



**AGENDA  
TECHNICAL REVIEW COMMITTEE  
REGULAR MEETING  
SEPTEMBER 10, 2020  
9:00 AM  
CITY HALL COMMISSION CHAMBERS  
204 ASH STREET  
FERNANDINA BEACH, FL 32034**

**1. CALL TO ORDER**

**2. ROLL CALL**

**3. PLEDGE OF ALLEGIANCE**

**4. APPROVAL OF MINUTES**

4.1 Approval of Minutes for the August 27, 2020 Regular Meeting.

**5. DISCUSSION ITEMS**

5.1 Pre-application: Asa Gillette, Gillette and Associates, Inc. - Construction of a 10, 640 square foot commercial building and associated parking on the western portion of the parcel. Parcel Number 00-00-31-1800-0197-0010 located at the southwest corner of South 14th & Lime Street.

**6. DEVELOPMENT INQUIRIES FROM APPLICANTS NOT ON THE AGENDA - DISCUSSION ONLY, NO ACTION TO BE TAKEN.**

**7. COMMITTEE BUSINESS**

7.1 SPR 2020-0004: SMCC Parking Lot & Liberty Billings Relocation - Sign off

**8. ADJOURNMENT**

**NEXT REGULAR TRC MEETING IS SCHEDULED FOR SEPTEMBER 24, 2020**

Persons with disabilities requiring accommodations in order to participate in this program or activity should contact 310-3115, TTY 711, or through the Florida Relay Services at 1-800-955-8771 (TTY number for all City offices) at least 24 hours in advance to request such accommodations.



**MINUTES  
TECHNICAL REVIEW COMMITTEE  
REGULAR MEETING  
AUGUST 27, 2020**

**1. CALL TO ORDER - 9:02 a.m.**

**2. ROLL CALL**

**MEMBERS PRESENT:**

Jacob Platt, Planning  
Rex Lester, Streets/ADA  
John Mandrick, Utilities  
Dave Holley, Arborist/Planning

Don Kukla, Building  
Andre Desilet, Stormwater  
Michelle Forstrom, Code  
Sal Cumella, Historic Preservation

**MEMBERS ABSENT**

Jason Higginbotham, Fire

**OTHERS PRESENT**

Sylvie McCann, Recording Secretary

**3. PLEDGE OF ALLEGIANCE**

**4. APPROVAL OF MINUTES**

No Minutes presented for approval.

**5. OLD BUSINESS**

**5.1 SPR 2019-11 - Bistro 2020: Comment Response Discussion**

Mr. Desilet joined in at 9:04.

Wayne Chism, contractor, addressed comments provided by the board.

Mr. Platt commented about the hardship waiver for the landscaping plan. He explained that the waiver has to be filled out by the contractor. Also explained to the contractor was that the trees to be planted must be shown on the site plan along with civil/engineering plans being presented to the committee to help with the analysis. Mr. Chism noted that he will provide these as soon as possible.

Mr. Desilet asked about impervious areas.

Mr. Kukla asked about roof drainage and for the contractor to address any secondary. Discussion ensued about downspout and gutters.

## **DRAFT**

Mr. Lester asked about driveway replacement. Mr. Chism noted the hexagonal brick will be used to match the existing. Mr. Chism also mentioned the modification of the curb which would create an extra parking space. Members discussed modification of the location of the gutters.

Ms. Forstrom asked about the totes being stored behind the stairs. Mr. Chism confirmed that there will be enough room for them. Mr. Platt inquired about the easement shown on the site plan.

Mr. Platt asked about flood barrier on the front. Mr. Chism confirmed the minimum of 2 feet above the mean. Mr. Mandrick asked about the backflow preventer. Mr. Chism noted that this is now only a commercial building with 2 offices and no residential areas.

Mr. Chism stated he would email the missing civil plans to Mr. Platt.

### **5.2 SPR 2020-0004 - SMCC Parking Lot & Relocation of Liberty Billings House: Comment Response Discussion**

Jose Miranda, Architect for applicant, noted the comments about lighting were addressed along with the stormwater. He also added that Street comments were addressed. He spoke about meeting the original tree requirements but could not accommodate the additional tree request located between the 2 driveway cuts.

Mr. Platt mentioned that some plans had not been routed to members but only published as part of the agenda packet. Mr. Miranda gave wanted address all comments about each item so to avoid any delay and voiced strong concerns about additional delay on this project.

Mr. Lester suggested putting No Parking signs in addition to requested trees.

Mr. Platt confirmed that this project will be shown on the next agenda with the approval letter. He asked Mr. Miranda for four (4) hard copies of the civil plan.

Ms. Forstrom asked about trash bin location. Mr. Miranda confirmed that they will be located in one common location at the parsonage.

### **5.3 SPR 2020-0006 - Paxton Automotive Marketing: Comment Response Discussion**

Mr. Platt will distribute the plans for this project. No presence was requested as all the comments were addressed.

## **6. DEVELOPMENT INQUIRIES FROM APPLICANTS NOT ON THE AGENDA - DISCUSSION ONLY, NO ACTION TO BE TAKEN.**

None present.

## **7. COMMITTEE BUSINESS**

Mr. Mandrick mentioned that root barriers should be used for all tree planting within 5 feet of street or sidewalks. Mr. Desilet asked if this was included in the Roadway Standards and if not, that an amendment should be created.

## **8. ADJOURNMENT 9:47**

**NEXT REGULAR TRC MEETING IS SCHEDULED FOR SEPTEMBER 10, 2020**

SITE NOTES

PROPERTY  
PARCELS: 00-00-31-1800-0197-0010

ZONING: P.U.D. (C-2)  
LAND USE: P.U.D. (COMMERCIAL)  
TOTAL LOT AREA: 2.64 AC  
FLOOD ZONE: X  
MIN. LOT WIDTH: 50-FT

**BUILDINGS**  
USE: COMMERCIAL / RETAIL  
MAXIMUM BUILDING HEIGHT: 45-FT  
PROPOSED BUILDING HEIGHT: 20-FT±  
TOTAL BLDG. 1 AREA: 10,640 S.F.  
TOTAL BLDG 2 AREA: 14,800 S.F.  
MAXIMUM FLOOR TO AREA RATIO: 1.5  
PROPOSED FLOOR TO AREA RATIO: 0.22

SETBACKS

FRONT YARD: 0  
SIDE YARD: 0  
REAR YARD: 0

TOTAL PROPOSED IMPERVIOUS AREA  
WHOLE SITE:

BUILDINGS: 25,462 SF  
SIDEWALKS: 5,575 SF  
DRIVING AISLES & DRIVEWAY: 45,256 SF  
LESS PERVIOUS PARKING: (14,334 SF)

TOTAL IMPERVIOUS AREA: 62,959 SF = 1.44Ac  
TOTAL LOT AREA: 2.64 Ac

MAXIMUM IMPERVIOUS AREA RATIO: 60%  
PROPOSED IMPERVIOUS SURFACE RATIO: 54.7%

UTILITIES:

- ELECTRIC: FLORIDA PUBLIC UTILITIES  
- WATER: CITY OF FERNANDINA BEACH  
- SEWER: CITY OF FERNANDINA BEACH  
- GAS: FLORIDA PUBLIC UTILITIES  
- CABLE/PHONE: VARIES

PARKING:

- RETAIL: 1 SPACE PER 300 S.F.  
(10,640 S.F.)/(300 SF/SPACE) = 35 SPACES  
TOTAL SPACES PROVIDED: 36  
ADA SPACES: 2

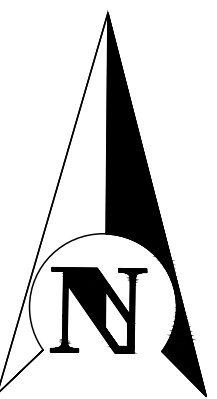
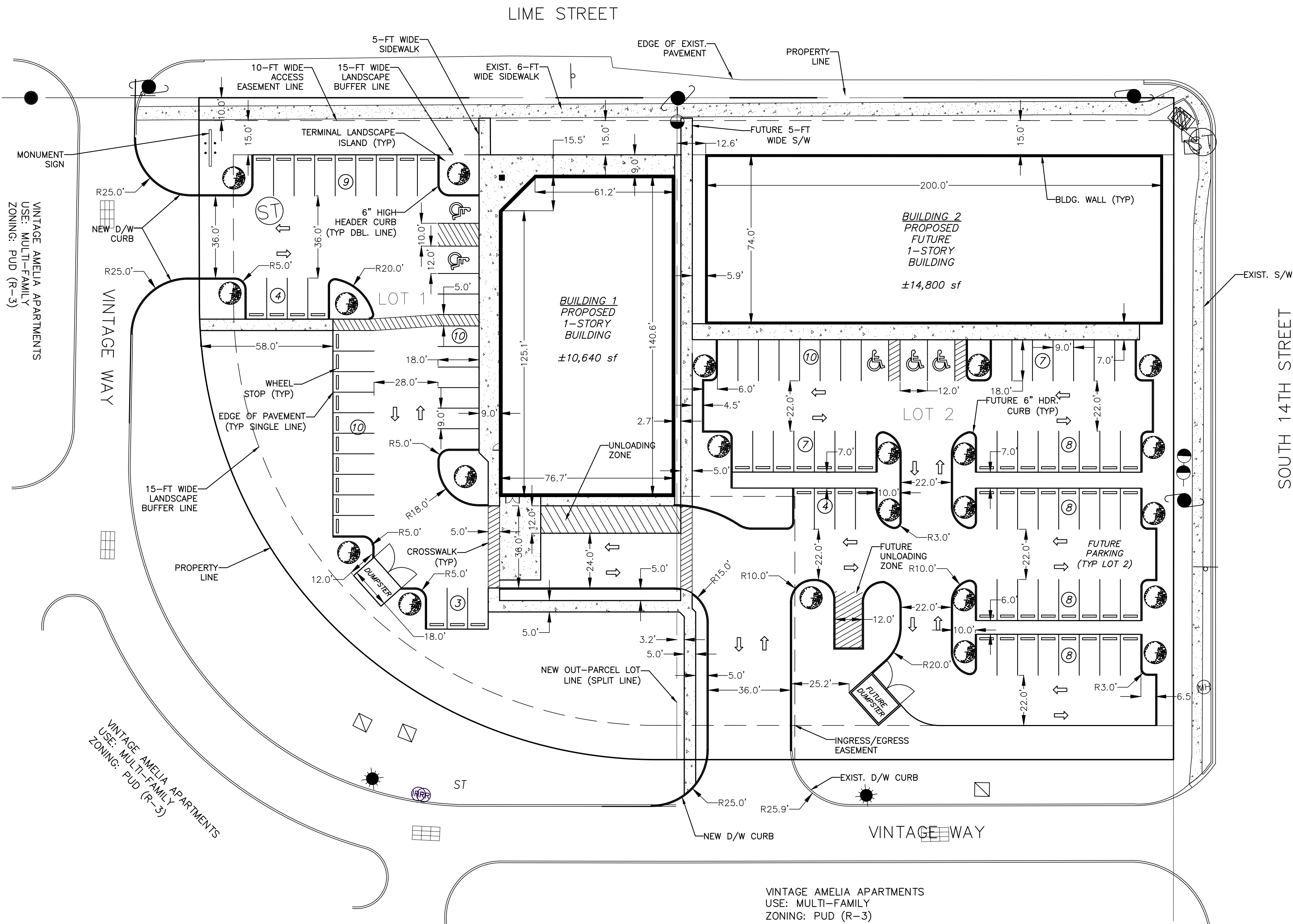
- MEDICAL OFFICE (FUTURE): 1 SPACE PER 250 S.F.  
(14,800 S.F.)/(250 SF/SPACE) = 59 SPACES  
TOTAL SPACES PROVIDED: 63  
ADA SPACES: 3

LANDSCAPE BUFFERS BETWEEN CERTAIN USES

NORTH: MU-1 & R-2 --> TYPE B (15-FT)  
WEST & SOUTH: R-3 --> TYPE B (15-FT)  
EAST: COMMERCIAL --> NONE

LANDSCAPE & TREE PROTECTION REQUIREMENTS:

- MIN. 20% OF TOTAL GROSS AREA TO BE LANDSCAPED  
- MIN. ONE (1) SHADE TREE FOR EACH 1,500 SF OF SITE  
- 50% OF THE TOTAL D.B.H. OF THE PROTECTED TREES SHALL BE EXEMPT FROM REPLACEMENT.  
- IMPERVIOUS IMPROVEMENTS (OR W/IN 5-FT THEREOF) REQUIRE REPLACEMENT OF 50% OF THE TOTAL D.B.H. OF THE PROTECTED TREES.



NOT FOR CONSTRUCTION

NOTE: SOME DETAILS IN THESE DRAWINGS ARE TO BE CONSIDERED TYPICAL AND MAY NOT BE CALLED OUT ON PLANS. CONTRACTOR SHALL BECOME FAMILIAR WITH AND FOLLOW ALL DETAILS DURING CONSTRUCTION IN ALL TYPICAL AREAS.

REGISTERED DESIGN PROFESSIONAL  
NOT FOR CONSTRUCTION  
ASA R. GILLETTE, P.E.  
FLORIDA P.E. NO. 56177

| REV | DATE    | ITEM                             |
|-----|---------|----------------------------------|
| A   | 8/18/20 | DEVELOPMENT REVIEW               |
| B   | 9/3/20  | C.O.F.B. T.R.C. PRE-APP. MEETING |
|     |         |                                  |
|     |         |                                  |
|     |         |                                  |

**GILLETTE & ASSOCIATES, INC.**  
CIVIL, ENVIRONMENTAL, MECHANICAL, & STRUCTURAL ENGINEERING  
CERTIFICATE OF AUTHORIZATION NO. 9332  
ASA R. GILLETTE, P.E. \* FL. PE NO. 56177  
20 S. 4th STREET \* FERNANDINA BEACH, FL 32034  
PHONE: 904-261-8819 \* www.gilletteassociates.com

**COMMERCIAL RETAIL BUILDING  
COMMERCIAL OUTPARCEL**  
S. 14TH ST. & LIME ST.  
FERNANDINA BEACH, FLORIDA

|                                           |
|-------------------------------------------|
| DATE: 09/03/20                            |
| SCALE: 1:30                               |
| DRAWING IS REDUCED IF LESS THAN 22" x 34" |
| GEOMETRY<br>PLAN                          |
| North / Elev Key Sheet                    |
| GE-1                                      |
| Page                                      |

NOT FOR CONSTRUCTION



SMCC PARKING LOT- PHASE 2

CITY OF FERNANDINA BEACH - NASSAU COUNTY, FL

FINAL ENGINEERING PLANS

OWNER:

ST. MICHAEL CATHOLIC CHURCH  
505 BROOME ST,  
FERNANDINA BEACH, FL 32034  
904-261-3472  
CONTACT PERSON: WALT EDWARDS

CIVIL ENGINEER:

ZEV COHEN AND ASSOCIATES  
300 INTERCHANGE BLVD, STE C  
ORMOND BEACH, FL 32174  
386-677-2482  
CONTACT PERSON: KRIS ROWLEY, P.E.  
e-mail: krowley@zevcohen.com

SURVEYOR:

MANZIE AND DRAKE LAND SURVEYING  
117 SOUTH NINTH ST.  
FERNANDINA BEACH, FL 32034  
904-491-5700  
CONTACT: MICHAEL A. MANZIE P.L.S.

ARCHITECT:

MIRANDA ARCHITECTS  
309 1/2 CENTRE ST., SUITE 206  
FERNANDINA BEACH, FL 32034  
904-261-4586  
FAX NUMBER  
CONTACT PERSON: JOSE MIRANDA  
e-mail: jmiranda@mirandaarchitects.com

LANDSCAPE ARCHITECT:

ZEV COHEN AND ASSOCIATES  
300 INTERCHANGE BLVD  
ORMOND BEACH, FL 32174  
386-677-2482  
CONTACT PERSON: JAKE STEHR  
e-mail: jstehr@zevcohen.com

PROJECT DESCRIPTION:

THIS PROJECT INCLUDES THE CONSTRUCTION OF A 40 SPACE PARKING LOT AND ASSOCIATED INFRASTRUCTURE.

SITE INFORMATION:

|                                |                                             |
|--------------------------------|---------------------------------------------|
| SITE ADDRESS:                  | 222N 5TH STREET, FERNANDINA BEACH, FL 32034 |
| PROJECT AREA:                  | .689 AC                                     |
| TAX PARCEL I.D. #:             | 00-00-31-1800-0032-0030                     |
| EXISTING ZONING:               | R-2                                         |
| PROPOSED ZONING:               | R-2                                         |
| EXISTING LAND USE:             | PARKING LOT AND BUILDINGS                   |
| PROPOSED LAND USE:             | PARKING LOT AND BUILDINGS                   |
| EXISTING FUTURE LAND USE:      | MEDIUM DENSITY RESIDENTIAL                  |
| SETBACKS:                      |                                             |
| FRONT:                         | 25 FT                                       |
| SIDE:                          | 10% OF LOT WIDTH                            |
| REAR:                          | 20 FT                                       |
| PERIMETER:                     | 453.13 FT                                   |
| REQUIRED LANDSCAPE BUFFER(S):  | NO BUFFER REQUIRED                          |
|                                | NO BUFFER REQUIRED                          |
|                                | NO BUFFER REQUIRED                          |
| MAXIMUM BUILDING LOT COVERAGE: | 45% OF THE LOT                              |
| MAXIMUM BUILDING HEIGHT        | 35 FT                                       |
| UTILITIES:                     | CITY OF FERNANDINA BEACH                    |

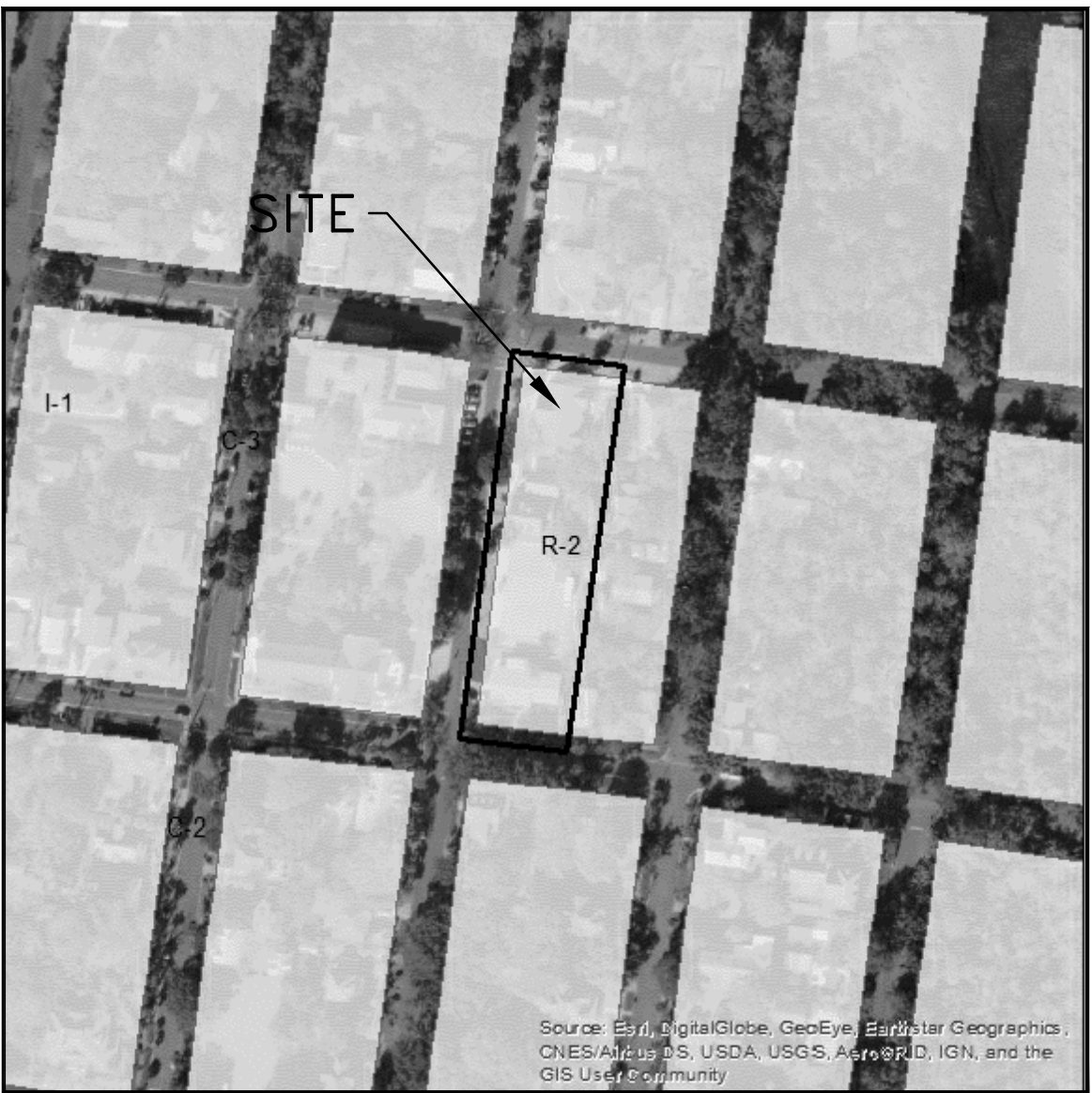
LAND USE TABLE:

|                        | ACREAGE | PERCENTAGE |
|------------------------|---------|------------|
| PROPOSED IMPROVEMENTS: |         |            |
| BUILDING(S)            | .023 AC | 3.33%      |
| PAVEMENT & SIDEWALK    | .310 AC | 45.0%      |
| LANDSCAPE/OPEN SPACE   | .356 AC | 51.7%      |
| TOTAL PERVIOUS         | .356 AC | 51.7%      |
| TOTAL IMPERVIOUS       | .333 AC | 48.3%      |



VICINITY MAP

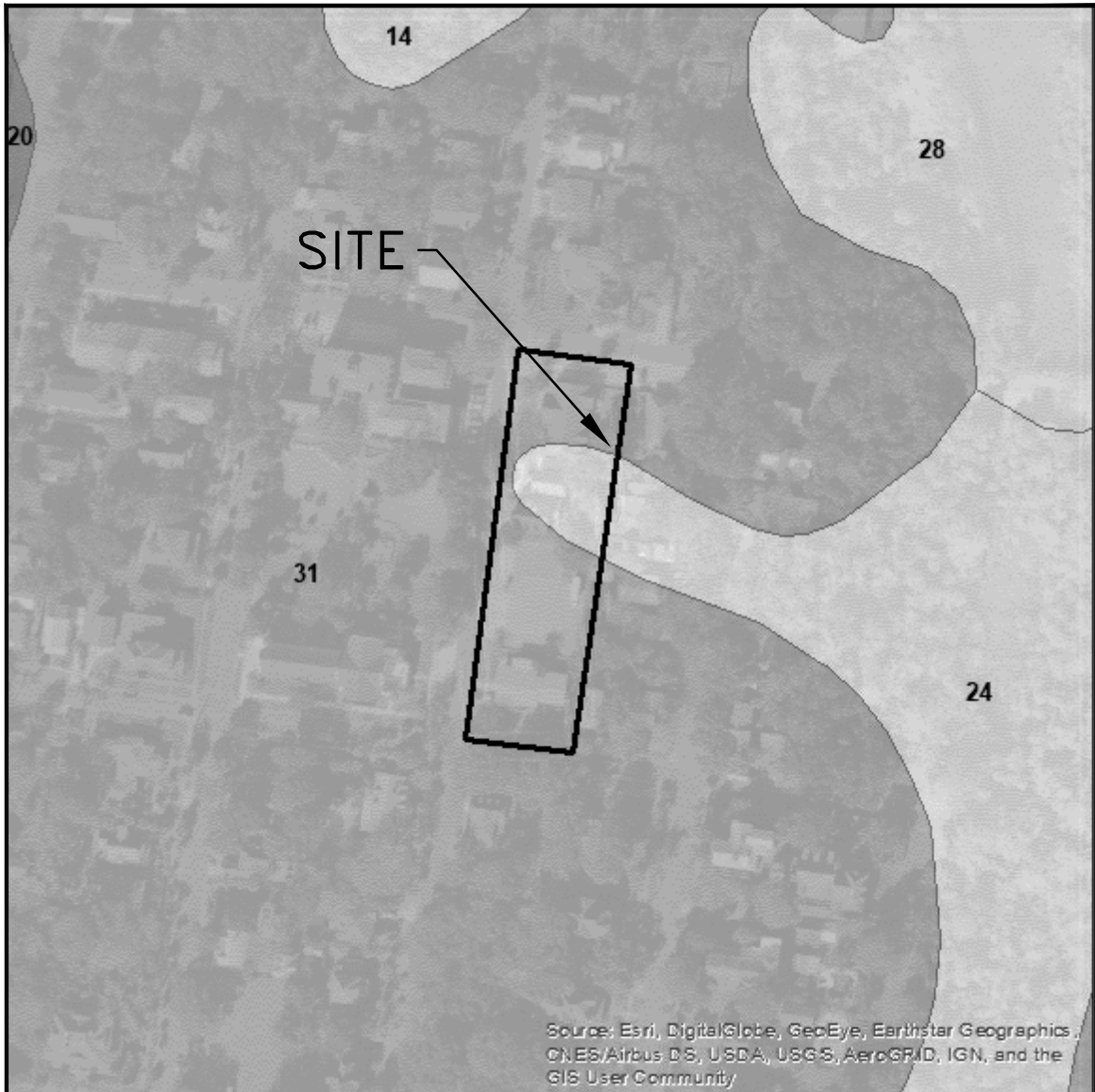
SCALE: 1" = 1000'



ZONING MAP

SCALE: 1" = 200'

CURRENT ZONING FOR THIS SITE IS: R-2



SOILS MAP

SCALE: 1" = 200'

THE SITE LIES WITHIN THE FOLLOWING NASSAU COUNTY SOIL CLASSIFICATIONS:  
17-URBAN LAND; 20 ORTEGA FINE SAND, 0 TO 5 PERCENT SLOPES; 24-KINGSFERRY FINE SAND; 31- KERSHAW FINE SAND, 2 TO 8 PERCENT SLOPES



FLOOD ZONE MAP

SCALE: 1" = 200'

THE PROPERTY LIES IN:  
FLOOD ZONE X PER FEMA MAPS 12089C0237G EFFECTIVE 8/2/2017

SHEET INDEX:

- C1 COVER SHEET
- C2 CONSTRUCTION NOTES
- C3 DEMOLITION & EROSION CONTROL PLAN
- C4 GEOMETRY, SIGNAGE & STRIPING PLAN(S)
- C5 PAVING, GRADING & DRAINAGE PLAN(S)
- C6-C10 CONSTRUCTION DETAILS

- TP1 TREE PROTECTION PLAN
- LA1 LANDSCAPE PLAN

LEGAL DESCRIPTION:

ALL OF THAT CERTAIN LOT, PIECE OR PARCEL OF LAND, LYING AND BEING IN THE CITY OF FERNANDINA BEACH (FORMERLY NAMED FERNANDINA), NASSAU COUNTY, FLORIDA, AS SHOWN ON THE OFFICIAL PLAT OF SAID CITY (AS LITHOGRAPHED AND ISSUED BY THE FLORIDA RAILROAD COMPANY IN 1857 AND ENLARGED, REVISED AND REISSUED BY THE FLORIDA TOWN IMPROVEMENT COMPANY IN 1887 AND 1901) KNOWN AND DESCRIBED AS FOLLOWS:

LOTS 1,2,3,4,5,6,7 & 16, BLOCK 32.



