ADMINISTRATIVE APPROVAL PLANS for

NEW RESTROOM FACILITY
FRAN B. ADAMS NORTH COUNTY
REGIONAL PARK

in

INDIAN RIVER COUNTY, FLORIDA MAY 2023

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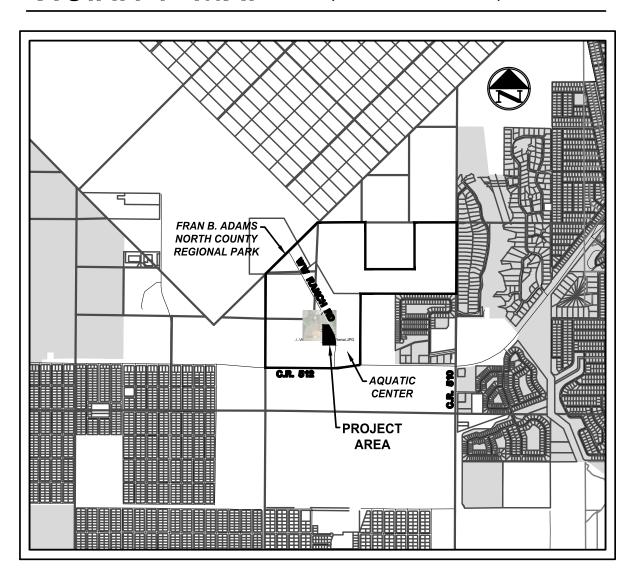


6 09/14/23 REV. AA PER IRC COMMENTS 09/06/23 MBB/SCG ITLE TO ALL DOCUMENTS WHICH BEAR THE REV. AA PER IRC COMMENTS 07/11/23 5 07/21/23 MBB/SCG OPYRIGHT OF MASTELLER & MOLER, INC. IS VESTEI REV. AA PER IRC BLDG CHANGE 05/05/23 4 05/05/23 MBB/SCG OLELY IN MASTELLER & MOLER, INC. THESI CUMENTS ARE PROVIDED TO THE OWNER SOLELY II 3 04/12/23 REV. FOR BIDDING CONNECTION WITH THIS PROJECT. ANY OTHER USE OF EUSE OF THESE DOCUMENTS OR ANY REPRODUCTION 2 02/07/23 REV. AA PER IRC BLDG CHANGE 02/07/23 ISPLAY, SALE, OR OTHER DISPOSITION OF THESI OCUMENTS BY ANYONE IS EXPRESSLY PROHIBITED REV. PER IRC COMMENTS 08/30/21 1 09/16/21 SG/EHM THOUT CONSENT OF MASTELLER & MOLER, INC URSUANT TO THE FEDERAL COPYRIGHT LAW. NO. DATE DESCRIPTION DR/APP

DATUM
THE DATUM AND DESIGN GRADES SHOWN WITHIN
THESE PLANS REFER TO THE
NORTH AMERICAN VERTICAL DATUM OF 1988
(NAVD 1988)

VICINITY MAP

(NOT TO SCALE)



OWNER / APPLICANT

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UTILITIES

LOCATION OF UTILITIES SHOWN ON THESE PLANS ARE PLOTTED FROM INFORMATION FURNISHED BY UTILITY COMPANIES AND ARE APPROXIMATE ONLY. CONTRACTOR IS TO FAMILIARIZE HIMSELF WITH, AND VERIFY CONDITIONS AT SITE. CONTRACTOR SHALL MAKE DILIGENT INQUIRY AT THE OFFICE OF THE UTILITY COMPANIES AND MUNICIPAL AUTHORITIES TO DETERMINE THE EXACT LOCATION OF UTILITY STRUCTURES. THE CONTRACTOR SHALL NOTIFY, IN WRITING, THE UTILITY COMPANIES, MUNICIPALITY AND OWNERS INVOLVED OF THE NATURE AND SCOPE OF THE PROJECT, AND OF HIS OPERATIONS THAT AFFECT THEIR FACILITIES OR PROPERTY.

NEW RESTROOM FACILITY
FRAN B. ADAMS NORTH COUNTY

REGIONAL PARK

MASTELLER & MOLER, INC.

M GONSULTING ENGINEERS

1655 27th Street, Suite #2, Vero Beach, Florida, 32960
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CERTIFICATE OF AUTHORIZATION NUMBER 4204

FOR BIDDING PURPOSES ONLY

SEAN C. GREEN, P.E. FL#90797

GENERAL NOTES

ALL WORK SHALL BE COMPLETED IN CONFORMANCE AS APPLICABLE WITH FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." LATEST EDITION 2 SHOP DRAWINGS SHALL BE SLIBMITTED TO THE OWNER'S

REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO MANUFACTURE. 3. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ANY UNDERGROUND UTILITIES PRIOR TO EXCAVATION. 4. ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND IF ANY DISCREPANCIES ARE DISCOVERED, THE OWNER

SHALL BE NOTIFIED IMMEDIATELY 5. CONTRACTOR SHALL COORDINATE ALL WORK WITH UTILITY COMPANIES PRIOR TO START OF CONSTRUCTION IN ORDER TO PREVENT DAMAGE TO EXISTING UTILITIES AND THE ADJUSTMENT AND/OR RELOCATION OF SAME IF

6. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL REQUIRED ROAD CROSSING PERMITS.

7. CONTRACTOR IS ADVISED TO FAMILIARIZE HIMSELF WITH THE OVERALL SCOPE OF WORK TO BE PERFORMED PRIOR TO SUBMITTING A BID. 8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF ANY CHANGES OR DEVIATIONS FROM THE ORIGINAL PLANS PRIOR

TO CONSTRUCTION OF SAID CHANGE OR DEVIATION. 9. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES AND UTILITIES. ANY DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

10. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY INSURANCE AND BONDS REQUESTED BY THE OWNER FOR THIS PROJECT. 11. THE OWNER WILL PROVIDE THE SELECTED CONTRACTOR WITH COPIES OF ALL

PERMITS RECEIVED FOR THE PROJECT 12. ANY FEDERAL DATUM MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE THE PROJECT ENGINEER SHOULD

> GEODETIC INFORMATION CENTER ATTN: MARK MAINTENANCE SECTION ATTN: N/CG-162 6001 EXECUTIVE BLVD. ROCKVILLE, MARYLAND 20852

TELEPHONE NO. (301) 443-8319 13. THE ELEVATIONS AS SHOWN ON THESE PLANS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

14. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES. 15. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE PROJECT ENGINEER SHOULD BE NOTIFIED IMMEDIATELY IN ORDER THAT THE COUNTY MAY HAVE A SURVEYOR REFERENCE SAID POINT PRIOR TO DISTURBANCE. ALSO, ALL GPS CONTROL POINTS ARE TO BE PROTECTED. IF DESTROYED DURING CONSTRUCTION, IT WILL BE THE CONTRACTOR RESPONSIBILITIES TO REPLACE THE GPS CONTROL POINTS AT THEIR EXPENSE.

16. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES, ONE COPY OF APPROVED CONSTRUCTION PLANS, SPECIFICATIONS AND ANY SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS. 17. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER.

EROSION CONTROL NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL WITHIN BEST MANAGEMENT PRACTICES FOR THE DURATION OF THE PROJECT UNTIL SUCH TIME AS THE PROJECT HAS BEEN CERTIFIED AS COMPLETE. SEE SWPPP TEMPLATE (THIS SHEET) FOR ADDITIONAL NOTES. 2. ALL DISTURBED AREAS WITHIN RIGHTS-OF-WAY SHALL BE SODDED WITHIN THREE DAYS OF FINAL GRADING.

CONSTRUCTION STAKEOUT NOTIFICATION

SOME CONSTRUCTION ELEMENTS DEPICTED ON THESE PLANS ARE DRAWN NOT TO SCALE IN ORDER TO PROVIDE CLARITY AS TO THE SCOPE OF WORK. THESE ELEMENTS INCLUDE BUT MAY NOT BE LIMITED TO CURBS. MANHOLES. VALVES. METERS & FIRE HYDRANTS. ETC. THE CONTRACTOR IS ADVISED TO UTILIZE BOTH THE PLAN VIEW AND DETAILS TO ACCURATELY CONSTRUCT ALL PROPOSED IMPROVEMENTS.

<u>UTILITIES NOTES:</u>

1. ALL UTILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH INDIAN RIVER COUNTY UTILITIES STANDARDS. 2. THE CONTRACTOR SHALL NOTIFY THE OWNER, ENGINEER AT (772-) 567-5300 AND UTILITIES DEPARTMENT A MINIMUM OF (48) HOURS PRIOR TO

COMMENCEMENT OF CONSTRUCTION. 3. ALL POTABLE WATER PIPING, JOINTING AND PACKING MATERIALS, INTERNAL COATING AND LININGS, FITTINGS, SPECIALS, AND APPURTENANCES USED IN THIS PROJECT SHALL BE IN CONFORMANCE WITH THE CORRESPONDING AWWA STANDARDS AND BE CONFORMING TO NSF REQUIREMENTS AS APPLICABLE. 4. ALL PIPE AND PIPE FITTINGS AS WELL AS SOLDER AND FLUX INSTALLED OR USED

UNDER THE CONSTRUCTION OF THIS PROJECT ARE TO COMPLY WITH F.A.C. 62-555.322 WITH REGARD TO LEAD 5. ALL WATER SERVICE LINES INSTALLED UNDER THIS PROJECT ARE TO COMPLY WITH

AWWA C800. 6. ALL PEXa TUBING 3" AND SMALLER FOR WATER MAINS SHALL BE THICKNESS SDR-9 MEETING AWWA C904

7. ALL PVC PIPE 4"-12" IN DIAMETER FOR WATER MAINS SHALL BE THICKNESS CLASS DR-18 MEETING AWWA C900-97, OR LATEST REVISION, OR C909-98, OR LATEST REVISION. 8. ALL PVC PIPE 14"-36" IN DIAMETER FOR WATER MAINS SHALL BE THICKNESS CLASS DR-18 MEETING AWWA C900-97 AND ASTM D1784. OR LATEST REVISIONS. 9. ALL DIP FOR WATER MAINS SHALL BE PRESSURE CLASS 350 MEETING AWWA SPECIFICATION C150 (A 21.50-96) OR LATEST REVISION.

10. ALL PVC PIPE FOR GRAVITY SEWER MAINS SHALL BE EXTRA STRENGTH PVC PIPE AND SHALL CONFORM TO THE LATEST ASTM DESIGNATION D3034—SDR26 AND SHALL BE PAINTED GREEN OR APPROVED EQUAL. 11. ALL PVC PIPE FOR SEWAGE FORCE MAIN 4" - 12" DIAMETER SHALL BE C900 OR C909.

LATEST REVISIONS AND SHALL BE BROWN OR GREEN OR APPROVED EQUAL.

12. ALL PVC PIPE FOR REUSE FORCE MAIN 4" — 12" DIAMETER SHALL BE C900 OR C909, LATEST REVISIONS AND SHALL BE PURPLE OR APPROVED EQUAL 13. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ANY UNDERGROUND UTILITIES PRIOR TO EXCAVATION.

14. ALL GENERAL CONSTRUCTION, MATERIAL TESTING AND METHODS OF INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF INDIAN RIVER COUNTY

15. ALL POTABLE WATER PIPE AND PIPE FITTINGS INSTALLED WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(B)3, F.A.C. USING BLUE AS THE PREDOMINANT COLOR.

16. ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND IF ANY DISCREPANCIES ARE DISCOVERED, THE OWNER SHALL BE NOTIFIED IMMEDIATELY.

17. CONTRACTOR SHALL COORDINATE ALL WORK WITH UTILITY COMPANIES PRIOR TO START OF CONSTRUCTION IN ORDER TO PREVENT DAMAGE TO EXISTING UTILITIES AND THE ADJUSTMENT AND/OR RELOCATION OF SAME IF REQUIRED. 18. CONTRACTOR SHALL OBTAIN A COPY OF THE F.D.E.P. WATER & WASTEWATER PERMITS & PERFORM SAMPLING & TESTING IN CONFORMANCE W/ PERMIT CONDITIONS. 19. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL REQUIRED

ROAD CROSSING PERMITS. 20. CONTRACTOR IS ADVISED TO FAMILIARIZE HIMSELF WITH THE OVERALL SCOPE OF WORK TO BE PERFORMED PRIOR TO SUBMITTING A BID. 21. WATER MAIN AND FORCE MAINS SHALL BE INSTALLED WITH 36" MINIMUM COVER AND SHALL BE CONSTRUCTED SO AS TO AVOID EXISTING AND KNOWN FUTURE UTILITY LOCATIONS.

22. ALL WORK SHALL BE COMPLETED IN CONFORMANCE AS APPLICABLE WITH FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION AND THE STANDARDS OF THE UTILITY OWNER.

23. WATERMAIN & FORCEMAIN PIPES INSTALLED UNDER PAVEMENT SHALL BE D.I.P. WITH 36" MIN. COVER (42" MIN. COVER FOR P.V.C. PIPE) 24. BENDS SHALL BE INSTALLED ON WATER MAINS AS NECESSARY TO AVOID CONFLICT WITH PROPOSED OR EXISTING STRUCTURES AT NO ADDITIONAL COST TO

25. ALL CONSTRUCTION SHALL COMPLY WITH THE STANDARDS AND

SPECIFICATIONS OF THE UTILITY OWNER. SHOP DRAWINGS FOR ALL SEWER AND

WATER APPURTENANCES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FARRICATION. 26. ALL PRESSURE AND BACTERIOLOGICAL TESTING FOR WATER MAINS, TV/INFILTRATION/EXFILTRATION TESTS FOR GRAVITY SEWER AND PRESSURE TEST FOR FORCE MAINS, SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND COORDINATED WITH THE OWNER, ENGINEER AND UTILITY OWNER. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ALL TEST RESULTS.

27. THE CONTRACTOR SHALL SUPPLY THE OWNER AND ENGINEER WITH TWO COPIES OF AS-CONSTRUCTED INFORMATION SHOWING THE CONSTRUCTED LOCATION OF ALL MAINS, FITTINGS, VALVES, LATERALS (AT THE MAIN AND TERMINAL POINT), MANHOLES AND OTHER WATER AND SEWER APPURTENANCES. THE FORMAT SHALL BE APPROVED BY THE OWNER AND/OR UTILITY PRIOR TO SUBMISSION.

28. WATER MAINS AND FORCE MAIN SHALL BE FLUSHED AT A MINIMUM VELOCITY OF 2.5 FPS PRIOR TO PRESSURE TESTING AND DISINFECTION. 29. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF ANY CHANGES OR DEVIATIONS FROM THE ORIGINAL PLANS PRIOR TO CONSTRUCTION OF SAID CHANGE OR DEVIATION.

30. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES AND UTILITIES. ANY DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

31. LATERALS AND CLEANOUTS SHALL BE INSTALLED AS REQUIRED BY APPLICABLE PLUMBING CODES. 32. INSPECTION OR FAILURE TO INSPECT ANY MATERIALS OR WORKMANSHIP BY THE UTILITY OWNER OR OTHER AGENCIES SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE PLANS SPECIFICATIONS AND LAWS.

33. THE CONTRACTOR SHALL OBTAIN A CURRENT COPY OF THE UTILITY OWNER CONSTRUCTION SPECIFICATIONS FOR WATER DISTRIBUTION AND SEWAGE COLLECTION FACILITIES PRIOR TO BIDDING THE UTILITY WORK. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THE UTILITY'S SPECIFICATIONS AND THE ENGINEER'S SPECIFICATIONS, THE UTILITY'S SPECIFICATIONS SHALL SUPERSEDE.

34. TRACE WIRE SHALL BE INSTALLED OVER ALL WATER MAINS AND SEWAGE FORCE MAINS. #10 MULTIPLE-STRAND CONDUCTOR COPPER TRACE WIRE SHALL BE AFFIXED TO THE TOP OF PIPE. SEE TRACE WIRE DETAIL FOR SPECIFICATIONS. 35. USE POTABLE WATER FOR PRESSURE TESTS.

36. ALL POTABLE WATER MAINS SHALL BE CONSTRUCTED OF P.V.C. PIPE UNLESS NOTED OTHERWISE. 37. FORCE MAIN SHALL BE PRESSURE TESTED THE SAME AS WATER MAINS,

EXCEPT THAT TEST PRESSURE SHALL AVERAGE NO LESS THAN 100 PSI. 38. THE CONTRACTOR SHALL DISINFECT THE NEW WATER SYSTEM IN CONFORMANCE WITH AWWA-C651 SPECIFICATIONS ANT THE NOTES THIS SHEET. A 39. WATER SYSTEM PRESSURE TESTS SHALL BE COMPLETED IN THE PRESENCE OF THE ENGINEER OR HIS REPRESENTATIVE, FOR TWO (2) HOURS IN DURATION AS ACCEPTABLE TO UTILITY OWNER, AT AN AVERAGE PRESSURE OF 150 PSI. ALLOWABLE LEAKAGE WILL BE COMPUTED BASED ON AWWA C600 FOR

DIP AND AWWA C605 FOR PVC. NDP 1/2

WHERE: L = LEAKAGE ALLOWABLE (GPH)N = NUMBER OF JOINTSD = NOMINAL DIAMETER (INCHES)

P = AVERAGE PRESSURE (PSI)PRESSURE TESTING FOR PVC PIPE SHALL BE BASED ON AWWA STANDARD C605.

40. A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDER-GROUND PIPE. BACKFILL OVER ANY WATER MAIN, FORCE MAIN AND SANITARY SEWER THAT IS TO BE INSTALLED UNDER PAVING, IS TO BE COMPACTED IN 12" LIFTS MAXIMUM TO A MINIMUM OF 95% MAXIMUM DENSITY WITH A MECHANICAL TAMPER OR OTHER MEANS ACCEPTABLE TO THE OWNER AND/OR ENGINEER. UNSUITABLY SIZED STONES (AS DESCRIBED IN AWWA STANDARDS) SHALL BE REMOVED FROM THE TRENCH FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF THE PIPE. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH COMPACTION TEST RESULTS AT 400'

INTERVALS AT HIS EXPENSE BASED ON AASHTO T-180 SPECIFICATIONS. 41. AT ALL INSTANCES WHERE WATER MAINS CROSS ABOVE OR BELOW REUSE MAINS, STORM CULVERTS, SANITARY SEWER, OR SANITARY SEWER FORCE MAIN, THE CONTRACTOR IS TO PRO-VIDE "AS-BUILT" INFORMATION TO THE ENGINEER DETAILING THE VERTICAL CLEARANCE OBTAINED. 42. WATER MAINS SHALL BE LAID AT LEAST 7 FEET (EDGE TO EDGE) FROM ANY EXISTING OR PROPOSED STORM SEWER, SANITARY SEWER, OR SANITARY SEWER FORCE MAIN. WATER MAINS CROSSING SEWERS OR STROM PIPES SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF 18 INCHES AND SHALL BE LAID SO THAT ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED AT THE CROSSING. WATER MAINS SHALL NEITHER PASS THROUGH NOR CONTACT SEWER MANHOLES.

PLEASE NOTE IN THE EVENT THAT F.D.E.P. AND CITY OF INDIAN RIVER COUNTY STANDARDS CONFLICT, THE MORE STRINGENT STANDARD SHALL APPLY. 43. WATER MAINS CROSSING ANY UTILITIES WILL BE LAID SO THAT ONE FULL LENGTH OF

WATER MAIN WILL BE CENTERED AT THE CROSSING. **FDEP SEPARATION NOTES:**

1. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SEVEN FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY— OR PRESSURE—TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE HE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER NEW OR RELOCATED LINDERGROUND WATER MAINS. CROSSING AN EXISTING OR PROPOSED GRAVITY— OR VACILLIM—TYPE SANITARY SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES. AND PREFERABLY 12 INCHES. ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE

OTHER PIPELINE. AT THE UTILITY CROSSING DESCRIBED ABOVE, ON FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE, ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHAL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWER, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610 F.A.C.. AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS. WASTEWATER FORCE MAINS. OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610 F.A.C.

PLEASE NOTE IN THE EVENT THAT F.D.E.P. AND INDIAN RIVER COUNTY STANDARDS CONFLICT, THE MORE STRINGENT STANDARD SHALL APPLY.

2. WATER MAINS CROSSING ANY UTILITIES WILL BE LAID SO THAT ONE FULL LENGTH OF WATER MAIN WILL BE CENTERED AT THE CROSSING.

