

# Pender County Planning and Community Development

## Planning Division

805 S. Walker Street  
PO Box 1519  
Burgaw, NC 28425



Phone: 910-259-1202  
Fax: 910-259-1295  
[www.pendercountync.gov](http://www.pendercountync.gov)

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## All Saints Catholic Church Expansion

**Case Number:** SDP 2023-324

**Application Type:** Major Site Development

**Applicant:** All Saints Catholic Church

**Owners:** All Saints Catholic Church

**Location:** Along the western side of US HWY 17 in the Topsail Township.

**Property ID #(s):** 4204-42-0146-0000

**Description:** Request for the approval of a Major Site Development Plan for the development of a 20,263-sf commercial building addition with associated parking to the existing All Saints Catholic Church.

**Current Zoning:** PD, Planned Development

### Technical Review Committee Meeting

Thursday, March 2, 2023

### Board of County Commissioners/Planning Board Meeting

N/A

### Application Materials

Application Package

Approved Site Plan

# **APPLICATION PACKAGE**



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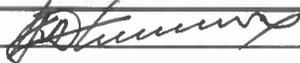
## MAJOR AND MINOR SITE DEVELOPMENT APPLICATION

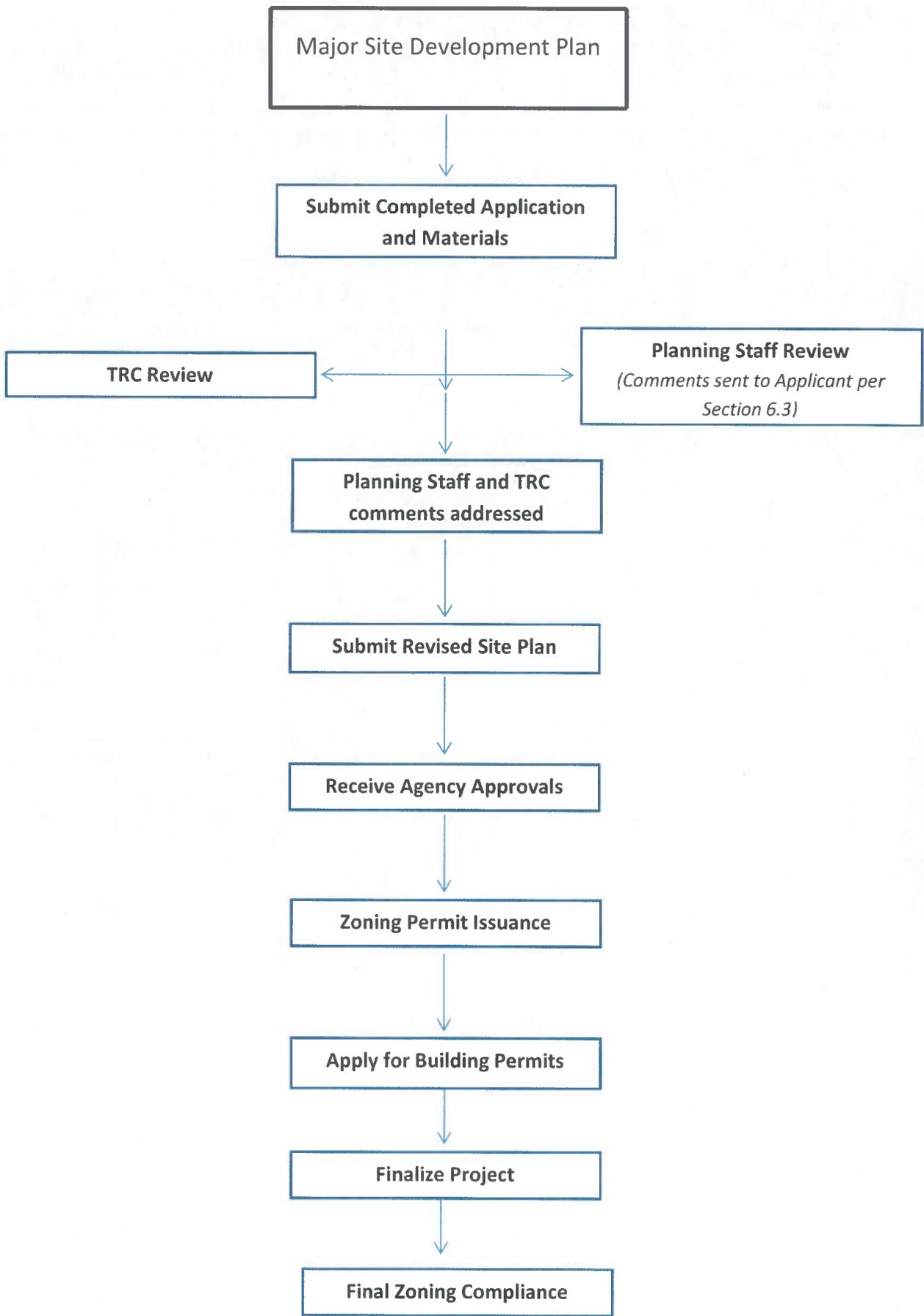
THIS SECTION FOR OFFICE USE			
Date:	Permit Number:	Permit Fee:	Invoice Number:
*Zoning Approval ONLY: YES / NO		Final Zoning Compliance Approved: YES / NO / N/A	
Type of Site Development Plan:	<input type="checkbox"/> Major	<input type="checkbox"/> Minor	
<b>SECTION 1: GENERAL INFORMATION</b>			
Applicant's Name:	All Saints Catholic Church	Property Owner's Name:	All Saints Catholic Church
Applicant's Address:	18737 US HWY 17	Property Owner's Address:	18737 US HWY 17
City, State, & Zip	Hampstead, NC 28443	City, State, & Zip	Hampstead, NC 28443
Phone Number:	910-270-1477	Phone Number:	910-270-1477
Email Address:	pastor@ascnc.org	Email Address:	pastor@ascnc.org
Legal relationship of applicant to land owner:			
<b>SECTION 2: PROJECT INFORMATION</b>			
PIN (Property Id #):	4204-42-0146-000	Total property acreage:	15.00
Zoning :	PD	Acreage to be disturbed:	5.0
Directions to Site:	From Intersection of US 17 and NC 210, travel North on US 17 4.2 miles. Site is located on Left		
Lot Size:	15 ac	Sq Ft of Building:	20,263 sf
Building Height:	44' 8"		
Setbacks	Front: 50	Side: 25	Rear: 25
NAICS Code/Use:			
Business Name:	All Saints Catholic Church		
Describe activities to be undertaken on project site:	Weekly Church Services.		
Ownership:	Number of Employees:	Number of Members:	Seating Capacity:
<input checked="" type="checkbox"/> Private <input type="checkbox"/> Public			750

*\*If the applicant is not the owner of the property, a notarized letter from the property owner may be required  
\*Zoning approval is for the use being proposed ONLY, other department approvals may be required i.e. Fire Marshal, Environmental Health, Permitting, etc...*

**SECTION 4: ADDITIONAL COMMENTS**


**SECTION 5: SIGNATURES**

Applicant:		Date:	
Owner:		Date:	
Planning Staff:		Date:	



Specific requirements can be found in Section 6.3 of the Pender County Unified Development Ordinance

## **Major Site Development Plan Specific Requirements**

### **1. Major Site Development Application Submittal**

- Site Plan (per Section 6.3)
  - Scale
  - North Arrow
  - All property information (zoning, setbacks, PIN #)
  - Adjacent property info (owner, zoning, use, PIN #)
  - References to any previously approved plans
  - Utility providers
  - All existing and proposed structures
  - Buffering (Section 8.2.6) & Landscaping (8.3)
  - Parking (Section 7.10)
  - Lighting
  - Cross Access Connections (Section 7.4.4)
  - AM/PM Peak Hour Trip Calculations (TIA required with 100 AM/PM trips or >1,000 trips per day)
  - Soil Erosion and Sedimentation Control Plan
  - Location of all environmental features
  - Stormwater management features
  - Proposed accesses, easements, streets, and sidewalks
- Permits received

### **2. TRC Meeting**

- Site Plan Review
- Agency comments/requirements

### **3. Post-TRC Meeting**

- Submit site plan with revisions
- Receive agency approvals
- Forward all agency approvals to Planning Staff.

### **4. Approval of Site Plan**

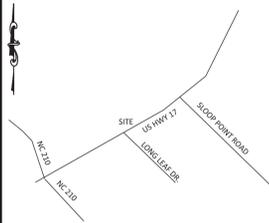
- All TRC comments and agency requirements addressed
- Zoning approval allows for building permit process to begin
- Apply for building permits

