

MAJOR SITE PLAN CONSTRUCTION PLANS

for

SOUTH COUNTY REGIONAL PARK IMPROVEMENTS

in

INDIAN RIVER COUNTY, FLORIDA

JULY, 2024

OWNER/ APPLICANT

INDIAN RIVER COUNTY PARKS, RECREATION, AND CONSERVATION DEPT.
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CIVIL ENGINEER

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1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32960
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LAND SURVEYOR

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1655 27TH STREET, SUITE 2
VERO BEACH, FLORIDA 32960
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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.

DATUM

THE DATUM AND DESIGN GRADES SHOWN WITHIN THESE PLANS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

TRANSFER OF APPROVAL

PRIOR TO TRANSFER, THE TRANSFEREE MUST ASSUME IN WRITING ON A FORM, ACCEPTABLE TO THE COUNTY ATTORNEY, ALL COMMITMENTS, RESPONSIBILITIES, AND OBLIGATIONS OF THE PRIOR DEVELOPER. FAILURE TO GIVE TIMELY NOTICE OR TO PROVIDE THE ASSUMPTION OF PRIOR COMMITMENT VOIDS THE PRELIMINARY APPROVAL

GENERAL PROJECT STATEMENT

THIS PROJECT PROPOSES IMPROVEMENTS SUCH AS, A NEW CONCRETE PATHWAY NORTH OF THE EXISTING WET DETENTION POND, A STABILIZED PATHWAY EAST OF THE ATHLETIC FIELDS AND TENNIS COURTS, AND A PAVILION AND CONCRETE FITNESS PAD WITH ADA ACCESSIBLE WATER FOUNTAIN WEST OF THE EXISTING IG CENTER AT SOUTH COUNTY PARK

JURISDICTIONAL PERMITTING REQUIREMENTS

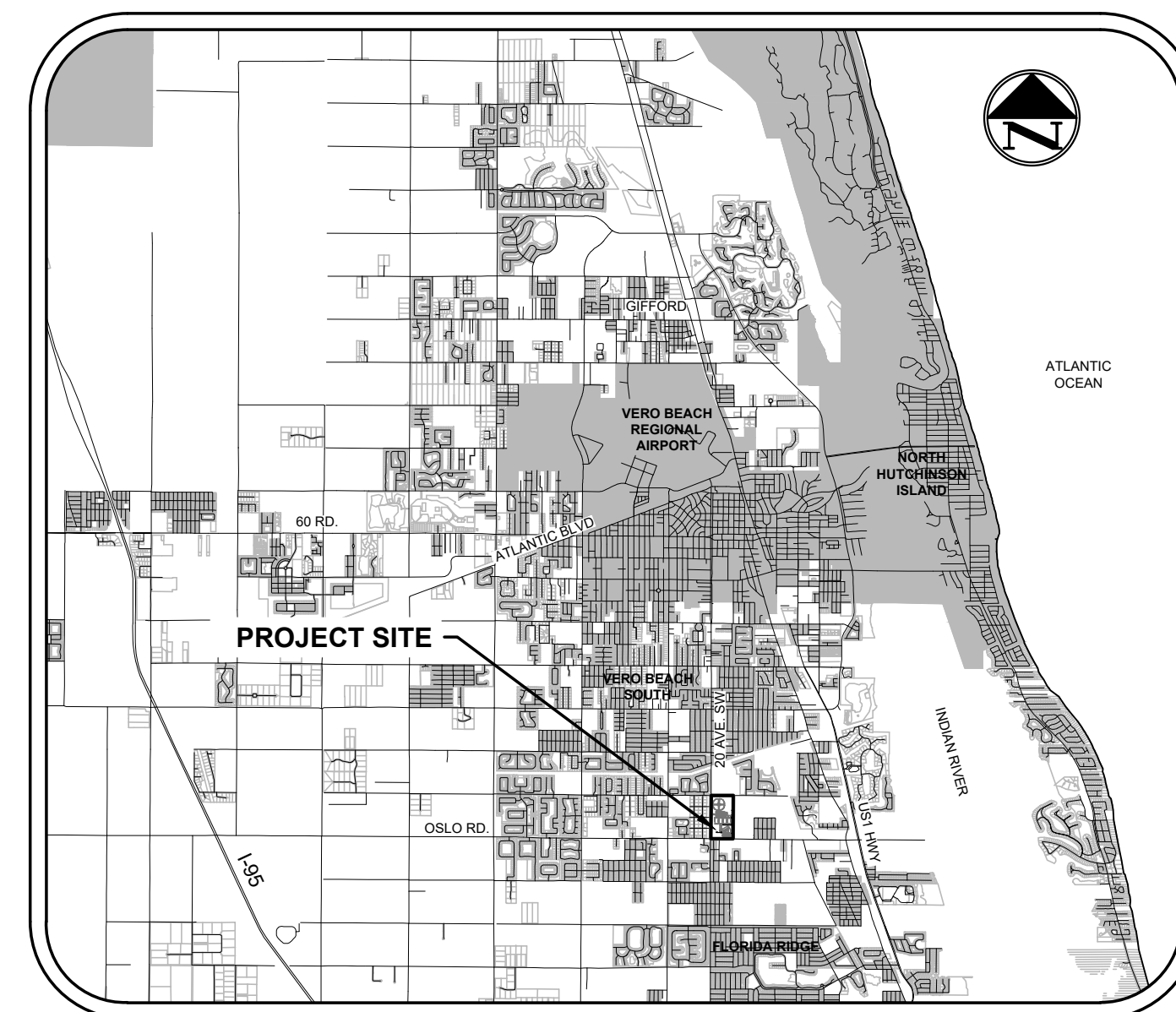
INDIAN RIVER COUNTY:	MAJOR SITE PLAN APPROVAL
INDIAN RIVER COUNTY:	LAND CLEARING PERMIT
INDIAN RIVER COUNTY:	TREE REMOVAL EXEMPTION
INDIAN RIVER COUNTY:	UTILITY CONSTRUCTION PERMIT
INDIAN RIVER COUNTY:	STORMWATER MANAGEMENT TYPE "A" PERMIT
ST. JOHNS RIVER WMD:	ENVIRONMENTAL RESOURCE PERMIT MODIFICATION (OR EQUIVALENT)

INDEX OF SHEETS

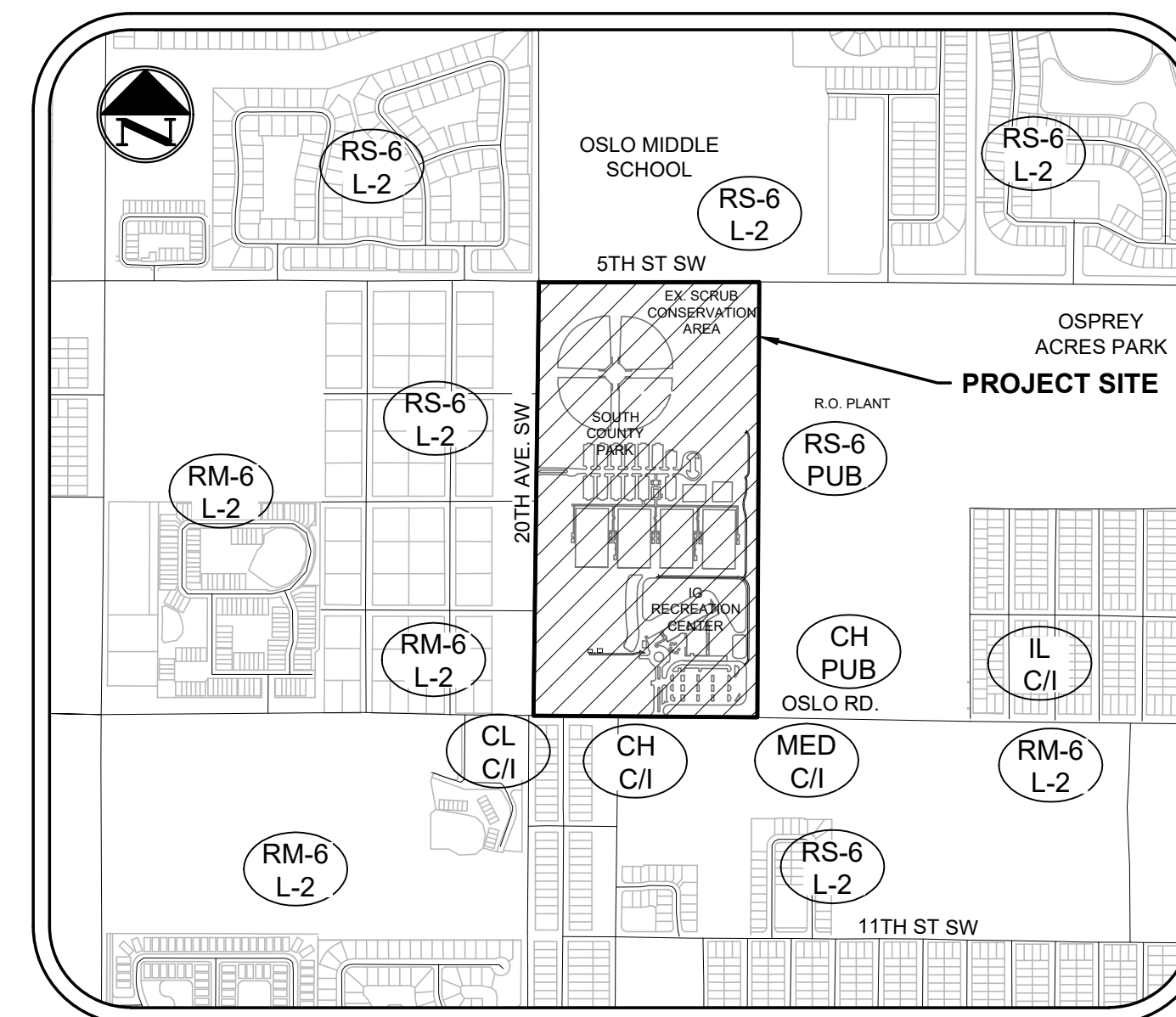
- 1 TITLE SHEET
- 2 CONSTRUCTION NOTES
- 3 STORMWATER POLLUTION PREVENTION PLAN
- 4 - 6 EXISTING CONDITIONS & DEMOLITION PLANS
- 7 OVERALL SITE & KEY SHEET PLAN
- 8 PAVILION & FITNESS ZONE SITE PLAN
- 9 EAST SIDEWALK SITE PLAN
- 10 NORTH SIDEWALK SITE PLAN
- 11 PAVILION & FITNESS ZONE GRADING PLAN
- 12 EAST SIDEWALK GRADING PLAN
- 13 NORTH WALKING PATH GRADING PLAN
- 14 UTILITY PLAN
- 15 CONSTRUCTION DETAILS
- 16 - 17 UTILITY DETAILS

RCP SHELTERS, INC.
1 - 5 LW-G2028-03

LOCATION MAP SCALE: 1" = 10,000'



VICINITY MAP SCALE: 1" = 1,000'



2302_BASE.dwg

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DATUM
THE DATUM AND DESIGN GRADES SHOWN WITHIN THESE PLANS REFER TO THE
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988)
DATUM CONVERSION: NGVD '29 = NAVD '88 + (1.43')

MAJOR SITE PLAN SOUTH COUNTY REGIONAL PARK IMPROVEMENTS

M M MASTELLER & MOLER, INC.
CONSULTING ENGINEERS

CERTIFICATE OF AUTHORIZATION NO. 4204
1655 27TH STREET, SUITE 2 VERO BEACH, FLORIDA 32960
PHONE: (772) 567-5300 ~ FAX: (772) 794-1106

FOR BIDDING PURPOSES ONLY

07/29/24
SEAN C. GREEN, P.E. FL #90797

NO.	DATE	DESCRIPTION	DR/APP
2	7/23/24	REVISED FOR BIDDING	BEV/SCG
1	4/30/24	REVISED PER TRC LETTER 1/8/24	SCG/SCG
REVISIONS			

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE OWNER (772) 567-8000 AND ENGINEER (772) 567-5300 A MINIMUM OF (48) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN CONFORMANCE WITH 62-555.314, F.A.C.: THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" MOST CURRENT EDITION, AND THE TOWN OF INDIAN RIVER SHORES LAND DEVELOPMENT CODE, AS APPLICABLE.
3. CONTRACTOR IS ADVISED TO FAMILIARIZE HIMSELF WITH THE OVERALL SCOPE OF WORK TO BE PERFORMED PRIOR TO SUBMITTING A BID.
4. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO MANUFACTURE.
5. ALL BACKFILL OVER PIPES UNDER PLANNED PAVEMENT AREAS SHALL BE COMPACTED PER F.D.O.T. STANDARD SPECIFICATIONS, SECTION 125.8.3., TO 98% OF THE MAXIMUM DENSITY PER AASHTO T-180.
6. LOCATION OF EXISTING UTILITIES DEPICTED ON THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES PRIOR TO START OF CONSTRUCTION AND VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. SHOW OR NOT SHOWN, IN ORDER TO PREVENT DAMAGE TO EXISTING UTILITIES, AND THE ADJUSTMENT AND/OR RELOCATION OF SAME IF REQUIRED, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY AND ENGINEER OF ANY DAMAGE DURING HIS CONSTRUCTION EFFORTS, AND REPLACE OR REPAIR DAMAGE TO THE SATISFACTION OF THE UTILITY COMPANY, AT NO ADDITIONAL COST TO THE OWNER.
7. ALL GENERAL CONSTRUCTION, MATERIAL TESTING AND METHODS OF INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, AND ENGINEER OF RECORD.
8. THE OWNER, PERMITTING AGENCIES, OR ENGINEER OF RECORD INSPECTION OR FAILURE TO INSPECT ANY MATERIALS OR WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE PLANS, SPECIFICATIONS AND LAWS.
9. ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND IF ANY DISCREPANCIES ARE DISCOVERED, THE ENGINEER OF RECORD SHALL BE NOTIFIED IMMEDIATELY.
10. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO SAFEGUARD ALL EXISTING STRUCTURES & UTILITIES. ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
11. OWNER SHALL PROVIDE SELECTED CONTRACTOR WITH COPIES OF PERMITS RECEIVED FOR THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NOT PROVIDED BY THE OWNER.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OR ENGINEER OF ANY CHANGES OR DEVIATIONS FROM THE ORIGINAL PLANS PRIOR TO CONSTRUCTION OF SAID CHANGE OR DEVIATION.
13. POTABLE WATER SOURCE IS OWNED AND OPERATED BY THE INDIAN RIVER COUNTY UTILITIES DEPARTMENT.
14. CONTRACTOR SHALL NOT REMOVE ANY TREES FROM PROJECT SITE WITHOUT PRIOR AUTHORIZATION FROM PROJECT OWNER OR ENGINEER.
15. THE ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE PRIOR TO ANY INSPECTIONS.
16. CONTRACTOR SHALL SOD ALL DISTURBED AREAS. HYDROSEED & MULCH MAY BE APPLIED IF APPROVED BY THE ENGINEER.
17. CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES, TO INCLUDE THE USE OF TEMPORARY PIPING AND/OR SWALES.
18. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER DURING CONSTRUCTION. ALL TRASH AND DEBRIS IS TO BE REMOVED ON A DAILY BASIS, OR IN A REFUSE CONTAINER APPROVED BY THE LOCAL WASTE MANAGEMENT AUTHORITY, AND REGULAR REMOVAL IS TO BE SCHEDULED BY THE CONTRACTOR.
19. ALL PROPOSED MODIFICATIONS TO APPROVED PLANS SHALL BE SUBMITTED TO THE ENGINEER IN WRITING FOR CONSIDERATION. NO FIELD CHANGES OR DEVIATIONS FROM THE APPROVED DESIGN SHALL BE MADE WITHOUT PRIOR CONSULTATION WITH THE ENGINEER.
20. CONTRACTOR SHALL OBTAIN ALL NECESSARY INSURANCE AND BONDS REQUIRED BY THE OWNER FOR THIS PROJECT.
21. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ANY PUBLIC LAND CORNER, GPS CONTROL POINT, OR OTHER SURVEY BENCHMARK WITHIN THE PROJECT LIMITS. ANY SURVEY BENCHMARK DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
22. CONTRACTOR SHALL NOTIFY THE ENGINEER AND GEODETIC INFORMATION CENTER OF ANY NGVD 1929/NAVD 1988 MONUMENT DISTURBED OR IN DANGER OF BEING DISTURBED IN THE PROJECT LIMITS:
 GEODETIC INFORMATION CENTER
 MARK MAINTENANCE SECTION
 ATTN: NCCS-162
 6001 EXECUTIVE BLVD.
 ROCKVILLE, MD 20852
 TELEPHONE: (301) 443-8319
23. CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES, ONE COPY OF APPROVED CONSTRUCTION PLANS, SPECIFICATIONS, CONSTRUCTION PERMITS, AND ANY SPECIAL PROVISIONS.
24. 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.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL REQUIRED ROAD CROSSING/RIGHT-OF-WAY PERMITS.
26. CONTRACTOR SHALL ENSURE THAT ALL DENSITY TESTS ARE PERFORMED PER AASHTO T-180 METHOD.
27. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC PLAN.
28. THE DEWATERING OF ANY EXCAVATION AREAS AND THE DISPOSAL OF WATER SHALL BE IN STRICT ACCORDANCE WITH THE LATEST REVISION OF ALL LOCAL AND STATE GOVERNMENT RULES AND REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAIN ANY REQUIRED DEWATERING PERMIT FROM THE APPROPRIATE AGENCIES PRIOR TO COMMENCING DEWATERING OPERATIONS.
29. COMBUSTIBLE CONSTRUCTION REQUIRES TEMPORARY FIRE LANES AND HYDRANT INSTALLATION PRIOR TO COMBUSTIBLES ON SITE.
30. NO TREES SHALL BE PLANTED WITHIN (6) SIX FEET OF ANY SIDEWALK.
31. CONTRACTOR SHALL, FOR ALL CONCRETE WORK, OBTAIN CONCRETE CYLINDER TESTS TO CONFIRM 28 DAY COMPRESSIVE STRENGTH MEETS MINIMUM CRITERIA.
32. ALL SOLID, NON-BREAKAWAY OBJECTS (GATE POSTS/COLUMNS, BOLLARDS, STREET LIGHT POLES, ETC.) ALONGSIDE INTERIOR STREETS AND DRIVING AISLES, SHALL BE LOCATED OUTSIDE THE CLEAR ZONE FOR STREETS AND DRIVING AISLES WITH A DESIGN SPEED OF 25 MPH OR LESS. THE MINIMUM CLEAR ZONE IS 1.5 FEET FROM THE FACE OF THE CURB (TYPE "O" OR "T"), OR 6 FEET FROM THE EDGE OF THE OUTSIDE MOTOR VEHICLE TRAVEL WAY WHEN NO CURB AND GUTTER IS PRESENT TO BE IN ACCORDANCE WITH THE FLORIDA GREENBOOK (AASHTO), 2018 ED., CHAPTER 4, SECTION 8.1.D: LATERAL OFFSETS. THIS APPLIES TO PUBLIC AND PRIVATE PROPERTY.
33. EXPANSION JOINTS BETWEEN NEW AND EXISTING CONCRETE SHALL BE PROVIDED. NEW SIDEWALK CONSTRUCTION SHALL INCLUDE JOINTS PER FDOT STANDARD PLAN INDEX 922-001 (P 2022-23).
34. DETECTABLE WARNING STRIPS SHALL BE PROVIDED AT ALL CROSSWALKS AND/OR SIDEWALK / DRIVING AISLE CONNECTIONS.

TESTING NOTES

1. ALL TESTING FOR BACKFILLING AND COMPACTION SHALL MEET FDOT STANDARDS SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION (2021) A FORMAL ACCEPTANCE (EMAIL OR LETTER) FROM THE ENGINEER OF RECORD (EOR) IS REQUIRED PRIOR TO REQUESTING ANY STRING LINE INSPECTION. TESTING RESULTS FOR ALL ROADWAY EMBANKMENTS, SUBGRADE, STABILIZED SUBGRADE, AND BASE FOR PLANNED DEVELOPMENTS AND SUBDIVISIONS SHALL BE PROVIDED TO THE TOWN'S ASSIGNED INSPECTOR VIA EMAIL UPON THE ENGINEER'S DETERMINATION OF ACCEPTANCE. DENSITY AND LINEROCK BEARING RATIO RESULTS SHALL BE SUBMITTED WITHIN A MINIMUM OF FIVE (5) DAYS OF THE SECTION STRING LINE. IF WITHIN FIVE (5) DAYS PASSING TESTS HAVE NOT BEEN PROVIDED INCOMPLETED. FURTHER STRING LINES WILL BE PLACED ON HOLD UNTIL ALL TESTS HAVE BEEN PROVIDED FOR PREVIOUS ACCEPTED SPECIFICATIONS. PENETROMETER TESTS WILL NOT BE ACCEPTED UNLESS CLEARLY DOCUMENTED FOR INFORMATIONAL PURPOSES ONLY.
2. CONTRACTOR SHALL PERFORM DENSITY TESTS ON SUBGRADE AND/OR BASE UNDER PROPOSED CURB AND SIDEWALKS PRIOR TO POURING CONCRETE.
3. CONCRETE CYLINDER TESTS SHALL BE PROVIDED AT A FREQUENCY MEETING LOCAL CODES AND INDUSTRY BMPs.
4. TESTING: AN INDEPENDENT TESTING FIRM SHALL BE RETAINED BY THE CONTRACTOR TO PERFORM TESTING AS FOLLOWS:
 - EMBANKMENT: - DENSITY TESTS: MIN. OF 1 PER 5,000 SF INTERVAL FOR EACH 12 INCH LIFT AND AT ALL EXISTING PROFFROLLED EARTH SURFACES, (MIN. 1 PER JOB)
 - SUBGRADE: - DENSITY TESTS: MIN. OF 1 PER 5,000 SF, (MIN. 1 PER JOB); - L.B.R. TESTS: MIN. OF 1 PER 10,000 SF INTERVAL, (MIN. 1 PER JOB).
 - BASE: - DENSITY TESTS: MIN. OF 1 PER 5,000 SF INTERVAL, (MIN. 1 PER JOB); - L.B.R. TESTS: MIN. OF 1 PER 10,000 SF INTERVAL, (MIN. 1 PER JOB).
 - PIPE BACKFILL: - DENSITY TESTS: MIN. OF 1 PER 250 LF FOR EACH 12 INCH LIFT BEGINNING AT THE SPRINGLINE OF THE PIPE. (MIN. 1 PER PIPE RUN).
 - STRUCTURES: - DENSITY TESTS: MIN. OF 1 ADJACENT TO STRUCTURE FOR EACH 12 INCH LIFT.
 - CURB PADS: - DENSITY TESTS: MIN. OF 1 PER 500 LF INTERVAL (MIN. 1 PER JOB)

UTILITIES

1. ALL CONSTRUCTION SHALL COMPLY WITH THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR ALL SEWER AND WATER APPURTENANCES PRIOR TO FABRICATION.
2. ALL PIPE AND FITTINGS INTENDED TO CONVEY RAW, POTABLE, REUSE & WASTE WATER SHALL BE DESIGNED FOR A WORKING PRESSURE OF 150 PSI.
3. BENDS SHALL BE INSTALLED ON WATER MAINS AS NECESSARY TO AVOID CONFLICT WITH PROPOSED OR EXISTING STRUCTURES AT NO ADDITIONAL COST TO OWNER.
4. 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.
5. MAGNETIC IDENTIFICATION TAPE SHALL BE INSTALLED OVER ALL WATER MAINS AND SEWAGE FORCE MAINS.
6. THE BACKFILL OVER ANY WATER MAIN, FORCE MAIN AND SANITARY SEWER IS TO BE COMPACTED IN 6" LIFTS MAXIMUM WITH A MECHANICAL TAMPER OR OTHER MEANS ACCEPTABLE TO THE OWNER AND/OR ENGINEER. UNSUITABLY SIZED STONES (REFERENCE AWWA SPECIFICATIONS) SHALL BE REMOVED FROM THE TRENCH FOR A DEPTH OF SIX INCHES BELOW THE BOTTOM OF THE PIPE. COMPACTION SHALL BE TO 98% MODIFIED PROCTOR IN ACCORDANCE WITH AASHTO T-180. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH COMPACTION TEST RESULTS AT 200' INTERVALS AT HIS EXPENSE.
7. CONTRACTOR SHALL OBTAIN A COPY OF THE F.D.E.P. WATER PERMITS AND PERFORM SAMPLING & TESTING IN CONFORMANCE WITH THE PERMIT CONDITIONS.

POTABLE WATER

8. ALL POTABLE & RAW WATER PIPING, JOINTING, AND PACKING MATERIALS, INTERNAL COATING AND LININGS, FITTINGS, AND APPURTENANCES TO BE INSTALLED ON THIS PROJECT SHALL BE IN CONFORMANCE WITH THE CORRESPONDING AWWA STANDARDS AND NSF REQUIREMENTS AS APPLICABLE.
9. ALL PIPE AND FITTINGS AS WELL AS SOLDER AND FLUX INSTALLED OR USED IN THE CONSTRUCTION OF THIS PROJECT ARE TO COMPLY WITH 62-555.340 F.A.C. WITH REGARD TO LEAK.
10. ALL POTABLE WATER MAINS SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE (PVC) PIPE UNLESS NOTED OTHERWISE.
11. POLYVINYL CHLORIDE (PVC) POTABLE WATER MAIN SHALL BE BLUE IN COLOR. RAW WATER MAIN SHALL BE WHITE WITH BLUE LONGITUDINAL STRIPING AND MARKED "RAW WATER".
12. 3" DIAMETER OR SMALLER SHALL BE THICKNESS CLASS SDR-21 MEETING ASTM D2241.
 - 4" - 12" DIAMETER SHALL BE THICKNESS CLASS DR-18 MEETING AWWA C900.
 - 14" - 36" DIAMETER SHALL BE THICKNESS CLASS DR-18 MEETING AWWA C905.
12. DUCTILE IRON PIPE (DIP) FOR POTABLE WATER MAINS SHALL BE PRESSURE CLASS 350 MEETING AWWA C150.

POLYETHYLENE (PE) PIPE

13. ALL PE PIPE 4" THROUGH 63" DIAMETER SHALL BE AWWA C906, PE-3408, DR-11 OR APPROVED EQUAL POTABLE & RAW WATER PE PIPE SHALL CONFORM TO AND BEAR THE MARKINGS OF NSF STANDARD 61. PE PIPE SHALL HAVE A COLOR-CODED LONGITUDINAL STRIPE AS FOLLOWS: BLUE FOR POTABLE WATER, WHITE FOR RAW WATER, PURPLE FOR REUSE WATER, AND GREEN FOR WASTEWATER.

TESTING & FLUSHING

14. ALL PRESSURE AND BACTERIOLOGICAL TESTING FOR WATER MAINS, TV/FILTRATION TESTS FOR GRAVITY SEWER AND PRESSURE TEST FOR FORCE MAINS, SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND COORDINATED WITH THE OWNER AND ENGINEER. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ALL TEST RESULTS.
15. WATER MAINS AND FORCE MAIN SHALL BE FLUSHED AT A MINIMUM VELOCITY OF 2.5 FPS PRIOR TO PRESSURE TESTING AND DISINFECTION.
16. THE CONTRACTOR SHALL DISINFECT THE NEW WATER SYSTEM IN CONFORMANCE WITH AWWA C651, C652, AND C653 AS APPLICABLE. EXCEPT THAT BACTERIOLOGICAL EVALUATIONS TO VERIFY PROPER DISINFECTION SHALL BE CONDUCTED IN ACCORDANCE WITH 62-555.340 F.A.C. THE CONTRACTOR SHALL HAVE WATER SAMPLES TESTED AT HIS EXPENSE, WHICH SAMPLES SHALL BE PROVIDED TO THE ENGINEER TO ASSURE OBTAINMENT OF REQUIRED CHLORINE RESIDUALS FOLLOWING SATISFACTORY CHLORINATION. THE SYSTEM SHALL BE FLUSHED TO ACHIEVE NORMAL CHLORINE RESIDUALS. BACTERIOLOGICAL SAMPLES SHALL BE TAKEN ON TWO (2) CONSECUTIVE DAYS, AT THE CONTRACTOR'S EXPENSE, AND RESULTS SHALL BE PROVIDED TO THE ENGINEER. IF THE SYSTEM PRESSURE DROPS FOLLOWING (2) SUCCESSFUL DISINFECTIONS, THE WATER SYSTEM SHALL BE SUBJECT TO RE-TESTING. TESTING LOCATIONS SHALL BE PER FDEP PERMIT REQUIREMENTS.
17. USE POTABLE WATER FOR PRESSURE TESTS.
18. WATER SYSTEM PRESSURE TESTS SHALL BE COMPLETED IN THE PRESENCE OF THE ENGINEER OR HIS REPRESENTATIVE. FOR TWO (2) HOURS IN DURATION OR AS ACCEPTABLE TO THE UTILITY OWNER, AT AN AVERAGE PRESSURE OF 150 PSI. ALLOWABLE LEAKAGE WILL BE COMPUTED BASED ON AWWA C905 FOR PVC PIPE AND AWWA C900 FOR DIP AS FOLLOWS:

$$L = \frac{N \times D \times P}{7.400}$$
 WHERE: L = LEAKAGE ALLOWABLE (GPH)
 N = NUMBER OF PIPE JOINTS
 D = NOMINAL PIPE DIAMETER (INCHES)
 P = AVERAGE TEST PRESSURE (PSI, GAUGE)
19. FORCE MAINS (SANITARY SEWER & RECLAIMED) SHALL BE PRESSURE TESTED THE SAME AS WATER MAINS, EXCEPT THAT TEST PRESSURE SHALL AVERAGE NO LESS THAN 100 PSI.
20. PRESSURE TESTING OF PE PIPE SHALL COMPLY WITH AWWA MANUAL M55, ASTM F 2164, AND PLASTIC PIPE INSTITUTE (PPI) HANDBOOK OF POLYETHYLENE PIPE. PE PIPE SHALL BE TESTED AFTER INSTALLATION (I.E., DIRECTIONAL BORE), ZERO LEAKAGE WILL BE ALLOWED.
21. GRAVITY SEWER AND MANHOLES SHALL BE CLEANED OF ALL DEBRIS, GRIT AND OTHER MATERIALS FOLLOWING COMPLETION OF THE SYSTEM. THE SYSTEM SHALL BE TESTED BY THE CONTRACTOR, AT HIS EXPENSE, IN THE PRESENCE OF THE ENGINEER, FOR INFILTRATION. INFILTRATION SHALL NOT EXCEED 50 GALLONS/DAY/INCH DIAMETER/MILE. TELEVISION TESTING FOR ALL GRAVITY SEWERS SHALL ALSO BE REQUIRED.
22. THE CONTRACTOR SHALL SUPPLY THE OWNER AND ENGINEER WITH TWO COPIES OF AS-COPLETED 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 PRIOR TO SUBMISSION.

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 INCLUDED BUT ARE NOT LIMITED TO: CURB, MANHOLES, VALVES, METERS, FIRE HYDRANTS, ETC. THE CONTRACTOR IS ADVISED TO UTILIZE BOTH THE PLAN VIEW AND DETAILS TO ACCURATELY CONSTRUCT ALL PROPOSED IMPROVEMENTS.

DRAINAGE & STRUCTURES

1. ALL STORM WATER PIPES SHALL BE REINFORCED CONCRETE PIPE (RCP), CLASS III, ADS N-12, OR CORRUGATED ALUMINUM PIPE (CAP), RESPECTIVELY, AS NOTED ON THE PLANS, AND IN ACCORDANCE WITH THE SPECIFICATIONS OR APPROVED EQUAL. RCP MUST BE USED UNDER ALL PAVEMENT AND CURBS.
2. INLETS SHALL BE PRE-CAST IN CONFORMANCE WITH F.O.D.T. STANDARD SPECIFICATIONS WITH 28 DAY 4000 PSI CONCRETE.
3. ADJUSTMENT OF INLET AND MANHOLE TOPS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. NO CLAIM SHALL BE MADE AGAINST THE OWNER AND/OR ENGINEER IN THE EVENT ADJUSTMENTS ARE NECESSARY.
4. ALL CORRUGATED ALUMINUM PIPE (CAP) SHALL BE SPIRAL RIBBED WITH A MANNING'S "n"=0.012.
5. IF HDPE N-12 PIPE IS USED, PERFORATIONS SHALL BE PROVIDED AT ALL LAKE CONNECTIONS.

FDEP SEPARATION NOTES

- FROM 62-555.314, F.A.C.
- (1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
 - (A) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
 - (B) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.
 - (C) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.
 - (D) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.006(2), F.S., AND RULE 64E-6.002, F.A.C.
 - (2) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.
 - (A) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
 - (B) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
 - (C) AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE 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 SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, 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.
 - (3) SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES.
 - (A) NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE.
 - (B) WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THIS REQUIREMENT (I.E., WHERE THERE IS A CONFLICT IN THE ROUTING OF A WATER MAIN AND A STORM SEWER AND WHERE ALTERNATIVE ROUTING OF THE WATER MAIN OR THE STORM SEWER IS NOT TECHNICALLY FEASIBLE OR IS NOT ECONOMICALLY SENSIBLE). THE DEPARTMENT SHALL ALLOW EXCEPTIONS TO THIS REQUIREMENT (I.E., THE DEPARTMENT SHALL ALLOW CONSTRUCTION OF CONFLICT MANHOLES), BUT SUPPLIERS OF WATER OR PERSONS PROPOSING TO CONSTRUCT CONFLICT MANHOLES MUST FIRST OBTAIN A SPECIFIC PERMIT FROM THE DEPARTMENT IN ACCORDANCE WITH PART V OF THIS CHAPTER AND MUST PROVIDE THE PRELIMINARY DESIGN REPORT OR DRAWINGS, SPECIFICATIONS, AND DESIGN DATA ACCOMPANYING THEIR PERMIT APPLICATION THE FOLLOWING INFORMATION:
 1. TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH CONFLICT MANHOLE.
 2. A STATEMENT IDENTIFYING THE PARTY RESPONSIBLE FOR MAINTAINING EACH CONFLICT MANHOLE.
 3. ASSURANCE OF COMPLIANCE WITH THE DESIGN AND CONSTRUCTION REQUIREMENTS IN SUB-SUBPARAGRAPHS A THROUGH D BELOW.
 - (C) EACH CONFLICT MANHOLE SHALL HAVE AN ACCESS OPENING, AND SHALL BE SIZED, TO ALLOW FOR EASY CLEANING OF THE MANHOLE.
 - (D) GRATINGS SHALL BE INSTALLED AT ALL STORM SEWER INLETS UPSTREAM OF EACH CONFLICT MANHOLE TO PREVENT LARGE OBJECTS FROM ENTERING THE MANHOLE.

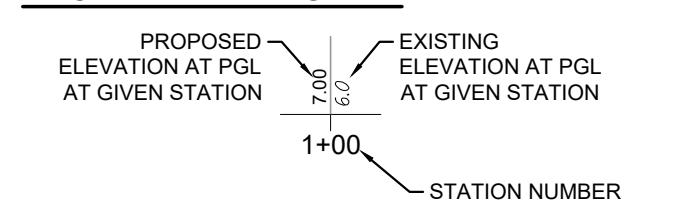
- (4) SEPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS. NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AT LEAST THREE FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.006(2), F.S., AND RULE 64E-6.002, F.A.C.
- (5) IN THE EVENT THAT FDEP AND LOCAL UTILITY STANDARDS CONFLICT, THE MORE STRINGENT STANDARD SHALL APPLY.

1. TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH CONFLICT MANHOLE.
2. A STATEMENT IDENTIFYING THE PARTY RESPONSIBLE FOR MAINTAINING EACH CONFLICT MANHOLE.
3. ASSURANCE OF COMPLIANCE WITH THE DESIGN AND CONSTRUCTION REQUIREMENTS IN SUB-SUBPARAGRAPHS A THROUGH D BELOW.
- A. EACH WATER MAIN PASSING THROUGH A CONFLICT MANHOLE SHALL HAVE A FLEXIBLE, WATERTIGHT JOINT ON EACH SIDE OF THE MANHOLE TO ACCOMMODATE DIFFERENTIAL SETTLING BETWEEN THE MAIN AND THE MANHOLE.
- B. WITHIN EACH CONFLICT MANHOLE, THE WATER MAIN PASSING THROUGH THE MANHOLE SHALL BE INSTALLED IN A WATERTIGHT CASING PIPE HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE).
- C. EACH CONFLICT MANHOLE SHALL HAVE AN ACCESS OPENING, AND SHALL BE SIZED, TO ALLOW FOR EASY CLEANING OF THE MANHOLE.
- D. GRATINGS SHALL BE INSTALLED AT ALL STORM SEWER INLETS UPSTREAM OF EACH CONFLICT MANHOLE TO PREVENT LARGE OBJECTS FROM ENTERING THE MANHOLE.

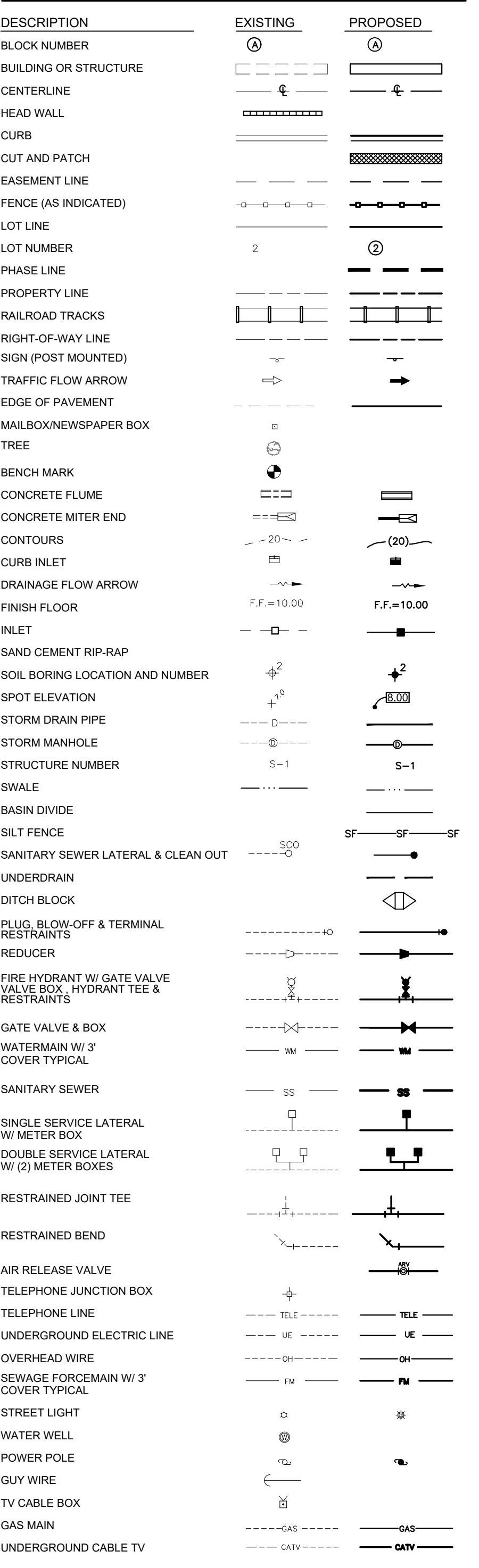
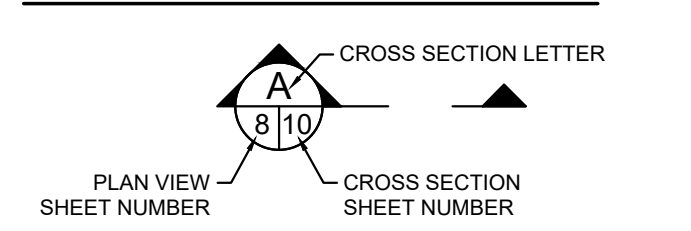
SYMBOL & ABBREVIATION LEGEND:

- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- M.E. MATCH EXISTING GRADE
- EXIST. EXISTING
- PROP. PROPOSED
- CONST. CONSTRUCT
- E.G. EXISTING GRADE
- F.G. FINISHED GRADE
- PGL PROFILE GRADE LINE
- HP HIGH POINT OF PROFILE GRADE LINE
- LP LOW POINT OF PROFILE GRADE LINE

PROFILE VIEW LEGEND:



CROSS SECTION CALLOUT LEGEND:



DATUM
 THE DATUM AND DESIGN GRADES SHOWN WITHIN THESE PLANS REFER TO THE
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988)
 DATUM CONVERSION: NGVD '29 = NAVD '88 + (1.43')

CONSTRUCTION NOTES
CONSTRUCTION PLANS
SOUTH COUNTY REGIONAL PARK IMPROVEMENTS
INDIAN RIVER COUNTY PARKS & RECREATION
 FLORIDA

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M M MASTELLER & MOLER, INC.
CONSULTING ENGINEERS
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 (772) 567-5300 / FAX (772) 794-1106

NO.	DATE	DESCRIPTION	DR/APP
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 Scale: As Shown
 Plot: 2/8/2024 10:52:30 AM
 Plot Device: AutoCAD Plotter
 Plot Style: AutoCAD.ctb
 Plot Range: Extents
 Plot Scale: 1"=1'-0"
 Plot Units: Feet
 Plot Weight: 1/8" x 11"

NPDES NOTES

NOTICE TO CONTRACTORS:
THIS PROJECT IS REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AS ADMINISTERED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP).

