SITE PLANS
FOR:

CRS - LAKE CITY
SR 247 AT CR 242

COLUMBIA COUNTY, FLORIDA

SECTION 20, TOWNSHIP 4 SOUTH, RANGE 16 EAST

SUBMITTED TO:

COLUMBIA COUNTY
SUWANNEE RIVER WATER MANAGEMENT DISTRICT
FLORIDA DEPARTMENT OF TRANSPORTATION

REQUIRED PERMITS

- () COLUMBIA COUNTY SITE PLAN APPROVAL PERMIT
- () COLUMBIA COUNTY PARKING VARIANCE
- () DOH FOR WELL AND SEPTIC (BY OTHERS)
- () FDEP NOI
- () SRWMD 10/2 SELF CERTIFICATION
- () FDOT DRIVEWAY CONNECTION PERMIT
- () FDOT DRAINAGE CONNECTION PERMIT

DEVELOPER/APPLICANT

MATT CASON, PRESIDENT
CONCEPT DEVELOPMENT, INC.
3324 W UNIVERSITY AVE #151
GAINESVILLE, FL. 32607
(352) 333-3233

OWNER

RALPH NORRIS - TRUSTEE OF THE RALPH
NORRIS REVOCABLE LIVING TRUST
319 SW RALPH TERRACE
LAKE CITY, FL 32024
COLUMBIA PARCEL NO. 20-4S-16-03077-002

ENGINEER OF RECORD

DANIEL H. YOUNG, P.E.
CHW
11801 RESEARCH DRIVE
ALACHUA, FL 32615
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SURVEYOR OF RECORD

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LANDSCAPE ARCHITECT

BRIAN D. BORTON, R.L.A.
BORTON DESIGN, INC.
1354 N. KYLE WAY
SAINT JOHNS, FLORIDA 32259
(904) 287-1996

ZONING: C-1 COMMERCIAL INTENSIVE

TRAFFIC STATEMENT:

PROPOSED LAND USE	ITE LU	AREA	RATE	AADT	AM PEAK	PM PEAK
VARIETY STORE	(814)	9,100SFT	63.47	578	29	62

1.) BASED ON ITE 10TH EDITION AND GROSS BUILDING SQUARE FOOTAGE.

PARKING CALCULATION: 9,100 SF AT 1 SPACE PER 150 SF OF NON STORAGE FLOOR AREA = 53 SPACES REQUIRED
PROVIDED: 30 SPACES (VARIANCE SUBMITTED)

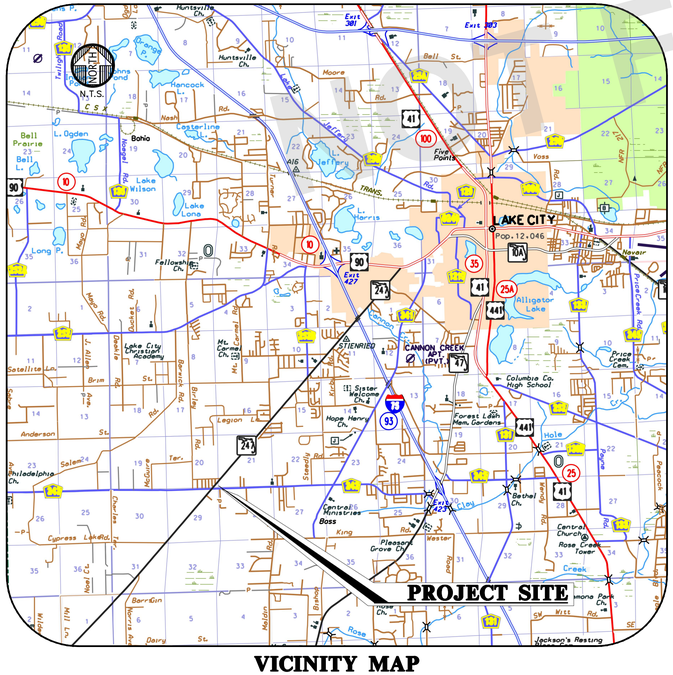
REQUIRED: 2 HANDICAP SPACES; PROVIDED: 2 HANDICAP SPACES

DEVELOPMENT DATA

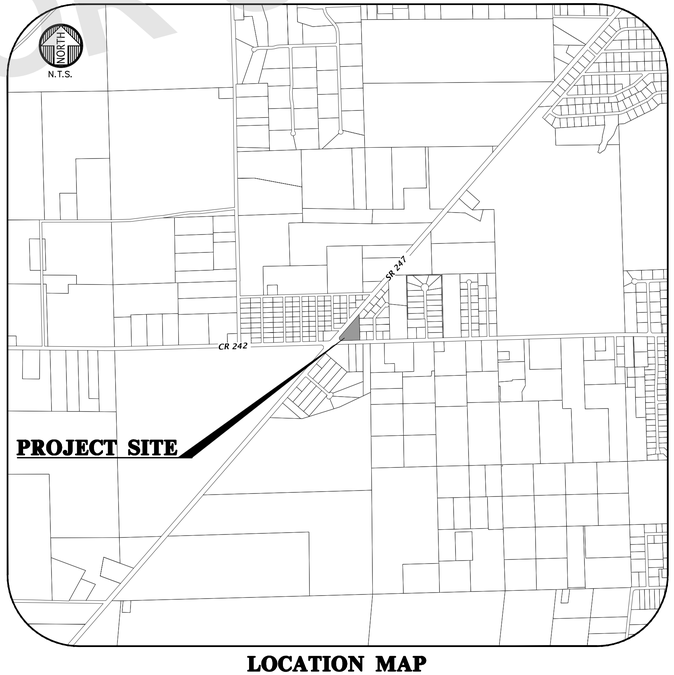
LAND USE: GENERAL COMMERCIAL
ZONING: CN - COMMERCIAL, NEIGHBORHOOD

	ON-SITE	
DEVELOPMENT AREA:	133,729 S.F.	3.07 AC
BUILDING AREA:	9,100 S.F.	6.80 %
ROADS/CURB/CONCRETE:	22,718 S.F.	16.99 %
STORM MAGEMENT FACILITY	52,550 S.F.	39.29 %
IMPERVIOUS AREA:	31,818 S.F.	23.79 %
OPEN SPACE:	49,085 S.F.	14.27 %
PARKING SPACES	30	
MAX BUILDING HEIGHT:	LESS THAN 22 FEET	
TAX PARCEL: 20-4S-16-03077-002		

SHEET INDEX



VICINITY MAP



LOCATION MAP

BEFORE YOU DIG !
CALL SUNSHINE STATE ONE CALL OF FLORIDA
AT LEAST TWO FULL BUSINESS DAYS BEFORE
DIGGING OR DISTURBING EARTH

811 Know what's **below.** **Call** before you dig.

1-800-432-4770

11801 Research Drive
Alachua, FL 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-9075
CHW Professional Consultants

SCALE: N/A
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/BID REVISIONS:

SUBMITTALS: 2/15/21 - FIRST SUBMITTAL

CLIENT: CONCEPT DEVELOPMENT, INC.
PROJECT: CRS LAKE CITY - SR 247 AT CR 242
SHEET TITLE: COVER SHEET AND INDEX

TECHNICIAN: K MERRITT
DESIGNER: C CASTLETON
QUALITY CONTROL: D YOUNG
PROJECT NUMBER: 20-0425

DANIEL H. YOUNG

Daniel H Young, P.E.
State of Florida, Professional Engineer, License No. 70780

This item has been digitally signed and sealed by Daniel H. Young, P.E. on the date indicated here. 02/16/2021

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

FL PE No. 70780

SHEET NO: C0.00

Tech: kvtm Plot Date: Feb 16,2021 9:03am Filename: H:\2020\20-0425\Department\04_Engineering\02_Drafts\Production Files\20-0425 C0.00 CV CRS LakeCity.dwg

GENERAL NOTES

1. THE TOPOGRAPHIC AND EXISTING INFORMATION SHOWN HEREON WERE TAKEN FROM AN ALTA/NSPS LAND TITLE SURVEY PREPARED BY CHW, AND DATED DECEMBER 11, 2020.

2. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAS BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. THE RESPECTIVE UTILITY COMPANIES SHALL RELOCATE ALL UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING THE RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.

3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE APPROPRIATE UTILITY COMPANIES IN ORDER TO ALLOW MARKING OF THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES IN ADVANCE OF CONSTRUCTION BY CALLING THE FLORIDA SUNSHINE STATE ONE-CALL CENTER, INC. AT 1-800-432-4770 OR 811. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY "SUNSHINE" 48 HOURS PRIOR TO ANY CLEARING OF CONSTRUCTION TO IDENTIFY ALL UTILITY LOCATIONS. NO CONSTRUCTION ACTIVITY MAY OCCUR UNTIL THE UTILITIES HAVE BEEN PROPERLY MARKED.

4. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL LOCATION AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF THE PROJECT ENVELOPE SHOWN PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CALL ALL UTILITY COMPANIES TO HAVE THE LOCATIONS OF ALL UTILITIES FIELD MARKED PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONTINUING CONSTRUCTION.

5. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.

6. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS BEFORE COMMENCING CONSTRUCTION WORK, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.

7. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK INCLUDING LANDSCAPING.

8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY AND/OR MUNICIPALITY INSTRUCTIONS.

9. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPES ARE BEING PLACED. DEWATERING SHALL BE USED AS REQUIRED, AND PERMITTED THROUGH LOCAL GOVERNMENTAL AGENCIES AND WATER MANAGEMENT DISTRICT PER CURRENT REGULATIONS AT THE SOLE COST OF THE CONTRACTOR.

11. CONTRACTOR TO REVIEW GEOTECHNICAL REPORT AND BORINGS PRIOR TO BIDDING THE PROJECT AND FOLLOW OUTLINED CONSTRUCTION TECHNIQUES.

12. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SERVICES OF AN APPROVED TESTING LABORATORY AND/OR SOILS ENGINEER, APPLICABLE REGULATORY AGENCIES, AND AS MAY BE FOUND IN THE ENGINEERING CONSTRUCTION DRAWINGS OR SPECIFICATIONS. CONTRACTOR TO VERIFY ALL TESTING WITH THE OWNER PRIOR TO COMMENCING CONSTRUCTION. UPON COMPLETION OF THE WORK, THE TESTING LABORATORY AND/OR SOILS ENGINEER MUST SUBMIT TO THE OWNER'S ENGINEER CERTIFICATIONS STATING THAT ALL REQUIREMENTS HAVE BEEN MET.

13. INSTALL SILT FENCE PRIOR TO SITE DEMOLITION OR NEW SITE CONSTRUCTION. INSTALL SILT FENCE PER FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL AND PROVIDE TOE-IN. THE CONTRACTOR SHALL MAINTAIN THE SILT FENCE IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE PROJECT SILT FENCE SHALL BE INSPECTED DAILY AND ANY CORRECTIVE MEASURES SHALL BE COMPLETED WITHIN 24 HOURS.

14. ALL TREE BARRICADES AND SILT FENCING SHALL BE INSTALLED AND INSPECTED BY COLUMBIA COUNTY PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION ACTIVITIES.

15. THE CONTRACTOR IS TO PREPARE THE SITE PRIOR TO BEGINNING ACTUAL CONSTRUCTION IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

16. ALL DELETERIOUS MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER'S ENGINEER OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED AND REMOVED FROM THE SITE. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE AREAS.

17. CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS SHALL BE SODDED, SEEDED, MULCHED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, AS DIRECTED BY THESE PLANS, IMMEDIATELY FOLLOWING CONSTRUCTION PER LOCAL INSPECTOR.

18. WORK BEING PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON THE SITE BY OTHER CONTRACTORS AND/OR UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.

19. ALL PAVEMENT DIMENSIONS SHOWN ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

20. THE GOVERNING STANDARDS AND SPECIFICATIONS, UNLESS STATED OTHERWISE SHALL BE PER FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS (FY 2020-21 ROAD CONSTRUCTION), AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JANUARY 2021, AS AMENDED BY CONTRACT DOCUMENTS. ALL MATERIALS AND METHODS SHALL MEET FDOT SPECIFICATIONS AND SHALL BE PRODUCED OR OBTAINED FROM AN FDOT APPROVED SOURCE.

21. ALL NEW TRAFFIC CONTROL DEVICES (SIGNS AND PAVEMENT MARKINGS) SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FDOT STANDARDS.

22. ALL STRIPING WITHIN THE FDOT RIGHT OF WAY SHALL BE PLACED FIRST AS TEMPORARY STRIPING FOLLOWED BY APPLICATION OF THERMOPLASTIC STRIPING 30 DAYS LATER.

23. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PROPER BENCHMARKS ON-SITE. EXISTING BENCH MARKS SCHEDULED FOR REMOVAL SHALL BE RELOCATED AT CONTRACTORS EXPENSE AND RE-ESTABLISHED BY A LICENSED SURVEYOR.

24. ALL HANDICAP RAMPS SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE AND AMERICANS WITH DISABILITIES ACT.

25. A PRE-CONSTRUCTION CONFERENCE SHALL BE REQUIRED. THE CONTRACTOR, ENGINEER OF RECORD, AND THE OWNER SHALL MEET WITH THE COLUMBIA COUNTY PUBLIC WORKS DEPARTMENT PRIOR TO INITIATION OF SITE CONSTRUCTION.

26. ANY CHANGE ORDER REQUESTS, SITE REVISIONS, AND PAY REQUESTS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD.

27. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NEEDED THROUGHOUT ALL CONSTRUCTION ACTIVITIES COVERED BY THESE PLANS. DEWATERING SHALL BE DONE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS, JANUARY 2021 EDITION, SECTION 120.

28. THE CONTRACTOR IS RESPONSIBLE FOR THE PERFORMANCE AND COST OF ALL CLEARING AND GRUBBING AND ALL WORK OF REMOVAL, DISPOSAL, AND REPAIR OR REPLACEMENT OF EXISTING IMPROVEMENTS WHERE SHOWN IN THE PLANS, OR ORDERED BY THE ENGINEER TO BE REMOVED, OR WHERE REQUIRED BECAUSE OF THE CONSTRUCTION OPERATIONS, IN ORDER TO CONSTRUCT THE PROPOSED IMPROVEMENTS (THIS INCLUDES BUT IS NOT LIMITED TO PROPOSED PIPING, STRUCTURES, UTILITIES, PAVING, CURBING, ETC.).

29. AN AS-BUILT SURVEY MAY BE REQUIRED BY REGULATORY AGENCIES. CONTRACTOR TO COORDINATE WITH PROJECT OWNER FOR COMPLETION OF AS-BUILT SURVEYS PRIOR TO PROJECT / PERMIT CLOSE-OUT.

MAINTENANCE OF TRAFFIC (MOT) NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR CREATING A MAINTENANCE OF TRAFFIC (MOT) PLAN FOR CONSTRUCTION ACTIVITY THAT OCCURS WITHIN THE PUBLIC RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO SIDEWALK WORK AND ACTIVITIES THAT REQUIRE A LANE (OR ROAD) CLOSURE, SUCH AS CONNECTION TO SEWER MANHOLES AND WATER MAINS. THE MOT PLAN MUST BE CREATED BY A REGISTERED PROFESSIONAL ENGINEER WHO IS CERTIFIED TO DO SO BY THE FDOT MOT CERTIFICATION TRAINING. THE MOT PLAN MUST ALSO BE IN ACCORDANCE WITH FDOT STANDARDS PLANS AND FDOT STANDARD SPECIFICATIONS REQUIREMENTS AND MUST BE REVIEWED AND APPROVED BY THE FDOT AND COLUMBIA COUNTY.

2. THE CONTRACTOR SHALL SUBMIT THE MOT TO THE APPROPRIATE REGULATORY AUTHORITY PRIOR TO WORK REQUIRING THE MOT FOR APPROVAL. NO WORK IN THE ROW SHALL OCCUR UNTIL THE MOT IS APPROVED.

DEMOLITION GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLITION MATERIALS IN A SAFE AND LAWFUL MANNER. THE CONTRACTOR SHALL SALVAGE TO THE OWNER ANY ITEM AS DETERMINED BY THE OWNER. ONCE DEMOLISHED, MATERIAL SHALL BE DISPOSED OF PROPERLY AND IMMEDIATELY.

2. REMOVE ALL IMPROVEMENTS DEFINED ON THE DEMOLITION PLAN. SALVAGE ITEMS TO OWNER AS DEFINED BY THE OWNER'S REPRESENTATIVE AND CONSTRUCTION DOCUMENT SPECIFICATIONS.

3. EXISTING PAVEMENT AND SIDEWALK EDGES THAT BORDER NEW CONSTRUCTION OR DEMOLITION ARE TO BE SAW-CUT TO PROVIDE A SMOOTH TRANSITION.

4. ALL EXISTING TREES ARE TO REMAIN UNLESS OTHERWISE NOTED.

5. ROOTS LARGER THAN 1 INCH IN DIAMETER ON TREES TO BE PRESERVED THAT ARE ENCOUNTERED DURING CONSTRUCTION MUST BE CUT CLEANLY AND COVERED OVER WITH SOIL BY THE END OF THE WORKING DAY.

6. ALL ASPHALT AND LIMEROCK WILL BE COMPLETELY REMOVED FROM AREAS THAT WILL BE LANDSCAPED. IN PARTICULAR, AREAS WHERE ASPHALT WILL BE REMOVED MUST HAVE THE TOP HARD SURFACE, LIMEROCK, AND COMPACTED SOIL REMOVED. REPLACEMENT SOIL SHALL BE CLEAN DEEP FILL OF PH 5.5 - 6.5. THE DEPTH OF UNCOMPACTED SOIL PRIOR TO PLANTING MUST BE AT LEAST 3 FEET TO ACCOMMODATE FUTURE TREE ROOT GROWTH. NO LIMEROCK, LARGE STONES, OR OTHER CONSTRUCTION DEBRIS CAN REMAIN IN AREAS TO BE LANDSCAPED.

PAVING, GRADING, AND DRAINAGE GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL PRACTICES DURING CONSTRUCTION TO MINIMIZE ON-SITE EROSION/SEDIMENTATION AND TO PROTECT AGAINST DAMAGE TO OFF SITE PROPERTY. THE FOLLOWING PRACTICES SHALL BE EMPLOYED:

A. EROSION AND SEDIMENTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AREAS OF OFF-SITE DISCHARGE DURING CONSTRUCTION SHALL BE PROTECTED WITH A SEDIMENT BARRIER PER FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL TO PREVENT OFF-SITE DISCHARGE OF SEDIMENTS. A SILT BARRIER SHALL SPECIFICALLY BE REQUIRED, CONSTRUCTED, AND MAINTAINED AS INDICATED ON THIS SHEET. TEMPORARY SEED AND MULCH SHOULD BE USED TO CONTROL ON-SITE EROSION WHEN IT IS NOT PRACTICAL TO ESTABLISH PERMANENT VEGETATION. SOD SHALL BE PLACED AS EARLY AS POSSIBLE ON ALL SLOPES STEEPER THAN 5 (FT) HORIZONTAL TO 1 (FT) VERTICAL. SOD SHALL BE PINNED AS REQUIRED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE CONTRACTOR SHALL INSPECT AND REPAIR AS NECESSARY THE EROSION/SEDIMENTATION PROTECTION AT THE END OF EACH WORKING DAY.

NOTE: EROSION/SEDIMENTATION CONTROL SHALL BE PLACED PRIOR TO SITE EXCAVATION AND SHALL REMAIN IN PLACE UNTIL SITE VEGETATION AND LANDSCAPING IS COMPLETE.

B. ALL INLET STRUCTURES AND PIPE SHALL BE PROTECTED FROM SILTATION BY CONSTRUCTING INLET PROTECTION AS DEFINED BY THESE PLANS OR IN THE FDOT STANDARDS. IF SILTATION OCCURS, THE CONTRACTOR IS RESPONSIBLE TO REMOVE SILTATION AS PART OF THE BASE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

C. EXCAVATED STORMWATER FACILITIES SHALL BE CONSTRUCTED AS PART OF THE INITIAL CONSTRUCTION. THE FACILITIES SHALL BE ROUGH GRADED TO THE DESIGN ELEVATIONS. AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED. THE FACILITIES BOTTOM SHALL BE OVER-EXCAVATED BY SIX INCHES, SCARIFIED, BACKFILLED WITH ARCHER FILL (HAVING NO MORE THAN 5% PASSING NO. 200 SIEVE), AND GRADED TO FINAL DESIGN GRADES. EXCESS AND UNSUITABLE SOILS SHALL BE REMOVED FROM THE BASIN (REMOVE ALL ACCUMULATED SILTS, CLAYS, ORGANIC, AND DEBRIS). FINALLY, SCARIFY AND RAKE BOTTOM AND VEGETATE.

D. PERMANENT VEGETATIVE STABILIZATION SHALL BE APPLIED ON FINE GRADED SITES AS SOON AS PRACTICAL. TEMPORARY SEEDING SHOULD BE EMPLOYED TO PREVENT EXPOSURE OF BARREN SOILS UNTIL PERMANENT VEGETATION CAN BE APPLIED.

E. ALL SLOPES 1:3 OR STEEPER REQUIRE LAPPED OR PEGGED SOD.

F. EROSION, SEDIMENT AND TURBIDITY CONTROL ARE THE RESPONSIBILITY OF THE CONTRACTOR. THESE DELINEATED MEASURES ARE THE MINIMUM REQUIRED, WITH ADDITIONAL CONTROLS TO BE UTILIZED AS NEEDED, DEPENDENT UPON ACTUAL SITE CONDITIONS AND CONSTRUCTION OPERATION.

G. ALL SYNTHETIC BALES, SILT FENCE, AND OTHER EROSION CONTROL MEASURES SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.

2. THE CONTRACTOR SHALL MAINTAIN IN HIS POSSESSION A COPY OF THE WATER MANAGEMENT DISTRICT CONSTRUCTION PERMIT. HE SHALL BE RESPONSIBLE FOR ADHERENCE TO ALL CONDITIONS CONTAINED IN THE PERMIT.

3. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.

4. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER AND OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR THE PERFORMANCE OF THE ITEM.

5. THE COST OF ALL TESTING OF COMPACTION AND OTHER REQUIRED TESTS SHALL BE PAID BY THE CONTRACTOR AND MADE AVAILABLE TO THE ENGINEER OF RECORD DURING SITE INSPECTIONS.

6. GENERAL CONTRACTOR TO CONTACT ENGINEER OF RECORD AND THE OWNER REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO BACKFILLING TRENCHES FOR FIELD INSPECTION AND PRIOR TO LAYING ASPHALT FOR FIELD INSPECTION.

7. CONTRACTOR IS TO SUBMIT FDOT APPROVED ASPHALT DESIGN MIXES TO THE OWNER'S REPRESENTATIVE AND ENGINEER OF RECORD BEFORE ANY WORK IS TO COMMENCE ON PROJECT. THE MIXTURE AT THE PLANT OR ON THE ROAD SHALL NOT EXCEED 335 DEGREES. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND PROVIDE TEMPERATURE READINGS PRIOR TO LAYING ASPHALT.

8. AS DETERMINED NECESSARY AND DIRECTED BY COLUMBIA COUNTY PUBLIC WORKS DEPARTMENT OR ENGINEER OF RECORD, THE CONTRACTOR SHALL UNDERCUT ALL UNSUITABLE MATERIAL 24 INCHES BELOW THE BOTTOM OF ANY PROPOSED LIMEROCK BASE, AND SHALL BACKFILL WITH FILL MATERIAL MEETING FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SEE FDOT INDEX 120-001 AND 120-002.

9. PROVIDE LEVEL PLATFORM IN FRONT OF ALL EGRESS DOORS. THE FLOOR SURFACE ON BOTH SIDES OF A DOOR SHALL BE AT THE SAME ELEVATION. THE FLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SHALL EXTEND FROM THE DOOR IN THE CLOSED POSITION A DISTANCE EQUAL TO THE DOOR WIDTH AND SHALL COMPLY WITH SECTION 4.13.6 MANEUVERING CLEARANCES AT DOORS OF THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.

10. RAMPS SHALL HAVE LEVEL LANDINGS AT THE BOTTOM AND TOP OF EACH RAMP RUN. CURB RAMPS ARE NOT REQUIRED TO HAVE LANDINGS. LANDINGS SHALL HAVE THE FOLLOWING FEATURES:

    A. THE LANDING SHALL BE AT LEAST AS WIDE AS THE RAMP RUN LEADING TO IT.

    B. ALL LANDINGS ON RAMPS SHALL BE NOT LESS THAN 60" CLEAR, AND THE BOTTOM OF EACH RAMP SHALL HAVE NOT LESS THAN 72" OF STRAIGHT AND LEVEL CLEARANCE.

    C. IF RAMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 60"X60". IF A RAMP RUN HAS A RISE GREATER THAN 6" OR A HORIZONTAL PROJECTION GREATER THAN 72" THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. HANDRAILS SHALL BE SHOWN ON THE SITE PLAN.

11. THE CONTRACTOR SHALL STOCKPILE TOPSOIL AND CONSTRUCTION MATERIALS IN AREAS DESIGNATED BY THE OWNER.

12. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING RECORD DRAWINGS AS NOTED IN NOTE #29 UNDER SITE GENERAL NOTES.

13. ALL CONCRETE USED SHALL BE 2,500 PSI MINIMUM.

14. ALL WELLS, CLEANOUTS, MANHOLE TOPS, PULL BOX COVERS AND OTHER UTILITY APPURTENANCES IN THE AREA OF REDEVELOPMENT SHALL BE PROTECTED AND TOPS ADJUSTED TO MATCH PROPOSED GRADES.

15. CONTRACTOR SHALL SAW CUT, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS ANY EXISTING PAVEMENT.

16. SOD SHALL BE PLACED AROUND ALL STRUCTURES AS DIRECTED BY THE FDOT INDEX 524-001 AND FDOT INDEX 425- AND 430- SERIES AS APPROPRIATE. ALL OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.

17. ALL STORM SEWER CURB AND DITCH BOTTOM INLETS SHALL CONFORM TO THE APPLICABLE FDOT INDEX. ALL DRAINAGE STRUCTURES WITH GRATES THAT ARE LOCATED IN GRASSED AREAS SHALL HAVE THE GRATE CHAINED TO THE STRUCTURE USING AN EYE BOLT AND CHAIN.

18. ALL CONCRETE STRUCTURES SHALL HAVE ALL EXPOSED EDGES CHAMFERED 3/4" AND CLASS I SURFACE FINISH.

19. ALL HDPE FITTINGS AND CONNECTORS SHALL BE WATER TIGHT. SEE SPECIFICATIONS FOR MORE INFORMATION.

20. COMPACTION OF ALL MATERIALS SHALL BE LIMITED TO STATIC MODE ONLY, UNLESS DIRECTED OTHERWISE BY THE ENGINEER OF RECORD.

21. ALL RCP PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 430.

WATER AND WASTEWATER GENERAL NOTES

1. MATERIALS AND CONSTRUCTION METHODS FOR WATER AND WASTEWATER SYSTEMS SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY CODES, PLANS, AND SPECIFICATIONS FOR CONSTRUCTION, LATEST REVISION THEREOF AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION OF ALL UTILITY EXTENSIONS AND CONNECTIONS MUST BE COORDINATED THROUGH THE REGULATORY AGENCY DEPARTMENT FOR PUBLIC UTILITIES.

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES TO DISCONNECT OR REMOVE THEIR FACILITIES PRIOR TO REMOVING OR DEMOLISHING ANY EXISTING STRUCTURES FROM THE SITE.

3. THE CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY UTILITY FIELD LOCATION AND RELOCATION AS REQUIRED.

4. THE COST OF ALL TESTING OF COMPACTION AND OTHER REQUIRED TESTS SHALL BE PAID BY THE CONTRACTOR AND MADE AVAILABLE TO THE ENGINEER OF RECORD DURING SITE INSPECTIONS.

5. THE CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATORY JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION AND NOTIFICATION OF PARTIES US THE CONTRACTOR'S RESPONSIBILITY.

6. ALL FORCE MAINS SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION AND NOTIFICATION OF PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.

7. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER AND OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR THE PERFORMANCE OF THE ITEM.

8. A HORIZONTAL SEPARATION OF TEN FEET PREFERRED, BUT NO LESS THAN SIX FEET, SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND GRAVITY OR PRESSURE WASTEWATER MAINS, WASTEWATER FORCE MAINS, AND RECLAIMED WATER MAINS NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. A HORIZONTAL SEPARATION OF TEN FEET PREFERRED, BUT NO LESS THAN THREE FEET, SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND VACUUM WASTEWATER MAINS. A HORIZONTAL SEPARATION OF THREE FEET SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND STORM SEWERS, STORMWATER FORCE MAINS, AND RECLAIMED WATER MAINS REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

9. WHEN POTABLE WATER MAINS CROSS OTHER PIPES, THE TWO PIPES SHALL HAVE JOINTS A MINIMUM OF SIX FEET FROM THE CROSSING. WHEN POTABLE WATER MAINS CROSS UNDERNEATH OTHER PIPES, THE MINIMUM VERTICAL SEPARATION IS TWELVE INCHES. WHEN POTABLE WATER MAINS CROSS ABOVE PRESSURE WASTEWATER MAINS, WASTEWATER FORCE MAINS, AND RECLAIMED WATER MAINS, THE MINIMUM VERTICAL SEPARATION IS TWELVE INCHES. WHEN POTABLE WATER MAINS CROSS ABOVE GRAVITY AND VACUUM WASTEWATER MAINS, STORM SEWERS, AND STORMWATER FORCE MAINS, THE PREFERRED VERTICAL SEPARATION IS TWELVE INCHES AND THE THE MINIMUM VERTICAL SEPARATION IS SIX INCHES.

10. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.

