SLOPE AS SHOWN ON THESE PLANS. NO SILT FENCE SHALL BE INSTALLED IN PRESERVED WETLANDS OR UPLANDS EXCEPT AS PROTECTION AROUND TEMPORARY IMPACTS.
- 2. BEST MANAGEMENT PRACTICES SHOWN FOR OPEN THROAT AND GRATED SWALE INLETS SHALL BE INSTALLED AS APPROPRIATE FOR VARIOUS PROJECT PHASES.
- 3. ALL LAKES SHALL BE SODDED FROM CWL TO 2' BACK OF LAKE CONTROL LINE (TOP OF BANK).
- 4. ALL CURBING, EDGE OF PAVEMENT WHERE CURB IS NOT PRESENT SHALL HAVE A 2' WIDE
- 5. ALL DRAINAGE STRUCTURES SHALL BE SODDED ALONG THE EDGE OF THE STRUCTURE 2'
- 6. ALL DRAINAGE SWALES SHALL BE SODDED TO 2' BACK OF TOP OF BANK.
- CONTRACTOR TO INSPECT AND REPAIR ALL BMP's ON A WEEKLY BASIS. A LOG OF SUCH INSPECTIONS SHALL BE MAINTAINED AT THE SITE AND WILL BE SUBMITTED TO THE DISTRICT ON A MONTHLY BASIS.
- 8. ANY BMP IN NEED OF REPAIR OR REINSTALLATION SHALL BE CORRECTED BY THE CONTRACTOR WITHIN 24 HOURS OF IDENTIFICATION OF THE NEED FOR SUCH CORRECTION.
- 9. RECOMMENDED LOCATIONS OF THE TEMPORARY GRAVEL CONSTRUCTION ENTRANCES HAVE BEEN SHOWN ON THE PLANS. ALTERNATE LOCATIONS CAN BE PROPOSED BY THE CONTRACTOR AND SHALL BE APPROVED BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILIZING TEMPORARY GRAVEL CONSTRUCTION ENTRANCES PER THE DETAIL PROVIDED ON THE SHEET B-3 FOR ENTRANCES TO THE PROJECT.

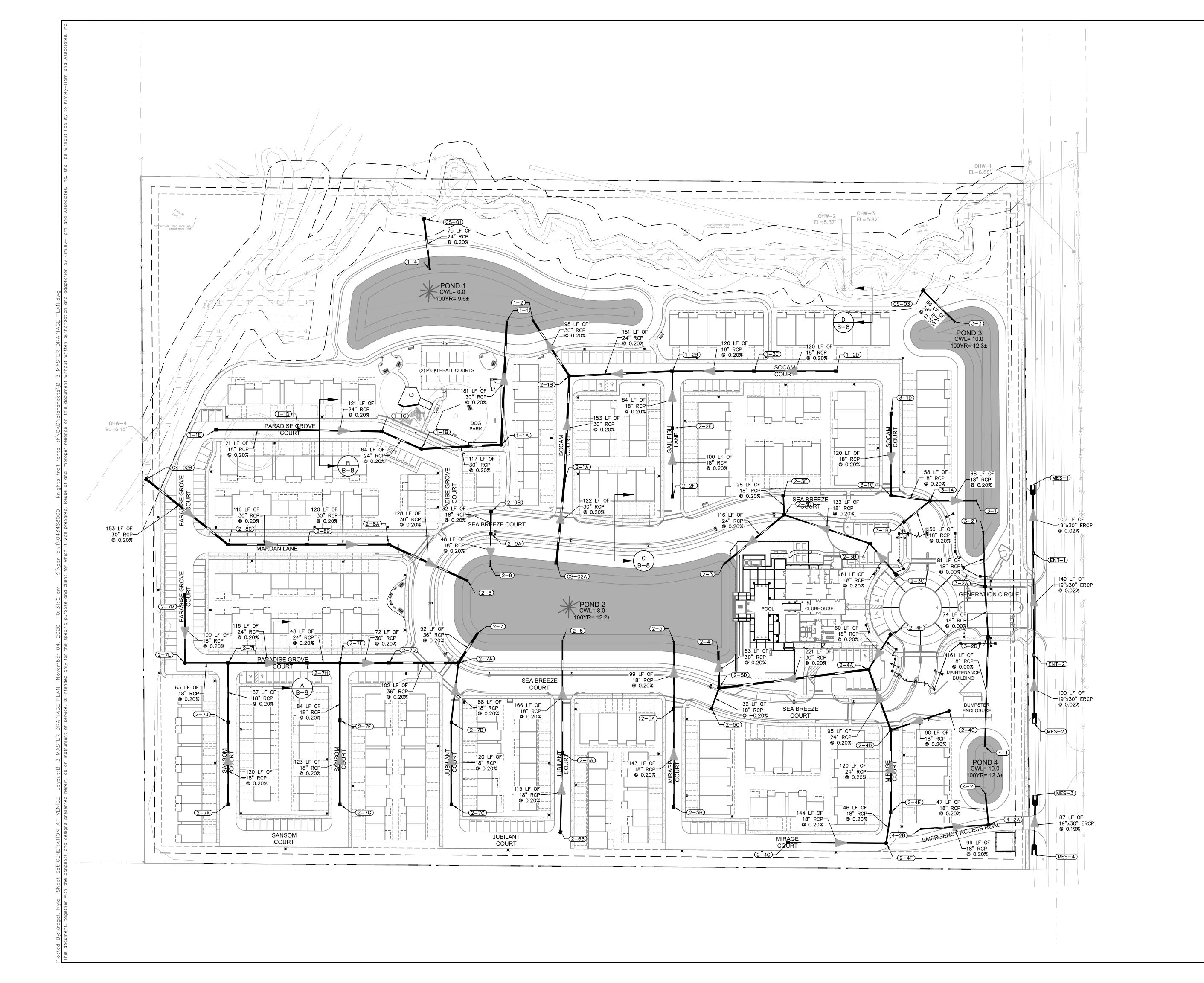
DEWATERING NOTES:

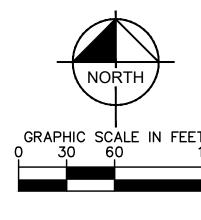
- 1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ARRANGEMENT, LOCATION AND DEPTHS OF THE DEWATERING SYSTEM NECESSARY TO ACCOMPLISH THE WORK DESCRIBED ON THESE PLANS.
- 2. THE CONTRACTOR, IF REQUIRED, IS RESPONSIBLE FOR SUBMITTING TO THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT FOR REVIEW A DEWATERING PLAN AND SUPPORTING CALCULATIONS. THIS PLAN SHALL DETAIL THE DEWATERING METHODS PROPOSED, THE DURATION OF DEWATERING, FLOW PATHS, AND POINTS OF DISCHARGE.
- 3. ALL WATER REMOVED FROM THE EXCAVATIONS SHALL BE DISPOSED OF IN SUCH A MANNER AS WILL NOT ENDANGER PUBLIC HEALTH, DAMAGE PUBLIC OR PRIVATE PROPERTY, OR AFFECT ADVERSELY ANY PORTION OF THE WORK UNDER CONSTRUCTION OR COMPLETED.
- 4. PUBLIC RIGHTS-OF-WAY AND PROPERTIES SHALL NOT BE UTILIZED FOR THE DISPOSAL OF WATER REMOVED FROM THE GROUND BY THE DEWATERING PROCESS.
- 5. THE METHODS AND PROVISIONS UTILIZED TO PREVENT SILTATION AND EROSION SHALL CONFORM TO CURRENT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION PRACTICES AND REGULATIONS AND ANY OTHER LOCAL LEGAL PROVISIONS WHICH MAY APPLY. IN THE EVENT OF CONFLICTING REQUIREMENTS, THE STRICTER REQUIREMENTS SHALL APPLY.
- 6. SHOULD DEWATERING BE REQUIRED, CONTRACTOR IS TO FOLLOW, AT A MINIMUM, THE TYPICAL DEWATERING DISCHARGE PLAN AS DETAILED ON SHEET B-2 FOR ALL PUMPED
- 7. THE PUMPING RATE SHALL BE MONITORED AND ADJUSTED, IF NECESSARY IN ORDER TO PREVENT THE DISCHARGE OF TURBID WATER INTO THE PUBLIC RIGHTS-OF-WAY OR
- 8. NO DIRECT PUMPING DISCHARGE IS PERMITTED INTO ANY EXISTING WETLANDS.

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RESIDE



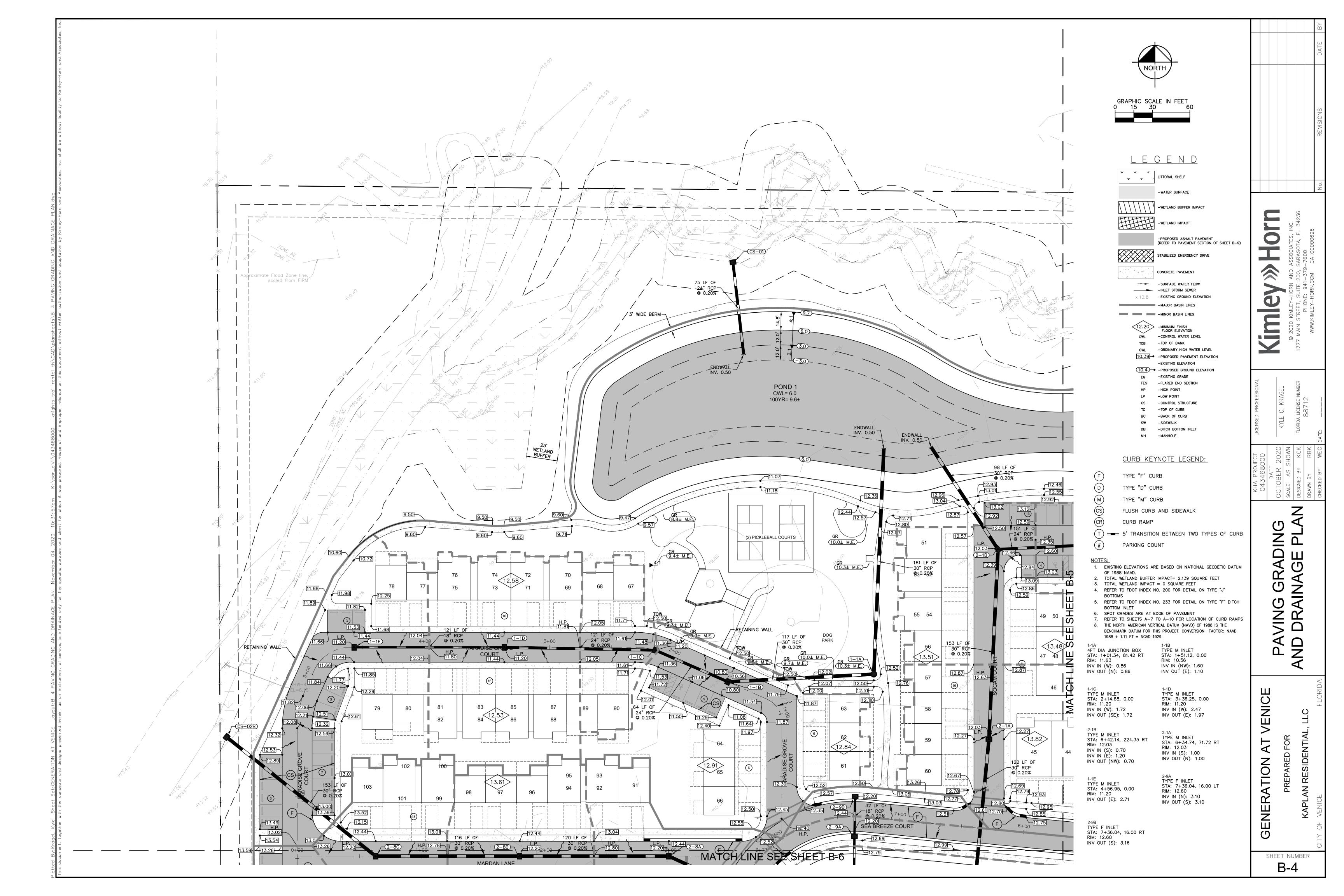


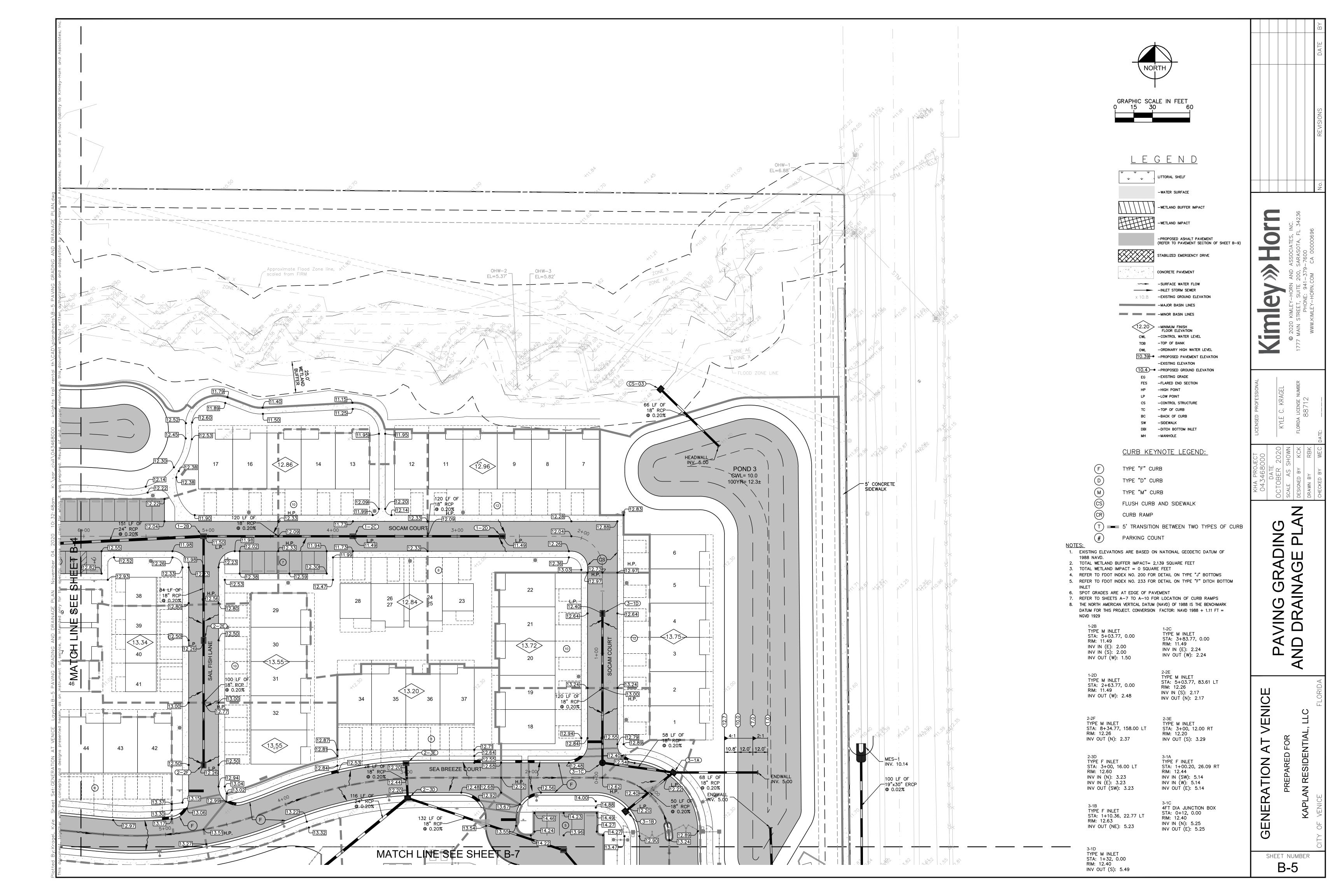


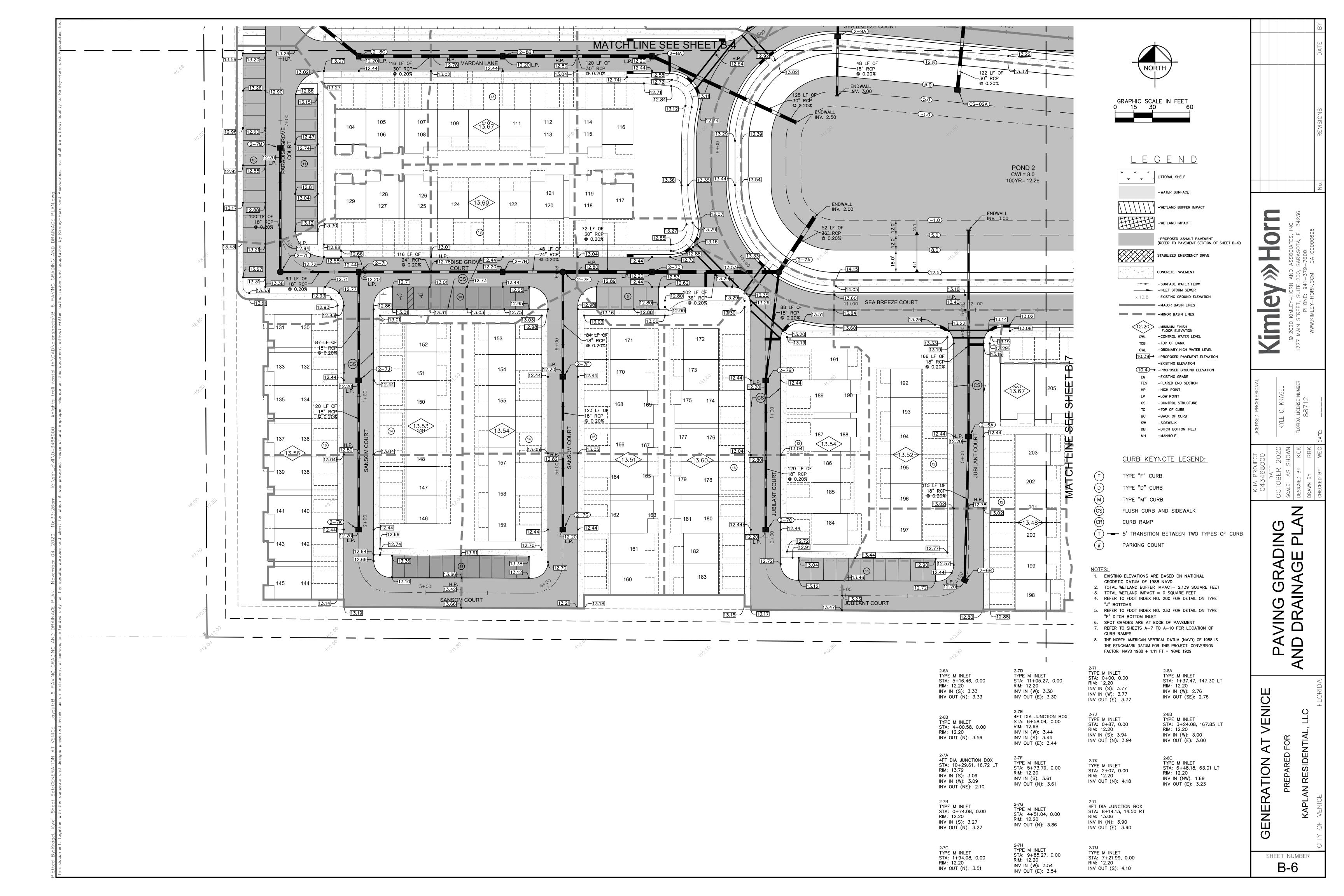
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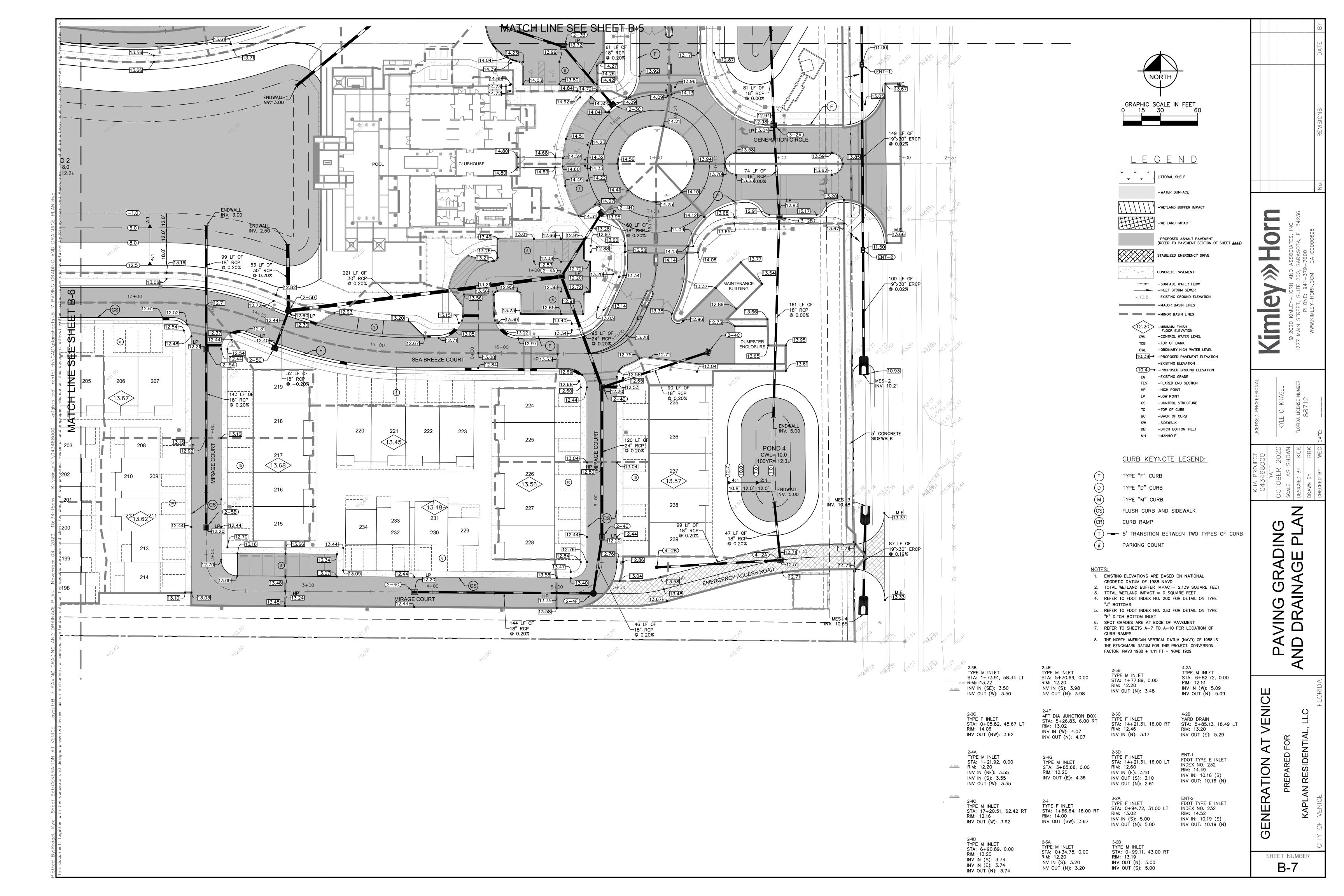
GENERATION