THE CONTRACTOR SHALL THEREFORE COMPLY WITH THE REQUIREMENTS OF FDEP'S "GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES" PER FDEP DOCUMENT NUMBER 62-621.300(4) (A). IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL AND MAINTAIN BMP'S AT THE SITE IN ACCORDANCE WITH THE CONDITIONS OF THE "GENERIC PERMIT". THE CONTRACTOR SHALL BE CONSIDERED TO BE THE "OPERATOR" AS DEFINED HEREIN.

THE OPERATOR IS DEFINED AS: THE LEGAL ENTITY THAT OWNS OR OPERATES THE CONSTRUCTION ACTIVITY AND THAT HAS THE AUTHORITY TO CONTROL THOSE ACTIVITIES AT THE PROJECT NECESSARY TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE PERMIT. THE OPERATOR'S RESPONSIBILITIES ARE AS A MINIMUM AS FOLLOWS:

- PREPARE STORMWATER POLLUTION PREVENTION PLAN AND MAINTAIN THE SITE IN ACCORDANCE WITH THAT PLAN.
- FILE A "NOTICE OF INTENT" (DEP FORM 62-621.300(4) (D)), INCLUDING APPLICABLE PERMIT PROCESSING FEES 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. A COPY OF THE "NOI" OR A LETTER FROM THE FDEP CONFIRMING COVERAGE UNDER THE PERMIT SHALL BE POSTED ON SITE FOR PUBLIC VIEWING.
- PROVIDE A "QUALIFIED INSPECTOR" TO PERFORM THE REQUIRED INSPECTIONS IN ACCORDANCE WITH THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES, DEP DOC # 62-621(4) (A).
- BEFORE CONDUCTING ANY PROJECT ACTIVITIES THE OPERATOR AND ALL SUBCONTRACTORS SHALL SIGN AND PROVIDE TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, THE OWNER/DEVELOPER AND THE ENGINEER A COPY OF THE FOLLOWING:

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND AND SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (FDEP DOC #62-621-300(4) (A)) AND THE STORM WATER POLLUTION PREVENTION PLAN."

THE CERTIFICATION MUST INCLUDE THE NAME AND TITLE OF THE PERSON PROVIDING THE SIGNATURE; THE NAME, ADDRESS, AND TELEPHONE NUMBER OF THE CONTACTING FIRM; AND THE DATE THE CERTIFICATION IS MADE.
- WITHIN 14 DAYS OF A DIFFERENT OPERATOR TAKING RESPONSIBILITY OF THE CONSTRUCTION ACTIVITIES A "NOTICE OF TERMINATION" (DEP FORM 62-621-300(6)) SHALL BE SUBMITTED. IF A "N.O.T." IS SUBMITTED DUE TO A CHANGE OF OPERATOR, WITHIN 48 HOURS BEFORE ASSUMING CONTROL OF THE CONSTRUCTION ACTIVITIES, THE NEW OPERATOR SHALL FILE A SIGNED "N.O.I." IN ACCORDANCE WITH THIS PERMIT.
- WITHIN 14 DAYS OF THE FINAL STABILIZATION OF THE SITE, OPERATOR SHALL FILE A "NOTICE OF TERMINATION" (DEP FORM 62-621-300(6)), TO THE F.D.E.P. WITH COPIES TO THE OWNER AND ENGINEER.

EROSION CONTROL NOTES

- CONTRACTOR SHALL OBTAIN FDEP NPDES (NOI) PERMIT IF REQUIRED. PROOF OF NOI SHALL BE PROVIDED TO ENGINEER PRIOR TO PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL USING BEST MANAGEMENT PRACTICES FOR THE DURATION OF THE PROJECT UNTIL SUCH TIME AS THE PROJECT HAS BEEN CERTIFIED AS COMPLETE.
- ATTENTION IS DIRECTED TO THE FACT THAT BMP'S ARE PERFORMANCE-BASED. IN THE EVENT THAT INSTALLED BMP'S FAIL TO CONTROL EROSION AND/OR STORM - WATER POLLUTION ADDITIONAL BMP'S MAY BE REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR NPDES PERMITTING, INSPECTION, REPORTING, AND COMPLIANCE.
- THE CONTRACTOR SHALL SOD ALL OPEN SPACE AREAS TO BE GRASSED IMMEDIATELY FOLLOWING FINAL GRADING AND COMPLETION OF ALL UNDERGROUND UTILITIES. HYDROSEED & MULCH MAY BE APPLIED IF APPROVED BY THE ENGINEER.
- SILT FENCE SHALL BE INSTALLED ALONG LIMITS OF CONSTRUCTION.
- SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRED IMMEDIATELY IF DAMAGED.
- ALL SIDE SLOPES OF STORMWATER MANAGEMENT AREAS SHALL BE SODDED ON COMPLETION OF FINAL GRADING.
- ALL INLETS SHALL BE PROTECTED FROM COLLECTION OF ERODED MATERIALS BY INSTALLATION OF TEMPORARY FILTER FABRIC AND/OR HAY BALES.
- FLOATING TURBIDITY BARRIERS SHALL BE INSTALLED WITHIN ALL WATER BODIES DOWNSTREAM OF CONSTRUCTION ACTIVITIES WHERE TURBID WATERS DISCHARGE MAY OCCUR.
- THE CONTRACTOR SHALL PROVIDE DUST CONTROL, SUCH AS AN ONSITE WATER TRUCK.

LAND CLEARING AND ENVIRONMENTAL NOTES

NO TREES OR TREE LINES ARE TO BE DISTURBED BY THE CONSTRUCTION OF THESE PROJECT IMPROVEMENTS.

GRUBBING AND LAND CLEARING SHALL BE CONDUCTED UNDER THE PROJECT'S ENVIRONMENTAL RESOURCE PERMIT AND IRC LAND CLEARING PERMIT. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE PERMITS AT THE SITE DURING LAND CLEARING AND TREE REMOVAL OPERATIONS.

PRIOR TO COMMENCING LAND CLEARING OPERATIONS THE ENGINEER, OWNER, AND CONTRACTOR SHALL INSPECT THE SITE TO IDENTIFY PRESERVATION TREES AND OTHER RESOURCES. CONTRACTOR SHALL INSTALL BMP'S PRIOR TO COMMENCEMENT.

PROTECTED/LISTED SPECIES
PRIOR TO COMMENCEMENT OF LAND CLEARING THE OWNER SHALL CONDUCT A LISTED SPECIES SURVEY AND REMOVE ANY LISTED SPECIES FROM THE CONSTRUCTION AREA. THE CONTRACTOR SHALL COMPLY WITH THE CONDITIONS OF ALL ENVIRONMENTAL PERMITS.

IF PROTECTED/LISTED SPECIES ARE ENCOUNTERED IN THE DEVELOPMENT AREA AT ANY TIME DURING CONSTRUCTION THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.

SPECIMEN TREES
SPECIMEN TREES (IE: LARGE OAK TREES, ETC) SHALL NOT BE DISTURBED OR DAMAGED. CONTRACTOR SHALL BE LIABLE FOR FINES, MITIGATION AND OTHER PENALTIES INCURRED BY DAMAGE TO SPECIMEN TREES.

STORMWATER POLLUTION PREVENTION PLAN

Nature of Construction Activity: NEW PAVILION AND FITNESS ZONE PADS COMPLIMENTED WITH CONCRETE SIDEWALK STABILIZE EXISTING ROCK PATHWAY AND CONSTRUCT NEW CONCRETE PATH AROUND EXISTING LAKE.

Sequence of Construction Events:

- Install silt fence and other erosion control devices.
- Clear and grub site.
- Rough grading.
- Construct stormwater management modification.
- Construct underground utilities.
- Construct concrete areas and structures
- Final grading/landscaping

Total Area of the Site: 73.67 Acres

Area to be Disturbed: 3.4 Acres

Soil Description: Myakka-Myakka Wet Fine Sands
Myakka Fine Sand
Archbold Sand

Drainage Area Size: 73.67 Acres

Best Management Practices (BMP's)

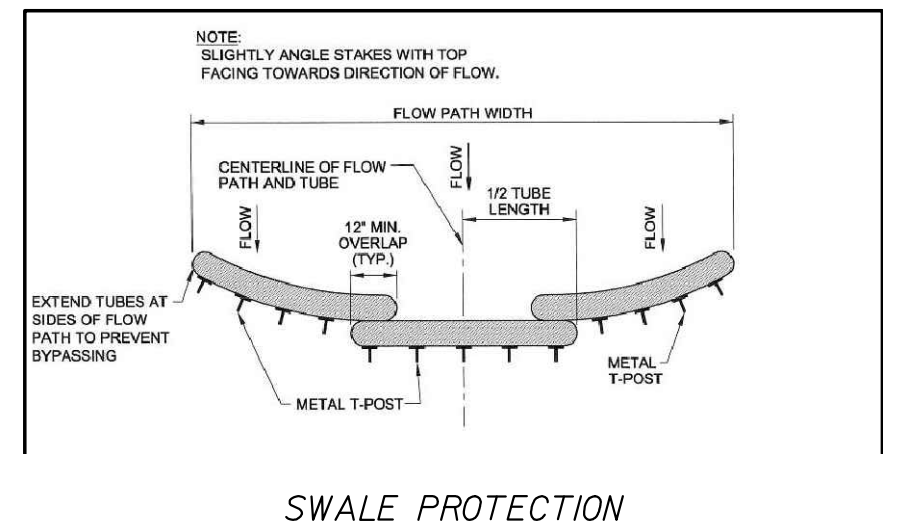
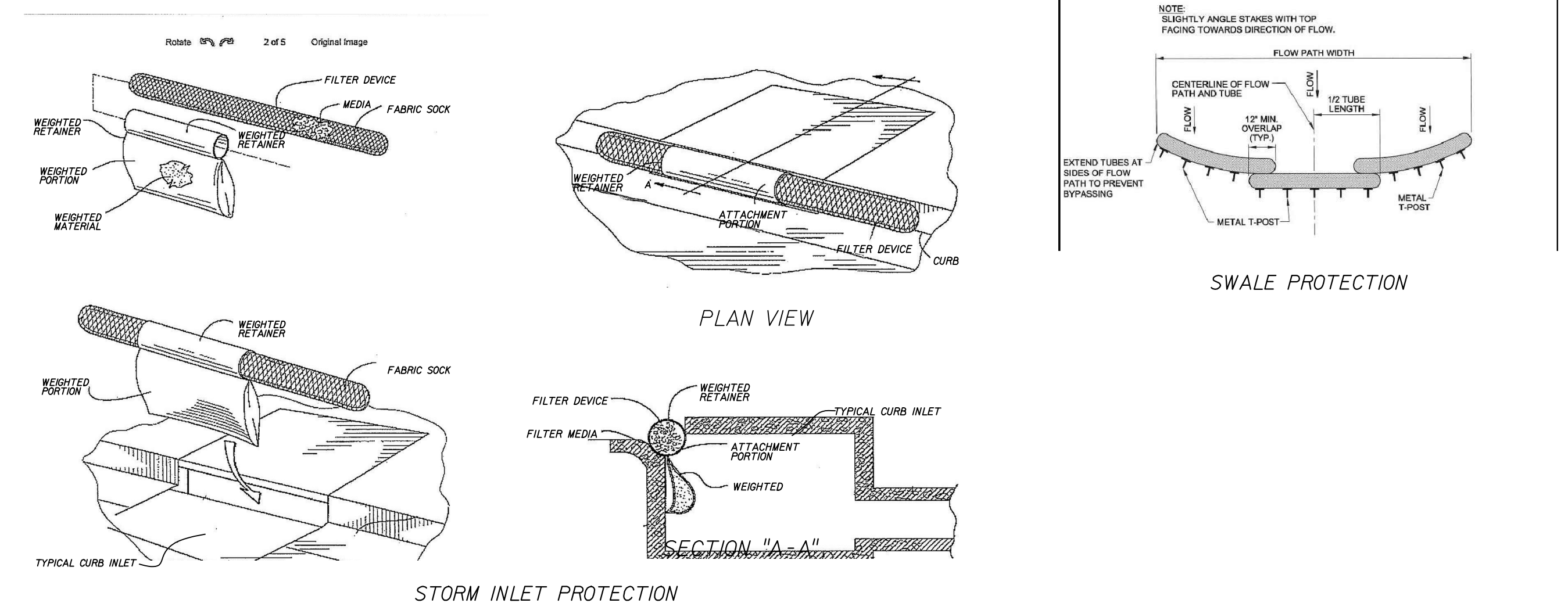
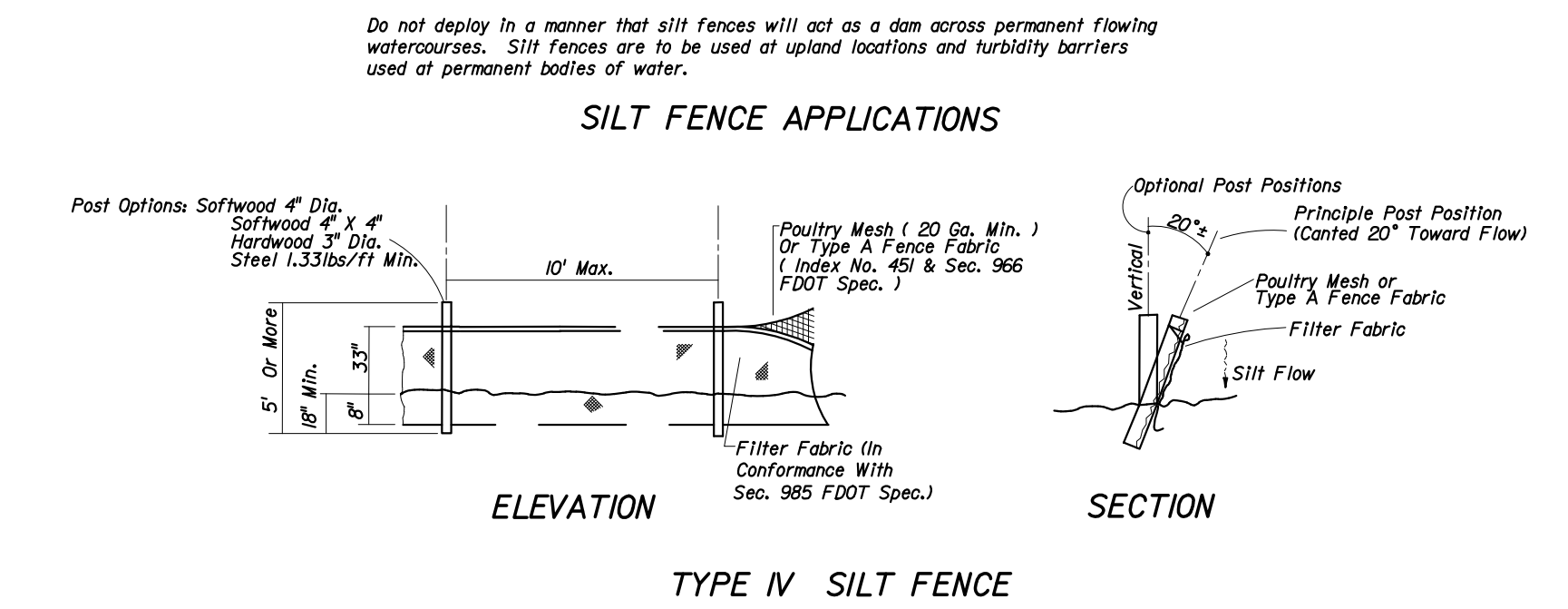
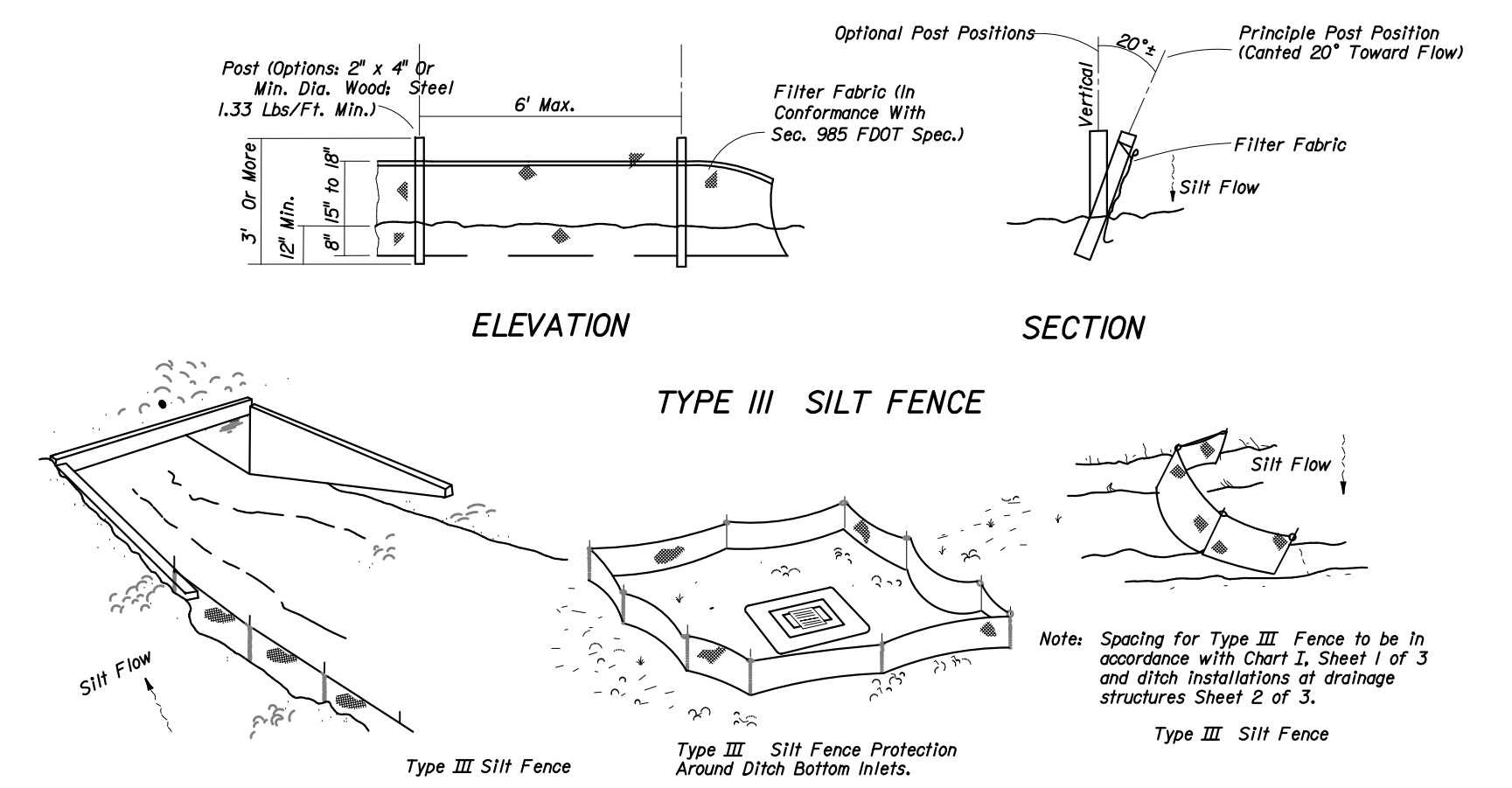
Silt fence, Inlet protection.
Construction sequence minimizes time for potential erosion, gravel entrance limits soil on adjacent paved roadways.

Potential Pollutants: Portable toilet chemicals will be properly handled and disposed.

Inspections: Site will be inspected for erosion problems daily and after each rainfall event greater than 0.5 inches. A rain gage shall be installed on site to monitor rainfall.

Contractor is responsible for installing additional erosion control as necessary to meet State and Local requirements.

Operator/Responsible Authority: CONTRACTOR (T.B.D.)



STORMWATER POLLUTION PREVENTION PLAN

CONSTRUCTION PLANS
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DESIGN: GEV
DESIGNED: MBB
CHECKED: SCG
DATE: 02/08/23
SCALE: N.T.S.
07/29/24
SHEET 3 OF 17
PROJECT NO: 2302

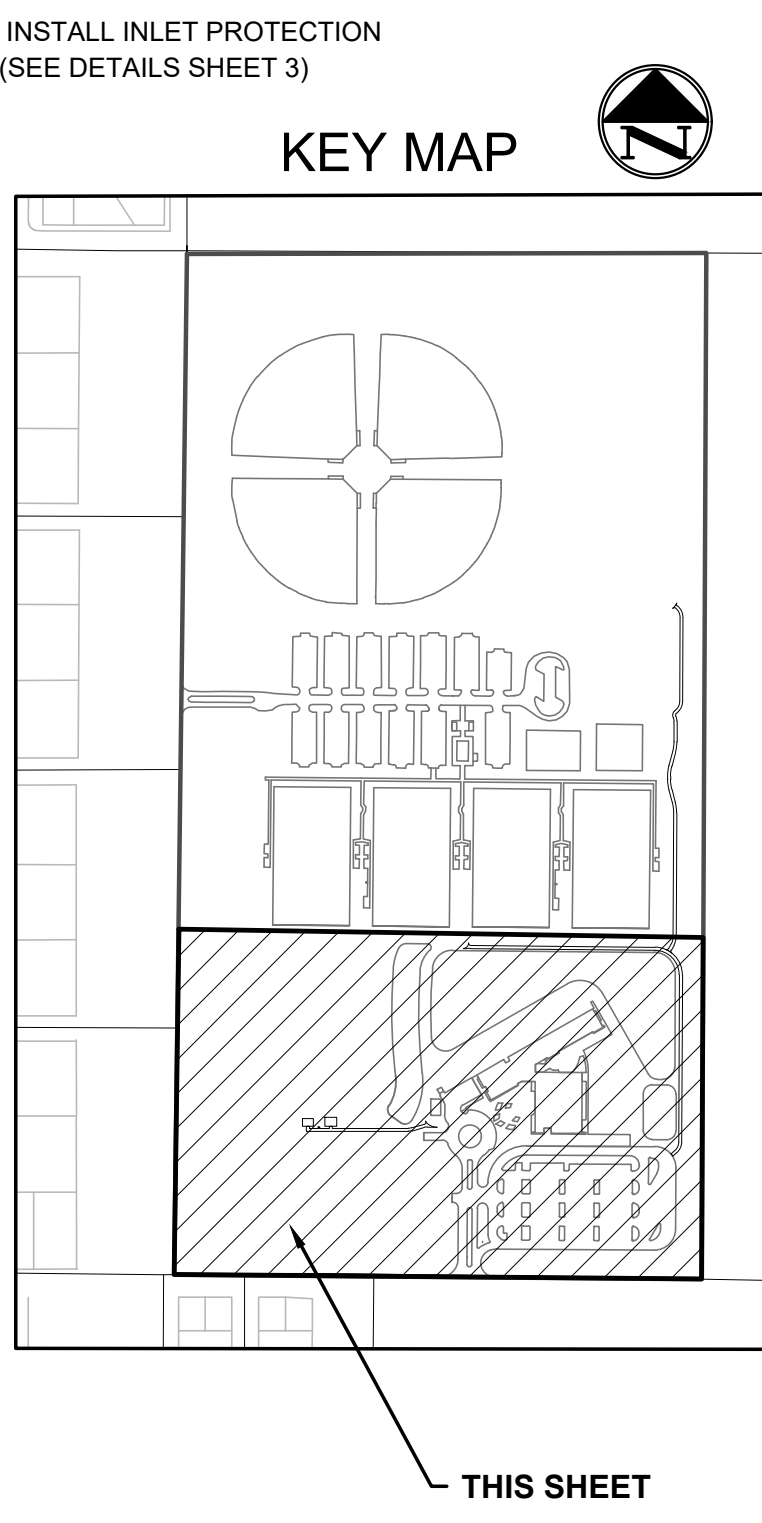
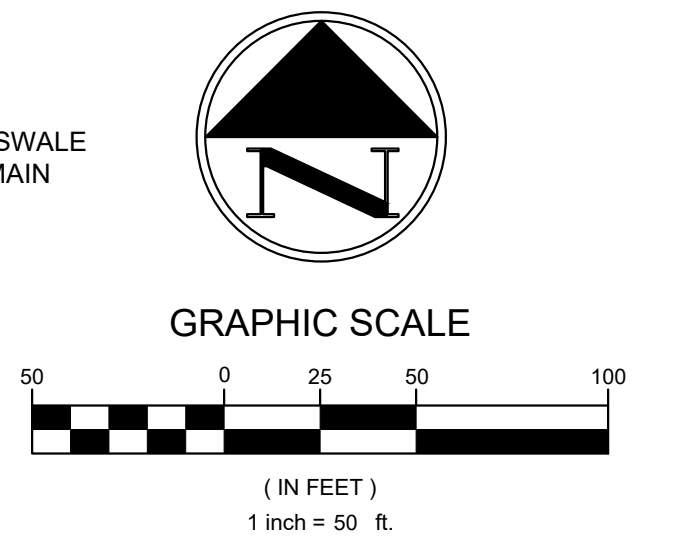
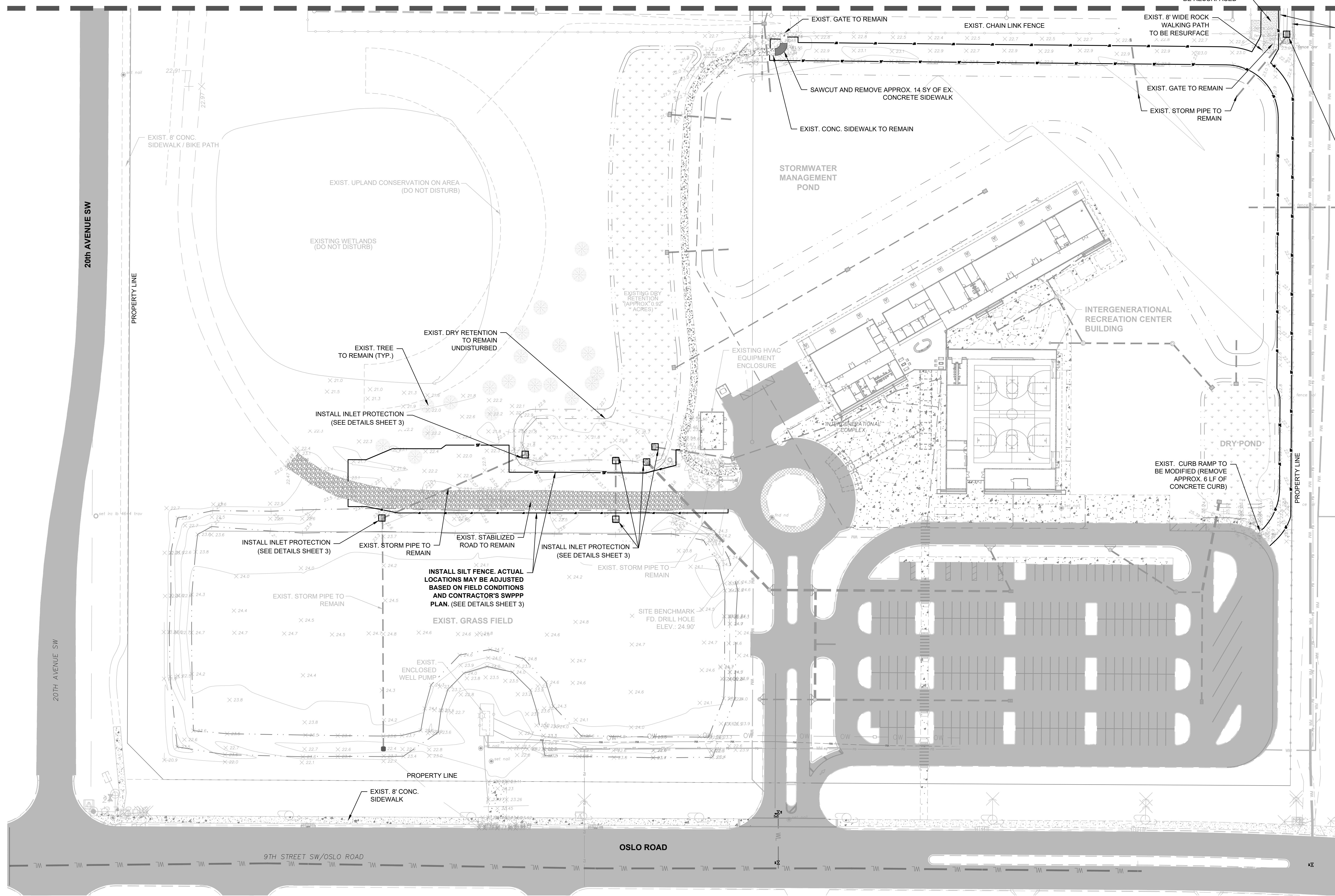
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MATCHLINE SEE SHEET 5



EXISTING CONDITIONS & DEMOLITION PLAN

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CONSTRUCTION PLANS
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 INDIAN RIVER COUNTY FLORIDA

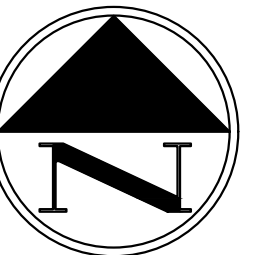
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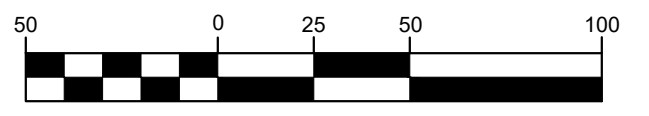
07/29/24
 SHEET 4 OF 17
 PROJECT NO: 2302

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

MATCHLINE SEE SHEET 6

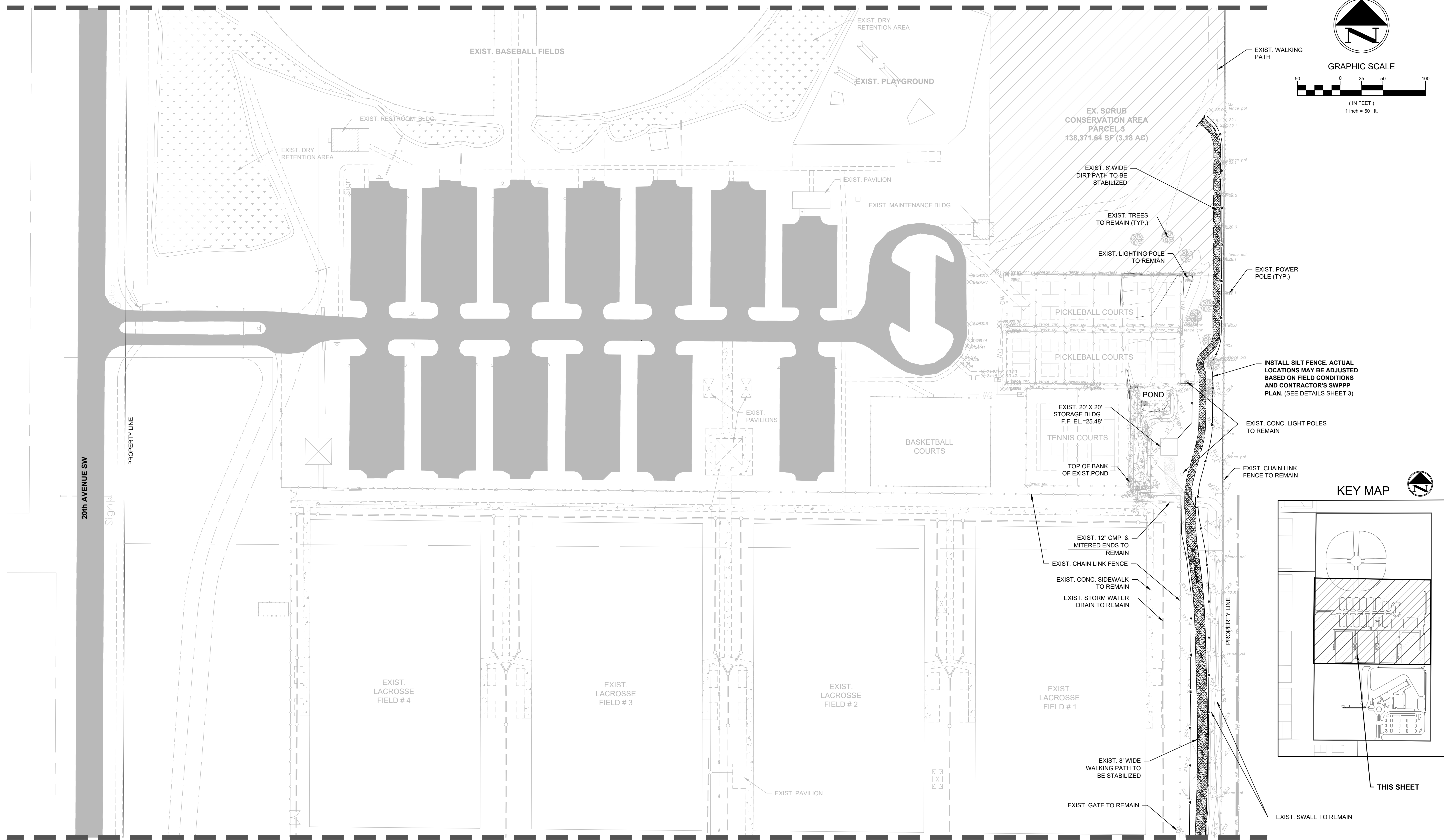


GRAPHIC SCALE



(IN FEET)

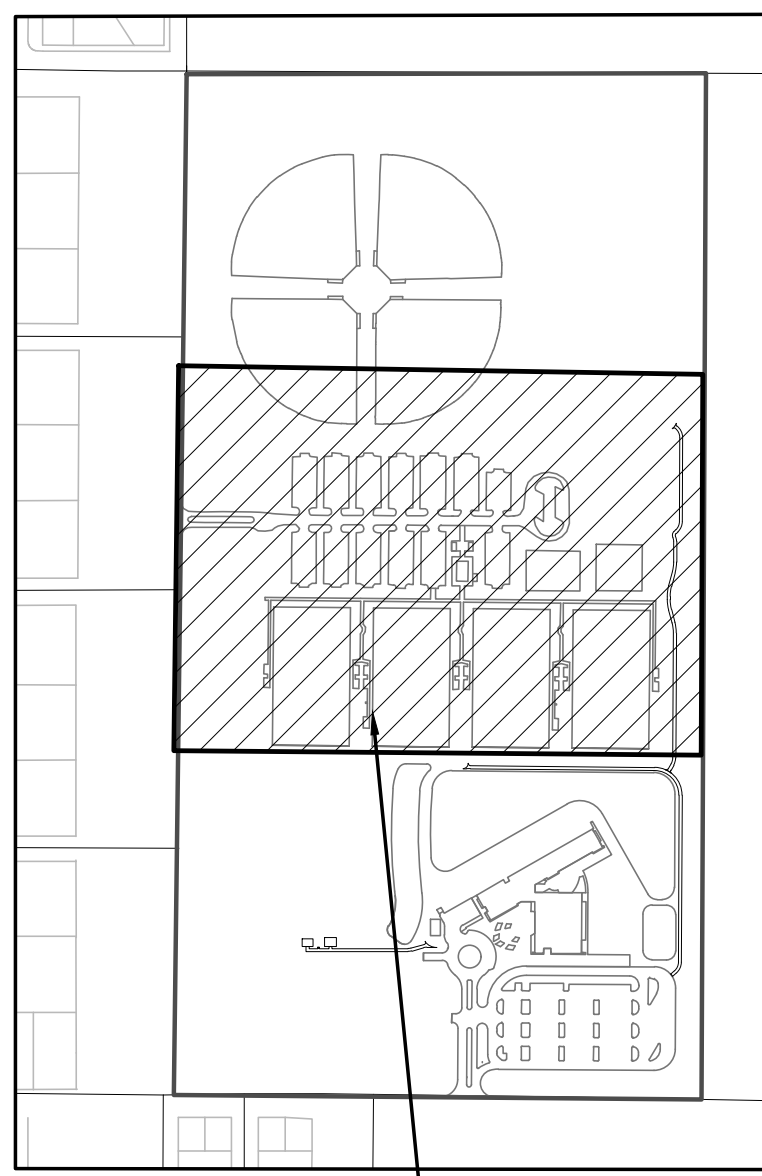
1 inch = 50 ft.