11. RESTRAINED JOINTS SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS IN ACCORDANCE WITH AWWA STANDARDS.

12. ALL PVC WATER SERVICE LINES SHALL BE SCH 40 PVC.

13. THE SITE WORK CONTRACTOR SHALL ENGAGE THE SERVICES OF A LICENSED UNDERGROUND UTILITY AND EXCAVATION CONSTRACTOR TO INSTALL THE NEW WATER SERVICE LINE.

14. ALL SANITARY SEWER SERVICE LATERALS SHALL BE 4" PVC SDR 35 OR 6" PVC SDR 35 WITH A CLEAN-OUT LOCATED PER THE PLANS. MINIMUM SLOPE FOR 4" LATERALS SHALL BE 1.0% AND A MINIMUM CLEANOUT SPACING OF 75 FEET ON-CENTER AND MINIMUM SLOPE FOR 6" LATERALS SHALL BE 0.6% AND A MINIMUM CLEANOUT SPACING OF 100 FEET ON-CENTER.

15. PUBLIC UTILITY EASEMENTS WILL BE PROVIDED AS REQUIRED FOR ALL UTILITIES SHOWN HEREON BY METES AND BOUND DESCRIPTION AND IN ACCORDANCE WITH THE REGULATORY AGENCY DEPARTMENT FOR PUBLIC UTILITIES.

ELECTRIC SERVICE GENERAL NOTES

1. ALL ELECTRICAL UTILITIES AND INFORMATION SHOWN ON THE CIVIL PLANS ARE FOR LOCATION AND COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL PLANS BY OTHERS FOR THE ELECTRICAL DESIGN AND DETAILS.

2. ELECTRIC DESIGN PROVIDED BY OTHERS.

FDOT GENERAL NOTES

1. ALL WORK PERFORMED WITHIN THE FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY SHALL CONFORM TO THE FOLLOWING:

    A. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JULY 2020).
    B. FDOT STANDARD PLANS (FY 2019-20 ROAD CONSTRUCTION)
    C. FDOT DESIGN MANUAL (2020)
    D. FDOT FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION

SHOULD A CONFLICT ARISE BETWEEN THE DETAILS SHOWN IN THE PLANS AND THE DEPARTMENT OF TRANSPORTATION STANDARDS THE ENGINEER/ PERMITTEE SHALL IMMEDIATELY CONFER WITH THE DEPARTMENT'S ENGINEER IN ORDER TO RESOLVE THE DISCREPANCY. IN NO CASE WILL ANYTHING LESS THAT THE DEPARTMENT'S MINIMUM STANDARD BE ALLOWED.

2. ALL TRAFFIC STRIPING AND MARKINGS ARE TO BE LEAD-FREE, NON-SOLVENT BASED THERMOPLASTIC.

3. REMOVAL OF EXISTING STRIPING SHALL BE ACCOMPLISHED USING THE HYDRO-BLAST METHOD.

4. ALL CURB AND GUTTER AND SIDEWALK WILL BE REMOVED AND REPLACED JOINT TO JOINT.

5. ALL DISTURBED AREA WITH THE DEPARTMENT OF TRANSPORTATION RIGHT OF WAY WILL RESTORED TO ORIGINAL OR BETTER CONDITION BY GRADING AND SODDING THE AREA DISTURBED (BERMUDA IN RURAL, CENTIPEDE IN UTILITY STRIPS).

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SCALE: N/A
VERIFY SCALE BAR IS ONE-INCH ON YOUR PRINTED PLANS
IF NOT ONE-INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

CONSTRUCTION/BID REVISIONS

SUBMITTALS: 2/15/21 - FIRST SUBMITTAL

CLIENT: CONCEPT DEVELOPMENT, INC.
PROJECT: CR5 LAKE CITY - SR 247 AT CR 242
SHEET TITLE: GENERAL NOTES

TECHNICIAN: K MERRITT
DESIGNER: C COTTINGTON
CONSTRUCTION CONTROL: D YOUNG
PROJECT NUMBER: 20-0425

DANIEL H. YOUNG

Daniel H.Young, P.E.
State of Florida, Professional Engineer, License No. 70780

This item has been digitally signed and sealed by Daniel H. Young, P.E. on the date indicated here. 02/16/2021

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FL PE No. 70780

SHEET NO.: C0.10

Tech: kurtn Plot Date: Feb 16,2021 9:04am Filename: H:\2020\20-0425\Department\04_Engineering\01_DWG\Production Files\20-0425 C0.10 NT GRS LakeCity.dwg

ABBREVIATIONS

	SYMBOLS
'	*FEET (WHEN USED WITH LENGTHS)*
°	*DEGREES*
'	*MINUTES (WHEN USED WITH ANGLES)*
"	*SECONDS*
%	*PERCENT*
@	*AT*
	A
AASHTO	*ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS*
AC	*ACRES*
ADA	*AMERICAN WITH DISABILITIES ACT*
ANSI	*AMERICAN NATIONAL STANDARDS INSTITUTE*
ARCH	*ARCHITECT*
ARV	*AIR RELEASE VALVE*
ASTM	*AMERICAN SOCIETY FOR TESTING AND MATERIALS*
AWWA	*AMERICAN WATER WORKS ASSOCIATION*
	B
BC	*BACK OF CURB*
BFP	*BACKFLOW PREVENTER*
BLDG	*BUILDING*
BM	*BENCHMARK*
BMP	*BEST MANAGEMENT PRACTICE*
BOC	*BACK OF CURB*
BVCS	*BEGIN VERTICAL CURVE STATION*
BVCE	*BEGIN VERTICAL CURVE ELEVATION*
BW	*BOTTOM OF WALL*
BSL	*BUILDING SETBACK LINE*
	C
CATV	*CABLE TELEVISION*
CI	*CURB INLET*
CIP	*CAST IRON PIPE*
CLDIP	*CEMENT LINE DUCTILE IRON PIPE*
CMP	*CORRUGATED METAL PIPE*
CO	*CLEANOUT*
CONC	*CONCRETE*
COORD	*COORDINATE*
CR	*COUNTY ROAD*
C/O	*CLEANOUT*
	D
DBH	*DIAMETER AT BREAST HEIGHT*
DE	*DRAINAGE EASEMENT*
DEG	*DEGREE*
DIA	*DIAMETER*
DIP	*DUCTILE IRON PIPE*
DWG	*DRAWING*
	E
e	*RATE OF ELEVATION*
E	*EAST*
EA	*EACH*
EL	*ELEVATION*
ELEV	*ELEVATION*
EOP	*EDGE OF PAVEMENT*
EOR	*ENGINEER OF RECORD*
ERCP	*ELLIPTICAL REINFORCED CONCRETE PIPE*
ESMT	*EASEMENT*
EVCS	*END VERTICAL CURVE STATION*
EVCE	*END VERTICAL CURVE ELEVATION*
EX	*EXISTING*
	F
FAC	*FLORIDA ADMINISTRATIVE CODE*
FBR	*FLORIDA BEARING RATIO*
FC	*FRICTION COURSE*
FDEP	*FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION*
FDOT	*FLORIDA DEPARTMENT OF TRANSPORTATION*
FFE	*FINISHED FLOOR ELEVATION*
FH	*FIRE HYDRANT*
FHWA	*FLORIDA HIGHWAY ADMINISTRATION*
FIG	*FIGURE*
FM	*FORCE MAIN*
FOC	*FACE OF CURB*
FS	*FLORIDA STATUTES*
FT	*FEET*
	G
GALV	*GALVANIZED*
GM	*GAS MAIN*
GV	*GATE VALVE*
	H
HDPE	*HIGH DENSITY POLYETHYLENE*
HP	*HIGH POINT*
	I
ID	*IDENTIFICATION*
INV	*INVERT*
INV EL	*INVERT ELEVATION*
IP	*IRON PIPE*
	K
K	*VERTICAL CURVE RATE OF CHANGE*
	L
L	*LENGTH*
LA	*LANDSCAPE ARCHITECT*
LBR	*LIMEROCK BEARING RATIO*
LDR	*LAND DEVELOPMENT REGULATION*
LF	*LINEAR FEET*
LP	*LOW POINT*
LT	*LEFT*
	M
MAX	*MAXIMUM*
ME	*MATCH EXISTING*
MH	*MANHOLE*
MIN	*MINIMUM*
MISC	*MISCELLANEOUS*
MJ	*MECHANICAL JOINT*
MUTCD	*MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES*
	N
N	*NORTH*
N-E	*NORTHING - EASTING*
N/A	*NOT APPLICABLE*
NAVD	*NORTH AMERICAN VERTICAL DATUM OF 1988*
NGVD	*NATIONAL GEODETIC VERTICAL DATUM OF 1929*
NO	*NUMBER*
NPDES	*NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM*
NTS	*NOT TO SCALE*
	O
OC	*ON CENTER*
OHW	*OVERHEAD WIRE*
ORB	*OFFICIAL RECORDS BOOK*
OSHA	*OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION*
	P
PAVT	*PAVEMENT*
PC	*POINT OF CURVATURE*
PCC	*POINT OF COMPOUND CURVE*
PERF	*PERFORATED*
PROP	*PROPOSED*
PT	*POINT OF TANGENCY*
PVC	*POLYVINYL CHLORIDE*
PUE	*PUBLIC UTILITY EASEMENT*
PVI	*POINT OF VERTICAL INTERSECTION*
	R
R	*RADIUS*
RCP	*REINFORCED CONCRETE PIPE*
RPM	*RAISED REFLECTIVE PAVEMENT MARKER*
RPZ	*REDUCED PRESSURE ZONE*
RT	*RIGHT*
RWM	*RECLAIMED WATER MAIN*
R/W	*RIGHT-OF-WAY*
	S
S	*SOUTH*
SAN	*SANITARY*
SHWE	*SEASONAL HIGH WATER ELEVATION*
SF	*SILT FENCE*
SL	*SLOPE*
SP	*SUPERPAVE*
SR	*STATE ROAD*
SS	*SANITARY SEWER*
ST	*STORM*
STA	*STATION*
STD	*STANDARD*
	T
TB	*TREE BARRICADE*
TCE	*TEMPORARY CONSTRUCTION EASEMENT*
TEMP	*TEMPORARY*
TOB	*TOP OF BANK*
TV	*TELEVISION*
TW	*TOP OF WALL*
TYP	*TYPICAL*
	U
USF	*UNITED STATES FOUNDRY*
USGS	*UNITED STATES GEOLOGICAL SURVEY*
UTIL	*UTILITY*
	V
V	*VERTICAL*
VC	*VERTICAL CURVE*
VCP	*VITRIFIED CLAY PIPE*
	W
W	*WEST*
W	*WATER*
W/	*WITH*
WM	*WATER MAIN*
WW	*WASTEWATER*
WWF	*WELDED WIRE FABRIC*

SIGNAGE

SIGNS ARE PER FDOT SPECIFICATIONS OR PER MUTCD. SIGN POSTS AND INSTALLATION SHALL BE PER FDOT INDEX NO. 700-010. SIGN PLACEMENT SHALL BE PER FDOT INDEX NO. 700-101.

FTP-20-06 (12" X 18") PER FDOT INDEX NO. 700-102

R1-1 "STOP" - SEE PLANS FOR SIZE

SITE INFORMATION

EX. PROPERTY LINE

LANDSCAPE BUFFER LINE

BUILDING SETBACK LINE

WETLAND LIMITS LINE

WETLAND SETBACK LINE

CENTER LINE

EASEMENT LINE

RIGHT-OF-WAY LINE

SILT FENCE LINE

TREE BARRICADE LINE

EX. STRUCTURE OR BUILDING

PROPOSED BUILDING

PROPOSED ASPHALTIC PAVEMENT

PROPOSED CONCRETE PAVEMENT

PROPOSED DETECTABLE WARNING SURFACE

DIRECTIONAL TRAFFIC ARROW PER FDOT INDEX NO. 17346

WATERSHED DIVIDE

EX. ELEVATION CONTOUR

PROPOSED CONTOUR

EX. SPOT ELEVATION

PROPOSED SPOT ELEVATION

DIRECTION OF SURFACE DRAINAGE FLOW

PROPOSED SWALE LINE

EX. FENCE

PROPOSED FENCE

EX. TREE (SIZE & TYPE)

EX. TREE (TREE ID)

EX. TREE TO BE REMOVED (SIZE & TYPE)

EX. TREE TO BE REMOVED (TREE ID)

PROJECT BENCHMARK

STORMWATER

THE PROPOSED STORMWATER STRUCTURES DEPICTED BELOW ARE DRAWN PER FDOT SPECIFICATIONS AND TO SCALE WHEN SHOWN ON THE PLAN SHEETS.

EX. GRAVITY STORMWATER MAIN

PROPOSED GRAVITY STORMWATER MAIN (PIPE LENGTHS ARE FROM N-E LOCATION OF A STRUCTURE TO N-E LOCATION OF A STRUCTURE)

EX. STORMWATER MANHOLE

PROPOSED 48" DIA. STORMWATER MANHOLE PER FDOT INDEX. NO. 425-001 AND 425-010

PROPOSED CIRCULAR AREA DRAIN

PROPOSED SQUARE AREA DRAIN

PROPOSED TYPE 1 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 2 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 3 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 4 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 5 CURB INLET TOP PER FDOT INDEX NO. 425-021 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 6 CURB INLET TOP PER FDOT INDEX NO. 425-021 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 9 CURB INLET TOP PER FDOT INDEX NO. 425-024 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 'C' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)

PROPOSED TYPE 'D' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)

PROPOSED TYPE 'E' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)

PROPOSED TYPE 'F' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 425-053 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 'G' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 425-053 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 'H' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)

PROPOSED TYPE 'J' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 425-054 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED U-TYPE CONCRETE ENDWALLS WITH GRATES PER FDOT INDEX NO. 430-010 (SEE PLANS FOR SIZE)

PROPOSED FLARED END SECTION PER FDOT INDEX NO. 430-020 (SEE PLANS FOR SIZE)

PROPOSED CROSS DRAIN MITERED END SECTION PER FDOT INDEX NO. 430-021 (SEE PLANS FOR SIZE)

PROPOSED SIDE DRAIN MITERED END SECTION PER FDOT INDEX NO. 430-022 (SEE PLANS FOR SIZE)

PROPOSED STORMWATER STRUCTURE ID TAG

POTABLE AND RECLAIMED WATER

EX. POTABLE WATER MAIN

PROPOSED POTABLE WATER MAIN

EX. RECLAIMED WATER MAIN

PROPOSED RECLAIMED WATER MAIN

11.25° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)

22.5° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)

45° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)

90° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)

TEE (POTABLE AND RCW)

CROSS (POTABLE AND RCW)

BLOWOFF ASSEMBLY (POTABLE AND RCW)

REDUCER (POTABLE AND RCW)

EX. GATE VALVE AND BOX (POTABLE AND RCW)

PROPOSED GATE VALVE AND BOX (POTABLE AND RCW)

EX. AIR RELEASE VALVE (POTABLE AND RCW)

PROPOSED AIR RELEASE VALVE (POTABLE AND RCW)

EX. FIRE HYDRANT ASSEMBLY

PROPOSED FIRE HYDRANT ASSEMBLY

PROPOSED SAMPLE POINT

EX. WATER METER (POTABLE AND RCW)

PROPOSED POTABLE WATER METER

PROPOSED POTABLE WATER BACK FLOW PREVENTER

PROPOSED RECLAIMED WATER METER

EX. WATER WELL

EX. HOSE BIB (POTABLE AND RECLAIMED)

PROPOSED HOSE BIB (POTABLE AND RECLAIMED)

PROPOSED FITTING ID TAG (POTABLE AND RECLAIMED)

NOTES:
1. THIS LEGEND IS ALL INCLUSIVE AND MAY INCLUDE ITEMS NOT A PART OF THIS PLAN SET.

2. SYMBOLS SHOWN ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. UNLESS NOTED OTHERWISE, SYMBOLS IN THESE PLANS MAY NOT BE REPRESENTATIVE OF SIZE.

WASTEWATER

EX. GRAVITY WASTEWATER MAIN

PROPOSED GRAVITY WASTEWATER MAIN (PIPE LENGTHS ARE FROM N-E LOCATION OF A STRUCTURE TO N-E LOCATION OF A STRUCTURE)

EX. WASTEWATER FORCE MAIN

PROPOSED WASTEWATER FORCE MAIN

EX. WASTEWATER MANHOLE

PROPOSED WASTEWATER MANHOLE

EX. WASTEWATER CLEANOUT

PROPOSED WASTEWATER CLEANOUT

PROPOSED WASTEWATER GREASE TRAP

PROPOSED WASTEWATER MANHOLE ID

11.25° BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)

22.5° BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)

45° BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)

90° BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)

WYE W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)

EX. PLUG VALVE AND BOX (WW FORCE MAIN)

PROPOSED PLUG VALVE AND BOX (WW FORCE MAIN)

EX. AIR RELEASE VALVE (WW FORCE MAIN)

PROPOSED AIR RELEASE VALVE (WW FORCE MAIN)

MISCELLANEOUS UTILITIES

THE PROPOSED UTILITIES BELOW ARE DESIGN BY OTHERS AND ARE DEPICTED FOR COORDINATION PURPOSES ONLY. REFER TO PLANS BY OTHERS FOR EXACT LOCATIONS, DIMENSION, AND DETAILS.

PROPOSED AT&T LINE

EX. BURIED CABLE LINE

PROPOSED BURIED CABLE LINE

EX. BURIED TELEPHONE LINE

PROPOSED TELEPHONE LINE

EX. CABLE TELEVISION LINE

PROPOSED CABLE/TELEVISION LINE

EX. FIBER OPTIC LINE

EX. UNDERGROUND TELEPHONE LINE

EX. TELEPHONE PEDESTAL

EX. TELEVISION/CABLE PEDESTAL

EX. CHILLED WATER MAIN

PROPOSED CHILLED WATER MAIN

EX. FIRE MAIN

PROPOSED FIRE MAIN

EX. IRRIGATION LINE

PROPOSED IRRIGATION LINE

EX. STEAM LINE

PROPOSED STEAM LINE

PROPOSED CLAY ELECTRIC LINE

EX. ELECTRIC LINE

PROPOSED ELECTRIC LINE

EX. ENERGY LINE

PROPOSED PRIVATE LIGHTING LINE

EX. OVERHEAD WIRE LINE

EX. UNDERGROUND ELECTRIC LINE

EX. LIGHT

EX. UTILITY POLE

EX. UTILITY POLE

EX. WOOD POWER POLE

EX. GUY ANCHOR

PROPOSED TRANSFORMER

EX. GAS LINE

PROPOSED GAS LINE

EX. GAS MARKER

EX. GAS MARKER

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SCALE: N/A
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

CONSTRUCTION/BID REVISIONS:

SUBMITTALS:
2/15/21 - FIRST SUBMITTAL

CLIENT: CONCEPT DEVELOPMENT, INC.
PROJECT: CR5 LAKE CITY - SR 247 AT CR 242
SHEET TITLE: LEGEND

TECHNICIAN: K. MERRITT
DESIGNER: C. THORNTON
CONSTRUCTION CONTROL: D. YOUNG
PROJECT NUMBER: 20-0425

DANIEL H. YOUNG

Daniel H.Young, P.E.
State of Florida, Professional Engineer, License No. 70780

This item has been digitally signed and sealed by Daniel H. Young, P.E. on the date indicated here. 02/16/2021

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FL PE No. 70780

SHEET NO.
C0.11

Tech: kurtm Plot Date: Feb 16,2021 8:04am Filename: M:\2020\20-0425\Departments\04_Engineering\02_DWGS\Production Files\20-0425 C0.11 LEGEND.dwg

ALTA/NSPS LAND TITLE SURVEY

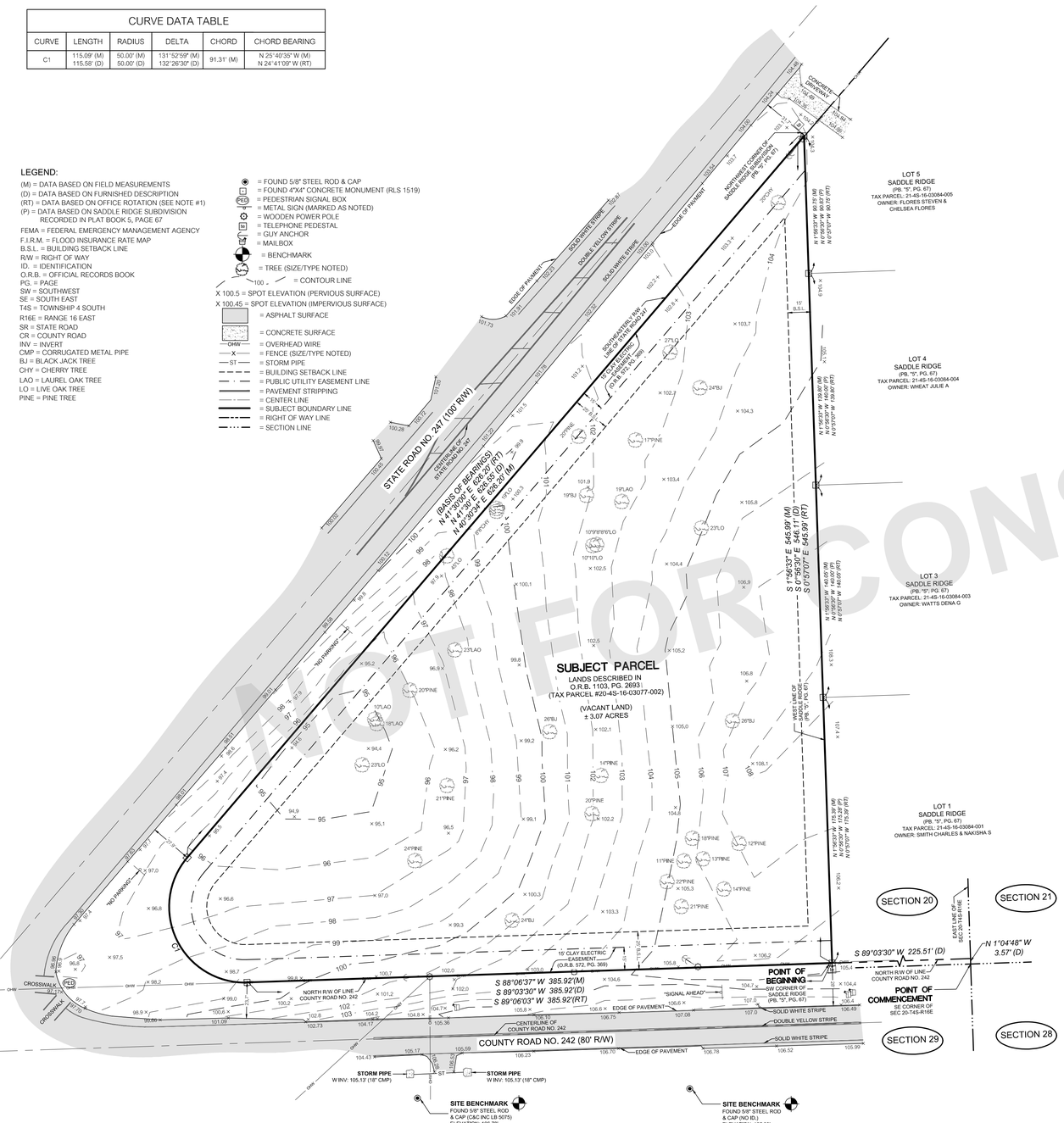
SITUATED IN THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 20, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA

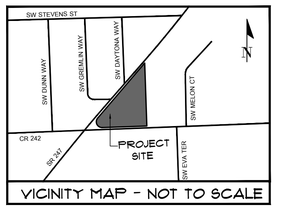
CURVE DATA TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD	CHORD BEARING
C1	115.09' (M) 115.58' (D)	50.00' (M) 50.00' (D)	131°52'59" (M) 132°26'30" (D)	91.31' (M)	N 25°40'35" W (M) N 24°41'09" W (RT)

LEGEND:

(M) = DATA BASED ON FIELD MEASUREMENTS
(D) = DATA BASED ON FURNISHED DESCRIPTION
(RT) = DATA BASED ON OFFICE ROTATION (SEE NOTE #1)
(P) = DATA BASED ON SADDLE RIDGE SUBDIVISION RECORDED IN PLAT BOOK 5, PAGE 67
FEMA = FEDERAL EMERGENCY MANAGEMENT AGENCY
F.I.R.M. = FLOOD INSURANCE RATE MAP
B.S.L. = BUILDING SETBACK LINE
R/W = RIGHT OF WAY
ID. = IDENTIFICATION
O.R.B. = OFFICIAL RECORDS BOOK
PG. = PAGE
SW = SOUTHWEST
SE = SOUTH EAST
T4S = TOWNSHIP 4 SOUTH
R16E = RANGE 16 EAST
SR = STATE ROAD
CR = COUNTY ROAD
INV = INVERT
CMP = CORRUGATED METAL PIPE
BJ = BLACK JACK TREE
CHY = CHERRY TREE
LAO = LAUREL OAK TREE
LO = LIVE OAK TREE
PINE = PINE TREE

= FOUND 5/8" STEEL ROD & CAP
= FOUND 4"X4" CONCRETE MONUMENT (RLS 1519)
= PEDESTRIAN SIGNAL BOX
= METAL SIGN (MARKED AS NOTED)
= WOODEN POWER POLE
= TELEPHONE PEDESTAL
= GUY ANCHOR
= MAILBOX
= BENCHMARK
= TREE (SIZE/TYPE NOTED)
= CONTOUR LINE
X 100.5 = SPOT ELEVATION (PERVIOUS SURFACE)
X 100.45 = SPOT ELEVATION (IMPERVIOUS SURFACE)
= ASPHALT SURFACE
= CONCRETE SURFACE
OHW = OVERHEAD WIRE
= FENCE (SIZE/TYPE NOTED)
ST = STORM PIPE
= BUILDING SETBACK LINE
= PUBLIC UTILITY EASEMENT LINE
= PAVEMENT STRIPPING
= CENTER LINE
= SUBJECT BOUNDARY LINE
= RIGHT OF WAY LINE
= SECTION LINE





VICINITY MAP - NOT TO SCALE

GRAPHIC SCALE
0 20 40 80

LEGAL DESCRIPTION: (PER FIRST AMERICAN TITLE INSURANCE COMPANY, FILE NO.: 2076-5029700, COMMITMENT DATE: NOVEMBER 03, 2020)

COMMENCE AT THE SOUTHEAST CORNER OF SECTION 20, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA AND RUN THENCE N 1°04'48" W ALONG THE EAST LINE OF SAID SECTION 20, 3.57 FEET TO THE NORTH RIGHT-OF-WAY LINE OF COUNTY ROAD NO. C- 242; THENCE S 89°03'30" W ALONG SAID NORTH RIGHT-OF-WAY LINE, 225.51 FEET TO THE SOUTHWEST CORNER OF SADDLE RIDGE, A SUBDIVISION ACCORDING TO PLAT THEREOF RECORDED IN PLAT BOOK 5, PAGE 67 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA AND TO THE **POINT OF BEGINNING**; THENCE CONTINUE S 89°03'30" W ALONG SAID NORTH RIGHT-OF-WAY LINE 385.92 FEET TO A POINT OF CURVE; THENCE NORTHWESTERLY ALONG SAID CURVE CONCAVE TO THE RIGHT, HAVING A RADIUS OF 50 FEET AND A TOTAL CENTRAL ANGLE OF 132°26'30", AN ARC DISTANCE OF 115.58 FEET TO THE SOUTHEASTERLY RIGHT-OF-WAY LINE OF STATE ROAD 247. THENCE N 41°30' E ALONG SAID SOUTHEASTERLY RIGHT-OF-WAY LINE, 626.55 FEET TO THE NORTHWEST CORNER OF SAID SADDLE RIDGE SUBDIVISION; THENCE S 0°56'30" E ALONG THE WEST LINE OF SAID SUBDIVISION, 546.11 FEET TO THE **POINT OF BEGINNING**.

