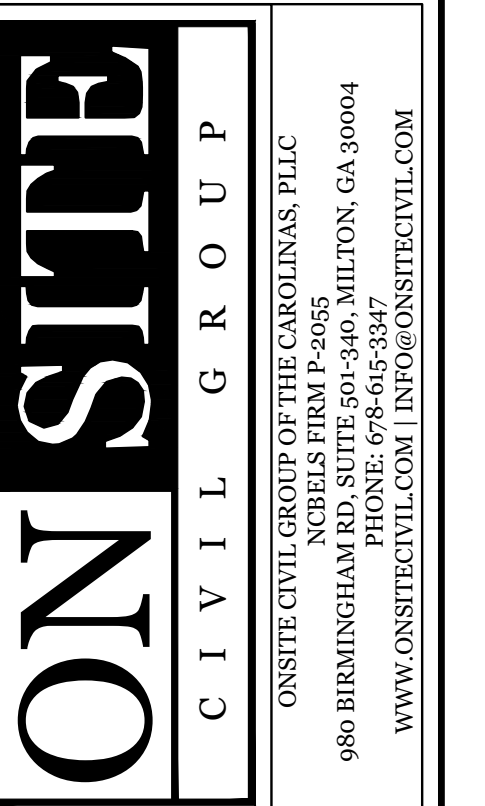
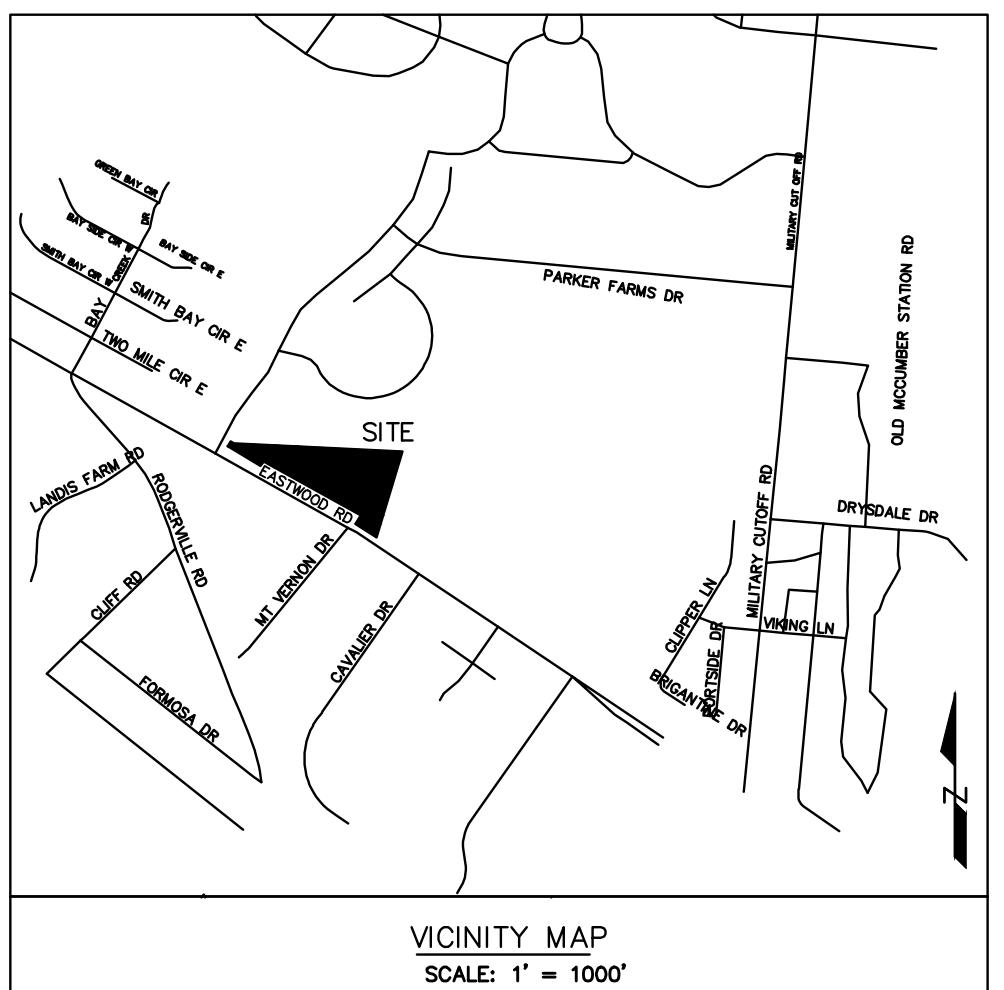


# CIVIL CONSTRUCTION PLANS FOR: SPLASH N DASH MAYFAIRE 1445 EASTWOOD RD PIN # 3157-05-17-6742, DB 5963 PG 212 CITY OF WILMINGTON NEW HANOVER COUNTY, NC



THESE DRAWINGS ARE THE PROPERTY OF ONSITE CIVIL GROUP, LLC AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF ONSITE CIVIL GROUP, LLC.

SEAL REDAC



PROJECT INFORMATION	
ZONING	CB (CD)
SETBACKS	FRONT 100', REAR 25', SIDE 25'
OVERALL SITE AREA	3.55 ACRES
TOTAL DISTURBED AREA	1.65 ACRES
EXISTING IMPERVIOUS AREA	0.0 ACRES
PROPOSED NEWLY FORMED IMPERVIOUS AREA	0.85 (36,993 SF) ACRES
NEW NET IMPERVIOUS AREA	0.85 (36,993 SF) ACRES
PARKING REQUIRED/ PROVIDED	1/600 REQ'D: 4,176/600=7. MAX IS 20 PER 18-528(d). PROPOSED: 11 + 21 SERVICE SPACES. ADA: 1/25 REQ'D=2; 2 ADA PROVIDED

SHEET INDEX	
C101	COVER SHEET
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C401-401.1	SITE PLAN
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C704-706	EROSION CONTROL NOTES
C801-806	CONSTRUCTION DETAILS
C807-813	CFPUA STANDARD DETAILS
L1.0-1.1	TREE REPLACEMENT PLANS

PROJECT CONTACTS	
DEVELOPER:	SND MAYFAIRE, LLC
	943 BALDWIN PARK DR, WILMINGTON, NC 28411
	STEPHEN UMSTEAD
	910-262-2831 STEPHEN@SPLASHNDASHONLINE.COM
OWNER:	ARENDELLE HOLDINGS, LLC
	1131-B MILITARY CUTOFF RD WILMINGTON, NC 28405
	CONTACT: JASON SWAIN
	910-256-2211 JASON@SWAINASSOCIATES.COM
CIVIL ENGINEER:	ONSITE CIVIL GROUP, LLC (JARRETT SENKBEIL)
	980 BIRMINGHAM RD, SUITE 501-340 MILTON, GA 30004
	404-822-9147 JARRETT@ONSITECIVIL.COM
LANDSCAPE ARCHITECT	PARAMOUNTE ENGINEERING, INC.
	122 CINEMA DRIVE WILMINGTON, NC 28403
	CONTACT: JIM CIRELLO, RLA
	910-791-6707

REVISIONS		
No.	DATE	DESCRIPTION

CLIENT:  
SND MAYFAIRE, LLC  
943 BALDWIN PARK DR  
WILMINGTON, NC 28411  
CONTACT: STEPHEN UMSTEAD  
910-262-2831  
STEPHEN@SPLASHNDASHONLINE.COM

SPLASH N DASH MAYFAIRE  
1445 EASTWOOD RD  
CITY OF WILMINGTON,  
NEW HANOVER COUNTY  
NORTH CAROLINA

APPROVED CONSTRUCTION PLAN  
DATED APRIL 14, 2021  
PROJECT # 2020051  
STORMWATER PERMIT # 2021004

ISSUE DATES		
NUMBER	DATE	DESCRIPTION
1	11/23/20	INITIAL SUBMITTAL
2	1/25/21	TRC RESUBMITTAL
3	2/18/21	NHC EROSION CONTROL SUBMITTAL
4	3/24/21	NHC EROSION CONTROL RESUBMITTAL
5		



**CAUTION!!!**  
The locations and elevations of existing underground utilities as shown on this drawing are only APPROXIMATE. No guarantee is either expressed or implied as to the completeness of accuracy thereof. The contractor shall be exclusively responsible for determining the exact utility locations and elevations prior to the start of construction.

**24 HOUR CONTACT:**  
**ED UMSTEAD**  
**706-840-4988**

COVER SHEET

DATE: MARCH 24, 2021  
PROJECT: 19-050  
SHEET: **C 101**

**CITY OF WILMINGTON GENERAL NOTES:**

- PRIOR TO ANY CLEARING, GRADING OR ANY CONSTRUCTION ACTIVITY, TREE PROTECTION FENCE WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCE.
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING TO REQUEST INSTALLATION OF STREET NAME SIGNS.
- TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
- CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN. ADD A NOTE TO CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
- ANY MISSING OR BROKEN SIDEWALK PANELS, DRIVEWAY PANELS, OR CURB PANELS WILL BE REPLACED.
- CONTACT KAREN DIXON AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- PROJECT WILL COMPLY WITH CITY OF WILMINGTON CROSS CONNECTION CONTROL REQUIREMENTS.
- IF THE CONTRACTOR DESIRES CITY WATER FOR CONSTRUCTION HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
- ANY IRRIGATION SYSTEM SUPPLIED BY CITY WATER SHALL COMPLY WITH THE CITY'S CROSS CONNECTION CONTROL REGULATIONS. CALL 343-3910 FOR INFORMATION.
- ANY BACKFLOW DEVICES REQUIRED BY THE CITY WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCFCOHR OR ASSE.

**EROSION CONTROL NOTES:**

- ALL "STD" NUMBERS REFER TO THE WILMINGTON LAND DEVELOPMENT STANDARDS MANUAL.
- ON-SITE BURIAL PITS REQUIRE AN ON-SITE DEMOLITION LANDFILL PERMIT FROM THE ZONING ADMINISTRATOR.
- ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
- GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
- ALL SLOPES AND PERIMETER AREAS MUST BE SEEDED OR MULCHED WITHIN 7 CALENDAR DAYS, 14 DAYS FOR ALL OTHER AREAS. REFER TO EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS.
- ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE COUNTY ENGINEERING DEPT.
- SLOPES SHALL BE GRADED NO STEEPER THAN 2:1.
- A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
- DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES IN NCDOT RIGHT OF WAY MUST BE PRESENTED AT PRE CONSTRUCTION MEETING.
- SELF INSPECTION AND DOCUMENTATION OF EROSION AND SEDIMENT CONTROL MEASURES IS REQUIRED ONCE PER WEEK AND AFTER EVERY 1/2" RAINFALL EVENT AS MEASURED BY AN ON-SITE RAIN GAUGE.

**BMP MAINTENANCE PLAN:**

- ALL EROSION AND SEDIMENT FOLLOWING 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 HALF INCH RAINFALL.
- ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN 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 ENTRANCES OR ROADWAYS.
- SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION, BLOCK AND GRAVEL INLET PROTECTION, ROCK DOUGHNUT INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNATED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND BEAVER DAMS, DANDY SACKS, AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.
- DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION RIDGES WILL ALSO BE REPAIRED. SWALES MUST BE TEMPORARILY STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE.
- 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 FIXED 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 WHEN IT BECOMES HALF FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED, OR IS DAMAGED.
- SEDIMENT WILL BE REMOVED FROM SEDIMENT TRAPS WHEN THE DESIGNATED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. THE ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR WHEN 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 WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE.
- ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY AND MULCHED ACCORDING TO 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 WITHIN 15 WORKING DAYS.
- FLOCCULANTS WILL BE USED TO ADDRESS TURBIDITY ISSUES. THE PUMPS, TANKS, HOSES, AND INJECTION SYSTEMS WILL BE CHECKED FOR PROBLEMS OR TURBID DISCHARGES DAILY.

**GENERAL NOTES:**

- ALL CONSTRUCTION WORK AND MATERIALS SHALL CONFORM TO NCDOT STANDARD SPECIFICATIONS AND DETAILS ASSOCIATED WITH THESE PLANS. IF THERE IS A CONFLICT THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN HAND PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- PRIOR TO INSTALLATION OF ANY UTILITY LINES, THE CONTRACTOR SHALL GIVE THE UTILITY COMPANIES THREE (3) WORKING DAYS NOTICE TO ALLOW TIME FOR EXISTING UTILITIES TO BE STAKED. BEFORE CALLING (1-800-632-4949) THE CONTRACTOR SHALL HAVE THE FOLLOWING INFORMATION READY: COUNTY, TOWN, LOCATION, NEAREST STREET INTERSECTIONS, TYPE OF WORK (SEWER, WATER PAVING, ETC.) YOUR COMPANY NAME, TELEPHONE NUMBER, OWNER'S NAME, DATE AND TIME YOU EXPECT TO COMMENCE CONSTRUCTION, AND WHERE AND HOW YOU CAN BE REACHED AND THE BEST TIME TO CONTACT YOU. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLAN OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES, AND THE CONTRACTOR SHALL COOPERATE WITH THEM DURING RELOCATION OPERATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY VARIANCES PRIOR TO COMMENCEMENT OF WORK OR PURCHASING ANY MATERIALS.
- ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON THE PLANS AND ARE NOT NECESSARILY ACCURATE AS TO PLAN OR ELEVATION. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UTILITY FACILITIES OTHER THAN SERVICE LINES FROM STREET MAINS TO ABUTTING PROPERTY WHEN SUCH FACILITIES ARE NOT SHOWN ON THE PLANS AND THEIR EXISTENCE IS UNKNOWN TO THE CONTRACTOR PRIOR TO THE DAMAGES OCCURRING PROVIDING THE ENGINEER DETERMINES THE CONTRACTOR HAS OTHERWISE FULLY COMPLIED WITH THE SPECIFICATIONS.
- IT IS THE OBLIGATION OF THE CONTRACTOR TO MAKE HIS OWN INTERPRETATION OF ALL SURFACE AND SUBSURFACE DATA THAT IS AVAILABLE AS TO THE NATURE AND EXTENT OF THE MATERIALS TO BE EXCAVATED AND WASTED, AND/OR GRADED AND COMPACTED. THE INFORMATION SHOWN ON THESE PLANS AND SPECIFICATIONS DOES NOT IN ANY WAY GUARANTEE THE AMOUNT OR NATURE OF THE MATERIAL WHICH MAY BE ENCOUNTERED.
- ALL STORM DRAIN PIPES SHALL BE WATER TIGHT HDPE UNLESS OTHERWISE SHOWN ON PLANS. ALL PIPE WITHIN CDOT SHALL BE RCP.
- FILL MATERIAL SHALL BE CLEAN AND FREE OF ALL DEBRIS AND ORGANIC MATERIAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND FURNISHING THE BORROW MATERIAL NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT.
- ALL EXCESS MATERIALS, IF ANY, SHALL BE HAULED OFF-SITE AND DISPOSED OF BY THE CONTRACTOR. THE OWNER SHALL HAVE THE RIGHT TO KEEP AND STOCKPILE THE MATERIAL AT A LOCATION DETERMINED BY THE OWNER IF DESIRED.
- ALL DISTURBED EARTH AREAS, NOT DESIGNATED TO BE PAVED, SHALL BE GRASSED WITH TEMPORARY SEEDING OR PLANTED WITH PERMANENT VEGETATION.
- ALL SANITARY SEWER PIPE SHALL MEET THE REQUIREMENTS OF ASTM D-3034, SDR 35 AND HAVE A MINIMUM COVER OF 48" FROM FINISHED GRADE.
- PRIOR TO CONNECTING TO ANY EXISTING CITY OF WILMINGTON/CAPE FEAR PUBLIC UTILITY AUTHORITY UTILITIES AND PRIOR TO DIGGING FOR ANY PROPOSED CONSTRUCTION OF CITY OF WILMINGTON/CAPE FEAR PUBLIC UTILITY AUTHORITY'S WATER MAINS, SANITARY SEWER LINES, OR STORM SEWER SYSTEMS, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE DEPARTMENT HEADS A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO DIGGING.
- ALL PERMANENT VEGETATION SHALL BE PLANTED AS SHOWN ON THE LANDSCAPE PLAN.
- ALL PROPOSED PAVEMENT ELEVATIONS SHOWN +99.43' ARE PROPOSED GROUND OR CONCRETE SIDEWALK SPOT ELEVATIONS AND NOT TOP OF CURB ELEVATIONS UNLESS NOTED.

**CONSTRUCTION SEQUENCE NOTES:**

- OBTAIN GRADING/EROSION CONTROL PLAN APPROVAL FROM THE CITY OF WILMINGTON ENGINEERING DEPARTMENT. OBTAIN STORMWATER AND OTHER PLAN APPROVALS FROM CITY OF WILMINGTON.
- SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH EROSION CONTROL INSPECTOR OF THE CITY ENGINEERING DEPARTMENT TO DISCUSS EROSION CONTROL MEASURES. ALSO SCHEDULE A PRECON WITH THE CITY ENGINEERING DEPARTMENT. FAILURE TO SCHEDULE SUCH CONFERENCE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS A VIOLATION OF THE CITY CODE AND IS SUBJECT TO FINE.
- INSTALL SILT FENCE, INLET PROTECTION, SEDIMENT TRAPS, DIVERSION DITCHES, TREE PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
- CALL FOR ON-SITE INSPECTION BY INSPECTOR. WHEN APPROVED, INSPECTOR ISSUES GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
- FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL INSPECTOR PRIOR TO COMMENCING WITH EACH PHASE OF EROSION CONTROL MEASURES.
- STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE.
- COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURE.
- DETENTION WILL BE CLEANED OUT WHEN SITE WORK AND PAVING ARE COMPLETED AND A FINAL PERMANENT GROUND COVER IS ESTABLISHED.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, US DEPT OF AGRICULTURE, CITY OF WILMINGTON EROSION CONTROL ORDINANCE, AND THE WILMINGTON LAND DEVELOPMENT STANDARDS MANUAL.

**SURVEY NOTES:**

EXISTING CONDITIONS BASED ON A GROUND RUN TOPOGRAPHIC SURVEY PREPARED BY PARAMOUNT ENGINEERING, INC., DATED 4-13-20. THE BASIS OF BEARING FOR THIS SURVEY IS NAD83. THE VERTICAL DATUM IS NAVD88. ONSITE CIVIL GROUP LLC TAKES NO LIABILITY FOR THE ACCURACY OF THIS SURVEY. CONTRACTORS AND SUB-CONTRACTORS A RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.

\*\*\*CHECK INDIVIDUAL PLAN SHEETS FOR ADDITIONAL NOTES AS REQUIRED BY CITY OF WILMINGTON\*\*\*

**STORM DRAINAGE NOTES:**

- ENGINEER: ONSITE CIVIL GROUP, LLC  
980 BIRMINGHAM ROAD SUITE 201-340  
MILTON, GA 30004  
PHONE: (404) 822-9147  
CONTACT: JARRETT SENKBEIL, P.E., LEED AP
- TOTAL SITE AREA: 3.55 ACRES  
DISTURBED AREA: 1.65  
PRE-DEVELOPMENT IMPERVIOUS SITE AREA: 0.0 ACRES  
PRE-DEVELOPED IMPERVIOUS AREA TO BE REMOVED: 0.0 ACRES  
PROPOSED IMPERVIOUS AREA: 0.85 (36,993 SF) ACRES  
TOTAL POST-DEVELOPMENT IMPERVIOUS SITE AREA: 0.85 (36,993 SF) ACRES
- ALL STORMWATER INFRASTRUCTURES ON THIS SITE ARE PRIVATELY OWNED, AND ANY MAINTENANCE OR REPLACEMENT IS THE OWNER'S RESPONSIBILITY.
- ACCORDING TO FEMA FLOOD INSURANCE RATE MAP COMMUNITY NO. 3720315700K DATED 8-28-18 THIS PROPERTY IS LOCATED WITHIN ZONE X (NOT A SPECIAL FLOOD HAZARD AREA).

**SURVEY NOTES:**

PROPERTY OWNER(S): AREDELLE HOLDINGS, LLC  
ZONING: CB (CD)  
SETBACKS REQUIRED PER CODE  
FRONT: 100'  
SIDE: 25'  
REAR: 25'  
CANOPY SETBACK: 10' ALONG RW; 15' AT RESIDENTIAL

- ALL DISTANCES ARE SURFACE HORIZONTAL DISTANCES.
- AREA CALCULATED BY COORDINATE METHOD.
- THIS AREA DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FEMA MAP 3720315700K DATED 8-28-18

**UTILITY NOTES:**

- CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES AND THEIR ELEVATIONS PRIOR TO STARTING CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT PUBLIC UTILITIES INSPECTIONS AT LEAST 24 HOURS IN ADVANCE PRIOR TO ANY ACTIVITY.
- CONTRACTOR TO COORDINATE TYPE AND INSTALLATION OF DOMESTIC AND IRRIGATION WATER METERS, BACKFLOW PREVENTORS, AND DETECTOR CHECK VALVES WITH UTILITY COMPANY.
- ONSITE CIVIL GROUP WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, OR PROCEDURES UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR CONTRACTOR'S EMPLOYEES OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH LOCAL GOVERNING CODES.
- A MINIMUM OF 10' HORIZONTAL SEPARATION AND 1.5' VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN SEWER LINES AND WATER LINES AT ALL TIMES. SEE SPECIFICATIONS FOR MORE DETAIL.

**ABBREVIATIONS**

AC	ACRES	IN	INCHES
AGGR	AGGREGATE	IPF	IRON PIN FOUND
ASPH	ASPHALT	IPS	IRON PIN SET
CB	CATCH BASIN	JB	JUNCTION BOX
CL	CENTERLINE	LF	LINEAR FEET
CF	CUBIC FEET	LP	LIGHT POLE
CO	CLEAN OUT	MIN	MINIMUM
CONC	CONCRETE	MH	MANHOLE
CMP	CORRUGATED METAL PIPE	N/A	NOT APPLICABLE
DBH	DIAMETER AT BREST HEIGHT	N/F	NOW OR FORMERLY
DE	DRAINAGE EASEMENT	NTS	NOT TO SCALE
DIA	DIAMETER	OD	OUTSIDE DIAMETER
DI	DROP INLET	OHPL	OVERHEAD POWER LINE
DIP	DUCTILE IRON PIPE	PIV	POST INDICATOR VALVE
DWCB	DOUBLE WING CATCH BASIN	PVC	POLY VINYL CHLORIDE
E	ELECTRICAL	R	RADIUS
ELEV	ELEVATION	RCP	REINFORCED CONCRETE PIPE
EXIST	EXISTING	R/W	RIGHT OF WAY
FES	FLARED END SECTION	REQ'D	REQUIRED
FFE	FINISHED FLOOR ELEVATION	SSE	SANITARY SEWER EASEMENT
FH	FIRE HYDRANT	SSMH	SANITARY SEWER MANHOLE
G	NATURAL GAS	S/W	SIDEWALK
GI	GRATE INLET	SWCB	PROPOSED
GV	GAS VALVE	T	TELEPHONE
GM	GAS METER	TW	TOP OF WALL ELEVATION
HW	HEADWALL	TYP	TYPICAL
ID	INSIDE DIAMETER	UGPL	UNDERGROUND POWER LINE
IE	INVERT ELEVATION	W	DOMESTIC WATER

APPROVED CONSTRUCTION PLAN  
DATED APRIL 14, 2021  
PROJECT # 2020051  
STORMWATER PERMIT # 2021004

**LEGEND**

	EXISTING	PROPOSED
BENCHMARK	TBM	N/A
BUILDING	[Symbol]	[Symbol]
CENTERLINE	[Symbol]	[Symbol]
CONCRETE	[Symbol]	[Symbol]
CONTOUR (MAJOR)	980	980
CONTOUR (MINOR)	972	972
DEMOLITION AREA	N/A	[Symbol]
ELECTRIC TRANSFORMER	TRANS. PAD	6x6 TRANS. PAD
FENCE	X X	[Symbol]
FDC	FDC	FDC
FIRE HYDRANT	FH	FH
GAS LINE	G	N/A
GAS METER	GV	N/A
GRAVEL AREA	[Symbol]	[Symbol]
GUARDRAIL	[Symbol]	[Symbol]
GUY WIRE	[Symbol]	N/A
IRON PIN FOUND	IPF	N/A
IRON PIN SET	IPS	N/A
LIGHT POLE	[Symbol]	N/A
LIMITS OF DISTURBANCE	N/A	[Symbol]
OVERHEAD POWER	OU	N/A
POST INDICATOR VALVE	PIV	PIV
POWER POLE	[Symbol] OR [Symbol] OR [Symbol]	N/A
PROPERTY LINE	[Symbol]	[Symbol]
RETAINING WALL	[Symbol]	[Symbol]
SANITARY SEWER	SS	SS
SANITARY MANHOLE	SMH EX. SSMH	SSMH X-2
SEWER CLEANOUT	CO	CO
SILT FENCE	N/A	X X
SPOT ELEVATION	x 971.85	+971.85
STORM GRATE INLET	EX. GI	SD-1
STORM JUNCTION BOX	EX. JB	SD-2
STORM PIPE	[Symbol]	[Symbol]
TREE	[Symbol]	N/A
TREE PROTECTION	N/A	[Symbol]
VALVE	[Symbol]	[Symbol]
WATER LINE	W	W
WATER METER	WM	WM
WATER VALVE	[Symbol]	[Symbol]



**CAUTION!!!**

The locations and elevations of existing underground utilities as shown on this drawing are only APPROXIMATE. No guarantee is either expressed or implied as to the completeness of accuracy thereof. The contractor shall be exclusively responsible for determining the exact utility locations and elevations prior to the start of construction.

**24 HOUR CONTACT:**  
**ED UMSTEAD**  
**706-840-4988**

**ON SITE**  
CIVIL GROUP  
ONSITE CIVIL GROUP OF THE CAROLINAS, PLLC  
NCBELS FIRM P-2605  
980 BIRMINGHAM RD, SUITE 201-340, MILTON, GA 30004  
PHONE: (404) 822-9147  
WWW.ONSITECIVIL.COM INFO@ONSITECIVIL.COM

THESE DRAWINGS ARE THE PROPERTY OF ONSITE CIVIL GROUP, LLC AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF ONSITE CIVIL GROUP, LLC.

SEAL REDAC

**REVISIONS**

No.	DATE	DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

CLIENT:  
**SND MAYFAIRE, LLC**  
943 BALDWIN PARK DR  
WILMINGTON, NC 28411  
CONTACT: **STEPHEN UMSTEAD**  
910-262-2831  
STEPHEN@SLASHNDASHONLINE.COM

**SPLASH N DASH MAYFAIRE**  
1445 EASTWOOD RD  
CITY OF WILMINGTON,  
NEW HANOVER COUNTY  
NORTH CAROLINA

**GENERAL NOTES & LEGEND**

DATE: MARCH 24, 2021  
PROJECT: 19-050

SHEET: **C 201**

**Ordinance**



City Council  
City of Wilmington  
North Carolina

Introduced By: Sterling B. Cheatham, City Manager

Date: 6/16/2020

**Ordinance Amending the Official Zoning Map of the City to Rezone Property Containing 3.53 Acres of Land Located at 1445 Eastwood Road, From CB (CD), Community Business (Conditional District) to CB(CD), Community Business (Conditional District) for 4,375 Square Feet of Automotive Service (Carwash) (CD-16-520)**

**LEGISLATIVE INTENT/PURPOSE:**

WHEREAS, NCGS Section 160A-385 authorizes local governments to change or modify zoning boundaries within their jurisdiction; and

WHEREAS, the amendment set out below is made in accordance with NCGS Section 160A-364 and Article 3, Section 18-117 of the Land Development Code.

**THEREFORE, BE IT ORDAINED:**

**SECTION 1:** The Official Zoning Maps of the City of Wilmington are hereby amended by removing the hereinafter described tract of land from the present CB(CD), Community Business (Conditional District) and putting it in the CB(CD), Community Business (Conditional District) classification, said tract being more particularly described as follows:

Being part of that parcel or tract of land conveyed to Arendelle Holdings LLC in Deed Book 5963 at Page 212 and as lot 2 on Map Book 61 at Page 224, located to the northwest of the intersection of Eastwood Road and Cavalier Drive in the City of Wilmington, New Hanover County, North Carolina; said parcel being more particularly described as follows:

Beginning at an iron rod found on the northerly right-of-way of Eastwood Road (variable width public right-of-way) being the southwestern corner of Lot 1 as shown on Map Book 62 at Page 224;

Thence with said right-of-way North 59 degrees 24 minutes 44 seconds West a distance of 347.69 feet from an existing iron rebar with North Carolina State Grid (NAD 82(2011)) coordinates N: 177,621.89, E: 2,351,470.54;

Thence continuing with said right of way the following two (2) courses and distance:

PH1-2

CERTIFIED TO BE A TRUE COPY  
Penelope Spicer-Sidbury  
CITY CLERK

With a curve Turning to the Left with Arc Length of 180.86 feet. With a radius of 13,098.99 feet. With a Chord Bearing of North 60 degrees 29 minutes 19 seconds West, with a chord length of 180.86 feet to an iron rod found.  
North 60 degrees 41 minutes 51 seconds West a distance of 129.69 feet to a disturbed iron pipe found along the eastern boundary of the lands of Mayfaire, LLC in Deed Book 3968 at Page 972 and Map Book 44 at Page 59;

Thence leaving said right of way and with the lands of Mayfaire, LLC North 29 degrees 15 minutes 56 seconds East a Distance of 63.49 feet to a disturbed iron pipe found along the southern boundary of the lands of The Reserve at Mayfaire, LLC in Deed book 4119 at Page 72 and Map Book 45 at Page 79;

Thence along said southern boundary of said lands of The Reserve at Mayfaire the following two (2) courses and distances:

South 50 degrees 40 minutes 04 seconds East a Distance of 23.40 feet to an iron pipe found;

North 88 degrees 07 minutes 41 seconds East a Distance of 616.25 feet to an iron rod found at the northwestern corner of lot 1 in Map Book 61 at Page 224;

Thence along the western boundary of lot 1 in said Map Book 61 at Page 224 the following two (2) courses and distances:

South 00 degrees 52 minutes 54 seconds West a Distance of 367.52 feet to an iron rod found;

South 75 degrees 48 minutes 11 seconds West a Distance of 92.53 feet to an iron rod found which is the point of Beginning.

Containing 154,781 +/- square feet or 3.553 acres, more or less.

**SECTION 2:** The following rules, regulations, and conditions shall apply to the property described in this ordinance:

- The use and development of the subject property shall comply with all regulations and requirements imposed by the Land Development Code, the City of Wilmington Technical Standards and Specifications Manual and any other applicable federal, state or local law, ordinance or regulation, as well as any condition stated below. In the event of a conflict, the more stringent requirement or higher standard shall apply.
- Approval of this conditional district rezoning does not constitute technical approval of the site plan. Final approval by the Technical Review Committee and the issuance of all required permits must occur prior to release of the project for construction.
- If, for any reason, any condition for approval is found to be illegal or invalid or if the applicant should fail to accept any condition following approval, the approval of the site plan for the district shall be null and void and of no effect and proceedings shall be instituted to rezone the property to its previous zoning classification.

PH1-3

- The use and development of the subject property shall be in accordance with the site plan as submitted and approved by City Council.
- The proposed uses shall be limited to a car wash and accessory vacuum area with associated parking and landscaping.
- Two vehicular connections shall be provided to the adjacent commercial property to the east as detailed on the site plan.
- Pedestrian network shall connect from the proposed sidewalk along Eastwood Road to the adjoining shopping center to the east.
- Strict adherence to the design standards will be confirmed as part of the technical review.
- Exterior lighting shall be installed so as not to shine directly onto adjacent residential parcels.
- Any freestanding sign(s) on the site shall be a maximum of 6 feet in height, monument style with landscaping around the base of the sign; no pole signs shall be permitted.
- The creative standard shall not be used to satisfy the street yard landscaping requirements.
- No tree removal outside of essential site improvements, only clearing of underbrush.
- All City, State and Federal regulations shall be met.

**SECTION 3:** The City Clerk and the Planning Director are hereby authorized and directed under the supervision of the City Manager to change the Zoning Maps on file in the office of the City Clerk and the Planning Division, to conform with this ordinance.

**SECTION 4:** That any person violating the provisions of this ordinance, including the approved site plan, shall be subject to the penalties set forth in Section 18-52 of the Land Development Code.

**SECTION 5:** All ordinances or parts of ordinances in conflict with this ordinance are hereby repealed to the extent of such conflict.

**SECTION 6:** If any section, subsection, paragraph, sentence, clause, phrase or portion of this ordinance is for any reason held invalid or unconstitutional by any court of competent jurisdiction, such portion shall be deemed severable and such holding shall not affect the validity of the remaining portions hereof.

**SECTION 7:** That this ordinance shall be effective upon its adoption by City Council, and the City's receipt of written acceptance by the Applicant of all conditions adopted by the City.

Adopted at a special meeting  
on June 23, 2020

*Bill Saffo*  
Bill Saffo, Mayor

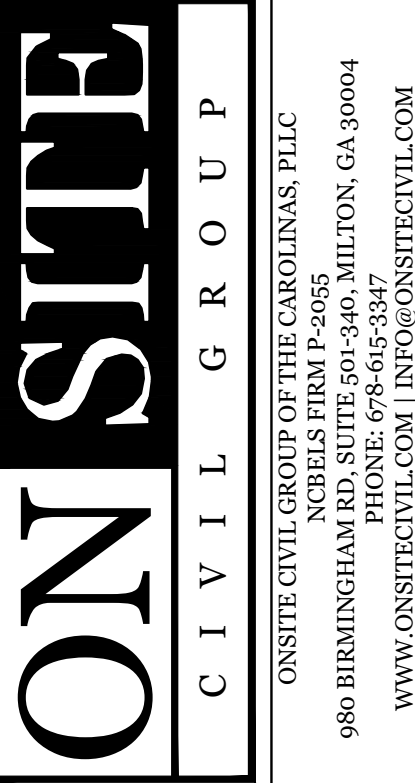
*Penelope Spicer-Sidbury*  
Penelope Spicer-Sidbury, City Clerk



APPROVED AS TO FORM:

*[Signature]*  
City Attorney

PH1-4



THESE DRAWINGS ARE THE PROPERTY OF ONSITE CIVIL GROUP, LLC AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF ONSITE CIVIL GROUP, LLC.

SEAL REDAC  
APPROVED CONSTRUCTION PLAN  
DATED APRIL 14, 2021  
PROJECT # 2020051  
STORMWATER PERMIT # 2021004

REVISIONS		
No.	DATE	DESCRIPTION

CLIENT:  
SND MAYFAIRE, LLC  
943 BALDWIN PARK DR  
WILMINGTON, NC 28411  
CONTACT: STEPHEN UMSTEAD  
910-262-2831  
STEPHEN@PLASHNDASHONLINE.COM

SPLASH N DASH MAYFAIRE  
1445 EASTWOOD RD  
CITY OF WILMINGTON,  
NEW HANOVER COUNTY  
NORTH CAROLINA

ZONING  
CONDITIONS

DATE: MARCH 24, 2021  
PROJECT: 19-050

SHEET: C 202

 Public Services • Engineering Division APPROVED STORMWATER MANAGEMENT PLAN Date: _____ Permit # _____ Signed: _____	APPROVED CONSTRUCTION PLAN	
	Name	Date
	Planning	_____
	Traffic	_____
	Fire	_____



**CAUTION!!!**  
The locations and elevations of existing underground utilities as shown on this drawing are only APPROXIMATE. No guarantee is either expressed or implied as to the completeness of accuracy thereof. The contractor shall be exclusively responsible for determining the exact utility locations and elevations prior to the start of construction

24 HOUR CONTACT:  
ED UMSTEAD  
706-840-4988

**LEGEND:**

- IFF IRON PIPE FOUND
- IRF IRON ROD FOUND
- IRON ROD SET
- CWF CONCRETE MONUMENT FOUND
- PKF PK NAIL FOUND
- PKS PK NAIL SET
- ESMT LINE
- ADJOINER PROPERTY LINE
- SETBACK LINE
- 100-YR FLOOD ZONE LINE
- R.O.W. LINE
- PARCEL/BOUNDARY LINE
- EXISTING CONTOUR
- STORM DRAIN
- C&G CURB & GUTTER
- CLEANOUT
- DROP INLET
- DRAINAGE MANHOLE
- CURB INLET
- LIGHT POLE
- Y GW GUY WIRE
- FIBER POST
- TELEPHONE MANHOLE
- CEDAR
- CHERRY
- GRAPE
- DOGWOOD
- BIRCHORY
- HOLLY
- OAK
- MAGNOLIA
- MAPLE
- MIMOSA
- PECAN
- PINE
- POPLAR
- SYCAMORE
- HARDWOOD
- S SIGNIFICANT



**CAUTION!!!**  
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**SURVEY NOTE:**  
 EXISTING CONDITIONS BASED ON A GROUND RUN TOPOGRAPHIC SURVEY PREPARED BY PARAMOUNT ENGINEERING, INC., DATED 4-13-20. THE BASIS OF BEARING FOR THIS SURVEY IS NAD83. THE VERTICAL DATUM IS NAVD83. ONSITE CIVIL GROUP LLC TAKES NO LIABILITY FOR THE ACCURACY OF THIS SURVEY. CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.

**ONSITE CIVIL GROUP**  
 ONSITE CIVIL GROUP OF THE CAROLINAS, PLLC  
 NCBELLS FIRM P-2065  
 980 BIRMINGHAM RD, SUITE 500-540, MILTON, GA 30004  
 PHONE: 678-985-3300  
 WWW.ONSITECIVIL.COM INFO@ONSITECIVIL.COM

THESE DRAWINGS ARE THE PROPERTY OF ONSITE CIVIL GROUP, LLC AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF ONSITE CIVIL GROUP, LLC.

SEAL REDACT  
 APPROVED CONSTRUCTION PLAN  
 DATED APRIL 13, 2021  
 PROJECT # 2020051  
 STORMWATER PERMIT # 2021004

**REVISIONS**

No.	DATE	DESCRIPTION

HORIZONTAL SCALE: 1" = 40'

**CLIENT:**  
 SND MAYFAIRE, LLC  
 943 BALDWIN PARK DR  
 WILMINGTON, NC 28411  
 CONTACT: STEPHEN UMSTEAD  
 910-262-2831  
 STEPHEN@SPASHNDASHONLINE.COM

**SPLASH N DASH MAYFAIRE**  
 1445 EASTWOOD RD  
 CITY OF WILMINGTON,  
 NEW HANOVER COUNTY  
 NORTH CAROLINA

**EXISTING CONDITIONS**

DATE: MARCH 24, 2021  
 PROJECT: 19-050

SHEET: **C 301**

CURVE	ARC	RADIUS	CHORD BEARING	CHORD
C1	180.86'	13088.99'	N 60°23'19" W	180.86'
C2	56.74'	730.00'	S 03°11'29" W	56.72'

LINE	BEARING	DISTANCE
L1	S 60°40'04" E	23.40'
L2	N 59°24'44" W	3.53'



N/F  
 ROY A SHIRLEY K ASHLEY  
 DB 5947 PG 2140  
 PIN# 3157-05-07-9673  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

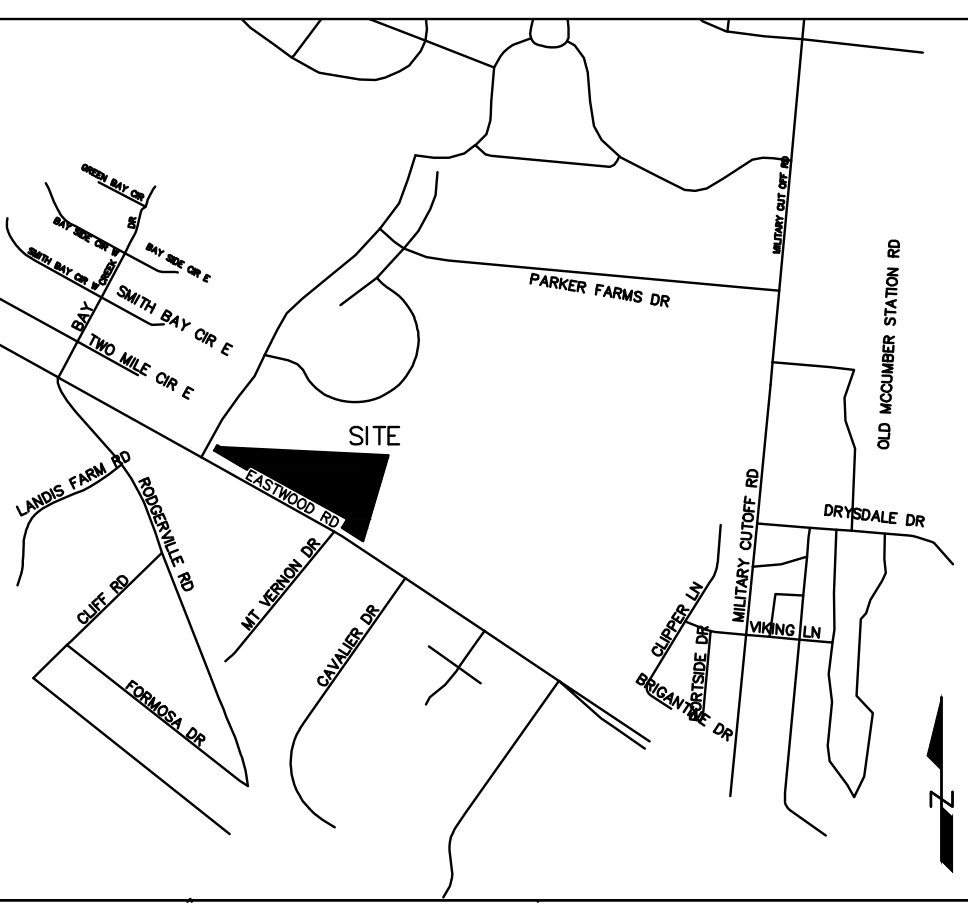
N/F  
 WILLIAM III NINA PELON  
 DB 5939 PG 430  
 PIN# 3157-05-17-0588  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

N/F  
 JAMES D BULLARD II  
 DB 6228 PG 628  
 PIN# 3157-09-17-1434  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

N/F  
 JOHN BRADLEY PIGFORD ETAL  
 DB 5607 PG 2540  
 PIN# 3157-09-17-3401  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

N/F  
 ANN W BECK HEIRS  
 DB 4666 PG 556  
 PIN# 3157-09-17-4381  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

N/F  
 TRAN LOC VAN HOA N ETAL  
 DB 6705 PG 2463  
 PIN# 3157-09-17-7252  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY



**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN

APPROVED CONSTRUCTION PLAN

Name	Date
Planning	
Traffic	
Fire	

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

**24 HOUR CONTACT:**  
 ED UMSTEAD  
 706-840-4988



**CAUTION!!!**  
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**SURVEY NOTE:**  
 EXISTING CONDITIONS BASED ON A GROUND RUN TOPOGRAPHIC SURVEY PREPARED BY PARAMOUNT ENGINEERING, INC., DATED 4-13-20. THE BASIS OF BEARING FOR THIS SURVEY IS NAD83. THE VERTICAL DATUM IS NAVD83. ONSITE CIVIL GROUP LLC TAKES NO LIABILITY FOR THE ACCURACY OF THIS SURVEY. CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.