CIVIL ENGINEERING  
LANDSCAPE ARCHITECTURE  
ENVIRONMENTAL  
PLANNING  
TRANSPORTATION

| NO. | DATE     | BY | SUBMITTALS / REVISIONS                        |
|-----|----------|----|-----------------------------------------------|
| 1   | 08-10-20 | KR | RECEIVED PER CITY COMMENTS DATED 07-28-2020   |
| 2   | 08-10-20 | KR | REVISED PER CITY COMMENTS RECEIVED 07-31-2020 |
| 3   | 08-14-20 | TR | REVISED PER ARCHITECT'S COMMENTS              |

SMCC PARKING LOT- PHASE 2  
FINAL ENGINEERING PLANS  
COVER SHEET

|               |                    |
|---------------|--------------------|
| PROJECT NO:   | ZC 68003           |
| DESIGNED BY:  | SHK                |
| DRAFTED BY:   | SHK                |
| CHECKED BY:   | KTR                |
| DRAWING FILE: | 01_68003COV        |
| XREFS:        | 68003BAS, PH2.DWG  |
| XREFS:        | 68003SURV, PH2.DWG |

Randy Hudak

Digitally signed by Randy Hudak  
DN: cn=Randy Hudak,  
ou=A01410000000171609E622000001C05,  
o=Zev Cohen and Associates Inc, c=US  
Date: 2020.08.18 13:37:58-0400

KRISTOPHER ROWLEY, P.E. NO. 84263  
NOT VALID WITHOUT SEAL

SHEET: C1 OF 10

\*\*NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.\*\*



GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY'S LAND DEVELOPMENT CODE REQUIREMENTS, STANDARD CONSTRUCTION DETAILS & STANDARD SPECIFICATIONS, LATEST EDITIONS.
- ALL DRAINAGE STRUCTURES AND OTHER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION.
- SHOP DRAWINGS AND CERTIFICATIONS FOR ALL MATERIALS AND STRUCTURES ARE REQUIRED. THE CONTRACTOR SHALL REVIEW AND SIGN SHOP DRAWINGS. THE CONTRACTOR SHALL SUBMIT REVIEWED SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL REQUIRED PERMITS. THE CONTRACTOR SHALL MAINTAIN COPIES OF ALL RELEVANT PERMITS AND CONSTRUCTION DOCUMENTS AVAILABLE ON THE JOB SITE AT ALL TIMES.
- CONTRACTOR TO MAINTAIN THE SITE IN A SAFE AND SECURE MANNER TO PROTECT PUBLIC SAFETY AND THE CONDITIONS OF THE IMPROVEMENTS.
- THE CONTRACTOR SHALL MAINTAIN, AT THE JOB SITE, A RECORD COPY OF ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS ON WHICH ALL FIELD CHANGES ARE TO BE SHOWN. THESE CHANGES ARE TO BE INCORPORATED IN THE "AS-BUILT" SURVEY FURNISHED TO THE ENGINEER.
- SHOULD CONDITIONS VARY FROM THOSE SHOWN ON THESE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD PRIOR TO CONTINUING CONSTRUCTION.
- ANY FIELD MODIFICATIONS OR DEVIATIONS TO THESE CONSTRUCTION PLANS REQUIRES APPROVAL BY BOTH THE ENGINEER OF RECORD AND THE CITY PRIOR TO PERFORMING THE WORK.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AN "AS-BUILT" SURVEY OF THE COMPLETED CONSTRUCTION. THE "AS-BUILT" SURVEY SHALL BE PREPARED IN ACCORDANCE WITH APPROPRIATE GOVERNMENTAL REGULATIONS AND ZCA REQUIREMENTS. THE "AS-BUILT" SURVEY SHALL BE PREPARED ON ZCA'S DESIGN/PRELIMINARY PLANS. ELECTRONIC AND/OR PAPER COPIES OF THE AS-BUILT SURVEY SHALL BE PROVIDED TO THE ENGINEER OF RECORD. THE "AS-BUILT" SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL LAND SURVEYOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VEHICULAR AND PEDESTRIAN TRAFFIC SAFELY THROUGH THE WORK ZONE AT ALL TIMES. IF APPLICABLE, ANY SIDEWALK, LANE OR ROAD CLOSURE REQUIRES REVIEW AND APPROVAL IN ADVANCE AND A SEVEN (7) DAY MINIMUM NOTICE TO THE JURISDICTIONAL AGENCY/CITY OF FERNANDINA BEACH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REQUIRED COORDINATION.
- MAINTENANCE OF TRAFFIC WILL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS, LATEST EDITIONS.
- CONTRACTOR TO NOTIFY THE REGULATORY AGENCIES FORTY EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL SEND COPIES OF ALL TESTING REPORTS TO THE REGULATORY AGENCIES AND THE ENGINEER OF RECORD.
- SURVEY INFORMATION PROVIDED BY MANZIE & DRAKE LAND SURVEYING DATED 10/01/19. ALL ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) / NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE SHOWN IN FEET. STATE PLANE COORDINATES ARE BASED UPON NAD 88.
- ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. THE CONTRACTOR SHALL EMPLOY A SURVEYOR, REGISTERED IN THE STATE OF FLORIDA, TO REPLACE/RESTORE ANY PROPERTY OR LAND MARKERS DISTURBED BY CONSTRUCTION ACTIVITIES.
- NO LAND SHALL BE CLEARED, EXCAVATED OR FILLED AND NO STRUCTURES SHALL BE ERECTED, REPAIRED OR DEMOLISHED WITHOUT PROPER PERMIT(S).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS AS WELL AS THE REQUIREMENTS OF ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND E.P.A. (NPDES). CONTRACTOR SHALL ESTABLISH BEST MANAGEMENT PRACTICES AND EROSION CONTROL METHODS PRIOR TO COMMENCING ANY SITE CLEARING OR DEMOLITION AND SHALL MAINTAIN THOSE BARRIERS UNTIL FINAL ACCEPTANCE OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROJECT'S NPDES PERMITTING, INSPECTION AND REPORTING, IF APPLICABLE.
- THE EROSION, SEDIMENT AND TURBIDITY CONTROL MEASURES DELINEATED HEREON ARE THE MINIMUM REQUIRED. ADDITIONAL CONTROLS MAY BE NEEDED, DEPENDING UPON THE ACTUAL SITE CONDITIONS. JURISDICTIONAL AGENCY PERMIT REQUIREMENTS AND CONSTRUCTION OPERATIONS. STAKED SILT FENCE SHALL BE UTILIZED TO CONTROL EROSION AND RELEASE OF SUSPENDED SOLIDS. SEDIMENT TRAPPING CONTROL DEVICES SHALL BE USED TO PREVENT THE OFFSITE TRANSPORT OF SEDIMENT BY MOTORIZED VEHICLES. IF CONTROL MEASURES DO NOT PROVE SATISFACTORY, WORK SHALL CEASE UNTIL NEW MEASURES ARE ADOPTED WITH SATISFACTORY RESULTS.
- ALL EROSION AND SEDIMENT TRAPPING CONTROL DEVICES SHALL BE INSPECTED DAILY AND IMMEDIATELY FOLLOWING A RAINFALL EVENT. REF. TO PROJECT'S STORMWATER POLLUTION PREVENT PLAN (SWPP). ANY DEFICIENCIES FOUND IN THE EROSION CONTROL MEASURES SHALL BE REPAIRED IMMEDIATELY. THE CONTRACTOR SHALL KEEP A LOG BOOK DOCUMENTING THESE DAILY INSPECTIONS, DEFICIENCIES AND REMEDIAL ACTIONS.
- ALL UNSUITABLE SOILS AND UNSUITABLE MATERIALS (SUCH AS CLAY, ORGANICS, ROCK, CEMENTED COQUINA, DEBRIS, ETC) SHALL BE REMOVED, DISPOSED OF IN A LEGAL MANNER AND REPLACED WITH DRY COMPACTED GRANULAR MATERIAL SATISFACTORY TO THE CITY. THE COST OF ALL WORK AND MATERIALS IS TO BE INCLUDED IN THE UNIT PRICE OF THE ASSOCIATED CONSTRUCTION ITEMS UNLESS OTHERWISE SHOWN IN THE PLANS.
- IN THE EVENT THAT WATER IS ENCOUNTERED DURING CONSTRUCTION, DOWATERING SHALL BE PERFORMED AS NEEDED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, PERMITTING, INSTALLATION, OPERATION AND SUBSEQUENT REMOVAL OF DOWATERING SYSTEMS AND THEIR SAFETY AND CONFORMITY WITH APPLICABLE CODES AND REGULATIONS.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE ELECTRIC, TELEPHONE, GAS, CABLE, TELEVISION TO THE CITY. THE COST OF ALL WORK AND MATERIALS IS TO BE INCLUDED IN THE UNIT PRICE OF THE ASSOCIATED CONSTRUCTION ITEMS UNLESS OTHERWISE SHOWN IN THE PLANS.
- ALL UNDERGROUND UTILITIES HAVE BEEN LOCATED HORIZONTALLY AND VERTICALLY BASED ON THE BEST INFORMATION AVAILABLE AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL ELEVATIONS OF EXISTING UTILITIES (PUBLIC AND PRIVATE) SHOWN OR NOT SHOWN PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE VARIOUS UTILITY COMPANIES TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION, DISRUPTION OF SERVICE OR CLARIFICATION OF ACTIVITY REGARDING SAID UTILITY. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR CROSSING A UTILITY, WHETHER SHOWN ON THESE PLANS OR FIELD LOCATED. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND NOTIFY THE UTILITY COMPANIES OF ANY SUCH NEARBY UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR ANY REPAIR, RELOCATION OR TEMPORARY MEASURES NEEDED FOR EXISTING OR PROPOSED UTILITIES.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND AVOID ALL UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH ABOVE AND BELOW GROUND. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY PROVIDERS AT LEAST TWO (2) BUSINESS DAYS PRIOR TO ANY CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN UNINTERRUPTED SERVICE AT ALL SERVICE CONNECTIONS. THE MANNER IN WHICH THIS IS ACCOMPLISHED SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS.
- ALL EXISTING DRAINAGE STRUCTURES AND UTILITIES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED IN PLANS.
- ALL STATIONS AND OFFSETS REFER TO CENTERLINE CONSTRUCTION UNLESS OTHERWISE NOTED IN PLANS.
- THE LENGTH OF ALL DRAINAGE PIPES AND LOCATION OF ALL DRAINAGE STRUCTURES ARE APPROXIMATE. THE LOCATION OF THE DRAINAGE STRUCTURE SHALL DETERMINE THE LENGTH OF PIPE.
- THE TOP OF CASTING ELEVATIONS (TO) OF ALL STRUCTURES ARE SHOWN. HOWEVER, THE CONTRACTOR SHALL INSTALL ALL FRAMES SO AS TO PROVIDE A SMOOTH SURFACE FOR VEHICULAR AND/OR PEDESTRIAN TRAFFIC.
- CONTRACTOR SHALL CONFIRM PROPOSED TOP OF CASTING (TO) ELEVATIONS WILL ALLOW POSITIVE DRAINAGE TO PROPOSED INLETS. IF POSITIVE DRAINAGE DOES NOT EXIST, CONTRACTOR TO COORDINATE WITH ENGINEER OF RECORD FOR SOLUTION AND ADJUST PROPOSED INLETS AS NECESSARY.
- CONTRACTOR SHALL CONFIRM ELEVATION OF EXISTING GRADE PRIOR TO PLACING DRAINAGE OUTFALL STRUCTURES. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD IF EXISTING GRADE DOES NOT MATCH PROPOSED OUTFALL INVERT. CONTRACTOR SHALL ADJUST OUTFALL STRUCTURE INVERT AND/OR STRUCTURE LOCATION AS DIRECTED BY ENGINEER OF RECORD.
- ANY DRAINAGE PROBLEMS CREATED BY CONSTRUCTION, OR EXISTING BEFORE CONSTRUCTION AND NOT ALLEVIATED, SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD AT THE TIME OF DISCOVERY.
- ALL STORMWATER PIPES AND INLETS SHALL BE CLEANED OF DEBRIS AND ERODED MATERIALS AT LAST STAGES OF AND PRIOR TO COMPLETION OF CONSTRUCTION.
- SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES MAY EXTEND INTO THE STABILIZED PORTION OF THE ROADBED. EXTREME CAUTION WILL BE NECESSARY DURING COMPACTION AND STABILIZATION OPERATIONS AT THESE LOCATIONS TO AVOID DAMAGE AND ACHIEVE THE REQUIRED COMPACTION.
- DURING CONSTRUCTION, AN ALL-WEATHER ACCESSIBLE ROADWAY SHALL BE MAINTAINED AT ALL TIMES FOR FIRE ACCESS.

GENERAL NOTES

- NONE OF THE EXISTING LIMBEROCK BASE THAT IS REMOVED IS TO BE USED IN THE CONSTRUCTION OF THE NEW LIMBEROCK BASE UNLESS OTHERWISE NOTED ON PLANS.
- EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH WITH THE SAME TYPE OF MATERIAL, UNLESS OTHERWISE SHOWN IN THE PLANS.
- ALL RAMPS, SIDEWALKS AND ACCESSIBLE ROUTES ARE TO BE IN COMPLIANCE WITH CURRENT A.D.A. REQUIREMENTS.
- SIGNS THAT ARE REMOVED AND ARE TO BE RELOCATED SHALL BE STOCK PILLED BY THE CONTRACTOR. IF EXISTING SIGNS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT HIS COST.
- ROADWAY AND PARKING SIGNAGE AND MARKINGS SHALL BE IN CONFORMANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
- GRADES SHOWN ARE FINISHED GRADES.
- OPERATION AND MAINTENANCE OF THE STORMWATER SYSTEM WILL BE PROVIDED BY THE OWNER OF PROPERTY. MAINTENANCE IS TO INCLUDE BI-WEEKLY MOWING OF SIDE SLOPES FOR VEGETATION CONTROL AND MONTHLY INSPECTION/CLEANING OF CULVERTS & STORM SYSTEMS.
- ALL DISTURBED AREAS SHALL BE SODDED, UNLESS OTHERWISE SHOWN, AND SHALL HAVE SOD/VEGETATED COVER ESTABLISHED PRIOR TO THE INSPECTION FOR THE CERTIFICATE OF OCCUPANCY.
- INSTALLATION OF THE REQUIRED STREET SIGNS, TRAFFIC SIGNS, PAVEMENT STRIPING, STREET LIGHTS AND SIDEWALKS ALONG WITH THE PAINTING OF THE FIRE HYDRANTS MUST BE COMPLETED PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF COMPLETION.
- CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND PRE-TESTING PRIOR TO SCHEDULING A TEST OR WALK-THROUGH WITH THE UTILITY REPRESENTATIVES, MUNICIPAL REPRESENTATIVES AND ENGINEER OF RECORD. ANY COST ASSOCIATED WITH RETESTING SHALL BE PAID FOR BY THE CONTRACTOR.
- THE ENGINEER OF RECORD AND LOCAL UTILITY SHALL BE GIVEN SEVENTY-TWO (72) HOURS NOTICE OF ALL REQUESTED MEETINGS AND/OR TESTING MEASURES.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE REGULATORY REPRESENTATIVES TO DETERMINE THE INSPECTIONS NEEDED FOR THE PROJECT. CONTRACTOR SHALL PROVIDE PROPER NOTIFICATION TO INSPECTING AUTHORITIES BEFORE AND DURING CONSTRUCTION.

EROSION & SEDIMENT CONTROL NOTES

- ALL CONSTRUCTION ACTIVITIES SHALL INCORPORATE BEST MANAGEMENT PRACTICES (BMP'S) TO CONTROL EROSION, SEDIMENTATION, AND THE POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
- CONTRACTOR SHALL MAINTAIN RECORDS OF EXISTING VEGETATION, (PARTICULARLY AROUND THE PROJECT PERIMETER) AND ADJACENT EXISTING DRAINAGE PATTERNS TO THE MAXIMUM EXTENT PRACTICAL DURING THE CONSTRUCTION PROCESS.
- SILT FENCES AND TURBIDITY BARRIERS SHALL BE INSTALLED ON SITE AND APPROVED BY THE CITY PRIOR TO CONSTRUCTION, AND SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AND CORRECTIVE ACTION TAKEN AS NECESSARY.
- STORMWATER RETENTION, DETENTION, STORAGE AND CONVEYANCE SYSTEMS MUST BE EXCAVATED TO ROUGH GRADE PRIOR TO CONSTRUCTION. DISTURBED AREAS SHALL BE PROTECTED BY THE AREA SERVED BY THOSE SYSTEMS. ADEQUATE MEASURES MUST BE TAKEN TO PREVENT SILTATION OF THESE TREATMENT SYSTEMS AND CONTROL STRUCTURES DURING CONSTRUCTION. SILTATION MUST BE REMOVED FROM THE STORMWATER SYSTEM WHEN HALF FULL AND IMMEDIATELY PRIOR TO FINAL GRADING AND GRASSING OF THE PROJECT.
- DURING ALL CONSTRUCTION OF THE PERMITTED SYSTEM INCLUDING STABILIZATION AND REVEGETATION OF DISTURBED SURFACES, CONTRACTOR IS RESPONSIBLE FOR THE SELECTION, IMPLEMENTATION, AND OPERATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN ALL SEDIMENT ONSITE AND PREVENT VIOLATIONS OF THE WATER QUALITY STANDARDS IN ACCORDANCE WITH THE FLORIDA ADMINISTRATIVE CODE AND PROJECT PERMIT REQUIREMENTS.
- THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A PROTECTIVE COVER (VEGETATIVE OR SUITABLE ALTERNATIVE) FOR EROSION AND SEDIMENT CONTROL ON ALL LAND SURFACES EXPOSED OR DISTURBED BY CONSTRUCTION OF THE PERMITTED PROJECT, UNLESS MODIFIED BY ANOTHER CONDITION OF THE PERMIT OR OTHERWISE SPECIFIED ON A DISTRICT APPROVED EROSION AND SEDIMENT CONTROL PLAN. THE PROTECTIVE COVER MUST BE INSTALLED WITHIN FOURTEEN (14) DAYS AFTER FINAL GRADING OF THE AFFECTED LAND SURFACE. A PERMANENT VEGETATIVE COVER MUST BE ESTABLISHED WITHIN 60 DAYS OF IT'S INSTALLATION. THE PERMITTEE'S REQUIREMENT TO MAINTAIN COVER ON OFFSITE AND ONSITE SURFACES SHALL NOT BE COMPLETE UNTIL AFTER THE WATER MANAGEMENT DISTRICT RECEIVES THE PERMITTEE'S STATEMENT OF COMPLIANCE.
- AT A MINIMUM, SILT FENCES AND TURBIDITY BARRIERS SHALL BE INSTALLED PER PLAN. ADDITIONAL BMP MEASURES MUST BE TAKEN TO MINIMIZE IMPACTS OF RECEIVING WATERS AS THE USE OF APPROVED BARRIERS AT INLETS, ADDITIONAL SILT FENCING, SILT ANTI-TRACKING DEVICES AND SODDING.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE PROJECT LIMITS IN COMPLIANCE WITH ALL JURISDICTIONAL PERMIT AND CITY REQUIREMENTS.
- ANY TIME THE CONTRACTOR NEEDS TO SUBMIT A NOTICE OF INTENT TO USE A GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES, A COPY OF THE PERMIT SHALL ALSO BE SUBMITTED TO THE CITY ENGINEER OF RECORD.
- THE CONTRACTOR SHALL AS A MINIMUM PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN IN ACCORDANCE WITH FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) GUIDELINES.
- DOWATERING ACTIVITIES SHALL BE APPROVED BY THE CITY BEFORE DISCHARGING INTO THE CITY'S M&S SYSTEM.

TRAFFIC CONTROL NOTES

- CONTRACTOR SHALL PERFORM ALL PROJECT WORK IN ACCORDANCE WITH FDOT DESIGN STANDARDS, LATEST EDITION. NIGHT WORK MAY BE SCHEDULED TO LESSEN TRAFFIC IMPACT & INCONVENIENCE TO GENERAL PUBLIC AND MUST BE APPROVED BY CITY ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL OBTAIN PRIOR APPROVAL OF MAINTENANCE OF TRAFFIC (MOT) PLANS FOR ANY LANE CLOSURES FROM THE CITY TRAFFIC ENGINEERING DIVISION AT LEAST TWO (2) WEEKS IN ADVANCE OF ANY LANE CLOSURE.
- EXISTING SIGNING AND PAVEMENT MARKINGS TO BE MAINTAINED UNLESS SHOWN OTHERWISE IN THESE PLANS.
- TWO (2) WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT ENTIRE LENGTH OF PROJECT.
- THE LAKE EXCAVATION AND BARRIERS SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY DRIVEWAY CLOSURES MAY BE ALLOWED IF SHARED ACCESS IS AVAILABLE OR IF WRITTEN AUTHORIZATION FROM THE PROPERTY OWNER IS PROVIDED TO CITY PRIOR TO COMMENCEMENT OF WORK ACTIVITIES.
- IF A VARIABLE MESSAGE BOARD IS INSTALLED PRIOR TO CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR ADEQUATE NUMBER OF BOARDS AND LOCATIONS, TO BE VERIFIED PRIOR TO COMMENCEMENT OF WORK.
- IF A CHANGE OF GRADE OCCURS AT THE DRIP LINE OF A SPECIMEN TREE, SILT FENCE WILL BE REQUIRED DURING CONSTRUCTION AND RETAINING WALLS MUST BE INSTALLED PRIOR TO FINAL ACCEPTANCE BY THE CITY.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL PROTECTIVE VEGETATION BARRICADES AND EROSION CONTROL STRUCTURES AND MEASURES IN PLACE PRIOR TO THE COMMENCEMENT OF ANY EARTHWORK, INCLUDING PRELIMINARY GRUBBING AND/OR CONSTRUCTION OF TEMPORARY CONSTRUCTION FENCES, SYNTHETIC JUTE BALES, SILT FENCES, AND FLOATING TURBIDITY BARRIERS. FURTHER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL EROSION CONTROL DEVICES THROUGHOUT THE DURATION OF THE ENTIRE PROJECT. MAINTENANCE SHALL INCLUDE PERIODIC INSPECTION AND REMOVAL OF DEBRIS ABUTTING EROSION CONTROL DEVICES IN ACCORDANCE WITH THE CITY'S UTILITY DEPARTMENT STANDARDS.
- PRIOR TO THE INSTALLATION OF ANY FILL MATERIAL ON SUBJECT SITE, SILT FENCE SHALL BE INSTALLED: a. ALONG SUBJECT SITE BOUNDARY AND PROPERTY LINES. b. ALONG ANY EXISTING DRIVEWAYS OR ALLEYS. c. AROUND THE PERIMETER OF EXISTING STORM WATER TREATMENT FACILITIES. d. AT ANY ADDITIONAL AREAS THAT THE CITY DEEMS NECESSARY TO BE PROTECTED FROM POTENTIAL EROSION IMPACTS DURING CONSTRUCTION. THE CONDITIONS SHALL APPLY IN INSTANCES WHERE FILL MATERIAL IS BEING INSTALLED WITHIN 25 FEET OF ANY OF THE ABOVE-MENTIONED LOCATIONS, WHILE THESE ITEMS REPRESENT THE MINIMUM REQUIREMENTS, THE CITY RESERVES THE RIGHT TO IMPOSE ADDITIONAL PROTECTIVE MEASURES, AS DETERMINED DURING ACTUAL SITE VISITS CONDUCTED AS PART OF THE STANDARD REVIEW OF THE SITE-SPECIFIC CLEARING PERMIT AND THROUGHOUT PROJECT CONSTRUCTION.
- WHERE FILL MATERIAL IS INTENDED TO BE INSTALLED ADJACENT TO EXISTING VEGETATION WHICH IS INTENDED TO REMAIN NATURAL, THE CONTRACTOR MAY INSTALL SILT FENCING AS A TREE PROTECTION MEASURE, IN LIEU OF INSTALLING EITHER WOOD BRACING OR ORANGE MESH FENCING. THIS PRACTICE IS ENCOURAGED BY THE CITY, IF THE SILT FENCE FAILS TO PROVIDE ADEQUATE PROTECTION FROM IMPACT DUE TO CONSTRUCTION, THEN ADDITIONAL CONSTRUCTION FENCING OR WOOD BRACING SHALL BE REQUIRED.
- AT A MINIMUM, THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS. GRASS COVERAGE IS TO BE ESTABLISHED WITHIN THIRTY (30) DAYS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGH SCHEDULING, TO MINIMIZE THE DISTURBANCE OF SITE AREAS THAT HAVE BEEN BROUGHT TO THEIR PROPOSED FINAL GRADE, WITHIN TWENTY DAYS OF BRINGING A SUBJECT AREA TO ITS FINAL GRADE. THE CONTRACTOR SHALL INSTALL SEED AND MULCH OR SOD AND WATERING, AS REQUIRED.

SITE CLEARING AND GRADING NOTES (CONT)

- FOR INDIVIDUAL CONSTRUCTION PROJECTS INVOLVING MULTIPLE PHASES, UPON COMPLETION OF EACH PHASE OF THE PROJECT, SEEDING AND MULCHING AND OR/ SODDING IS TO BE PERFORMED PRIOR TO COMMENCING THE NEXT PHASE OF CONSTRUCTION.
- ONCE AN AREA IS SEEDDED OR SODDED, IT MUST BE MAINTAINED, INCLUDING WATERING AND TRIMMING BY THE CONTRACTOR TO ALLOW THE GRASS TO BECOME ESTABLISHED.
- ANY BURNING OF CLEARED MATERIALS MUST BE INSPECTED AND PERMITTED ON A DAILY BASIS THROUGH THE FL FOREST SERVICE.
- ABSOLUTELY NO BURYING OF CLEARED & GRUBBED MATERIALS IS PERMITTED.
- THE REMOVAL OF ALL VEGETATION AND TOPSOIL ON THE FUTURE ROADWAY, PARKING AND BUILDING LOT AREAS IS REQUIRED PRIOR TO THE PLACEMENT OF FILL ON THOSE AREAS. THE TOPSOIL MAY BE TEMPORARILY STOCKPILED AND USED AS TOPSOIL OVER PROPOSED GREEN AREAS SUCH AS PLANT BEDS, SODDED AREAS, AND WHERE TREES ARE TO BE INSTALLED OR RELOCATED. TEMPORARY STOCKPILE SLOPES SHALL NOT EXCEED 4:1 (H:V).
- A SIGNED, DATED, AND SEALED LETTER FROM A SOILS ENGINEER OR THE ENGINEER OF RECORD CERTIFYING THAT THE AREAS TO BE FILLED HAVE BEEN STRIPPED OF ORGANIC MATERIALS, MUST BE SUBMITTED TO THE CITY PRIOR TO FILLING.
- FILL MATERIAL IS TO BE PLACED IN ONE FOOT LIFTS AND COMPACTED TO THE APPROPRIATE DENSITY (98% FOR PAVED AREAS AND 95% FOR BUILDING PADS AND ALL OTHER AREAS AS PER MODIFIED AASHTO T-180).
- DURING SUBDIVISION DEVELOPMENT WHEN FUTURE BUILDING LOTS ARE FILLED AS PART OF THE OVERALL SUBDIVISION IMPROVEMENTS, COMPACTION TEST REPORTS MUST BE PERFORMED ON THESE LOTS AT 300' INTERVALS. THESE TESTS ARE TO BE PERFORMED IN 1' VERTICAL INCREMENTS. THE RESULTS OF THESE TESTS ARE TO BE SUBMITTED TO THE CITY UPON COMPLETION OF THE TESTS.
- IF ANY MUCK OR ANY UNSUITABLE MATERIAL IS DISCOVERED, IT SHALL BE REMOVED AND REPLACED WITH A SUITABLE MATERIAL THAT IS PROPERLY BACKFILLED, COMPACTED AND TESTED USING AASHTO T-180 MODIFIED PROCTOR METHOD.
- STOCKPILING IS NOT GENERALLY PERMITTED BY THE CITY. WHEN ALLOWED, STOCKPILES SHALL NOT EXCEED SIX FEET IN HEIGHT MEASURED FROM THE ORIGINAL GRADE. AT A MINIMUM, STOCK PILES THAT WILL REMAIN IN PLACE IN EXCESS OF FIVE DAYS SHALL BE COVERED OR WATERED TO MINIMIZE THE ADVERSE IMPACT ON ADJACENT PROPERTY OWNERS AT NO ADDITIONAL COST TO THE CITY OR OWNER. SEED AND MULCH IMMEDIATELY UPON PLACEMENT OF THE FINAL LIFT.
- SOILS ARE TO BE STABILIZED BY WATER OR OTHER MEANS DURING CONSTRUCTION. THIS IS INTENDED TO REDUCE SOIL EROSION AND THE IMPACT TO NEIGHBORING COMMUNITIES. ADEQUATE WATERING METHODS SHOULD BE EMPLOYED TO ALLOW DAILY COVERAGE OF THE ENTIRE LIMITS OF ALL AREAS THAT DO NOT HAVE AN ESTABLISHED VEGETATIVE COVER. METHODS TO BE EMPLOYED INCLUDE, BUT ARE NOT LIMITED TO, WATER TRUCKS, PERMANENT IRRIGATION SYSTEMS, TEMPORARY SPRINKLER SYSTEMS OPERATED BY PUMPING UNITS CONNECTED TO WET RETENTION PONDS, WATER CANNONS, TEMPERARY IRRIGATION SYSTEMS MOUNTED AOUT STOCKPILE AREAS, AND OTHER METHODS AS DEEMED NECESSARY BY THE CITY.
- ALL FILL MATERIALS LOCATED BENEATH STRUCTURES AND PAVEMENT SHALL CONSIST OF CLEAN GRANULAR SAND FREE FROM ORGANICS AND OTHER MATERIALS THAT COULD CAUSE SOILS TO COMPACT.
- ALL FILL TO BE PLACED IN LANDSCAPED AREAS SHALL HAVE A PH RANGE BETWEEN 5.5 AND 7.5, BE ORGANIC IN NATURE, FREE OF ROCKS AND DEBRIS, OR MATCH NATIVE EXISTING SOILS.