### **5. Final Zoning**

- Site Visit to check the following:
  - Landscaping
  - Buffering
  - Parking

# **SITE PLAN(S)**

LOCATION MAP



CONSTRUCTION DRAWINGS FOR  
**ALL SAINTS CATHOLIC CHURCH**  
 LOCATED IN PENDER COUNTY, NORTH CAROLINA



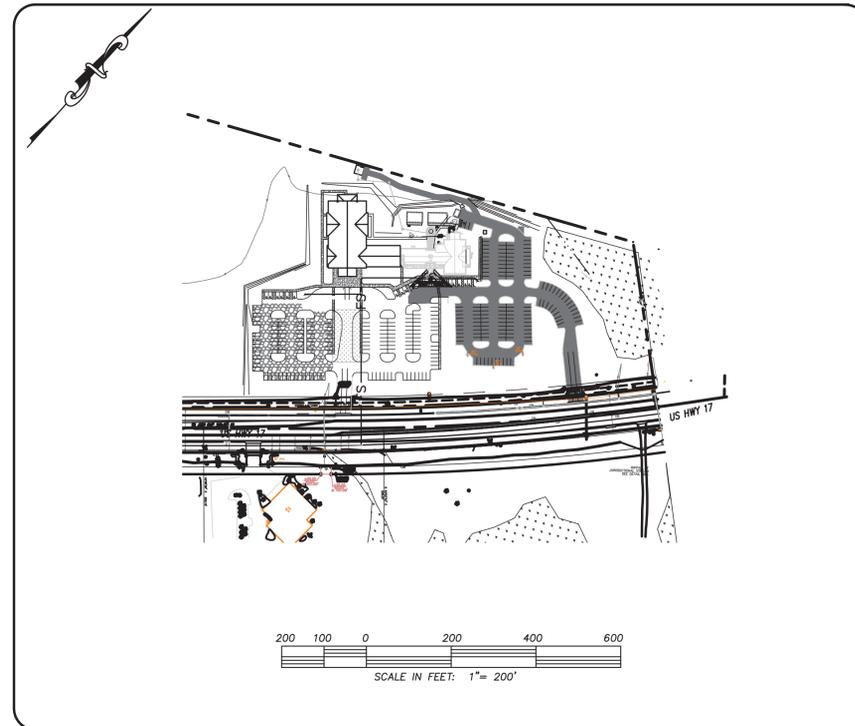
LICENSE # C-2710  
 ENGINEERING  
 LAND PLANNING  
 COMMERCIAL / RESIDENTIAL

P.O. BOX 4041  
 WILMINGTON, NC 28406  
 (910) 791-4441

COVER SHEET  
 for  
**ALL SAINTS CATHOLIC CHURCH**

CONSTRUCTION DRAWINGS for  
**ALL SAINTS CATHOLIC CHURCH**  
 LOCATED IN GRADY TOWNSHIP  
 PENDER COUNTY, NORTH CAROLINA

OWNER: ALL SAINTS CATHOLIC CHURCH  
 18737 US HWY 17  
 HAMPSTEAD NC, 28443



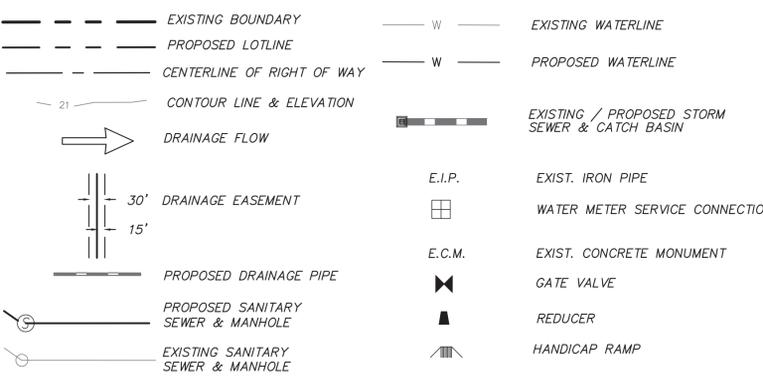
**NOTES:**

- BOUNDARY AND TOPOGRAPHY SURVEY PERFORMED BY MICHAEL UNDERWOOD AND ASSOCIATES.
- THIS MAP IS NOT FOR CONVEYANCE, RECORDATION, OR SALES.
- THIS PROPERTY IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA ACCORDING TO FEMA MAPS.
- THIS PROPERTY IS ZONED PD
- PENDER COUNTY UTILITIES WATER
- PRIVATE SEWER PUMPSTATION
- ALL CONSTRUCTION TO CONFORM TO PENDER COUNTY STANDARDS AND APPLICABLE STATE & LOCAL CODES.
- CONTRACTOR TO COORDINATE ANY REQUIRED TRAFFIC CONTROL WITH THE NCDOT.
- CARE SHALL BE TAKEN DURING FINAL GRADING TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND TO RECEIVING SWALES. ROOF DRAIN DOWNSPOUTS TO BE DIRECTED TO STREETS AND DRAINAGE SWALES.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ANY RELOCATIONS, RE-ALIGNMENTS, DISCONNECTIONS OR CONNECTIONS OF EXISTING UTILITIES WITH APPLICABLE AUTHORITIES.
- CLEARING AND GRUBBING OF SITE TO INCLUDE REMOVAL OF EXISTING CURB, ASPHALT, INLETS, AND ANY OTHER STRUCTURES INCLUDING TREES, STUMPS AND DEBRIS EXISTING ON SITE. TREES NOT REQUIRED TO BE CLEARED FOR CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE DIRECTED.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES AT ALL CROSSINGS PRIOR TO COMMENCING TRENCH EXCAVATION. IF ACTUAL CLEARANCES ARE LESS THAN INDICATED ON PLAN, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. ANY CONDITION DISCOVERED OR EXISTING THAT WOULD NECESSITATE A MODIFICATION OF THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
- NO CONSTRUCTION IS TO BEGIN BEFORE LOCATION OF EXISTING UTILITIES HAS BEEN DETERMINED. CALL "NO ONE-CALL" AT LEAST 72 HOURS BEFORE COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE & CURB BOXES TO FINAL GRADE UPON COMPLETION OF ALL CONSTRUCTION. ANY BOXES DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST AND EROSION DURING CONSTRUCTION AT HIS EXPENSE. PARKING AREAS SHALL BE WATERED TO CONTROL DUST WHEN ORDERED BY THE ENGINEER.
- NO GEOTECHNICAL TESTING HAS BEEN PERFORMED ON SITE. NO WARRANTY IS MADE FOR SUITABILITY OF SUBGRADE, AND UNDERCUT AND ANY REQUIRED REPLACEMENT WITH SUITABLE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR TO ENSURE THAT PAVEMENT IS PLACED SO AS TO DRAIN POSITIVELY TO THE ROADSIDE SWALES. ALL FUTURE ROOF DRAIN DOWNSPOUTS TO BE DIRECTED TO ROADSIDE SWALES.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.
- THIS PLAN IS FOR SITE GRADING, UTILITIES, SITING, AND DRAINAGE ONLY. SEE BUILDING PLANS FOR DETAILED HOOKUPS TO BUILDINGS, ETC.
- CONTRACTOR AND BUILDER ARE RESPONSIBLE FOR COORDINATING FINISHED FLOOR ELEVATION OF ALL BUILDINGS WITH THE OWNER. ELEVATIONS GIVEN ARE MINIMUM GROUND ELEVATIONS AT THE BUILDING SITE AND DO NOT PURPORT TO BE FINISHED FLOOR. MINIMUM RECOMMENDED FF ELEVATIONS SHOWN ON PLANS.
- AFFECTED NON-MUNICIPAL UTILITIES SHALL BE CONTACTED AND PROVIDED WITH PLANS AND OTHER PERTINENT INFORMATION, WHEN FEASIBLE, TO COORDINATE APPROPRIATE SCHEDULING AND PLACEMENT.
- EXTREME CARE SHALL BE TAKEN TO ENSURE MINIMUM SEPARATIONS AT ALL UTILITY CROSSINGS.
- MINIMUM SEPARATION SHALL BE MAINTAINED AS FOLLOWS:
  - HORIZONTAL SEPARATION OF 10 FEET BETWEEN SANITARY SEWER AND WATER MAINS AND STORM SEWER.
  - WHERE VERTICAL CLEARANCE IS LESS THAN 24" BETWEEN SANITARY SEWER AND WATER OR WHERE SEWER LINE CROSSES ABOVE WATER MAIN, BOTH PIPES SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10' EITHER SIDE OF CROSSING.
  - WHERE VERTICAL CLEARANCE IS LESS THAN 24" BETWEEN SANITARY SEWER AND STORM DRAIN, SANITARY SEWER SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10 FEET EITHER SIDE OF CROSSING.
  - WHERE VERTICAL CLEARANCE IS LESS THAN 12" BETWEEN SANITARY SEWER AND STORM DRAIN, SANITARY SEWER SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10' EITHER SIDE OF CROSSING, AND BRIDGING SHALL BE INSTALLED PER APPLICABLE UTILITY AUTHORITY'S DETAILS.
  - IN NO CASE SHALL THERE BE LESS THAN 18" OF SEPARATION BETWEEN OUTSIDE OF WATER MAIN AND OUTSIDE OF SEWER OR STORM DRAINAGE.
  - MINIMUM COVER OF 36" SHALL BE PROVIDED FOR ALL BURIED WATER MAINS AND SANITARY SEWER MAINS.
- SEE DETAIL SHEETS FOR TYPICAL UTILITIES HOOKUPS.
- ALL WATER MAINS TO BE 6" UNLESS OTHERWISE INDICATED.
- TWO VALVES ARE REQUIRED AT "T" INTERSECTIONS AND ONE VALVE ON THE WATER LINE TO FIRE HYDRANTS.
- A BLOW-OFF VALVE IS REQUIRED AT THE TERMINUS OF ALL "DEAD END" WATER LINES.

**GENERAL NOTES:**

- PENDER COUNTY PARCEL NUMBERS:  
 PIN = 4204-42-0146-0000
- DEED BOOK 771 PG 155; PB 23 PG 123
- TOTAL PROJECT AREA: 15.00 AC
- EXISTING ZONING DISTRICT: PD
- LAND CLASSIFICATION: COMMERCIAL
- THIS SITE IS LOCATED WITHIN ZONE "X" ACCORDING TO FEMA FIRM COMMUNITY PANEL NUMBER 37204204001, EFFECTIVE DATE 02/16/07
- SITE ADDRESS: 18737 US HWY 17
- TOPOGRAPHIC AND BOUNDARY SURVEY PROVIDED BY MICHAEL UNDERWOOD PLS, VERTICAL DATUM = 88
- STORMWATER DRAINS TO UT TO NIXON CREEK, SA;HOW 18-87-11
- FIRE DISTRICT: SLOOP POINT.
- LAND OWNER - ROMAN CATHOLIC DIOCESES OF RALEIGH NC  
 7200 STONEHENGE DR.  
 RALEIGH, NC 27613

**LEGEND**



INDEX TO DRAWINGS

SHEET No.	DESCRIPTION	DRAWING No.
C1 OF C12	COVER SHEET	CD_COV
C2 OF C12	EXISTING CONDITIONS	EX_COND
C3 OF C12	SITE PLAN	SITE_PLAN
C4 OF C12	UTILITY PLAN	PP1
C5 OF C12	GRADING PLAN	GP
C6 OF C12	LANDSCAPE PLAN	LP
C7 OF C12	SITE DETAILS	SITE_DETAILS
C8 OF C12	UTILITY DETAILS	UTILITY_DETAILS
C9 OF C12	STORMWATER AND EROSION CONTROL PLAN	EC1
C10 OF C12	STORMWATER AND EROSION CONTROL PLAN	EC2
C11 OF C12	STORMWATER AND EROSION CONTROL PLAN	EC3
C12 OF C12	STORMWATER AND EROSION CONTROL PLAN	EC4

OWNER: ALL SAINTS CATHOLIC CHURCH  
 18737 US HWY 17  
 HAMPSTEAD NC, 28443

REV.	NO.	DATE	BY	REMARKS

DATE: 12-9-22  
 HORZ SCALE: 1" = 200'  
 VERT SCALE: N/A  
 DRAWN BY: RLW  
 CHECKED BY: HSR  
 PROJECT NO.: 22-0620  
 Sheet No. **C1** of **C12**

