SPRINGS ACADEMY PARKING LOT

FOR

SPRINGS CHAPEL CORPORATION

1106 NORTH ORANGE AVENUE, GREEN COVE SPRINGS, FL 32043

PROJECT OWNER AND CONSULTANTS

OWNER: **Springs Chapel Corporation**

Dr. Christian Pope 1106 N. Orange Avenue Green Cove Springs, FL 32043

TEL: 904-531-9669

SURVEYOR: Compass Surveying

> 6250 N. Military Trail, Suite 102 West Palm Beach, FL 33407 TEL: (561) 640-4800

ENGINEER:

Tocoi Engineering, LLC Charles Sohm, P.E. 714 North Orange Avenue Green Cove Springs, FL 32043 TEL: 904-215-1388

TE JOB NO: 24-671







LOCATION MAP



714 NORTH ORANGE AVENUE, GREEN COVE SPRINGS, FL 32043 E.B. NUMBER: 26383 PH: 904-215-1388 "TURNING YOUR IDEAS INTO REALITY" www.tocoi.com

PRELIMINARY PLANS

January 16, 2025

CLAY COUNTY



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CHARLES SOHM, P.E. FLA. REGISTERED ENGINEER, #79289

Clay County General Notes (Commercial) - Revised 10/15/19

- 1.Clay County Engineering Division requires twenty—four hours (24—hr) notice on all meetings and or testing procedures.
- 2.Construction warning signs are to be post mounted and erected before construction can commence. These and all traffic control devices shall follow the standards set forth by the Manual of Uniform Traffic Control Devices (MUTCD) and the Florida Department of Transportation Standard Specifications and Details.
- 3.All construction projects 1 acre or more in size shall be required to abide by the provisions of the National Pollutant Discharge Elimination (NPDES) permit. The owner or contractor is responsible for preparing the Stormwater Pollution Prevention Plan (SWPPP) and submitting the NPDES "Notice of Intent" (NOI) and "Notice of Termination" (NOT) to the EPA or local state agency having jurisdiction over the NPDES program. The contactor shall keep onsite copies of the SWPPP, NOI, and water management district permits.
- 4.It is the responsibility of the contractor to recognize and abide by all OSHA safety standards.
- 5.All disturbed Clay County Rights—of—Way shall be sodded to the discretion and approval of the Clay County Engineering Division.
- 6.The contractor shall verify all utility locations prior to excavation and take all measures necessary to protect utilities during construction. Should any utility line or component become damaged or require relocation the contractor shall immediately notify the responsible utility company, the engineer, and the county.

CALL BEFORE YOU DIG 1-800-432-4770

& 904-269-6359

- Call 800-432-4770 two full business days before digging. Call 10 days before digging when digging under water.
- Call 904-269-6359 (Clay County Signal & Maintenance Division) two full business days before diagring
- Wait the required time for buried utilities to be located and marked.
- Protect the marks during your project. If marks are destroyed, call again.
- Dig safely, using extreme caution when digging within 24 inches on either side of the marks to avoid hitting the buried utility lines.
- 7.Before working in existing county rights—of—way, the contractor shall be required to obtain a right—of—way permit. The permit can be obtained at the Clay County Engineering Division, 477 Houston Street, 3rd/ Floor, Green Cove Springs, Florida.
- 8.All swale sections and ponds are to be sodded within 15 days of their final grading.
- 9.Any offsite swales or ditches impacted by the development, the contactor shall re-grade and restore, to obtain positive drainage.
- 10. A copy of the contractors' general license and the under ground utility license shall be provided at the time of the pre-construction conference.
- 11. Any applicable Saint Johns River Water Management District (SJRWMD), FDEP (Generic Permit for Stormwater Discharge from Large and Small Construction Activities, Army Corp of Engineers, and a Florida Department of Transportation (FDOT) permits shall be provided to the county by the pre—construction conference. No work shall begin without all applicable permits on file.
- 12. The contractor must obtain approval from the Saint Johns River Water Management District (SJRWMD) before the county will accept the project.
- 13. All storm pipes shall be videoed prior to a final inspection and all data shall be recorded in High quality DVD format with sound or any equipment approved by the Engineering Division (Ref. FDOT SSRBC latest edition).
- 14. There shall be a minimum five (5) days notice given for scheduling the final inspection.
- 15. At the final inspection a letter of compliance will need to be filled out and signed by the State of Florida Registered Professional Engineer of record for the project. The letter shall state that the project has been built in accordance of the approved design plans and other agency permits.
- 16. All soil and debris tracked out of the project shall be cleaned in accordance with the approved SWPPP or at the discretion of the Clay County Engineering Division.
- 17. Prior to any inspection or testing, all pipe line, structures, roadway, etc. shall be cleaned.

Erosion Control

18. Pursuant to Comprehensive Plan Policy 9:1 of the conservation element, the use of one or more erosion control measures, as requested by the Clay County Engineering Division, shall be used during construction. These will be, but not limited to, items such as temporary grass cover, sediment basins or ponds, mulching, temporary fences, diversion channels, and hay bales.

- 19. Pursuant to Comprehensive Plan Policy 9:1 of the conservation element, scheduling of construction shall be given special consideration to minimize exposure of bare soil. The contractor will formulate a construction schedule to be given to the county representative.
- 20. The governing publications for erosion control are current FDOT Roadway and Traffic Design Standards and the NPDES Stormwater and Erosion Control Manual latest edition.
- 21. The contractor shall check each day to insure that all erosion control devices are in place and working properly.
- 22. All erosion control measures shall be in compliance with the rules, regulations and standards of the Saint Johns River Water Management District, The Florida Department of Environmental Protection, and The United States Army Corp of Engineers and Clay County Regulations and Ordinances.
- 23. The contractor shall take whatever means necessary to prevent the erosion of soil and deposition of sediment on adjacent and downstream properties.
- 24. All erosion control measures shall be installed prior to commencement of construction. Sediment control consists of silt fencing, hay bales, and floating turbidity barriers per FDOT Erosion and Sediment Control Manual. Erosion control consists of seeding and mulching, sodding, wetting surfaces, placement of coarse aggregate, temporary paving.
- 25. The contactor shall respond to erosion and sediment control maintenance with 24—hours of being informed by Clay County, unless the situation requires an immediate response. The contractor will then respond immediately after notification by the county. The contactors erosion control inspector shall be a qualified stormwater management inspector by the Florida Department of Environmental Protection.
- 26. The contractor shall be required to incorporate permanent erosion control measures at the earliest practical time so as to minimize the need for temporary controls.
- 27. The erosion and sediment control measures shown on the plans are minimum requirements. The contractor shall be responsible for additional erosion control measures as determined by the county or the contractor to insure quality control.
- 28. All disturbed areas shall be grassed within 7 days of the initial disturbance. Types of grassing shall be as follows: Sodding is required for around all drainage structures, retention/detention areas, swales, ditches, and where 4:1 slopes are exceeded. Seed and mulch may be used at all other locations unless specifically called out for on these drawings. There shall be a standing row of grass at the time of final acceptance. If seed and mulch has been used and has not taken to, sod will be required for established grass.
- 29. The contractor shall inspect and report erosion and sediment control methods every week and after ½ inch of rain during construction. The contractor shall remove any sediment build up, repair or reinstall any control measures.
- 30. The county requires background testing of local waterways and additional periodic testing during construction for water quality and conformity with Clay County Standards.

Drainage Structures & Pipe Installation

- 31. The governing publications for pipe are the current FDOT Roadway and Traffic Design Standards and the current FDOT STD. Spec. for Roadway & Bridge Const.
- 32. The governing publications for Inlets, Junction Boxes and Manholes are the current FDOT Roadway and Traffic Design Standards, Index 425.
- 33. All joints of pipe regardless of material type shall be wrapped with fabric filter cloth per Florida Department of Transportation, type D-3, A.O.S. 70-100. The fabric shall be installed in accordance with FDOT. The contractor will provide a minimum 12" overlap in the fabric.
- 34. All storm sewer pipes are to be steel reinforced concrete pipe (SRCP) unless otherwise noted on these drawings. Round concrete pipe shall comply with ASTM C76. Elliptical pipe shall comply with ASTM C507. Pipe joints and 0 ring gaskets shall comply with ASTM C443.
- 35. All storm sewer pipes shall be subjected to leakage testing and shall be videoed/ ${\sf TV}$ prior to the final inspection.
- 36. All storm sewer pipes shall be cut flush with the interior wall of any type manhole or curb and ditch bottom inlets.
- 37. If the approved design requires the inlet or storm run be surcharged, all inlets shall be inspected before being exposed to the system.
- 38. Mitered End Sections shall meet the requirements under the current FDOT Roadway and Traffic Design Standards, Index 430.
- 39. No manhole shall be placed within 2.5' of the curb.
- 40. No brick adjustment shall be allowed for manholes underneath the pavement.
- 41. The maximum threshold for manhole adjustment underneath the roadway shall be between 0" to 4".

42. Final Pipe Inspection in the Right-of-Way or County's easement: After the final pavement operation, the contractor shall dewater and video the pipe/culvert; the County will only review the video Data post asphalt construction supplied by the contractor/developer, and the tests and DVD must meet the latest edition of the FDOT Standard Specifications for Road and Bridge Construction.

Signage & Pavement Markings

- 43. All signs and pavement markings shall be in accordance with the "Manuel of Uniform Traffic Control Devices" and the latest implemented addition of the FDOT Roadway and Traffic Design Standards Index numbers 700 & 706 and the current FDOT STD. Spec. for Roadway & Bridge Const, Index 630.
- 44. All final pavement markings within the rights-of-way shall be thermoplastic.
- 45. All signs shall be on a ten-foot (10') pole a minimum seven feet (7') from the ground.
- 46. Street signs shall be mounted with tee caps.
- 47. Street signs shall be a six inches (6") wide with green backings and white letters and bordering.
- 48. Stop signs shall meet the minimum size requirements of the MUTCD.
- 49. Stop signs are to be placed four feet (4') from back of curb, four feet (4') behind cross walks and on the right hand side of the road.
- 50. All regulatory signs shall be black and white. All construction warning signs shall be orange and black. All warning signs shall be yellow and black. All no parking and stop signs shall be red and white.
- 51. Stop bars shall be twenty—four inches (24") wide and lane width. All stop bars shall be thermoplastic.
- 52. All signs must meet Florida Department of Transportation (FDOT) standards for engineering grade sign faces in reflectivity.
- 53. For county maintained roads, street signs shall be colored with a green background and white lettering. For private roads, the sign shall be a white background with green lettering.
- 54. All pavement markings require layout approval by Clay County.

<u>Sidewalks</u>

- 55. The governing publications for sidewalk are the current FDOT Roadway and Traffic Design Standards, Index 522.
- 56. Sidewalks are a minimum of 5' in width for a local road and 6' in width for a residential collector. All other roadway classifications shall refer to the details herein. In no case shall the sidewalk be less than 5' without written approval from the Engineering Division.
- 57. All sidewalks that are not in front of a build able lot, shall be installed prior to the final inspection
- 58. Pedestrian crossing/handicap ramps shall be installed wherever the sidewalk meets the curb. The ramps shall be in accordance with Florida Department of Transportation standard index number 522. All ADA ramps shall be installed prior to final acceptance unless otherwise approved by the Engineering Division.
- 59. Whether depicted on the plans or not, a sidewalk is to be installed at the subdivision entrance running parallel to the right of way for the extent of the property.
- 60. Sidewalks are to be placed, at a minimum, 3' from the property line or as otherwise approved by the Engineering Division.

Maintenance of Traffic

- 61. The governing publications for maintenance of traffic are the current FDOT Roadway and Traffic Design Standards, Index 102 and the current FDOT STD. Spec. for Roadway & Bridge Const., Section 102, and the latest edition of the MUTCD.
- 62. When FDOT Standard Indexes do not apply and hauling is necessary for the construction of the site, additional MOT maybe necessary. Installation of "Trucks Entering and Leaving Highway" signs shall be installed and maintained throughout the limits of the construction schedule.

Engineering, ည်က L01 PARKING CORP. GENERAL ACADEMY PAI FOR INGS CHAPEL (SPRINGS 占

REVISIONS

DRAWN BY: DESIGNED BY: CHECKED BY:

SHEET NO.

2A

AS-BUILT REQUIREMENTS PAVING AND DRAINAGE

<u>General</u>

- Submit one signed and sealed paper copy (24"x36") of the as-builts overlaid on the approved plans. Submit a CAD file compatible with AutoCad 2017 and a pdf that exactly matches the paper copy.
- All as-builts must use the NAVD 1988 vertical datum and the State Plane Coordinate NAD 83 horizontal datum.
- 3. As-built must contain at least the following:
- a. Project name
- b. Project/Development number
- c. Street names
- d. Physical address (commercial sites)
- e. North arrow
- f.Scale g. 4 boundary corners
- h. The word "as-built" must be in at least one inch high letters.
- i.Reference all benchmarks by station and offset
- i.Minimum of 2 benchmarks for every 1000' feet of road

<u>Pavina</u>

- 4. As-builts should include elevation, station, and offset at the following every 100':
- a. Centerline or profile grade line
- b. Top of curb
- c. Gutter or edge of pavement (specify width)
- d. Back of sidewalks (minimum ever 100')
- 5. As-builts should include elevation, station, and offset at each:
- a. PC, and PT
- b. Low and high points
- c. Centerline intersections
- d. Beginning and end valley gutter
- e. Begin and end super elevation transition
- f.Gutter line (Cul-De-Sac every 25')

<u>Drainage</u>

- 6. Location of all drainage structures by station and offset, including
- a. Structure throat top and/or grate elevation (specify which)
- b. Weir and slot elevations and orifice sizes
- c. Pipe invert elevation and flow direction. Including underdrain.
- 7. Size, lengths and types of drainage pipes to include underdrain.
- 8. Cross sections through all swale and ditches. Minimum of every 25'. Must include elevation and locations of centerline, toe of slope, and top of bank.
- 9. Pond details to include:
- a. Elevations located top of bank a minimum of every 100'
- b. Dated elevation of pond water level at time of the as-built
- c. Elevations along bottom of the pond, two shots per acre minimum
- 10. Show all drainage easements to include water flow direction

<u>Signage</u>

11. Location of all street signs by station and offset

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12. Lot elevations need to be included for each individual parcel. This must be at every elevation shown on the approved plans.