**ONSITE CIVIL GROUP**  
 ONSITE CIVIL GROUP OF THE CAROLINAS, PLLC  
 NCBELS FIRM P-26055  
 980 BIRMINGHAM RD, SUITE 500-540, MILTON, GA 30004  
 TEL: 770-965-3300  
 WWW.ONSITECIVIL.COM INFO@ONSITECIVIL.COM

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APPROVED CONSTRUCTION PLAN  
 DATED APRIL 14, 2021  
 PROJECT # 2020051  
 STORMWATER PERMIT # 2021004

**REVISIONS**

No.	DATE	DESCRIPTION

HORIZONTAL SCALE: 1"=40'

**CLIENT:**  
 SND MAYFAIRE, LLC  
 943 BALDWIN PARK DR  
 WILMINGTON, NC 28411  
**CONTACT: STEPHEN UMSTEAD**  
 910-262-2831  
 STEPHEN@SPASHNDASHONLINE.COM

**SPLASH N DASH MAYFAIRE**  
 1445 EASTWOOD RD  
 CITY OF WILMINGTON,  
 NEW HANOVER COUNTY  
 NORTH CAROLINA

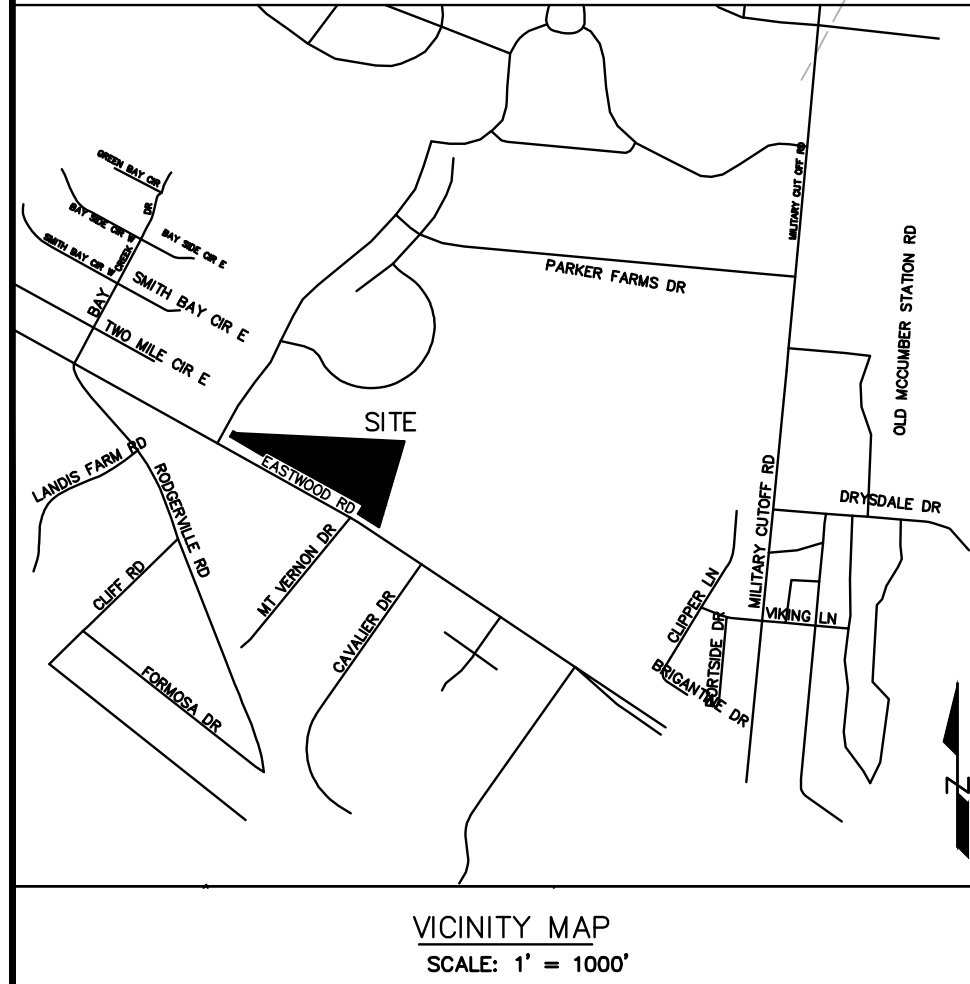
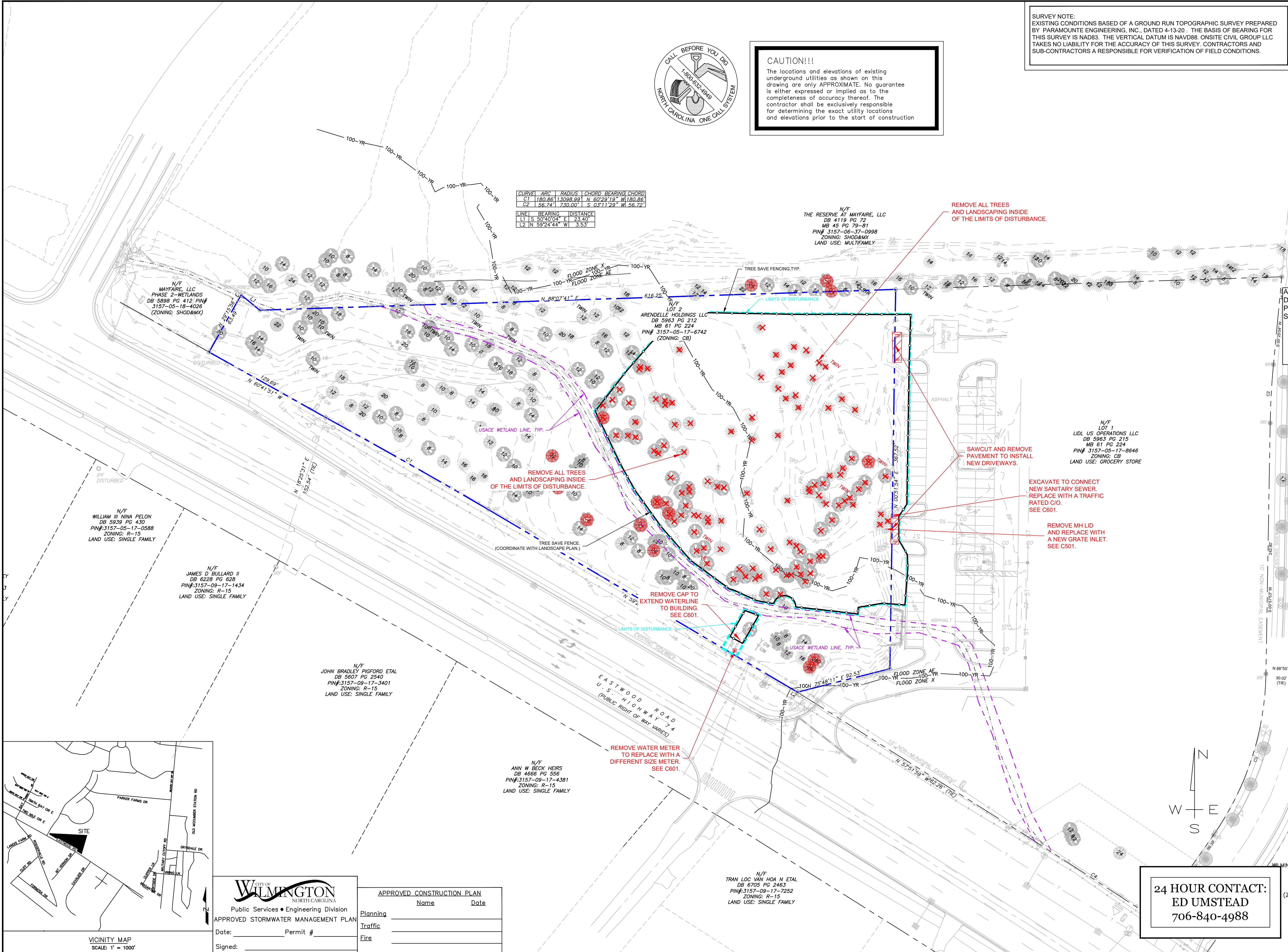
**DEMOLITION PLAN**

DATE: MARCH 24, 2021  
 PROJECT: 19-050  
 SHEET: **C 302**

CURVE	ARC	RADIUS	CHORD BEARING	CHORD
C1	180.86	13098.99	N 60°29'19" W	180.86
C2	26.74	730.00	S 03°11'29" W	56.72

LINE	BEARING	DISTANCE
L1	S 80°40'04" E	23.40
L2	N 59°24'44" W	3.53



**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN

APPROVED CONSTRUCTION PLAN

Name	Date
Planning	
Traffic	
Fire	

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

**24 HOUR CONTACT:**  
 ED UMSTEAD  
 706-840-4988

N/F  
 TRAN LOC VAN HOA N ETAL  
 DB 6705 PG 2463  
 PIN# 3157-09-17-7252  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

N/F  
 ANN W BECK HEIRS  
 DB 4666 PG 586  
 PIN# 3157-09-17-4381  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

N/F  
 JOHN BRADLEY PIGFORD ETAL  
 DB 5607 PG 2540  
 PIN# 3157-09-17-3401  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

N/F  
 JAMES D BULLARD II  
 DB 6228 PG 628  
 PIN# 3157-09-17-1434  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

N/F  
 WILLIAM III NINA PELON  
 DB 5839 PG 430  
 PIN# 3157-05-17-0588  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

N/F  
 MAYFAIRE, LLC  
 PHASE 2-WETLANDS  
 DB 5898 PG 412  
 PIN# 3157-05-18-4026  
 (ZONING: SHOD&M)

N/F  
 THE RESERVE AT MAYFAIRE, LLC  
 DB 4119 PG 72  
 MB 45 PG 79-81  
 PIN# 3157-06-37-0998  
 ZONING: SHOD&M  
 LAND USE: MULTIFAMILY

N/F  
 AREDELLE HOLDINGS LLC  
 DB 5963 PG 212  
 MB 61 PG 224  
 PIN# 3157-05-17-6742  
 (ZONING: CB)

N/F  
 LOT 1  
 LIDL US OPERATIONS LLC  
 DB 5963 PG 215  
 MB 61 PG 224  
 PIN# 3157-05-17-8646  
 ZONING: CB  
 LAND USE: GROCERY STORE

- SITE PLAN NOTES:**
1. PARCEL ID: R05600-001-007-000
  2. PARCEL OWNERSHIP: AREDALE HOLDINGS, LLC, WILMINGTON, NC 28404 CONTACT: JASON SWAIN
  3. CURRENT ZONING: CB(CD), PROPOSED ZONING: N/A
  4. PROPOSED USE(S)-SQUARE FOOTAGE(S) OF USE(S): 4,176 SF CARWASH BUILDING
  5. NUMBER OF UNITS/BEDROOMS: 1 UNIT/BLDG.
  6. BUILDING CONSTRUCTION TYPE: COMMERCIAL, TYPE II-B
  7. BUILDING LOT COVERAGE PERCENTAGE: 4,176 / 154,638 = 2.7%
  8. BUILDING HEIGHT/# OF STORIES: 24'-7" / 1 STORY
  9. BUILDING SETBACKS: REQUIRED (PROPOSED): FRONT=100' (101.5'), SIDE=25' (55.6'), REAR=29' (82.4'), MAXIMUM HEIGHT=35' CANOPY SETBACKS FOR CB ZONING: 10' FROM STREET R/W AND 15' FROM ANY RESIDENTIAL P/L
  10. PARKING SPACES REQUIRED (MIN./PROPOSED): REQUIRED=>4,176/600= 7 SPACES, PROPOSED=11 PARKING SPACES + 21 SERVICE SPACES PARKING MAX ALLOWED IS 20 PER 18-528(d).
  11. IMPERVIOUS COVERAGE-EXISTING/PROPOSED: EXISTING=0SF, PROPOSED=36,993 SF; 36,993 / 154,668 = 23.9%
  12. AMOUNT (SQ FT) OF DISTURBED AREA: 72,142 SF DISTURBED OR 1.66 ACRES DISTURBED
  13. ESTIMATED TRIP GENERATION: 470 VPD (OVER 24 HOUR WEEKDAY), 47 TOTAL TRIPS WILL OCCUR DURING THE WEEKDAY PM PEAK HOUR.
  14. CAMA MAP CLASSIFICATION: WATERSHED RESOURCES PROTECTION AREA, CONSERVATION AREA (BRADLEY CREEK WATERSHED)
  15. ALL NON VACUUM SPACES ARE 9' WIDE  
ALL VACUUM SPACES ARE 12' WIDE  
ALL BUG PREP SPACES ARE 12' WIDE.
  16. SOLID WASTE WILL MANAGED WITH AN ON-SITE DUMPSTER ENCLOSURE SHOWN ON THE SITE PLAN.

- SEC. 18-254. - AUTOMOTIVE SERVICES AND AUTOMOTIVE REPAIR, EXCEPT TOWING**  
AUTOMOTIVE SERVICES AND REPAIRS SHALL COMPLY WITH THE FOLLOWING:
- A. ALL REPAIR WORK OR LUBRICATION SHALL BE CONDUCTED WITHIN THE PRINCIPAL BUILDING. ALL PERMANENT STORAGE OF MATERIALS, MERCHANDISE, OR REPAIR AND SERVICING EQUIPMENT SHALL BE CONTAINED WITHIN THE PRINCIPAL BUILDING.
  - B. NO OPERATOR SHALL PERMIT THE STORAGE OF MOTOR VEHICLES FOR A PERIOD IN EXCESS OF TWENTY-FOUR (24) HOURS UNLESS THE VEHICLES ARE ENCLOSED IN THE PRINCIPAL BUILDING.
  - C. SERVICE OR CUSTOMER VEHICLES SHALL BE PARKED ON THE PREMISES IN A MANNER THAT WILL NOT CREATE TRAFFIC HAZARDS OR INTERFERE WITH THE VEHICULAR MANEUVERING AREA NECESSARY TO ENTER OR EXIT THE SITE.
  - D. THE PREMISES SHALL NOT BE USED FOR THE SALE OF VEHICLES.
  - E. NO OUTDOOR WORK SHALL BE PERFORMED EXCEPT IN AREAS DESIGNATED FOR SUCH ACTIVITY ON AN APPROVED SITE PLAN.
  - F. OUTDOOR WORK AREAS SHALL BE FENCED, WALL OR SCREENED TO MINIMIZE ON-SITE AND OFF-SITE NOISE, GLARE, ODOR OR OTHER IMPACTS.
  - G. ADDITIONAL BUFFERING AND SCREENING MAY BE REQUIRED WHERE SUCH USE IS LOCATED IN CLOSE PROXIMITY TO RESIDENTIAL OR RETAIL COMMERCIAL USES.

**SURVEY NOTE:**  
EXISTING CONDITIONS BASED ON A GROUND RUN TOPOGRAPHIC SURVEY PREPARED BY PARAMOUNTE ENGINEERING, INC., DATED 4-13-20. THE BASIS OF BEARING FOR THIS SURVEY IS NAD83. THE VERTICAL DATUM IS NAVD88. ONSITE CIVIL GROUP LLC TAKES NO LIABILITY FOR THE ACCURACY OF THIS SURVEY. CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.



**CAUTION!!!**  
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CURVE	ARC	RADIUS	CHORD BEARING	CHORD
C1	180.86'	1,309.89'	N 60°29'19" W	180.86'
C2	56.74'	730.00'	S 03°11'29" W	56.72'

LINE	BEARING	DISTANCE
L1	S 50°40'04" E	23.40'
L2	N 59°24'44" W	3.53'

N/F  
THE RESERVE AT MAYFAIRE, LLC  
DB 4119 PG 72  
MB 45 PG 79-81  
PIN# 3157-06-37-0998  
ZONING: SHOD&MX  
LAND USE: MULTIFAMILY

**PROJECT CONTACTS**

DEVELOPER:	SND MAYFAIRE, LLC
	943 BALDWIN PARK DR, WILMINGTON, NC 28411
	STEPHEN UMSTEAD
	910-262-2831 STEPHEN@SPLASHNDASHONLINE.COM
CIVIL ENGINEER	ONSITE CIVIL GROUP, LLC
	980 BIRMINGHAM RD, SUITE 501-340
	MILTON, GA
	404-822-9147, JARRETT@ONSITECIVIL.COM
LANDSCAPE ARCHITECT	PARAMOUNTE ENGINEERING, INC.
	122 CINEMA DRIVE WILMINGTON, NC 28403
	JIM CIRELLO, RLA
	910-791-6707

**ONSITE CIVIL GROUP**  
ONSITE CIVIL GROUP OF THE CAROLINAS, PLLC  
NCHRS FIRM P-2625  
980 BIRMINGHAM RD, SUITE 501-340, MILTON, GA 30004  
PHONE: 404-822-9147  
WWW.ONSITECIVIL.COM | INFO@ONSITECIVIL.COM

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APPROVED CONSTRUCTION PLAN  
DATED APRIL 14, 2021  
PROJECT # 2020051  
STORMWATER PERMIT # 2021004

**REVISIONS**

No.	DATE	DESCRIPTION

HORIZONTAL SCALE: 1"=40'

**CLIENT:**  
SND MAYFAIRE, LLC  
943 BALDWIN PARK DR  
WILMINGTON, NC 28411  
CONTACT: STEPHEN UMSTEAD  
910-262-2831  
STEPHEN@SPLASHNDASHONLINE.COM

**SPLASH N DASH MAYFAIRE**  
1445 EASTWOOD RD  
CITY OF WILMINGTON,  
NEW HANOVER COUNTY  
NORTH CAROLINA

**OVERALL SITE PLAN**

DATE:	MARCH 24, 2021
PROJECT:	19-050
SHEET:	C 401

- CITY OF WILMINGTON GENERAL NOTES:**
1. PRIOR TO ANY CLEARING, GRADING OR ANY CONSTRUCTION ACTIVITY, TREE PROTECTION FENCE WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCE.
  2. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
  3. ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING TO REQUEST INSTALLATION OF STREET NAME SIGNS.
  4. TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
  5. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN. ADD A NOTE TO CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
  6. ANY MISSING OR BROKEN SIDEWALK PANELS, DRIVEWAY PANELS, OR CURB PANELS WILL BE REPLACED.
  7. CONTACT TRAFFIC ENGINEERING AT 910-341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
  8. CONTACT 811 PRIOR TO CONTACTING CITY OF WILMINGTON, TRAFFIC ENGINEERING REGARDING THE UTILITIES IN THE R/W.
  9. IF THE CONTRACTOR DESIRES CITY WATER FOR CONSTRUCTION HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
  10. ANY IRRIGATION SYSTEM SUPPLIED BY CITY WATER SHALL COMPLY WITH THE CITY'S CROSS CONNECTION CONTROL REGULATIONS. CALL 343-3910 FOR INFORMATION.
  11. ANY BACKFLOW DEVICES REQUIRED BY THE CITY WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFCOCHR OR ASSE.
  12. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.

- CITY OF WILMINGTON NOTES:**
1. CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION
  2. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3 FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC
  3. ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
  4. CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL COMMERCIAL BUILDINGS THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET SECTION 510 REQUIREMENTS OF THE 2018 NC FIRE CODE.
  5. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.
  6. PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
  7. SIGN PERMIT WILL BE OBTAINED THROUGH ZONING AS PART OF A SEPARATE PROCESS

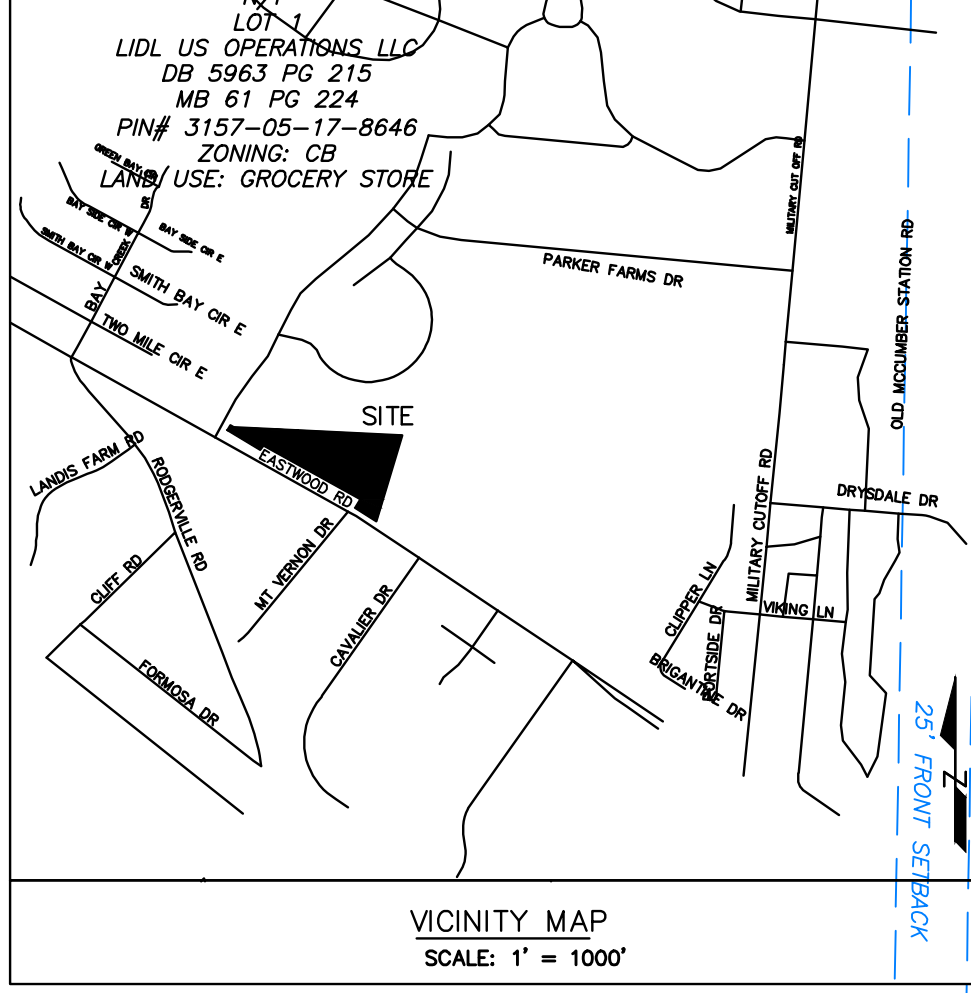
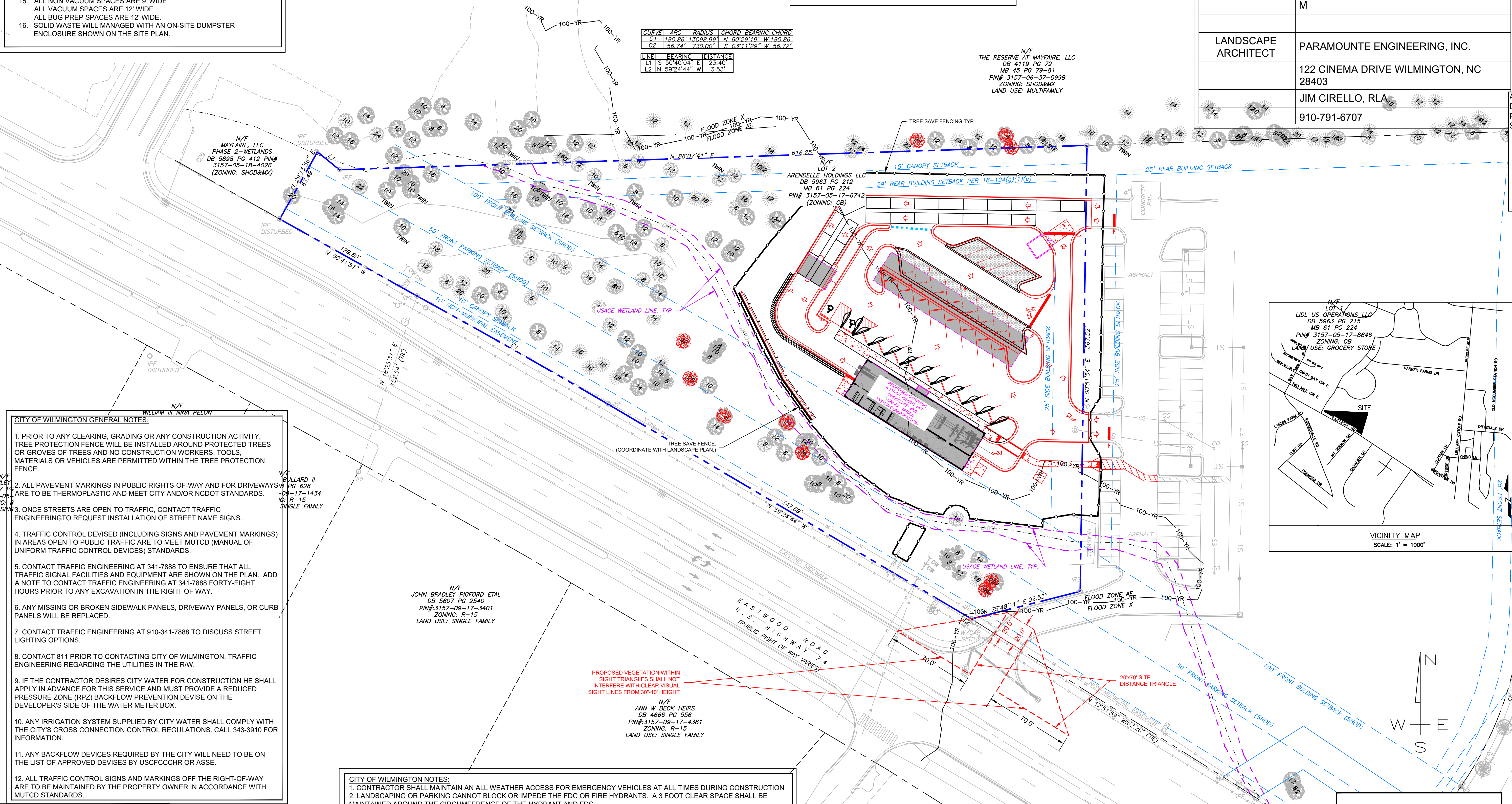
**CITY OF WILMINGTON**  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

**APPROVED CONSTRUCTION PLAN**

Name	Date
Planning	_____
Traffic	_____
Fire	_____

**24 HOUR CONTACT:**  
ED UMSTEAD  
706-840-4988



Public Services • Engineering Division

N/F  
TRAN LOC VAN HOA N ETAL  
DB 6705 PG 2463  
PIN# 3157-09-17-7252  
ZONING: R-15  
LAND USE: SINGLE FAMILY

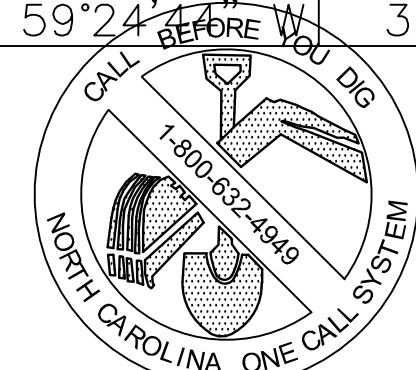
PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10' HEIGHT

N/F  
ANN W BECK HEIRS  
DB 4866 PG 556  
PIN# 3157-09-17-4381  
ZONING: R-15  
LAND USE: SINGLE FAMILY

N/F  
JOHN BRADLEY PIGFORD ETAL  
DB 5607 PG 2540  
PIN# 3157-09-17-3401  
ZONING: R-15  
LAND USE: SINGLE FAMILY

- SITE PLAN NOTES:**
1. PARCEL ID: R05600-001-007-000
  2. PARCEL OWNERSHIP: ARENDELLE HOLDINGS, LLC, WILMINGTON, NC 28404
  3. CONTACT: JASON SWAIN
  4. CURRENT ZONING: CB(CD), PROPOSED ZONING: N/A
  5. PROPOSED USE(S)-SQUARE FOOTAGE(S) OF USE(S): 4,176 SF CARWASH BUILDING
  6. NUMBER OF UNITS/BEDROOMS: 1 UNIT/BLDG.
  7. BUILDING CONSTRUCTION TYPE: COMMERCIAL, TYPE II-B
  8. BUILDING LOT COVERAGE PERCENTAGE: 4.176 / 154,638 = 2.7%
  9. BUILDING HEIGHT# OF STORIES: 24'7" / 1 STORY
  10. BUILDING SETBACKS, REQUIRED (PROPOSED): FRONT=100' (101.5'), SIDE=25' (55.6'), REAR=29' (82.4'), MAXIMUM HEIGHT=35'
  11. CANOPY SETBACKS FOR CB ZONING: 10' FROM STREET R/W AND 15' FROM ANY RESIDENTIAL P/L
  12. PARKING SPACES REQUIRED (MIN.)/PROPOSED: REQUIRED=>4,176/600=7 SPACES, PROPOSED=11 PARKING SPACES + 21 SERVICE SPACES PARKING MAX ALLOWED IS 20 PER 18-528(d)
  13. IMPERVIOUS COVERAGE EXISTING/PROPOSED: EXISTING=0SF, PROPOSED=36,993 SF, 36,993 / 154,638 = 23.9%
  14. AMOUNT (SQ FT) OF DISTURBED AREA: 72,142 SF DISTURBED OR 1.66 ACRES DISTURBED
  15. ESTIMATED TRIP GENERATION: 470 VPD (OVER 24 HOUR WEEKDAY), 47 TOTAL TRIPS WILL OCCUR DURING THE WEEKDAY PM PEAK HOUR.
  16. CAMA MAP CLASSIFICATION: WATERSHED RESOURCES PROTECTION AREA, CONSERVATION AREA (BRADLEY CREEK WATERSHED)
  17. ALL NON VACUUM SPACES ARE 9' WIDE
  18. ALL VACUUM SPACES ARE 12' WIDE
  19. ALL BUG PREP SPACES ARE 12' WIDE
  20. SOLID WASTE WILL BE MANAGED WITH AN ON-SITE DUMPSTER ENCLOSURE SHOWN ON THE SITE PLAN.

L1 S 50°40'04" E 23.40'  
L2 N 59°24'44" W 3.53'



**CAUTION!!!**  
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**SURVEY NOTE:**  
EXISTING CONDITIONS BASED ON A GROUND RUN TOPOGRAPHIC SURVEY PREPARED BY PARAMOUNT ENGINEERING, INC., DATED 4-13-20. THE BASIS OF BEARING FOR THIS SURVEY IS NAD83. THE VERTICAL DATUM IS NAVD83. ONSITE CIVIL GROUP LLC TAKES NO LIABILITY FOR THE ACCURACY OF THIS SURVEY. CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.

DB 4119 PG 72  
MB 45 PG 79-81  
PIN# 3157-06-37-0998  
ZONING: SHOD&MX  
LAND USE: MULTIFAMILY

- SEC. 18-254 - AUTOMOTIVE SERVICES AND AUTOMOTIVE REPAIR, EXCEPT TOWING.**
- AUTOMOTIVE SERVICES AND REPAIRS SHALL COMPLY WITH THE FOLLOWING:
- ALL REPAIR WORK OR LUBRICATION SHALL BE CONDUCTED WITHIN THE PRINCIPAL BUILDING. ALL PERMANENT STORAGE OF MATERIALS, MERCHANDISE, OR REPAIR AND SERVICING EQUIPMENT SHALL BE CONTAINED WITHIN THE PRINCIPAL BUILDING.
  - NO OPERATOR SHALL PERMIT THE STORAGE OF MOTOR VEHICLES FOR A PERIOD IN EXCESS OF TWENTY-FOUR (24) HOURS UNLESS THE VEHICLES ARE ENCLOSED IN THE PRINCIPAL BUILDING.
  - SERVICE OR CUSTOMER VEHICLES SHALL BE PARKED ON THE PREMISES IN A MANNER THAT WILL NOT CREATE TRAFFIC HAZARDS OR INTERFERE WITH THE VEHICULAR MANEUVERING AREA NECESSARY TO ENTER OR EXIT THE SITE.
  - THE PREMISES SHALL NOT BE USED FOR THE SALE OF VEHICLES.
  - NO OUTDOOR WORK SHALL BE PERFORMED EXCEPT IN AREAS DESIGNATED FOR SUCH ACTIVITY ON AN APPROVED SITE PLAN.
  - OUTDOOR WORK AREAS SHALL BE FENCED, WALLED OR SCREENED TO MINIMIZE ON-SITE AND OFF-SITE NOISE, GLARE, ODOR OR OTHER IMPACTS.
  - ADDITIONAL BUFFERING AND SCREENING MAY BE REQUIRED WHERE SUCH USE IS LOCATED IN CLOSE PROXIMITY TO RESIDENTIAL OR RETAIL COMMERCIAL USES.

- CITY OF WILMINGTON GENERAL NOTES:**
1. PRIOR TO ANY CLEARING, GRADING OR ANY CONSTRUCTION ACTIVITY, TREE PROTECTION FENCE WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCE.
  2. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
  3. ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING TO REQUEST INSTALLATION OF STREET NAME SIGNS.
  4. TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
  5. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN. ADD A NOTE TO CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
  6. ANY MISSING OR BROKEN SIDEWALK PANELS, DRIVEWAY PANELS, OR CURB PANELS WILL BE REPLACED.
  7. CONTACT TRAFFIC ENGINEERING AT 910-341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
  8. PROJECT WILL COMPLY WITH CITY OF WILMINGTON CROSS CONNECTION CONTROL REQUIREMENTS.
  9. IF THE CONTRACTOR DESIRES CITY WATER FOR CONSTRUCTION HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICES ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
  10. ANY IRRIGATION SYSTEM SUPPLIED BY CITY WATER SHALL COMPLY WITH THE CITY'S CROSS CONNECTION CONTROL REGULATIONS. CALL 343-3910 FOR INFORMATION.
  11. ANY BACKFLOW DEVICES REQUIRED BY THE CITY WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCFCOCHR OR ASSE.

- CITY OF WILMINGTON NOTES:**
1. CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION
  2. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3 FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC
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**CITY OF WILMINGTON**  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

APPROVED CONSTRUCTION PLAN		
Name	Date	
Planning		
Traffic		
Fire		

**ONSITE CIVIL GROUP**  
ONSITE CIVIL GROUP OF THE CAROLINAS, PLLC  
NCHS FIRM P-2025  
980 BIRMINGHAM RD, SUITE 501-540, MILITON, GA 30004  
PHONE: 678-535-3300  
WWW.ONSITECIVIL.COM INFO@ONSITECIVIL.COM

THESE DRAWINGS ARE THE PROPERTY OF ONSITE CIVIL GROUP, LLC AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF ONSITE CIVIL GROUP, LLC.

APPROVED CONSTRUCTION PLAN  
DATED APRIL 14, 2021  
PROJECT # 2020051  
STORMWATER PERMIT # 2021004

No.	DATE	DESCRIPTION

HORIZONTAL SCALE: 1"=20'

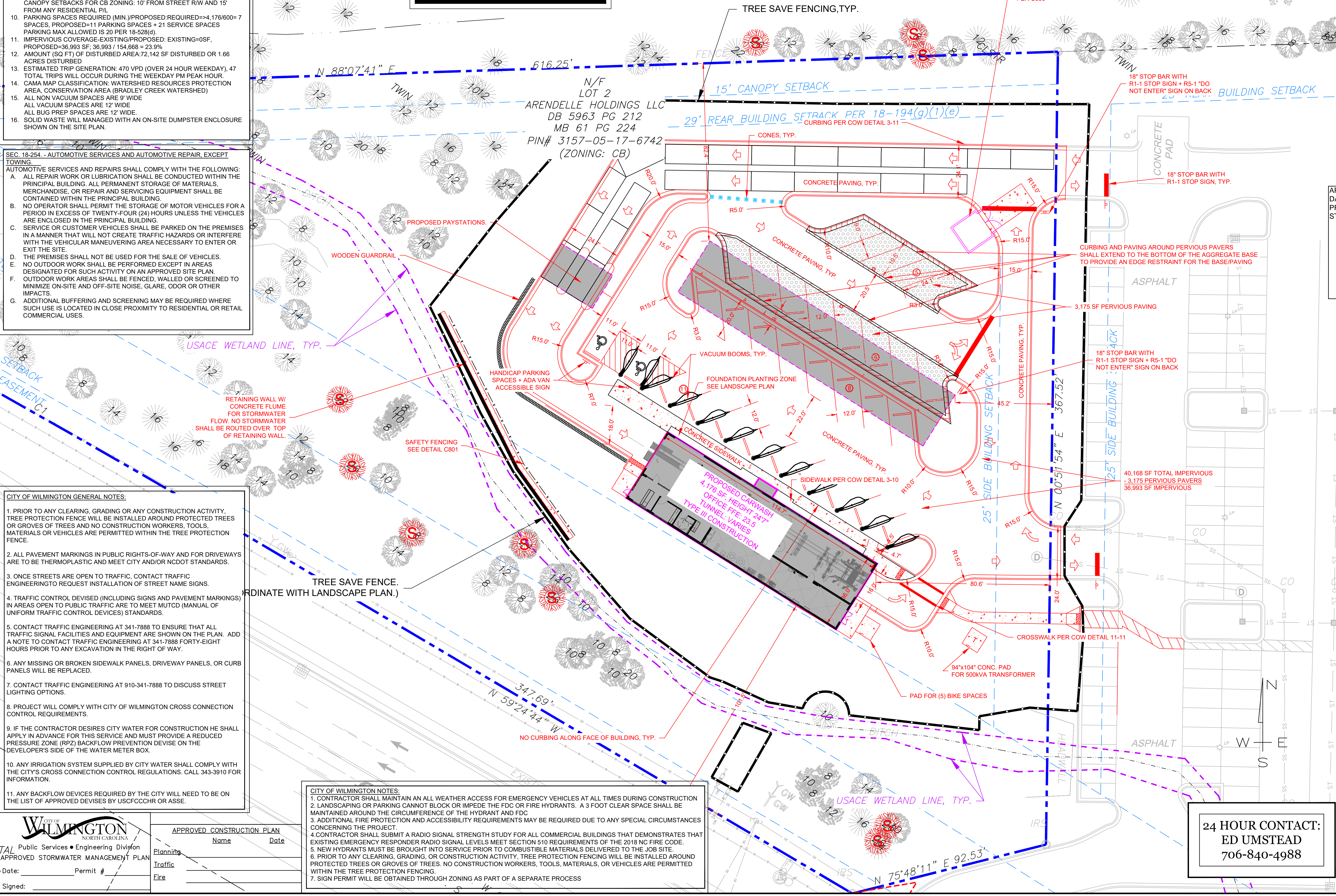
**CLIENT:**  
SND MAYFAIRE, LLC  
943 BALDWIN PARK DR  
WILMINGTON, NC 28411  
**CONTACT: STEPHEN UMSTEAD**  
910-262-2831  
STEPHEN@SPLASHDASHONLINE.COM

**SPLASH N DASH MAYFAIRE**  
1445 EASTWOOD RD  
CITY OF WILMINGTON,  
NEW HANOVER COUNTY  
NORTH CAROLINA

**DETAILED SITE PLAN**

DATE: MARCH 24, 2021  
PROJECT: 19-050

SHEET: **C 401.1**



**24 HOUR CONTACT:**  
**ED UMSTEAD**  
706-840-4988

**SURVEY NOTE:**  
 EXISTING CONDITIONS BASED OF A GROUND RUN TOPOGRAPHIC SURVEY PREPARED BY PARAMOUNT ENGINEERING, INC., DATED 4-13-20. THE BASIS OF BEARING FOR THIS SURVEY IS NAD83. THE VERTICAL DATUM IS NAVD88. ONSITE CIVIL GROUP LLC TAKES NO LIABILITY FOR THE ACCURACY OF THIS SURVEY. CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.

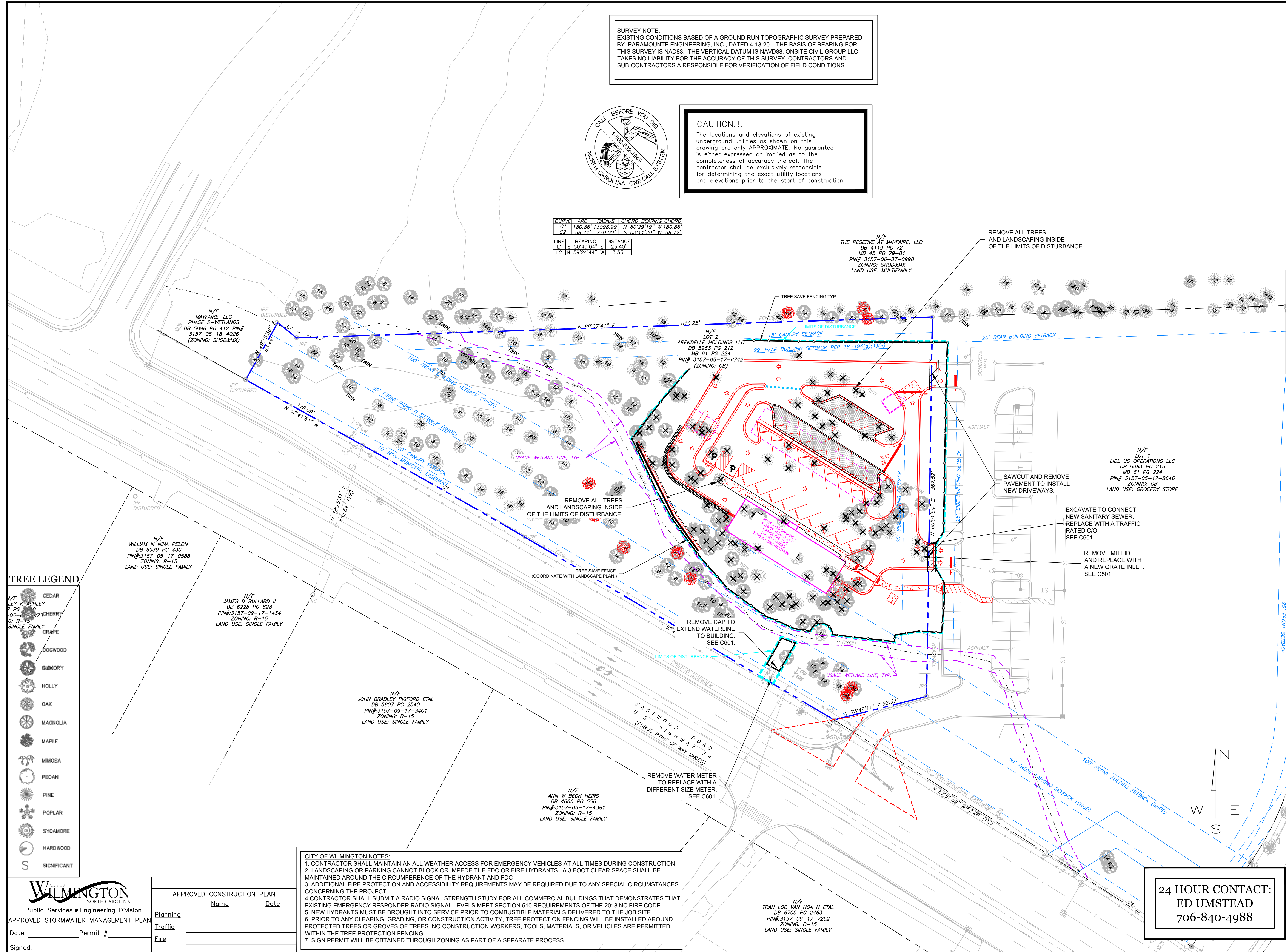


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LINE	BEARING	DISTANCE
L1	S 50°40'04" E	23.40'
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**ONSITE CIVIL GROUP**  
 ONSITE CIVIL GROUP OF THE CAROLINAS, PLLC  
 NCBELS FIRM P-2055  
 980 BIRMINGHAM RD, SUITE 500-5300  
 MILTON, GA 30004  
 WWW.ONSITECIVIL.COM INFO@ONSITECIVIL.COM

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APPROVED CONSTRUCTION PLAN  
 DATED APRIL 14, 2021  
 PROJECT # 2020051  
 STORMWATER PERMIT # 2021004

**REVISIONS**

No.	DATE	DESCRIPTION

HORIZONTAL SCALE: 1"=40'

**CLIENT:**  
 SND MAYFAIRE, LLC  
 943 BALDWIN PARK DR  
 WILMINGTON, NC 28411  
 CONTACT: STEPHEN UMSTEAD  
 910-262-2831  
 STEPHEN@SPLASHNDASHONLINE.COM

**SPLASH N DASH MAYFAIRE**  
 1445 EASTWOOD RD  
 CITY OF WILMINGTON,  
 NEW HANOVER COUNTY  
 NORTH CAROLINA

**TREE OVERLAY PLAN**

DATE:	MARCH 24, 2021
PROJECT:	19-050
SHEET:	C 402

**TREE LEGEND**

CEY	CEY
ASH	ASH
CH	CHERRY
CR	CRAPE
DOG	DOGWOOD
BIM	BIMBORY
HOL	HOLLY
OAK	OAK
MAG	MAGNOLIA
MAP	MAPLE
MIM	MIMOSA
PEC	PECAN
PIN	PINE
POP	POPLAR
SYC	SYCAMORE
HAR	HARDWOOD
S	SIGNIFICANT

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

**APPROVED CONSTRUCTION PLAN**

Name	Date
Planning	
Traffic	
Fire	

**CITY OF WILMINGTON NOTES:**  
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**24 HOUR CONTACT:**  
 ED UMSTEAD  
 706-840-4988





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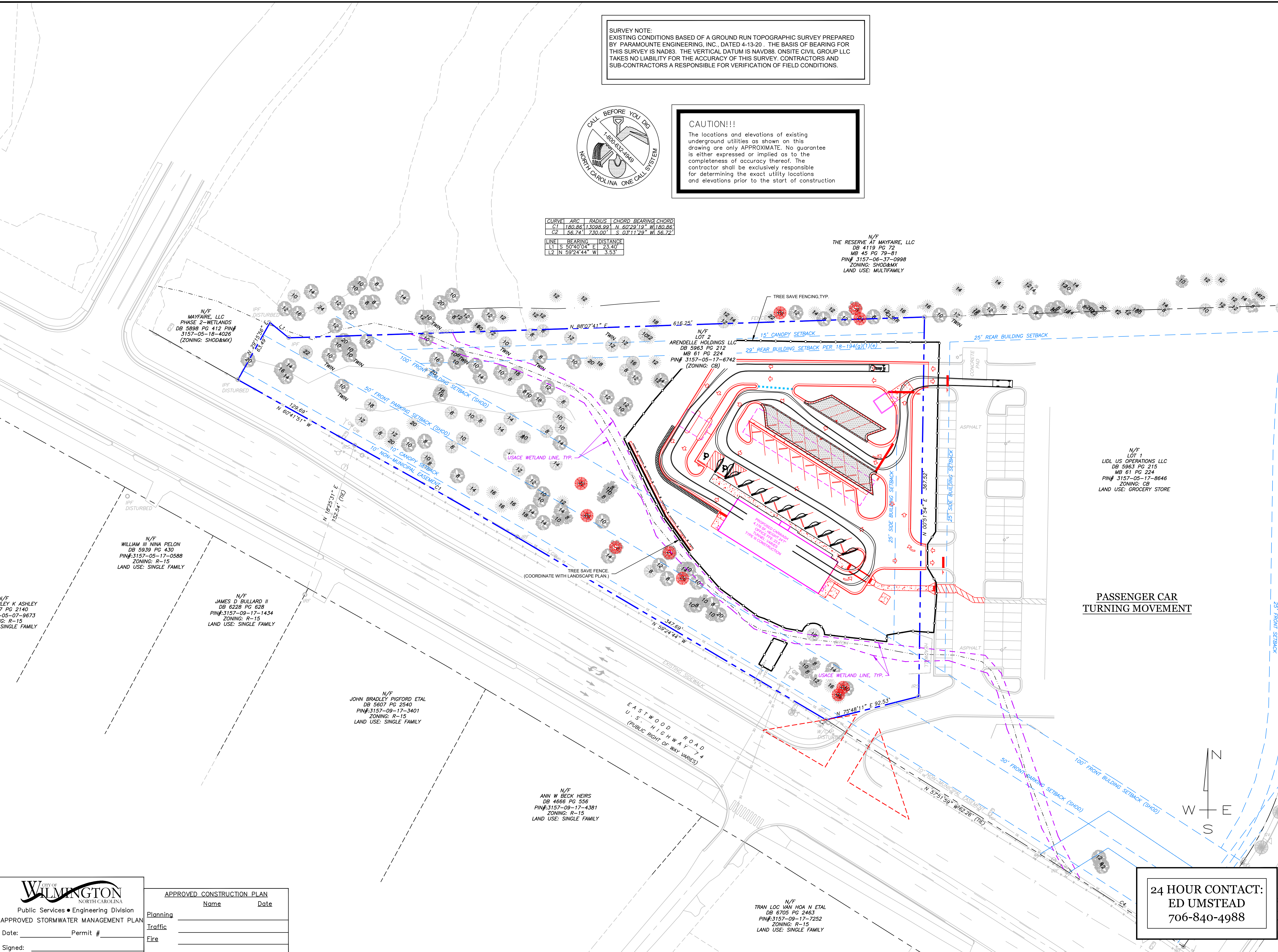
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LINE	BEARING	DISTANCE
L1	S 50°40'04" E	23.40'
L2	N 59°24'44" W	3.53'

N/F  
 THE RESERVE AT MAYFAIRE, LLC  
 DB 4119 PG 72  
 MB 45 PG 79-81  
 PIN# 3157-06-37-0998  
 ZONING: SHOD&MX  
 LAND USE: MULTIFAMILY



**ONSITE CIVIL GROUP**  
 ONSITE CIVIL GROUP OF THE CAROLINAS, PLLC  
 980 BIRMINGHAM RD, SUITE 500-540, MILTON, GA 30004  
 PHONE: 770-965-3300  
 WWW.ONSITECIVIL.COM | INFO@ONSITECIVIL.COM

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APPROVED CONSTRUCTION PLAN  
 DATED APRIL 14, 2021  
 PROJECT # 2020051  
 stormwater permit # 2021004

**REVISIONS**

No.	DATE	DESCRIPTION

HORIZONTAL SCALE: 1"=40'

**CLIENT:**  
 SND MAYFAIRE, LLC  
 943 BALDWIN PARK DR  
 WILMINGTON, NC 28411  
 CONTACT: STEPHEN UMSTEAD  
 910-262-2831  
 STEPHEN@SPLASHNDASHONLINE.COM

**SPLASH N DASH MAYFAIRE**  
 1445 EASTWOOD RD  
 CITY OF WILMINGTON,  
 NEW HANOVER COUNTY  
 NORTH CAROLINA

**TURNING MOVEMENT PLAN**

DATE: MARCH 24, 2021  
 PROJECT: 19-050

SHEET: **C 404**

**24 HOUR CONTACT:**  
 ED UMSTEAD  
 706-840-4988

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN  
 Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

APPROVED CONSTRUCTION PLAN

Name	Date
Planning	_____
Traffic	_____
Fire	_____

N/F  
 JOHN BRADLEY PIGFORD ETAL  
 DB 5607 PG 2540  
 PIN# 3157-09-17-3401  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

N/F  
 ANN W BECK HEIRS  
 DB 4866 PG 556  
 PIN# 3157-09-17-4381  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

N/F  
 TRAN LOC VAN HOA N ETAL  
 DB 6705 PG 2463  
 PIN# 3157-09-17-7252  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

N/F  
 LOT 1  
 LIDL US OPERATIONS LLC  
 DB 5963 PG 215  
 MB 61 PG 224  
 PIN# 3157-05-17-8646  
 ZONING: CB  
 LAND USE: GROCERY STORE

N/F  
 WILLIAM III NINA PELON  
 DB 5939 PG 430  
 PIN# 3157-05-17-0588  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

N/F  
 JAMES D BULLARD II  
 DB 8229 PG 629  
 PIN# 3157-09-17-1434  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

N/F  
 MAYFAIRE, LLC  
 PHASE 2-WETLANDS  
 DB 5898 PG 412  
 PIN# 3157-05-18-4026  
 (ZONING: SHOD&MX)

N/F  
 LOT 2  
 ARENDELLE HOLDINGS LLC  
 DB 5963 PG 212  
 MB 61 PG 224  
 PIN# 3157-05-17-6742  
 (ZONING: CB)

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**ON SITE CIVIL GROUP**  
 ONSITE CIVIL GROUP OF THE CAROLINAS, PLLC  
 NCBELS FIRM P-2065  
 980 BIRMINGHAM RD, SUITE 500-540, MILTON, GA 30004  
 PHONE: 770-965-3300  
 WWW.ONSITECIVIL.COM INFO@ONSITECIVIL.COM

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approved construction plan dated April 14, 2021  
 project # 2020051  
 stormwater permit # 2021004

**REVISIONS**

No.	DATE	DESCRIPTION

HORIZONTAL SCALE: 1"=40'

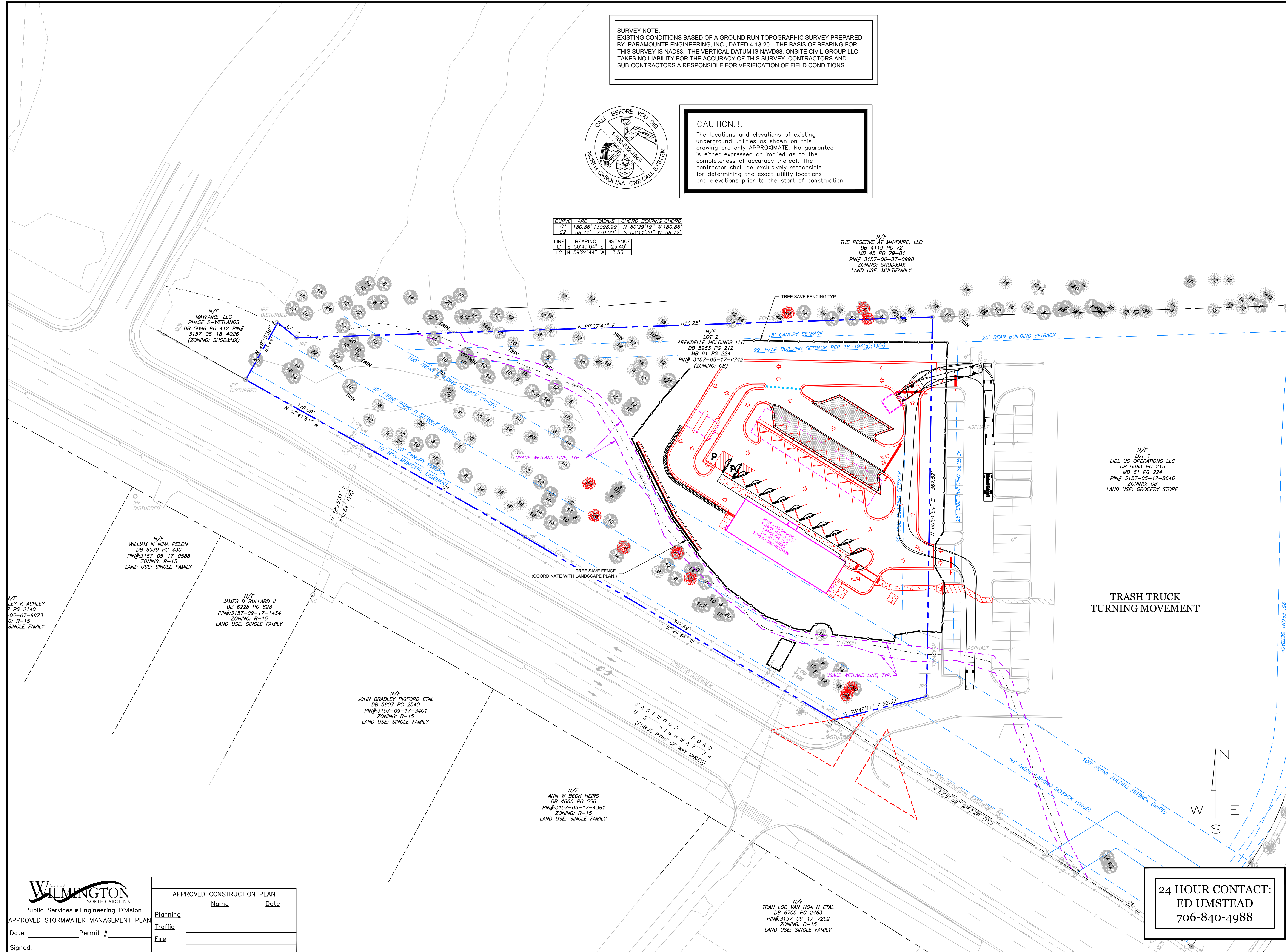
**CLIENT:**  
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 WILMINGTON, NC 28411  
 CONTACT: STEPHEN UMSTEAD  
 910-262-2831  
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**SPLASH N DASH MAYFAIRE**  
 1445 EASTWOOD RD  
 CITY OF WILMINGTON,  
 NEW HANOVER COUNTY  
 NORTH CAROLINA

**TURNING MOVEMENT PLAN**

DATE: MARCH 24, 2021  
 PROJECT: 19-050

SHEET: C 405



N/F  
 WILLIAM III NINA PELON  
 DB 5939 PG 430  
 PIN# 3157-05-17-0588  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

N/F  
 JAMES D BULLARD II  
 DB 8229 PG 629  
 PIN# 3157-09-17-1434  
 ZONING: R-15  
 LAND USE: SINGLE FAMILY

N/F  
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 DB 5607 PG 2540  
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 ZONING: R-15  
 LAND USE: SINGLE FAMILY

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 PIN# 3157-09-17-4381  
 ZONING: R-15  
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N/F  
 TRAN LOC VAN HOA N ETAL  
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**CITY OF WILMINGTON**  
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 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN

**APPROVED CONSTRUCTION PLAN**

Name	Date
Planning	
Traffic	
Fire	

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

**CONSTRUCTION SEQUENCE NOTES:**

- OBTAIN GRADING/EROSION CONTROL PLAN APPROVAL FROM THE CITY OF WILMINGTON ENGINEERING DEPARTMENT. OBTAIN STORMWATER AND OTHER PLAN APPROVALS FROM CITY OF WILMINGTON.
- SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH EROSION CONTROL INSPECTOR OF THE CITY ENGINEERING DEPARTMENT TO DISCUSS EROSION CONTROL MEASURES. ALSO SCHEDULE A PRECON WITH THE CITY ENGINEERING DEPARTMENT. FAILURE TO SCHEDULE SUCH CONFERENCE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS A VIOLATION OF THE CITY CODE AND IS SUBJECT TO FINE.
- INSTALL SILT FENCE, INLET PROTECTION, SEDIMENT TRAPS, DIVERSION DITCHES, TREE PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS. CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
- CALL FOR ON-SITE INSPECTION BY INSPECTOR. WHEN APPROVED, INSPECTOR ISSUES GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
- FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL INSPECTOR PRIOR TO COMMENCING WITH EACH PHASE OF EROSION CONTROL MEASURES.
- STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE.
- COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURE.
- DETENTION WILL BE CLEANED OUT WHEN SITE WORK AND PAVING ARE COMPLETED AND A FINAL PERMANENT GROUND COVER IS ESTABLISHED.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, US DEPT OF AGRICULTURE, CITY OF WILMINGTON EROSION CONTROL ORDINANCE, AND THE WILMINGTON LAND DEVELOPMENT STANDARDS MANUAL.