-555.340 Disinfection and Bacteriologica Evaluation of Public Water System Components (2) BACTERIOLOGICAL EVALUATIONS TO VERIFY PROPER DISINFECTION OF TREATMENT OR STORAGE FACILITIES AND WATER MAINS SHALL BE CONDUCTED AS SET FORTH IN

PARAGRAPHS (A) THROUGH (C) BELOW. THE TOTAL RESIDUAL CHLORINE MEASUREMENTS

REPRESENTATIVE OF THE SUPPLIER OF WATER OR PERSON CONSTRUCTING OR ALTERING

REQUIRED UNDER PARAGRAPH (A) MAY BE PERFORMED BY ANY AUTHORIZED

PROCEDURES FOR FIELD ACTIVITIES, DEP-SOP-001/01, AS INCORPORATED INTO RULE 62-160.800, F.A.C. THE TOTAL COLIFORM ANALYSES REQUIRED UNDER PARAGRAPH (A) SHALL BE PERFORMED BY A LABORATORY OF THE DEPARTMENT OF HEALTH (DOH) OR A LABORATORY CERTIFIED BY THE DOH TO PERFORM BACTERIOLOGICAL ANALYSES OF DRINKING WATER AND SHALL BE PERFORMED USING AN APPROPRIATE METHOD REFERENCED IN SUBSECTION 62-550.550(1), FA.C. (A) AFTER REDUCING THE TOTAL CHLORINE RESIDUAL IN THE FACILITIES OR MAINS TO NO MORE THAN FOUR

MORE THAN 60 DAYS BEFORE THE DEPARTMENT RECEIVED THE RESULTS

THE TREATMENT OR STORAGE FACILITIES OR WATER MAINS BUT SHALL BE PERFORMED FOLLOWING THE

APPROPRIATE PROCEDURES IN THE DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARD OPERATING

MILLIGRAMS PER LITER, A TOTAL OF AT LEAST TWO SAMPLES - EACH TAKEN ON A SEPARATE DAY AND TAKEN AT LEAST SIX HOURS APART FROM THE OTHER SAMPLE(S) - SHALL BE COLLECTED AT EACH OF THE LOCATIONS IN THE APPLICABLE AWWA STANDARD REFERENCED IN SUBSECTION (1) ABOVE, AND THE SAMPLES SHALL BE ANALYZED FOR TOTAL RESIDUAL CHLORINE AND FOR THE PRESENCE OF TOTAL COLIFORM. (B) IF ANY SAMPLE CONTAINS MORE THAN FOUR MILLIGRAMS PER LITER OF TOTAL CHLORINE, THE SAMPLE SHALL BE CONSIDERED INVALID. IF ANY SAMPLE SHOWS THE PRESENCE OF TOTAL COLIFORM, THE FACILITIES OR MAINS SHALL BE REDISINFECTED AS NECESSARY IN ACCORDANCE WITH SUBSECTION (1) ABOVE AND RESAMPLED IN ACCORDANCE PARAGRAPH (A) ABOVE UNTIL TWO CONSECUTIVE SAMPLES AT EACH SAMPLING LOCATION SHOW THE ABSENCE OF TOTAL COLIFORM. (C) BACTERIOLOGICAL TEST RESULTS SHALL BE CONSIDERED UNACCEPTABLE IF THE TESTS WERE COMPLETED

(5) WHEN TAKING WATER MAINS OUT OF OPERATION FOR REPAIR OR REHABILITATION THAT MIGHT LEAD TO CONTAMINATION OF WATER. THE MAINS MAY BE RETURNED TO OPERATION WITHOUT THE DEPARTMENTS APPROVAL AFTER DISINFECTION AND BEFORE COMPLETION OF A BACTERIOLOGICAL EVALUATION IN ORDER TO MINIMIZE THE TIME CLISTOMERS ARE WITHOUT WATER/ AN ADVISORY OR A PRECAUTIONARY "ROIL WATER" NOTICE SHALL BE ISSUED IF DEEMED NECESSARY BY THE SUPPLIER OF WATER OR IF RECOMMENDED IN THE DEPARTMENT OF HEALTH'S "GUIDELINES FOR THE ISSUANCE OF PRECAUTIONARY BOIL WATER NOTICES" AS ADOPTED IN RULE 62-555.335, F.A.C. A BACTERIOLOGICAL EVALUATION STILL MUST BE SATISFACTORILY COMPLETED IN ACCORDANCE WITH SUBSECTION (2) ABOVE AFTER THE MAINS ARE RETURNED TO OPERATION. IF ANY BACTERIOLOGICAL SAMPLE SHOWS THE PRESENCE AFTER THE MAINS ARE RETURNED TO OPERATION. IF ANY BACTERIOLOGICAL SAMPLE SHOWS OF TOTAL COLIFORM, THE SUPPLIER OF WATER SHALL TELEPHONE, AND SPEAK DIRECTLY TO A PERSON AT, THE APPROPRIATE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) DISTRICT OFFICE OF APPROVED COUNTY HEALTH DEPARTMENT (ACHD) AS SOON AS POSSIBLE, BUT NEVER LATER THAN NOON OF THE NEXT BUSINESS DAY. OTHERWISE, OTHERWISE, THE RESULTS OF THE BACTERIOLOGICAL EVALUATION SHALL BE SUBMITTED TO THE APPROPRIATE DEP

DISTRICT OFFICE OR ACHD ALONG WITH THE NEXT MONTHLY OPERATION REPORT(S) REQUIRED UNDER PARAGRAPH

F A C. WITHIN TEN DAYS AFTER THE END OF THE MONTH DURING WHICH THE BACTERIOLOGICAL EVALUATION

62-555.350(12)(B), F.A.C., OR IF NO MONTHLY OPERATION REPORT IS REQUIRED UNDER PARAGRAPH 62-555.350(12)(B),

PAVING NOTES:

WAS COMPLETED.

1 STRIP THE PROPOSED CONSTRUCTION LIMITS, INCLUDING A MARGIN OF AT LEAST FIVE BEYOND PAVEMENT EDGES, OF VEGETATION, ROOTS, RUBBLE AND OTHER DELETERIOUS MATERIALS, WE EXPECT AVERAGE CLEARING AND GRUBBING TO DEPTHS OF UP TO 6" TO 12" IN MOST AREAS OF THE ROADWAYS: HOWEVER AT SOME LOCATIONS. GRUBBING DEPTHS OF UP TO SEVERAL FEET MAY BE NECESSARY TO REMOVE LOCALIZED POCKETS OF ROOT MATS AND/OR LARGE STUMPS. THIS STRIPPED AND GRUBBED SURFACE SHOULD BE

EXAMINED AND APPROVED BY THE ENGINEER BEFORE PLACEMENT OF SUBSEQUENT FILLS. ANY EXISTING COLLAPSIBLE OR LEAK PRONE UTILITIES_SHOULD_BE__COMPLETELY REMOVED FROM PAVEMENT AREAS PROOF ROLL THE STRIPPED SURFACE WITH A VIBRATORY ROLLER WEIGHING AT LEAST 6 TONS UNDER TH SUPERVISION OF THE ENGINEER, TO LOCATE ANY UNFORESEEN SOFT AREAS OF UNSUITABLE SOILS, TO INCREASE THE DENSITY OF THE SHALLOW VERY LOOSE TO LOOSE FINE SAND SOILS, AND TO PREPARE THE EXCAVATED SURFACE FOR THE ADDITION OF THE FILL SOILS. EACH PASS SHOULD OVERLAP THE PROCEEDING PASS BY 30% TO INSURE COMPLETE COVERAGE. IF DEEMED. NECESSARY. IN AREAS THAT CONTINUE TO YIELD. REMOVE ALL DELETERIOUS MATERIALS AS INDICATED BY ENGINEER PERSONNEL AND REPLACE WITH A CLEAN COMPACTED SAND BACKFILL. THE PROOF- ROLLING SHOULD OCCUR AFTER STRIPPING AND BEFORE FILLING.

3. CONTINUE COMPACTION EFFORTS UNTIL A SOIL DENSITY OF AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) IS ACHIEVED TO A DEPTH OF 12" BELOW THE STRIPPED SURFACE, INCLUDING THE FIVE FEET MARGIN. DEPENDING ON WEATHER CONDITIONS OR OTHER FACTORS, THE ADDITION OR DRAINAGE OF WATER MAY BE NECESSARY TO AID COMPACTION EFFORTS. ADDITIONAL PASSES AND/OR OVER-EXCAVATION AND RE-COMPACTION MAY BE NECESSARY IF THESE MINIMUM DENSITY

REQUIREMENTS ARE NOT ACHIEVED BY THE REQUIRED PROOF-ROLLING. 4. FILL TO SUBGRADE LEVEL USING CLEAN SANDS WITH LESS THAN 5% SOIL FINES PASSING THE NO. 200 SIEVE. STRUCTURAL FILL SHOULD BE FREE OF ANY ORGANICS OR OTHER DELETERIOUS MATERIAL. THE FILL SHOULD BE PLACED IN UNIFORM 12" LOOSE LIFTS AND COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (AASHTO T-180, ASTM D 1557)

5. THE OWNER RESERVES THE RIGHT TO REQUEST FROM THE CONTRACTOR ASPHALTIC CONCRETE SURFACE COURSE MIX CERTIFICATIONS TO ASSURE COMPLIANCE WITH F.D.O.T. SPECIFICATIONS. 6. IMPROPER DRAINAGE OF PAVED AREAS AND DRAINAGE SWALES WILL NOT BE ACCEPTED. ANY PONDING OR IMPROPERLY DRAINED AREAS WILL BE COMPLETELY STRIPPED OUT AND RE-GRADED OR RE-PAVED UNTIL ALL

DEFECTIVE DRAINAGE IS CORRECTED, AT NO ADDITIONAL COST. TRAFFIC CONTROL SIGNAGE SHALL BE ERECTED AND PAVEMENT MARKINGS SHALL BE PAINTED AS REQUIRED BY ORDINANCE AND THE GOVERNING AUTHORITY SPECIFICATIONS. ALL TRAFFIC PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY SHALL BE EXTRUDED ALKYD BASE THERMOPLASTIC.

LEGEND DESCRIPTION **EXISTING** \bigcirc **BLOCK NUMBER** BUILDING OR STRUCTURE CENTERLINE HEAD WALL

DRAINAGE FLOW ARROW

SOIL BORING LOCATION AND NO.

FINISH FLOOR

SPOT ELEVATION

STRUCTURE NUMBER **SWALE** BASIN DIVIDE CUT AND PATCH SILT FENCE EASMENT LINE CLEAN OUT FENCE (AS INDICATED) UNDERDRAIN DITCH BLOCK PLUG. BLOW-OFF & TERMINAL PHASE LINE _ _ _ _ _ REDUCER PROPERTY LINE RAILROAD TRACKS RIGHT-OF-WAY LINE _____ ____ GATE VALVE & BOX SIGN (POST MOUNTED) -,-TRAFFIC FLOW ARROW WATERMAIN W/ 3 \Rightarrow COVER TYPICAL ASPHALT DRIVE 1"ø SERVICE LATERAL W/ METER BOX GRAVEL DRIVE 1-1/2"ø SERVICE LATERAL W/ CONCRETE DRIVE (2) METER BOXS **EDGE OF PAVEMENT** RESTRAINED JOINT TEE MAILBOX/NEWSPAPER BOX RESTRAINED BEND BENCH MARK TELEPHONE JUNCTION BOX CONCRETE FLUME TELEPHONE LINE ---- TELE ---- TELE ----CONCRETE MITER END ==== \blacksquare UNDERGROUND ELECTRIC LINE ---- ELEC ---- ELEC ----_ -20 ~ -__20___ CONTOURS OVERHEAD WIRE CURB INLET LIGHT POLE

F.F. = 20.00

~**~**

F.F.=20.00

_ —— -

PROPOSED

lack

DESCRIPTION

WATER WELL

POWER POLE

TV CABLE BOX

UNDERGROUND CABLE TV

EXTRA STRENGTH FILTER

FABRIC NEEDED WITHOU

WIRE MESH SUPPORT -

GUY WIRE

GAS MAIN

SILT FENCE SHALL BE

CONTOURS TO MAXIMIZE

STORM DRAIN PIPE

STORM MANHOLE

EXISTING

---- D----

-----®-----

S-1

PROPOSED

____O___

S-1

SWPPP TEMPLATE FOR MINIMUM BMP'S

EROSION CONTROL NOTES Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land disturbing activity and shall be made functional before up-slope land disturbance All sediment control measures are to be adjusted to meet field conditions at the time of construction and be constructed prior to any grading or disturbance of existing surface material on balance of site. Perimeter sediment barriers shall be constructed to prevent sediment or trash from flowing or floating on to adjacent properties. 3. Permanent or temporary soil stabilization shall be applied to denuded areas within seven (7) days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven (7) days to denuded greas that may not be at final grade but will remain undisturbed for longer than 30 days. Permanent stabilization shall be applied to areas that are to be left undisturbed for more than one year 4. During construction of the project, soil stock piles shall be stabilized, covered or contained with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as soil intentionally transported from the project site. A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized 6. After any significant rainfall, sediment control structures will be inspected for integrity. Any damaged devices shall be 7. Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent 8. Sediment will be prevented from entering any storm water system, ditch or channel. All storm water inlets that are made operable during construction shall be protected so that sediment—laden water cannot enter the conveyance system without first being filtered or otherwise treated to remove sediment. When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction 10. Periodic inspection and maintenance of all sediment control structures must be provided to ensure intended purpose is accomplished. The developer, owner and/or contractor shall be continually responsible for all sediment controls. Sediment control measures shall be in working condition at the end of each working day. Where construction vehicle access routes intersect paved public roads, provisions shall be made to minimize the transport of sediment by tracking onto the paved surface. Where sediment is transported onto a public road surface with curbs and gutters, the road shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner. This provision shall apply to individual subdivision lots as well as to larger land 12. All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed. 13. Properties and waterways downstream from construction sites shall be protected from sediment deposition and erosion Erosion control design and construction shall follow the requirements in index numbers 101, 102 and 103 of F.D.O.T. Roadway and Traffic Design Standards and county permits. 15. Contractor is responsible for all surface water discharges, rainfall run off or dewatering activities. 16. Contractor must incorporate all BMP's necessary to meet or exceed state water quality and SWPPP requirements. 17. The Pollution Prevention Plan is a minimum guideline only. Additional BMP's may be necessary at contractor's expense. 18. NOI to be posted on site. A - Discharge must not exceed state water quality standards. B — Contractor must have a transferable SJRWMD Consumptive Use permit known as a "Noticed General Permit

NDIAN RIVER

NOTE: ALL STOCKPILES SHALL BE A MAXIMUM OF 25' HIGH. SECTION A—A SILT FENCE STOCKPILE OF ERODIBLE MATERIAL NOTE: FOR STOCKPILING ERODIBLE MATERIAL FOR EXTENDED PERIODS, THE AREA SHALL BE SEEDED AND MULCHED.	EXISTING TREE TRUNK— DIAMETER VARIES ORANGE VINYL CONSTRUCTION FENCING, CHAIN LINK OR SNOW FENCING OR APPROVED EQUIVALENT NOTES: 1. ALL TREES RETAINED ON A SITE SHALL BE PROTECTIVELY BARRICADED BEFORE AND DURING CONSTRUCTION ACTIVITIES. 2. UNDERGROUND UTILITY LINES SHALL BE ROUTED AROUND EXISTING TREES TO THE OUTSIDE OF THE DRIPLINE EVISTING TREE TRUNK— METAL T-POSTS OR APPROVED ALTERNATIVE ORANGE VINYL CONSTRUCTION FENCING, CHAIN LINK FENCING, SNOW FENCING OR OTHER SMILLAR FENCING AT LEAST (4') HIGH AND SUPPORTED AT A MAXIMUM OF TEN-FOOT (10')	CONTOURS TO MAXIMIZE PONDING EFFICIENCY. 2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT. 3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF—SITE AND CAN BE PERMANENTLY STABILIZED. STEEL OR WOOD POST—36" HIGH MAX. (POSTS SHALL BE INSTALLED ON THE OPPOSITE SIDE OF THE DIRECTION OF FLOW) OF FLOW NOTE NOTE NOTE
SEDIMENT CONTROL DETAIL FOR STOCKPILING OF ERODIBLE MATERIAL—N.T.S. CROSS BRACE CROSS BRACE ORDER OF FRAME OF FRAME OF FRAME VIEW OF FRAME WITHOUT SILT FENCE SILT FENCE SILT FENCE SILT FENCE SILT FENCE INLET	WHERE ABLE. 3. INSTALLATION OF FENCES AND WALLS SHALL TAKE INTO CONSIDERATION THE ROOT SYSTEMS OF EXISTING TREES. 4. FENCE/BARRICADE SHALL BE INSTALLED AT PERIMETER OF ALL TRESS OR GROUP OF TREES TO BE PRESERVED. FENCE SHALL BE AMINTAINED DURING CONSTRUCTION. 5. DO NOT PARK HEAVY EQUIPMENT ON TREE ROOTS. DO NOT ADD FILL 4" TO 6" AROUND TREE. ALL WORK WITHIN THE CRZ MUST BE DONE BY HAND. PROTECTIVE FENCING FOR TREES—N.T.S.	1. THIS PLAN SHEET SHALL NOT BE CONSIDERED A SWPPP (STORMWATER POLLUTION PREVENTION PLAN) BUT IS A PLAN REPRESENTATIVE OF THE MINIMUM REQUIRED BMP'S (BEST MANAGEMENT PRACTICES). 2. THE SWPPP SHALL BE COMPLETED PRIOR TO THE SUBMITTAL OF THE NOTICE OF INTENT (NOI) TO BE COVERED UNDER THE DEPARTMENT'S GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. 3. THESE MINIMUM BMP'S SHALL APPLY TO WORK PERFORMED WITHIN BOTH PUBLIC AND PRIVATE RIGHTS—OF—WAY.

3 04/12/23 REV. FOR BIDDING REV. AA PER IRC BLDG CHANGE 02/07/23 1 02/07/23 DATE DESCRIPTION DR/APP REVISIONS

MASTELLER & MOLER, INC.

C — No hydraulic pumps may be used for dewatering unless approved By the water management district for

D - No turbid discharge. Turbidity readings are required once a week and must be reported to the project

20. Failure to develop and implement a certified stormwater pollution prevention plan shall be deemed a violation of the

permit and the permitee shall be subject to enforcement action. The plan shall be completed prior to the submittal of an

NOI (Notice of Intent) to be covered under the permit and updated as appropriate. The plan shall also provide for

compliance with the terms and schedule of the plan beginning with the iniation of the construction activities.

For Short Term Construction De-Watering".