EXISTING CONDITIONS  
for  
ALL SAINTS CATHOLIC CHURCH

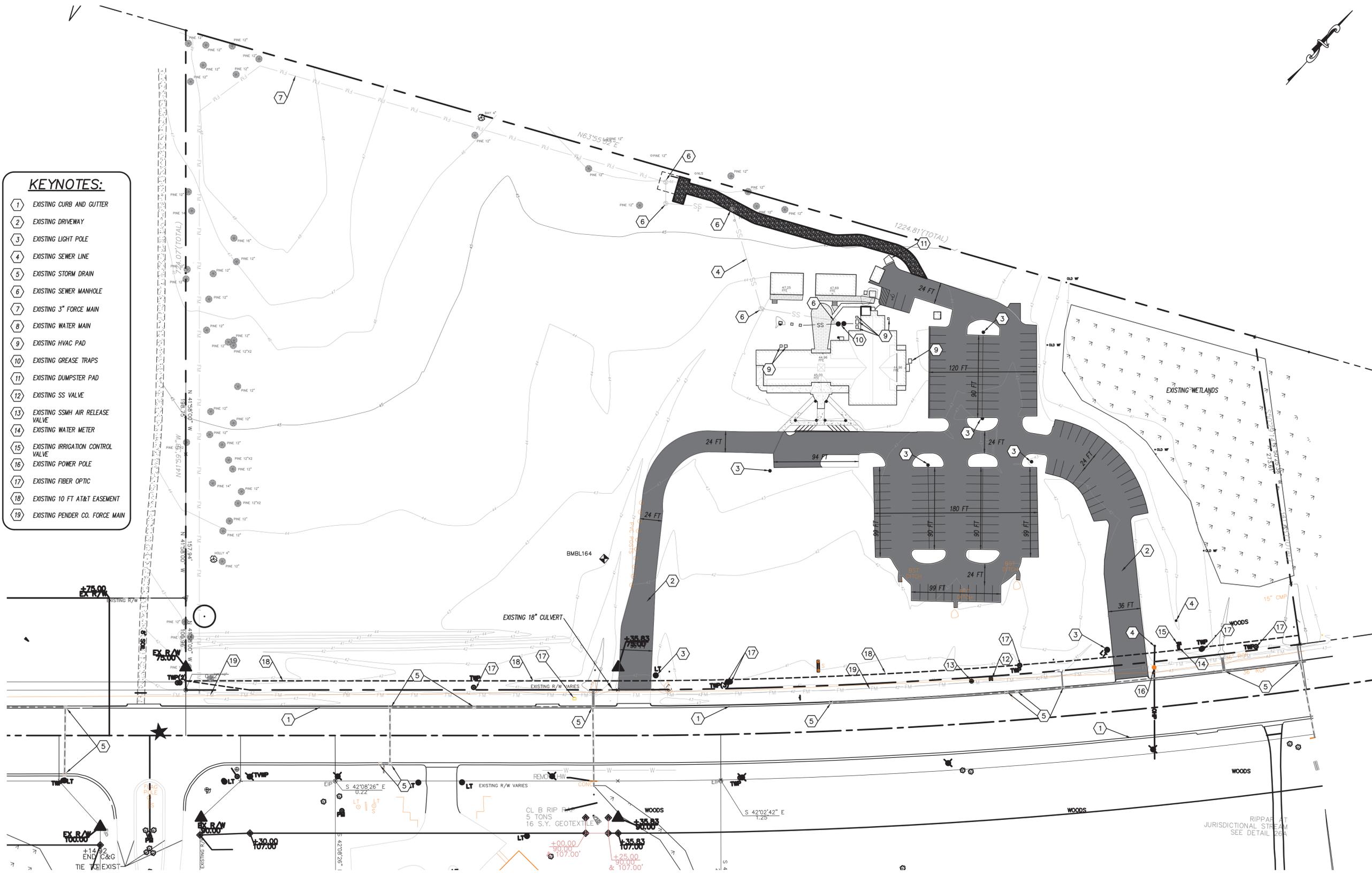
EXISTING CONDITIONS FOR  
ALL SAINTS CATHOLIC CHURCH  
LOCATED IN HAMPSHIRE TOWNSHIP  
PENDER COUNTY, NORTH CAROLINA  
OWNER: ALL SAINTS CATHOLIC CHURCH  
18737 US HWY 17  
HAMPSHIRE NC, 28443



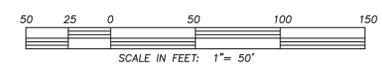
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DATE: 12-9-22  
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VERT. SCALE: N/A  
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CHECKED BY: HSR  
PROJECT NO.: 22-0620

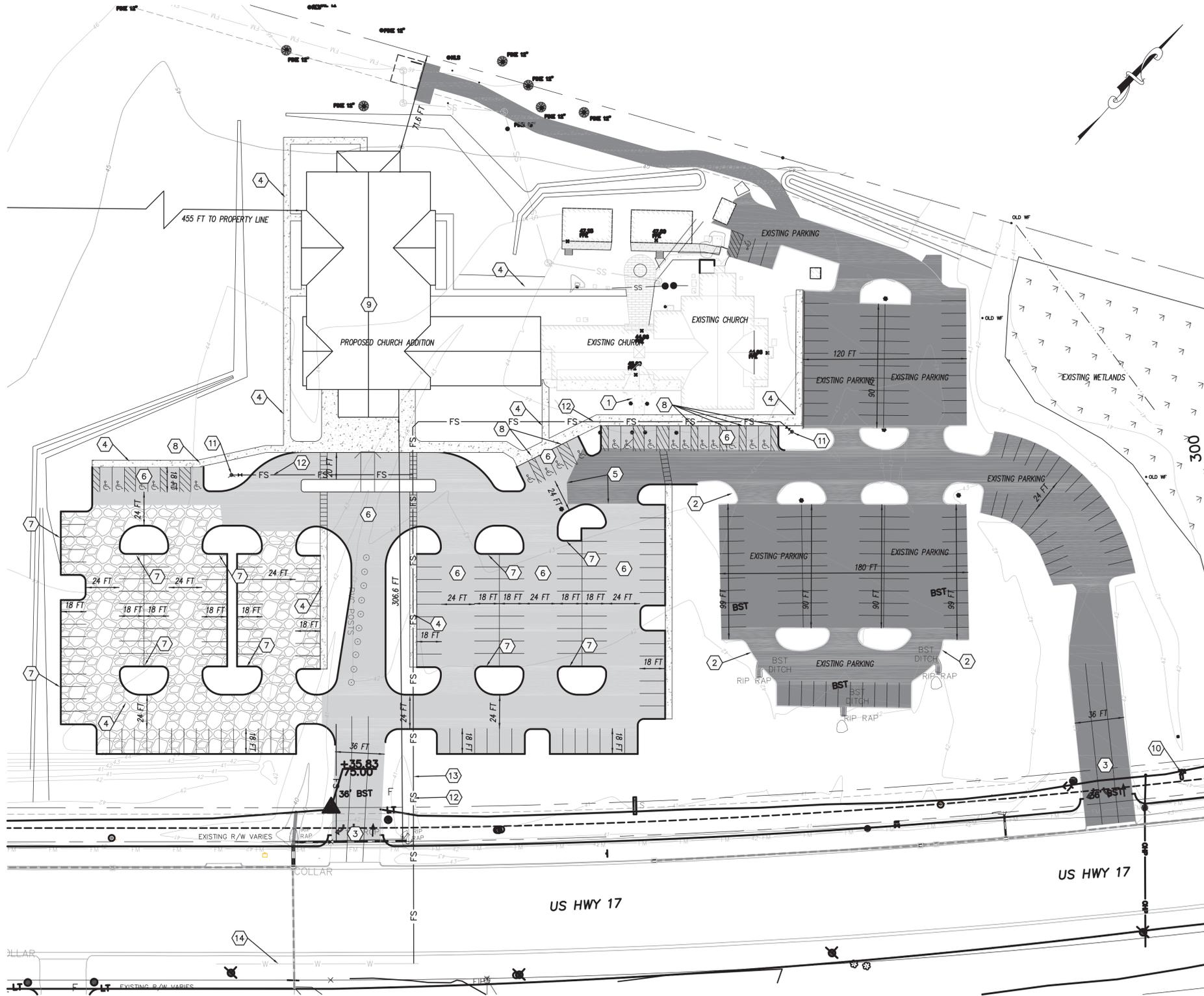
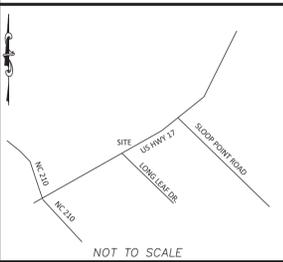
Sheet No. **C2** of **C12**



- KEYNOTES:**
- 1 EXISTING CURB AND GUTTER
  - 2 EXISTING DRIVEWAY
  - 3 EXISTING LIGHT POLE
  - 4 EXISTING SEWER LINE
  - 5 EXISTING STORM DRAIN
  - 6 EXISTING SEWER MANHOLE
  - 7 EXISTING 3" FORCE MAIN
  - 8 EXISTING WATER MAIN
  - 9 EXISTING HVAC PAD
  - 10 EXISTING GREASE TRAPS
  - 11 EXISTING DUMPSTER PAD
  - 12 EXISTING SS VALVE
  - 13 EXISTING SSMH AIR RELEASE VALVE
  - 14 EXISTING WATER METER
  - 15 EXISTING IRRIGATION CONTROL VALVE
  - 16 EXISTING POWER POLE
  - 17 EXISTING FIBER OPTIC
  - 18 EXISTING 10 FT. AT&T EASEMENT
  - 19 EXISTING PENDER CO. FORCE MAIN



# LOCATION MAP



## KEYNOTES:

- 1 EXISTING SIDEWALK
- 2 EXISTING CURB AND GUTTER
- 3 EXISTING DRIVEWAY
- 4 PROPOSED SIDEWALK
- 5 SAW CUT EXISTING ASPHALT
- 6 PROPOSED ASPHALT
- 7 PROPOSED CURB AND GUTTER
- 8 PROPOSED HC RAMP
- 9 PROPOSED BUILDING
- 10 EXISTING WATER METER
- 11 PROP. FIRE HYDRANT
- 12 PROP. 6" FIRE LINE
- 13 PROP. 6" BACK FLOW PREVENTER
- 14 EX. 16" WATER MAIN

## LEGEND

- EXISTING BOUNDARY
- ▨ EXISTING BUILDING
- SS--- EXISTING SEWER
- EXISTING STORM DRAIN
- EXISTING SIDEWALK
- PROPOSED FIRE HYDRANT
- PROPOSED SIDEWALK
- PROPOSED STORM DRAIN
- SS--- PROPOSED SEWER
- W--- PROPOSED WATER
- ▭ PROPOSED BUILDING
- ▨ PROPOSED ASPHALT
- ▨ PROPOSED GRAVEL
- FRONT SETBACK LINE
- SEWER MANHOLE

## GENERAL NOTES:

- PENDER COUNTY PARCEL NUMBERS:  
PIN = 4204-42-0146-0000
- DEED BOOK 771 PG 155; PB 23 PG 123
- TOTAL PROJECT AREA: 15.00 AC
- EXISTING ZONING DISTRICT: PD
- LAND CLASSIFICATION: COMMERCIAL
- THIS SITE IS LOCATED WITHIN ZONE "X" ACCORDING TO FEMA FIRM COMMUNITY PANEL NUMBER 3720420400J, EFFECTIVE DATE 02/16/07
- SITE ADDRESS: 18737 US HWY 17
- TOPOGRAPHIC AND BOUNDARY SURVEY PROVIDED BY MICHAEL UNDERWOOD PLS, VERTICAL DATUM = 88
- STORMWATER DRAINS TO UT TO NIXON CREEK, SA; HOW 18-87-11
- FIRE DISTRICT: SLOOP POINT
- LAND OWNER - ROMAN CATHOLIC DIOCESE OF RALEIGH NC  
7200 STONEHENGE DR.  
RALEIGH, NC 27613

## SITE & BUILDING DATA:

TOTAL LOT AREA = 653,267 SF (15.00 AC)  
EXISTING IMPERVIOUS:

EX. BUILDING	= 11,166 SF
EX. PARKING/PAVEMENT	= 66,188 SF
EX. SIDEWALK	= 3,833 SF
<b>TOTAL:</b>	<b>= 81,187 SF</b>

PROPOSED IMPERVIOUS:

EX. BUILDING	= 11,166 SF
EX. PARKING/PAVEMENT	= 66,061 SF
EX. SIDEWALK	= 2,894 SF
PROP. BUILDING	= 20,263 SF
PROP. ASPHALT	= 51,241 SF
PROP. SIDEWALK	= 10,537 SF
FUTURE	= 88 SF
<b>TOTAL:</b>	<b>= 162,250 SF</b>