SURVEYORS NOTES:

1. HORIZONTAL DATUM SHOWN HEREON IS BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM NAD 83, NORTH ZONE. ANY ROTATED BEARINGS "(RT)" SHOWN HEREON HAVE BEEN ROTATED CLOCKWISE 00°56'55" FROM GRID BEARINGS TO MATCH FURNISHED DESCRIPTION BEARING OF NORTH 41°30'00" EAST FOR THE EASTERLY RIGHT OF WAY LINE OF STATE ROAD NO. 247.
2. VERTICAL DATUM SHOWN HEREON IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). ELEVATIONS WERE ESTABLISHED FROM GPS REAL TIME KINEMATIC OBSERVATIONS WHILE RECEIVING NETWORK CORRECTIONS FROM TRIMBLE'S VRS. ELEVATIONS FROM THE GPS WERE COMPARED TO FLORIDA DEPARTMENT OF TRANSPORTATION BENCHMARK 2902010 BM2, AND WERE FOUND TO BE WITHIN REASON.
3. NO UNDERGROUND INSTALLATION OF UTILITIES OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN.
4. THE SURVEYOR HAS NO KNOWLEDGE OF UNDERGROUND FOUNDATIONS WHICH MAY ENCROACH.
5. FENCING, SYMBOLS AND MONUMENTATION SHOWN HEREON MAY BE EXAGGERATED IN SIZE AND PLACEMENT FOR PICTORIAL PURPOSES ONLY AND ARE NOT SHOWN TO SCALE.
6. IN THE OPINION OF THIS SURVEYOR, THE PERIMETER LINES AS SHOWN HEREON REPRESENT THE LOCATION OF THE BOUNDARY LINES OF THE SUBJECT PARCEL IN RELATION TO THE DESCRIPTION OF RECORD AND THOSE EXISTING LAND CORNERS FOUND TO BE ACCEPTABLE BY THIS SURVEYOR.
7. THIS SURVEY WAS PRODUCED WITH THE BENEFITS OF FURNISHED TITLE WORK VIA FIRST AMERICAN TITLE INSURANCE COMPANY, FILE NO.: 2076-5029700, COMMITMENT DATE: NOVEMBER 03, 2020. A SEARCH OF THE PUBLIC RECORDS HAS NOT BEEN DONE BY THE SURVEYOR.
8. INFORMATION FROM FEDERAL EMERGENCY MANAGEMENT AGENCY, (F.E.M.A.) FLOOD INSURANCE RATE MAP(S), SHOWN ON THIS MAP WAS CURRENT AS OF THE REFERENCED DATE. MAP REVISIONS AND AMENDMENTS ARE PERIODICALLY MADE BY LETTER AND MAY NOT BE REFLECTED ON THE MOST CURRENT MAP.
9. THERE WERE NO MARKED PARKING SPACES OBSERVED AT THE TIME OF THIS SURVEY.
10. THERE WAS NO OBSERVED EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS BEING CONDUCTED AT THE TIME OF THIS SURVEY.
11. THERE WAS NO EVIDENCE OF CHANGES IN STREET RIGHT OF WAY LINES. THERE WAS NO OBSERVED EVIDENCE OF CURRENT STREET CONSTRUCTION OR REPAIRS. THERE WAS NO OBSERVED EVIDENCE OF CURRENT SIDEWALK CONSTRUCTION OR REPAIRS.
12. THERE IS NO OBSERVED EVIDENCE OF SITE USE AS A CEMETERY, SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL.
13. THERE HAS BEEN NO FIELD DELINEATION OF ANY WETLANDS ON THE SUBJECT PARCEL.
14. PROJECT LIMITS PER CLIENTS REQUEST.
15. THIS PROPERTY IS CONTIGUOUS WITH THE RIGHT OF WAYS AND ACCESS EASEMENTS WITHOUT ANY GAPS, GORES, OR HIATUS.
16. DISTANCE TO THE INTERSECTION OF S.W. STATE ROAD NO. 247 AND S.W. COUNTY ROAD NO. 242 IS 0 FEET.
17. ONLY TREES 8" IN DIAMETER OR GREATER ARE SHOWN HEREON AND WERE MEASURED AT CHEST HEIGHT.
18. ADDITIONAL POINTS MAY BE FOUND BY TURNING ON THE SV-NODE* LAYERS IN THE SUPPLIED DIGITAL FILE.
19. TOPOGRAPHIC INFORMATION SHOWN HEREON BASED ON GROUND SURVEY. CONTOURS SHOWN HEREON REFLECT 1-FOOT INTERVALS.
20. THE SUBJECT PROPERTY IS VACANT AND DOES NOT HAVE A POSTED ADDRESS.
21. THERE WAS NO EVIDENCE OF CHANGES IN STREET RIGHT OF WAY LINES. THERE WAS NO OBSERVED EVIDENCE OF CURRENT STREET CONSTRUCTION OR REPAIRS. THERE WAS NO OBSERVED EVIDENCE OF CURRENT SIDEWALK CONSTRUCTION OR REPAIRS.
22. THE SUBJECT PARCEL DOES NOT APPEAR TO HAVE ANY OFFSITE EASEMENTS/SERVITUDE NOR WERE ANY PROVIDED TO THIS SURVEYOR.

SCHEDULE B-II EXCEPTIONS: (PER FIRST AMERICAN TITLE INSURANCE COMPANY, FILE NO.: 2076-5029700, COMMITMENT DATE: NOVEMBER 03, 2020)

ITEM NO. 9: THIS PROPERTY IS SUBJECT TO THE EASEMENT GRANTED TO CLAY ELECTRIC COOPERATIVE, INC, BY INSTRUMENT RECORDED IN BOOK 572, PAGE 369. (AS SHOWN HEREON)

ZONING RESTRICTIONS: (AS FURNISHED)
ZONE: CN - COMMERCIAL NEIGHBORHOOD
MINIMUM SETBACK REQUIREMENTS:

- FRONT: 25 FEET
- SIDE: 10 FEET
- REAR: 15 FEET

FLOOD ZONE:

THIS PROPERTY IS LOCATED IN FEDERAL FLOOD ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS INTERPOLATED FROM FEMA F.I.R.M. PANEL NO. 380 OF 552, COMMUNITY PANEL NO. *12007O 0380 C, EFFECTIVE DATE: FEBRUARY 4, 2009.

SURVEYOR'S CERTIFICATION:

TO: CONCEPT DEVELOPMENT, INC., A FLORIDA CORPORATION, PROVIDENCE TITLE COMPANY, LLC AND FIRST AMERICAN TITLE INSURANCE COMPANY.

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(b), 8, 9, 11, 13, 14, 16, 17, 18 AND 19, OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON DECEMBER 15, 2020.

CHADA. COLSON, P.S.M.
FLORIDA SURVEYOR & MAPPER CERTIFICATE NUMBER 7142
CHADC@CHW-INC.COM

DATE OF PLAT OR MAP:

11801 Research Drive
Alachua, FL 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075

CHW Professional Consultants

SCALE: 1" = 40'

VERIFY SCALE BAR IS CORRECT ON PLOTTED DRAWING
0 40 80
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CERTIFIED TO:

SURVEY DATE:	12-11-2020
REVISION DATE:	N/A
PROJECT NUMBER:	20-0425
TECHNICIAN:	NAD
CREW CHIEF:	KD
CHECKED BY:	CAC
FIELD BOOK & PAGE:	605 / 29

(SEE SURVEYOR'S CERTIFICATIONS)

CHAD A. COLSON
Professional Surveyor & Mapper Fla. License No. 7142

This map prepared by:
Certificate of Authorization No. LB. 5075
NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

SHEET NO.: 1 OF 1

Tech: chcds Plot Date: Jan 04,2021 1:04pm Filename: N:\2020\20-0425\Department\01_Survey\DWG\20-0425 ALTA (PRE-CON).dwg

I. INTRODUCTION

THIS DOCUMENT WAS PREPARED IN ORDER TO ILLUSTRATE COMPLIANCE WITH CHAPTER 62-621.300 (4) OF THE FLORIDA ADMINISTRATIVE CODE, WHICH PERTAINS TO THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THE ADMINISTRATIVE CODE GRANTS THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) THE AUTHORITY TO REGULATE POINT SOURCE DISCHARGE OF STORMWATER FROM CONSTRUCTION SITES. THIS DOCUMENT ESTABLISHES A STORMWATER POLLUTION PREVENTION PLAN FOR THE SITE USING STANDARD PRACTICE AND BEST MANAGEMENT PRACTICES (BMPs) AND IS ORGANIZED TO CORRESPOND TO 62-621.300(4)(a) GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES FDEP FORM 62-621.300(4)(b) IS TO BE SUBMITTED IN CONJUNCTION WITH THIS DOCUMENT. CONTRACTOR(S) MUST FILL IN THE ACTIVITIES SEQUENCE (SECTION II. B. BELOW) AND SIGN THIS SHEET (REFER TO SIGNATURE TABLE THIS SHEET) AND RETAIN THIS SHEET AND ALL FOLLOWING SWPPP SHEETS ON SITE. ALTERNATIVELY, CONTRACTOR(S) MAY PREPARE AND SIGN THEIR OWN SWPP PLAN MEETING THE REQUIREMENTS. IF THE SITE OR CONTRACTOR ACTIVITIES REQUIRE ANY BMPs THAT ARE NOT DESCRIBED ON THIS SHEET, THE CONTRACTOR MUST PREPARE AN ALTERNATIVE OR ADDITIONAL SWPPP DOCUMENT CONTAINING THE NECESSARY BMPs.

II. SITE DESCRIPTION

COUNTY:	COLUMBIA COUNTY, FLORIDA
SECTION, TOWNSHIP, RANGE:	SECTION 20, TOWNSHIP 4 SOUTH, RANGE 16 EAST
COUNTY PARCEL NO.:	20-4S-16-03077-002
STREET ADDRESS:	NORTHEAST CORNER OF SW SR 247 AND SW CR 242 INTERSECTION.
PROJECT AREA:	3.07 ACRES
SITE LOCATION MAP:	SEE COVER SHEET OF CONSTRUCTION DRAWINGS

A. NATURE OF CONSTRUCTION ACTIVITY

THE PROPOSED DEVELOPMENT IS THE CONSTRUCTION OF ±9,100 S.F. OF COMMERCIAL RETAIL STORE BUILDING AND ASSOCIATED PAVEMENT FOR DRIVEWAYS AND PARKING, SIDEWALKS, UTILITIES, AND STORMWATER MANAGEMENT FACILITY. THE PROJECT SITE IS LOCATED AT THE NORTHEAST PORTION OF THE INTERSECTION BETWEEM SW SR 247 AND SW CR 242, LAKE CITY FLORIDA. THE PROJECT SITE TOTAL AREA IS APPROXIMATELY 3.07 ACRES.

B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES - CONTRACTOR MUST FILL IN DAYS

1. PRIOR TO CONSTRUCTION, SILT FENCING AND TREE PROTECTION FENCING SHALL BE INSTALLED AND ALL EXISTING STORM DRAINAGE SWALE AND INLETS SHALL BE PROTECTED IN ACCORDANCE WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, DATED JULY 2013, AND THESE PLANS.
2. THE CONSTRUCTION SERVICE ENTRANCE SHALL BE STABILIZED TO MINIMIZE THE CREATION OF DUST AND OFF-SITE TRACKING OF SEDIMENTS.
3. ONLY THE AREA COMPRISING THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CLEARED AND GRUBBED OF UNWANTED VEGETATION.
4. THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CONSTRUCTED.
5. IF SUITABLE, THE EXCAVATED SOIL FROM THE FACILITY(S) MAY BE USED AS FILL FOR ON-SITE GRADING THAT IS DEPICTED IN THESE CONSTRUCTION PLANS. THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL ON-SITE OR OFF-SITE TO A PERMITTED LOCATION.
6. THE REMAINING PORTION OF THE SITE THAT IS TREATED BY THE CONSTRUCTED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CLEARED AND GRUBBED.
7. THE PERMANENT ROADWAYS/DRIVEWAYS SHALL BE ROUGHLY GRADED.
8. THE UNDERGROUND UTILITIES INFRASTRUCTURE AND STORMWATER PIPING SYSTEM SHALL BE INSTALLED. ANY DE-WATERING (PUMPED) SHALL BE DIVERTED TO THE ASSOCIATED STORMWATER MANAGEMENT FACILITY(S).
9. THE PERMANENT ROADWAY/DRIVEWAY SUBGRADE SHALL BE COMPACTED, A LIMEROCK BASE SHALL BE ESTABLISHED, AND THEN FOLLOWED BY AN OVERLAY OF ASPHALT.
10. UPON SIGNIFICANT COMPLETION OF CONSTRUCTION, THE STORMWATER PIPING SYSTEM SHALL BE FLUSHED OUT TO REMOVE ACCUMULATED DEBRIS AND SEDIMENT.
11. UPON COMPLETION OF THE DEBRIS AND SEDIMENT REMOVAL FROM THE STORMWATER PIPING SYSTEM, THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE FINE GRADED AND SHALL BE EXCAVATED A MINIMUM OF SIX INCHES BELOW THE DESIGN BOTTOM ELEVATION AND REPLACED WITH FILL HAVING A MINIMUM PERMEABILITY RATE OF 20 FEET/DAY WITH A MAXIMUM OF 5% SOIL FINES PASSING THE NO. 200 SIEVE. THE BOTTOM SHALL BE SCARIFIED AND STABILIZED ACCORDING TO THESE PLANS. ONCE COMPLETED, NO HEAVY MACHINERY SHALL BE ALLOWED WITHIN THE STORMWATER MANAGEMENT FACILITY.
12. ALL REMAINING DISTURBED AREAS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY GRASSED AND/OR LANDSCAPED ACCORDING TO THESE PLANS. TURF ESTABLISHMENT SHALL BE PER FDOT STANDARD SPECIFICATIONS SECTION 570. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO REMOVAL OF SILT FENCING AND OTHER EROSION CONTROL APPLICATIONS.

C. SITE DEVELOPMENT DATA:

TOTAL PROJECT SITE AREA:	3.07 ACRES
TOTAL SITE AREA TO BE DISTURBED:	3.79 ACRES
TOTAL IMPERVIOUS AREA (AS SHOWN IN CONSTRUCTION DRAWINGS):	1.45 ACRES
TOTAL DETENTION VOLUME:	4.40 ACRE-FEET
TOTAL OPEN AREA:	1.13 ACRES

D. SOIL CONDITIONS AND STORMWATER QUALITY

THE NRCS DATA FOR THE SITE REVEALS THAT THE SITE SOILS ARE COMPRISED OF ALPIN FINE SAND, 0 TO 5 PERCENT SLOPES, AND BLANTON FINE SAND 0 TO 5 PERCENT SLOPES. CSE ENGINEERING & CONSULTING, INC. CONDUCTED A GEOTECHNICAL EXPLORATION OF THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) LOCATION IN DECEMBER 2020. THE INVESTIGATION REVEALED THAT THE PROJECT SITE'S SURFACE SOILS HAVE THE FOLLOWING CHARACTERISTICS:

DEPTH TO EFFECTIVE OR MOBILIZED AQUIFER:	12.3 FEET
DEPTH OF SEASONAL HIGH WATER TABLE:	12 FEET
HORIZONTAL HYDRAULIC CONDUCTIVITY:	15.4 FEET/DAY
UNSATURATED VERTICAL INFILTRATION:	10.3 FEET/DAY

DESIGN PERCOLATION RATES FOR THE STORMWATER MANAGEMENT FACILITY(S) WERE DETERMINED BASED ON LABORATORY PERMEABILITY TEST RESULTS FROM BORING SAMPLES TAKEN WITHIN THE LIMITS OF THE STORMWATER MANAGEMENT FACILITY(S).

THE STORMWATER MANAGEMENT FACILITY(S) WAS DESIGNED TO PROVIDE FULL RATE AND VOLUME CONTROL AND WATER QUALITY TREATMENT OF THE STORMWATER RUNOFF RESULTING FROM THE POST-DEVELOPMENT SITE UNDER 100-YEAR CRITICAL STORM EVENT RAINFALL CONDITIONS. THE STORMWATER POLLUTION PREVENTION PLAN (C0.21) DEPICTS THE POST-DEVELOPMENT WATERSHED LIMITS AND THE TABLE BELOW SUMMARIZES THE WATERSHED.

WATERSHED ID	POST DEVELOPMENT AREA (ACRES)	POST DEVELOPMENT RUNOFF FACTOR (CN)	POST DEVELOPMENT IMPERVIOUS AREA (ACRES)	STORMWATER MANAGEMENT FACILITY TYPE	FACILITY DETENTION CAPACITY (ACRE-FEET)	100-YEAR FLOOD ELEVATION (FT)
POST-1 (ONSITE & OFSITE)	5.38	69	1.45	DRY RETENTION	4.40	96.04

E. SITE MAP

PLEASE SEE THE STORMWATER POLLUTION PREVENTION PLAN (C0.21) FOR DETAILS.

F. STORMWATER OUTFALL LOCATION AND RECEIVING WATER BODY

THE STORMWATER MANAGEMENT FACILITY IS DESIGNED AS A FULL DETENTION SYSTEM WITH 100-YEAR 24 HOUR NO DISCHARGE.

III. CONTROLS TO REDUCE POLLUTION

AS OUTLINED IN THE SUWANNEE RIVER WATER MANAGEMENT DISTRICT (SRWMD) PERMIT, ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN A MANNER AS TO NOT VIOLATE STATE WATER QUALITY STANDARDS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE. IF SITE CONDITIONS ARE SUCH THAT ADDITIONAL CONTROL MEASURES ARE REQUIRED OTHER THAN WHAT IS SPECIFIED IN THE EROSION AND SEDIMENTATION CONTROL PLAN, THEN THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL BEST MANAGEMENT PRACTICES. THESE MEASURES MUST BE INSPECTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE AND UNTIL AS DIRECTED BY THESE PLANS. THE STORMWATER POLLUTION PREVENTION PLAN (C0.21) AND SECTION IV BELOW PROVIDE DETAILS ON THE SPECIFIC CONTROL MEASURES TO REDUCE STORMWATER POLLUTION.

IV. EROSION AND SEDIMENT CONTROLS

A. STABILIZATION PRACTICES

EXISTING TREES AND NATURAL VEGETATION TO REMAIN ON-SITE SHALL BE PROTECTED BY TREE BARRICADE FENCING AS DEPICTED ON THE STORMWATER POLLUTION PREVENTION PLAN (C0.21). TYPE III SILT FENCING SHALL PROTECT ALL DRAINAGE STRUCTURES AND SHALL BUFFER AREAS WITH POTENTIAL TO CONTRIBUTE OFF-SITE RUNOFF AND AS SPECIFICALLY DEPICTED ON THE STORMWATER POLLUTION PREVENTION PLAN (C0.21). STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED. AS SPECIFIED IN SECTION II.B. ABOVE, UPON COMPLETION OF CONSTRUCTION, ALL STORMWATER MANAGEMENT FACILITIES SHALL BE SCRAPED CLEAN OF ACCUMULATED SEDIMENT AFTER THE COMPLETION OF CONSTRUCTION. ALL TURF ESTABLISHMENT SHALL BE PERFORMED MEETING THE REQUIREMENTS OF SECTION 570 OF THE STANDARD SPECIFICATIONS. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.

B. STRUCTURE PRACTICES

AS DEPICTED IN THE STORMWATER POLLUTION PREVENTION PLAN (C0.21), A STORMWATER MANAGEMENT SYSTEM WILL BE CONSTRUCTED AND WILL BE COMPRISED OF A DRY RETENTION FACILITY AND A STORM CONVEYANCE SYSTEM. TO PREVENT EROSION DURING CONSTRUCTION, TYPE III SILT FENCING WILL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS. ALL EXISTING AND PROPOSED STORM DRAINS AND DRAINAGE SWALES SHALL BE PROTECTED ACCORDING TO THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, DATED JULY 2013 OR PER DETAILS PROVIDED ON SHEET C0.21 UNTIL CONSTRUCTION IS COMPLETE. THE STORM PIPE CONVEYANCE SYSTEM SHALL BE FLUSHED OUT TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT UPON COMPLETION OF CONSTRUCTION.

C. DRAINAGE LOCATIONS THAT SERVE AREAS WITH LESS THAN 10 DISTURBED ACRES

AS SPECIFIED IN THE "SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES," THE SMF(S) WILL BE CONSTRUCTED PRIOR TO CLEARING AND GRUBBING OUTSIDE OF THE SMF(S) AREAS AND CONSTRUCTION OF THE PERMANENT PAVED AREAS. THE TOTAL CONTRIBUTING DRAINAGE AREA TO THE STORMWATER MANAGEMENT SYSTEM IS APPROXIMATELY 5.38 ACRES AND WILL CONSIST OF APPROXIMATELY 3.79 ACRES OF DISTURBED CONSTRUCTION AREA. THEREFORE, NO ADDITIONAL SEDIMENT TRAP BASINS ARE NECESSARY TO PROVIDE SEDIMENT STORAGE ON-SITE DURING CONSTRUCTION. AS SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN (C0.21), THE PROPOSED STORMWATER MANAGEMENT SYSTEM WILL PREVENT OFF-SITE EROSION DURING CONSTRUCTION. SILT FENCES OR EQUIVALENT SEDIMENT CONTROLS SHALL BE INSTALLED AT SIDE SLOPE AND DOWN SLOPE BOUNDARIES, INLET LOCATION, OUTLET LOCATIONS, AND OTHER LOCATIONS AS SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN, AS REQUIRED. BY COMPLETION OF CONSTRUCTION, THE SIDE SLOPES, SWALES, AND ALL DISTURBED AREAS SHALL BE STABILIZED WITH GRASS AND LANDSCAPING AS SPECIFIED ON THE CONSTRUCTION DRAWINGS.

D. DRAINAGE LOCATIONS THAT SERVE AREAS WITH MORE THAN 10 DISTURBED ACRES

NOT APPLICABLE, SEE SECTION C, ABOVE.

V. STORMWATER MANAGEMENT

A. BEST MANAGEMENT PRACTICES

AFTER CONSTRUCTION, THE STORMWATER MANAGEMENT SYSTEM SHALL BE MAINTAINED IN ACCORDANCE WITH THE SPECIFIED STORMWATER MAINTENANCE NOTES IN THE INCLUDED CONSTRUCTION DRAWINGS AND/OR RESPECTIVE MAINTENANCE REPORTS. SPECIFICALLY, THE PROPOSED SMF(S) SHALL BE MOWED REGULARLY IN THE SPECIFIED AREAS, STORM PIPES AND STRUCTURES WILL BE INSPECTED SEMI-ANNUALLY AND CLEANED ANNUALLY, SMF(S) SIDE SLOPES SHALL BE MAINTAINED TO PREVENT EROSION, AND LANDSCAPING AND GRASS THAT PREVENTS EROSION SHALL BE MAINTAINED. ADDITIONALLY, REMEDIAL ACTIONS SHALL BE TAKEN SHOULD THE SMF(S) NOT PERFORM AS DESIGNED.

B. VEGETATED SWALES

WHEN VEGETATED SWALES ARE UTILIZED, SILT FENCING OR EQUIVALENT SEDIMENT CONTROLS SHALL BE INSTALLED AT ADEQUATE INTERVALS TO COLLECT SEDIMENT ALONG THE SWALE. THE SEDIMENT SHALL BE REMOVED WHEN SEDIMENT REACHES ONE-THIRD OF THE HEIGHT OF THE SILT FENCING. SEE THE STORMWATER POLLUTION PREVENTION PLAN (C0.21) FOR DETAILS AND LOCATIONS, AS REQUIRED.

C. VELOCITY DISSIPATION DEVICES AT DISCHARGE POINTS

WHEN DISCHARGE POINTS ARE NOT LOCATED UNDER WATER, RIP RAP PADS HAVE BEEN PROVIDED AT LOCATIONS WHERE NECESSARY DUE TO ANTICIPATED DISCHARGE VELOCITIES. PLEASE SEE THE CONSTRUCTION PLANS FOR DETAILS AND LOCATIONS, AS NEEDED.

VI. CONTROLS FOR OTHER POTENTIAL POLLUTANTS

A. WASTE DISPOSAL

THE CONTRACTOR SHALL PROVIDE LITTER COLLECTION CONTAINERS WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION. CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIALS AND CONSTRUCTION DEBRIS IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.

B. DUST CONTROL

TO PREVENT OFF-SITE VEHICULAR TRACKING OF SEDIMENTS AND DUST GENERATION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE ESTABLISHED BY THE SITE CONTRACTOR. PLEASE SEE THE STORMWATER POLLUTION PREVENTION PLAN (C0.21) FOR DETAILS AND LOCATION(S).

C. EXISTING VERSUS PROPOSED POTABLE AND SANITARY SEWER SYSTEMS

THERE ARE NO EXISTING SANITARY SEWER AND POTABLE WATER SYSTEMS LOCATED ON THE PROJECT SITE. IF TEMPORARY SANITARY SYSTEMS ARE UTILIZED DURING CONSTRUCTION, THE CONTRACTOR SHALL PROPERLY CONTROL AND DISCHARGE ANY SANITARY WASTE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

D. FERTILIZER & PESTICIDES

THE USE OF FERTILIZERS, HERBICIDES, AND PESTICIDES ON THE PROJECT SITE, WILL BE DIRECTED BY THE LANDSCAPE PLAN AND THE FDOT STANDARD SPECIFICATIONS SECTION 570, TO SUPPORT THE GROWTH OF THE PROPOSED VEGETATION. ESTABLISHING THIS VEGETATION WILL AID IN THE STABILIZATION OF THE PROJECT SITE AND REDUCE EROSION. APPLICATION RATES FOR THE FERTILIZERS, HERBICIDES, AND PESTICIDES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO GUARD AGAINST OVER-USE, WHICH CAN LEAD TO VIOLATIONS OF STATE WATER QUALITY STANDARDS.

E. TOXIC MATERIAL

THE CONSTRUCTION SITE WILL BE IN FULL COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS. A PLASTIC MAT, TAR PAPER, OR OTHER IMPERVIOUS MATERIAL SHALL BE PLACED UNDER AREAS WHERE TOXIC LIQUIDS ARE TO BE OPENED AND STORED.

F. HAZARDOUS MATERIALS

ALL HAZARDOUS MATERIALS SHALL BE STORED IN A SECURE LOCATION, UNDER COVER, AND IN APPROPRIATE TIGHTLY, SEALED CONTAINERS WHEN NOT IN USE. ALL PRODUCTS SHALL BE STORED IN AND USED FROM THE ORIGINAL CONTAINER WITH THE ORIGINAL PRODUCT LABEL. CONTAINERS MUST BE STORED IN A MANNER TO PROTECT THEM FROM THE ELEMENTS AND INCIDENTAL DAMAGE. THE MINIMUM PRACTICAL QUANTITY OF ALL SUCH MATERIALS SHALL BE KEPT ON THE JOB SITE AND SCHEDULED FOR DELIVERY AS CLOSE TO TIME OF USE AS PRACTICAL.

ALL PRODUCTS SHALL BE USED IN STRICT COMPLIANCE WITH THE INSTRUCTIONS ON THE PRODUCT LABEL.

SUFFICIENT EQUIPMENT AND/OR MATERIALS SHALL BE KEPT ONSITE TO CONTAIN AND CLEAN UP SPILLS OF HAZARDOUS MATERIALS IN THE AREAS WHERE THESE MATERIALS ARE STORED OR USED. SPILL CONTROL AND CONTAINMENT KIT SUPPLIES SHALL BE OF SUFFICIENT QUANTITIES AND APPROPRIATE CONTENT TO CONTAIN A SPILL FROM THE LARGEST ANTICIPATED PIECE OF EQUIPMENT AND FROM THE LARGEST ANTICIPATED QUANTITIES OF PRODUCTS STORED ON THE SITE AT ANY GIVEN TIME.

CONTRACTOR TO CONTAIN AND CLEAN UP ANY SPILLS IMMEDIATELY AFTER THEY OCCUR. ANY SPILLS OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF REPORTABLE QUANTITIES AS DEFINED BY EPA, STATE, OR LOCAL AGENCY REGULATIONS SHALL BE REPORTED TO THE APPROPRIATE AGENCIES IN THE REQUIRED TIME FRAMES. THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE OWNER IMMEDIATELY UPON IDENTIFICATION OF ANY SPILL.

ALL EXCESS, USED, OR SPILLED PRODUCTS, INCLUDING CONTAMINATED SOIL, SHALL BE DISPOSED OF BY THE CONTRACTOR IN STRICT COMPLIANCE WITH INSTRUCTIONS ON THE PRODUCT LABEL AND ALL APPLICABLE REGULATIONS.

VII. APPROVED STATE AND LOCAL PLANS

THE CONSTRUCTION DRAWINGS FOR THE PROJECT WERE APPROVED AND PERMITTED BY THE FOLLOWING AGENCIES:

* COLUMBIA COUNTY
* FLORIDA DEPARTMENT OF TRANSPORTATION
* SUWANNEE RIVER WATER MANAGEMENT DISTRICT
* FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

VIII. CONSTRUCTION ACTIVITY DISCHARGES

IN ACCORDANCE WITH THIS PLAN, THERE ARE NO ANTICIPATED DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

IX. CHANGES TO THE POLLUTION PREVENTION PLAN

THIS STORMWATER POLLUTION PREVENTION PLAN SHALL BE AMENDED TO REFLECT ANY APPLICABLE CHANGE IN A STATE, REGIONAL, OR LOCAL PERMIT FOR WHICH THE PERMITTEE RECEIVES WRITTEN NOTICE. WHEN WRITTEN NOTICE IS RECEIVED, THE PERMITTEE SHALL PROVIDE A RE-CERTIFICATION OF THIS POLLUTION PREVENTION PLAN, WHICH HAS BEEN REVISED TO ADDRESS SUCH CHANGES. AMENDMENTS TO THE PLAN SHALL BE PREPARED, SIGNED, DATE, AND KEPT AS ATTACHMENTS TO THE ORIGINAL PLAN.

X. ALTERNATIVE PERMIT REQUIREMENTS

NO ALTERNATIVE PERMIT REQUIREMENTS ARE REQUESTED.

XI. MAINTENANCE

THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE, INSPECTION SCHEDULE, AND REPAIRS OUTLINED IN THIS PLAN. MAINTENANCE SHALL CONTINUE THROUGHOUT THE PROJECT UNTIL WORK IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER CONSTRUCTION IS COMPLETE. IN ADDITION TO THE TIMES MENTIONED IN THE PREVIOUS SECTIONS, THE CONTRACTOR SHALL INITIATE ANY REPAIRS WITHIN 24 HOURS OF BEING REPORTED. IN THE EVENT THAT THE SMF(S) DO NOT PERFORM PROPERLY OR IF A SINKHOLE DEVELOPS, THE PROJECT ENGINEER SHALL BE NOTIFIED TO ASSIST IN COORDINATING REMEDIAL ACTION. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM SILT FENCING WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE SILT FENCE. UPON FINAL COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY BOTH THE CITY AND OWNER, THE OPERATION AND MAINTENANCE ENTITY WILL BE "CONCEPT DEVELOPMENT, INC.".