**GRADING NOTES:**

- NO LAND DISTURBANCE INCLUDING TREE REMOVAL IS TO OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THESE PLANS.
- NO EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING HAS BEEN INSTALLED AND APPROVED.
- PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND THAT LAND CLEARING AND CONSTRUCTION CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION REQUIREMENTS AND METHODS.

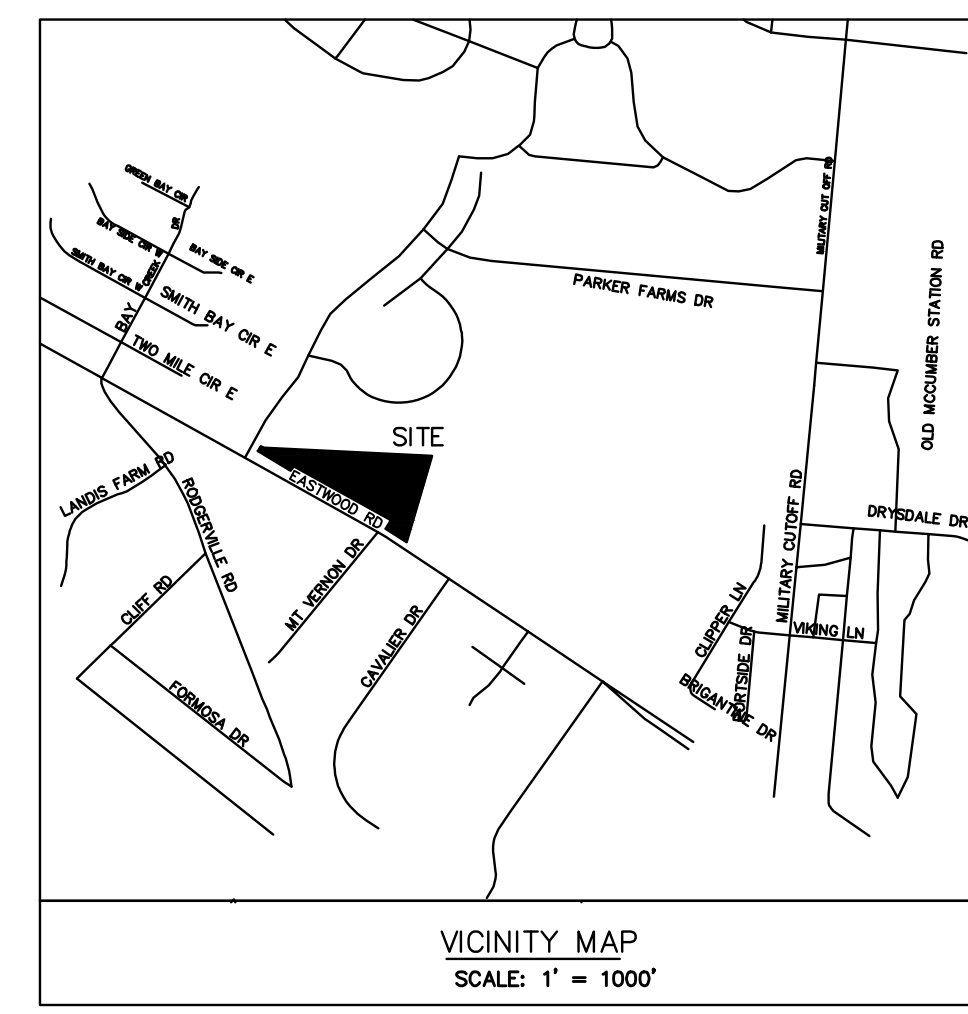
**PERVIOUS PAVING NOTES:**

- PERMEABLE PAVING SHALL NOT BE INSTALLED IN AREAS WHERE TOXIC POLLUTANTS ARE STORED OR HANDLED.
- THE SOIL SUBGRADE SURFACE SHALL HAVE A SLOPE OF LESS THAN OR EQUAL TO 2%.
- ONLY WASHED AGGREGATE BASE MATERIALS SHALL BE USED.
- THE SOIL SUBGRADE FOR INFILTRATING PAVEMENT SHALL BE GRADED WHEN THERE IS NO PRECIPITATION.
- AFTER INSTALLATION, PERMEABLE PAVEMENT SHALL BE PROTECTED FROM SEDIMENT DEPOSITION UNTIL THE SITE IS COMPLETED AND STABILIZED. AN IN-SITU INFILTRATION PERMEABILITY TEST SHALL BE CONDUCTED AND CERTIFIED ON THE PAVEMENT AFTER SITE STABILIZATION.

**GRADING NOTES:**

- ENGINEER WILL BE NOTIFIED WHEN CURB IS STAKED AND STRING LINE IS IN PLACE SO THAT ENGINEER CAN PERFORM DRAINAGE INSPECTION BEFORE CURB IS POURED.
- ENGINEER SHALL PERFORM INSPECTION OF ALL AREAS TO BE TREATED WITH PERMANENT GROUND COVER BEFORE ANY MULCH, SEEDING, OR SOD IS INSTALLED.
- FOR ITEMS 1 & 2 ABOVE CONTRACTOR PROCEEDS AT THEIR OWN RISK IF INSPECTIONS ARE NOT PERFORMED.
- GRADE ALL AREAS TO DRAIN TO INLETS AT 1% MINIMUM ON PAVEMENT, 2% ON GRASS, 3% IN MULCH/STRAWED AREAS.
- SPOT ELEVATIONS ARE SHOWN AS +800.00
- ALL SPOT ELEVATIONS ARE GUTTER/PAVEMENT AND NOT TOP OF CURB UNLESS NOTED**
- FINISHED GRADE IN LANDSCAPED AREAS (TOP OF MULCH, ETC.) SHALL NOT BE LESS THAN 8" BELOW FINISHED FLOOR ELEVATION EXCEPT AT ENTRY POINTS
- ALL PROPOSED CURB HEIGHT TO BE 6" UNLESS SPECIFICALLY NOTED.
- ALL CURB TO BE 24" UNLESS OTHERWISE NOTED.
- OWNERS REPRESENTATIVE OR CIVIL ENGINEER SHALL BE PRESENT AT PROOF ROLL OF SUB GRADE AND/OR GAB (IF APPLICABLE).

**SURVEY NOTE:**  
EXISTING CONDITIONS BASED ON A GROUND RUN TOPOGRAPHIC SURVEY PREPARED BY PARAMOUNT ENGINEERING, INC., DATED 4-13-20. THE BASIS OF BEARING FOR THIS SURVEY IS NAD83. THE VERTICAL DATUM IS NAVD88. ONSITE CIVIL GROUP LLC TAKES NO LIABILITY FOR THE ACCURACY OF THIS SURVEY. CONTRACTORS AND SUB-CONTRACTORS ARE RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.



**ON SITE CIVIL GROUP**  
ONSITE CIVIL GROUP OF THE CAROLINAS, PLLC  
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approved construction plan dated april 14, 2021  
project # 2020051  
stormwater permit # 2021004

**REVISIONS**

No.	DATE	DESCRIPTION

HORIZONTAL SCALE: 1" = 40'

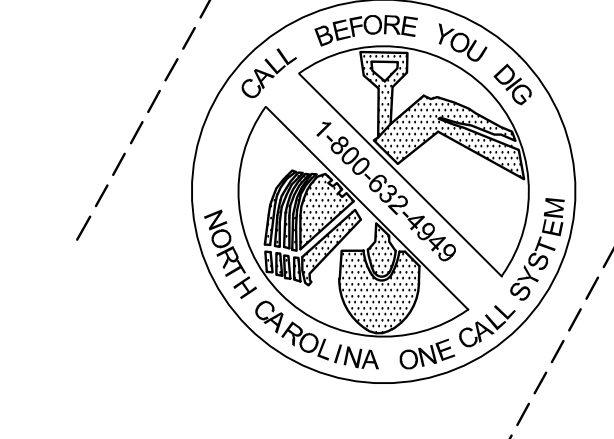
**CLIENT:**  
SND MAYFAIRE, LLC  
943 BALDWIN PARK DR  
WILMINGTON, NC 28411  
**CONTACT: STEPHEN UMSTEAD**  
910-262-2831  
STEPHEN@SPASHNDASHONLINE.COM

**SPLASH N DASH MAYFAIRE**  
1445 EASTWOOD RD  
CITY OF WILMINGTON,  
NEW HANOVER COUNTY  
NORTH CAROLINA

**GRADING AND DRAINAGE PLAN**

DATE: MARCH 24, 2021  
PROJECT: 19-050

SHEET: **C 501**



**CAUTION!!!**  
The locations and elevations of existing underground utilities as shown on this drawing are only APPROXIMATE. No guarantee is either expressed or implied as to the completeness of accuracy thereof. The contractor shall be exclusively responsible for determining the exact utility locations and elevations prior to the start of construction.

**CAMA NARRATIVE:**  
PROJECT MEETS BASELINE CRITERIA FOR WATERSHED PROTECTION CLASSIFICATION:  
1. IMPERVIOUS SURFACE ARE LESS THAN 25%  
2. WOULD NEED 1,874 SF ADDITIONAL IMPERVIOUS TO BE ABOVE 25% AND WOULDNT BE ALLOWED TO DRAIN TO LIDL POND. ANY ADDITIONAL IMPERVIOUS SURFACE WOULD BE REQUIRED TO BE PERVIOUS PAVING.  
3. NO STREAMS OR SURFACE WATERS EXIST ON THIS SITE.  
4. USACE WETLANDS PERMIT SAW-2016-00652 EXPIRES ON 8/8/2021. NO WETLANDS WILL BE DISTURBED.

**NOTES:**

- ALL DISTURBED AREAS SHALL BE SEEDDED IN ACCORDANCE WITH THE LANDSCAPE PLAN
- TOTAL SITE ACREAGE: 3.55 ACRES DISTURBED AREA: 1.65 ACRES
- ACCORDING TO SOIL SURVEY OF NEW HANOVER COUNTY, NORTH CAROLINA THE SITE CONSISTS OF: (SEE C704 FOR SOILS MAP.)
- ALL STORMWATER INFRASTRUCTURES ON THIS SITE ARE PRIVATELY OWNED, AND ANY MAINTENANCE OR REPLACEMENT IS THE OWNER'S RESPONSIBILITY.
- ACCORDING TO FEMA FLOOD INSURANCE RATE MAP COMMUNITY NO. 3720315700K DATED 8-28-18 THIS PROPERTY IS LOCATED WITHIN ZONE X (NOT A SPECIAL FLOOD HAZARD AREA).

**PAVING, GRADING, AND DRAINAGE NOTES:**

- ALL STORM STRUCTURES SHALL BE STANDARD NCDOT TRAFFIC RATED STRUCTURES AND LIDS
- GRADE ALL PAVING TO DRAIN TO INLETS WITH A MINIMUM FINAL INSTALLED SLOPE OF 1.0% MINIMUM

**24 HOUR CONTACT:**  
**ED UMSTEAD**  
706-840-4988

**CITY OF WILMINGTON**  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN

APPROVED CONSTRUCTION PLAN

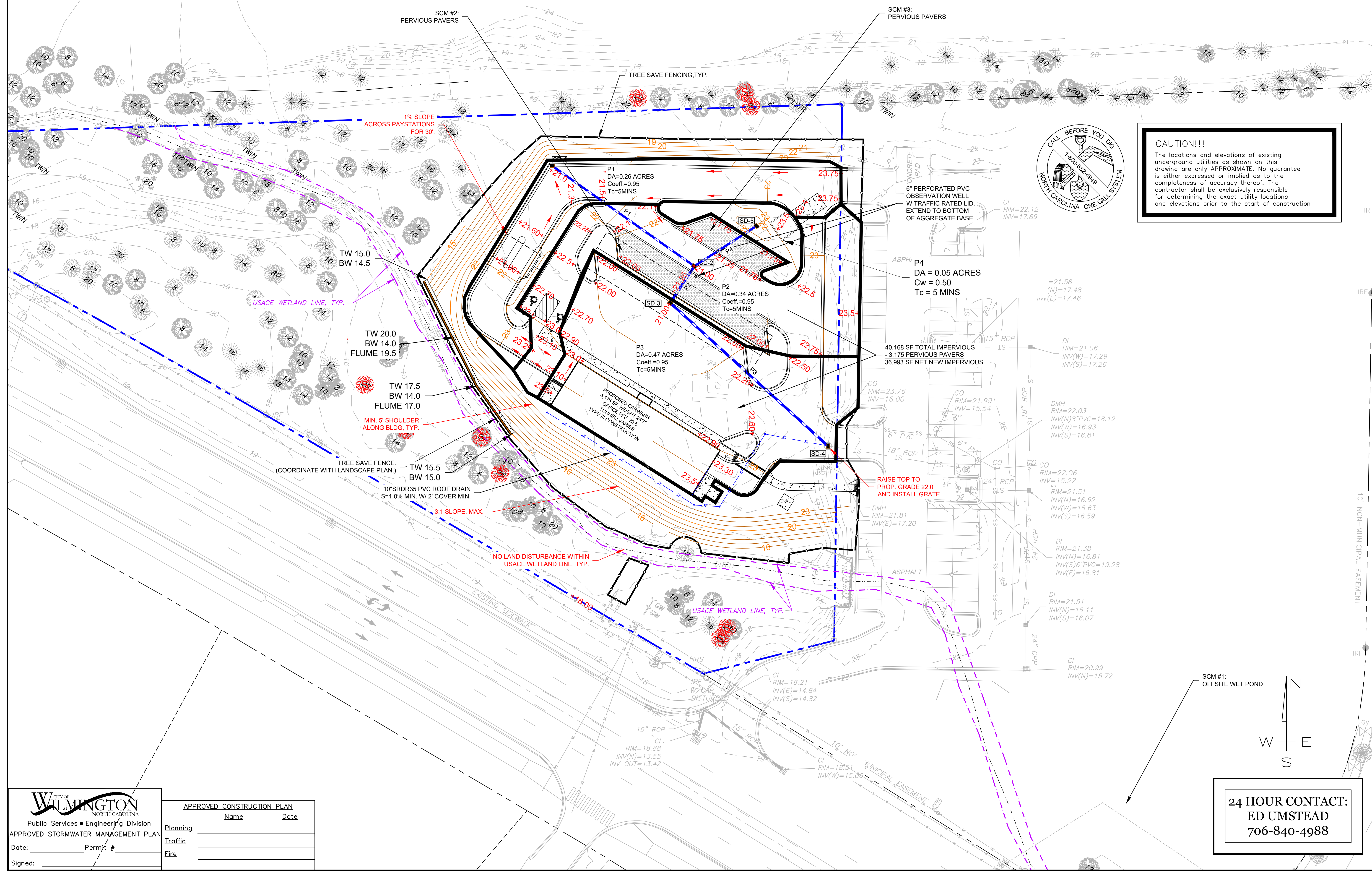
Name	Date
Planning _____	_____
Traffic _____	_____
Fire _____	_____

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_



**STORM DRAINAGE SCHEDULE**  
(100-YR STORM EVENT)

Line	To Line	Line Length (ft)	Incr. Area (ac)	Total Area (ac)	Runoff Coeff. (C)	Incr. C x A	Total C x A	Inlet Time (min)	Time Conc. (min)	Rnfall Int. (in/hr)	Total Runoff (cfs)	Adnl Flow (cfs)	Total Flow (cfs)	Capac Full (cfs)	Veloc (ft/s)	Pipe Size (in)	Pipe Slope (%)	Inv Elev Dn (ft)	Inv Elev Up (ft)	HGL Dn (ft)	HGL Up (ft)	Gnd/Rim Dn (ft)	Gnd/Rim Up (ft)	Line ID
1	Outfall	146,000	0.47	1.12	0.95	0.45	1.04	5.0	9.6	8.2	8.53	0.00	8.53	5.95	5.23	18	0.27	17.20	17.60	18.40	19.37	22.00	21.00	P3
2	1	30,072	0.34	0.65	0.95	0.32	0.60	5.0	9.4	8.2	4.90	0.00	4.90	6.56	2.77	18	0.33	17.60	17.70	19.91	19.97	21.00	21.00	P2
3	2	119,238	0.26	0.26	0.95	0.25	0.25	5.0	5.0	9.5	2.35	0.00	2.35	3.51	1.91	15	0.25	17.70	18.00	20.15	20.28	21.00	21.00	P1
4	2	51,414	0.05	0.05	0.50	0.03	0.03	5.0	5.0	9.5	0.24	0.00	0.24	4.36	0.19	15	0.39	17.80	18.00	20.15	20.15	21.00	21.00	P4



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**ONSITE CIVIL GROUP**  
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980 BIRMINGHAM RD, SUITE 500-540, MILTON, GA 30004  
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approved construction plan dated april 14, 2021 project # 20200051 stormwater permit # 2021004

**REVISIONS**

No.	DATE	DESCRIPTION

HORIZONTAL SCALE: 1"=30'

**CLIENT:**  
SND MAYFAIRE, LLC  
943 BALDWIN PARK DR  
WILMINGTON, NC 28411  
**CONTACT: STEPHEN UMSTEAD**  
910-262-2831  
STEPHEN@SPASHNDASHONLINE.COM

**SPLASH N DASH MAYFAIRE**  
1445 EASTWOOD RD  
CITY OF WILMINGTON,  
NEW HANOVER COUNTY  
NORTH CAROLINA

**STORM DRAINAGE PLAN**

DATE: MARCH 24, 2021  
PROJECT: 19-050  
SHEET: **C 503**

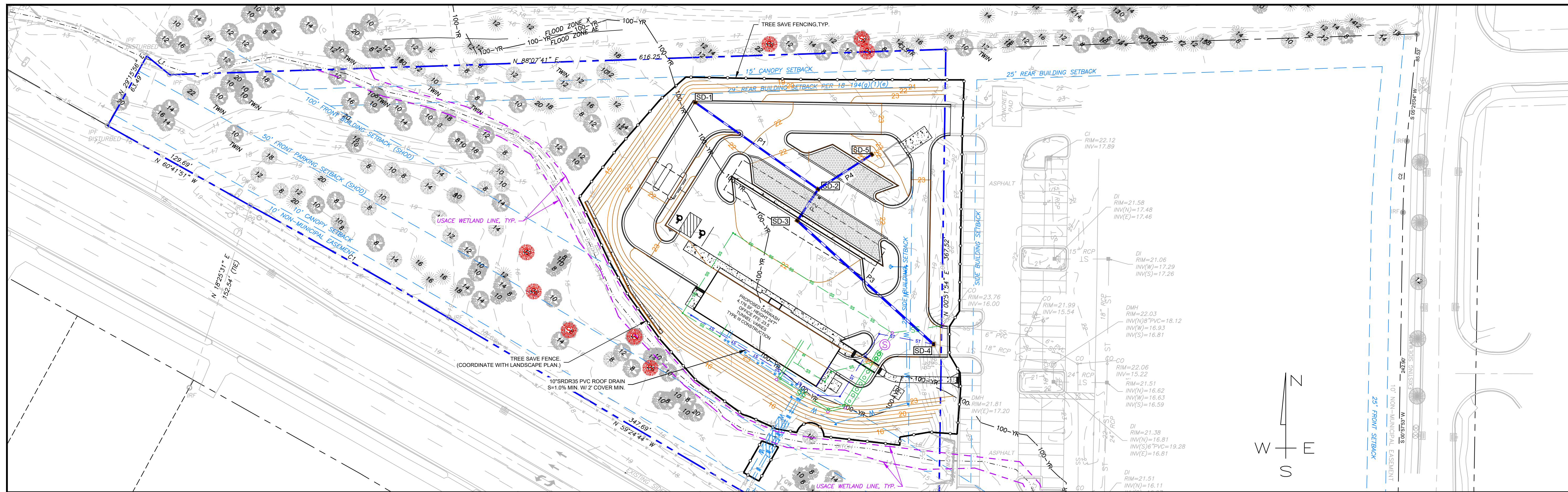
**CITY OF WILMINGTON**  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN

APPROVED CONSTRUCTION PLAN

Name	Date
Planning	
Traffic	
Fire	

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

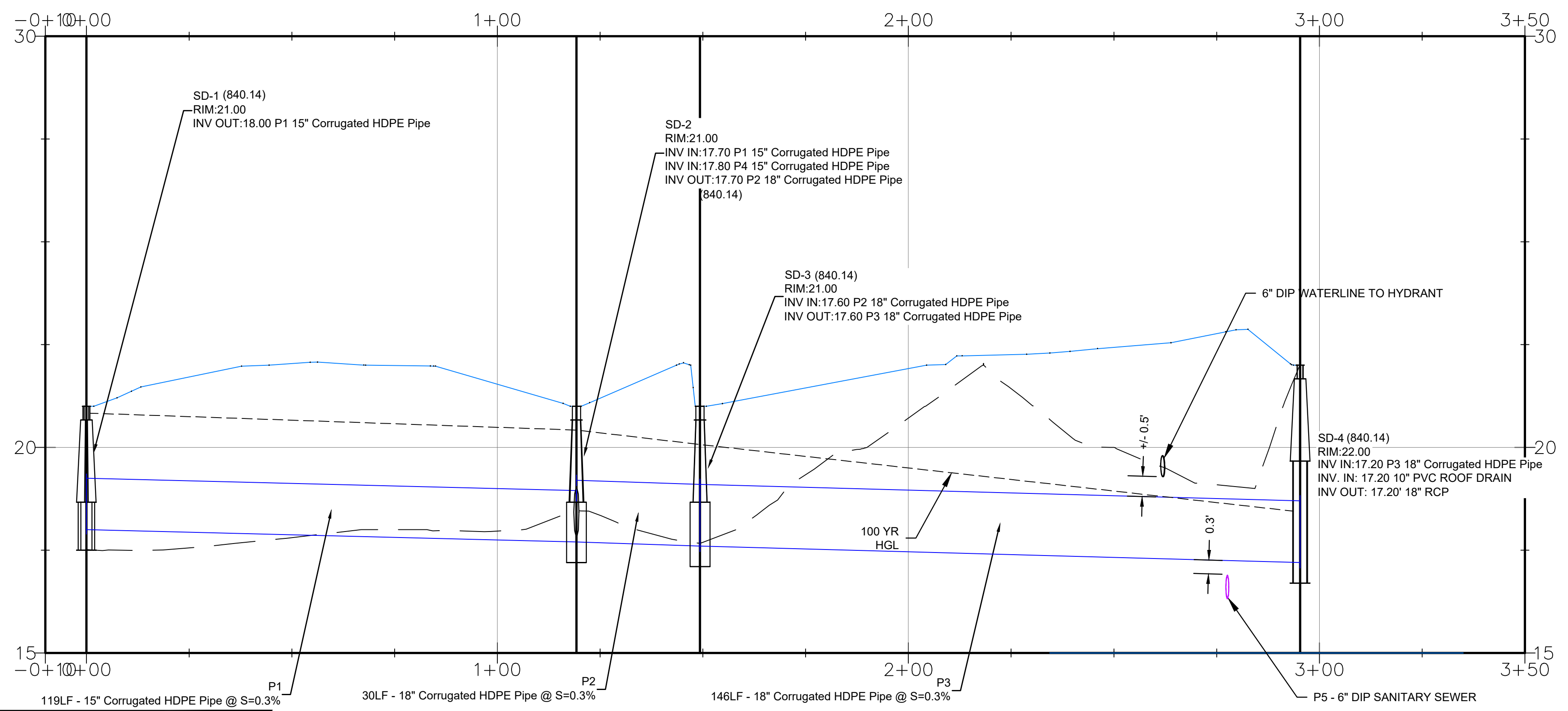
**24 HOUR CONTACT:**  
**ED UMSTEAD**  
706-840-4988



PLAN VIEW  
HORIZONTAL SCALE: 1"=40'

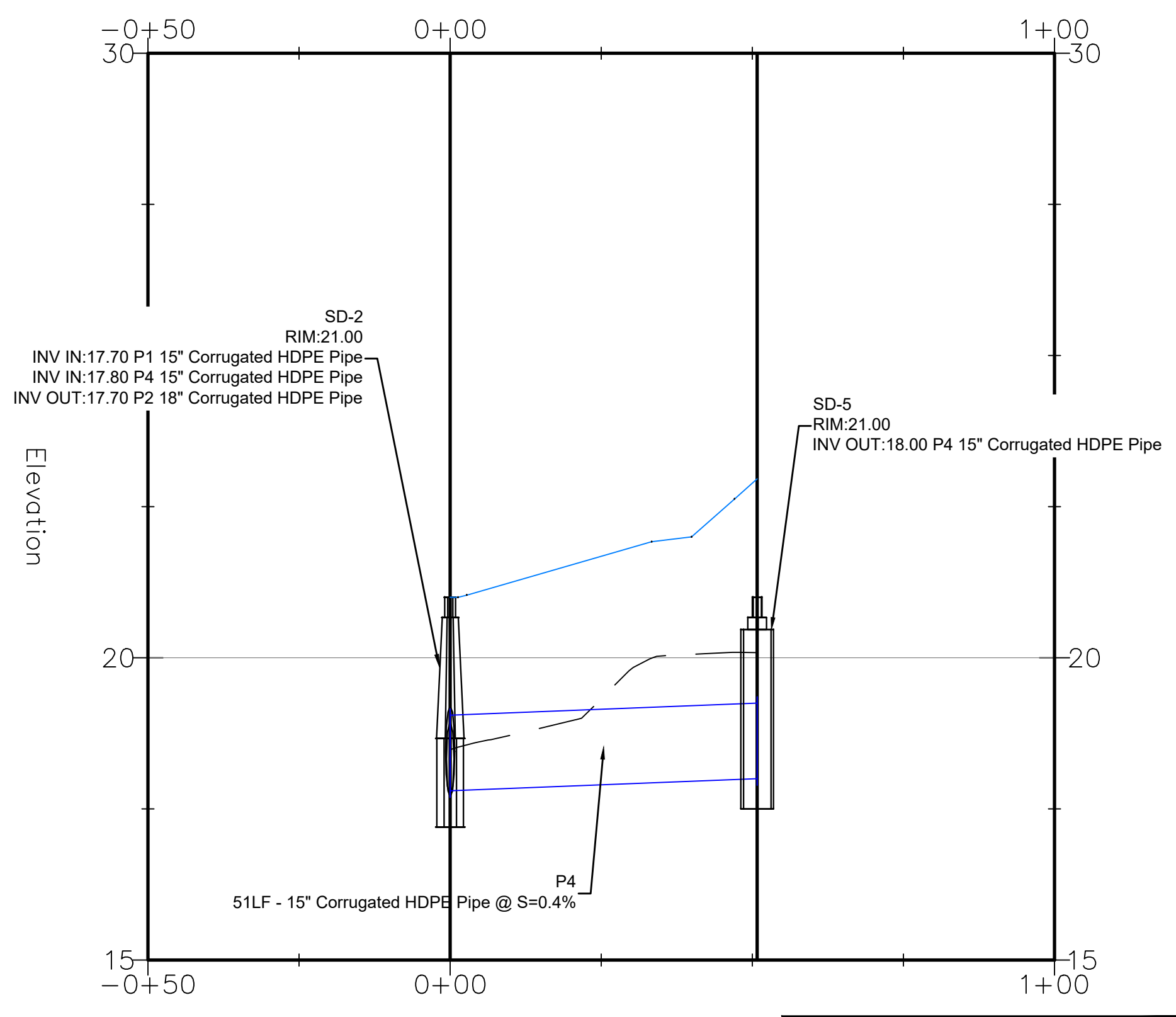
\*\*NOTE:  
1. ALL PIPE LENGTHS ARE CENTER-CENTER OF STRUCTURES  
2. ALL GRATE INLETS ELEVATIONS ARE TO THROAT OF INLET AT GUTTER, NOT TOP OF CURB. INLETS ON CURBS ARE TO HAVE HOODED GRATES

SD1-SD4 PROFILE



PROFILE VIEW  
HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=2'

SD-4 - SD-5 PROFILE

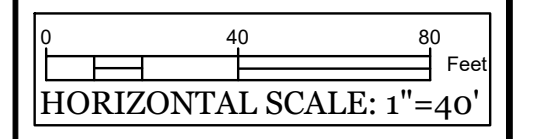


**ONSITE CIVIL GROUP**  
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APPROVED CONSTRUCTION PLAN  
DATED APRIL 14, 2021  
PROJECT #2020051  
STORMWATER PERMIT # 2021004

REVISIONS		
No.	DATE	DESCRIPTION



CLIENT:  
SND MAYFAIRE, LLC  
943 BALDWIN PARK DR  
WILMINGTON, NC 28411  
CONTACT: STEPHEN UMSTEAD  
910-262-2831  
STEPHEN@SPASHNDASHONLINE.COM

SPLASH N DASH MAYFAIRE  
1445 EASTWOOD RD  
CITY OF WILMINGTON,  
NEW HANOVER COUNTY  
NORTH CAROLINA

STORM PLAN & PROFILES

24 HOUR CONTACT:  
ED UMSTEAD  
706-840-4988

DATE: MARCH 24, 2021  
PROJECT: 19-050

SHEET: C 504

**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN  
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

APPROVED CONSTRUCTION PLAN		
Name	Date	
Planning	_____	_____
Traffic	_____	_____
Fire	_____	_____

**UTILITY NOTES:**

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES AND THEIR ELEVATIONS PRIOR TO STARTING CONSTRUCTION.
2. THE CONTRACTOR SHALL CONTACT PUBLIC UTILITIES INSPECTIONS AT LEAST 24 HOURS IN ADVANCE PRIOR TO ANY ACTIVITY.
3. CONTRACTOR TO COORDINATE TYPE AND INSTALLATION OF DOMESTIC AND IRRIGATION WATER METERS, BACKFLOW PREVENTORS, AND DETECTOR CHECK VALVES WITH UTILITY COMPANY.
4. ONSITE CIVIL GROUP WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, OR PROCEDURES UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR CONTRACTOR'S EMPLOYEES OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
5. ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH LOCAL GOVERNING CODES.
6. A MINIMUM OF 10' HORIZONTAL SEPARATION AND 1.5' VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN SEWER LINES AND WATER LINES AT ALL TIMES. SEE SPECIFICATIONS FOR MORE DETAIL.
7. CONTRACTOR SHALL MAINTAIN AN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
8. UNDERGROUND FIRE LINE AND PRIVATE WATER MAINS MUST BE PERMITTED AND INSPECTED BY THE COUNTY FIRE DEPARTMENT FROM THE RIGHT-OF-WAY TO THE BUILDING. CONTACT THE COUNTY FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-343-0696 FOR ADDITIONAL INFORMATION.

**WILMINGTON UTILITY/FIRE NOTES:**

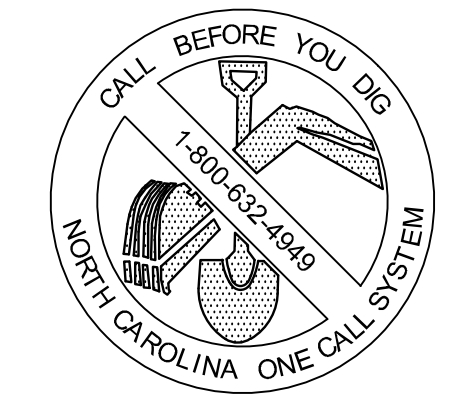
1. UNDERGROUND FIRE LINE AND PRIVATE WATER MAINS MUST BE PERMITTED AND INSPECTED BY WILMINGTON FIRE DEPT. FROM THE PUBLIC RIGHT OF WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-343-0696 FOR ADDITIONAL INFORMATION.
2. A MINIMUM OF 5' SHALL SEPARATE UNDERGROUND FIRE LINES OR PRIVATE WATER MAINS FROM UNDERGROUND UTILITIES.

**UTILITY CAPACITY NOTES:**

1. CURRENT WATER USAGE: 0 GPD (EX. 1.5" METER)
2. PROPOSED WATER NEED: 2580 GPD
3. CURRENT SEWAGE USAGE: 0 GPD
4. PROPOSED SEWAGE NEED: 1840 GPD

**TRAFFIC ENGINEERING NOTE:**  
CALL TRAFFIC ENGINEERING AT 919-341-7888 A MIN. OF 48 HOURS PRIOR TO ANY EXCAVATION IN THE RW

**ONSITE CIVIL GROUP**  
980 BIRMINGHAM ROAD, SUITE 501-340  
MILTON, GEORGIA 30004  
CONTACT: JARRETT SENKBEIL, PE, LEED AP  
404-822-9147



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**CITY OF WILMINGTON GENERAL NOTES:**

1. PRIOR TO ANY CLEARING, GRADING OR ANY CONSTRUCTION ACTIVITY, TREE PROTECTION FENCE WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCE.
2. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
3. ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING TO REQUEST INSTALLATION OF STREET NAME SIGNS.
4. TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
5. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN. ADD A NOTE TO CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
6. ANY MISSING OR BROKEN SIDEWALK PANELS, DRIVEWAY PANELS, OR CURB PANELS WILL BE REPLACED.
7. CONTACT KAREN DIXON AT 910 341- 7888 TO DISCUSS STREET LIGHTING OPTIONS.
8. PROJECT WILL COMPLY WITH CITY OF WILMINGTON CROSS CONNECTION CONTROL REQUIREMENTS.
9. IF THE CONTRACTOR DESIRES CITY WATER FOR CONSTRUCTION HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVISE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
10. ANY IRRIGATION SYSTEM SUPPLIED BY CITY WATER SHALL COMPLY WITH THE CITY'S CROSS CONNECTION CONTROL REGULATIONS. CALL 343-3910 FOR INFORMATION.
11. ANY BACKFLOW DEVICES REQUIRED BY THE CITY WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCFCCHR OR ASSE.

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WWW.ONSITECIVIL.COM INFO@ONSITECIVIL.COM

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approved construction plan dated april 14, 2021  
project # 2020051  
stormwater permit # 2021004

**REVISIONS**

No.	DATE	DESCRIPTION

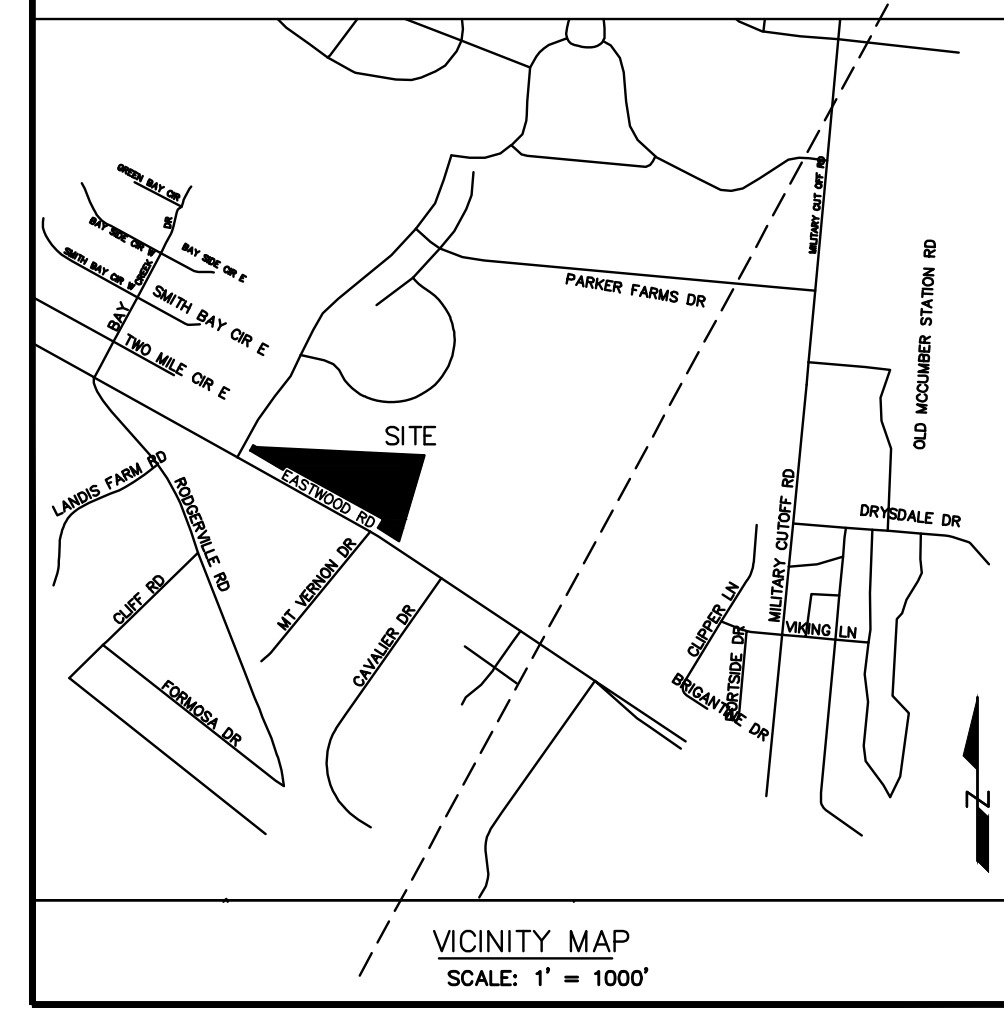
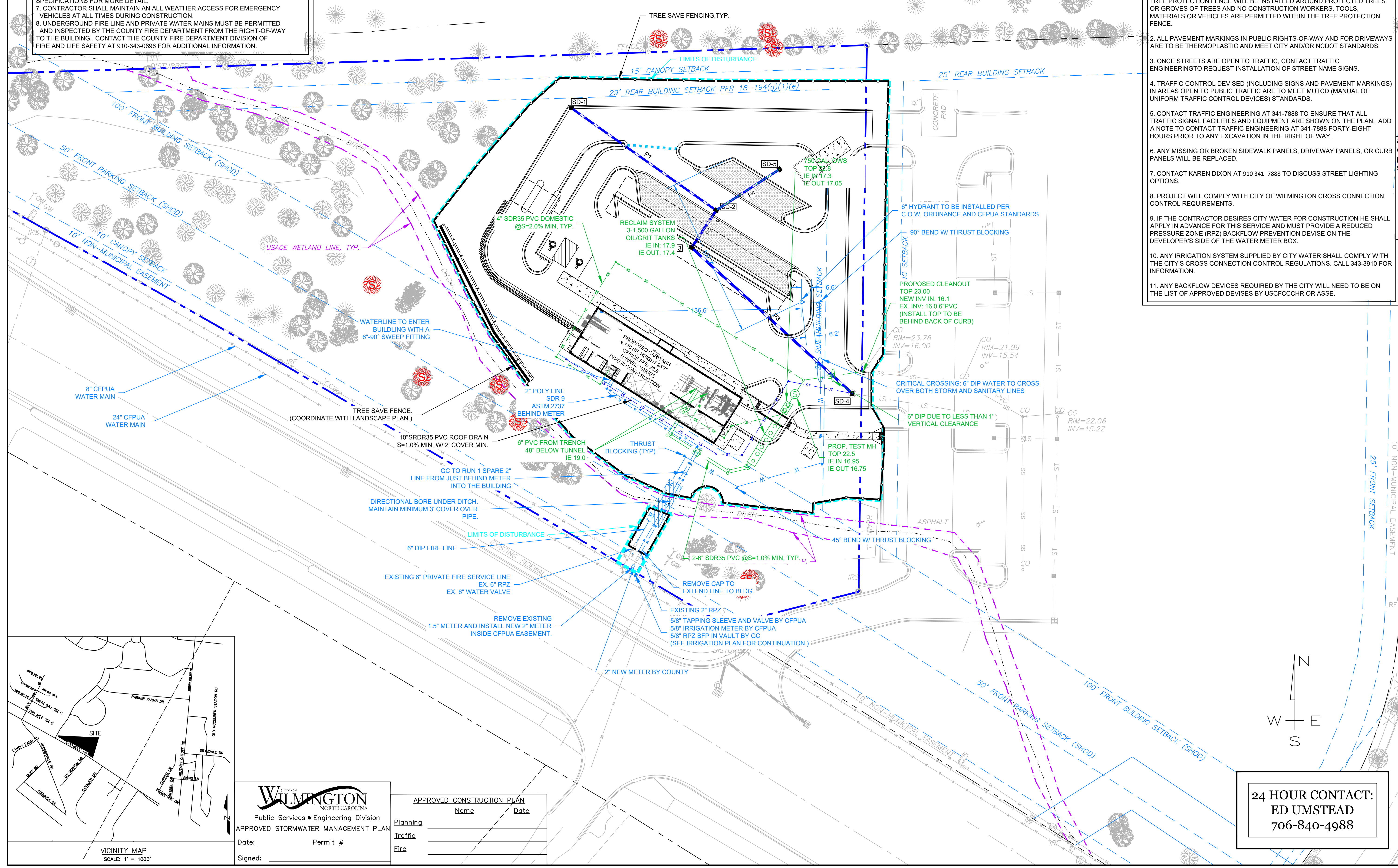
HORIZONTAL SCALE: 1" = 30'

**CLIENT:**  
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943 BALDWIN PARK DR  
WILMINGTON, NC 28411  
CONTACT: STEPHEN UMSTEAD  
910-262-2831  
STEPHEN@SPLASHNDASHONLINE.COM

**SPLASH N DASH MAYFAIRE**  
1445 EASTWOOD RD  
CITY OF WILMINGTON,  
NEW HANOVER COUNTY  
NORTH CAROLINA

**UTILITY PLAN**

DATE: MARCH 24, 2021  
PROJECT: 19-050  
SHEET: C 601



**CITY OF WILMINGTON**  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN

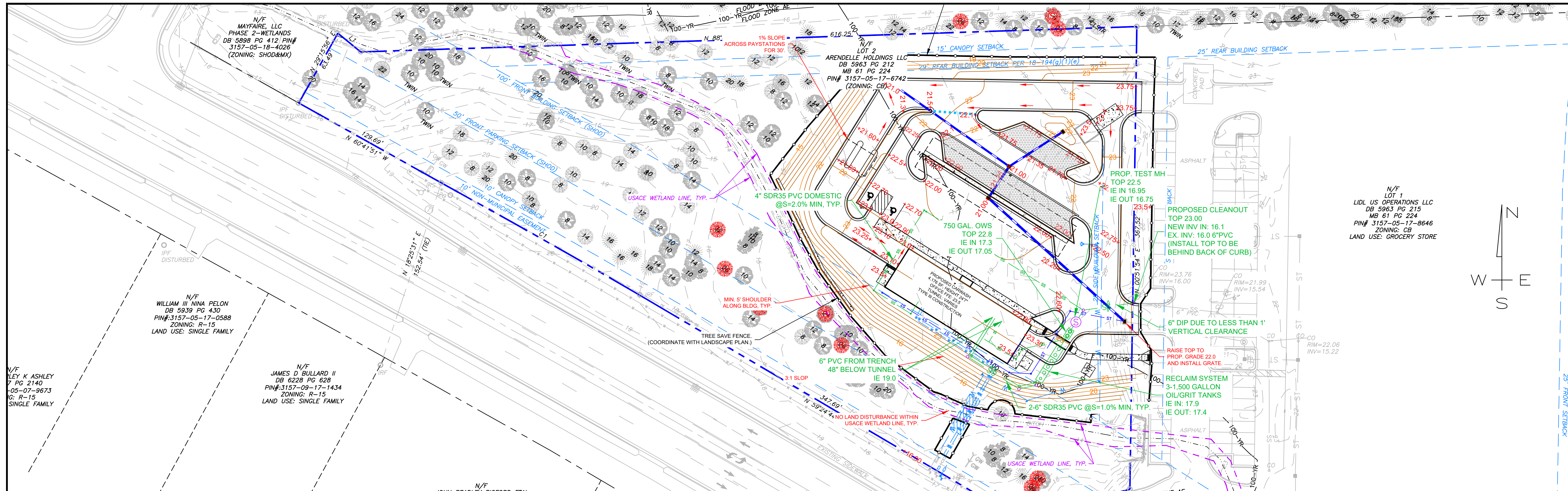
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

**APPROVED CONSTRUCTION PLAN**

Name	Date
Planning	_____
Traffic	_____
Fire	_____

**24 HOUR CONTACT:**  
ED UMSTEAD  
706-840-4988





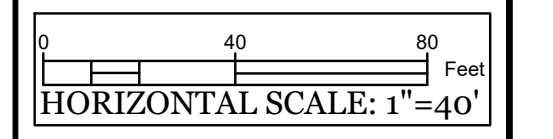
PLAN VIEW  
HORIZONTAL SCALE: 1"=40'

**ONSITE CIVIL GROUP**  
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980 BIRMINGHAM RD, SUITE 500-540, MILTON, GA 30004  
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approved construction plan dated april 14, 2021 project # 2020051 stormwater permit # 2021004

REVISIONS		
No.	DATE	DESCRIPTION



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943 BALDWIN PARK DR  
WILMINGTON, NC 28411  
CONTACT: STEPHEN UMSTEAD  
910-262-2831  
STEPHEN@SPASHNDASHONLINE.COM

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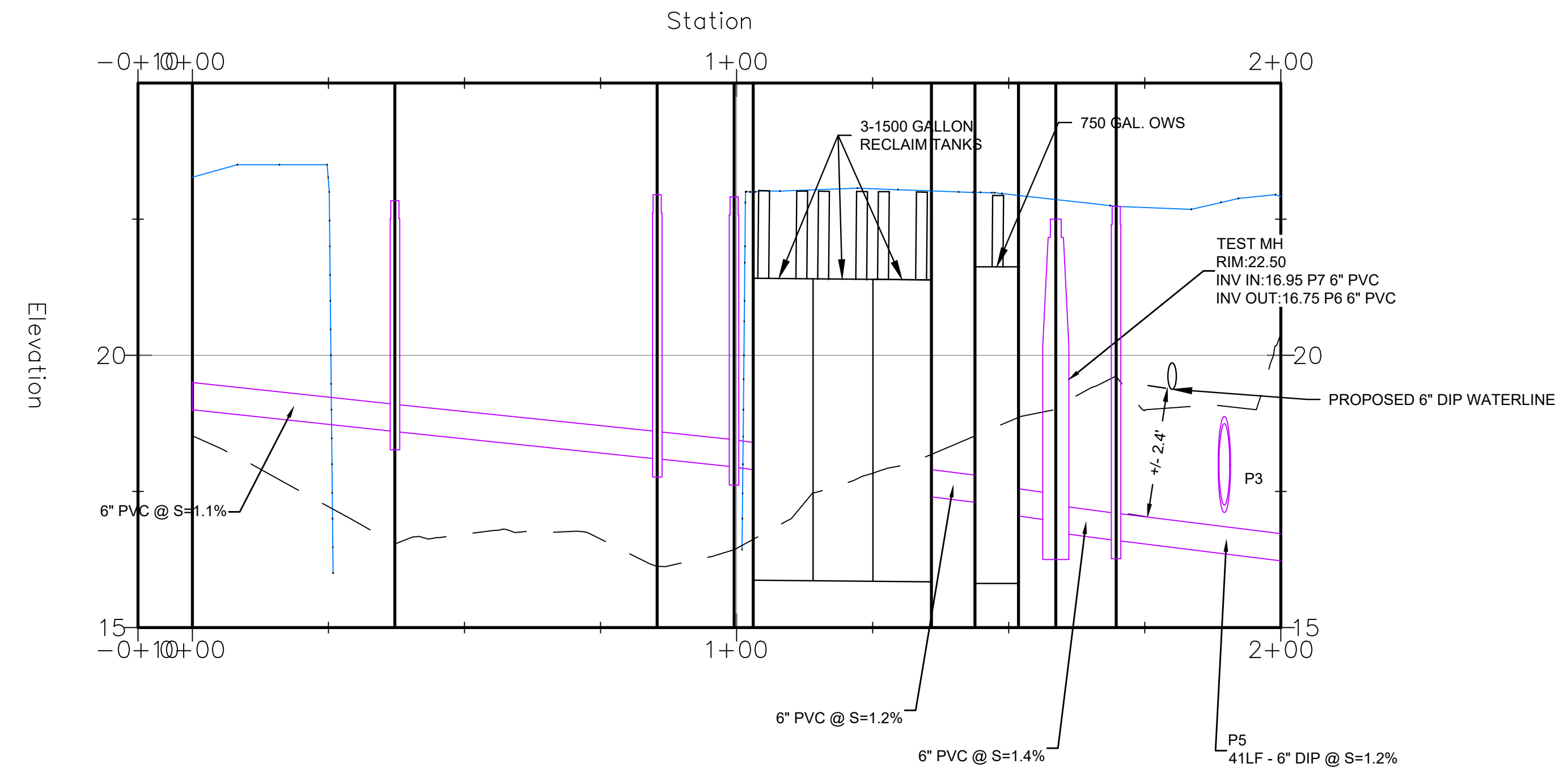
UTILITY PLAN & PROFILES

DATE: MARCH 24, 2021  
PROJECT: 19-050

SHEET: C 602

Fresh Water Consumption		Reclaim Water Consumption	
FUNCTION	GAL PER CAR	FUNCTION	GAL PER CAR
Pre Soak #1	2	First Mitter	4
Scent Arch	1	Wraps	12
Pre Soak #2	1.5	High Pressure Side	22
Foamer 2nd	1.5	Omni Top	11
Foamer 3rd	1.5	Spinner 1	10
1st CTA	0.5	Spinner 2	10
2nd CTA	0.5	Underbody Spray #1	4.8
Back Applicator	1	Top Brush	4
Pre rinse	4		
Clear Coat	2		
Drying Agent	2		
Spot Free	7.5		
Tricolor Conditioner	3		
Prep Gun (4.5)	5.5		
Triple Polish	3		
Double Bond	2		
Rain Repellent	2		
<b>Total</b>	<b>40.5</b>	<b>Total</b>	<b>77.8</b>
<b>Total Fresh Water Consumption W/O Reclaim</b>	<b>118.3</b>	<b>Total</b>	<b>62.85</b>
<b>Total Fresh Water used per car</b>	<b>17.25</b>		
<b>Projected Cars per month</b>	<b>4500</b>		
<b>Total Fresh Water Used per car per month</b>	<b>77625</b>		
<b>5 gal loss per car due to Evaporation and drive off</b>	<b>22500</b>		
<b>Total Water Sent to Sewer</b>	<b>55125</b>		

SANITARY SEWER PROFILE



PROFILE VIEW  
HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=2'

24 HOUR CONTACT:  
ED UMSTEAD  
706-840-4988

**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN

APPROVED CONSTRUCTION PLAN	
Name	Date
Planning	_____
Traffic	_____
Fire	_____

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

**EROSION CONTROL NOTES:**

- ON-SITE BURIAL PITS REQUIRE AN ON-SITE DEMOLITION LANDFILL PERMIT FROM THE ZONING ADMINISTRATOR.
- ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
- GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
- ALL SLOPES AND PERIMETER AREAS MUST BE SEEDED OR MULCHED WITHIN 7 CALENDAR DAYS, 14 DAYS FOR ALL OTHER AREAS. REFER TO EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS.
- ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE COUNTY ENGINEERING DEPT.
- SLOPES SHALL BE GRADED NO STEEPER THAN 2:1.
- A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
- DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES IN NCDOT RIGHT OF WAY MUST BE PRESENTED AT PRE CONSTRUCTION MEETING.
- SELF INSPECTION AND DOCUMENTATION OF EROSION AND SEDIMENT CONTROL MEASURES IS REQUIRED ONCE PER WEEK AND AFTER EVERY 12" RAINFALL EVENT AS MEASURED BY AN ON-SITE RAIN GAUGE.