STORMWATER CONSTRUCTION NOTES

- ALL MATERIALS AND INSTALLATION AND SEDIMENT AND EROSION CONTROL METHODS USED FOR LAND DEVELOPMENT CODE REQUIRED IMPROVEMENTS FOR SUBDIVISIONS AND SITE PLANS SHALL BE IN CONFORMANCE WITH THE CITY, FDEP, FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), AND THE FDOT DESIGN STANDARDS (LATEST EDITION). THE USE OF BEST MANAGEMENT PRACTICES (BMP'S) IS REQUIRED.
- BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION AND SEDIMENT CONTROL SHALL BE PLANNED, DESIGNED AND IMPLEMENTED THROUGHOUT THE SITE DEVELOPMENT ENGINEERING AND CONSTRUCTION PHASES.
- ALL DOWATERING ACTIVITIES EITHER DIRECTLY DISCHARGED OR THAT SUBSEQUENTLY USE THE CITY'S STORMWATER SYSTEM TO CONVEY GROUND OR SURFACE WATER FROM A SITE SHALL REQUIRE A USE PERMIT. A PERMIT SHALL BE REQUIRED PRIOR TO ENGAGING IN ANY DOWATERING ACTIVITIES, OR IN ANY CONSTRUCTION ACTIVITIES. DOWATERING ACTIVITIES INCLUDE THE REMOVAL OF GROUND WATER FROM A CONSTRUCTION SITE, ENCLOSED VAULT, CONCRETE OR TRENCH ALLOWING FOR EROSION OR MAINTENANCE TO BE DONE IN THE DRY, OR ANY ACTIVITY WHICH CHANGES THE IMPERVIOUS AREA OF LAND.
- CONTRACTOR SHALL FOLLOW REQUIRED EROSION AND SEDIMENT CONTROL PRACTICES AND INCLUDE AN EROSION CONTROL PLAN FOR REVIEW AND CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE CITY'S EROSION AND SEDIMENT CONTROL STANDARD DETAILS.
- CONTRACTOR WILL FOLLOW ALL OF THE CITY'S REQUIRED WASTE MANAGEMENT PRACTICES. ALL CONSTRUCTION, RENOVATION, AND DEMOLITION SITES ARE TO BE KEPT CLEAN AND FREE OF REFUSE, DEBRIS, AND LITTER DURING THE CONSTRUCTION OR RENOVATION. LITTER SHALL BE REMOVED IMMEDIATELY. LITTER SHALL NOT BE CONSTRUCTED OR RENOVATED BUILDING SHALL NOT BE ISSUED UNTIL ALL REFUSE AND LITTER CAUSED BY THE CONSTRUCTION OR REMODELING IS REMOVED FROM THE SITE AS PER THE DAYTONA BEACH CODE OF ORDINANCES CHAPTER 28 SECTION 78-5 AND 78-8.
- ALL DEVELOPMENT PLANS SHALL BE CONSISTENT WITH THE CITY OF JACKSONVILLE LAND DEVELOPMENT CODE.
- PIPED STORMWATER SYSTEMS SHALL HAVE A MINIMUM DRAINAGE MAINTENANCE EASEMENT AND ACCESS WIDTH OF 20 FEET, AND MAY BE INCREASED DEPENDING UPON THE SIZE AND DEPTH OF PIPE.
- CONCRETE EROSION CONTROL BMP'S MUST BE PROVIDED WHERE SWALES OR CULVERTS INTERCEPT DRAINAGE DITCHES.
- SOIL EROSION AND SEDIMENT CONTROL BMP MEASURES, SATISFACTORY TO THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, FDEP AND THE CITY, SHALL BE EMPLOYED DURING CONSTRUCTION.
- IN GENERAL, ALL RETENTION/DETENTION SITES MUST BE CONSTRUCTED AND VEGETATED AS NECESSARY ON ALL PROJECTS PRIOR TO ANY ROAD, PARKING LOT, OR BUILDING CON-STRUCTION COMMENCING OR AS CURRENT PERMIT CONDITIONS DICTATE. SEWER AND WATER MAINS MAY BE INSTALLED PRIOR TO RETENTION/DETENTION SITE CONSTRUCTION IF DOWATERING IS NOT REQUIRED. HOWEVER BMP'S FOR EROSION AND SEDIMENT CONTROL WILL BE IMPLEMENTED AS NECESSARY TO PREVENT EROSION AND SEDIMENT CONTROL THAT MAY BE REQUIRED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY AND ALL DOWATERING PERMITS THAT MAY BE REQUIRED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND MAINTAIN A COPY OF THE SWRMD, NPDES, AND ALL OTHER JURISDICTIONAL PERMITS AT THE CONSTRUCTION SITE, AND ABIDE BY ALL CONDITIONS OF THOSE PERMITS.
- LANDSCAPE PLANS SHALL CLEARLY DEPICT THE DESIGN LOCATION OF TEMPORARY AND PERMANENT PLANTINGS RELATIVE TO THE LOCATION OF PUBLIC UTILITIES AND STORMWATER INFRASTRUCTURE IN ORDER TO EVALUATE POTENTIAL CONFLICTS.
- THE MAXIMUM PERMISSIBLE SLOPE OF ANY NEW SITE GRADING IS 1:3 (VERTICAL:HORIZONTAL). THIS LIMIT SHALL BE APPLIED TO ALL AREAS EXCEPT STORMWATER CONVEYANCE AND TREATMENT SYSTEMS WHICH HAVE A MAXIMUM SIDE SLOPE OF 1:4 (EXCEPT BELOW THE WATER TABLE WHERE STEEPER SLOPES ARE PERMISSIBLE).
- ALL SWALES AND DITCHES SHALL HAVE A MAXIMUM PERMITTED FRONT (SIDE) SLOPE NOT STEEPER THAN 1 TO 4. THE MAXIMUM PERMITTED BACK (SIDE) SLOPE, SHALL BE 1:3. PROVIDED THAT A 2' WIDE BERM IS INSTALLED. DESIGN CENTERLINE AND TOP-OF-BANK ELEVATIONS SHALL BE NOTED AT INTERVALS OF 100' AND AT SIGNIFICANT GRADE CHANGES.
- THE CITY MAY REQUEST THAT THE DEVELOPER SUBMIT A REPORT BY A QUALIFIED HYDROLOGIST OR HYDROGEOLOGIST ON THE IMPACT THE WET POND WILL HAVE ON NEIGHBORING WATER TABLE ELEVATIONS BOTH DURING CONSTRUCTION AND AFTER LAKE COMPLETION. THE CITY MAY REQUIRE GROUNDWATER MONITORING DURING CONSTRUCTION.
- DEVELOPMENT PLANS FOR ALL STORMWATER MANAGEMENT SYSTEMS SHALL CONTAIN POP- OFF DATA (OVERFLOW), BOTTOM ELEVATION, NORMAL WATER LEVELS, MEAN ANNUAL SEASONAL HIGH WATER TABLE ELEVATION, TREATMENT VOLUME AND CORRESPONDING ELEVATION, 100 YEAR HIGH WATER LEVELS, AND THE DESIGN TAILWATER ELEVATION (IF APPLICABLE).
- DEPTH OF COVER MEASURED TO THE TOP OF PIPE (INCLUDING THE BELL JOINT) SHALL BE A MINIMUM OF 3 FEET OVER RCP. DEVIATION FROM THIS REQUIREMENT MAY BE ALLOWED BY STRENGTH. IF AN ALTERNATE MATERIAL IS APPROVED, DEPTH RECOMMENDATION.
- ALL STORM DRAINAGE PIPES LOCATED IN ROADWAY RIGHT-OF-WAYS AND ROADWAY EASEMENTS MINIMUM OF FIFTEEN INCH (15") INSIDE DIAMETER OR EQUIVALENT. STORM DRAINAGE PIPES SMALLER THAN 15" ARE PERMITTED ON PRIVATE SITE PLANS PROVIDED THAT MAINTENANCE STORM INLETS, MANHOLES, AND CATCH BASINS SHALL BE FDOT COMPLIANT. EITHER POURED IN PLACE OR PRECAST REINFORCED CONCRETE STRUCTURES SHALL BE REQUIRED AT EACH CHANGE OF PIPE SIZE OR CHANGE IN PIPE DIRECTION. ALL STRUCTURES SHALL BE IN COMPLIANCE WITH ASTM C-478 AND SHALL HAVE 6" THICK WALLS. THINNER WALLS MAY BE PERMITTED PROVIDING THAT THE DESIGN IS IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 201 AND NO. 201. IN ADDITION, THIS REQUIREMENT MUST BE REFLECTED ON BOTH THE SHOP DRAWING AND AS-BUILT.
- CONSTRUCTION IN ACCORDANCE WITH FDOT STANDARDS.
- STORM INLETS SHALL BE SPACED IN SUCH A MANNER AS TO ACCEPT ONE HUNDRED (100) PERCENT OF THE DESIGN STORM RUNOFF WITHOUT IMPEDING THE FLOW OF TRAFFIC. FOR ROADWAY SECTIONS WITH DESIGN SPEEDS OF 45 MPH AND LESS AND WITHOUT FULL WIDTH SHOULDERS, SPREAD RESULTING FROM A RAINFALL INTENSITY OF FOUR INCHES (4") PER HOUR INLET SPACING SHALL BE DESIGNED TO ACCEPT ONE HUNDRED (100) PERCENT OF THE RUNOFF FROM A RAINFALL INTENSITY OF FOUR INCHES (4") PER HOUR WITHOUT RESULTING IN PONDING OF WATER AROUND THE INLET.
- FOR CONNECTIONS BETWEEN INLETS WITH PIPING 15" IN DIAMETER AND LARGER, THE MAXIMUM DISTANCES BETWEEN INLETS AND / OR CLEAN-OUT JUNCTION BOXES SHALL BE 300 FEET. CULVERTS SHALL BE SLOPED TO MAINTAIN A MINIMUM SELF-CLEANING VELOCITY OF 2.5 FEET PER SECOND USING A MANNING'S 'N' OF 0.012.
- ALL CLEAN-OUTS AND INLETS FOR SMALLER PIPING SHALL BE REDUCED AND EVALUATED ON A CASE BY CASE BASIS.
- STORMWATER INLETS SHALL MEET FDOT CRITERIA IN THE FDOT DESIGN STANDARD LATEST EDITION.
- WHERE A COVER SHALL BE TESTED FOR CONTINUITY UNDER SUPERVISION BY CITY REPRESENTATIVE AFTER INSTALLATION.
- ALL GASKETS SHALL BE LUBRICATED BEFORE BEING INSTALLED.
- ALL FITTINGS SHALL MEET THE MINIMUM RESTRAINED REQUIREMENTS PER ANSI/AWWA/DIPRA, AND ALL PRESSURE PIPES UNDER THE ROADWAY SHALL BE RESTRAINED.

ROADWAY CONSTRUCTION NOTES

- ALL MATERIALS AND INSTALLATION METHODS USED FOR LAND DEVELOPMENT CODE REQUIRED IMPROVEMENTS FOR SUBDIVISIONS AND SITE PLANS SHALL BE IN CONFORMANCE WITH THE CITY'S DESIGN STANDARDS, FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), AND THE FDOT DESIGN STANDARDS (LATEST EDITION).
- ALL RIGHT-OF-WAY OTHER THAN ROADWAY AREAS SHALL BE GRASSSED AND MULCHED OR SODDED. ALL SLOPES STEEPER THAN 6:1 SHALL REQUIRE SODDING. THE CITY RESERVES THE RIGHT TO REQUIRE SODDING IN SPECIAL AREAS WHERE EROSION IS A CONCERN.
  - THE FOLLOWING WILL BE THE STANDARD PROTECTION FOR DITCHES UNLESS DRAINAGE CALCULATIONS INDICATE OTHERWISE:  

SWALE PROFILE GRADES  
0.2% - 1.0%  
1.0% - 4.0%  
4.0% AND GREATER

PROTECTION REQUIRED  
GRASSING AND MULCHING  
SODDING  
DITCH PAVING
  - THE PAVEMENT, BASE, AND SUBBASE THICKNESS PRESENTED ON DETAILS REPRESENTS THE MINIMUM REQUIREMENTS FOR LOCAL PUBLIC STREETS AND PRIVATE PARKING LOTS. THE CITY RESERVES THE RIGHT AT ITS DISCRETION TO INCREASE THESE REQUIREMENTS FOR COLLECTOR AND ARTERIAL ROADWAYS AND PRIVATE PARKING LOTS SUBJECT TO THE CITY'S MINIMUM STANDARDS. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO ENSURE THAT COPIES OF ALL TEST REPORTS ARE PROVIDED TO THE CITY'S DESIGNATED SITE INSPECTOR PRIOR TO THE PROJECT FINAL INSPECTION IN ORDER TO ALLOW PROJECT ACCEPTANCE BY THE CITY.
  - THE LIMITS OF STABILIZED SUBBASE SHALL EXTEND TO A DEPTH OF TWELVE INCHES (12") BELOW THE BOTTOM OF THE BASE AND OUTWARD TO TWO INCHES (2") BEYOND THE CURB.
  - THE STABILIZING MATERIAL SHALL BE A HIGH BEARING VALUE SOIL, SAND-CLAY, LIMESOCK, RECYCLED CONCRETE, SHELL, OR OTHER MATERIAL AS APPROVED BY THE CITY'S ENGINEER OR DESIGNEE AND A LICENSED SOILS ENGINEER.
  - COMPACTION, STABILITY AND DENSITY TESTING FOR PAVEMENT, BASE AND SUB-BASE ARE TO BE DONE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROADWAY & BRIDGE CONSTRUCTION, LATEST EDITION.
  - FOR ROADWAYS, TESTS FOR SUBBASE BEARING CAPACITY AND COMPACTION SHALL BE DONE AT A MINIMUM OF EVERY 300 FEET AND SHALL BE STAGGERED TO THE LEFT, RIGHT, AND AT CENTER LINE OF THE ROADWAY. FOR SITE PLANS, TEST SHALL BE PERFORMED FOR EVERY 600 SQUARE YARDS OF STABILIZED AREA, OR PORTIONS THEREOF.
  - CEMENT DELIVERY TICKETS SHALL BE PROVIDED TO THE CITY'S DESIGNATED SITE INSPECTOR AT THE TIME OF PLACEMENT. IF THE INSPECTOR IS NOT ON SITE THROUGHOUT THE ENTIRE INSTALLATION, ACCUMULATED DELIVERY TICKETS CAN BE PROVIDED TO THE INSPECTOR BY THE CONTRACTOR ON THE FOLLOWING DAY.
  - TESTING OF THE IN-PLACE BASE SHALL BE DONE AT INTERVALS EQUIVALENT TO SUBGRADE TESTING AND SHALL CONSIST OF: AS A MINIMUM, A MOISTURE CONTENT AND COMPACTION TEST.
  - PORTLAND CEMENT CONCRETE, LIMBEROCK, RECYCLED CONCRETE, OR FULL DEPTH ASPHALT PAVEMENT MAY BE USED IN PLACE OF SOIL CEMENT BASE. ALL BASE AND ROADWAY DESIGNS SHALL BE SUBJECT TO THE APPROVAL OF THE CITY.
  - RECYCLED CONCRETE CAN BE USED AS A BASE MATERIAL PROVIDED THE MATERIAL IS A MINIMUM OF 60% CARBONATE OF CALCIUM AND MAGNESIUM. THE MATERIAL SHALL BE LIMITED TO MAXIMUM OF 3% OF WATER SENSITIVE CLAY MATERIAL, LIQUID LIMIT SHALL NOT EXCEED 35 AND BE NON-PLASTIC, AND THE PLASTICITY INDEX SHALL NOT EXCEED 10. THE MATERIAL SHALL NOT CONTAIN ORGANIC MATERIAL, CHERTY OR OTHER EXTREMELY HARD PIECES, LUMINOUS MATERIAL, OR OTHER MATERIALS THAT MAY BE DETRIMENTAL TO THE PROPER BONDING, FINISHING, OR STRENGTH OF THE RECYCLED CONCRETE BASE. FOR BASE APPLICATIONS, AT LEAST 97% (BY WEIGHT) OF THE MATERIAL SHALL PASS A 1" SIEVE AND FOR SUBBASE APPLICATIONS, AT LEAST 97% (BY WEIGHT) OF THE MATERIAL SHALL PASS A 1-1/2" SIEVE. FOR BOTH APPLICATIONS, THE MATERIAL SHALL BE COVERED PRIMARILY DUE TO DUST AND THE MINIMUM UBR VALUES ARE TO BE NOT LESS THAN 120. COARSE AGGREGATE USED IN THE RECYCLED CONCRETE SHALL HAVE A MAXIMUM LOSS OF 45% PER LOS ANGELES ABRASION TEST. ALL MATERIALS SHALL BE WELL GRADED IN ACCORDANCE WITH REQUIREMENTS SET FORTH IN SECTION 204, F.D.O.T., STANDARD SPEC. FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).
  - RECYCLED CONCRETE OR TRENCH ALLOWING FOR EROSION OR MAINTENANCE TO BE DONE IN THE DRY, OR ANY ACTIVITY WHICH CHANGES THE IMPERVIOUS AREA OF LAND.
  - CONTRACTOR SHALL FOLLOW REQUIRED EROSION AND SEDIMENT CONTROL PRACTICES AND INCLUDE AN EROSION CONTROL PLAN FOR REVIEW AND CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
  - CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE CITY'S EROSION AND SEDIMENT CONTROL STANDARD DETAILS.
  - CONTRACTOR WILL FOLLOW ALL OF THE CITY'S REQUIRED WASTE MANAGEMENT PRACTICES. ALL CONSTRUCTION, RENOVATION, AND DEMOLITION SITES ARE TO BE KEPT CLEAN AND FREE OF REFUSE, DEBRIS, AND LITTER DURING THE CONSTRUCTION OR RENOVATION. LITTER SHALL BE REMOVED IMMEDIATELY. LITTER SHALL NOT BE CONSTRUCTED OR RENOVATED BUILDING SHALL NOT BE ISSUED UNTIL ALL REFUSE AND LITTER CAUSED BY THE CONSTRUCTION OR REMODELING IS REMOVED FROM THE SITE AS PER THE DAYTONA BEACH CODE OF ORDINANCES CHAPTER 28 SECTION 78-5 AND 78-8.
  - ALL DEVELOPMENT PLANS SHALL BE CONSISTENT WITH THE CITY OF JACKSONVILLE LAND DEVELOPMENT CODE.
  - PIPED STORMWATER SYSTEMS SHALL HAVE A MINIMUM DRAINAGE MAINTENANCE EASEMENT AND ACCESS WIDTH OF 20 FEET, AND MAY BE INCREASED DEPENDING UPON THE SIZE AND DEPTH OF PIPE.
  - CONCRETE EROSION CONTROL BMP'S MUST BE PROVIDED WHERE SWALES OR CULVERTS INTERCEPT DRAINAGE DITCHES.
  - SOIL EROSION AND SEDIMENT CONTROL BMP MEASURES, SATISFACTORY TO THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, FDEP AND THE CITY, SHALL BE EMPLOYED DURING CONSTRUCTION.
  - IN GENERAL, ALL RETENTION/DETENTION SITES MUST BE CONSTRUCTED AND VEGETATED AS NECESSARY ON ALL PROJECTS PRIOR TO ANY ROAD, PARKING LOT, OR BUILDING CON-STRUCTION COMMENCING OR AS CURRENT PERMIT CONDITIONS DICTATE. SEWER AND WATER MAINS MAY BE INSTALLED PRIOR TO RETENTION/DETENTION SITE CONSTRUCTION IF DOWATERING IS NOT REQUIRED. HOWEVER BMP'S FOR EROSION AND SEDIMENT CONTROL WILL BE IMPLEMENTED AS NECESSARY TO PREVENT EROSION AND SEDIMENT CONTROL THAT MAY BE REQUIRED.
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY AND ALL DOWATERING PERMITS THAT MAY BE REQUIRED.
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND MAINTAIN A COPY OF THE SWRMD, NPDES, AND ALL OTHER JURISDICTIONAL PERMITS AT THE CONSTRUCTION SITE, AND ABIDE BY ALL CONDITIONS OF THOSE PERMITS.
  - LANDSCAPE PLANS SHALL CLEARLY DEPICT THE DESIGN LOCATION OF TEMPORARY AND PERMANENT PLANTINGS RELATIVE TO THE LOCATION OF PUBLIC UTILITIES AND STORMWATER INFRASTRUCTURE IN ORDER TO EVALUATE POTENTIAL CONFLICTS.
  - THE MAXIMUM PERMISSIBLE SLOPE OF ANY NEW SITE GRADING IS 1:3 (VERTICAL:HORIZONTAL). THIS LIMIT SHALL BE APPLIED TO ALL AREAS EXCEPT STORMWATER CONVEYANCE AND TREATMENT SYSTEMS WHICH HAVE A MAXIMUM SIDE SLOPE OF 1:4 (EXCEPT BELOW THE WATER TABLE WHERE STEEPER SLOPES ARE PERMISSIBLE).
  - ALL SWALES AND DITCHES SHALL HAVE A MAXIMUM PERMITTED FRONT (SIDE) SLOPE NOT STEEPER THAN 1 TO 4. THE MAXIMUM PERMITTED BACK (SIDE) SLOPE, SHALL BE 1:3. PROVIDED THAT A 2' WIDE BERM IS INSTALLED. DESIGN CENTERLINE AND TOP-OF-BANK ELEVATIONS SHALL BE NOTED AT INTERVALS OF 100' AND AT SIGNIFICANT GRADE CHANGES.
  - THE CITY MAY REQUEST THAT THE DEVELOPER SUBMIT A REPORT BY A QUALIFIED HYDROLOGIST OR HYDROGEOLOGIST ON THE IMPACT THE WET POND WILL HAVE ON NEIGHBORING WATER TABLE ELEVATIONS BOTH DURING CONSTRUCTION AND AFTER LAKE COMPLETION. THE CITY MAY REQUIRE GROUNDWATER MONITORING DURING CONSTRUCTION.
  - DEVELOPMENT PLANS FOR ALL STORMWATER MANAGEMENT SYSTEMS SHALL CONTAIN POP- OFF DATA (OVERFLOW), BOTTOM ELEVATION, NORMAL WATER LEVELS, MEAN ANNUAL SEASONAL HIGH WATER TABLE ELEVATION, TREATMENT VOLUME AND CORRESPONDING ELEVATION, 100 YEAR HIGH WATER LEVELS, AND THE DESIGN TAILWATER ELEVATION (IF APPLICABLE).
  - DEPTH OF COVER MEASURED TO THE TOP OF PIPE (INCLUDING THE BELL JOINT) SHALL BE A MINIMUM OF 3 FEET OVER RCP. DEVIATION FROM THIS REQUIREMENT MAY BE ALLOWED BY STRENGTH. IF AN ALTERNATE MATERIAL IS APPROVED, DEPTH RECOMMENDATION.
  - ALL STORM DRAINAGE PIPES LOCATED IN ROADWAY RIGHT-OF-WAYS AND ROADWAY EASEMENTS MINIMUM OF FIFTEEN INCH (15") INSIDE DIAMETER OR EQUIVALENT. STORM DRAINAGE PIPES SMALLER THAN 15" ARE PERMITTED ON PRIVATE SITE PLANS PROVIDED THAT MAINTENANCE STORM INLETS, MANHOLES, AND CATCH BASINS SHALL BE FDOT COMPLIANT. EITHER POURED IN PLACE OR PRECAST REINFORCED CONCRETE STRUCTURES SHALL BE REQUIRED AT EACH CHANGE OF PIPE SIZE OR CHANGE IN PIPE DIRECTION. ALL STRUCTURES SHALL BE IN COMPLIANCE WITH ASTM C-478 AND SHALL HAVE 6" THICK WALLS. THINNER WALLS MAY BE PERMITTED PROVIDING THAT THE DESIGN IS IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 201 AND NO. 201. IN ADDITION, THIS REQUIREMENT MUST BE REFLECTED ON BOTH THE SHOP DRAWING AND AS-BUILT.
  - CONSTRUCTION IN ACCORDANCE WITH FDOT STANDARDS.
  - STORM INLETS SHALL BE SPACED IN SUCH A MANNER AS TO ACCEPT ONE HUNDRED (100) PERCENT OF THE DESIGN STORM RUNOFF WITHOUT IMPEDING THE FLOW OF TRAFFIC. FOR ROADWAY SECTIONS WITH DESIGN SPEEDS OF 45 MPH AND LESS AND WITHOUT FULL WIDTH SHOULDERS, SPREAD RESULTING FROM A RAINFALL INTENSITY OF FOUR INCHES (4") PER HOUR INLET SPACING SHALL BE DESIGNED TO ACCEPT ONE HUNDRED (100) PERCENT OF THE RUNOFF FROM A RAINFALL INTENSITY OF FOUR INCHES (4") PER HOUR WITHOUT RESULTING IN PONDING OF WATER AROUND THE INLET.
  - FOR CONNECTIONS BETWEEN INLETS WITH PIPING 15" IN DIAMETER AND LARGER, THE MAXIMUM DISTANCES BETWEEN INLETS AND / OR CLEAN-OUT JUNCTION BOXES SHALL BE 300 FEET. CULVERTS SHALL BE SLOPED TO MAINTAIN A MINIMUM SELF-CLEANING VELOCITY OF 2.5 FEET PER SECOND USING A MANNING'S 'N' OF 0.012.
  - ALL CLEAN-OUTS AND INLETS FOR SMALLER PIPING SHALL BE REDUCED AND EVALUATED ON A CASE BY CASE BASIS.
  - STORMWATER INLETS SHALL MEET FDOT CRITERIA IN THE FDOT DESIGN STANDARD LATEST EDITION.
  - WHERE A COVER SHALL BE TESTED FOR CONTINUITY UNDER SUPERVISION BY CITY REPRESENTATIVE AFTER INSTALLATION.
  - ALL GASKETS SHALL BE LUBRICATED BEFORE BEING INSTALLED.
  - ALL FITTINGS SHALL MEET THE MINIMUM RESTRAINED REQUIREMENTS PER ANSI/AWWA/DIPRA, AND ALL PRESSURE PIPES UNDER THE ROADWAY SHALL BE RESTRAINED.
- A-HIGH VOLTAGE UTILITIES SUCH AS PHONE (FEEDER, SERVICE, AND DROPS) SHALL BE BURIED A MINIMUM OF 30 INCHES IN DEPTH.
- B-LOW VOLTAGE UTILITIES SUCH AS PHONE AND CABLE TV SHALL BE BURIED A MINIMUM OF 18 INCHES IN DEPTH OR FEEDER AND SERVICES. SERVICE DROPS SHALL BE BURIED A MINIMUM OF 12 INCHES IN DEPTH.
- C- IN NO INSTANCE SHALL THE DEPTH OF COVER BE LESS THAN 36" FROM FINISHED GRADE TO THE TOP OF PIPE FOR POTABLE WATER MAINS, SANITARY SEWER MAINS, AND RECLAIMED WATER MAINS. HOWEVER, IN THE EVENT THAT MAINS ARE LOCATED DEEPER THAN THE TYPE OF WORK BEING PERFORMED, THE CITY ENGINEER SHALL BE NOTIFIED. IN THE EVENT OF A CONFLICT DURING THE CONSTRUCTION PROCESS, DUCTILE IRON PRESSURE CLASS 350 OR CONCRETE ENCASEMENT MAY BE USED AS APPROVED BY THE CITY PUBLIC UTILITIES DEPARTMENT.
37. LANDSCAPE PLANS SHALL CLEARLY DEPICT THE DESIGN LOCATION OF PLANTINGS RELATIVE TO THE LOCATION OF UNDERGROUND AND OVERHEAD PUBLIC UTILITIES AND STORMWATER INFRASTRUCTURE IN ORDER TO ELIMINATE ANY POTENTIAL CONFLICTS.