XII. INSPECTIONS

THE CONTRACTOR SHALL INSPECT ALL POINTS OF POTENTIAL DISCHARGE FROM THE PROJECT SITE FOR ALL DISTURBED AREAS ON THE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. FOR POINTS OF DISCHARGE INTO SURFACE WATERS OF THE STATE OR AN MS4, A QUALIFIED INSPECTOR (PROVIDED BY THE OPERATOR) SHALL PERFORM THE REQUIRED INSPECTIONS. THE CONTRACTOR SHALL INSTALL A RAIN GAUGE AT THE SITE TO MONITOR AND DOCUMENT RAINFALL EVENTS 0.50 INCHES OR GREATER. LOCATIONS WHERE THE SITE IS COMPLETELY CONSTRUCTED AND STABILIZED, SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE A MONTH. ALL INSPECTIONS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION FORM. THE CONTRACTOR MAY USE THEIR OWN FORM (MEETING FDEP SWPPP REQUIREMENTS) OR A SAMPLE FORM FROM FDEP. A SAMPLE CONSTRUCTION FORM IS AVAILABLE AT: "HTTPS://FLORIDADEP.GOV/WATER/STORMWATER/DOCUMENTS/CONSTRUCTION-SWPPP". MORE SPECIFICALLY, THE INSPECTION SHALL ENSURE THE FOLLOWING CATEGORIES.

A. DISTURBED AREAS

ALL DISTURBED AREAS AND AREAS USED FOR MATERIAL STORAGE SHALL BE INSPECTED FOR POLLUTANTS ENTERING THE STORMWATER SYSTEM. THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE INSPECTED TO ENSURE THEY ARE OPERATING CORRECTLY. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

B. MAINTENANCE PERFORMANCE

BASED ON THE RESULTS OF THE INSPECTION, ALL MAINTENANCE OPERATIONS NEEDED TO ASSURE PROPER COMPLIANCE WITH THIS PLAN SHALL BE DONE IN A TIMELY MANNER, BUT IN NO CASE LATER THAN 7 DAYS FOLLOWING THE INSPECTION.

C. REPORTING REQUIREMENTS

ALL INSPECTIONS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION FORM. THIS FORM IS CREATED TO SUMMARIZE THE SCOPE OF THE INSPECTION, THE NAME(S) AND QUALIFICATION OF THE INSPECTOR(S), THE DATE OF INSPECTION, RAINFALL DATA, OBSERVATIONS, THE ACTIONS TAKEN TO CORRECT INCIDENTS OF NON-COMPLIANCE WITH THE PROVISIONS OF THIS PLAN. IF NO INCIDENTS OF NON-COMPLIANTS ARE OBSERVED, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE ASSOCIATED PERMIT.

XIII. NON-STORMWATER DISCHARGES

IN ADDITION TO STORMWATER RUNOFF, THIS PLAN APPLIES TO RUNOFF FROM IRRIGATION OPERATIONS AND CONSTRUCTION PRACTICES. THIS PLAN DOES NOT PERTAIN TO DISCHARGES FROM FIRE FIGHTING ACTIVITIES.

XIV. CONTRACTORS CERTIFICATION

THE CONTRACTORS OR SUB-CONTRACTORS SHALL PHOTOCOPY AND COMPLETE THE FORM ON THIS PAGE. IT SHALL BE PROVIDED TO THE OWNER AND KEPT ON FILE PURSUANT TO SECTION XV REGARDING PROJECT RECORDS.

XV. RETENTION OF RECORDS

THE PERMITTEE SHALL RETAIN COPIES OF STORMWATER POLLUTION PREVENTION PLANS AND ALL REPORTS REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED.

THE PERMITTEE SHALL RETAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN AND ALL REPORTS, RECORDS, AND DOCUMENTATION REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE, OR AN APPROPRIATE ALTERNATIVE LOCATION AS SPECIFIED IN THE NOTICE OF INTENT, FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

XVI. NOTICE OF TERMINATION

NOTICE OF TERMINATION:

1. WHERE A SITE HAS BEEN FINALLY STABILIZED AND ALL STORMWATER DISCHARGES AUTHORIZED BY THIS PERMIT ARE ELIMINATED, THE PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION (DEP FORM 62-621.300(6)), SIGNED IN ACCORDANCE WITH PART VII.C OF DEP DOCUMENT NO. 62-621.300(4)(a), WITHIN 14 DAYS OF FINAL STABILIZATION OF THE SITE TO TERMINATE COVERAGE UNDER THIS PERMIT.
2. ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MEANS THAT ALL DISTURBED SOILS AT THE SITE HAVE BEEN FINALLY STABILIZED AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED OR WILL BE REMOVED AT AN APPROPRIATE TIME, OR THAT ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE THAT ARE AUTHORIZED BY THIS GENERIC PERMIT HAVE OTHERWISE BEEN ELIMINATED.
3. FOR CONSTRUCTION ACTIVITIES WHERE THE OPERATOR CHANGES, THE EXISTING OPERATOR SHALL FILE AN N.O.T. IN ACCORDANCE WITH THIS PART WITHIN 14 DAYS OF RELINQUISHING CONTROL OF THE PROJECT TO A NEW OPERATOR.

THE PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION TO THE FOLLOWING ADDRESS:

NPDES STORMWATER NOTICES CENTER, MS# 2510
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

PROJECTS THAT DISCHARGED STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY TO A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) SHALL SUBMIT A COPY OF THE N.O.T. TO THE OPERATOR OF THE MS4.

Contractor/Subcontractor Certification Statement
Stormwater Pollution Prevention Plan

Site Name: Commercial Retail Store - Lake City SR 247 at CR 242
Site Location: Northeast Corner of SW SR 247 and Sw CR 242 Intersection
Columbia County, Florida

THE CONTRACTOR(S) OR SUB-CONTRACTOR(S) RESPONSIBLE FOR COMPLYING WITH THIS STORMWATER POLLUTION PREVENTION PLAN SHALL SIGN THE CERTIFICATION STATEMENT BELOW. MULTIPLE COPIES OF THIS CERTIFICATION STATEMENT MAY BE NECESSARY DEPENDING ON THE NUMBER OF SUB-CONTRACTORS ASSOCIATED WITH THE PROJECT

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 AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

DATE	RESPONSIBLE INDIVIDUAL'S NAME	RESPONSIBLE INDIVIDUAL'S SIGNATURE	TITLE	COMPANY NAME, ADDRESS, AND PHONE NUMBER

11801 Research Drive
Alachua, Florida 32615
(386) 418-1976
www.chw-inc.com
est. 1988 FLORIDA CA-9075
CHW Professional Consultants

SCALE: N/A
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/BID REVISIONS:

SUBMITTALS: 2/15/21 - FIRST SUBMITTAL

CLIENT: CONCEPT DEVELOPMENT, INC.
PROJECT: CRS LAKE CITY - SR 247 AT CR 242
SHEET TITLE: STORMWATER POLLUTION PREVENTION NOTES

TECHNICIAN: K MERRITT
DESIGNER: C CONCEPTION
QC CONTROL: D YOUNG
PROJECT NUMBER: 20-0425

DANIEL H. YOUNG

Daniel H.Young, P.E.
State of Florida, Professional Engineer, License No. 70780

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FL PE No. 70780

SHEET NO.: C0.20

STORMWATER POLLUTION PREVENTION LEGEND

- **TS** = TEMPORARY SEEDING
- **PS** = PERMANENT SEEDING
- **ML** = MULCHING
- **SD** = SOD STABILIZATION
- **SF** = SILT BARRIER
- **TB** = TREE BARRIER
- **IP** = INLET PROTECTION
- **OP** = OUTLET PROTECTION
- **CO** = CONSTRUCTION ENTRANCE/EXIT

N

GRAPHIC SCALE

0 15 30 60

BASIN EROSION & SEDIMENTATION CONTROL

1. SILT FENCING AND/OR STAKED HAYBALES SHALL BE CONSTRUCTED WHERE SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION.

2 ALL STORMDRAIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION IN ACCORDANCE WITH FDOT STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.

3. THE DRAINAGE BASINS SHALL BE ROUGH GRADED PRIOR TO CONSTRUCTING THE LIMEROCK BASE. THE RETENTION BASINS SHALL BE FINE GRADED AND GRASSED PRIOR TO PAVING AND SITE CLEANUP.

4. THE STORMDRAIN SYSTEM SHALL BE FLUSHED OUT TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT UPON COMPLETION OF CONSTRUCTION.

5. THE DRAINAGE BASIN BOTTOM SHALL BE SCRAPED CLEAN OF ALL ACCUMMULATED SEDIMENT UPON COMPLETION OF CONSTRUCTION AFTER THE STORMDRAIN SYSTEM IS COMPLETELY FLUSHED OUT. THIS ACTIVITY SHALL ONLY OCURR IN A DRY STATE.

6. ALL DISTURBED AREAS IN THE CONSTRUCTION AREA SHALL BE COMPLETELY STABILIZED BY COMPLETION OF CONSTRUCTION. GRASS SEEDING RATES AND MIXTURES SHALL BE PER SECTION 570 OF THE STANDARD SPECIFICATIONS. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.

7. REFER TO THE SWPPP PLAN FOR COMPLETE EROSION CONTROL MEASURES.

8. WHERE POND TOP OF BANK IS IN CUT TO EXISTING GRADE, CONTRACTOR SHALL SOD 5-FT BEYOND TOP OF BANK FOR EROSION PROTECTION.

TYPICAL INSTALLATION SEQUENCE FOR SILT-SAVER FRAME AND FILTER

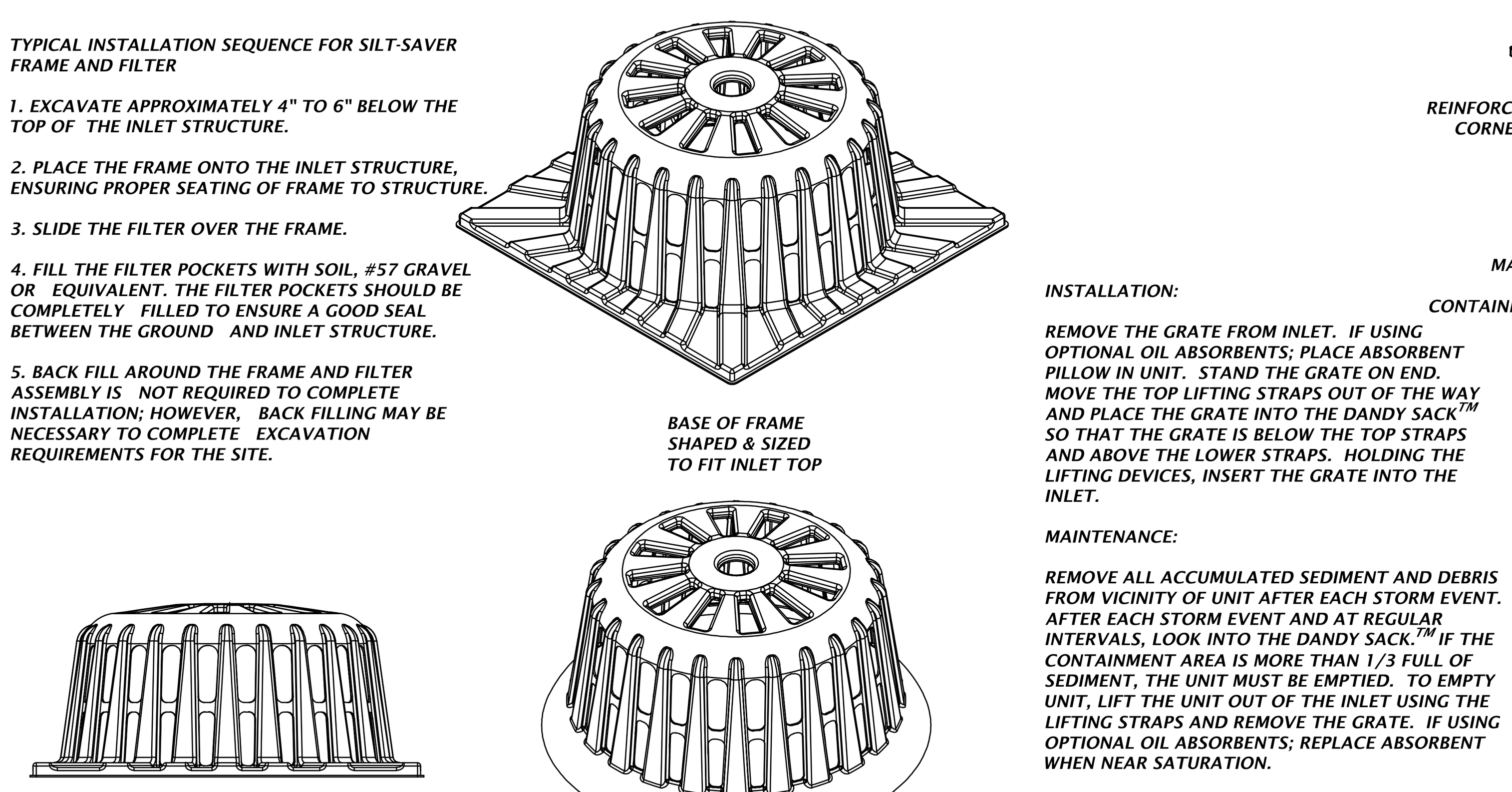
1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.

2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.

3. SLIDE THE FILTER OVER THE FRAME.

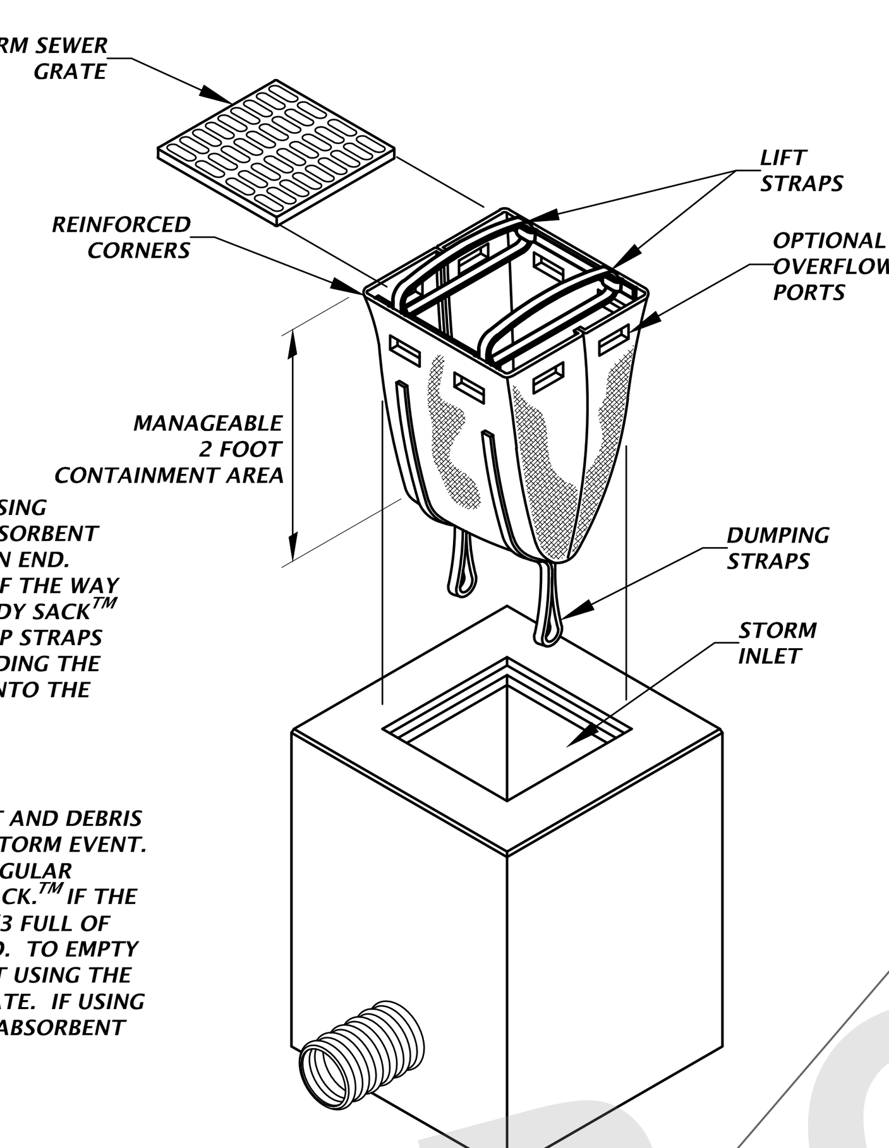
4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.

5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.



SILT-SAVER® DETAIL

NTS



INSTALLATION:

REMOVE THE GRATE FROM INLET. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY SACK™ SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

MAINTENANCE:

REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE DANDY SACK.™ IF THE CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION.

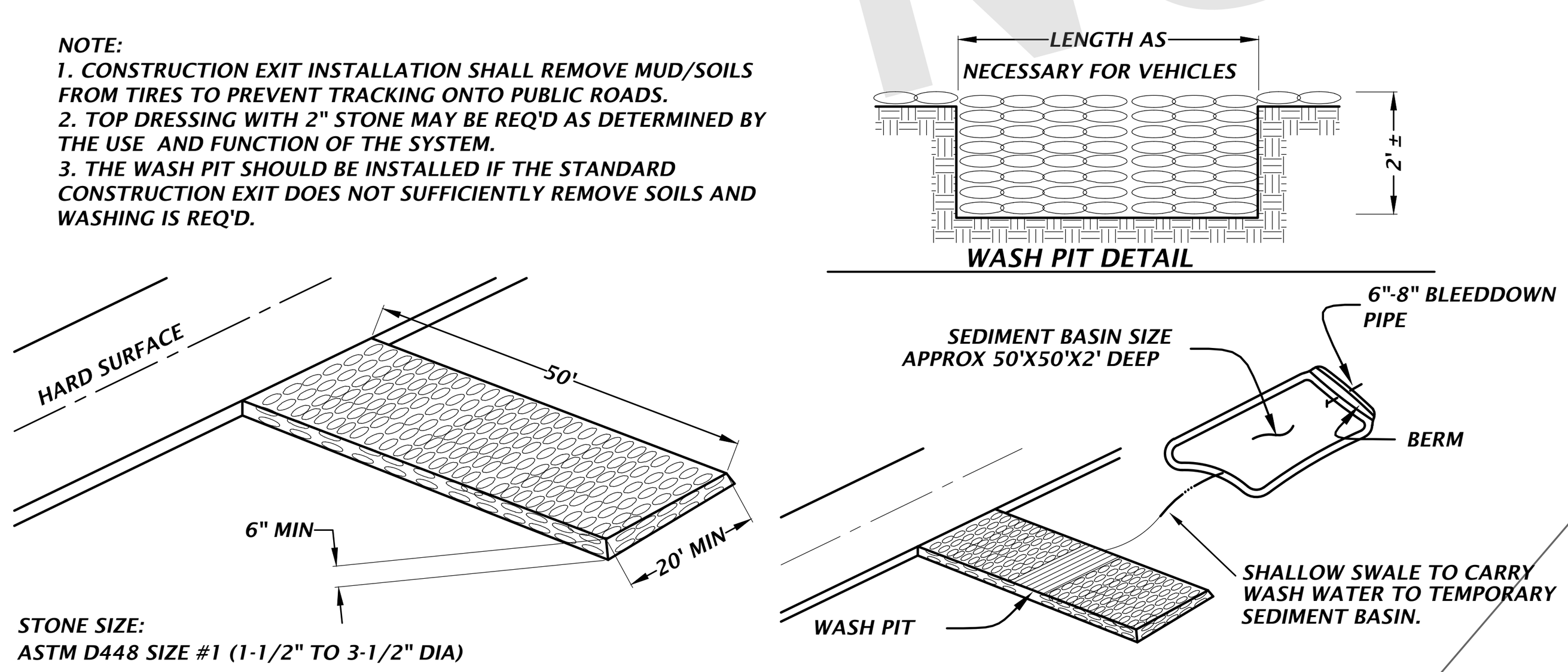
DANDY SACK™ DETAIL

NTS

INLET PROTECTION OPTIONS DETAIL

NTS

NOTE:
1. CONSTRUCTION EXIT INSTALLATION SHALL REMOVE MUD/SOILS FROM TIRES TO PREVENT TRACKING ONTO PUBLIC ROADS.
2. TOP DRESSING WITH 2" STONE MAY BE REQ'D AS DETERMINED BY THE USE AND FUNCTION OF THE SYSTEM.
3. THE WASH PIT SHOULD BE INSTALLED IF THE STANDARD CONSTRUCTION EXIT DOES NOT SUFFICIENTLY REMOVE SOILS AND WASHING IS REQ'D.



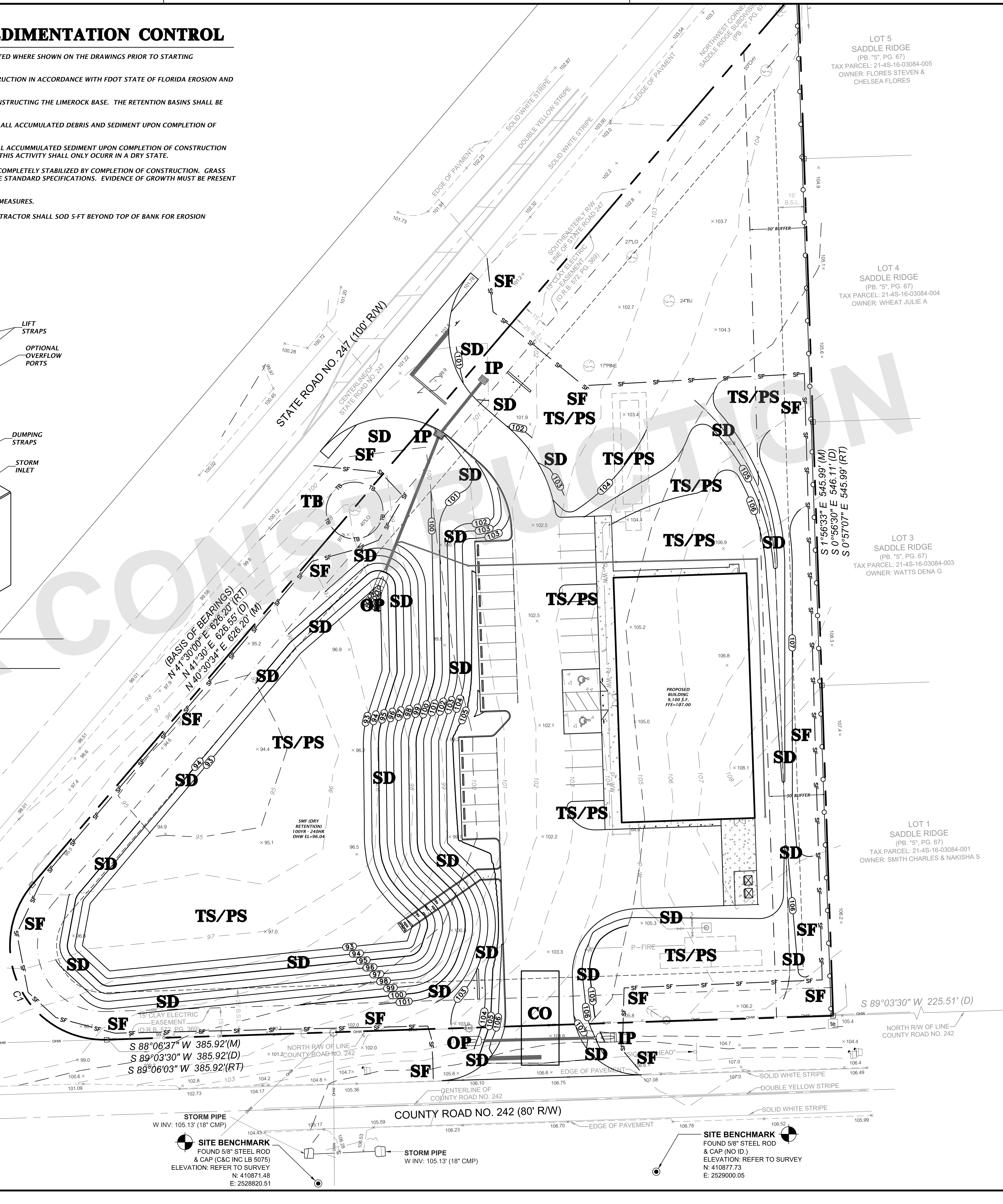
STONE SIZE:
ASTM D448 SIZE #1 (1-1/2" TO 3-1/2" DIA)

STANDARD CONSTRUCTION EXIT

CONSTRUCTION EXIT WITH WASH PIT

TEMPORARY CONSTRUCTION EXIT DETAIL

NTS



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est. 1988 FLORIDA CA-5075

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SCALE: 1"=30'

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CONSTRUCTION/BID REVISIONS:

SUBMITTALS: 2/15/21 - FIRST SUBMITTAL

CLIENT: CONCEPT DEVELOPMENT, INC.

PROJECT: CRS LAKE CITY - SR 247 AT CR 242

SHEET TITLE: STORMWATER POLLUTION PREVENTION PLAN

TECHNICIAN: K MERRITT

DESIGNER: C THORTON

QUALITY CONTROL: D YOUNG

PROJECT NUMBER: 20-0425

DANIEL H. YOUNG

Daniel H.Young, P.E.
State of Florida, Professional Engineer, License No. 70780

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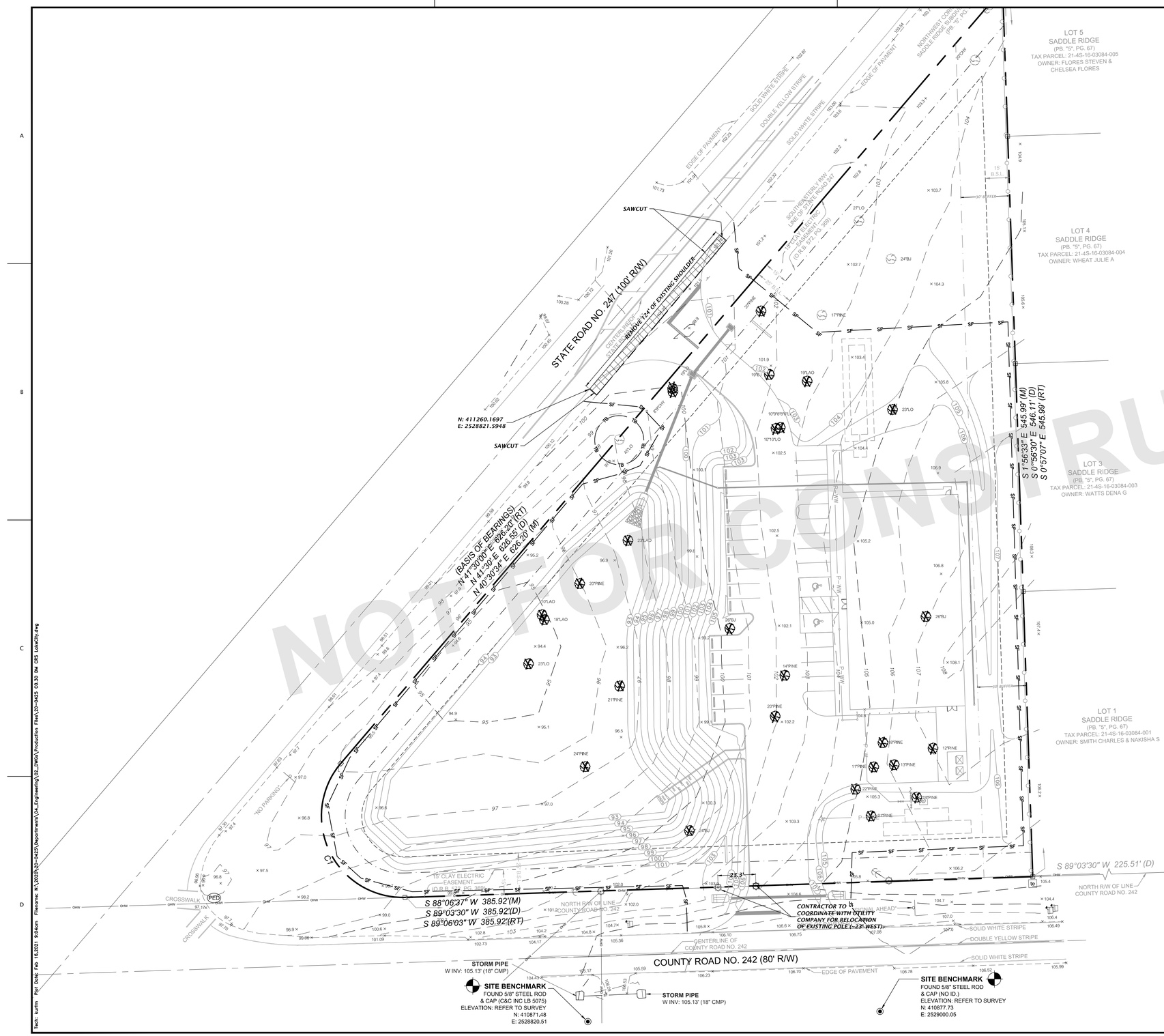

N

GRAPHIC SCALE

0 15 30 60

LEGEND

- *EXISTING TREE TO BE REMOVED*
- *EXISTING FEATURES TO BE REMOVED*
- TB — *TREE BARRICADE*
- SF — *SILT FENCE*

NOTES:

1. *CONTRACTOR SHALL HAVE ALL SILT FENCE & TREE BARRICADES INSTALLED PRIOR TO ANY SITE WORK.*
2. *CONTRACTOR SHALL REPAIR/RESTORE ANY DISTURBED AREAS TO EXISTING OR BETTER CONDITION.*
3. *CONTRACTOR TO COORDINATE WITH DOH OR FDEP FOR PROPER REMOVAL AND DISPOSAL OF ANY EX. ONSITE SEPTIC SYSTEMS OR WELL SYSTEMS.*
4. *CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING AROUND EXISTING ABOVE AND UNDERGROUND UTILITIES.*
5. *CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY COMPANY AS NEEDED TO SUPPORT POLES DURING CONSTRUCTION.*

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CONSTRUCTION BID REVISIONS:

SUBMITTALS: 2/15/21 - FIRST SUBMITTAL

CLIENT: CONCEPT DEVELOPMENT, INC.