MATCHLINE SEE SHEET 4

EXISTING CONDITIONS & DEMOLITION PLAN

KEY MAP



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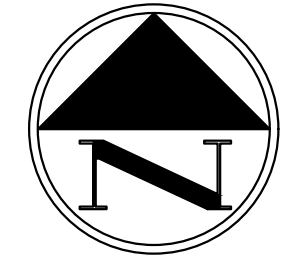
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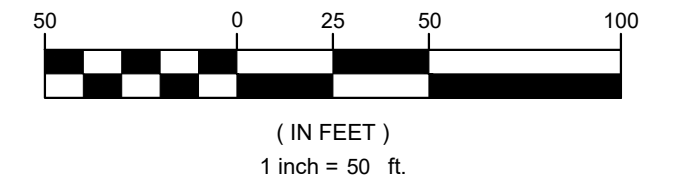
SEAN C. GREEN, P.E. FL #90797

DESIGNED	MBB
CHECKED	SCG
DATE	02/08/23
SCALE	1"=50'
SHEET	5 OF 17
PROJECT NO.	2302

5th STREET SW



GRAPHIC SCALE



I.R.F.W.C.D. SUB LATERAL E-7 CANAL

PROPERTY LINE

EX. SCRUB
CONSERVATION AREA
PARCEL 1
55,814.46 SF (1.28 AC)

EXIST. OUTFALL
STRUCTURE
D-1 (ERP 26066)

EXIST. DRY
RETENTION AREA

EX. SCRUB
CONSERVATION AREA
PARCEL 2
251,360.48 SF (5.77 AC)

20th AVENUE SW

EXIST. BASEBALL FIELDS

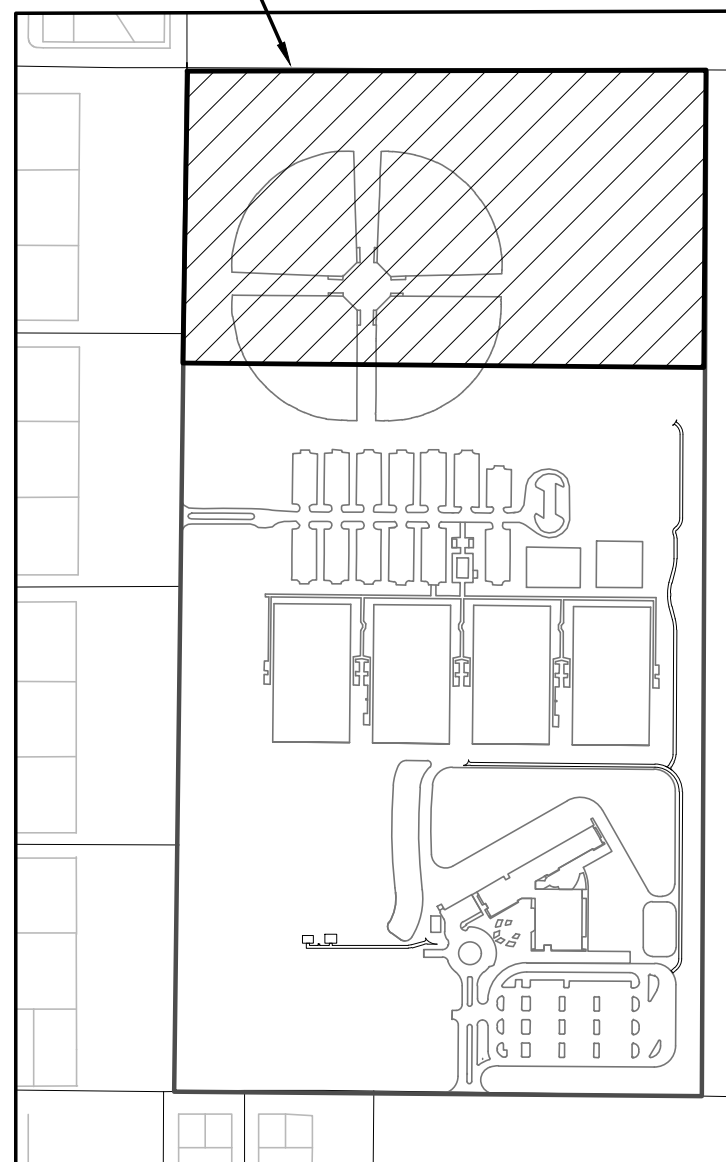
EXIST. DRY
RETENTION AREA

EX. SCRUB
CONSERVATION AREA
PARCEL 3
138,371.64 SF (3.18 AC)

EXIST. WALKING
PATH
EXIST. POWER
POLE (TYP.)

MATCHLINE SEE SHEET 5

THIS SHEET
KEY MAP



**NOTE: NO IMPROVEMENTS PROPOSED IN THE
AREA DEPICTED ON THIS SHEET. AREA
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EXISTING CONDITIONS & DEMOLITION PLAN

M M **MASTELLER & MOLER, INC.**
CONSULTING ENGINEERS

CONSTRUCTION PLANS
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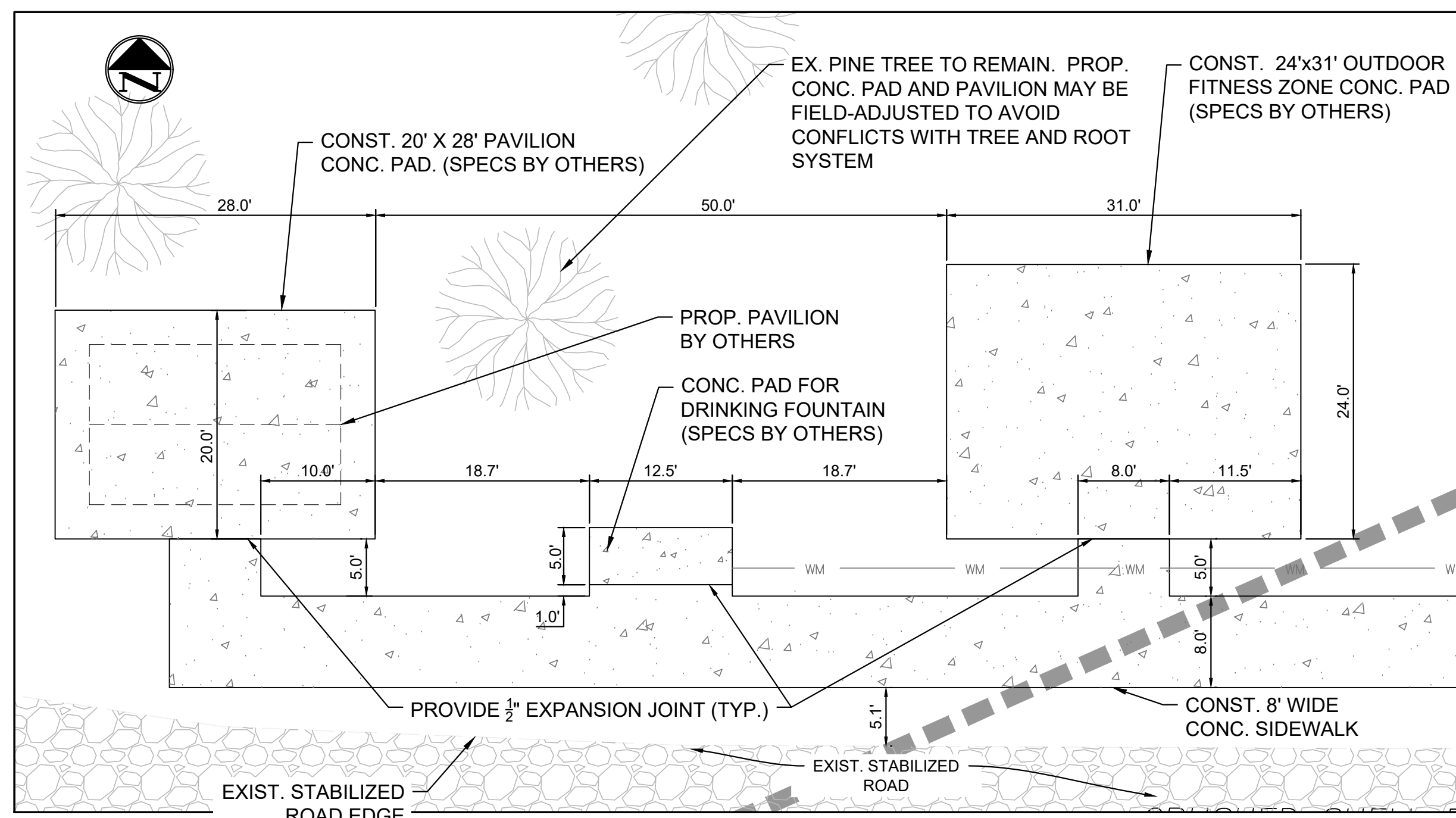
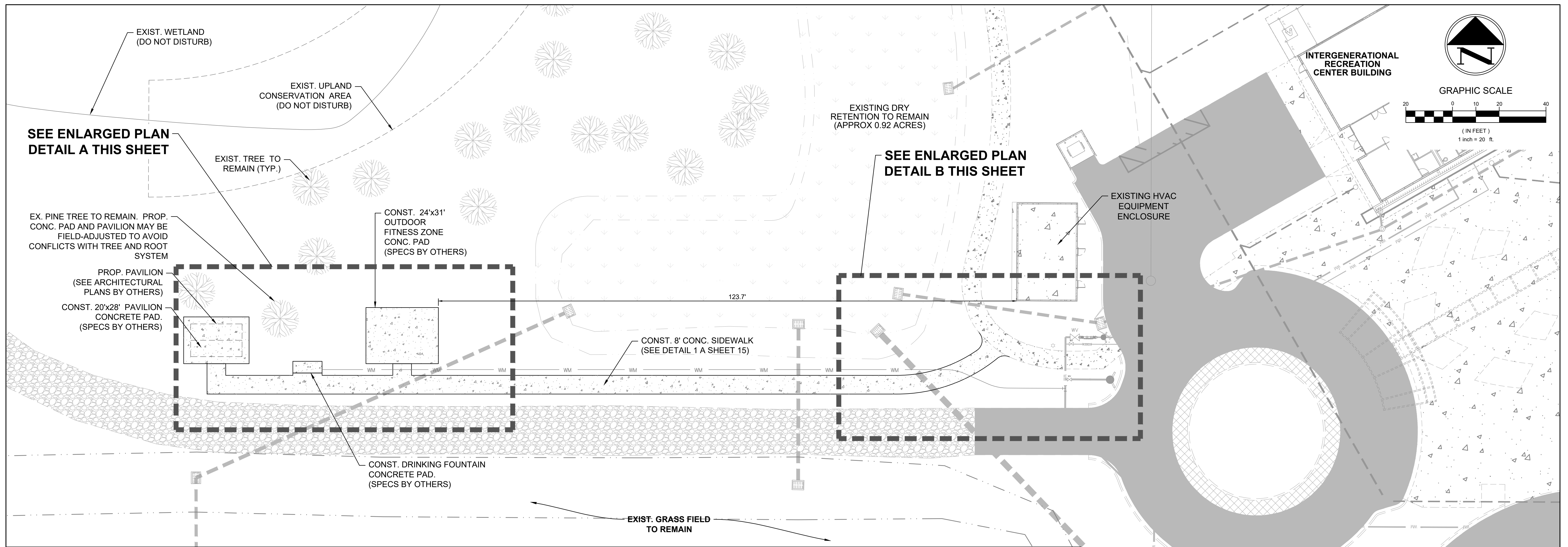
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DESIGNED: MBB
CHECKED: SCG
DATE: 02/08/23
SCALE: 1"=50'
SHEET: 6 OF 17
PROJECT NO.: 2302

07/29/24
SEAN C. GREEN, P.E. FL #90797

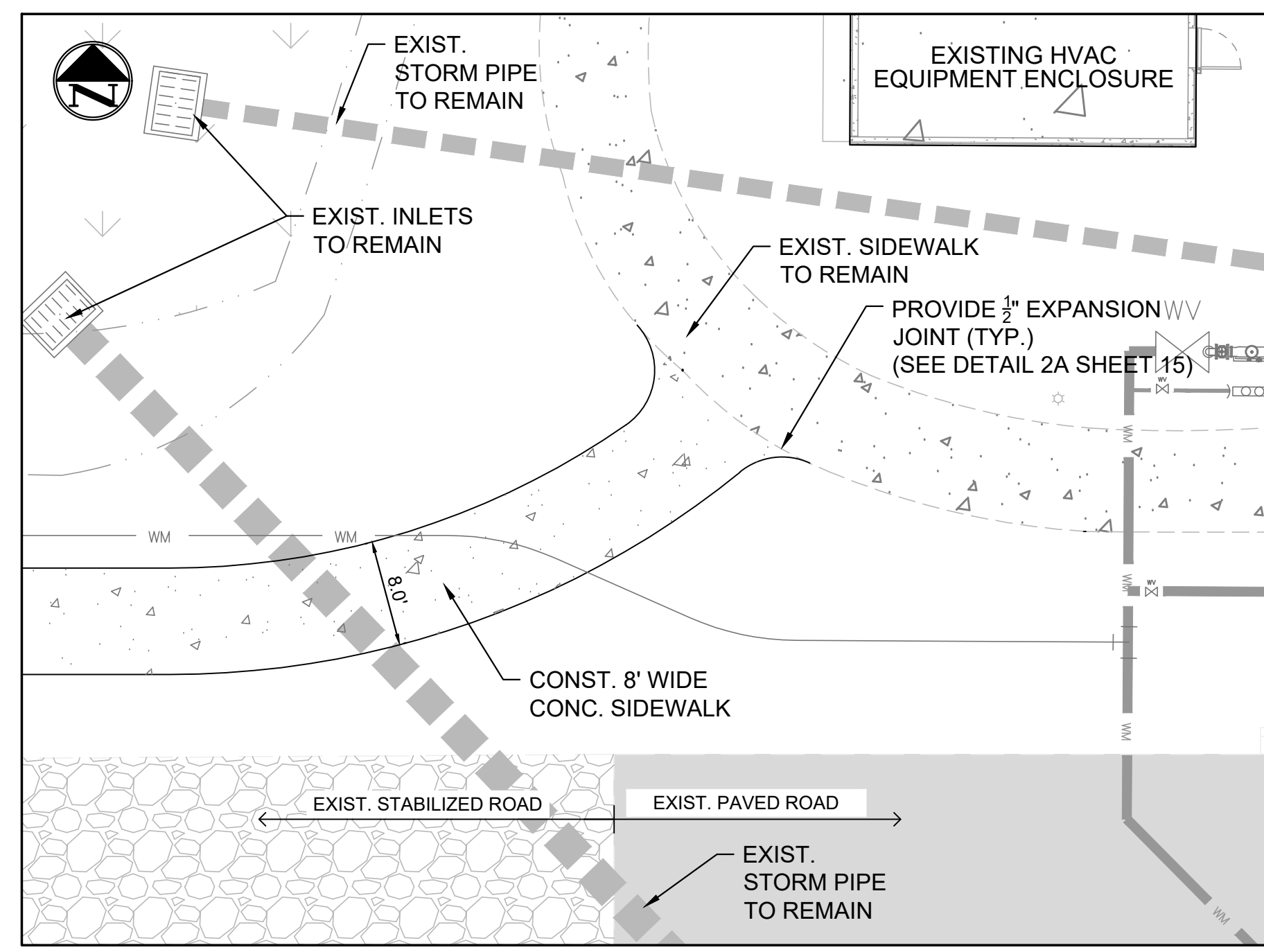
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DETAIL A
SCALE: 1" = 10'



DETAIL B
SCALE: 1" = 10'

PAVILION & FITNESS ZONE SITE PLAN

MASTELLER & MOLER, INC.
CONSULTING ENGINEERS

CONSTRUCTION PLANS

SOUTH COUNTY REGIONAL PARK IMPROVEMENTS

INDIAN RIVER COUNTY PARKS & RECREATION

INDIAN RIVER COUNTY FLORIDA

M MASTELLER & MOLER, INC.
CONSULTING ENGINEERS

CERTIFICATE OF AUTHORIZATION NUMBER 4204
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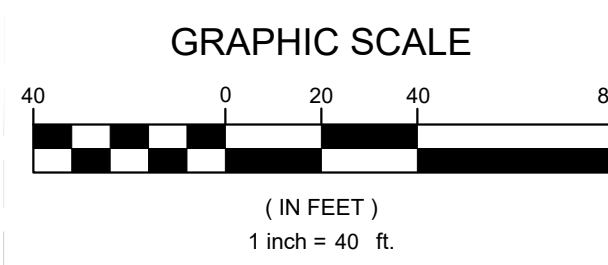
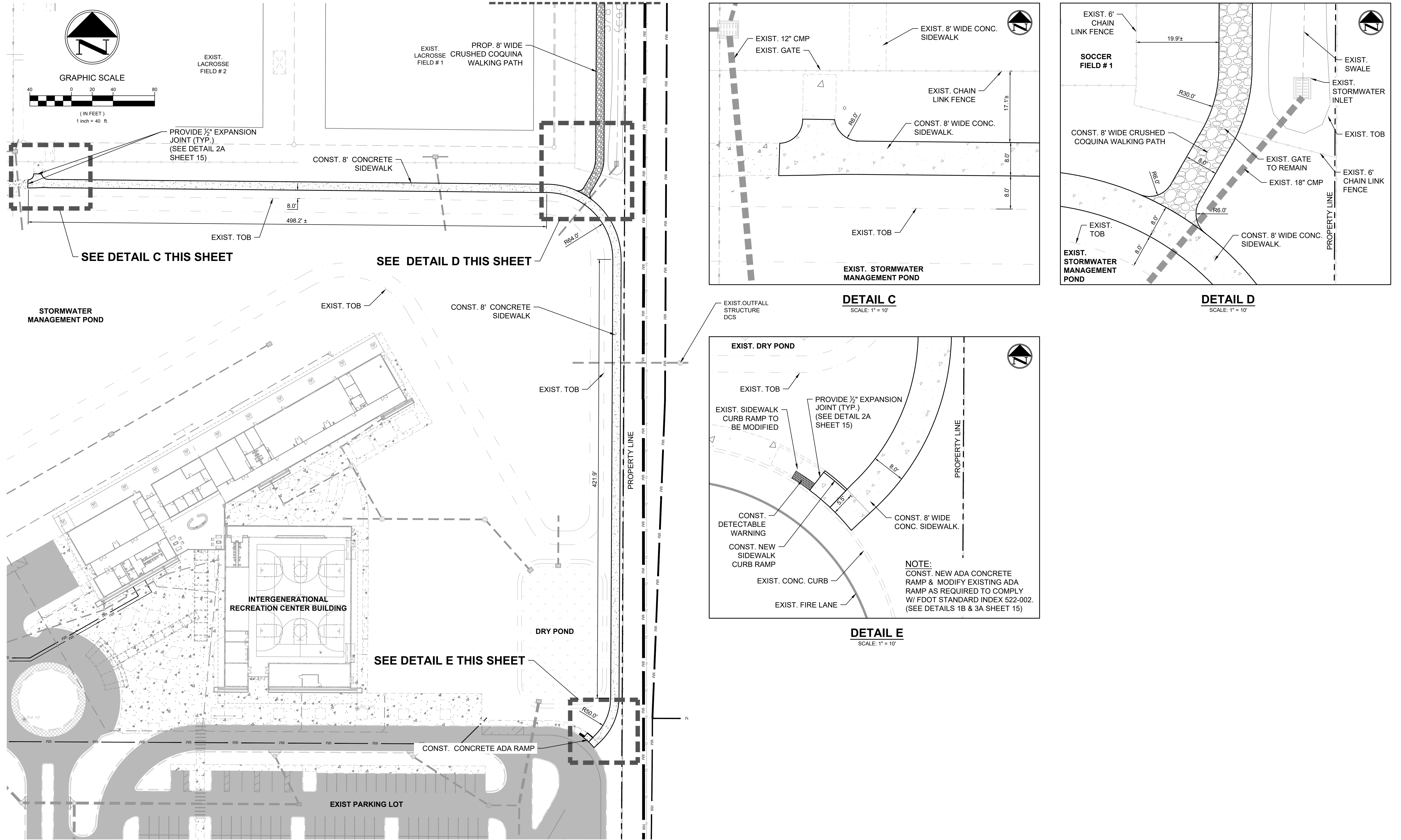
DRAWN	GEV
DESIGNED	MBB
CHECKED	SCG
DATE	02/08/23
SCALE	1"=20'
SHEET	8 OF 17
PROJECT NO.	2302

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NO.	DATE	DESCRIPTION	DR/APP
2	7/23/24	REVISED FOR BIDDING	GEV/SCG
1	4/30/24	REVISED PER TRC LETTER 1/8/24	SCG/SCG

REVISIONS

MATCHLINE (SEE SHEET 10)



PROVIDE 1/2" EXPANSION JOINT (TYP.) (SEE DETAIL 2A SHEET 15)

SEE DETAIL C THIS SHEET

SEE DETAIL D THIS SHEET

SEE DETAIL E THIS SHEET

DETAIL C
SCALE: 1" = 10'

DETAIL D
SCALE: 1" = 10'

DETAIL E
SCALE: 1" = 10'

NOTE:
CONST. NEW ADA CONCRETE RAMP & MODIFY EXISTING ADA RAMP AS REQUIRED TO COMPLY W/ FDOT STANDARD INDEX 522-002. (SEE DETAILS 1B & 3A SHEET 15)

EAST SIDEWALK SITE PLAN

NO.	DATE	DESCRIPTION	SCG/SCG	DR/APP
1	4/30/24	REVISED PER TRC LETTER 1/8/24	SCG/SCG	
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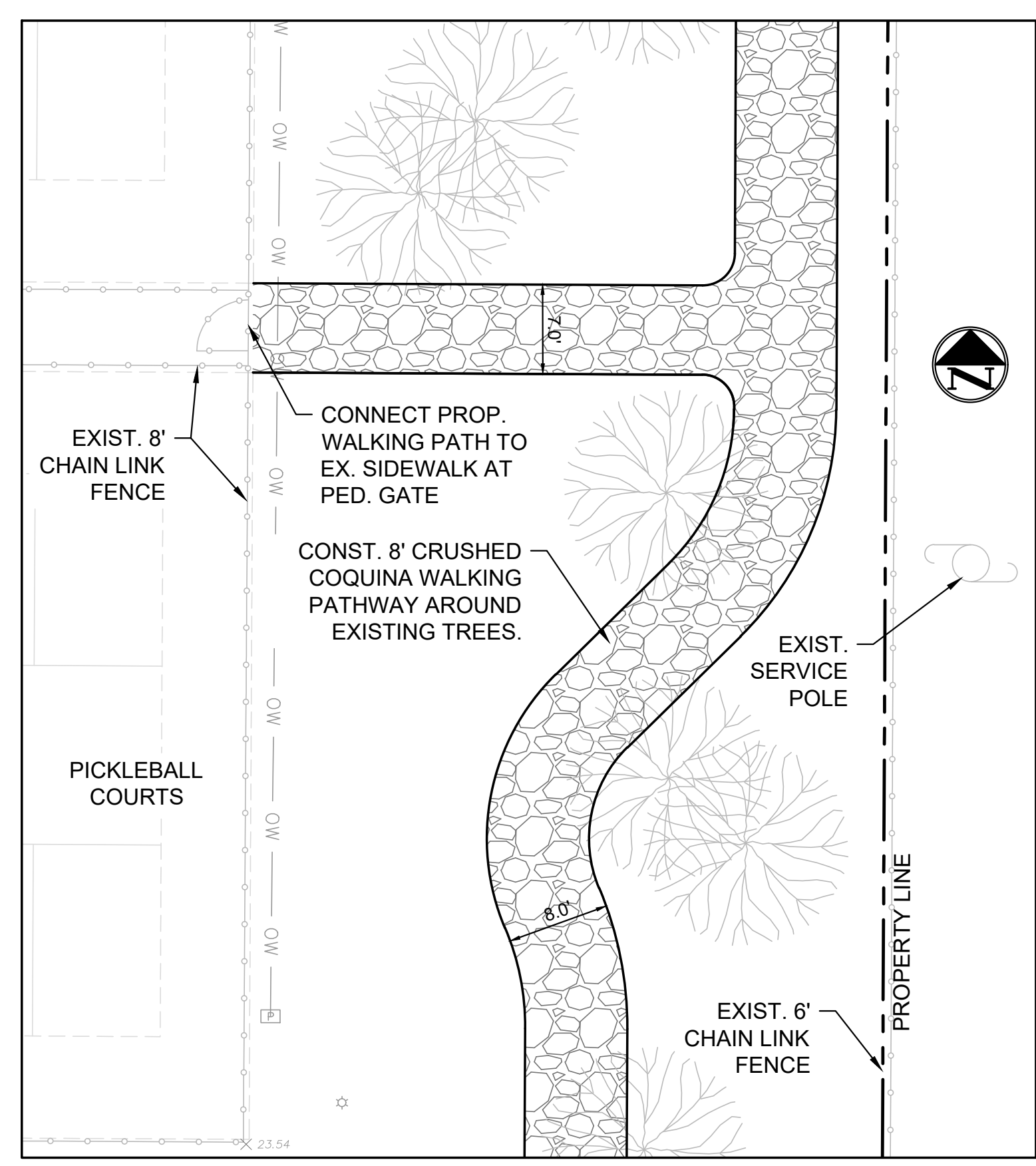
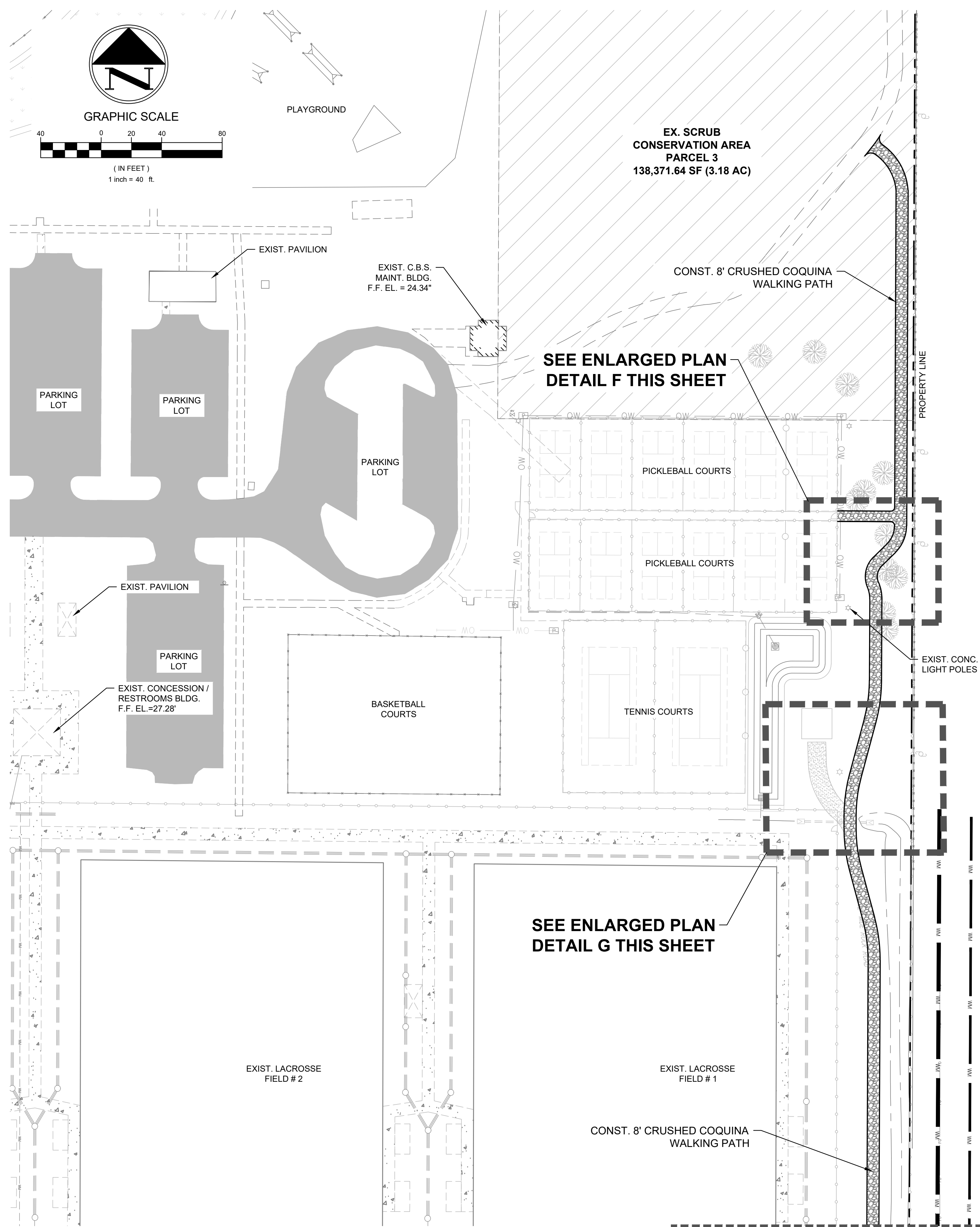
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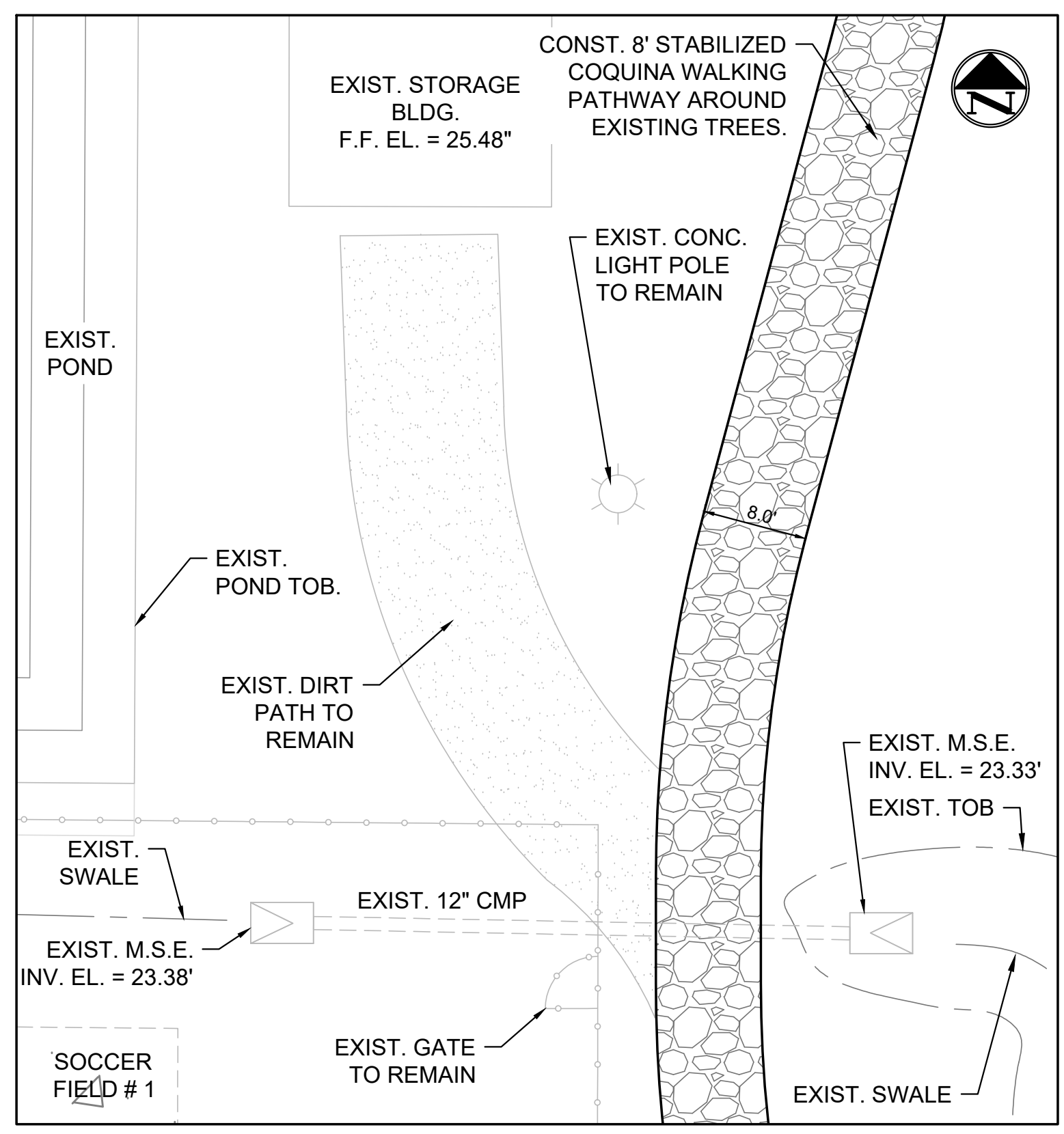
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CHECKED	SCG
DATE	02/08/23
SCALE	AS NOTED
SHEET	9 OF 17
PROJECT NO.	2302



DETAIL F
SCALE: 1" = 10'



DETAIL G
SCALE: 1" = 10'

MATCHLINE (SEE SHEET 9) NORTH WALKING PATH SITE PLAN

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INDIAN RIVER COUNTY PARKS & RECREATION
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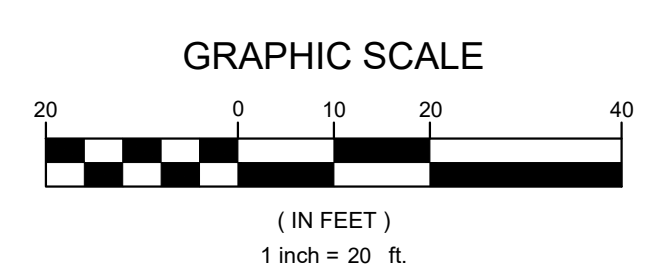
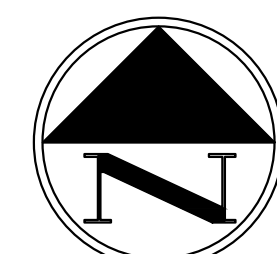
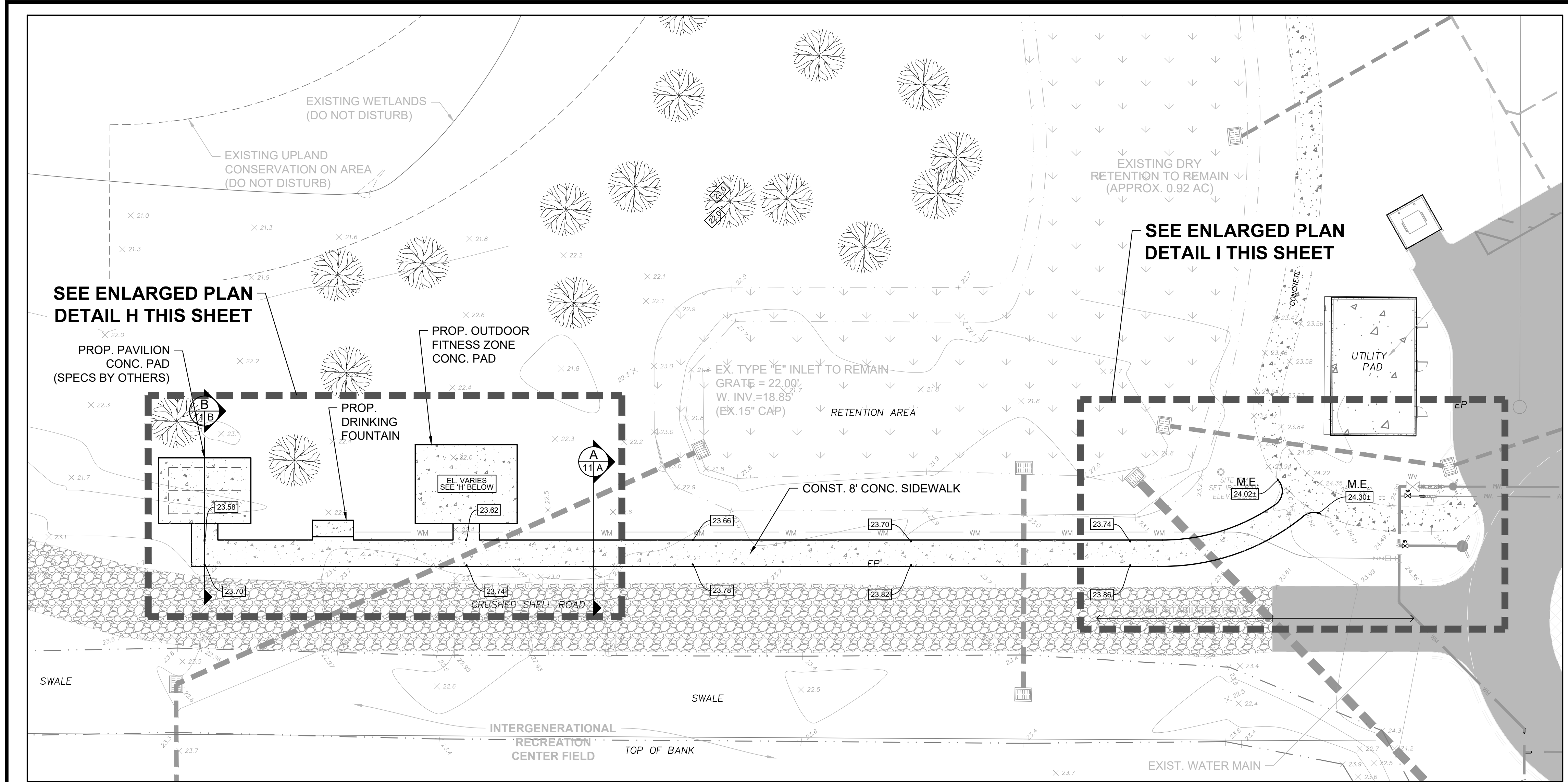
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SCALE	AS NOTED
SHEET	10 OF 17
PROJECT NO.	2302

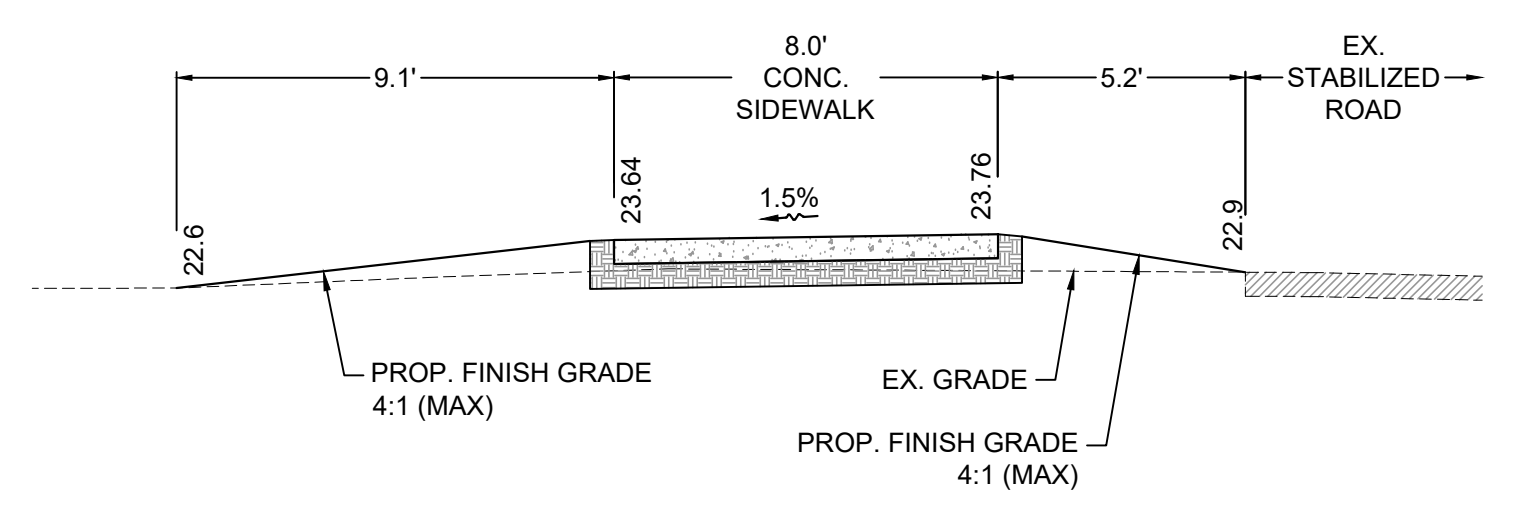
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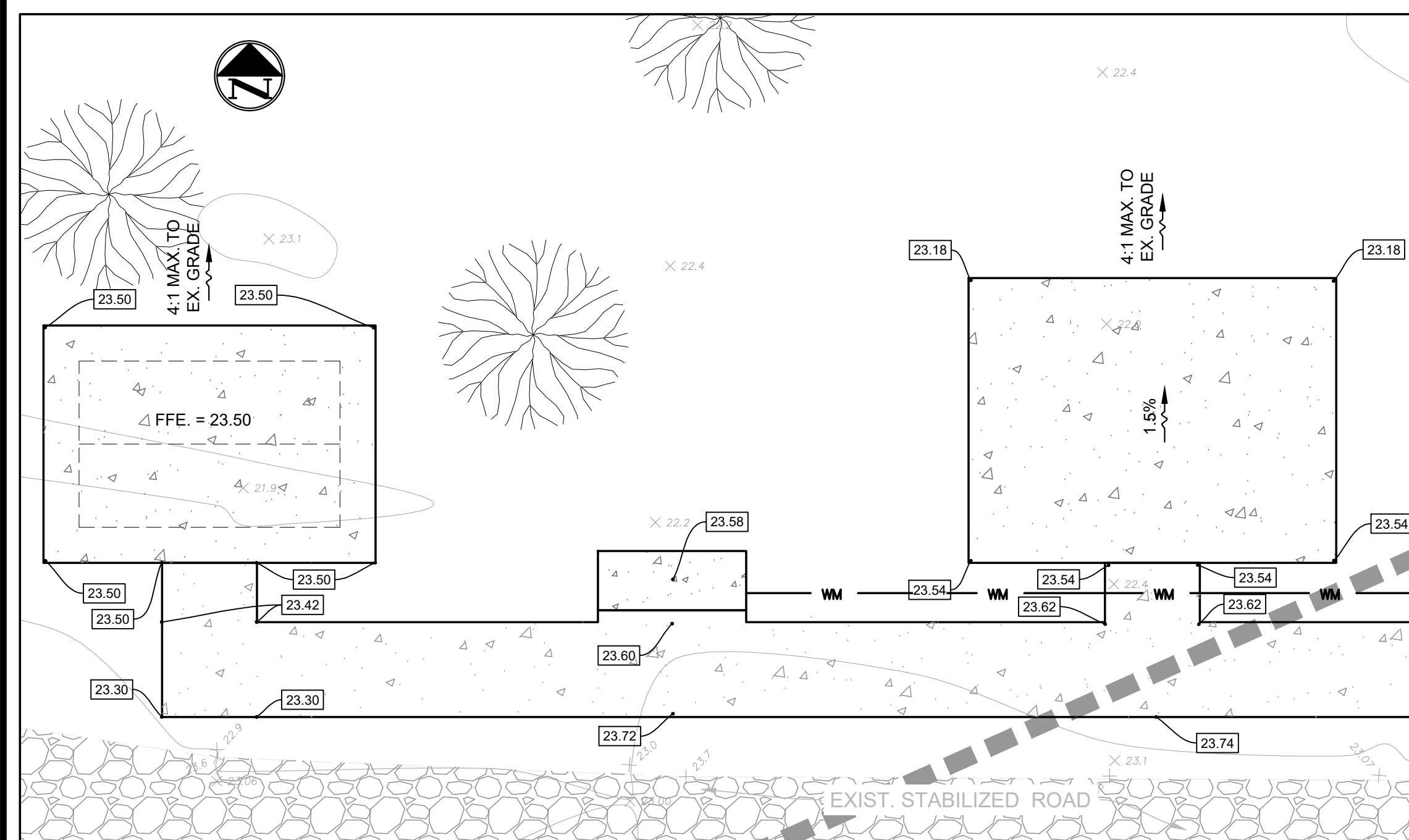