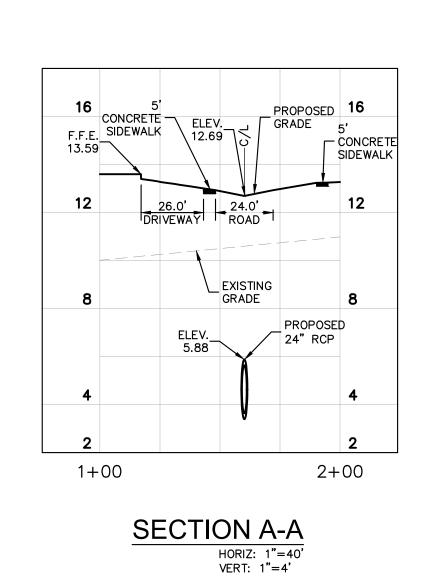
B-3

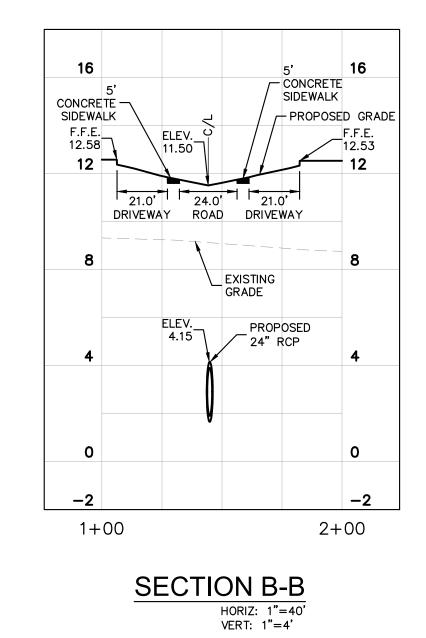


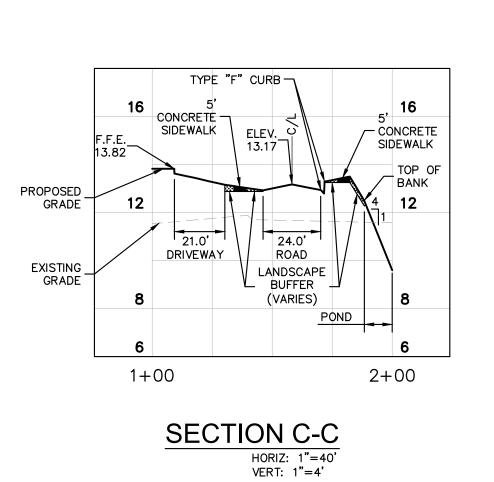


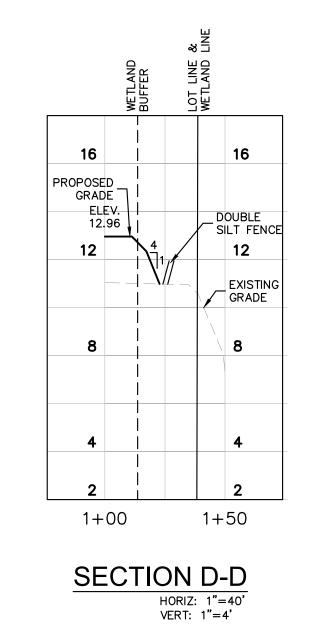


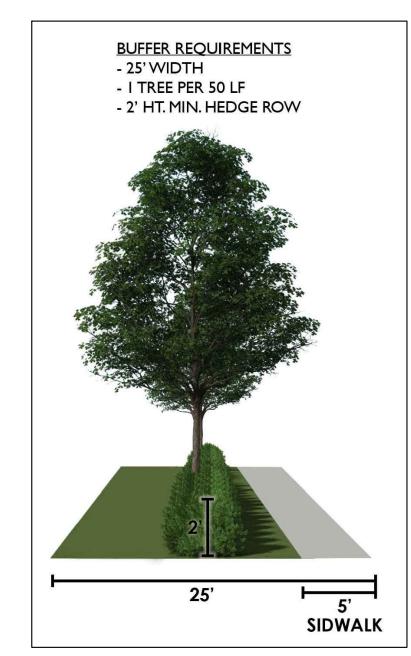




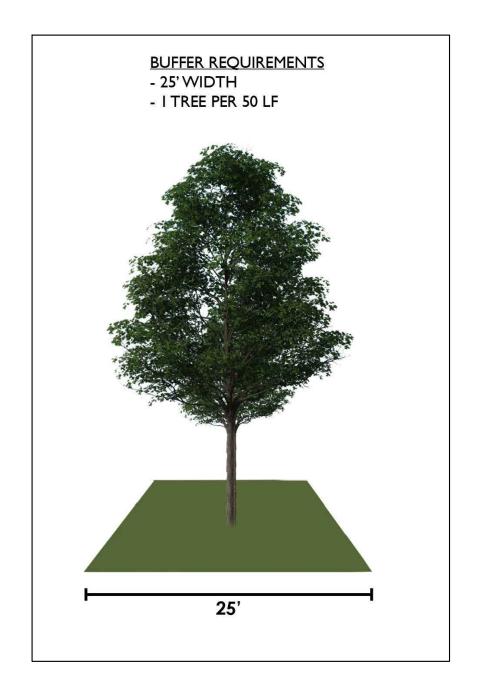










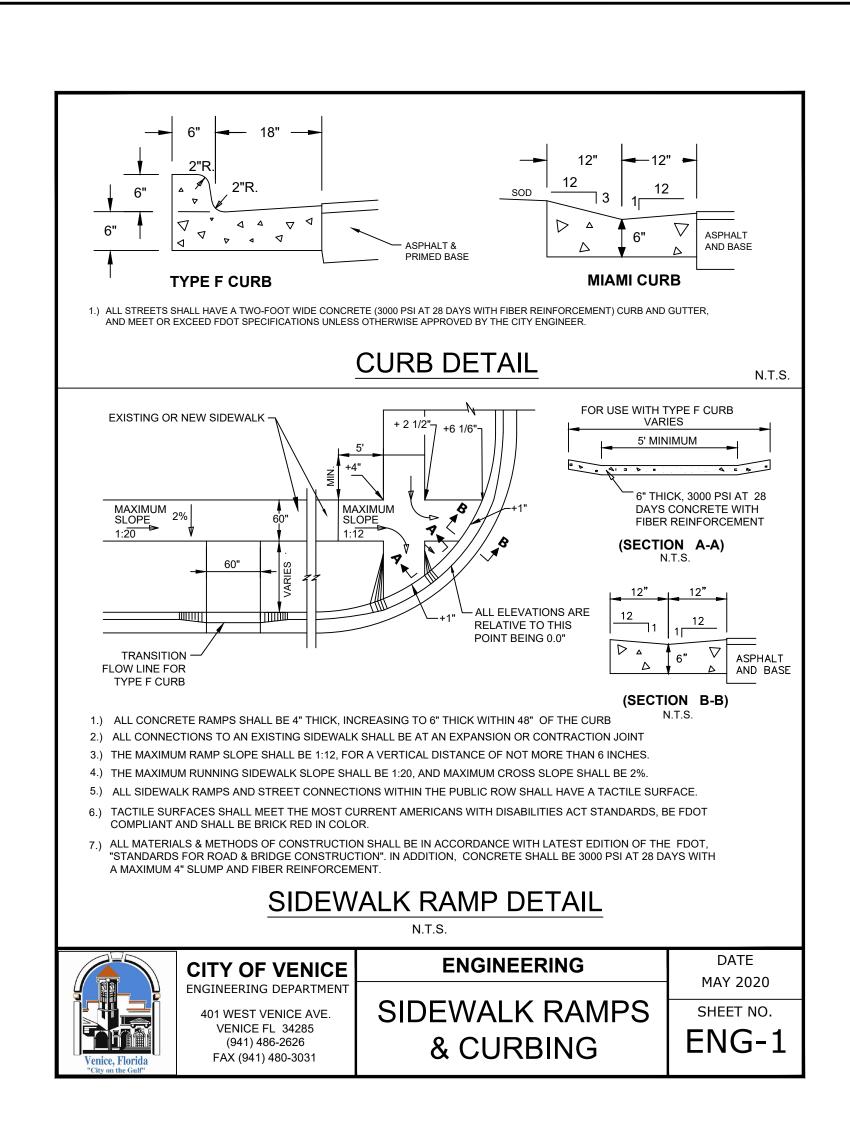


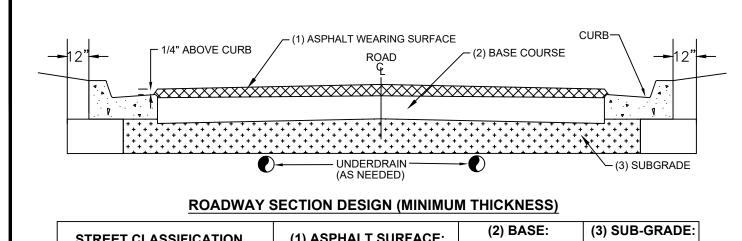
LANDSCAPE BUFFER SECTION
ADJACENT TO PROPERTY LINE

SECTIONS

N AT VENICE GRA

PREPARED FOF KAPLAN RESIDENTI





STREET CLASSIFICATION	(1) ASPHALT SURFACE:	(2) B-12.5	BASE CTB		(3) SUB-GRADE:			
RESIDENTIAL STREET (PRIVATE) & LIGHT DUTY PARKING	2" TYPE SP-9.5 (INSTALLED AS TWO 1" LIFTS)	4"	8"	8"	8" MIN 40 LBR			
RESIDENTIAL STREET (PUBLIC)	2" TYPE SP-9.5 (INSTALLED AS TWO 1" LIFTS)	5"	10"	10"	12" MIN 40 LBR			
INDUSTRIAL STREET (PUBLIC/PRIVATE)	2" TYPE SP-12.5 & 1" TYPE FC-9.5	5"	10"	10"	12" MIN 40 LBR			
COLLECTOR / ARTERIAL STREET	3" TYPE SP-12.5 & 1" TYPE FC-9.5	5"	10"	10"	12" MIN 40 LBR			

- ALL STREETS WITHIN THE CITY LIMITS SHALL MEET THE MINIMUM DESIGN STANDARDS AS ESTABLISHED IN THIS DETAIL.
 ALL INSTALLATION METHODS AND MATERIALS SHALL CONFORM WITH THE LATEST EDITION OF THE FDOT STANDARD
- SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

 3.) CRUSHED CONCRETE AGGREGATE (CCA) MUST HAVE AN LBR ≥150. SHELL IS NOT AN ACCEPTABLE BASE MATERIAL.
- 4.) CEMENT TREATED BASE:
- a.) THE MATERIAL TO BE USED AS THE FILLER AGGREGATE IN CTB MUST BE LBR TESTED PRIOR TO DESIGN FORMULATION (ADDING CEMENT). THIS MATERIAL MUST ACHIEVE AN LBR VALUE OF ≥ 100.
 b.) CTB DESIGN CRITERION SHOULD TARGET RANGE FROM 175 TO 275 PSI ON 7 DAY BREAK. TESTING MUST BE
- PROVIDED TO VERIFY THE COMPRESSIVE STRENGTH OF THE MIX.

 5.) ALL GRANULAR COURSES OF ROAD CONSTRUCTION MUST BE COMPACTED TO 98% OF ITS OPTIMUM DENSITY AS PER T-180
- (AASHTO). CTB SHALL BE COMPACTED TO 98% OF ITS LAB FORMULATION DENSITY (AASHTO T-99).

 6.) ALL MINERAL MATERIALS USED IN CONSTRUCTION OF ROADWAYS MUST MEET THE FOLLOWING CRITERIA:
- a.) FINES (PASSING # 200 SIEVE) MUST BE LIMITED TO ≤ 12%, ORGANICS LIMITED TO ≤ 5%, NO DELETERIOUS MATERIALS.
 7.) SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE FDOT ROADWAY AND TRAFFIC
- DESIGN STANDARDS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD MANUAL).

 8.) ALL CITY STREET SIGNS WILL BE BLUE BACKGROUND WITH 6" WHITE LETTERS AND CONSTRUCTED WITH HIGH INTENSITY REFLECTORIZED MATERIAL. ALL STREET SIGNS SHALL BE 9 INCHES WIDE AND APPROVED BY THE DIRECTOR OF PUBLIC WORKS
- 9.) ALL CURB PADS SHALL MEET THE SAME STRUCTURAL AND COMPACTION STANDARDS AS ROAD SUB GRADE.
- THESE PADS WILL EXTEND TO AT LEAST 12" BEYOND THE CURB.

 10.) UNDERDRAINS OR SIDEDRAINS MAY BE INCLUDED WHEN THE GROUND WATER LEVELS MAY AFFECT THE STRUCTURAL
- INTEGRITY OF THE ROAD. THIS DESIGN SHALL BE THE RESPONSIBILITY OF ENGINEER OF RECORD.

 11.) ANY PROPOSED TRAFFIC CALMING DEVICES MUST BE APPROVED BY THE CITY ENGINEER & FIRE CHIEF.
- 12.) ASPHALT COURSES AND CONCRETE SHALL NOT BE PLACED WHILE RAIN IS FALLING, OR WHEN THERE IS STANDING WATER ON THE SURFACE TO BE COVERED.
- 13.) TACK COAT SHALL BE APPLIED BETWEEN ALL ASPHALT LAYERS.