<u>Letter of Certification</u>

13. The as—built needs to be reviewed by the EOR and their approval must be included in the Engineers Certification letter and submitted with the close—out package.

SE-24-002 Special Exception for Springs Chapel

The City of Green Cove Springs recognizes a modification for special exception by Springs Chapel for the Springs Academy on the property located at 1106 N Orange Avenue/Parcel #017553-000-00 on May 6, 2024.

The special exception was approved by the Planning and Zoning Commission on June 25, 2024 subject to the following conditions and submittal timelines:

Conditions-

- 1. Define the maximum number of students to no more than 156 students.
- 2. Addition of or modification to any existing structure/facility on the site as of the approval of this modification, will require a modification to the Special Exception.
- 3. Provide parking calculations along with site plans.
- Provide a tree survey showing the location of existing trees, comply with the tree preservation requirements set forth in Sec. 113−274~279.
- 5. Secure permits from FDOT for state road access/driveway.
- 6. Ingress and egress are prohibited on St. Johns Avenue. Provide a gate on the St. Johns Avenue driveway, to be closed during school hours.
- A 6' high wall and trees (1 per 25 feet) to be provided along St. Johns Avenue as part of the required landscape buffer per Sec. 113-243.
- 8. Gate at access to St. Johns Avenue must be closed and secured during drop-off hours, school hours and pick-up hours.
 9. Provide vehicle stacking to scale, each vehicle should be 10' in width and 20' in length. A
- minimum of 200' of stacking shall be provided.

 10. Grove Street must be closed prior to the start of the school year, which is August 13, 2024,
- subject to City Council approval.

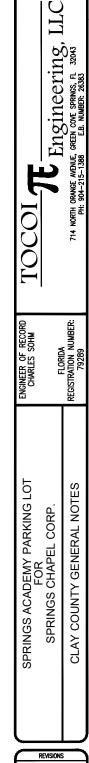
 11. Provide a temporary stacking plan for school drop off and pickup with no access from St.
- Johns Avenue.

 12 Special Exception shall be limited to Springs Chapel Corp. Any change in ownership shall
- 12. Special Exception shall be limited to Springs Chapel Corp. Any change in ownership shall require modification to the Special Exception.13. Upon approval, failure to comply will result in pulling of the current and past Special
- 13. Upon approval, failure to comply will result in pulling of the current and past Specia Exceptions.

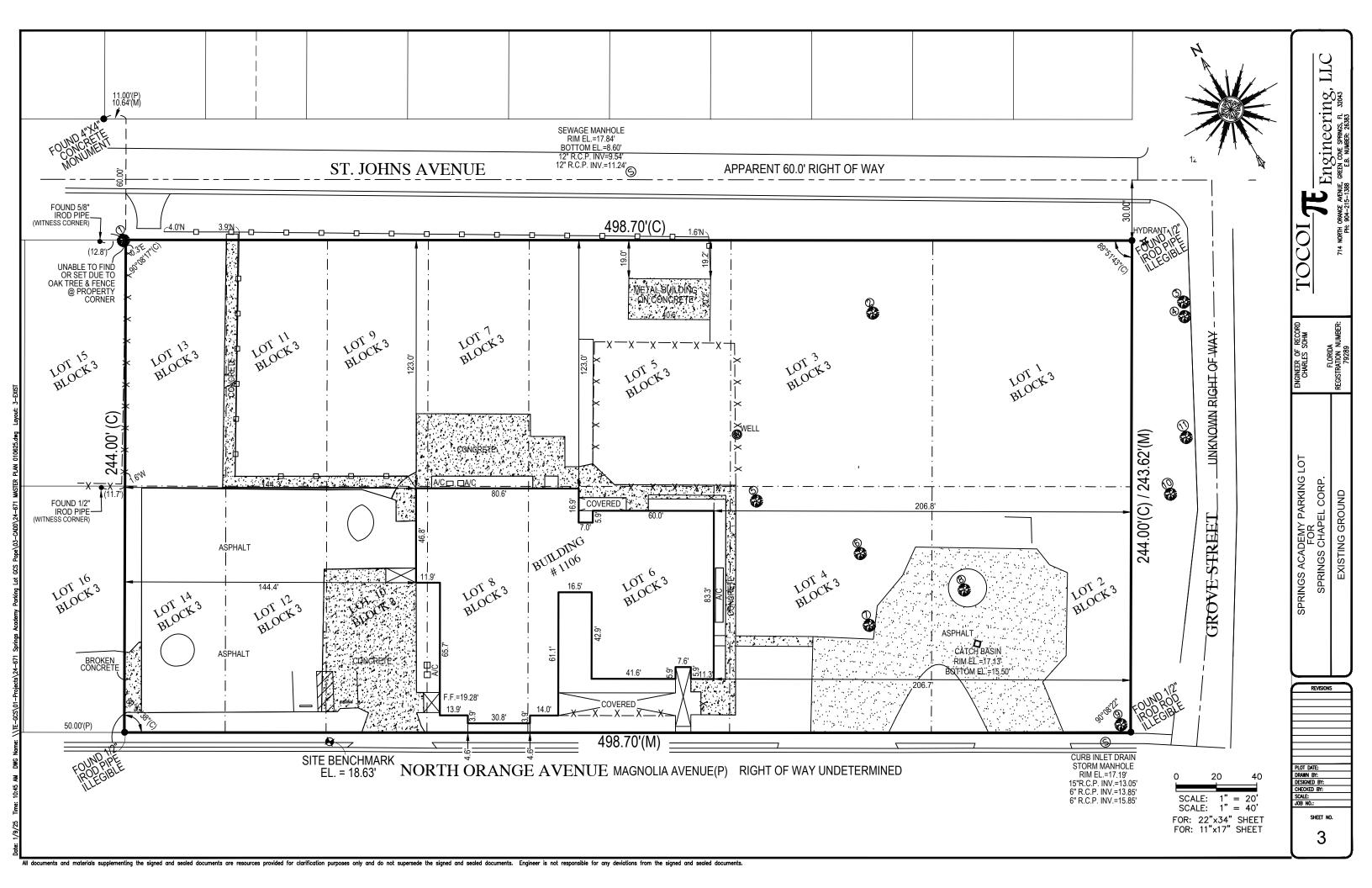
Submittal timeframes-

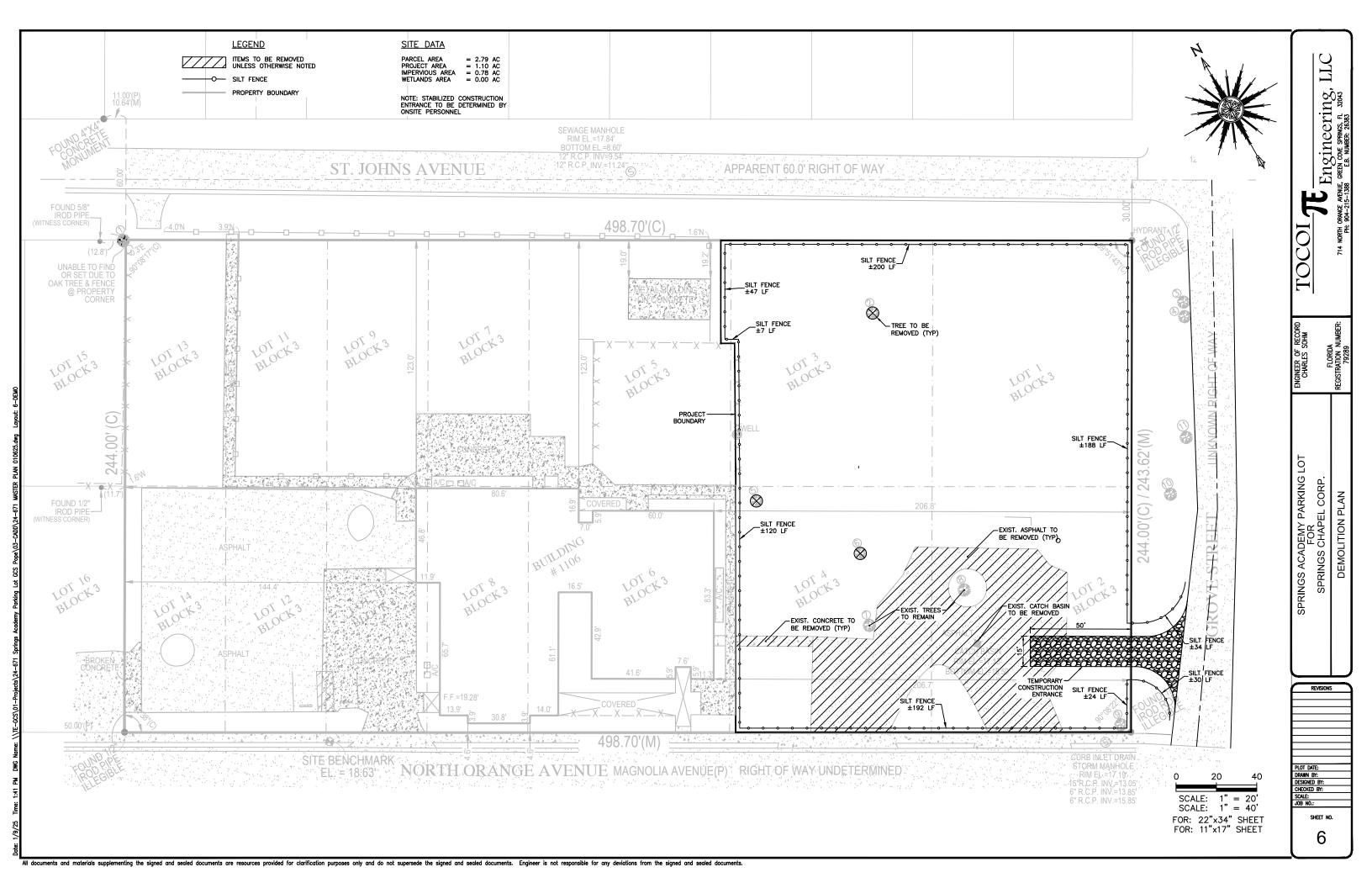
- Secure a Site Development Plan approval subject to the special exception requirements within 120 days; and
- Completion of construction of the improvements set forth in the approved Site Development Plan and conditions within the Special Exception within 6 months subsequent to Site Plan approval; and
- 3. Not meeting these timeframes shall be considered a violation of the approved Special Exception and shall be grounds for the special exception to be returned to the Planning and Zoning Commission for revocation of the Special Exception; and
- Any other violations of the Special Exception and Site Development Plan shall follow the Code Enforcement procedure set forth in Chapter 22 of the Green Cove Springs City Code.