162,250 / 653,267 = 0.248 OR 25% IMPERVIOUS

SOILS ON SITE:  
LnA - LEON; SCS SOIL GROUP "A/D"  
Mu - MURVILLE; SCS SOIL GROUP "A/D"

SETBACKS: REQUIRED PROVIDED

FRONT	50	306.6 FT
SIDE	25	WEST 455 FT, EAST 550 FT
REAR	25	71.6 FT

BUILDING HEIGHT (PROP. BUILDING) = 44 FT 8" TO ROOF PEAK  
NUMBER OF STORIES = 1  
BUILDING TYPE = IIB  
NUMBER OF BUILDINGS = 2  
BUILDING AREA: 31,429 SF (FOOTPRINT)  
LOT COVERAGE: 31,429 SF / 653,267 SF = 0.048  
PROPOSED 5% BUILDING LOT COVERAGE

PROPOSED USES:  
CHURCH  
ITE CODE 560 (CHURCH)  
AM PEAK = 18 PM PEAK = 0

PARKING MINIMUM REQUIREMENTS:  
1 PER 28 SF OF AVAILABLE SEATING IN THE ASSEMBLY AREA  
316 SPACES PROVIDED



LICENSE # C-2710  
ENGINEERING  
LAND PLANNING  
COMMERCIAL / RESIDENTIAL

P.O. BOX 4041  
WILMINGTON, NC 28406  
(910) 791-4441

SITE PLAN FOR  
ALL SAINTS CATHOLIC CHURCH

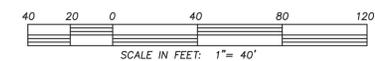
SITE PLAN FOR  
ALL SAINTS CATHOLIC CHURCH  
LOCATED IN HAMPSTEAD TOWNSHIP  
PENDER COUNTY, NORTH CAROLINA  
OWNER: ALL SAINTS CATHOLIC CHURCH  
18737 US HWY 17  
HAMPSTEAD NC, 28443

FINAL DESIGN  
NOT RELEASED  
FOR CONSTRUCTION

REV. NO.	DATE	BY	REMARKS
1	1-11-23	REW	REMOVED CULVERT HEADWALL

DATE: 12-9-22  
HORZ. SCALE: 1" = 40'  
VERT. SCALE: N/A  
DRAWN BY: JLH  
CHECKED BY: HSR  
PROJECT NO.: 22-0620

Sheet No. **C3** of **C12**





GRADING PLAN  
for  
**ALL SAINTS CATHOLIC CHURCH**

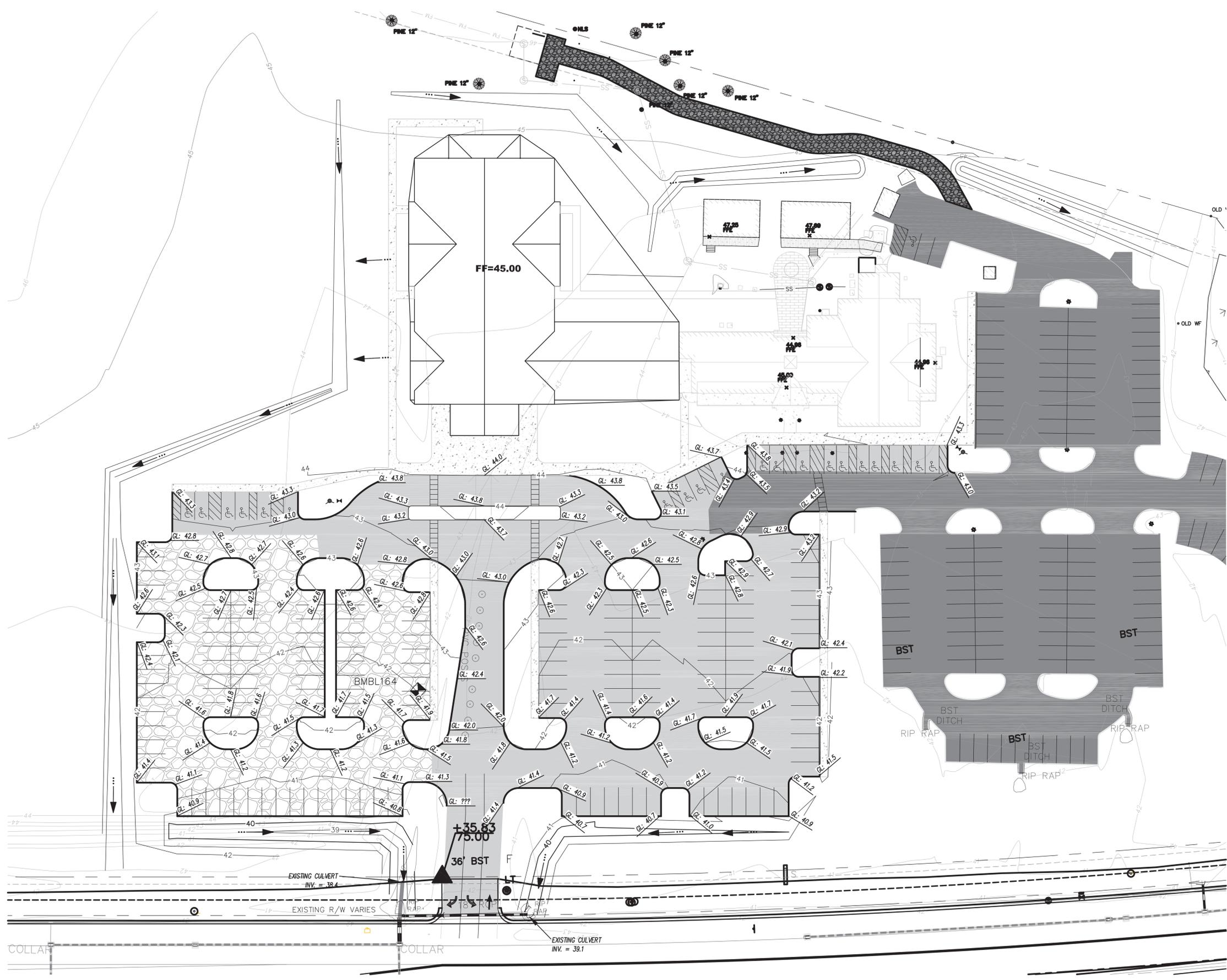
GRADING PLAN FOR  
**ALL SAINTS CATHOLIC CHURCH**  
LOCATED IN HAMPSTEAD TOWNSHIP  
PENDER COUNTY, NORTH CAROLINA  
OWNER: ALL SAINTS CATHOLIC CHURCH  
18237 US HWY 17  
HAMPSTEAD NC, 28443

FINAL DESIGN  
NOT RELEASED  
FOR CONSTRUCTION

REV. NO.	BY	DATE	REMARKS
2	REMOVED CULVERT HEADWALL	1-11-23	
1	REVISED PER DEQ SUBMITTAL MEETING COMMENTS	12-14-22	

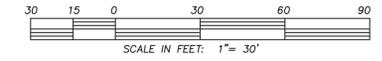
DATE: 12-9-22  
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CHECKED BY: HSR  
PROJECT NO.: 22-0620

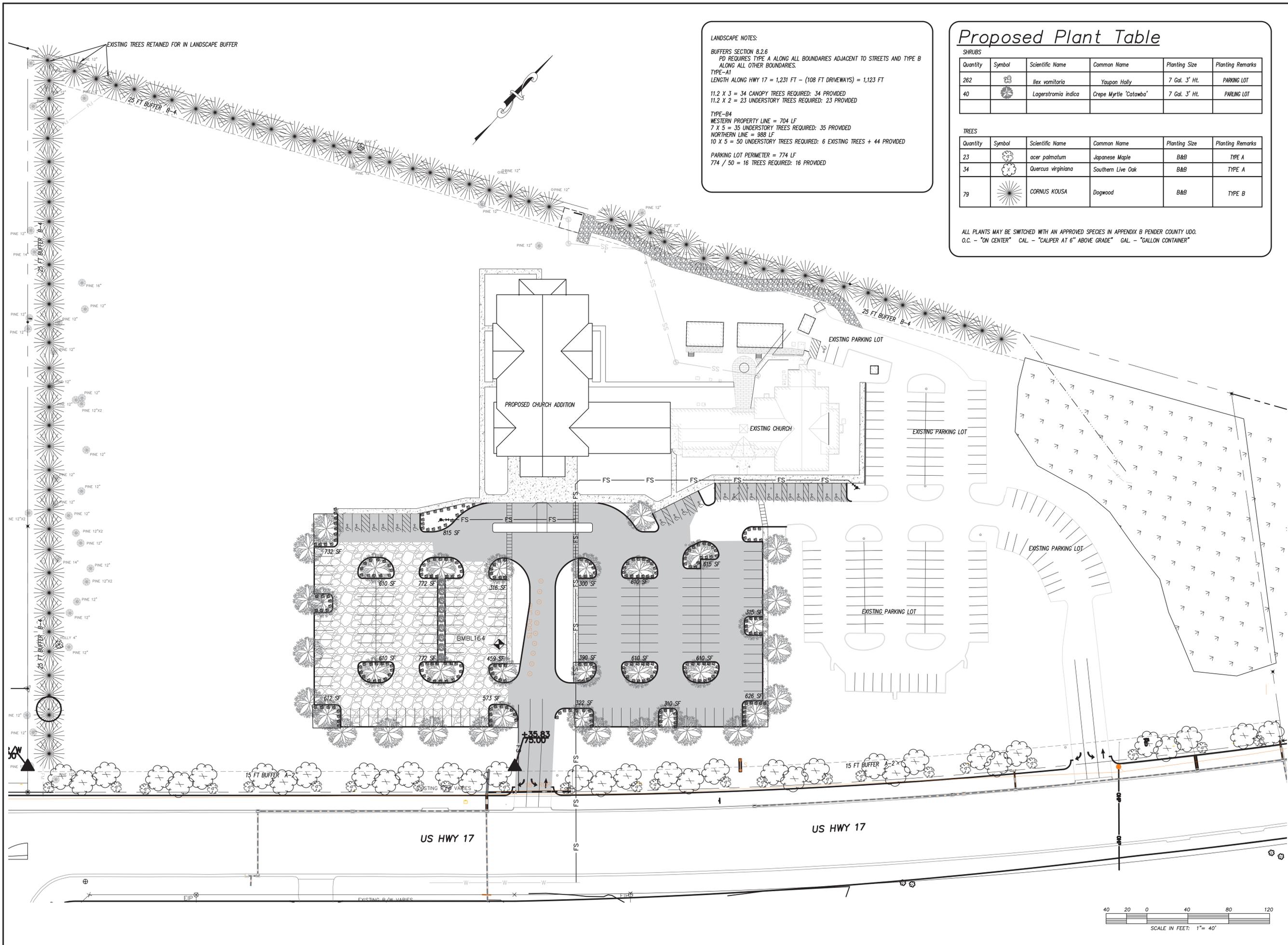
Sheet No. **C5** of **C12**



- GRADING NOTES:**
1. CONTRACTOR TO MAKE SMOOTH TRANSITION FROM INVERTED CROWN TO SHEET FLOW IN DESIGNATED AREAS
  2. CONTRACTOR TO ENSURE POSITIVE DRAINAGE IN ALL FINISHED AREAS.
  3. BUILDING ROOF DRAINS TO USE SPLASH BLOCKS AND BE DIRECTED PARKING AREAS TO SHEET FLOW TO ADJACENT WETLANDS.
  4. CONTRACTOR TO ENSURE PUBLIC SIDEWALKS MEET CITY OF WILMINGTON CROSS-SECTION.
  5. CONTRACTOR TO ENSURE PROPER INSTALLATION OF ADA ACCESSIBLE ROUTE PER LATEST ADA GUIDELINES.