**EROSION CONTROL CALCULATIONS:**  
 STORAGE REQUIRED: 1,800 CF/ACRE DISTURBED \* 1.65 DISTURBED ACRES = 2,970 CF  
 STORAGE PROVIDED: 3,671 CF @ 18.0 > 2,970 CF REQ'D.  
 3,671 CF PROVIDED @ 16.0, TOP OF DAM 17.0=1.0' FREEBOARD.  
 SURFACE AREA REQ'D: 325 SF /CFS @ Q10. Q10=CIA= 7 in/hr \* 1.65 acres \* 0.75 \* 325SF = 2,815 SF.  
 3,671 SF PROVIDED @ 16.0 > 2,815 SF REQUIRED.

**DIVERSION #1/#2 CALCULATIONS:**  
 MAXIMUM DRAINAGE AREA TO DIVERSION: 0.86 ACRES  
 MAXIMUM Q10=CIA= 7 in/hr \* 0.86 acres \* 0.50 = 3.01 CFS.  
 SLOPE OF DIVERSION DITCH (MAX SHOWN) = 2.75%  
 MINIMUM DITCH WIDTH= 3' AT BOTTOM W/ 3:1 SIDE SLOPES  
 V10=4.44 FPS IN MOST STEEP PLACE  
 SEE CALCULATIONS ON C806

**NARRATIVE:**  
 THE PROPOSED DEVELOPMENT CONSISTS OF A NEW CARWASH BUILDING, VACUUM PARKING, DRIVE AISLES AND ASSOCIATED UTILITIES. STORMWATER DETENTION WILL BE MANAGED OFFSITE. EROSION CONTROL WILL BE MAINTAINED ONSITE BY THE CONTRACTOR AND EROSION CONTROL PHASING WILL BE DONE AS SHOWN ON THE PHASING SHEETS.

**SEDIMENT BASIN STAGE/STORAGE (ELEVATION-CONTOUR AREA)**  
 14.50 OUTLET  
 15 - 1,295 SF (647 CF)  
 16 - 5,184 SF (3,671 CF)  
 17 - 11,470 SF (11,792 CF)

**NOTES:**

- ALL DISTURBED AREAS SHALL BE SEEDED IN ACCORDANCE WITH THE LANDSCAPE PLAN
- TOTAL SITE ACREAGE: 3.55 ACRES DISTURBED AREA: 1.65 ACRES
- ACCORDING TO SOIL SURVEY OF NEW HAVOVER COUNTY, NORTH CAROLINA THE SITE CONSISTS OF: (SEE C704 FOR SOILS MAP.)
- ALL STORMWATER INFRASTRUCTURES ON THIS SITE ARE PRIVATELY OWNED, AND ANY MAINTENANCE OR REPLACEMENT IS THE OWNER'S RESPONSIBILITY.
- ACCORDING TO FEMA FLOOD INSURANCE RATE MAP COMMUNITY NO. 3720315700K DATED 8-28-18 THIS PROPERTY IS NOT LOCATED IN A FLOOD ZONE.

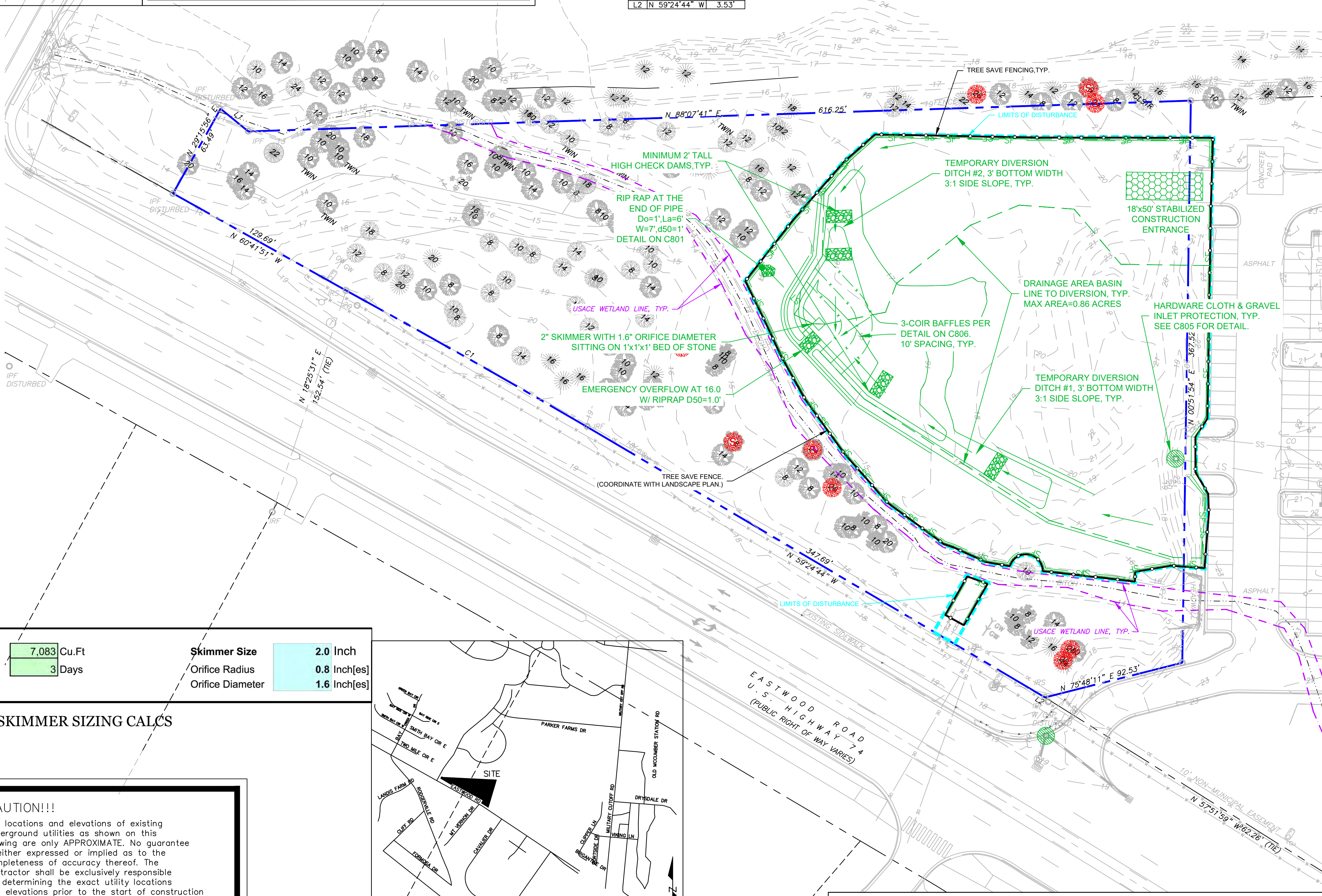
**CONSTRUCTION SEQUENCE NOTES:**

- OBTAIN GRADING/EROSION CONTROL PLAN APPROVAL FROM THE NEW HANOVER COUNTY ENGINEERING DEPARTMENT. OBTAIN STORMWATER AND OTHER PLAN APPROVALS FROM CITY OF WILMINGTON.
- SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH EROSION CONTROL INSPECTOR OF THE COUNTY ENGINEERING DEPARTMENT TO DISCUSS EROSION CONTROL MEASURES. ALSO SCHEDULE A PRECON WITH THE CITY ENGINEERING DEPARTMENT. FAILURE TO SCHEDULE SUCH CONFERENCE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS A VIOLATION OF CHAPTER 17 OF THE CITY CODE AND IS SUBJECT TO FINE.
- INSTALL SILT FENCE, INLET PROTECTION, SEDIMENT TRAPS, DIVERSION DITCHES, TREE PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
- CALL FOR ON-SITE INSPECTION BY INSPECTOR. WHEN APPROVED, INSPECTOR ISSUES GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
- FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL INSPECTOR PRIOR TO COMMENCING WITH EACH PHASE OF EROSION CONTROL MEASURES.
- STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE.
- COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURE.
- DETENTION WILL BE CLEANED OUT WHEN SITE WORK AND PAVING ARE COMPLETED AND A FINAL PERMANENT GROUND COVER IS ESTABLISHED.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, US DEPT OF AGRICULTURE, CITY OF WILMINGTON EROSION CONTROL ORDINANCE, AND THE WILMINGTON LAND DEVELOPMENT STANDARDS MANUAL.

CURVE	ARC	RADIUS	CHORD	BEARING	CHORD
C1	180.86'	113028.99'	N 60°29'19" W	180.86'	
C2	56.74'	730.00'	S 03°11'29" W	56.72'	

LINE	BEARING	DISTANCE
L1	S 50°40'04" E	23.40'
L2	N 59°24'44" W	3.53'



**BMP MAINTENANCE PLAN:**

- 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 HALF INCH RAINFALL.
- ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN 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 HARDWARE CLOTH AND GRAVEL INLET PROTECTION, BLOCK AND GRAVEL INLET PROTECTION, ROCK DOUGHNUT INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND BEAVER DAMS, DANDY SACKS, AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.
- DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION RIDGES WILL ALSO BE REPAIRED. SWALES MUST BE TEMPORARILY STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE.
- 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 WHEN IT BECOMES HALF FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED, OR IS DAMAGED. SEDIMENT WILL BE REMOVED FROM SEDIMENT TRAPS WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. THE ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR WHEN THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE.
- SEDIMENT WILL BE REMOVED FROM SEDIMENT BASIN WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR WHEN THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED 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, RESEEDED AS NECESSARY AND MULCHED ACCORDING TO 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 WITHIN 15 WORKING DAYS.
- FLOCCULANTS WILL BE USED TO ADDRESS TURBIDITY ISSUES. THE PUMPS, TANKS, HOSES, AND INJECTION SYSTEMS WILL BE CHECKED FOR PROBLEMS OR TURBID DISCHARGES DAILY.

**Calculate Skimmer Size**

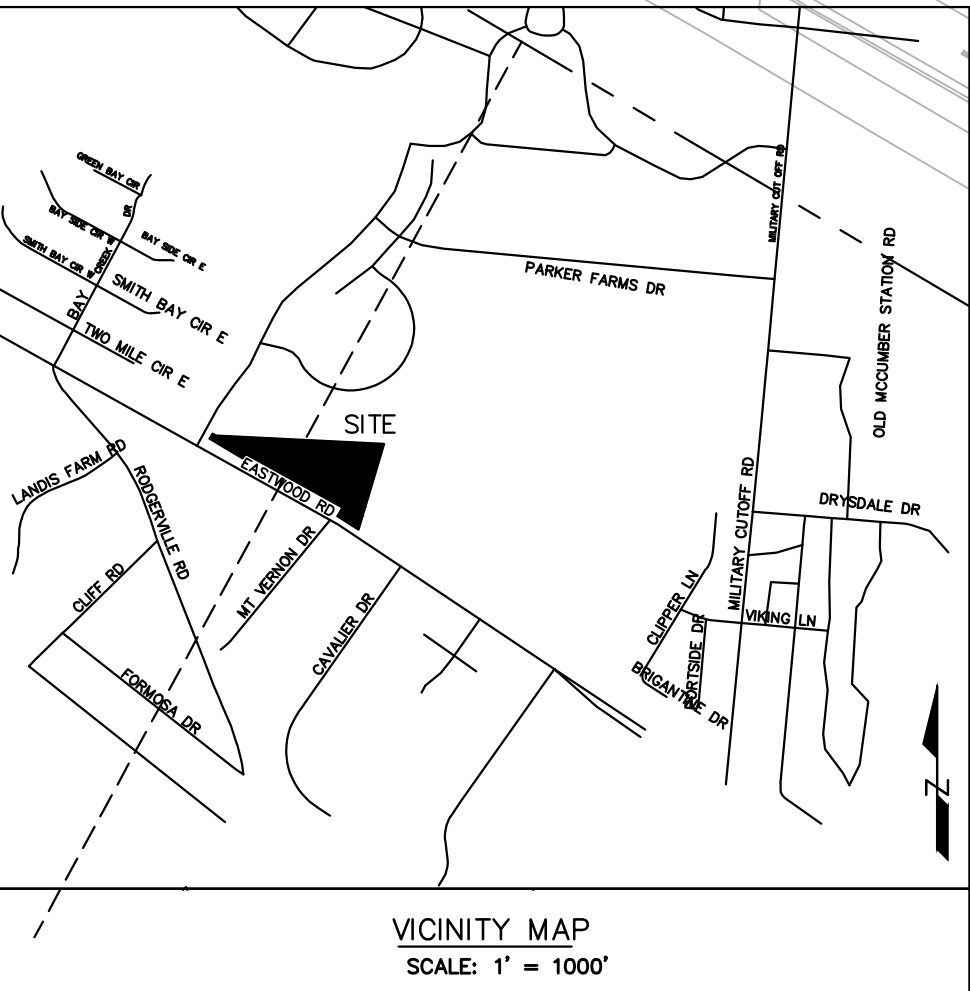
Basin Volume in Cubic Feet	7,083 Cu.Ft	Skimmer Size	2.0 Inch
Days to Drain*	3 Days	Orifice Radius	0.8 Inch[es]
		Orifice Diameter	1.6 Inch[es]

\*In NC assume 3 days to drain

**SKIMMER SIZING CALCS**



**CAUTION!!!**  
 The locations and elevations of existing underground utilities as shown on this drawing are only APPROXIMATE. No guarantee is either expressed or implied as to the completeness of accuracy thereof. The contractor shall be exclusively responsible for determining the exact utility locations and elevations prior to the start of construction



**CITY OF WILMINGTON EROSION CONTROL NOTES:**

- FINANCIALLY RESPONSIBLE PARTY: SND MAYFAIRE LLC 943 BALDWIN PARK DRIVE, WILMINGTON, NC 2840. DRIVE, MARTINEZ, GA 30907. CONTACT: ED UMSTEAD, EDUMSTEAD@COMCAST.NET. PHONE: 706-840-4988. FAX: 706-863-7935. NC AGENT IS STEPHEN UMSTEAD, 943 BALDWIN PARK DRIVE, WILMINGTON, NC 28405. 910-262-2831
- LATITUDE: 34°13'58", LONGITUDE: 77°50'09"

SITE AREA DESCRIPTION	NPDES STABILIZATION TIMEFRAMES	
	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HWQ) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' 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' IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES

**24 HOUR CONTACT:**  
**ED UMSTEAD**  
 706-840-4988

**ONSITE CIVIL GROUP**  
 ON-SITE CIVIL GROUP OF THE CAROLINAS, PLLC  
 NICHOLS FIRM P-2605  
 980 BIRMINGHAM RD, SUITE 500-3400, MILITON, GA 30004  
 PHONE: 770-965-3535  
 WWW.ONSITECIVIL.COM INFO@ONSITECIVIL.COM

THESE DRAWINGS ARE THE PROPERTY OF ONSITE CIVIL GROUP, LLC AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF ONSITE CIVIL GROUP, LLC.

approved construction plan dated april 14, 2021  
 project # 2020051  
 stormwater permit # 2021004

**REVISIONS**

No.	DATE	DESCRIPTION

HORIZONTAL SCALE: 1" = 40'

**CLIENT:**  
 SND MAYFAIRE, LLC  
 943 BALDWIN PARK DR  
 WILMINGTON, NC 28411  
**CONTACT: STEPHEN UMSTEAD**  
 910-262-2831  
 STEPHEN@SPASHNDASHONLINE.COM

**SPLASH N DASH MAYFAIRE**  
 1445 EASTWOOD RD  
 CITY OF WILMINGTON,  
 NEW HANOVER COUNTY  
 NORTH CAROLINA

**EROSION CONTROL PLAN - PHASE I**

DATE: MARCH 24, 2021  
 PROJECT: 19-050

SHEET: **C 701**

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

**APPROVED CONSTRUCTION PLAN**

Name	Date
Planning	_____
Traffic	_____
Fire	_____

**EROSION CONTROL NOTES:**

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3. GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
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8. DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES IN NCDOT RIGHT OF WAY MUST BE PRESENTED AT PRE CONSTRUCTION MEETING.
9. SELF INSPECTION AND DOCUMENTATION OF EROSION AND SEDIMENT CONTROL MEASURES IS REQUIRED ONCE PER WEEK AND AFTER EVERY 1/2" RAINFALL EVENT AS MEASURED BY AN ON-SITE RAIN GAUGE.

**EROSION CONTROL CALCULATIONS:**  
 STORAGE REQUIRED: 1,800 CF/ACRE DISTURBED \* 1.65 DISTURBED ACRES = 2,610 CF  
 STORAGE PROVIDED: 7,083 CF > 2,610 CF REQ'D.  
 7,083 CF PROVIDED @ 16.5' TOP OF DAM 17.5-1.0' FREEBOARD.  
 SURFACE AREA REQ'D: 325 SF /CFS @ Q10. Q10=CIA= 7 in/hr \* 1.52 acres \* 0.75 \* 325SF = 2,594 SF.  
 8,283 SF PROVIDED @ 16.5>2,594 SF REQUIRED.

**SEDIMENT BASIN STAGE/STORAGE (ELEVATION-CONTOUR AREA)**  
 15 - 1,295 SF (0 CF)  
 16 - 5,184 SF (3,023 CF)  
 17 - 11,470 SF (11,144 CF)

**NOTES:**

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4. ALL STORMWATER INFRASTRUCTURES ON THIS SITE ARE PRIVATELY OWNED, AND ANY MAINTENANCE OR REPLACEMENT IS THE OWNER'S RESPONSIBILITY.
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**CONSTRUCTION SEQUENCE NOTES:**

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**ON SITE CIVIL GROUP**  
 ON-SITE CIVIL GROUP OF THE CAROLINAS, PLLC  
 NCBELS FIRM P-2605  
 980 BIRMINGHAM RD, SUITE 500-540, MILITON, GA 30004  
 PHONE: 678-485-3333  
 WWW.ONSITECIVIL.COM INFO@ONSITECIVIL.COM

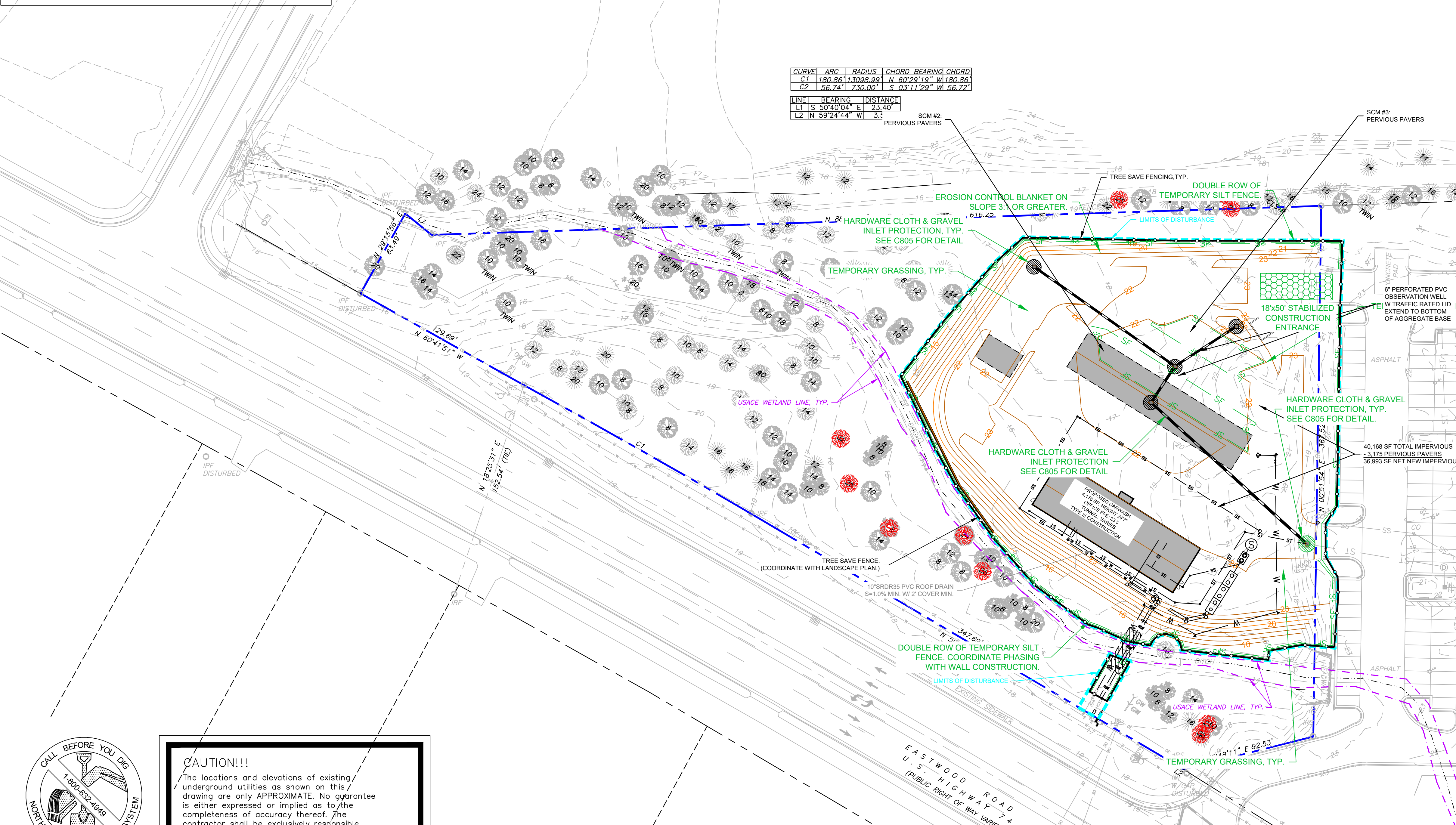
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approved construction plan dated april 14, 2021 project # 2020051 stormwater permit # 2021004

CURVE	ARC	RADIUS	CHORD BEARING	CHORD
C1	180.86'	11,309.92'	N 60°29'19" W	180.86'
C2	56.74'	730.00'	S 03°11'29" W	56.72'

LINE	BEARING	DISTANCE
L1	S 50°40'04" E	23.40'
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**BMP MAINTENANCE PLAN:**

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**REVISIONS**

No.	DATE	DESCRIPTION

HORIZONTAL SCALE: 1" = 40'

**CLIENT:**  
 SND MAYFAIRE, LLC  
 943 BALDWIN PARK DR  
 WILMINGTON, NC 28411  
**CONTACT: STEPHEN UMSTEAD**  
 910-262-2831  
 STEPHEN@SLASHNDASHONLINE.COM

**SPLASH N DASH MAYFAIRE**  
 1445 EASTWOOD RD  
 CITY OF WILMINGTON,  
 NEW HANOVER COUNTY  
 NORTH CAROLINA

**EROSION CONTROL PLAN - PHASE II**

DATE: MARCH 24, 2021  
 PROJECT: 19-050

SHEET: **C 702**

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 THE PROPOSED DEVELOPMENT CONSISTS OF A NEW CARWASH BUILDING, VACUUM PARKING, DRIVE AISLES AND ASSOCIATED UTILITIES. STORMWATER DETENTION WILL BE MANAGED OFFSITE. EROSION CONTROL WILL BE MAINTAINED ONSITE BY THE CONTRACTOR AND EROSION CONTROL PHASING WILL BE DONE AS SHOWN ON THE PHASING SHEETS.

**CITY OF WILMINGTON EROSION CONTROL NOTES:**

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2. LATITUDE: 34°13'58", LONGITUDE: 77°50'09"

**NPDES STABILIZATION TIMEFRAMES**

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HWQ) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' 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' IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HWQ ZONES

**24 HOUR CONTACT:**  
 ED UMSTEAD  
 706-840-4988

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN

**APPROVED CONSTRUCTION PLAN**

Name	Date
Planning	
Traffic	
Fire	

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

**EROSION CONTROL NOTES:**

1. ON-SITE BURIAL PITS REQUIRE AN ON-SITE DEMOLITION LANDFILL PERMIT FROM THE ZONING ADMINISTRATOR.
2. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
3. GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
4. ALL SLOPES AND PERIMETER AREAS MUST BE SEEDED OR MULCHED WITHIN 7 CALENDAR DAYS, 14 DAYS FOR ALL OTHER AREAS. REFER TO EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS.
5. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE COUNTY ENGINEERING DEPT.
6. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1.
7. A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
8. DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES IN NCDOT RIGHT OF WAY MUST BE PRESENTED AT PRE CONSTRUCTION MEETING.
9. SELF INSPECTION AND DOCUMENTATION OF EROSION AND SEDIMENT CONTROL MEASURES IS REQUIRED ONCE PER WEEK AND AFTER EVERY 1/2" RAINFALL EVENT AS MEASURED BY AN ON-SITE RAIN GAUGE.

**DIVERSION #3/#4 CALCULATIONS:**  
 MAXIMUM DRAINAGE AREA TO DIVERSION: 1760 SF = 0.04 ACRES  
 MAXIMUM Q10=CIA= 7 in/hr \* 0.04 acres \* 0.50 = 0.14 CFS.  
 SLOPE OF DIVERSION DITCH (MAX SHOWN) = 33%  
 MINIMUM DITCH WIDTH= 1' AT BOTTOM W/ 2:1 SIDE SLOPES  
 V10=4.40 FPS IN MOST STEEP PLACE  
 SEE CALCULATIONS THIS PAGE

**CITY OF WILMINGTON EROSION CONTROL NOTES:**  
 1. FINANCIALLY RESPONSIBLE PARTY: SND MAYFAIRE LLC 943 BALDWIN PARK DRIVE, WILMINGTON, NC 2840. DRIVE, MARTINEZ, GA 30907. CONTACT: ED UMSTEAD, EDUMSTEAD@COMCAST.NET, PHONE: 706-840-4988, FAX: 706-863-7935. NC AGENT IS STEPHEN UMSTEAD, 943 BALDWIN PARK DRIVE, WILMINGTON, NC 28405. 910-262-2831  
 2. LATITUDE:34°13'58", LONGITUDE:77°50'09"

**NARRATIVE:**  
 THE PROPOSED DEVELOPMENT CONSISTS OF A NEW CARWASH BUILDING, VACUUM PARKING, DRIVE AISLES AND ASSOCIATED UTILITIES. STORMWATER DETENTION WILL BE MANAGED OFFSITE. EROSION CONTROL WILL BE MAINTAINED ONSITE BY THE CONTRACTOR AND EROSION CONTROL PHASING WILL BE DONE AS SHOWN ON THE PHASING SHEETS.

CURVE	ARC	RADIUS	CHORD BEARING	CHORD
C1	180.86'	1,098.99'	N 67°29'19" E	180.86'
C2	56.74'	730.00'	S 03°11'29" W	56.72'

LINE	BEARING	DISTANCE
L1	S 90°40'04" E	23.40'
L2	N 59°24'44" W	3.53'

- NOTES:**
1. ALL DISTURBED AREAS SHALL BE SEEDDED IN ACCORDANCE WITH THE LANDSCAPE PLAN
  2. TOTAL SITE ACREAGE: 3.55 ACRES DISTURBED AREA: 1.65 ACRES
  3. ACCORDING TO SOIL SURVEY OF NEW HAVOVER COUNTY, NORTH CAROLINA THE SITE CONSISTS OF: (SEE C704 FOR SOILS MAP.)
  4. ALL STORMWATER INFRASTRUCTURES ON THIS SITE ARE PRIVATELY OWNED, AND ANY MAINTENANCE OR REPLACEMENT IS THE OWNER'S RESPONSIBILITY.
  5. ACCORDING TO FEMA FLOOD INSURANCE RATE MAP COMMUNITY NO. 3720315700K DATED 8-28-18 THIS PROPERTY IS NOT LOCATED IN A FLOOD ZONE.

- CONSTRUCTION SEQUENCE NOTES:**
1. OBTAIN GRADING/EROSION CONTROL PLAN APPROVAL FROM THE NEW HANOVER COUNTY ENGINEERING DEPARTMENT. OBTAIN STORMWATER AND OTHER PLAN APPROVALS FROM CITY OF WILMINGTON.
  2. SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH EROSION CONTROL INSPECTOR OF THE COUNTY ENGINEERING DEPARTMENT TO DISCUSS EROSION CONTROL MEASURES. ALSO SCHEDULE A PRECON WITH THE CITY ENGINEERING DEPARTMENT. FAILURE TO SCHEDULE SUCH CONFERENCE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS A VIOLATION OF CHAPTER 17 OF THE CITY CODE AND IS SUBJECT TO FINE.
  3. INSTALL SILT FENCE, INLET PROTECTION, SEDIMENT TRAPS, DIVERSION DITCHES, TREE PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
  4. CALL FOR ON-SITE INSPECTION BY INSPECTOR. WHEN APPROVED, INSPECTOR ISSUES GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
  5. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
  6. FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL INSPECTOR PRIOR TO COMMENCING WITH EACH PHASE OF EROSION CONTROL MEASURES.
  7. STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE.
  8. COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURE.
  9. DETENTION WILL BE CLEANED OUT WHEN SITE WORK AND PAVING ARE COMPLETED AND A FINAL PERMANENT GROUND COVER IS ESTABLISHED.
  10. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, US DEPT OF AGRICULTURE, CITY OF WILMINGTON EROSION CONTROL ORDINANCE, AND THE WILMINGTON LAND DEVELOPMENT STANDARDS MANUAL.

**ON SITE CIVIL GROUP**  
 ON-SITE CIVIL GROUP OF THE CAROLINAS, PLLC  
 NCBELLS FIRM P-2625  
 980 BIRMINGHAM RD, SUITE 500-540, MILTON, GA 30004  
 PHONE: 770-465-3333  
 WWW.ONSITECIVIL.COM INFO@ONSITECIVIL.COM

THESE DRAWINGS ARE THE PROPERTY OF ONSITE CIVIL GROUP, LLC AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF ONSITE CIVIL GROUP, LLC.

APPROVED CONSTRUCTION PLAN DATED APRIL 14, 2021  
 PROJECT # 2020051  
 STORMWATER PERMIT # 2021004

**Channel Report**

Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc. Tuesday, Mar 23 2021

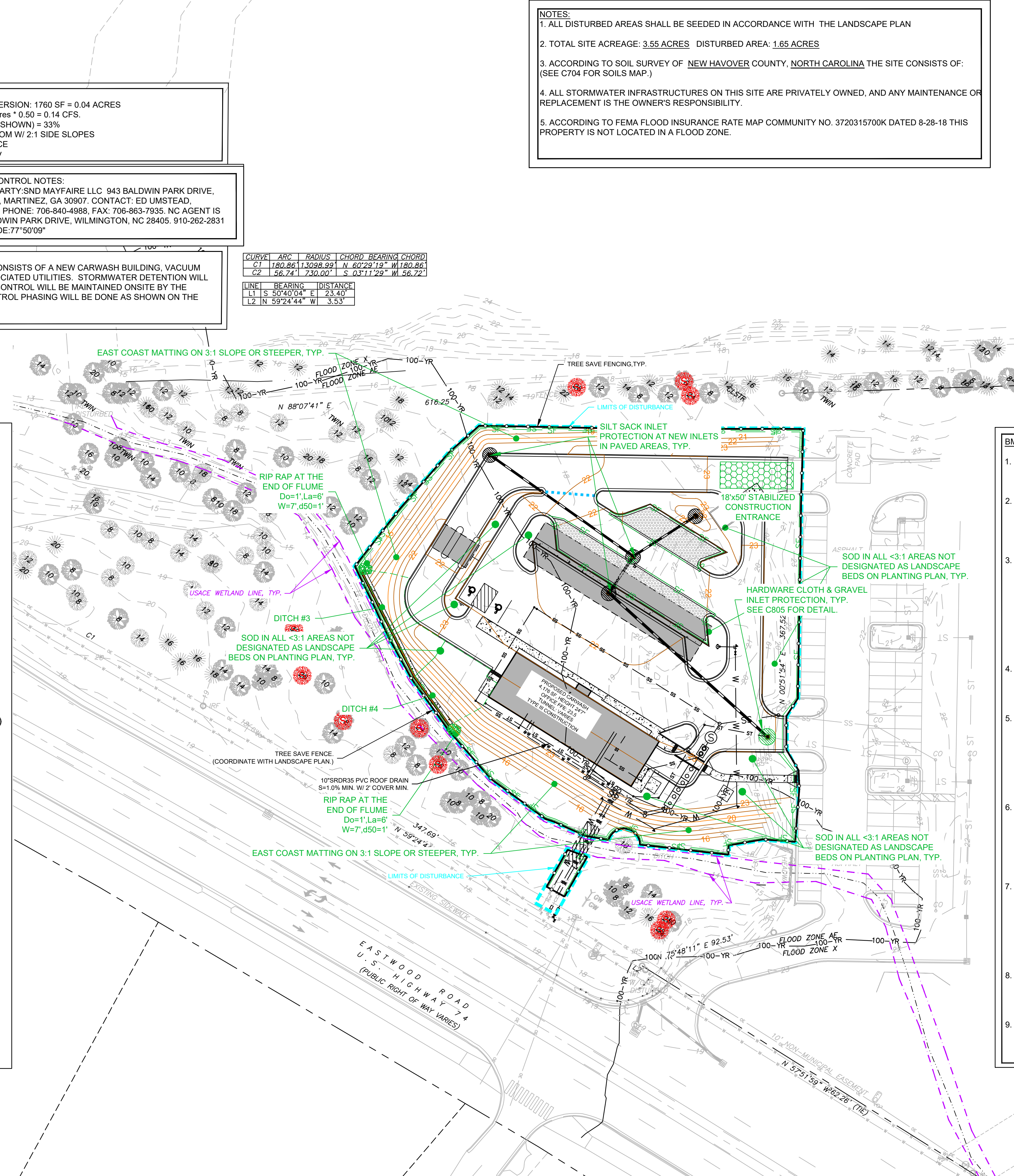
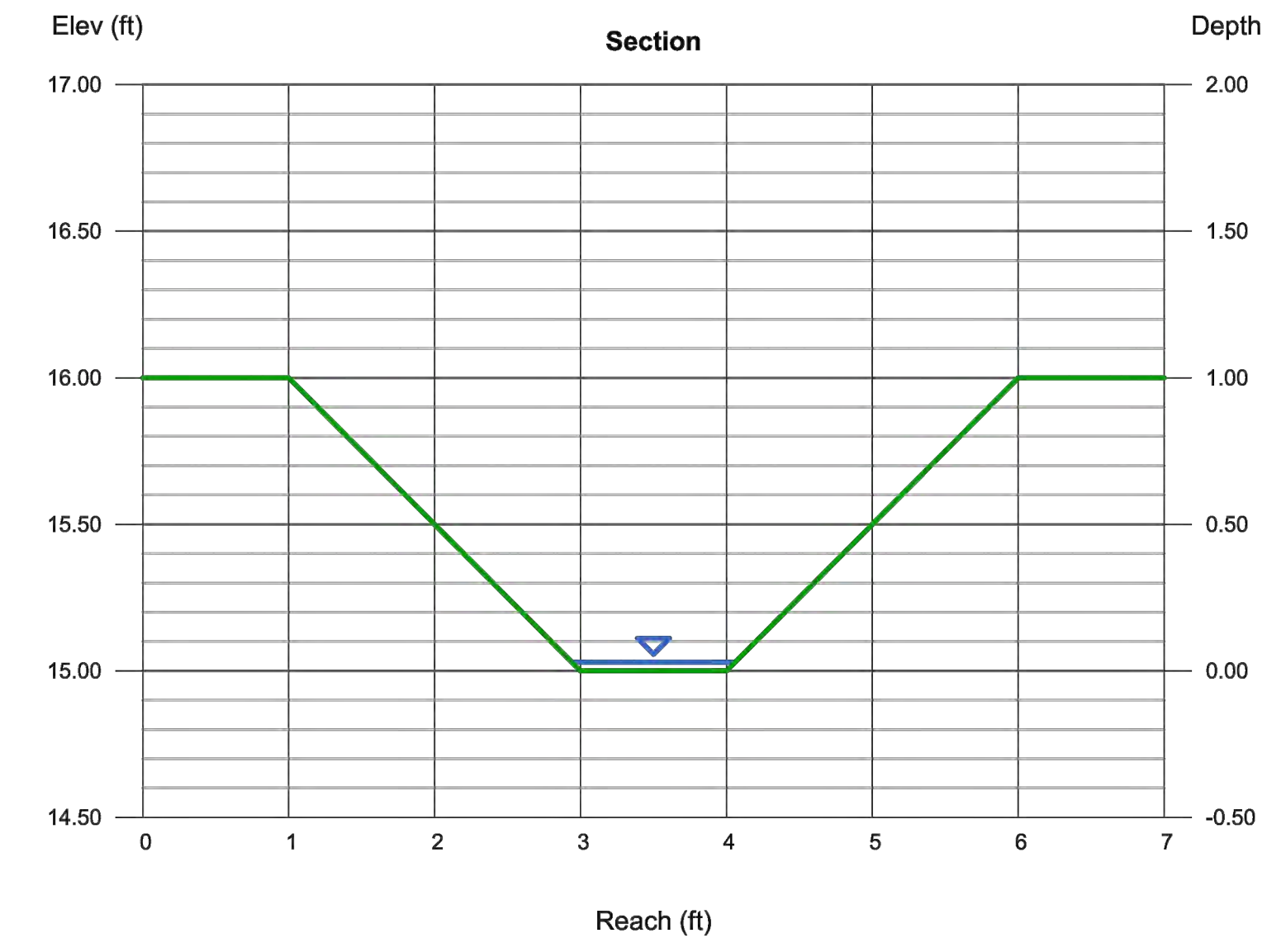
<Name>

<b>Trapezoidal</b>		<b>Highlighted</b>	
Bottom Width (ft)	= 1.00	Depth (ft)	= 0.03
Side Slopes (z:1)	= 2.00, 2.00	Q (cfs)	= 0.140
Total Depth (ft)	= 1.00	Area (sqft)	= 0.03
Invert Elev (ft)	= 15.00	Velocity (ft/s)	= 4.40
Slope (%)	= 33.00	Wetted Perim (ft)	= 1.13
N-Value	= 0.011	Crit Depth, Yc (ft)	= 0.09
		Top Width (ft)	= 1.12
		EGL (ft)	= 0.33

**Calculations**

Compute by: Known Q  
 Known Q (cfs) = 0.14



- BMP MAINTENANCE PLAN:**
1. 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 HALF INCH RAINFALL.
  2. ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN 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.
  3. SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION, BLOCK AND GRAVEL INLET PROTECTION, ROCK DOUGHNUT INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND BEAVER DAMS, DANDY SACKS, AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.
  4. DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION RIDGES WILL ALSO BE REPAIRED. SWALES MUST BE TEMPORARILY STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE.
  5. 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 WHEN IT BECOMES HALF FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED, OR IS DAMAGED.
  6. SEDIMENT WILL BE REMOVED FROM SEDIMENT TRAPS WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. THE ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR WHEN THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE.
  7. SEDIMENT WILL BE REMOVED FROM SEDIMENT BASIN WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR WHEN THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED WEEKLY AND WILL BE KEPT CLEAN.
  8. ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDDED AS NECESSARY AND MULCHED ACCORDING TO 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 WITHIN 15 WORKING DAYS.
  9. FLOCCULANTS WILL BE USED TO ADDRESS TURBIDITY ISSUES. THE PUMPS, TANKS, HOSES, AND INJECTION SYSTEMS WILL BE CHECKED FOR PROBLEMS OR TURBID DISCHARGES DAILY.