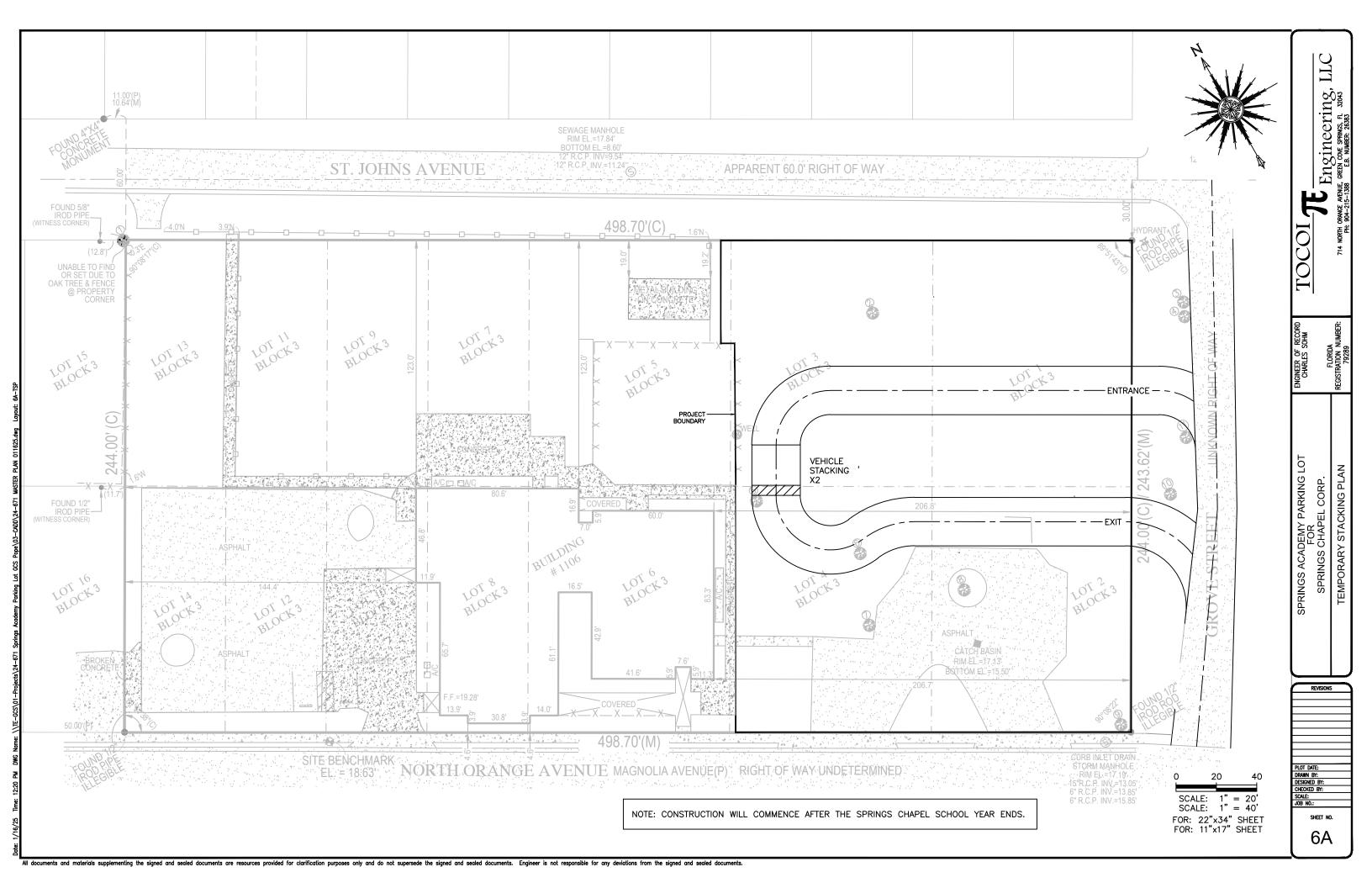
Please contact me directly at mdaniels@greencovesprings.com if you have any questions.

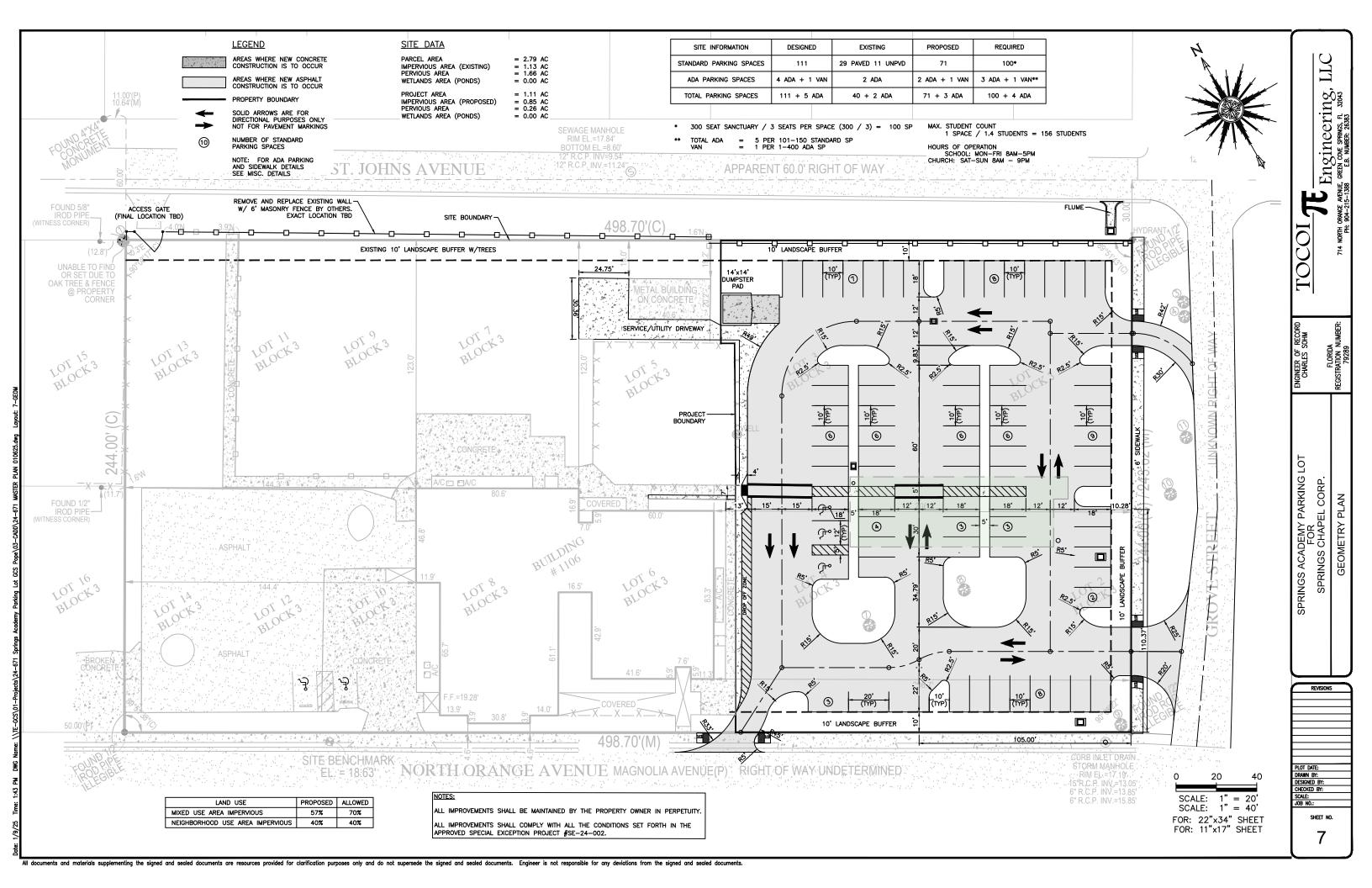


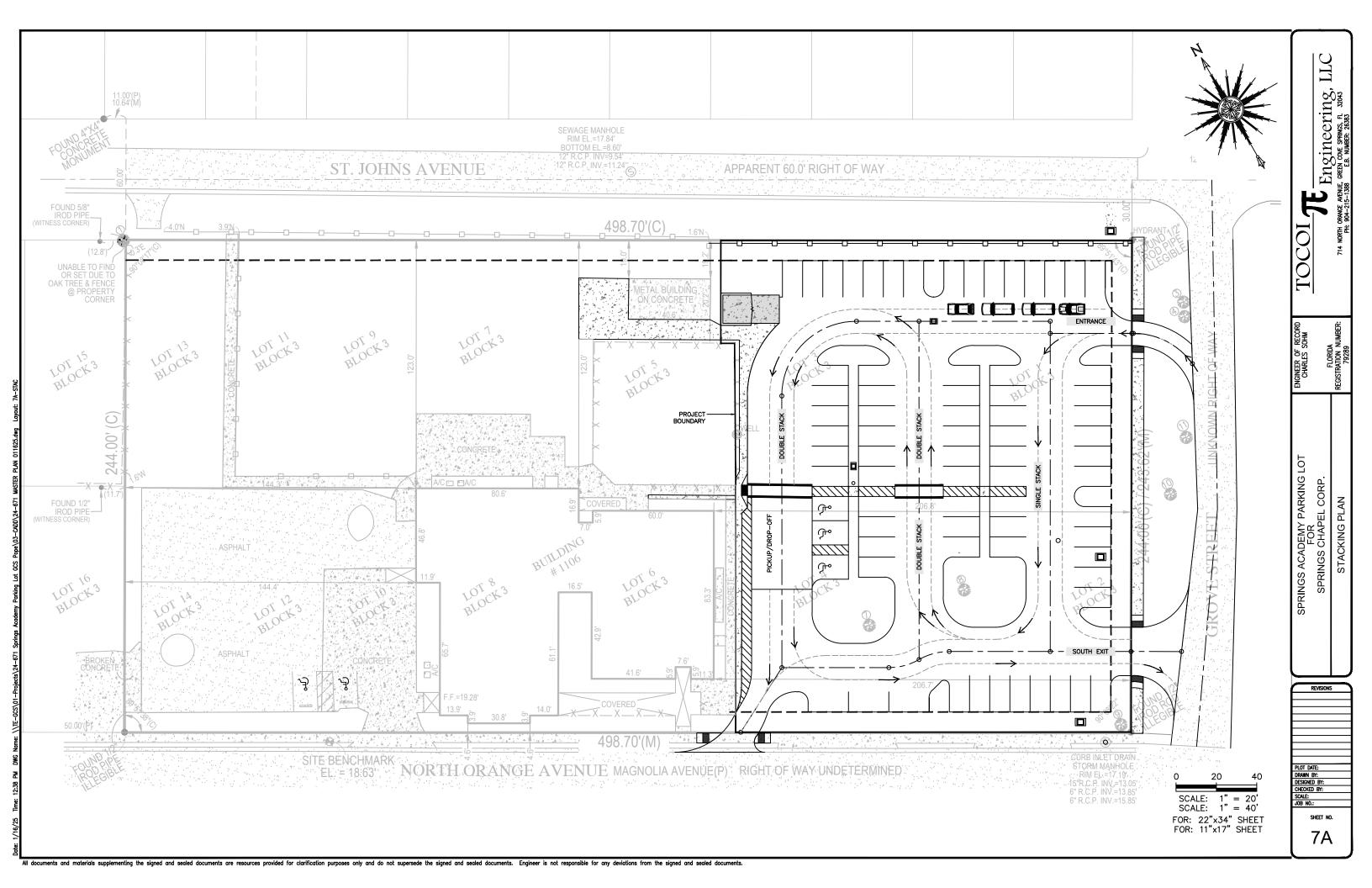
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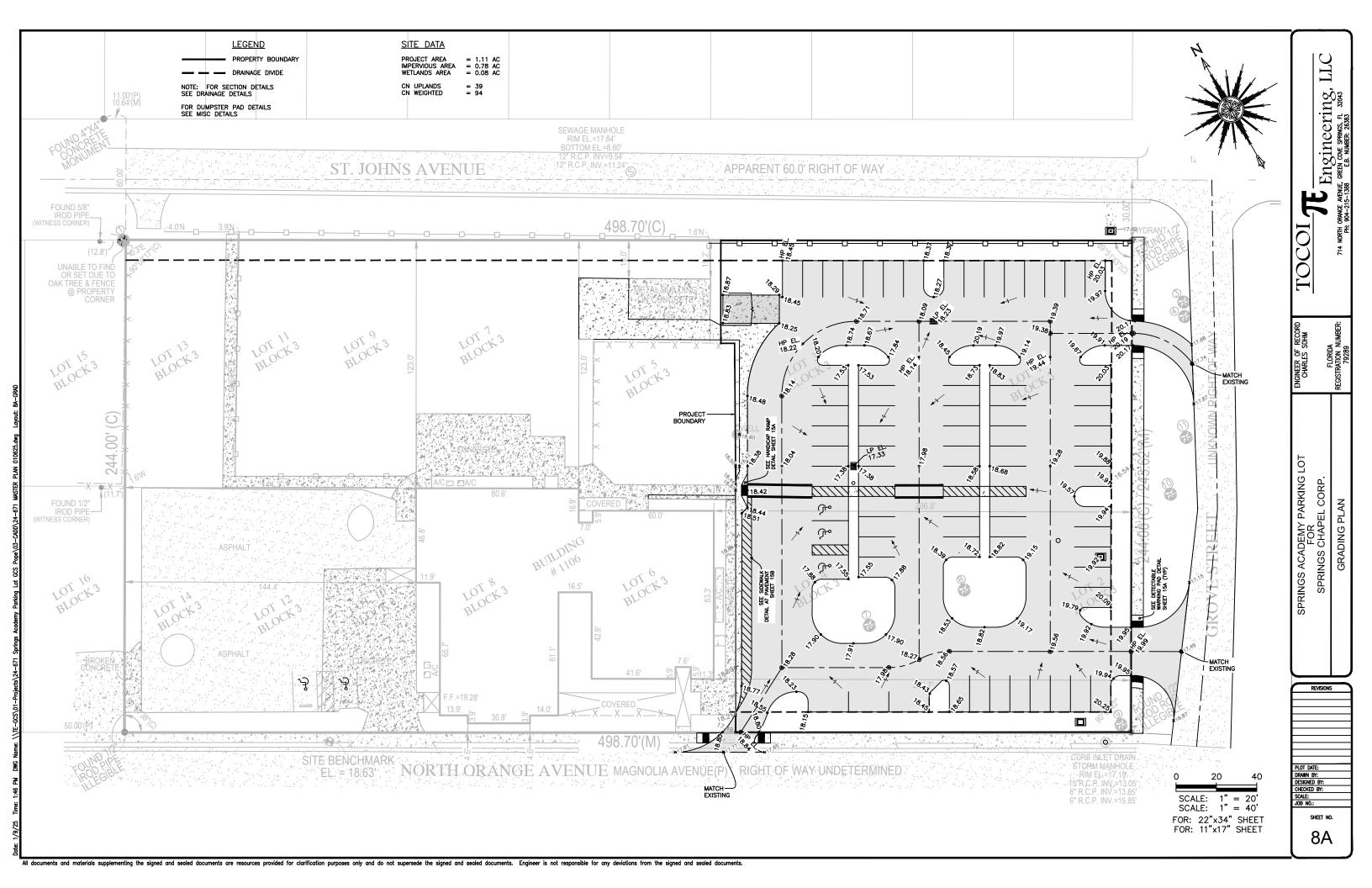