CONSULTING ENGINEERS 1655 27th STREET, SUITE #2, VERO BEACH, FLORIDA, 32960 (772) 567-5300 / FAX (772) 794-1106

CERTIFICATE OF AUTHORIZATION NUMBER 4204

CONSTRUCTION NOTES / SWPPP NEW RESTROOM FACILITY FRAN B. ADAMS NO. CO. REGIONAL PARK

PROTECTION-N.T.S

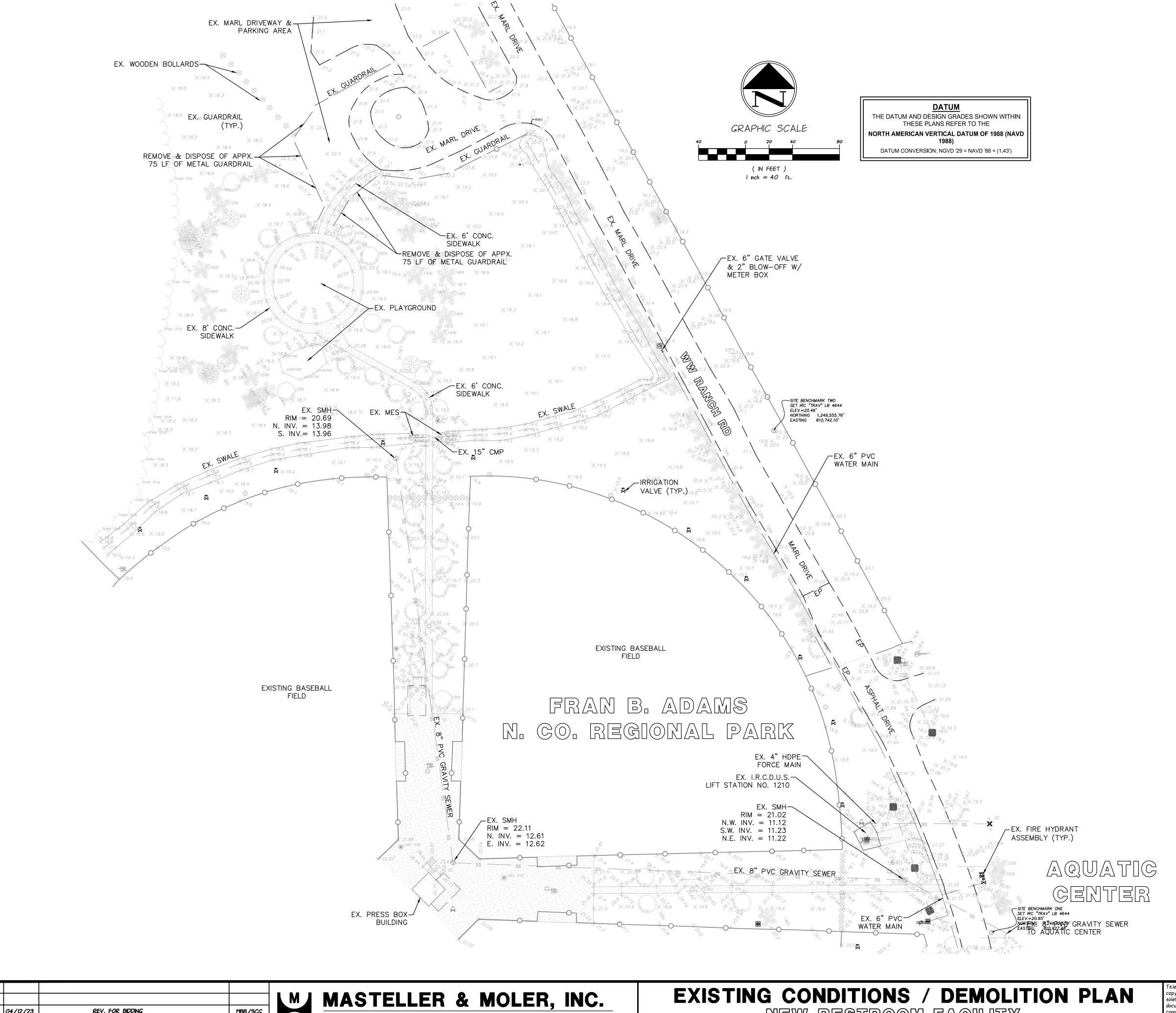
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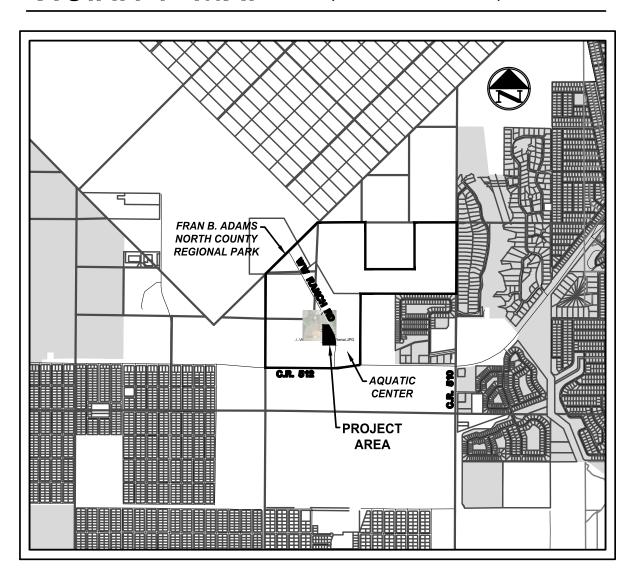
FOR BIDDING PURPOSES ONLY SCG SCG 9/10/20 N.T.S. ET 2 OF 11 SEAN C. GREEN, P.E. FL#90797 OJECT NO.: 20016



INDIAN RIVER

VICINITY MAP

(NOT TO SCALE)



GENERAL SITE DATA

APPLICANT
INDIAN RIVER COUNTY PARKS
& CONSERVATION SERVICES C/O KEVIN M. KIRWIN, CPRE 5500 77TH STREET VERO BEACH, FLORIDA 32967 Ph. (772) 226-1824

GENERAL STATEMENT

THIS PROJECT PROPOSES ADDING A PRE-FABRICATED RESTROOM BUILDING TO SERVICE THE EXISTING PLAYGROUND AREA NORTH OF THE EXISTING BASEBALL FIELDS AT THE FRAN B. ADAMS NORTH COUNTY REGIONAL PARK.

TAX PARCEL

TAX I.D. # 31-38-22-00000-1000-00001.0

SITE ADDRESS 9450 CR 512 SEBASTIAN, FLORIDA 32958

FIRM PANEL FLOOD ZONE: "AREA NOT INCLUDED" MAP NUMBER: 12061C0094j

DATED: JANUARY 26, 2023 ESTIMATED BASE FLOOD ELEVATION: *22.50' NGVD29' = 21.07' NAVD88'

*ESTIMATED BASE FLOOD ELEVATION PER SJRWMD ERP NO.

SCHEDULE

PROJECT COMMENCEMENT: July 2023
PROJECT COMPLETION: January 2024

UTILITY PROVIDERS

ENGINEER

<u>SURVEYOR</u>

MASTELLER & MOLER, INC. 1655 27TH STREET. SUITE 2

Ph. (772) 567-5300

Ph. (772) 564-8050

LEGAL DESCRIPTION

A/K/A STATE RD 512

VERO BEACH , FLORIDA 32960

MASTELLER, MOLER & TAYLOR INC.

NE 1/4 OF NE 1/4, N 1/2 OF NE 1/4

OF NW 1/4, S 1/2 OF NW 1/4 &

LOT 1 & N 1/2 OF SW 1/4 LESS GULF & WESTERN INDUSTRIES INC. &

FELLSMERE-SEBASTIAN HW R/W

1655 27TH STREET. SUITE 2

VERO BEACH , FLORIDA 32960

POTABLE WATER IRCDUS WASTEWATER

*EXISTING UTILITIY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY IRCDUS

3	04/12/23	REV. FOR BIDDING	MBB/SCG
2	02/07/23	REV. AA PER IRC BLDG CHANGE 02/07/23	MBB/SCG
1	09/16/21	REV. PER IRC COMMENTS 08/30/21	SG/EHM
NO.	DATE	DESCRIPTION	DR/APP
		REVISIONS	

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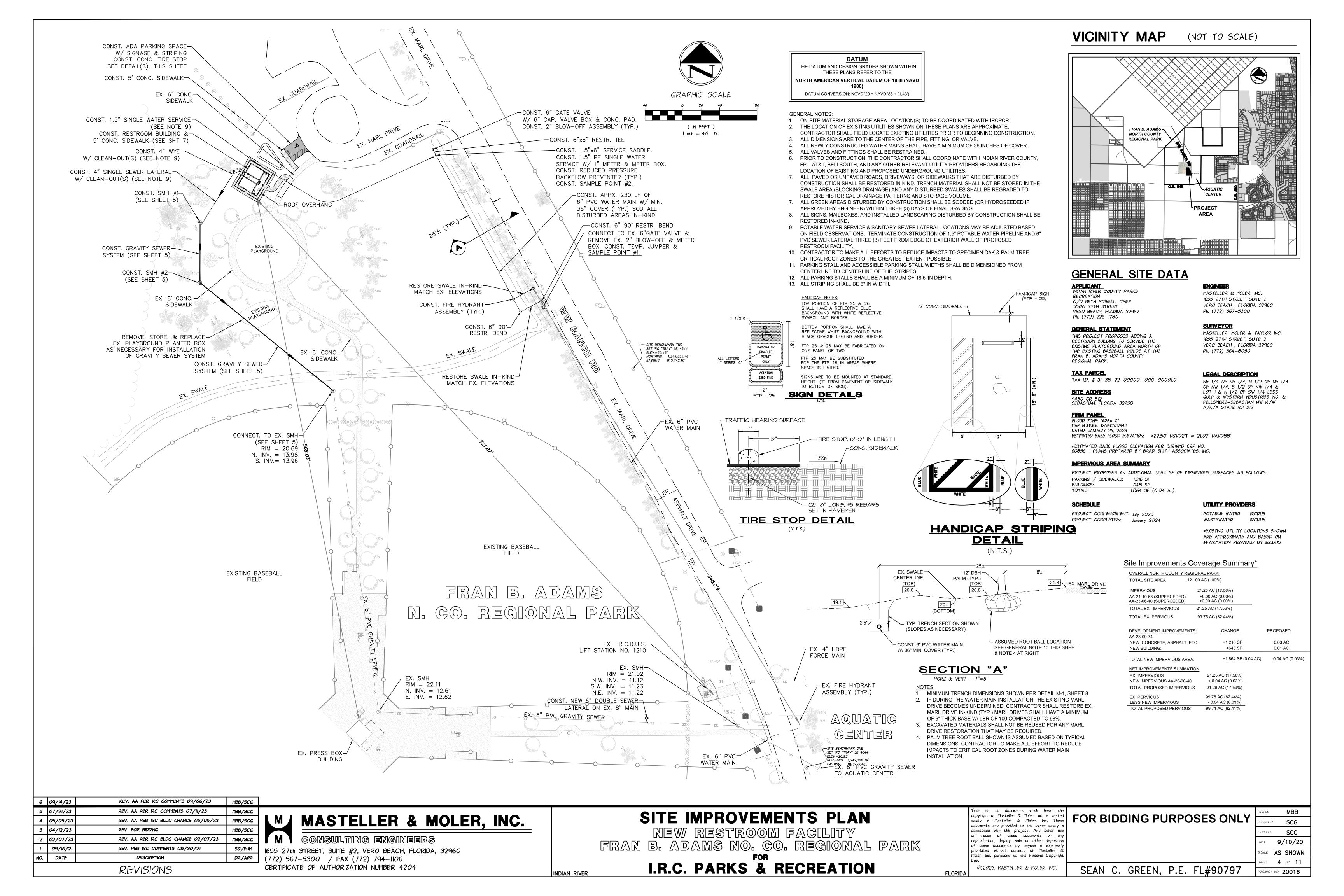
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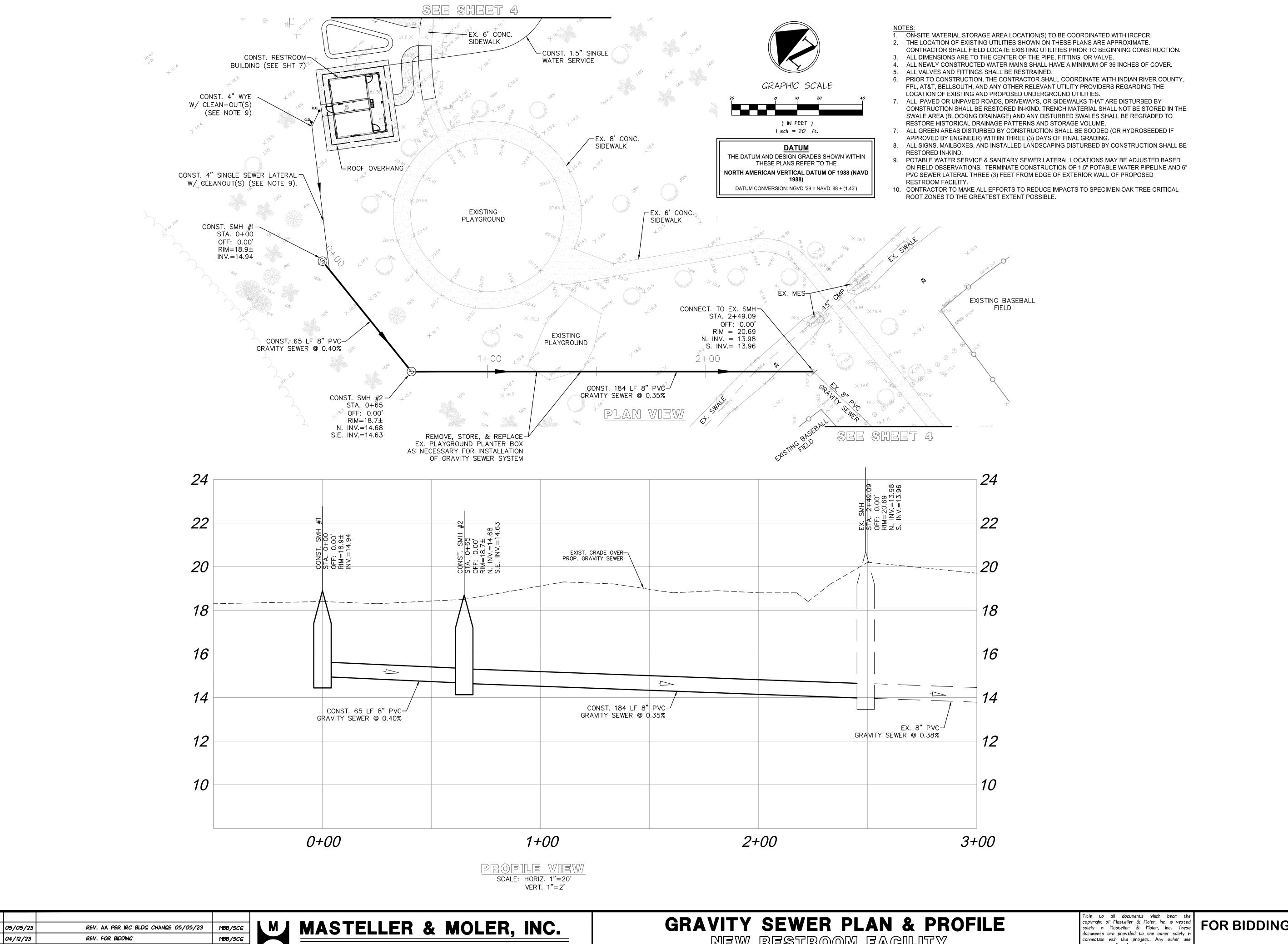
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OJECT NO.: 20016





INDIAN RIVER

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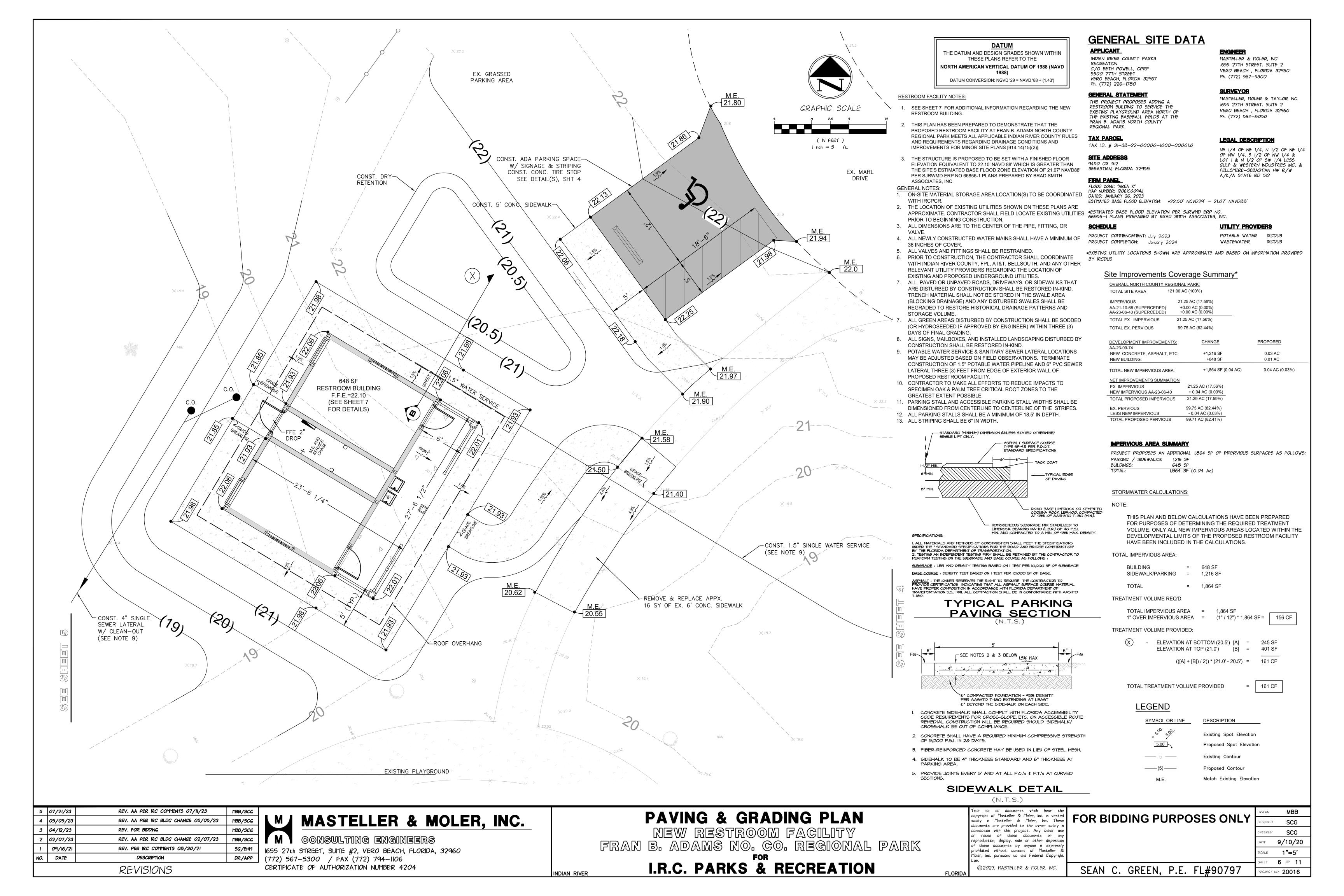
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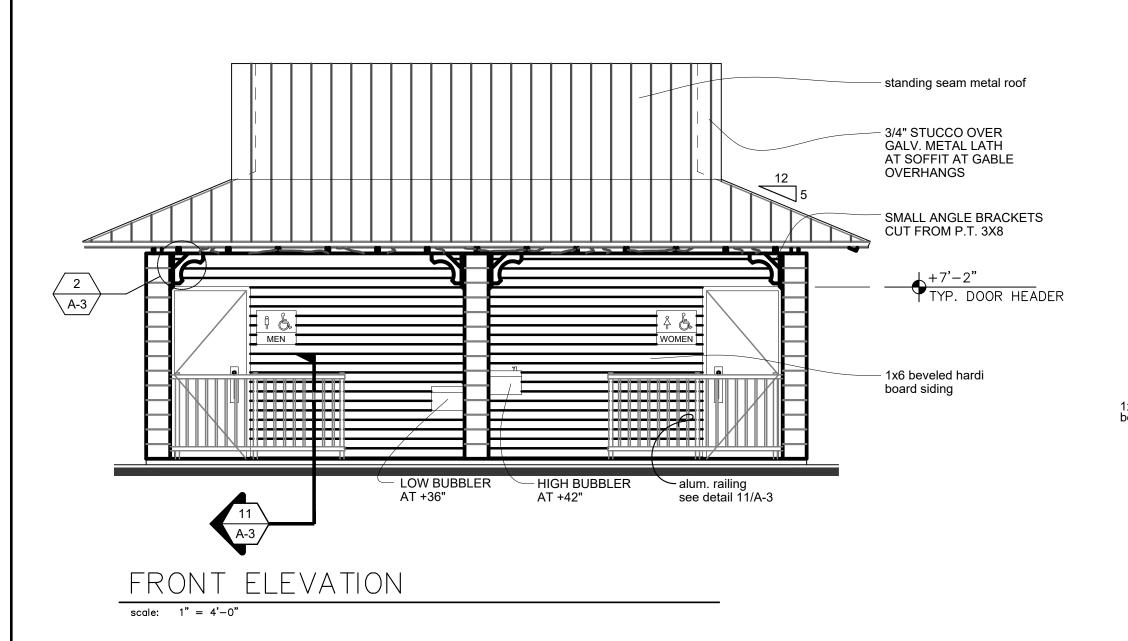
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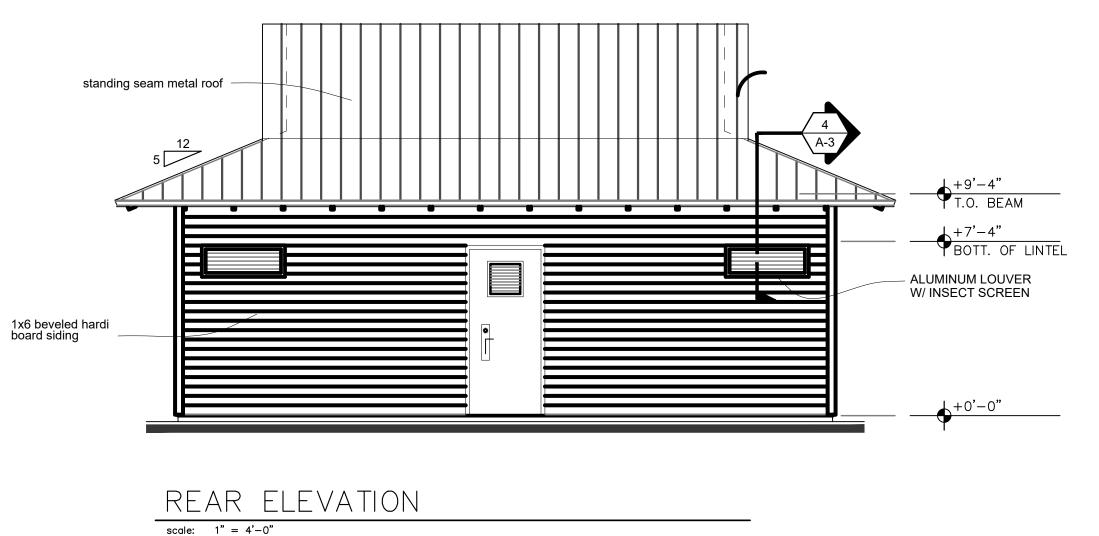
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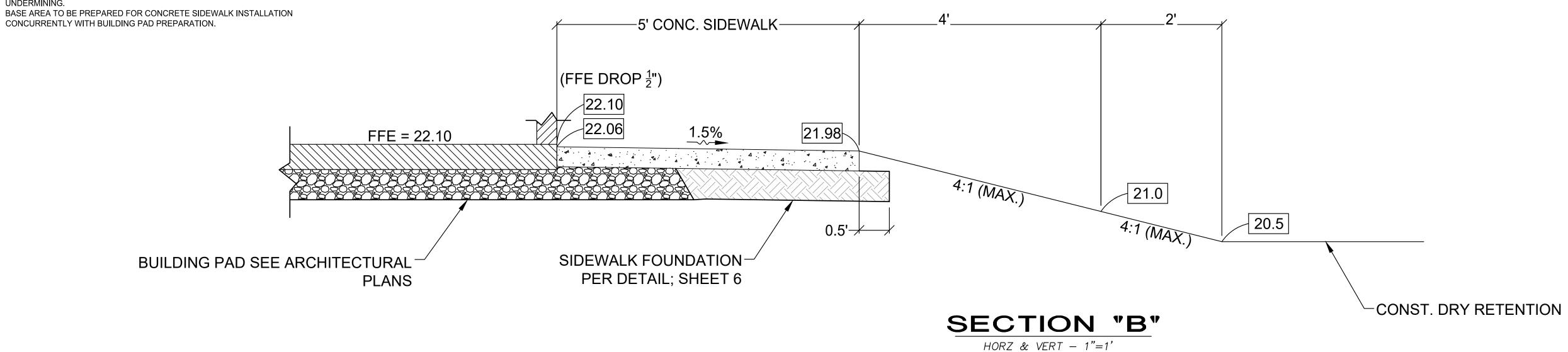
BUILDING TO BE PROVIDED BY OWNER. INSTALLATION OF BUILDING,