**REVISIONS**

No.	DATE	DESCRIPTION

HORIZONTAL SCALE: 1"=40'

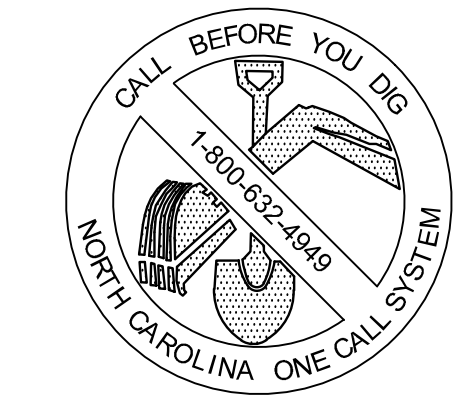
**CLIENT:**  
 SND MAYFAIRE, LLC  
 943 BALDWIN PARK DR  
 WILMINGTON, NC 28411  
**CONTACT: STEPHEN UMSTEAD**  
 910-262-2831  
 STEPHEN@SPASHANDASHONLINE.COM

**SPLASH N DASH MAYFAIRE**  
 1445 EASTWOOD RD  
 CITY OF WILMINGTON,  
 NEW HANOVER COUNTY  
 NORTH CAROLINA

**EROSION CONTROL PLAN - PHASE III**

DATE: MARCH 24, 2021  
 PROJECT: 19-050

SHEET: C 703



**CAUTION!!!**  
 The locations and elevations of existing underground utilities as shown on this drawing are only APPROXIMATE. No guarantee is either expressed or implied as to the completeness of accuracy thereof. The contractor shall be exclusively responsible for determining the exact utility locations and elevations prior to the start of construction

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN

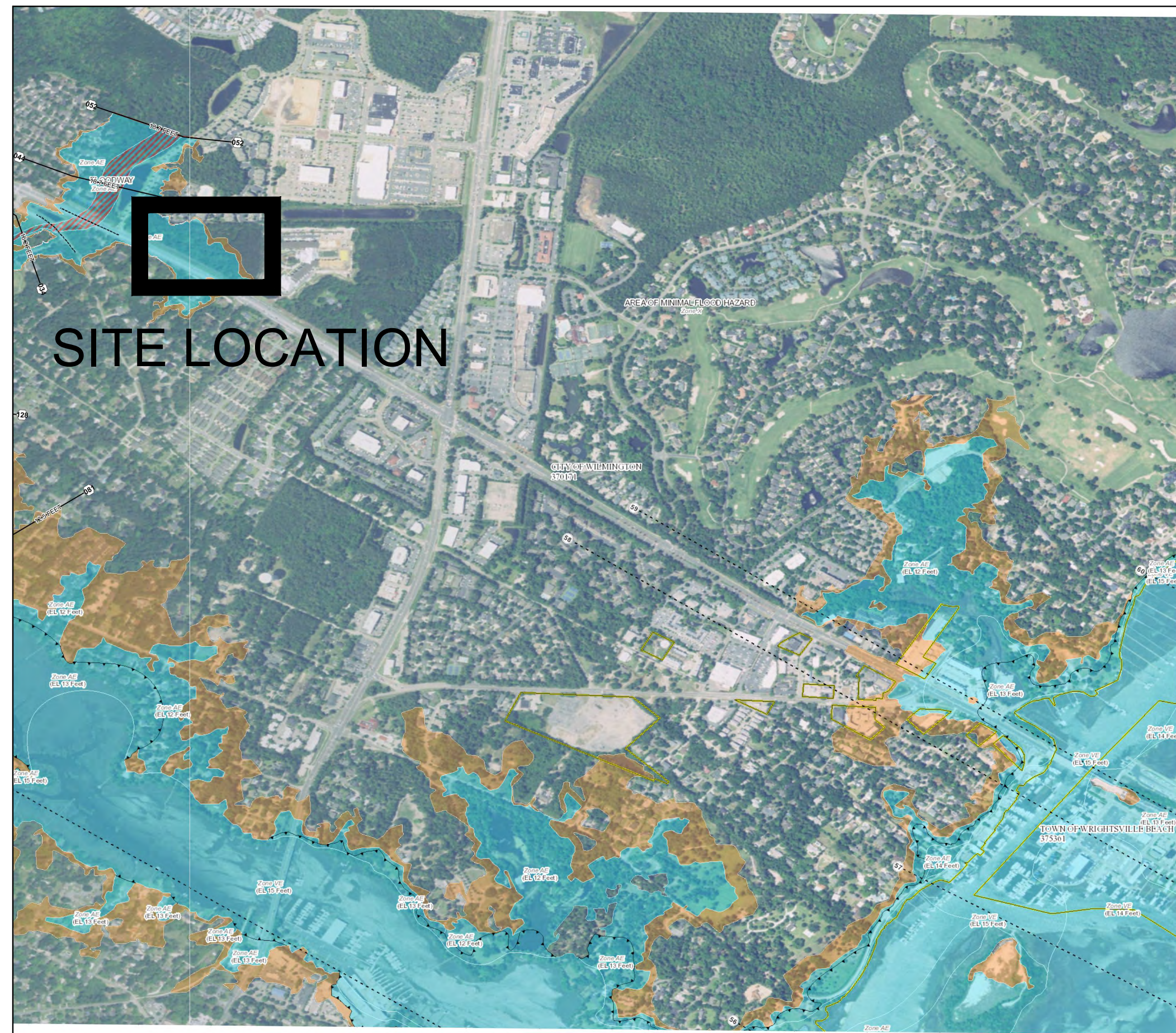
**APPROVED CONSTRUCTION PLAN**

Name	Date
Planning	
Traffic	
Fire	

**NPDES STABILIZATION TIMEFRAMES**

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HWQ) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' 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' IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HWQ ZONES

**24 HOUR CONTACT:**  
 ED UMSTEAD  
 706-840-4988



**SITE LOCATION**



**Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Be	Baymeade fine sand, 1 to 6 percent slopes	2.1	26.1%
JO	Johnston soils	1.9	23.7%
Le	Leon sand	0.2	2.5%
On	Onslow loamy fine sand	3.5	42.6%
Se	Seagate fine sand	0.2	2.9%
Wo	Woodington fine sandy loam	0.2	2.2%
<b>Totals for Area of Interest</b>		<b>8.1</b>	<b>100.0%</b>

**FLOOD HAZARD INFORMATION**  
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FORM PANEL LAYOUT

**NOTES TO USERS**

**SCALE**  
1 inch = 500 feet  
1:6,000

**FLOOD HAZARD AREAS**

- Without Base Flood Elevation (BFE)
- With BFE or Depth
- Regulatory Floodway
- 0.2% Annual Chance Flood Hazard
- 1% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Flood Risk due to Levee
- Area with Flood Risk due to Levee
- NO SCREEN
- Effective Levees
- Area of Undetermined Flood Hazard

**OTHER AREAS OF FLOOD HAZARD**

- Channel, Culvert, or Storm Sewer
- Levee, Dam, or Floodwall
- Coastal Barrier with 1% Annual Chance
- Coastal Trench
- Coastal Trench Baseline
- Profile Baseline
- Hydrographic Feature
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

**GENERAL STRUCTURES**

- 200' Class Buildings with 1% Annual Chance
- 17.5' Water Surface Elevation

**OTHER FEATURES**

- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

**NATIONAL FLOOD INSURANCE PROGRAM**  
FLOOD INSURANCE RATE MAP  
PANEL 3157 OF 3280

Panel Contains:

COMMUNITY	NUMBER	PANEL
NEW HANOVER COUNTY	370168	3157
CITY OF WILMINGTON	370171	3157
TOWN OF WRIGHTSVILLE BEACH	375361	3157

MAP NUMBER: 3720315700K  
EFFECTIVE DATE: August 28, 2018

**FEMA**  
National Flood Insurance Program

**NATIONAL FLOOD INSURANCE PROGRAM**  
FLOOD INSURANCE RATE MAP  
PANEL 3157 OF 3280

Panel Contains:

COMMUNITY	NUMBER	PANEL
NEW HANOVER COUNTY	370168	3157
CITY OF WILMINGTON	370171	3157
TOWN OF WRIGHTSVILLE BEACH	375361	3157

MAP NUMBER: 3720315700K  
EFFECTIVE DATE: August 28, 2018

**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

**APPROVED CONSTRUCTION PLAN**

Name	Date
Planning	_____
Traffic	_____
Fire	_____

**24 HOUR CONTACT:**  
ED UMSTEAD  
706-840-4988

**ONSITE CIVIL GROUP**  
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approved construction plan dated april 14, 2021  
project # 2020051  
stormwater permit # 2021004

**REVISIONS**

No.	DATE	DESCRIPTION

**CLIENT:**  
SND MAYFAIRE, LLC  
943 BALDWIN PARK DR  
WILMINGTON, NC 28411  
CONTACT: STEPHEN UMSTEAD  
910-262-2831  
STEPHEN@PLASHNDASHONLINE.COM

**SPLASH N DASH MAYFAIRE**  
1445 EASTWOOD RD  
CITY OF WILMINGTON,  
NEW HANOVER COUNTY  
NORTH CAROLINA

**EROSION CONTROL PLAN - NOTES**

DATE: MARCH 24, 2021  
PROJECT: 19-050

SHEET: **C 704**

**GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT**

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

**SECTION E: GROUND STABILIZATION**

**Required Ground Stabilization Timeframes**

Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

**Note:** After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

**GROUND STABILIZATION SPECIFICATION**

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> <li>Temporary grass seed covered with straw or other mulches and tackifiers</li> <li>Hydroseeding</li> <li>Rolled erosion control products with or without temporary grass seed</li> <li>Appropriately applied straw or other mulch</li> <li>Plastic sheeting</li> </ul>	<ul style="list-style-type: none"> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil reinforcement matting</li> <li>Hydroseeding</li> <li>Shrubs or other permanent plantings covered with mulch</li> <li>Uniform and evenly distributed ground cover sufficient to restrain erosion</li> <li>Structural methods such as concrete, asphalt or retaining walls</li> <li>Rolled erosion control products with grass seed</li> </ul>

**POLYACRYLAMIDES (PAMS) AND FLOCCULANTS**

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

**EQUIPMENT AND VEHICLE MAINTENANCE**

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

**LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE**

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

**PAINT AND OTHER LIQUID WASTE**

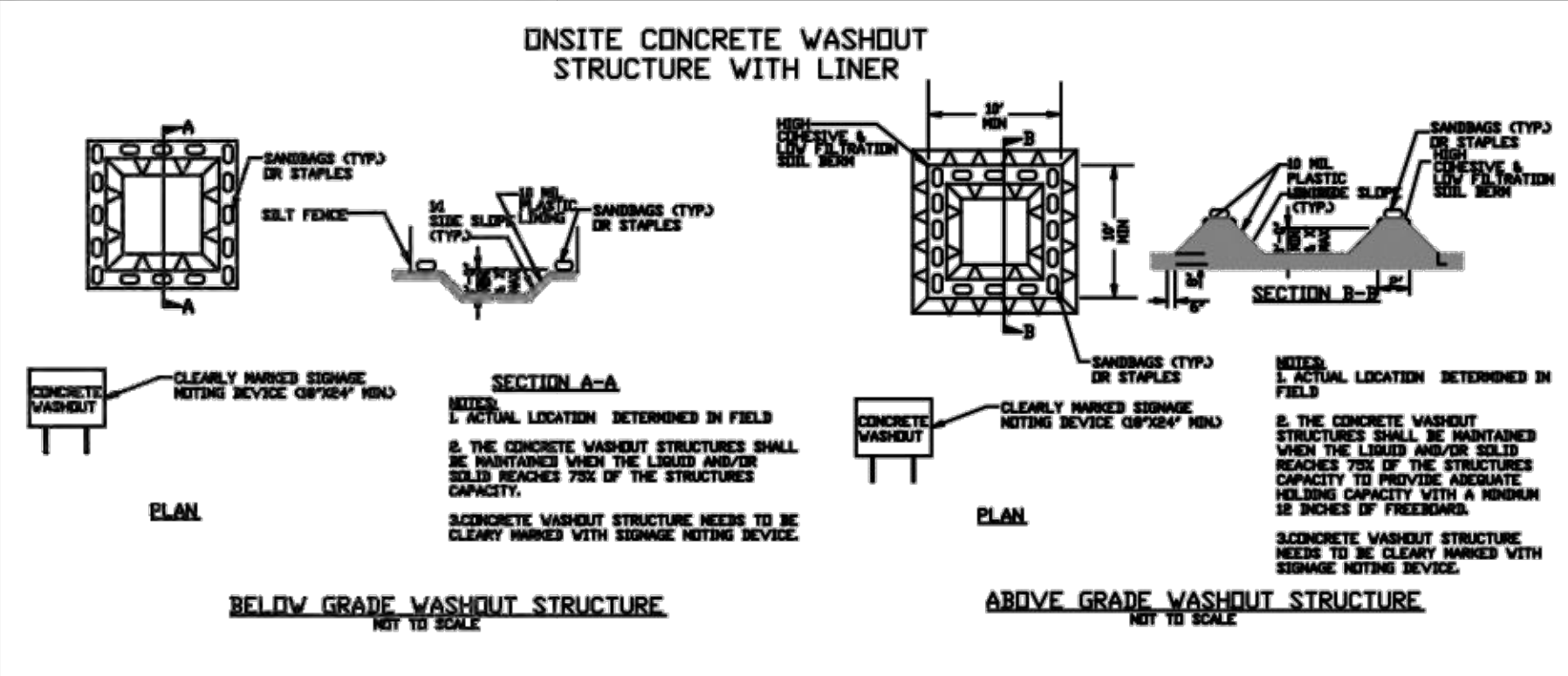
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

**PORTABLE TOILETS**

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

**EARTHEN STOCKPILE MANAGEMENT**

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



**CONCRETE WASHOUTS**

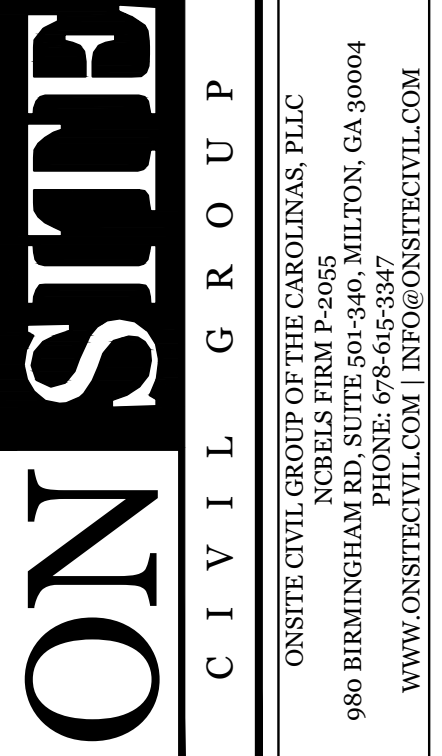
- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

**HERBICIDES, PESTICIDES AND RODENTICIDES**

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

**HAZARDOUS AND TOXIC WASTE**

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.



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approved construction plan dated april 14, 2021 project # 2020051 stormwater permit # 2021004

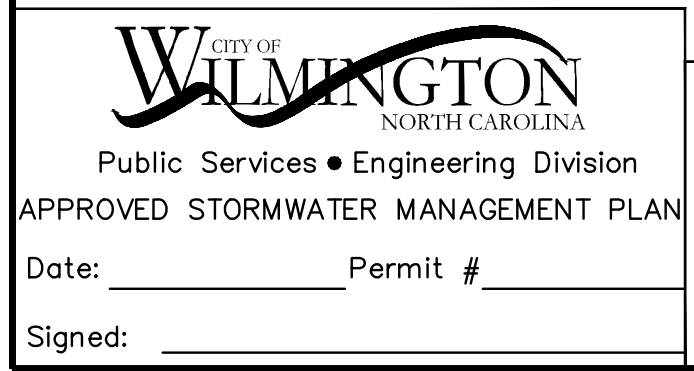
REVISIONS		
No.	DATE	DESCRIPTION

CLIENT:  
SND MAYFAIRE, LLC  
943 BALDWIN PARK DR  
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SPLASH N DASH MAYFAIRE  
1445 EASTWOOD RD  
CITY OF WILMINGTON,  
NEW HANOVER COUNTY  
NORTH CAROLINA

**NCG01 GROUND STABILIZATION AND MATERIALS HANDLING**

**EFFECTIVE: 04/01/19**



APPROVED CONSTRUCTION PLAN	
Name	Date
Planning	
Traffic	
Fire	

24 HOUR CONTACT:  
ED UMSTEAD  
706-840-4988

EROSION CONTROL PLAN - NOTES

DATE: MARCH 24, 2021  
PROJECT: 19-050

SHEET: C705

**PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**SECTION A: SELF-INSPECTION**

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDCs)	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

**PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**SECTION B: RECORDKEEPING**

**1. E&SC Plan Documentation**

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

**2. Additional Documentation to be Kept on Site**

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This General Permit as well as the Certificate of Coverage, after it is received.
- (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

**3. Documentation to be Retained for Three Years**

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

**PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**SECTION C: REPORTING**

**1. Occurrences that Must be Reported**

Permittees shall report the following occurrences:

- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
  - They are 25 gallons or more,
  - They are less than 25 gallons but cannot be cleaned up within 24 hours,
  - They cause sheen on surface waters (regardless of volume), or
  - They are within 100 feet of surface waters (regardless of volume).
- (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) Noncompliance with the conditions of this permit that may endanger health or the environment.

**2. Reporting Timeframes and Other Requirements**

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification.</li> <li>• <b>Within 7 calendar days</b>, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.</li> <li>• If the stream is named on the <a href="#">NC 303(d) list</a> as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.</li> </ul>
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.</li> </ul>
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> <li>• <b>A report at least ten days before the date of the bypass, if possible.</b> The report shall include an evaluation of the anticipated quality and effect of the bypass.</li> </ul>
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification.</li> <li>• <b>Within 7 calendar days</b>, a report that includes an evaluation of the quality and effect of the bypass.</li> </ul>
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification.</li> <li>• <b>Within 7 calendar days</b>, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6)].</li> <li>• Division staff may waive the requirement for a written report on a case-by-case basis.</li> </ul>

**PART II, SECTION G, ITEM (4)  
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT**

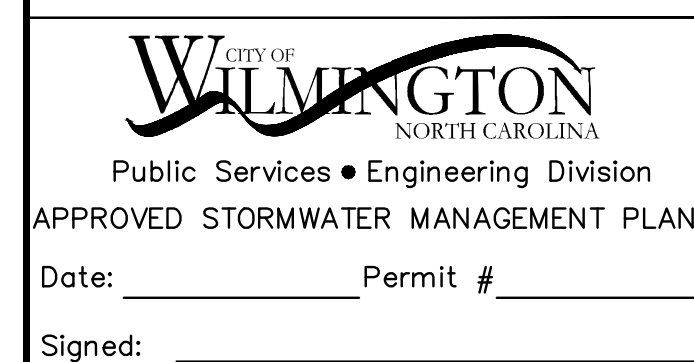
Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
- (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.



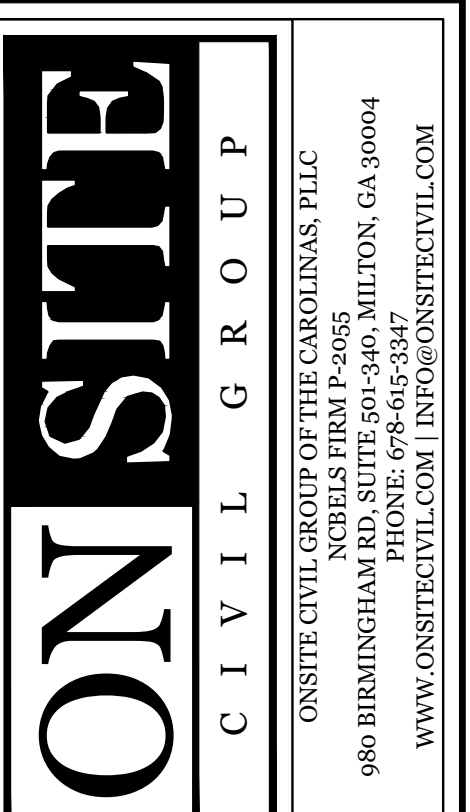
**NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**EFFECTIVE: 04/01/19**



APPROVED CONSTRUCTION PLAN	
Name	Date
Planning	
Traffic	
Fire	

**24 HOUR CONTACT:  
ED UMSTEAD  
706-840-4988**



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APPROVED CONSTRUCTION PLAN  
DATED APRIL 14, 2021  
PROJECT # 2020051  
STORMWATER PERMIT # 2021004

No.	DATE	DESCRIPTION

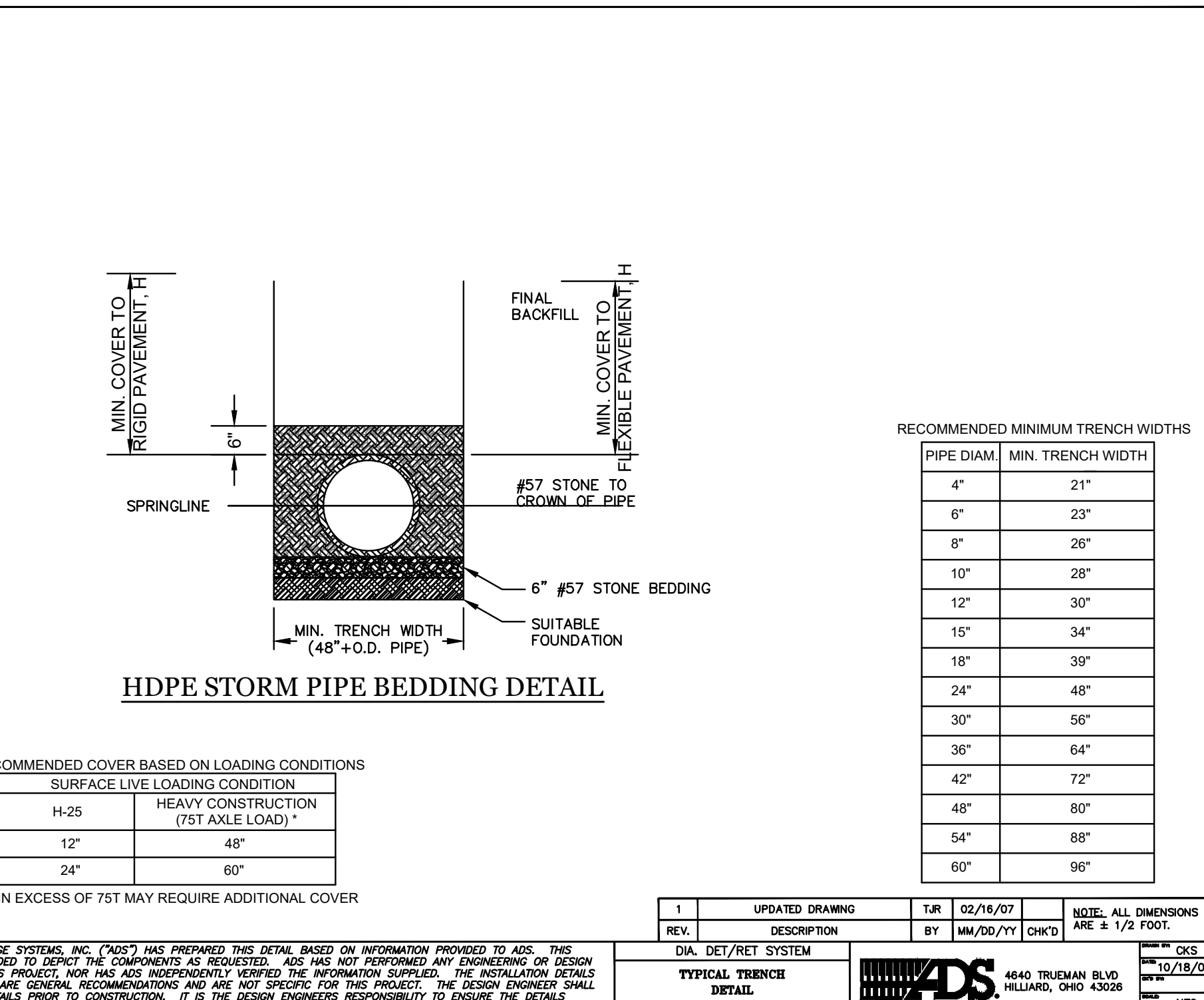
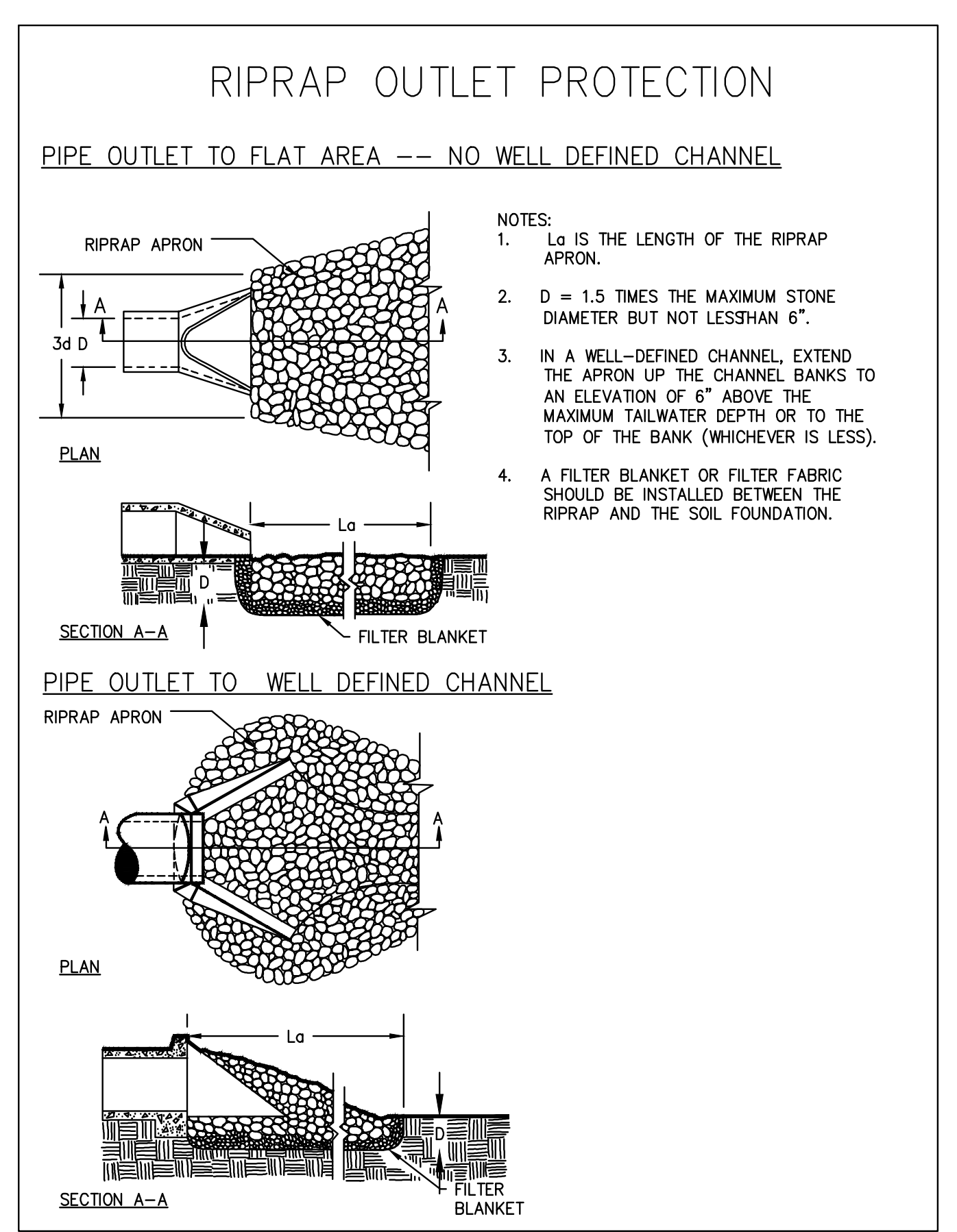
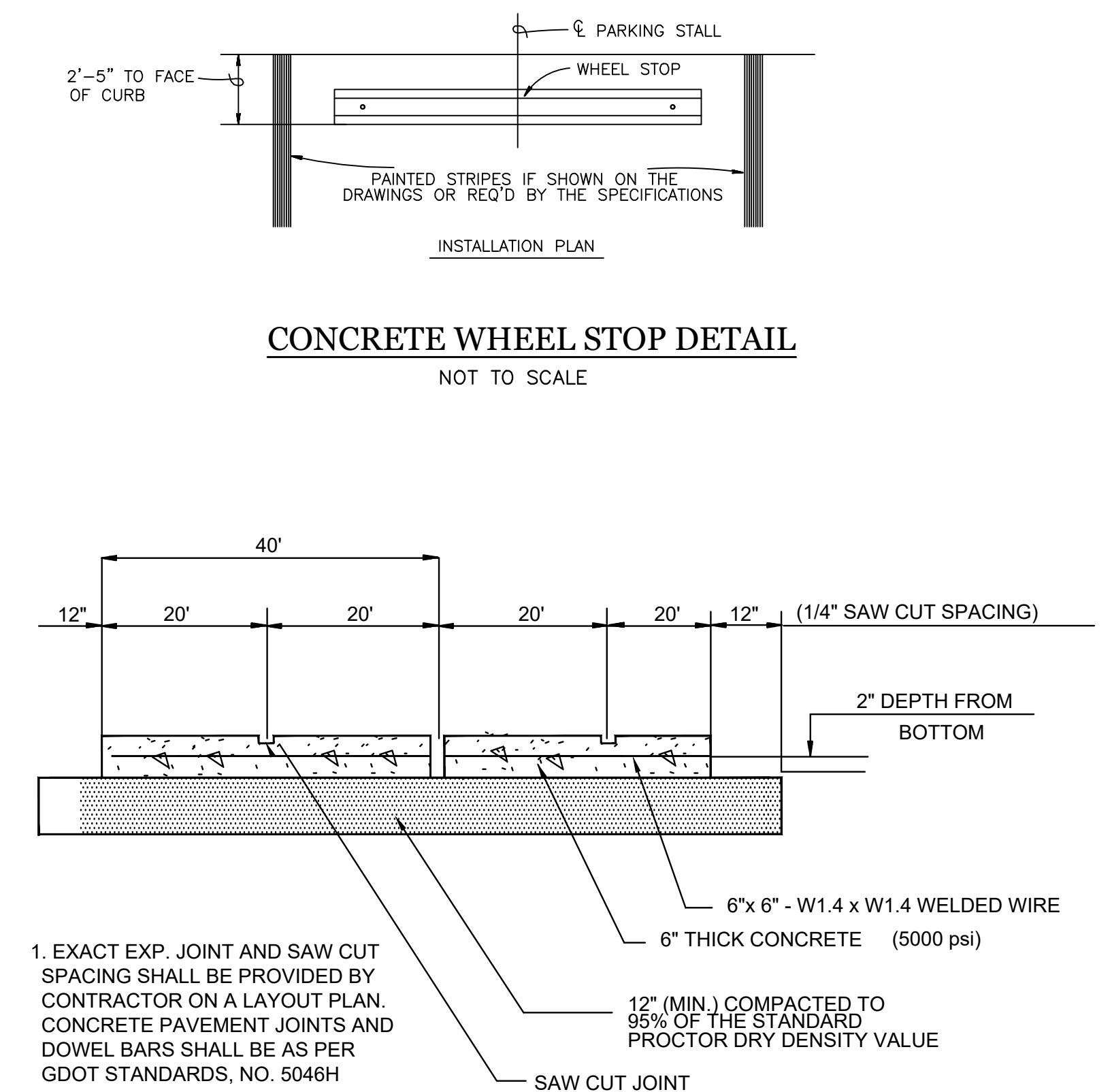
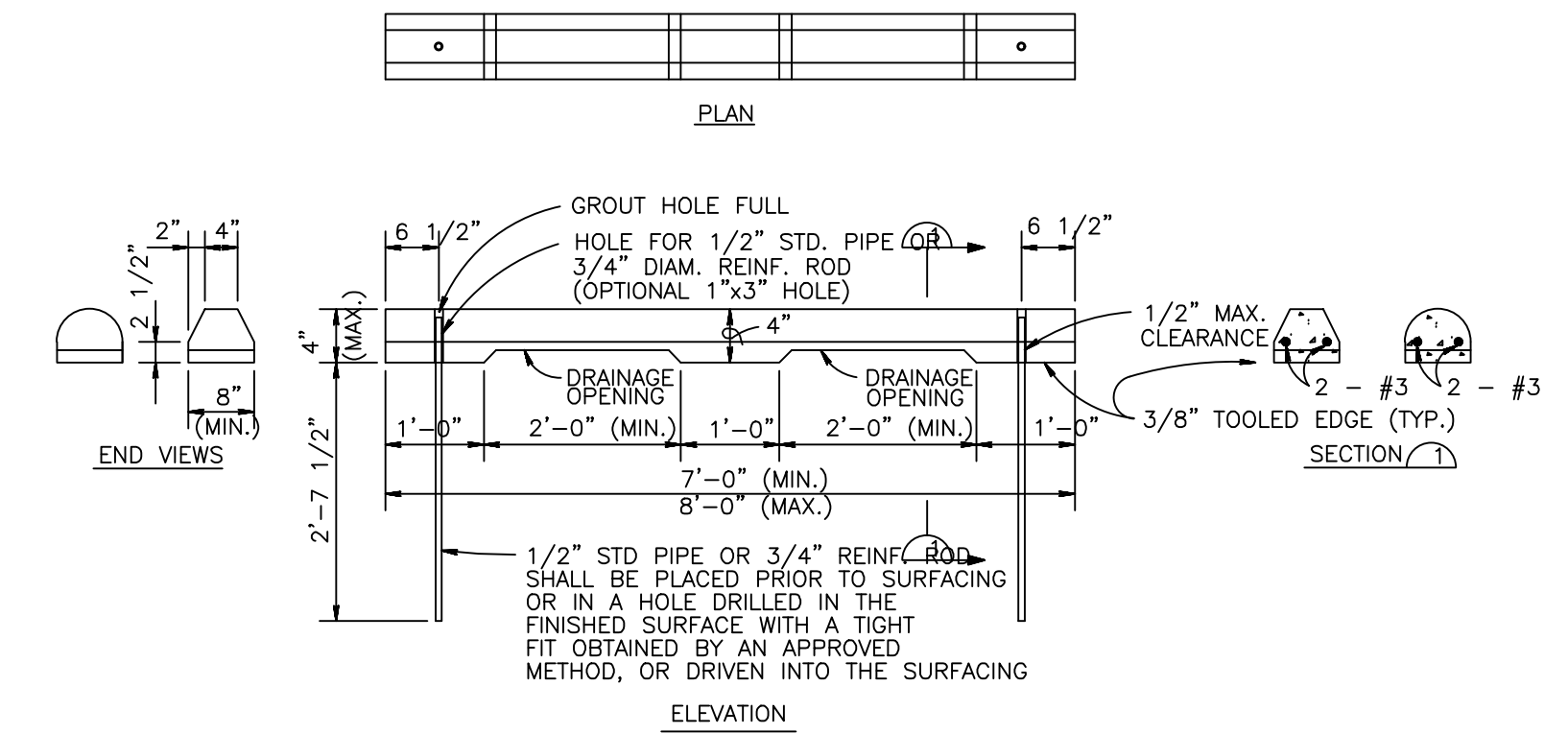
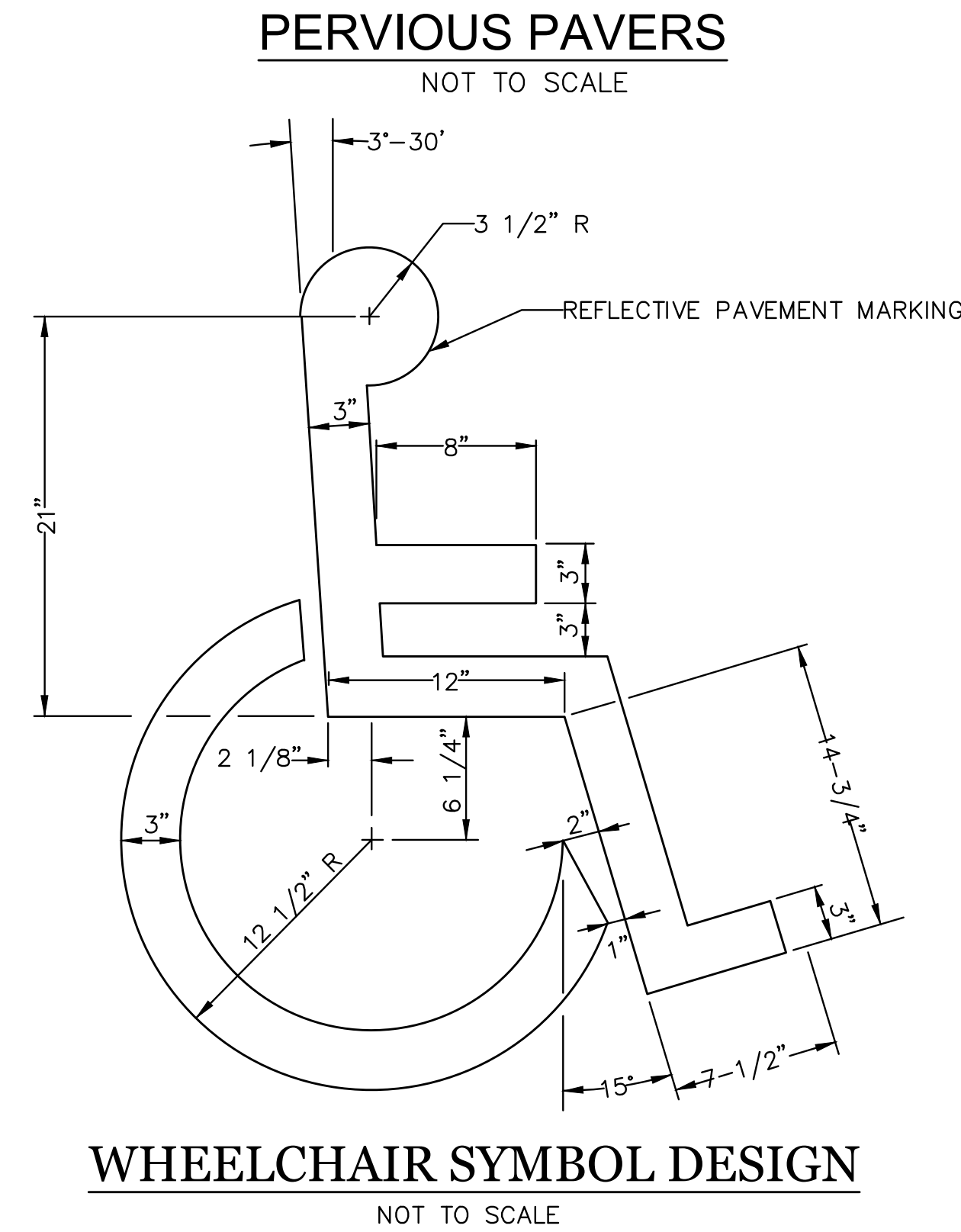
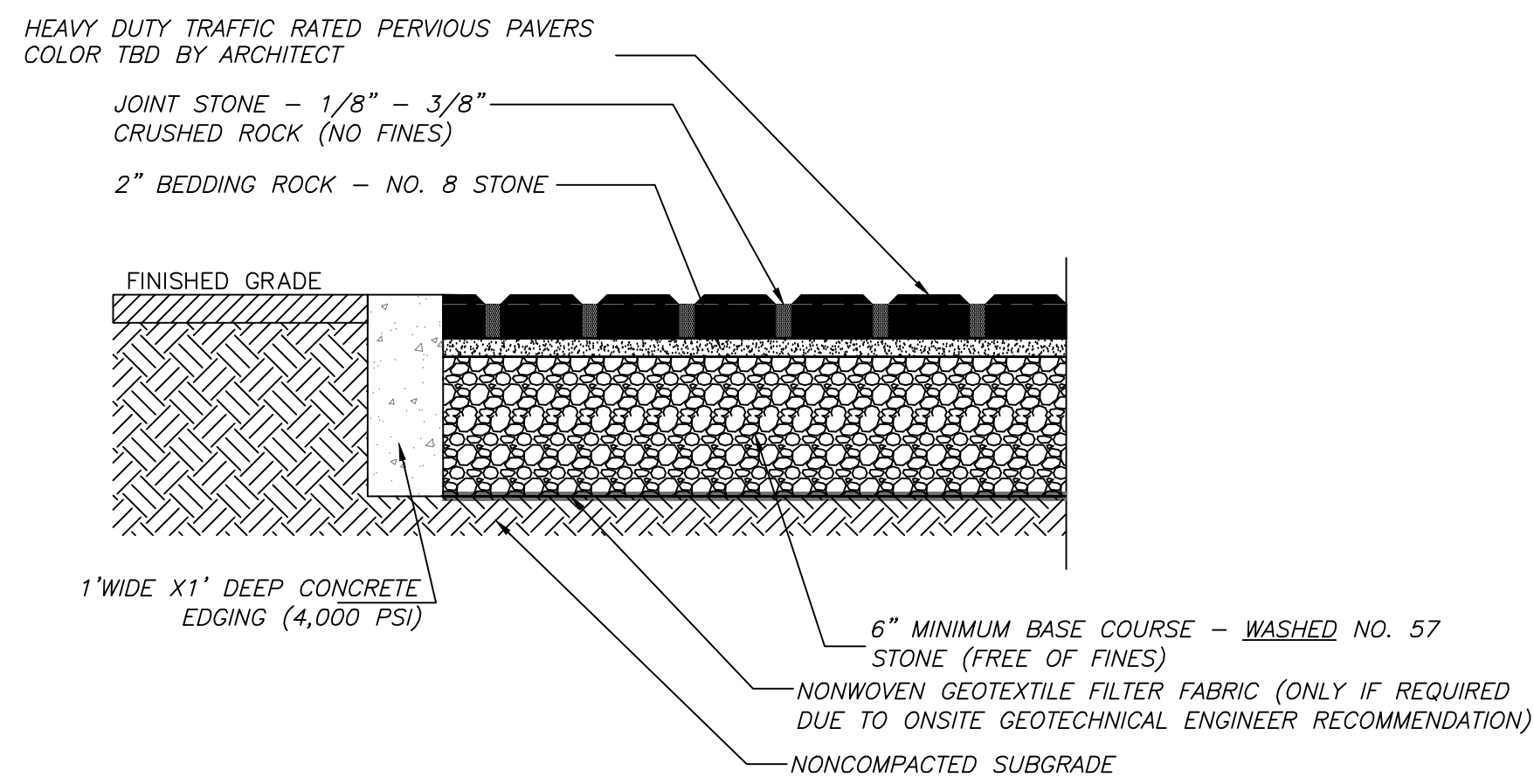
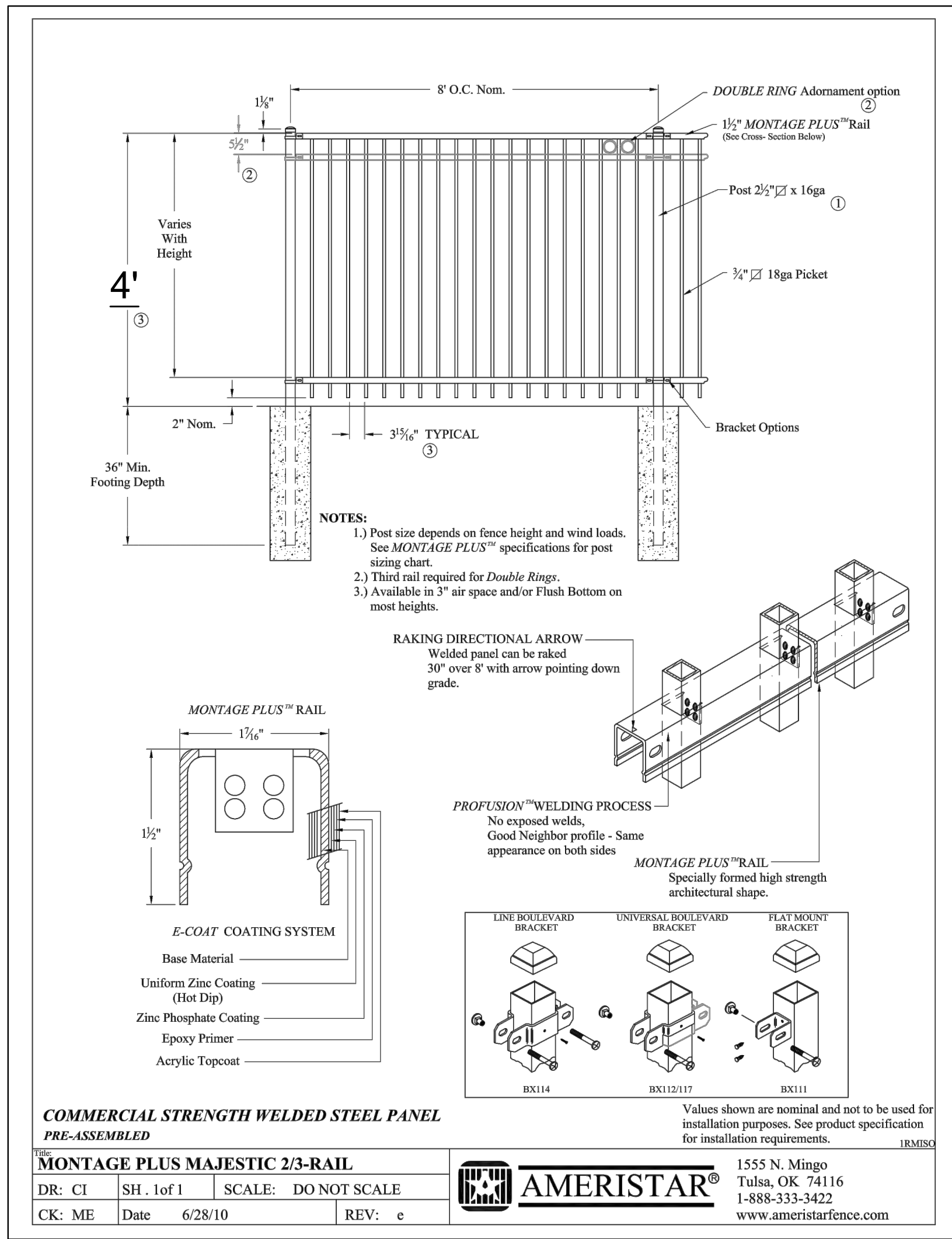
CLIENT:  
SND MAYFARE, LLC  
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WILMINGTON, NC 28411  
CONTACT: STEPHEN UMSTEAD  
910-262-2831  
STEPHEN@PLASHNDASHONLINE.COM

SPLASH N DASH MAYFARE  
1445 EASTWOOD RD  
CITY OF WILMINGTON,  
NEW HANOVER COUNTY  
NORTH CAROLINA

EROSION CONTROL  
PLAN - NOTES

DATE: MARCH 24, 2021  
PROJECT: 19-050

SHEET: **C706**



**ONSITE CIVIL GROUP**

ONSITE CIVIL GROUP OF THE CAROLINAS, PLLC  
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APPROVED CONSTRUCTION PLAN  
DATED APRIL 14, 2021  
PROJECT # 2020051  
STORMWATER PERMIT # 2021004

**REVISIONS**

No.	DATE	DESCRIPTION

CLIENT:  
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SPLASH N DASH MAYFAIRE  
1445 EASTWOOD RD  
CITY OF WILMINGTON,  
NEW HANOVER COUNTY  
NORTH CAROLINA

CONSTRUCTION  
DETAILS

DATE: MARCH 24, 2021  
PROJECT: 19-050

SHEET: C 801

**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

APPROVED CONSTRUCTION PLAN

Name	Date
Planning	
Traffic	
Fire	

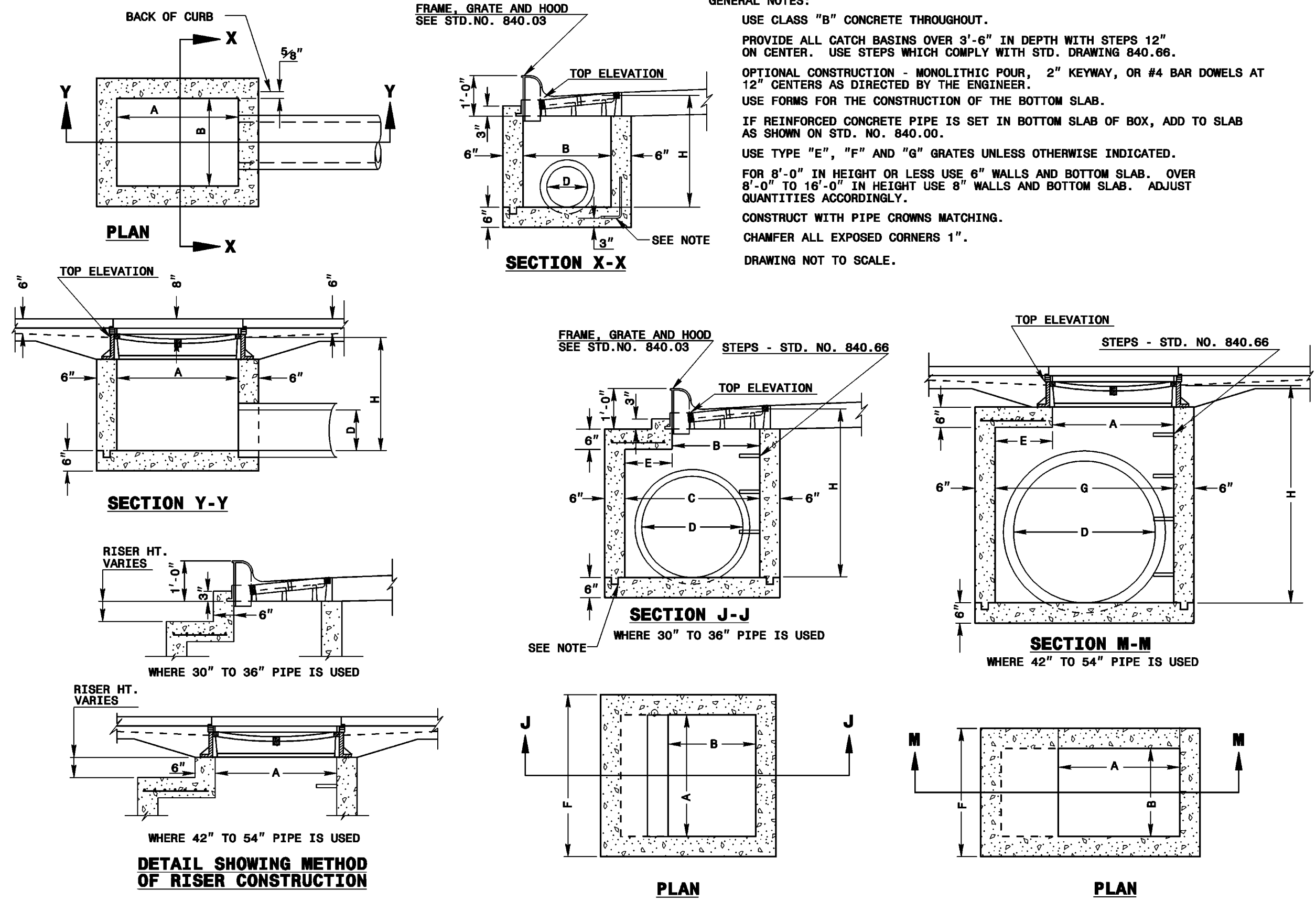
24 HOUR CONTACT:  
ED UMSTEAD  
706-840-4988



STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR  
CONCRETE CATCH BASIN  
12" THRU 54" PIPE