PROJECT: CR5 LAKE CITY - SR 247 AT CR 242

SHEET TITLE: DEMOLITION AND TREE PROTECTION PLAN

TECHNICIAN: K MERRITT
DESIGNER: C THORNTON
QUALITY CONTROL: D YOUNG
PROJECT NUMBER: 20-0425

DANIEL H. YOUNG

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State of Florida, Professional Engineer, License No. 70780

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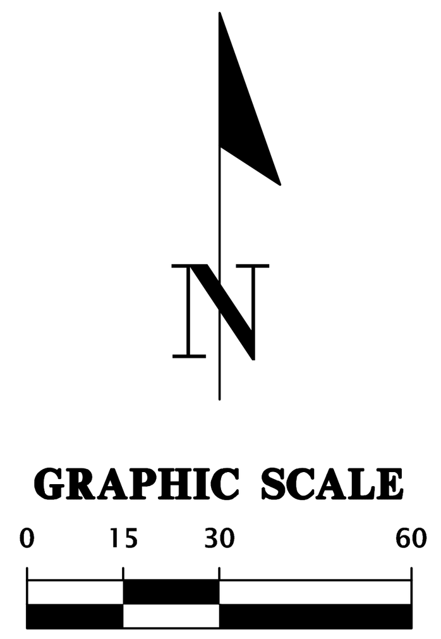


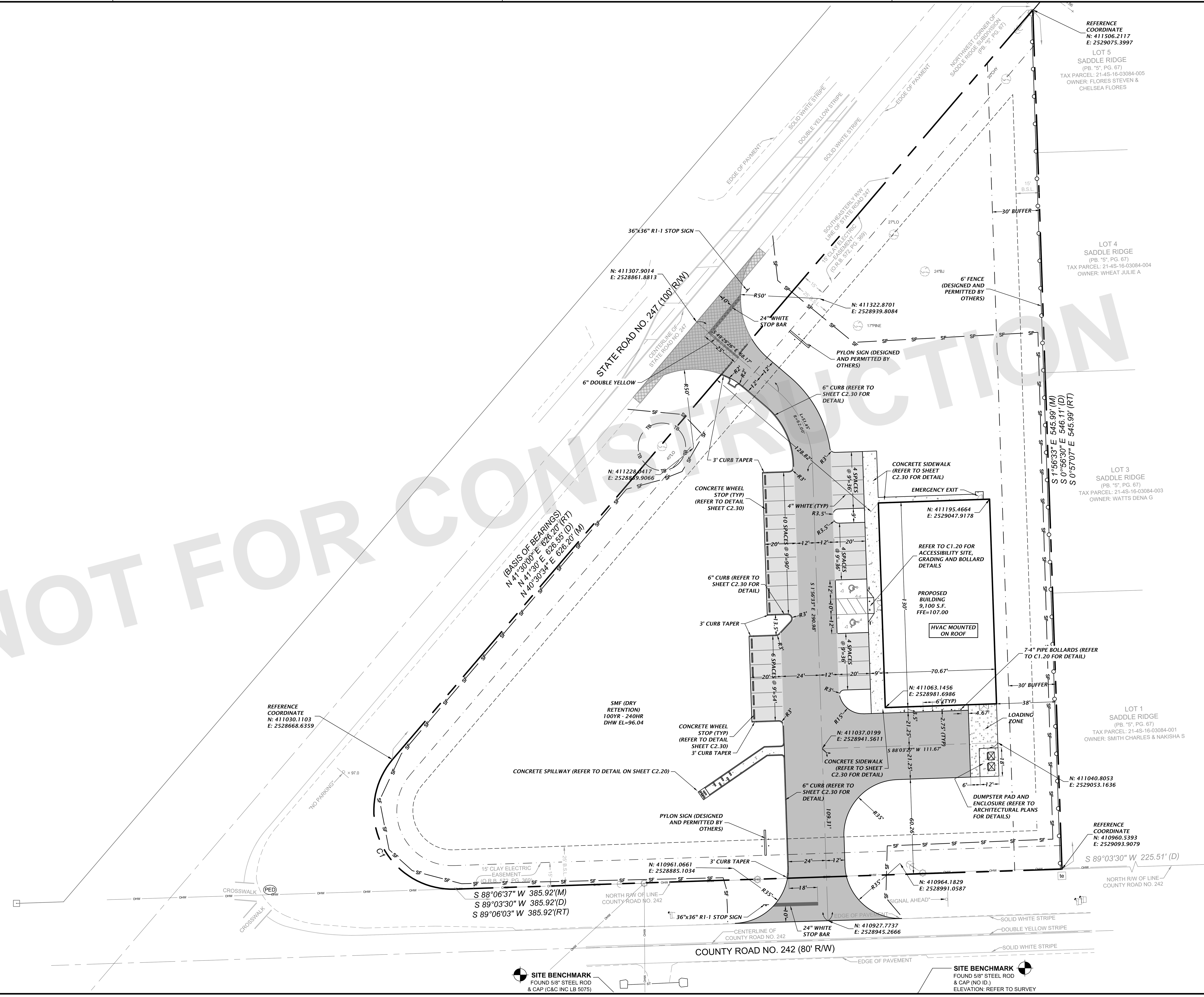
Legend
CONCRETE SIDEWALK
STANDARD DUTY CONCRETE PAVEMENT
HEAVY DUTY CONCRETE PAVEMENT
STANDARD DUTY ASPHALT
HEAVY DUTY ASPHALT
FDOT SHOULDER PAVEMENT
FDOT PAVEMENT

REFER TO SHEET C2.30 FOR PAVEMENT DETAILS

STRIPING NOTES	
YELLOW CURBING AND BOLLARDS - PARKING LOT	SURFACES SHOULD BE CLEAN, DRY AND METAL SURFACES FREE OF HEAVY RUST 2 COATS SHERWIN WILLIAMS - KEM 4000 ACRYLIC ALKYD ENAMEL SAFETY YELLOW B55Y300
STRIPING - PARKING LOT	SURFACES SHOULD BE CLEAN, DRY. TOP COAT SHERWIN WILLIAMS - PRO MAR TRAFFIC MARKING PAINT WHITE TM5495
HANDICAP STRIPING - PARKING LOT	SURFACES SHOULD BE CLEAN, DRY. TOP COAT SHERWIN WILLIAMS - PRO MAR TRAFFIC MARKING PAINT "H.C." BLUE

NOTES:

1. SEE SURVEY FOR BENCHMARK ELEVATIONS, LOCATIONS, AND DESCRIPTIONS.
2. CONTRACTOR SHALL REPAIR/RESTORE ANY DISTURBED AREAS TO EXISTING CONDITIONS OR BETTER.
3. ALL ELEMENTS THAT ARE PLACES OF PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES ON THE SITE (INCLUDING ACCESSIBLE ROUTES AND PARKING) SHALL MEET THE REQUIREMENTS OF "FLORIDA AMERICANS WITH DISABILITIES IMPLEMENTATION ACT", ADA STANDARDS FOR ACCESSIBLE DESIGN, FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION AND THE FAIR HOUSING ACT, WHERE APPLICABLE.
4. STOP SIGN SUPPORT MUST BE 2"x2" SQUARE POST, 14 FT, 14 GAUGE, 4 LBS/FT.



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CONSTRUCTION/BID REVISIONS:

SUBMITTALS: 2/15/21 - FIRST SUBMITTAL

CLIENT: CONCEPT DEVELOPMENT, INC.

PROJECT: CRS LAKE CITY - SR 247 AT CR 242

SHEET TITLE: HORIZONTAL CONTROL AND SITE PLAN

TECHNICIAN: K MERRITT
DESIGNER: C THORTON
QUALITY CONTROL: D YOUNG
PROJECT NUMBER: 20-0425

DANIEL H. YOUNG

Daniel H.Young, P.E. State of Florida, Professional Engineer, License No. 70780

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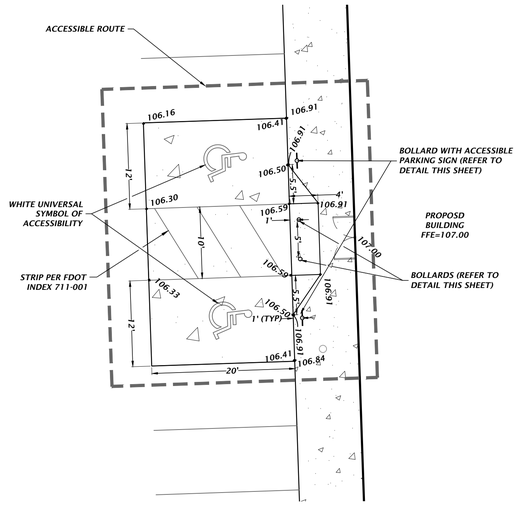
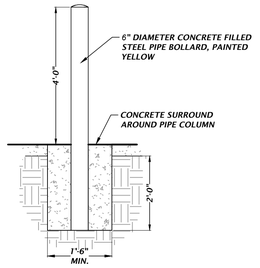
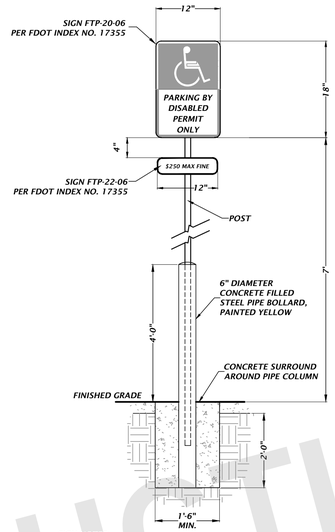




BOLLARD DETAIL

NTS

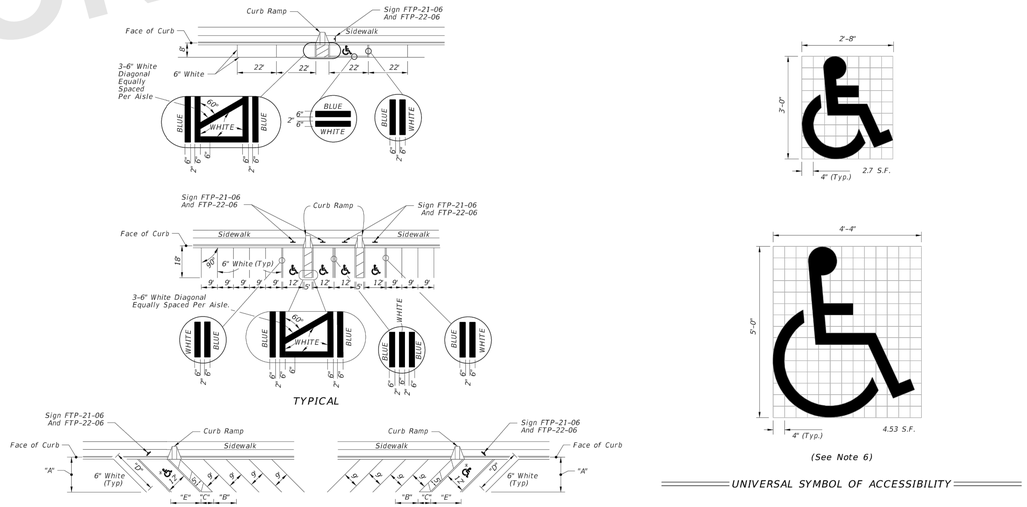


SIGN NOTES:

1. *SIGN CONSTRUCTION, DESIGN AND PLACEMENT SHALL COMPLY WITH STATE AND LOCAL STATUTES.*

BOLLARD WITH ACCESSIBLE PARKING SIGN

NTS



"FOR ACCESSIBLE MARKINGS - SEE ABOVE

DIMENSIONS					
∠ θ	"A"	"B"	"C"	"D"	"E"
45°	17'-0"	12'-9"	7'-0"	24'-0"	17'-0"

PAVEMENT MARKING FOR PARKING

(See Note 6)

UNIVERSAL SYMBOL OF ACCESSIBILITY

NOTES:

1. *Dimensions are to the centerline of markings.*
2. *An Access Aisle is required for each accessible space when angle parking is used.*
3. *Criteria for pavement markings only, not public sidewalk curb ramp locations. For ramp locations refer to plans.*
4. *Tint blue pavement markings to match color 15180 of Federal Standards 595a.*
5. *Mount FTP-22-06 sign below the FTP-21-06 sign.*
6. *Use of the pavement symbol in accessible parking spaces is optional. When pavement symbol is used, the symbol is either 3'-0" or 5'-0" high and white in color.*

LAST REVISION	DESCRIPTION:	FDOT FY 2020-21 STANDARD PLANS	PAVEMENT MARKINGS	INDEX	SHEET
11/01/19				711-001	12 of 13

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Alachua, Florida 32615
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CONSTRUCTION/BID REVISIONS:

SUBMITTALS: 2/15/21 - FIRST SUBMITTAL

CLIENT: CONCEPT DEVELOPMENT, INC.

PROJECT: CRS LAKE CITY - SR 247 AT CR 242

SHEET TITLE: ACCESSIBILITY SITE PLAN

TECHNICIAN: K MERRITT
DESIGNER: C THORNTON
QUALITY CONTROL: D YOUNG
PROJECT NUMBER: 20-0425

DANIEL H. YOUNG

Daniel H.Young, P.E.
State of Florida, Professional Engineer, License No. 70780

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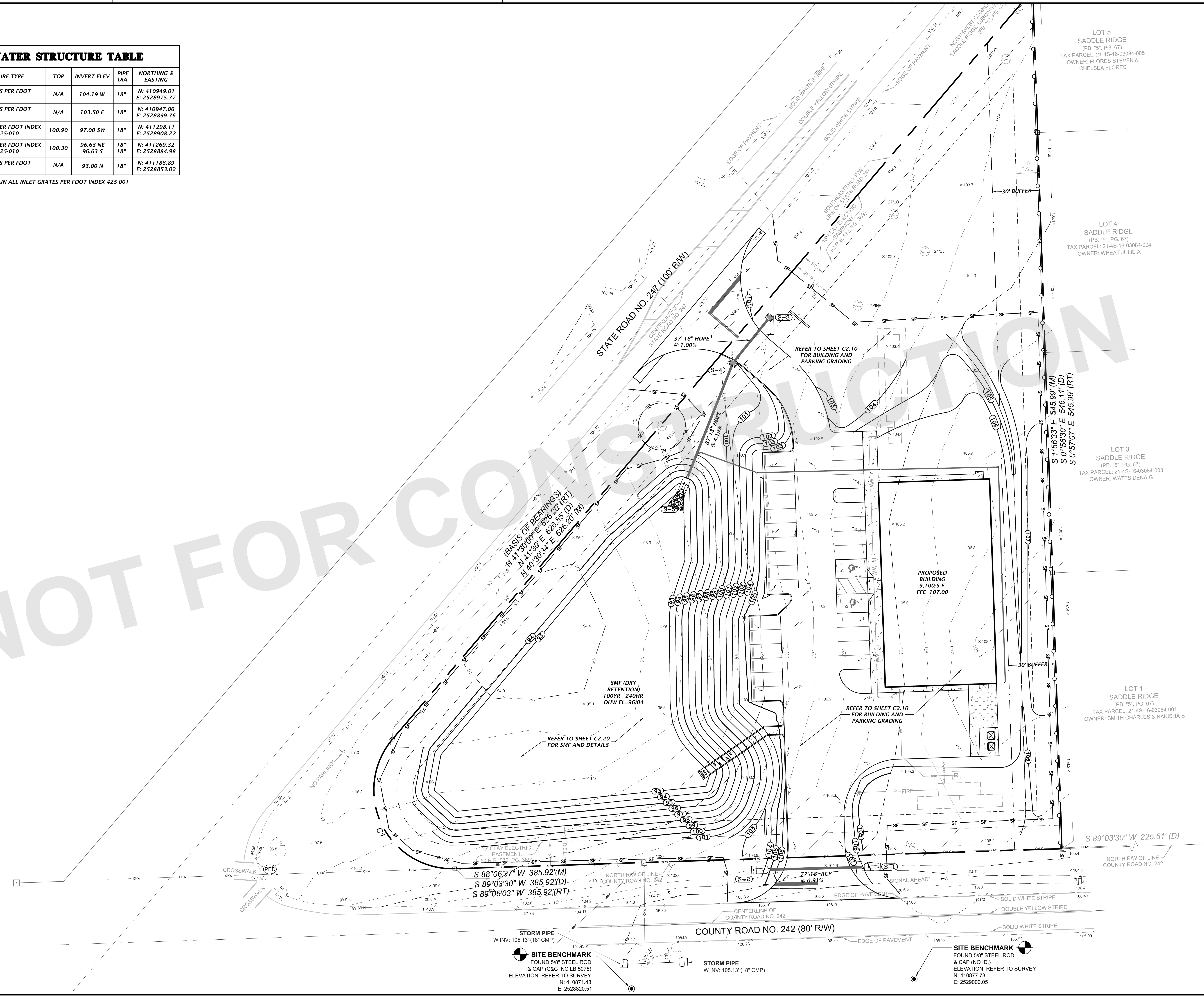
GRAPHIC SCALE

0 15 30 60

STORMWATER STRUCTURE TABLE					
STRUCTURE:	STRUCTURE TYPE	TOP	INVERT ELEV	PIPE DIA.	NORTHING & EASTING
S-1	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	104.19 W	18"	N: 410949.01 E: 2528975.77
S-2	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	103.50 E	18"	N: 410947.06 E: 2528899.76
S-3	TYPE C INLET PER FDOT INDEX 425-052 AND 425-010	100.90	97.00 SW	18"	N: 411298.11 E: 2528908.22
S-4	TYPE C INLET PER FDOT INDEX 425-052 AND 425-010	100.30	96.63 NE 96.63 S	18" 18"	N: 411269.32 E: 2528884.98
S-5	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	93.00 N	18"	N: 411188.89 E: 2528853.02

NOTE: CHAIN ALL INLET GRATES PER FDOT INDEX 425-001



NOT FOR CONSTRUCTION
STATE ROAD NO. 247 (100' R/W)
COUNTY ROAD NO. 242 (80' R/W)
(BASIS OF BEARINGS)
N 41°30'00" E 626.20' (RT)
N 41°30' E 626.55' (D)
N 40°30'34" E 626.20' (M)
S 1°56'33" E 546.99' (M)
S 0°56'30" E 546.11' (D)
S 0°57'07" E 545.99' (RT)
S 88°06'37" W 385.92'(M)
S 89°03'30" W 385.92'(D)
S 89°06'03" W 385.92'(RT)
S 89°03'30" W 225.51' (D)
PROPOSED BUILDING 9,100 S.F. FFE=107.00
SMF (DRY RETENTION) 100YR - 240HR DHW EL=96.04
REFER TO SHEET C2.10 FOR BUILDING AND PARKING GRADING
REFER TO SHEET C2.20 FOR SMF AND DETAILS
37'-18" HDPE @ 1.00%
87'-18" HDPE @ 4.19%
27'-18" RCP @ 0.91%
30' BUFFER
LOT 5 SADDLE RIDGE (PB. "5", PG. 67) TAX PARCEL: 21-4S-16-03084-005 OWNER: FLORES STEVEN & CHELSEA FLORES
LOT 4 SADDLE RIDGE (PB. "5", PG. 67) TAX PARCEL: 21-4S-16-03084-004 OWNER: WHEAT JULIE A
LOT 3 SADDLE RIDGE (PB. "5", PG. 67) TAX PARCEL: 21-4S-16-03084-003 OWNER: WATTS DENA G
LOT 1 SADDLE RIDGE (PB. "5", PG. 67) TAX PARCEL: 21-4S-16-03084-001 OWNER: SMITH CHARLES & NAKISHA S
NORTH R/W OF LINE COUNTY ROAD NO. 242
STORM PIPE W INV: 105.13' (18" CMP)
SITE BENCHMARK FOUND 5/8" STEEL ROD & CAP (C&C INC LB 5075) ELEVATION: REFER TO SURVEY N: 410871.48 E: 2528820.51
SITE BENCHMARK FOUND 5/8" STEEL ROD & CAP (NO ID.) ELEVATION: REFER TO SURVEY N: 410877.73 E: 2529000.05
CROSSWALK
SOLID WHITE STRIPE
DOUBLE YELLOW STRIPE
EDGE OF PAVEMENT
CENTERLINE OF COUNTY ROAD NO. 242

CHW Professional Consultants

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Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com

est. 1988 FLORIDA CA-5075

SCALE: 1"=30'

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/BID REVISIONS:

SUBMITTALS: 2/15/21 - FIRST SUBMITTAL

CLIENT: CONCEPT DEVELOPMENT, INC.

PROJECT: CRS LAKE CITY - SR 247 AT CR 242

SHEET TITLE: MASTER GRADING AND DRAINAGE PLAN

TECHNICIAN: K MERRITT

DESIGNER: C THORTON

QUALITY CONTROL: D YOUNG

PROJECT NUMBER: 20-0425

DANIEL H. YOUNG

Daniel H.Young, P.E. State of Florida, Professional Engineer, License No. 70780

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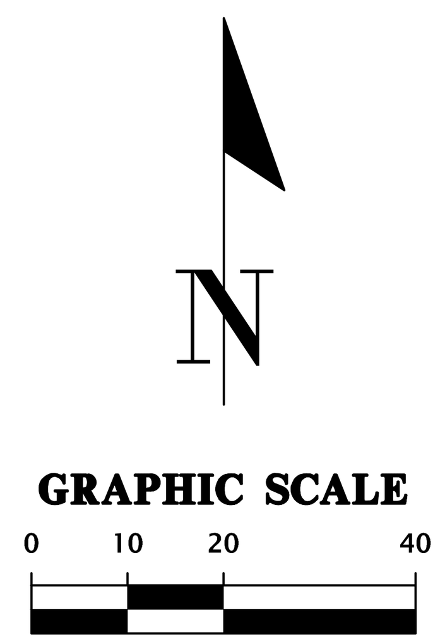
FL PE No. 70780

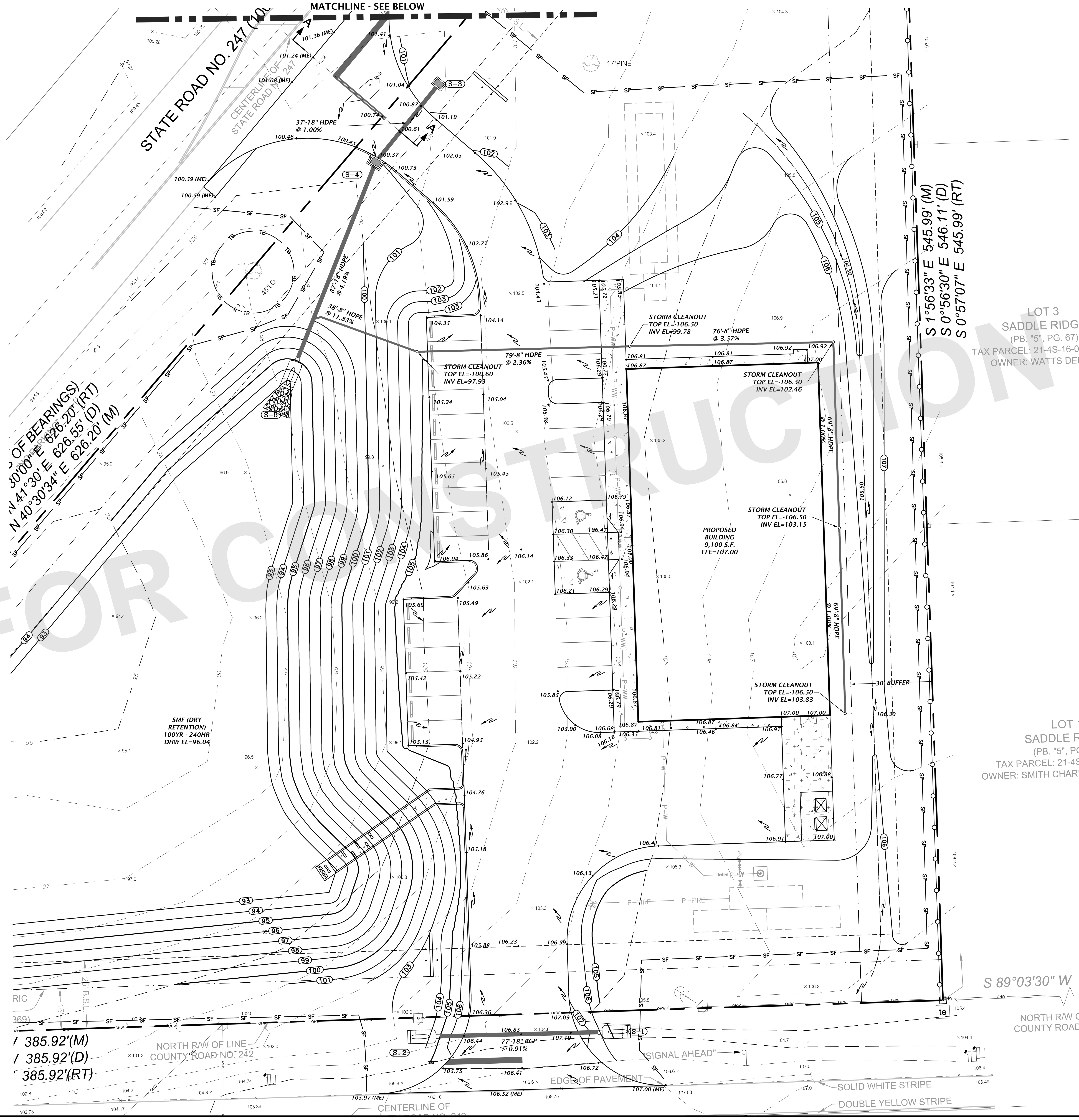
SHEET NO.: C2.00

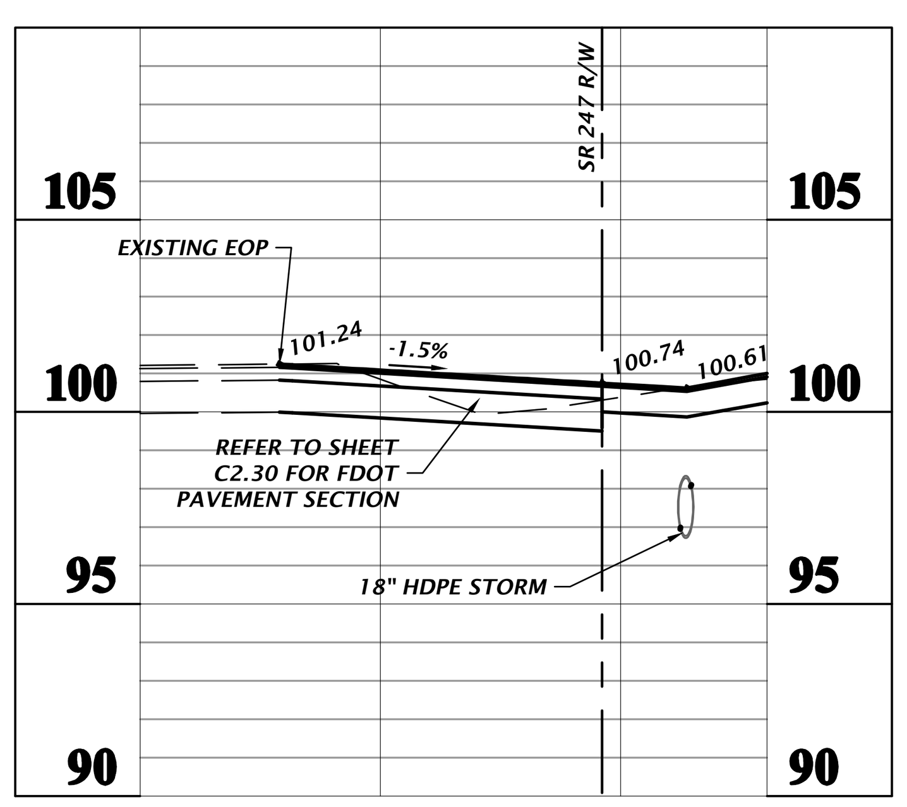


STORMWATER STRUCTURE TABLE

STRUCTURE:	STRUCTURE TYPE	TOP	INVERT ELEV	PIPE DIA.	NORTHING & EASTING
S-1	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	104.19 W	18"	N: 410949.01 E: 2528975.77
S-2	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	103.50 E	18"	N: 410947.06 E: 2528899.76
S-3	TYPE C INLET PER FDOT INDEX 425-052 AND 425-010	100.90	97.00 SW	18"	N: 411298.11 E: 2528908.22
S-4	TYPE C INLET PER FDOT INDEX 425-052 AND 425-010	100.30	96.63 NE 96.63 S	18" 18"	N: 411269.32 E: 2528884.98
S-5	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	93.00 N	18"	N: 411188.89 E: 2528853.02

NOTE: CHAIN ALL INLET GRATES PER FDOT INDEX 425-001





SECTION A-A

H: 1"=20'
V: 1"=5'

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SCALE: 1"=20'

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CONSTRUCTION/BID REVISIONS:

SUBMITTALS: 2/15/21 - FIRST SUBMITTAL

CLIENT: CONCEPT DEVELOPMENT, INC.