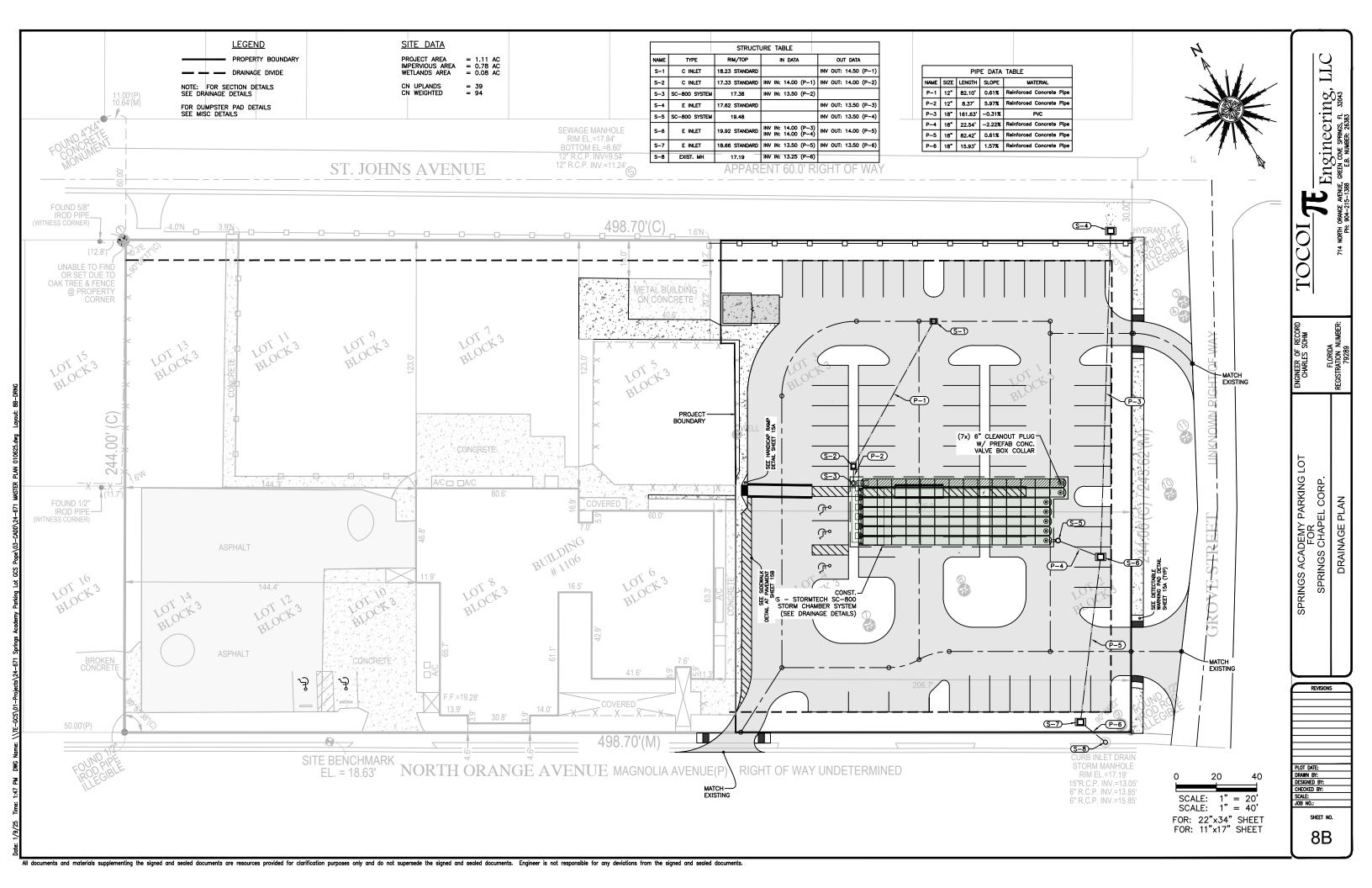


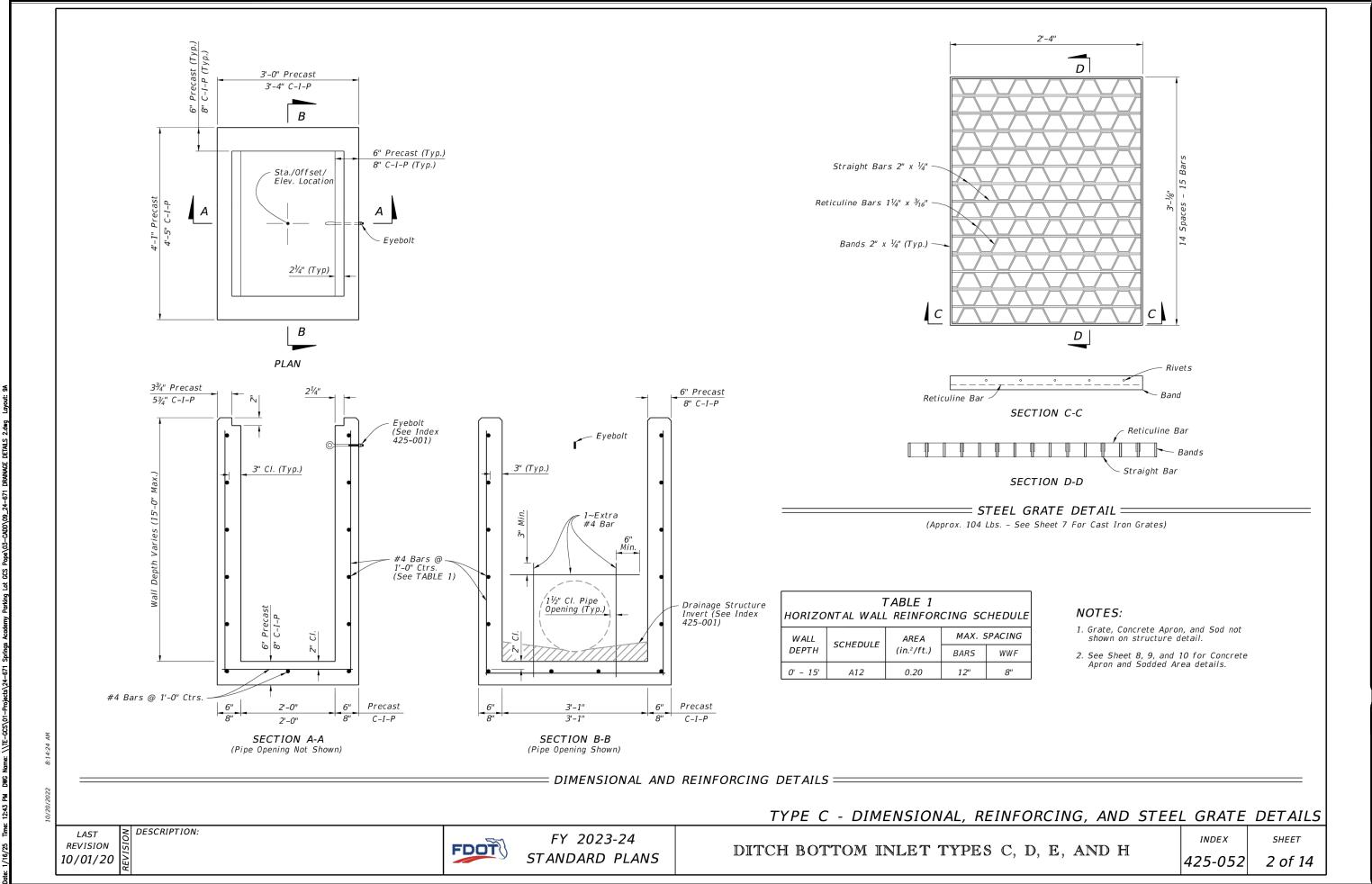










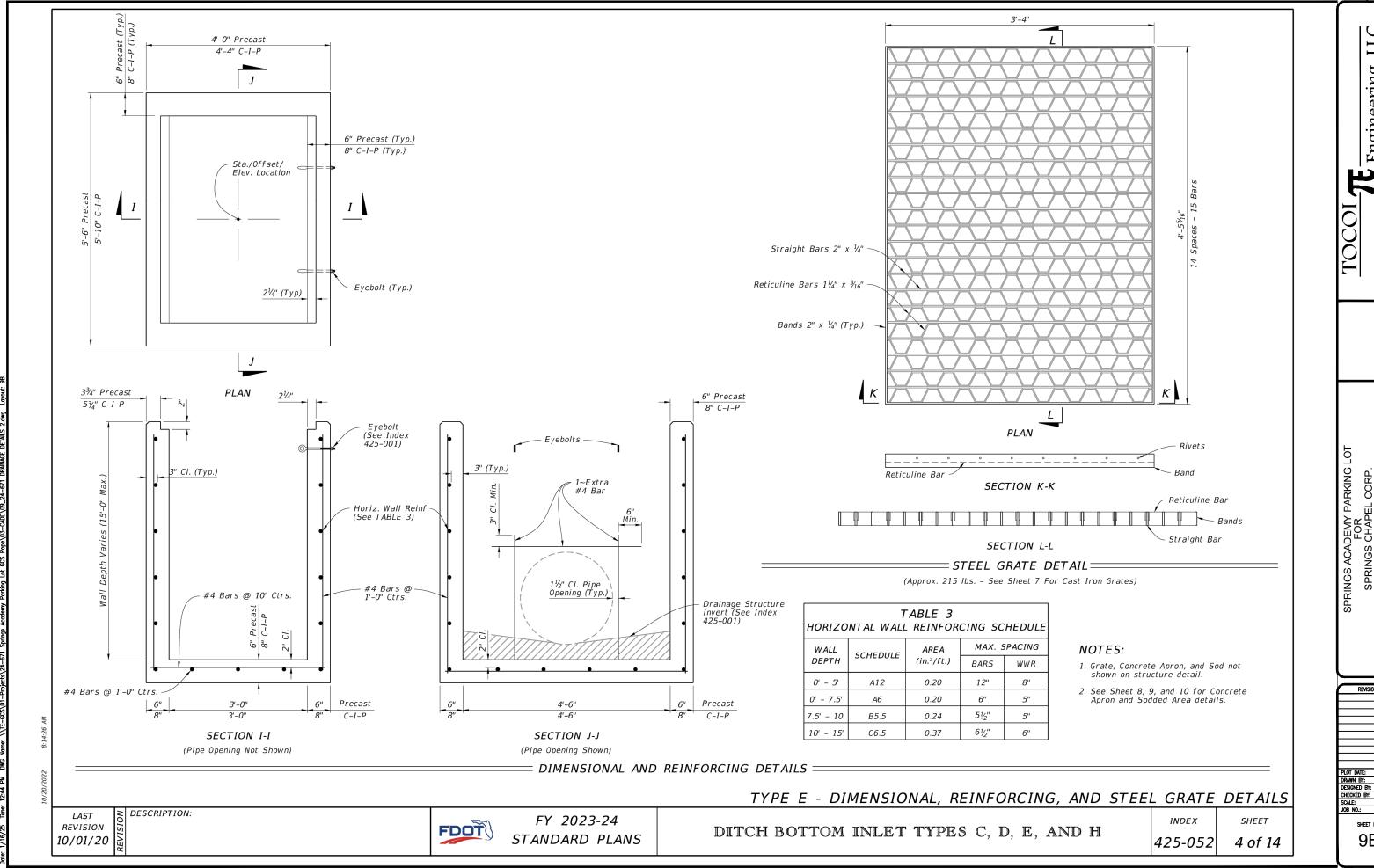


All documents and materials supplementing the signed and sealed documents are resources provided for clarification purposes only and do not supersede the signed and sealed documents. Engineer is not responsible for any deviations from the signed and sealed documents.

Engineering,

SPRINGS ACADEMY PARKING LOT FOR SPRINGS CHAPEL CORP.