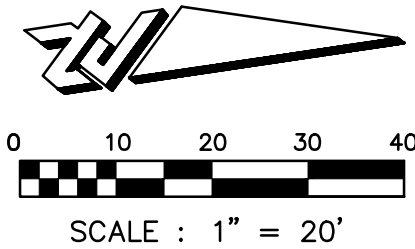
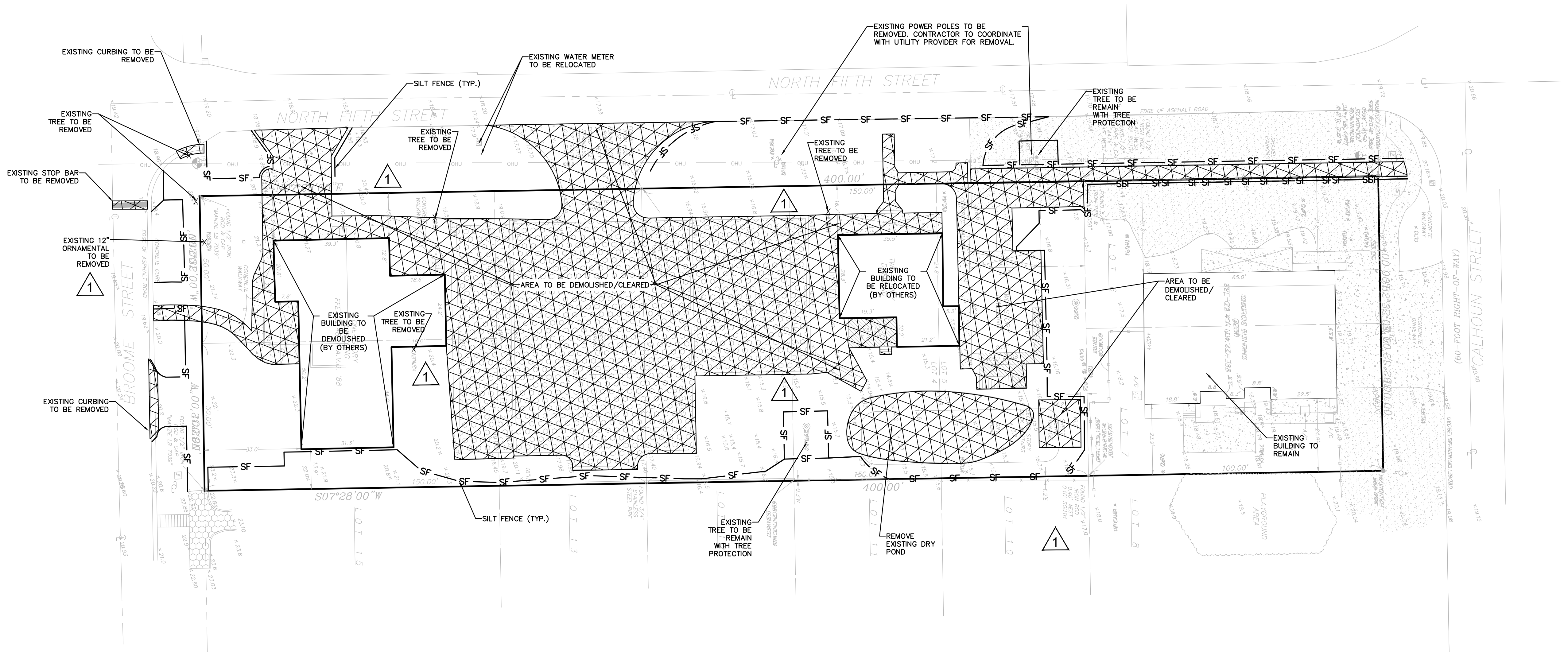


CIVIL ENGINEERING  
LANDSCAPE ARCHITECTURE  
ENVIRONMENTAL  
PLANNING  
TRANSPORTATION

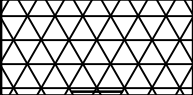
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|-----|------------|-----|---------------------------------|----------------|
| 1   | 08-10-2020 | KTR | REVISED PER CITY COMMENTS       | 07-27-2020     |
| 2   | 08-14-2020 | KTR | REVISED PER ARCHITECTS COMMENTS | 07-13-2020     |



R. 18003 ST. MICHAEL PARISH OFFICE FINAL ENGINEERING PLANS\ADMIN\PHASE 2 - PARKING AREA\03\_68003ECP\_PH2.DWG - PRINTED: 8/17/2020 4:44 PM



LEGEND:

- SF — PROPOSED SILT FENCE
-  PROPOSED DEMOLITION / CLEARING AREA

- NOTES:
1. CONTRACTOR SHALL PROVIDE SIDEWALK CLOSURE SIGNS AS NEEDED FOR CONSTRUCTION.
  2. ALL ELECTRICAL SERVICE LINES SHALL BE ROUTED UNDERGROUND CONTRACTOR TO COORDINATE WITH APPROPRIATE UTILITY PROVIDERS.



CIVIL ENGINEERING  
LANDSCAPE ARCHITECTURE  
ENVIRONMENTAL  
PLANNING  
TRANSPORTATION

| NO. | DATE     | BY | SUBMITTALS / REVISIONS                     |
|-----|----------|----|--------------------------------------------|
| 1   | 06-10-20 | KR | REVISED PER CITY COMMENTS DATED 07-28-2020 |
| 2   | 08-14-20 | TR | REVISED PER ARCHITECT'S COMMENTS           |

SMCC PARKING LOT - PHASE 2  
FINAL ENGINEERING PLANS  
DEMOLITION & EROSION  
CONTROL PLAN

CITY OF FERNANDINA BEACH  
NASSAU COUNTY, FLORIDA

|               |                   |
|---------------|-------------------|
| PROJECT NO.:  | ZC 68003          |
| DESIGNED BY:  | SHK               |
| DRAFTED BY:   | SHK               |
| CHECKED BY:   | KTR               |
| DRAWING FILE: | 03_68003ECP_PH2   |
| XREFS:        | 68003BAS_PH2.DWG  |
| XREFS:        | 68003SURV_PH2.DWG |

Randy Hudak

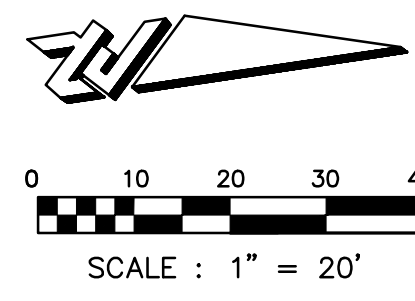
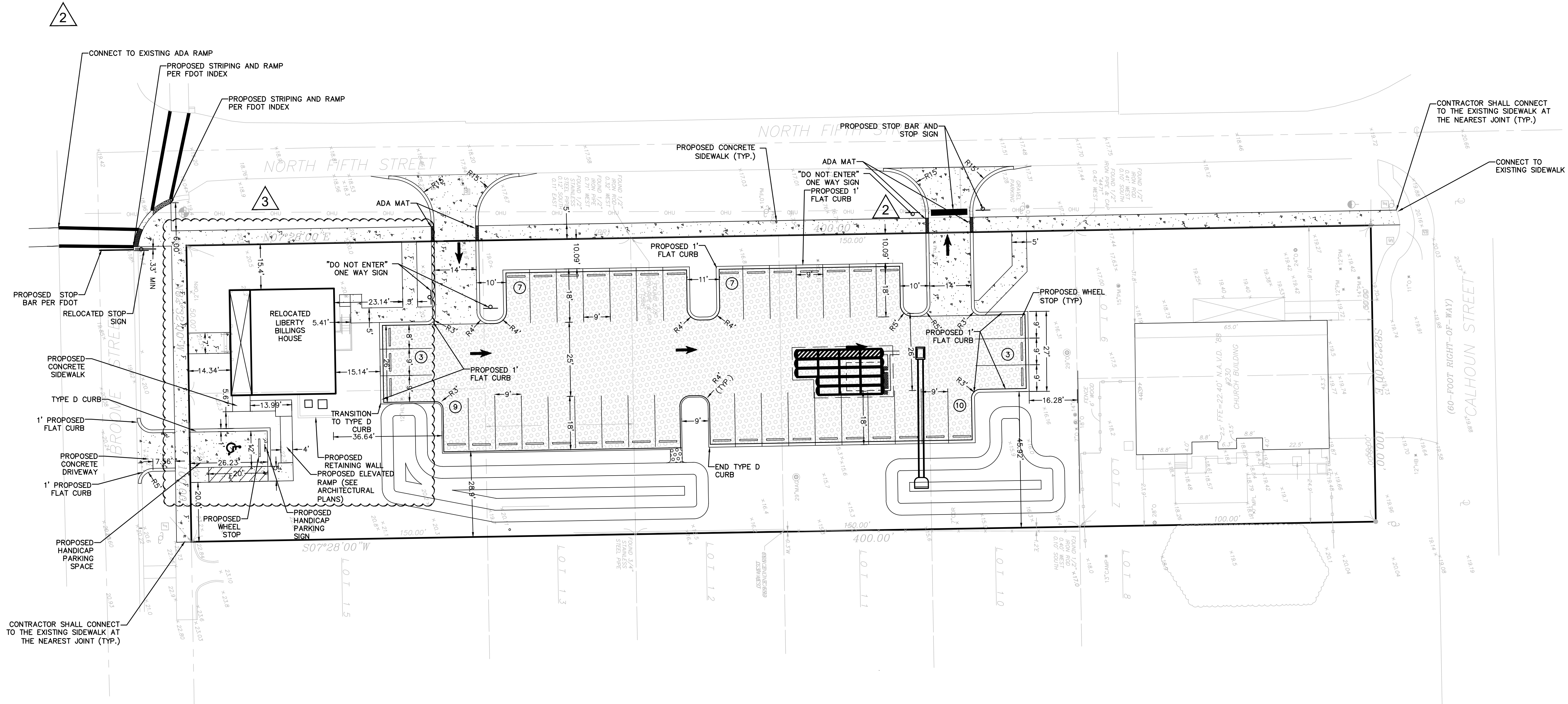
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DN: cn=Randy Hudak,  
ou=ZEV COHEN & ASSOCIATES, INC., c=US,  
email=ZEV@ZEVCOHEN.COM, o=ZEV COHEN & ASSOCIATES, INC., ou=ZEV COHEN & ASSOCIATES, INC., c=US,  
date=2020.08.18.13:38:52-04'00'

KRISTOPHER ROWLEY, P.E. NO. 84263  
NOT VALID WITHOUT SEAL

SHEET: C3 OF 10



R:\68003 ST. MICHAEL PARISH OFFICE\FINAL ENGINEERING PLANS\68003SS PH2.DWG - PRINTED 8/17/2020 4:44 PM



LEGEND:

- PROPOSED PAVERS
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED PARKING COUNT
- PROPOSED HANDICAP PARKING SPACE
- PROPOSED STREET LIGHT

- NOTES:
1. ALL HANDICAP RAMPS ARE TO BE CONSTRUCTED PER FDOT INDEX NO. 522-002, LATEST EDITION.
  2. SIDEWALKS ALONG BROOME ST. AND NORTH 5TH ST. TO BE STAMPED WITH HEXAGONAL PATTERN.
  3. ALL CROSSWALKS TO BE THERMOPLASTIC STRIPING.



CIVIL ENGINEERING  
LANDSCAPE ARCHITECTURE  
ENVIRONMENTAL  
PLANNING  
TRANSPORTATION

| NO. | DATE     | BY | REVISIONS                                      |
|-----|----------|----|------------------------------------------------|
| 1   | 08-10-20 | KR | REVISIONS DATED 07-28-2020                     |
| 2   | 08-10-20 | KR | REVISED PER CITY COMMENTS, RECEIVED 07-31-2020 |
| 3   | 08-14-20 | TR | REVISED PER ARCHITECT'S COMMENTS               |

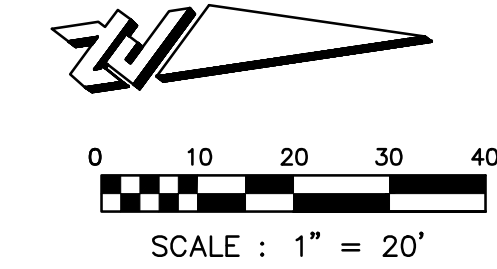
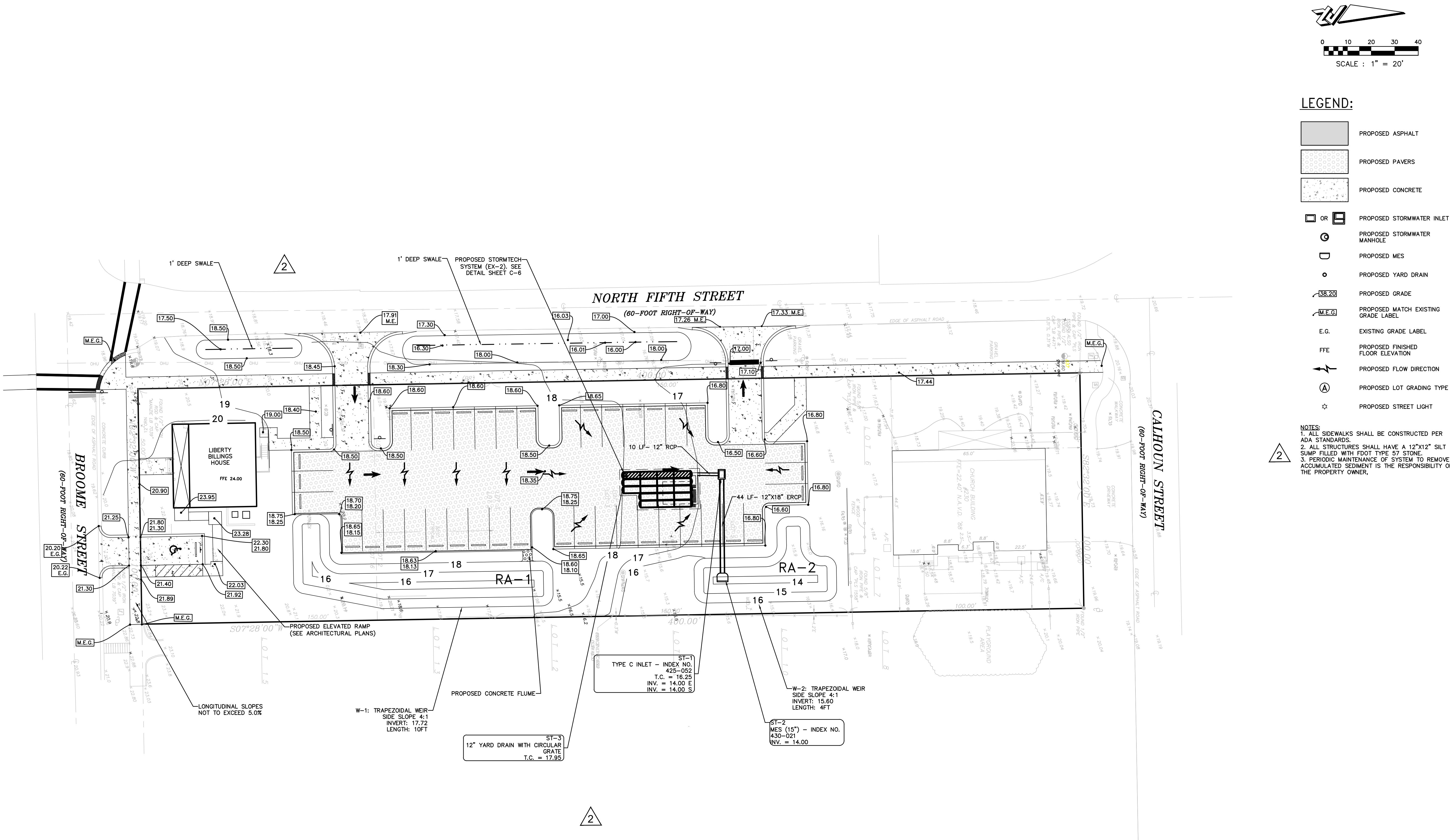
SMCC PARKING LOT - PHASE 2  
FINAL ENGINEERING PLANS  
GEOMETRY, STRIPING &  
SIGNAGE PLAN

PROJECT NO.: ZC 68003  
DESIGNED BY: SHK  
DRAFTED BY: SHK  
CHECKED BY: KTR  
DRAWING FILE: 04\_68003GSS\_PH2  
XREFS: 68003BAS\_PH2.DWG  
XREFS: 68003SURV\_PH2.DWG

Randy Hudak  
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o=Zev Cohen and Associates Inc., c=US  
Date: 2020.08.18 13:39:09-04'00'



R. 180003 ST. MICHAEL PARISH OFFICE FINAL ENGINEERING PLANS\ADMIN\PHASE 2 - PARKING AREA\06 68003PGD PH2.DWG - PRINTED: 8/17/2020 4:45 PM



LEGEND:

- PROPOSED ASPHALT
- PROPOSED PAVERS
- PROPOSED CONCRETE
- PROPOSED STORMWATER INLET
- PROPOSED STORMWATER MANHOLE
- PROPOSED MES
- PROPOSED YARD DRAIN
- PROPOSED GRADE
- PROPOSED MATCH EXISTING GRADE LABEL
- EXISTING GRADE LABEL
- PROPOSED FINISHED FLOOR ELEVATION
- PROPOSED FLOW DIRECTION
- PROPOSED LOT GRADING TYPE
- PROPOSED STREET LIGHT

NOTES:  
1. ALL SIDEWALKS SHALL BE CONSTRUCTED PER ADA STANDARDS.  
2. ALL STRUCTURES SHALL HAVE A 12"x12" SILT SUMP FILLED WITH FDOT TYPE 57 STONE.  
3. PERIODIC MAINTENANCE OF SYSTEM TO REMOVE ACCUMULATED SEDIMENT IS THE RESPONSIBILITY OF THE PROPERTY OWNER.



CIVIL ENGINEERING  
LANDSCAPE ARCHITECTURE  
ENVIRONMENTAL  
PLANNING  
TRANSPORTATION

| NO. | DATE     | BY | REVISIONS                                     |
|-----|----------|----|-----------------------------------------------|
| 1   | 06-10-20 | KR | REVISED PER CITY COMMENTS DATED 07-28-2020    |
| 2   | 08-10-20 | KR | REVISED PER CITY COMMENTS RECEIVED 07-31-2020 |
| 3   | 08-14-20 | TR | REVISED PER ARCHITECT'S COMMENTS              |

SMCC PARKING LOT - PHASE 2  
FINAL ENGINEERING PLANS  
PAVING GRADING &  
DRAINAGE PLAN

PROJECT NO.: ZC 68003  
DESIGNED BY: SHK  
DRAFTED BY: SHK  
CHECKED BY: KTR  
DRAWING FILE: 05\_68003PGD\_PH2  
XREFS: 68003BAS\_PH2.DWG  
XREFS: 68003SURV\_PH2.DWG

Randy Hudak  
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ou=Zev Cohen and Associates Inc, c=US  
Date: 2020.08.18 13:39:26 -0400



R:\8803\31. MICHAEL PARESH OFFICE\FINAL ENGINEERING PLANS\ADMS\PHASE 2 - PARKING AREA\08-10 68033DET\_PH2.DWG - PRINTED 8/17/2020 4:45 PM

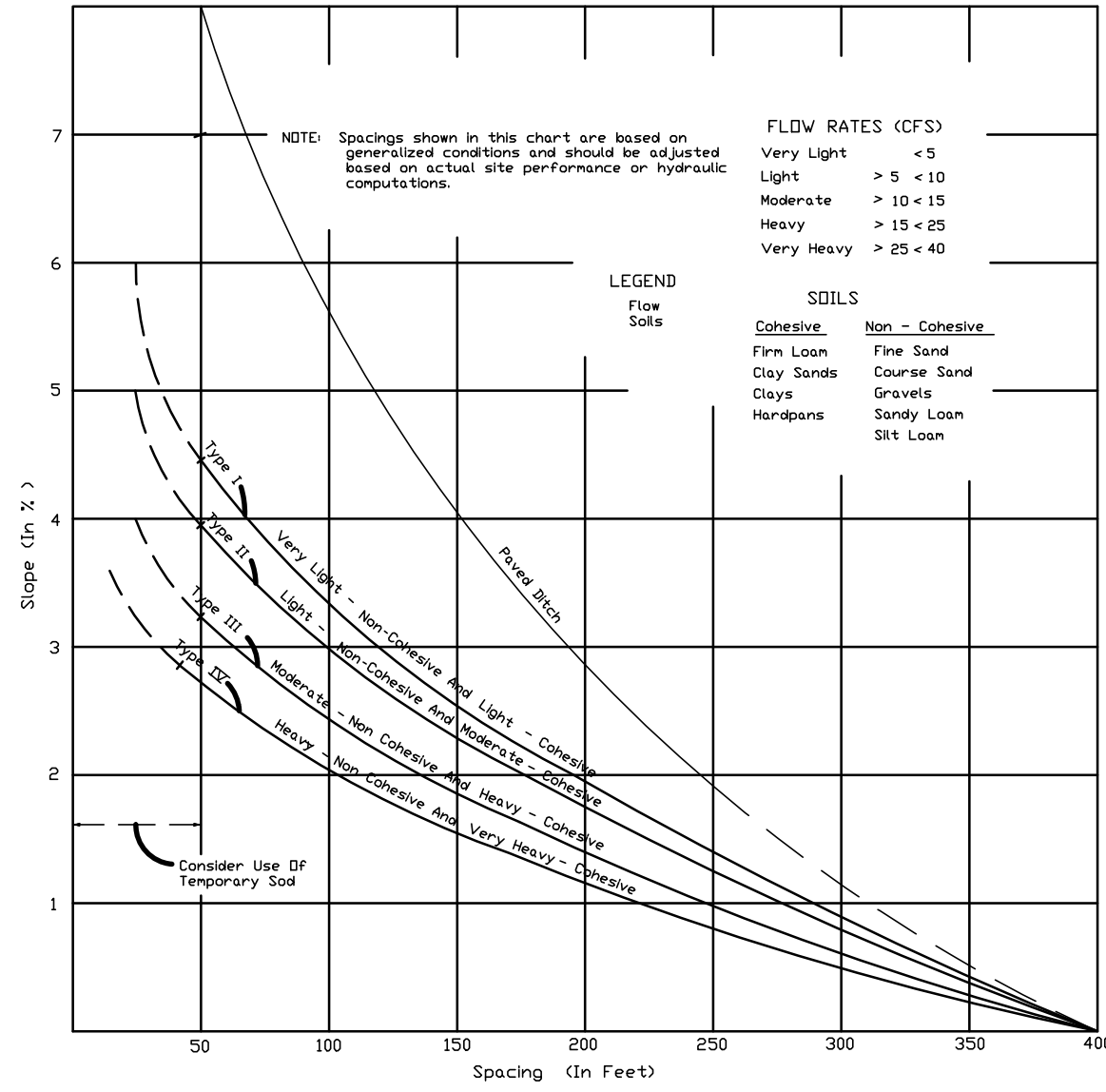
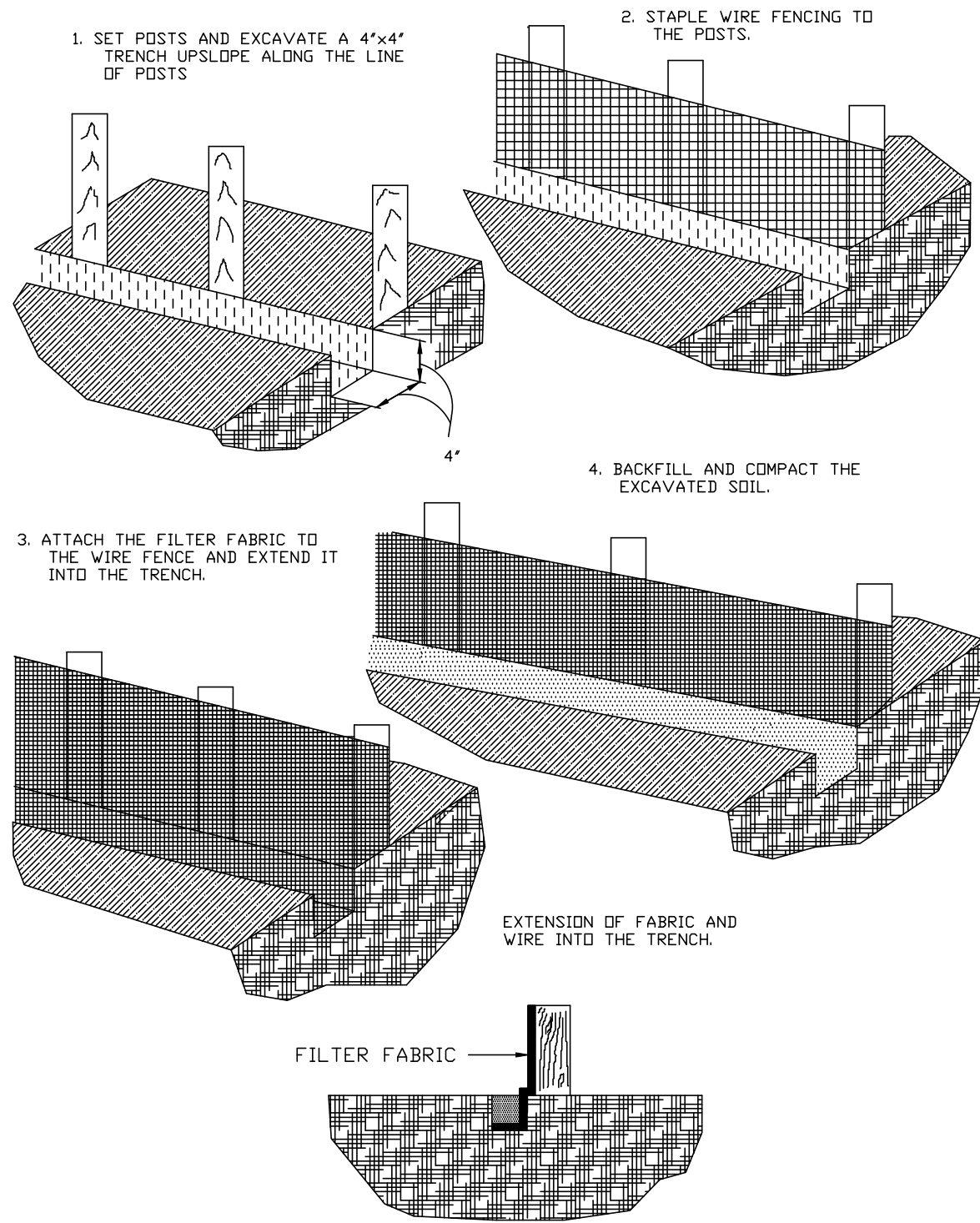
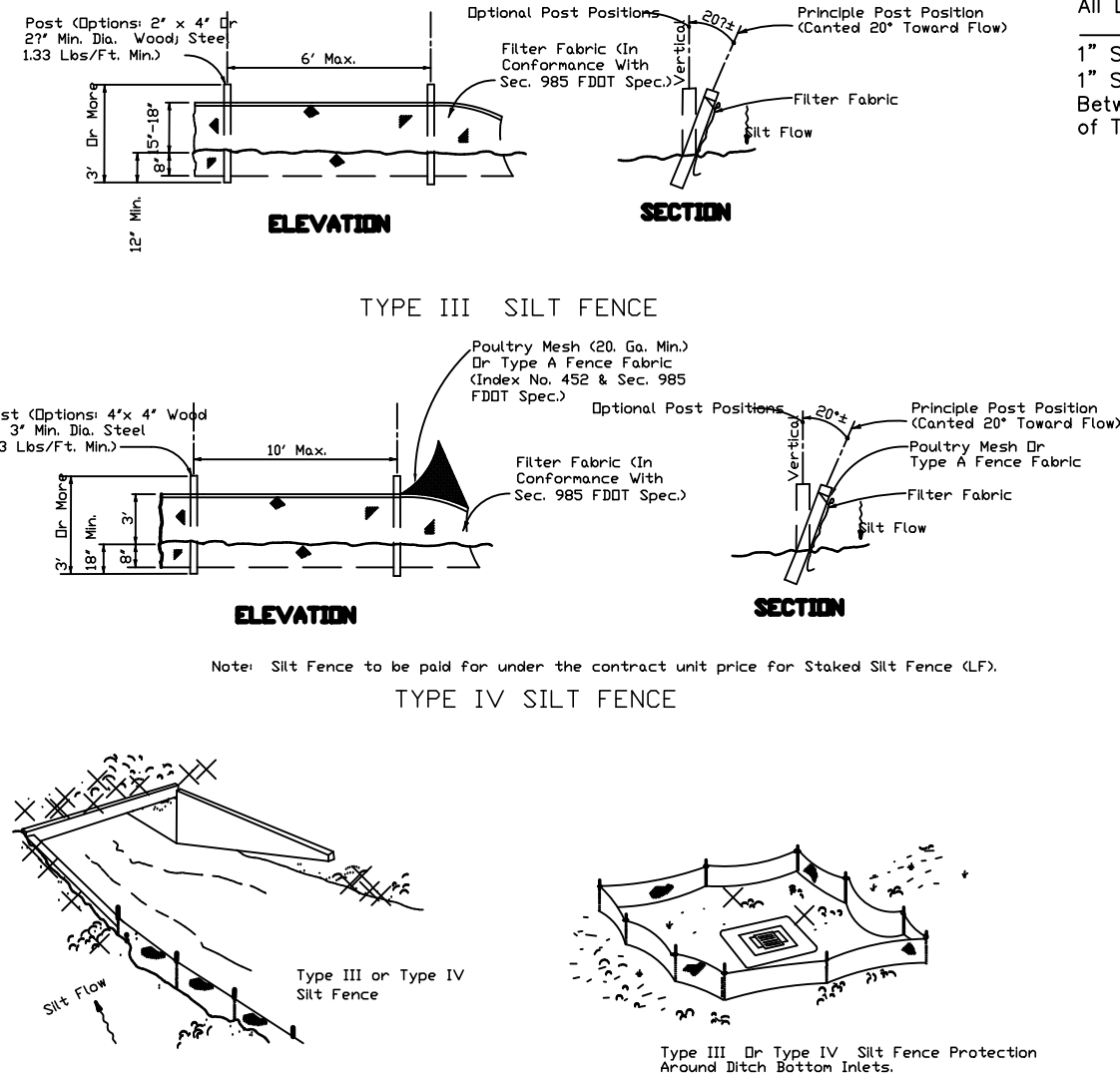