TYPICAL ROADWAY SECTION

CITY OF VENICE ENGINEERING



ENGINEERING DEPARTMENT

401 WEST VENICE AVE.

VENICE FL 34285

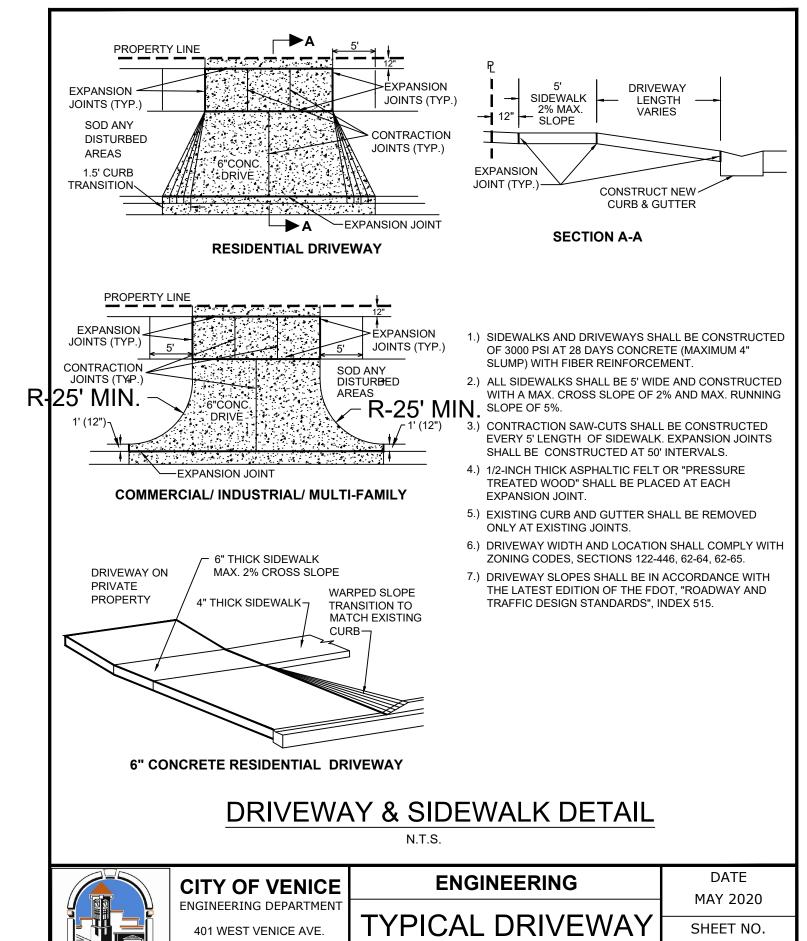
(941) 486-2626

FAX (941) 480-3031

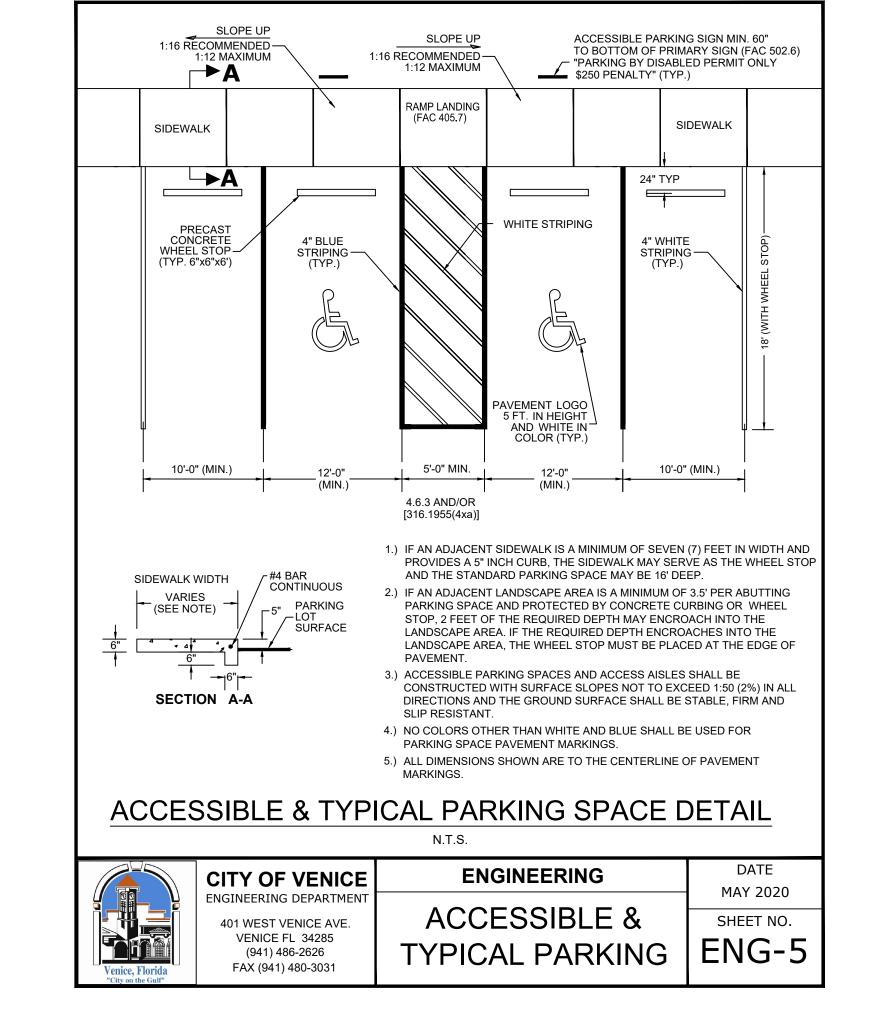
TYPICAL ROADWAY
SECTION

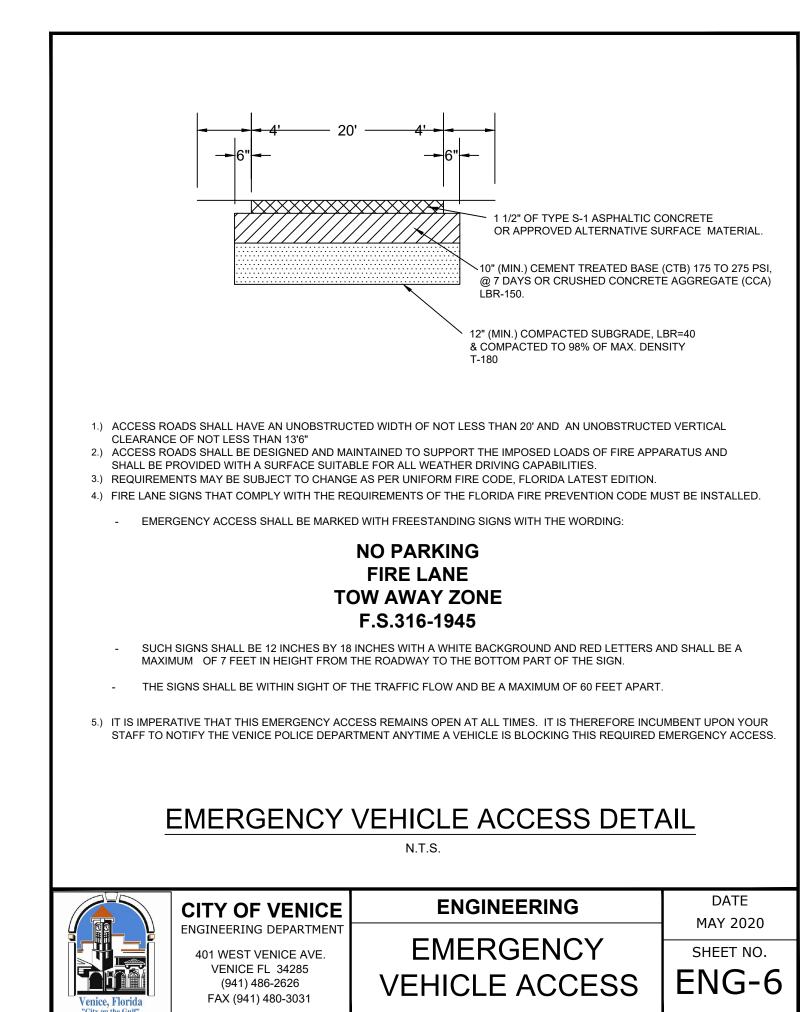
SHEET NO.
ENG-3

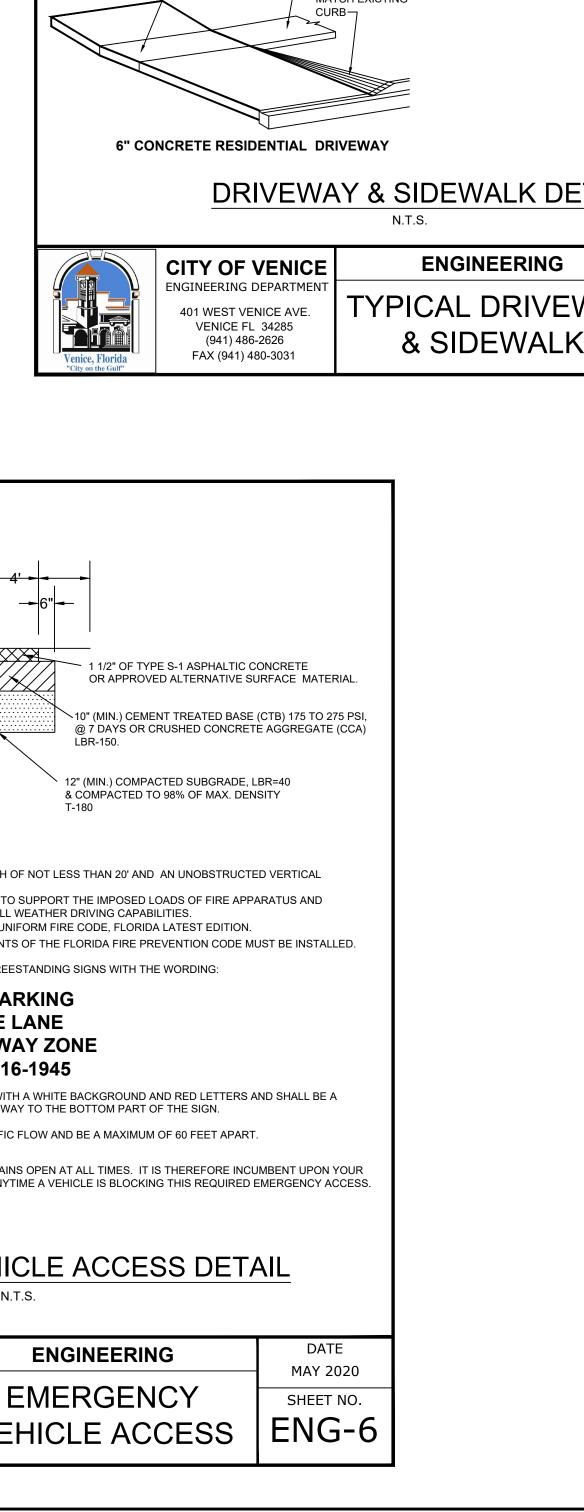
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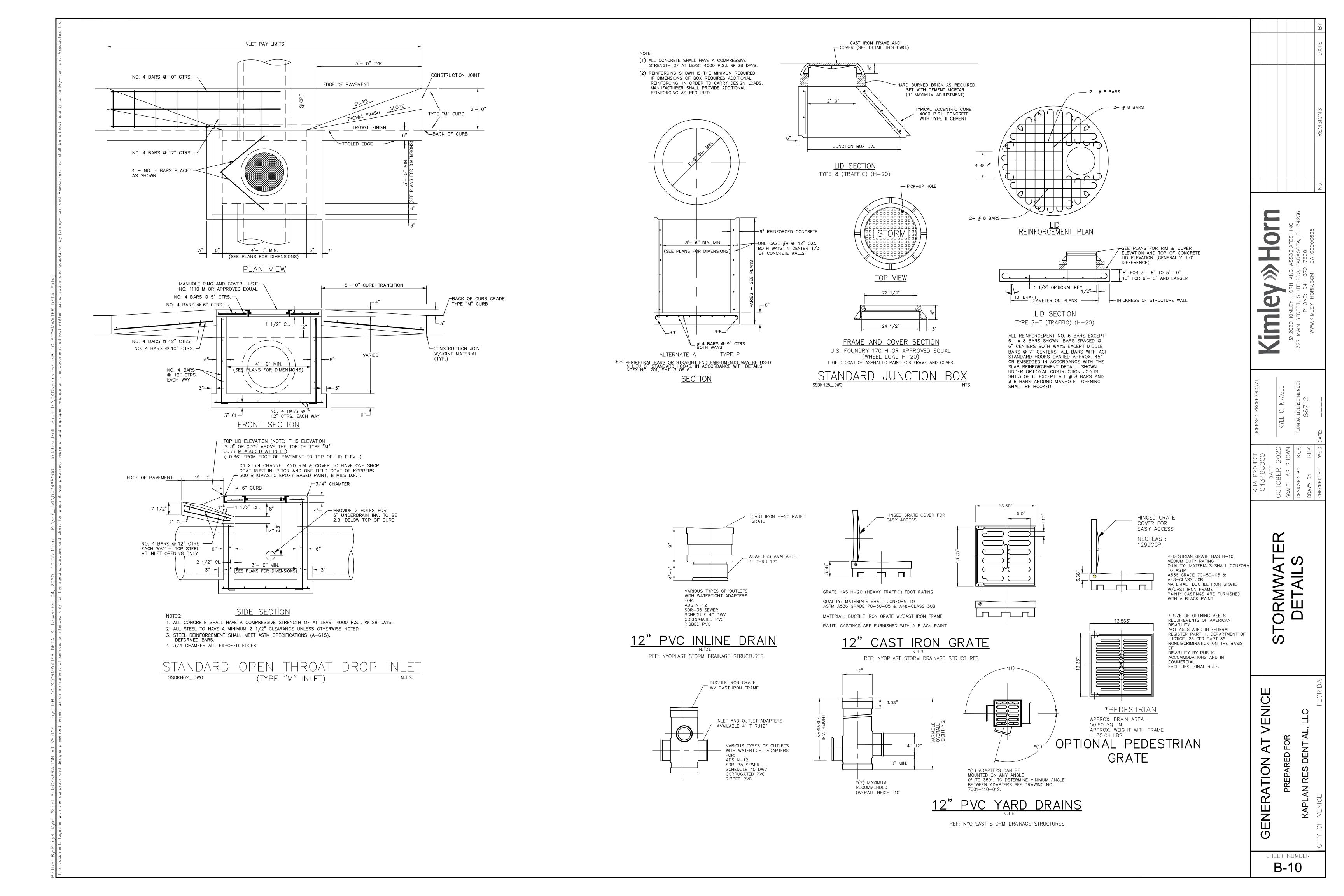
ENG-4





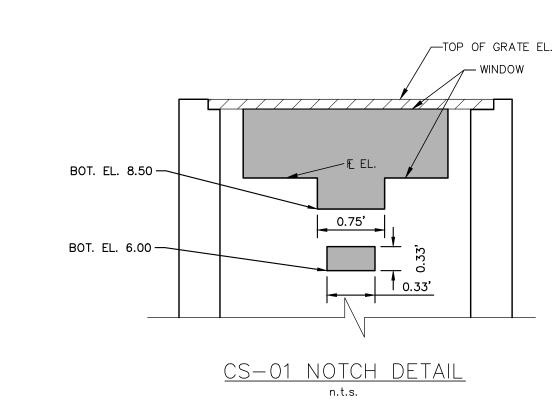


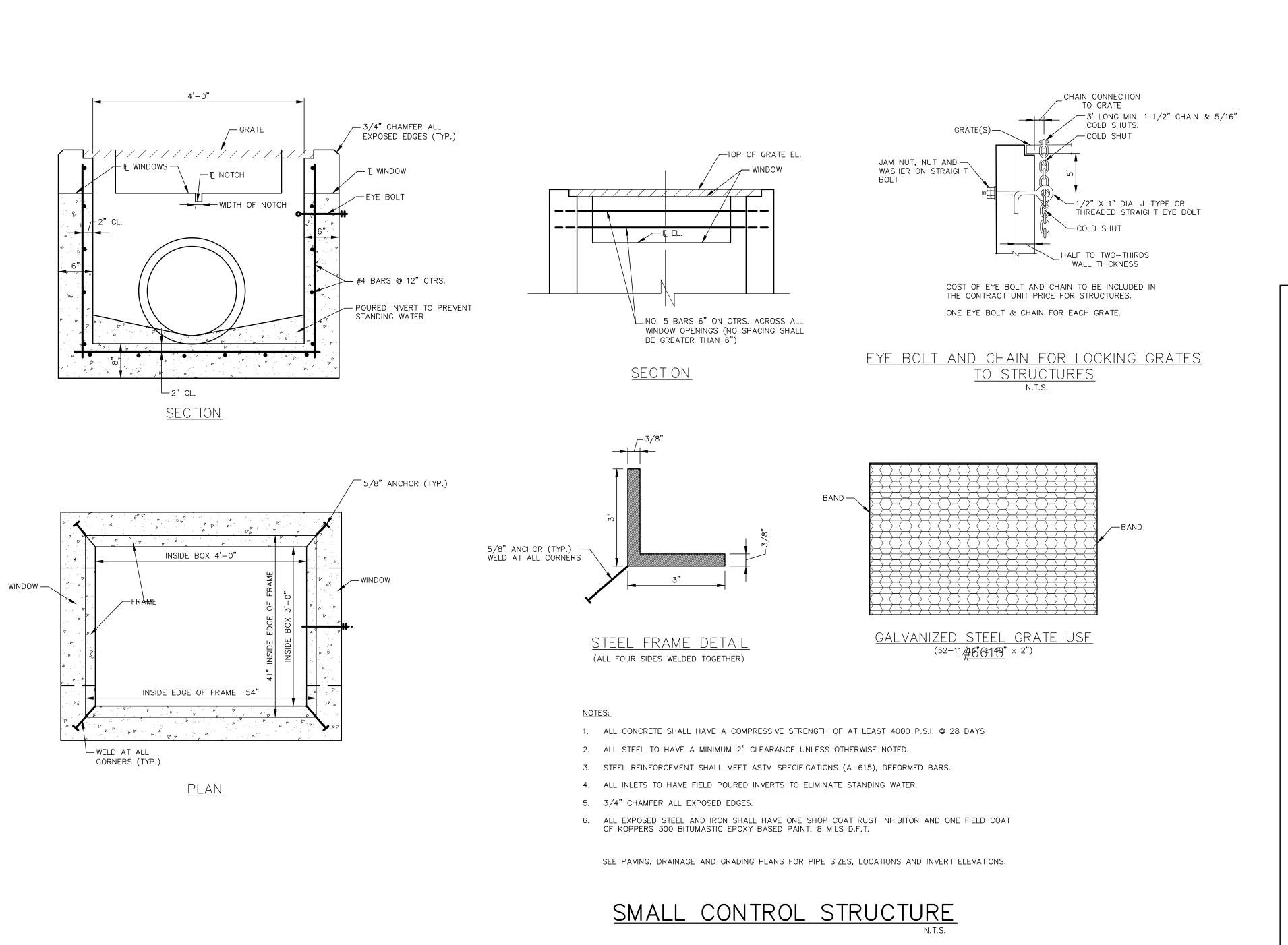
ENERATION AT VENICI
PREPARED FOR
KAPLAN RESIDENTIAL, LLC

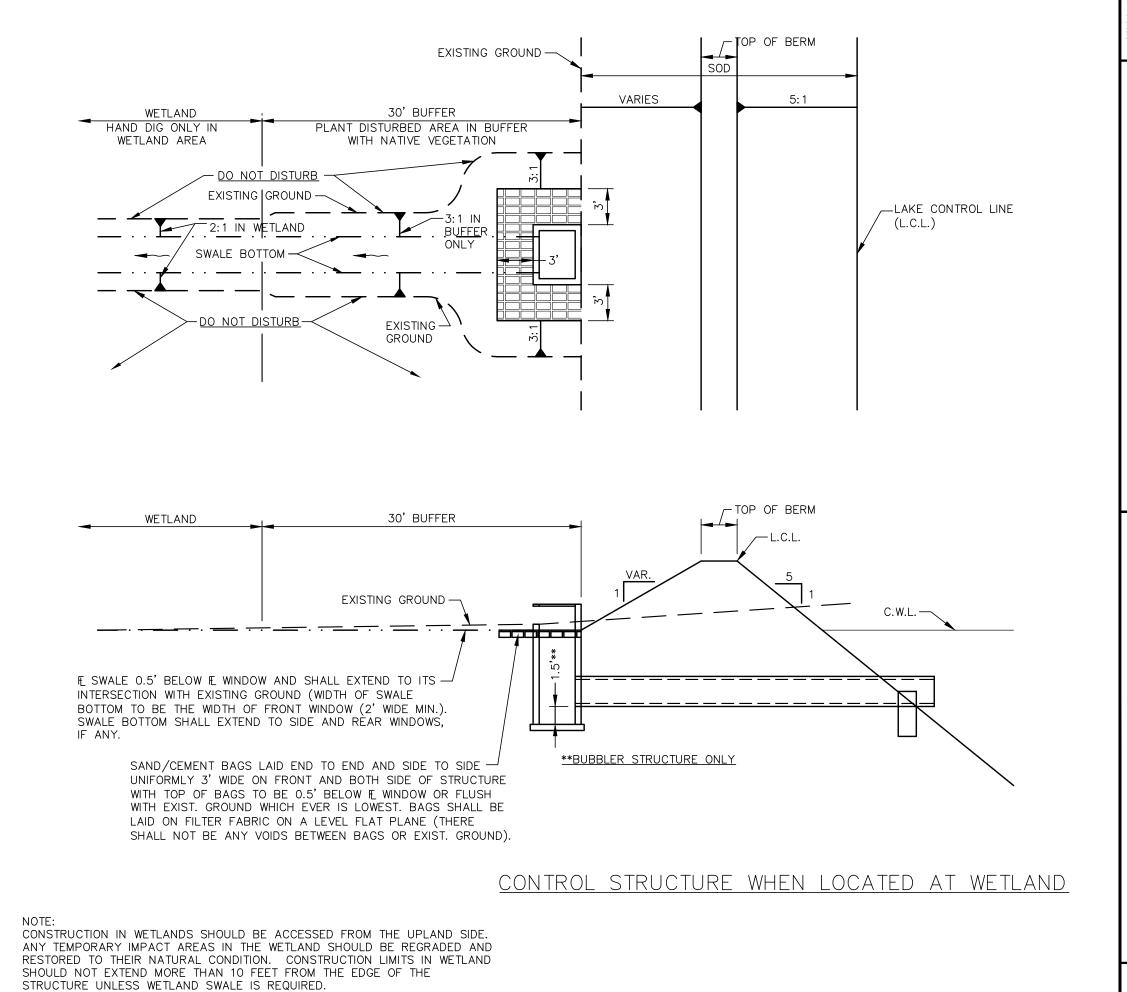


							STRUC	TURE TABLE								
CONTROL STRUCTURE NUMBER	TOP OF STRUCT/ GRATE ELEV.	FLOWLINE WINDOW ELEV.	RECTANGULAR WEIR SIZE (SLOT) (WINDOWS)				NOTCH			PIPE SIZE	OUTFALL PIPE INVERT	2KIININEK!	PBUBBLER? (YES/NO)		MODEL NAME	
	GIVATE LLEV.		FRONT	REAR	SIDE	SIDE	TOTAL	ELEV.	WIDTH	HEIGHT		INVERT				!
CS-01	9.80	9.00	3.00	-	-	-	3.00	SEE	DETAIL THIS S	HEET	24" RCP	0.65	NO	YES	B-4	DS_POND 1
(RECORD DATA)																
CS-02A	12.40	-	-	-	-	-	-	8.00	0.33	0.33	30" RCP	1.25	NO	NO	B-6	DS_POND 2A
(RECORD DATA)																
CS-02B	12.40	11.30	2.75	-	-	-	2.75	10.40	1.00	0.90	30" RCP	2.00	NO	YES	B-4	DS_POND 2B
(RECORD DATA)																
CS-03	12.40	11.20	0.50	-	-	-	0.50	10.00	0.25	0.25	18" RCP	5.13	NO	YES	B-5	DS_POND 3
(RECORD DATA)																
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(RECORD DATA)																
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(RECORD DATA)																
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
(RECORD DATA)																
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
(RECORD DATA)															_	

** ALL BUBBLER BOXES SHALL HAVE AN INSIDE BOTTOM ELEVATION 18" BELOW PIPE INVERT. THE CONTRACTOR IS REQUIRED TO PROTECT THESE SUMPS AND PIPES FROM DEBRIS AND SILTATION. ALL PIPES AND SUMPS SHALL BE FREE OF DEBRIS AND SILTATION AT FINAL PROJECT ACCEPTANCE. <u>DO NOT</u> POUR INVERTS IN BUBBLER BOXES.