- GRADING KEY**
- GL - GUTTER LINE OF CURB
  - TC - TOP OF CURB
  - EP - EDGE OF PAVEMENT
  - FS - FINISHED SURFACE
  - TSW - TOP OF SIDEWALK (PROPOSED)
  - HP - HIGH POINT
  - TB - TOP OF BOX (ACCESS COVER)
  - FL - FLOW LINE
- EXISTING / PROPOSED STORM SEWER & CATCH BASIN  
 PROP. DRAINAGE FLOW





**LANDSCAPE NOTES:**

BUFFERS SECTION 8.2.6  
 PD REQUIRES TYPE A ALONG ALL BOUNDARIES ADJACENT TO STREETS AND TYPE B ALONG ALL OTHER BOUNDARIES.

TYPE-A1  
 LENGTH ALONG HWY 17 = 1,231 FT - (108 FT DRIVEWAYS) = 1,123 FT

11.2 X 3 = 34 CANOPY TREES REQUIRED: 34 PROVIDED  
 11.2 X 2 = 23 UNDERSTORY TREES REQUIRED: 23 PROVIDED

TYPE-B4  
 WESTERN PROPERTY LINE = 704 LF  
 7 X 5 = 35 UNDERSTORY TREES REQUIRED: 35 PROVIDED  
 NORTHERN LINE = 988 LF  
 10 X 5 = 50 UNDERSTORY TREES REQUIRED: 6 EXISTING TREES + 44 PROVIDED

PARKING LOT PERIMETER = 774 LF  
 774 / 50 = 16 TREES REQUIRED: 16 PROVIDED

**Proposed Plant Table**

SHRUBS

Quantity	Symbol	Scientific Name	Common Name	Planting Size	Planting Remarks
262		<i>Ilex vomitoria</i>	Yaupon Holly	7 Gal. 3' Ht.	PARKING LOT
40		<i>Lagerstromia indica</i>	Crepe Myrtle 'Catawba'	7 Gal. 3' Ht.	PARKING LOT

TREES

Quantity	Symbol	Scientific Name	Common Name	Planting Size	Planting Remarks
23		<i>acer palmatum</i>	Japanese Maple	B&B	TYPE A
34		<i>Quercus virginiana</i>	Southern Live Oak	B&B	TYPE A
79		CORNUS KOUSA	Dogwood	B&B	TYPE B

ALL PLANTS MAY BE SWITCHED WITH AN APPROVED SPECIES IN APPENDIX B PENDER COUNTY UDO.  
 O.C. - "ON CENTER" CAL - "CALIPER AT 6" ABOVE GRADE" GAL - "GALLON CONTAINER"

**CSD ENGINEERING**

LICENSE # C-2710  
 ENGINEERING  
 LAND PLANNING  
 COMMERCIAL / RESIDENTIAL

P.O. BOX 4041  
 WILMINGTON, NC 28406  
 (910) 791-4441

LANDSCAPE PLAN  
 for  
**ALL SAINTS CATHOLIC CHURCH**

SITE PLAN FOR  
**ALL SAINTS CATHOLIC CHURCH**  
 LOCATED IN HAMPSHIRE TOWNSHIP  
 PENDER COUNTY, NORTH CAROLINA

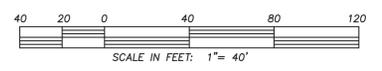
OWNER: ALL SAINTS CATHOLIC CHURCH  
 18737 US HWY 17  
 HAMPSHIRE NC, 28443

**PRELIMINARY**

REV. NO.	REMARKS	BY	DATE

DATE: 1-9-23  
 HORZ. SCALE: 1" = 40'  
 VERT. SCALE: N/A  
 DRAWN BY: JLH  
 CHECKED BY: HSR  
 PROJECT NO.: 22-0620

Sheet No. **C6** of **C12**



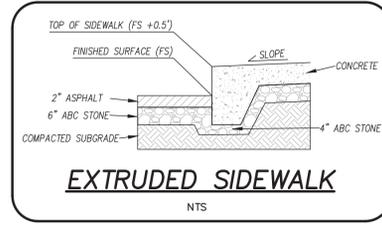
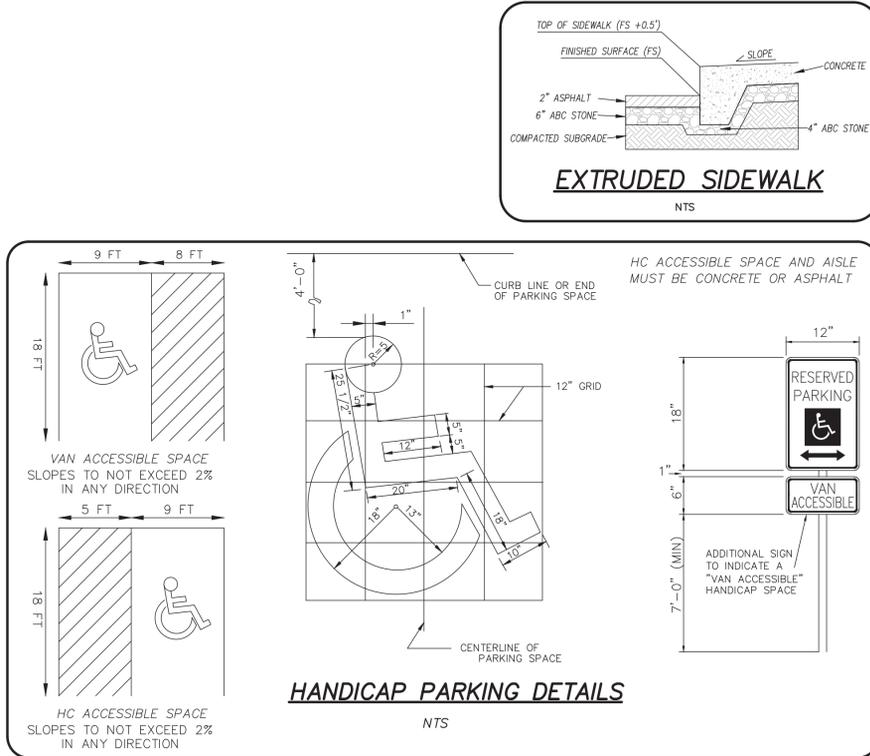
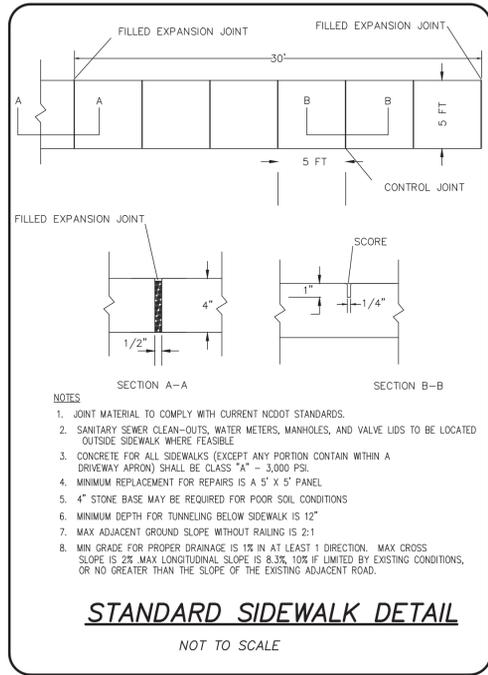
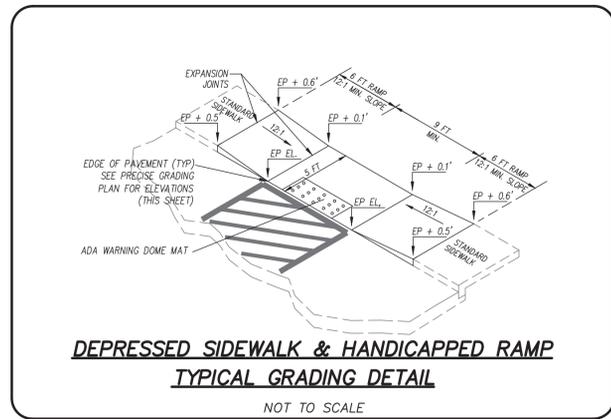
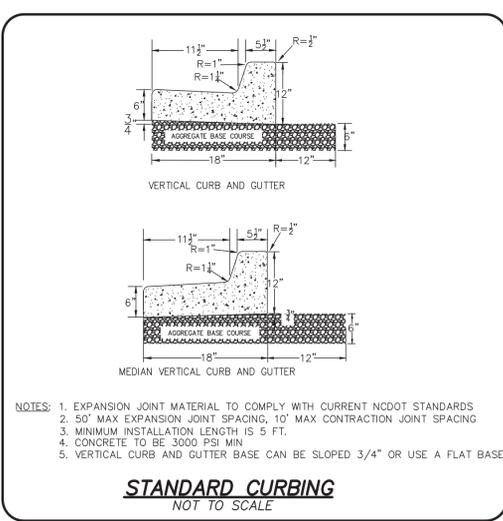
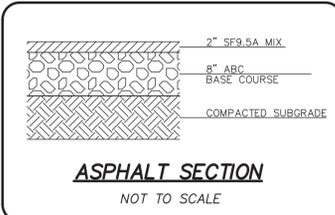
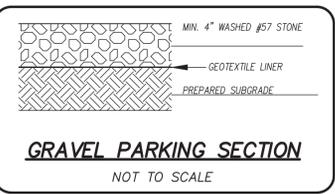
SITE DETAILS  
FOR  
**ALL SAINTS CATHOLIC CHURCH**

**ALL SAINTS CATHOLIC CHURCH**  
LOCATED IN GRADY TOWNSHIP  
PENDER COUNTY, NORTH CAROLINA  
OWNER: ALL SAINTS CATHOLIC CHURCH  
HAMPSSTEAD NC, 28443