REVISIONS PLOT DATE: DRAWN BY: DESIGNED BY: CHECKED BY: SCALE: JOB NO.: SHEET NO. 9A

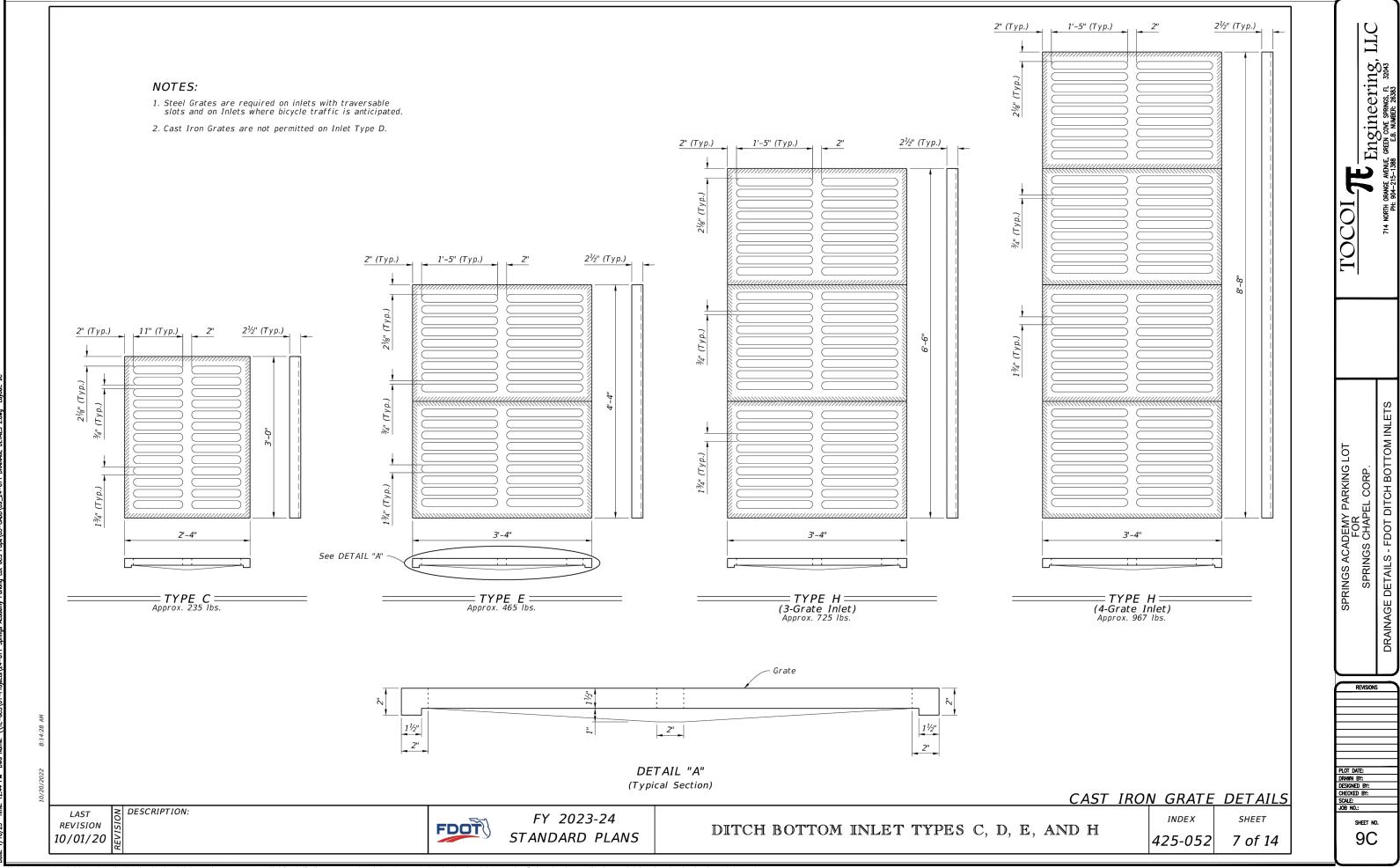


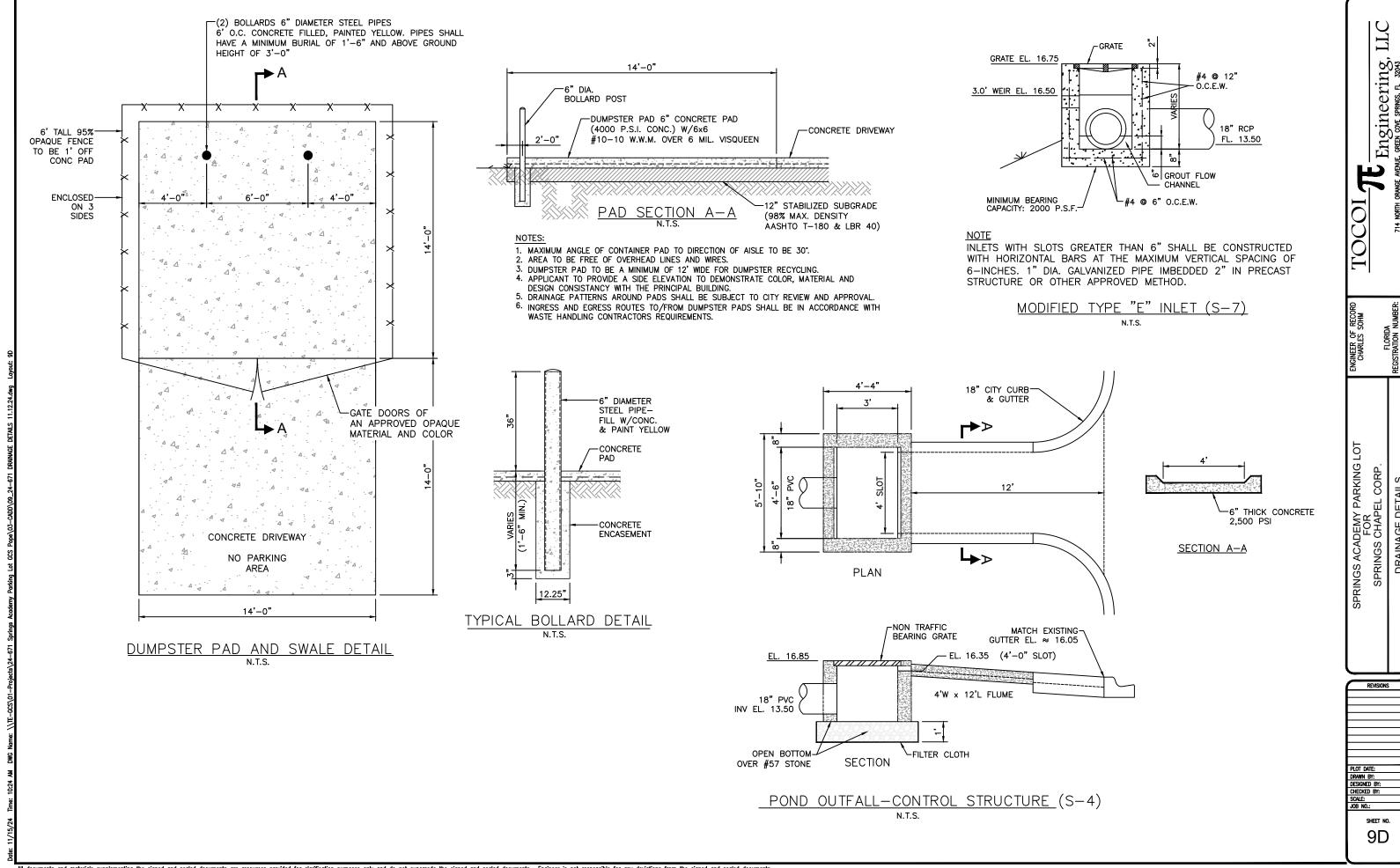
Engineering,

REVISIONS

SHEET NO.

9B





PROJEC	CT INFORMATION
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	





SPRINGS CHAPEL

GREEN COVE SPRINGS, FL, USA

SC-800 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-800.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- 3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- 5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- 7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- 8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- 9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
- 10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- 11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-800 SYSTEM

- STORMTECH SC-800 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A
 PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- 2. STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- 6. MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS
- . EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- 9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
- 2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-800 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
- 3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PLOT DATE:
DRAWN BY:
DESIGNED BY:
CHECKED BY:
SCALE:
JOB NO.:
SHEET NO.

PARKING LOT

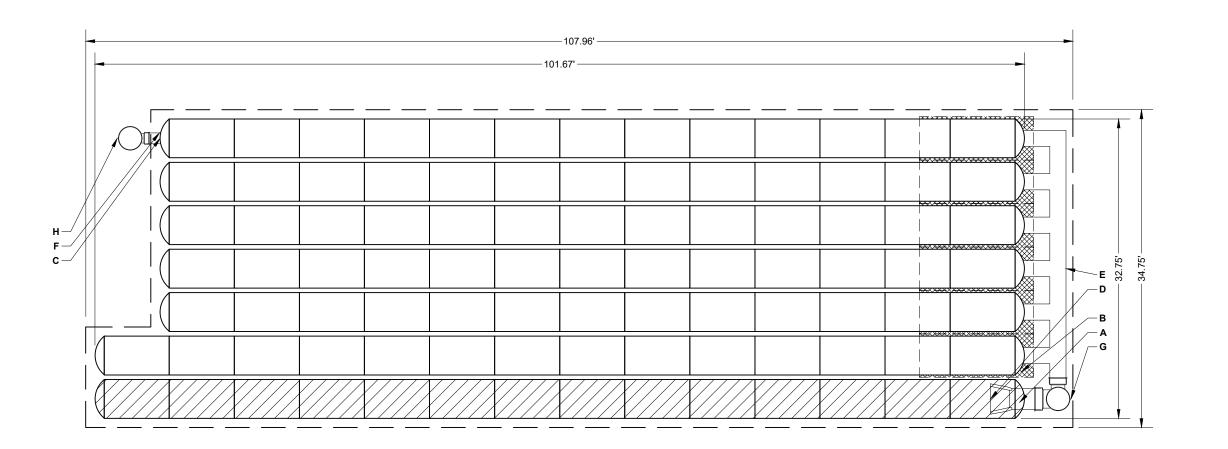
SPRINGS ACADEMY PA FOR SPRINGS CHAPEL

CORP.

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	PROPOSED LAYOUT	PROPOSED ELEVATIONS:				*INVERT AB	OVE BAS	E OF CHAMBER
93		MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	23.25	PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
12 6	STORMTECH SC-800 END CAPS STONE ABOVE (in)	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC): MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	17.00 16.50	PREFABRICATED END CAP	Δ :	24" BOTTOM CORED END CAP, PART#: SC800EPE24BPC / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	2.30"	
6 40	STONE BELOW (in) STONE VOID	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT): MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	16.50 16.50	PREFABRICATED END CAP	В	8" TOP CORED END CAP, PART#: SC800EPE18TPC / TYP OF ALL 18" TOP CONNECTIONS	8.00"	
	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)	TOP OF STONE: TOP OF SC-800 CHAMBER:	15 25	PREFABRICATED END CAP FLAMP	D	2" BOTTOM CORED END CAP, PART#: SC800EPE12BPC / TYP OF ALL 12" BOTTOM CONNECTIONS NSTALL FLAMP ON 24" ACCESS PIPE / PART#: SC74024RAMP		
8196	(COVER STONE INCLUDED) (BASE STONE INCLUDED)	18" x 18" TOP MANIFOLD INVERT: 24" ISOLATOR ROW PLUS INVERT:		MANIFOLD PIPE CONNECTION	E F	8" x 18" TOP MANIFOLD, ADS N-12 2" BOTTOM CONNECTION	8.00" 1.60"	
	SYSTEM AREA (SF) SYSTEM PERIMETER (ft)	12" BOTTOM CONNECTION INVERT: BOTTOM OF SC-800 CHAMBER:	12.63	NYLOPLAST (INLET W/ ISO PLUS ROW)	G	60" DIAMETER (24.00" SUMP MIN)		14.0 CFS IN
304.4	OTOTEMIT EXIMETER (II)	BOTTOM OF STONE:		NYLOPLAST (OUTLET)	Н	0" DIAMETER (DESIGN BY ENGINEER)		2.0 CFS OUT



ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 12.50' OF ADSPLUS625 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

— BED LIMITS

NOTES

THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.

NOT FOR CONSTRUCTION: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

All documents and materials supplementing the signed and sealed documents are resources provided for clarification purposes only and do not supersede the signed and sealed documents. Engineer is not responsible for any deviations from the signed and sealed documents.

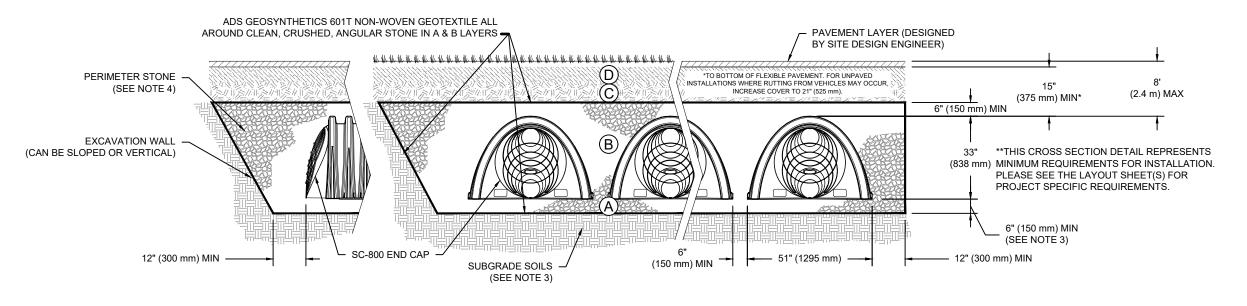
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ACCEPTABLE FILL MATERIALS: STORMTECH SC-800 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 15" (375 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ⁵	AASHTO M43¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE⁵	AASHTO M43¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:

- 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
- WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

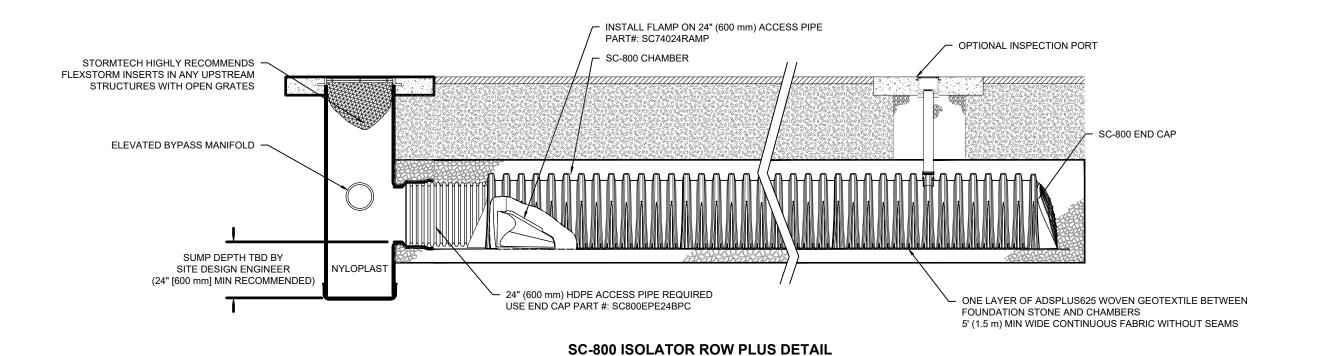
- 1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
- 2. SC-800 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

SHEET NO. 9G

PARKING LOT

SPRINGS ACADEMY PARKING FOR SPRINGS CHAPEL CORP

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INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT

A. INSPECTION PORTS (IF PRESENT)

- A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
- A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
- A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
- A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
- A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
- B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - 2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
- B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
 - A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
 - B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

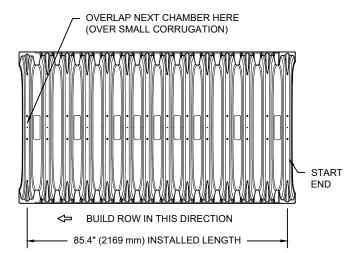
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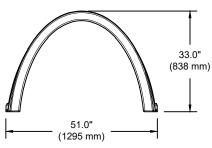
- 1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- 2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

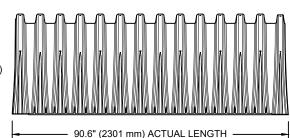
SPRINGS ACADEMY PARKING LOT FOR SPRINGS CHAPEL CORP. SHEET NO.