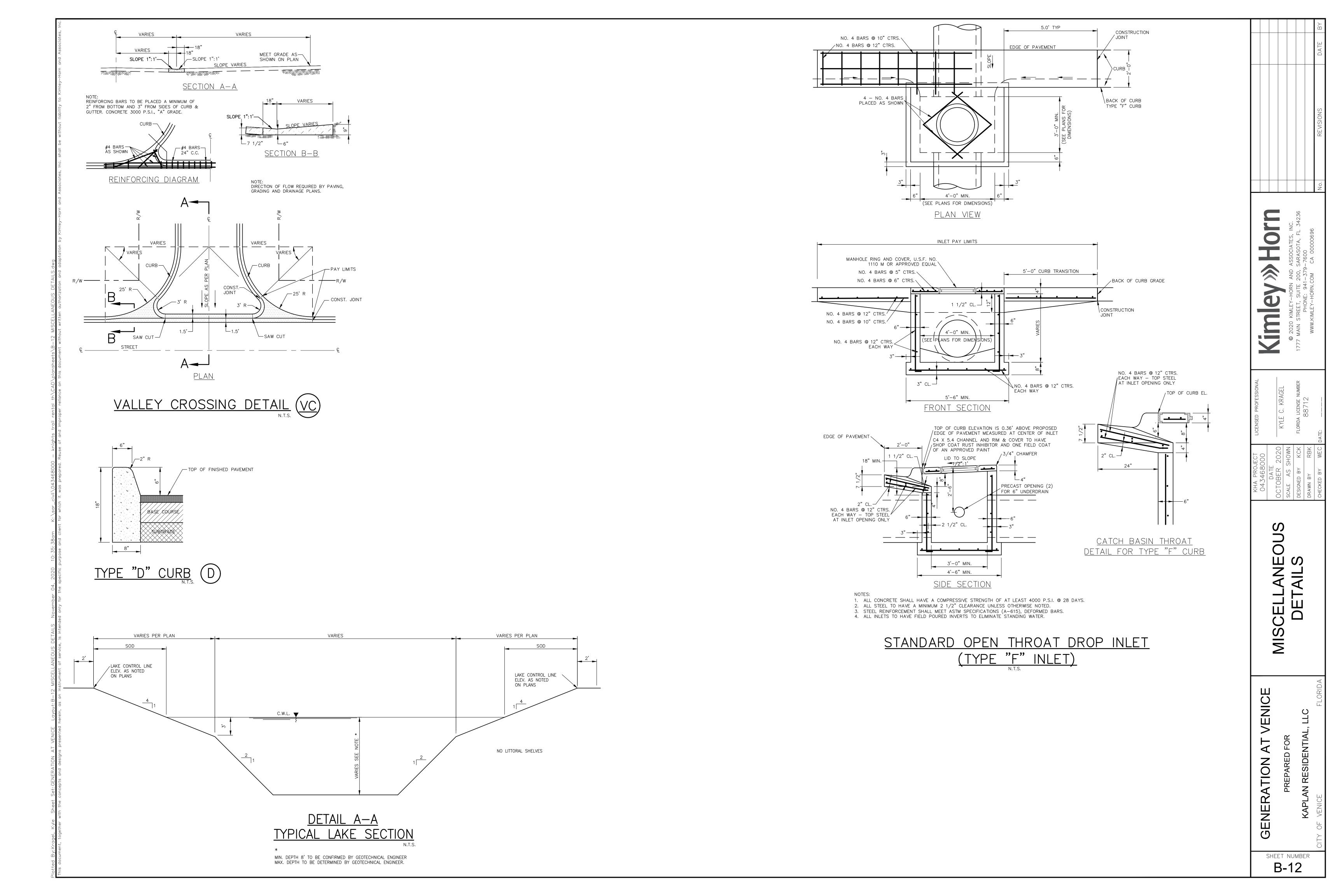


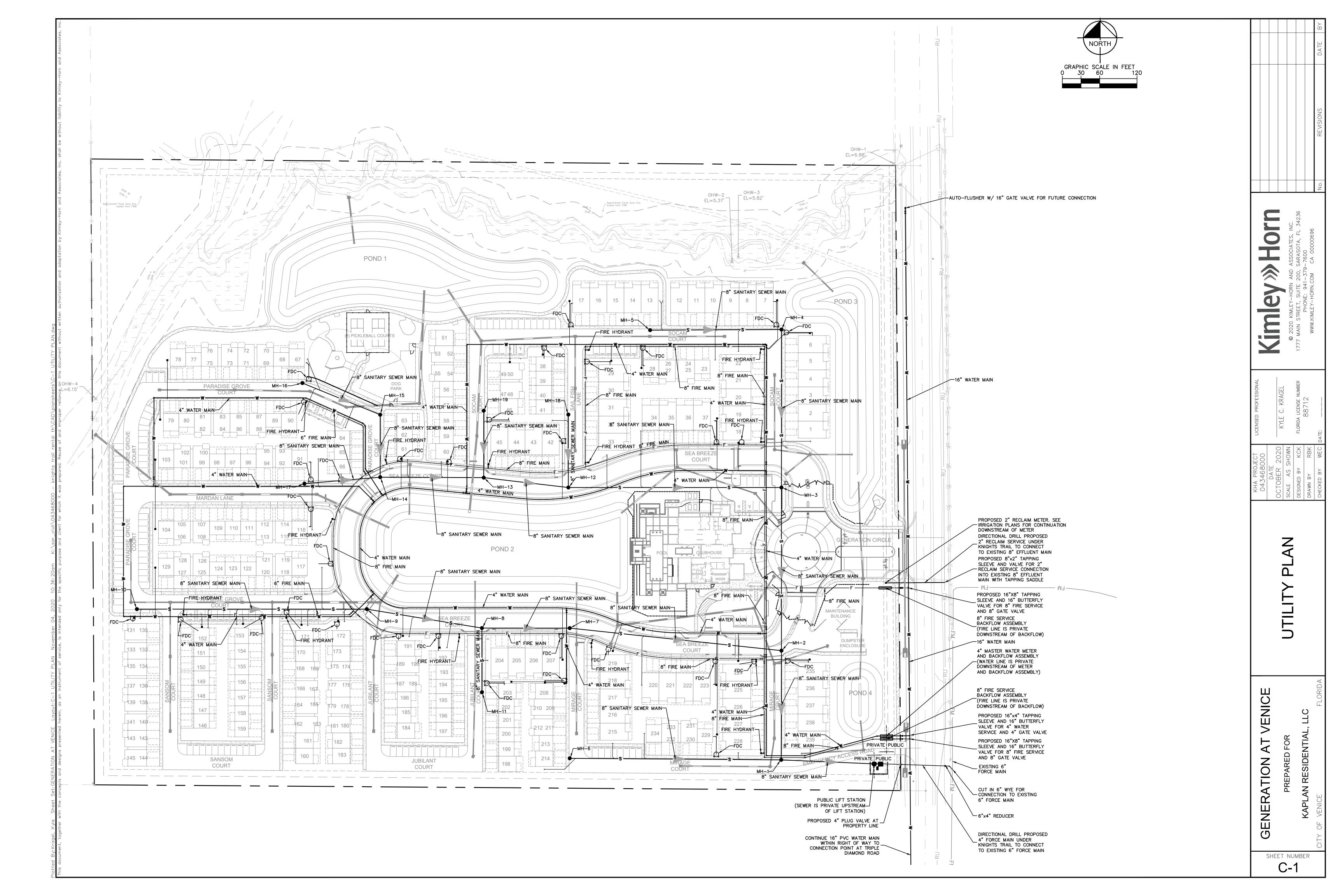
RESIDENT

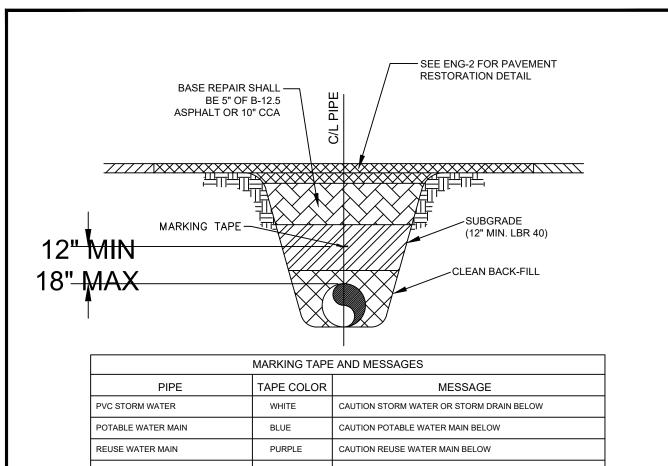
SHEET NUMBER

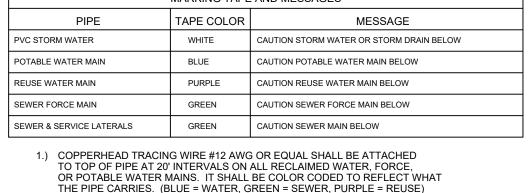
VENICI

ATION









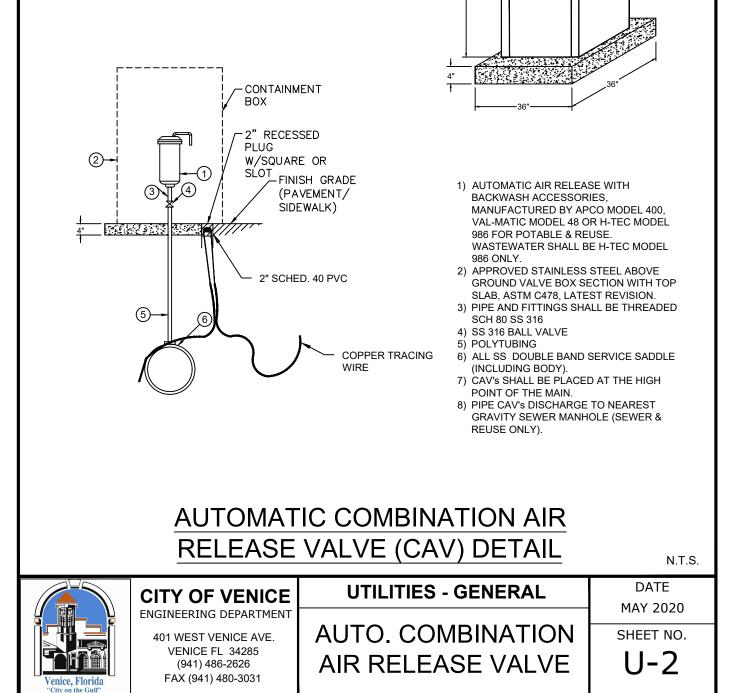
- 2.) MINIMUM COVER SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE MAXIMUM COVER SHALL BE 42" FROM FINISHED GRADE UNLESS OTHERWISE APPROVED
- 3.) INSTALLATION OF PIPE SHALL BE IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 4.) PAVEMENT RESTORATION SHALL CONFORM WITH DETAIL ENG-2 OF THESE CITY STANDARDS.
- 5.) CONFLICTS UTILIZE 45° BENDS WITH SEPARATION AS PER CITY DETAILS. 6.) ALL UTILITIES (PUBLIC & PRIVATE) THAT CROSS A DITCH/SWALE SHALL BE 36" MIN.
- BELOW THE ACTUAL/DESIGN BOTTOM OF CONVEYANCE.
- 7.) MARKING TAPE SHALL BE 3" WIDE (MIN.) DETECTIBLE UNDERGROUND WARNING TAPE. INSTALL CENTERED DIRECTLY OVER THE PIPE.
- 8.) SEE S-6 FOR GRAVITY SEWER PIPE TRENCH DETAIL.

PRESSURE PIPE TRENCH DETAIL N.T.S.

Venice, Florida	CITY C ENGINEER: 401 WES VENIC (941 FAX (9
"City on the Culf"	

OF VENICE RING DEPARTMENT UTILITY PIPE ST VENICE AVE. ICE FL 34285 **TRENCH** 1) 486-2626 (941) 480-3031

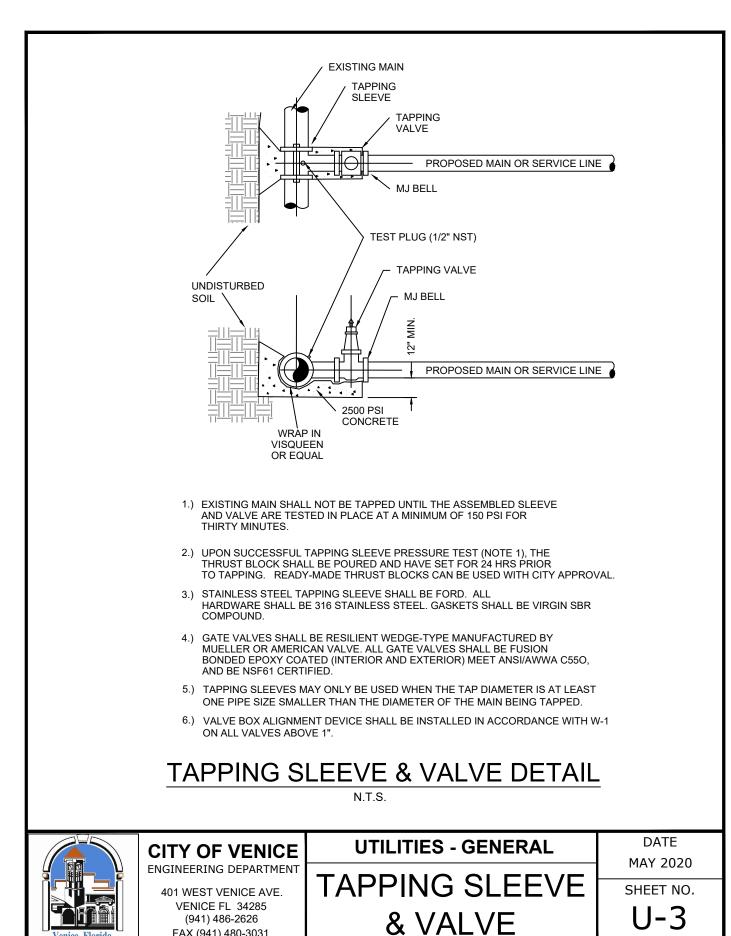
UTILITIES - GENERAL MAY 2020 SHEET NO.



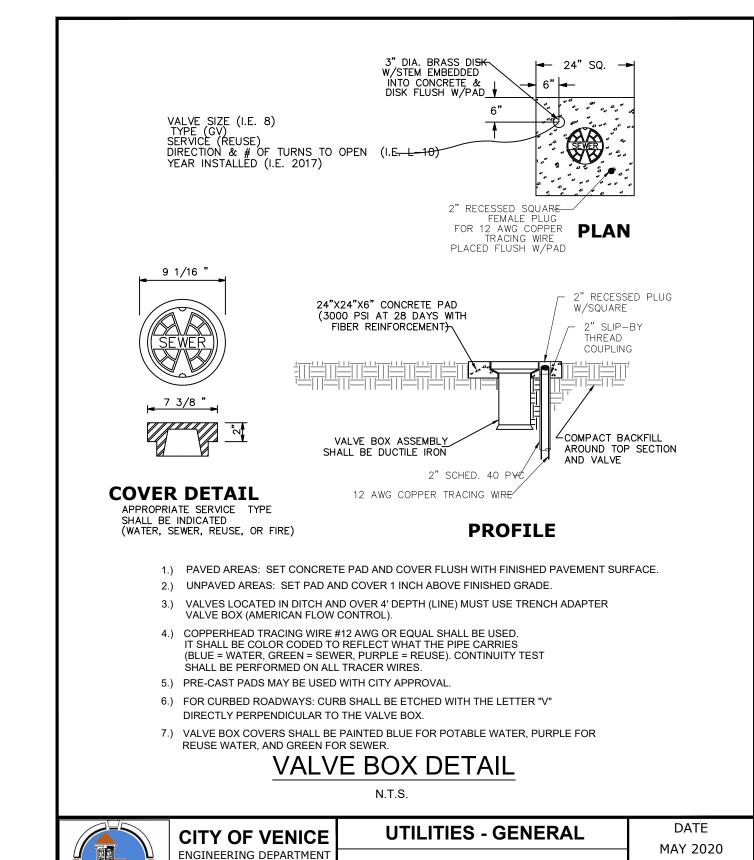
ABOVE GROUND ARV CONTAINMENT NOTES: 1) 12" HOLE MUST BE IN CENTER OF PAD.

2) CONTAINMENT BOX MUST BE COMPLETELY CONSTRUCTED OF

3) CONTAINMENT BOX MUST BE EQUIPPED WITH A LOCKABLE DOOR. 4) THIS IS THE PREFERRED INSTALLATION IN LOW TRAFFIC AREAS.



FAX (941) 480-3031



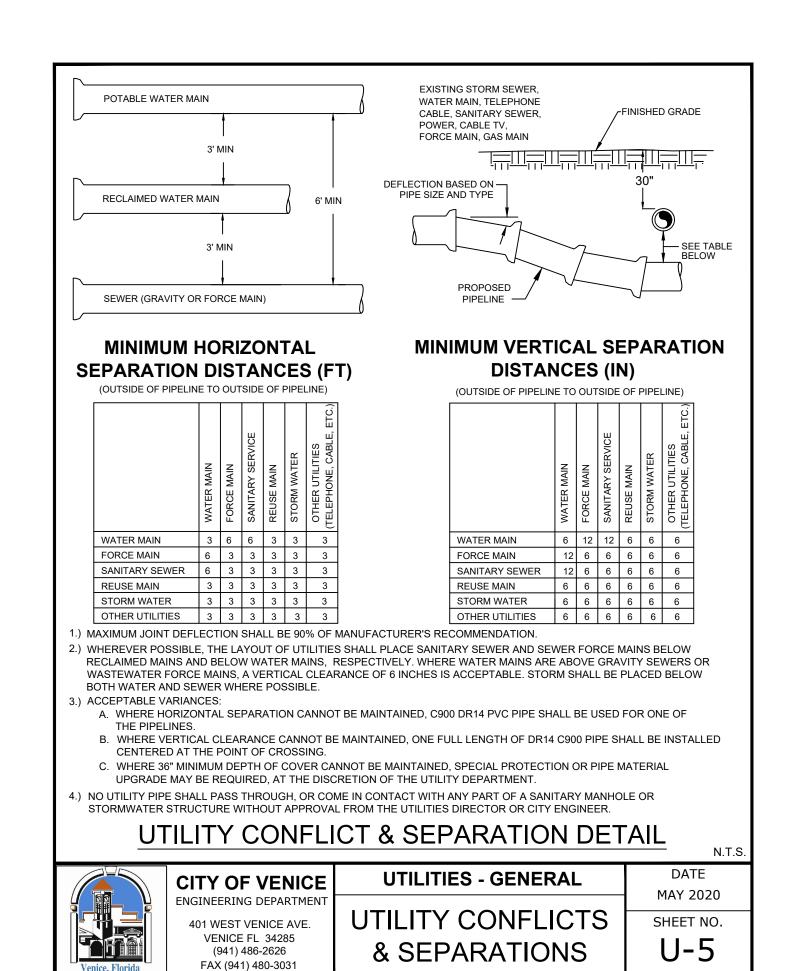
VALVE BOX

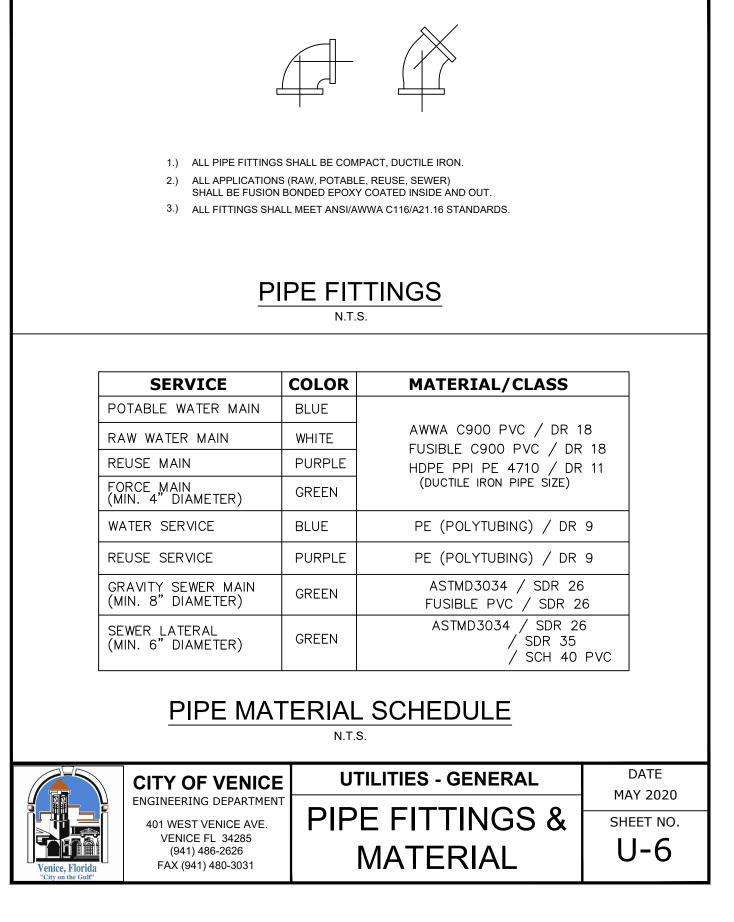
401 WEST VENICE AVE.