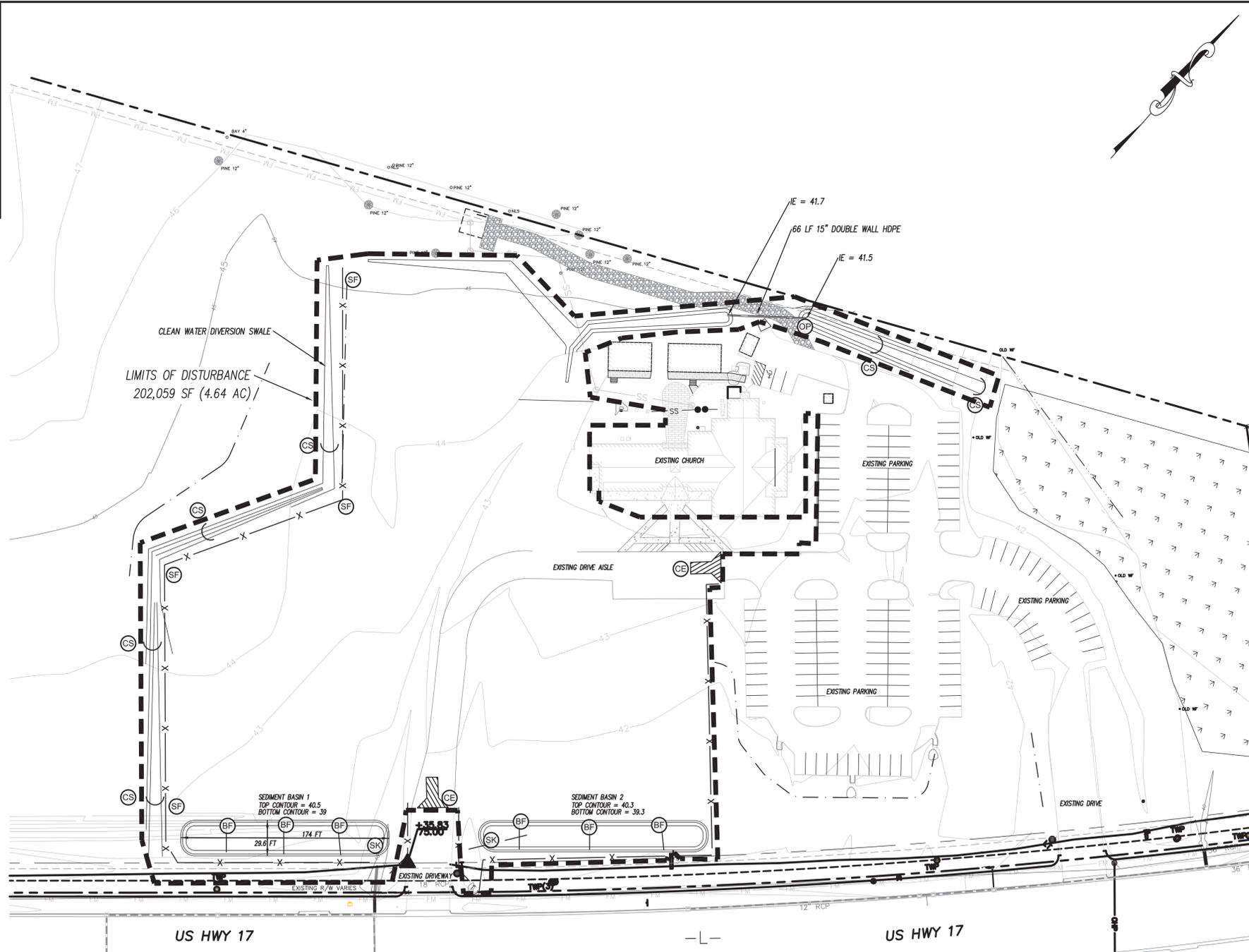
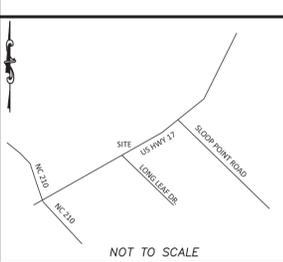
REV. NO.	DATE	BY	REMARKS

DATE: 12-9-22  
HORZ. SCALE: N/A  
VERT. SCALE: N/A  
DRAWN BY: RLW  
CHECKED BY: HSR  
PROJECT NO.: 22-0620





# LOCATION MAP

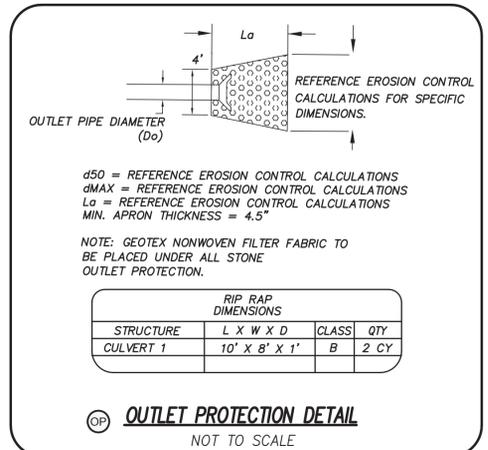


- CONSTRUCTION SCHEDULE -**
- OBTAIN APPROVAL OF PLAN AND ANY NECESSARY PERMITS, AND HOLD A PRE-CONSTRUCTION CONFERENCE PRIOR TO COMMENCING ANY WORK.
  - FLAG WORK LIMITS AND STAKE-OUT SWALES AND SEDIMENT BASINS FOR PRELIMINARY GRADING.
  - INSTALL GRAVEL CONSTRUCTION ENTRANCES.
  - INSTALL SILT FENCING PRIOR TO ROUGH GRADING THE REMAINING SITE AND ANY STOCKPILING OF MATERIAL AND TOPSOIL AS NECESSARY.
  - CONSTRUCT SWALES, GRASS LINED CHANNELS, INSTALL SKIMMER AND ANY OTHER SEDIMENT CONTROL PRACTICES SHOWN, PRIOR TO ROUGH GRADING ROADWAYS AND SITE, STOCKPILING TOPSOIL AS NECESSARY.
  - INSTALL UTILITIES IN PARKING AREAS, ESTABLISH FINAL ROAD GRADES AND STABILIZE ROAD WITH STONE BASE COURSE.
  - FINAL GRADE, INSTALL NON-MUNICIPAL UTILITIES AS NEEDED, AND VEGETATIVELY STABILIZE AREAS WHERE BUILDING CONSTRUCTION IS NOT IMMINENT.
  - ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSPECTED WEEKLY AND AFTER ANY RAINFALL, AND REPAIRED AS NECESSARY.
  - UPON COMPLETION OF CONSTRUCTION, THE PARKING AREAS IS TO BE PAVED AND ALL AREAS PERMANENTLY VEGETATIVELY STABILIZED. AFTER SITE STABILIZATION, TEMPORARY MEASURES ARE TO BE REMOVED.
- MAINTENANCE PLAN -**  
(GENERAL NOTES, NOT ALL ITEMS ARE APPLICABLE TO THIS PROJECT)
- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY 0.5" RAINFALL.
  - THE PROPOSED DRIVEWAY WILL HAVE A CONSTRUCTION ENTRANCE THAT WILL PERIODICALLY TOP-DRESS WITH AND ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED, WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS.
  - SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX, WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET MAX, WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.
  - SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE DESIGN STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR THE ROCK IS DISLOGGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED FROM BAFFLES WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED WEEKLY AND WILL BE KEPT CLEAN.
  - ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEED AS NECESSARY AND MULCHED ACCORDING TO THE SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL SLOPES WILL BE STABILIZED WITHIN 21 CALENDAR DAYS. ALL OTHER AREAS WILL BE STABILIZED WITH 15 WORKING DAYS.
  - ALL SOILS IMPACTED BY SEDIMENTATION AND EROSION CONTROL DURING THE CONSTRUCTION PHASE SHALL BE CLEANED OUT AND CONVERTED TO THEIR APPROVED DESIGN STATE.

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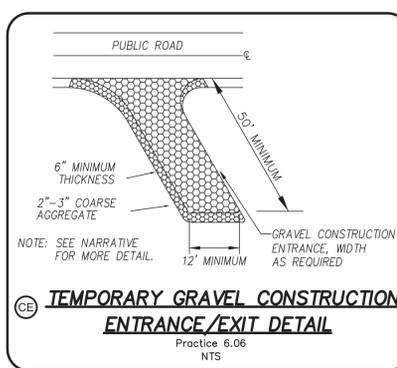
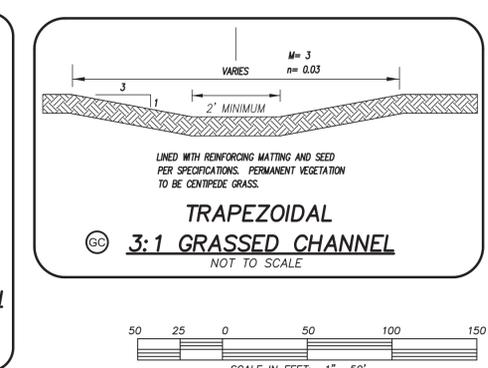
**EROSION CONTROL PLAN**  
for  
**ALL SAINTS CATHOLIC CHURCH**

**EROSION CONTROL PLAN FOR**  
**ALL SAINTS CATHOLIC CHURCH**  
LOCATED IN GRADY TOWNSHIP  
PENDER COUNTY, NORTH CAROLINA  
OWNER: ALL SAINTS CATHOLIC CHURCH  
18237 US HWY 17  
HAMPSHIRE, NC 28443



**RIP RAP DIMENSIONS**

STRUCTURE	L	W	X	D	CLASS	QTY
CULVERT 1	10'	8'	1'		B	2 CY



**NOTES:**

- SOIL STABILIZATION TIMEFRAMES**

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DRESSES/SWALES	7 DAYS	NONE
DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY ZONES (HQW)	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10 FT OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50 FT IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETER AND HQW ZONES

- DEVELOPED AREAS MUST BE STABILIZED WITHIN FIFTEEN (15) WORKING DAYS OF CEASE OF ANY PHASE OF ACTIVITY. ALL SLOPES MUST BE STABILIZED WITHIN TWENTY-ONE (21) CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY. THIS INCLUDES SLOPES, SWALES, CHANNELS AND STOCKPILES.
- THIS PLAN TO BE UTILIZED AND REVIEWED ONLY IN CONJUNCTION WITH THE WRITTEN NARRATIVE, WHICH IS AN INTEGRAL PART OF THIS EROSION AND SEDIMENT CONTROL PLAN.
- ALL SLOPES SHALL BE 3:1 OR FLATTER.
- NO IMPERVIOUS SETBACKS FROM WETLANDS REQUIRED.
- 0.01 ACRES OF WETLANDS ON-SITE.
- BOUNDARY, TOPOGRAPHIC AND AS-BUILT SURVEY PERFORMED BY MICHAEL UNDERWOOD AND ELEVATION DATUM: NAVD 88
- LIMITS OF DISTURBANCE = 4.64 ACRES
- STORM WATER DRAINS TO NIXONS CREEK (SA-HWY 18-87-11) IN THE WHITE OAK RIVER BASIN. SITE IS OUTSIDE OF 0.5 MILE OF SA WATERS.
- NO SURFACE WATERS ARE FOUND ON PROPERTY AND NO SURFACE WATERS SETBACKS ARE ON ADJACENT PROPERTY THAT WOULD AFFECT THIS PROJECT.
- ALL DISTURBED SWALES ARE TO BE LINED WITH EXCELSDOR MATTING AND STABILIZED WITH PERMANENT VEGETATION FOLLOWING RE-GRADING.
- ANY IMPORTED FILL MATERIAL BROUGHT ON-SITE MUST COME FROM A SITE WITH AN APPROVED NCEOE EROSION CONTROL PERMIT.