SEE ENLARGED PLAN
DETAIL H THIS SHEET

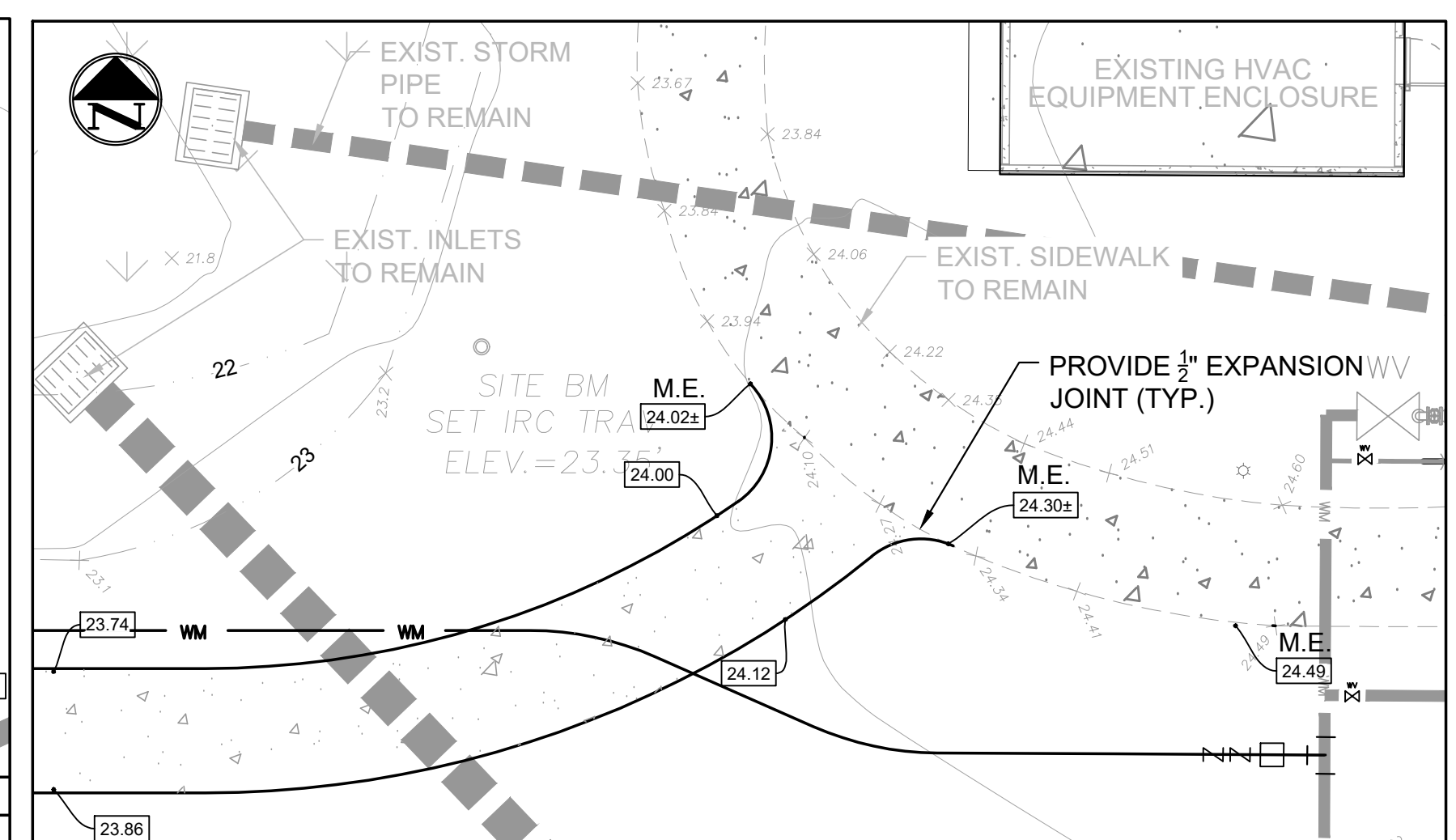
SEE ENLARGED PLAN
DETAIL I THIS SHEET



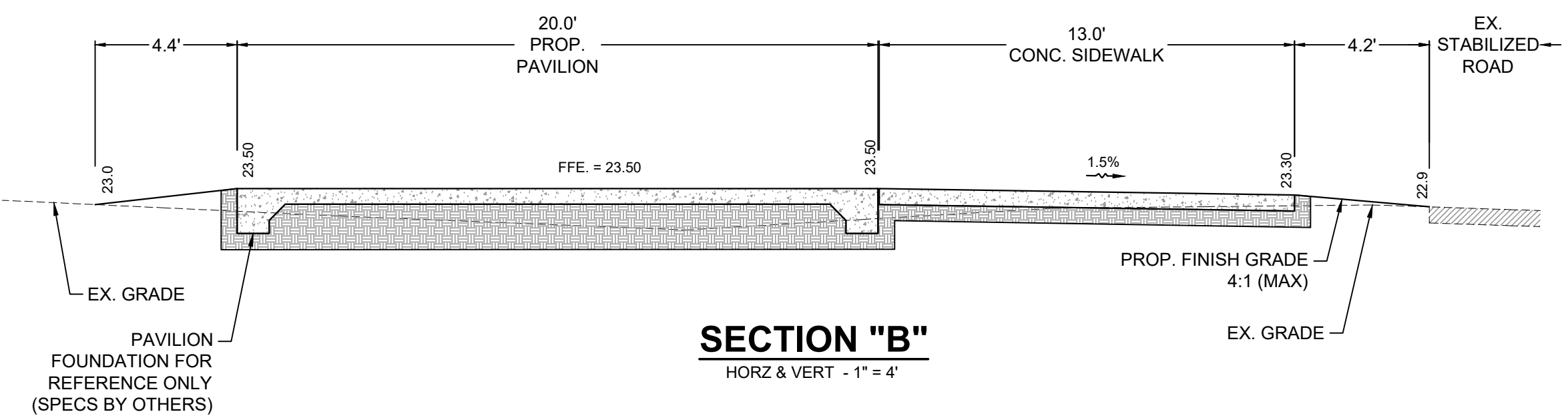
SECTION "A"
HORZ & VERT - 1" = 4"



DETAIL H
SCALE: 1" = 10'



DETAIL I
SCALE: 1" = 10'



SECTION "B"
HORZ & VERT - 1" = 4"

- PAVING & GRADING NOTES:**
1. ALL AREAS DISTURBED DURING CONSTRUCTION, WHETHER PAVED OR UNPAVED, SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING.
 2. ALL SLOPES 6H:1V OR STEEPER SHALL BE STABILIZED WITH SOD.
 3. SIDEWALK CROSS SLOPES SHALL BE NOT GREATER THAN 2%.

PAVILION & FITNESS ZONE GRADING PLAN

NO.	DATE	DESCRIPTION	DR/APP
2	7/23/24	REVISED FOR BIDDING	GEV/SCG
1	4/30/24	REVISED PER TRC LETTER 1/8/24	SCG/SCG

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CONSTRUCTION PLANS

SOUTH COUNTY REGIONAL PARK IMPROVEMENTS

INDIAN RIVER COUNTY PARKS & RECREATION

INDIAN RIVER COUNTY FLORIDA

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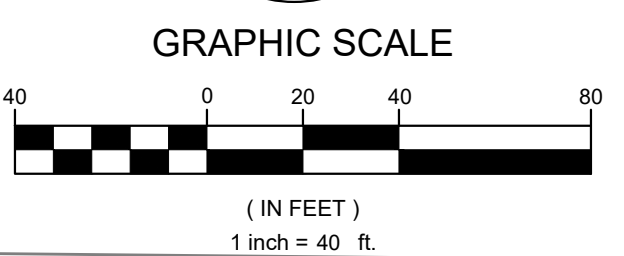
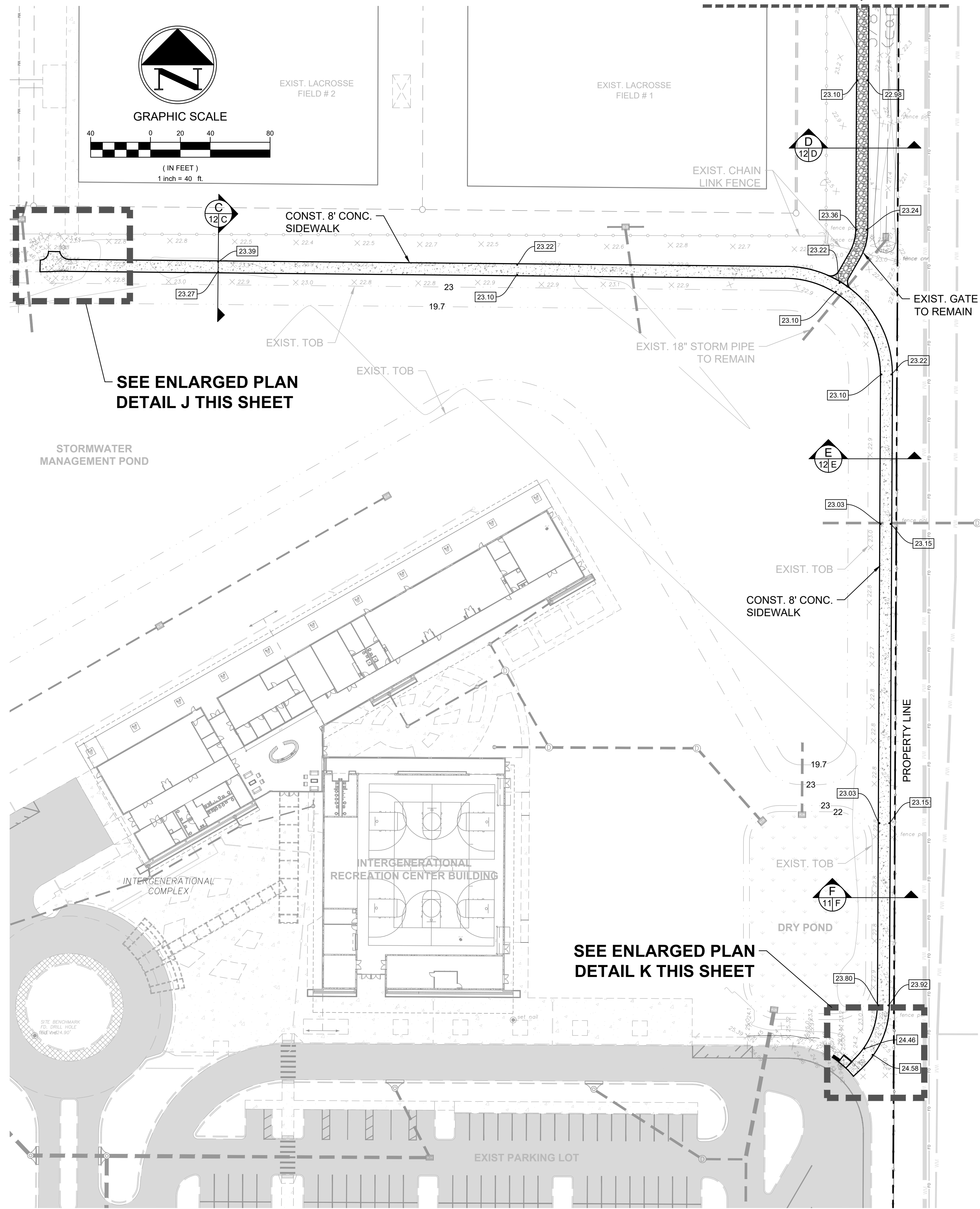
07/29/24

SHEET 11 OF 17

PROJECT NO: 2302

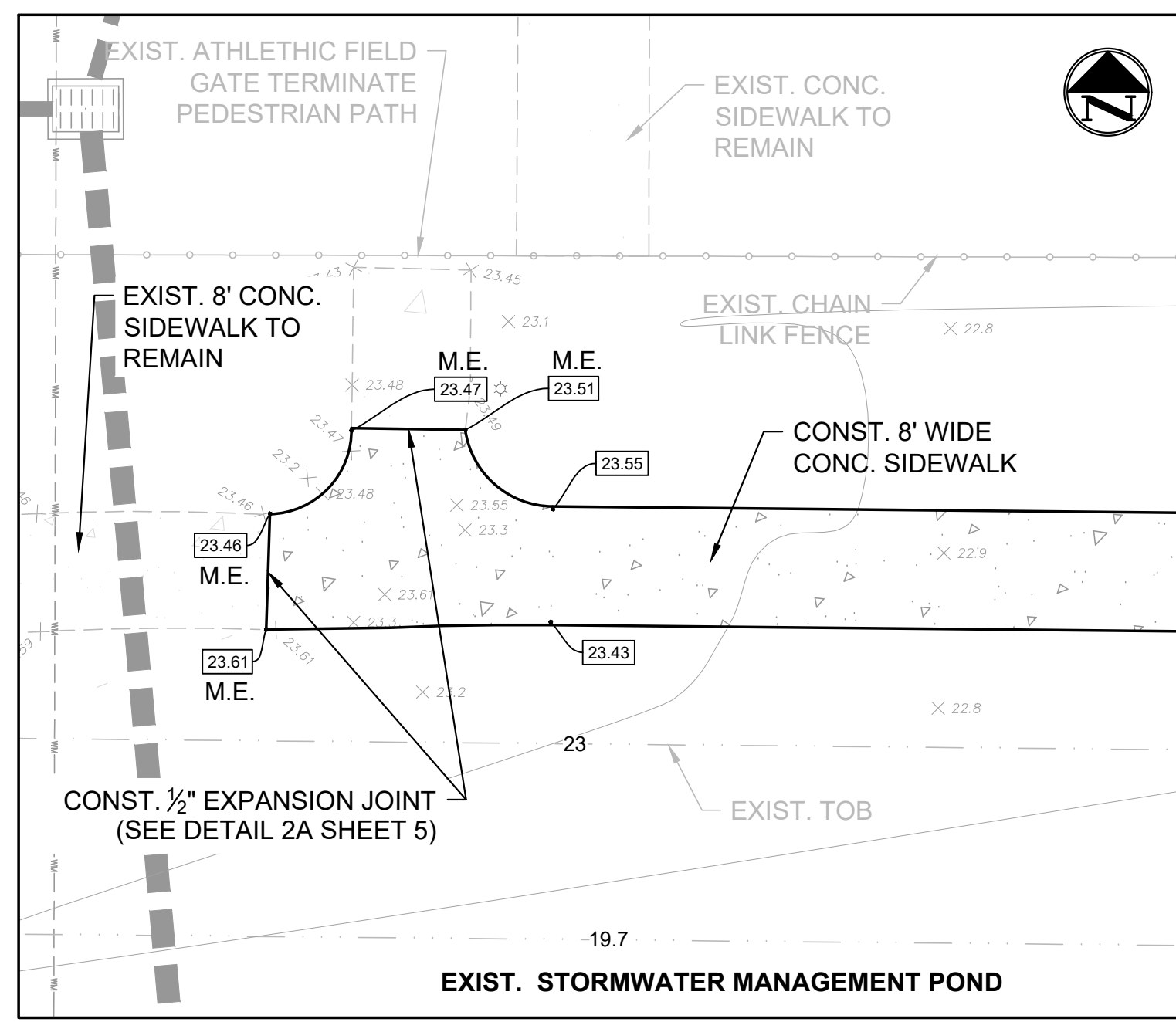
SEAN C. GREEN, P.E. FL #90797

MATCHLINE (SEE SHEET 13)

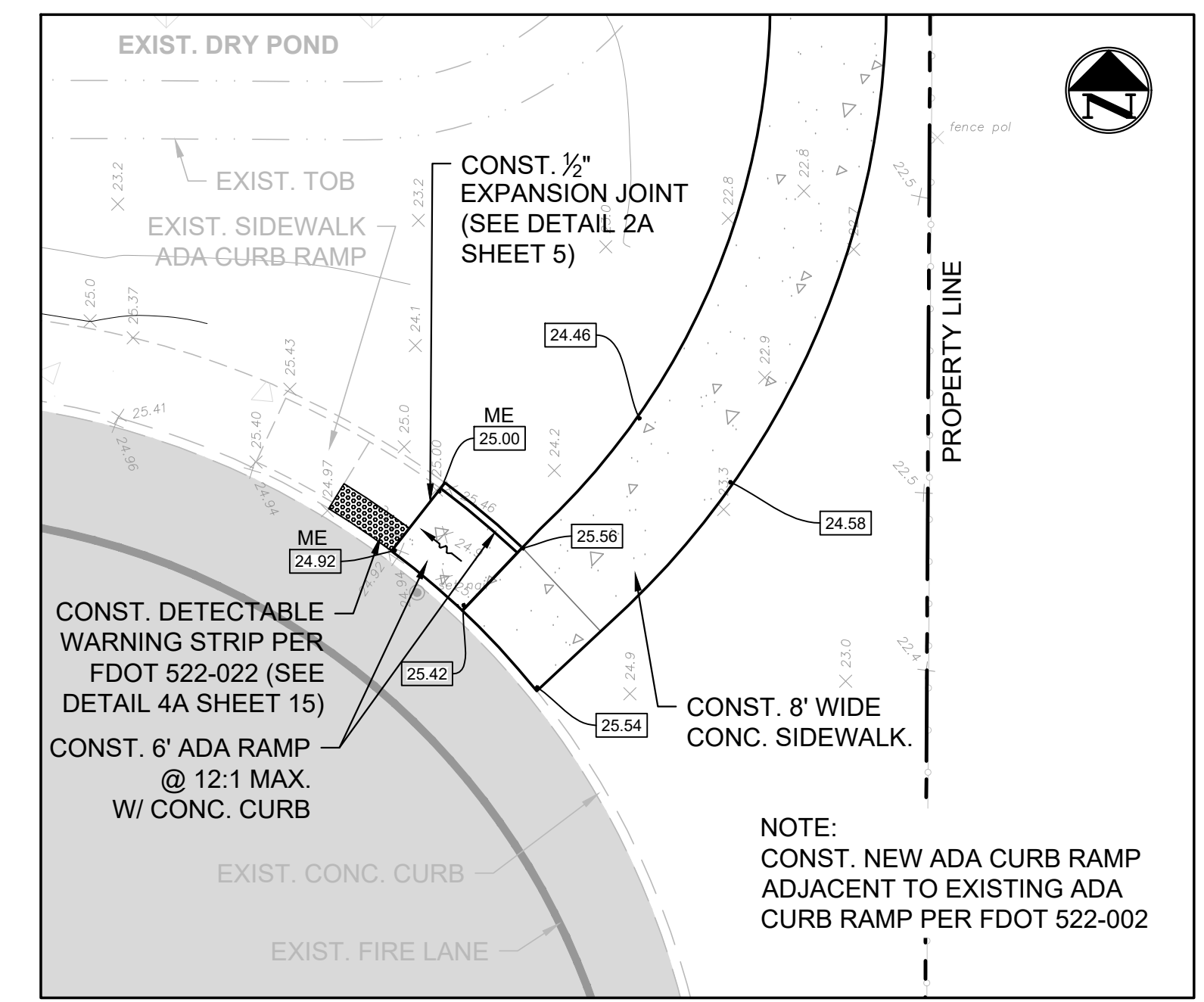


SEE ENLARGED PLAN
DETAIL J THIS SHEET

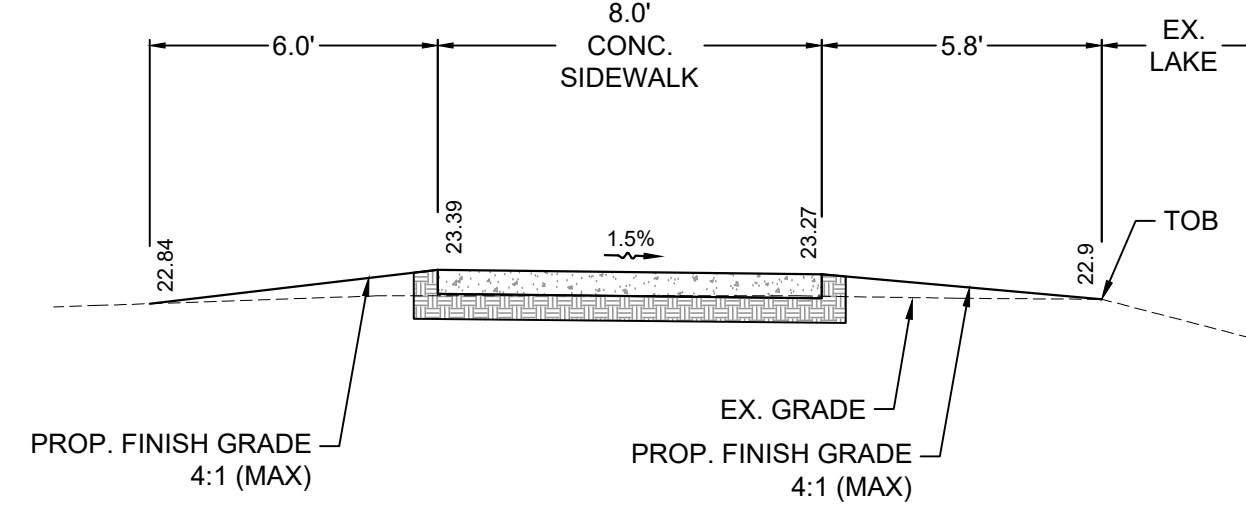
SEE ENLARGED PLAN
DETAIL K THIS SHEET



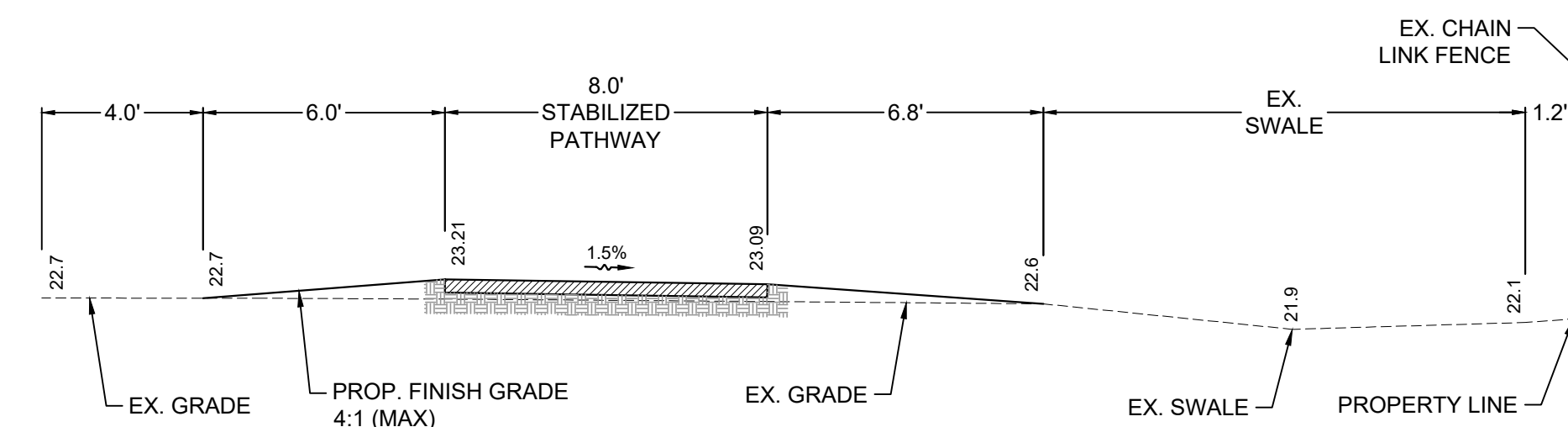
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SCALE: 1" = 10'



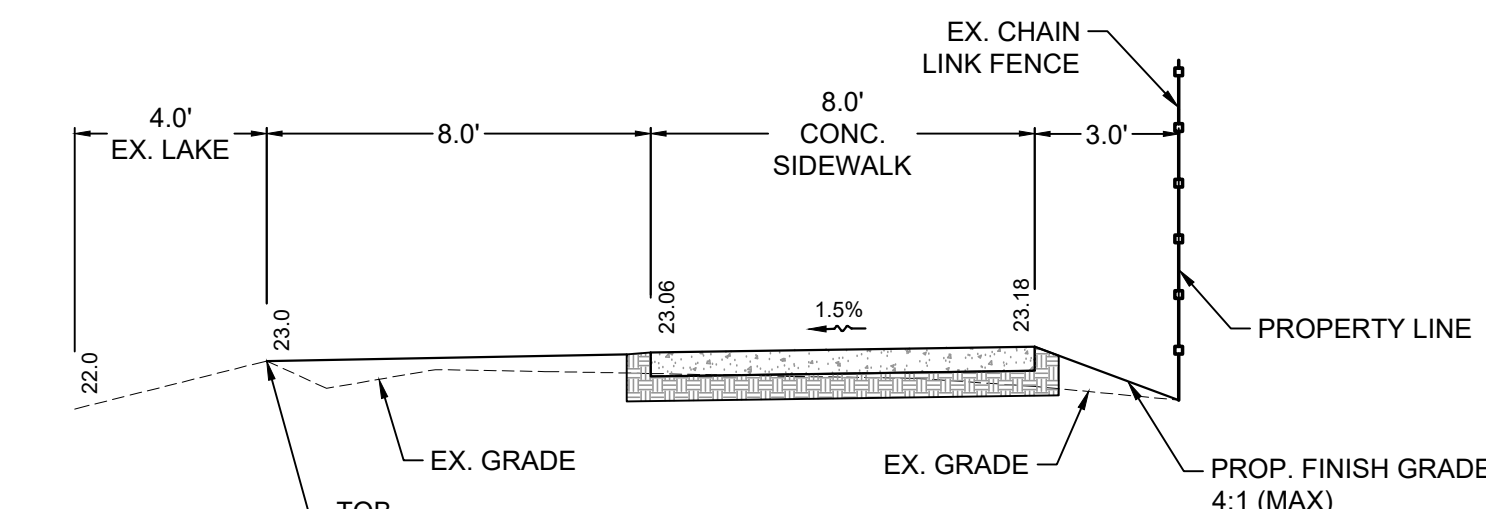
DETAIL K
SCALE: 1" = 10'



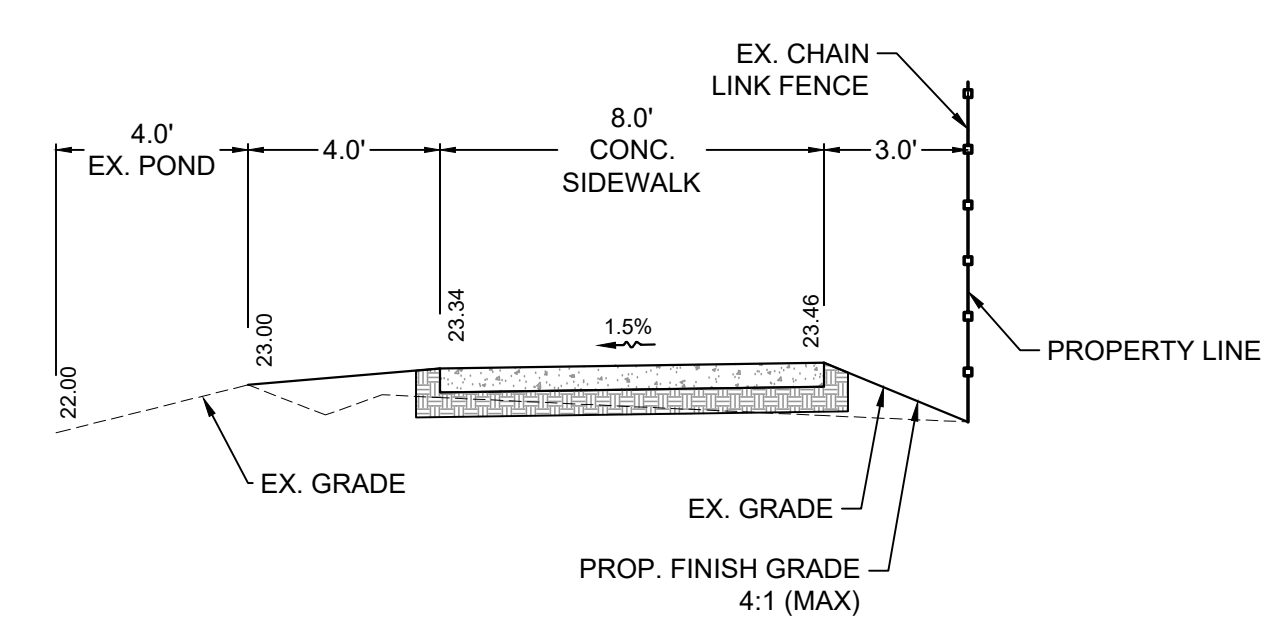
SECTION "C"
HORZ & VERT - 1" = 4'



SECTION "D"
HORZ & VERT - 1" = 4'



SECTION "E"
HORZ & VERT - 1" = 4'



SECTION "F"
HORZ & VERT - 1" = 4'

EAST SIDEWALK GRADING PLAN

M M MASTELLER & MOLER, INC.
CONSULTING ENGINEERS

CONSTRUCTION PLANS
SOUTH COUNTY REGIONAL PARK IMPROVEMENTS
INDIAN RIVER COUNTY PARKS & RECREATION
INDIAN RIVER COUNTY FLORIDA

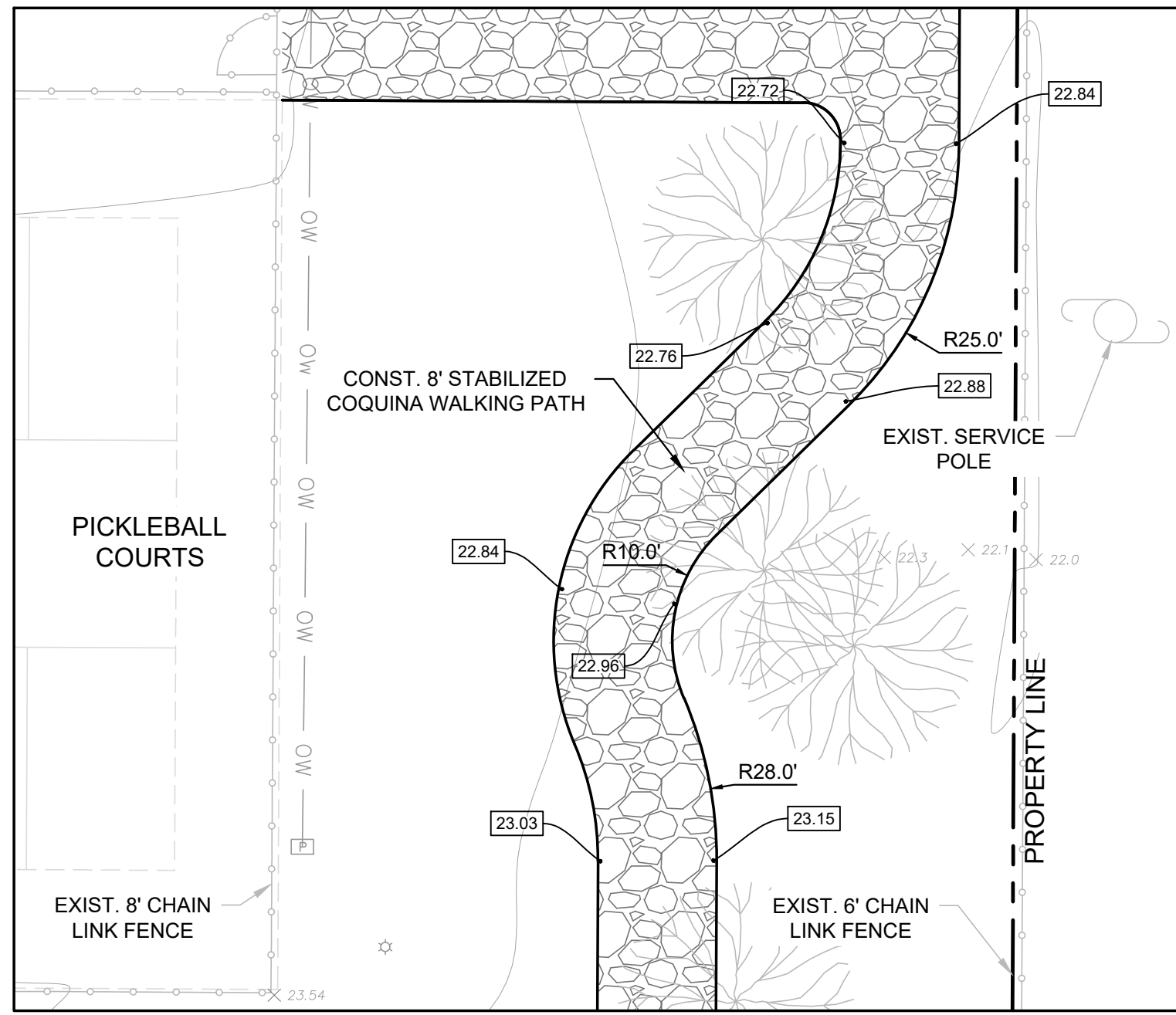
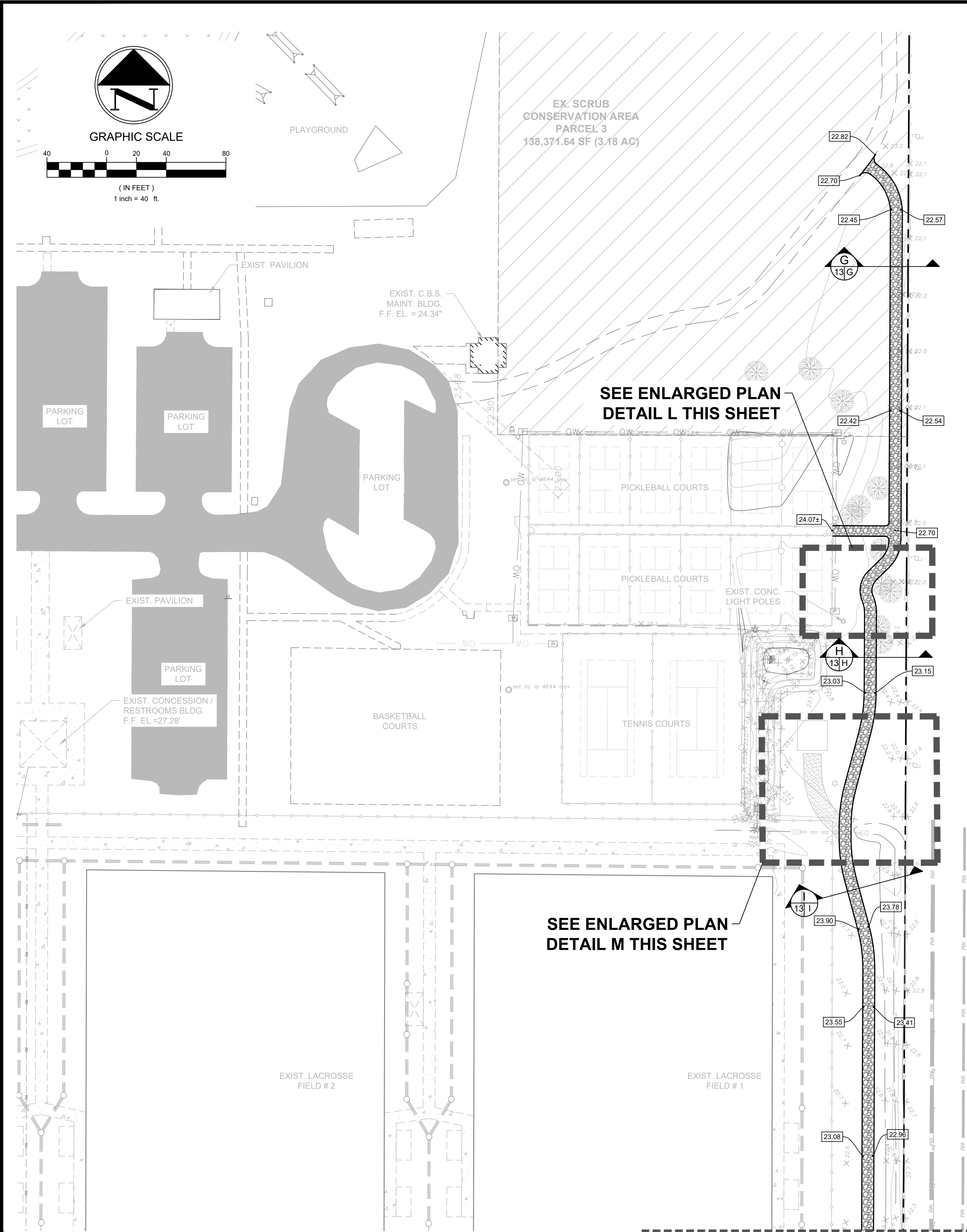
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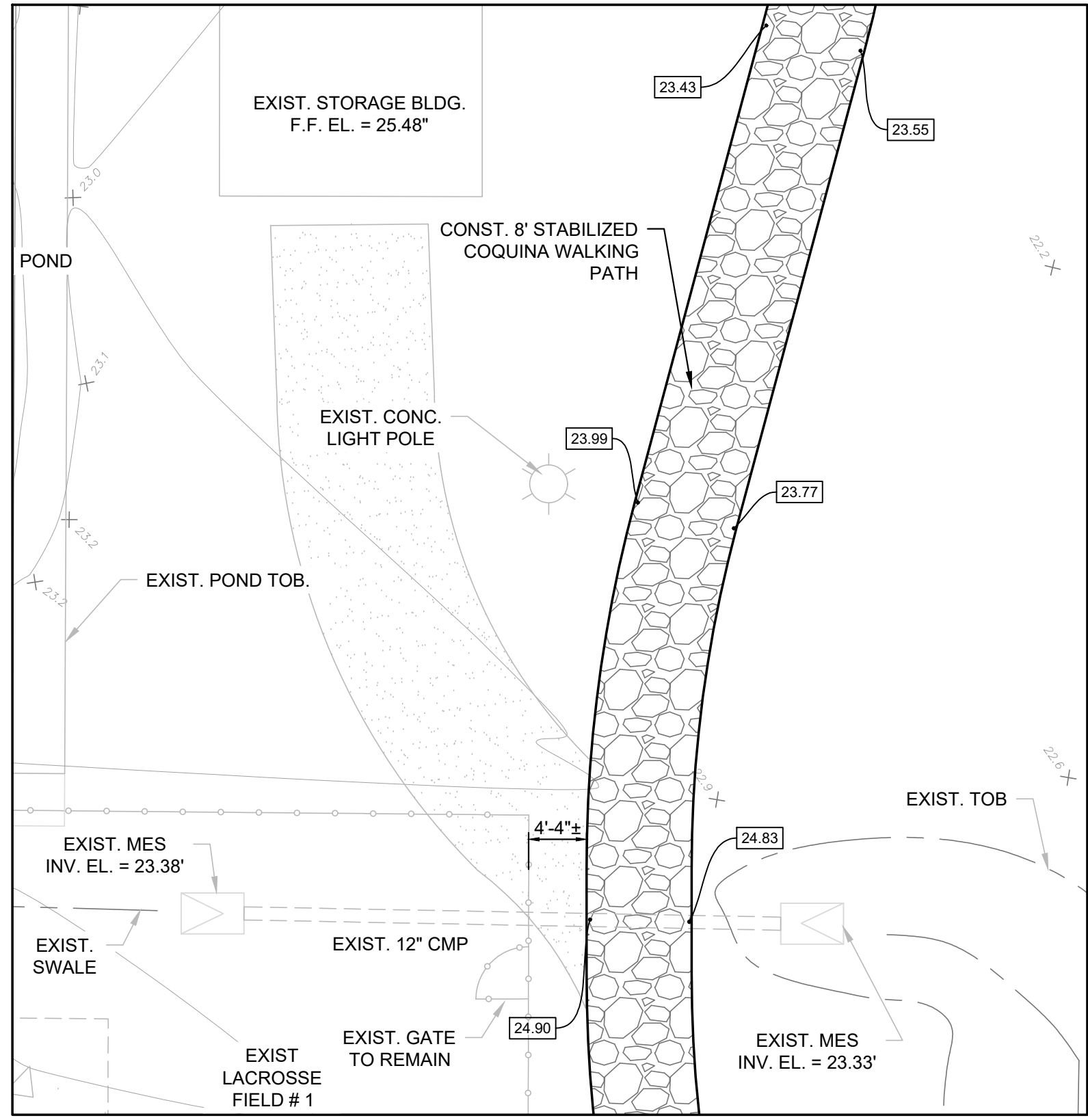
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DESIGNED: MBB
CHECKED: SCG
DATE: 02/08/23
SCALE: AS NOTED
SHEET 12 OF 17
PROJECT NO: 2302