UNDERGROUND UTILITIES, BUILDING PAD, ETC. TO BE PROVIDED BY CONTRACTOR PURPOSES ONLY. REFERENCE BUILDING PLANS FOR SPECIFIC INFORMATION.

AND COMPACTION OF BASE MATERIAL. SEE BUILDING PLANS FOR UNDERGROUND UTILITIES PLANS. WATER SERVICE AND SEWER CLEAN-OUT LOCATIONS SHOWN ON THE SITE PLANS MAY BE ADJUSTED BASED ON FIELD OBSERVATIONS AND COORDINATION WITH BUILDING SUPPLIER.

4. BASE MATERIAL MUST BE CONFINED TO PREVENT WASHOUT EROSION OF

5. BASE AREA TO BE PREPARED FOR CONCRETE SIDEWALK INSTALLATION



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- 1	1 09/16/21 REV. PER IRC COMMENTS 08/30/21		SG/EHM
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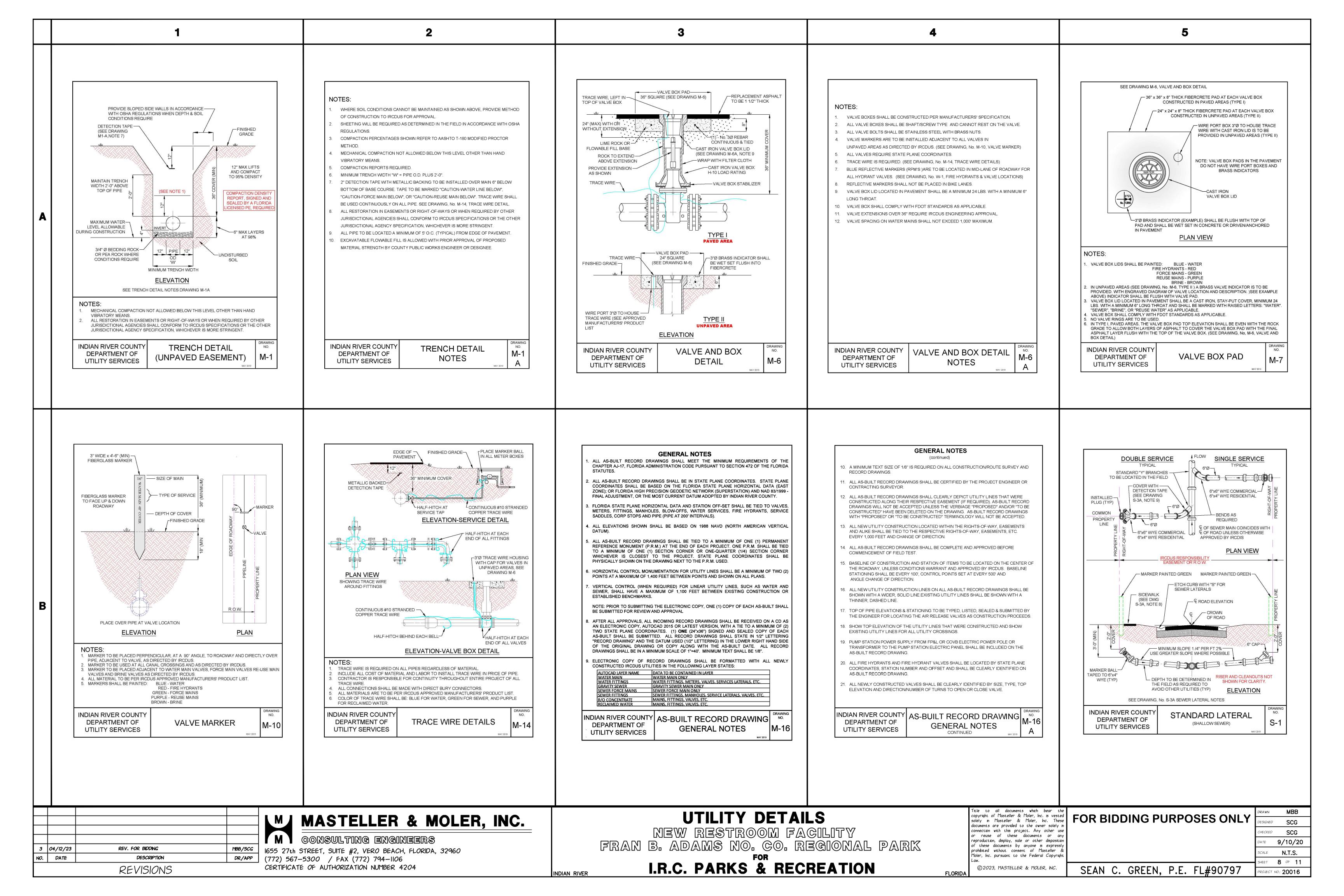
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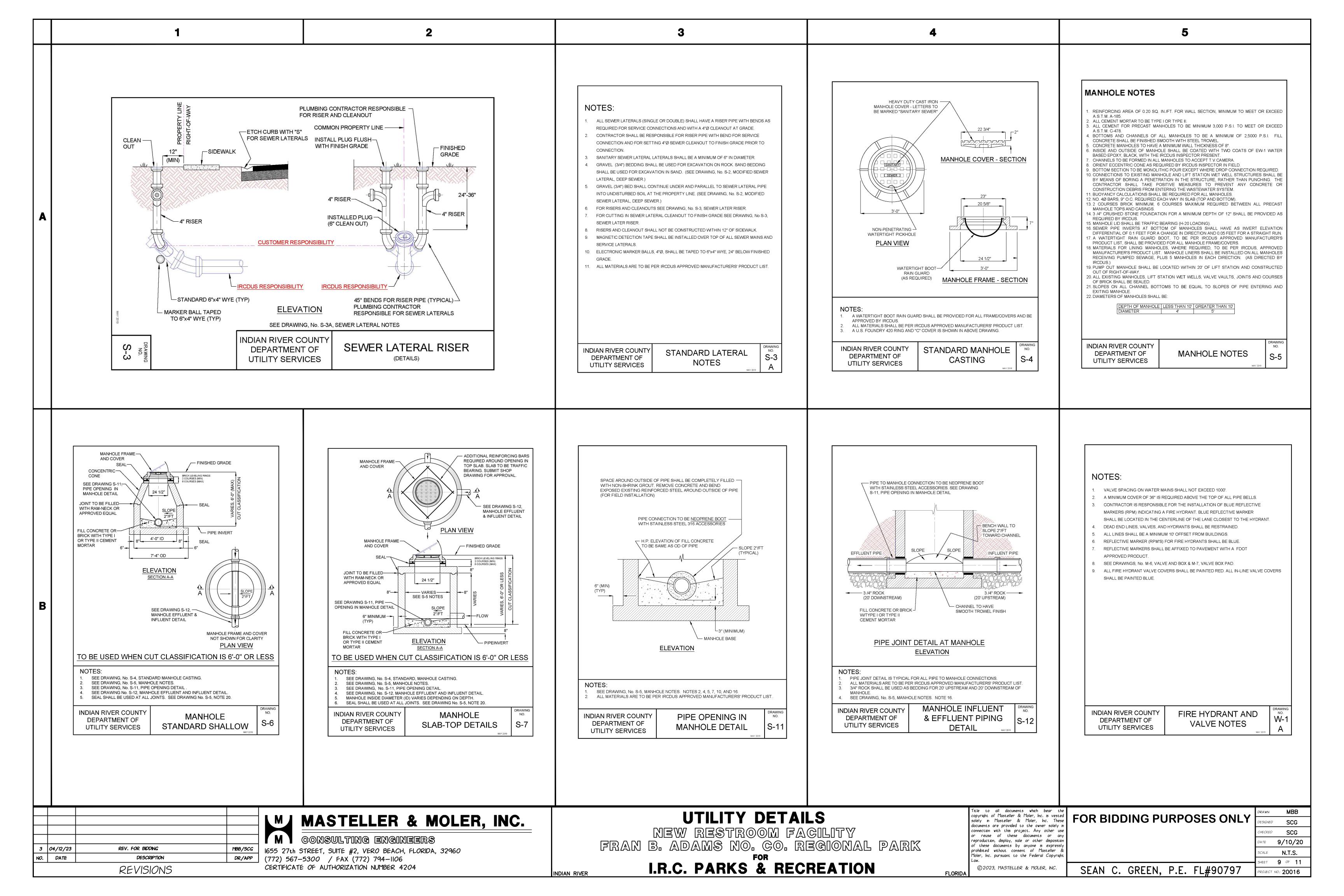
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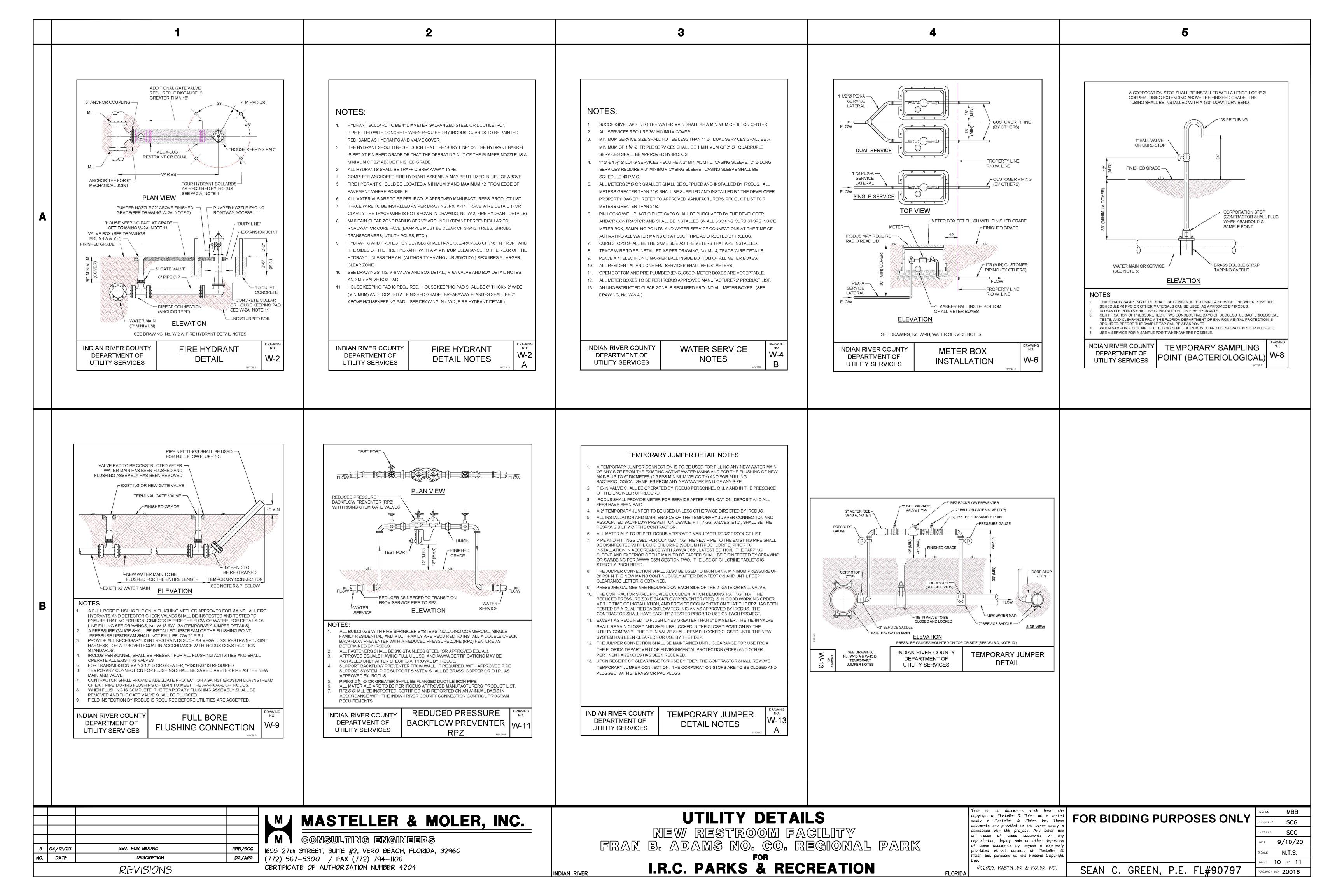
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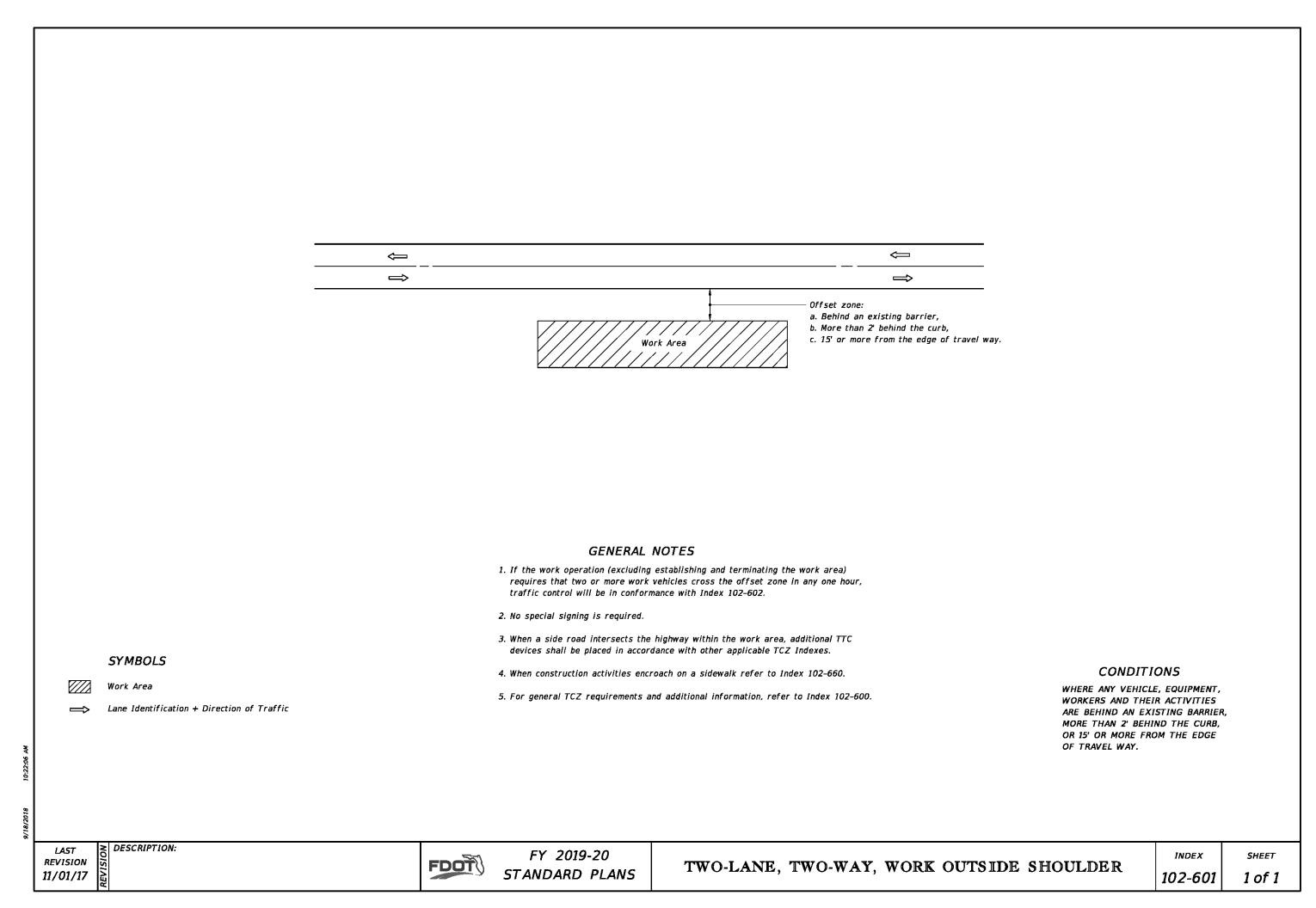
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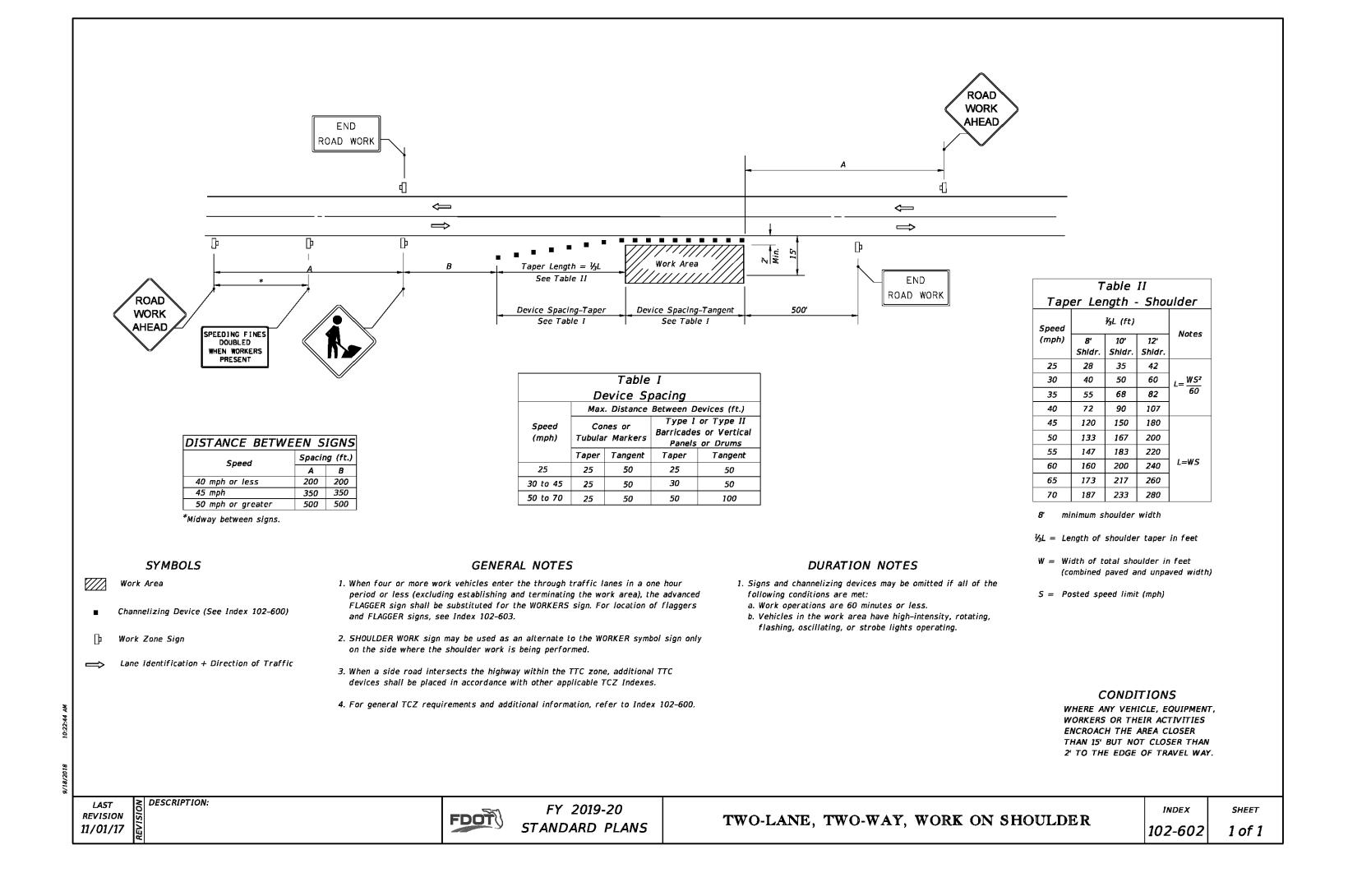
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MAINTENANCE OF TRAFFIC NOTES

1. THE CONTRACTOR SHALL INSTALL STAND MOUNTED ADVANCE CONSTRUCTION SIGNING IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX 102-602 FOR ANY WORK LESS THAN 15 FEET FROM THE EDGE OF PAVEMENT.