CHART I  
RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III  
AND TYPE IV SILT FENCES AND PAVED DITCH HAY BALE BARRIERS

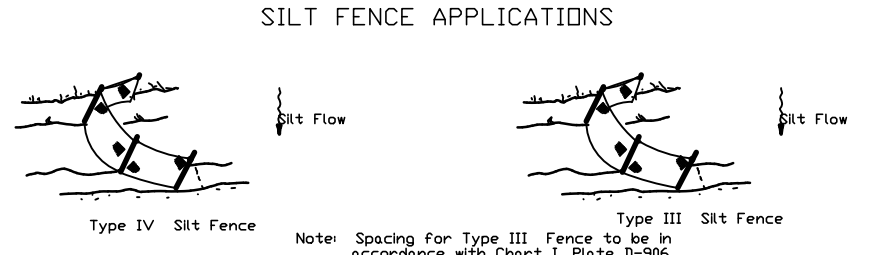
SPACING RECOMMENDATION FOR  
SILT FENCES AND HAY BALES



CONSTRUCTION DETAILS  
FOR SILT FENCES



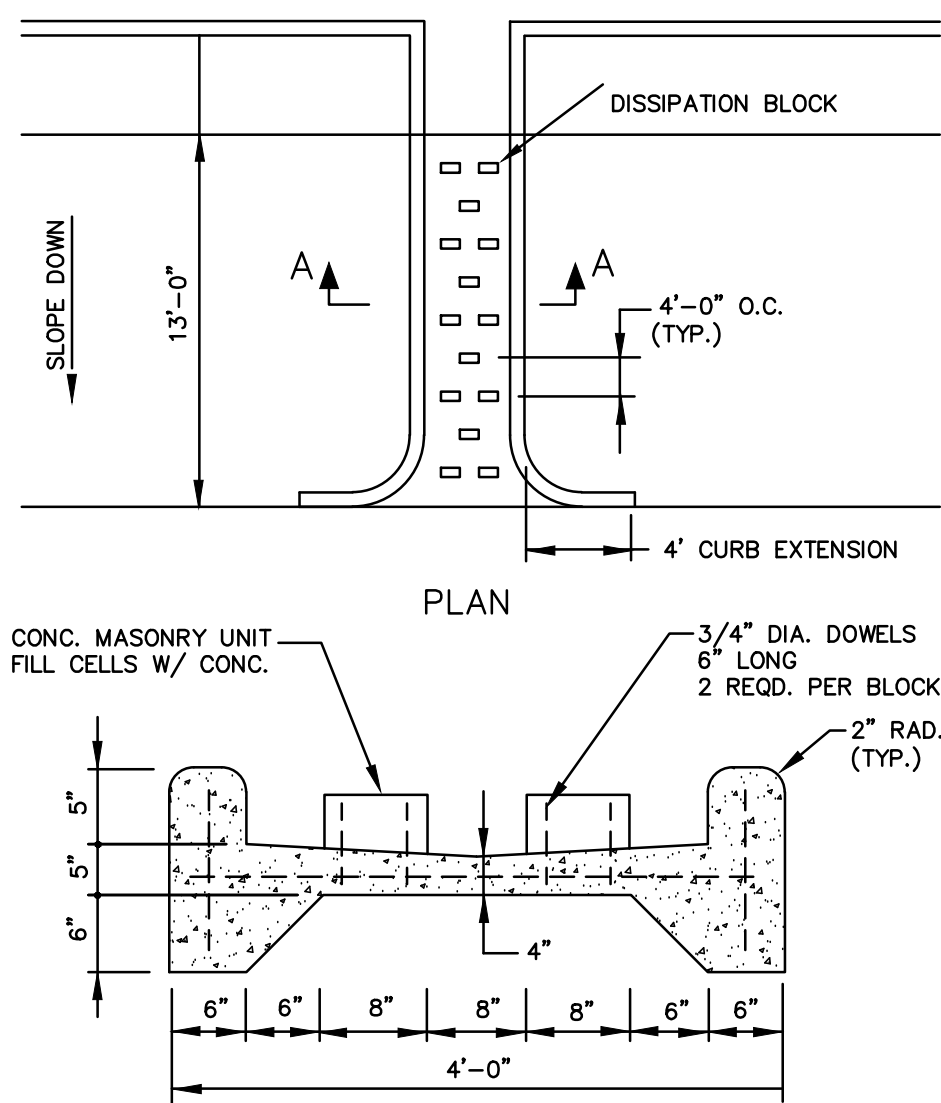
Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.



SILT FENCE  
TYPE III & IV

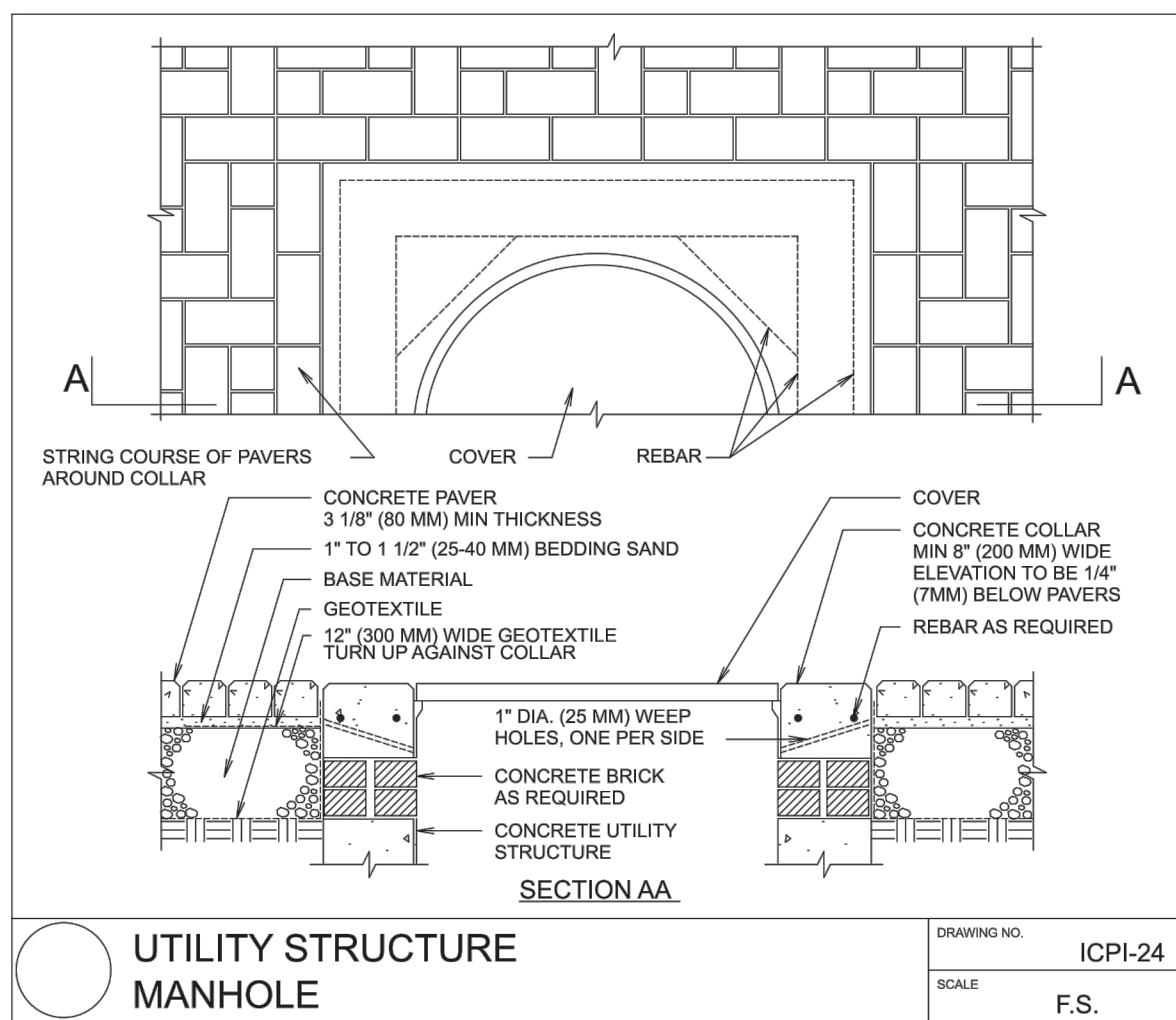
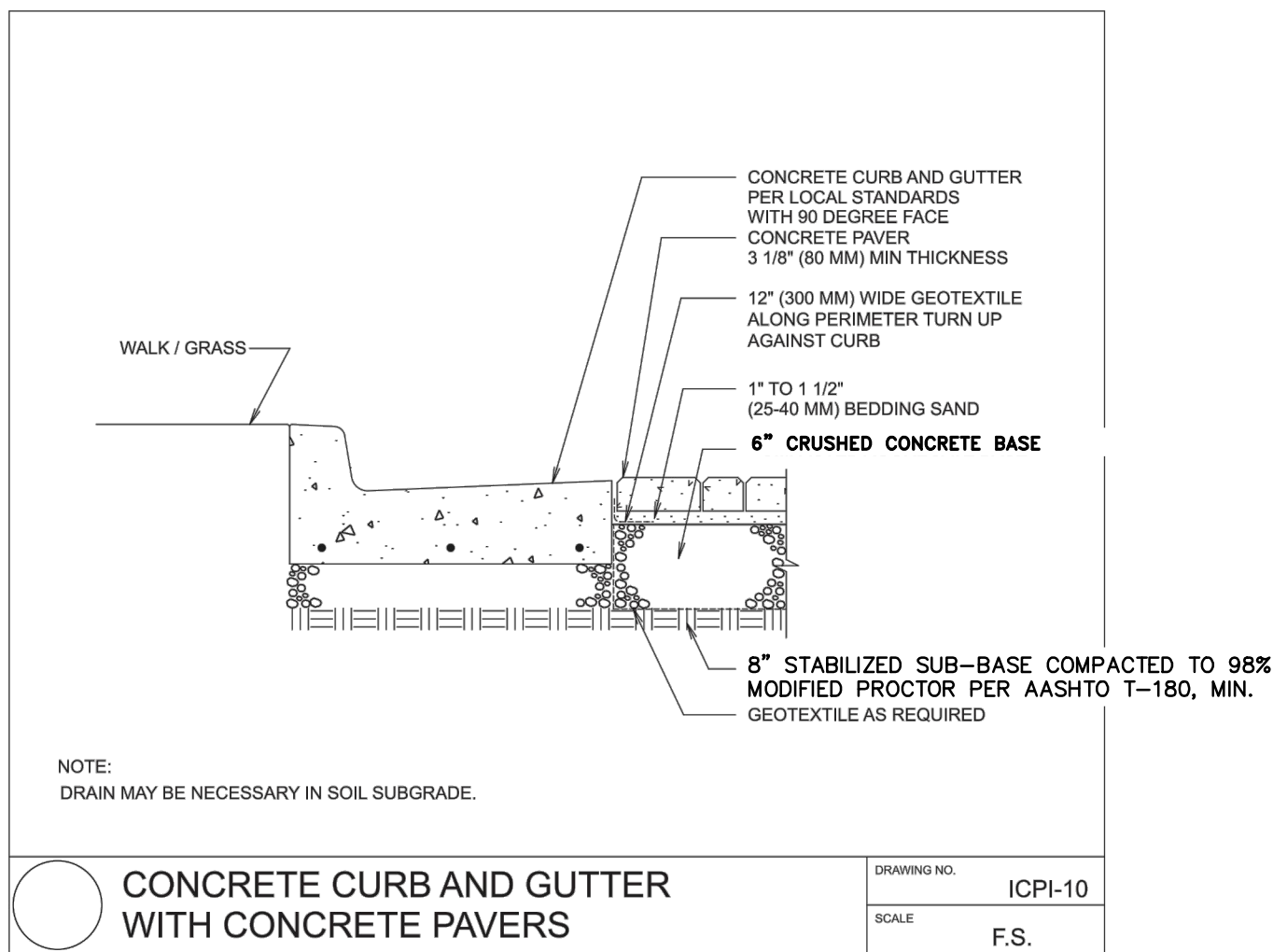
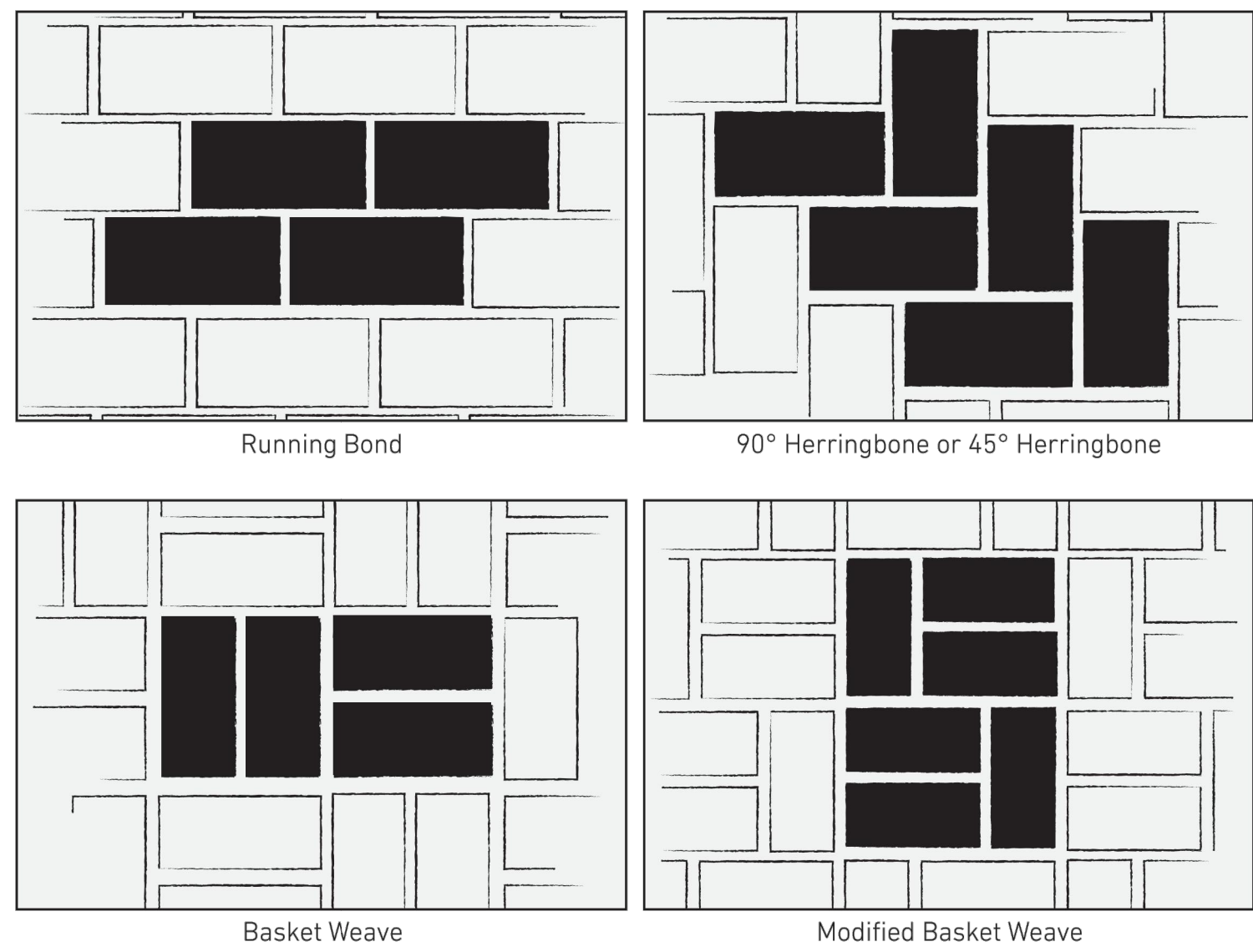
- NOTES:
- HANDICAP PARKING SIGN SHALL CONFORM WITH CURRENT FEDERAL, STATE LOCAL & ADA CODES & REGULATIONS, LATEST EDITION.
  - SIGNS WILL BE FABRICATED BY USING A REFLECTING COATING IN THE SYMBOL, MESSAGE AND BORDERS APPLIED TO A SHEET ALUMINUM BACKING (12"x18"x0.80"). MESSAGE LETTERING SHALL BE UPPER CASE (SERIES B) 2" HIGH IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
  - THE SYMBOL IS COMPOSED OF TWO ELEMENTS, A WHITE WHEEL-CHAIR FIGURE (WHICH SHOULD ALWAYS FACE RIGHT) ON A SQUARE BACKGROUND, INTERNATIONAL BLUE IN COLOR (FED. STD. 595a, COLOR #15180).
  - METAL SIGN POSTS TO BE GALVANIZED U-IRON. ALL BOLTS, NUTS, WASHERS AND SCREWS MUST BE 316 STAINLESS STEEL.
  - CONCRETE FOOTING SHALL BE OF PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I.
  - SIGN POST SHALL BE MINIMUM 2'-0" CLEAR FROM BACK OF CURB OR WHEEL STOP.
  - SIGN POST SHALL BE DESIGNED TO WITHSTAND 120 M.P.H. WIND LOAD.

HANDICAP PARKING SIGN  
N.T.S



SECTION A-A  
ENERGY DISSIPATOR  
N.T.S.

## AQUA-BRIC®



## SMCC PARKING LOT- PHASE 2 FINAL ENGINEERING PLANS CONSTRUCTION DETAILS

PROJECT NO.: ZC 68003  
DESIGNED BY: SHK  
DRAFTED BY: SHK  
CHECKED BY: KTR

DRAWING FILE: 06-10\_68003DET\_PH2  
XREF'S: 68003BAS, PH2.DWG  
XREF'S: 68003SURV, PH2.DWG

Randy Hudak  
Digitally signed by Randy Hudak  
DN: cn=Randy Hudak,  
c=USA, ou=000000011609622000001059,  
ou=Zev Cohen and Associates Inc, C=US  
Date: 2020.08.18 13:39:42-0400

KRISTOPHER ROWLEY, P.E. NO. 84263  
NOT VALID WITHOUT SEAL  
SHEET: C6 OF 10

CIVIL ENGINEERING  
LANDSCAPE ARCHITECTURE  
ENVIRONMENTAL  
PLANNING  
TRANSPORTATION

NO. DATE BY SUBMITTALS / REVISIONS  
1 06-10-20 KR REVISIONS PER CITY COMMENTS DATED 07-26-2020  
2 08-10-20 KR REVISED PER CITY COMMENTS RECEIVED 07-13-2020  
3 08-14-20 TR REVISED PER ARCHITECT'S COMMENTS