NO.	DATE	DESCRIPTION	SCG/SCG	DR/APP
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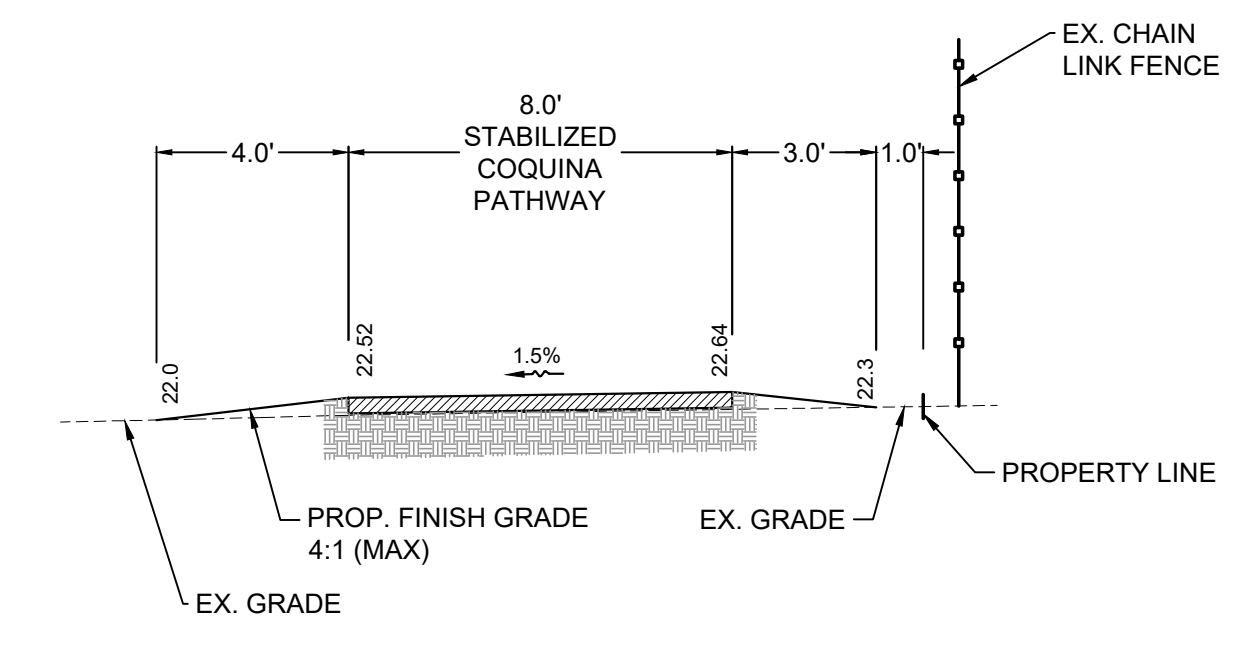
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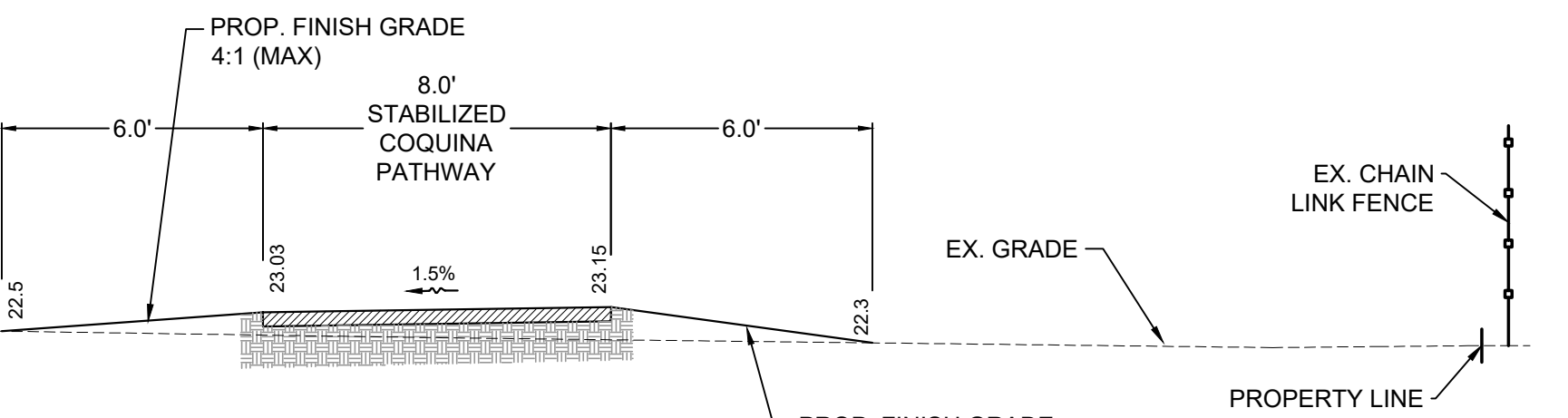
DETAIL L
SCALE: 1" = 10'



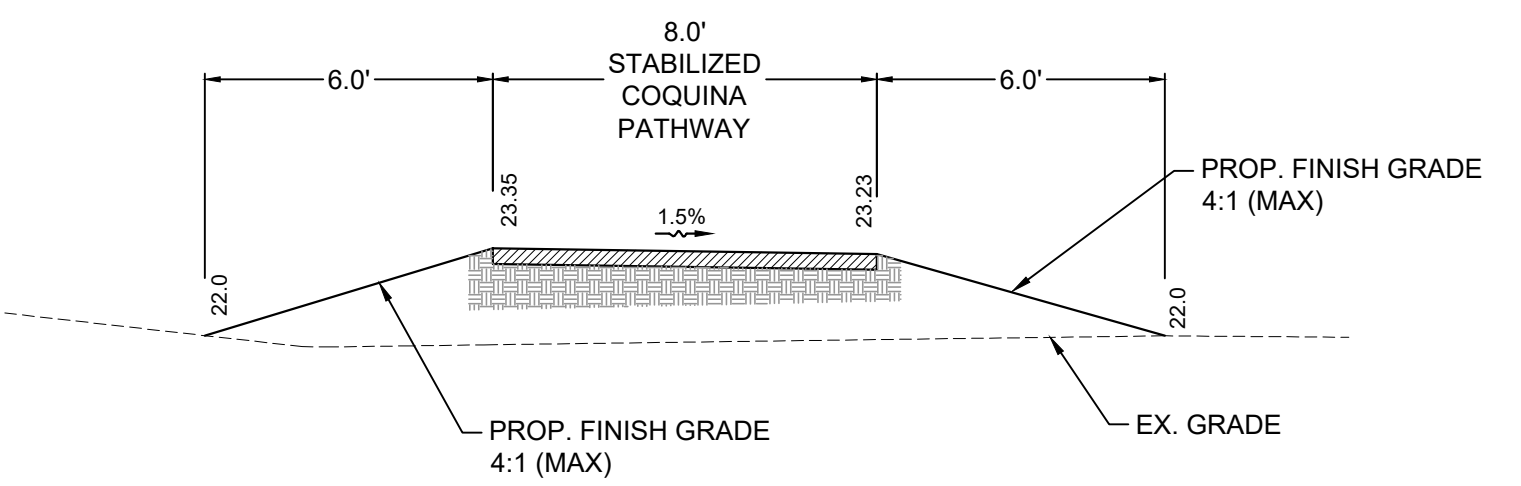
DETAIL M
SCALE: 1" = 10'



SECTION "G"
HORZ & VERT - 1" = 4'



SECTION "H"
HORZ & VERT - 1" = 4'



SECTION "I"
HORZ & VERT - 1" = 4'

MATCHLINE (SEE SHEET 12) NORTH SIDEWALK GRADING PLAN

NO.	DATE	DESCRIPTION	DR/APP
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CONSTRUCTION PLANS

SOUTH COUNTY REGIONAL PARK IMPROVEMENTS

INDIAN RIVER COUNTY PARKS & RECREATION

INDIAN RIVER COUNTY FLORIDA

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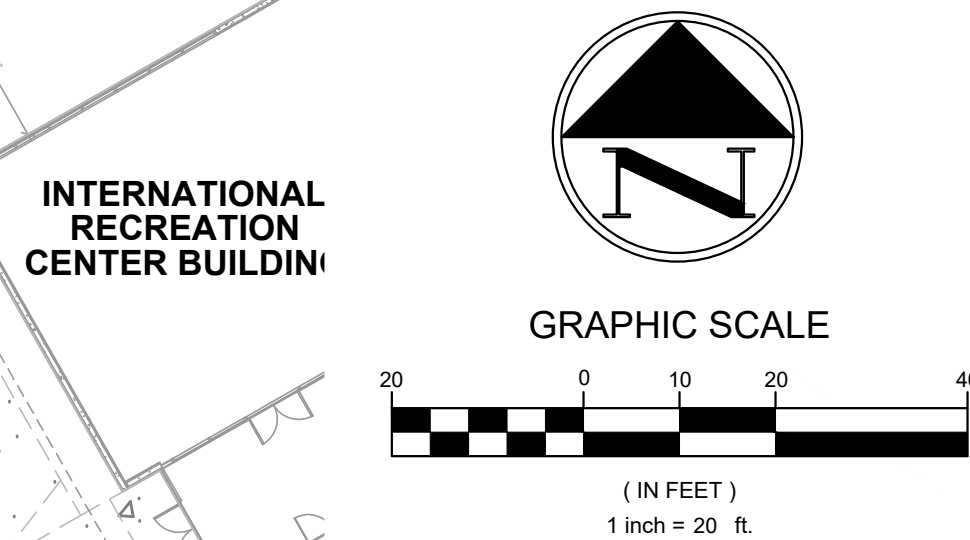
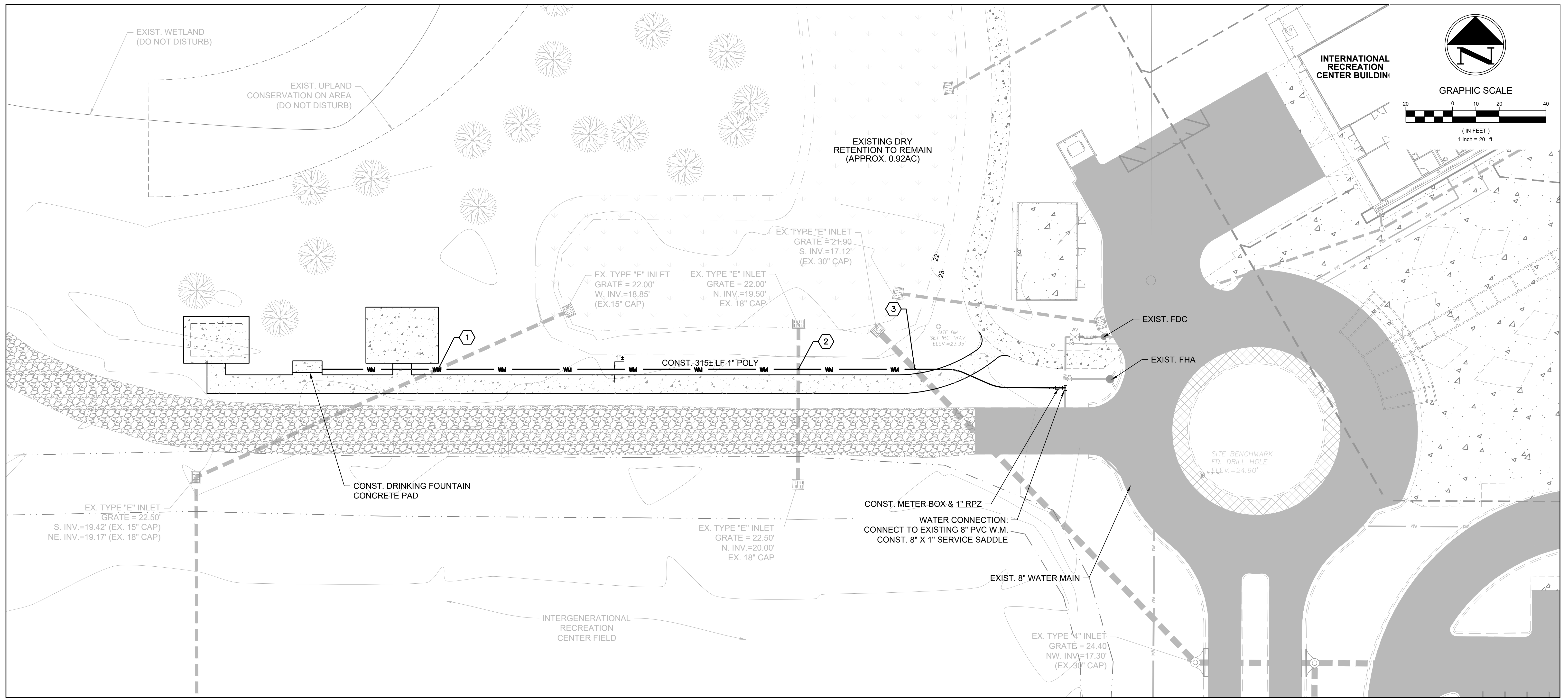
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CHECKED	SCG
DATE	02/08/23
SCALE	AS NOTED
SHEET	13 OF 17
PROJECT NO.	2302



WATER & STORMWATER NOTES:

1. ALL NEWLY CONSTRUCTED WATER MAINS SHALL HAVE A MINIMUM 36" COVER.
2. ALL NEWLY CONSTRUCTED WATER MAIN VALVES, FITTINGS, AND PIPES SHALL BE PROPERLY RESTRAINED.
3. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS TO MAINTAIN THE REQUIRED VERTICAL AND HORIZONTAL SEPARATION BETWEEN NEWLY CONSTRUCTED WATER AND EXISTING STORM WATER DRAIN AND OTHER UTILITIES.
4. AT UTILITY CROSSINGS, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THAT THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT THE WATER MAIN JOINTS ARE AT LEAST THREE FEET (3') FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX FEET (6') FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER.
5. PIPE LENGTHS SHOWN ON THIS PLAN ARE MEASURED FROM CENTER-OF-FITTING/VALVE TO CENTER-OF-FITTING/VALVE.
6. THE APPARENT SIZE OF VALVES, FITTINGS & METER BOXES DEPICTED IN THESE CONSTRUCTION PLANS HAS BEEN EXAGGERATED FOR CLARITY. IT IS INTENDED THAT ALL WATER MAIN VALVES & VALVE BOXES SHALL BE LOCATED IN GREEN AREAS OR PAVEMENT, AND NOT IN CURB OR SIDEWALK AREAS.
7. THE LOCATIONS OF EXISTING UTILITIES DEPICTED ON THESE PLANS ARE APPROXIMATE. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES IN THE VICINITY, WHETHER DEPICTED ON THESE PLANS OR NOT.
8. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING.
9. CONCRETE CRADLES/SADDLE SHALL BE USED WHEREVER WATER MAINS AND STORM SEWER PIPES CROSS WITH A VERTICAL SEPARATION OF LESS THAN TWELVE (12") INCHES.
10. CONSTRUCTION OF THE WATER DISTRIBUTION AND COLLECTION PIPE NETWORKS SHALL COMPLY WITH THE INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES (IRCDUS) WATER DEPARTMENT STANDARD DETAILS & SPECIFICATIONS, LATEST EDITION AND BE IN ACCORDANCE WITH FDEP REGULATIONS.
11. DURING DEMOLITION AND CONSTRUCTION, CARE SHALL BE TAKEN NOT TO DISTURB EXISTING MONITORING WELLS IN THE VICINITY OF THE PROJECT SITE.

UTILITY CONFLICT TABLE		
CONFLICT #	UTILITIES & ELEVATIONS	SEPARATION
①	BTM EX. 15" STM 18.88 - TOP PROP. 1" POLY 17.88 (MIN.)	1.00' (MIN.)
②	BTM EX. 18" STM 19.56 - TOP PROP. 1" POLY 18.56 (MIN.)	1.00' (MIN.)
③	TOP EX. 30" STM 19.76 - BTM PROP. 1" POLY 20.76 (MIN.)	1.00' (MIN.)

ABBREVIATION KEY
 BTM: PIPE BOTTOM
 EX: EXISTING
 STM: STORM
 TOP: PIPE TOP
 WM: WATER MAIN

NOTE: CONTRACTOR SHALL FIELD VERIFY HORIZONTAL & VERTICAL LOCATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION AND SHOP DRAWING SUBMITTAL.

DATUM
 THE DATUM AND DESIGN GRADES SHOWN WITHIN THESE PLANS REFER TO THE
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988)
 DATUM CONVERSION: NGVD '29 = NAVD '88 + (1.43')

UTILITY PLAN

CONSTRUCTION PLANS
SOUTH COUNTY REGIONAL PARK IMPROVEMENTS
INDIAN RIVER COUNTY PARKS & RECREATION
 INDIAN RIVER COUNTY FLORIDA

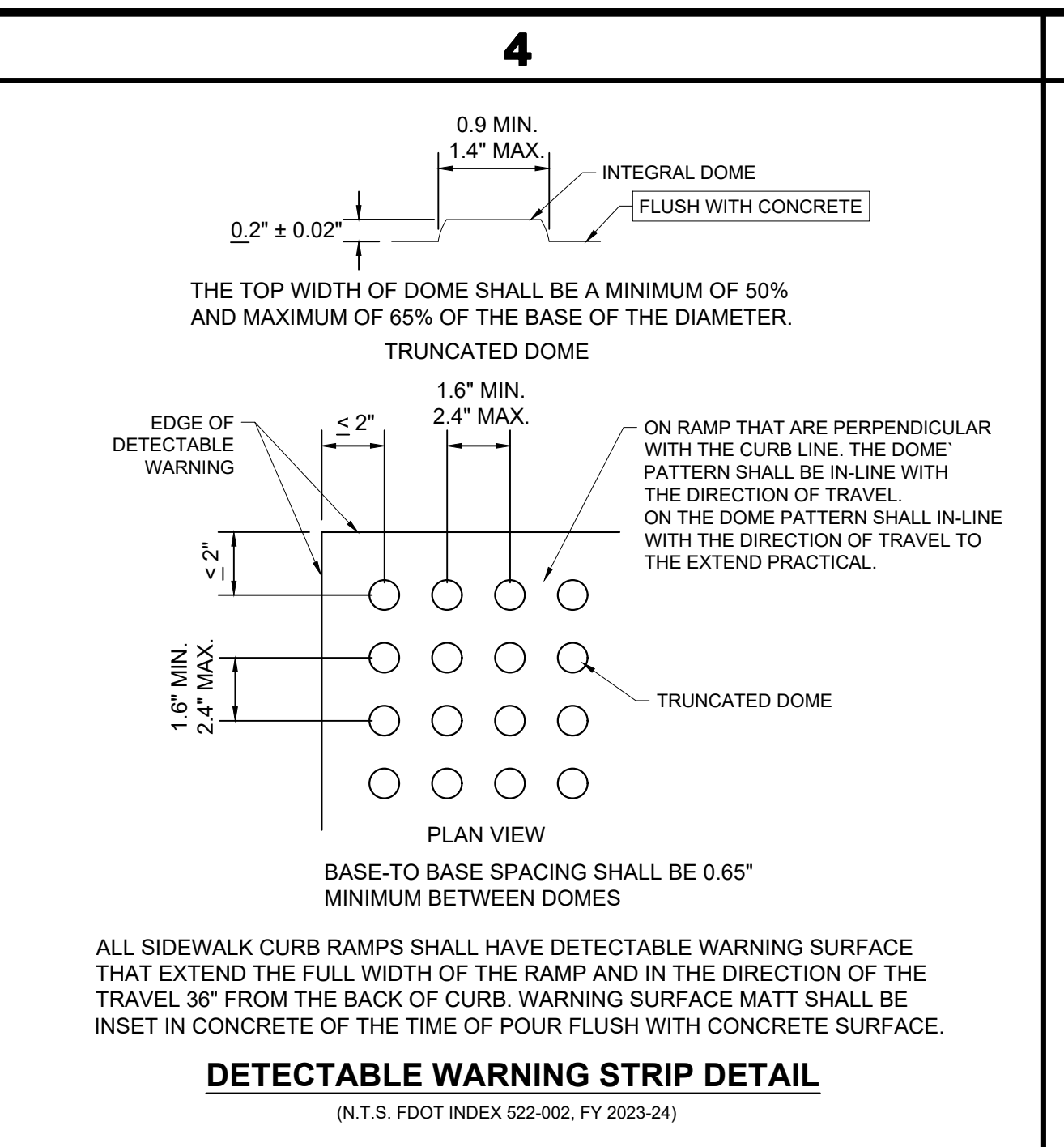
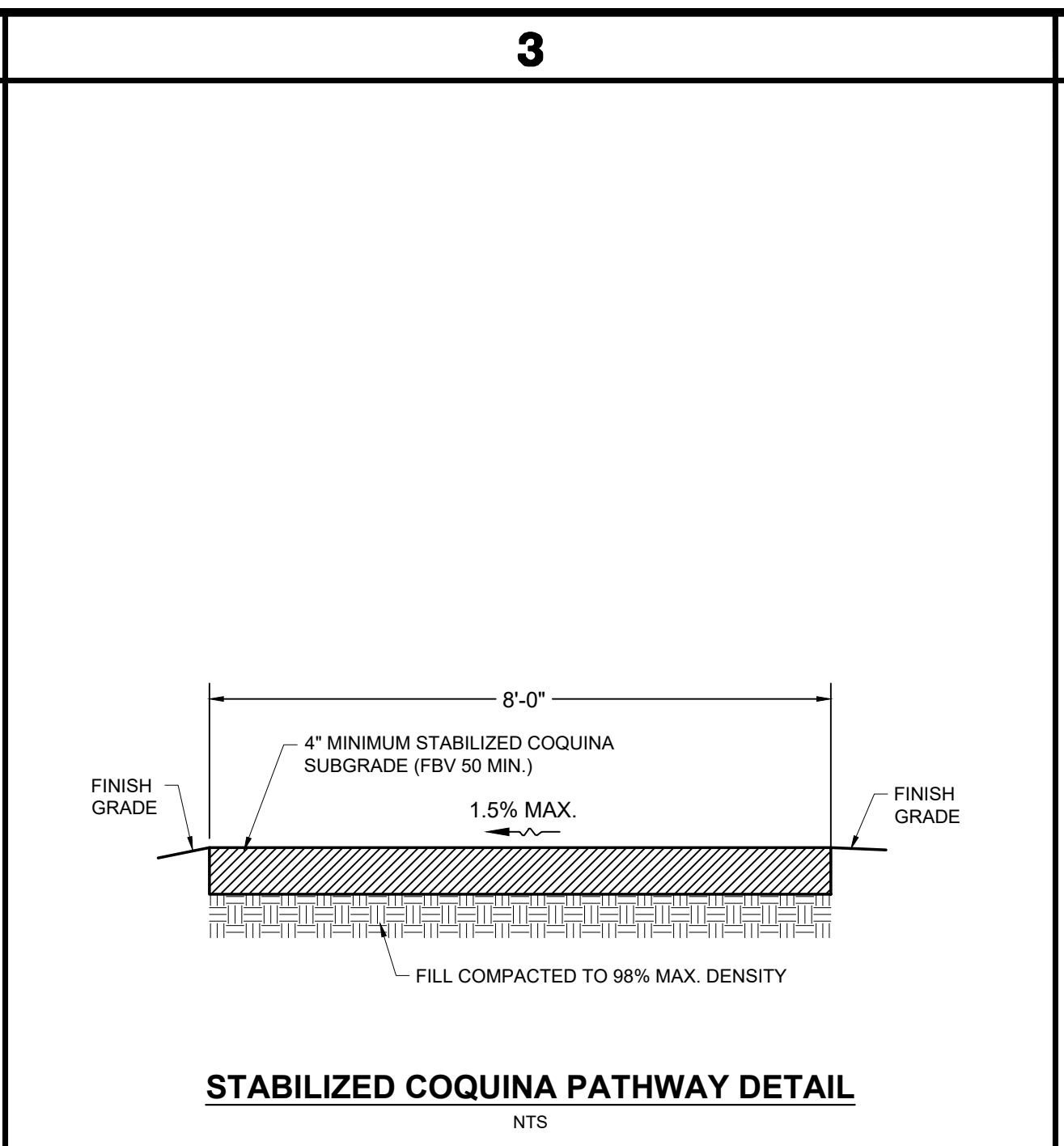
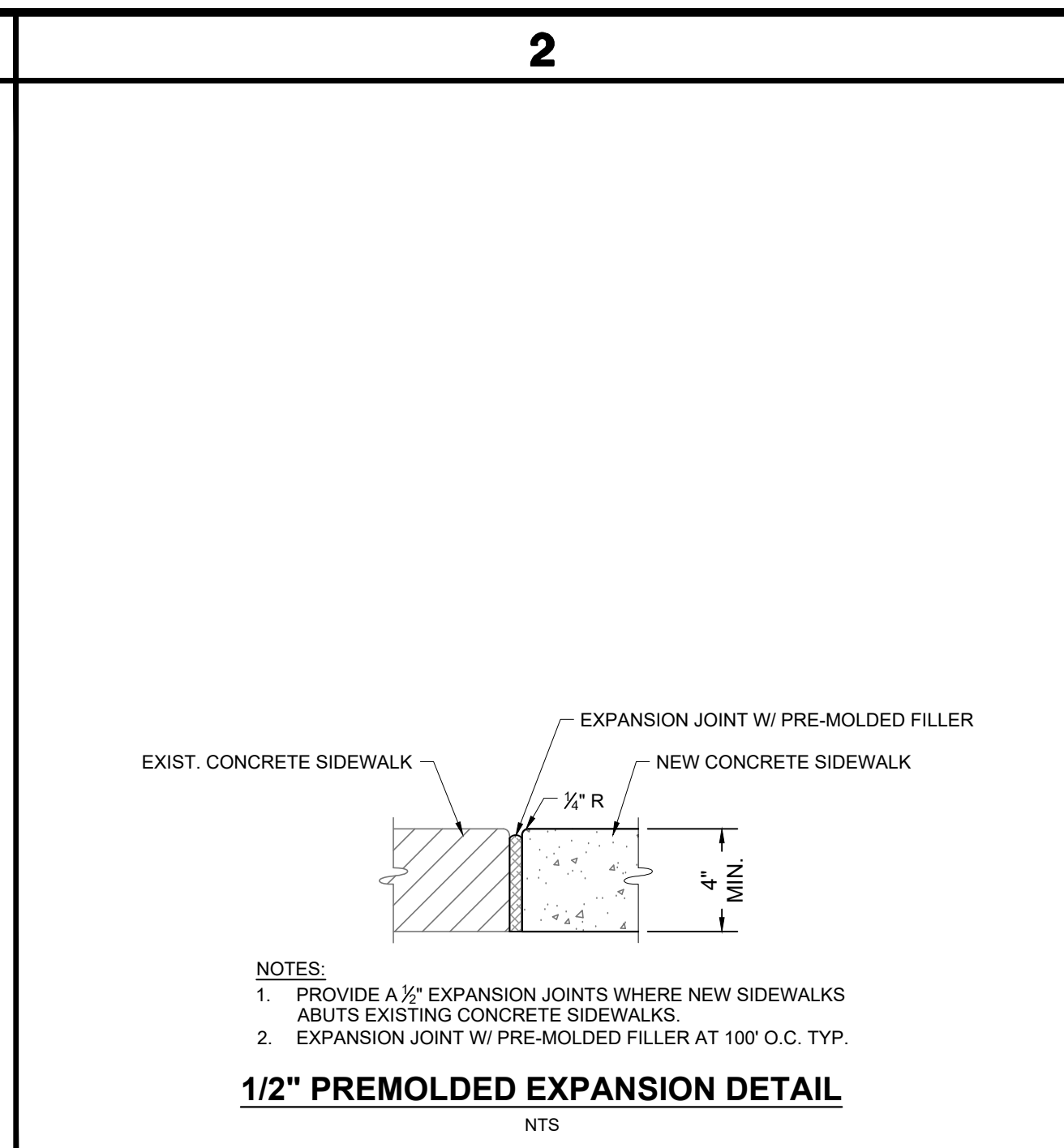
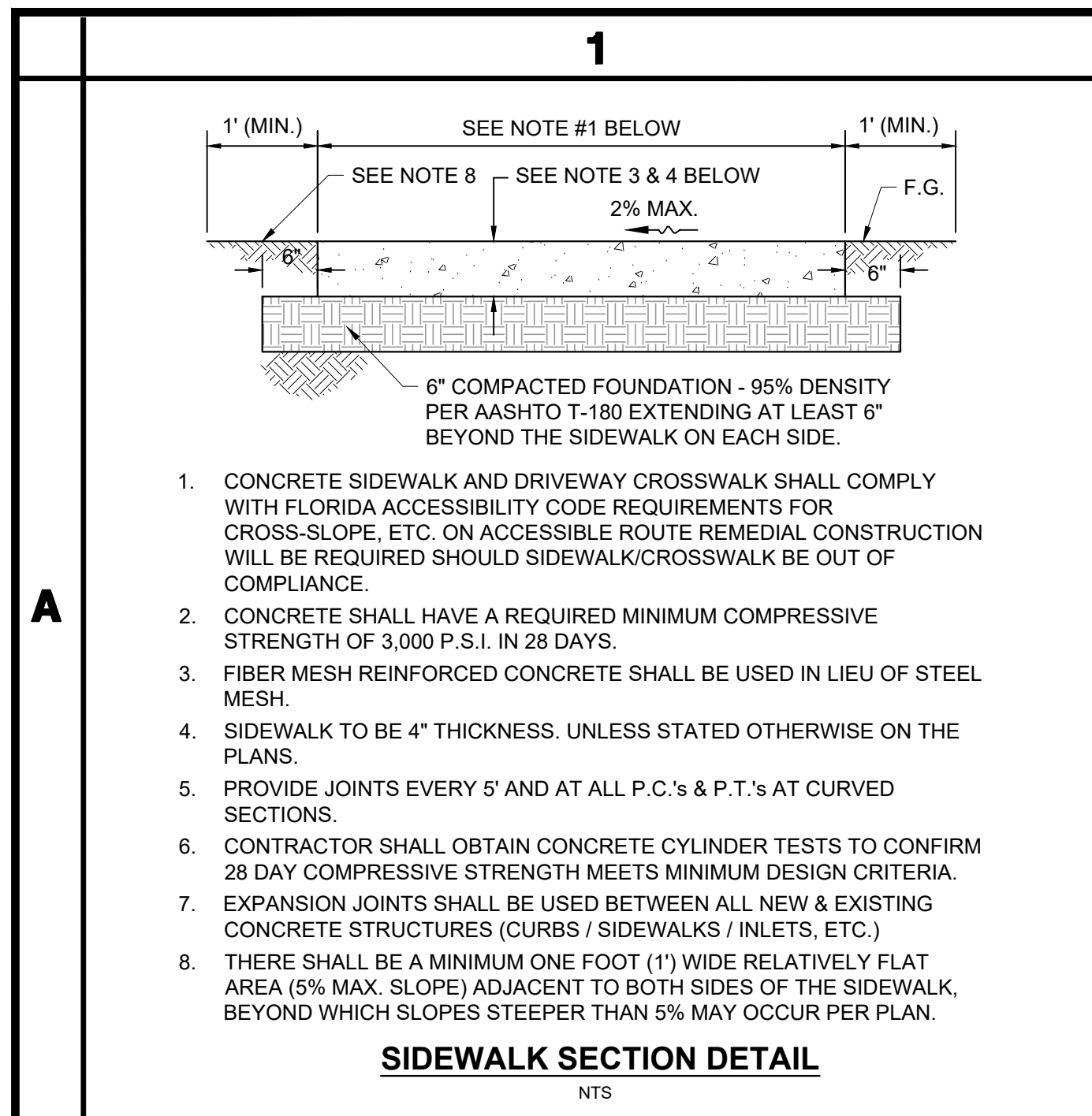
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 07/29/24
 SHEET 14 OF 17
 PROJECT NO: 2302
SEAN C. GREEN, P.E. FL #90797

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 NO. DATE DESCRIPTION DR/APP

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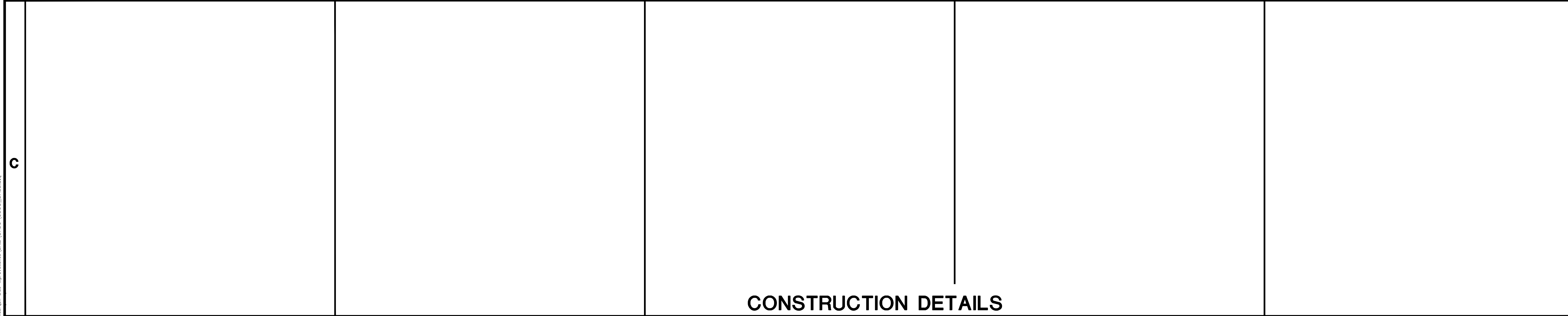
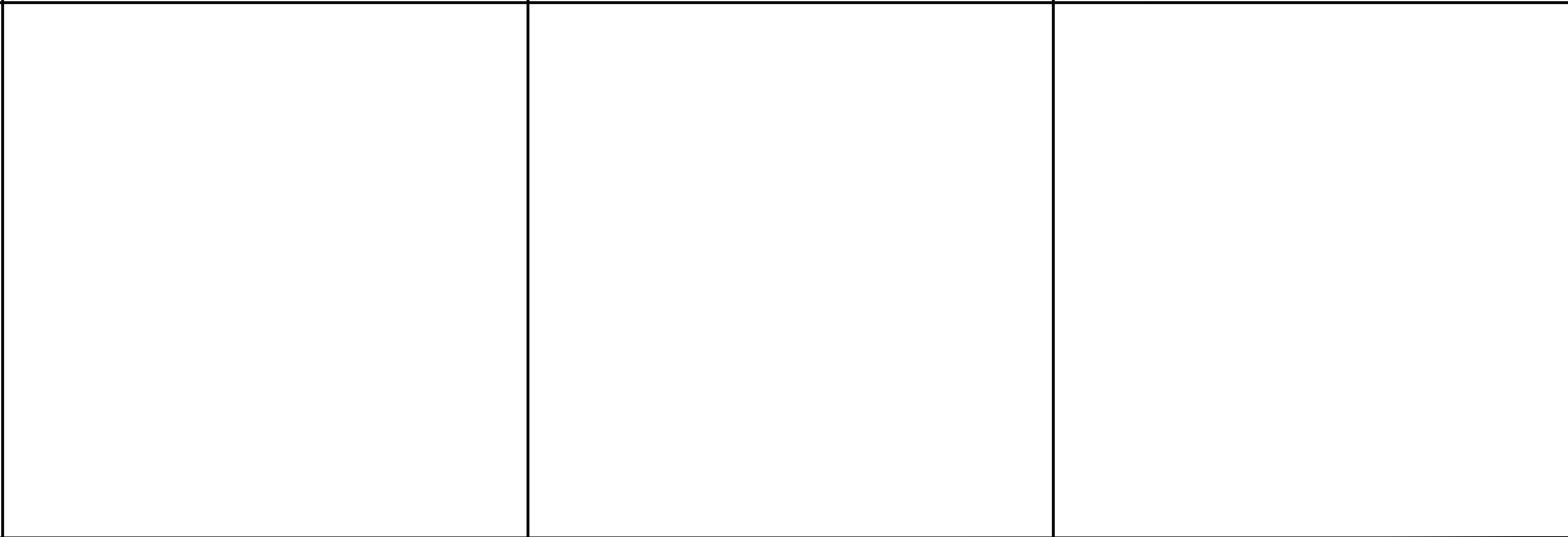
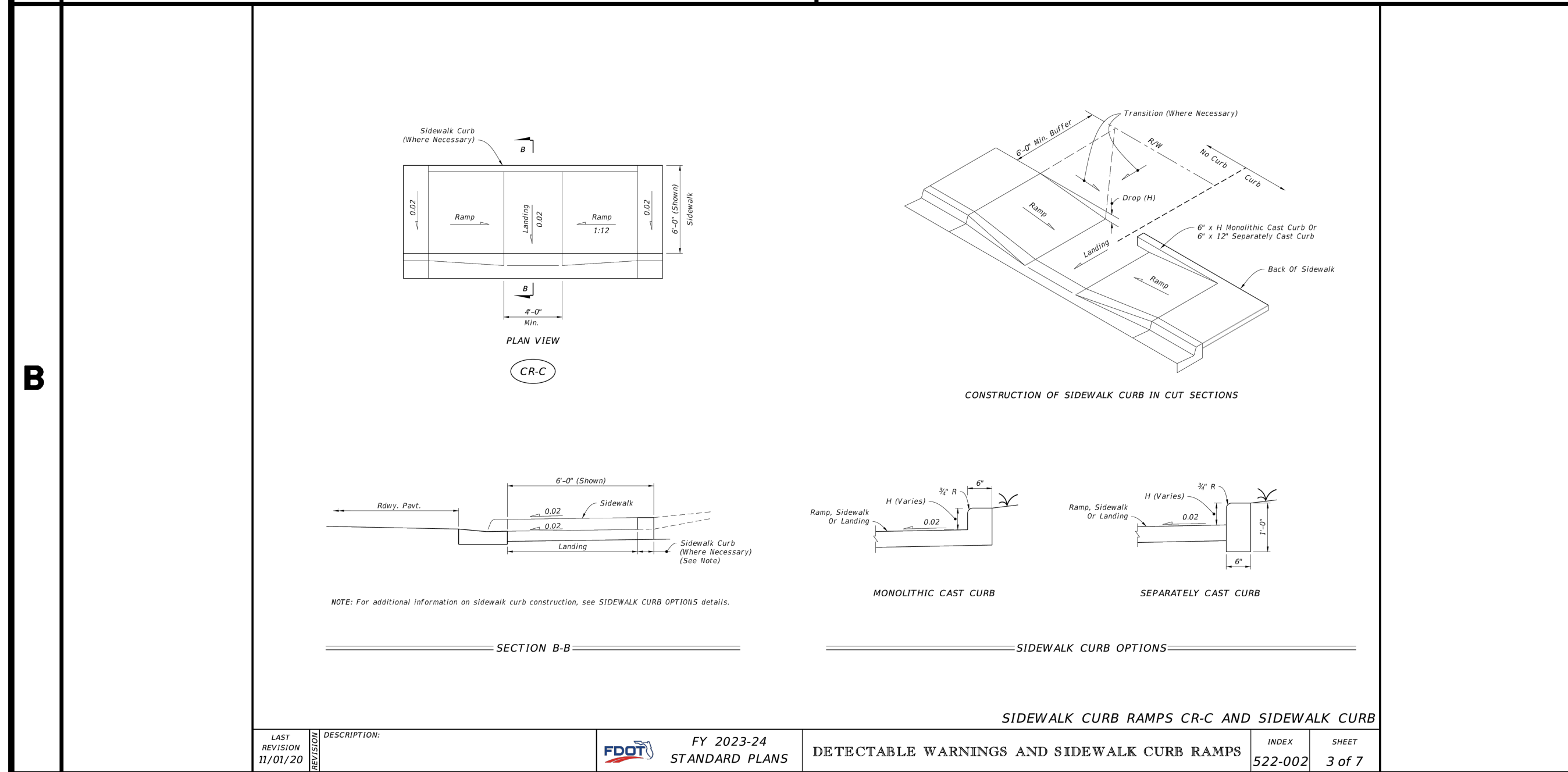
5

PROPOSED UTILITY	HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS					
	POTABLE WATER		SANITARY SEWER (GRAVITY & F.M.)		STORM SEWER	
	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.
POTABLE WATER	-	-	6' (Min.) 10' (PREF.)	18"	3'	18"
SANITARY SEWER	6' (Min.) 10' (PREF.)	18"	-	-	-	-

GENERAL NOTES:

- THE TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN F.D.E.P. RULES OF THE FLORIDA ADMINISTRATION CODE (F.A.C.). THESE SEPARATION REQUIREMENTS SHALL APPLY BETWEEN NEWLY PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES.
- ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE UNLESS OTHERWISE SPECIFIED. CRITERION PRODUCING GREATER CLEARANCE SHALL BE USED.
- USE ONE FULL LENGTH OF PIPE CENTERED AT THE POINT OF CROSSING. SPECIAL SUPPORT MAY BE REQUIRED.
- NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY OR STORM WATER MANHOLE OR STRUCTURE.
- HORIZONTAL AND VERTICAL CLEARANCES MUST MEET FDEP REQUIRED MINIMUMS. MITIGATION FOR VARIANCES WILL REQUIRE AN INDIVIDUAL PERMIT.