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32.6" 12.2" 46.5" (1181 mm) (310 mm)







(1295 mm X 838 mm X 2169 mm)

NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH) CHAMBER STORAGE

MINIMUM INSTALLED STORAGE*

50.6 CUBIC FEET (1.43 m³) 81.0 CUBIC FEET (2.29 m³) (37.1 kg)

51.0" X 33.0" X 85.4"

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH) **END CAP STORAGE**

MINIMUM INSTALLED STORAGE** WEIGHT

46.5" X 32.6" X 10.5" (1181 mm X 828 mm X 267 mm)

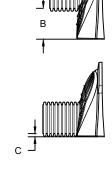
3.4 CUBIC FEET (0.09 m³) 15.4 CUBIC FEET (0.43 m³) 15.7 lbs. (7.1 kg)

* ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

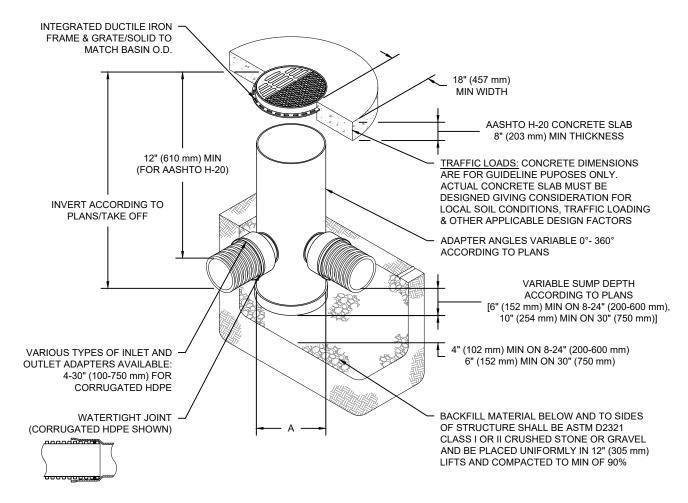
**ASSUMES 6" (152 mm) STONE ABOVE AND BELOW END CAPS, 6" (152 mm) BETWEEN ROWS, 12" (305 mm) BEYOND END CAPS

PRE-CORED HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "BPC" PRE-CORED HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "TPC"

PART#	STUB	В	С
SC800EPE06TPC	6" (150 mm)	21.4" (544 mm)	
SC800EPE06BPC	0 (130 11111)		0.9" (23 mm)
SC800EPE08TPC	8" (200 mm)	19.2" (488 mm)	
SC800EPE08BPC	0 (200 11111)		1.0" (25 mm)
SC800EPE10TPC	10" (250 mm)	17.0" (432 mm)	
SC800EPE10BPC	10 (250 11111)		1.2" (30 mm)
SC800EPE12TPC	12" (300 mm)	14.4" (366 mm)	
SC800EPE12BPC	12 (300 11111)		1.6" (41 mm)
SC800EPE15TPC	15" (375 mm)	11.3" (287 mm)	
SC800EPE15BPC	15 (3/3/11111)		1.7" (43 mm)
SC800EPE18TPC	10" (4F0 mm)	8.0" (203 mm)	
SC800EPE18BPC	18" (450 mm)		2.0" (51 mm)
SC800EPE24BPC	24" (600 mm)		2.3" (58 mm)
SC800EPE	NONE	SOLID END CAP	



NYLOPLAST DRAIN BASIN



NOTES

- 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION: WWW.NYLOPLAST-US.COM
- TO ORDER CALL: 800-821-6710

Α	PART#	GRATE/SOLID COVER OPTIONS			
8" (200 mm)	2808AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY	
10" (250 mm)	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY	
12"	2812AG	PEDESTRIAN	STANDARD AASHTO	SOLID	
(300 mm)		AASHTO H-10	H-20	AASHTO H-20	
15"	2815AG	PEDESTRIAN	STANDARD AASHTO	SOLID	
(375 mm)		AASHTO H-10	H-20	AASHTO H-20	
18"	2818AG	PEDESTRIAN	STANDARD AASHTO	SOLID	
(450 mm)		AASHTO H-10	H-20	AASHTO H-20	
24"	2824AG	PEDESTRIAN	STANDARD AASHTO	SOLID	
(600 mm)		AASHTO H-10	H-20	AASHTO H-20	
30"	2830AG	PEDESTRIAN	STANDARD AASHTO	SOLID	
(750 mm)		AASHTO H-20	H-20	AASHTO H-20	

NOTE: ALL DIMENSIONS ARE NOMINAL

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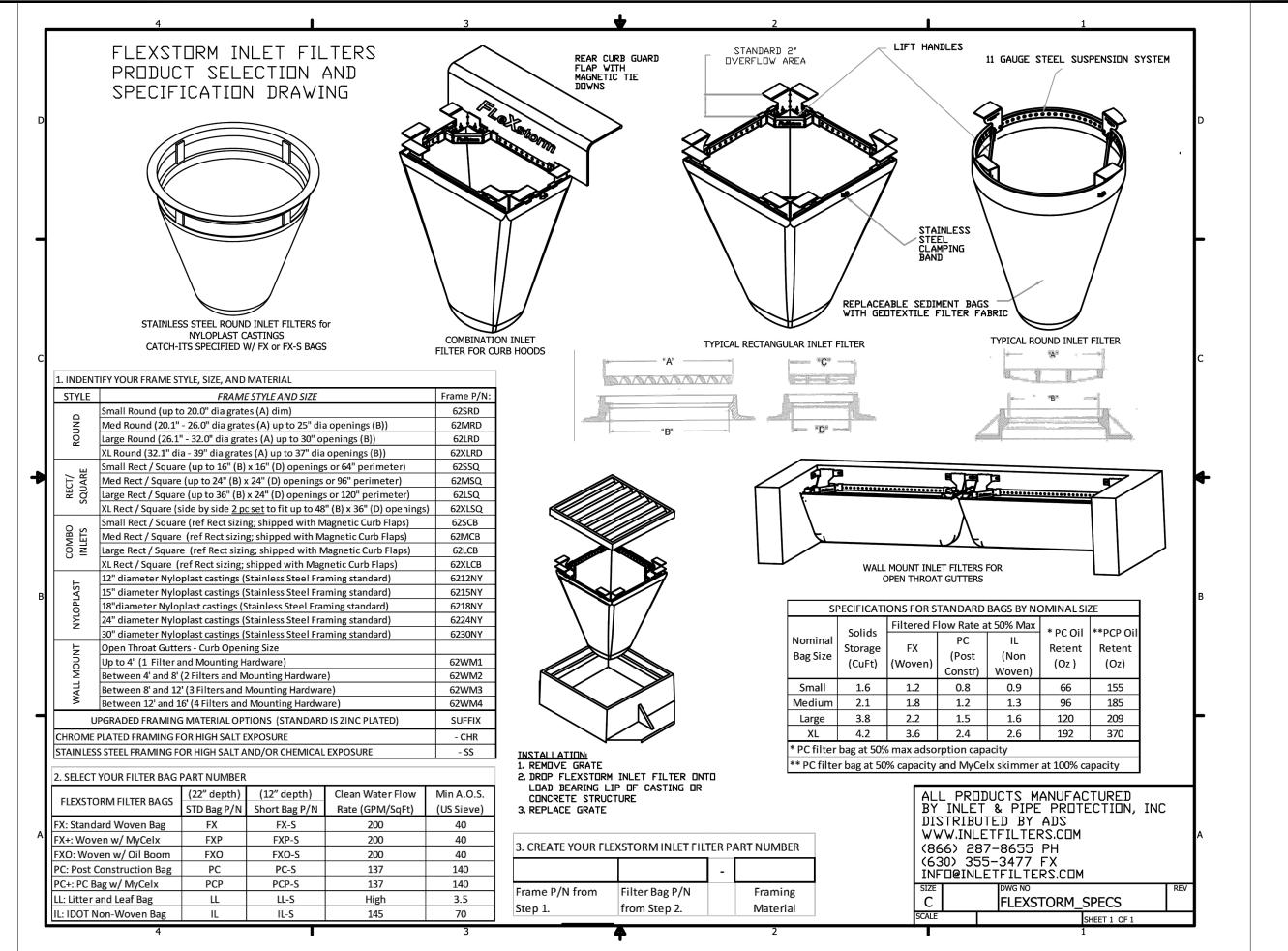
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SPRINGS ACADEMY PARKING LOT FOR SPRINGS CHAPEL CORP. SPRINGS

SHEET NO.

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PARKING LOT

SPRINGS ACADEMY PARKING FOR SPRINGS CHAPEL CORP.

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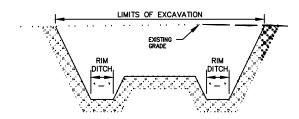
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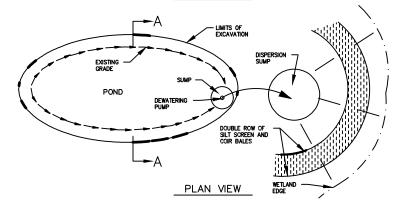
- THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORAR' EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
- ADDITIONAL PROTECTION ON—SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
- CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
- WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2—INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS REQUIRED, THE STRIPS SHALL BE OVERLAPPED.
- 6. FDOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON SEDIMENT FILTER DETAIL (SEE DETAIL THIS SHEET). THE DEP THOF STONE SHALL BE AT LEAST 12 IN GHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BETOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
- IF THE STONE FILTER BECOMES CO GSD MM SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
- 8. BALES SHALL BE EITHER WIRE—BOUND OR STRING—TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
- BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
- 10. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 4 INCHES, AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
- 11. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
- LOOSE COIR SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
- 13. COIR BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- 14. CLOSE ATTENTION SHALL BE GIVEN TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
- 15. NE ŒSSART REP ARS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
- 16. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL.IT MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- 17. ANY SEDIMENT DEPOSITS REMAINING IN PLACE, AFTER THE COIR BALE OR FILTER BARRIERS, AND OR SILT FENCES ARE NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDEN
- 18. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY
- 19. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INSECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
- 20. STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS REQUIRED.
- 21. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP, REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- 22. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT RULES AND REGULATIONS.
- 23. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THIE FLORIDA DEVELOPMENT MANUAL. A GUIDE TO SOUND LAND AND WATER MANAGEMENT! FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.P.) CHAPTER 6.
- 24. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAILS (THIS SHEET) FOR TYPICAL CONSTRUCTION.
- 25. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
- 26. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
- 27. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
- 28. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED AND MULCHED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. CONTRACTOR SHALL USE ADDITIONAL MEASURES TO STABLIZE DISTURBED AREAS THROUGH COMPACTION, SLIT SCREINS, CO
- 29. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL AFTER COMPLETION OF CONSTRUCTION, AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
- 30. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
- 31. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO COMPULANCE OF SARWAD FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.
- 32. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS AND PRESERVATION EASEMENTS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
- 33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER THE CONTRACT DOCUMENTS AND MEETING THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, ST. JOHNS COUNTY, AND NPDES FINAL STABLIZATION REQUIREMENTS.
- 34. THESE PLANS INCLUDING THE POLLUTION PREVENTION PLAN INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL A GUIDE TO

SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) CHAPTER 6. CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITTC ONTROL AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS, AND FINES.