PROJECT: CRS LAKE CITY - SR 247 AT CR 242

SHEET TITLE: DETAILED GRADING AND DRAINAGE PLAN

TECHNICIAN: K MERRITT
DESIGNER: C THORTON
QUALITY CONTROL: D YOUNG
PROJECT NUMBER: 20-0425

DANIEL H. YOUNG

Daniel H.Young, P.E.
State of Florida, Professional Engineer, License No. 70780

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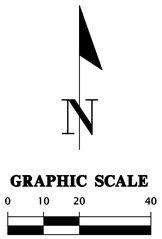
SHEET NO.: C2.10



GRAPHIC SCALE

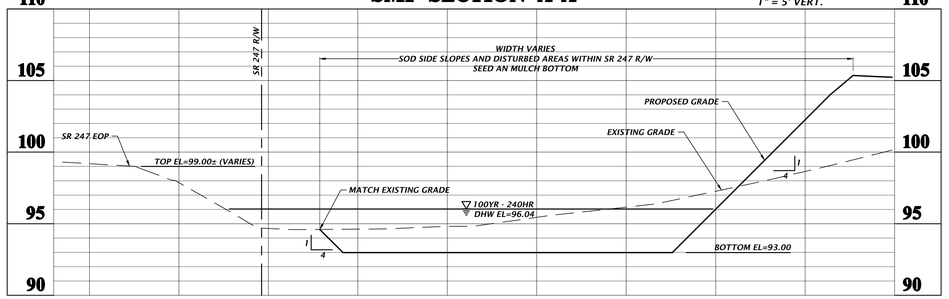
0 10 20 40

NOTE:

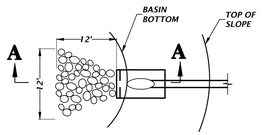
REFER TO SHEET C2.00 FOR STORM STRUCTURE INFORMATION.

SMF SECTION A-A

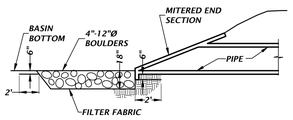
SCALE: 1" = 20' HORIZ.
1" = 5' VERT.



1. IF A CONTINUOUS LIMEROCK FORMATION IS ENCOUNTERED IN THE BASIN AREA CONTACT THE ENGINEER OF RECORD. THE LIMEROCK SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 3 FEET BEYOND THE BASIN UNDERCUT LIMITS.
2. IF A SOLUTION PIPE SINKHOLE DOES FORM IN THE STORMWATER BASIN, THEN THE SINKHOLE SHALL BE REPAIRED BY BACKFILLING WITH MATERIAL OF LOWER PERMEABILITY MATERIAL, SUCH AS CLAYEY SAND OR CLAY. THE MATERIAL SHALL BE COMPACTED AND THE SINKHOLE REPAIR SHOULD BRING THE SURFACE BACK TO AN ELEVATION WHICH IS SLIGHTLY ABOVE THE ORIGINAL BOTTOM, CREATING A SMALL MOUND.



PLAN



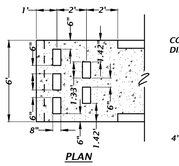
SECTION A-A

NOTES:

1. ANCHOR FILTER FABRIC BY EXTENDING BEYOND RIPRAP AND BACKFILLING AS SHOWN ON DETAIL.
2. RIPRAP SHALL NOT EXTEND ONTO SIDE SLOPES.
3. ADJUST SHAPE OF APRON WHERE REQUIRED TO MATCH TOE OF SLOPE.
4. BROKEN SLOPE IS NOT ACCEPTABLE.

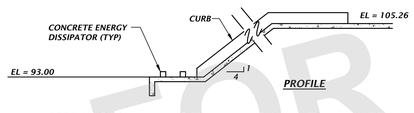
RIP-RAP EROSION PROTECTION

NTS



PLAN

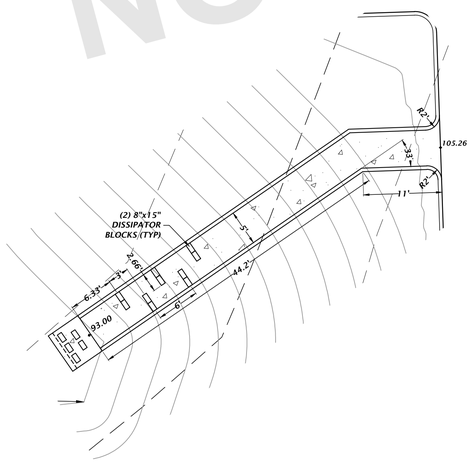
SECTION



PROFILE

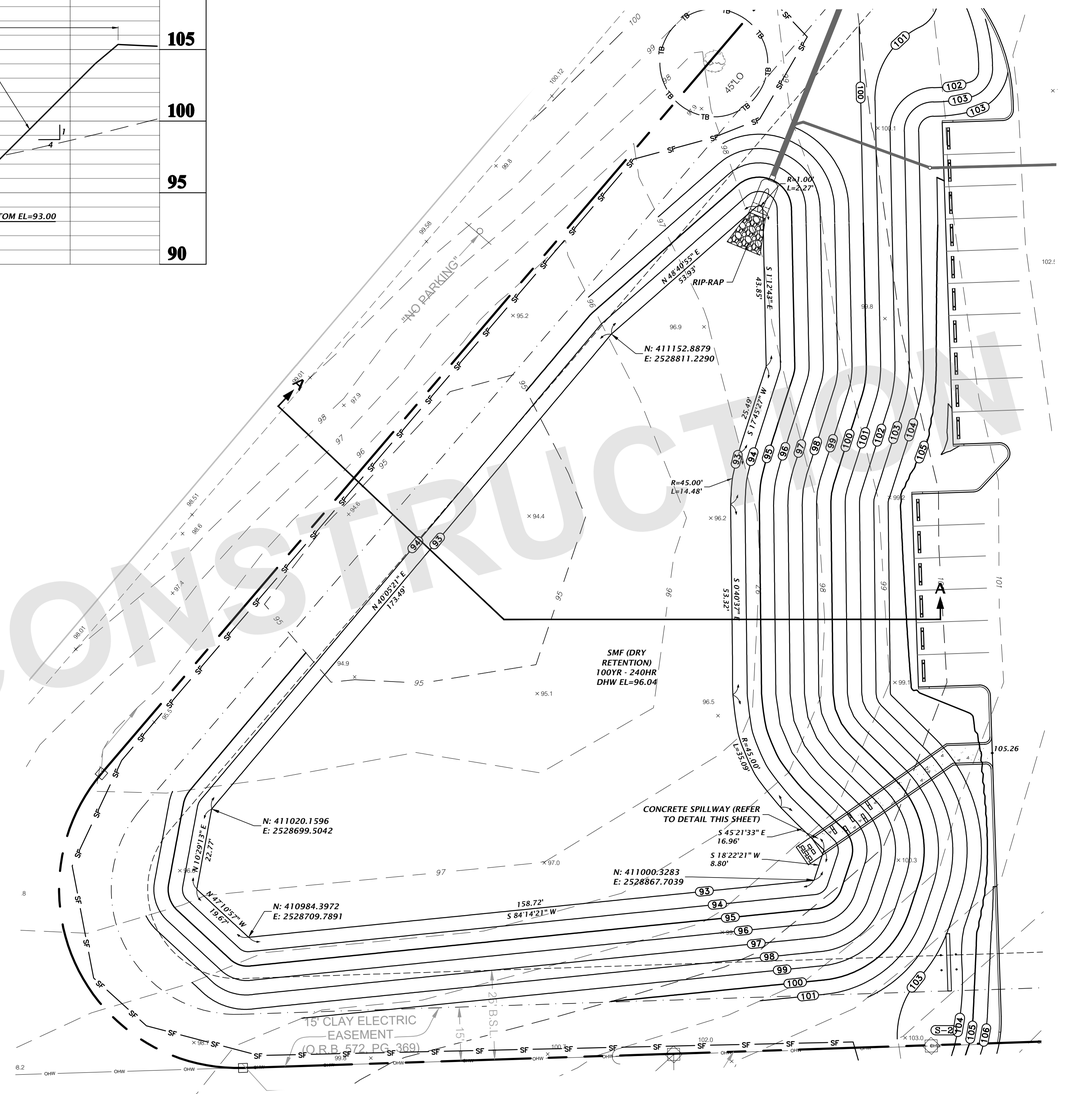
CONCRETE SPILLWAY DETAIL

NTS



CONCRETE SPILLWAY DETAIL

1" = 10'



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SCALE: 1"=20'

VERIFY SCALE
BAR IS ONE INCH ON
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IF NOT ONE INCH ON
THIS SHEET ADJUST
SCALES ACCORDINGLY.

CONSTRUCTION/BID REVISIONS:

SUBMITTALS:
2/15/21 - FIRST SUBMITTAL

CLIENT: CONCEPT DEVELOPMENT, INC.

PROJECT: CR5 LAKE CITY - SR 247 AT CR 242

SHEET TITLE: STORMWATER MANAGEMENT FACILITY

TECHNICIAN: K. MERRITT
DESIGNER: C. THORTON
QC REVIEW: D. YOUNG
PROJECT NUMBER: 20-0425

DANIEL H. YOUNG

Daniel H Young, P.E.
State of Florida, Professional Engineer, License No. 70780

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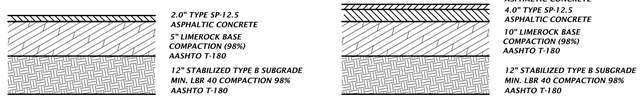
FL PE No. 70780

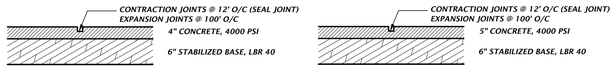
SHEET NO.:
C2.20



SHOULDER PAVEMENT DETAIL | **ASPHALT PAVEMENT DETAIL**

FDOT ASPHALT OPTIONS

NTS

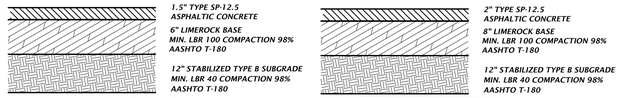


STANDARD DUTY CONCRETE DETAIL | **HEAVY DUTY CONCRETE DETAIL**

NOTE:
JOINT PATTERN AND TYPE PER FLORIDA CONCRETE & PRODUCTS ASSOCIATION SPECIFICATIONS

PORTLAND CEMENT CONCRETE ALTERNATES

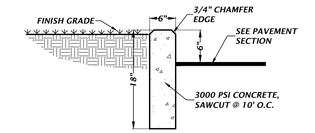
NTS



STANDARD DUTY ASPHALT DETAIL | **HEAVY DUTY ASPHALT DETAIL**

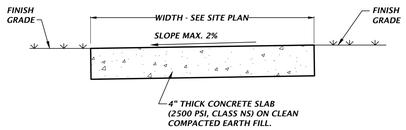
ASPHALT PAVEMENT DETAILS

NTS



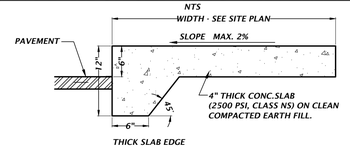
TYPICAL 6" CURB DETAIL

NTS



NOT ADJACENT TO PAVEMENT

NTS



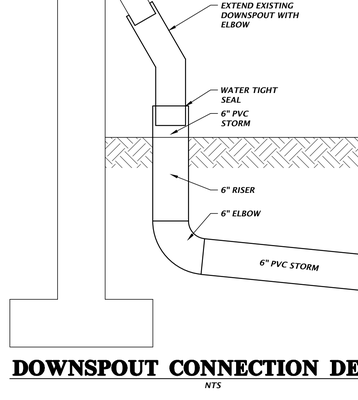
ADJACENT TO PAVEMENT

NTS

NOTES:

1. SAWCUT CONTROL JOINTS SHALL BE CONSTRUCTED 5 FEET ON CENTER
2. EXPANSION JOINTS WITH PREFORMED JOINT FILLER SHALL BE CONSTRUCTED BETWEEN ALL FIXED OBJECTS AND WALK AND AT CONSTRUCTION JOINTS.

CONCRETE SIDEWALK DETAILS

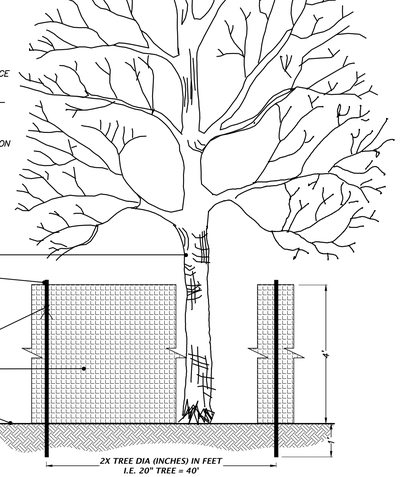


DOWNSPOUT CONNECTION DETAIL

NTS

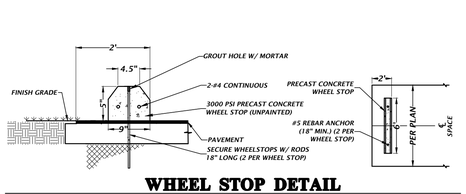
NOTE:

1. TREE BARRICADES MUST BE INSPECTED AND APPROVED BY THE CHW INSPECTOR PRIOR TO ANY CLEARING, DEMOLITION, OR GRUBBING WORK BEGINS.
2. TREE BARRICADES SHALL REMAIN IN-PLACE, AND IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. BARRICADES SHALL BE REMOVED ONCE MAJOR CONSTRUCTION IS COMPLETE AND PRIOR TO COMPLETION OF LANDSCAPE INSTALLATION.
3. NO CONSTRUCTION EQUIPMENT, MATERIALS, SUPPLIES, FUELS OR CHEMICALS SHALL BE STORED WITHIN THE TREE BARRICADE LIMITS.
4. TREE BARRICADE STAKING MAY BE ADJUSTED TO FIT CONSTRUCTION NEEDS.
5. HEAVY MULCH COVER 6"-10" DEEP TO REDUCE COMPACTION.
6. INVIGORATE TREES PRIOR TO CONSTRUCTION - LIGHT FERTILIZER (1LB. N/1000 SF)(WATER IF POSSIBLE).
7. "PRE-CUT" ROOTS AT LIMITS OF CONSTRUCTION TO PREVENT TEARING BY EQUIPMENT.



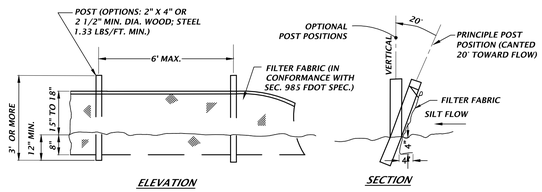
TREE BARRICADE STAKING

NTS



WHEEL STOP DETAIL

NTS



TYPE III SILT FENCE DETAIL

NTS

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Alachua, Florida 32615
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est. 1988 FLORIDA CA-9075

CHW Professional Consultants

SCALE: N/A
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING
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CONSTRUCTION/BID REVISIONS:

SUBMITTALS: 2/15/21 - FIRST SUBMITTAL

CLIENT: CONCEPT DEVELOPMENT, INC.
PROJECT: CR5 LAKE CITY - SR 247 AT CR 242
SHEET TITLE: CONSTRUCTION DETAILS

TECHNICIAN: K MERRITT
DESIGNER: C THORNTON
QA/QC CONTROL: D YOUNG
PROJECT NUMBER: 20-0425

DANIEL H. YOUNG

Daniel H.Young, P.E. State of Florida, Professional Engineer, License No. 70780

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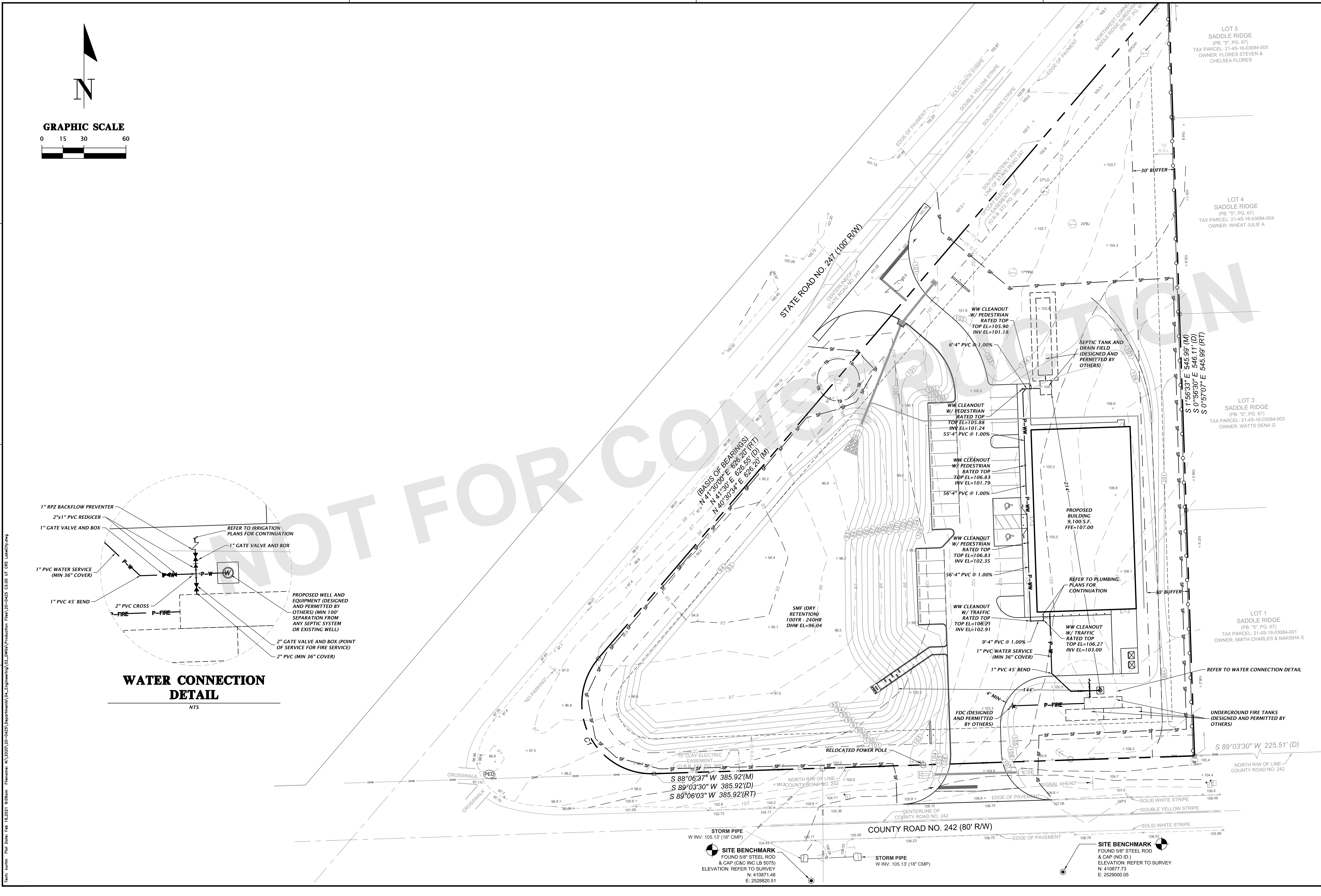
FL PE No. 70780

SHEET NO: C2.30

Tech: kurtm Plot Date: Feb 16,2021 8:06am Filename: M:\2020\20-0425\Departments\04_Engineering\02_DWGS\Production Files\20-0425 C2.30 DT CR5 Lake City.dwg



N
GRAPHIC SCALE
0 15 30 60
NOT FOR CONSTRUCTION
STATE ROAD NO. 247 (100' R/W)
COUNTY ROAD NO. 242 (80' R/W)
(BASIS OF BEARINGS)
N 41°30'00" E 626.20'(RT)
N 41°30' E 626.55' (D)
N 40°30'34" E 626.20' (M)
S 1°56'33" E 546.99' (M)
S 0°56'30" E 546.11' (D)
S 0°57'07" E 545.99' (RT)
S 88°06'37" W 385.92'(M)
S 89°03'30" W 385.92'(D)
S 89°06'03" W 385.92'(RT)
S 89°03'30" W 225.51' (D)
LOT 5
SADDLE RIDGE
(PB. "5", PG. 67)
TAX PARCEL: 21-4S-16-03084-005
OWNER: FLORES STEVEN & CHELSEA FLORES
LOT 4
SADDLE RIDGE
(PB. "5", PG. 67)
TAX PARCEL: 21-4S-16-03084-004
OWNER: WHEAT JULIE A
LOT 3
SADDLE RIDGE
(PB. "5", PG. 67)
TAX PARCEL: 21-4S-16-03084-003
OWNER: WATTS DENA G
LOT 1
SADDLE RIDGE
(PB. "5", PG. 67)
TAX PARCEL: 21-4S-16-03084-001
OWNER: SMITH CHARLES & NAKISHA S
30' BUFFER
PROPOSED BUILDING
9,100 S.F.
FFE=107.00
SEPTIC TANK AND DRAIN FIELD (DESIGNED AND PERMITTED BY OTHERS)
WW CLEANOUT W/ PEDESTRIAN RATED TOP
TOP EL=105.90
INV EL=101.18
6'-4" PVC @ 1.00%
WW CLEANOUT W/ PEDESTRIAN RATED TOP
TOP EL=105.88
INV EL=101.24
55'-4" PVC @ 1.00%
WW CLEANOUT W/ PEDESTRIAN RATED TOP
TOP EL=106.83
INV EL=101.79
56'-4" PVC @ 1.00%
WW CLEANOUT W/ PEDESTRIAN RATED TOP
TOP EL=106.83
INV EL=102.35
56'-4" PVC @ 1.00%
REFER TO PLUMBING PLANS FOR CONTINUATION
WW CLEANOUT W/ TRAFFIC RATED TOP
TOP EL=106.21
INV EL=102.91
9'-4" PVC @ 1.00%
WW CLEANOUT W/ TRAFFIC RATED TOP
TOP EL=106.27
INV EL=103.00
1" PVC WATER SERVICE (MIN 36" COVER)
1" PVC 45' BEND
REFER TO WATER CONNECTION DETAIL
UNDERGROUND FIRE TANKS (DESIGNED AND PERMITTED BY OTHERS)
FDC (DESIGNED AND PERMITTED BY OTHERS)
RELOCATED POWER POLE
SMF (DRY RETENTION)
100YR - 240HR
DHW EL=96.04
STORM PIPE
W INV: 105.13' (18" CMP)
SITE BENCHMARK
FOUND 5/8" STEEL ROD & CAP (C&C INC LB 5075)
ELEVATION: REFER TO SURVEY
N: 410871.48
E: 2528820.51
SITE BENCHMARK
FOUND 5/8" STEEL ROD & CAP (NO ID.)
ELEVATION: REFER TO SURVEY
N: 410877.73
E: 2529000.05
NORTH R/W OF LINE COUNTY ROAD NO. 242
CENTERLINE OF COUNTY ROAD NO. 242
EDGE OF PAVEMENT
SOLID WHITE STRIPE
DOUBLE YELLOW STRIPE
SIGNAL AHEAD
CROSSWALK
15' CLAY ELECTRIC EASEMENT
1" RPZ BACKFLOW PREVENTER
2"x1" PVC REDUCER
1" GATE VALVE AND BOX
1" PVC WATER SERVICE (MIN 36" COVER)
1" PVC 45' BEND
2" PVC CROSS
REFER TO IRRIGATION PLANS FOR CONTINUATION
1" GATE VALVE AND BOX
PROPOSED WELL AND EQUIPMENT (DESIGNED AND PERMITTED BY OTHERS) (MIN 100' SEPARATION FROM ANY SEPTIC SYSTEM OR EXISTING WELL)
2" GATE VALVE AND BOX (POINT OF SERVICE FOR FIRE SERVICE)
2" PVC (MIN 36" COVER)
WATER CONNECTION DETAIL
NTS

CHW Professional Consultants

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Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075

SCALE: 1"=30'

VERIFY SCALE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/BID REVISIONS

SUBMITTALS: 2/15/21 - FIRST SUBMITTAL

CLIENT: CONCEPT DEVELOPMENT, INC.

PROJECT: CRS LAKE CITY - SR 247 AT CR 242

SHEET TITLE: UTILITY PLAN

TECHNICIAN: K MERRITT
DESIGN: C THORTON
QUALITY CONTROL: D YOUNG
PROJECT NUMBER: 20-0425

DANIEL H. YOUNG

Daniel H.Young, P.E. State of Florida, Professional Engineer, License No. 70780

This item has been digitally signed and sealed by Daniel H. Young, P.E. on the date indicated here. 02/16/2021

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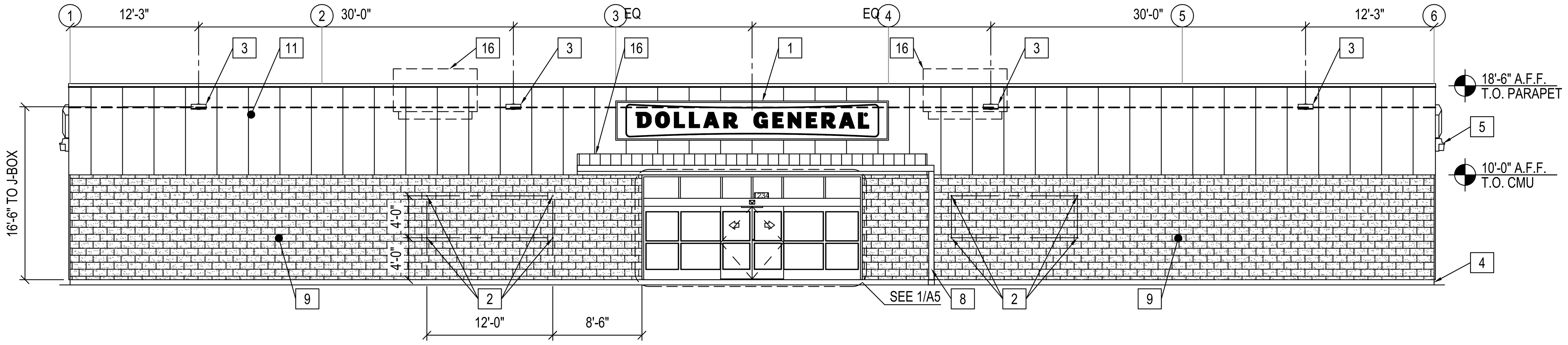
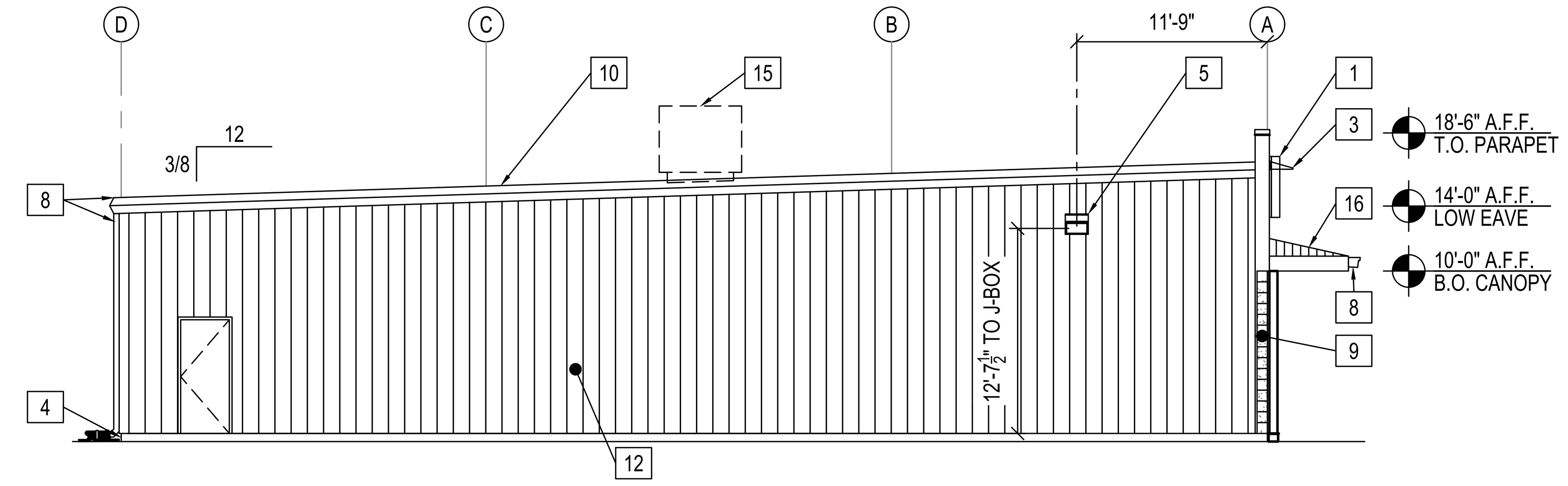
FL PE No. 70780

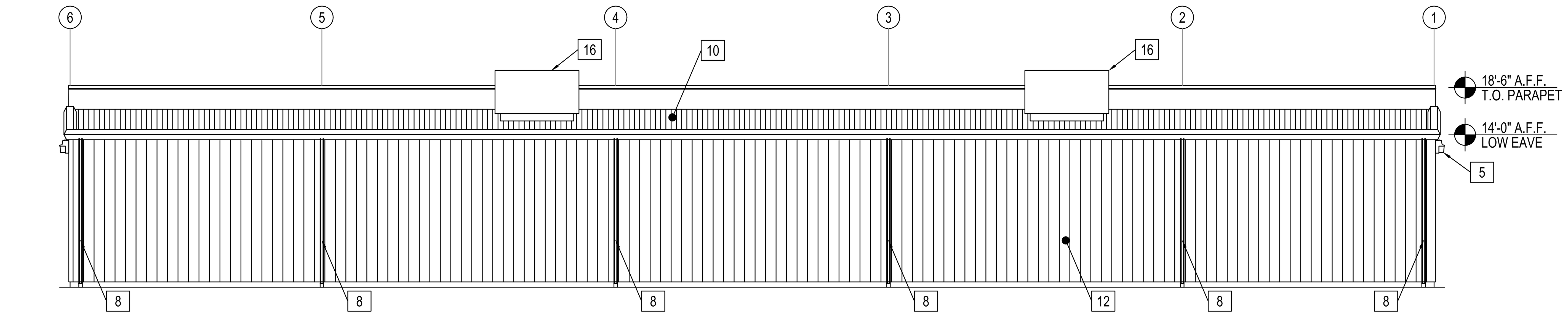
SHEET NO.: C3.00



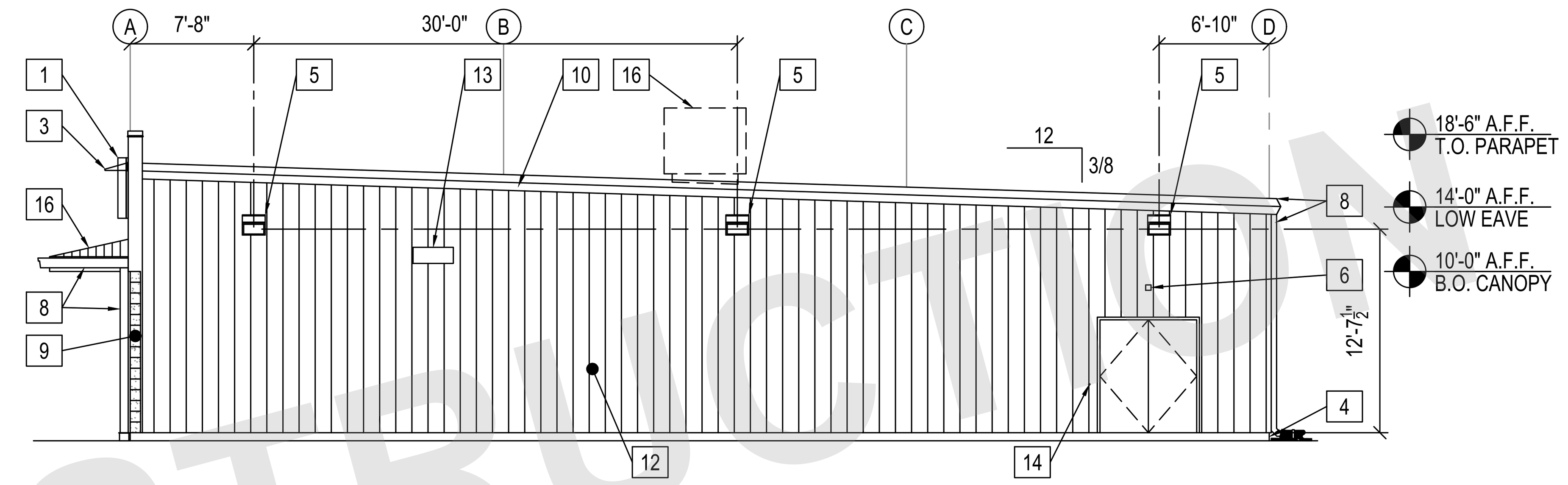
1 A2.0 FRONT ELEVATION
SCALE: 1/8" = 1'-0"



3 A2.0 LEFT ELEVATION
SCALE: 1/8" = 1'-0"



2 A2.0 REAR ELEVATION
SCALE: 1/8" = 1'-0"



4 A2.0 RIGHT ELEVATION
SCALE: 1/8" = 1'-0"

DUMPSTER KEY NOTES

1. TOP OF WALL, BOND BEAM SOLID POURED CONT. W/(2) #5 REBAR
2. SOLID POURED CELL EVERY 48" W/(1) #5 CONT. DRILLED & EPOXIED FROM TOP TO BOTTOM W/12" HOOK EACH END AND MIN. 30" SPLICE
3. 8" SPLI-FACED CMU W/(1) #5 AT 48" O.C. TYP. (PAINT BLOCK TO MATCH BUILDING
4. FINISHED SLAB
5. 20"x18" CONCRETE FOOTING
6. (2) #5 CONT. W/12" STANDARD HOOK
7. 6" STEEL BOLLARD, POUR SOLID. PAINT TO MATCH BUILDING/CMU. SEE CIVIL PLANS FOR EMBEDMENT.
8. DUMPSTER (NIC)

CONCRETE FOOTING W/REINFORCED CONCRETE AS SHOWN

CONCRETE SHALL BE STANDARD MIX F'c=3000 PSI FOR ALL FOOTINGS AND SLABS OR SHALL BE STANDARD PUMP MIX F'x=3000 PSI. STRENGTH SHALL BE ATTAINED WITHIN 28 DAYS OF PLACEMENT. MIXING, PLACING AND FINISHING SHALL BE PER ACI STANDARDS.