**LEGEND**

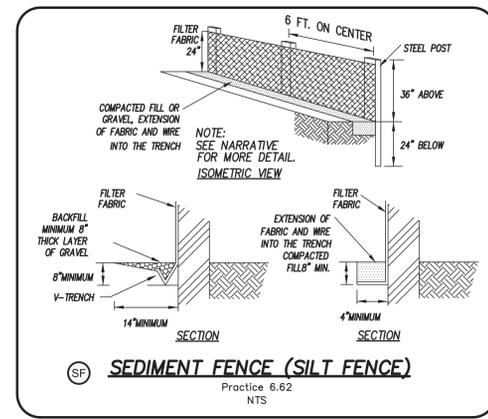
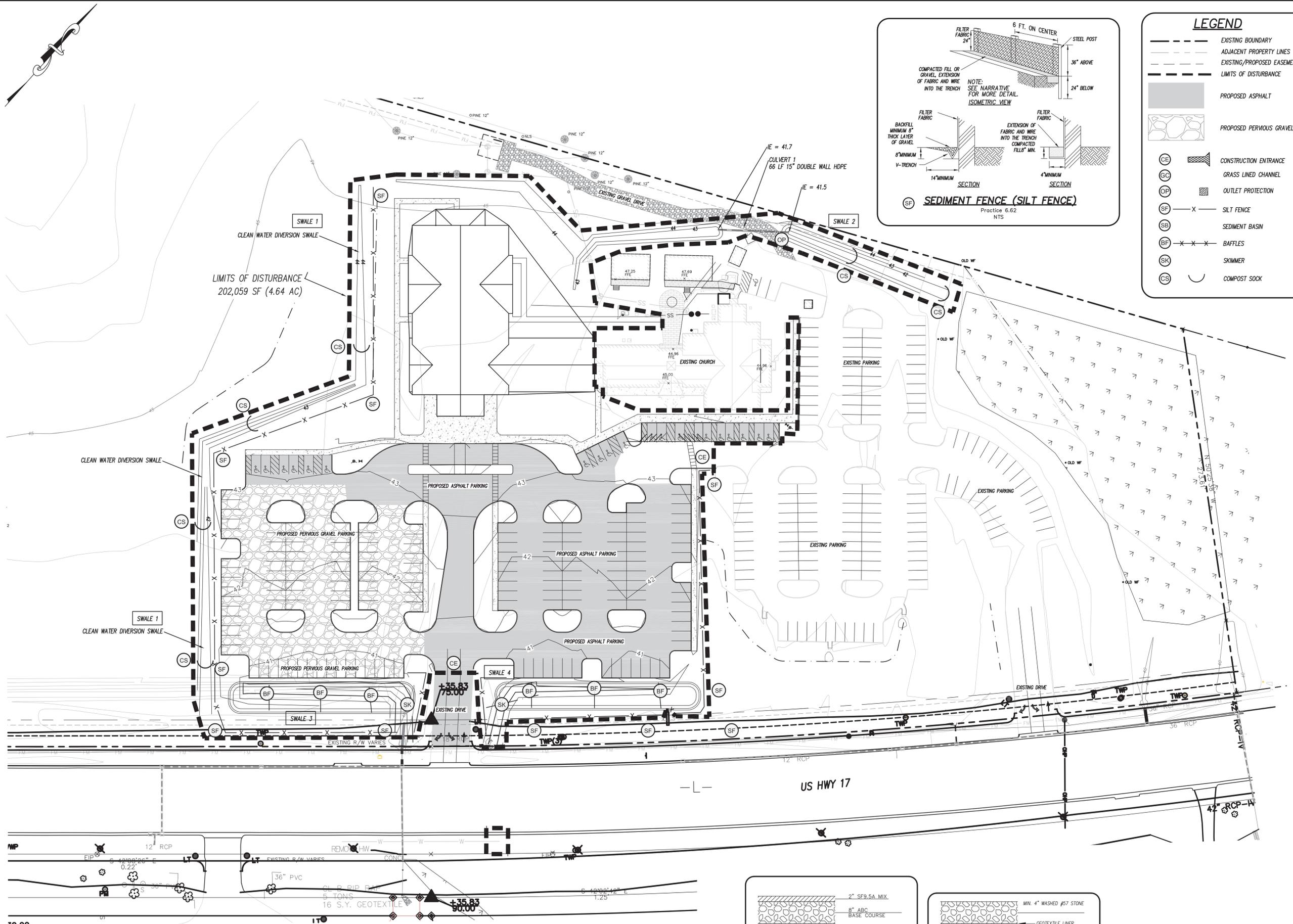
- EXISTING BOUNDARY
- ADJACENT PROPERTY LINES
- - - EXISTING/PROPOSED EASEMENT
- - - LIMITS OF DISTURBANCE
- CE CONSTRUCTION ENTRANCE
- GC GRASS LINED CHANNEL
- OP OUTLET PROTECTION
- SF SILT FENCE
- SB SEDIMENT BASIN
- BF BAFFLES
- SK SKIMMER
- CS COMPOST SOCK

- PLANNED EROSION AND SEDIMENT CONTROL PRACTICES -**
- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE**  
PRACTICE 6.06  
SHALL BE INSTALLED AT THE ENTRANCES TO THE PROJECT FROM AN EXISTING ROADWAY. DRAINAGE SHOULD BE AWAY FROM THE ROAD AND EROSION WILL BE CONTROLLED WITH DOWNSTREAM PRACTICES. DURING WET WEATHER IT MAY BE NECESSARY TO WASH TRUCK TIRES AT THESE LOCATIONS.
  - LAND GRADING**  
PRACTICE 6.02  
GRADING SHOULD BE LIMITED TO AREAS AS SHOWN ON THE PLANS. CUT AND FILL SLOPES SHALL BE 3:1 OR FLATTER EXCEPT WHERE SPECIFICALLY INDICATED. CARE SHALL BE TAKEN DURING LAND GRADING ACTIVITIES NOT TO DAMAGE EXISTING TREES THAT ARE IDENTIFIED AS "TO BE PRESERVED".
  - SEDIMENT FENCE**  
PRACTICE 6.62  
SEDIMENT FENCING SHOULD BE INSTALLED AS SHOWN ON THE PLAN, TO DELINEATE AND PROTECT WETLANDS AND SPECIFIED AREAS, AND AROUND ANY TEMPORARY STOCKPILE AREAS AS NECESSARY TO PREVENT ANY GRADED INTERIOR AREAS FROM ERODING ONTO ADJACENT LANDS OR ROADWAY, OR INTO INLETS, OR AS DIRECTED BY ENGINEER.
  - CONSTRUCTION ROAD STABILIZATION**  
PRACTICE 6.80  
UPON REACHING FINAL GRADE AND AFTER UTILITIES HAVE BEEN INSTALLED, ROADWAY/PARKING AREAS ARE TO BE STABILIZED BY PLACING SUB-BASE AS SHOWN IN THE TYPICAL STREET CROSS-SECTION DETAIL ON THE PLAN, TO REDUCE EROSION AND DUST DURING THE REMAINDER OF BUILDING CONSTRUCTION.
  - SKIMMER**  
PRACTICE 6.64  
A SEDIMENTATION BASIN DEWATERING CONTROL DEVICE THAT WITHDRAWS WATER FROM THE BASIN'S WATER SURFACE, THUS REMOVING THE HIGHEST QUALITY WATER FOR DELIVERY TO THE UNCONTROLLED ENVIRONMENT.
  - GRASS-LINED CHANNELS**  
PRACTICE 6.30  
ALL OVERFLOW SWALES TO BE GRADED TO DESIGN CONFIGURATION LINED WITH CENTIPEDE SOD, TO COLLECT AND CONVEY SITE WATER AS SHOWN ON PLAN. AFTER FINAL PROJECT STABILIZATION, SWALES TO BE RE-GRADED, CLEANED OF SILTATION AND LINED WITH CENTIPEDE SOD TO ESTABLISH ORIGINAL DESIGN CONTOURS FOR STORMWATER CONVEYANCE.
  - OUTLET STABILIZATION**  
PRACTICE 6.41  
RIPRAP APRONS WILL BE LOCATED AT THE DOWNSTREAM END OF ALL DISCHARGE PIPES TO PREVENT SCOUR.
  - COMPOST SOCK**  
PRACTICE 6.66  
THREE DIMENSIONAL TUBULAR SEDIMENT CONTROL RUNOFF DEVICE TYPICALLY USED FOR PERIMETER CONTROL OF SEDIMENT.
  - BAFFLE**  
PRACTICE 6.65  
A POROUS BARRIER INSTALLED INSIDE A TEMPORARY SEDIMENT TRAP, SKIMMER BASIN OR SEDIMENT BASIN TO REDUCE THE VELOCITY AND TURBULENCE OF WATER FLOWING THROUGH THE MEASURE AND TO FACILITATE THE SETTLING OF SEDIMENT FROM WATER BEFORE DISCHARGE.
  - SEDIMENT BASIN**  
PRACTICE 6.61  
THE SEDIMENT BASIN IS TO BE CONSTRUCTED FIRST (SEE CONSTRUCTION SCHEDULE) AND IS THE PRIMARY PRACTICE TO PREVENT SEDIMENT FROM LEAVING THE SITE. DETAILED DESIGN AND SPILLWAY CONFIGURATIONS ARE SPECIFIED IN THE DETAIL SHEET.

**FINAL DESIGN**  
NO PROFESSIONAL SEAL  
NOT RELEASED  
1-4-23  
FOR CONSTRUCTION

REV.	DATE	BY	REMARKS
1	1-4-23	HSR	REVISED PER NCEOE COMMENTS

DATE: 12-9-22  
HORZ. SCALE: 1" = 50'  
VERT. SCALE: N/A  
DRAWN BY: JLR  
CHECKED BY: HSR  
PROJECT NO.: 22-0620  
Sheet No. **C9** of **C12**



**LEGEND**

- EXISTING BOUNDARY
- - - ADJACENT PROPERTY LINES
- - - EXISTING/PROPOSED EASEMENT
- - - LIMITS OF DISTURBANCE
- PROPOSED ASPHALT
- ▨ PROPOSED PERVIOUS GRAVEL
- ⊙ CE CONSTRUCTION ENTRANCE
- ⊙ GC GRASS LINED CHANNEL
- ⊙ OP OUTLET PROTECTION
- ⊙ SF SILT FENCE
- ⊙ SB SEDIMENT BASIN
- ⊙ BF BAFFLES
- ⊙ SK SKIMMER
- ⊙ CS COMPOST SOCK

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EROSION CONTROL PLAN  
 for  
**ALL SAINTS CATHOLIC CHURCH**

EROSION CONTROL PLAN FOR  
**ALL SAINTS CATHOLIC CHURCH**  
 LOCATED IN GRADY TOWNSHIP  
 PENDER COUNTY, NORTH CAROLINA  
 OWNER: ALL SAINTS CATHOLIC CHURCH  
 18237 US HWY 17  
 HAMPSHIRE, NC 28443

PROFESSIONAL DESIGN  
 SEAL  
 NOT RELEASED  
 1-4-23  
 FOR CONSTRUCTION

REV. NO.	REMARKS	BY	DATE
2	REVISED PER DEQ COMMENTS	REW	1-4-23
1	REVISED PER DEQ SUBMITTAL MEETING COMMENTS	REW	12-14-22

DATE: 12-9-22  
 HORIZ. SCALE: 1" = 40'  
 VERT. SCALE: N/A  
 DRAWN BY: JLH  
 CHECKED BY: HSR  
 PROJECT NO.: 22-0620

Sheet No. **C10** of **C12**

SK

Skimmer Sediment Basin  
Specification 6.64 - Construction Specifications

- 1. Clear, grub, and strip the area under the embankment of all vegetation and topsoil...
2. Ensure that fill material for the embankment is free of roots, woody material, organic matter, and other objectionable materials...
3. Shape the basin to the specified dimensions. Prevent the skimming device from getting into the mud by providing a slope of 2:1...
4. Place the barrel (typically 4-inch Schedule 40 PVC pipe) on a firm, smooth foundation...
5. Assemble the skimmer following the manufacturer's instructions...
6. Lay the assembled skimmer on the bottom of the basin with the flexible joint at the inlet of the barrel pipe...
7. Earthen spillway - install the spillway in undisturbed soil to the greatest extent possible...
8. Inlets - Discharge water into the basin in a manner to prevent erosion...
9. Erosion control - Construct the structure so that the disturbed area is minimized...
10. After all the sediment-producing areas have been permanently stabilized, remove the structure and all the unstable sediment...