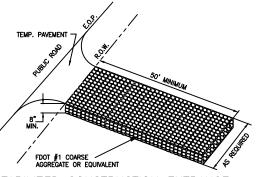
35. 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE EPA IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS. (FOR ANY CONSTRUCTION NOT COVERED BY THE OWNER'S



SECTION A-A



TEMPORARY DEWATERING DETAIL

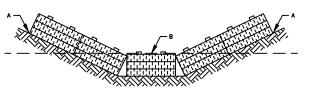


STABILIZED CONSTRUCTION ENTRANCE

SPECIFIC APPLICATION

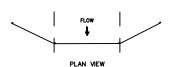
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

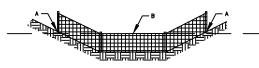
COIR BALE DROP INLET SEDIMENT FILTER



POINTS A SHOULD BE HIGHER THAN POINT B

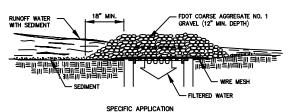
PROPER PLACEMENT OF COIR BALE IN A DRAINAGE WAY





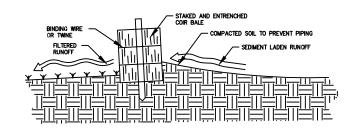
SECTION VIEW POINTS A SHOULD BE HIGHER THAN POINT B

PROPER PLACEMENT OF A FILTER BARRIER IN DRAINAGE WAY N.T.S.



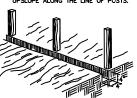
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREA.

GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

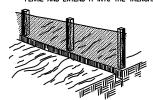


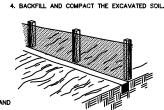
CROSS-SECTION OF A PROPERLY

INSTALLED COIR BALE



3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



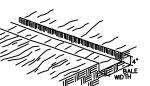


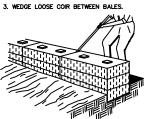
2. STAPLE WIRE FENCING TO THE POSTS

EXTENSION OF FABRIC AND WIRE INTO THE TRENCH.



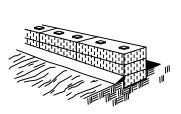
CONSTRUCTION OF SILT FENCE





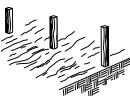
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

2. PLACE AND STAKE COIR GALES.

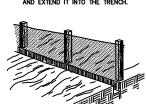


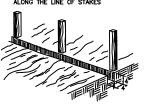
CONSTRUCTION OF A COIR BALE BARRIER

1. SET THE STAKES.

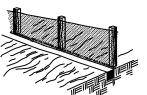


STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH.





4. BACKFILL AND COMPACT THE EXCAVATED SOIL



CONSTRUCTION OF A FILTER BARRIER

All documents and materials supplementing the signed and sealed documents are resources provided for clarification purposes only and do not supersede the signed and sealed documents. Engineer is not responsible for any deviations from the signed and sealed documents

Engineering

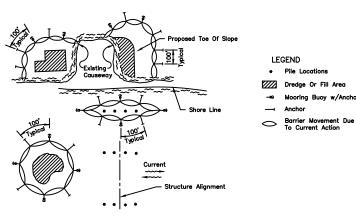
SINEER OF RECOI

PARKING LOT DETAIL SPRINGS ACADEMY PARKING FOR SPRINGS CHAPEL CORP.

REVISIONS

DRAWN BY: DESIGNED BY: CHECKED BY:

SHEET NO. 10A



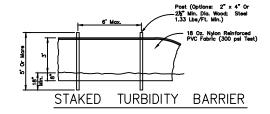
- 1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
- 2. Number and spacing of anchors dependent on current velocities.
- 3. Deployment of barrier around pile locations may vary to accommodate construction operations.
- Navigation may require segmenting barrier during construction operations.
 For additional information see Section 104 of the FDOT Standard Specifications.

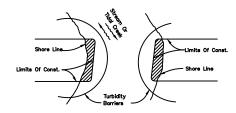
TURBIDITY BARRIER APPLICATIONS

TURBIDITY BARRIERS

(D-907) N.T.S.

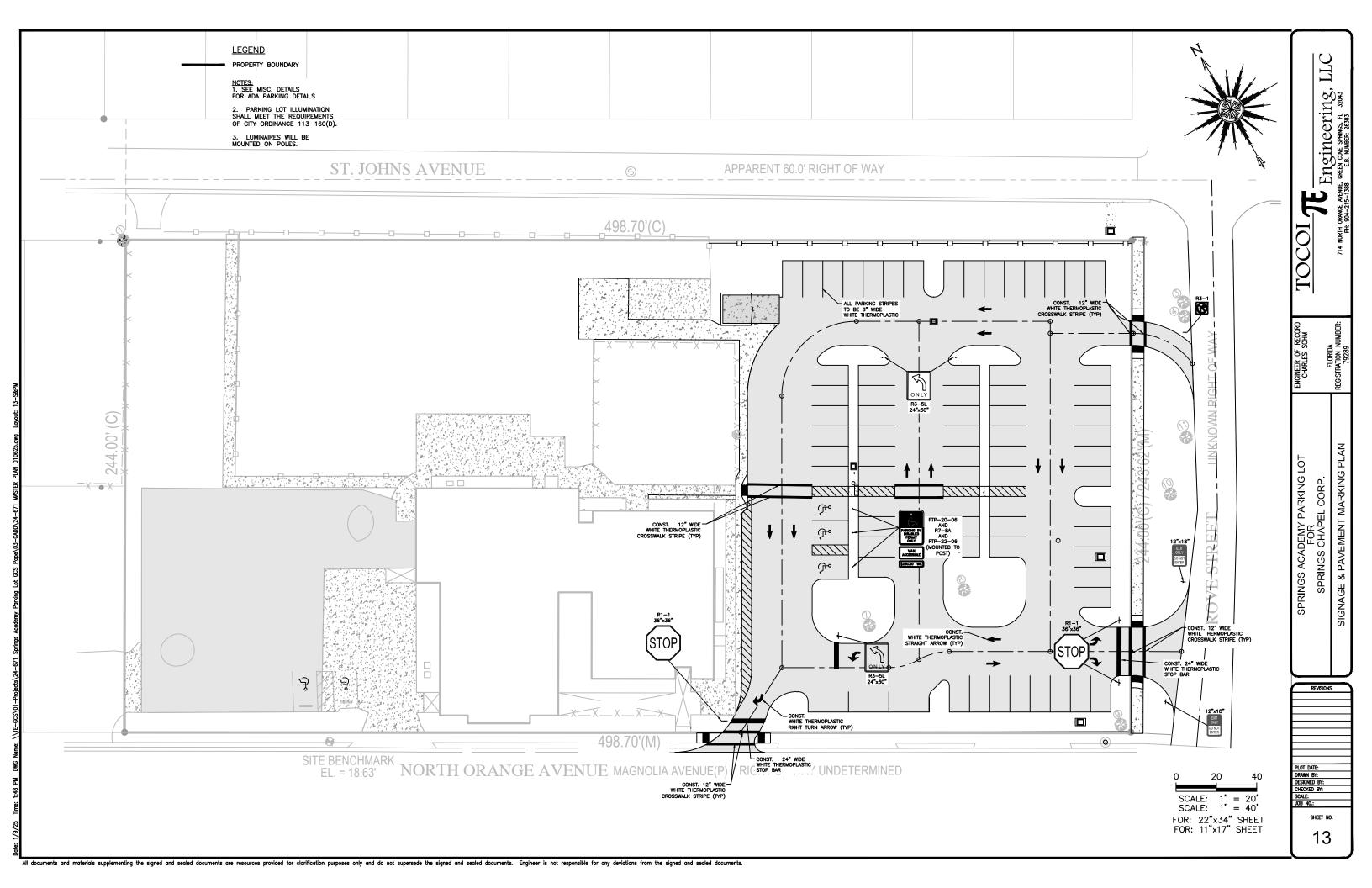
COMPONENTS OF TYPES I & TYPE II MAY
BE SIMILAR OR IDENTICAL TO PROPRIETARY BE SIMILAR OR IDENTICAL TO PROPRIETAL DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY

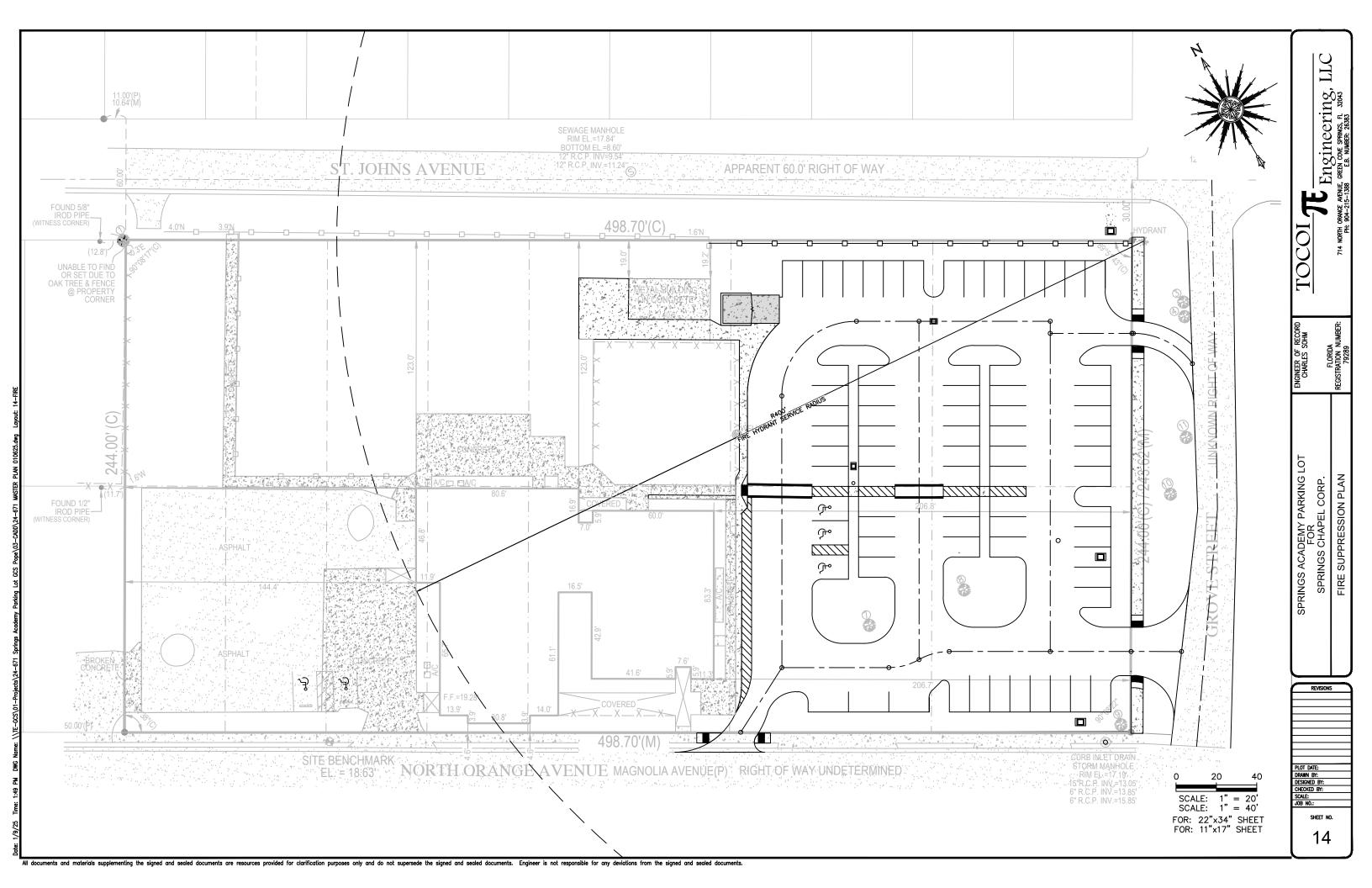


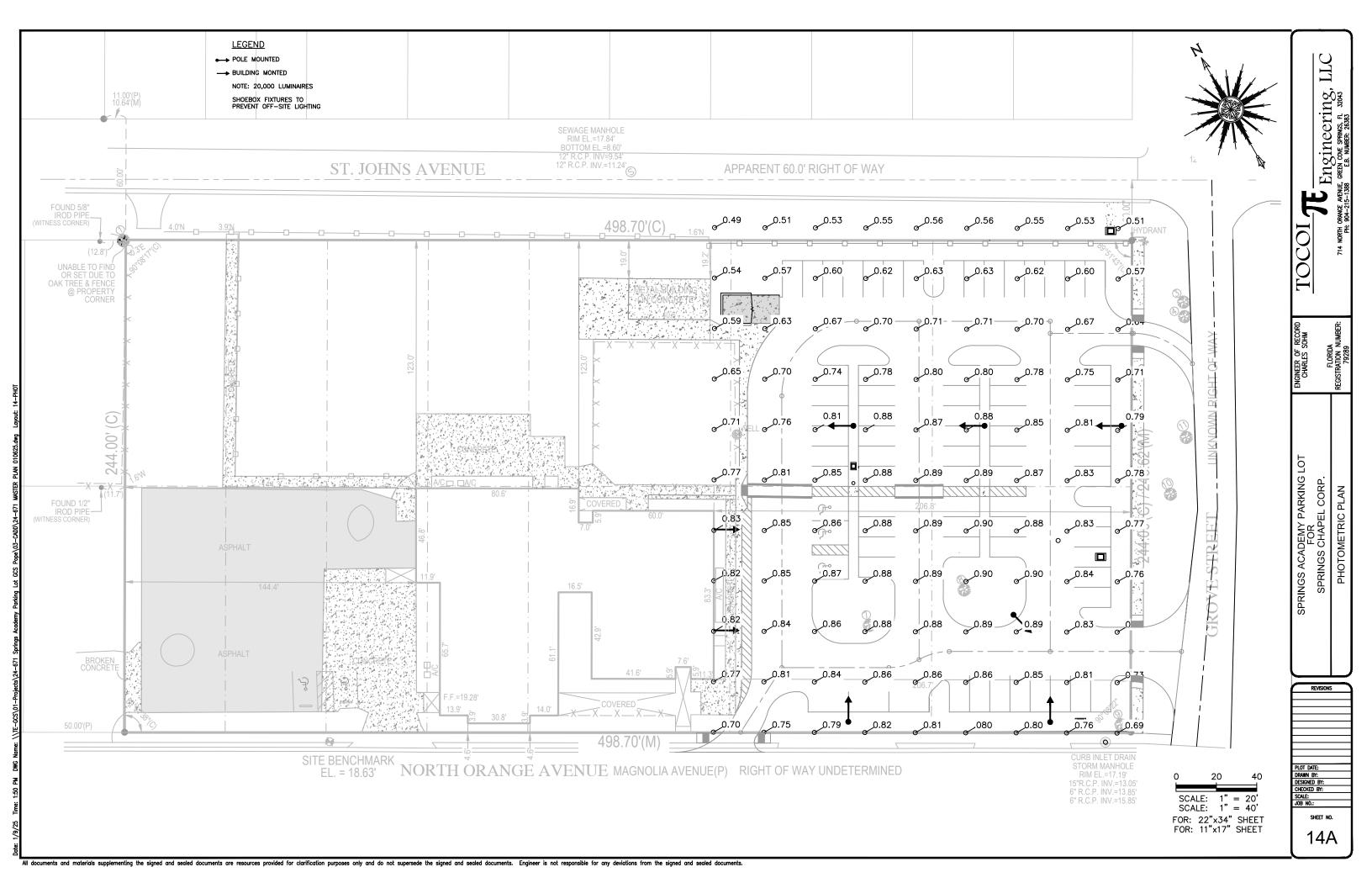


Engineering, GINEER OF RECOF CHARLES SOHM SPRINGS ACADEMY PARKING LOT FOR SPRINGS CHAPEL CORP.