CITY OF FERNANDINA BEACH  
NASSAU COUNTY, FLORIDA

PROJECT NO.: ZC 68003  
DESIGNED BY: SHK  
DRAFTED BY: SHK  
CHECKED BY: KTR

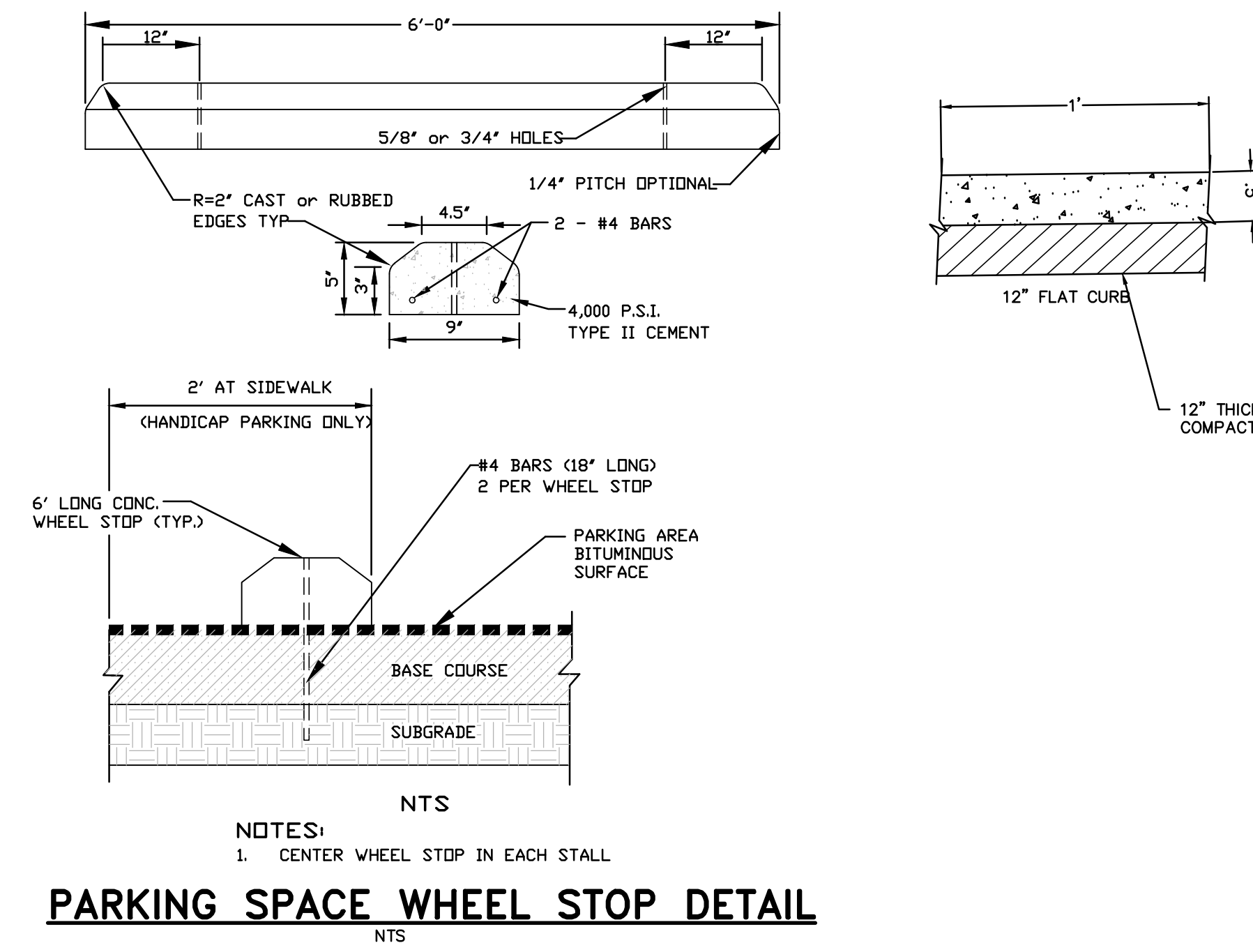
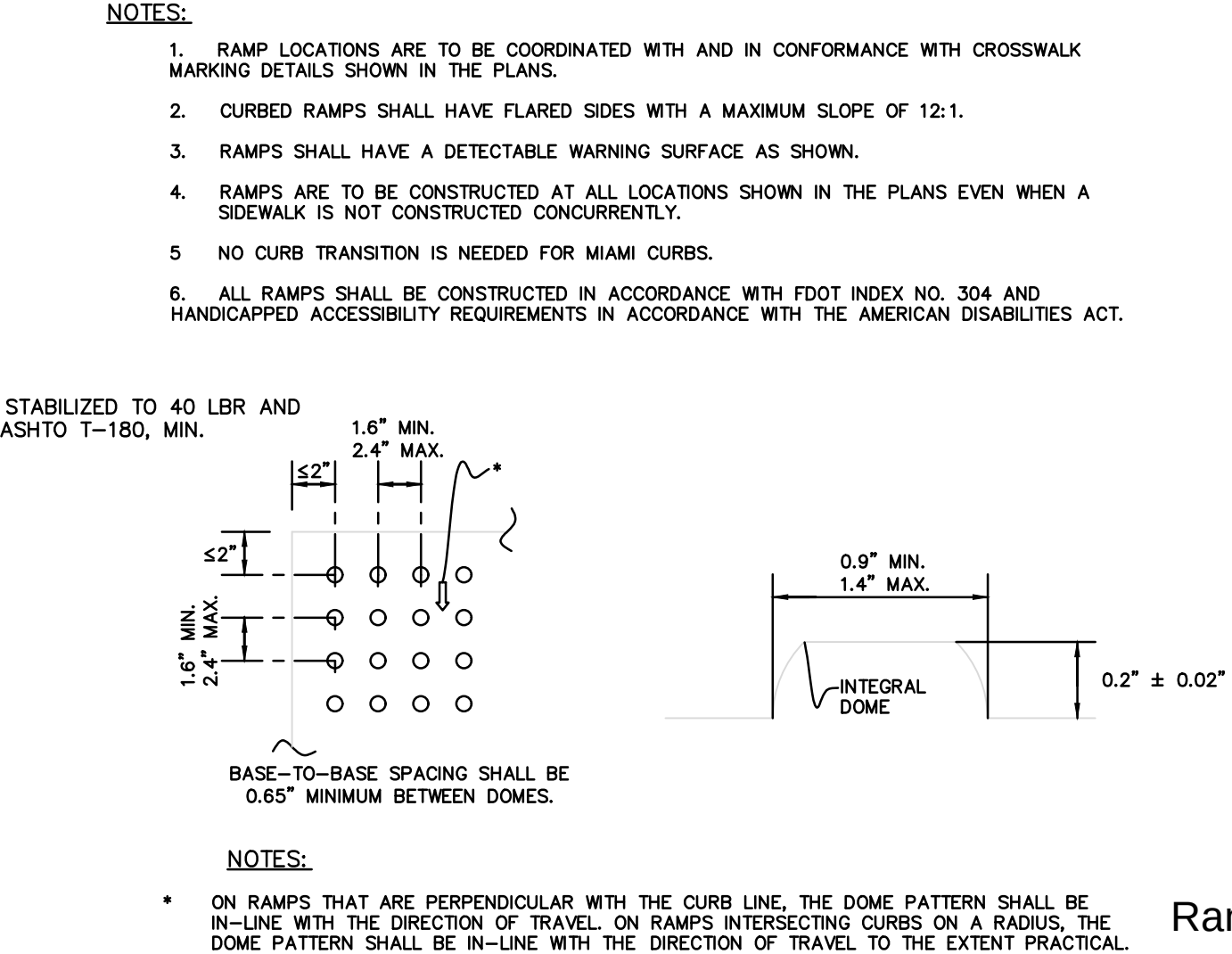
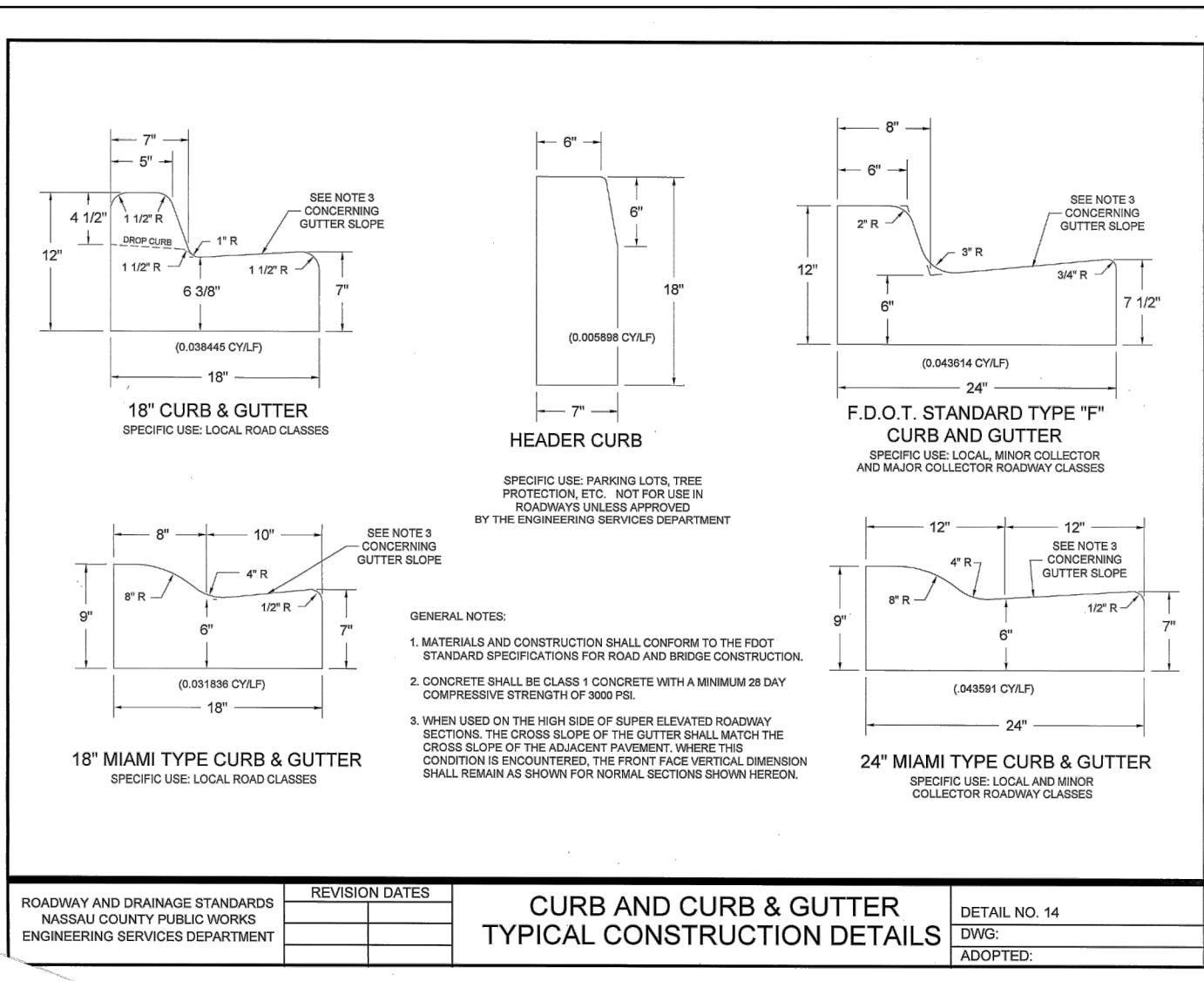
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XREF'S: 68003SURV, PH2.DWG

Randy Hudak  
Digitally signed by Randy Hudak  
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ou=Zev Cohen and Associates Inc, C=US  
Date: 2020.08.18 13:39:42-0400

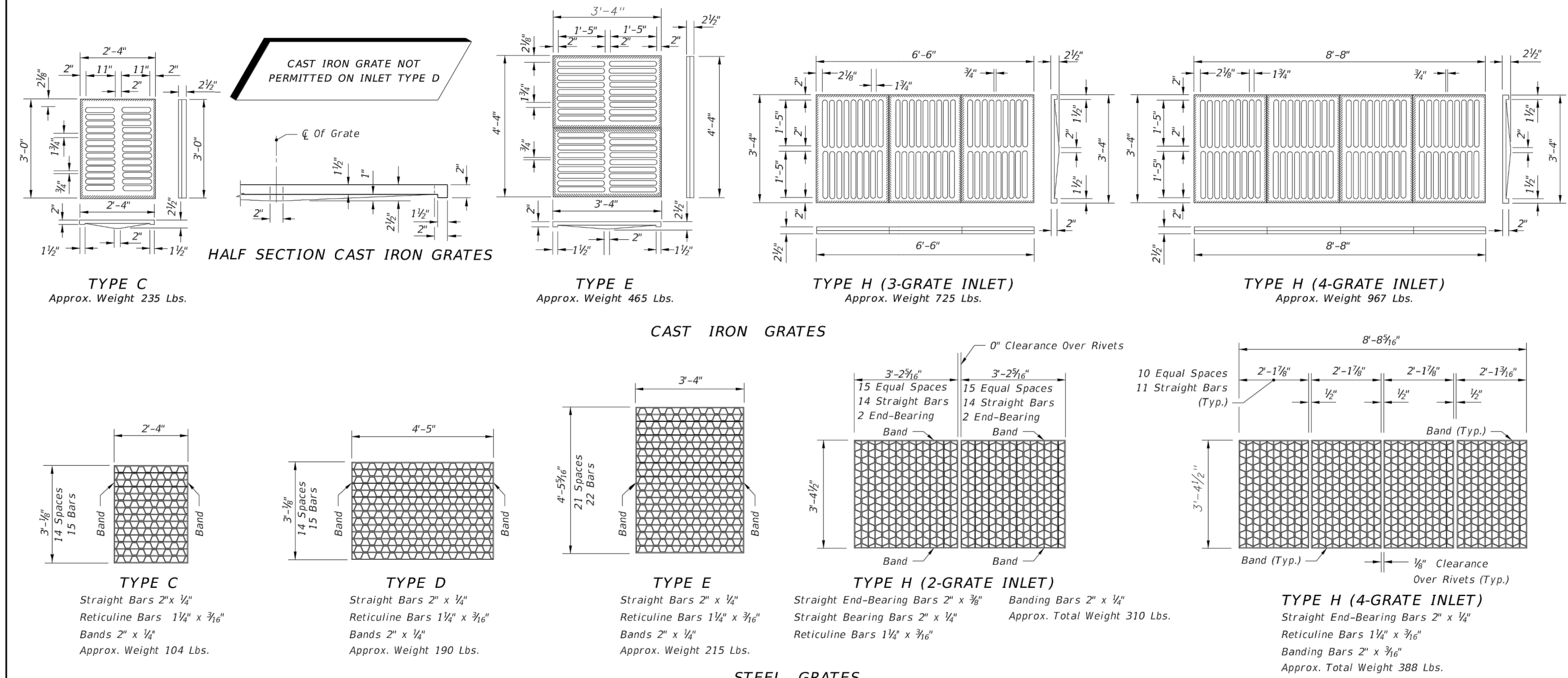
KRISTOPHER ROWLEY, P.E. NO. 84263  
NOT VALID WITHOUT SEAL  
SHEET: C6 OF 10

ZEV COHEN  
& ASSOCIATES, INC.  
10000 BEACH BLVD., SUITE 100  
FERNANDINA BEACH, FL 32137  
WWW.ZEVCOHEN.COM





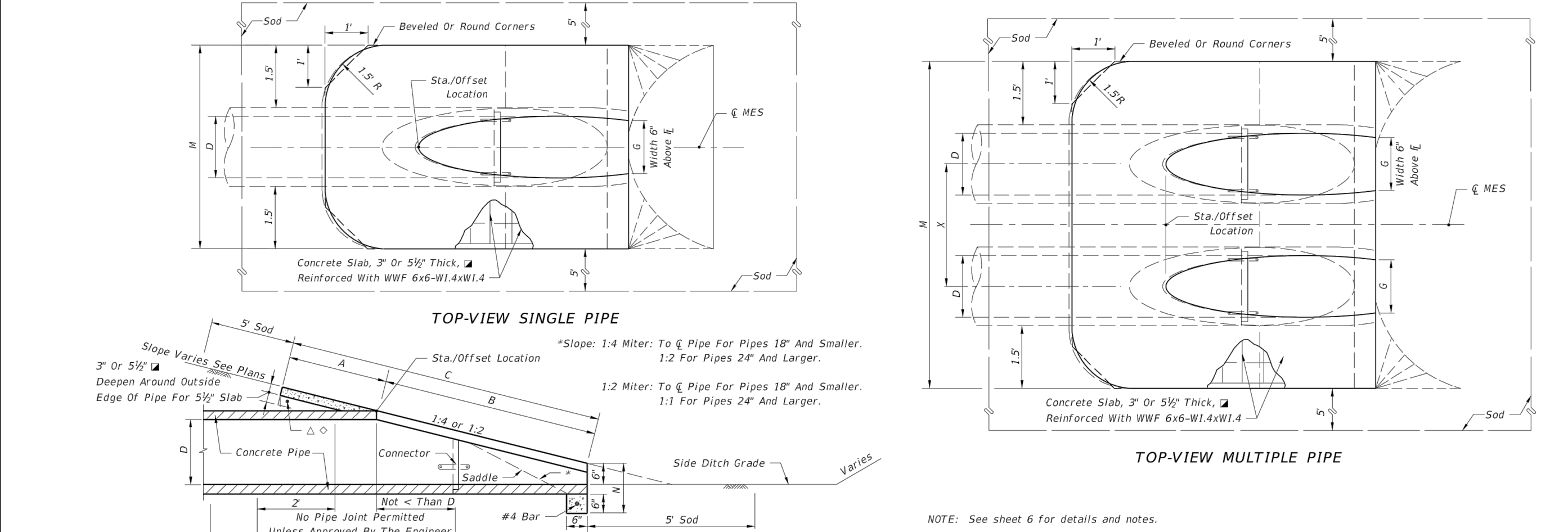




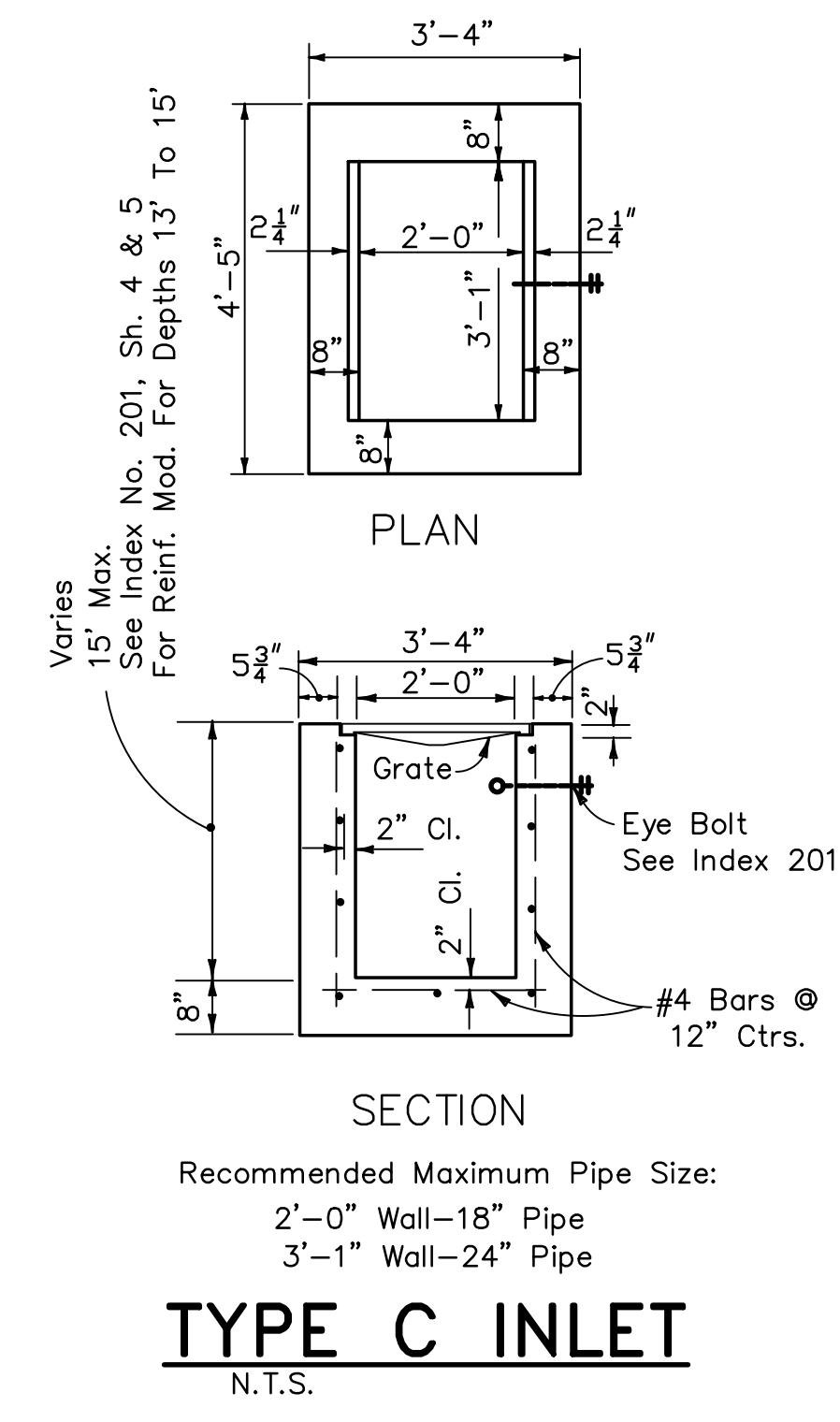
- GENERAL NOTES**
- These inlets are suitable for bicycle traffic and are to be used in ditches, medians and other areas subject to infrequent traffic loadings but are not to be placed in areas subject to heavy wheel loads. These inlets may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet.
  - Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slotted inlets located within roadway clear zones and areas subject to pedestrians shall have traversable slots. The traversable slot modification is not adaptable to Inlet Type H. Slots may be constructed at either or both ends as shown on plans. Traversable slots shall not be used in areas subject to occasional bicycle traffic.
  - Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with traversable slots.
  - Recommended maximum pipe sizes shown are for concrete pipe. Size for other types of pipe must be checked for fit.
  - All exposed edges and corners shall be 1/4" chamfer or tool to 1/2" radius.
  - Concrete inlet pavement to be used on inlets without slots and inlets with non-traversable slots only when called for in the plans. Not required on all traversable slot inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.
  - Traversable slots constructed in existing inlets shall be paid for as inlets partial. For conversion work and method of payment see TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS.
  - Sodding to be used on all inlets not located in paved areas and paid for under contract unit price for Performance Turf, 5'.
  - For supplementary details see Index 425-001.
  - All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Bars to be cut or bent for 1/2" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening.

| LAST REVISION | DESCRIPTION: | FY 2019-20 STANDARD PLANS | DITCH BOTTOM INLET TYPES C, D, E AND H | INDEX   | SHEET  |
|---------------|--------------|---------------------------|----------------------------------------|---------|--------|
| 11/01/17      |              |                           |                                        | 425-052 | 3 of 7 |

|     |        | DIMENSIONS AND QUANTITIES |       |        |       |        |      |      |       |        |       |        |      |        |      |      |       |                             |    |        |    |              |  |      |  |
|-----|--------|---------------------------|-------|--------|-------|--------|------|------|-------|--------|-------|--------|------|--------|------|------|-------|-----------------------------|----|--------|----|--------------|--|------|--|
|     |        | M                         |       |        |       |        |      |      |       | N      |       |        |      |        |      |      |       | 5 1/2" CONCRETE SLAB (CY) ▴ |    |        |    | SODDING (SY) |  |      |  |
|     |        | Single                    |       | Double |       | Triple |      | Quad |       | Single |       | Double |      | Triple |      | Quad |       | Single                      |    | Double |    | Triple       |  | Quad |  |
| D   | X      | A                         | B     | C      | E     | F      | G    | H    |       |        |       |        |      |        |      |      |       |                             |    |        |    |              |  |      |  |
| 15' | 2'-7"  | 1.92                      | 2.18  | 4.19   | 2.06  | 5      | 1.22 | 2.9  | 4.63  | 7.21   | 9.79  | 12.37  | 1.19 | 0.38   | 0.58 | 0.77 | 0.96  | 21                          | 24 | 27     | 30 |              |  |      |  |
| 18' | 2'-10" | 1.97                      | 2.74  | 4.71   | 2.56  | 6      | 1.41 | 3.4  | 4.92  | 7.72   | 10.38 | 13.42  | 1.21 | 0.44   | 0.65 | 0.87 | 1.09  | 22                          | 25 | 28     | 31 |              |  |      |  |
| 24' | 3'-5"  | 2.06                      | 3.85  | 5.91   | 3.56  | 7      | 1.73 | 3.4  | 5.50  | 8.92   | 12.33 | 15.75  | 1.25 | 0.54   | 0.83 | 1.12 | 1.42  | 24                          | 28 | 32     | 35 |              |  |      |  |
| 30' | 4'-3"  | 2.15                      | 4.95  | 7.10   | 4.56  | 8      | 2.00 | 3.4  | 6.08  | 10.33  | 14.58 | 18.83  | 1.29 | 0.66   | 1.09 | 1.50 | 1.91  | 26                          | 31 | 35     | 40 |              |  |      |  |
| 36' | 5'-1"  | 2.25                      | 6.08  | 8.33   | 5.56  | 9      | 2.24 | 3.4  | 6.67  | 11.72  | 16.83 | 21.92  | 1.33 | 0.81   | 1.38 | 1.95 | 2.51  | 28                          | 34 | 39     | 45 |              |  |      |  |
| 42' | 6'-0"  | 2.34                      | 7.21  | 9.55   | 6.56  | 10     | 2.45 | 3.4  | 7.25  | 13.25  | 19.25 | 25.25  | 1.38 | 0.97   | 1.70 | 2.45 | 3.19  | 30                          | 37 | 43     | 50 |              |  |      |  |
| 48' | 6'-9"  | 2.43                      | 8.33  | 10.76  | 7.56  | 11     | 2.69 | 3.4  | 7.83  | 14.58  | 21.33 | 28.08  | 1.42 | 1.13   | 2.04 | 2.93 | 3.84  | 32                          | 39 | 47     | 54 |              |  |      |  |
| 54' | 8'-6"  | 2.52                      | 9.44  | 11.96  | 8.56  | 12     | 2.83 | 3.4  | 8.42  | 16.08  | 23.75 | 31.42  | 1.46 | 1.31   | 2.44 | 3.58 | 4.72  | 34                          | 42 | 51     | 59 |              |  |      |  |
| 60' | 8'-6"  | 2.62                      | 10.56 | 13.18  | 9.56  | 14     | 3.00 | 4.4  | 9.00  | 17.50  | 26.00 | 34.50  | 1.50 | 1.51   | 2.89 | 4.28 | 5.68  | 36                          | 45 | 55     | 64 |              |  |      |  |
| 66' | 9'-2"  | 2.71                      | 11.68 | 14.39  | 10.56 | 15     | 3.18 | 4.4  | 9.58  | 18.75  | 27.92 | 37.08  | 1.54 | 1.68   | 3.25 | 4.84 | 6.43  | 38                          | 48 | 58     | 68 |              |  |      |  |
| 72' | 10'-0" | 2.80                      | 12.80 | 15.60  | 11.56 | 16     | 3.39 | 4.4  | 10.16 | 20.16  | 30.16 | 40.16  | 1.58 | 1.89   | 3.74 | 5.59 | 7.45  | 40                          | 51 | 62     | 73 |              |  |      |  |
| 15' | 2'-7"  | 2.27                      | 4.09  | 6.36   | 4.03  | 8      | 1.22 | 4.0  | 4.63  | 7.21   | 9.79  | 12.37  | 1.19 | 0.57   | 0.87 | 1.15 | 1.44  | 23                          | 26 | 29     | 32 |              |  |      |  |
| 18' | 2'-10" | 2.36                      | 5.12  | 7.48   | 5.03  | 9      | 1.41 | 4.0  | 4.92  | 7.72   | 10.38 | 13.42  | 1.21 | 0.66   | 0.99 | 1.31 | 1.65  | 25                          | 28 | 31     | 35 |              |  |      |  |
| 24' | 3'-5"  | 2.53                      | 7.18  | 9.71   | 7.03  | 11     | 1.73 | 4.0  | 5.50  | 8.92   | 12.33 | 15.75  | 1.25 | 0.85   | 1.30 | 1.75 | 2.20  | 28                          | 32 | 36     | 40 |              |  |      |  |
| 30' | 4'-3"  | 2.70                      | 9.25  | 11.95  | 9.03  | 13     | 2.00 | 4.0  | 6.08  | 10.33  | 14.58 | 18.83  | 1.29 | 1.10   | 1.74 | 2.39 | 3.05  | 31                          | 36 | 41     | 46 |              |  |      |  |
| 36' | 5'-1"  | 2.87                      | 11.31 | 14.18  | 11.03 | 15     | 2.24 | 4.0  | 6.67  | 11.72  | 16.83 | 21.92  | 1.33 | 1.32   | 2.21 | 3.08 | 3.96  | 34                          | 40 | 46     | 52 |              |  |      |  |
| 42' | 6'-0"  | 3.05                      | 13.37 | 16.42  | 13.03 | 17     | 2.45 | 4.0  | 7.25  | 13.25  | 19.25 | 25.25  | 1.38 | 1.58   | 2.76 | 3.91 | 5.09  | 38                          | 44 | 51     | 58 |              |  |      |  |
| 48' | 6'-9"  | 3.22                      | 15.43 | 18.65  | 15.03 | 19     | 2.65 | 4.0  | 7.83  | 14.58  | 21.33 | 28.08  | 1.42 | 1.85   | 3.30 | 4.73 | 6.17  | 41                          | 48 | 56     | 63 |              |  |      |  |
| 54' | 7'-6"  | 3.39                      | 17.49 | 20.88  | 17.03 | 21     | 2.83 | 4.0  | 8.42  | 16.08  | 23.75 | 31.42  | 1.46 | 2.14   | 3.95 | 5.77 | 7.58  | 44                          | 52 | 61     | 69 |              |  |      |  |
| 60' | 8'-6"  | 3.56                      | 19.55 | 23.11  | 19.03 | 23     | 3.00 | 4.0  | 9.00  | 17.50  | 26.00 | 34.50  | 1.50 | 2.45   | 4.66 | 6.87 | 9.07  | 47                          | 56 | 66     | 75 |              |  |      |  |
| 66' | 9'-2"  | 3.73                      | 21.62 | 25.35  | 21.03 | 25     | 3.18 | 4.0  | 9.58  | 18.75  | 27.92 | 37.08  | 1.54 | 2.88   | 5.54 | 8.18 | 10.84 | 49                          | 59 | 69     | 80 |              |  |      |  |
| 72' | 10'-0" | 3.91                      | 23.68 | 27.59  | 23.03 | 27     | 3.39 | 4.0  | 10.16 | 20.16  | 30.16 | 40.16  | 1.58 | 3.54   | 6.61 | 9.87 | 13.13 | 52                          | 63 | 74     | 85 |              |  |      |  |



| LAST REVISION | DESCRIPTION: | FY 2019-20 STANDARD PLANS | CROSS DRAIN MITERED END SECTION | INDEX   | SHEET  |
|---------------|--------------|---------------------------|---------------------------------|---------|--------|
| 11/01/17      |              |                           |                                 | 430-021 | 1 of 6 |



**TYPE C INLET**  
N.T.S.

| NO. | DATE     | BY | REVISIONS                        | COMMENTS            |
|-----|----------|----|----------------------------------|---------------------|
| 1   | 06-10-20 | KR | REVISED PER CITY COMMENTS        | DATED 07-26-2020    |
| 2   | 08-14-20 | TR | REVISED PER ARCHITECT'S COMMENTS | RECEIVED 07-13-2020 |

**SMCC PARKING LOT- PHASE 2**  
**FINAL ENGINEERING PLANS**  
**CONSTRUCTION DETAILS**

|                                  |
|----------------------------------|
| PROJECT NO. ZC 68003             |
| DESIGNED BY: SHK                 |
| DRAFTED BY: SHK                  |
| CHECKED BY: KTR                  |
| DRAWING FILE: 06-10_68003DET_PH2 |
| XREFS: 68003BAS_PH2.DWG          |
| XREFS: 68003SURV_PH2.DWG         |
| PROJECT NO. ZC 68003             |
| DESIGNED BY: SHK                 |
| DRAFTED BY: SHK                  |
| CHECKED BY: KTR                  |
| DRAWING FILE: 06-10_68003DET_PH2 |
| XREFS: 68003BAS_PH2.DWG          |
| XREFS: 68003SURV_PH2.DWG         |

Randy Hudak

Digitally signed by Randy Hudak  
DN: cn=Randy Hudak,  
ou=City of Fernandina Beach, o=City of Fernandina Beach, email=rah@fernandina-beach.com, c=US  
Date: 2020.08.18 13:40:10 -0400









STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT

- A. INSPECT PORTS (IF PRESENT)
  - 1. REMOVE/OPEN LIDS ON INYLOPLAST INLINE DRAIN
  - 2. REMOVE AND CLEAN FLEXFORM FILTER IF INSTALLED
  - 3. USING A FLASHLIGHT, INSPECT DOWNSTREAM DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - 4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
- B. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

B. ALL ISOLATOR ROWS

- 1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
- 2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
- 3. MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
  - i) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - ii) SEDIMENT AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS

- A. FIXED CURTAIN CLEANING METHOD 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

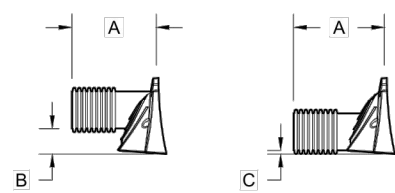
STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTENCH SYSTEM.