CONCRETE SHALL BE PER MANUFATURER'S PRODUCT GUIDE ASTM C-90 REQUIREMENTS WITH MEDIUM SURFACE FINISH.

MORTAR SHALL BE TYPE 'M' OR 'N' FOR ALL MASONRY UNITS.

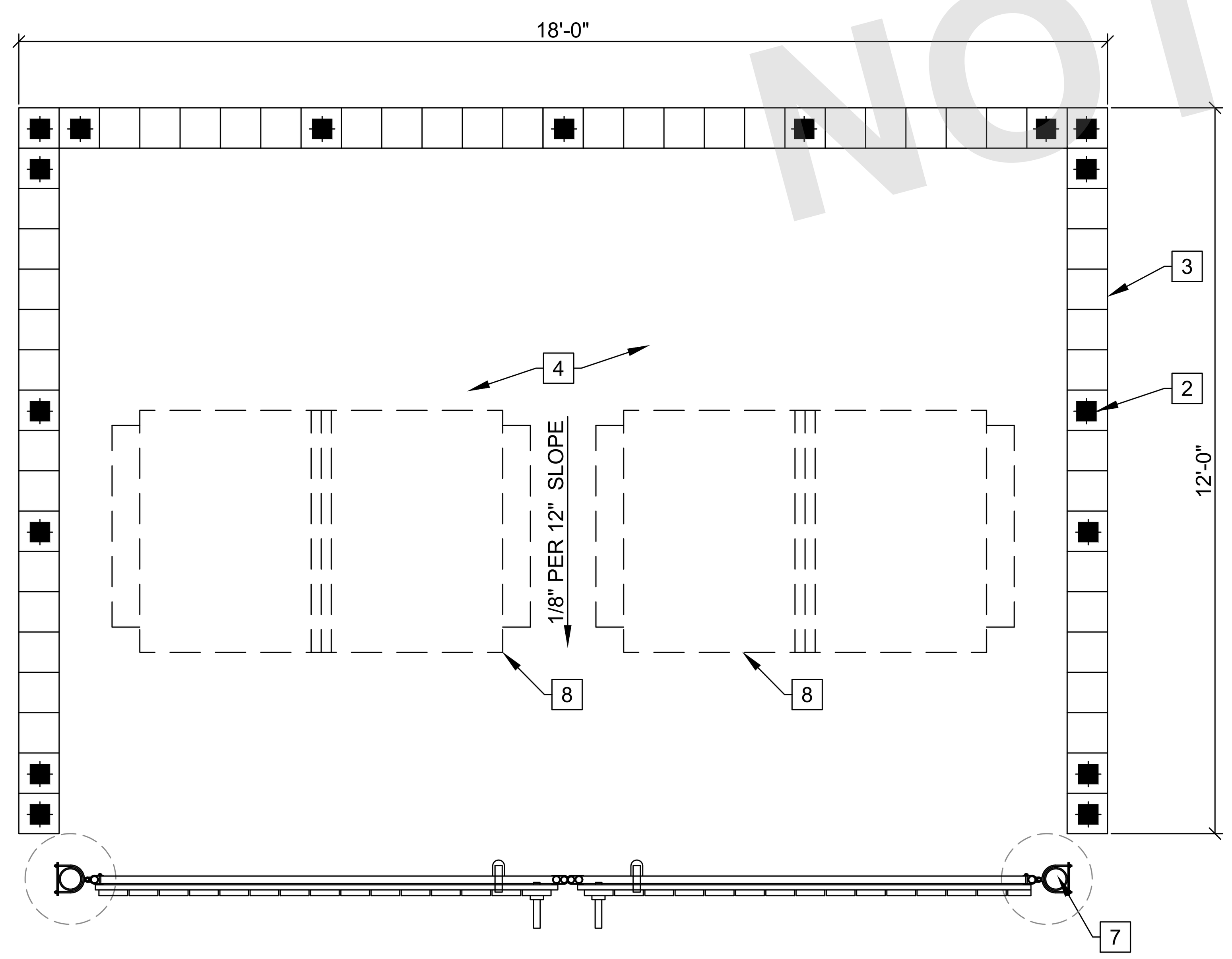
DUMPSTER ENCL. CONCRETE SPECS:

CONSTRUCT FOOTING w/REINFORCED CONCRETE AS SHOWN.

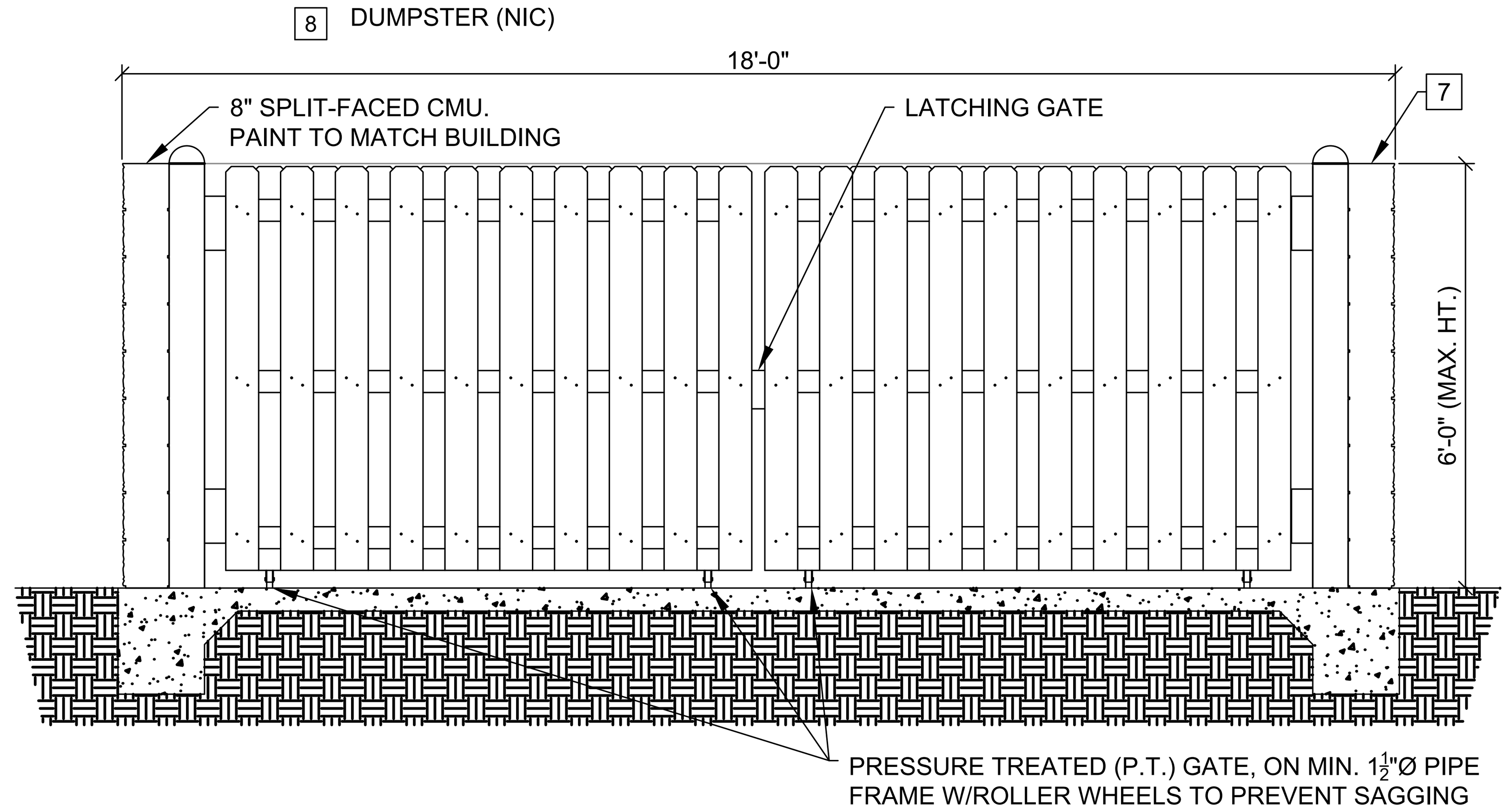
CONCRETE SHALL BE STANDARD MIX F'c = 3000 PSI FOR ALL FOOTINGS AND SLABS OR SHALL BE STANDARD PUMP MIX F'c = 3000 PSI. STRENGTH SHALL BE ATTAINED WITHIN 28 DAYS OF PLACEMENT. MIXING, PLACING AND FINISHING SHALL BE AS PER ACI STANDARDS.

CONCRETE BLOCK PER ASTM C-90 REQUIREMENTS WITH MEDIUM SURFACE FINISH. SEE SPECS ON A-12.

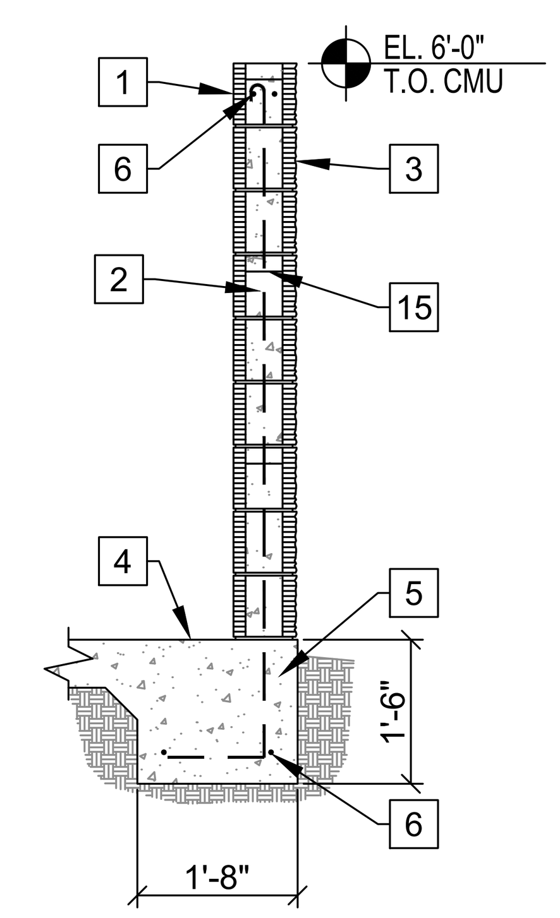
USE TYPE 'M' OR 'N' MORTAR TO LAY UP CONCRETE MASONRY BLOCK.



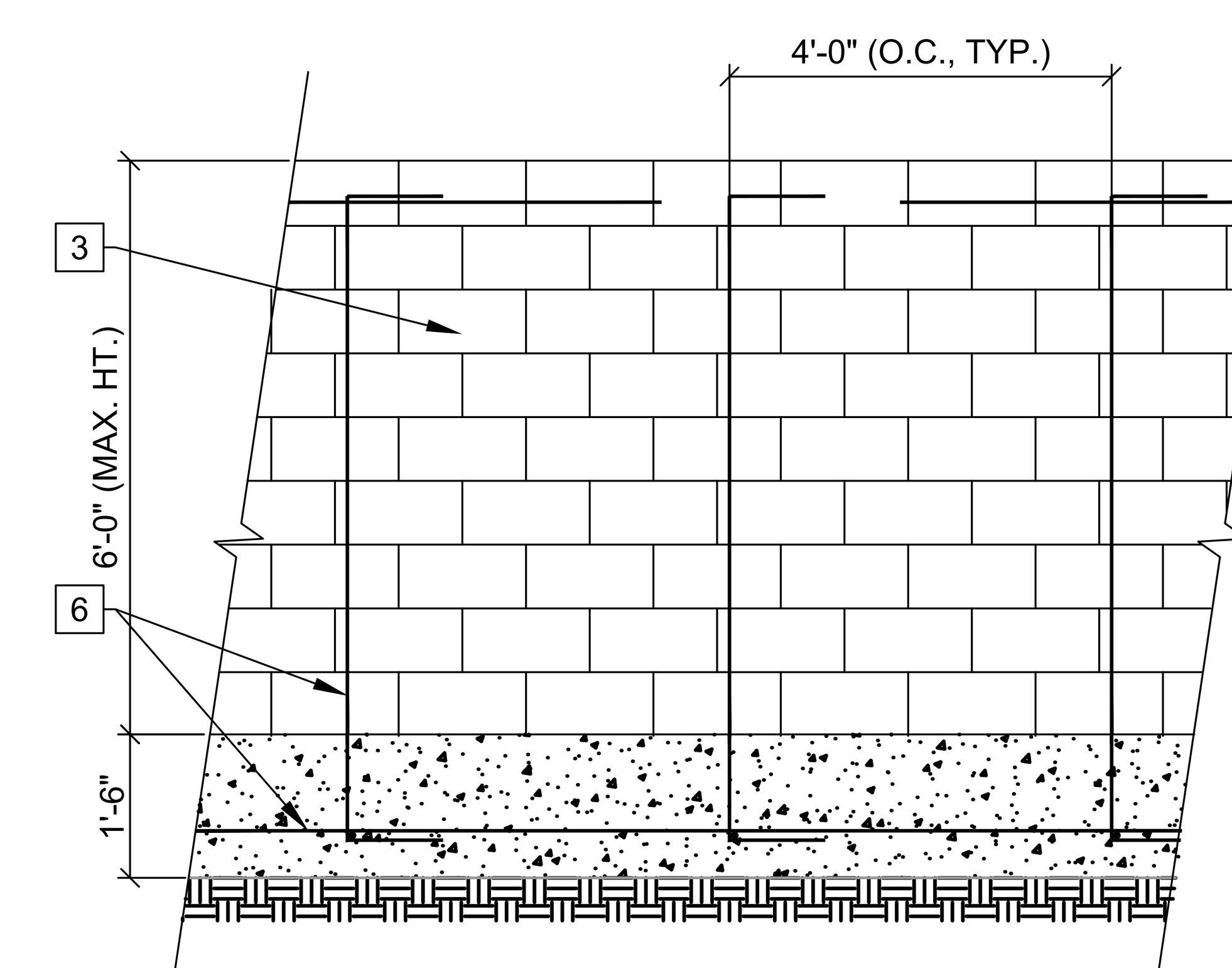
4A C1 DUMPSTER ENCLOSURE PLAN
SCALE: 1/2" = 1'-0"



4B C1 DUMPSTER ENCLOSURE ELEVATION
SCALE: 1/2" = 1'-0"



4C C1 TYP. SECTION
SCALE: 1/2" = 1'-0"



4D C1 REBAR ELEVATION
SCALE: 1/2" = 1'-0"

NOT FOR CONSTRUCTION

JAMES BLYTHE
REGISTERED ARCHITECT
RA LEED AP BD+C
3324 W. UNIVERSITY AVE
PMB#151
GAINESVILLE, FL 32607
AR94452

CONCEPT COMPANIES
3917 NW 97TH BOULEVARD/ GAINESVILLE, FL 32606
LICENCE# CGC-1515491
PH: 877-309-1029 / FAX: 800-218-7809
WWW.CONCEPTCOMPANIES.NET

DOLLAR GENERAL®
SR 19 & CR 242
LAKE CITY, FL 32024
STORE #TBD
2019 PROTOTYPE - PLAN 'DGP-D' - 9,100 SQ. FT.

DRAWING DATE: / DRAWN BY:
2/1/21 - JEM
REVISION DATE: / REVISED BY:

PROJECT NUMBER:
4000.213

DRAWING TITLE:
EXTERIOR ELEVATIONS & EXTERIOR FINISH SCHEDULE

SHEET NO.
A2

Trees

Quantity	Abbr.	Botanical Name /	Size / Caliper	Spacing	Comments
5	see tree id key	*Quercus virginiana* live oak	4'ht.	per plan	
4		*Ulmus alata* winged elm	4'ht.	per plan	
2		*Lagerstroemia indica 'Natchez'* crape myrtle	4'ht., std.	per plan	

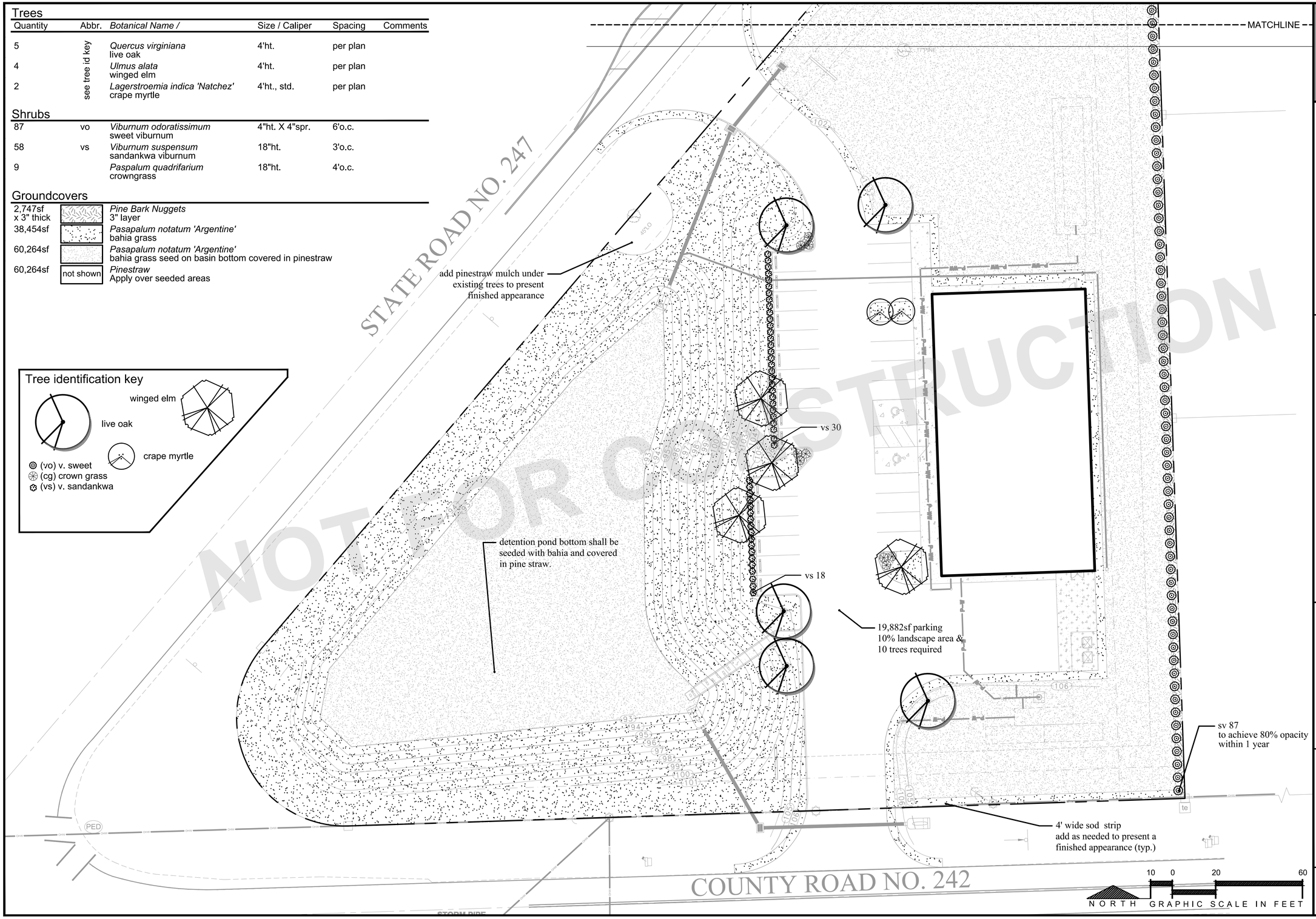
Shrubs

87	vo	*Viburnum odoratissimum* sweet viburnum	4"ht. X 4"spr.	6'o.c.	
58	vs	*Viburnum suspensum* sandankwa viburnum	18"ht.	3'o.c.	
9		*Paspalum quadrifarium* crowngrass	18"ht.	4'o.c.	

Groundcovers

2,747sf x 3" thick		*Pine Bark Nuggets* 3" layer
38,454sf		*Pasapalum notatum 'Argentine'* bahia grass
60,264sf		*Pasapalum notatum 'Argentine'* bahia grass seed on basin bottom covered in pinestraw
60,264sf	not shown	*Pinestraw* Apply over seeded areas

Tree identification key



BORTON DESIGN INC.
1354 N KYLE WAY SAINT JOHNS, FLORIDA
CERT. OF AUTH. # LC26000403
(904) 234-6510 BDB@BORTONDESIGN.COM

LANDSCAPE PLAN

COMMERCIAL RETAIL STORE - LAKE CITY SR 247
PREPARED FOR
CONCEPT DEVELOPMENT, LLC.

BDI NO. 21126 REVISIONS:
DRAWN BY: BDB
DESIGNED BY: BDB
CHECKED BY: BDB
DATE: 02/11/2021

PLANS PREPARED BY
BRIAN DAVID BORTON FL. NO. LA6667028

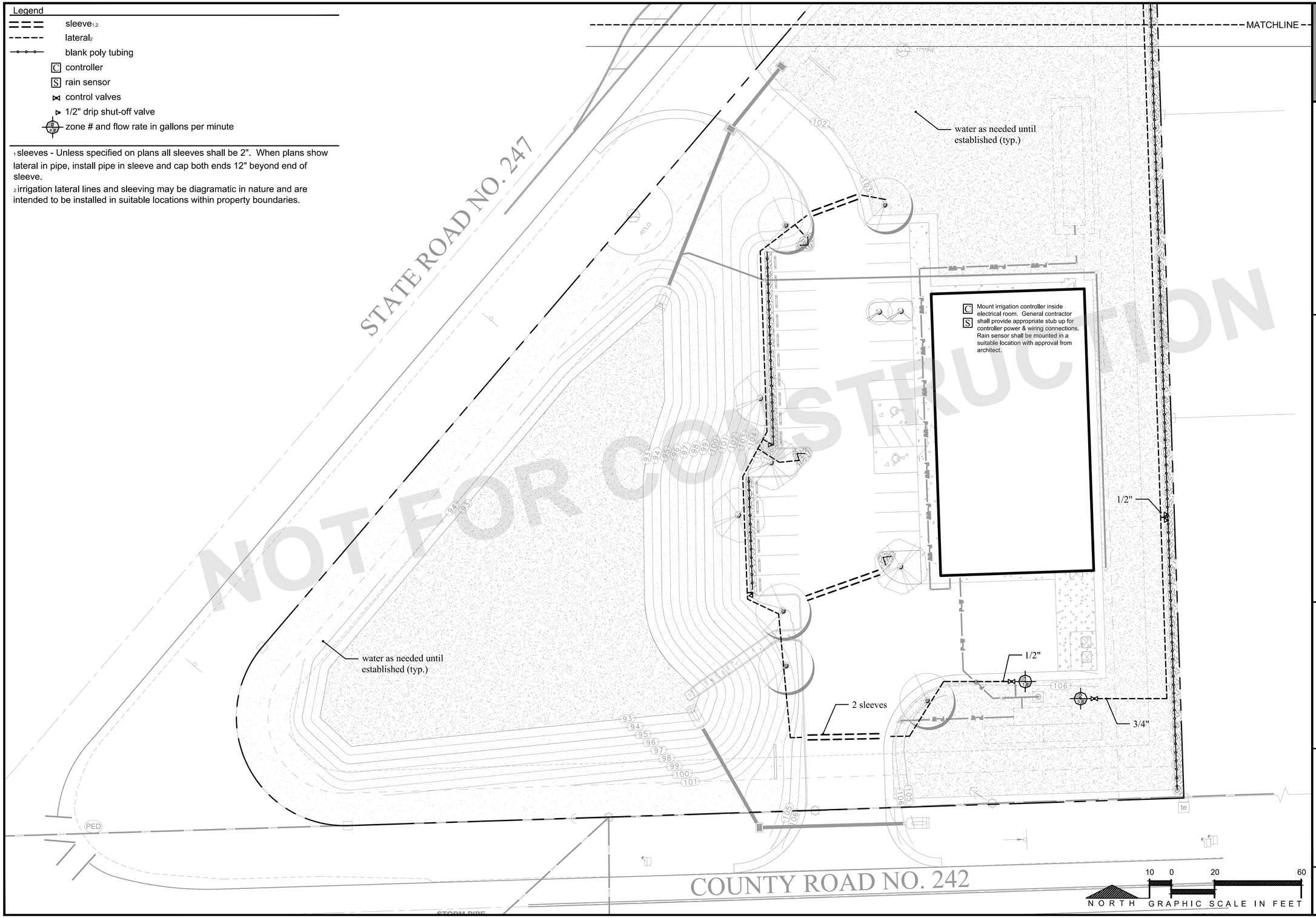
LS-01

Legend

- sleeve[1,2]
- lateral[2]
- blank poly tubing
- C controller
- S rain sensor
- control valves
- 1/2" drip shut-off valve
- zone # and flow rate in gallons per minute

[1] sleeves - Unless specified on plans all sleeves shall be 2". When plans show lateral in pipe, install pipe in sleeve and cap both ends 12" beyond end of sleeve.

[2] irrigation lateral lines and sleeving may be diagramatic in nature and are intended to be installed in suitable locations within property boundaries.



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IRRIGATION PLAN

COMMERCIAL RETAIL STORE - LAKE CITY SR 247
PREPARED FOR
CONCEPT DEVELOPMENT, LLC.