UTILITY PIPE SEPARATION REQUIREMENTS
NTS



NO.	DATE	DESCRIPTION	DR/APP
1	4/30/24	REVISED PER TRC LETTER 1/8/24	SCG/SCG

REVISIONS

M MASTELLER & MOLER, INC.
CONSULTING ENGINEERS

CERTIFICATE OF AUTHORIZATION NUMBER 4204
1655 27th STREET, SUITE 2, VERO BEACH, FLORIDA 32960
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CONSTRUCTION PLANS
SOUTH COUNTY REGIONAL PARK IMPROVEMENTS
INDIAN RIVER COUNTY PARKS & RECREATION
INDIAN RIVER COUNTY FLORIDA

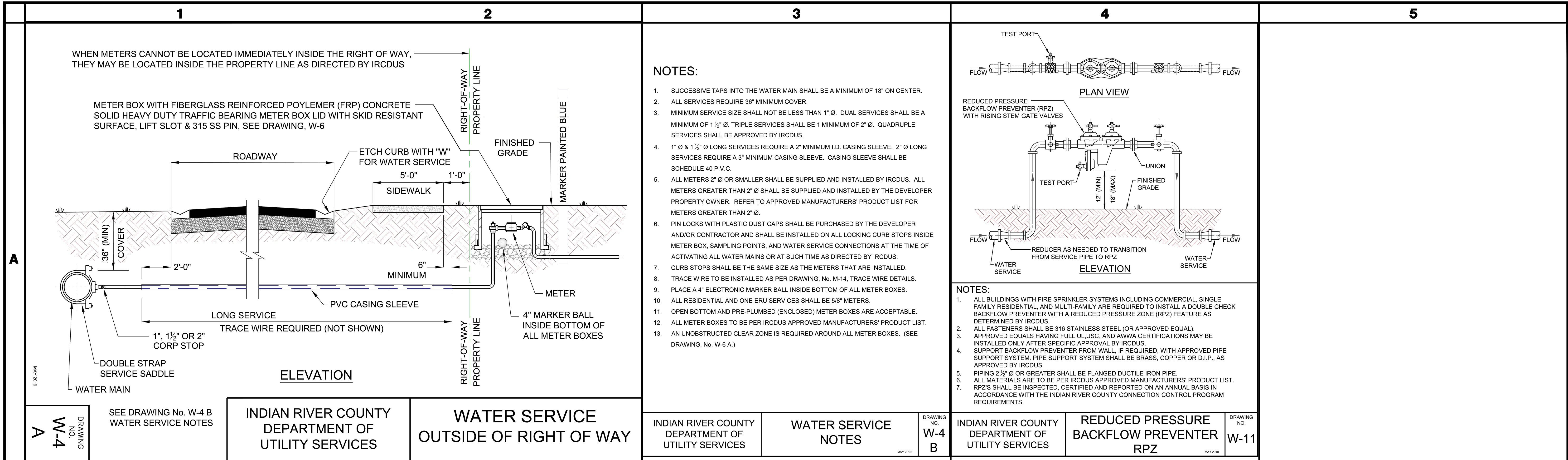
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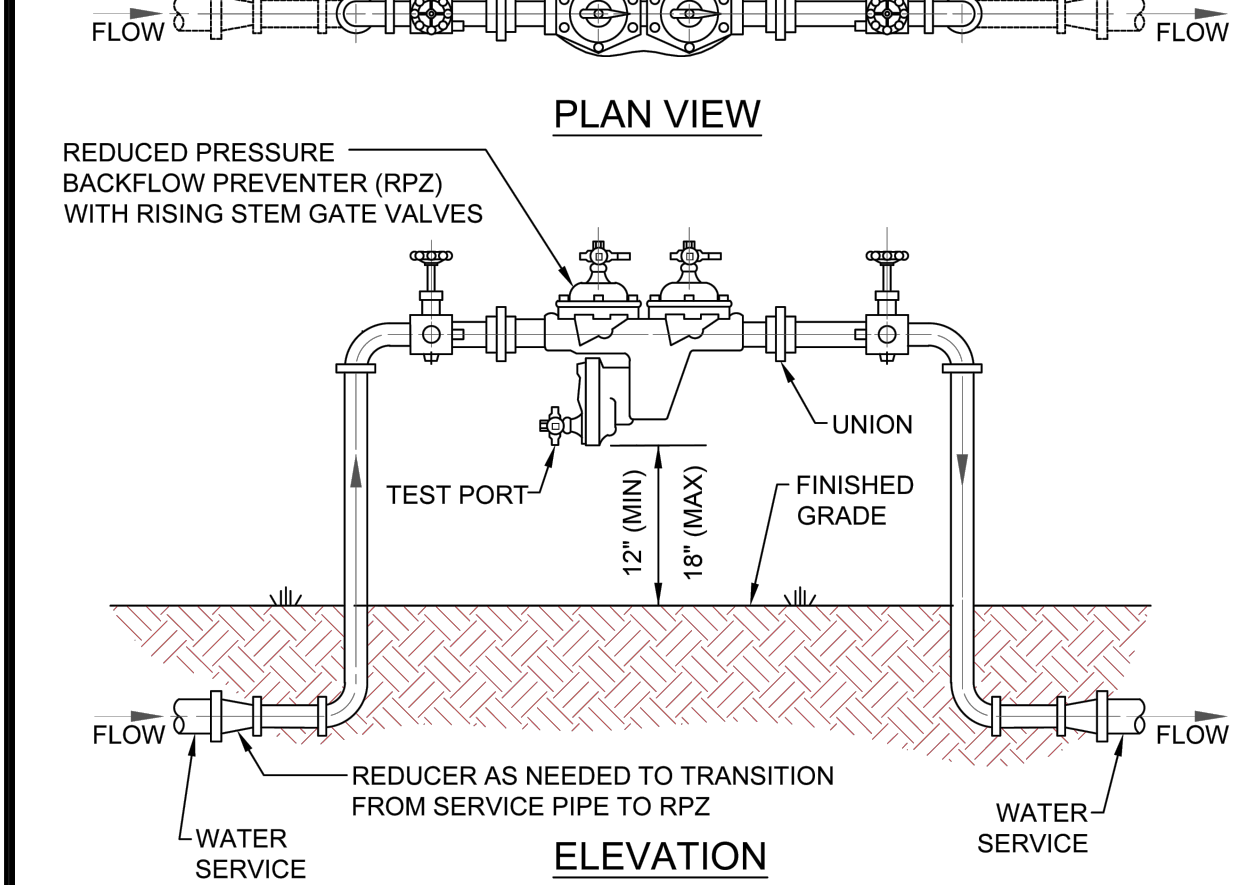
07/29/24

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

DRAWN	GEV
DESIGNED	MBB
CHECKED	SCG
DATE	02/08/23
SCALE	AS NOTED
SHEET	15 OF 17
PROJECT NO.	2302



- NOTES:**
- SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE A MINIMUM OF 18" ON CENTER.
 - ALL SERVICES REQUIRE 36" MINIMUM COVER.
 - MINIMUM SERVICE SIZE SHALL NOT BE LESS THAN 1" Ø. DUAL SERVICES SHALL BE A MINIMUM OF 1 1/2" Ø. TRIPLE SERVICES SHALL BE A MINIMUM OF 2" Ø. QUADRUPLE SERVICES SHALL BE APPROVED BY IRCDUS.
 - 1" Ø & 1 1/2" Ø LONG SERVICES REQUIRE A 2" MINIMUM I.D. CASING SLEEVE. 2" Ø LONG SERVICES REQUIRE A 3" MINIMUM CASING SLEEVE. CASING SLEEVE SHALL BE SCHEDULE 40 P.V.C.
 - ALL METERS 2" Ø OR SMALLER SHALL BE SUPPLIED AND INSTALLED BY IRCDUS. ALL METERS GREATER THAN 2" Ø SHALL BE SUPPLIED AND INSTALLED BY THE DEVELOPER PROPERTY OWNER. REFER TO APPROVED MANUFACTURERS' PRODUCT LIST FOR METERS GREATER THAN 2" Ø.
 - PIN LOCKS WITH PLASTIC DUST CAPS SHALL BE PURCHASED BY THE DEVELOPER AND/OR CONTRACTOR AND SHALL BE INSTALLED ON ALL LOCKING CURB STOPS INSIDE METER BOX, SAMPLING POINTS, AND WATER SERVICE CONNECTIONS AT THE TIME OF ACTIVATING ALL WATER MAINS OR AT SUCH TIME AS DIRECTED BY IRCDUS.
 - CURB STOPS SHALL BE THE SAME SIZE AS THE METERS THAT ARE INSTALLED.
 - TRACE WIRE TO BE INSTALLED AS PER DRAWING, No. M-14, TRACE WIRE DETAILS.
 - PLACE A 4" ELECTRONIC MARKER BALL INSIDE BOTTOM OF ALL METER BOXES.
 - ALL RESIDENTIAL AND ONE ERU SERVICES SHALL BE 5/8" METERS.
 - OPEN BOTTOM AND PRE-PLUMBED (ENCLOSED) METER BOXES ARE ACCEPTABLE.
 - ALL METER BOXES TO BE PER IRCDUS APPROVED MANUFACTURERS' PRODUCT LIST.
 - AN UNOBSTRUCTED CLEAR ZONE IS REQUIRED AROUND ALL METER BOXES. (SEE DRAWING, No. W-6 A.)



- NOTES:**
- ALL BUILDINGS WITH FIRE SPRINKLER SYSTEMS INCLUDING COMMERCIAL, SINGLE FAMILY RESIDENTIAL, AND MULTI-FAMILY ARE REQUIRED TO INSTALL A DOUBLE CHECK BACKFLOW PREVENTER WITH A REDUCED PRESSURE ZONE (RPZ) FEATURE AS DETERMINED BY IRCDUS.
 - ALL FASTENERS SHALL BE 316 STAINLESS STEEL (OR APPROVED EQUAL).
 - APPROVED EQUALS HAVING FULL UL/USC, AND AWWA CERTIFICATIONS MAY BE INSTALLED ONLY AFTER SPECIFIC APPROVAL BY IRCDUS.
 - SUPPORT BACKFLOW PREVENTER FROM WALL, IF REQUIRED, WITH APPROVED PIPE SUPPORT SYSTEM. PIPE SUPPORT SYSTEM SHALL BE BRASS, COPPER OR D.I.P., AS APPROVED BY IRCDUS.
 - PIPING 2 1/2" Ø OR GREATER SHALL BE FLANGED DUCTILE IRON PIPE.
 - ALL MATERIALS ARE TO BE PER IRCDUS APPROVED MANUFACTURERS' PRODUCT LIST.
 - RPZ'S SHALL BE INSPECTED, CERTIFIED AND REPORTED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE INDIAN RIVER COUNTY CONNECTION CONTROL PROGRAM REQUIREMENTS.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES	WATER SERVICE NOTES	DRAWING NO. W-4 B	INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES	REDUCED PRESSURE BACKFLOW PREVENTER RPZ	DRAWING NO. W-11
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UTILITY DETAILS

NO.	DATE	DESCRIPTION	DR/APP
1	4/30/24	REVISED PER TRC LETTER 1/8/24	SCG/SCG

REVISIONS

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INDIAN RIVER COUNTY FLORIDA

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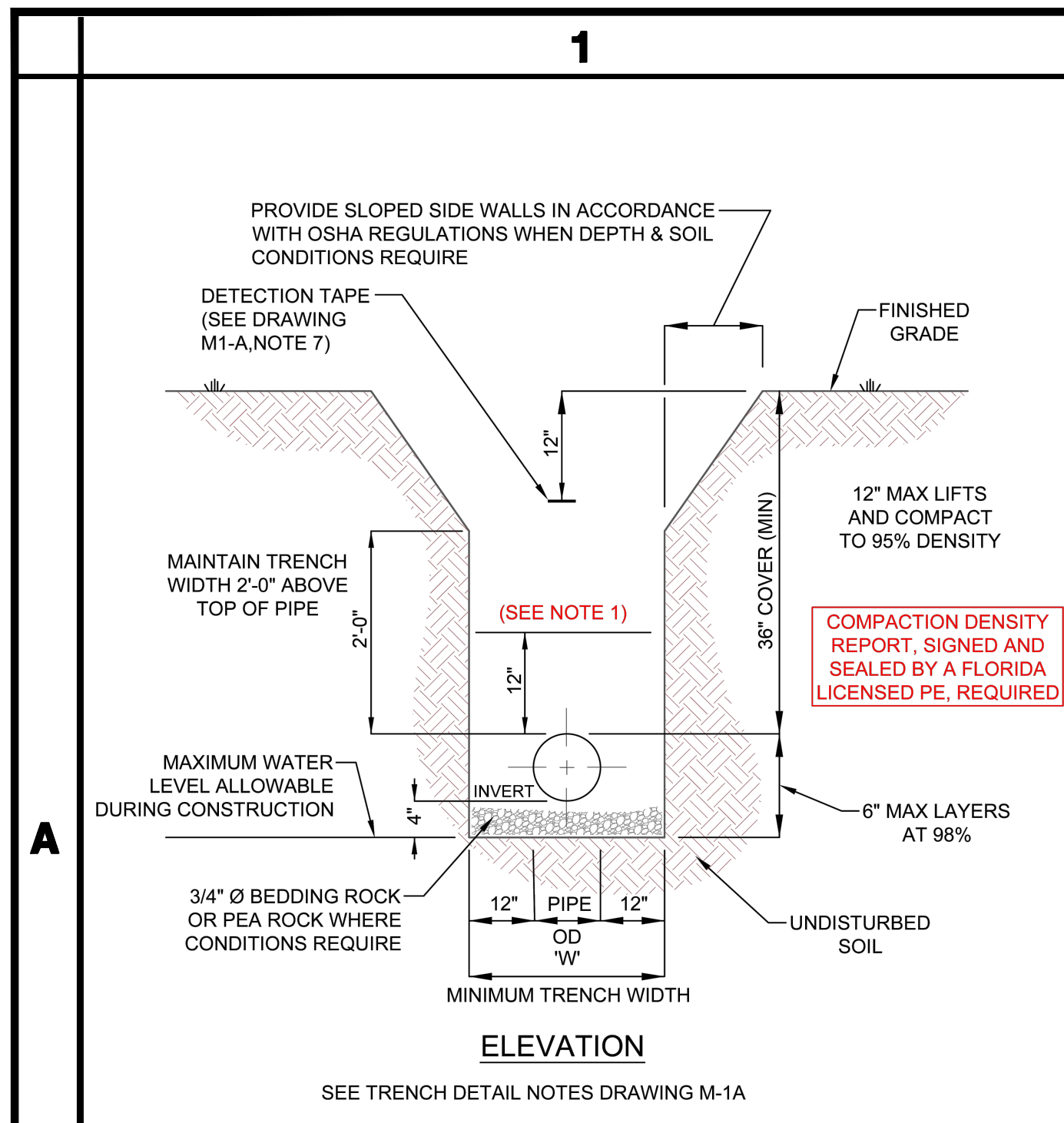
FOR BIDDING PURPOSES ONLY

07/29/24

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

DRAWN	GEV
DESIGNED	MBB
CHECKED	SCG
DATE	02/08/23
SCALE	N.T.S.
SHEET	16 OF 17
PROJECT NO.	2302

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NOTES:

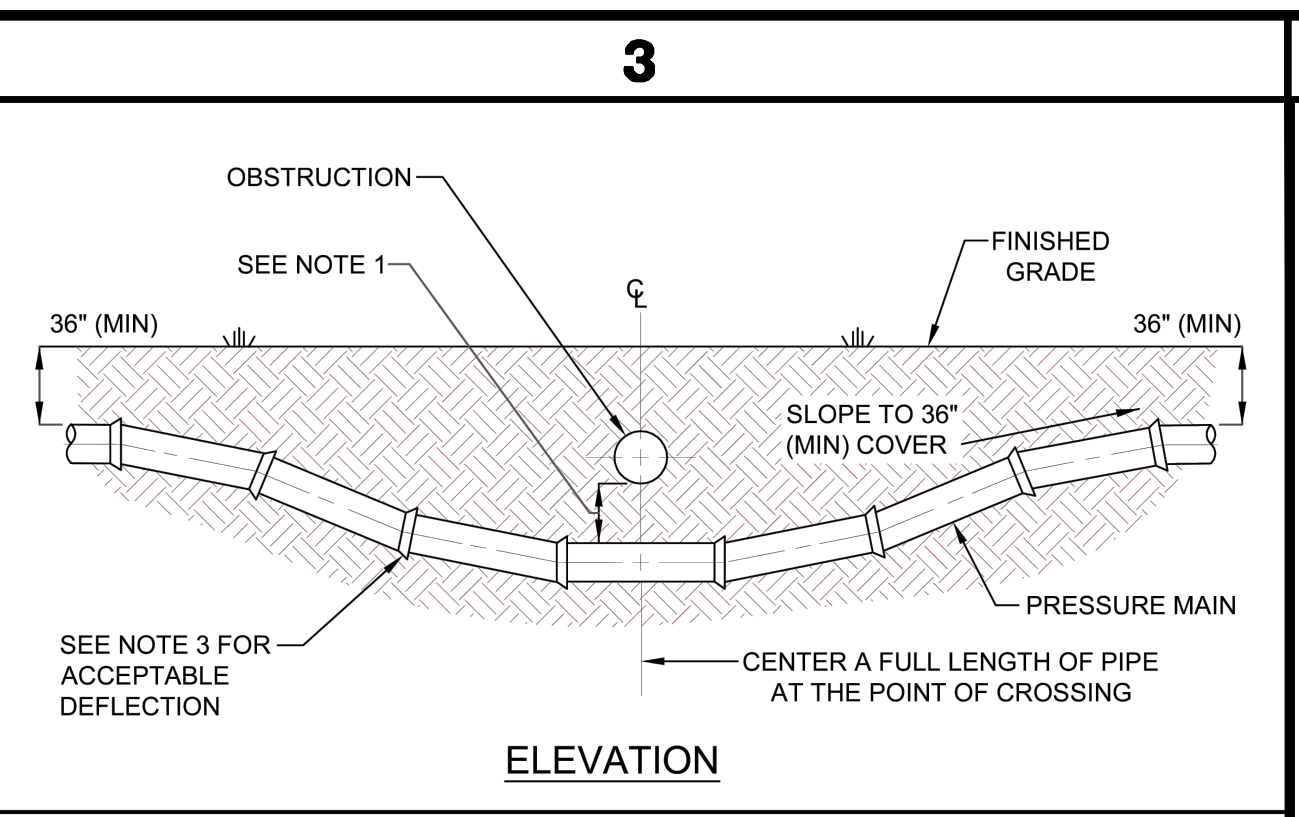
- WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE METHOD OF CONSTRUCTION TO IRCUDS FOR APPROVAL.
- SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD IN ACCORDANCE WITH OSHA REGULATIONS.
- COMPACTION PERCENTAGES SHOWN REFER TO AASHTO T-180 MODIFIED PROCTOR METHOD.
- MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL OTHER THAN HAND VIBRATORY MEANS.
- COMPACTION REPORTS REQUIRED.
- MINIMUM TRENCH WIDTH "W" = PIPE O.D. PLUS 2'-0".
- 2" DETECTION TAPE WITH METALLIC BACKING TO BE INSTALLED OVER MAIN 6" BELOW BOTTOM OF BASE COURSE. TAPE TO BE MARKED "CAUTION-WATER LINE BELOW", "CAUTION-FORCE MAIN BELOW", OR "CAUTION-REUSE MAIN BELOW". TRACE WIRE SHALL BE USED CONTINUOUSLY ON ALL PIPE. SEE DRAWING, No. M-14, TRACE WIRE DETAIL.
- ALL RESTORATION IN EASEMENTS OR RIGHT-OF-WAYS OR WHEN REQUIRED BY OTHER JURISDICTIONAL AGENCIES SHALL CONFORM TO IRCUDS SPECIFICATIONS OR THE OTHER JURISDICTIONAL AGENCY SPECIFICATION, WHICHEVER IS MORE STRINGENT.
- ALL PIPE TO BE LOCATED A MINIMUM OF 5' O.C. (TYPICAL) FROM EDGE OF PAVEMENT.
- EXCAVATABLE FLOWABLE FILL IS ALLOWED WITH PRIOR APPROVAL OF PROPOSED MATERIAL STRENGTH BY COUNTY PUBLIC WORKS ENGINEER OR DESIGNEE.

NOTES:

- MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL OTHER THAN HAND VIBRATORY MEANS.
- ALL RESTORATION IN EASEMENTS OR RIGHT-OF-WAYS OR WHEN REQUIRED BY OTHER JURISDICTIONAL AGENCIES SHALL CONFORM TO IRCUDS SPECIFICATIONS OR THE OTHER JURISDICTIONAL AGENCY SPECIFICATION, WHICHEVER IS MORE STRINGENT.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
TRENCH DETAIL (UNPAVED EASEMENT)
 DRAWING NO. M-1
 MAY 2019

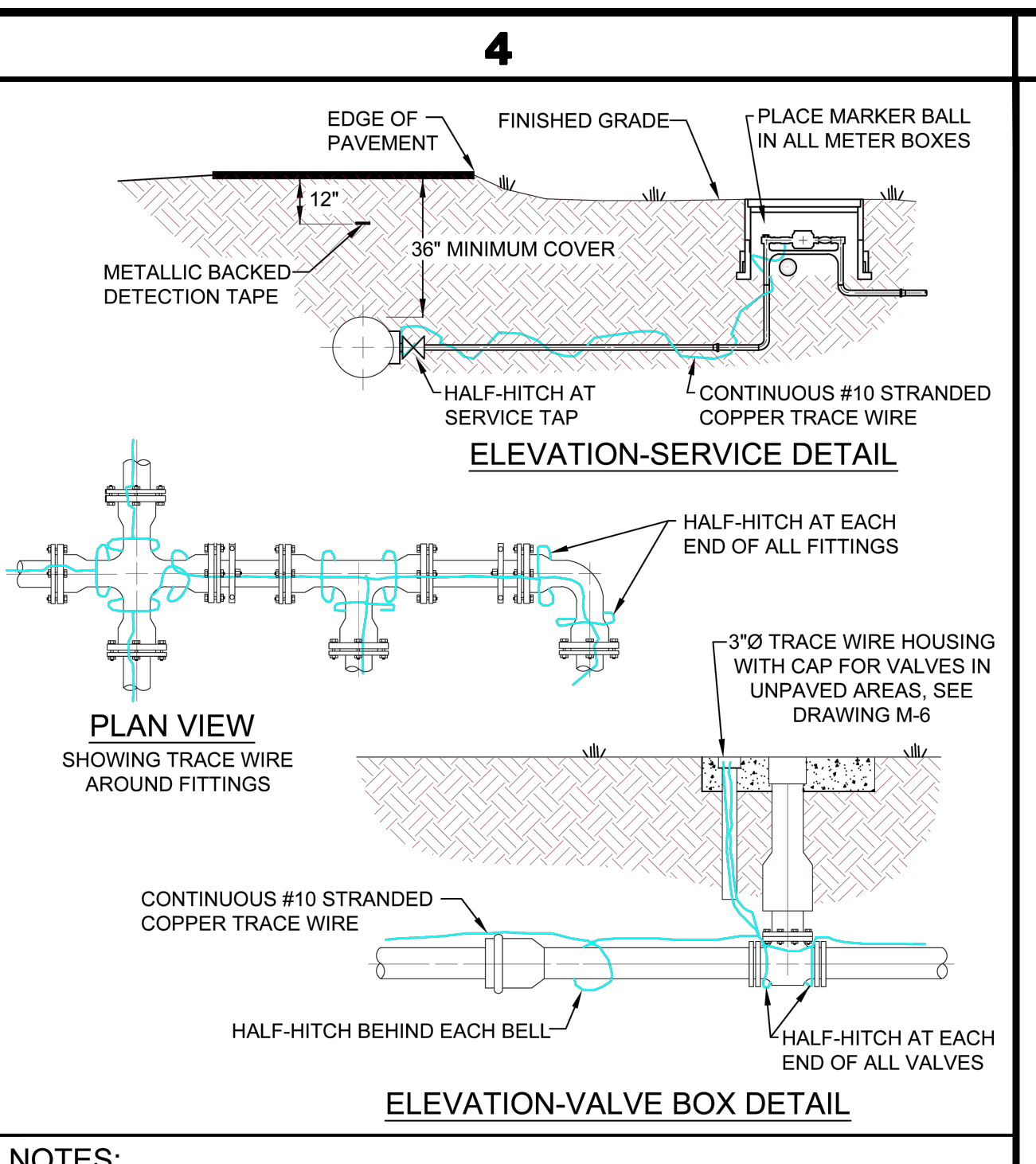
INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
TRENCH DETAIL NOTES
 DRAWING NO. M-1
 A
 MAY 2019



NOTES:

- NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY, VACUUM TYPE SANITARY SEWER, STORM SEWER, OR PRESSURE TYPE SANITARY SEWER, WASTEWATER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE WATER MAIN IS AT LEAST 6", AND PREFERABLY 12", ABOVE OR A MINIMUM OF 12 INCHES BELOW THE OTHER PIPELINE. IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE IF 36" MINIMUM COVER CAN BE MAINTAINED ABOVE THE WATER MAIN AND 6" OF SEPARATION BETWEEN THE WATER MAIN AND THE OTHER PIPELINE.
- AT UTILITY CROSSINGS, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER.
- CONSTRUCT STANDARD CROSSING NOT TO EXCEED 75% OF THE MANUFACTURER'S MAXIMUM JOINT DEFLECTION.
- OTHER METHODS OF RESTRAINT MAY BE USED AS APPROVED BY IRCUDS IN LIEU OF DEFLECTING THE PIPE AS SHOWN ABOVE.
- TRACER WIRE SHALL BE INSTALLED ABOVE THE PIPE. (SEE DRAWING, No. M-14)
- ALL WATER AND SEWER PIPING SHALL BE LOCATED A MINIMUM HORIZONTAL SEPARATION EQUAL TO THE DEPTH OF THE PIPE PLUS THE DIAMETER OF THE PIPE FROM ANY PERMANENT ABOVE GROUND STRUCTURES (I.E. WALLS, TREES, TRANSFORMER PADS, ETC.) AND A MINIMUM HORIZONTAL SEPARATION EQUAL TO FOUR (4) FEET FROM ANY UNDERGROUND UTILITIES (I.E. GAS MAINS, TELEPHONE LINES, CABLE LINES, IRRIGATION MAINS, ETC.).
- IRCUDS MAY REQUIRE AIR RELEASE VALVES ON EACH SIDE OF A UTILITY CROSSING.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
UTILITY CROSSINGS
 DRAWING NO. M-4
 MAY 2019



NOTES:

- TRACE WIRE IS REQUIRED ON ALL PIPES REGARDLESS OF MATERIAL.
- INCLUDE ALL COST OF MATERIAL AND LABOR TO INSTALL TRACE WIRE IN PRICE OF PIPE.
- CONTRACTOR IS RESPONSIBLE FOR CONTINUITY THROUGHOUT ENTIRE PROJECT OF ALL TRACE WIRE.
- ALL CONNECTIONS SHALL BE MADE WITH DIRECT BURY CONNECTORS.
- ALL MATERIALS ARE TO BE PER IRCUDS APPROVED MANUFACTURER'S PRODUCT LIST.
- COLOR OF TRACE WIRE SHALL BE: BLUE FOR WATER, GREEN FOR SEWER, AND PURPLE FOR RECLAIMED WATER.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
TRACE WIRE DETAILS
 DRAWING NO. M-14
 MAY 2019

GENERAL NOTES

- ALL AS-BUILT RECORD DRAWINGS SHALL MEET THE MINIMUM REQUIREMENTS OF THE CHAPTER AJ-17, FLORIDA ADMINISTRATION CODE PURSUANT TO SECTION 472 OF THE FLORIDA STATUTES.
- ALL AS-BUILT RECORD DRAWINGS SHALL BE IN STATE PLANE COORDINATES. STATE PLANE COORDINATES SHALL BE BASED ON THE FLORIDA STATE PLANE HORIZONTAL DATA (EAST ZONE), OR FLORIDA HIGH PRECISION GEODETIC NETWORK (SUPERSTATION) AND NAD 83/1998-FINAL ADJUSTMENT, OR THE MOST CURRENT DATUM ADOPTED BY INDIAN RIVER COUNTY.
- FLORIDA STATE PLANE HORIZONTAL DATA AND STATION OFF-SET SHALL BE TIED TO VALVES, METERS, FITTINGS, MANHOLES, BLOW-OFFS, WATER SERVICES, FIRE HYDRANTS, SERVICE SADDLES, CORP STOPS AND PIPE (PIPE AT 200' INTERVALS).
- ALL ELEVATIONS SHOWN SHALL BE BASED ON 1988 NAVD (NORTH AMERICAN VERTICAL DATUM).
- ALL AS-BUILT RECORD DRAWINGS SHALL BE TIED TO A MINIMUM OF ONE (1) PERMANENT REFERENCE MONUMENT (P.R.M.) AT THE END OF EACH PROJECT. ONE P.R.M. SHALL BE TIED TO A MINIMUM OF ONE (1) SECTION CORNER OR ONE-QUARTER (1/4) SECTION CORNER WHICHEVER IS CLOSEST TO THE PROJECT. STATE PLANE COORDINATES SHALL BE PHYSICALLY SHOWN ON THE DRAWING NEXT TO THE P.R.M. USED.
- HORIZONTAL CONTROL MONUMENTATION FOR UTILITY LINES SHALL BE A MINIMUM OF TWO (2) POINTS AT A MAXIMUM OF 1,400 FEET BETWEEN POINTS AND SHOWN ON ALL PLANS.
- VERTICAL CONTROL (WHEN REQUIRED) FOR LINEAR UTILITY LINES, SUCH AS WATER AND SEWER, SHALL HAVE A MAXIMUM OF 1,100 FEET BETWEEN EXISTING CONSTRUCTION OR ESTABLISHED BENCHMARKS.
- AFTER ALL APPROVALS, ALL INCOMING RECORD DRAWINGS SHALL BE RECEIVED ON A CD AS AN ELECTRONIC COPY, AUTOCAD 2016 OR LATEST VERSION, WITH A TIE TO A MINIMUM OF (2) TWO STATE PLANE COORDINATES. (1) ONE (24"x36") SIGNED AND SEALED COPY OF EACH AS-BUILT SHALL BE SUBMITTED. ALL RECORD DRAWINGS SHALL STATE IN 1/2" LETTERING "RECORD DRAWING" AND THE DATUM USED (1/2" LETTERING) IN THE LOWER RIGHT HAND SIDE OF THE ORIGINAL DRAWING OR COPY ALONG WITH THE AS-BUILT DATE. ALL RECORD DRAWINGS SHALL BE IN A MINIMUM SCALE OF 1"=40'. MINIMUM TEXT SHALL BE 1/8".
- ELECTRONIC COPY OF RECORD DRAWINGS SHALL BE FORMATTED WITH ALL NEWLY CONSTRUCTED IRCUDS UTILITIES IN THE FOLLOWING LAYER STATES:

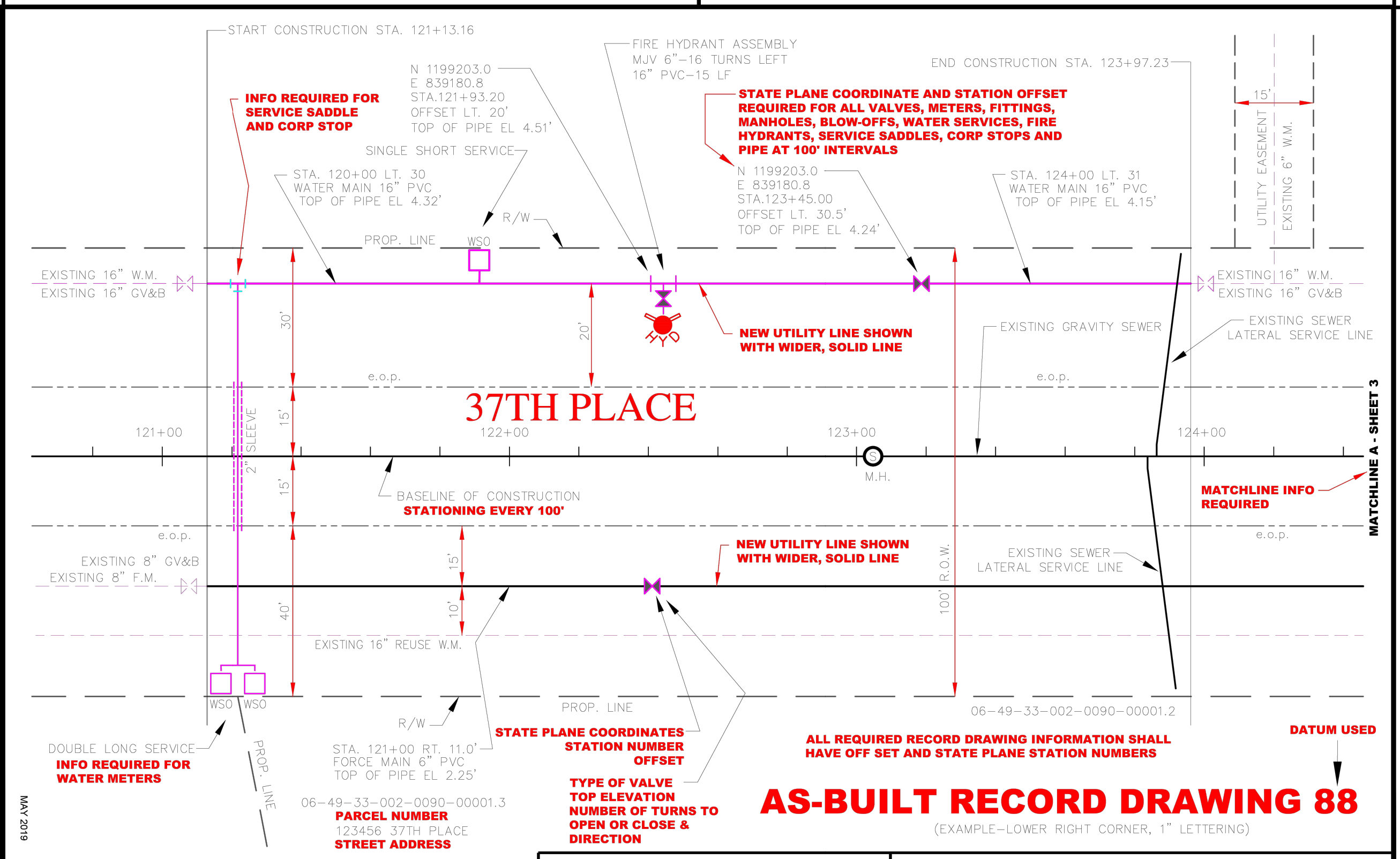
AUTOCAD LAYER NAME	DATA TO BE CONTAINED IN LAYER
WATER MAIN	WATER MAIN ONLY
WATER FITTINGS	WATER FITTINGS, METERS, VALVES, SERVICES, LATERALS, ETC.
GRAVITY SEWER	GRAVITY SEWER MAIN ONLY
SEWER FORCE MAINS	SEWER FORCE MAIN ONLY
SEWER FITTINGS	SEWER FITTINGS, MANHOLES, SERVICE LATERALS, VALVES, ETC.
R/O CONCENTRATE	MAINS, FITTINGS, VALVES, ETC.
RECLAIMED WATER	MAINS, FITTINGS, VALVES, ETC.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
AS-BUILT RECORD DRAWING GENERAL NOTES
 DRAWING NO. M-16
 MAY 2019