REVISIONS SHEET NO. 10B



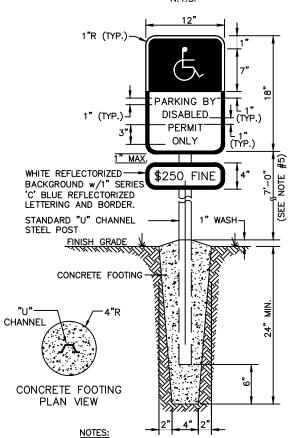




NOTE: SYMBOL SHALL BE PAINTED WITH WHITE TRAFFIC PAINT WITHIN OUTLINE SHOWN.

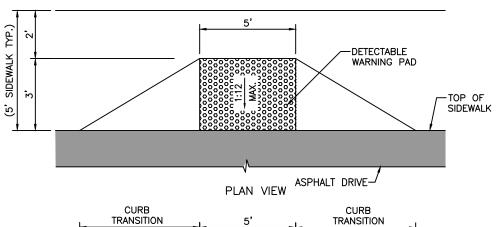
PARKING SPACE

HANDICAPPED SYMBOL DETAIL



- 1. ALL LETTERS ARE 1" SERIES.
- 2. TOP PORTION OF SIGN SHALL HAVE A REFLECTORIZED BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND & BORDER.
- 3. BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED WHITE BACKGROUND WITH BLOCK OPAQUE LEGEND & BORDER
- 4. LETTERS AND NUMBERS ON SIGN SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO
- 5. SIGNS SHALL NOT BE OSCURED BY A VEHICLE PARKED IN THE SPACE.
- 6. HANDICAPPED PARKING SPACE SIZE, STRIPING, AND SIGNAGE SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CITY, STATE, & FEDERAL

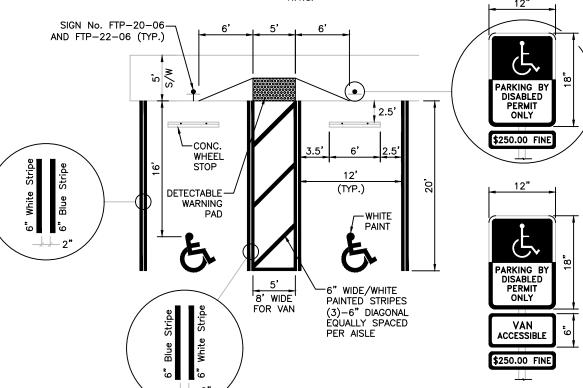
HANDICAP SIGN DETAIL



TOP OF SIDEWALK CURB DROP SIDEWALK FACE-SECTION

> NOTE: ALL NEW CONCRETE RAMP SURFACES TO RECEIVE BROOM FINISH. SEE FDOT STANDARD SPECIFICATIONS 522-7.2 (SURFACE REQUIREMENTS)

HANDICAP RAMP DETAIL N.T.S.



- 1. EACH SUCH PARKING SPACE SHALL BE CONSPICUOUSLY OUTLINED IN BLUE PAINT, AND SHALL BE POSTED AND MAINTAINED WITH A PERMANENT, ABOVE—GRADE SIGN BEARING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY OR THE CAPTION "PARKING BY DISABLED PERMIT ONLY", OR BEARING BOTH SUCH SYMBOLS AND CAPTION. SUCH SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE. ALL HANDICAPPED PARKING SPACES MUST BE DESIGNED AND MARKED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY THE DEPARTMENT OF TRANSPORTATION.
- 2. THE FTP-22-06 PANEL SHALL BE MOUNTED BELOW THE FTP-20-06 SIGN.

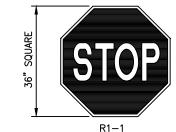
HANDICAP PARKING DETAIL



NOTES:

- 1. ALL LETTERS ARE 1" SERIES.
- 2. TOP PORTION OF SIGN SHALL HAVE A BLACK BACKGROUND WITH BLACK LEGEND & BORDER.
- 3. BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED WHITE BACKGROUND WITH BLOCK OPAQUE LEGEND & BORDER
- 4. LETTERS AND NUMBERS ON SIGN SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.

SIGN DETAILS



NOTE:

THE STOP SIGN SHALL BE OCTAGON WITH WHITE MESSAGE AND BORDER ON A RED BACKGROUND.

36"x36"

THE POSTS AND BRACKETS WILL BE PER FDOT STANDARD INDEX 11860 AND 11861.

STOP SIGN DETAILS

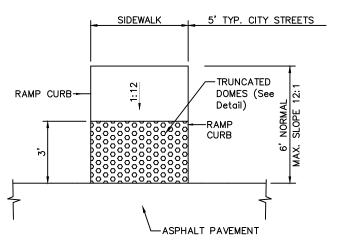


NOTE:

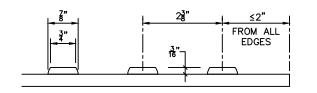
THE SIGN SHALL BE 24" X 24: WITH BLACK ARROW AND BORDER, A RED NUL SYMBOL, ON A WHITE BACKGROUND

THE POSTS AND BRACKETS WILL BE PER FDOT STANDARD INDEX 11860 AND 11861.

NO RIGHT TURN SIGN DETAILS



PLAN VIEW



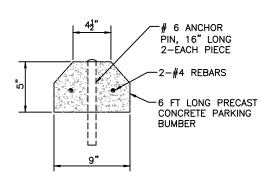
TRUNCATED DOME -DETECTABLE WARNING PAD DETAIL N.T.S.

REVISIONS RAWN BY: ESIGNED BY: HECKED BY: SHEET NO. 15A

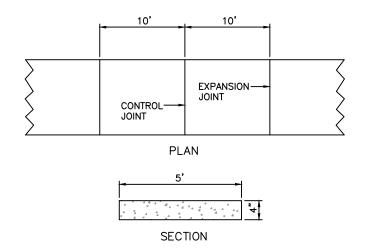
PARKING LOT

SPRINGS ACADEMY PARKING FOR SPRINGS CHAPEL CORP.

Engineering

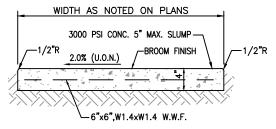


CONCRETE PARKING BLOCK N.T.S.

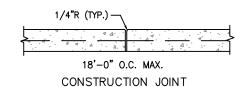


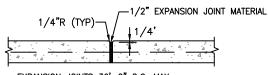
- 1. 1/2" EXPANSION JOINTS PLACED AT 20' O.C. WITH TOOLED CONTROL JOINTS (1 1/2" DEEP) EVERY 10' O.C.
- 2. SIDEWALKS SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, CLASS NON-STRESS (NS), AND ALL METHODS OF CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDING TO THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

CONCRETE SIDEWALK

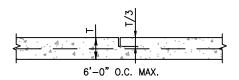


WALK SECTION





EXPANSION JOINTS 36'-0" O.C. MAX. PROVIDE AT EVERY SIDEWALK INTERSECTION **EXPANSION JOINT**



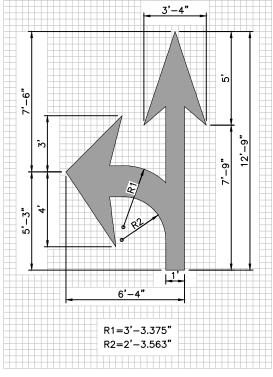
SAWCUT

1. 1/2" EXPANSION JOINTS PLACED AT 20' O.C. WITH 2. TOOLED CONTROL JOINTS (1 1/2" DEEP) EVERY 10' O.C.

SIDEWALKS SHALL BE CONSTRUCTED OF COQUINA CONCRETE, CLASS NON—STRESS (NS), AND ALL METHODS OF CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDING TO THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD

VARIES

SIDEWALK DETAILS



TURN AND THROUGH LANE-USE

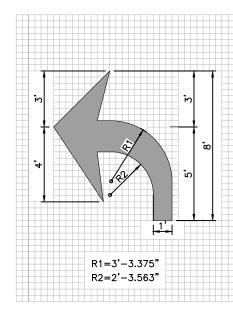
-1-1/2" THICK ASPHALT

12" STABILIZED SUBGRADE

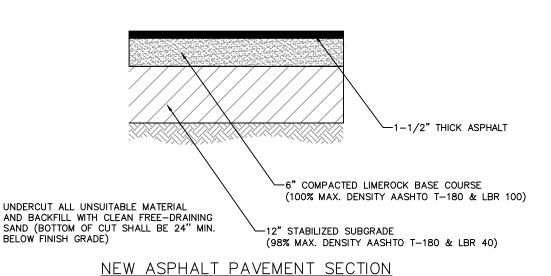
-6" COMPACTED LIMEROCK BASE COURSE

(100% MAX. DENSITY AASHTO T-180 & LBR 100)

(98% MAX. DENSITY AASHTO T-180 & LBR 40)



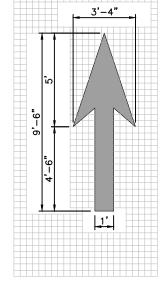
TURN LANE-USE ARROW (LEFT TURN SHOWN -RIGHT TURN SIMILAR)



N.T.S.

UNDERCUT ALL UNSUITABLE MATERIAL AND BACKFILL WITH CLEAN FREE-DRAINING SAND (BOTTOM OF CUT SHALL BE 24" MIN. BELOW FINISH GRADE) **AND**

-1/2**"**R



THROUGH LANE-USE ARROW

SIDEWALK DETAIL AT PAVEMENT NEW ASPHALT PAVEMENT SECTION SPRINGS ACADEMY PARKING LOT FOR SPRINGS CHAPEL CORP.

CHARLES (

Engineering

REVISIONS SHEET NO. 15B

Problem of the management of t

NGINEER OF RECORD CHARLES SOHM FLORIDA GISTRATION NUMBER:

PARKING LOT
EL CORP.
REQUIREMENTS

SPRINGS ACADEMY PARKING FOR SPRINGS CHAPEL CORP.

PLOT DATE: Drawn BY: Designed BY: CHILD BY: SCALE:

SHEET NO.

REVISIONS

PERFOR TO BE

DAYS SINCE LAST

All documents and materials supplementing the signed and sealed documents are resources provided for clarification purposes only and do not supersede the signed and sealed documents. Engineer is not responsible for any deviations from the signed and sealed documents.

DEPTH OF SEDIMENT BASIN

REVISIONS

SWPPP CONTRACTOR CERTIFICATION SPRINGS ACADEMY PARKING LOT FOR SPRINGS CHAPEL CORP.

NOTE TO CONTRACTOR:
THIS IS THE CONTRACTORS CERTIFICATION REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION
SYSTEM (NPDES), STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION SITES OVER 5 ACRES. THIS
CERTIFICATION MUST BE COMPLETED WEEKLY AND AFTER EVERY RAINFALL EVENT OVER 0.25 INCHES. IT IS
SUGGESTED THAT THIS SHEET BE REMOVED FROM THE PLAN SET AND DUPLICATED AS NEEDED BY THE CONTRACTOR.

PAGE 4 OF 4

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TO BE PERFORMED

3 OF PAGE

ENGINEER OF RECORD CHARLES SOHM

LLC Engineering, I consider Active Remove France 714 NORTH ORANGE AVENUE, GREE PH: 904-215-1388 TOCOI

PLOT DATE: DRAWN BY: DESIGNED BY: CHECKED BY: SCALE: JOB NO.: SHEET NO. 17

Florida Registration Number: 79289