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.

|                                                                                                                                                                                                                                                                                                                     |    |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|
| 5                                                                                                                                                                                                                                                                                                                   | OF | 6 |
|  <p>StormTech<br/> <small>Stormwater Management Technology</small><br/>         10000 W. 146th Ave., Suite 100<br/>         Overland Park, KS 66204<br/>         Phone: 913.888.1800   Fax: 913.888.1801   WWW.STORMTECH.COM</p> |    |   |
| <p>4640 TRIUMPH BLVD<br/>         HILLIARD, OH 43026</p>                                                                                                                                                                                                                                                            |    |   |
| <p>SMCW PARKING LOT - PHASE 2</p>                                                                                                                                                                                                                                                                                   |    |   |
| <p>FERNANDINA BEACH, FL</p>                                                                                                                                                                                                                                                                                         |    |   |
| <p>DATE: 06-08-2020 DRAWN: DHC<br/>         PROJECT #: S196832 CHECKED: WOM</p>                                                                                                                                                                                                                                     |    |   |
| <p>DATE: 06-08-2020 DATE: 06-08-2020<br/>         DRAWN: DHC DRAWN: DHC</p>                                                                                                                                                                                                                                         |    |   |
| <p>DESCRIPTION: THE EXISTING SEWERAGE SHALL NOT BE TO CONSTRUCTION. IF THE ALL</p>                                                                                                                                                                                                                                  |    |   |

**SC-310 TECHNICAL SPECIFICATION**  
NTS



| PART #                     | STUB         | A              | B             | C            |
|----------------------------|--------------|----------------|---------------|--------------|
| SC310EP06T / SC310EP06TPC  |              |                | 5.8" (147 mm) | ---          |
| SC310EP06SB / SC310EP06BPC | 6" (150 mm)  | 9.6" (244 mm)  | ---           | 0.5" (13 mm) |
| SC310EP06T / SC310EP06TPC  |              |                | 3.5" (89 mm)  | ---          |
| SC310EP06SB / SC310EP06BPC | 8" (200 mm)  | 11.9" (302 mm) | ---           | 0.6" (15 mm) |
| SC310EP10T / SC310EP10TPC  |              |                | 1.4" (36 mm)  | ---          |
| SC310EP10SB / SC310EP10BPC | 10" (250 mm) | 12.7" (323 mm) | ---           | 0.7" (18 mm) |
| SC310EP12B                 | 12" (300 mm) | 13.2" (343 mm) | ---           | 0.9" (23 mm) |

ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

\* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

|                                                                                                                                                                                              |    |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|
| 6                                                                                                                                                                                            | OF | 6 |
| <br>4640 TRIUMPH BLVD<br>HILLIARD, OH 43026<br>PHONE: 614.891.1111 FAX: 614.891.1112<br>WWW.STORMTECH.COM |    |   |
| PROJECT # 11080632<br>DATE: 04-08-2020<br>DRAWN: DHC<br>CHECKED: WOI<br>SMCC PARKING LOT - PHASE 2<br>FERNANDINA BEACH, FL                                                                   |    |   |

[illegible]

# SMCC PARKING LOT- PHASE 2 FINAL ENGINEERING PLANS CONSTRUCTION DETAILS

CITY OF FERNANDINA BEACH  
NASSAU COUNTY, FLORIDA

|                      |
|----------------------|
| PROJECT NO: ZC 68003 |
| DESIGNED BY: SHK     |
| DRAFTED BY: SHK      |
| CHECKED BY: KTR      |

DRAWING FILE: 06-10\_68003DET\_PH2  
XREF'S: 68003BAS\_PH2.DWG  
XREF'S: 68003SURV\_PH2.DWG

Digitally signed by Randy Hudak  
 DN: CN=Randy Hudak,  
 OU=A01410D00000171609E622000001C05,  
 O=Zev Cohen and Associates inc, C=US  
 Date: 2020.08.18 13:40:46-04'00'

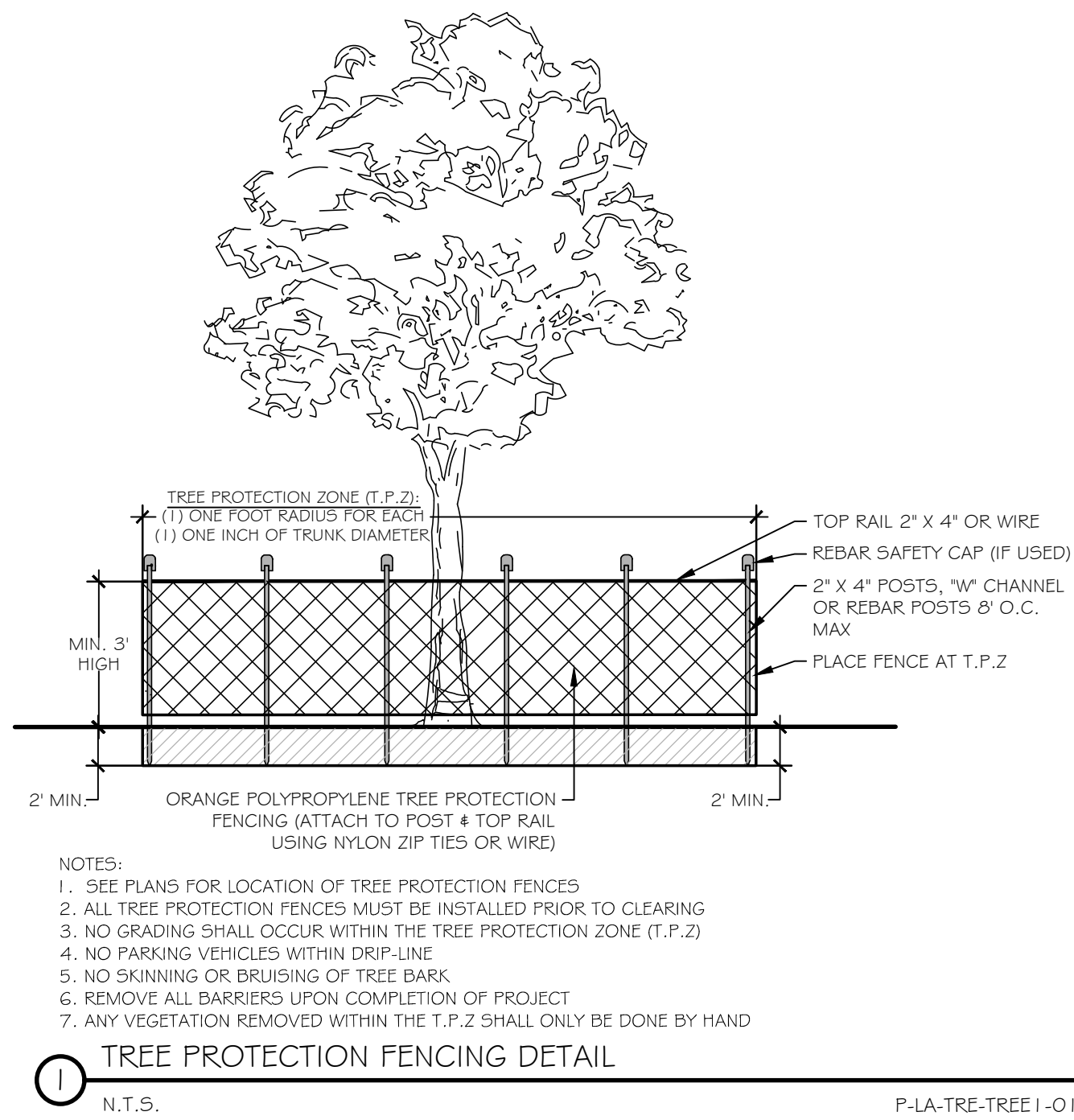
KRISTOPHER ROWLEY, P.E., NO.84263  
NOT VALID WITHOUT SEAL

SHEET: C10 OF 10

SHEET: C10 OF 10



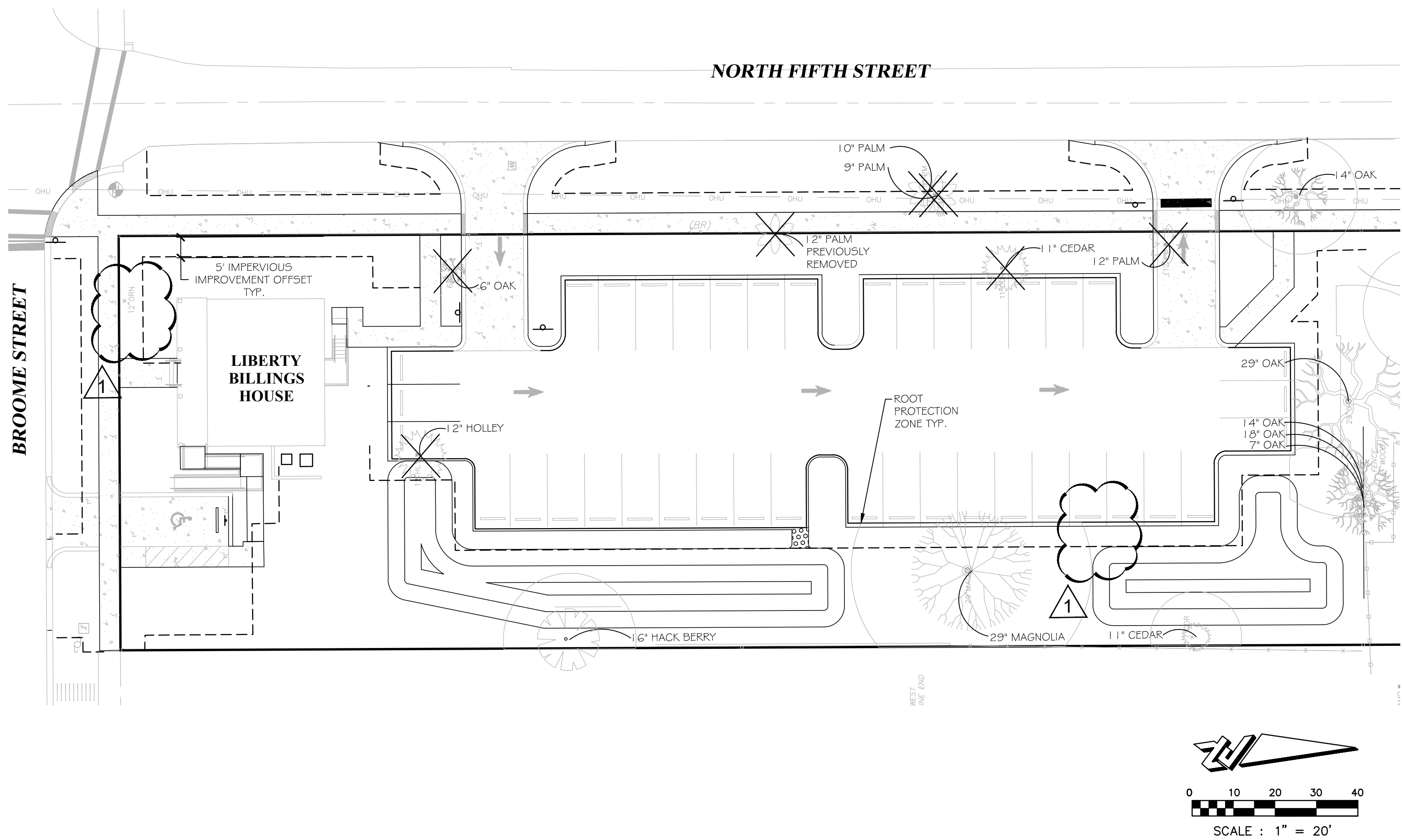
R:\68003 ST. MICHAEL PARISH OFFICE\FINAL ENGINEERING PLANS\DWG\PHASE 2 - PARKING AREA\68003TP\_PHS.DWG - PRINTED: 8/17/2020 4:46 PM



| MINIMUM ON SITE TREES                                                    |         |
|--------------------------------------------------------------------------|---------|
| TOTAL SITE ACREAGE                                                       | .69 AC. |
| TREES REQUIRED ON SITE:<br>(CALCULATION: 30,056.4 AC. / 1,500 S.F. = 20) | 20      |
| EXISTING TREES TO BE PRESERVED                                           | 15      |
| TREES PROVIDED ON LANDSCAPE PLAN                                         | 14      |
| TOTAL NUMBER OF TREES PLANNED ON SITE                                    | 29      |

| SMCC PARKING LOT IMPERVIOUS IMPROVEMENTS TREES REMOVED |                    |          |               |
|--------------------------------------------------------|--------------------|----------|---------------|
| NUMBER                                                 | SPECIES            | DIAMETER |               |
| 1                                                      | OAK                | 6        |               |
| 1                                                      | HOLLY              | 12       |               |
| 1                                                      | CEDAR              | 11       |               |
| TOTAL D.B.H.                                           |                    | 29       |               |
| REQ. MITIGATION (25%)=                                 |                    | 7.25     | D.B.H.        |
| SMCC PARKING LOT PROPOSED PLANTINGS                    |                    |          |               |
| NUMBER                                                 | SPECIES            | D.B.H.   | TOTAL D. B.H. |
| 8                                                      | LIVE OAK           | 4        | 32            |
| 6                                                      | JAPANESE BLUEBERRY | 2.5      | 15            |
| TOTAL PLANTED D.B.H. PROVIDED                          |                    | 47       | D.B.H.        |
| TOTAL MITIGATION REQ.                                  |                    | 7.25     | D.B.H.        |
| EXCESS D.B.H. PROVIDED                                 |                    | 39.75    | D.B.H.        |

- LEGEND
- EXISTING PALM TREE
  - EXISTING CEDAR/ HOLLY TREE
  - EXISTING MAGNOLIA TREE
  - EXISTING OAK TREE
  - EXISTING TREE, SEE PLAN FOR SPECIES
  - EXISTING TREE TO BE REMOVED
  - DENOTES ROOT ZONE PROTECTION AREA REQUIRED
  - DENOTES 5' OFFSET FROM IMPERVIOUS IMPROVEMENTS