BDI NO. 21126 REVISIONS:
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CHECKED BY: BDB
DATE: 02/11/2021

PLANS PREPARED BY

BRIAN DAVID BORTON FL. NO. LA6667028

LS-02

Irrigation Notes

1. Dripline. Drip shall be installed on top of soil and covered with mulch.
2. Control Valves & Regulators. Control valves shall be installed and set 5% over proposed flow.
3. Pipe. 1/2" pipe shall be Class 315 PVC. Piping larger than 1/2" shall use Class 200 PVC.
4. Irrigation materials not identified on irrigation schedule or in specifications as to brand and model # shall be either Rainbird, Nelson, or Hunter and sized appropriately by contractor to meet requirements by the manufacturer. Contractor shall include all materials including quantity, model, size, and installed price for each item on bid form.
5. All irrigation revisions shall be submitted to Columbia County for review and approval prior to installation.
6. No irrigation to be provided at sod. Contractor shall irrigate with a water truck as needed for the first two weeks.
7. Pipe shall not be installed within 50% of any existing tree dripline UNLESS piping is installed via a trenchless installation method.

Watering Schedule for Zone 1 & 2

Water all plants listed once per day for 60 minutes during the first month and every other day until established afterwards. Shrub drip valves may be shut-off after 3 months. After one year trees should be sufficiently rooted into existing soil for shutdown; however, it is recommended that a review be performed by a certified arborist before shutting off the system. After establishment irrigation should be turned on IF a drought occurs. Bahia grass shall be temporarily watered via hand moved sprinklers for two weeks if rainfall is not occurring as needed.

Number of emitters per tree/shrub

live oak	2-2gph emitters
winged elm	2-2gph emitters
crape myrtle	2-2gph emitters
v. sandankwa	1-1gph emitter
v. sweet	1-1gph emitter
crown grass	1-.5gph emitter

Irrigation Schedule

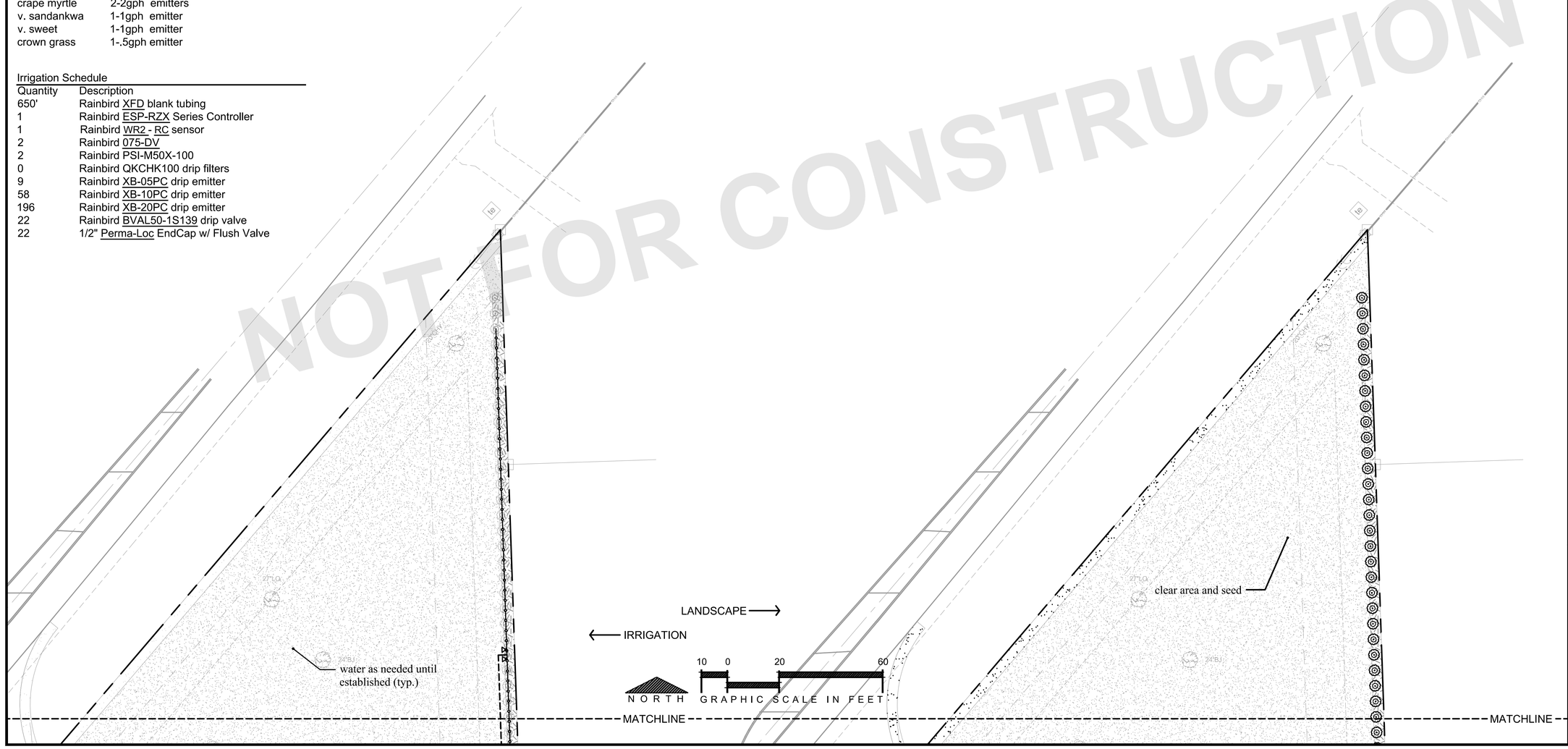
Quantity	Description
650'	Rainbird XFD blank tubing
1	Rainbird ESP-RZX Series Controller
1	Rainbird WR2 - RC sensor
2	Rainbird 075-DV
2	Rainbird PSI-M50X-100
0	Rainbird QKCHK100 drip filters
9	Rainbird XB-05PC drip emitter
58	Rainbird XB-10PC drip emitter
196	Rainbird XB-20PC drip emitter
22	Rainbird BVAL50-1S139 drip valve
22	1/2" Perma-Loc EndCap w/ Flush Valve

Landscape General Notes

1. Contractor shall provide proposed soil amendment quantities on bid form to ensure healthy vigorous growth of plant material, lateral movement of irrigation water within soil, & soil nutrient holding capacity.
2. Any vegetation planted adjacent to a parking stall where it may interfere with a vehicles door opening shall be offset 2' from back of curb. Trim plant material as needed to keep a 6" clearance from back of curb in these areas.
3. ALL mulched areas adjacent to edge of curb, pavement, shall be composed of a compressed 3" thick layer of mulch. Top of mulch shall be 1/2" below edge of adjacent surface so mulch has a containment edge.
4. ALL proposed sod areas adjacent to edge of curb/pavement shall be excavated so the sod does not impede water runoff into the pervious areas.
5. All revisions shall be submitted to the Columbia County for review and approval prior to installation.

Soil Testing

Existing soil composition has not been tested. Contractor excavate 2' depth all material used in construction of parking lots and buildings inside plant beds and infill with suitable soil and amendments to support healthy growth.



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LANDSCAPE PLAN

COMMERCIAL RETAIL STORE - LAKE CITY SR 247
PREPARED FOR
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BDI NO. 21126 REVISIONS:
DRAWN BY: BDB
DESIGNED BY: BDB
CHECKED BY: BDB
DATE: 02/11/2021

PLANS PREPARED BY
BRIAN DAVID BORTON FL. NO. LA6667028

LS-03

LANDSCAPE PART 1 GENERAL NOTES

Scope. This section includes all planting of shrubs, trees, ground covers, and other landscape supplementary work shown on the drawings and specified herein, complete.

Applicable Documents. The following publications, specifications, and standards of the issues listed in this paragraph (including the amendments and addenda designated), but referred to hereinafter by basic designation only, form a part of this specification to the extent required by the references thereto.

Publication of Reference. Publications as herein listed shall be held in basic reference:

Grades and Standards for Nursery Plants, Parts I and II, State Department of Agriculture and/or State Plant Board of Florida, Seagle Building, Gainesville, Florida.

State of Florida Fertilizer Law, Office of the Secretary of State, Tallahassee, Florida.

American Standard for Nursery Stock (ANSIZ60.1-), American Association of Nurserymen.

Standards for Tree Care Operations (ANSI A300)

Guideline Specifications to Sodding, America Sod Producers Association (ASPA)

Plant Quantities. All plant quantities shown in the plans are approximate based on the plan locations. The Contractor shall be fully responsible for determining all final plant quantities and shall submit a revised plant schedule with final plant quantities as part of the contract and prior to construction.

Substitutions of Plant Material. If a plant is found to be unavailable, submit proof of non-availability and a proposal for use of equivalent material. When authorized, adjustment of contract amount will be made. No substitutions will otherwise be authorized. To prove non-availability, The Contractor must provide at least eight (8) letters from growers or dealers from the States of Florida and Georgia explaining the non-Availability of the plant material.

On-Site Conditions and Adjustments. The locations of plants, as shown on the plans, are fairly accurate. Planting shall be adjusted only when necessary to accommodate actual as-built conditions on the site and any changes in locations caused thereby shall be made without additional cost to the Owner, Owner's Representative, or Landscape Architect. The Contractor shall immediately notify the Owner's Representative when conditions detrimental to plant growth are encountered, such as rubble fill, lime rock, or obstructions; and when field conditions are different than portrayed on the plans prior to planting. The owner or Owner's Representative may adjust the layout or location of specified plant materials to avoid these areas without additional costs.

Coordination of Plantings. Coordinate all landscape work with the Owner's Representative and other contractors. Plant trees and shrubs after final grades are established and prior to planting of lawns, unless otherwise directed by the Owner's Representative.

Fine Grading. Provide fine grading necessary to establish finish grade in all landscape areas. Fine grading shall include only minor grading to correct random or infrequent grade irregularities of 12" or less, unless otherwise noted on plans.

Liability of Contractor. The Contractor shall be liable for any and all damages to property that result from his performance He shall, without extra cost, restore to original condition any areas and/or construction damaged, defaced, disturbed, or destroyed by him or his workmen.

Tree Tagging. A tree tagging trip may be requested by Owner's Representative prior to approval of plant material. Contractor shall be responsible for providing transportation and accommodations if necessary.

Inferior Materials. Contractor shall reject inferior materials. The Owner's Representative reserves the right to reject any or all materials not meeting the criteria specified herein or determined to be damaged or unhealthy.

Onsite Debris. Contractor shall be responsible for removing and disposing of offsite all stones over 1" in diameter, sticks, roots, and other extraneous matter in planted areas to a depth of 2'. If debris is excessive and results from construction waste please contact Owner's Representative for appropriate actions.

LANDSCAPE PART 2 SUBMITTALS

Soil Testing for Plant Material. The Contractor shall be responsible for testing soils in planted areas to confirm that soil is suitable for healthy plant growth and shall submit a report to the Owner's Representative prior to construction showing test data and any conflicts determined by the contractor.

Seed Certification. All seed must comply with regulatory agencies for fertilizer and herbicide composition.

Inspection Certificates, Manufacturer's Data. Upon request of Representative copies of inspection certificates or manufacturer's data shall be provided for any material used onsite or for existing materials found onsite.

LANDSCAPE PART 3 MATERIALS

General Plant Material Requirements. Provide state inspected, nursery grown plants, and according to the plant schedule unless otherwise specified. Conform to the, "Florida Department of Agriculture Grades and Standards For Nursery Plants", local landscape ordinance, and, where applicable, to ANSI Z60.1 All plant materials shall be Nursery grown, Florida No. 1 stock. All materials shall be healthy, vigorous, free of diseases and insects, pruned for best shape without appearance of "de-horning", and without symptoms of nutritional deficiency. Furnish plants grown under climatic conditions must measure according to sizing required detailed on the drawings. Plants must be naturally bushy, dense, in good foliage, well branched, and of good appearance. The nurseryin/series from which plants are derived shall be under regulatory inspection by the Florida State Department of Agriculture and/or the Florida State Plant Board, or an equivalent agency if derived from outside the State of Florida. Plants entering from outside the State of Florida must bear the entry certificate of the State Department of Agriculture of the State of Florida. All plant materials will be subject to approval of the Owners or Owner's Representative for quality, size and color.

Soil Additives. Contractor shall be responsible for adding peat, humus, fertilizer, manure, pH adjusters or any other commercially accepted soil additive to ensure normal, healthy plant growth or as noted on the plans.

Balled and Bur lapped Trees. Ensure that field grown material follows local industry standards for root pruning, digging, balling and bur lapping, etc. All balled and bur lapped materials must be hardened off before shipment. All materials are subject to approval by the Owner's Representative prior to shipping to project site. The top 5 inches of natural burlap shall be removed and completely remove any synthetic burlap wrapping or wire cages before installation.

Spaded Trees. Trees shall have been spaded from a commercial nursery field that has been inspected by the Department of Agriculture and Consumer Services within the last 9 months. The Contractor shall provide a copy of the most recent Nursery, Stock dealer and Special Inspection Report for verification upon Owner's Representative request. Ball size shall be at least one size greater than recommended by ANSI Z60.1, American Standard for Nursery Stock, unless otherwise specified. Spaded material is subject to approval and tagging by the Owner's Representative prior to shipping to project site.

Container Plants. Provide container-grown plants with sufficient roots to hold the container soil together after removal from the container. Root bound plants and plants with inadequate root systems are not acceptable.

Surface Mulch. Use mulch type specified in plans. Mulch shall be in a non-decomposed state; not more than one (1) season old.

Herbicides, Insecticides. Chemical sprays, dusts, or gaseous compounds used on or around plant materials, including but not limited to trees, shall be approved for such uses by the Environmental Protection Agency and the Florida Department of Agriculture. and Consumer Services. Such materials as may be used shall not constitute a hazard to human health or interfere with site working conditions and habitation.

Seed Requirements General. Where seeding may be required on the plans, the seed required shall comply with all minimum provisions of the Florida Seed Certification and Testing Law. Noxious weed seeds shall be non-existent and foreign materials shall not exceed two percent.

Sod Requirements General. See plan for specified sod. All sod shall be healthy, strongly rooted and not less than two (2) years old, free of weeds and undesirable native grasses in 16" x 24" pads, 1-1/2" thick. Sod shall conform to "Nursery Grown" grade as established by American Sod Producers Association (ASPA). Sod shall be considered free of weeds if less than 5 weeds are found per 100 square feet of area. Brown, dry irregularly smooth, and/or unfresh sod will be rejected.

LANDSCAPE PART 4 PLANTING PROCEDURES

General. Prior to commencement of any work, the Landscape Contractor shall inspect the site, locate planting areas, placement of guying devices, locate electrical cables, conduits, and other underground and above utilities so that proper precautions and procedures may be followed during and throughout construction. The Contractor shall become familiar with other job trade activity which has an impact upon his work or upon which his work has an impact and shall arrange to carefully coordinate his work with other trades through the Owner's Representative. All planting practices listed herein shall ensure healthy plant growth.

Layout. The location of plants, planting beds and plant quantities, are approximate. The locations and bed lines shall be staked on the project site by the Contractor and approved by the Owner's Representative before any plant pits or beds are dug. The Owner's Representative may adjust plant material locations to meet field conditions. Contractor shall make minor adjustment without additional cost to the Owner.

Finish Grades. The Landscape Contractor is responsible for all fine grading and preparation for planting. Finish grades (top of soil) for all sod areas after settlement shall be one-half inch below the top of abutting curbs, walks, walls and abutments. The finish grade of all plant beds prior to mulching shall be three inches below finish grade of sod, abutting curbs, walks and walls. Three inches of mulch shall be added to all plant beds after planting.

Planting Seasons/Times. The planting of plant materials and lawns may proceed at any time, period, or season agreed upon by the Contractor and Owner or Owner's Representative

Plant Installation. All plants existing rooball top shall be 0-1" above finished grade. Area surrounding tree shall excavated/loosened to 3X the width and 1X depth prior to installation. Plants shall be set plumb and straight. When backfilling lightly tamp layers in 6" lifts. Do not over compact. A ¼" probe should be able to penetrate to a depth of the rootball with hand pressure. A 3" mulch layer shall be applied over rootball excluding the area 6" from the trunk/stem. Stake and install trees according to details. Trees shall be secured loosely and allow trunk to sway. Sod. All areas to be either seeded, sprigged, or sodded shall be prepared in a manner to ensure normal, vigorous and healthy growth.

Fine grade lawn areas to smooth, even surface with with lose, uniformly fine texture. Roll, rake and drag lawn areas, remove ridges and fill depressions with topsoil as required to meet finish grades. In areas to be sodded, allow for sod thickness.

Sod Installation. Lay sod in straight, parallel rows to form a solid mass with tightly fitted joints, without overlap. Stagger strips to offset joints. Work topsoil into minor cracks. On 1:3 slopes or greater, lay sod with long dimension of pads parallel to contours and stake sod as necessary to stabilize. Drive sod stakes flush with top of sod.

Sprigging and Seeding. Sprigging/seeding shall be done in a manner to ensure a quick grow-in period achieving a uniform green lawn prior to final acceptance.

LANDSCAPE PART 5 MAINTENANCE

Plant Material. Maintain all plant materials until Final Acceptance. Maintenance shall include all required watering, cultivation, weeding, mowing, pruning, wound dressing, immediate replacement of dead and unacceptable material, straightening plants which lean or sag, adjustment of plants which are planted too low, and any other procedure consistent with good horticultural practice necessary to ensure normal, vigorous and healthy growth of all planting under the Contract.

Lawn. Maintain lawns until Final Acceptance. Reset settled or eroded sod areas to proper grade. Fill open joints with topsoil. Keep sod free of insects and disease.

LANDSCAPE PART 6 FINAL INSPECTION AND ACCEPTANCE

Final Cleanup. Upon final completion of work and before inspection and acceptance, all aspects of the project site shall be thoroughly and completely cleaned of debris, stains, materials, defacements, and temporary facilities. Likewise, any repairs which are the obligation of this Contractor shall be completed.

Initial Inspection and Acceptance. Inspection shall be made by the Owner or Owner's Representative within (10) ten days of written notification from the Contractor that installation is complete. If all work and materials meet specifications, project will be accepted as is. Materials and work not in compliance with specifications shall be rejected by Owner's Representative and replaced by the contractor within (15) fifteen days of notification by Owner's Representative. Notification will graphically depict all rejected material on plans. Upon replacement of all rejected work and materials by the Contractor, the Owner's Representative shall conduct a final inspection within ten (10) days of written notification from the Contractor that all rejected work has been replaced according to specifications. Approval will be granted upon the acceptance of all replaced material noted on plans. After final acceptance, the Contractor will not be responsible for damage to work resulting from: neglect by Owner, conditions such as floods, excessive wind, severe freezing or abnormal rains; or other activities clearly beyond the Landscape Contractor's control.

LANDSCAPE PART 7 GUARANTEE

Guarantee. All plant materials and trees installed by the Contractor shall be guaranteed for 365 days from the date of final acceptance. The Contractor shall replace at no additional cost to the Owner, all plant materials which die and/or which are not healthy and in a good growing condition during the guarantee period. Replacement of such material shall occur within ten (10) days from Owner's written notification to the Contractor. The 365-day guarantee period for replaced plant materials shall commence on the date of acceptance of the replaced item or items of plant material. The Contractor shall not be required to replace, repair, or restore any portion of the work that is damaged, defaced, disturbed, improperly maintained, and/or destroyed by others after final acceptance.

IRRIGATION PART 1 GENERAL NOTES

Scope. This section includes irrigation and supplementary work shown on the drawings and specified herein, complete.

Applicable Documents. The following publications, specifications, and standards of the issues listed in this paragraph (including the amendments and addenda designated), but referred to hereinafter by basic designation only, form a part of this specification to the extent required by the references thereto.

Publication of Reference. Publications as herein listed shall be held in basic reference:

- HANDBOOK OF TECHNICAL IRRIGATION INFORMATION by Hunter Industries Inc. - 1996
- THE COMPLETE IRRIGATION WORKBOOK by Larry Keesen - 1995
- PUBLICATIONS, NOTES, AND PAPERS by The Center of Irrigation Technology, California State University - Fresno, California
- PUBLICATIONS and STANDARDS by The Florida Irrigation Society - Orlando, Florida
- PUBLICATIONS by The Irrigation Association - Falls Church, Virginia INSTALLATION GUIDE FOR PVC

Irrigation Quantities. All irrigation material quantities shown in the plans are approximate. The Contractor shall be fully responsible for determining all quantities. The Contractor shall submit a revised irrigation schedule with final irrigation quantities as part of the contract and prior to construction.

On-Site Conditions and Adjustments. Irrigation equipment shown on the plans is approximate. Irrigation shall be adjusted to fit actual as-built conditions on the site and any changes in locations caused thereby shall be made without additional cost to the Owner, Owner's Representative, or Landscape Architect.

Liability of Contractor. The Contractor shall be liable for any and all damages to property that result from his performance He shall, without extra cost and by licensed contractors, restore to original condition any areas and/or construction damaged, defaced, disturbed, or destroyed by him or his workmen.

Substitution of Materials. Any substitution from the specified brands, models or sizes shall be submitted to the owner or the owner's representative for approval. Material substitutions or design changes must be shown to comply with the system design intent and rectify any necessary performance changes and be in compliance with all city, state, and federal regulations.

IRRIGATION PART 2 INSTALLATION PROCEDURES

General. Prior to commencement of any work the Irrigation Contractor shall obtain all necessary permits and licenses, inspect the site and locate electrical cables, conduits, and other underground and above utilities so that proper precautions and procedures may be followed during and throughout construction. The Contractor shall become familiar with other job trade activity which has an impact upon his work or upon which his work has an impact and shall arrange to carefully coordinate his work with other trades through the Owner's Representative.

Backflow Prevention. Backflow preventer shall be installed according to manufacturer's recommendations.

Filters and Strainers. Filter/Strainers shall be installed per manufacturer's recommendations.

Irrigation Controller. The irrigation controller shall be UL listed, conform to the provisions of the National Electric Code, and properly grounded in accordance with manufacturer's recommendations.

Rainfall Shutoff Device. A rain sensor shall be installed as close as possible to the control equipment and per manufacturer's recommendations. Install the first 18 inches of rain sensor wire below ground level and all wire above ground in conduit. When systems are pressurized by a pump, provision shall be made to ensure shutoff device does not allow pump to activate.

Pipe.

1. Pipe shall be installed at sufficient depth below ground to protect it from hazards such as vehicular traffic. Landscape vehicular traffic areas are those landscaped areas subject to vehicular use such as traffic crossings, parking areas, etc. Depths of cover shall conform to NRCS-FL- 430-DD, Water Conveyance, as follows:
   a. Landscaped Vehicle Traffic Areas - Landscaped areas subject to routine automotive or heavy equipment traffic.

Pipe Size (Inches)	Depth of Cover* (inches)
1/2" - 2-1/2"	18"
3"-5"	24"
6" and larger	36"

   b. Non-Traffic and Non-Cultivated Areas

Pipe Size (Inches)	Depth of Cover* (inches)
1/2" - 1-1/2"	6"
2"-3"	12"
4"-6"	18"
More than 6"	24"

2. The trench bottom must be uniform, free of debris, and of sufficient width to properly place pipe and support it over its entire length. Make all pipe joints and connections according to the material manufacturer's recommendations. Perform all solvent-weld connections in accordance with ASTM D-2855. Contractor shall install all piping and related materials in accordance with the manufacturer's specifications and the following standards: ASTM D-1785-99, ASTM D-2241-00, ASTM D-2464-01, ASTM D-2464-99, ASTM D-2239-99, ASTM D-2564-96a, ASTM F-656-96a, ASAE S435.
3. Thrust blocks are required on all fittings at dead ends and whenever the line changes direction of 30 degrees or more. Thrust blocks shall be installed in a manner to ensure no pipe shifting occurs. Size thrust blocks in accordance with ASAE Standard S-376.2.
4. Contractor shall flush irrigation system installation at the appropriate stages based on commercially accepted methods.
5. After installation, flushing, and inspection or testing, contractor shall backfill the pipe trench with soil free from rocks or stones larger than 1-inch in diameter in a commercially accepted manner.

Pipe Sleeving. Pipe sleeves shall be at least two pipe sizes larger than the carrier pipe or twice the diameter of the wire bundle to be placed under the paving or roadway, and extending a distance at least equal to its installed depth beyond the paved area. Schedule 40 PVC pipe shall be used for sleeves.

Valves. Valve installation shall allow enough clearance for proper operation and maintenance. Where valves are installed underground, they shall be provided with a valve box with cover extending from grade to the body of the valve. The top of the valve body should have a minimum of 6 inches of cover in non-traffic and non-cultivated areas and 18 inches of cover in traffic areas.

Locate manually operated control valves so they can be operated without wetting the operator.

Valve Boxes. Contractor shall install valve boxes according to the manufacturer's recommendations.

Wire. Electrical control wire shall be sized in accordance with the valve manufacturer's specifications. Install only UL listed direct burial low voltage wire (30 volts or less) with a minimum depth of cover of 12 inches. Provide a sufficient length of wire at each connection to allow for thermal expansion/shrinkage. As a minimum, provide a 12-inch diameter loop at all splices and connections. Terminations at valves will have 24" minimum free wire. Provide common wires with a different color than the power wires (white shall be used for common wires). Use wire connectors that are approved for direct burial. A valve box shall be used for all underground wire splices. Install all above-ground wire runs and wire entries into buildings in conduit.

Sprinklers. Install sprinklers plumb unless they are installed on slopes where they can be tilted as required to prevent erosion. Sprinklers shall be adjusted to avoid unnecessary discharge on pavements and structures. Provide a minimum separation of 4 inches between sprinklers and pavement and 12 inches between sprinklers and vertical structures or as local codes dictate. Riser-mounted sprinklers shall be supported. Swing joints shall be constructed to provide a flexible, leak-free connection between the sprinkler and lateral pipeline to allow movement in any direction and to prevent equipment damage.

Micro Irrigation. Micro-irrigation equipment shall be installed according to the manufacturer's recommendations for the specific application. Stake all surface tubing every three to six feet depending on site conditions and manufacturer's recommendations with eight inch staples.

IRRIGATION PART 3 TESTING, SUBMITTALS, FINAL INSPECTION AND ACCEPTANCE

Testing. All mainlines and laterals shall be tested to be free of leaks. Rainfall shutoff device shall be tested to ensure proper shut-off of control equipment.

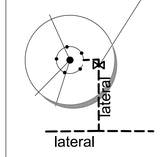
Cleanup. Upon final completion of work and before inspection and acceptance, all aspects of the project site shall be thoroughly and completely cleaned of debris, stains, materials, defacements, and temporary facilities. Likewise, any repairs which are the obligation of this Contractor shall be completed.

Inspections and Acceptance. Inspection shall be made by the Owner or Owner's Representative within (10) ten days of written notification from the Contractor that installation is complete. If all work and materials meet specifications, project will be accepted as is. Materials and work not in compliance with specifications shall be rejected by Owner's Representative and replaced by the contractor within (15) fifteen days of notification by Owner's Representative. Notification will graphically depict all rejected material on plans. Upon replacement of all rejected work and materials by the Contractor, the Owner's Representative shall conduct a final inspection within ten (10) days of written notification from the Contractor that all rejected work has been replaced according to specifications. Approval will be granted upon the acceptance of all replaced material noted on plans.

Post Construction Documentation & Instruction. The Contractor shall provide manufacturer's product literature, operation manuals, testing and inspection certificates, and record drawings to the owner or owner's representative. Record drawings shall show all changes in the design to indicate the actual installation sizes, types, and locations of all equipment and materials with the application for final payment. Contractor shall provide minimal instruction to owner, if applicable, describing any need to know information regarding the daily operation of the system.

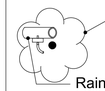
IRRIGATION PART 4 GUARANTEES

The irrigation system contractor shall assume full responsibility for the proper installation of the system. Contractor shall guarantee the installation workmanship for a minimum period of one (1) year from date of final acceptance. The irrigation system contractor shall make all necessary, reasonable efforts to handle any warranty claims within the guarantee period in a reasonable time period. The Contractor shall not be required to replace, repair, or restore any portion of the work without additional service fees that are damaged, defaced, disturbed, and/or destroyed by others after final acceptance. Repairs made by other licensed contractors during the guarantee period shall not void the guarantee.



Install Rainbird BVAL50-1S139 or equal shut-off valve at all trees. Install Rainbird or equal XFD blank tubing around each tree with appropriate amount of equally spaced drip emitters. Quantity of Rainbird XB-#PC or equal emitters per tree are specified on the irrigation sheet. Drip shall encircle tree and be offset 2" from edge of rootball. Terminate drip encircling each tree with a compression hose end cap.

Detail for individual tree drip
Not To Scale

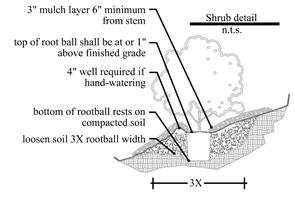


shrub

Rainbird or equal XFD blank tubing with Rainbird XB-#PC or equal emitter at same precipitation rate installed overtop of rootball or attach 1/4" tubing to emitter with bug cap to reach plant rootball off of 1/2" tubing when applicable. Use ground staples to secure emitter locations. Start all drip runs with a Rainbird BVAL50-1S139 shut-off valve. Terminate all drip runs with a compression hose end flush cap.

Detail for shrub emitters
Not To Scale

Use ground staples to secure emitter locations. Pressure regulators shall be used in appropriate locations so all emitters receive pressures between 20-50 psi.



Shrub detail
n.t.s.

BORTON DESIGN INC.
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LANDSCAPE PLAN
Specifications/Details

COMMERCIAL RETAIL STORE - LAKE CITY SR 247
PREPARED FOR
CONCEPT DEVELOPMENT, LLC.

BDI NO. 21126 REVISIONS:
DRAWN BY: BDB
DESIGNED BY: BDB
CHECKED BY: BDB
DATE: 02/11/2021

PLANS PREPARED BY
BRIAN DAVID BORTON FL. NO. LA6667028

LS-04