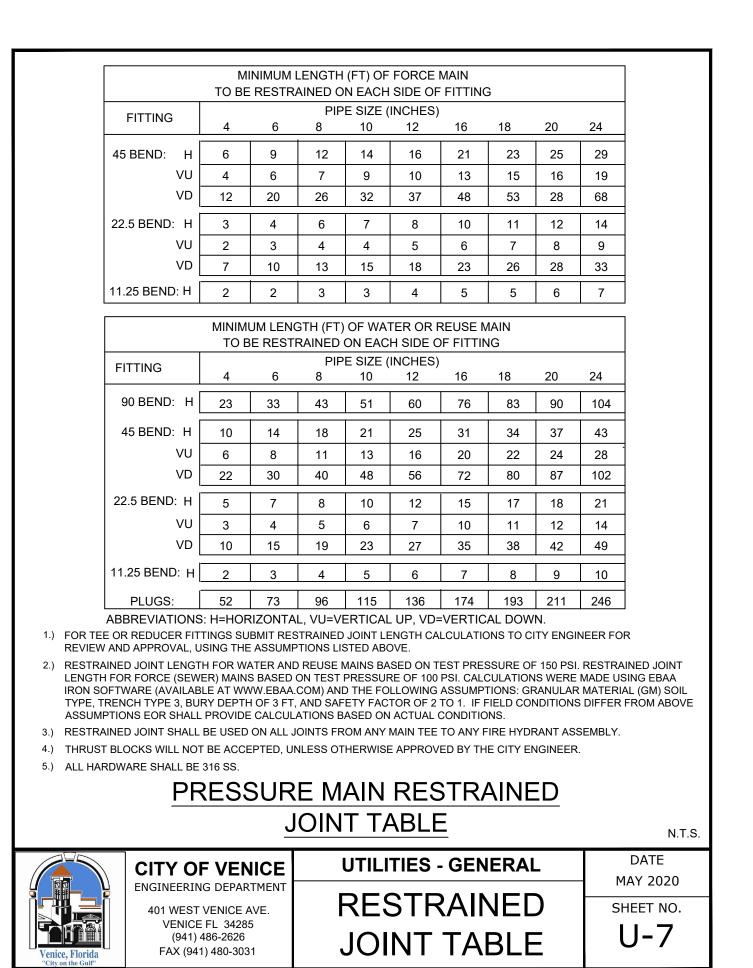
VENICE FL 34285

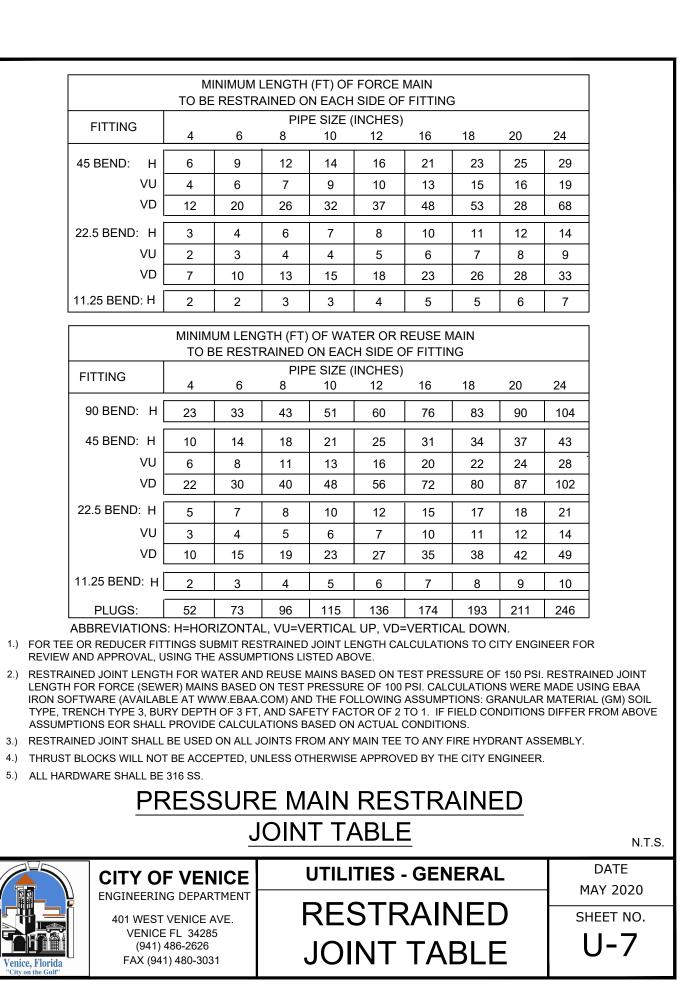
(941) 486-2626

FAX (941) 480-3031







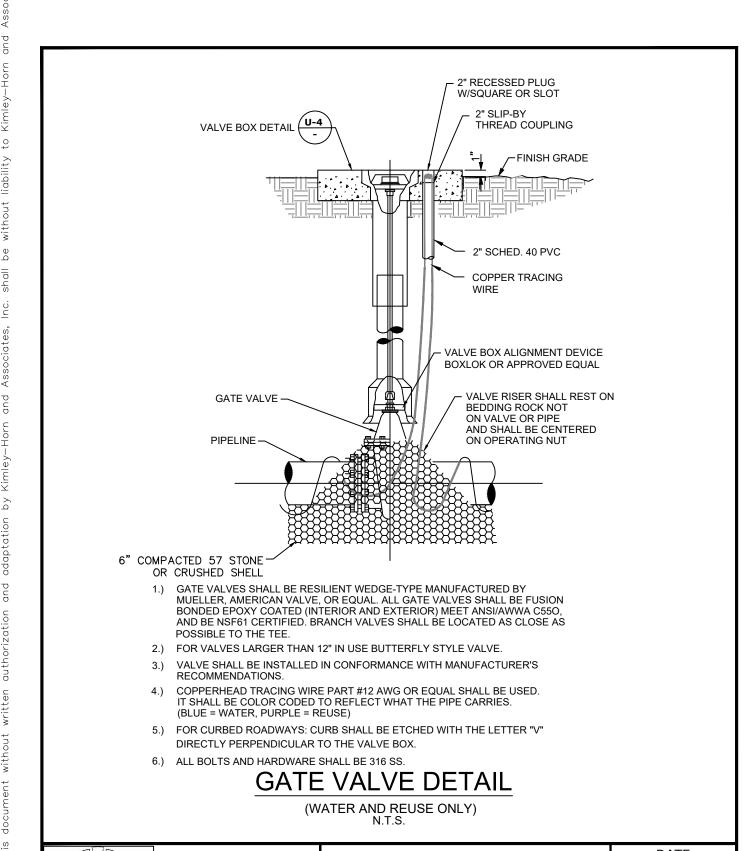


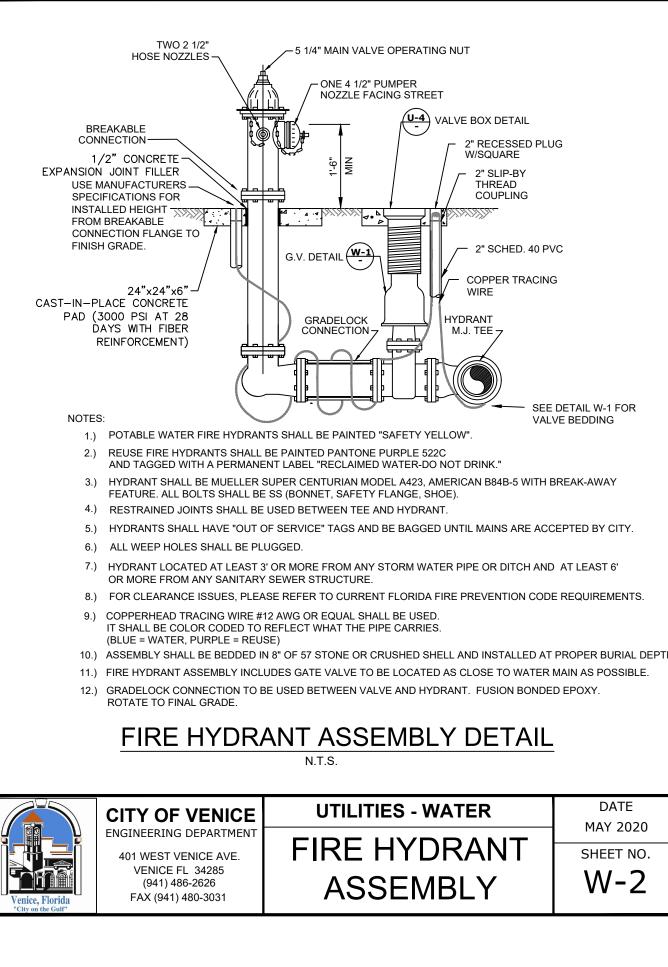
() RESIDE

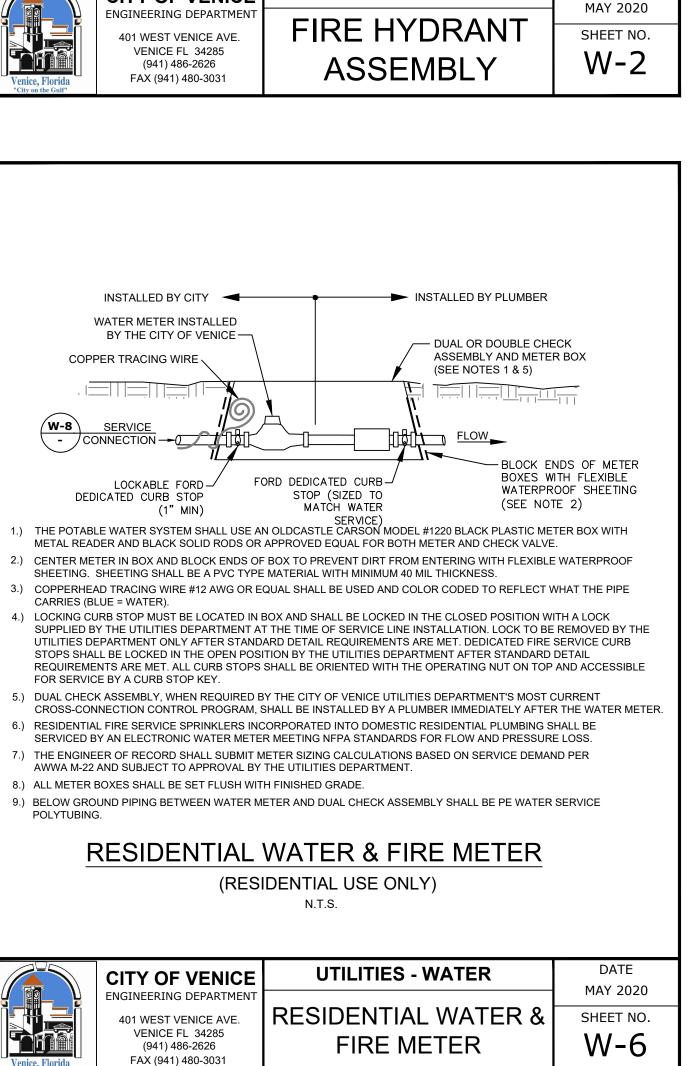
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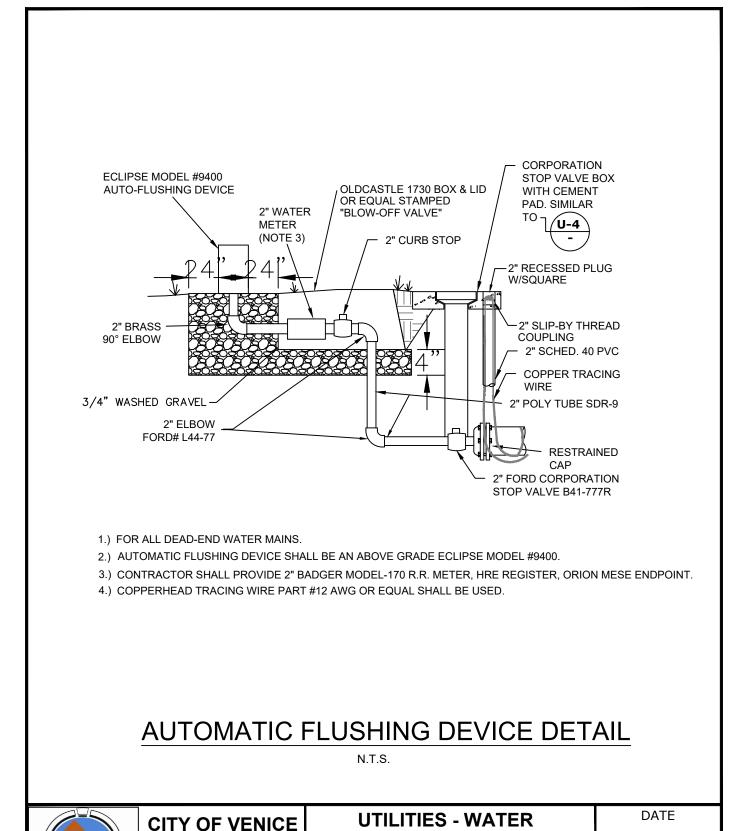
SHEET NUMBER

MOIL









AUTOMATIC

FLUSHING DEVICE

REUSE METER INSTALLED

BY THE CITY OF VENICE

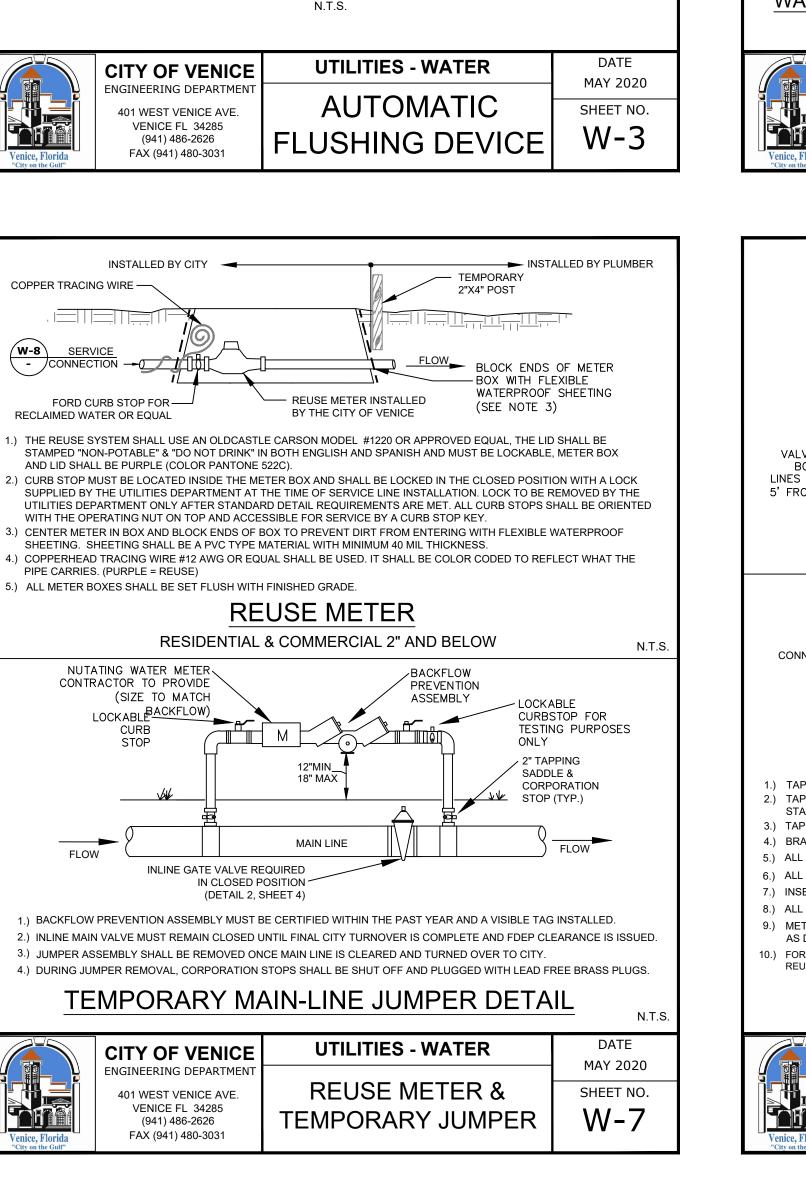
TEMPORARY

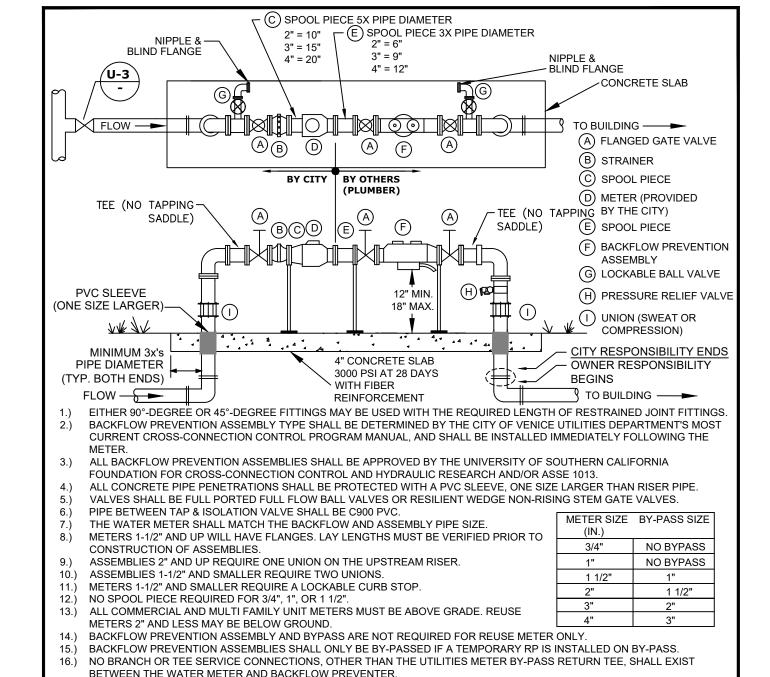
(SEE NOTE 3)

2"X4" POST

PREVENTION

ASSEMBLY





SAME DEGREE OF PROTECTION OR GREATER. (9.) NO PVC SHALL BE PERMITTED ON THE CITY SIDE. WATER & REUSE METER & BACKFLOW PREVENTION ASSEMBLY ABOVE GROUND COMMERCIAL/MULTI-UNIT/SINGLE SERVICE/MASTER METER

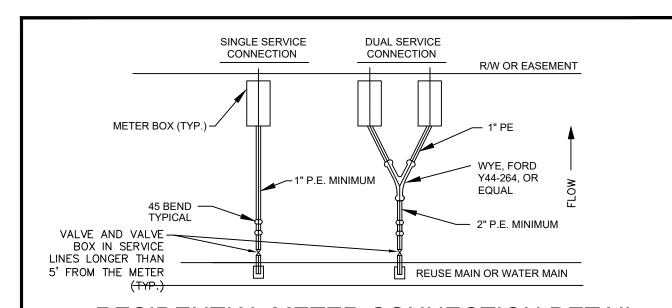
AND SUBJECT TO APPROVAL BY THE UTILITY DEPARTMENT.