2. THERE SHALL BE NO EXCAVATIONS LEFT OPEN WHEN WORK IS NOT ACTIVELY BEING PERFORMED.

3. TRAFFIC SHALL BE RESTRICTED TO A SINGLE LANE WHEN ANY WORK ENCROACHES THE AREA BETWEEN THE CENTERLINE AND 2 FEET OUTSIDE THE EDGE OF PAVEMENT. ONE—LANE CLOSURES SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX 102—603. INDIAN RIVER COUNTY PUBLIC WORKS SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY LANE CLOSINGS.

4. ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED A MINIMUM OF 15 FEET FROM THE EDGE OF PAVEMENT AND SHALL BE PROTECTED BY TYPE II BARRICADES WITH FLASHING LIGHTS

5. CONSTRUCTION FENCING USED IN THE WORK AREA TO PROTECT EQUIPMENT OR EXCAVATIONS SHALL NOT BLOCK SIGHT DISTANCE NEAR INTERSECTIONS OR DRIVEWAYS.

6. ACCESS TO PROPERTY OWNERS AS WELL AS EMERGENCY ACCESS SHALL BE MAINTAINED AT ALL TIMES.

7. THIS PLAN IS INTENDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO SUBMIT A MAINTENANCE OF TRAFFIC PLAN TO IRC ENGINEERING FOR REVIEW AND ACCEPTANCE PRIOR TO COMMENCEMENT OF CONSTRUCTION. MOT PLAN SHALL COMPLY WITH THE FDOT DESIGN STANDARDS INDEX 102-600 SERIES AND THE MUTCD, LATEST EDITIONS. SHOULD THE CONTRACTOR CHOOSE TO CONSTRUCT THE ROAD CROSSING(S) UTILIZING METHODS WHICH WOULD REQUIRE 8TH STREET TO BE CLOSED TO THRU TRAFFIC, THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A TEMPORARY TRAFFIC CONTROL PLAN TO IRC ENGINEERING FOR REVIEW AND ACCEPTANCE MINIMUM SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF

3	04/12/23	REV. FOR BIDDING	MBB/SCG
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INDIAN RIVER

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CERTIFICATE OF AUTHORIZATION NUMBER 4204

TEMPORARY TRAFFIC CONTROL PLAN

NEW RESTROOM FACILITY
FRAN B. ADAMS NO. CO. REGIONAL PARK

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IRC Fran B. Adams Park Restroom

9450 CR 512 Sebastian, FL 32958

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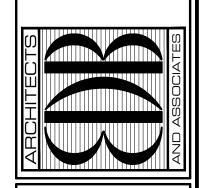
ARCHITECT



CHITECTS AND ASSOCIATES, P.A.

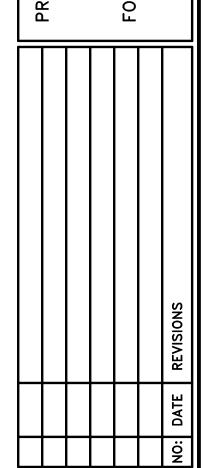
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BEACH, FLORIDA 32960



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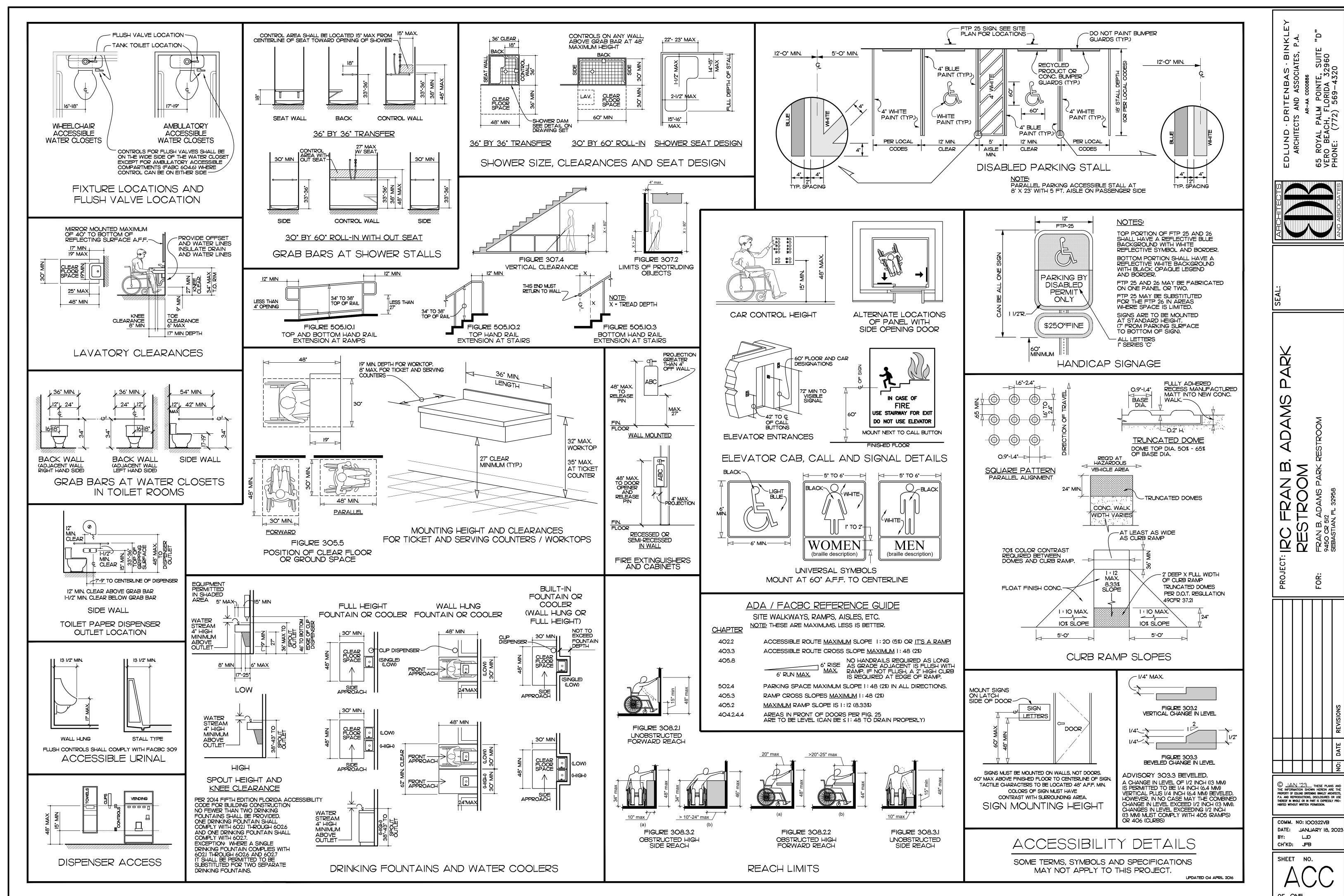
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PAN B. ADAMS PARK RESTROOM

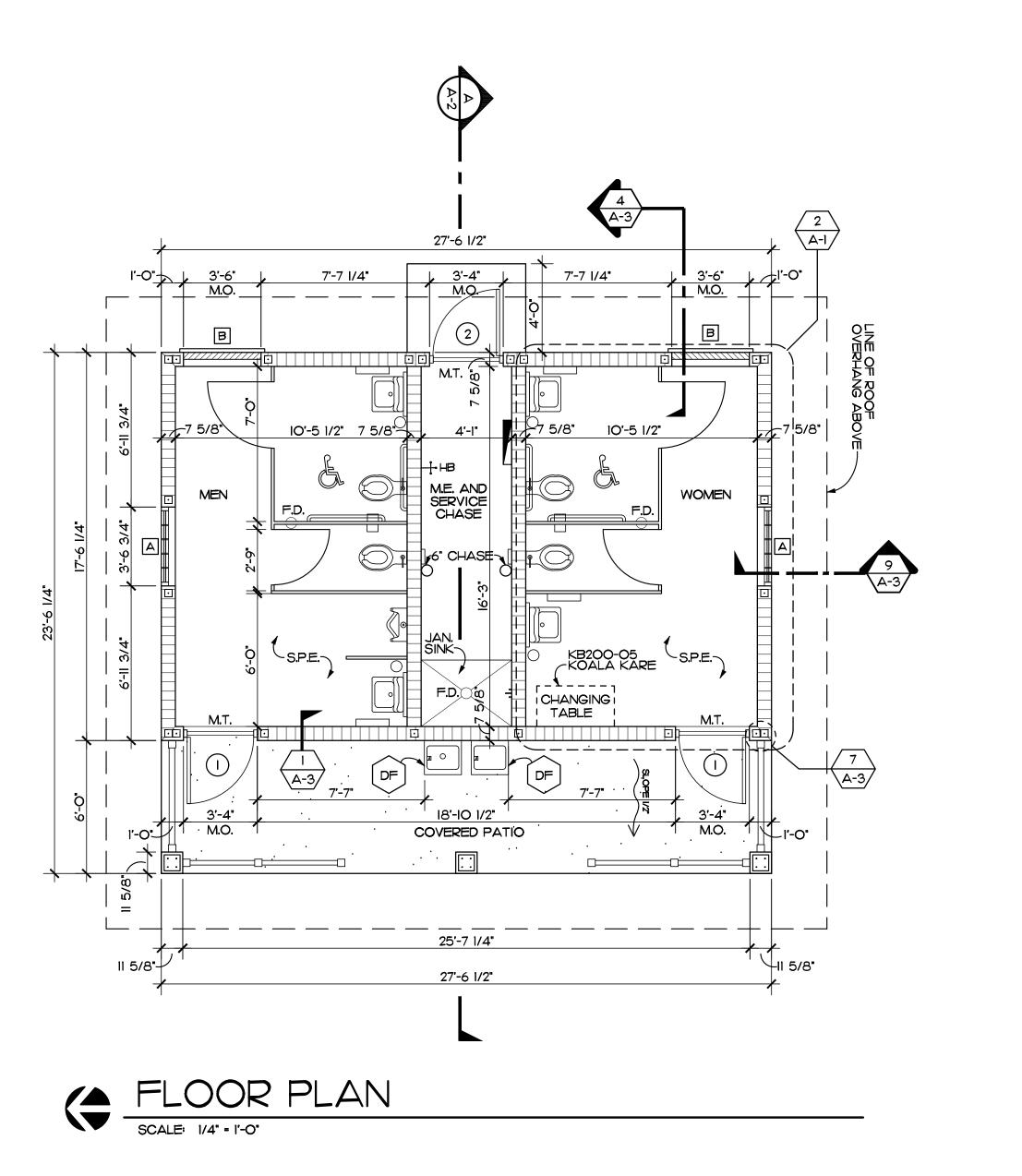


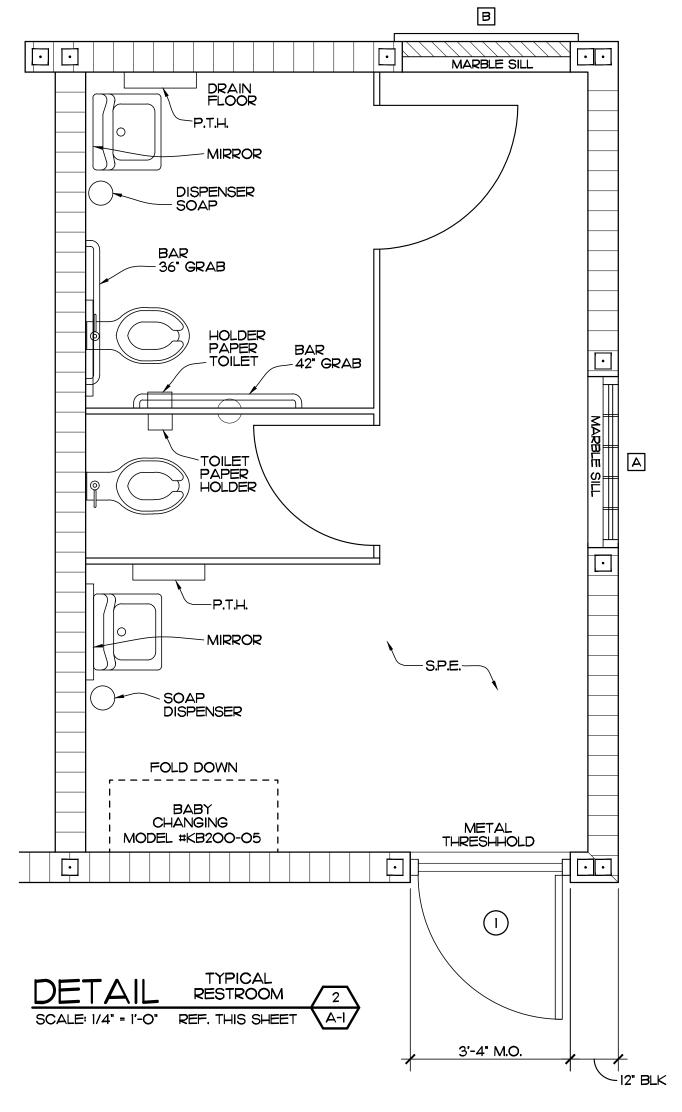
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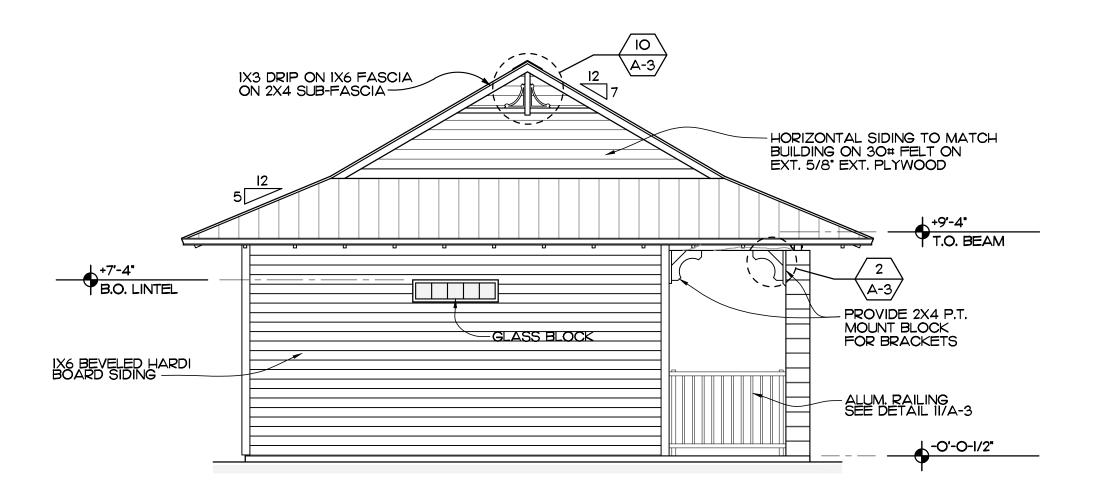
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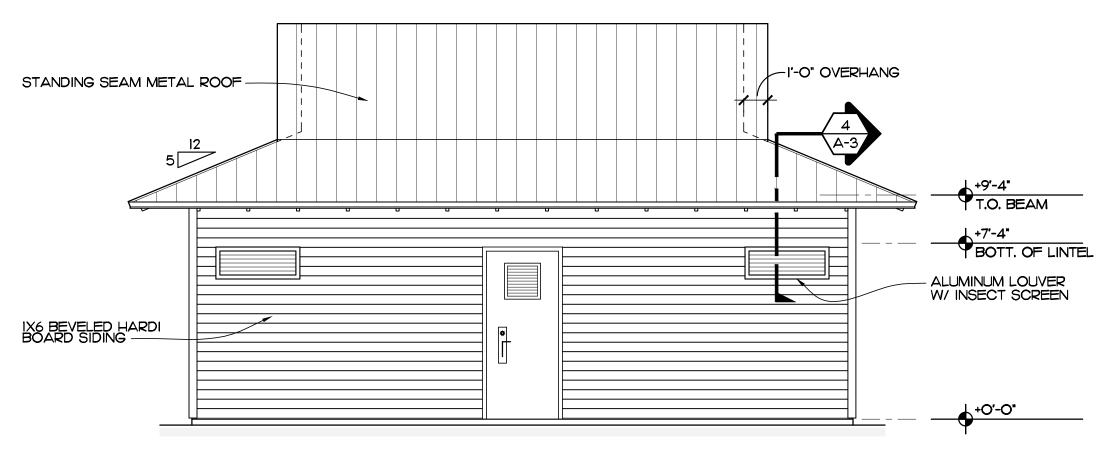