GENERAL NOTES (continued)

- A MINIMUM TEXT SIZE OF 1/8" IS REQUIRED ON ALL CONSTRUCTION/ROUTE SURVEY AND RECORD DRAWINGS.
- ALL AS-BUILT RECORD DRAWINGS SHALL BE CERTIFIED BY THE PROJECT ENGINEER OR CONTRACTING SURVEYOR.
- ALL AS-BUILT RECORD DRAWINGS SHALL CLEARLY DEPICT UTILITY LINES THAT WERE CONSTRUCTED ALONG THEIR RESPECTIVE EASEMENT (IF REQUIRED). AS-BUILT RECORD DRAWINGS WILL NOT BE ACCEPTED UNLESS THE VERBIAGE "PROPOSED" AND/OR "TO BE CONSTRUCTED" HAVE BEEN DELETED ON THE DRAWING. AS-BUILT RECORD DRAWINGS WITH "PROPOSED" OR "TO BE CONSTRUCTED" TERMINOLOGY WILL NOT BE ACCEPTED.
- ALL NEW UTILITY CONSTRUCTION LOCATED WITHIN THE RIGHTS-OF-WAY, EASEMENTS AND ALIKE SHALL BE TIED TO THE RESPECTIVE RIGHTS-OF-WAY, EASEMENTS, ETC. EVERY 1,000 FEET AND CHANGE OF DIRECTION.
- ALL AS-BUILT RECORD DRAWINGS SHALL BE COMPLETE AND APPROVED BEFORE COMMENCEMENT OF FIELD TEST.
- BASELINE OF CONSTRUCTION AND STATION OF ITEMS TO BE LOCATED ON THE CENTER OF THE ROADWAY, UNLESS CONDITIONS WARRANT AND APPROVED BY IRCUDS. BASELINE STATIONING SHALL BE EVERY 100', CONTROL POINTS SET AT EVERY 500' AND ANGLE CHANGE OF DIRECTION.
- ALL NEW UTILITY CONSTRUCTION LINES ON ALL AS-BUILT RECORD DRAWINGS SHALL BE SHOWN WITH A WIDER, SOLID LINE. EXISTING UTILITY LINES SHALL BE SHOWN WITH A THINNER, DASHED LINE.
- TOP OF PIPE ELEVATIONS & STATIONING TO BE TYPED, LISTED, SEALED & SUBMITTED BY THE ENGINEER FOR LOCATING THE AIR RELEASE VALVES AS CONSTRUCTION PROCEEDS.
- SHOW TOP ELEVATION OF THE UTILITY LINES THAT WERE CONSTRUCTED AND SHOW EXISTING UTILITY LINES FOR ALL UTILITY CROSSINGS.
- PUMP STATION POWER SUPPLY FROM FP&L OR COVB ELECTRIC POWER POLE OR TRANSFORMER TO THE PUMP STATION ELECTRIC PANEL SHALL BE INCLUDED ON THE AS-BUILT RECORD DRAWING.
- ALL FIRE HYDRANTS AND FIRE HYDRANT VALVES SHALL BE LOCATED BY STATE PLANE COORDINATES, STATION NUMBER AND OFFSET AND SHALL BE CLEARLY IDENTIFIED ON AS-BUILT RECORD DRAWING.
- ALL NEWLY CONSTRUCTED VALVES SHALL BE CLEARLY IDENTIFIED BY SIZE, TYPE, TOP ELEVATION AND DIRECTION/NUMBER OF TURNS TO OPEN OR CLOSE VALVE.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
AS-BUILT RECORD DRAWING GENERAL NOTES CONTINUED
 DRAWING NO. M-16
 A
 MAY 2019



INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
AS-BUILT RECORD DRAWING (EXAMPLE)
 DRAWING NO. M-15
 A
 MAY 2019

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
UTILITY DETAILS
 DRAWING NO. M-15
 A
 MAY 2019

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
AS-BUILT RECORD DRAWING GENERAL NOTES CONTINUED
 DRAWING NO. M-16
 A
 MAY 2019

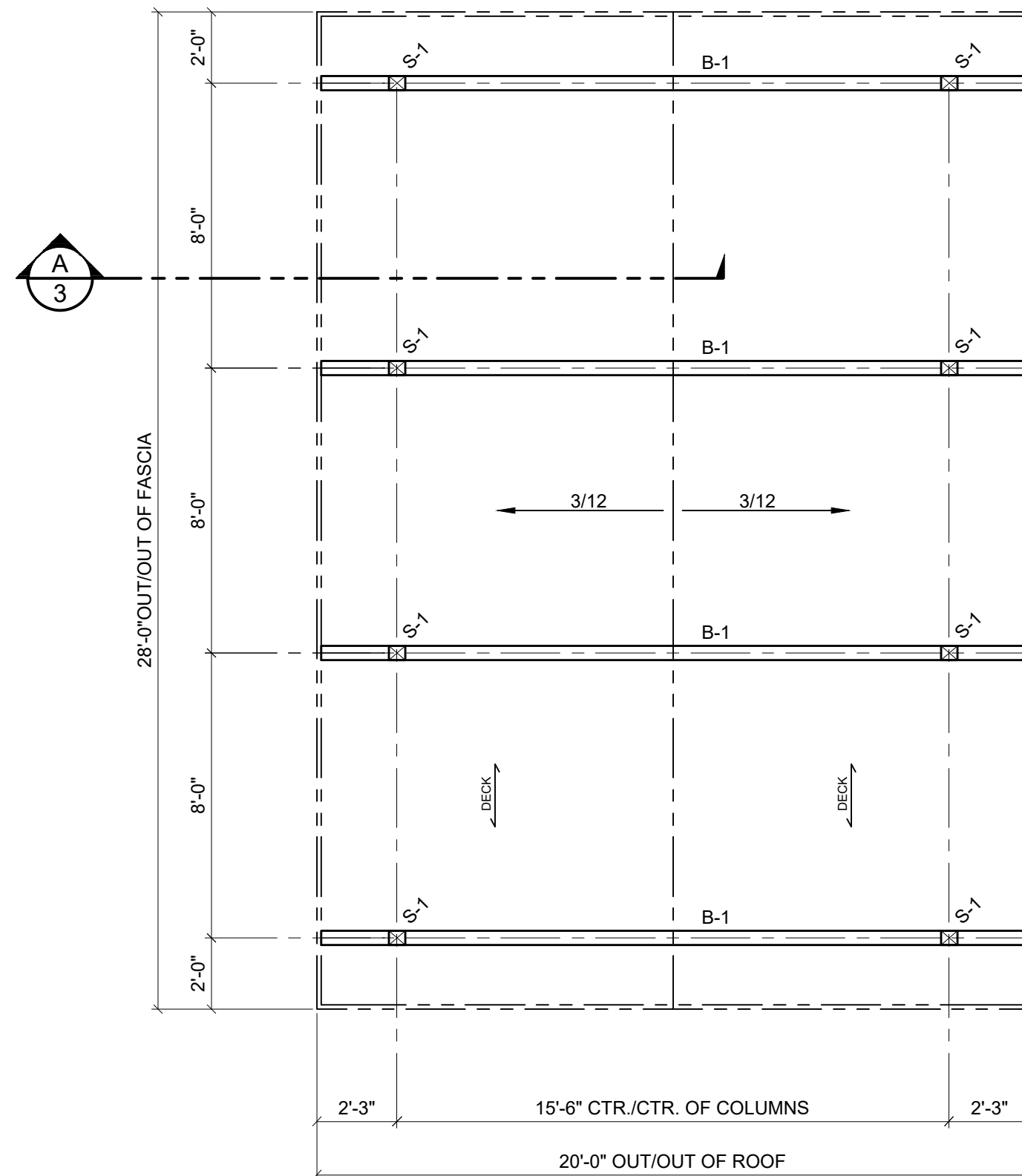
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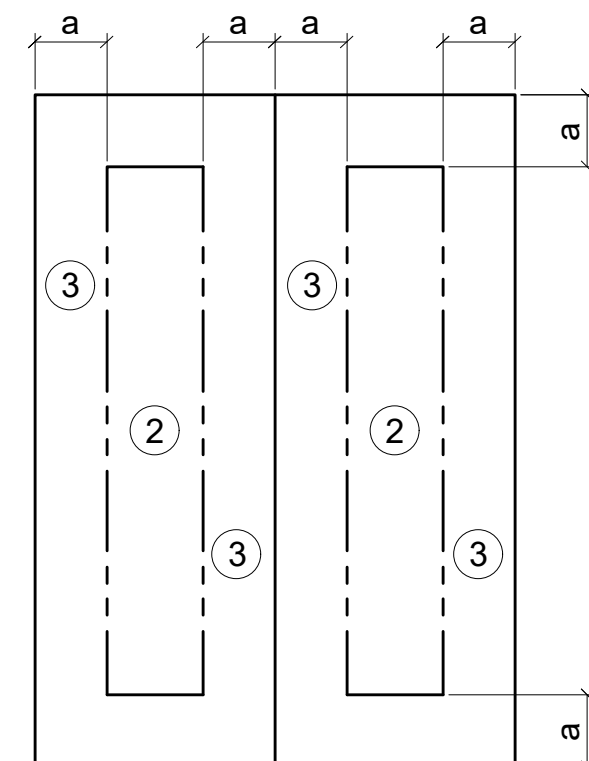
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FOR BIDDING PURPOSES ONLY
 07/29/24
 SHEET 17 OF 17
 PROJECT NO: 2302
 DRAWN: GEV
 DESIGNED: MBB
 CHECKED: SCG
 DATE: 02/08/23
 SCALE: N.T.S.
SEAN C. GREEN, P.E. FL #90797



ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



ROOF PLAN
a = 3'-0"

ULTIMATE PRESSURES FOR COMPONENTS & CLADDING

ZONE	PRESSURE	SUCTION	AREA
2	65.9 PSF	66.4 PSF	≤ 36 ft ²
2	42.6 PSF	43.1 PSF	> 36 ft ²
3	85.3 PSF	92.2 PSF	≤ 9 ft ²
3	65.9 PSF	66.4 PSF	> 9 ft ² , ≤ 36 ft ²
3	42.6 PSF	43.1 PSF	> 36 ft ²

UNLOADING, HANDLING, & STORAGE OF GLU-LAM & DECKING

LAMINATED MEMBERS ARE WRAPPED FOR PROTECTION IN TRANSIT. THE ERECTOR IS RESPONSIBLE FOR PROTECTION OF MATERIALS AT ALL TIMES AFTER ARRIVAL AT DESTINATION. IF STORED TEMPORARILY, MEMBERS SHOULD BE PLACED ON BLOCKS & LEVELED, WELL OFF OF THE GROUND & SEPARATED WITH WOOD STRIPS SO THAT AIR CAN CIRCULATE AROUND EACH MEMBER. COVER THE TOP & SIDES WITH MOISTURE RESISTANT PAPER OR OPAQUE PLASTIC. USE NON-MARRING SLINGS WHEN HANDLING. ROOF COVERING SHOULD BE APPLIED SOON AFTER ERECTION. PROTECTIVE WRAPPING SHOULD REMAIN ON THE MEMBERS UNTIL DECK HAS BEEN INSTALLED & ROOFING APPLIED. HOWEVER, IF THE PAPER HAS BEEN TORN OR PARTIALLY REMOVED DURING STORAGE OR ERECTION, IT SHOULD BE REPLACED OR ENTIRELY REMOVED TO PREVENT DISCOLORATION OF LAM MEMBERS BY SUNLIGHT.

LAMINATED MEMBERS RECEIVE ONE FACTORY APPLIED COAT OF CLEAR WOOD SEALER. (FACTORY STAIN IS OPTIONAL AT EXTRA COST). IF THEY SHOULD BECOME WET DURING SHIPMENT OR INSTALLATION, OR IF THEY ARE CLEANED IN ANY WAY, THESE LAMINATED MEMBERS SHOULD BE UNIFORMLY RESEALED BEFORE ADDITIONAL STAINING OR FINISHING IS DONE IN THE FIELD.

DECKING WILL BE DELIVERED IN BANDED BUNDLES, WEIGHING APPROXIMATELY TWO TONS. BUNDLES SHOULD REMAIN BANDED UNTIL DECK IS TO BE INSTALLED. A FORKLIFT OR SMALL CRANE WILL BE REQUIRED FOR UNLOADING. BE SURE TO USE NON-MARRING SLINGS.

IT IS THE ERECTORS RESPONSIBILITY TO TALLY THE DECKING UPON ARRIVAL. NOTIFY "MANUFACTURER" AT ONCE OF ANY SHORTAGES.

METAL ROOFING NOTES:

CLEAR PROTECTIVE FILM MUST BE REMOVED FROM ALL METAL PRIOR TO INSTALLATION.

METAL ROOFING SHOULD BE STORED INDOORS OR WHEN STORED OUTSIDE IT SHOULD BE STORED UP ON BLOCKS WITH FINISHED FACE UP AND SLOPED TO DRAIN.

DURING INSTALLATION, ALL METAL SHAVINGS MUST BE REMOVED IMMEDIATELY TO AVOID RUSTING OF PANELS.

CONTRACT NOTE:

Reference accepted proposal and/or executed contract for identification of items furnished. Any item not specifically included shall be provided by owner, installer or others. Some items are specifically noted as N.I.C. (not in contract).

LAMINATED WOOD SPECIFICATIONS:

SPECIES SOUTHERN PINE
LAMINATION THICKNESS 2" NOMINAL
STRESS COMBINATION SEE MEMBER DETAILS
ADHESIVE RESORCINOL
APPEARANCE GRADE ARCHITECTURAL
FINISH SEAL
PROTECTION INDIVIDUAL WRAP
PRESERVATIVE TREATMENT -- CCA 0.4 PCF (MIN) RETENTION @ C-1, TREATED PRIOR TO GLUING
HARDWARE PER DETAILS & LIST

SOLID TIMBER SPECIFICATIONS:

2 x 4 Nailer #1 SYP, S4S, KD, Seal
2 x 6 Fascia #1 AYC, S4S, KD, Seal
2 x 8 Roof Deck #1 SYP, T&G, SIL, CM, EV1S, KD, Seal
Deck furnished in specified lengths (S/L), not precision end trimmed (PET), field cutting required.

ROOF UNDERLAYMENT SPECIFICATIONS:

TWO LAYERS OF COVERPRO 2000 SYNTHETIC UNDERLAYMENT (FL PRODUCT APPROVAL 17873.2). ATTACH UNDERLAYMENT IN COMPLIANCE WITH PRODUCT APPROVAL OR BUILDING CODE REQUIREMENTS, WHICHEVER IS MORE STRINGENT.

WOOD SHOP NOTES:

- Materials, Manufacture and Quality Control of glulam shall be in conformance with, "American National Standard for Wood Products-Structural Glued Laminated Timber ANSI A190.1-2017".
- Members shall be marked (in an unseen location) with an AITC or APA/EWS Quality Mark and, in addition, an AITC or APA/EWS Certificate of Conformance shall be provided to indicate conformance with "ANSI A190.1-2017".

STEEL & HARDWARE SHOP NOTES:

- All steel plate to be ASTM A572 Grade 50.
- All welding is to be done in accordance with latest AWS standards. If welds are not specified, all welds are to develop full strength of all component parts.
- All fabricated steel to be powder coated; color selected by owner.
- Hardware (bolts, nuts, washers, etc.) to be hot-dipped galvanized (HDG). Shop to verify hole tolerances and tolerances of threaded parts for compatibility of the galvanized parts only.

ERECTION NOTES:

All wood members must be properly braced until the complete structural system has been constructed. Correction of minor misfits and a reasonable amount of reaming or alignment with drift pins will be considered a legitimate expense of erection.

In the event of error, defect in materials, and/or workmanship of shop work which prevents proper assembling and fitting up of parts by the moderate use of drift pins, or reaming, immediately report to the seller and obtain seller's approval of the method of correction.

Pre-drill wood for screws and nails if necessary to avoid splitting.

NOTE: This building has been designed as a free standing, open structure. If walls are to be added, or if the building is to adjoin another structure, or if other modifications are to be made, the structure must be re-engineered prior to these modifications (by others).

DESIGN CRITERIA:

Florida Building Code 8th Ed. (2023)
Type of Construction: Type V-B
Occupancy Classification: Assembly A-3
Building Risk Category II
Mean Roof Height = 9'-6"
Building Area = 560 ft²
Building Volume = 5,320 ft³
No. of Occupants = 37 (15 ft² per person)

ROOF DL

Metal Roofing 0.9 psf
Underlayment 0.1 psf
2" Nom. T&G Deck 4.4 psf
Misc. 1.6 psf
Total = 7.0 psf + weight of framing

FLOOR LL

L = 100 psf

ROOF LL

L_r = 20 psf

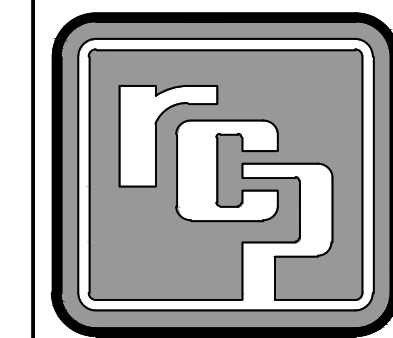
WIND LOAD

V_{ult} = 157 mph, V_{asd} = 122 mph
Exposure 'C', Open Building w/ GC₀ = 0
Component & Cladding Ultimate Wind Pressures: See "ROOF PLAN" on this sheet

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INTERGENERATIONAL RECREATION CENTER
VERO BEACH, FL

RCP SHELTERS, INC.
2100 SE RAYS WAY, STUART, FL 34994
PO BOX 25, STUART, FL 34995 - 0025
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Digitally signed by Daniel P Seymour
Date: 2024.04.02 14:07:00 -05'00'

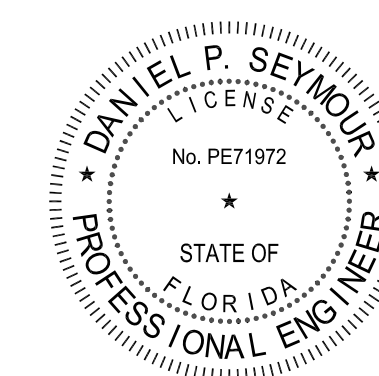
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FL PE. NO.: 71972

DESIGN CERTIFICATION FOR:

BUILDING SIZE: 20' x 28'
BUILDING LOCATION: VERO BEACH, FL
THIS CERTIFICATION OF DRAWINGS IS FOR THE ONE BUILDING ONLY AT THE SITE LISTED ABOVE. IT IS VALID ONLY IF THE MATERIALS SHOWN ON THESE DRAWINGS ARE FURNISHED BY RCP SHELTERS, INC. AND ONLY IF MATERIALS ARE PAID FOR IN FULL.

IF MODIFICATION IS MADE WITHOUT EXPRESSED WRITTEN CONSENT OF RCP SHELTERS, INC., OR IF PAYMENT IS NOT MADE IN FULL, THEN CERTIFICATION BECOMES NULL & VOID.



PROJ. NO.:

24-070-A

DRAWN: DPS 4-2-24

CHKD:

REV 1:

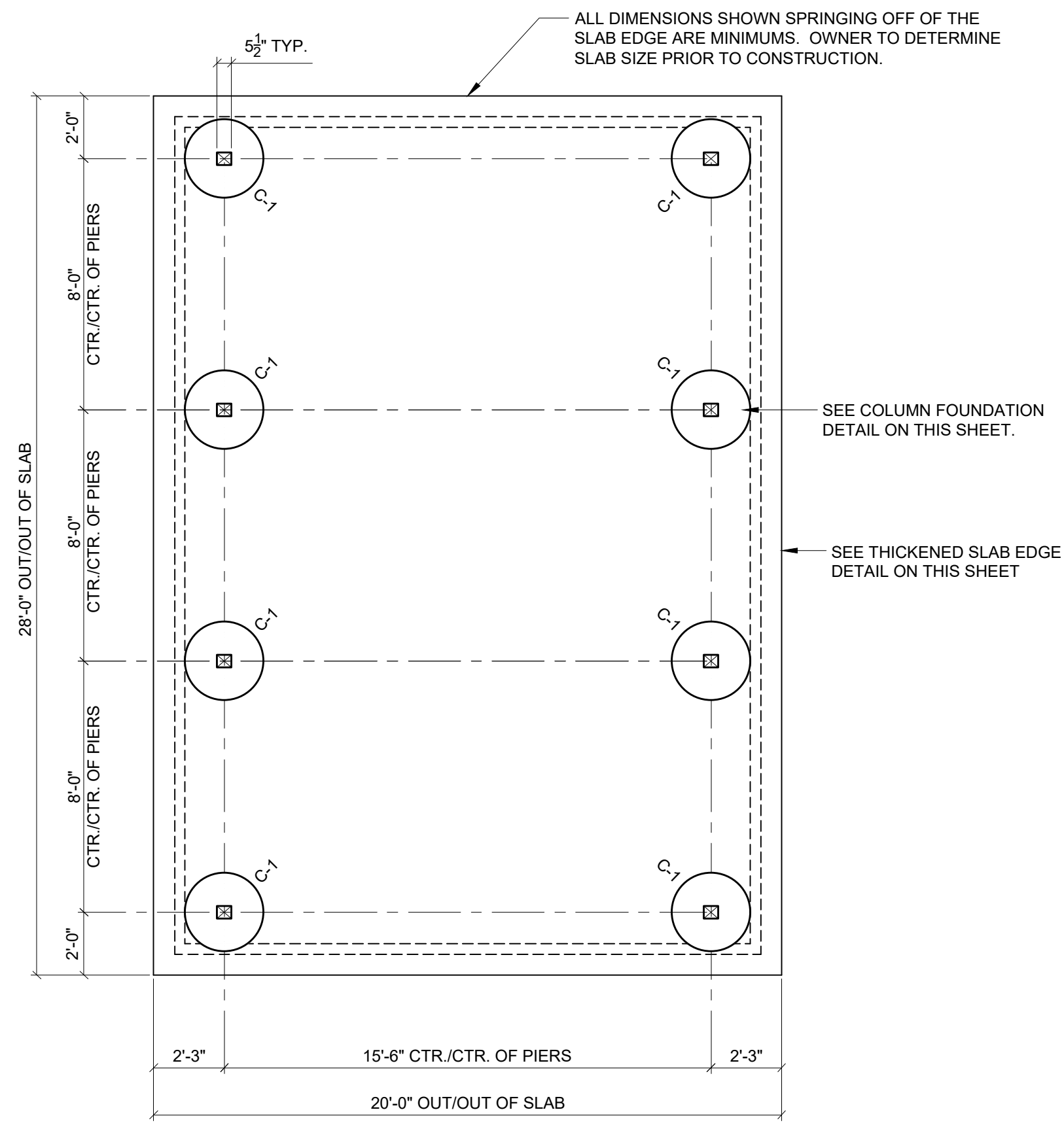
REV 2:

REV 3:

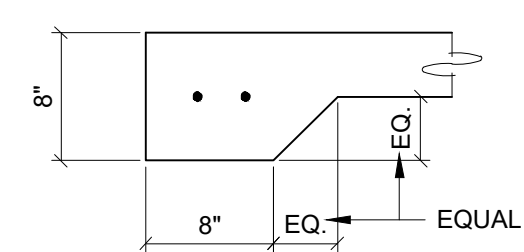
SHOP DWG NO.: 24-070

EEC JOB NO.: 15051 R

SHEET NO.:



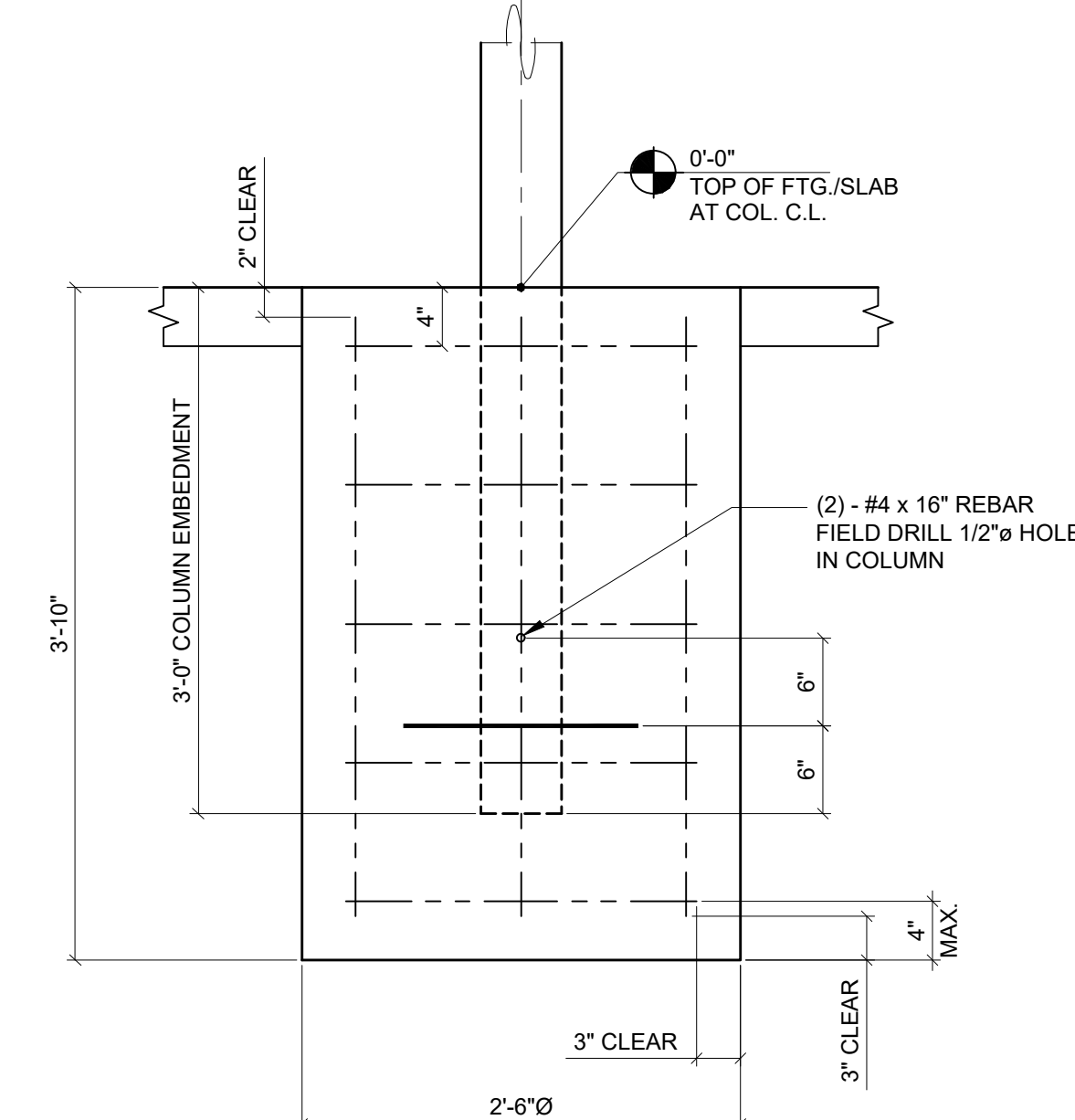
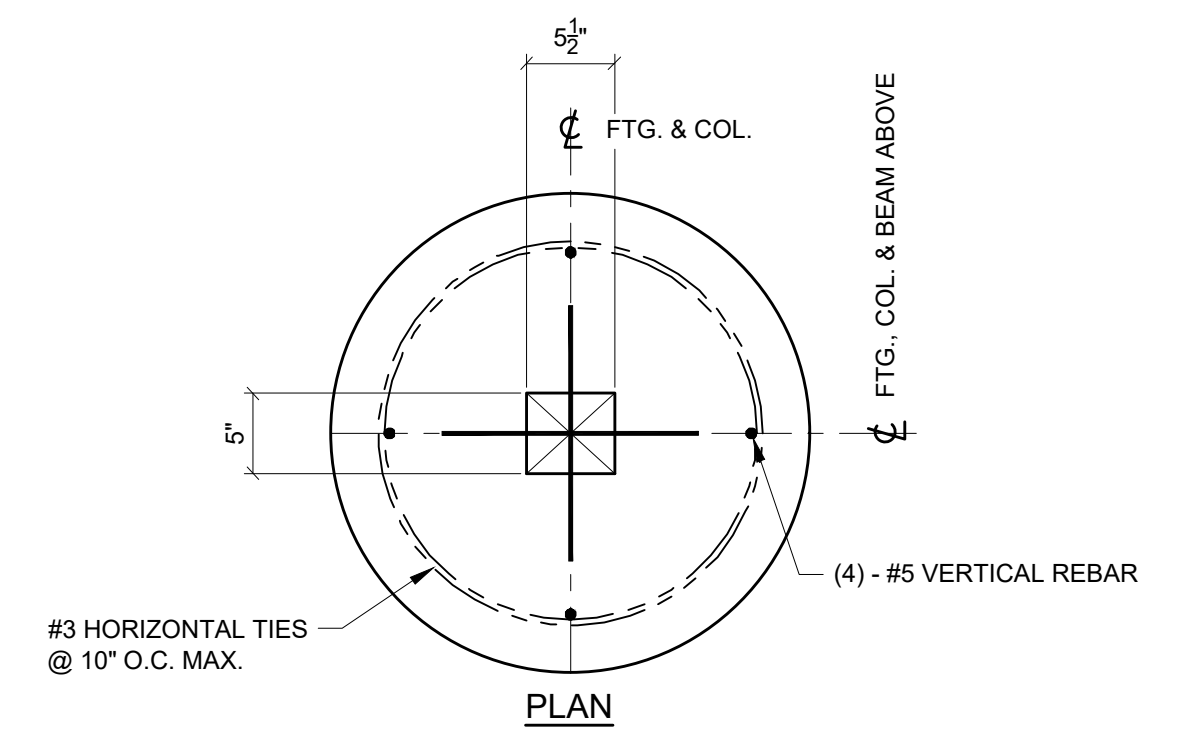
FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



THICKENED SLAB EDGE DETAIL

COLUMN BASE REACTIONS:

↑	$V_{DL+3/4(L+0.6*WL)} = 3,060\#$
↓	$V_{0.6*DL+0.6*WL} = -1,270\#$
→	$H_{DL+0.6*WL} = 600\#$
⤵	$M_{0.1, DL+0.6*WL} = 4,160\#-ft$



COLUMN FOOTING DETAIL

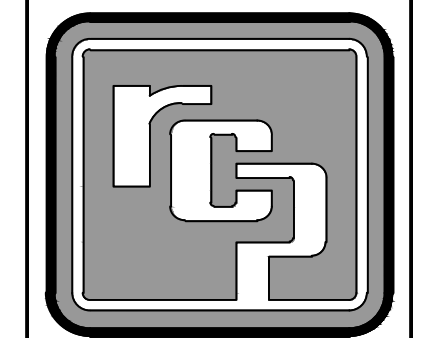
- CONCRETE NOTES:**
- Remove all organic material and topsoil from slab area. Verify suitability of subgrade. Footings are to bear on undisturbed, natural soil or engineered fill. Both are to be compacted to 95% Proctor density.
 - Prepare slab with min. 8" compacted sand, gravel, or crushed rock.
 - Concrete slab to be 4" thick. Reinforce slab with 6x6-w1.4xw1.4 welded wire fabric at mid-depth. Lap splices 8". Alt.: Fiber mesh admixture (min. 1.5#/c.y., fibrillated polypropylene).
 - Edge of slab to be thickened to min. 8" deep x 8" wide reinforced with 2-#4 continuous rebars. Lap splices min. 24".
 - Install crack control joints (3/16" wide x 1" deep) at 8' to 12' o.c.
 - Concrete slabs in open areas are to be sloped for drainage from center to edge and away from columns. Surface is to be lightly broomed or have a wood troweled finish.
 - Concrete slab, foundation, re-bar, wire mesh, leveling nuts, grout & anchor bolts (if required) are N.I.C.
 - All concrete reinforcing steel to be grade 60, deformed bars.
 - F_c of concrete to be 3000 psi @ 28 days.
 - All concrete work to be in accordance w/ latest ACI code.
 - Assumed allowable soil bearing pressures: 1500 psf vertical bearing, 150 pcf passive lateral bearing. It is the Owner's responsibility to verify that the allowable soil bearing values at the site meet or exceed these assumed values. If the actual values are lower than the assumed values, the foundations must be redesigned (N.I.C.).
 - Reinforcement shall be securely held in place while placing concrete. If required, additional bars, stirrups or chairs shall be provided to furnish support for bars.