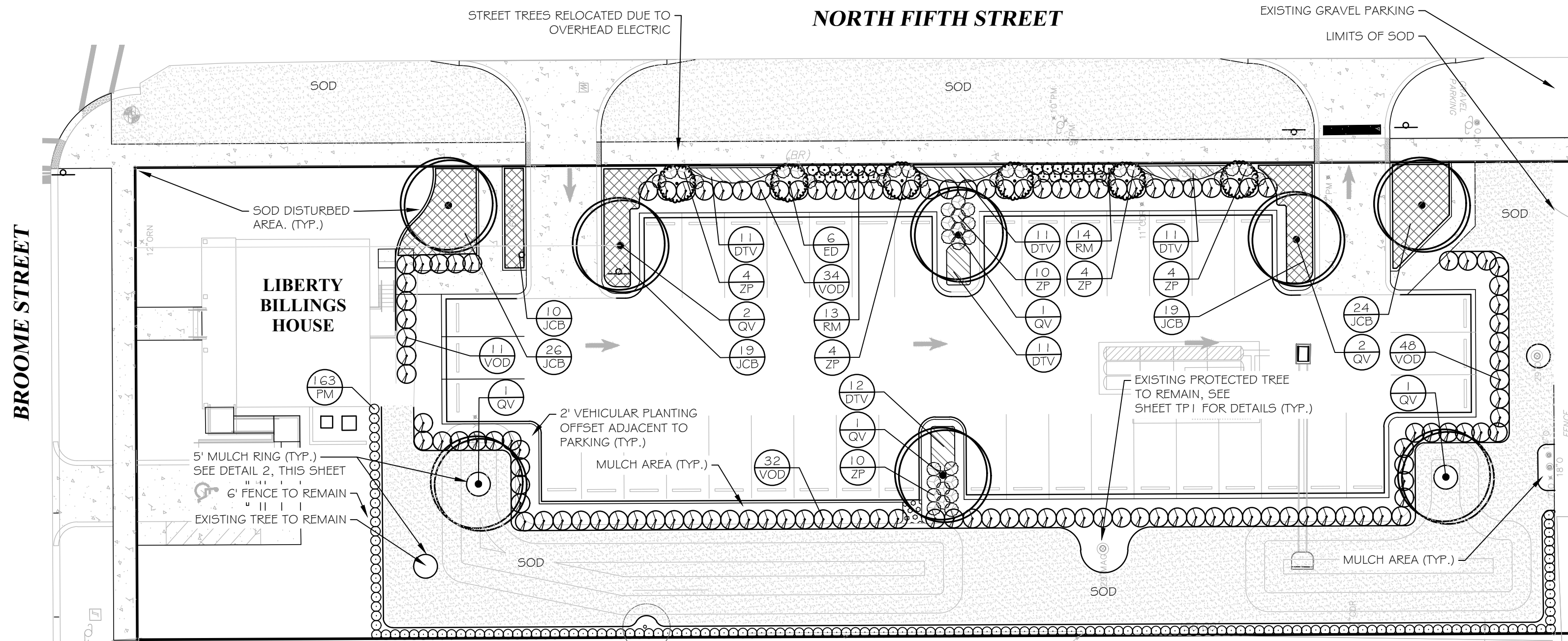
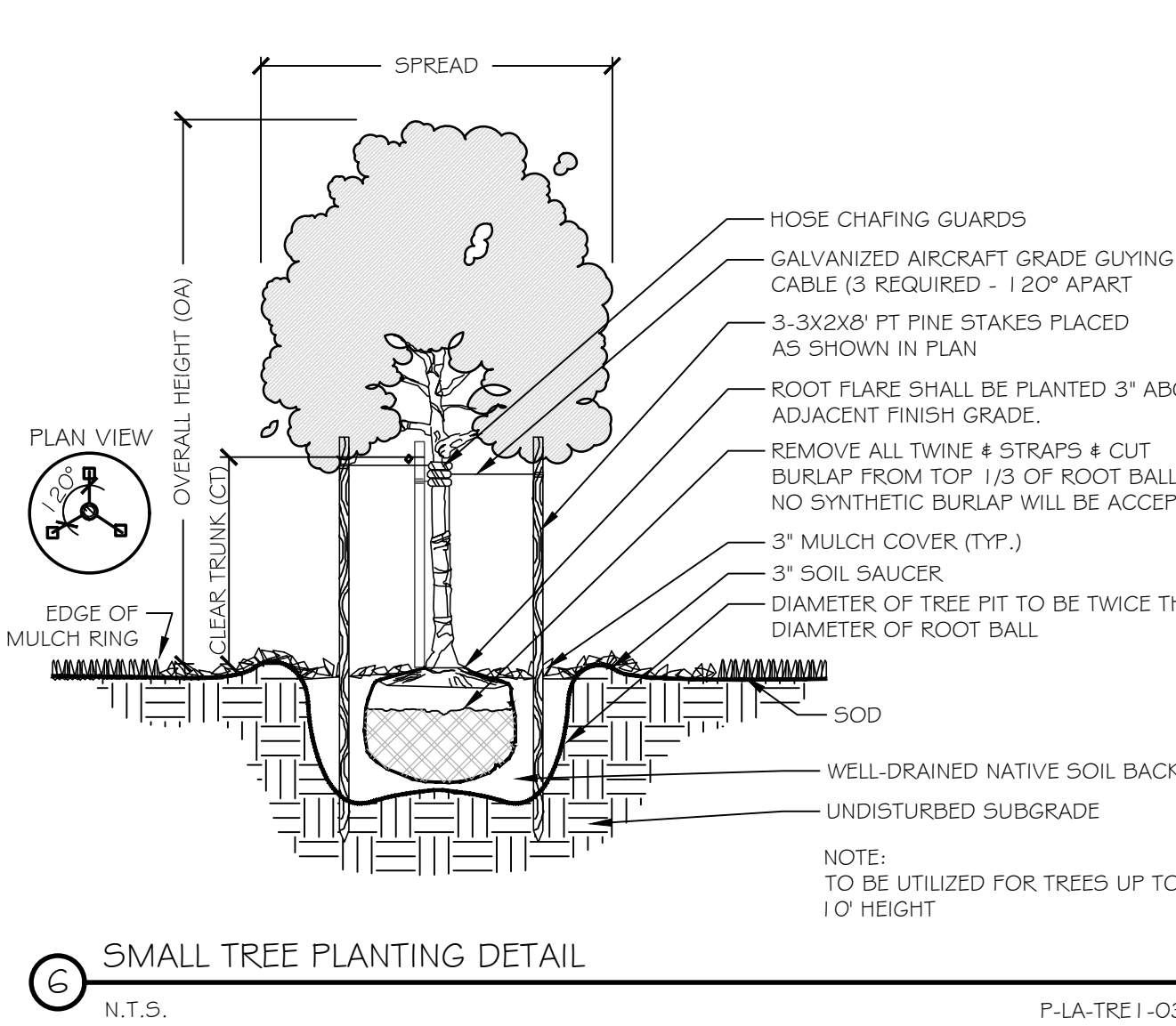
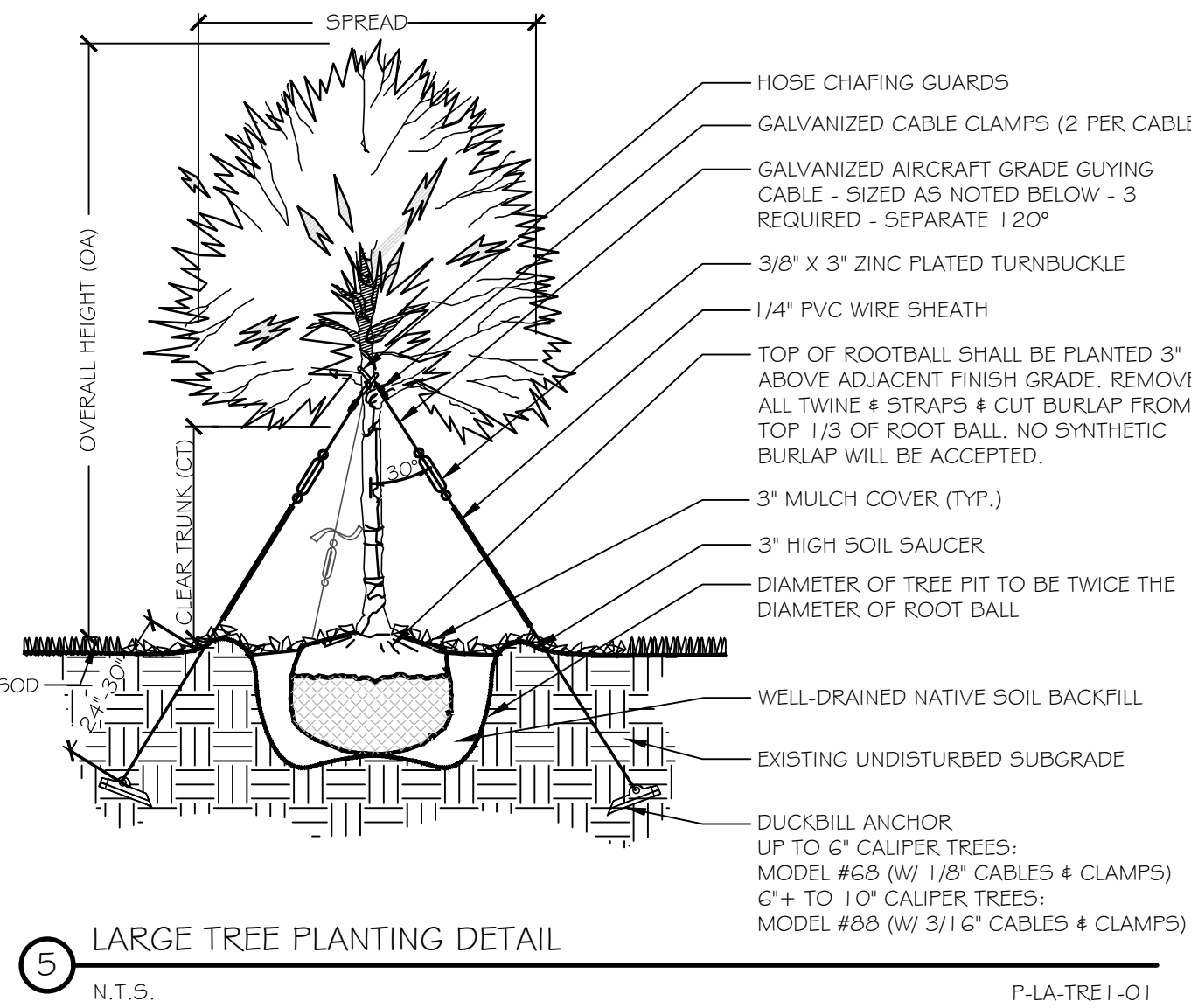
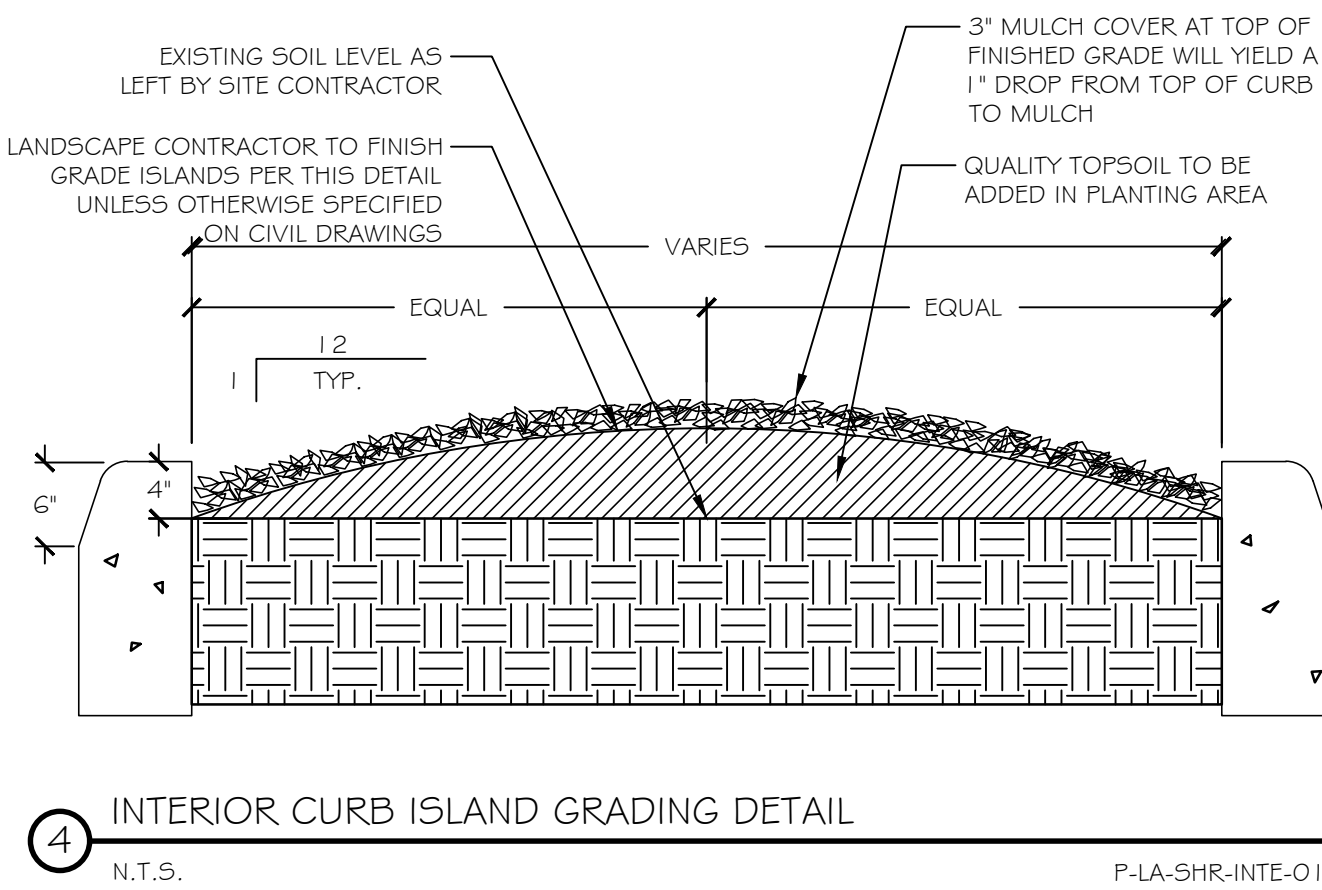
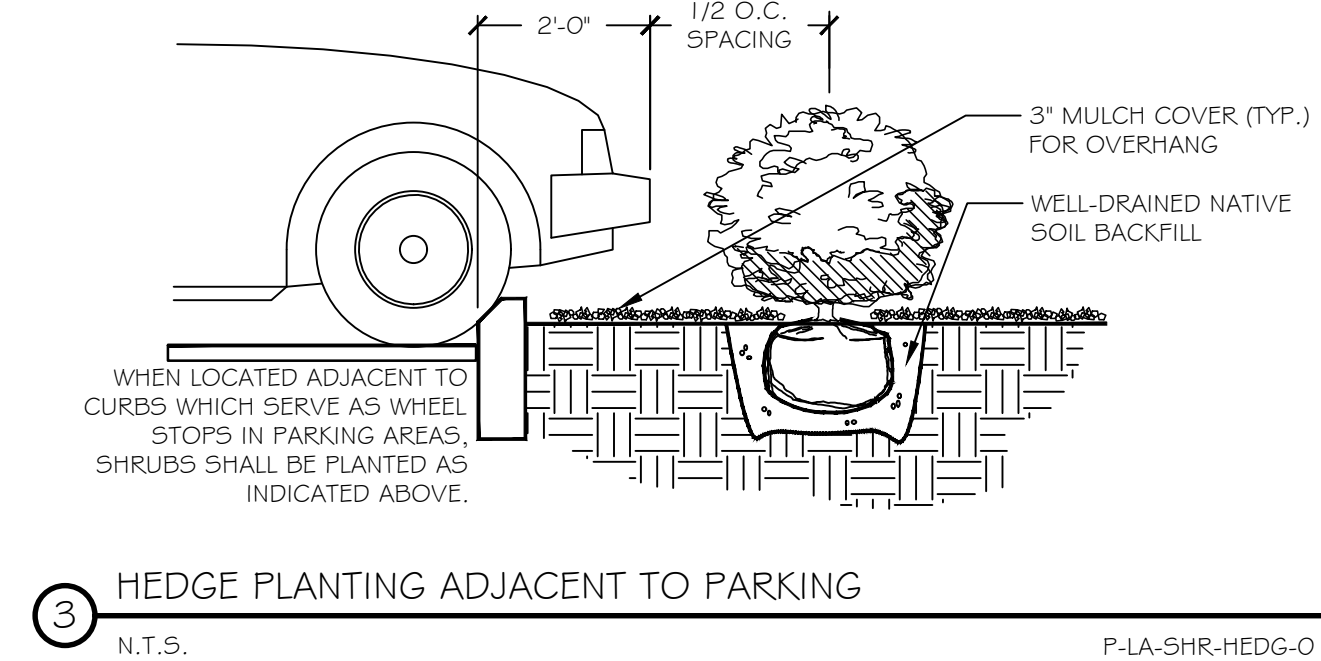
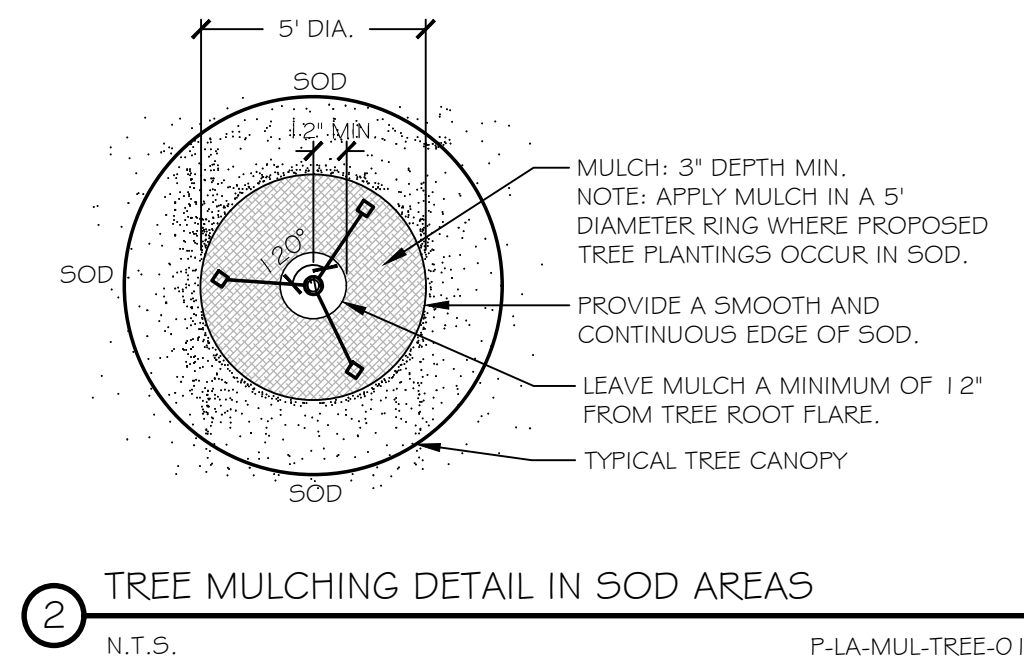
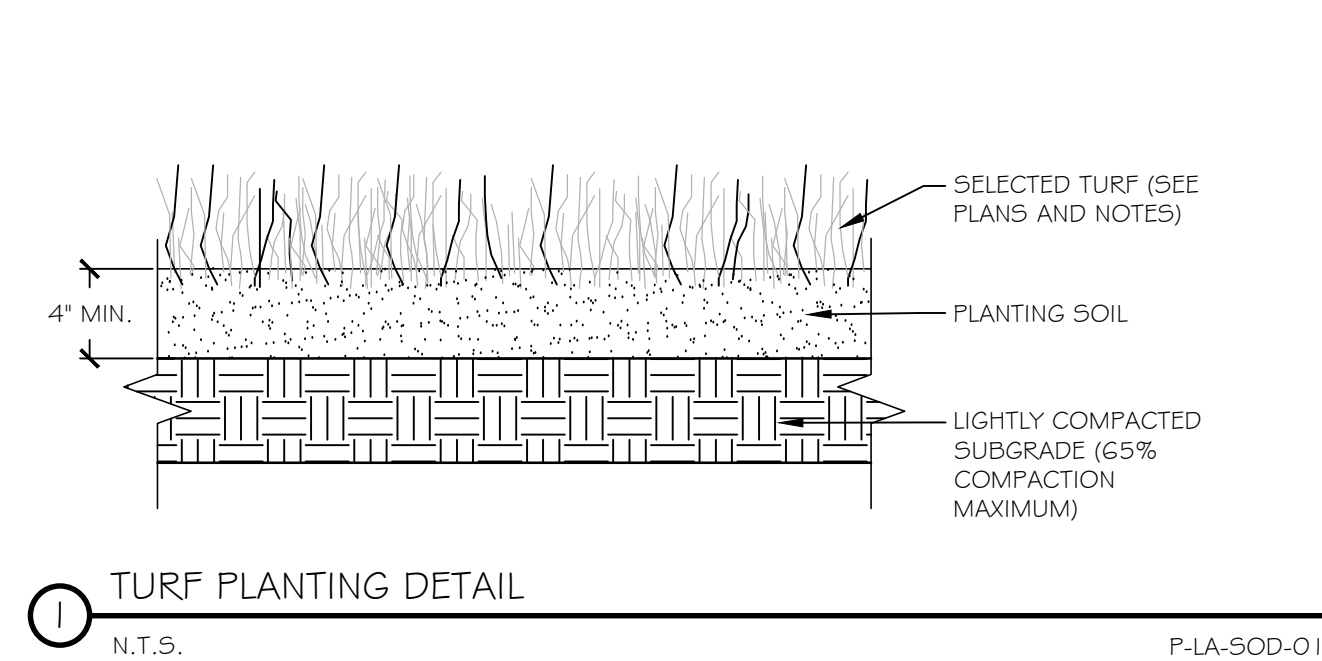


LANDSCAPE SPECIFICATIONS

- FLORIDA #1:** ALL PLANT MATERIAL SHALL BE GRADE FLORIDA NO. 1 OR BETTER IN QUALITY AS DESIGNATED IN THE MOST RECENT PUBLICATION OF 'GRADES AND STANDARDS FOR NURSERY PLANTS', PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
- EXISTING PLANTS:** IF EXISTING LANDSCAPING INTERFERES WITH PROPOSED PLANTINGS SHOWN ON PLAN, THE EXISTING LANDSCAPING IS TO BE REMOVED IN FAVOR OF THE NEW PLANTINGS, UNLESS OTHERWISE INDICATED. IF THE EXISTING VEGETATION IS INTENDED TO REMAIN, THE PROPOSED LANDSCAPING SHALL BE LOCATED AS CLOSE AS POSSIBLE TO ITS INTENDED LOCATION.
- MULCH:** ALL PLANTING BEDS SHALL BE TOP DRESSED WITH 3" FINE BARK MULCH, GRADE 'B' OR APPROVED EQUAL. ALL TREES NOT IN BEDS SHALL HAVE A 5' DIAMETER MULCH RING. ALL PALMS NOT IN BEDS SHALL HAVE A 3' DIAMETER MULCH RING UNLESS OTHERWISE NOTED ON PLANS.
- SOD:** SOD SHALL BE ARGENTINE BAHIA SOD UNLESS OTHERWISE SPECIFIED ON THE PLANS AS FLORATAM ST. AUGUSTINE SOD. ALL SOD SHALL BE ROLLED UPON INSTALLATION. CONTRACTOR TO SOD ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION RELATED ACTIVITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE SOD IS FREE OF WEEDS & INSECTS UPON INSTALLATION AND FOR THE DURATION OF THE 90 DAY MAINTENANCE PERIOD. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE NO GAPS BETWEEN SOD. SOD QUANTITY TAKEOFFS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- QUANTITIES:** IN THE EVENT OF A VARIATION BETWEEN THE QUANTITIES SHOWN ON THE PLANT LIST AND THE QUANTITIES OF PLANTS SHOWN ON THE PLAN, THE PLAN SHALL CONTROL.
- UNFORESEEN CONFLICTS:** CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY PORTION OF THE LANDSCAPE PLAN AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNFORESEEN OBSTRUCTIONS, GRADE DIFFERENCES, STANDING WATER, SOIL CONDITIONS OR OTHER CONFLICTS EXIST. SUCH UNFORESEEN CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- SUBSTITUTIONS:** NO SUBSTITUTIONS OR VARIATIONS OF ANY PLANT MATERIAL OR ITS INSTALLED LOCATION SHALL BE PERMITTED WITHOUT THE PRIOR CONSENT OF THE LANDSCAPE ARCHITECT.
- CONTAINERS:** IF GALLONAGE FOR PLANTS OR TREES IS SHOWN THEY SHALL BE CONTAINER GROWN AND THE SIZE SHOWN SHALL REPRESENT THE MINIMUM ALLOWABLE GALLONAGE. IN ALL CASES THE PLANT SPECIFIED SIZE SHALL GOVERN OVER THE GALLONAGE INDICATED.
- PLANTING SOIL:** CONTRACTOR SHALL VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO THE PLANT SPECIES SPECIFIED. IF SOIL CONDITIONS ARE DEEMED UNSUITABLE FOR PROPER PLANT HEALTH, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT AND PROPER SUBSTITUTIONS SHALL BE SPECIFIED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. THE CONTRACTOR SHALL REMOVE LIME ROCK, CONCRETE AND OTHER DELETERIOUS DEBRIS FROM PLANTING BEDS. IF DEBRIS IS INTEGRATED IN THE SOIL, THE SOIL MUST BE EXCAVATED AND REPLACED WITH ACCEPTABLE SOIL. ALL FILL TO BE PLACED IN LANDSCAPE AREAS MUST HAVE A pH RANGE BETWEEN 5.8 AND 7.5, BE ORGANIC IN NATURE, AND BE FREE OF ROCKS AND DEBRIS.
- TOPSOIL:** TOPSOIL MATERIAL SHALL BE FREE FROM ALL HARD CLODS, WEEDS, STONES OVER 1" IN DIAMETER, CLAY, HARD PAN, NOXIOUS OR OTHER UNDESIRABLE PLANTS, SOD, INSECTS, SEEDS, OR MATERIAL WHICH MAY BE HARMFUL FOR GROWTH.
- WEEDS:** IF PRESENT, THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY WEEDS FROM PLANTING AND SOD AREAS PRIOR TO THE INSTALLATION OF PROPOSED PLANT MATERIAL AND MULCH COVER. CONTRACTOR SHALL BE RESPONSIBLE TO KEEP BEDS AND SOD FREE OF WEEDS FOR THE DURATION OF THE 90 DAY MAINTENANCE PERIOD.
- GRADING:** UNLESS OTHERWISE STATED ON THESE PLANS, THE LANDSCAPE CONTRACTOR SHALL FINE GRADE ALL AREAS TO BE PLANTED AND SOD IN ORDER TO ELIMINATE BUMPS AND DEPRESSIONS. FINE GRADING SHALL BE DEFINED AS THE FINAL 2" OF GRADE TO BE ACHIEVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND RE-GRADING WASHOUT AREAS CAUSED BY EROSION UNTIL FINAL ACCEPTANCE OF THE PROJECT.
- STAKING:** ALL TREES AND PALMS ARE TO BE STAKED ACCORDING TO THE DETAILS IN THESE PLANS. IF THE CONTRACTOR PREFERENCES TO USE OTHER STAKING METHODS THAN SHOWN IN THE DETAILS, HE OR SHE MUST SUBMIT PROPOSED STAKING DETAILS TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN, REPAIR, AND/OR REPLACE ANY PLANTS DAMAGED BY FAILURE TO PROPERLY STAKE OR GUY ANY TREES & PALMS ON SITE, AT THEIR OWN EXPENSE.
- BED LINES:** CONTRACTOR TO ENSURE CURVILINEAR LANDSCAPE BEDS ARE TO BE EDGED WITH SMOOTH FLOWING CURVES. STRAIGHT-LINE LANDSCAPE BEDS ARE TO BE EDGED IN A STRAIGHT LINE PARALLEL TO ADJACENT STRUCTURES UNLESS DESIGNED OTHERWISE.
- FERTILIZER:** OSMOCOTE SLOW RELEASE FERTILIZER OR EQUIVALENT SHALL BE APPLIED TO ALL TREE, SHRUB, AND GROUNDCOVER PLANTING AREAS AT THE RATE OF THREE (3) TABLESPOONS PER 2 S.F. OF PLANTING AREA.
- DRAINAGE:** THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THIS WORK DOES NOT INTERRUPT EXISTING OR PROPOSED DRAINAGE PATTERNS AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHALL A CONFLICT ARISE. CONTRACTOR IS RESPONSIBLE FOR ALL LANDSCAPE/SOD AREAS TO PROPERLY DRAIN AWAY FROM BUILDINGS/STRUCTURES.
- SPECIFICATIONS:** THE LANDSCAPE ARCHITECT SHALL BE PERMITTED THE RIGHT DURING INSTALLATION, TO REJECT ANY AND ALL PLANT MATERIAL AND WORKMANSHIP WHICH IN HIS OR HER OPINION DOES NOT MEET THE REQUIREMENTS OF THESE SPECIFICATIONS.
- WILDLIFE NOTIFICATION:** THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT WHO SHALL PROPOSE PLANT SUBSTITUTIONS UPON WRITTEN NOTIFICATION OF NUISANCE ANIMAL EXISTENCE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE ANY/ALL INSTALLED PLANT MATERIAL DESTROYED/DAMAGED BY WILDLIFE WITHIN THE MAINTENANCE PERIOD.
- TURNOVER:** CONTRACTOR SHALL CONTACT OWNERS REPRESENTATIVE FOR A TURNOVER DATE TO INCLUDE A WALK-THROUGH AND ACCEPTANCE OF WORK BY THE LANDSCAPE ARCHITECT OR OWNER. ANY WORK DEEMED UNACCEPTABLE SHALL BE CORRECTED IMMEDIATELY AND RE-INSPECTED AS SCHEDULED.
- MAINTENANCE:** CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE TO BEGIN AFTER EACH PLANT HAS BEEN INSTALLED AND SHALL CONTINUE 90 DAYS AFTER FINAL WRITTEN ACCEPTANCE BY THE OWNER. MAINTENANCE SHALL INCLUDE WATERING, PRUNING, WEEDING, MULCHING, MOWING, REPLACEMENT OF SICK OR DEAD PLANTS, AND ANY OTHER CARE NECESSARY IN ORDER TO MAINTAIN PROPER PLANT HEALTH AND SOIL MOISTURE CONTENT.
- GARANTEE:** CONTRACTOR SHALL GUARANTEE AND REPLACE ALL INSTALLED PLANT MATERIAL FOR ONE (1) CALENDAR YEAR STARTING FROM THE TURNOVER DATE FOR WORK FOUND ACCEPTABLE. ANY CORRECTED WORK SHALL HAVE A PROPORTIONAL EXTENSION OF WARRANTY ONCE APPROVED. ANY SICK OR DEAD MATERIAL SHALL BE REPLACED IMMEDIATELY. THE LANDSCAPE CONTRACTOR SHALL NOT BE RESPONSIBLE TO HONOR ANY WARRANTY FOR THE LOSS OF ANY PLANT MATERIAL CAUSED BY FLOODING, FIRE, ABNORMAL FREEZING TEMPERATURES, WINDS OVER 50 MPH, LIGHTNING, ANY OTHER NATURAL DISASTER, OR ANY LOSS/DAMAGE CAUSED BY VANDALISM OR NEGLIGENCE ON THE PART OF THE OWNER.
- CALL BEFORE YOU DIG:** CONTRACTOR SHALL NOTIFY SUNSHINE 811 AND HAVE UTILITIES LOCATED, PRIOR TO DIGGING, BY CALLING 811. CONTRACTOR SHALL NOT PLANT TREES WITHIN 3' OF AN UNDERGROUND UTILITY, EITHER AS LOCATED OR AS SHOWN ON THE PLAN, WITHOUT FIRST OBTAINING WRITTEN PERMISSION FROM OWNER'S REPRESENTATIVE.
- RECORD DRAWINGS:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT 'REDLINED' MARK-UPS OF THE LANDSCAPE AND IRRIGATION IMPROVEMENTS. THESE AS-BUILT 'REDLINES' SHALL BE REPRESENTED ON ZEV COHEN & ASSOCIATES, INC. PLAN SHEETS AND PROVIDED TO THE LANDSCAPE ARCHITECT.
- CLEARANCE PRUNING:** ANY TREE PRUNING OF LOWER LIMBS AND CANOPY OF CONSERVED AND PROTECTED TREES THAT ARE GROWING OVER SIDEWALK, ROADWAY AND/OR ON-SITE CONSTRUCTION ACTIVITIES SHALL BE OVERSEEN AND/OR CONDUCTED BY AN I.S.A CERTIFIED ARBORIST TO ENSURE PROPER REDUCTION CUTS AND PRUNING IS CONDUCTED TO MAINTAIN THE STRUCTURAL INTEGRITY AND HEALTH OF THE TREE. TREES SHALL BE PRUNED TO ADHERE TO A MINIMUM OF EIGHT FEET (8') CLEARANCE OVER SIDEWALKS (PEDESTRIAN ACTIVITIES) AND SIXTEEN FEET (16') CLEARANCE OVER PARKING AREAS/ROADWAYS.

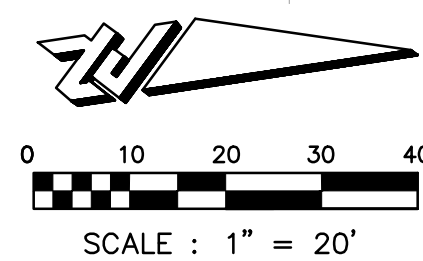
IRRIGATION NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING 'REDLINED' MARK-UPS OF THE IRRIGATION IMPROVEMENTS AND PROVIDE TO THE LANDSCAPE ARCHITECT.
- AN AUTOMATIC TIME CONTROLLED IRRIGATION SYSTEM WITH A RAIN SENSOR SHALL BE INSTALLED TO PROVIDE 100% HEAD TO HEAD COVERAGE OF ALL NEW PLANTINGS. IRRIGATION PLAN SHALL BE PROVIDED UPON SUBSTANTIAL SITE PLAN APPROVAL.



PLANT SCHEDULE

| TREES         | QTY      | BOTANICAL NAME                    | COMMON NAME                | SIZE                      | CONTAINER | REMARKS     |
|---------------|----------|-----------------------------------|----------------------------|---------------------------|-----------|-------------|
| ED            | 6        | FLAEOCARPUS DECIPENS TM           | JAPANESE BLUEBERRY TREE    | 2 1/2" CAL., 8" HT., MIN. |           |             |
| QV            | 8        | QUERCUS VIRGINIANA                | SOUTHERN LIVE OAK          | 3" D.B.H MIN., 10' HT.    |           | CLEAR TRUNK |
| SHRUBS        | QTY      | BOTANICAL NAME                    | COMMON NAME                | SIZE                      | CONTAINER | SPACING     |
| PM            | 163      | PODOCARPUS MACROPHYLLUS           | YEW                        | 36" HT. X 1 1/8" SP.      | 5 GAL.    | 24" o.c.    |
| RM            | 27       | ROSA X 'MEIGALPIO'                | RED DRIFT ROSE             | 1 1/8" HT. X 24-36" SP.   | 3 GAL.    | 30" o.c.    |
| VOD           | 125      | VIBURNUM OBOVATUM 'DENSE'         | DWARF WALTERS VIBURNUM     | 24" HT. X 24" SP.         | 7 GAL.    | 48" o.c.    |
| ZP            | 44       | ZAMIA PUMILA (ZAMIA FLORIDANA)    | COONTIE                    | 15" HT. X 1 1/8" SP.      | 3 GAL.    | 36" o.c.    |
| SHRUB AREAS   | QTY      | BOTANICAL NAME                    | COMMON NAME                | SIZE                      | CONTAINER | SPACING     |
| JCB           | 98       | JUNIPERUS CONFERTA 'BLUE PACIFIC' | BLUE PACIFIC SHORE JUNIPER | 4" HT. X 1 1/2" SP.       | 3 GAL.    | 36" o.c.    |
| GROUND COVERS | QTY      | BOTANICAL NAME                    | COMMON NAME                | SIZE                      | CONTAINER | SPACING     |
| DTV           | 34       | DIANELLA TASMANICA 'VARIEGATA'    | FLAX LILY                  | 1 1/2" HT. X 1 1/2" SP.   | 1 GAL.    | 24" o.c.    |
| SOD           | QTY      | BOTANICAL NAME                    | COMMON NAME                | SIZE                      | CONTAINER | SPACING     |
| PNA           | 2,429 SF | PASPALUM NOTATUM 'ARGENTINE'      | BAHIA GRASS                |                           |           |             |



MINIMUM ON SITE TREES

|                                                                          |         |
|--------------------------------------------------------------------------|---------|
| TOTAL SITE ACREAGE                                                       | .69 AC. |
| TREES REQUIRED ON SITE:<br>(CALCULATION: 30,056.4 AC. / 1,500 S.F. = 20) | 20      |
| EXISTING TREES TO BE PRESERVED                                           | 15      |
| TREES PROVIDED ON LANDSCAPE PLAN                                         | 14      |
| TOTAL NUMBER OF TREES PLANNED ON SITE                                    | 29      |



CIVIL ENGINEERING  
LANDSCAPE ARCHITECTURE  
ENVIRONMENTAL  
PLANNING  
TRANSPORTATION

FOR REVIEW ONLY NOT FOR CONSTRUCTION

SMCC PARKING LOT-PHASE 2  
FINAL ENGINEERING PLANS  
LANDSCAPE PLAN & DETAILS

PROJECT NO.: ZC 68003

DESIGNED BY: JES

DRAFTED BY: JES

CHECKED BY: SRB

DRAWING FILE: 68003LA\_PH2  
XREF'S: 68003BAS.DWG  
XREF'S: 68003SURV\_PH2.DWG

**Jake E Stehr** Digitally signed by Jake E Stehr  
Date: 2020.08.18 13:31:29 -04'00'

JAKE STEHR, LA, NO 6867462  
NOT VALID WITHOUT SEAL

SHEET: LA1 OF 7