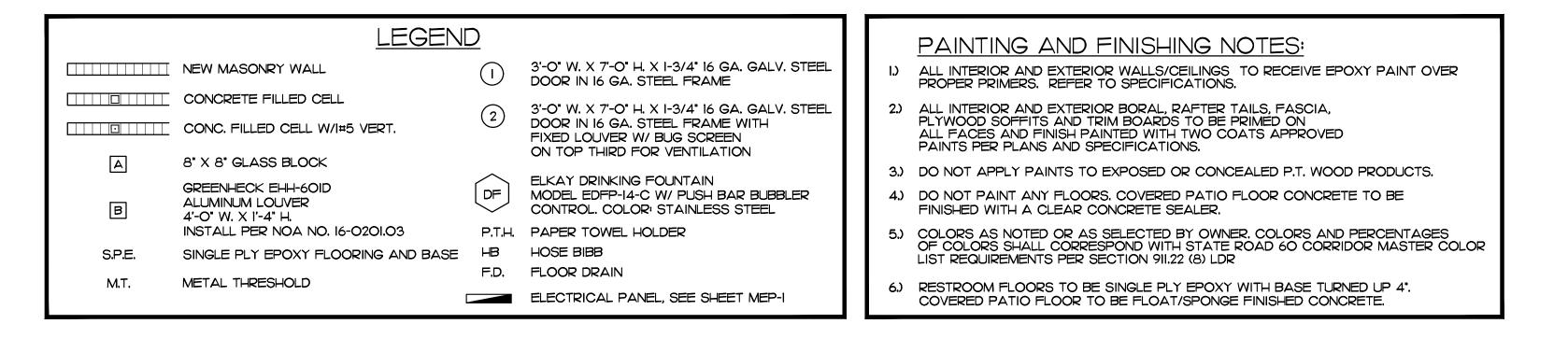


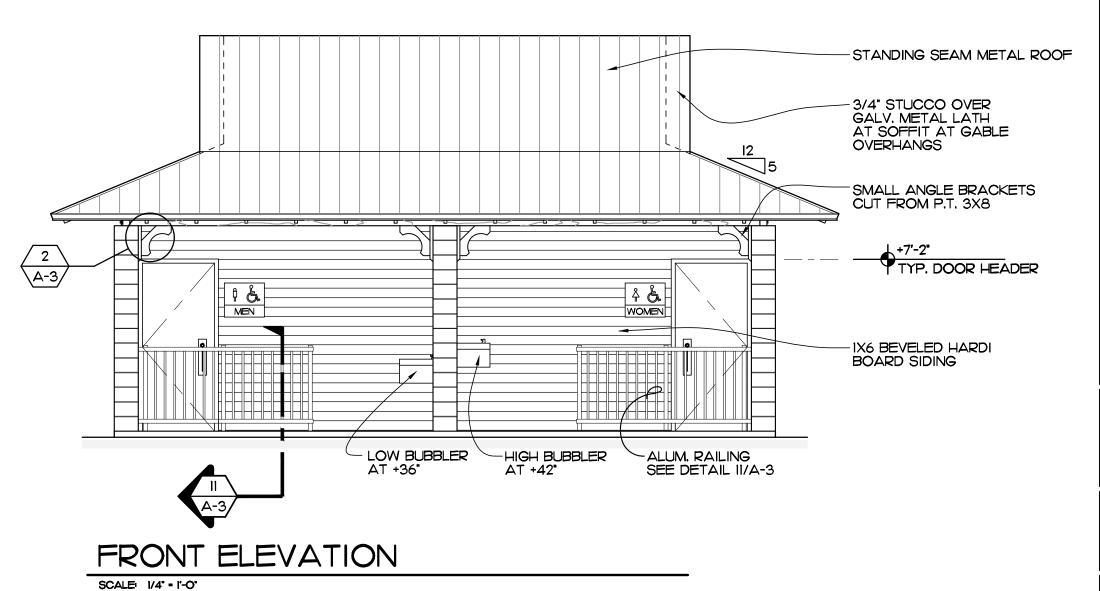
LEFT SIDE ELEVATION (RIGHT SIDE SIMILAR) SCALE: 1/4" = 1'-0"

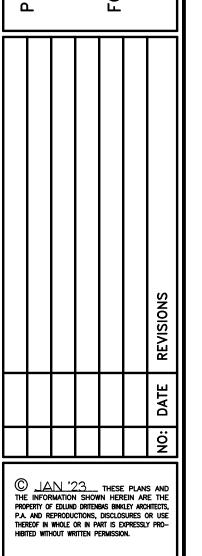




SCALE: 1/4" = 1'-0"



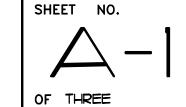


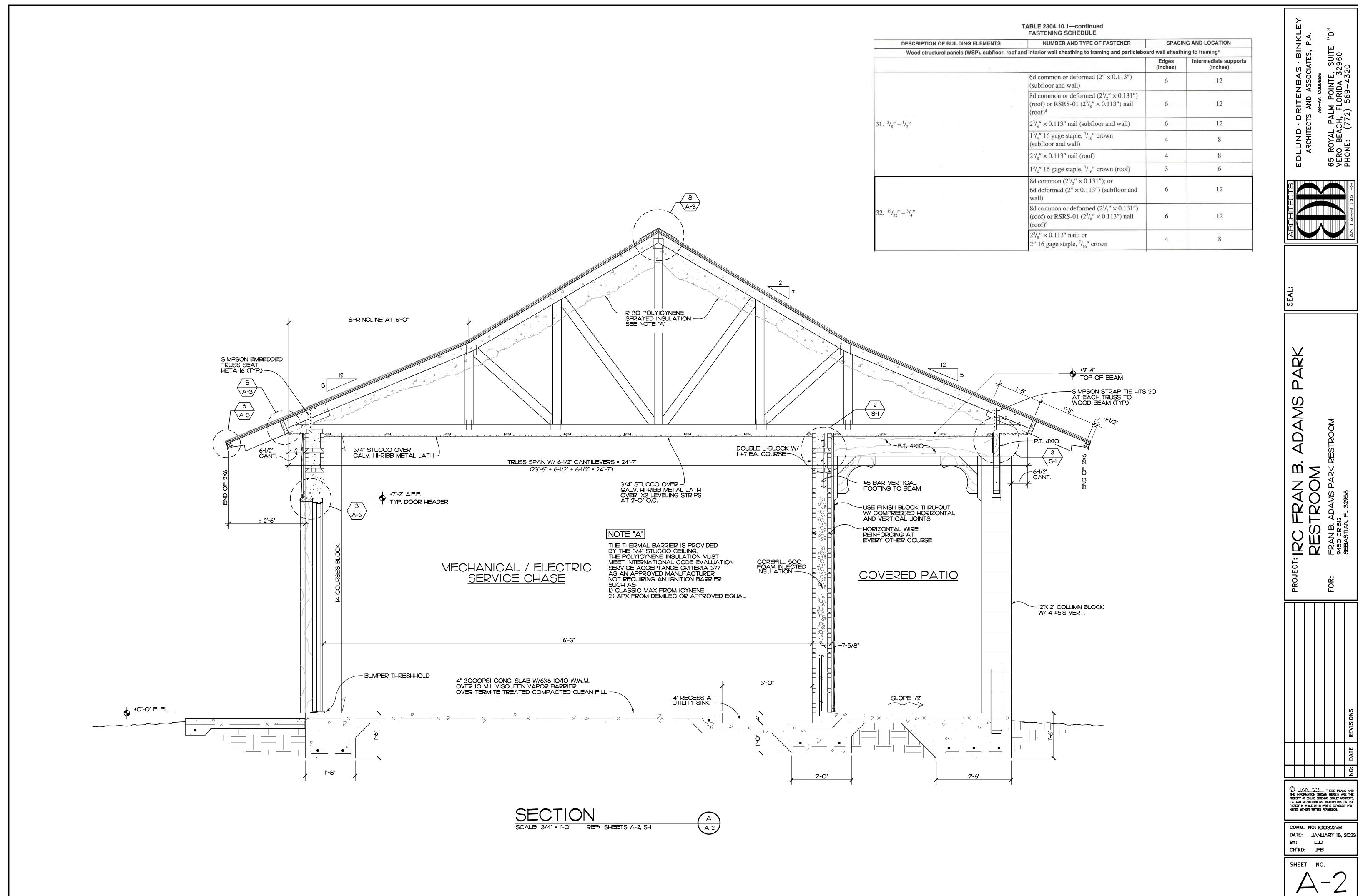


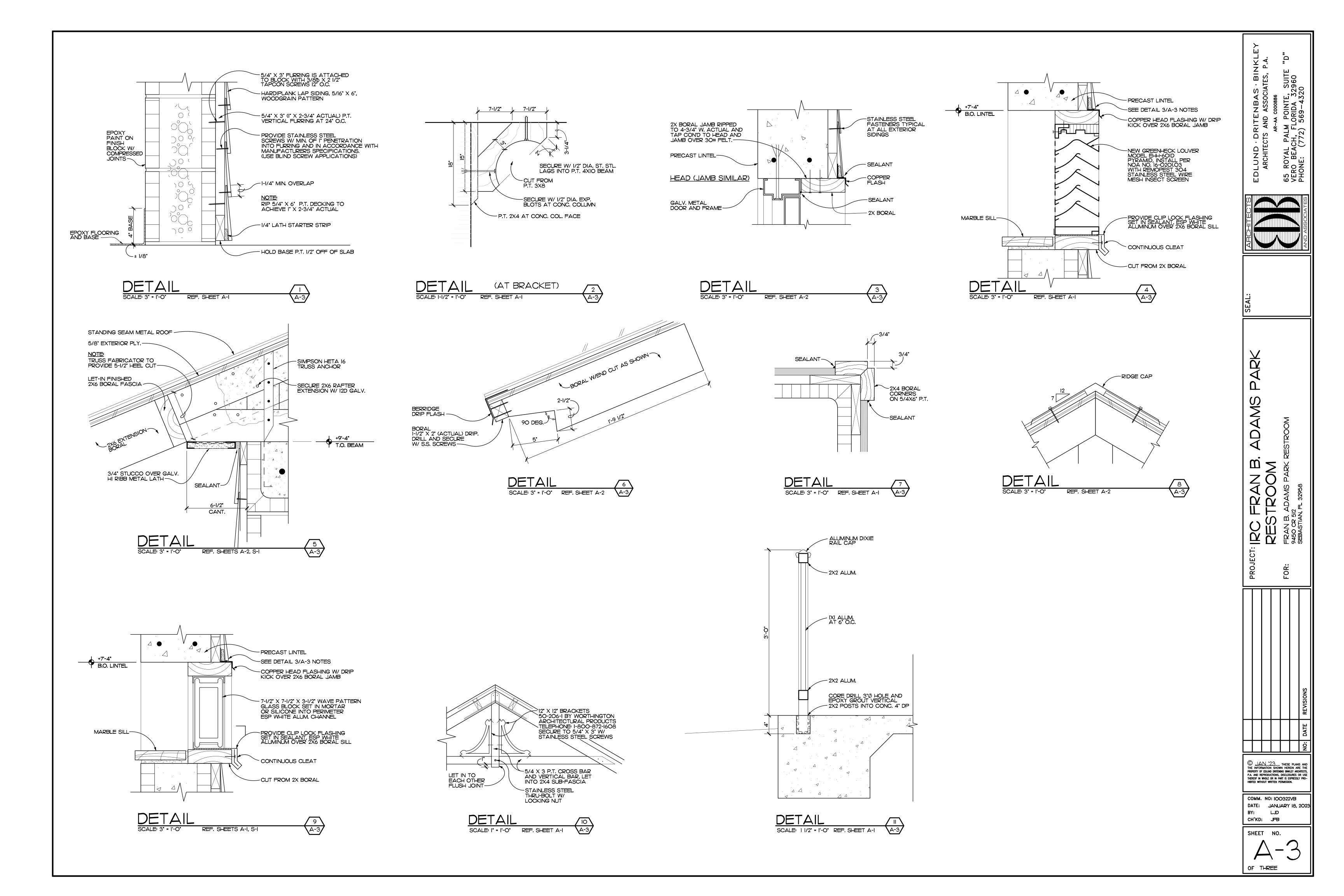
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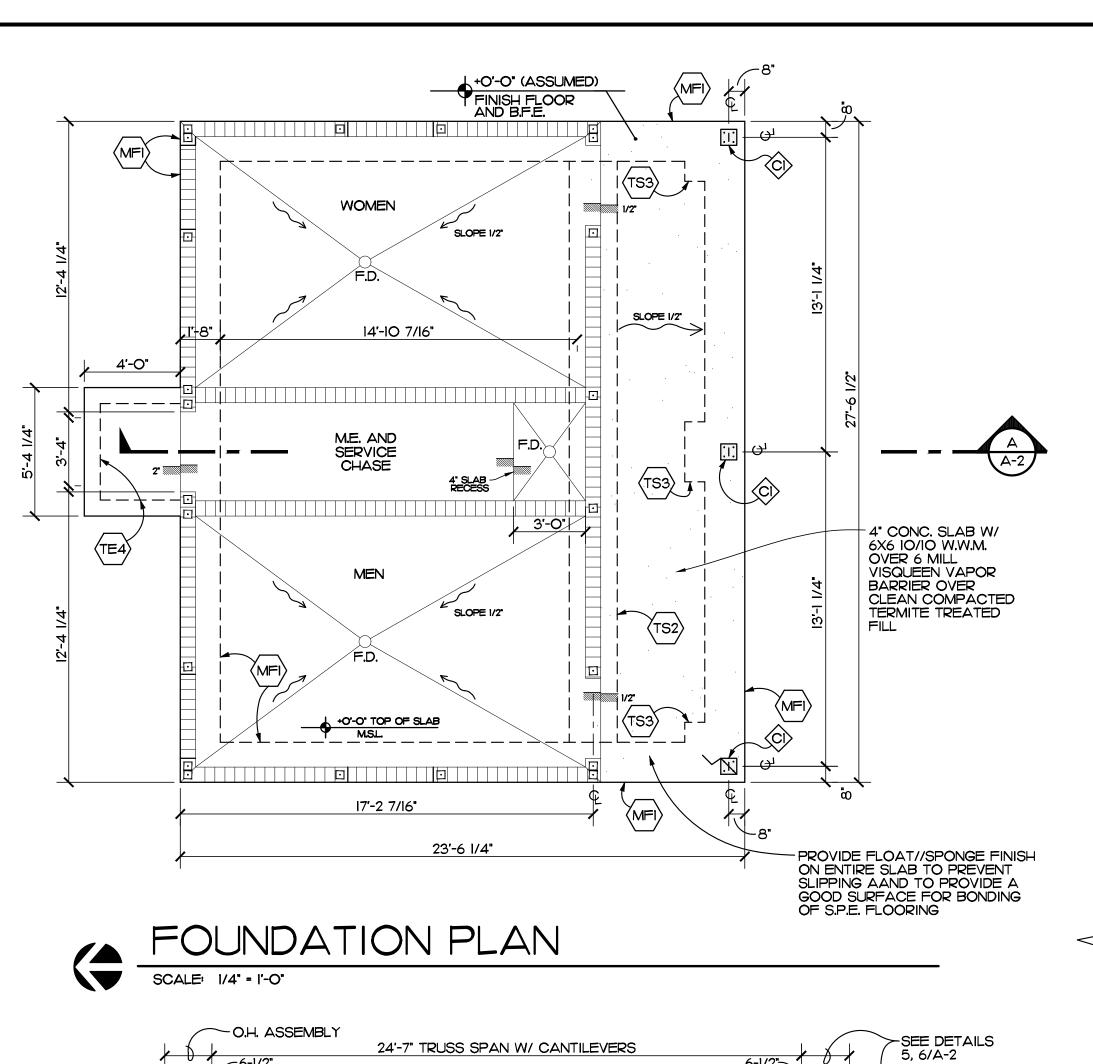
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COMM. NO: 100322VB DATE: JANUARY 18, 2023 BY: LJD CH'KD: JFB









1'-5 3/8".

~1'-0" OVERHANG

-1'-0" OVERHANG

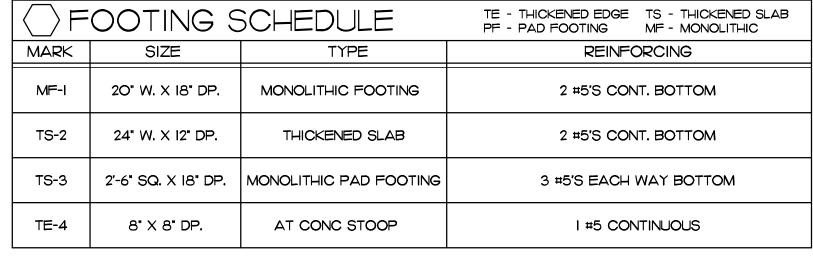
PRE-ENGINEERED TRUSSES AT 24" O.C.-

HIP GIRDER

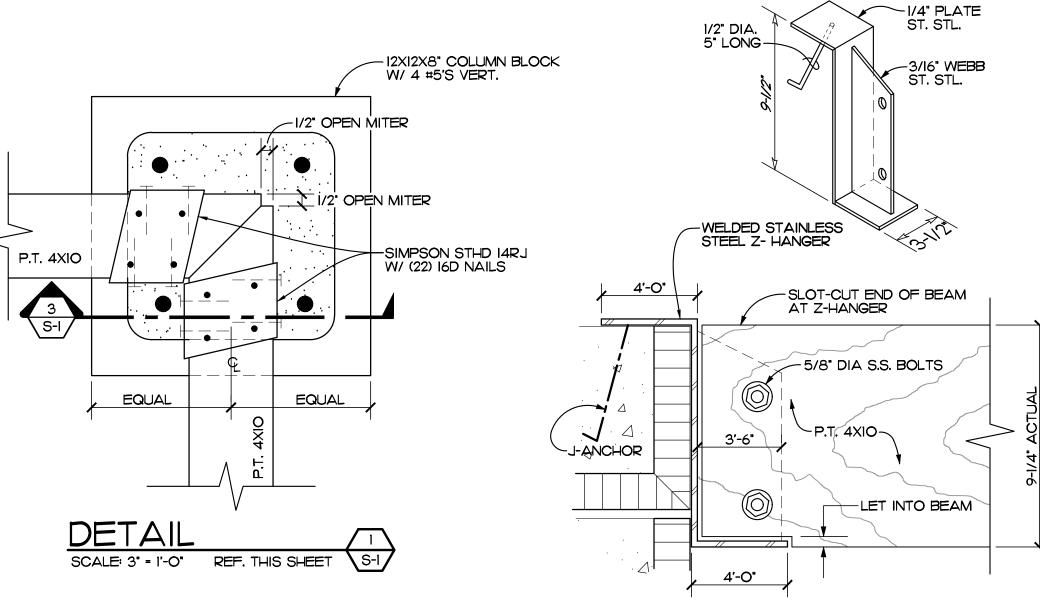
HIP GIRDER

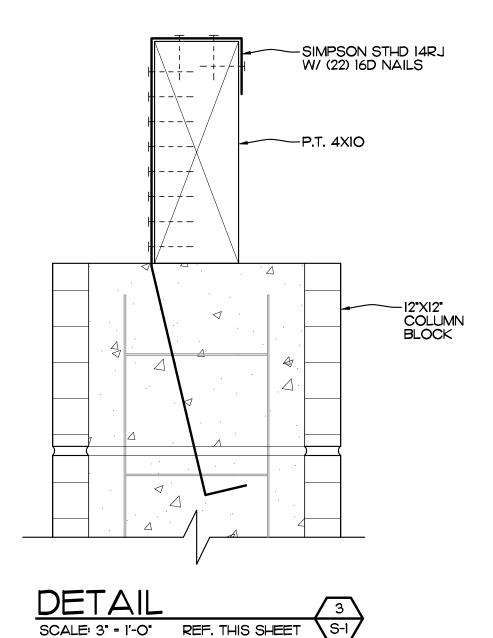
TRUSS MANUFACTURER TO PROVIDE 5-1/2" HEEL CUTS ON ALL TRUSSES PER DETAIL 5/A-2

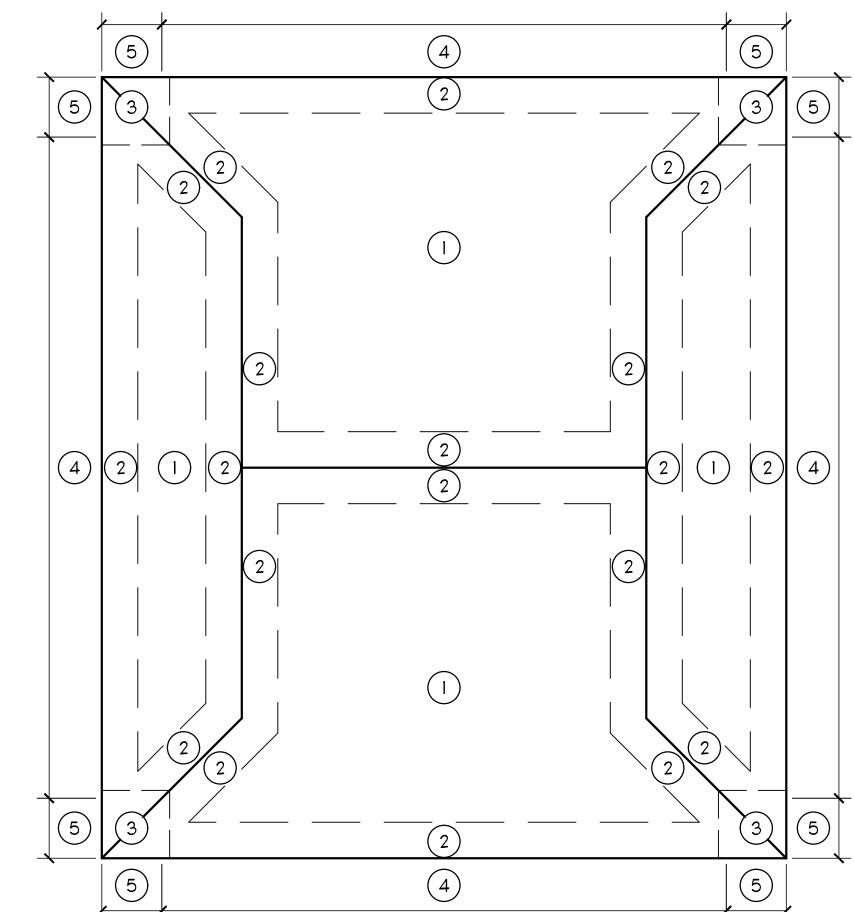
-CORNER SCALLOPED
RAFTER END APPLIED TO BOTH
FACES OF CORNER JACK. IN OTHER
WORDS, DOUBLED AT I-1/2" APART.