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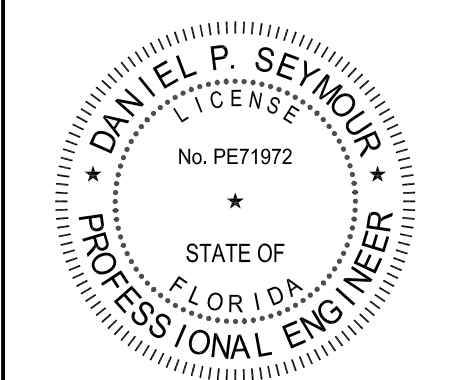
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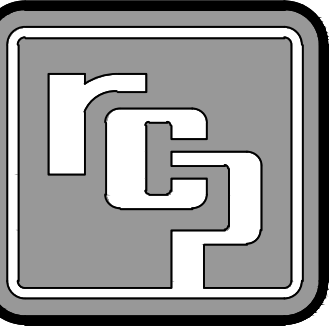
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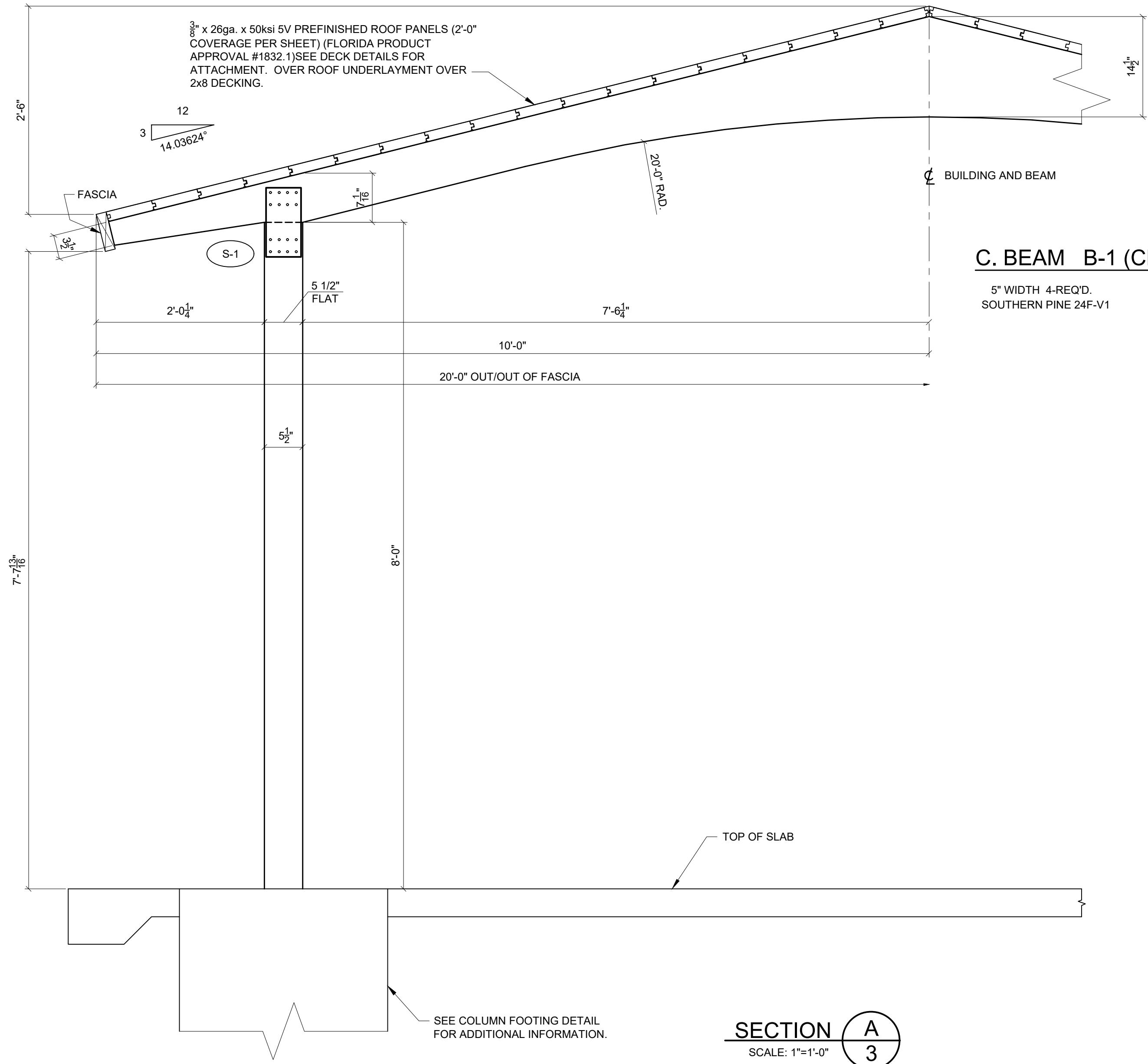
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PROJ. NO.:	24-070-A	
DRAWN:	DPS	4-2-24
CHKD:		
REV 1:		
REV 2:		
REV 3:		
REV 4:		
SHOP DWG NO.:	24-070	
EEC JOB NO.:	15051 R	
SHEET NO.:		

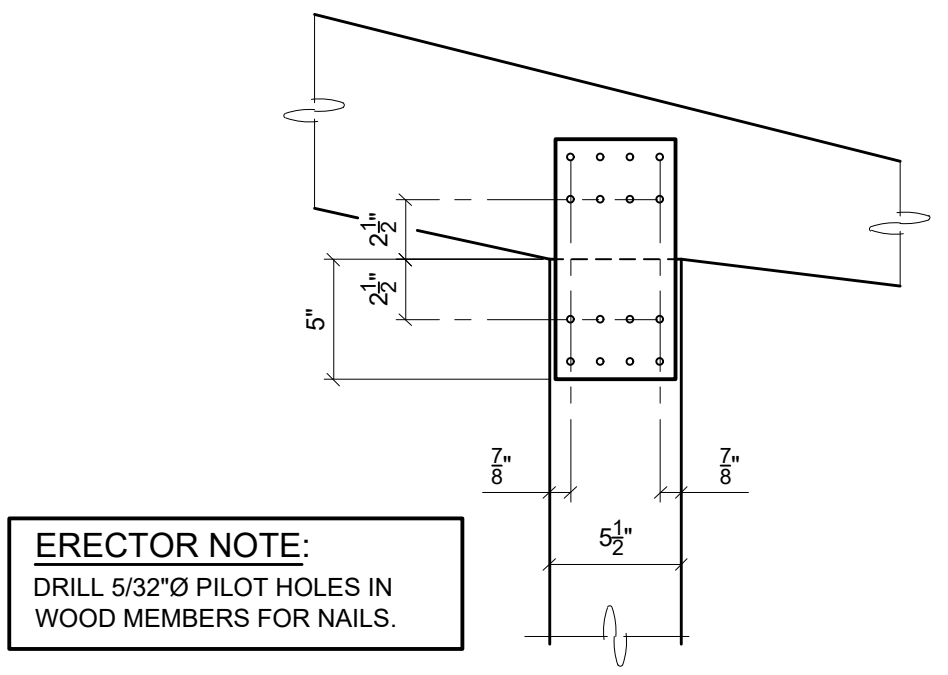


PROJ. NO.:	24-070-A	
DRAWN:	DPS	4-2-24
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REV 1:		
REV 2:		
REV 3:		
REV 4:		
SHOP DWG NO.:	24-070	
EEC JOB NO.:	15051 R	
SHEET NO.:	3 OF 5	



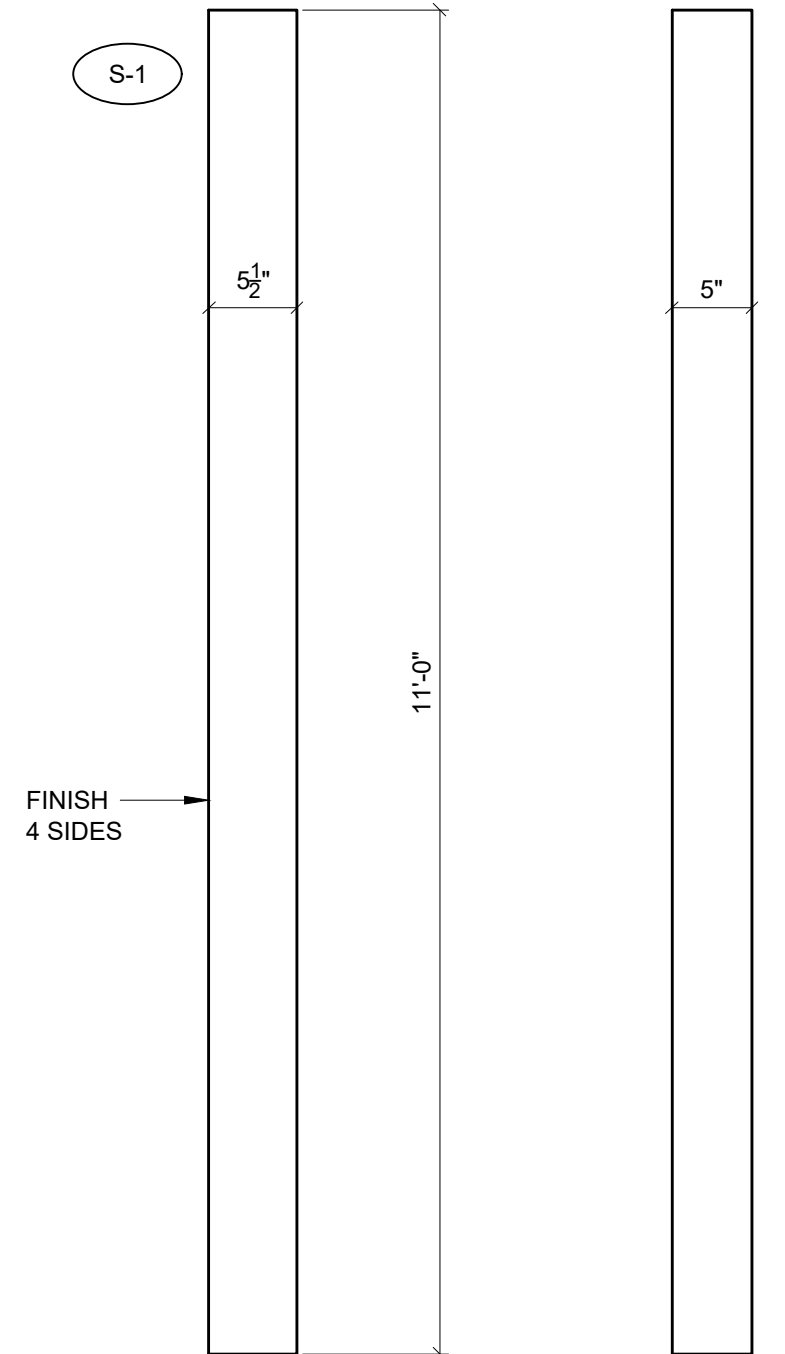
C. BEAM B-1 (CB-20-03-042-A)
 5" WIDTH 4-REQ'D.
 SOUTHERN PINE 24F-V1

SECTION A
 SCALE: 1"=1'-0"



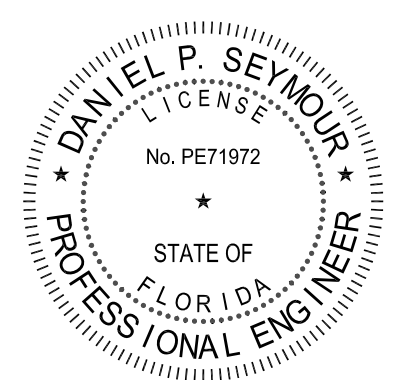
ERECTOR NOTE:
 DRILL 5/32"Ø PILOT HOLES IN WOOD MEMBERS FOR NAILS.

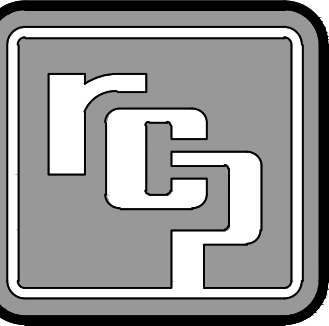
CONN S-1 8-req'd.
 2 - MK-1 PLATE (SP000005x10C00.2500)
 32 - 4 GA. x 2 1/2" ANNULAR RING NAIL, GALV.



COLUMN C-1
 COMB 50 (1:12)
5" x 5 1/2"
TREATED
8-req'd.

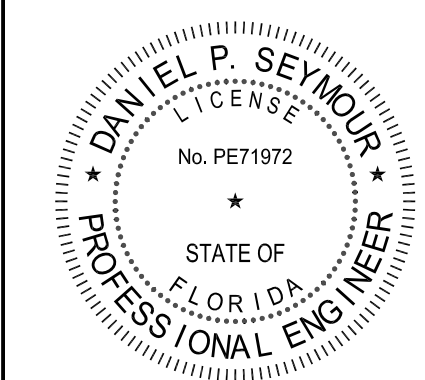
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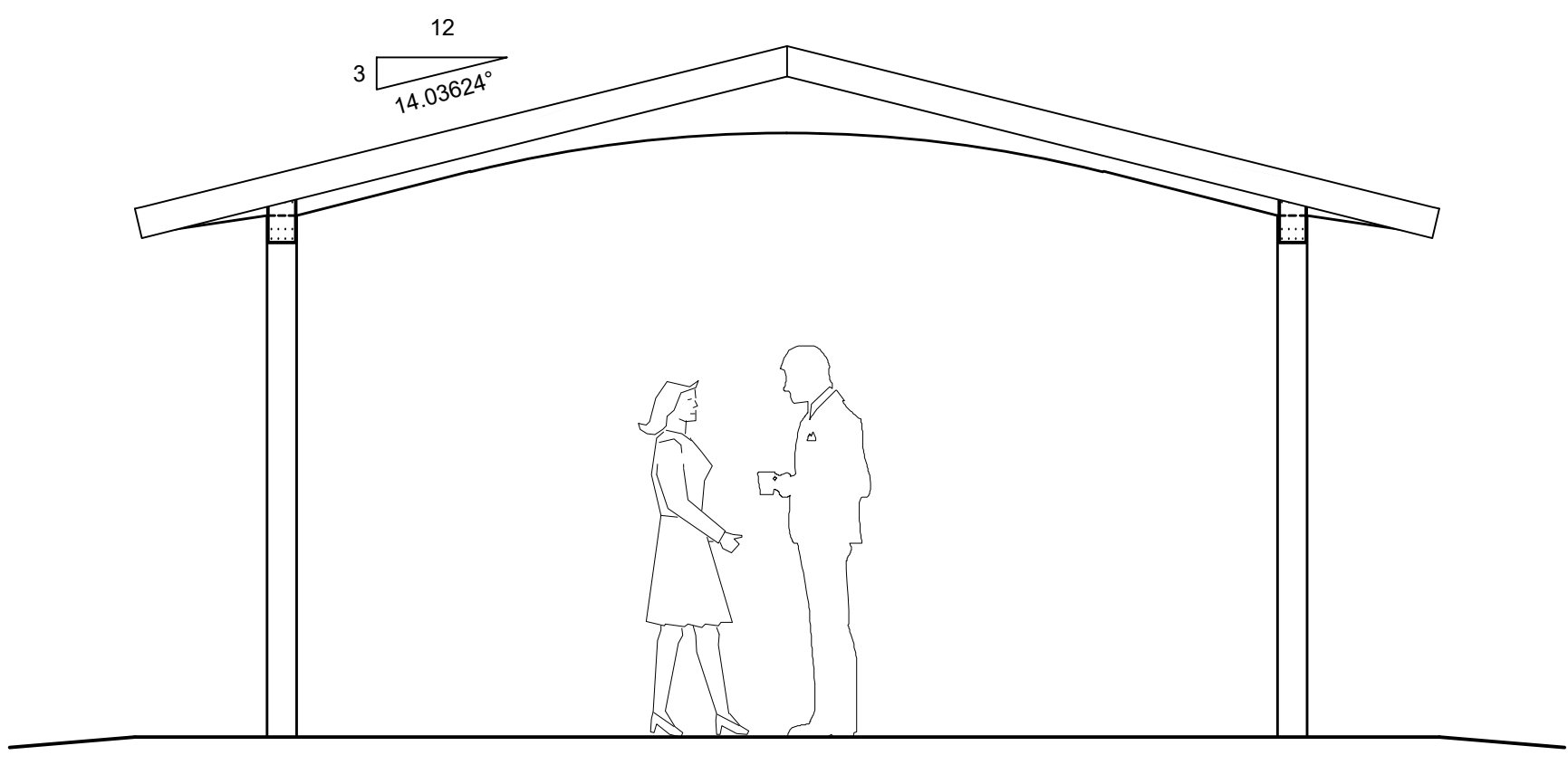


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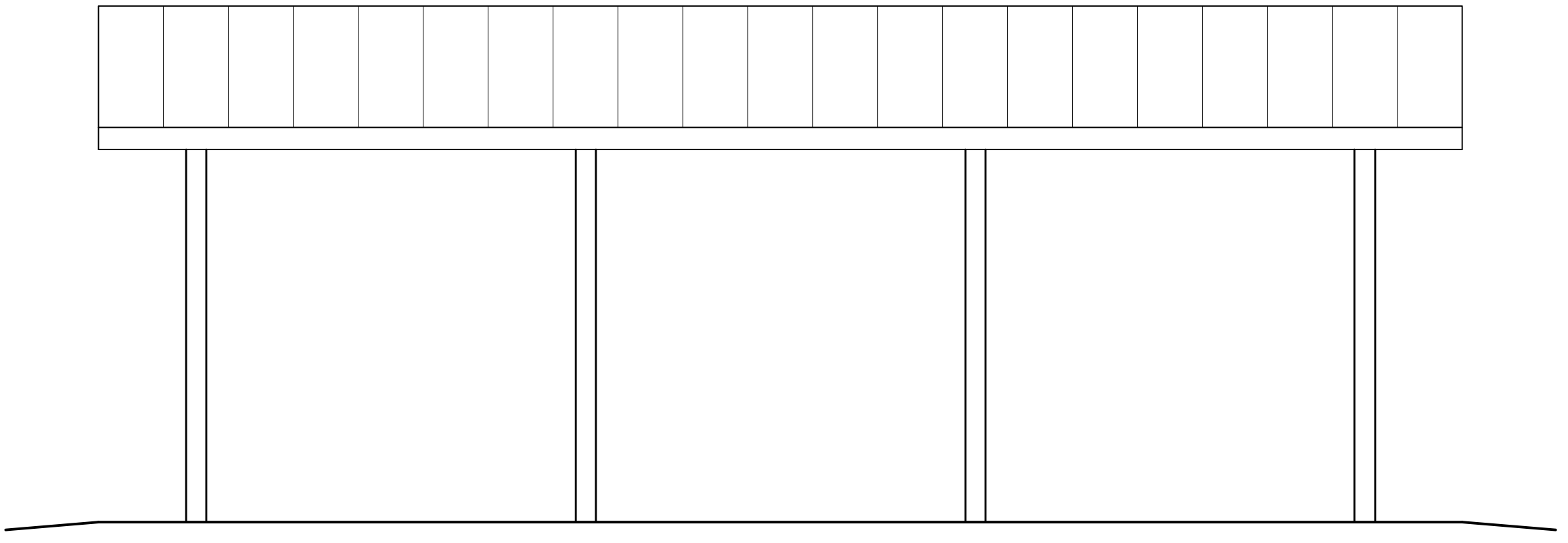
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DRAWN:	DPS	4-2-24
CHKD:		
REV 1:		
REV 2:		
REV 3:		
REV 4:		
SHOP DWG NO.:	24-070	
EEC JOB NO.:	15051 R	
SHEET NO.:		



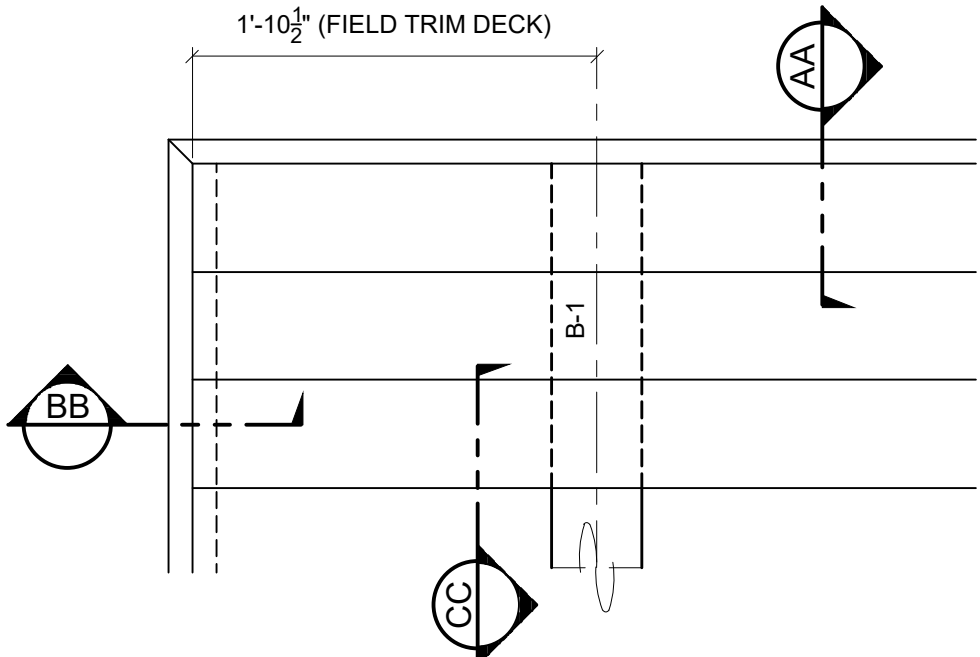
END ELEVATION
 SCALE: 3/8" = 1'-0"



SIDE ELEVATION
 SCALE: 3/8" = 1'-0"

TYPICAL DECK LAY-UP

1. START LAYING DECK AT EAVE W/ TONGUES UP.
2. DRIVE COURSES TIGHT W/ BLOCKING.
3. TOE NAIL & FACE NAIL AT EACH SUPPORT (BEAMS) USING 16d COMMON NAILS.
4. SNAP CHALK LINE AT BUILDING RAKE & CUT DECKING STRAIGHT AND SQUARE.
5. DECKING IS FURNISHED IN SPECIFIED LENGTHS. ALTERNATE COURSES 10'/18" AND 18'/10"



DECK PLAN AT CORNERS

FASCIA NOTES:

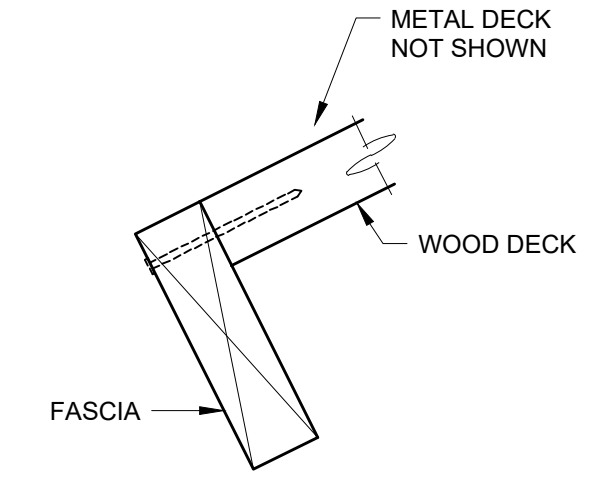
1. ALL FASCIA CORNERS AND SPLICES ARE TO BE MITERED.
2. SEE DETAILS A & B FOR SPLICE DETAILS.
3. ATTACH FASCIA WITH 10d HDG CASING NAILS:
 - a. TO 2x4 NAILER - 24" O.C.
 - b. TO BEAM ENDS - 3 NAILS PER FASCIA
 - c. TO ENDS OF ROOF DECKING - 1 NAIL PER DECK BOARD
 - d. AT CORNERS - 2 NAILS EACH DIRECTION
 - e. OTHER LOCATIONS - 24" O.C. TO ROOF DECKING

2 x 4 NAILER

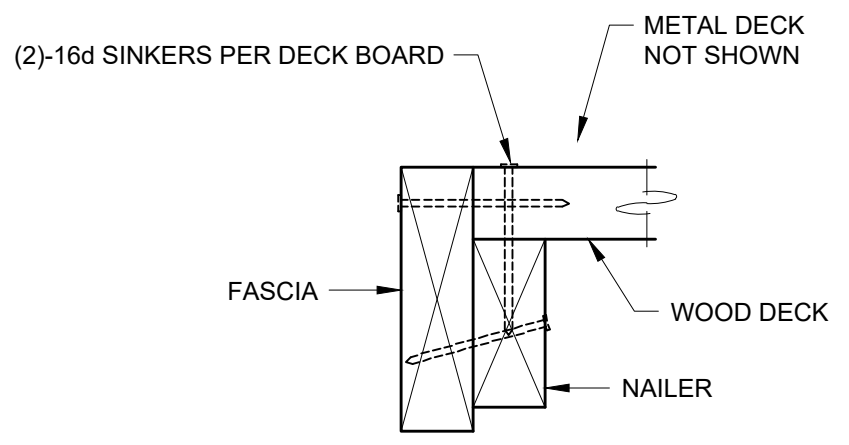
- A. MITER ALL SPLICES
- B. NAIL SPLICES TOGETHER WITH (2) 10d HDG CASING NAILS, DRIVE NAILS AT AN ANGLE TO AVOID PUNCHING THRU FASCIA.

FASCIA LAY-UP

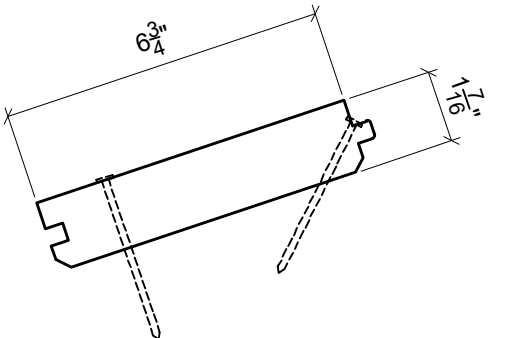
AT EAVE 12'/8 1/2'
 AT RAKE 12'.



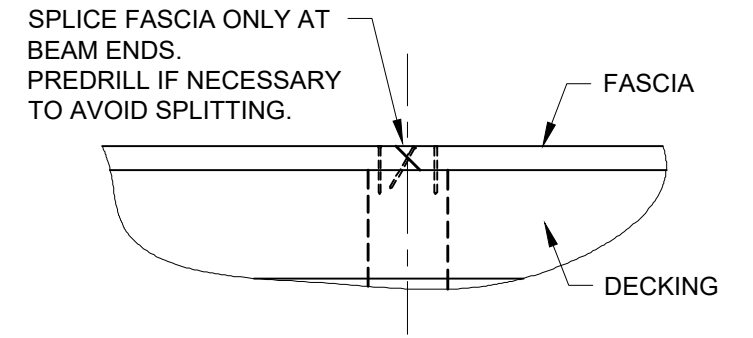
SECTION AA



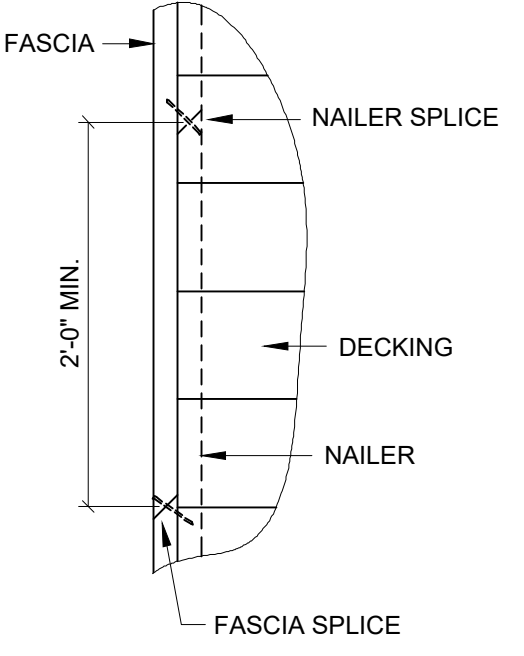
SECTION BB



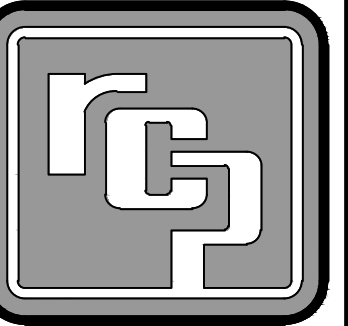
SECTION CC



DETAIL A

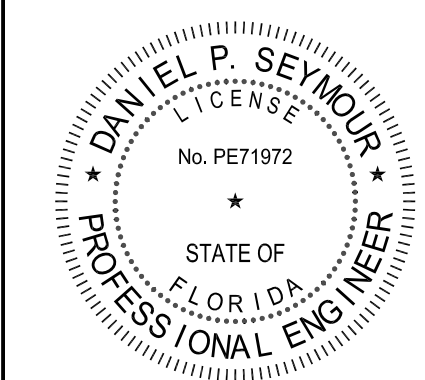


DETAIL B

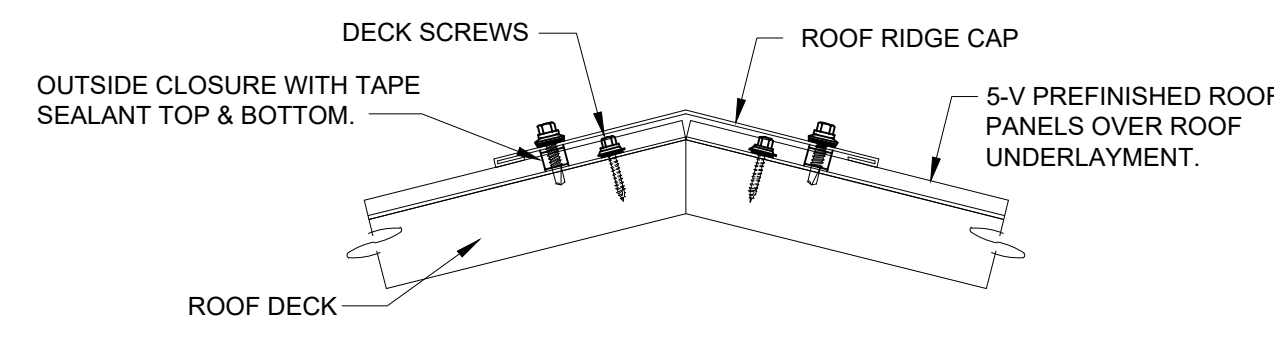


PROJ. NO.: 24-070-A
 DRAWN: DPS 4-2-24
 CHKD:

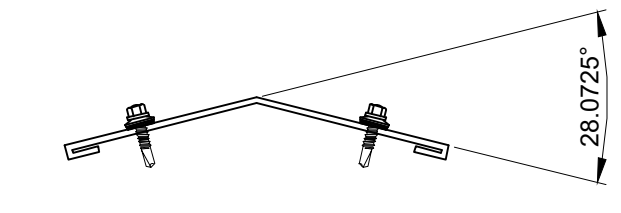
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REV 1:
 REV 2:
 REV 3:
 REV 4:
 SHOP DWG NO.: 24-070
 EEC JOB NO.: 15051 R
 SHEET NO.:



DECK DETAIL @ RIDGE

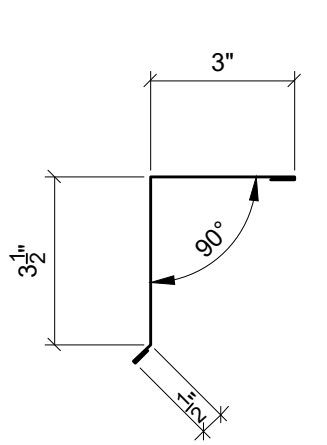


9" RIDGE CAP

30 LN. FT. REQUIRED

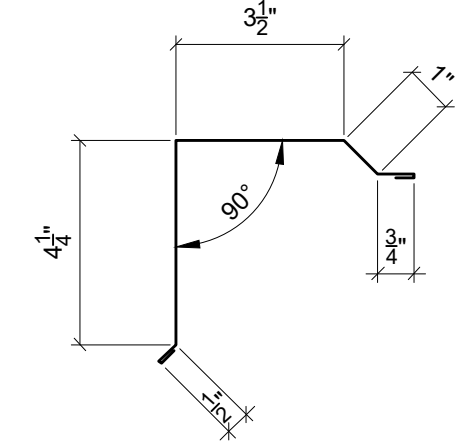
INSTALLATION:
 FASTEN RIDGE CAP TO EACH ROOFING PANEL AT HIGH RIB. (1) LAP SCREW PER RIB, PER SIDE.

THE ACTUAL ROOF PITCH MAY VARY FROM THESE GENERAL DETAILS.



EAVE TRIM

60 LN. FT. REQUIRED



RAKE TRIM

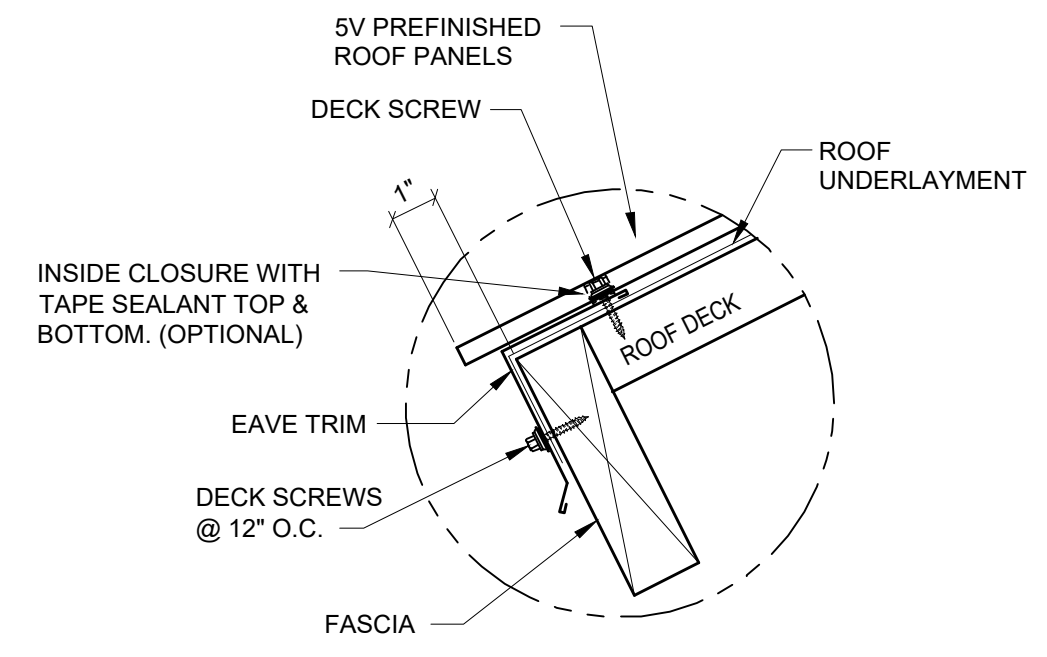
48 LN. FT. REQUIRED

METAL ROOFING NOTES:

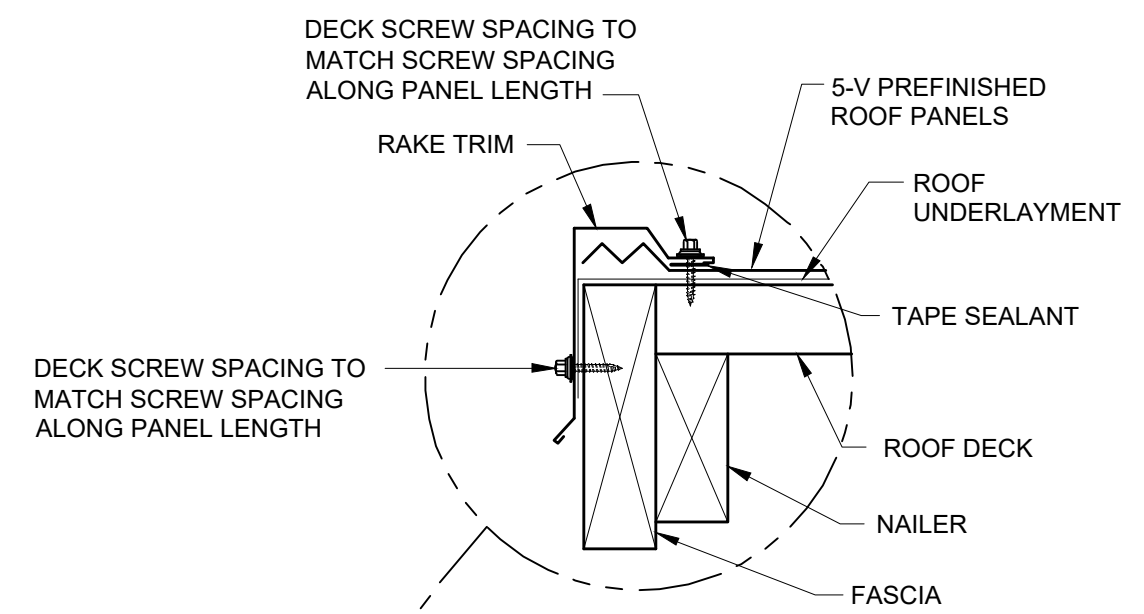
CLEAR PROTECTIVE FILM MUST BE REMOVED FROM ALL METAL PRIOR TO INSTALLATION.

METAL ROOFING SHOULD BE STORED INDOORS OR WHEN STORED OUTSIDE IT SHOULD BE STORED UP ON BLOCKS WITH FINISHED FACE UP AND SLOPED TO DRAIN.

DURING INSTALLATION, ALL METAL SHAVINGS MUST BE REMOVED IMMEDIATELY TO AVOID RUSTING OF PANELS.

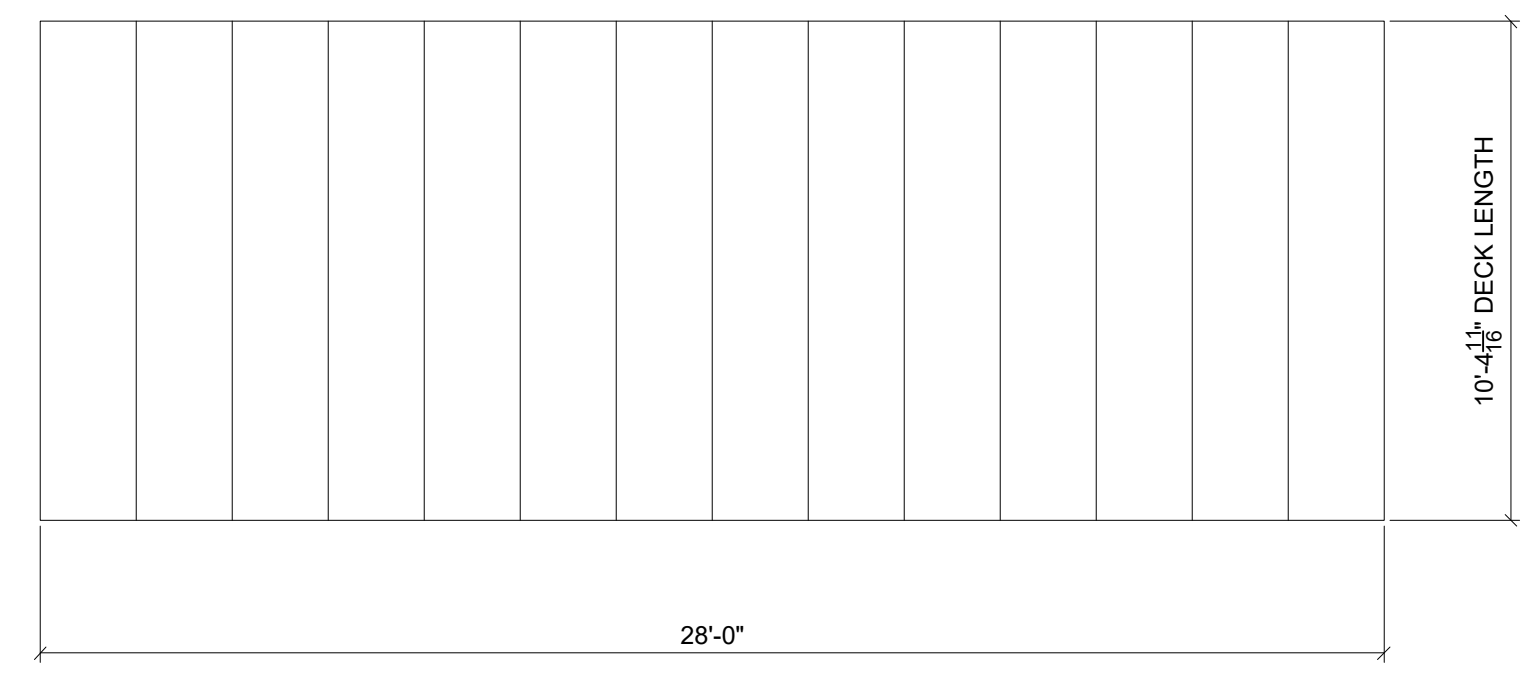


EAVE DETAIL



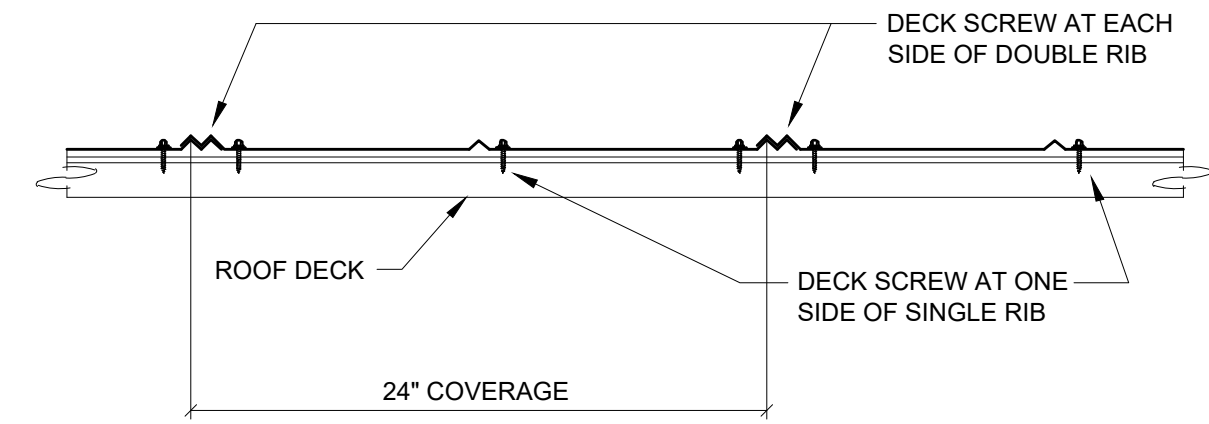
SECTION THRU ROOFING PANEL @ RAKE

SELF-DRILLING SCREW SPECIFICATIONS:
 DECK SCREW = 9-15x1 WOODGRIP HWH SHARP POINT
 LAP SCREW = 1/4-14x7/8 IMPAX LAP, 5/16" HEX HEAD

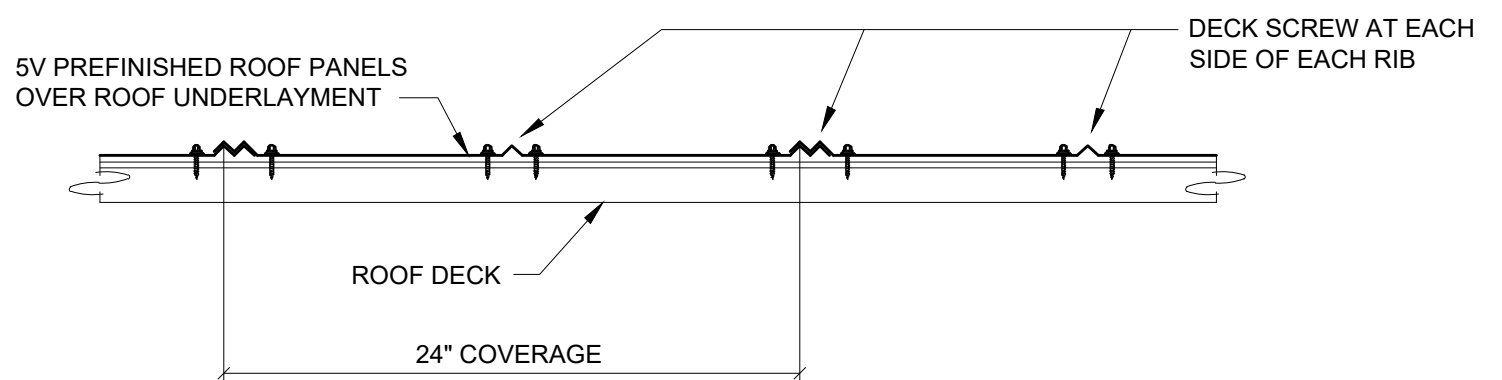


TRUE PLAN AT ROOF PLANE 2-REQ'D

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



SECTION THRU ROOFING PANEL @ INTERIOR



SECTION THRU ROOFING PANEL @ EAVE

(METAL DECK ATTACHMENT ALONG HIP AND/OR RIDGE IS SAME AS AT THIS SECTION)