17.) THE ENGINEER OF RECORD SHALL SUBMIT METER SIZING CALCULATIONS BASED ON SERVICE DEMAND PER AWWA M-22

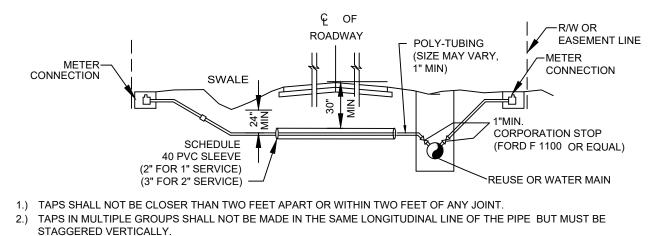
|8.) PARALLEL BACKFLOW ASSEMBLY MAY BE PERMITTED TO ALLOW FOR UNINTERRUPTED SERVICE AND SHALL PROVIDE THE

(WITH BY-PASS AROUND METER ONLY) N.T.S. **UTILITIES - WATER** CITY OF VENICE ENGINEERING DEPARTMEN WATER & REUSE SHEET NO. 401 WEST VENICE AVE. VENICE FL 34285 METER & BACKFLOW (941) 486-2626 FAX (941) 480-3031

MAY 2020

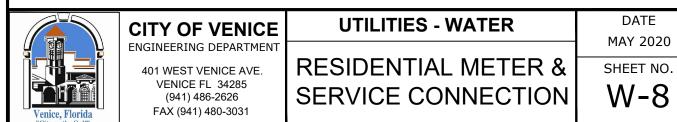


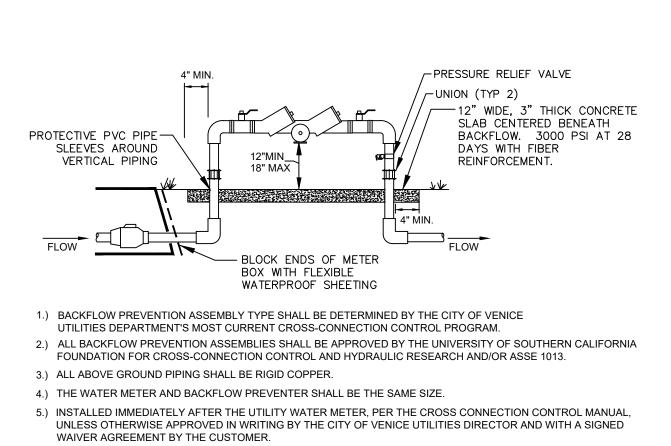




- 3.) TAPPING SADDLE SHALL BE EPOXY COATED, DUCTILE IRON BODY WITH SS 316 BAND(S) AND HARDWARE.
- 4.) BRASS FITTINGS AND BALL VALVES SHALL BE FORD F1100 OR EQUAL.
- 5.) ALL SERVICES SHALL HAVE COPPER TRACING WIRE
- 6.) ALL SLEEVE ENDS SHALL BE SEALED WITH FOAM SEAL
- 7.) INSERT STIFFENERS WILL NOT BE ACCEPTABLE. 8.) ALL WATERWORKS BRASS MUST BE LEAD FREE.
- 9.) METER SIZE AND SERVICE LINE PIPING DOWNSTREAM OF METER SHALL BE MINIMALLY SIZED BASED ON FIXTURE CALCS AS DETERMINED BY THE EOR.
- 10.) FOR CURBED ROADWAYS: CURB SHALL BE ETCHED WITH THE LETTER "W" FOR WATER SERVICE AND "R" FOR REUSE SERVICE DIRECTLY PERPENDICULAR TO THE METER.

WATER & REUSE SERVICE CONNECTION





UTILITIES - WATER

GATE VALVE

MAY 2020

SHEET NO.

- 6.) NO BRANCH OR TEE CONNECTIONS SHALL EXIST BETWEEN THE WATER METER AND BACKFLOW PREVENTER.
- 7.) ALL METER BOXES SHALL BE SET FLUSH WITH FINISHED GRADE.
- 8.) SHEETING SHALL BE A PVC TYPE MATERIAL WITH A MINIMUM OF 40 MIL. THICKNESS. 9.) PROTECTIVE PIPE SLEEVES MAY BE PVC PIPE ONE SIZE LARGER THAN RISER OR OTHER CITY APPROVED MATERIAL.
- 10.) UNIONS ARE REQUIRED ON THE RISERS. 11.) PRESSURE RELIEF VALVE SHALL BE INSTALLED PER PLUMBING CODE.

CITY OF VENICE

NGINEERING DEPARTMEN

401 WEST VENICE AVE.

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FAX (941) 480-3031

12.) LINE DOWNSTREAM OF METER AND PRIOR TO BACKFLOW SHALL BY POLYETHYLENE.

BACKFLOW PREVENTION ASSEMBLY

(RESIDENTIAL, NOT MASTER METERED)

Venice, Florida	CITY OF ENGINEERING 401 WEST V VENICE F (941) 48 FAX (941)
"City on the Gulf"	

UTILITIES - WATER VENICE MAY 2020 **DEPARTMEN** BACKFLOW ASSEMBLY SHEET NO. VENICE AVE. FL 34285 W-5 (NO MASTER METER) 86-2626) 480-3031

CITY OF VENICE

ENGINEERING DEPARTMEN 401 WEST VENICE AVE VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031

INLINE GATE VALVE REQUIRED

IN CLOSED POSITION ~

(DETAIL 2, SHEET 4)

3.) JUMPER ASSEMBLY SHALL BE REMOVED ONCE MAIN LINE IS CLEARED AND TURNED OVER TO CITY.

NGINEERING DEPARTMEN

401 WEST VENICE AVE

VENICE FL 34285

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FAX (941) 480-3031

INSTALLED BY CITY

COPPER TRACING WIRE -

FORD CURB STOP FOR —

PIPE CARRIES. (PURPLE = REUSE)

NUTATING WATER METERS

CONTRACTOR TO PROVIDE

CURB STOP

(SIZE TO MATCH

LOCKABLE ACKFLOW)

AND LID SHALL BE PURPLE (COLOR PANTONE 522C).

5.) ALL METER BOXES SHALL BE SET FLUSH WITH FINISHED GRADE.

WITH THE OPERATING NUT ON TOP AND ACCESSIBLE FOR SERVICE BY A CURB STOP KEY

SHEETING. SHEETING SHALL BE A PVC TYPE MATERIAL WITH MINIMUM 40 MIL THICKNESS.

REUSE METER

18" MAX

MAIN LINE

TEMPORARY MAIN-LINE JUMPER DETAIL

RESIDENTIAL & COMMERCIAL 2" AND BELOW

RECLAIMED WATER OR EQUAL

REUSE METER & **TEMPORARY JUMPER**

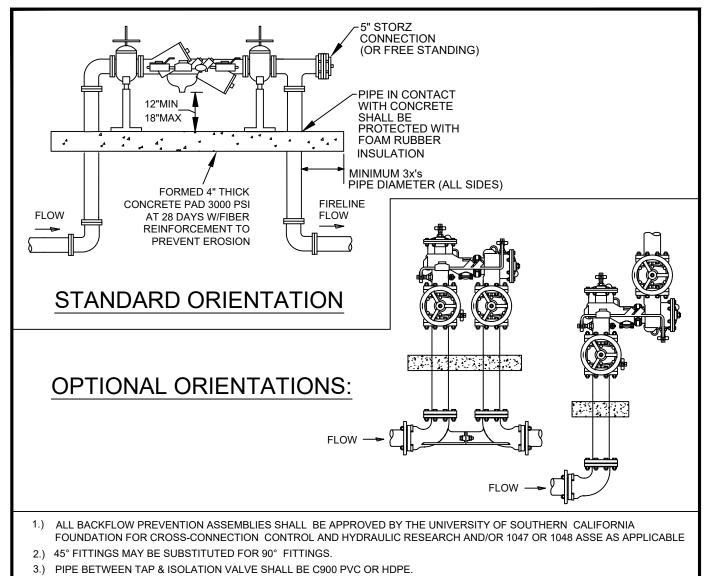
UTILITIES - WATER

MAY 2020 SHEET NO. W-7

VENIC ATION

SHEET NUMBER

SID



6.) VALVE ASSEMBLIES SHALL MEET NFPA 24 REQUIREMENTS AND INDICATOR VALVES SHALL BE PROVIDED

OUTSIDE CONNECTION SHALL BE EQUIPPED WITH AN APPROVED BALL DRIP.

10.) 5" STORZ INLET CONNECTION MAY BE REDUCED FOR PIPE SIZES LESS THAN 5".

MOST CURRENT CROSS-CONNECTION CONTROL PROGRAM.

CITY OF VENICE

ENGINEERING DEPARTMENT

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7.) FOR CLEARANCE ISSUES, PLEASE REFER TO THE CURRENT FLORIDA FIRE PREVENTION CODE REQUIREMENTS.

8.) FOR FIRE PROTECTION SYSTEMS EQUIPPED WITH A FIRE PUMP, THE PIPE BETWEEN THE CHECK VALVE AND THE

9.) BACKFLOW PREVENTION ASSEMBLY TYPE SHALL BE DETERMINED BY THE CITY OF VENICE UTILITIES DEPARTMENT'S

FIRE SERVICE BACKFLOW ASSEMBY

SIZE 2" - 10"

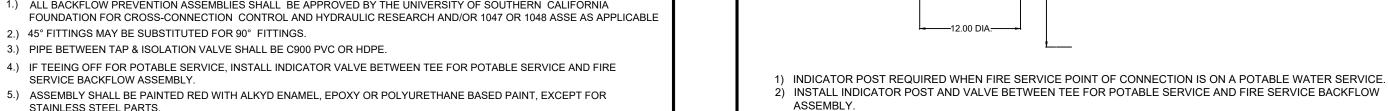
UTILITIES - WATER

FIRE SERVICE

BACKFLOW ASSEMBL

SERVICE BACKFLOW ASSEMBLY

STAINLESS STEEL PARTS.



CAST 2 PLACES

5.) FOR USE WITH VALVES WITH O-RING STEM SEALS. 6.) ALL EXPOSED EXTERIOR SURFACES COATED WITH TNEMEC 140 EPOXY AND TOP COATED WITH "RED" ENAMEL PER MANUFACTURER'S STANDARD PAINT.

3.) AMERICAN FLOW CONTROL IP-71 INDICATOR POST OR EQUIVALENT SHALL BE INSTALLED.

4.) UNDERWRITERS LABORATORIES LISTED AND FACTORY MUTUAL RESEARCH APPROVED.

FIRE SERVICE VALVE INDICATOR POST

N.T.S

DATE

MAY 2020

SHEET NO.

W-9

CITY OF VENICE 401 WEST VENICE AVE VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031

UTILITIES - WATER FIRE SERVICE **INDICATOR POST**

4 PLACES ON

10 1/2 DIA. B.C

MAY 2020 SHEET NO.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031

VALVE BOX DETAIL (U-6)

23 3/4 —

COVER

30 1/4

30B GRAY IRON

2.) RING WT: 155 LBS. APP.

3.) COVER WT: 150 LBS. APP.

TYPICAL COVER

4.) INFLOW DISH REQUIRED

(USF 170-CE-ORS)

1.) MATERIAL: ASTM-A48 CLASS

- 2" SCHED. 40 PVC

DOVETAIL GROOVE & 1.) PLUG VALVES SHALL BE MANUFACTURED

2.) SEAT OF PLUG VALVE SHALL BE ON

3.) VALVE SHALL BE INSTALLED IN

4.) ALL SEWER FORCE MAIN PLUG

THE UPSTREAM SIDE OF THE BODY.

VALVES SHALL BE GEAR OPERATED.

PLUG VALVE DETAIL

(SEWER FORCE MAINS ONLY)

N.T.S.

CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.

BY DEZURIK.

2 NON PENETRATING

PICKHOLES (TYP)

MANHOLE COVERS DETAIL

(ALL UNITS IN INCHES)

DATE **UTILITIES - SEWER** PLUG VALVE & S-1 MANHOLE COVERS

1.) HEAVY DUTY 130 LB. COVER

2.) MANHOLE COVER SHALL BE

U.S FOUNDARY TYPE CE-ORS

<u>RING</u>

(USF 580-CE-ORS)

LOW PROFILE COVER

1.) MATERIAL: ASTM-A48 CLASS

30B GRAY IRON

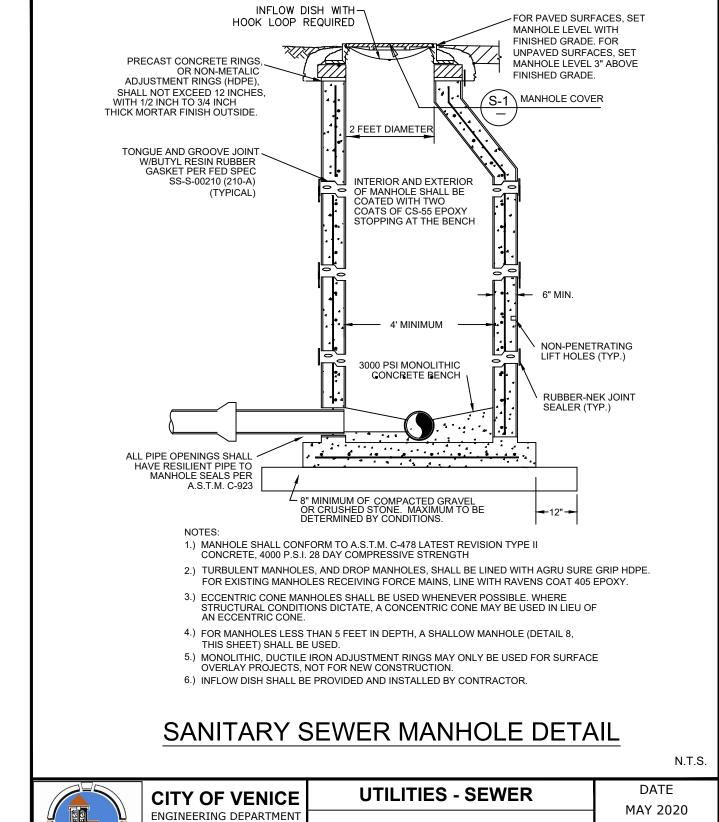
2.) RING WT: 90 LBS. APP.

3.) COVER WT: 130 LBS. APP.

3.) SHALL BE LABELLED AS ILLUSTRATED

MAY 2020 SHEET NO.

N.T.S.



FOR PAVED SURFACES, SET

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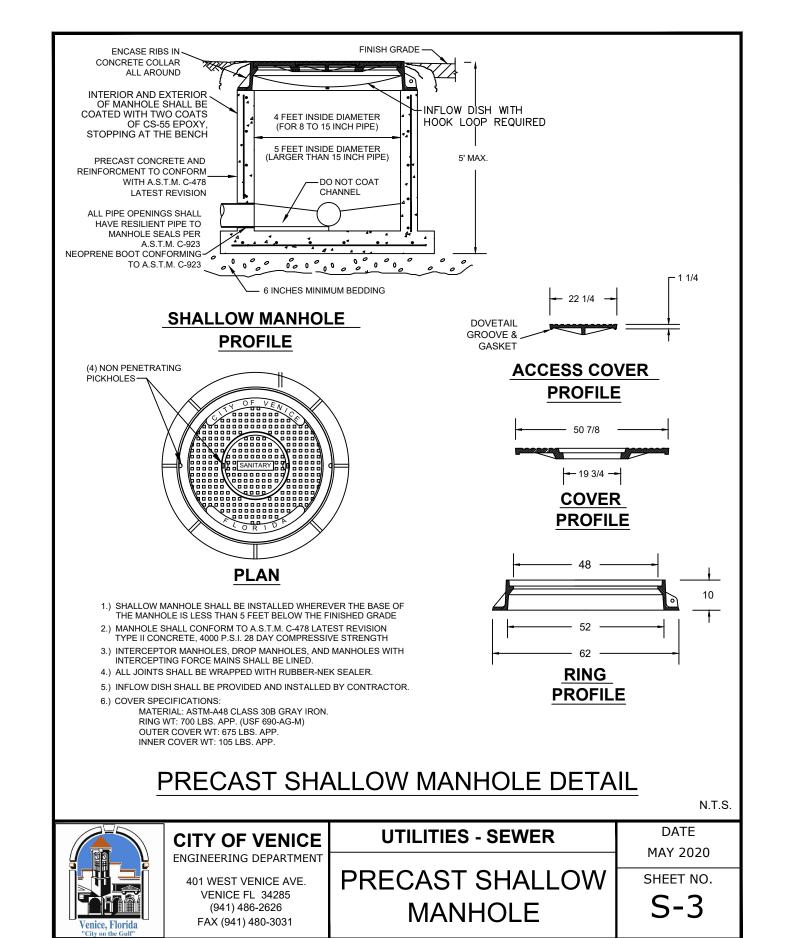
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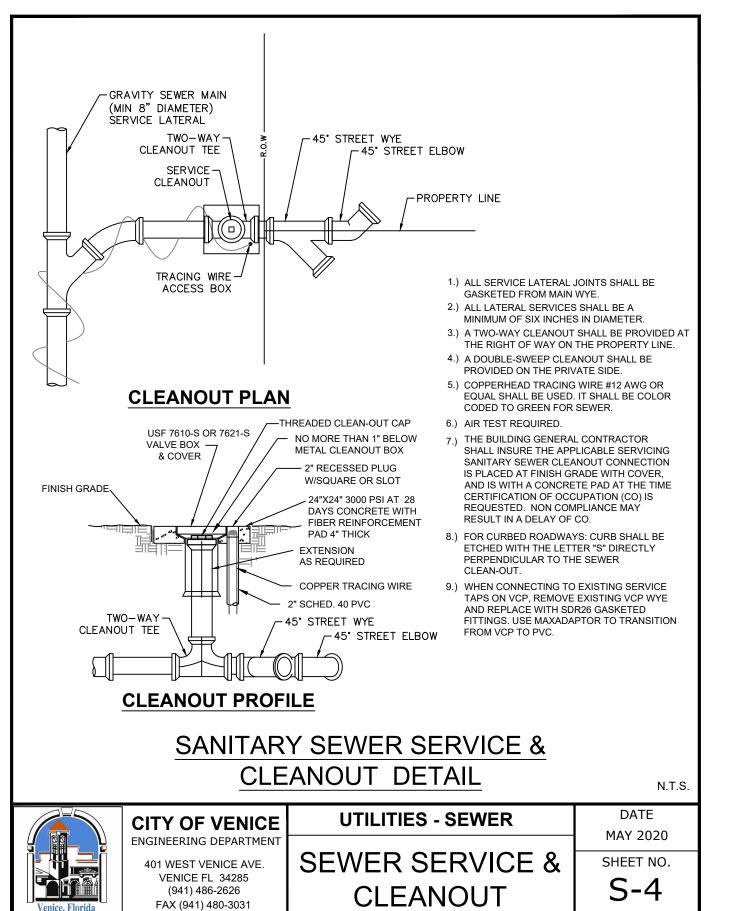
SHEET NUMBER