SHEET 1 OF 2  
840.02



STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

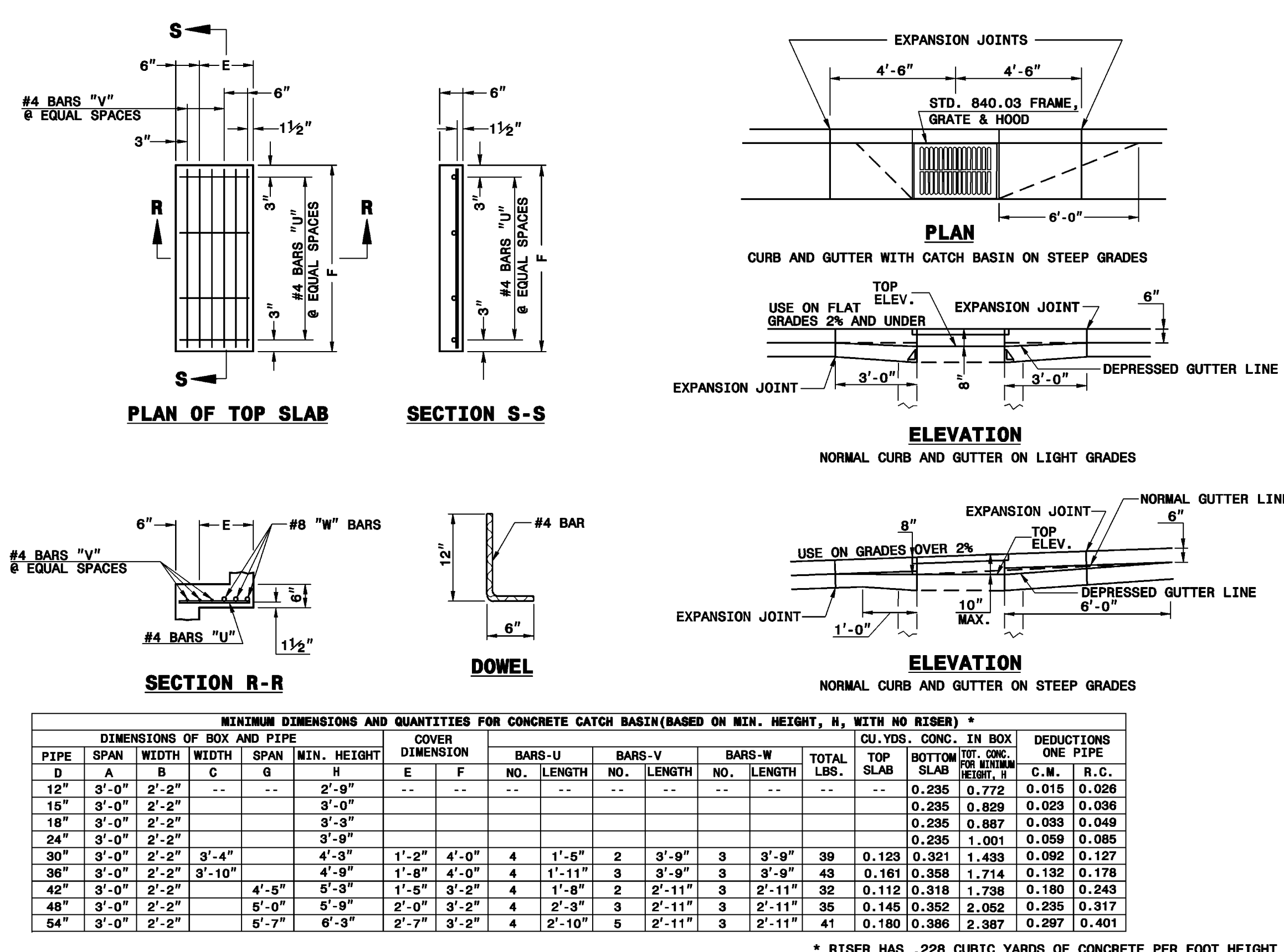
ENGLISH STANDARD DRAWING FOR  
CONCRETE CATCH BASIN  
12" THRU 54" PIPE

SHEET 1 OF 2  
840.02

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR  
CONCRETE CATCH BASIN  
12" THRU 54" PIPE

SHEET 2 OF 2  
840.02



STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR  
CONCRETE CATCH BASIN  
12" THRU 54" PIPE

SHEET 2 OF 2  
840.02

**ONSITE CIVIL GROUP**  
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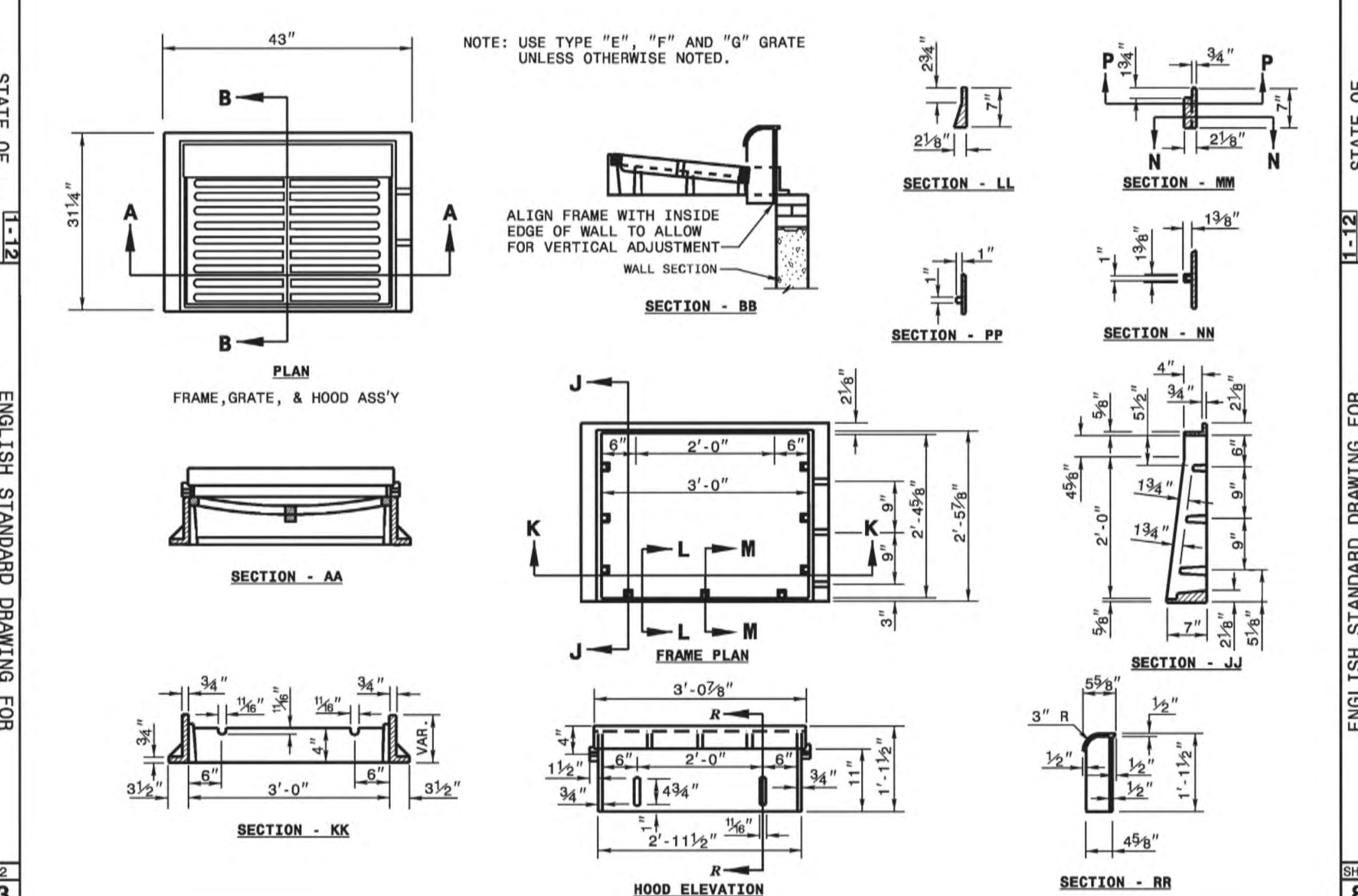
APPROVED CONSTRUCTION PLAN  
 DATED APRIL 14, 2021  
 PROJECT # 2020051  
 STORMWATER PERMIT # 2021004

REVISIONS		
No.	DATE	DESCRIPTION

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR  
FRAME, GRATES, AND HOOD  
FOR USE ON STANDARD CATCH BASIN

SHEET 1 OF 2  
840.03



STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

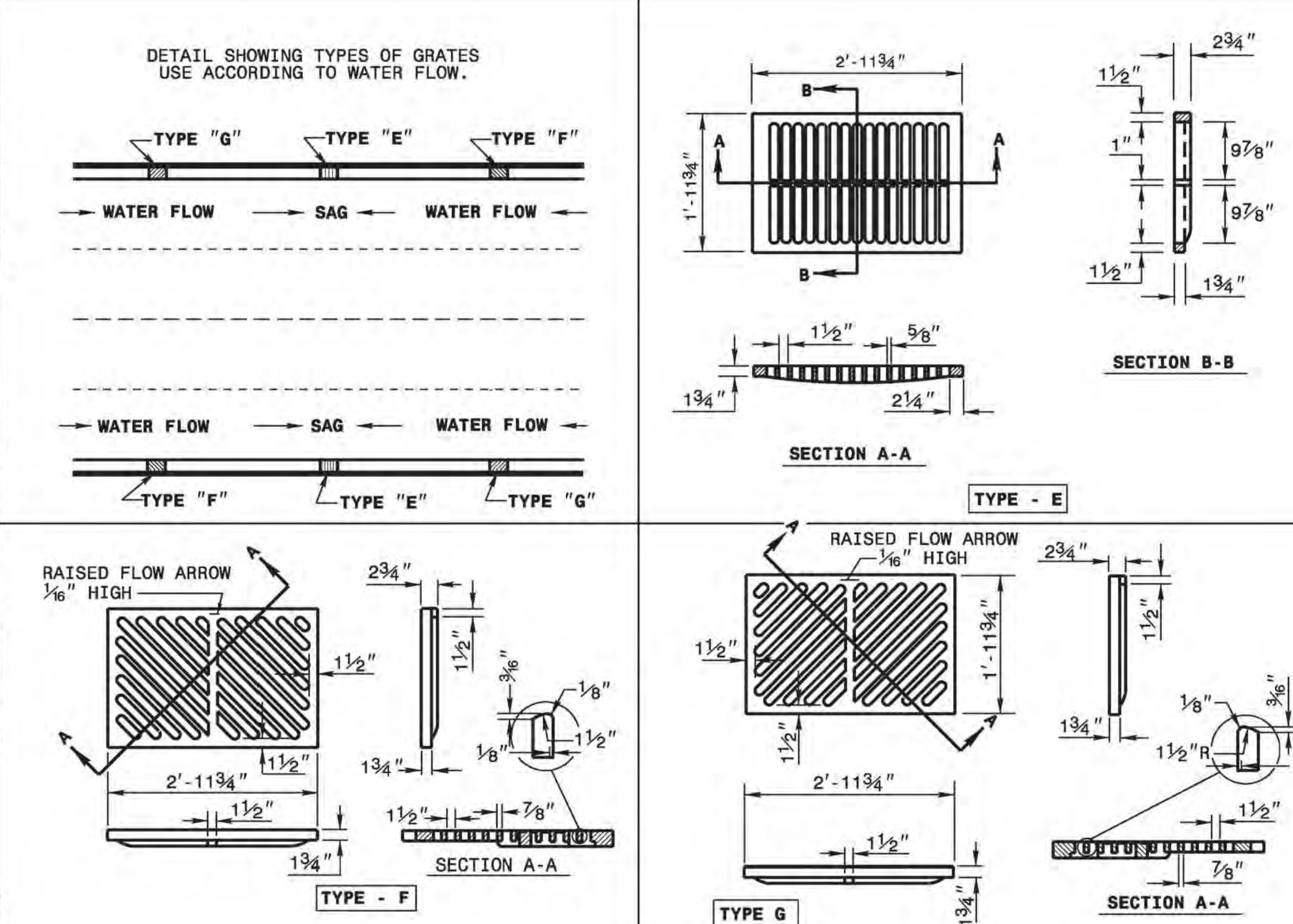
ENGLISH STANDARD DRAWING FOR  
FRAME, GRATES, AND HOOD  
FOR USE ON STANDARD CATCH BASIN

SHEET 1 OF 2  
840.03

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR  
FRAME, GRATES, AND HOOD  
FOR USE ON STANDARD CATCH BASIN

SHEET 2 OF 2  
840.03



STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR  
FRAME, GRATES, AND HOOD  
FOR USE ON STANDARD CATCH BASIN

SHEET 2 OF 2  
840.03

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 CITY OF WILMINGTON,  
 NEW HANOVER COUNTY  
 NORTH CAROLINA

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN

APPROVED CONSTRUCTION PLAN  
 Name \_\_\_\_\_ Date \_\_\_\_\_

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

Planning \_\_\_\_\_  
 Traffic \_\_\_\_\_  
 Fire \_\_\_\_\_

24 HOUR CONTACT:  
 ED UMSTEAD  
 706-840-4988

CONSTRUCTION DETAILS

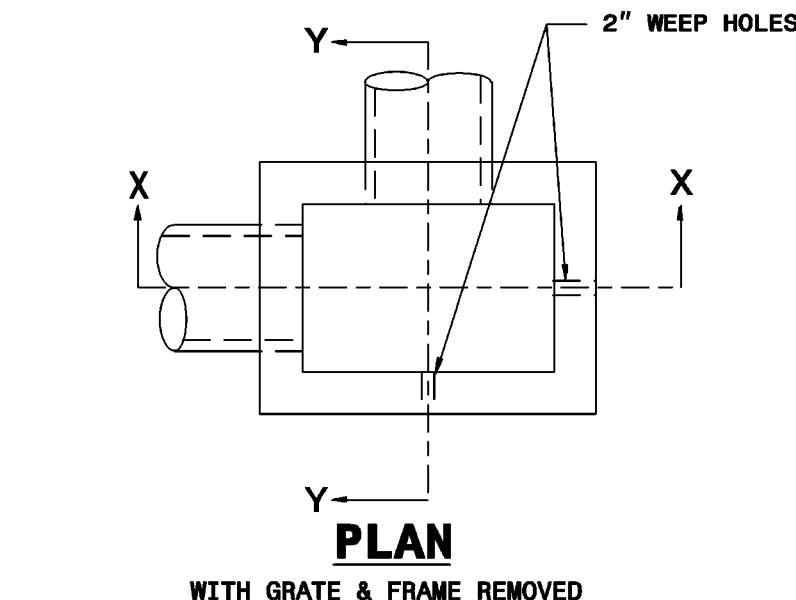
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 PROJECT: 19-050

SHEET: **C 802**

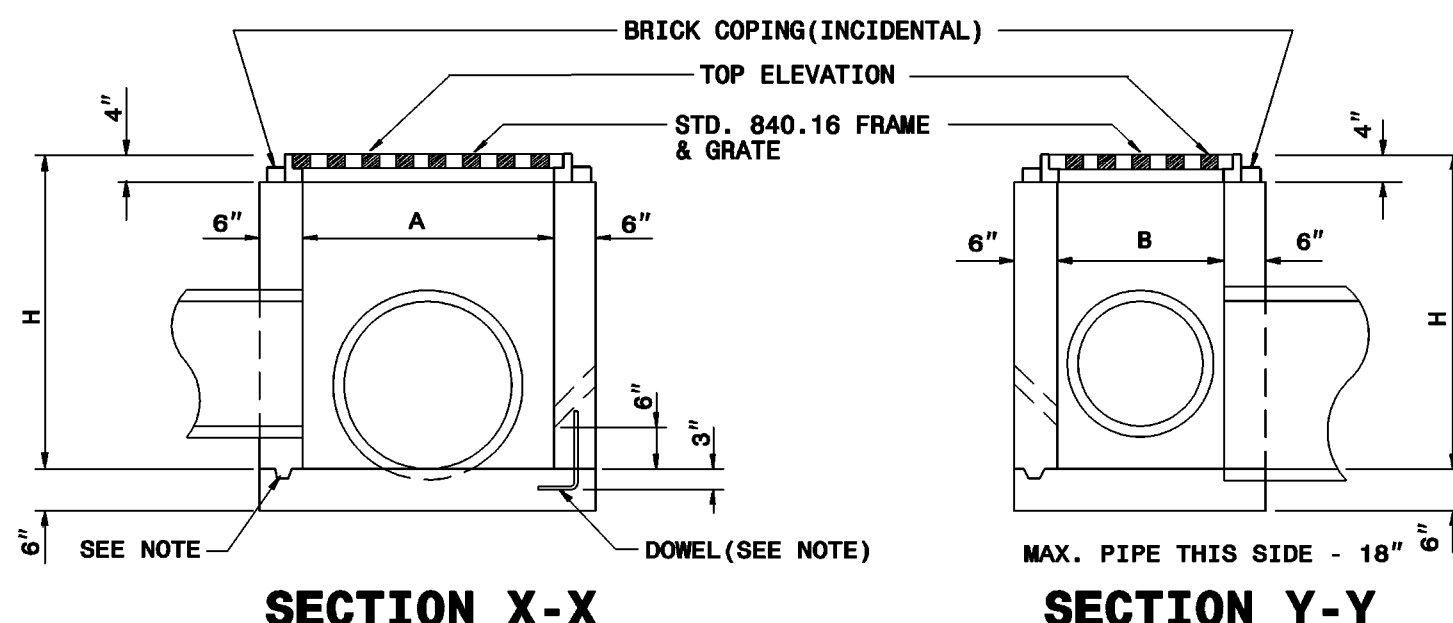
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR CONCRETE DROP INLET 12" THRU 30" PIPE

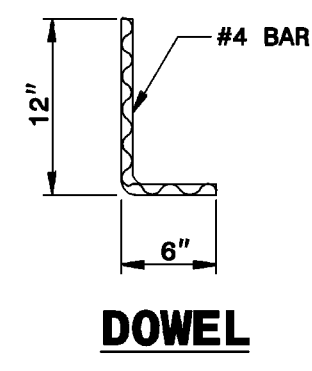
SHEET 1 OF 1 840.14



GENERAL NOTES:  
 USE CLASS "B" CONCRETE THROUGHOUT.  
 PROVIDE ALL DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.  
 OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.  
 USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.  
 IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.  
 CONSTRUCT WITH PIPE CROWNS MATCHING.  
 INSTALL 2" WEEPHOLES AS DIRECTED BY THE ENGINEER.  
 INSTALL STONE DRAINS, OF A MINIMUM OF 1 CUBIC FOOT OF NO. 78M STONE IN A POROUS FABRIC BAG OR WRAP, AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER.  
 CHAMFER ALL EXPOSED CORNERS 1".  
 DRAWING NOT TO SCALE.



DIMENSIONS AND QUANTITIES FOR CONCRETE INLET (BASED ON MIN. HEIGHT, H)				CUBIC YARDS CONC. IN BOX		DEDUCTIONS FOR ONE PIPE	
PIPE	SPAN	WIDTH	MIN. HEIGHT	BOTTOM SLAB	WALL PER FT. HT.	TOTAL CONCRETE FOR BOTTOM SLAB	R.C.
12"	3'-0"	2'-0"	2'-0"	0.222	0.592	0.015	0.026
15"	3'-0"	2'-0"	2'-3"	0.222	0.648	0.023	0.036
18"	3'-0"	2'-0"	2'-6"	0.222	0.703	0.033	0.049
24"	3'-0"	2'-0"	3'-0"	0.222	0.814	0.059	0.085
30"	3'-0"	2'-0"	3'-6"	0.222	0.925	0.092	0.127



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

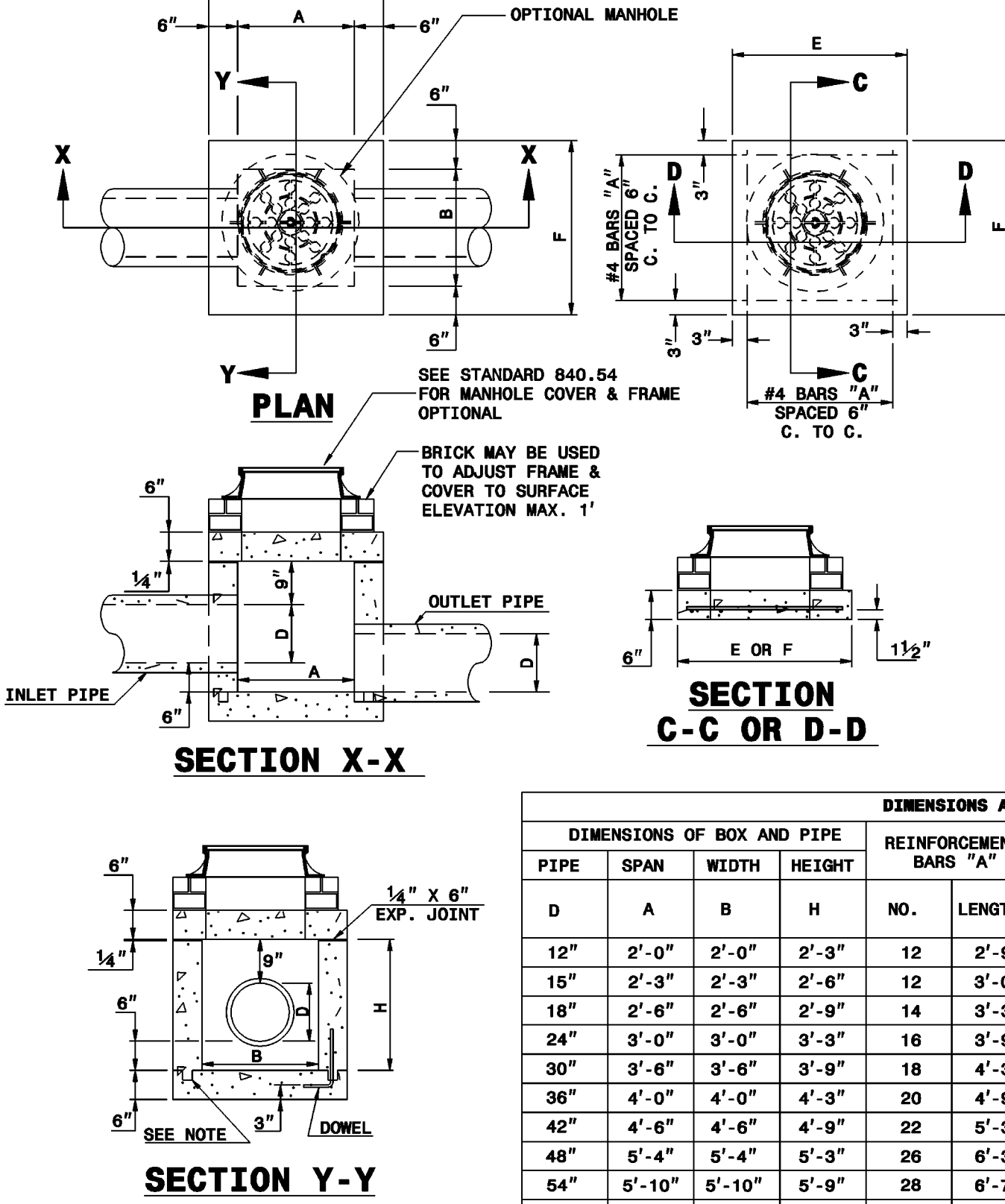
ENGLISH STANDARD DRAWING FOR CONCRETE DROP INLET 12" THRU 30" PIPE

SHEET 1 OF 1 840.14

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR CONCRETE JUNCTION BOX (WITH OPTIONAL MANHOLE) 12" THRU 66" PIPE

SHEET 1 OF 1 840.31



GENERAL NOTES:  
 CHAMFER ALL EXPOSED CORNERS 1".  
 USE CLASS "B" CONCRETE THROUGHOUT.  
 OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.  
 USE FORMS TO CONSTRUCT THE BOTTOM SLAB.  
 IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE AS SHOWN ON STANDARD NO. 840.00.  
 PROVIDE ALL JUNCTION BOXES OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTERS IN ACCORDANCE WITH STD. NO. 840.66.  
 ADJUST THE STEEL, CONCRETE AND BRICK MASONRY QUANTITIES TO INCLUDE THE ADDITION OF THE MANHOLE (I.E. DIAGONAL BARS SHORTENED AROUND OPENING IN TOP SLAB, ADDITIONAL VARIABLE HEIGHT BRICK MASONRY, OPENING IN TOP SLAB.)  
 MAX. DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12 FEET.

DIMENSIONS OF BOX AND PIPE				DIMENSIONS AND QUANTITIES FOR CONCRETE JUNCTION BOXES				TOTAL QUANTITIES BOX AND SLAB		DEDUCTIONS FOR ONE PIPE CU. YDS.				
PIPE	SPAN	WIDTH	HEIGHT	REINFORCEMENT BARS "A"	TOP SLAB DIMENSIONS	CUBIC YARDS IN BOX			LBS. REINF.	CU. YDS. "H"	C.S.	R.C.		
D	A	B	H	NO.	LENGTH	E	F	TOP SLAB	BOTTOM SLAB	WALL/ FT. OF HT.				
12"	2'-0"	2'-0"	2'-3"	12	2'-9"	3'-0"	3'-0"	0.167	0.167	0.185	22	0.760	0.015	0.024
15"	2'-3"	2'-3"	2'-6"	12	3'-0"	3'-3"	3'-3"	0.196	0.196	0.204	24	0.902	0.023	0.036
18"	2'-6"	2'-6"	2'-9"	14	3'-3"	3'-6"	3'-6"	0.227	0.227	0.222	30	1.065	0.033	0.049
24"	3'-0"	3'-0"	3'-3"	16	3'-9"	4'-0"	4'-0"	0.296	0.296	0.259	40	1.434	0.059	0.085
30"	3'-6"	3'-6"	3'-9"	18	4'-3"	4'-6"	4'-6"	0.375	0.375	0.296	51	1.860	0.092	0.127
36"	4'-0"	4'-0"	4'-3"	20	4'-9"	5'-0"	5'-0"	0.463	0.463	0.333	64	2.341	0.132	0.178
42"	4'-6"	4'-6"	4'-9"	22	5'-3"	5'-6"	5'-6"	0.560	0.560	0.370	77	2.878	0.180	0.243
48"	5'-0"	5'-0"	5'-3"	24	5'-9"	6'-0"	6'-0"	0.663	0.663	0.407	111	3.623	0.235	0.317
54"	5'-6"	5'-6"	5'-9"	26	6'-3"	6'-6"	6'-6"	0.775	0.775	0.444	128	4.283	0.287	0.401
60"	6'-0"	6'-0"	6'-3"	28	6'-9"	7'-0"	7'-0"	0.895	0.895	0.481	145	5.090	0.367	0.495
66"	7'-0"	7'-0"	6'-9"	32	7'-9"	8'-0"	8'-0"	1.030	1.030	0.518	169	6.017	0.444	0.589

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR CONCRETE JUNCTION BOX (WITH OPTIONAL MANHOLE) 12" THRU 66" PIPE

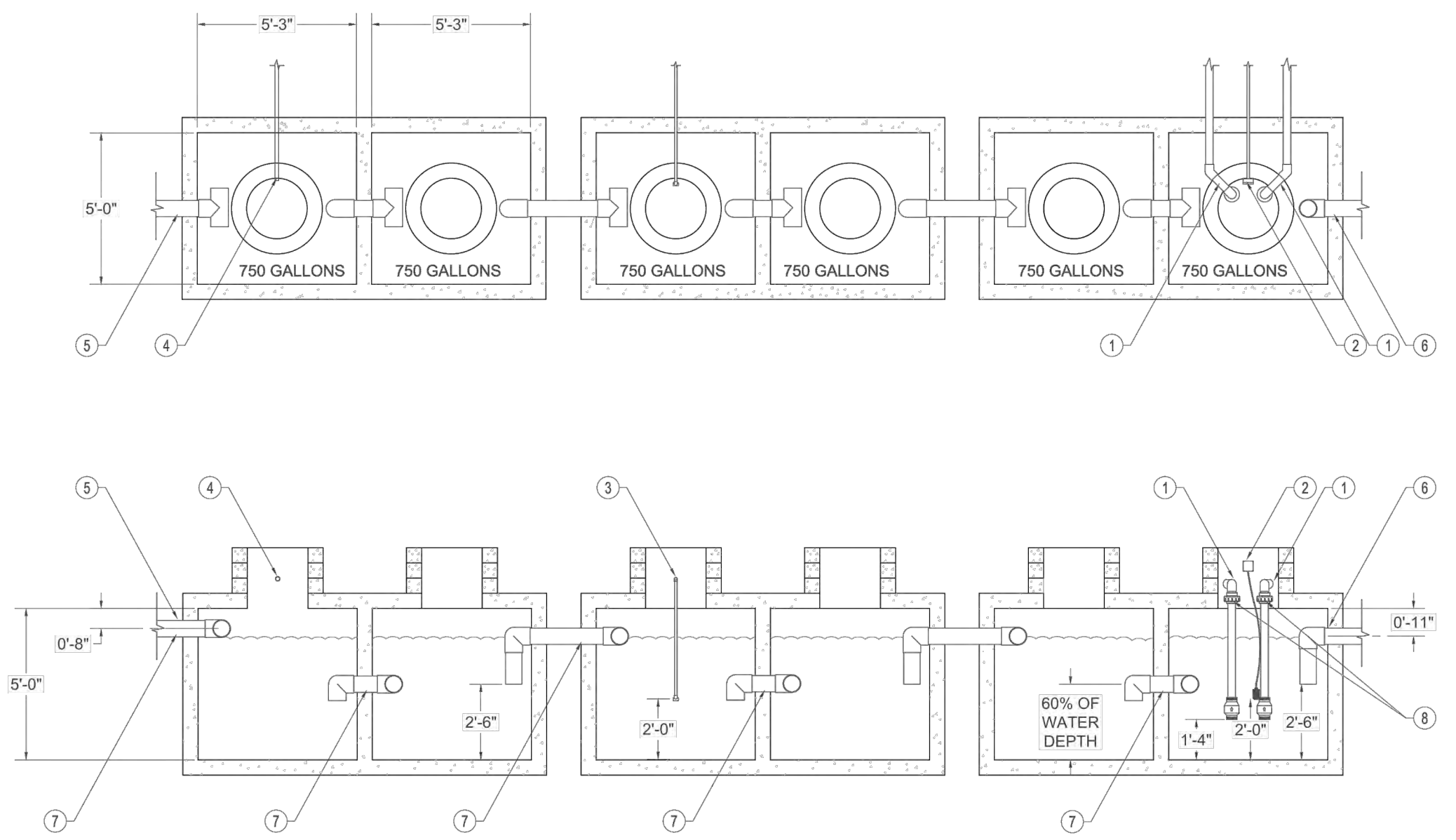
SHEET 1 OF 1 840.31

**ONSITE CIVIL GROUP**  
 ON-SITE CIVIL GROUP OF THE CAROLINAS, PLLC  
 NCBELS FIRM P-2025  
 980 BIRMINGHAM RD. SUITE 501-540, MILTON, GA 30004  
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APPROVED CONSTRUCTION PLAN DATED APRIL 14, 2021  
 PROJECT # 2020051  
 STORMWATER PERMIT # 2021004

REVISIONS		
No.	DATE	DESCRIPTION

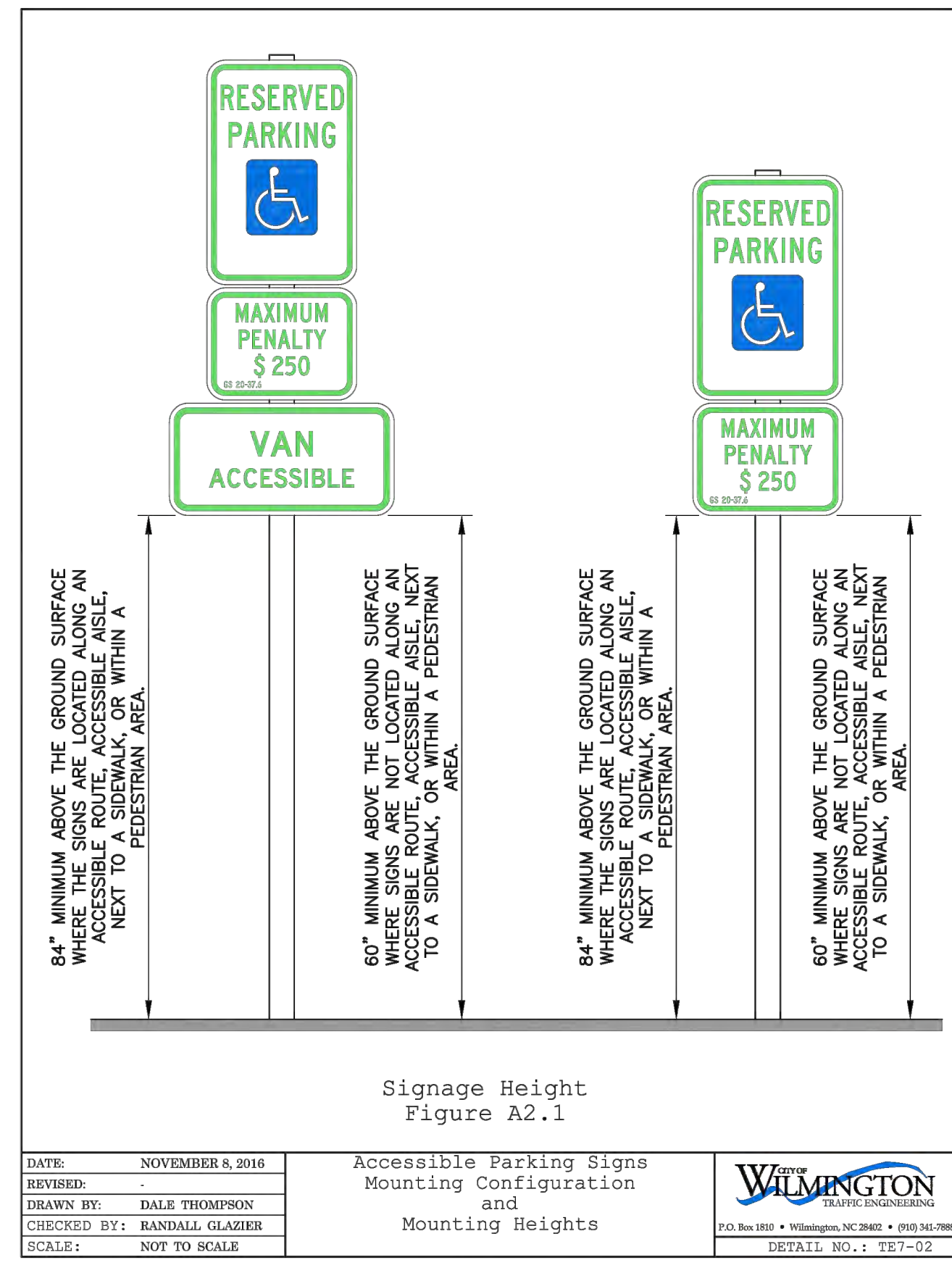
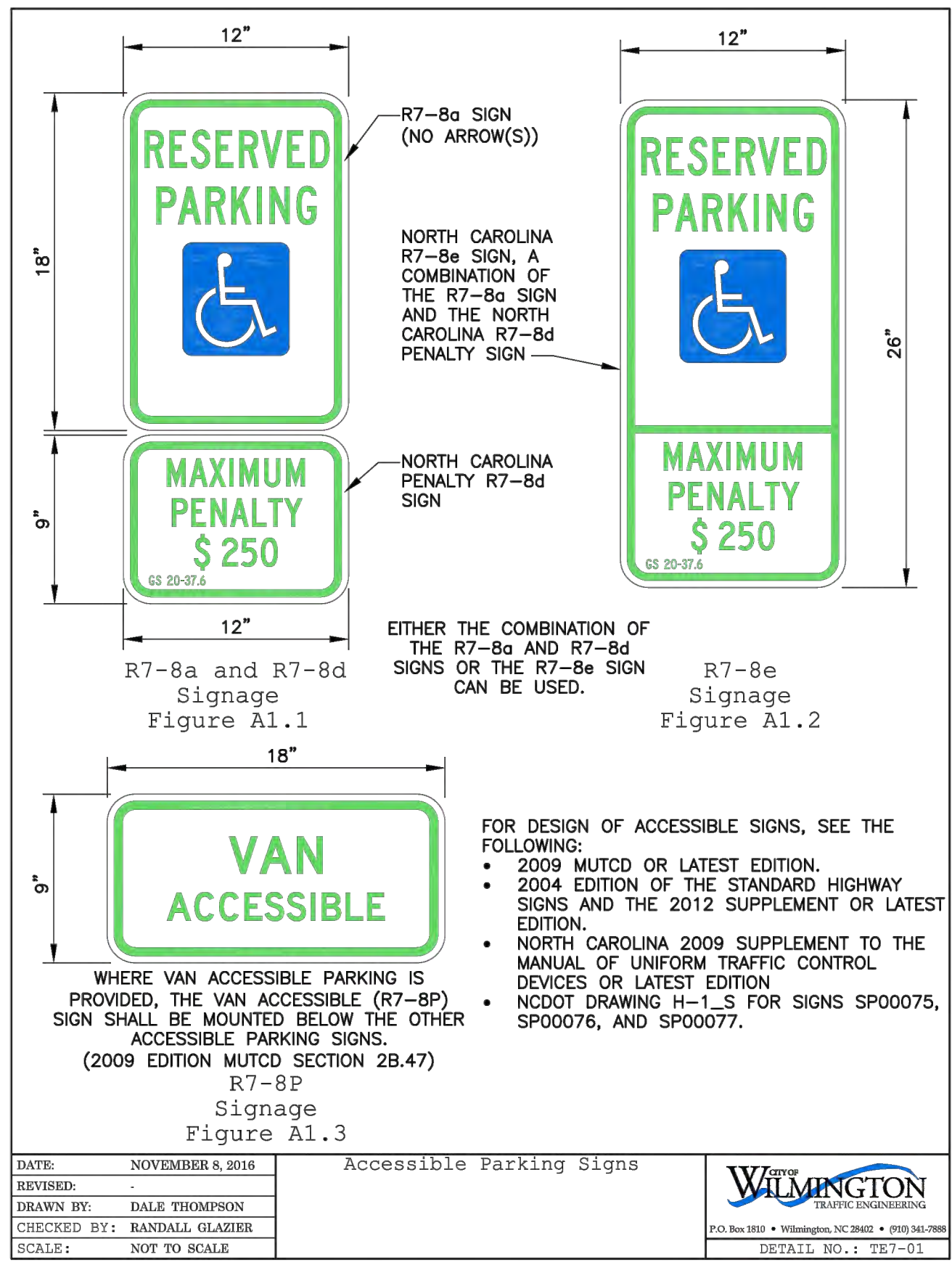


**PURCLEAN**  
 NEW WAVE INDUSTRIES  
 2315 Orange Grove Ave  
 North Highlands, CA 95660  
 TEL: 916.271.8880  
 WWW.PURCLEAN.COM

3-1.4K O3 2SUC PURWATER  
 3-1500 GALLON TANKS WITH O3 LINES 2" SUCTION

PROFESSIONAL AND CONSULTANT DESIGN DRAWING TO BE SEAL AND SIGNED BY THE REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT IN THE STATE OF NORTH CAROLINA. THE WORK IS THE PROPERTY OF NEW WAVE INDUSTRIES AND IS NOT TO BE REPRODUCED OR COPIED WITHOUT THE WRITTEN PERMISSION OF NEW WAVE INDUSTRIES.

- LEGEND:
- 2" SCH 80 PVC SUCTION LINES FOR RECLAIM WATER PUMPING STATION. QTY (2) INCLUDING ONE SPARE LINE. SUCTION LINES TO BE EQUIPPED W/ FOOT VALVES. PRESSURE TEST THE LINE FOR 24 HRS AT 30 PSI BEFORE POURING CONCRETE. PROTECT LINES FROM FREEZING.
  - WATERTIGHT JUNCTION BOX FOR LOW LEVEL FLOAT. (LOCATED ABOVE WATER LINE)
  - RECLAIM RECIRCULATION. 1" SCH. 80 PVC WITH 90 DEGREE ELBOW, TERMINATE WITH A HORIZONTAL TEE 24" FROM THE TANK FLOOR.
  - RECLAIM UNDERFLOW 1 1/2" PVC SCH. 80 WIDISTRIBUTION TEE LOCATE JUST ABOVE WATER LINE. (USE SANITARY 90'S WHENEVER POSSIBLE)
  - 6" TRENCH DRAIN FROM WASH BAY
  - 6" DISCHARGE TO SEWER.
  - 6" SCH 80 PVC CROSS OVER PIPES. INLET SIDE TO BE PROVIDED WITH A DOWNWARD FACING ELBOW AND A HORIZONTAL TEE TO PROVIDE CIRCULATION IN THE TANK.
  - 2" UNIONS LOCATED ABOVE WATER LINE.
- NOTES:
- POSITION TANKS SO THAT PLUMBING IS BELOW FROST LINES IN AREAS WHERE FREEZING MAY OCCUR.
  - PLUMBING LINES MUST BE RUN BELOW FROST LINE. LINES MAY BE RUN INTO THE SIDE OF THE TANK IF MAINWAY IS TOO CLOSE TO FROST LINE.
  - DRAWING ARE FOR REFERENCE ONLY. CONSULT WITH TANK MANUFACTURER TO IDENTIFY STANDARD CONFIGURATIONS FOR APPROVED APPLICATIONS.
  - SEAL ALL TANK PENETRATIONS TO PREVENT LEAKAGE INTO SOIL.
  - IT IS RECOMMENDED THAT A BACK FLOW PREVENTER BE INSTALLED IN APPLICATIONS THAT ARE AT RISK OF HAVING SEWAGE BACKING UP INTO THE RECLAIM TANKING SYSTEM.
  - AN ADDITIONAL SAND/OIL SEPARATOR TO BE ADDED TO TANKING CONFIGURATION PER CITY/STATE REQUIREMENTS.