<u></u>	COLUM	N SCHEDULE	
MARK	SIZE	VERTICAL REINFORCING OR CAP PL AND BOLTS	COLUMN TIES OR BASE P. AND ANCHOR BOLTS
C-I	12" X 12"	4 #6'S VERT.	#3 TIES AT 8" O.C. VERTICAL







WIND PRESSURE ZONE DIAGRAM SCALE: NTS

DESIGN CRITERIA

FLORIDA BUILDING CODE, 7TH EDITION (2020) BUILDING

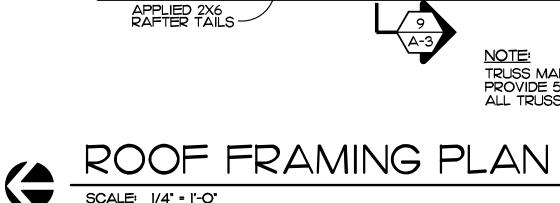
ROOF LOADS DEAD	20 PSF (METAL ROOF)
LIVE	
TRUSS TOP CHORD	20 PSF
TRUSS BOTTOM CHORD / STORAGE	20 PSF
TRUSS BOTTOM CHORD W/O STORAGE	IO PSF
WIND LOADS	
DESIGN CRITERIA PER ASCE-7	
ULTIMATE WIND SPEED REGION, V(ULT)	170 MPH
NOMINAL WIND SPEED REGION, V(ASD)	132 MPH
WIND BORNE DEBRIS REGION	
ENCLOSED STRUCTURE	
BUILDING HEIGHT	< 20 FT.
ROOF PITCH	7/12
RISK CATEGORY	III
INTERNAL PRESSURE COEFFICIENT	±0.18
EXPOSURE	С
HEIGHT AND EXPOSURE COEFFEICIENT	1.29

	N	MIMC	AL CON	1PONEN	IT AND	CLADD	ING PRE	ESSURE	S PSF	(ASD)
	70			E	FFECT	IVE AR	EA (IN	SQ. FT	`.)	
	۷(ONE	0 <	: 10	11 <	20	21 <	50	51 <	100
	_	1	+23	-37	+21	-36	+19	-35	+15	-34
		2	+23	-64	+21	-59	+19	-52	+15	-47
[ן אבו	3	+23	-95	+21	-89	+19	-81	+15	-75
	WALL	4	+40	-44	+39	-42	+36	-40	+34	-38
	⋛	5	+40	-54	+39	-50	+36	-46	+34	-42
Ī	SOFFIT	4	-2	14	-2	12	-4	Ю	-3	38
5	<u>ģ</u> [5	-5	54	-5	50	-2	1 6	-2	1 2

NOTES:

I.) END ZONE 5 IS WITHIN A DISTANCE (A) = 6'-6" FROM BUILDING CORNERS 2.) THE PROPOSED STRUCTURE IS LOCATED WITHIN A WINDBORNE DEBRIS AREA.

WOOL	O TRUSS CONNE	ECTOR SCHEDULE			
MARK	CONNECTORS	FASTENERS	ALLOWABLE UPLIFT	MAX. CALC. UPLIFT	REMARKS
(A)	HETA 16	(9) IOD X I-I/2"	1810 LBS	580 LBS	TYPICAL TRUSS TO C.M.U. UNLESS NOTED OTHERWISE
B	HTS 20	(24) IOD X 1-1/2"	1450 LBS	580 LBS	
\Diamond	(2) HETA 16	(18) IO D X 1-1/2" NAILS	3620 LBS	770 LBS	
♦	(2) HTS 2O	(2) 24 I6D X I-I/2"	2900 LBS	770 LBS	
E	(2) STHD 14FJ	(2) 22 I6D X I-1/2"	2 X 3695 LBS	2900 LBS	



PRECAST LINTELS ON ALL DOORS GLASS BLOCK, AND

9 A-3 SIMILAR

ALUM. LOUVERS-

DETAIL

SCALE: 3" = I'-O" REF. THIS SHEET

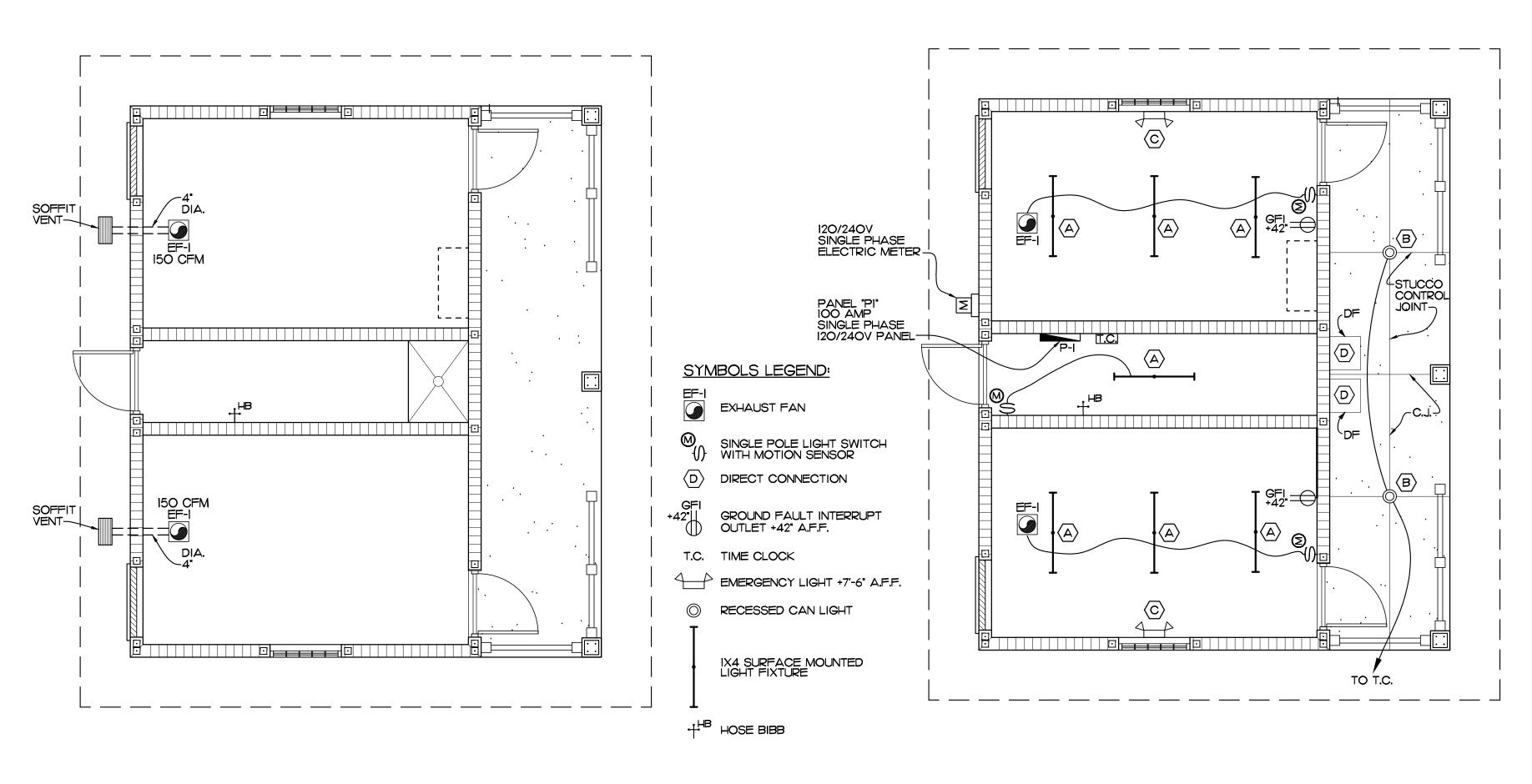
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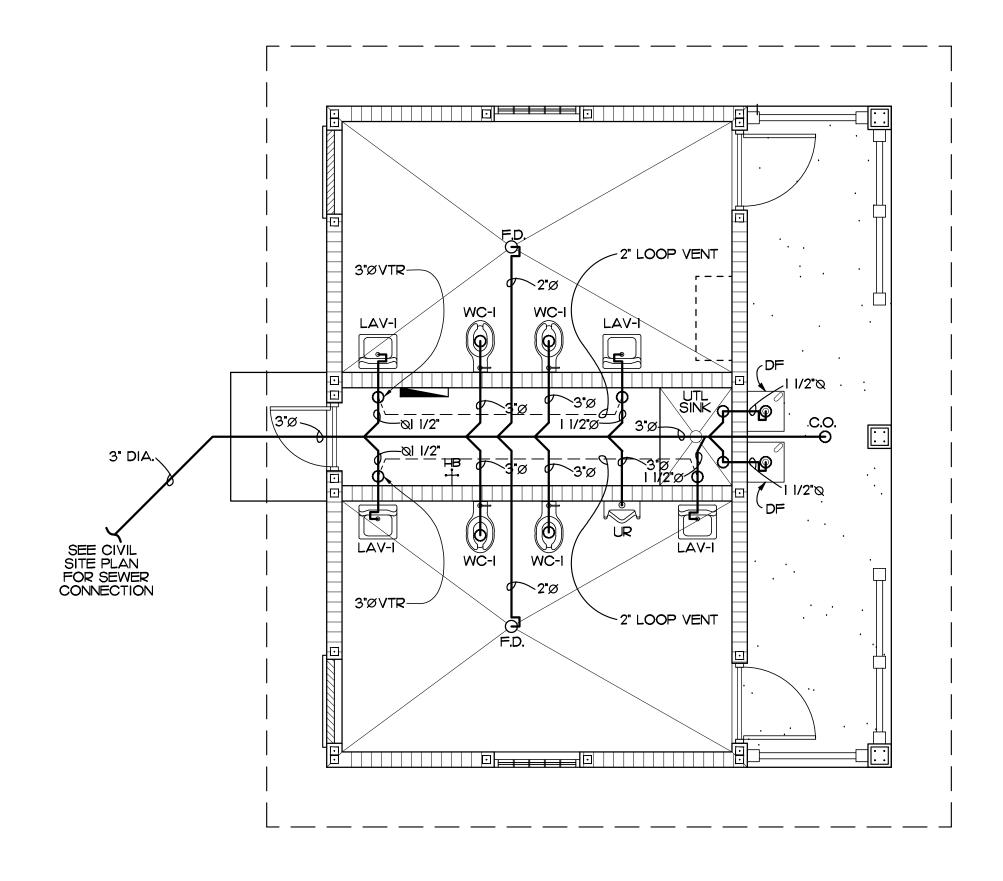
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COMM. NO: IOO322VB DATE: JANUARY 18, 2023 BY: LJD CH'KD: JFB

SHEET NO.





MECHANICAL PLAN

SCALE: 1/4" = 1'-0"

EF-I 150 CFM EXHAUST FAN - NUTONE OR EQUAL

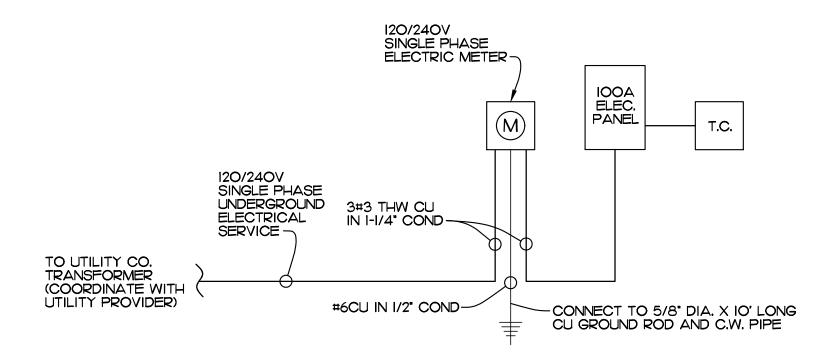
PANEL:					12O/24OV 1Φ LOCATION: SERVICE CHASE					AKER A OKA G: CE-NEN M:	1A 3R	ING:			RATING: IOOA MAIN CONNECTION: M.C.B. DEVICE FAMILY:
	- Hun			CON	VECTED	KVA				ANSFO				111111	SIEMENS/SQUARE D
"PI"	WIRE	Ω <u>₩</u> ⊢Ω	Р	A		С	NO	.NO.	Α		С	Р	ΩW ⊢Ω	WIRE	DESCRIPTION
L-LIGHTING	12	20	1	1.0			1	2	1.0			1	20	12	EXHAUST FANS
L-LIGHTING	12	20	1			1.0	3	4			1.0	1	20	12	WATER COOLERS
L-LIGHTING	12	20	1	1.0			5	6				1	20		SPARE
L-LIGHTING	12	20	1			1.0	7	8				1	20		SPARE
SPARE		20	1				9	0				1	20		SPARE
R-RECEPTACLES	12	20	1	1.0			П	12				1	20		SPARE
R-RECEPTACLES	12	20	1			1.0	13	14				1	20		SPARE
R-RECEPTACLES	12	20	1	1.0			15	16				1	20		SPARE
R-RECEPTACLES	12	20	1			1.0	17	18				1	20		SPARE
SPARE		20	1				19	20				1	20		SPARE
SPARE		20	1				21	22				1	20		SPARE
SPARE		20	1				23					1	20		SPARE
SPARE		20	1				25	26				1	20		SPARE
SPARE		20	1				27	28				1	20		SPARE
SPARE		20	1				29	30				1	20		SPARE
				4.0		4.0		TAL	1.0		1.0		ATOT	L CON	NECTED KVA 10.0
SERVES					CON	INECTE	ED L	OAL) KVA		DF		CALC	ULATE	D DEMAND-KVA
LIGHTING							2.0				1.25				2.5
RECEPTACLES (FIRST IOKVA)							2.0				1				2.0
RECEPTACLES (FIRST IOKVA)							<u> </u>				O.5				0.00
LARGEST MOTOR							<u> </u>	<u> </u>			1.25				0.00
OTHER MOTORS							2.0				1				2.0
EQUIPMENT/HEAT							0.00				1				0.00
KITCHEN EQUIPMENT						(<u>).OC</u>	<u> </u>			1				0.00
TOTAL DEMAND KVA															6.5
TOTAL AMPERAGE															54.2

I. VERIFY ELECTRICAL REQUIREMENTS FOR ALL EQUIPMENT WITH MANUFACTURERS MANUAL PRIOR TO BIDDING AND INSTALLATION. 2. PROVIDE TYPE WRITTEN DIRECTORY ON INSIDE OF PANEL COVER.

ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

L	.IGHT	FIXTURE SCHEDULE	
N	MARK	TYPE	MANUFACTURER
(4 FT. LONG SURFACE MOUNTED LED FIXTURE WITH WEATHER PROOF COVER	H.E. WILLIAMS 75L-4-L38-840 -A 12125-DRV-UNV OR EQUAL
(B	RECESSED LED CAN WEATHERPROOF	H.E. WILLIAMS 4DR-TL-L2O-835 -DIM-UNV-O-W-OF-WETCC OR EQUAL
(©	EMERGENCY LIGHT DUAL HEAD	BEGHELLI - PEH-1 TWO LAMP EMERGENCY LIGHTING FIXTURE OR EQUAL

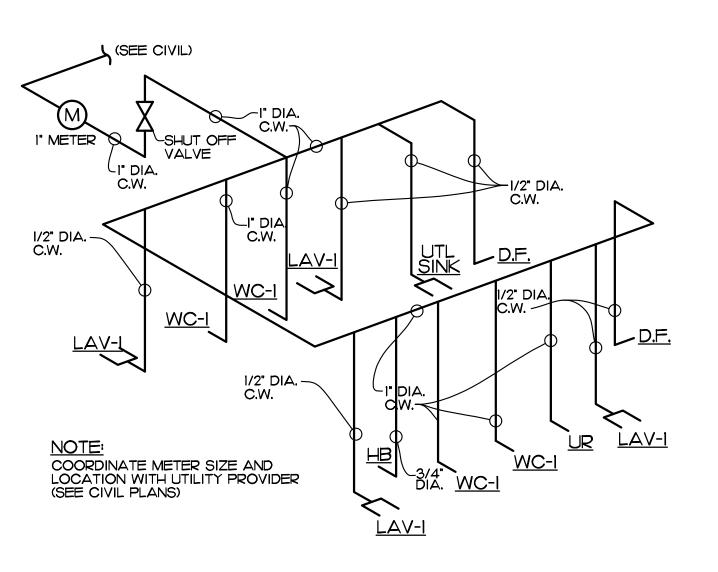


POWER RISER DIAGRAM

PLUMBING PLAN

SCALE: 1/4" = 1'-0"

PLUM	BING FIXTURE SCHEDULE
LAV-I	HANDICAP LAVATORY, AMERICAN STANDARD, LUCERNE, LUCERNE WALL HUNG LAVATORY MODEL NO. 0356.028, WHITE WITH TES BRASS FAUCET BS-2701-VF05. CONTRACTOR TO SUPPLY CONCEALED ARM SUPPORTCARRIER FOR MOUNTING OF LAV. WADE MODEL 520-M36. SUPPLY PLUMBEREX MODEL 4333 INSULATION KIT. MUST MEET ADA CODE.
D.F.	ELKAY WALL MOUNTED VANDAL RESISTANT BI LEVEL ADA COOLER, NON FILTERED, REFRIGERATED MODEL ELKAY #VRCTL8SC COLOR: STAINLESS STEEL
WC-I	HANDICAP WATER CLOSET - FLUSH VALVE BOWL, FLOOR MOUNTED, SIPHON JET VITREOUS CHINA WITH ELONGATED RIM AND 1-1/2" TOP SPUD. 18" HIGH AMERICAN STANDARD 3541.00US ELDERLY NEW CADET AQUAMETER, 1.26 GPF TOILET WITH SLOAN ROYAL III-1.6 FLUSH VALVE AND CENTCO 500CC OPEN FRONT SEAT LESS COVER.
F.D.	FLOOR DRAIN, JOSAM SERIES 30000A, C.I. BODY, POLISHED BRONZE STRAINER, INTEGRAL TRAP, WITH PRIMER CONNECTION AND TRAP GUARD INSERT BY PROSET.
C.O.	EXTERIOR CLEAN OUT, ADJUSTABLE TOP, INTERNAL CLOSURE PLUG, HEAVY DUTY COVER PLATE.
UR	URINAL AMERICAN STANDARD, WASHBROOK #6501.010, FLUSH VALVE SLOAN ROYAL #186-1, WALL MOUNTED WHITE URINAL, WALL CARRIER, WADE #400AMII-M36. MUST MEET A.D.A. CODE.
	!