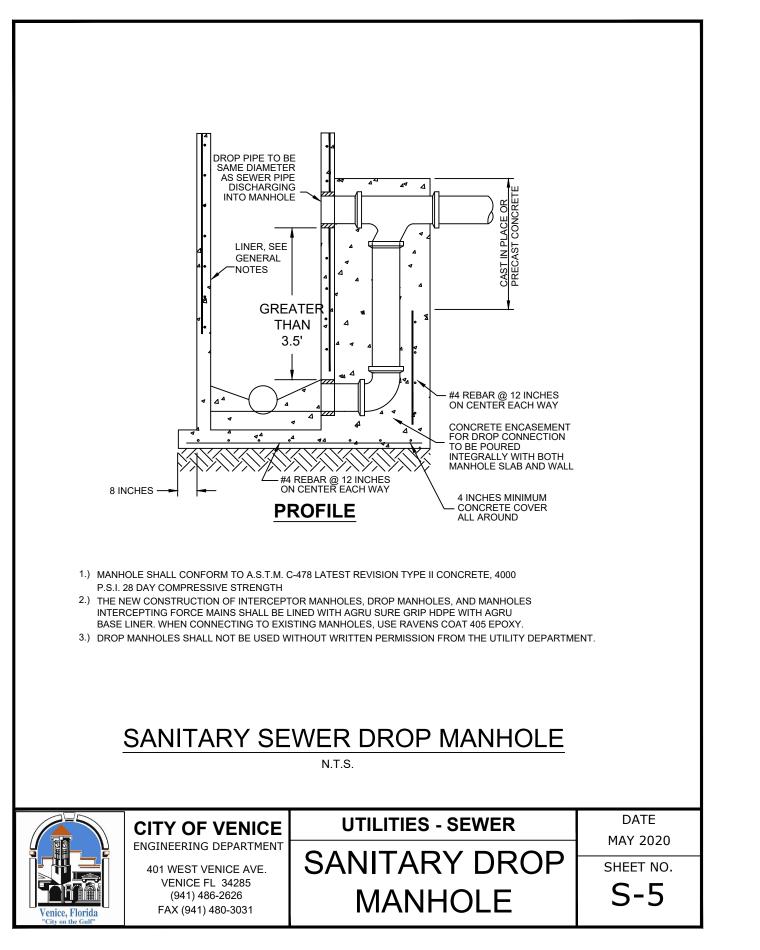
C-4

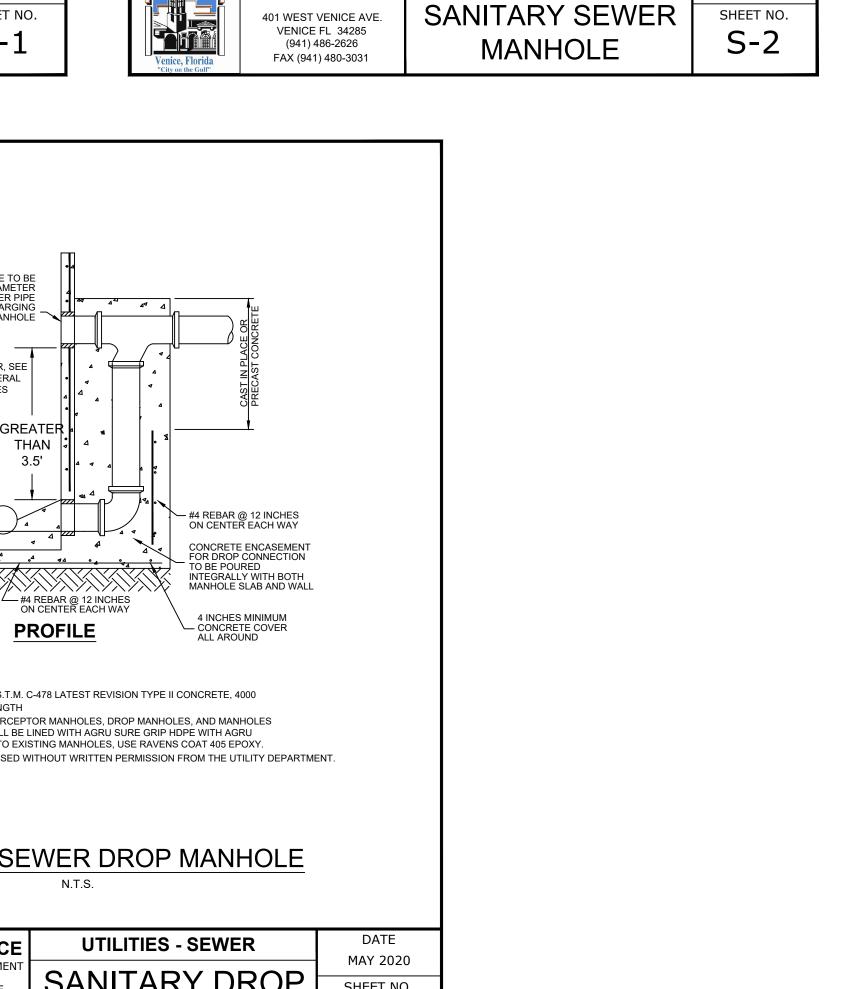
RESIDE

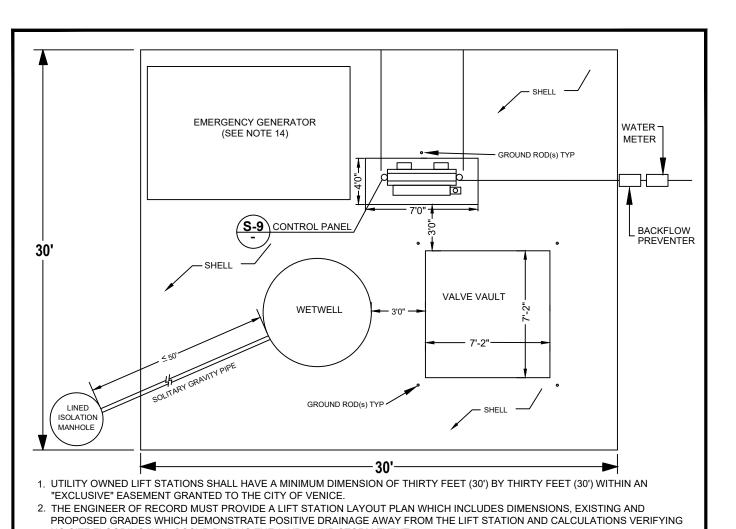
S











- NO SITE FLOODING WILL OCCUR DURING THE 25YR, 24 HR STORM EVENT. 3. CONTRACTOR TO PLANT TREES AND SHRUBS SURROUNDING THE LIFT STATION WITH EXCEPTION OF A 12 FOOT ENTRANCE. THI LOCATION OF THE 12 FOOT ENTRANCE SHALL BE APPROVED BY THE UTILITIES DEPARTMENT. TREES & SHRUBS SHALL NOT INTERFERE WITH STRUCTURE, PANELS, ACCESS TO WETWELL OR VALVE VAULT. ALL TREES & SHRUBS SHOULD MATCH
- SURROUNDINGS SO AS TO MAKE THE LIFT STATION INCONSPICUOUS. 4. THE HOME OWNER ASSOCIATION OR ENTITY RESPONSIBLE FOR COMMON AREA MAINTENANCE IS RESPONSIBLE TO MAINTAIN THE TREES & SHRUBS PLANTED AT LIFT STATION.
- 5. FENCING MAY BE REQUIRED AT THE DISCRETION OF THE UTILITY DEPARTMENT WHEN IT IS DETERMINED THAT GENERAL
- PUBLIC SAFETY MAY BE AT RISK OR INCREASED VISUAL BUFFERING IS NECESSARY CONDUIT CORES IN WETWELL SHALL BE DIRECTED TOWARDS THE CONTROL PANEL TO MINIMIZE DEFLECTIONS. 7. ENTIRE LIFT STATION SITE SHALL BE LINED WITH 2 LAYERS OF VISQUEEN AND WASHED SHELL AT A MINIMUM OF 6" THICKNESS.
- 8. MINIMUM 12' WIDE ACCESS ROADWAY TO LIFT STATION MUST BE PROVIDED. 9. AN ADDITIONAL FOUR FOOT WALK-THRU GATE MAY BE REQUIRED
- 10. F.P.L. POINT OF CONNECTION (P.O.C.) TO BE ADDED ON AS LOCATED TO L.S. METER CAN.

GALVANIZED

COAX CABLE —

RTC400

ENGINEERING DEPARTMEN

401 WEST VENICE AVE.

VENICE FL 34285

(941) 486-2626

FAX (941) 480-3031

PIPE CAP —

- 11. METER CAN TO L.S. P.O.C. LOCATE TO BE ADDED ON REFERENCE DRAWINGS. 12. ALL SPARE PARTS FROM THE SPARE PARTS LIST SHALL BE DELIVERED TO COV UTILITIES DEPARTMENT PRIOR TO
- ACCEPTANCE OF LIFT STATION.
- 13. ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR DESIGNING GROUNDING SYSTEM FOR LIFT STATION. 14. EMERGENCY GENERATOR SHALL BE REQUIRED AT ALL LIFT STATIONS UNLESS PRIOR WRITTEN APPROVAL IS GRANTED LIFT STATION SITE LAYOUT

CITY OF VENICE ENGINEERING DEPARTMEN 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031

LIFT STATION SITE LAYOUT

21'X1-1/4" SCH40

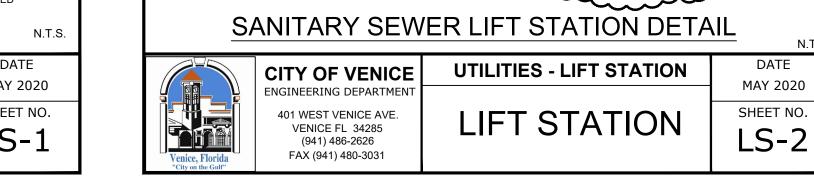
BAND-IT S.S.

TIE WRAPS

GALVANIZED POLE

UTILITIES - LIFT STATION SHEET NO.

YAGI ANTENNA



FAX (941) 480-3031

O WET WELL WALL

TEFLON COATING

/ITHIN 50' OF STATION

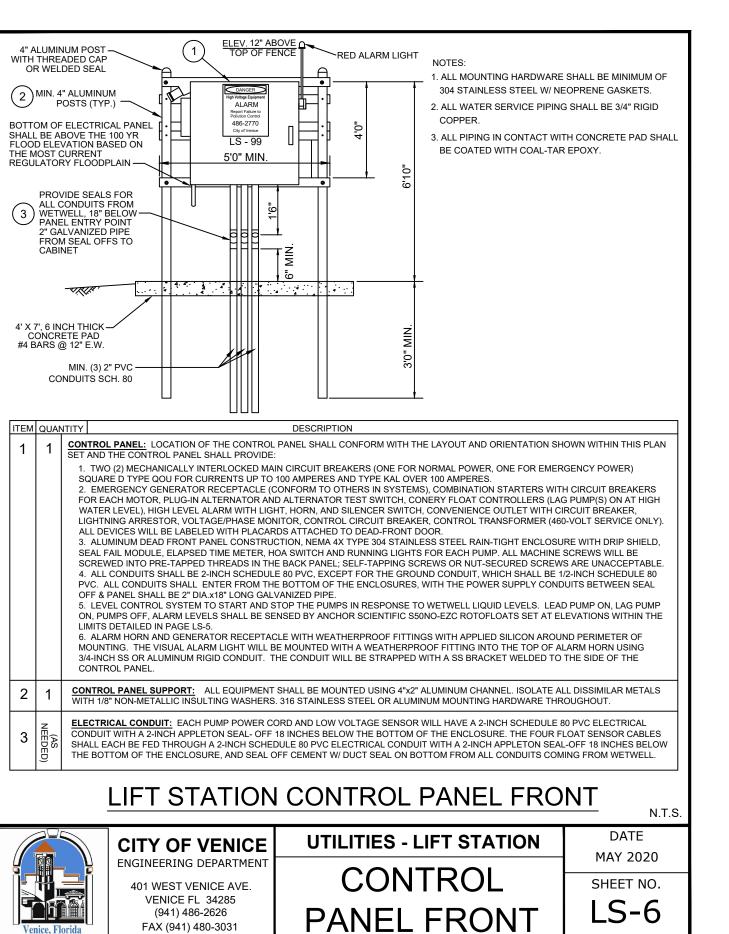
GH LEVEL ALARM ELE

LAG PUMP ON ELEV.= '

#5 BARS @ 7" C/C

STAND PIPE MUST BE —

PLUMB FROM PUMP TO



- DI CROSS

STANDARD RADIUS D.I. 90 BEND

VALVE & PLUG

ADD PIPE SUPP

AND PLUG VALV

REMOVAL W/O

THAN 2.5' ABOVE ALARM ELEV. "U'

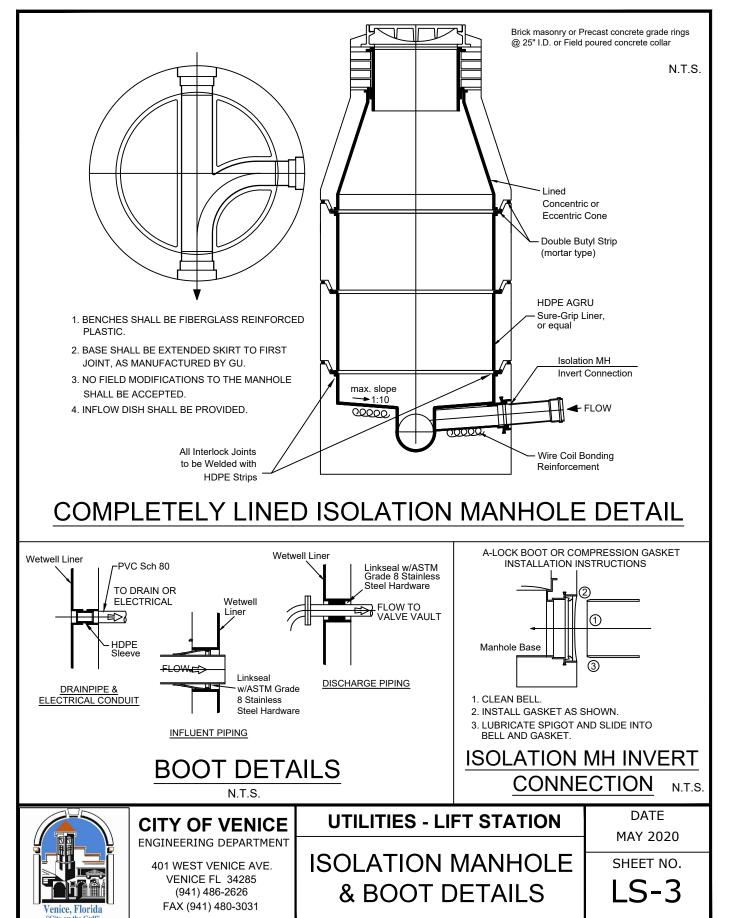
1'0" ABOVE ALARM ELEV."U'

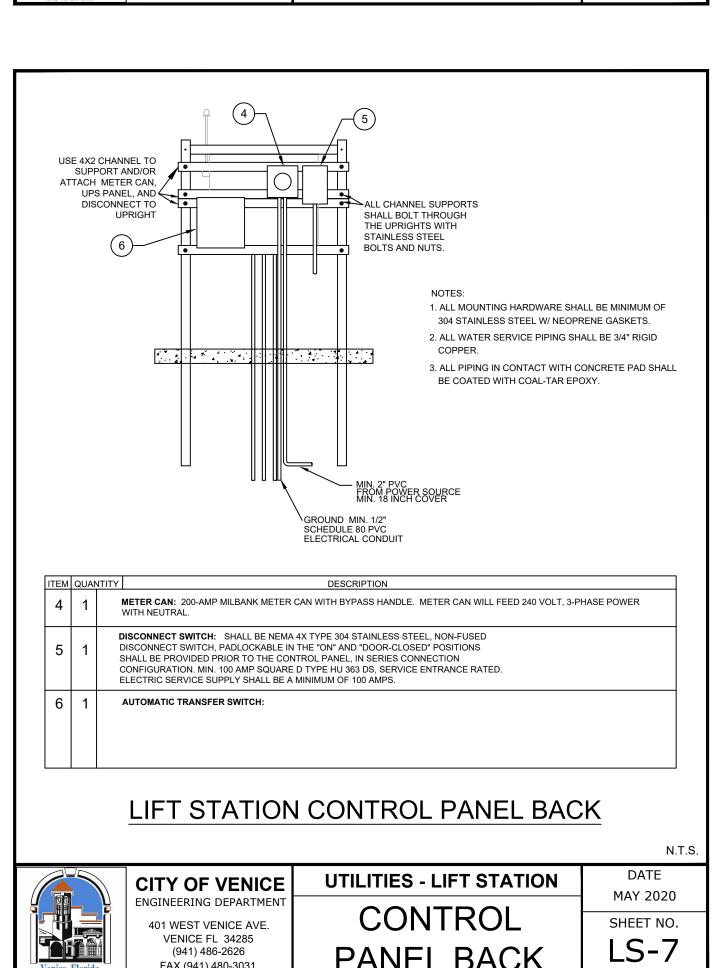
1. INSTALL SWEEP ELBOW

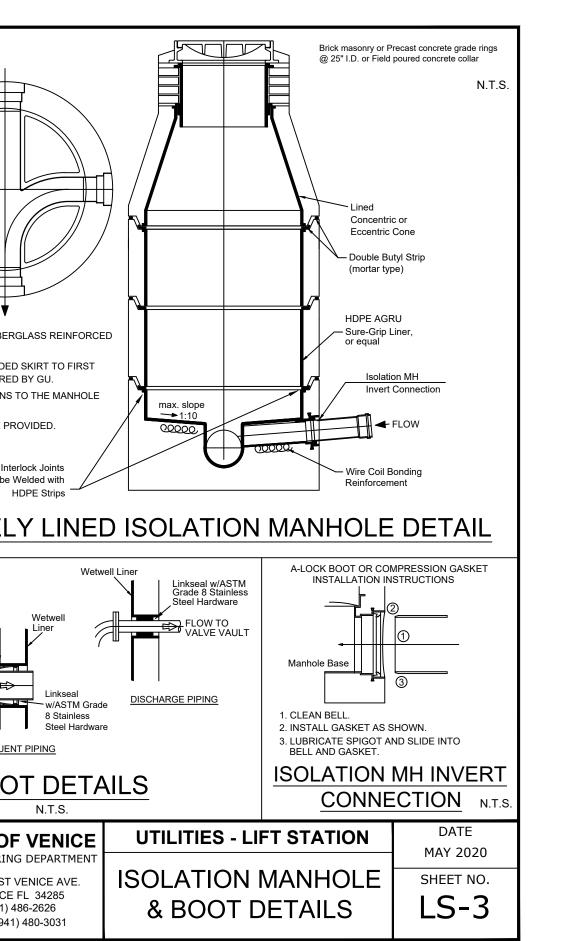
EXTEND DOWNPIPE T

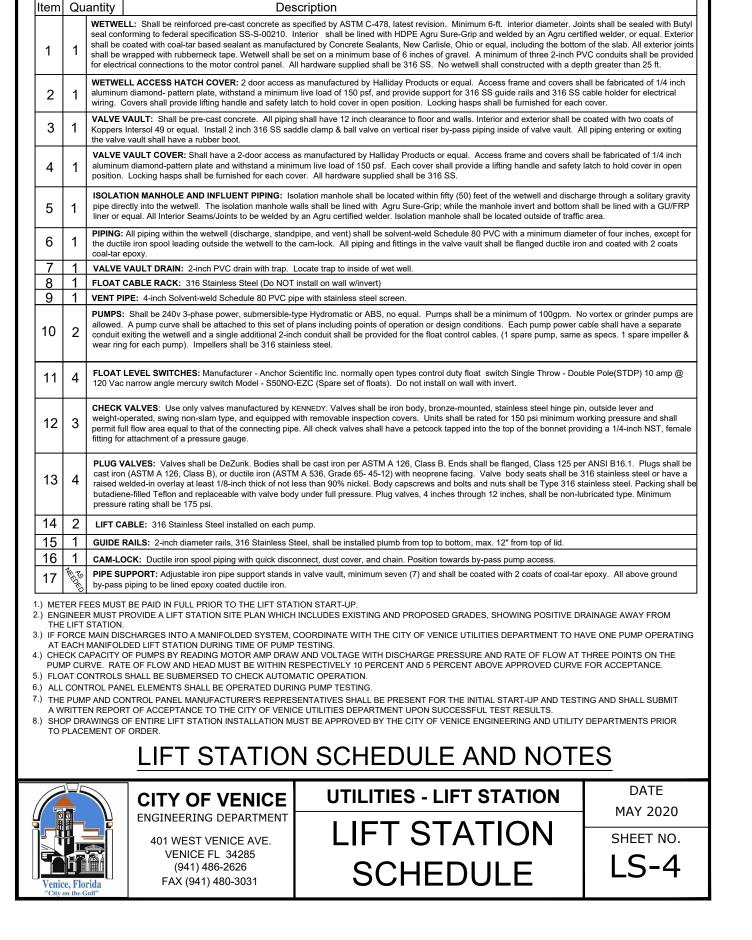
2. 90° ELBOW

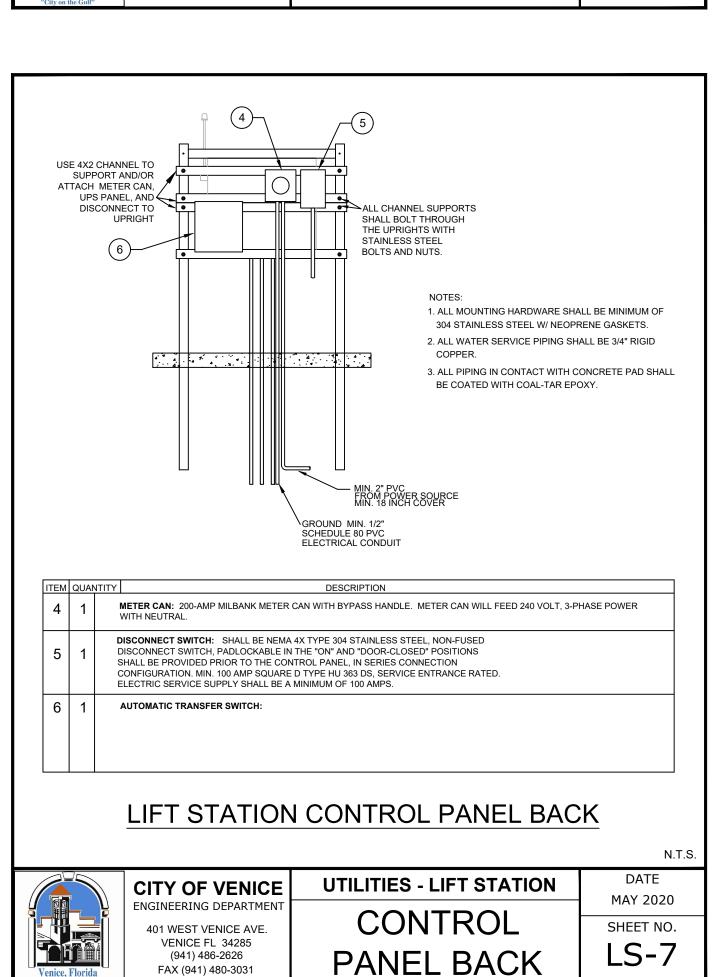
(TYP OF 2)