Inspect skimmer sediment basins at least weekly and after each significant (one-half inch or greater) rainfall event and repair immediately...
If the skimmer is clogged with trash and there is water in the basin, usually jacking up the rope will make the skimmer pop up and down and dislodge the debris...

GC

Grass-Lined Channels  
Specification # 6.30 - Construction Specifications

- 1. Remove all trees, brush, stumps, and other objectionable material from the foundation area and dispose of properly...
2. Excavate the channel and shape it to neat lines and dimensions shown on the plans plus a 0.2 ft overcut around the channel perimeter...
3. Remove and properly dispose of all excess soil so that surface water may enter the channel freely...
4. The procedure used to establish grass in the channel will depend upon the severity of the conditions and selection of species...

OP

Outlet Stabilization Structure  
Specification # 6.41 - Construction Specifications

- 1. Ensure that the subgrade for the filter and riprap follows the required lines and grades shown in the plan. Compact any fill required in the subgrade to the density of the surrounding undisturbed material...
2. The riprap and gravel filter must conform to the specified grading limits shown on the plans...
3. Filter cloth, when used, must meet design requirements and be properly protected from punching or tearing during installation...
4. Riprap may be placed by equipment, but take care to avoid damaging the filter...
5. The minimum thickness of the riprap should be 1.5 times the maximum stone diameter...
6. Riprap may be field stone or rough quarry stone. It should be hard, angular, highly weather-resistant and well graded...
7. Construct the apron on zero grade with no overfall at the end...
8. Ensure that the apron is properly aligned with the receiving stream and preferably straight throughout its length...
9. Immediately after construction, stabilize all disturbed areas with vegetation...

Permanent Seeding  
Specifications # 6.11 - Specifications

Seeded Requirements
Establishment of vegetation should not be attempted on sites that are unsuitable due to inappropriate soil texture...
Enough fine-grained (silt and clay) material to maintain adequate moisture and nutrient supply...
Sufficient pore space to permit root penetration...
Sufficient depth of soil to provide an adequate root zone...
Freedom from large roots, branches, stones, large clods of earth, or trash of any kind...
If any of the above criteria are not met - i.e., if the existing soil is too coarse, dense, shallow or acidic to foster vegetation - special amendments are required...

Species Selection
Use the key to Permanent Seeding Mixtures (Table 6.11b) to select the most appropriate seeding mixture based on the general site and maintenance factors...
Seeded Preparation
Install necessary mechanical erosion and sedimentation control practices before seeding, and complete grading according to the approved plan...

When soil test are not available, follow rates suggested on the individual specification sheet for the seeding mix chosen...
Apply lime and fertilizer evenly and incorporate into the top 4-6 inches of soil by using a hydroseeder, apply lime and fertilizer to a rough, loose surface.

Temporary Seeding  
Specification # 6.10 - Specifications

Complete grading before preparing seedbeds and install all necessary erosion control practices, such as dikes, waterways and basins...
Seeded Preparation
Good seeded preparation is essential to successful plant establishment...
Lime - Apply lime according to soil test recommendations...
Fertilizer - Base application rates on soil tests...
Plant Selection
Select an appropriate species or species mixture from Table 6.10a, for seeding in late winter and early spring...

Seeding
Evenly apply seed using a cyclone seeder (broadcast), drill, cultipacker seeder, or hydroseeder...
Mulching
The use of appropriate mulch will help ensure establishment under normal conditions and is essential to seeding success under harsh site condition...

Table 6.10a - Temporary Seeding Recommendation for Late Winter and Early Spring Seeding Mixture
Species - Ryegrass, Annual Lespedeza
Rate (lb/acre) - 120
Omit annual lespedeza when duration of temporary cover is not to extend beyond June...

Table 6.10b - Temporary Seeding Recommendations for Summer Seeding Mixture
Species - German millet
Rate (lb/acre) - 40
Seeding dates - Coastal Plain - Apr. 15-Aug. 15
Soil amendments - Follow recommendations of soil tests...

Table 6.10c - Temporary Seeding Recommendation for Fall Seeding Mixture
Species - Ryegrass
Rate (lb/acre) - 120
Seeding dates - Coastal Plain and Piedmont - Aug 15 - Dec. 30
Soil amendments - Follow recommendations of soil tests...

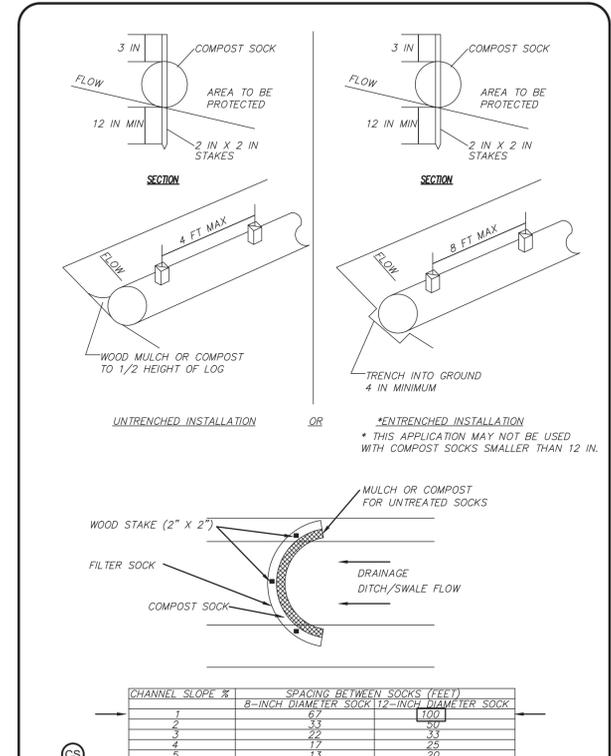


Table with 2 columns: CHANNEL SLOPE % and SPACING BETWEEN SOCKS (FEET). Rows show spacing for slopes of 1, 2, 3, 4, and 5.

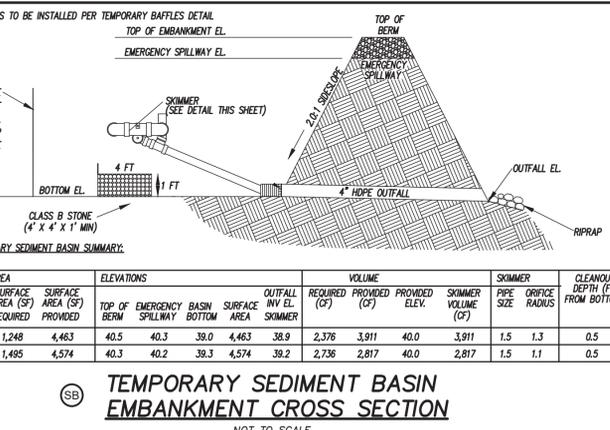


Table with 4 columns: SEDIMENT BASIN #, SURFACE AREA (SF) REQUIRED, SURFACE AREA (SF) PROVIDED, and ELEVATIONS. Rows 1 and 2 show basin details.

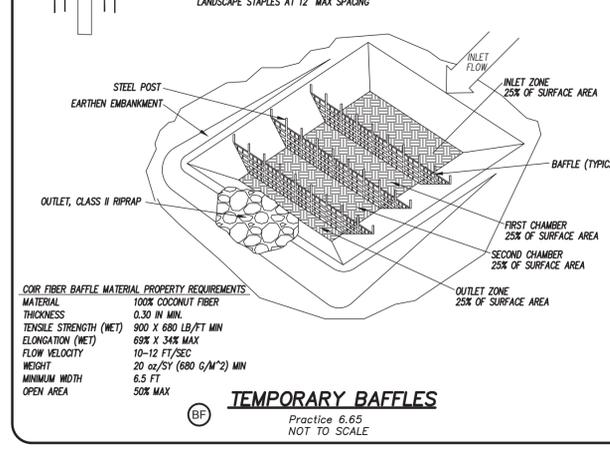


Table with 2 columns: COR FIBER BAFFLE MATERIAL PROPERTY REQUIREMENTS and values. Rows include material, thickness, tensile strength, elongation, flow velocity, weight, minimum width, and open area.

Land Grading  
Specification # 6.02 - Construction Specifications

- 1. Construct and maintain all erosion and sedimentation control practices and measures in accordance with the approved sedimentation control plan and construction schedule...
2. Remove good topsoil from areas to be graded and filled, and preserve it for use in finishing the grading of all critical areas...
3. Scarify areas to be topsoiled to a minimum depth of 2 inches before placing topsoil...
4. Clear and grub areas to be filled to remove trees, vegetation, roots, or other objectionable material...
5. Ensure that fill material is free of brush, rubbish, rocks, logs, stumps, building debris, and other materials...
6. Place all fill in layers not to exceed 9 inches in thickness...
7. Do not incorporate frozen material or soft, mucky, or highly compressible materials into fill slopes...
8. Do not place fill on a frozen foundation...
9. Keep diversions and other water conveyance measures free of sediment during all phases of development...
10. Handle pipes or springs encountered during construction in accordance with approved methods...
11. Permanently stabilize all graded areas immediately after final grading is completed...
12. Ensure that topsoil stockpiles, borrow areas, and spoil areas are adequately protected from erosion with temporary and final stabilization measures...

Temporary Gravel Construction Entrance/Exit  
Specification # 6.06 - Construction Specifications

- 1. Clear the entrance and exit area of all vegetation, roots and other objectionable material and properly grade it...
2. Place the gravel to the specific grade and dimensions shown on the plans and smooth it...
3. Provide drainage to carry water to a sediment trap or other suitable outlet...
4. Use geotextile fabrics because they improve stability of the foundation in locations subject to seepage or high water table...
Maintenance
Maintain the gravel pad in a condition to prevent mud or sediment from leaving the construction site...

CSD ENGINEERING logo and contact information: LICENSE # C-2710, P.O. BOX 4041, WILMINGTON, NC 28406, (910) 791-4441.

EROSION CONTROL PLAN FOR ALL SAINTS CATHOLIC CHURCH. Includes owner information: ALL SAINTS CATHOLIC CHURCH, 18737 US HWY 17, HAMPSHIRE, NC 28443.

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Seal: CAROLINA SEAL OF APPROVAL, NOT RELEASED 12-9-2022, FOR CONSTRUCTION.

Table with columns: DATE, HORIZ. SCALE, DRAWN BY, CHECKED BY, PROJECT NO., SHEET NO., and REV. NO. Values include: DATE: 12-9-22, HORIZ. SCALE: N/A, DRAWN BY: MRB, CHECKED BY: HSR, PROJECT NO.: 22-0620, SHEET NO.: C11 of C12.