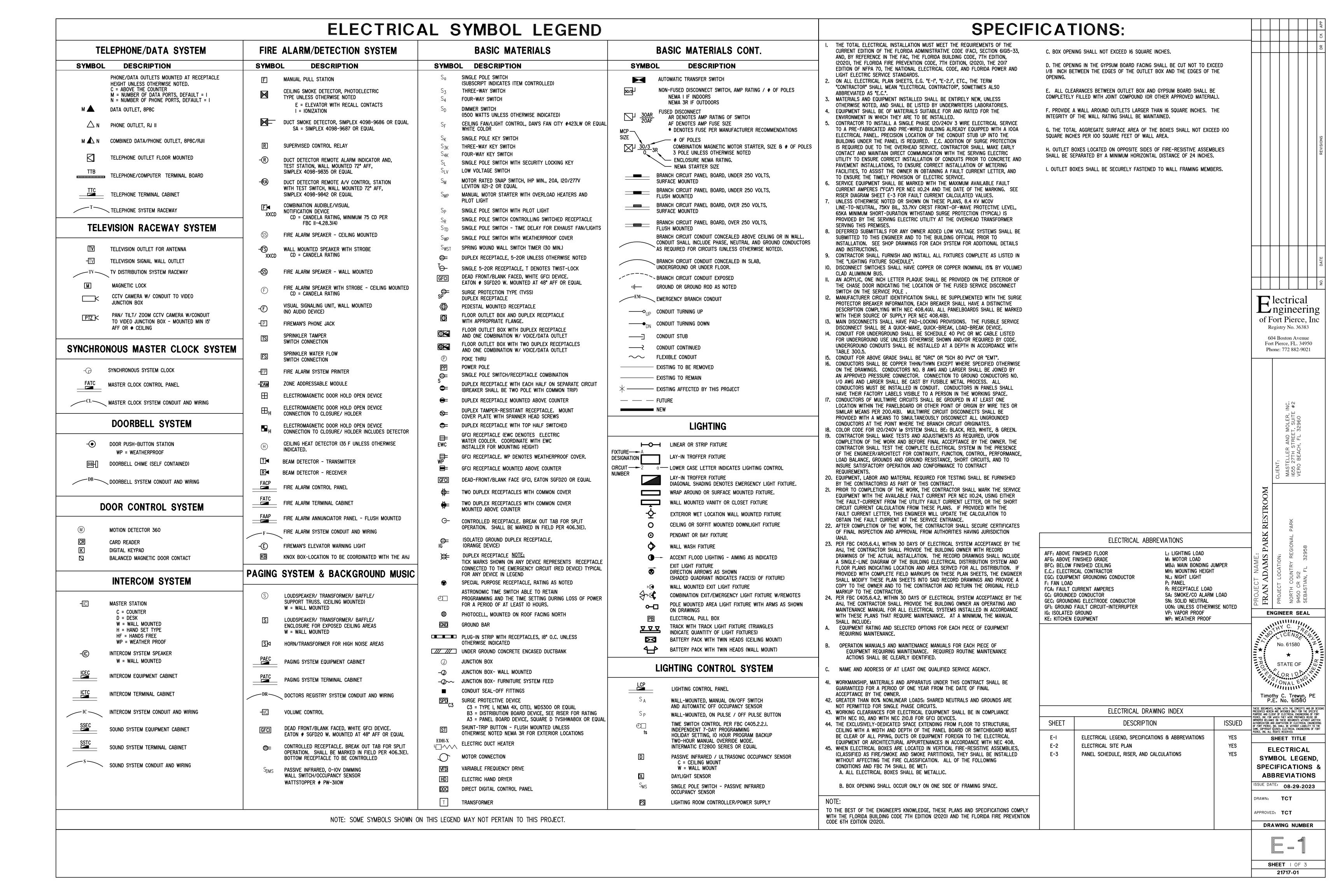
WATER RISER DIAGRAM

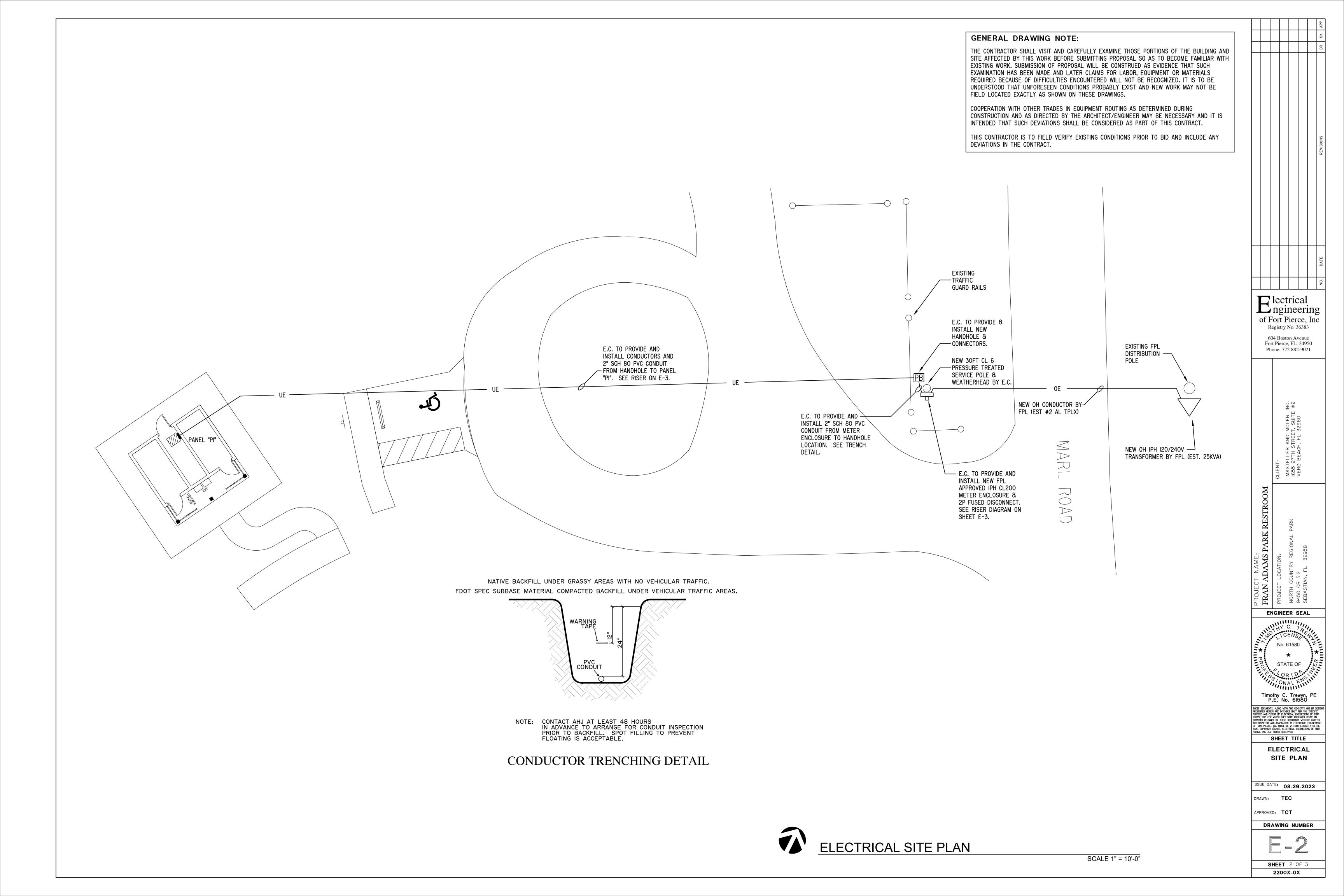
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COMM. NO: 100322VB DATE: JANUARY 18, 2023 I BY: LJD CH'KD: JFB

SHEET NO.





	LIGHTING FIXTURE SCHEDULE										
MARK	MANUFACTURER	PART NUMBER	WATTS	VOLTS	MOUNTING	DESCRIPTION	REMARKS				
Α	HE WILLIAMS	75L-4-L38/840-AF12125-DRV-UNV	32W	UNV	CEILING	4' FLAT LENS LED STRIP, 3800 LUMENS, 80 CRI, 4000K COLOR, DAMP LOCATION, WHITE FINISH	5 YEAR WARRANTY				
В	HE WILLIAMS	4DR-TL-L20/835-DIM-UNV-O-W-OF-WH-BL- WET/CC	20W	UNV	CEILING	4.5" DIA. ROUND LED RECESSED DOWNLIGHT, 2000 LUMENS, 80 CRI, 3500K COLOR, WET LOCATION, WHITE REFLECTOR	5 YEAR WARRANTY				
С	BEGHELLI	PEH-1	2W	UNV	WALL	EMERGENCY DUAL HEAD LED	3 YEAR WARRANTY				

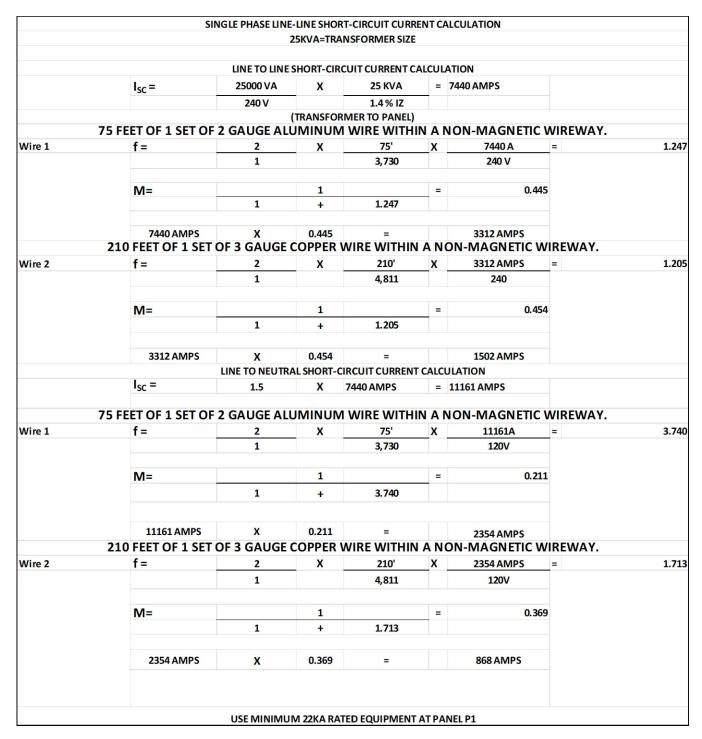
1. VERIFY TYPE OF CEILING FOR EACH FIXTURE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND PROVIDE FIXTURE TRIM AND HOUSING AS REQUIRED.

2. VERIFY VOLTAGES PRIOR TO BID AND INSTALLATION OF FIXTURES.

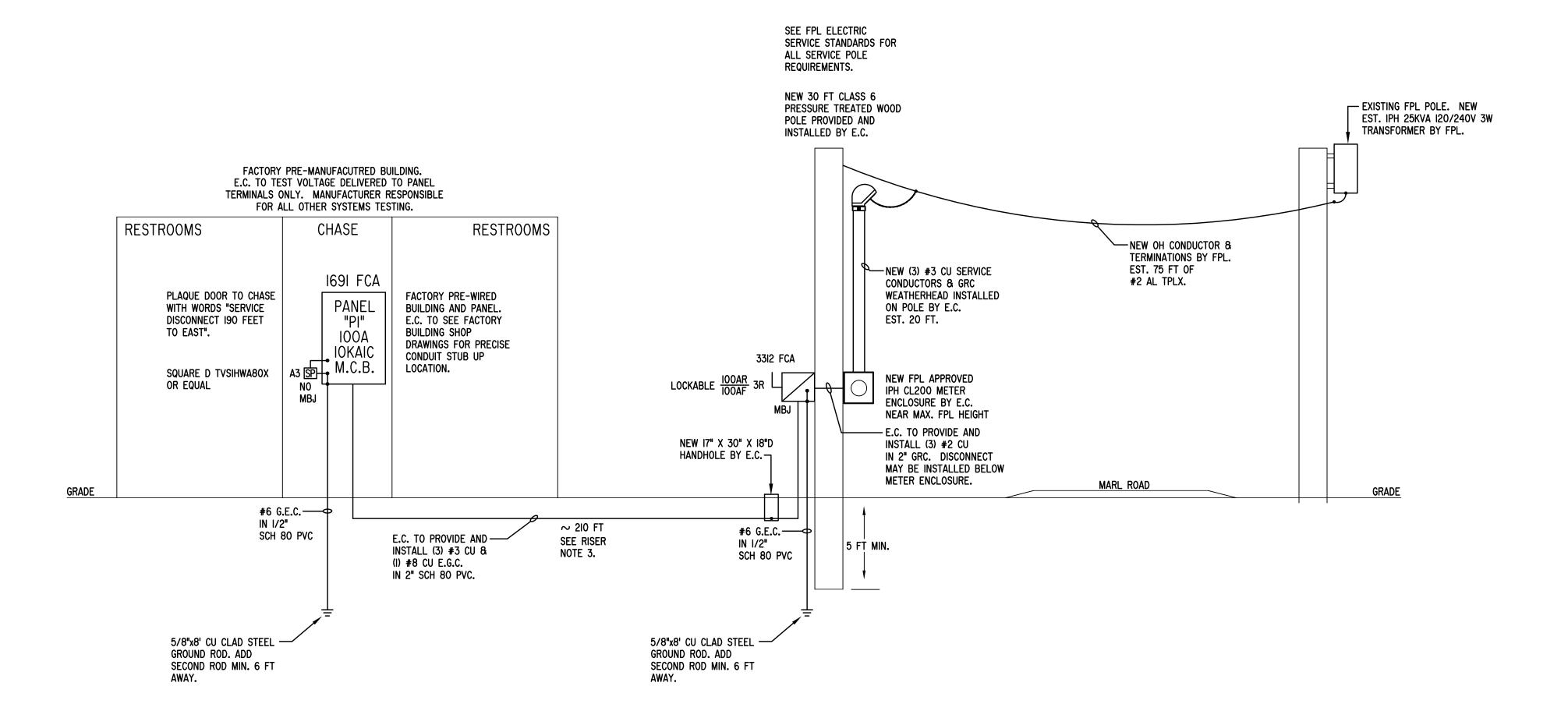
- PROPOSED ALTERNATE LIGHTING BIDS MUST INCLUDE THE FOLLOWING:

 A. PRIMARY AND ALTERNATE BIDS PRICES AND WARRANTIES SHALL BE PRESENTED BY THE VENDORS AND GENERAL CONTRACTOR TO THE OWNER.
- B. PHOTOMETRIC LAYOUT OF PROPOSED ALTERNATE LIGHTING FIXTURES. IESNA LM-79 AND LM-80 TEST DATA MUST BE AVAILABLE FOR THE FIXTURE.
- C. ABOVE INFORMATION MUST BE SUPPLIED OT THE ENGINEER THREE (3) DAYS PRIOR TO BID.

 PROVIDE APPROVED FIRE RATED ENCLOSURES FOR ALL LIGHT FIXTURES LOCATED IN FIRE RATED CEILINGS.
- 5. FIXTURES IN AREAS WITHOUT CEILINGS OR IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE MOUNTED WITH 1 1/2" X 1 1/2" KINDORF CHANNEL SUPPORT SUSPENDED FROM
- ROOF TRUSS STRUCTURE WITH THREADED RODS. SUCH FIXTURES SHALL BE MOUNTED 10' A.F.F. UNLESS OTHERWISE NOTED.
- 6. ALL ACRYLIC LENSED FIXTURES SHALL HAVE A MINIMUM LENS THICKNESS OF 0.125 INCHES.7. ALL SHEET STEEL USED IN FIXTURES ABOVE SHALL HAVE A PHOSPHATE LAYER APPLIED PRIOR TO PAINTING.



ANEL:	VOLTAG	SE:		BUS	BREAKE	R AIC R	ATING:			RATING:				
	120/2	240 1PH 3	W	22KAIC/10KAIC						100A				
				LOCATION	ON:		MOU	INTING:					MAIN CONNECTION:	
P1				CEDI	/ICE CHAS	c	SURFACE NEMA 3R						100A M.C.B.	
	SERV	ICE CHAS	E	FED	FROM:					DEVICE FAMILY:				
								SE	RVICE H	ANDHOL	E		PER BLDG MFR	
DESCRIPTION		CKT	P	CONNEC	TED KVA	No	No.	CONNEC	TED KVA	Р	CKT	WIRE	DESCRIPTION	
L-EXTERIOR NOTE 4	12	20	1	0.04		1	2	0.00		1	20		SPARE	
L-CHASE	12	20	1		0.04	3	4		0.37	1	20	12		
L/F-WOMEN NOTE 7	12	20	1	0.30		5	6	0.18		1	20		SPARE	
L/F-MEN NOTE 7	12	20	1		0.30	7	8		0.00	1	20		SPARE	
SPARE		20	1	0.00		9	10	0.00		1	20		SPARE	
R-ELEC SVC CONV NOTE 5	12	20	1		0.18	11	12		0.00	1	20		SPARE	
R-WOMEN GFCI	12	20	1	0.18		13	14	0.00		1	20		SPARE	
R-MEN GFCI	12	20	1		0.18	15	16		0.00	1	20		SPARE	
R-EXTERIOR CONVENIENCE	12	20	1	0.18		17	18	0.00		1	20		SPARE	
SPARE		20	1		0.00	19	20		0.00	1	20		SPARE	
SPARE		20	1	0.00		21	22	0.00		1	20		SPARE	
SPARE		20	1		0.00	23	24		0.00	1	20		SPARE	
SPARE		20	1	0.00		25	26	0.00					SPACE	
SPARE		20	1		0.00	27	28		0.00	2	*	*	SURGE PROTECTIVE DEVICE 80KA/PHASE	
SPARE		20	1	0.00		29	_	0.00					SEE NOTE 3	
				0.70	0.70		TAL	0.18	0.37	1.95	TOTAL	KVA		
ERVES				С	ONNECTE		D - KV	/A	DF				CALCULATED DEMAND - KVA	
LIGHTING).28			1.25	0.35				
RECEPTACLES (FIRST 10 KVA)						0.90		,	1.00	0.90				
RECEPTACLES (OVER 10 KVA)						0.00			0.50				0.00	
LARGEST MOTOR).37		,	1.25				0.46	
OTHER MOTORS).40			1.00				0.40	
EQUIPMENT/HEAT					0	0.00			1.25				0.00	
OTAL DEMAND KVA:													2.11	
OTAL AMPERAGE:									<u> </u>				8.80	
IOTES:														
1. CONNECT #3 CU FEEDER TO THIS MANUFACT	URER PI	RE-WIR	D PA	NEL.										
2. MEASURE VOLTAGE AT PANEL TERMINALS W	ITH FULI	LOAD	APPL	IED AND P	ROVIDE R	EPOR	T TO E	NGINEER	AT EMAIL	tim@eeft	tp.com			
3. DUE TO OVERHEAD SERVICE, E.C. TO PROVID	E AND I	NSTALL	MINI	IMUM 80K	A PER PHA	ASE SU	JRGE P	PROTECTI	VE DEVICE	, BREAKER	R, COND	UIT A	ND WIRE AS REQUIRED BY SPD MANUFACTURER.	
4. PROVIDE AND INSTALL ASTRONOMIC TIME S	NITCH V	VITH M	NIM	UM 10 HO	JR BATTE	RY BA	CKUP.							
5. INSTALL GFCI PROTECTED RECEPTACLE IN CH	ASE ROC	OM.												
6. INSTALL 24" A.F.G. ON EXTERIOR OF BUILDIN	G AT AN	Y CON	ENIE	NT LOCATI	ON.									



RISER DIAGRAM GENERAL NOTES:

I. E.C. SHALL PROVIDE ARC FLASH HAZARD WARNING SIGNS PER NEC 110.16.

2. E.C. SHALL LEGIBLY FIELD MARK PANELBOARDS WITH THE DATE OF MARKING AND FAULT CURRENT AMPS (FCA) NOTED ON THE RISER DIAGRAM.

3. THE CONDUCTOR LENGTHS SHOWN ARE APPROXIMATE AND CONSERVATIVELY SHORT TO PROVIDE A MARGIN OF SAFETY IN THE CALCULATION OF FAULT CURRENTS. THE E.C. SHALL MAKE HIS OWN MEASUREMENTS AND ESTIMATE OF THE CONDUCTOR LENGTH REQUIRED.

Electrical
Ingineering
of Fort Pierce, Inc
Registry No. 36383
604 Boston Avenue

604 Boston Avenue Fort Pierce, FL. 34950 Phone: 772 882-9021

CLIENT:

MASTELLER AND MOLER, INC.
1655 27TH STREET, SUITE #2
VFRO BFACH FI 32960

FRAN ADAMS PARK RESTROOM
PROJECT LOCATION:

NORTH COUNTRY REGIONAL PARK
9450 CR 512

No. 61580

STATE OF

ORIDAGO

ONALE

Timothy C. Trewyn, PE P.E. No. 61580

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SHEET TITLE

ELECTRIC AL

DETAILS, RISER

& SCHEDULE

ISSUE DATE: 08-29-2023

DRAWN: TCT

APPROVED: TCT

DRAWING NUMBER

21717-01

SHEET 3 OF 3