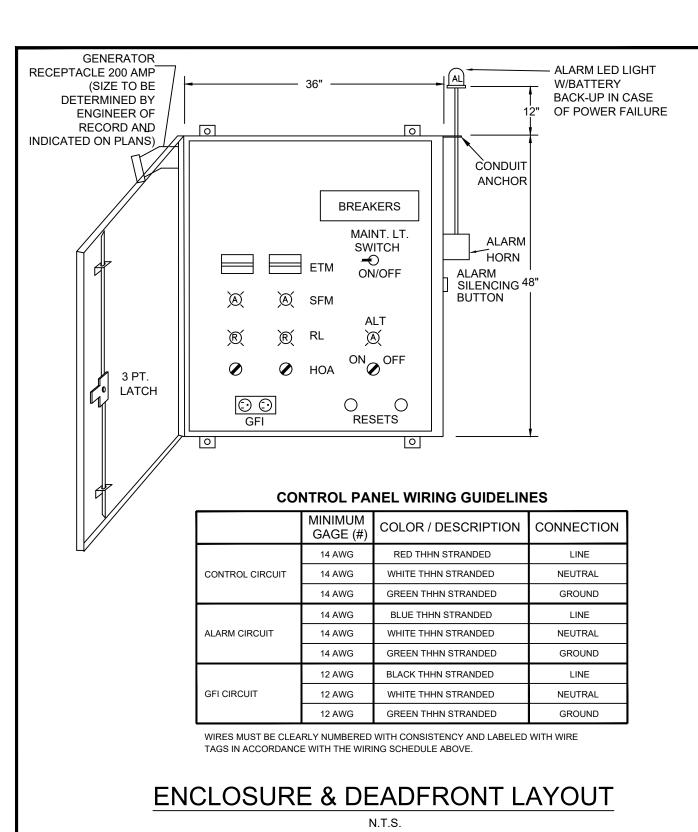














CITY OF VENICE NGINEERING DEPARTMENT 101 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031

UTILITIES - LIFT STATION ENCLOSURE & DEADFRONT LAYOUT

MAY 2020 SHEET NO. LS-8

ATION ENE

RESIDEI

Ĭ Z J

SHEET NUMBER

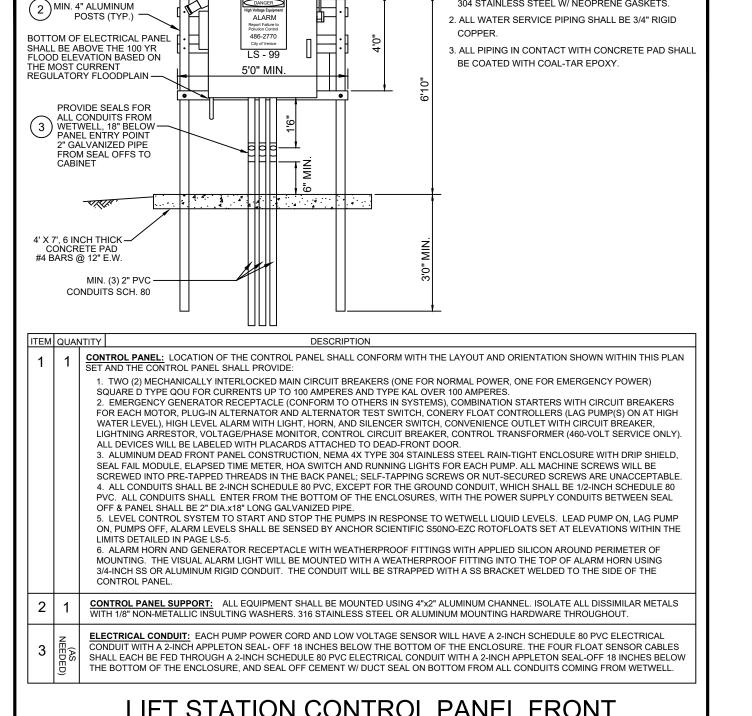
21'-0" CONTROL PANEL AND ANTENNA TO BE SUPPLIED BY DATA FLOW SYSTEMS, NO EQUAL. TOWER SECTION ROHN 20G RTU — **GROUND LEVEL** TO CONTROL PANEL 10'X5/8" COPPER, GROUND ROD 2' SQ, CONCRETE **TELEMETRY CONTROL PANEL & ANTENNA UTILITIES - LIFT STATION CITY OF VENICE** MAY 2020

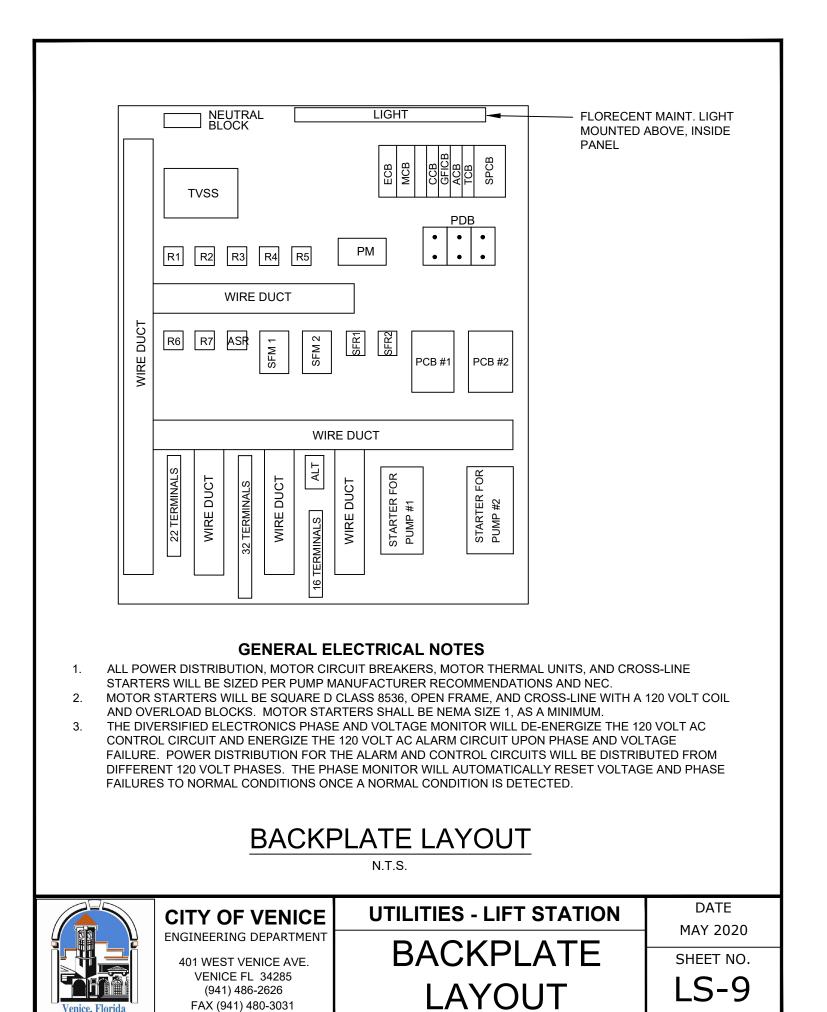
LIFT STATION

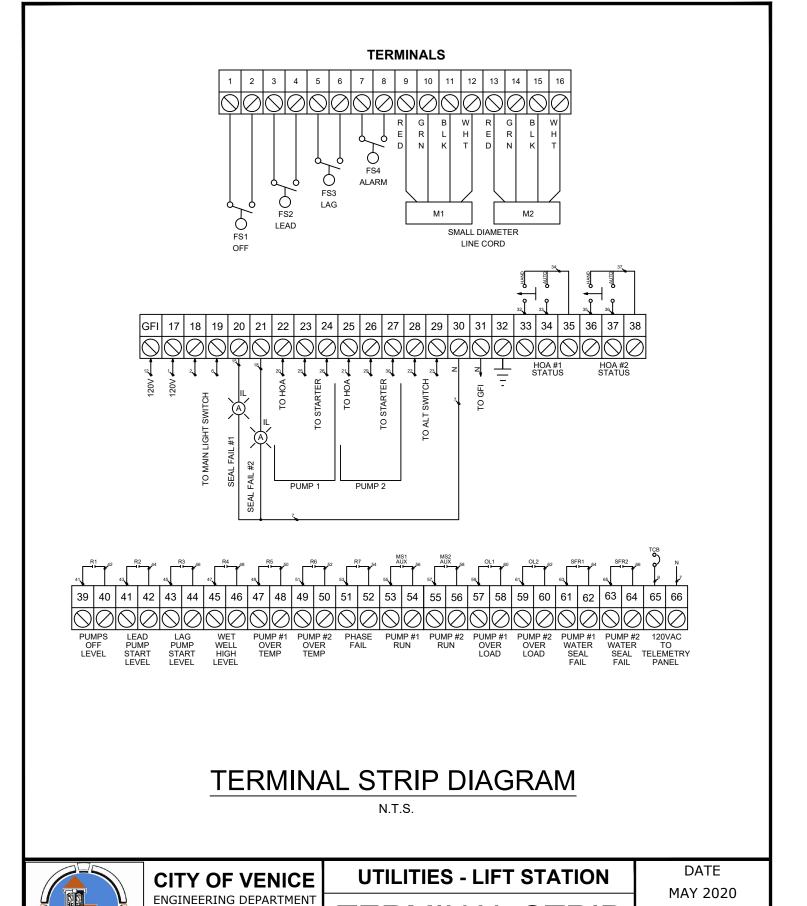
TELEMETRY

SHEET NO.

LS-5







TERMINAL STRIP

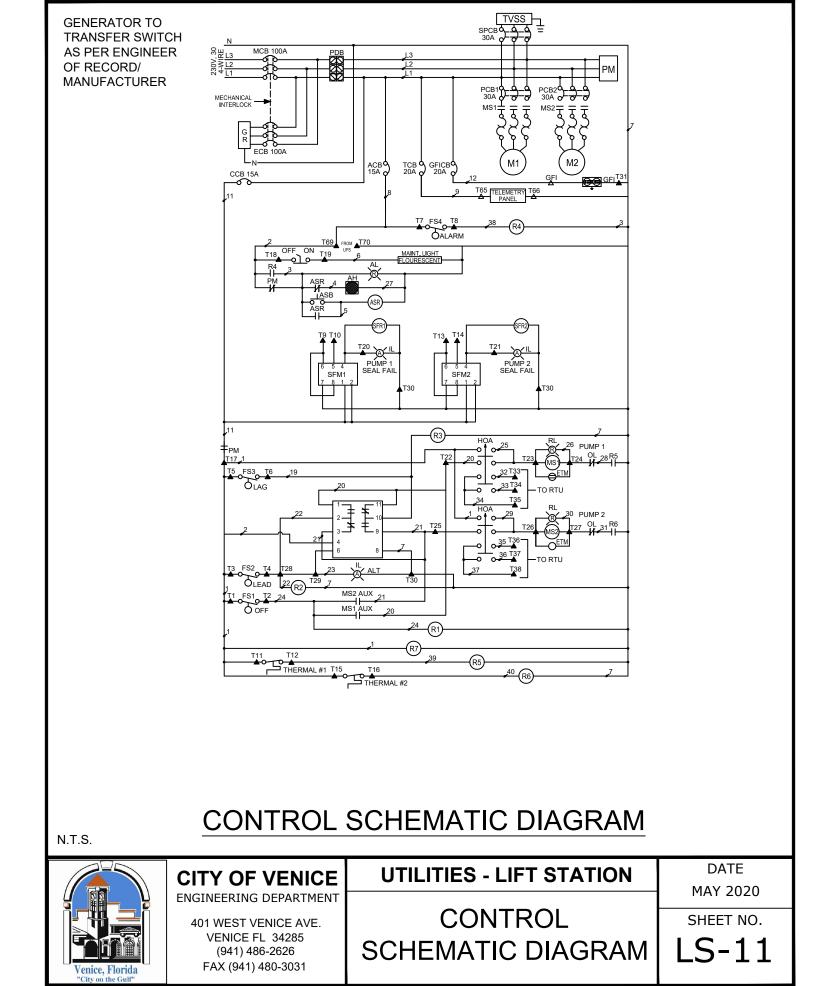
DIAGRAM

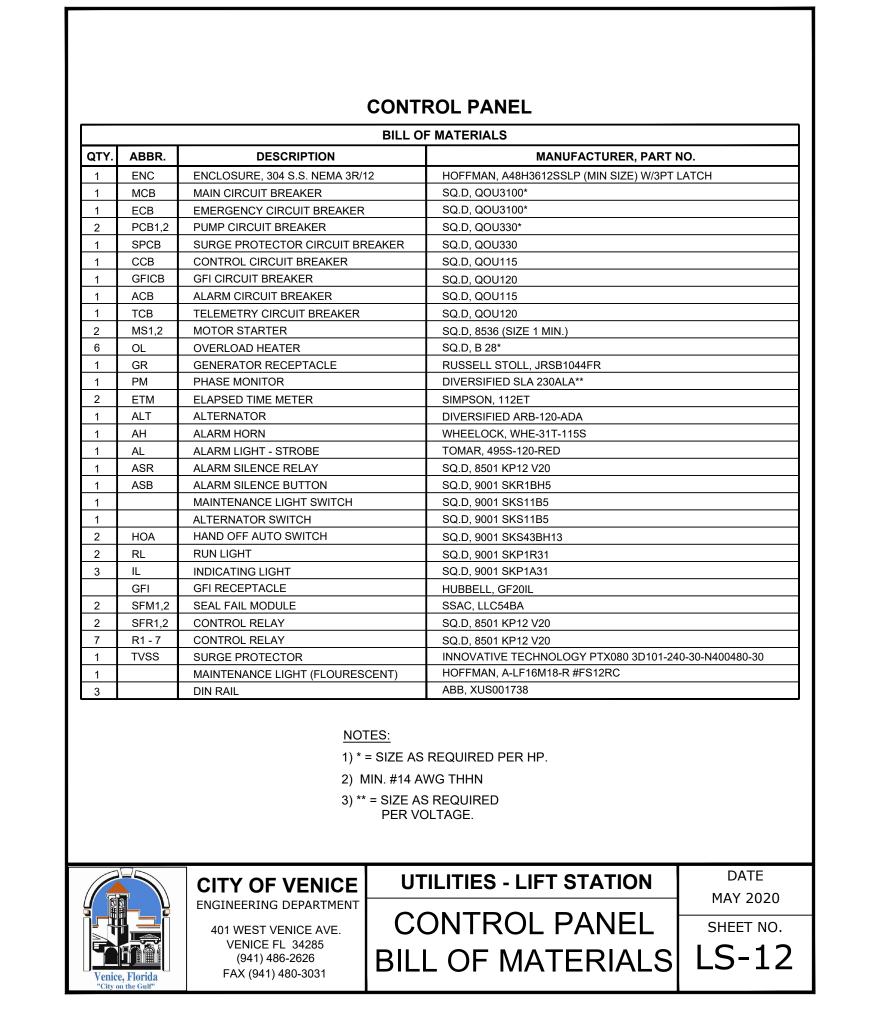
401 WEST VENICE AVE.

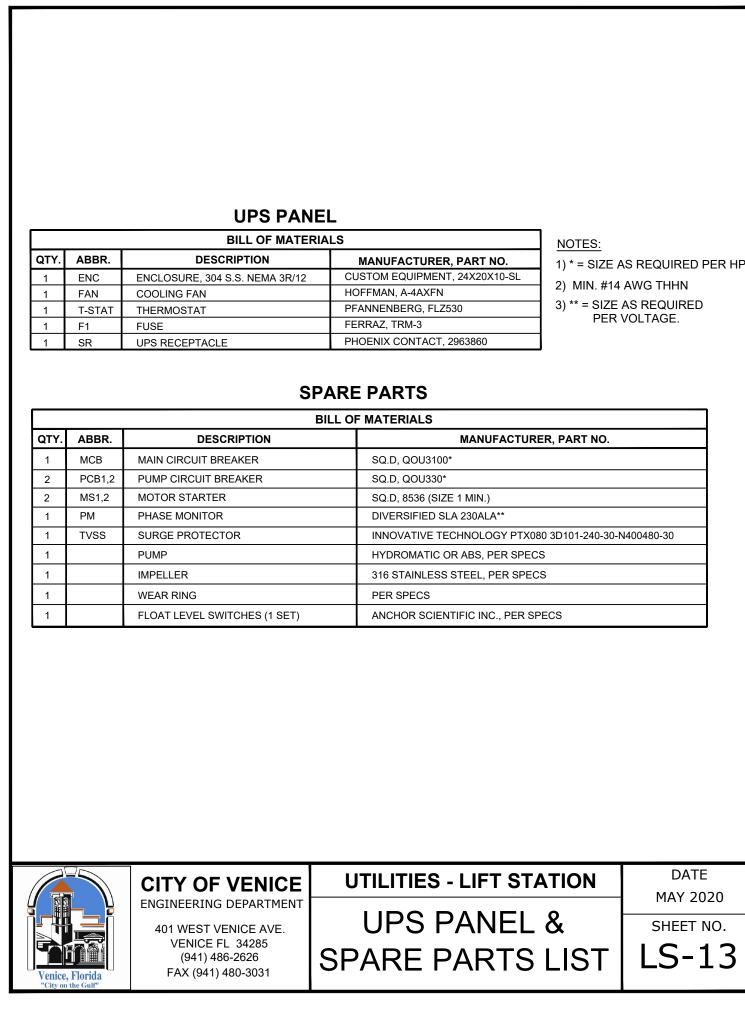
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SHEET NO.

LS-10

GENERATION AT VENICE

U

SHEET NUMBER

C-6

RESIDE