CLIENT:  
 SND MAYFARE, LLC  
 943 BALDWIN PARK DR  
 WILMINGTON, NC 28411  
 CONTACT: STEPHEN UMSTEAD  
 910-262-2831  
 STEPHEN@SPASHNDASHONLINE.COM

SPLASH N DASH MAYFARE  
 1445 EASTWOOD RD  
 CITY OF WILMINGTON,  
 NEW HANOVER COUNTY  
 NORTH CAROLINA

CONSTRUCTION DETAILS

DATE: MARCH 24, 2021  
 PROJECT: 19-050

SHEET: C 803

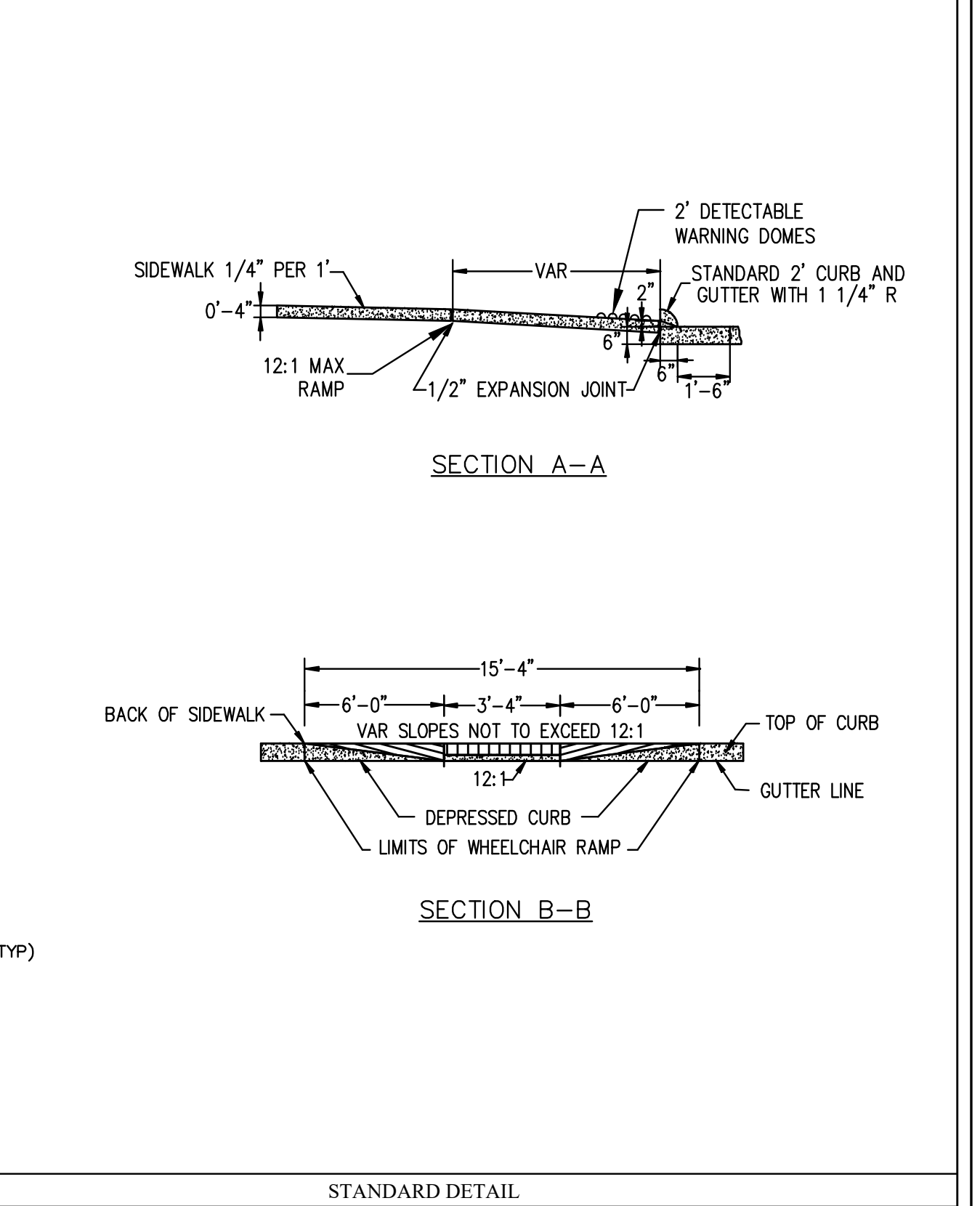
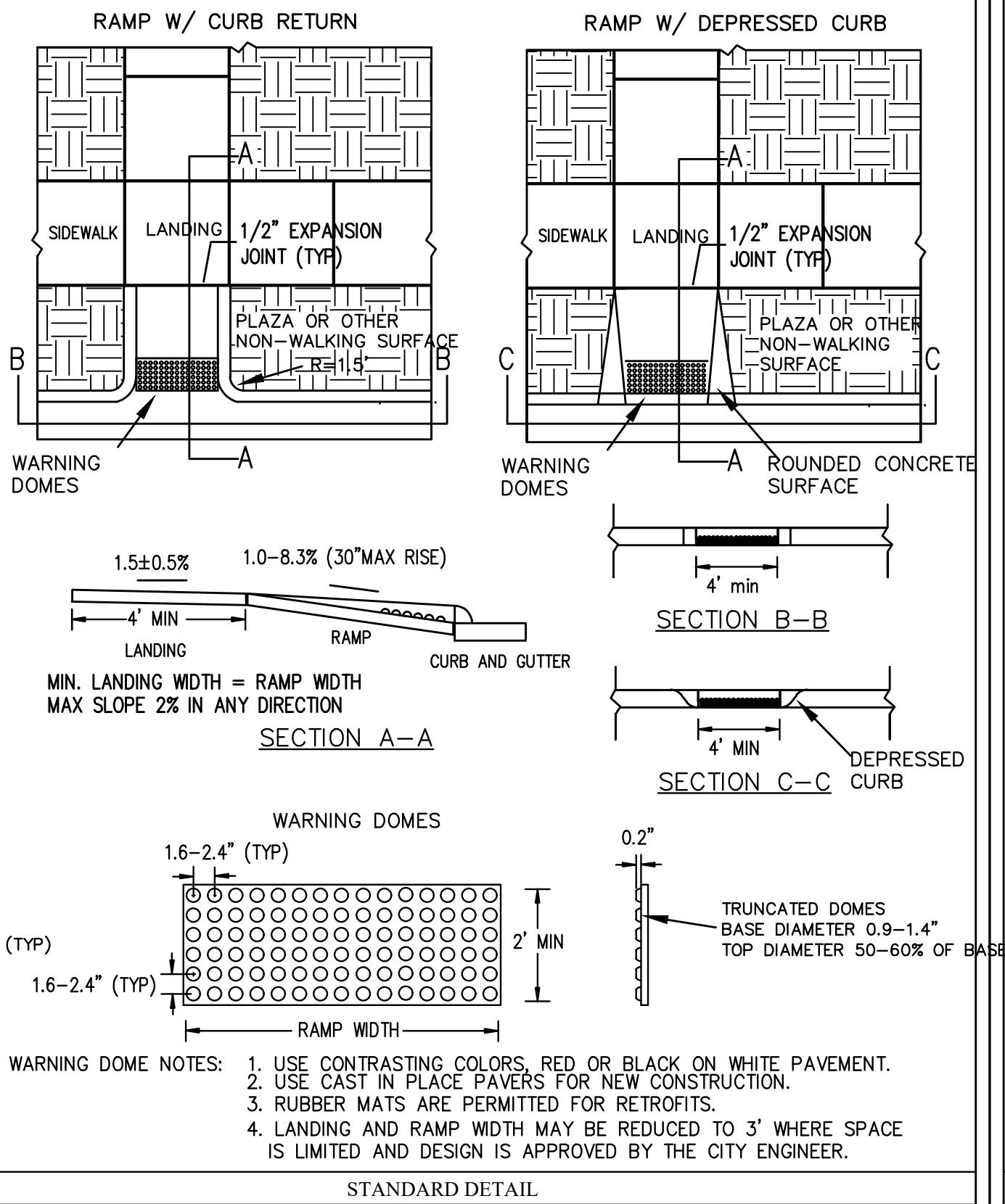
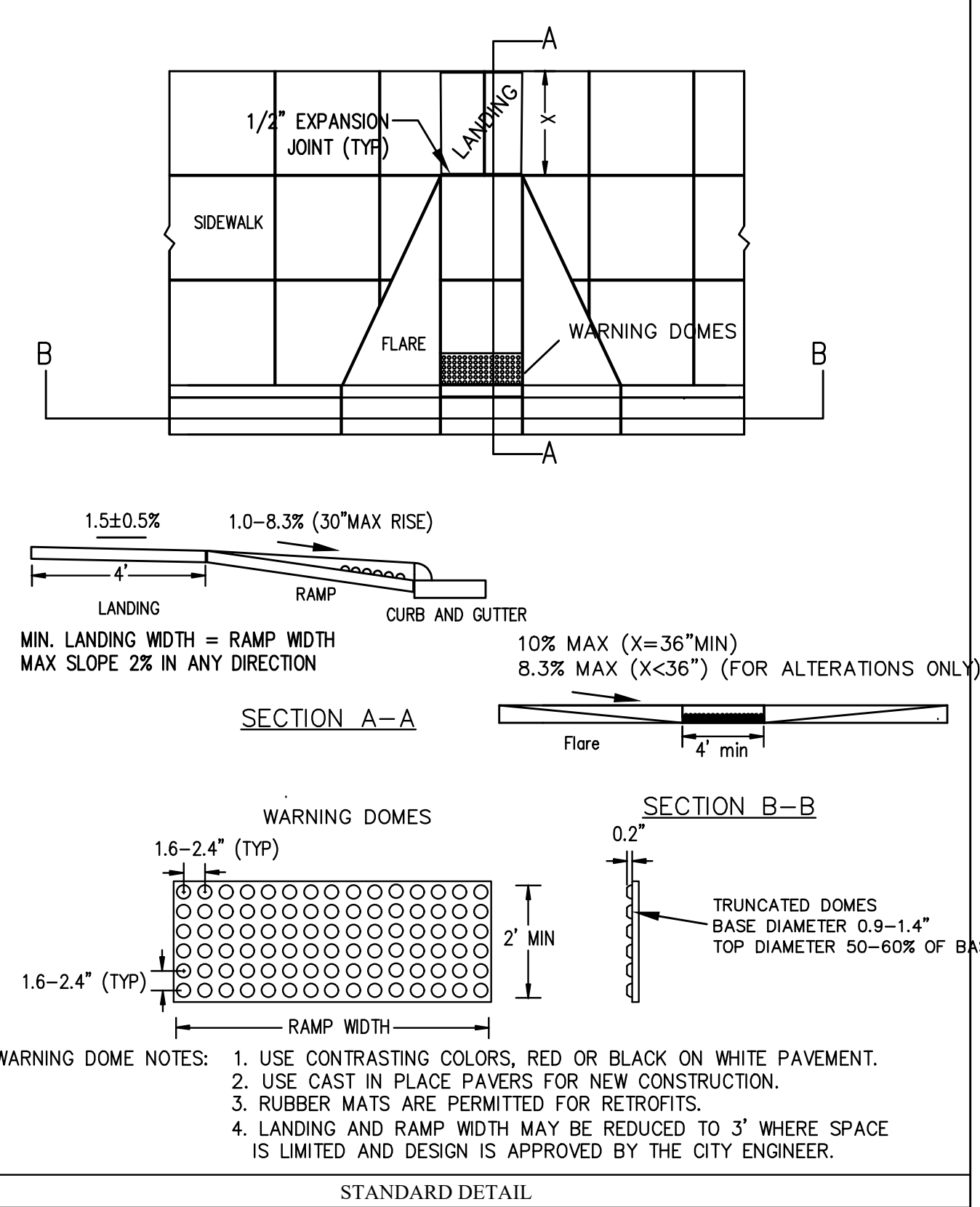
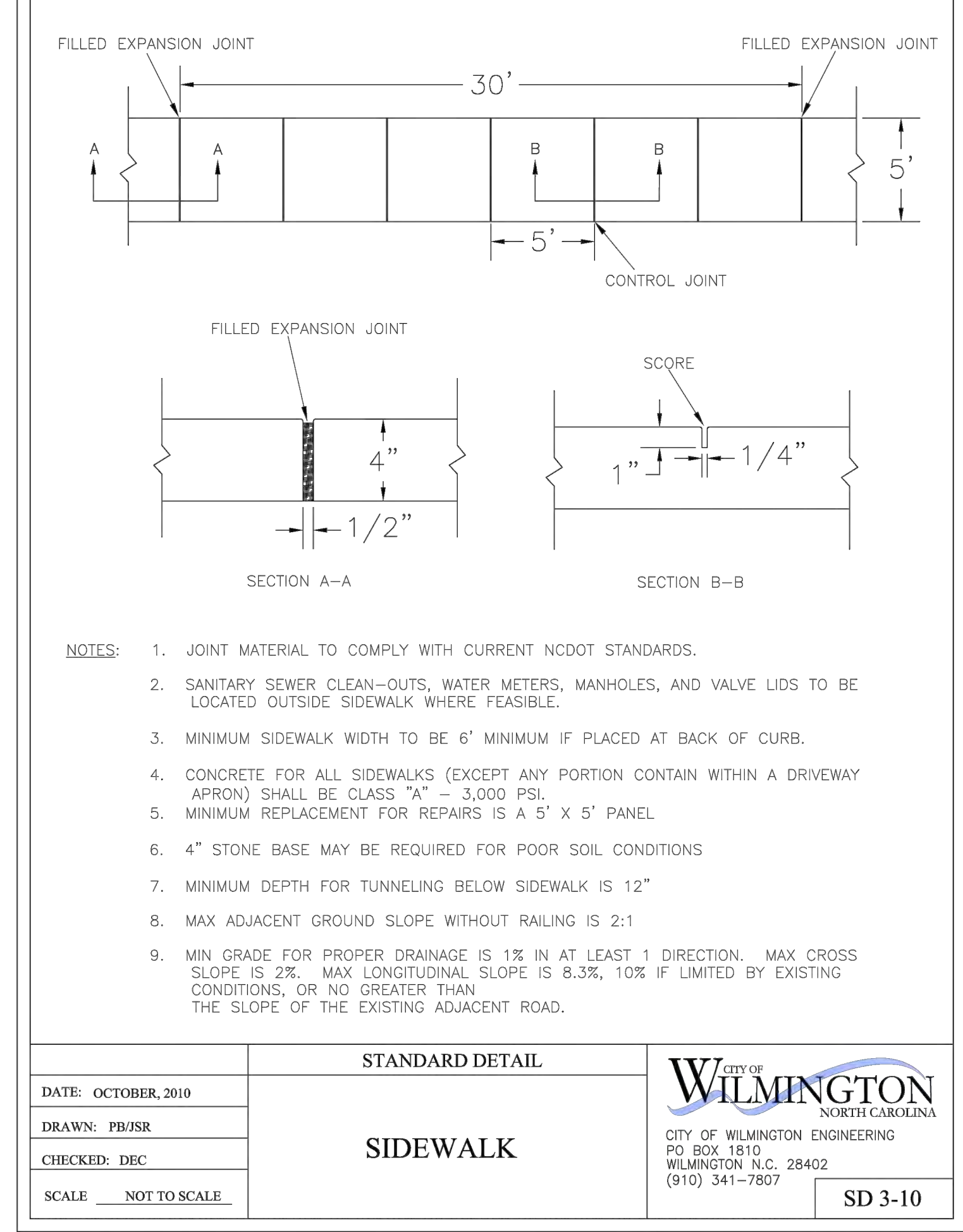
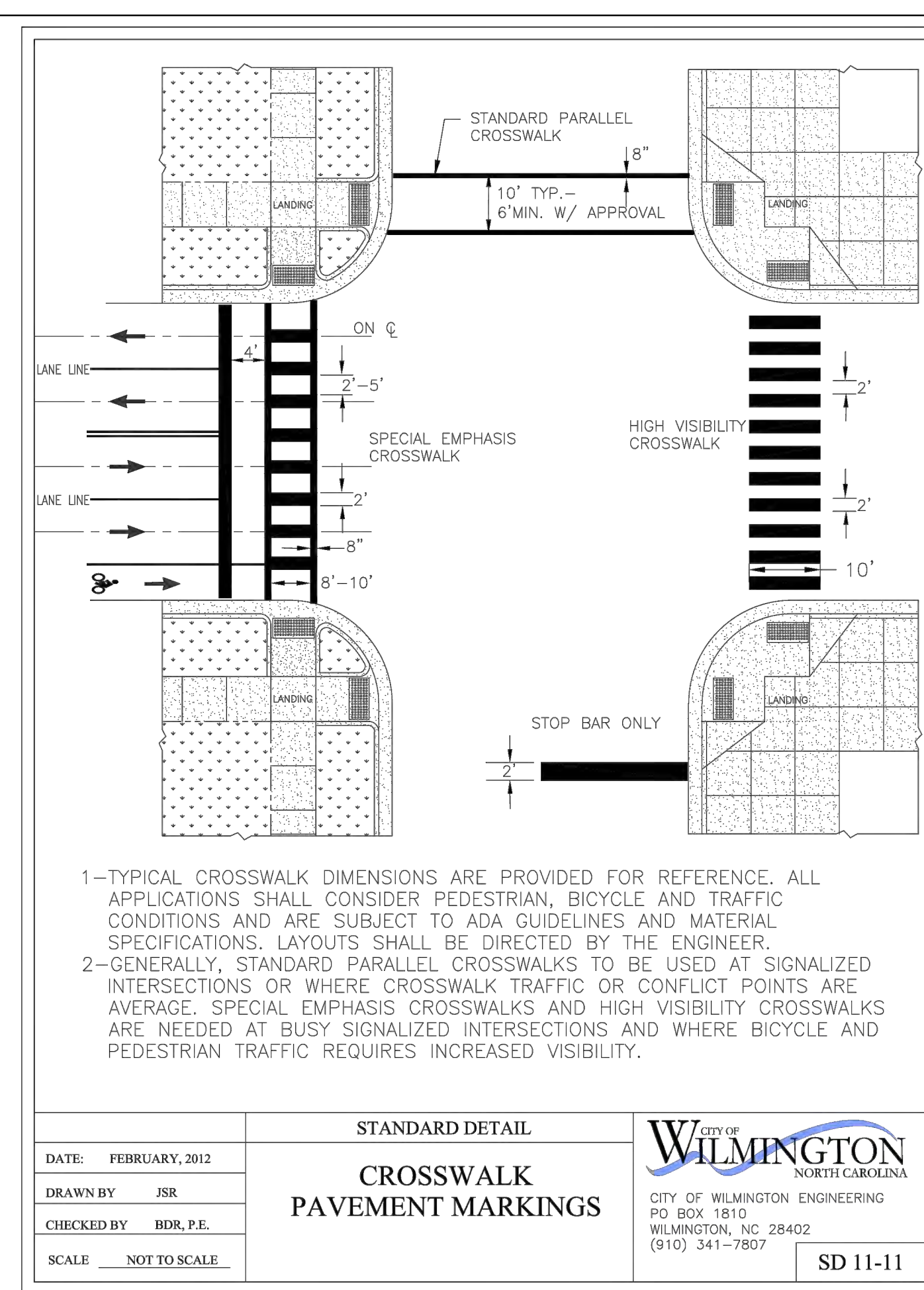
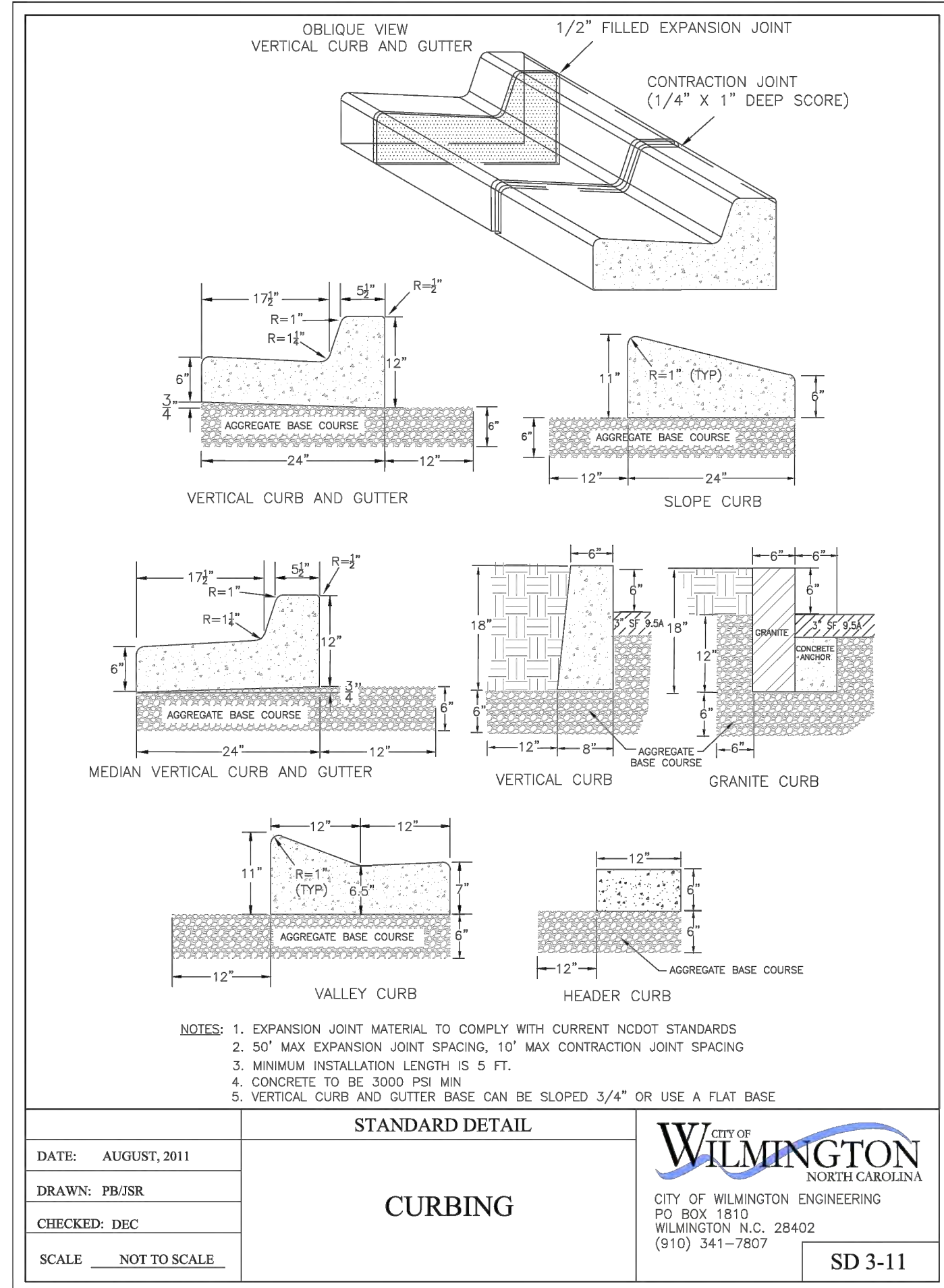
**WILMINGTON**  
 PUBLIC SERVICES • ENGINEERING DIVISION  
 APPROVED STORMWATER MANAGEMENT PLAN

APPROVED CONSTRUCTION PLAN  
 Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_  
 Traffic \_\_\_\_\_  
 Fire \_\_\_\_\_

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

24 HOUR CONTACT:  
 ED UMSTEAD  
 706-840-4988



**ONSITE CIVIL GROUP**  
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NCEBLS FIRM P-20255  
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**APPROVED CONSTRUCTION PLAN**  
DATED APRIL 14, 2021  
PROJECT # 2020051  
STORMWATER PERMIT # 2021004

City of Wilmington  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

APPROVED CONSTRUCTION PLAN	
Name	Date
Planning	_____
Traffic	_____
Fire	_____

No.	DATE	DESCRIPTION

CLIENT:  
SND MAYFAIRE, LLC  
943 BALDWIN PARK DR  
WILMINGTON, NC 28411  
CONTACT: STEPHEN UMSTEAD  
910-262-2831  
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1445 EASTWOOD RD  
CITY OF WILMINGTON,  
NEW HANOVER COUNTY  
NORTH CAROLINA

CONSTRUCTION DETAILS

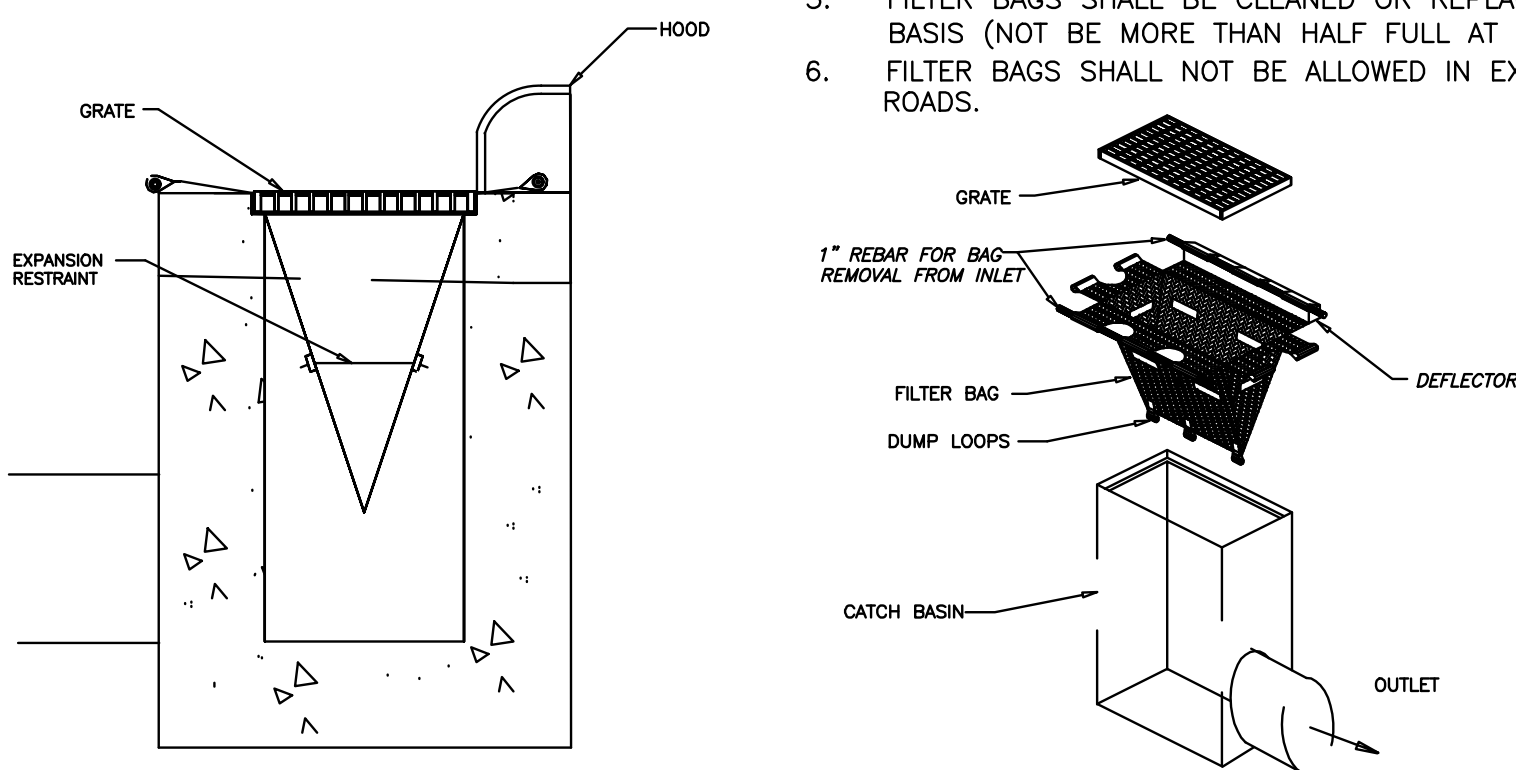
24 HOUR CONTACT:  
ED UMSTEAD  
706-840-4988

DATE: MARCH 24, 2021  
PROJECT: 19-050

SHEET: C 804

**NOTES**

1. INLET MAINTENANCE SHALL BE DOCUMENTED IN PROJECT LOG BOOK.
2. FILTER TYPES SHALL BE APPROVED BY THE COUNTY INSPECTOR PRIOR TO INSTALLATION.
3. FILTER BAGS MAY BE REMOVED WHEN SITE IS STABILIZED AT THE DIRECTION OF THE ENGINEER.
4. FILTER BAGS SHALL BE REMOVED PRIOR TO STREET ACCEPTANCE.
5. FILTER BAGS SHALL BE CLEANED OR REPLACED ON A REGULAR BASIS (NOT BE MORE THAN HALF FULL AT ANY TIME).
6. FILTER BAGS SHALL NOT BE ALLOWED IN EXISTING CITY OR NCDOT ROADS.



SECTION

INSTALLATION

NOT TO SCALE

**CATCH BASIN INLET PROTECTION**

**FOR LATE WINTER AND EARLY SPRING:**

**SEEDING MIXTURE:**  
 RYE (GRAIN) - 120 LB/ACRE  
 ANNUAL LESPEDEZA (KOBÉ) - 50 LB/ACRE  
 (OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE)

**SEEDING DATES:**  
 JAN. 1 - MAY 1

**FOR SUMMER:**

**SEEDING MIXTURE:**  
 GERMAN MILLET - 40 LB/ACRE  
 (A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE)

**SEEDING DATES:**  
 MAY 1 - AUG. 15

**FOR FALL:**

**SEEDING MIXTURE:**  
 RYE (GRAIN) - 120 LB/ACRE

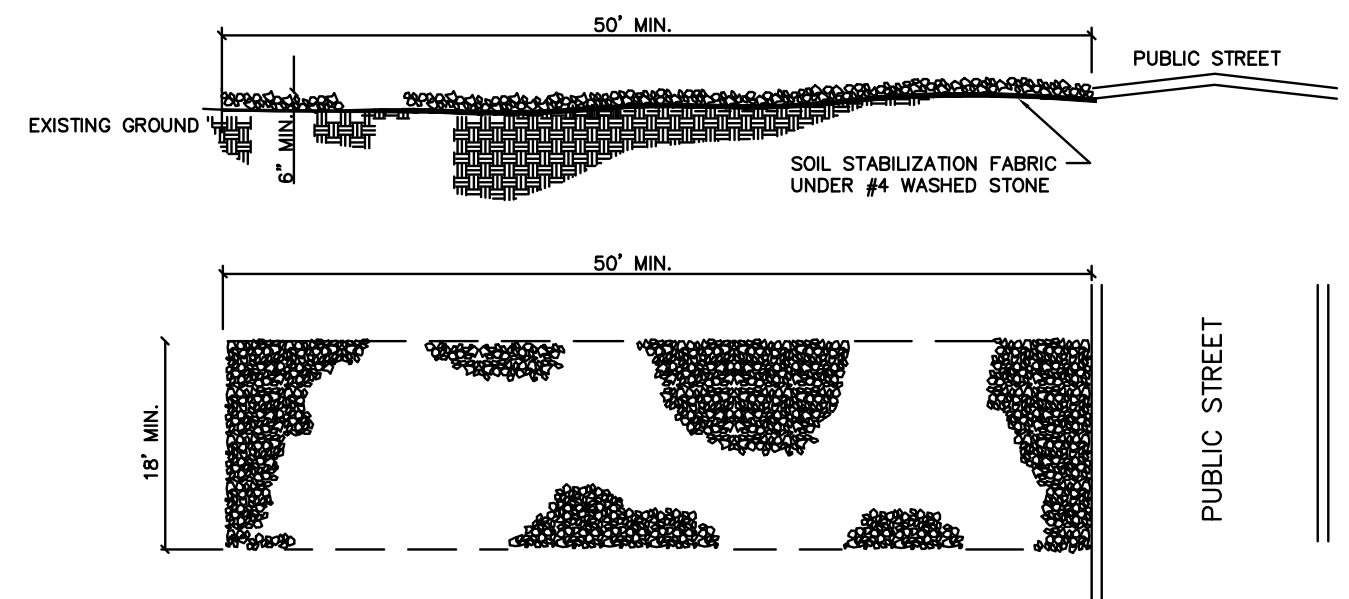
**SEEDING DATES:**  
 AUG. 15 - DEC. 30

FOR ADDITIONAL INFORMATION, REFER TO NCDENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL (ESCPDM), SECTION 6.10. FOR PERMANENT SEEDING SPECIFICATIONS, INCLUDING SEED BED PREP, SEASONAL LIMITATIONS, FOR SEEDING OPERATIONS, THE KINDS OF GRADES OF FERTILIZERS, THE KINDS OF SEED, AND THE RATES OF APPLICATION OF LIME, FERTILIZER, AND SEED, REFER TO NCDENR ESCPDM SECTION 6.11

**TEMPORARY SEEDING SCHEDULE**

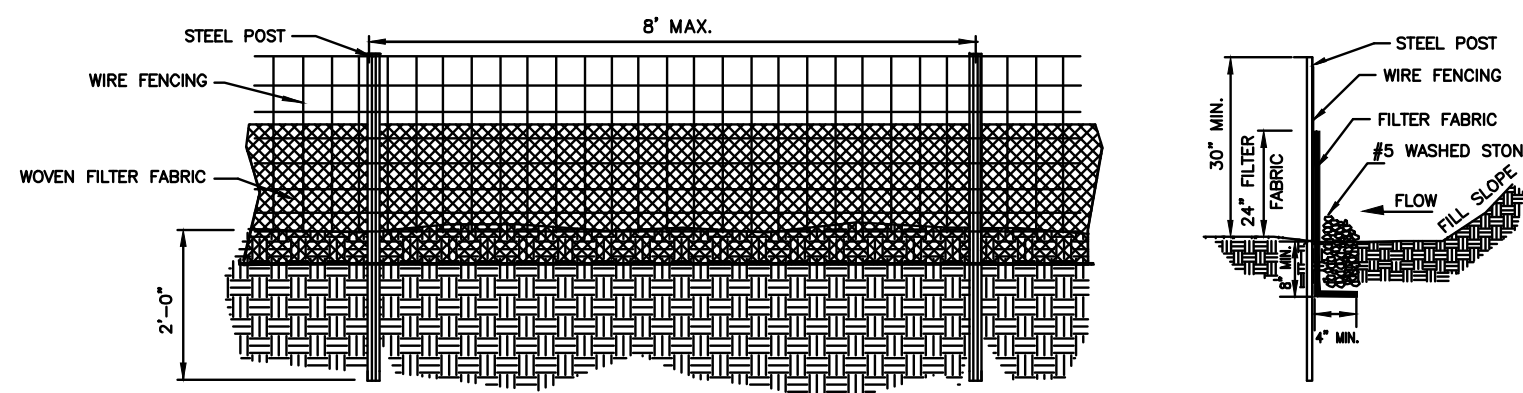
**NOTES:**

1. A STABILIZED ENTRANCE PAD OF #4 WASHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL ENTER OR LEAVE THE CONSTRUCTION SITE ONTO A PUBLIC STREET.
2. FILTER FABRIC OR COMPACTED CRUSHER RUN STONE SHALL BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
4. ANY SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
5. WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.



NOT TO SCALE

**STABILIZED CONSTRUCTION ENTRANCE**



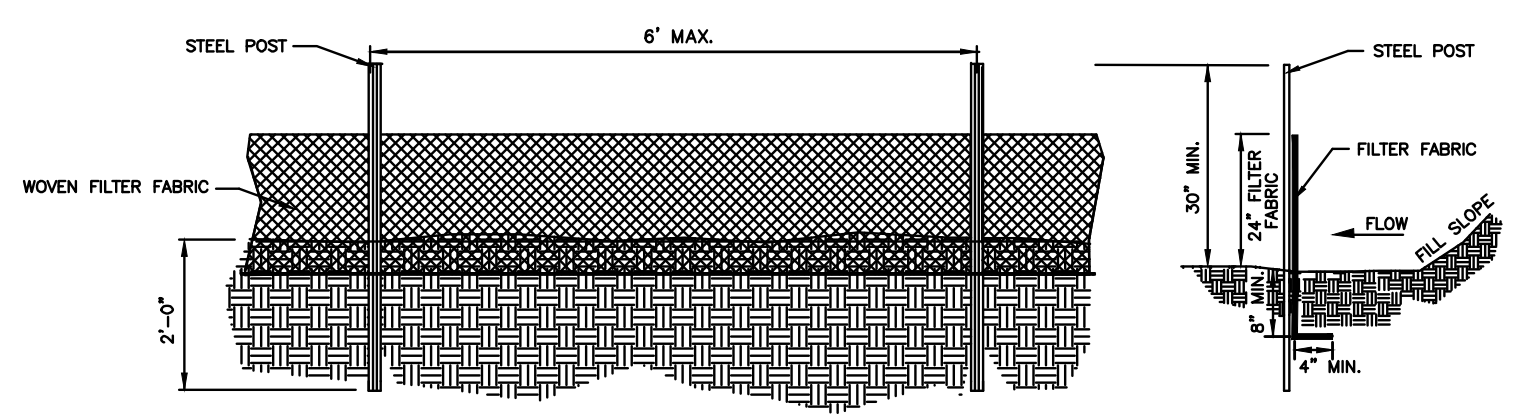
**GENERAL NOTES:**

1. WIRE FENCING SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
2. WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
3. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
4. WIRE FENCING SHALL BE AT LEAST #10 GAGE WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
5. TURN SILT FENCE UP SLOPE AT ENDS.
6. WIRE MESH SHALL BE MIN. 13 GAGE WITH MAXIMUM 12" OPENINGS.
7. WIRE AND WASHED STONE IS REQUIRED TO BE SHOWN ON PLANS AT THE TOE OF SLOPES GREATER THAN 10 FEET VERTICAL (2:1 SLOPE).
8. ORANGE SAFETY FENCE IS REQUIRED AT BACK OF SILT FENCE WHEN GRADING IS ADJACENT TO SWIM BUFFERS, STREAMS OR WETLANDS (REFER TO SWIM BUFFER GUIDELINES). THE COLOR ORANGE IS RESERVED FOR VISUAL IDENTIFICATION OF ENVIRONMENTALLY SENSITIVE AREAS.
9. DRAINAGE AREA CAN NOT BE GREATER THAN 1/4 ACRE PER 100 FT. OF FENCE.
10. SLOPE LENGTHS CAN NOT EXCEED CRITERIA SHOWN IN TABLE 6.62A NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
11. DO NOT INSTALL SEDIMENT FENCE ACROSS STREAMS, DITCHES, WATERWAYS OR OTHER AREAS OF CONCENTRATED FLOW.

**MAINTENANCE NOTES:**

1. FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

**HIGH HAZARD TEMPORARY SILT FENCE**



**GENERAL NOTES:**

1. WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
2. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
3. TURN SILT FENCE UP SLOPE AT ENDS.
4. ORANGE SAFETY FENCE IS REQUIRED AT BACK OF SILT FENCE WHEN GRADING IS ADJACENT TO SWIM BUFFERS, STREAMS OR WETLANDS (REFER TO SWIM BUFFER GUIDELINES). THE COLOR ORANGE IS RESERVED FOR VISUAL IDENTIFICATION OF ENVIRONMENTALLY SENSITIVE AREAS.
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**MAINTENANCE NOTES:**

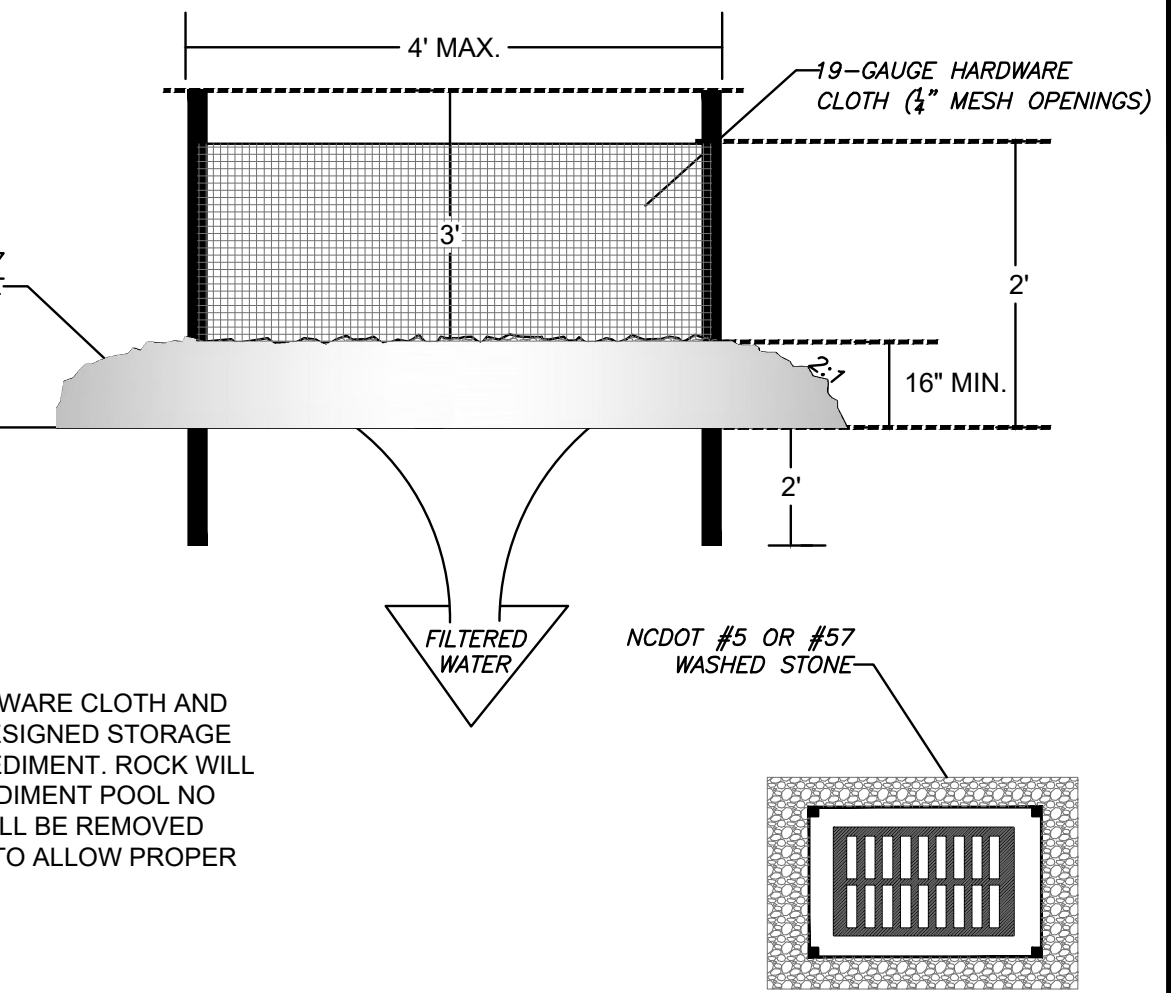
1. FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH APPROX. HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

**TEMPORARY SILT FENCE**

**GENERAL NOTES:**

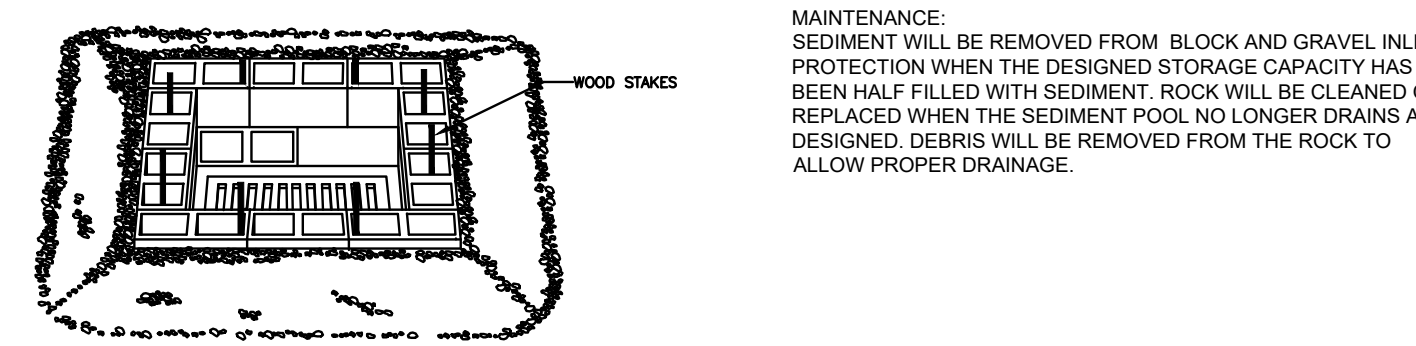
1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
2. DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
3. SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
4. PLACE CLEAN GRAVEL (NC DOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
6. COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUND COVER.

**MAINTENANCE:**  
 SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE.

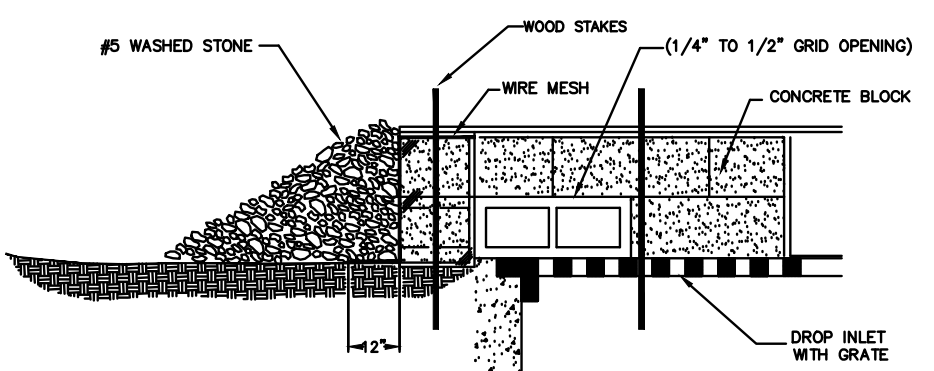


NOT TO SCALE

**HARDWARE CLOTH AND GRAVEL INLET PROTECTION**



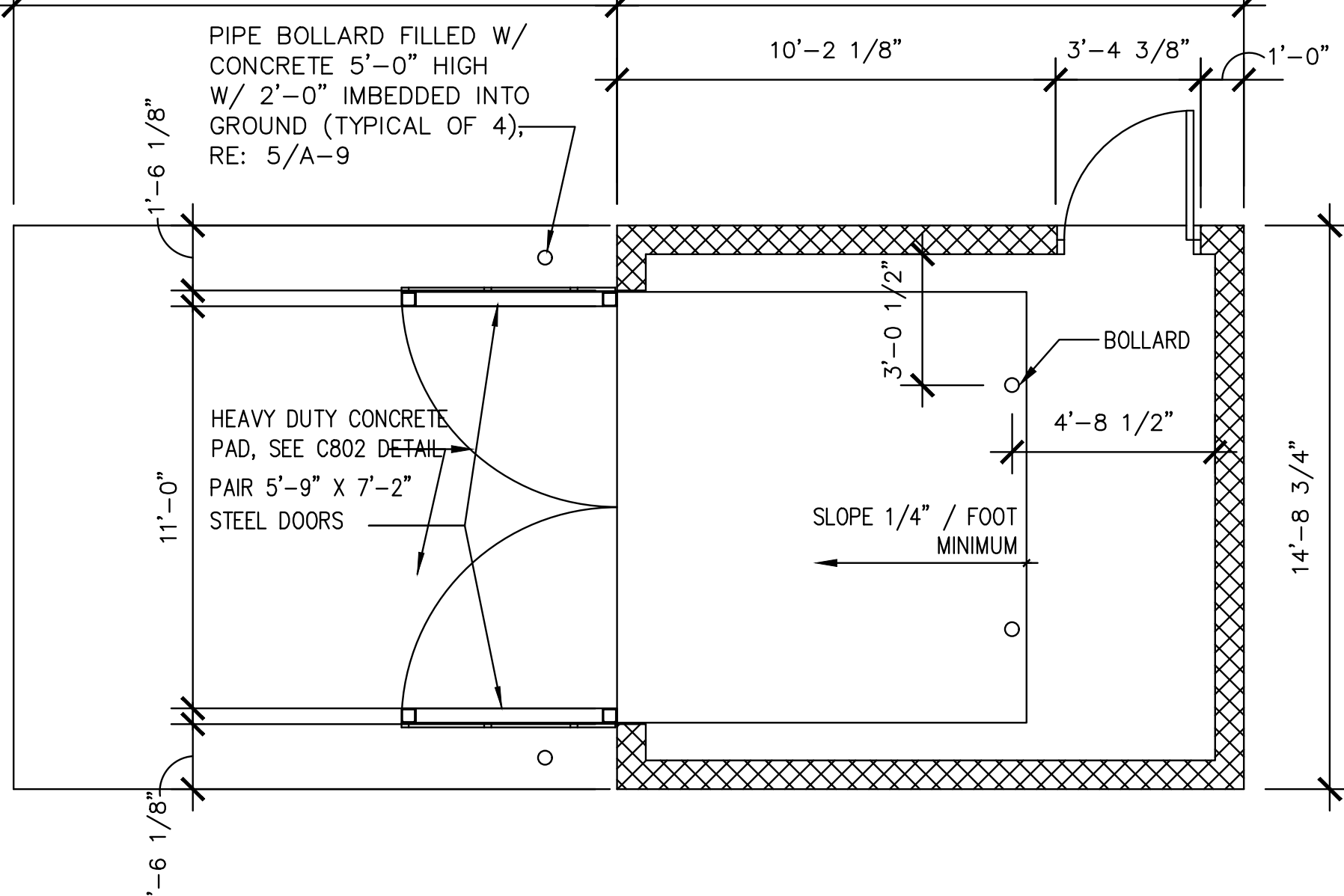
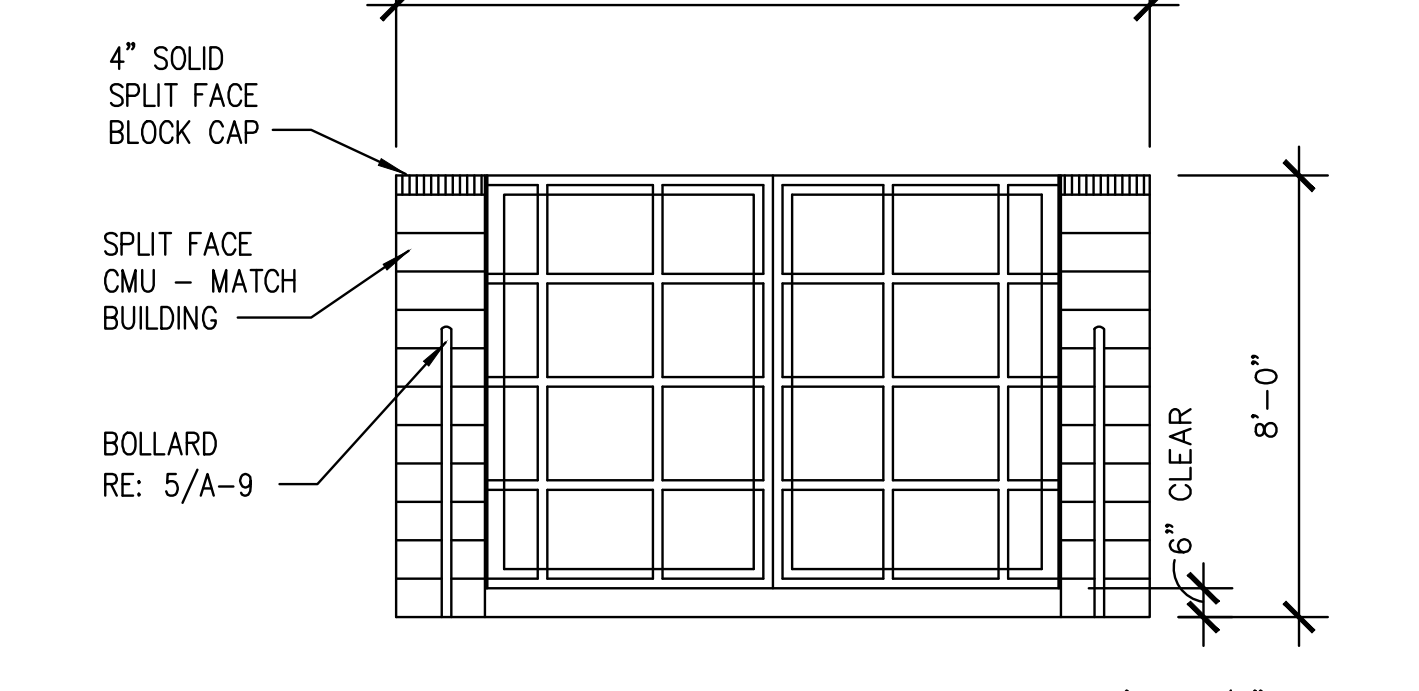
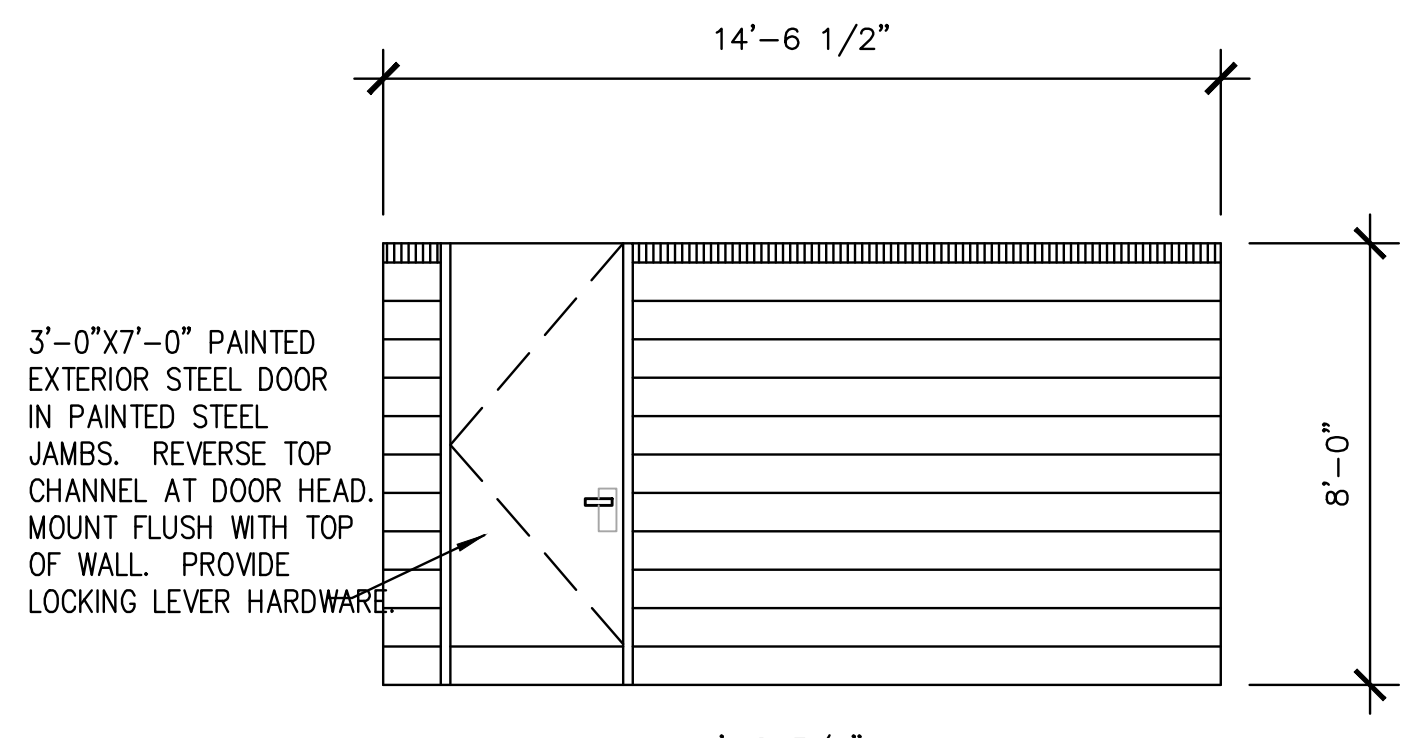
**MAINTENANCE:**  
 SEDIMENT WILL BE REMOVED FROM BLOCK AND GRAVEL INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK TO ALLOW PROPER DRAINAGE.



**SPECIFIC APPLICATION:**  
 THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

**BLOCK AND GRAVEL STONE INLET PROTECTION**

NOT TO SCALE



**DUMPSTER ENCLOSURE DETAIL N.T.S.**

NOTE: DUMPSTER ENCLOSURE DETAIL TAKEN FROM ARCHITECTURAL PLANS AND ARE SHOWN FOR REFERENCE ONLY. REFER TO ARCH AND STRUCTURAL PLANS FOR EXACT DETAILS

**24 HOUR CONTACT:**  
 ED UMSTEAD  
 706-840-4988

APPROVED CONSTRUCTION PLAN  
 Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Planning: \_\_\_\_\_  
 Traffic: \_\_\_\_\_  
 Etc: \_\_\_\_\_  
 Permit #: \_\_\_\_\_  
 APPROVED CONSTRUCTION PLAN  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN

**ON SITE CIVIL GROUP**  
 ON-SITE CIVIL GROUP OF THE CAROLINAS, PLLC  
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 APPROVED CONSTRUCTION PLAN  
 DATED APRIL 14, 2021  
 PROJECT # 2020051  
 STORMWATER PERMIT #2021004

**REVISIONS**

No.	DATE	DESCRIPTION

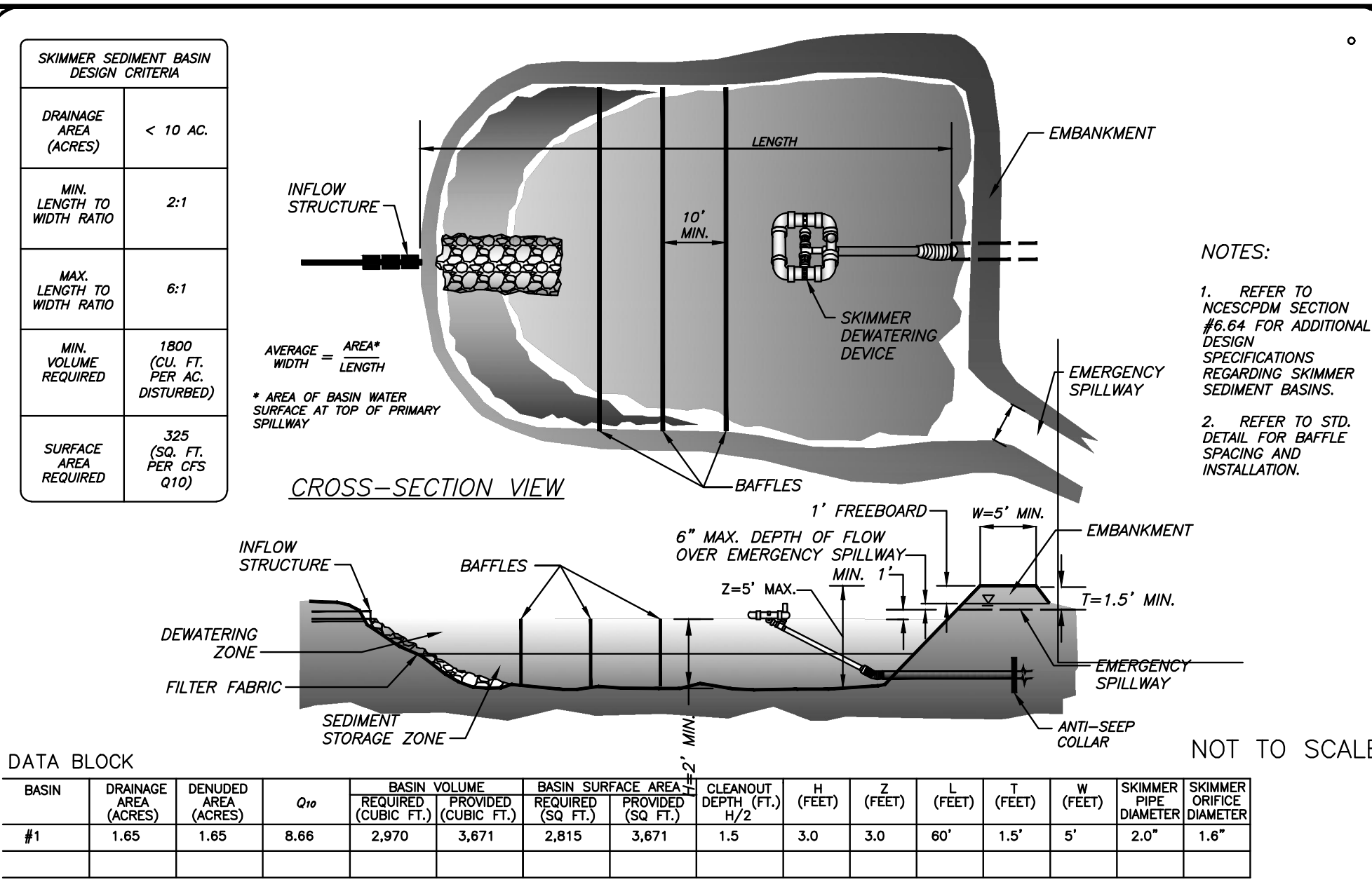
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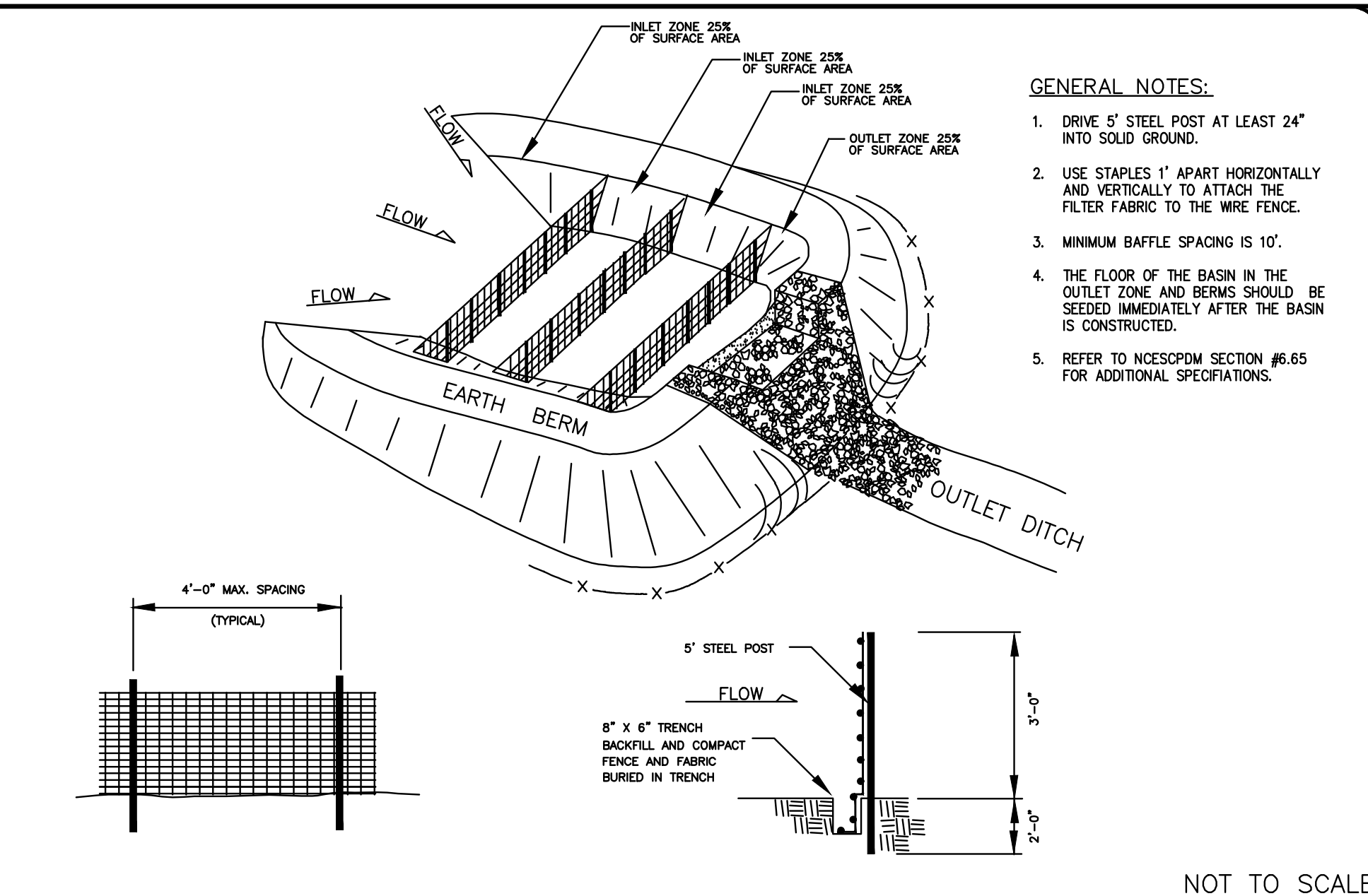
**CONSTRUCTION DETAILS**

DATE: MARCH 24, 2021  
 PROJECT: 19-050

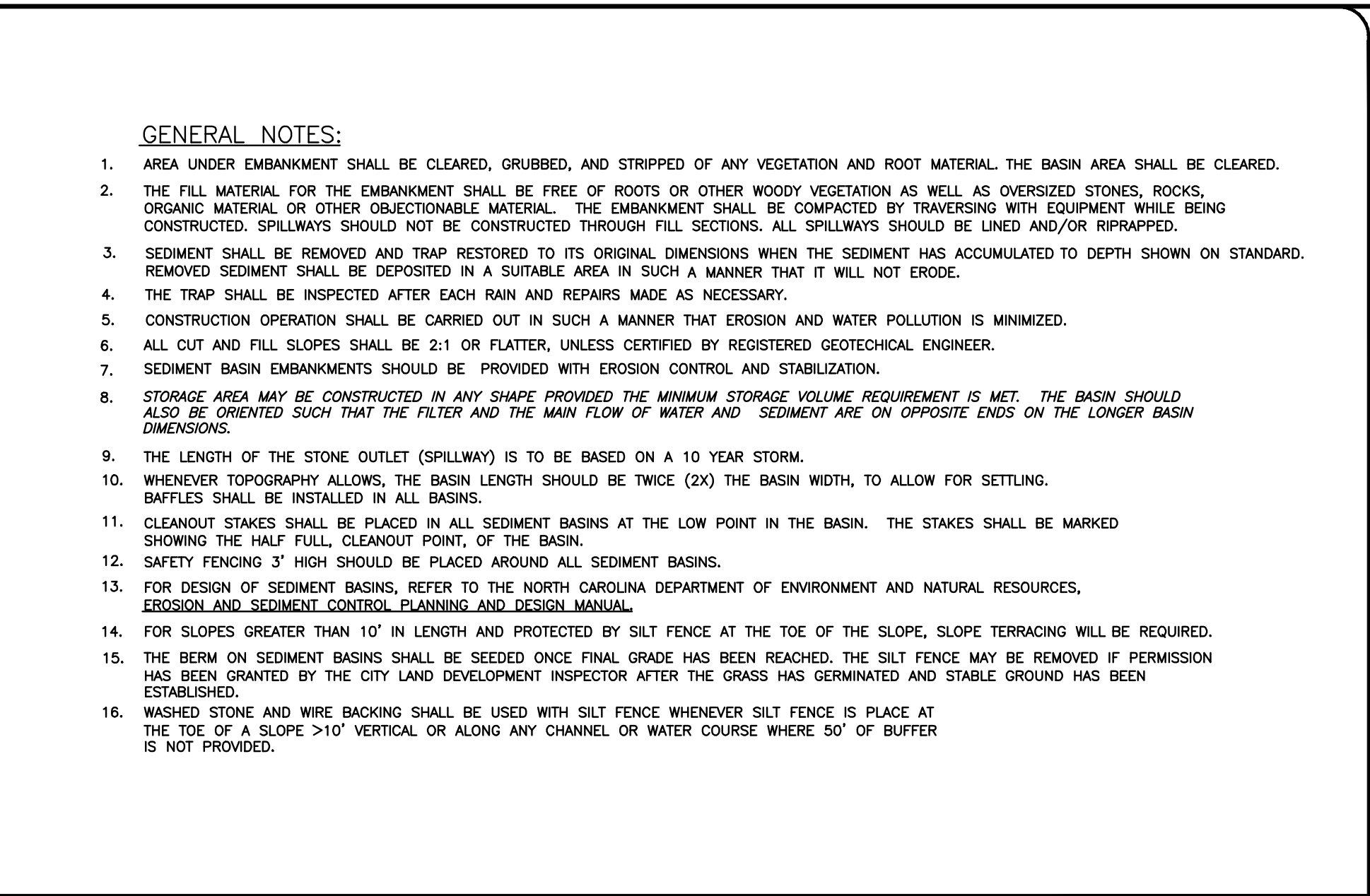
SHEET: **C 805**



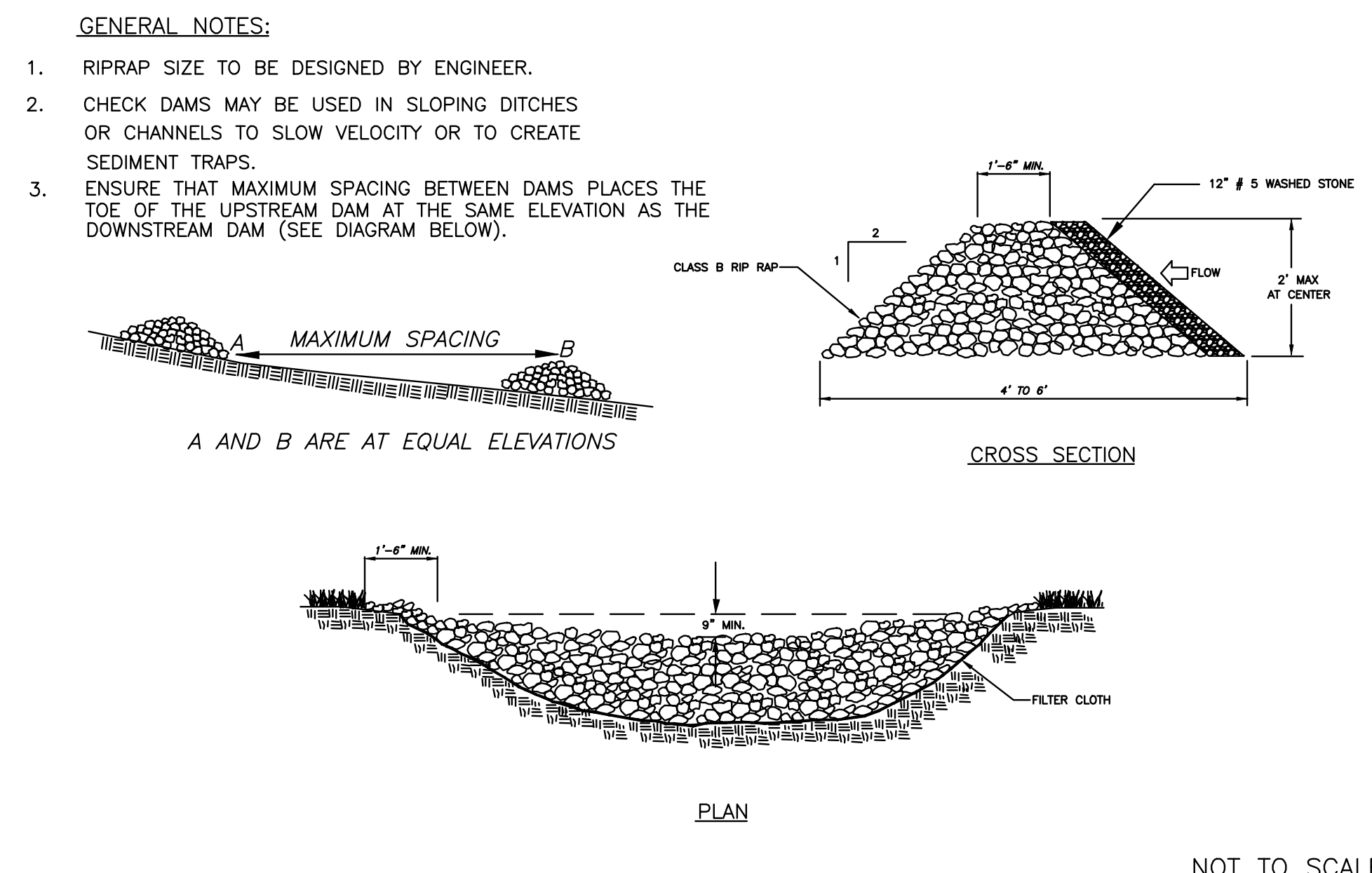
SKIMMER SEDIMENT BASIN



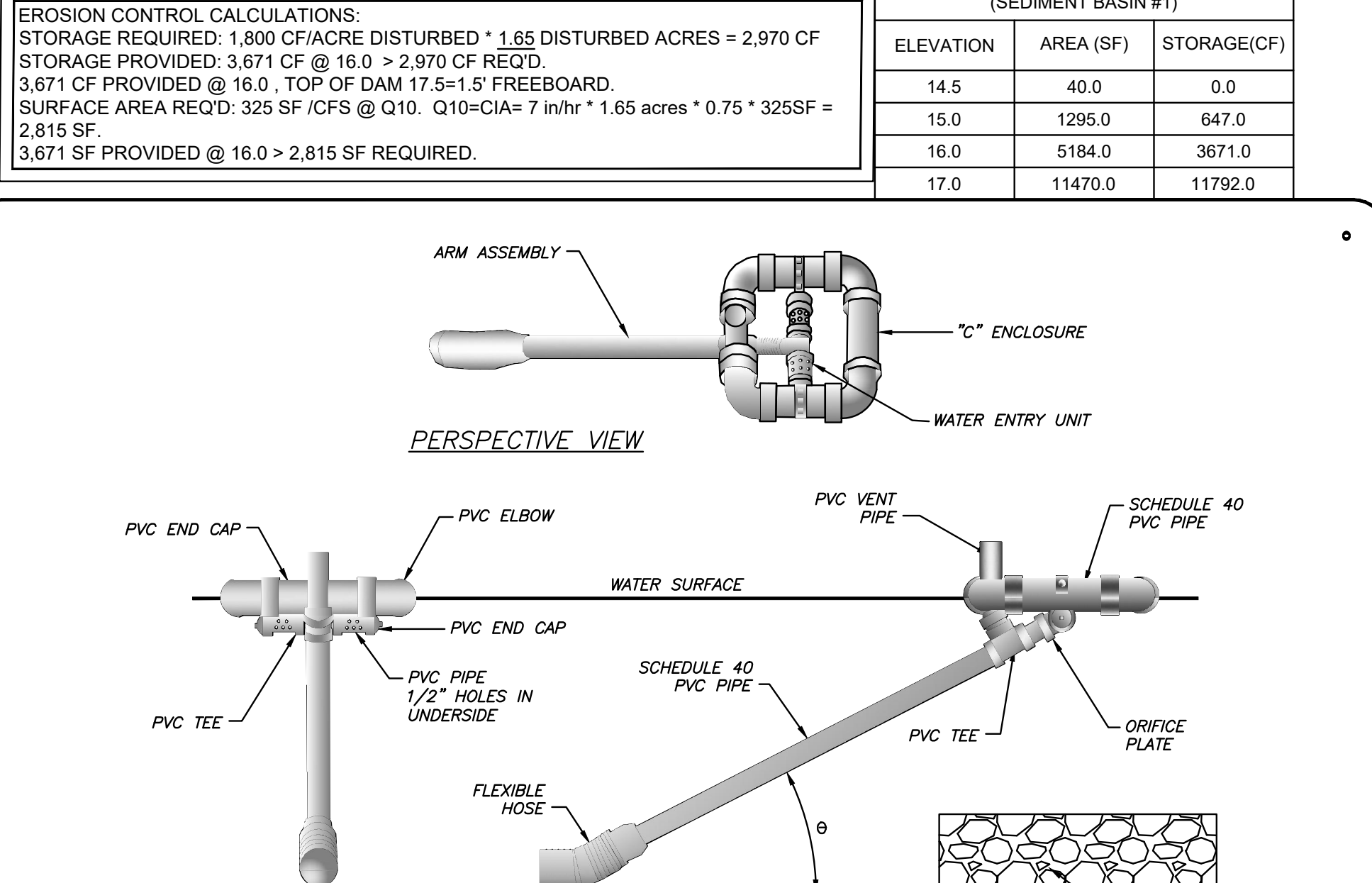
BAFFLE INSTALLATION



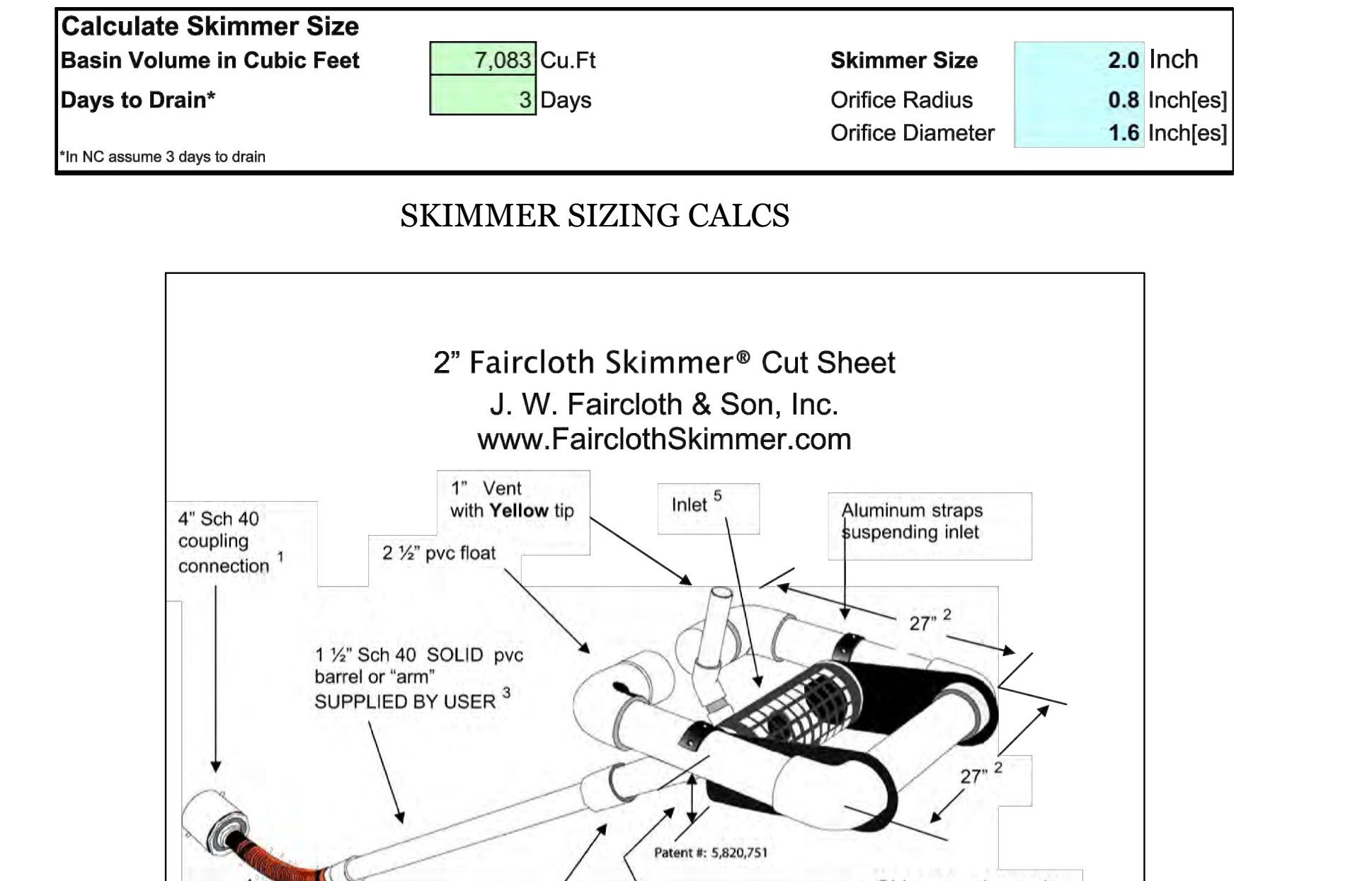
GENERAL NOTES--SEDIMENT BASINS



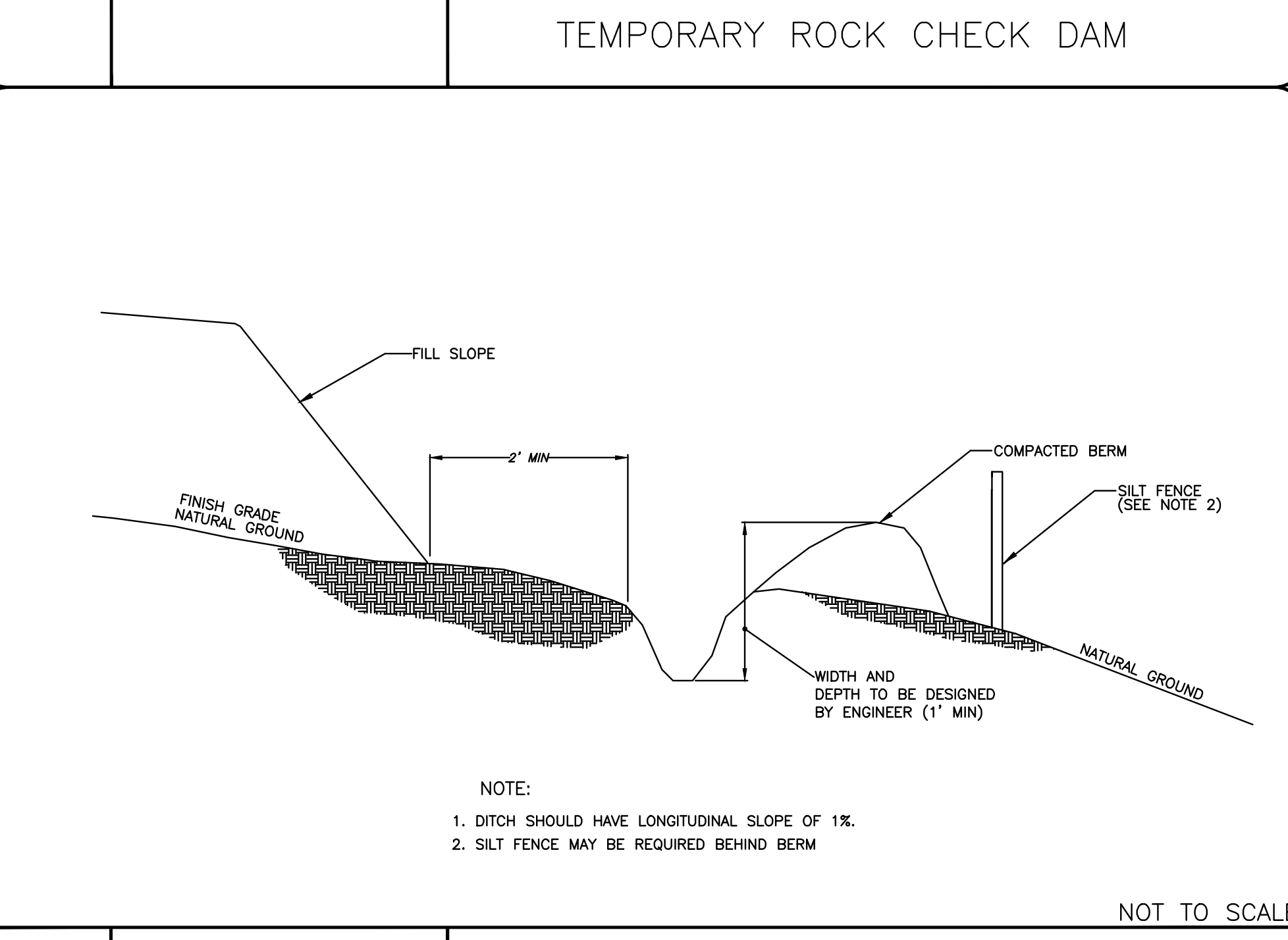
TEMPORARY ROCK CHECK DAM



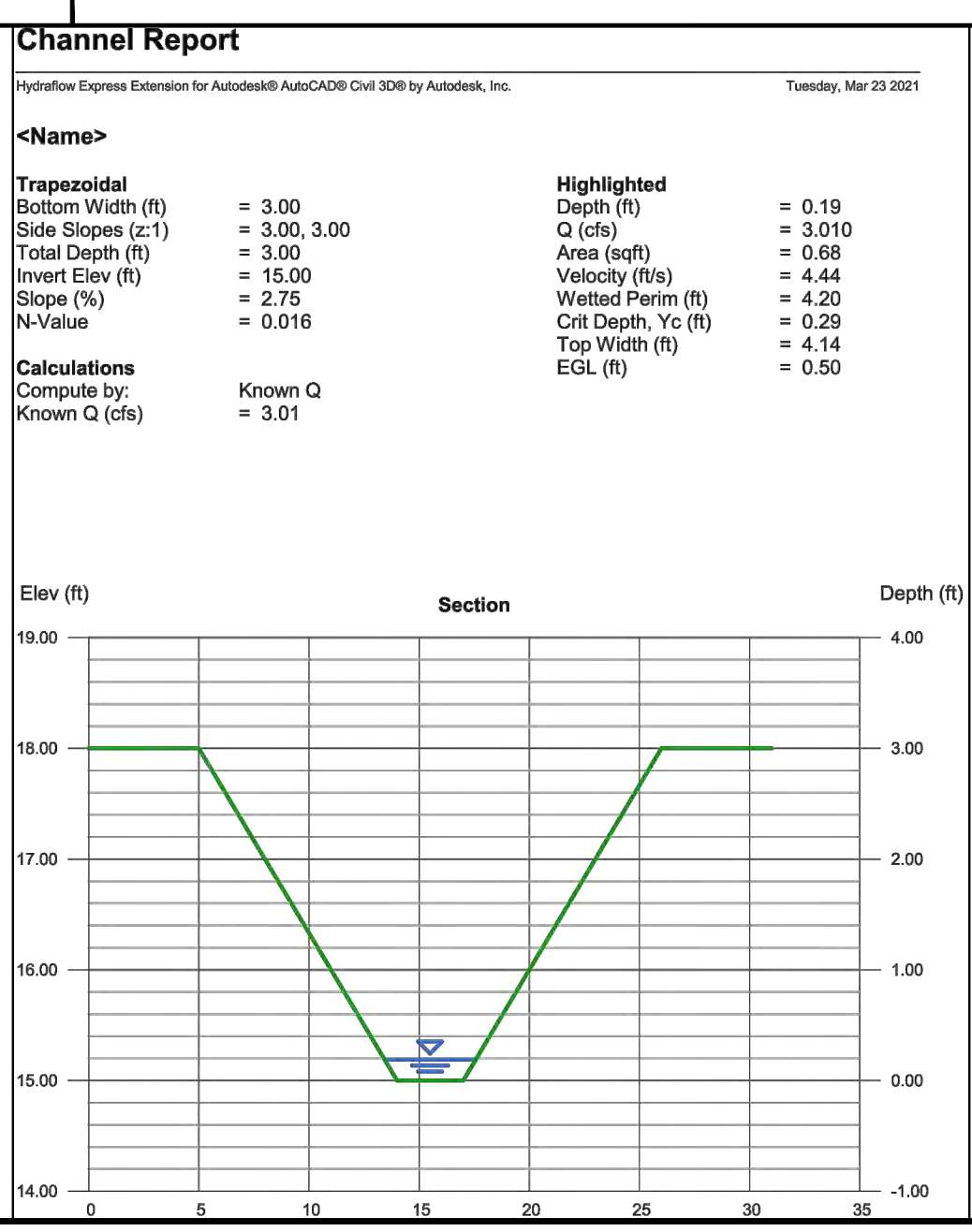
SKIMMER



- Skimmer can be attached to a straight 4" sch 40 pipe through the dam but the pipe may need to be anchored to the bottom at the connection so it is secure. Coupling can be removed and hose attached to outlet using the threaded 2" fitting. Typical methods used: on a metal structure a steel stubout welded on the side at the bottom side with a 2" threaded coupling or reducers; on a concrete structure with a hole or orifice at the bottom, use a steel plate with a hole cut in it and coupling welded to it that will fit over the hole in the concrete and bolted to the structure with sealant; grout a 4" pvc pipe in a hole in the concrete to connect the skimmer.
- Dimensions are approximate, not intended as plans for construction.
- Barrel (solid, not foam core pipe) should be 1.4 times the depth of water with a minimum length of 6' so the inlet can be pulled to the side for maintenance. If more than 8' long weight may have to be added to inlet to counter the increased buoyancy.
- Inlet tapers down from 2" maximum inlet to a 1 1/2" barrel and hose. Barrel is smaller to reduce buoyancy and tendency to lift inlet but is sufficient for flow through inlet because of slope. The inlet orifice can be reduced using the plug and cutter provided to control the outflow rate.
- Inlet is 4" pipe between the straps with aluminum screen door for access to the inlet and orifice inside.
- Capacity 3,283 cubic feet per day maximum with 2" inlet and 2" head. Inlet can be reduced by installing a smaller orifice using the plug and cutter provided to adjust flow rate for the particular basin volume and drawdown time required.
- Shipped assembled. User glues inlet extension and barrel, installs vent, cuts orifice in plug and attaches to outlet pipe or structure. Includes flexible hose, rope, orifice cutter, etc.



TEMPORARY SILT DIVERSION BERM



**APPROVED CONSTRUCTION PLAN**

City of WILMINGTON, NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

Name \_\_\_\_\_ Date \_\_\_\_\_  
 Planning \_\_\_\_\_  
 Traffic \_\_\_\_\_  
 Fire \_\_\_\_\_

**24 HOUR CONTACT:**  
 ED UMSTEAD  
 706-840-4988

**ONSITE CIVIL GROUP**  
 ON-SITE CIVIL GROUP OF THE CAROLINAS, PLLC  
 980 BIRMINGHAM RD, SUITE 500-340, MILITON, GA 30004  
 PHONE: 770-945-8304  
 FAX: 770-945-8304  
 WWW.ONSITECIVIL.COM INFO@ONSITECIVIL.COM

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APPROVED CONSTRUCTION PLAN  
 DATED APRIL 14, 2021  
 PROJECT # 2020051  
 PROJECT # 2021004

**REVISIONS**

No.	DATE	DESCRIPTION

CLIENT:  
 SND MAYFAIRE, LLC  
 943 BALDWIN PARK DR  
 WILMINGTON, NC 28411  
 CONTACT: STEPHEN UMSTEAD  
 910-262-2831  
 STEPHEN@SPASHNDASHONLINE.COM

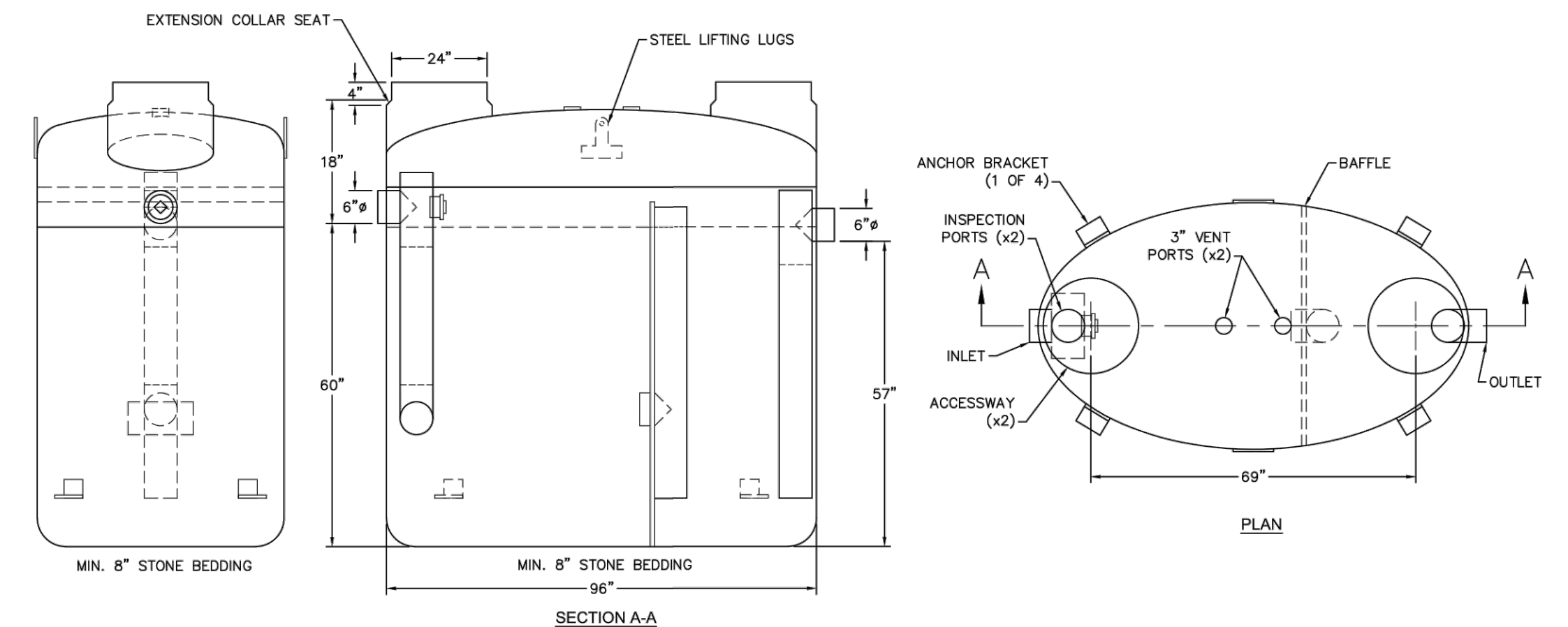
SPLASH N DASH MAYFAIRE  
 1445 EASTWOOD RD  
 CITY OF WILMINGTON,  
 NEW HANOVER COUNTY  
 NORTH CAROLINA

**CONSTRUCTION DETAILS**

DATE: MARCH 24, 2021  
 PROJECT: 19-050  
 SHEET: C 806

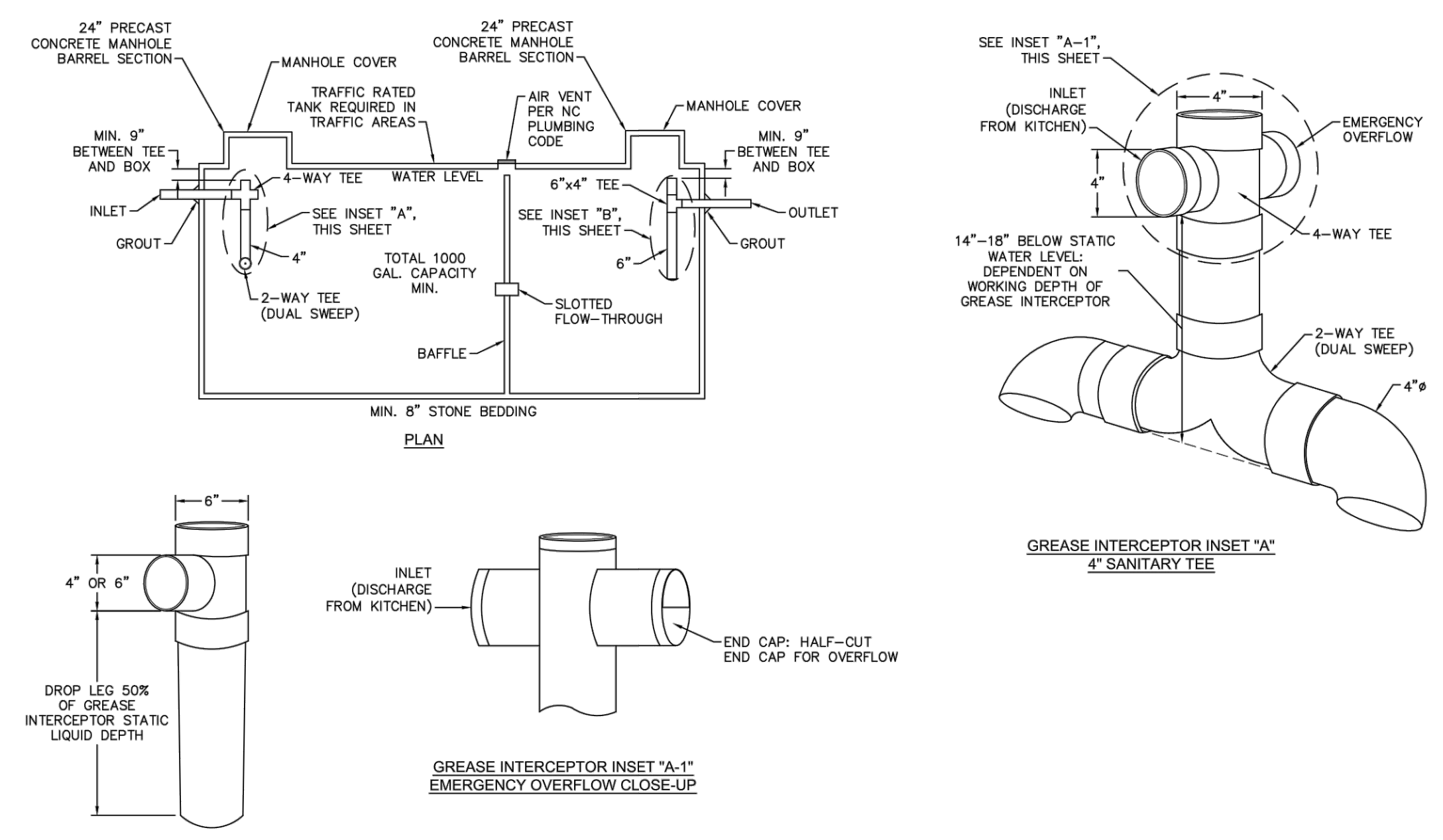
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APPROVED CONSTRUCTION PLAN  
 DATED APRIL 14, 2021  
 PROJECT # 2020051  
 STORMWATER PERMIT # 2021004



- NOTES:**
1. FOR GRAVITY APPLICATIONS ONLY.
  2. MIN. THICKNESS: 1/4" WALL AND 3/8" TOP AND BOTTOM BOWLS.
  3. STANDARD PIPE STUBS ARE SOCKET SDR 35 PVC.
  4. EXTENSION COLLARS SHALL BE CAULKED WITH SIKAFLEX OR EQUIVALENT FOR WATERTIGHT SEAL.
  5. FOLLOW MANUFACTURE'S SPECS FOR TRAFFIC OR PEDESTRIAN LOADING.

**SD-22 FIBERGLASS GREASE INTERCEPTOR**  
 NOT TO SCALE



**SD-23 CONCRETE GREASE INTERCEPTOR**  
 NOT TO SCALE

- GENERAL NOTES:**
1. NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.
  2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.
  3. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.
  4. THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.
  5. THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS).

**THE DETAILS SHOWN HEREON SUPERCEDE CFPUA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04**

REV:	DESCRIPTION:	DATE:

**CFPUA SANITARY SEWER**

**STANDARD DETAILS**


**CAPE FEAR PUBLIC UTILITY AUTHORITY**  
 235 GOVERNMENT CENTER DRIVE  
 WILMINGTON, NC 28403  
 OFFICE: (910) 332-6990  
Stewardship. Sustainability. Service.

DATE: 1/8/12  
 SCALE: N/A  
 DRAWN BY: CFPUA  
 CHECKED BY: CFPUA  
 PROJECT NO.:  
 SHEET NO: **SSD-4**

No.	DATE	DESCRIPTION


**CLIENT:**  
 SND MAYFAIRE, LLC  
 943 BALDWIN PARK DR  
 WILMINGTON, NC 28411  
 CONTACT: STEPHEN UMSTEAD  
 910-262-2831  
 STEPHEN@SPASHNDASHONLINE.COM

**SPLASH N DASH MAYFAIRE**  
 1445 EASTWOOD RD  
 CITY OF WILMINGTON,  
 NEW HANOVER COUNTY  
 NORTH CAROLINA

**CONSTRUCTION DETAILS**

DATE: MARCH 24, 2021  
 PROJECT: 19-050

SHEET: **C 807**

  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

**APPROVED CONSTRUCTION PLAN**  
 Name \_\_\_\_\_ Date \_\_\_\_\_  
 Planning \_\_\_\_\_  
 Traffic \_\_\_\_\_  
 Fire \_\_\_\_\_

**24 HOUR CONTACT:**  
 ED UMSTEAD  
 706-840-4988

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APPROVED CONSTRUCTION PLAN  
 DATED APRIL 14, 2021  
 PROJECT # 2020051  
 STORMWATER PERMIT # 2021004

No.	DATE	DESCRIPTION

CLIENT:  
**SND MAYFAIRE, LLC**  
 943 BALDWIN PARK DR  
 WILMINGTON, NC 28411  
 CONTACT: **STEPHEN UMSTEAD**  
 910-262-2831  
 STEPHEN@SLASHNDASHONLINE.COM

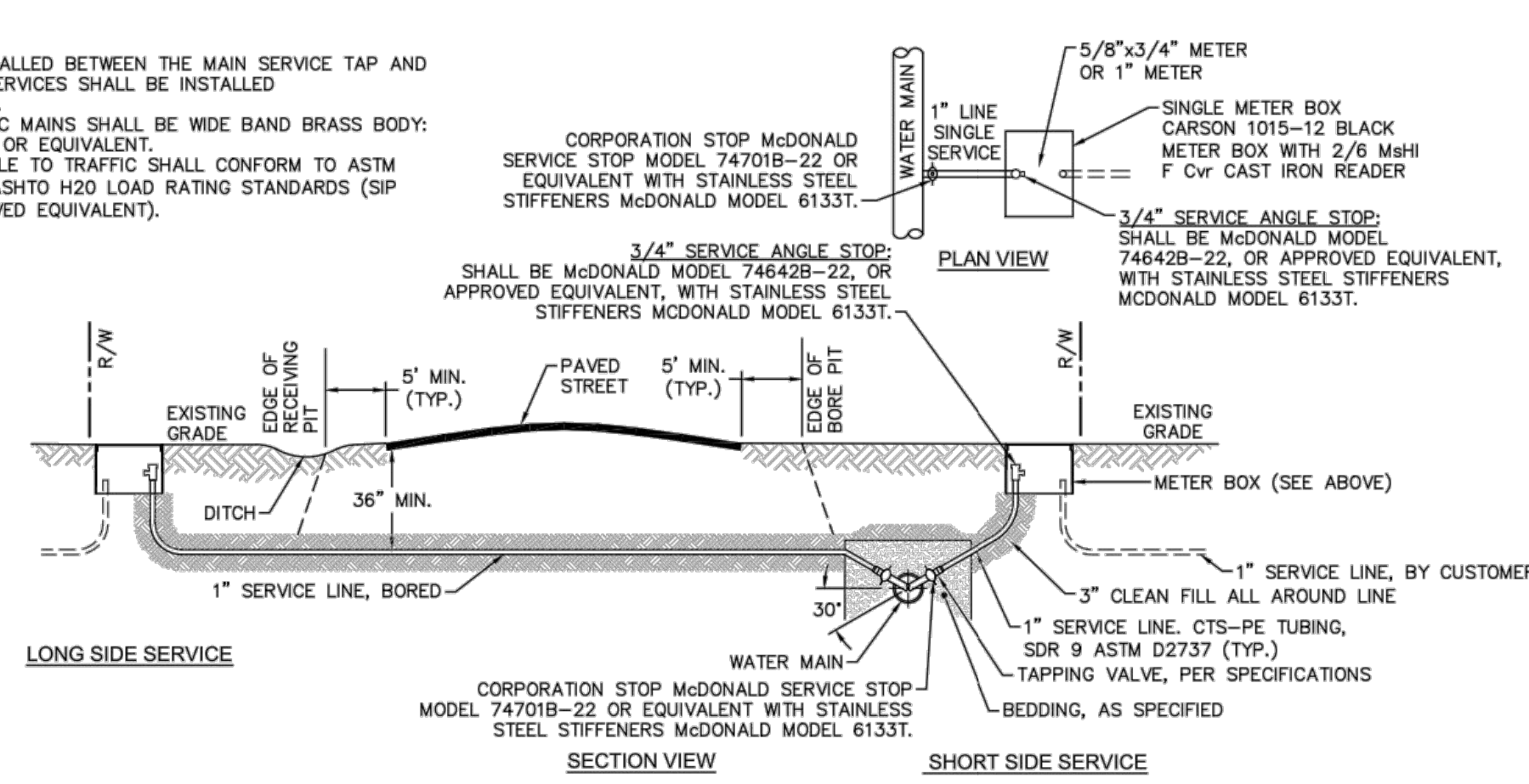
**SPLASH N DASH MAYFAIRE**  
 1445 EASTWOOD RD  
 CITY OF WILMINGTON,  
 NEW HANOVER COUNTY  
 NORTH CAROLINA

CONSTRUCTION  
 DETAILS

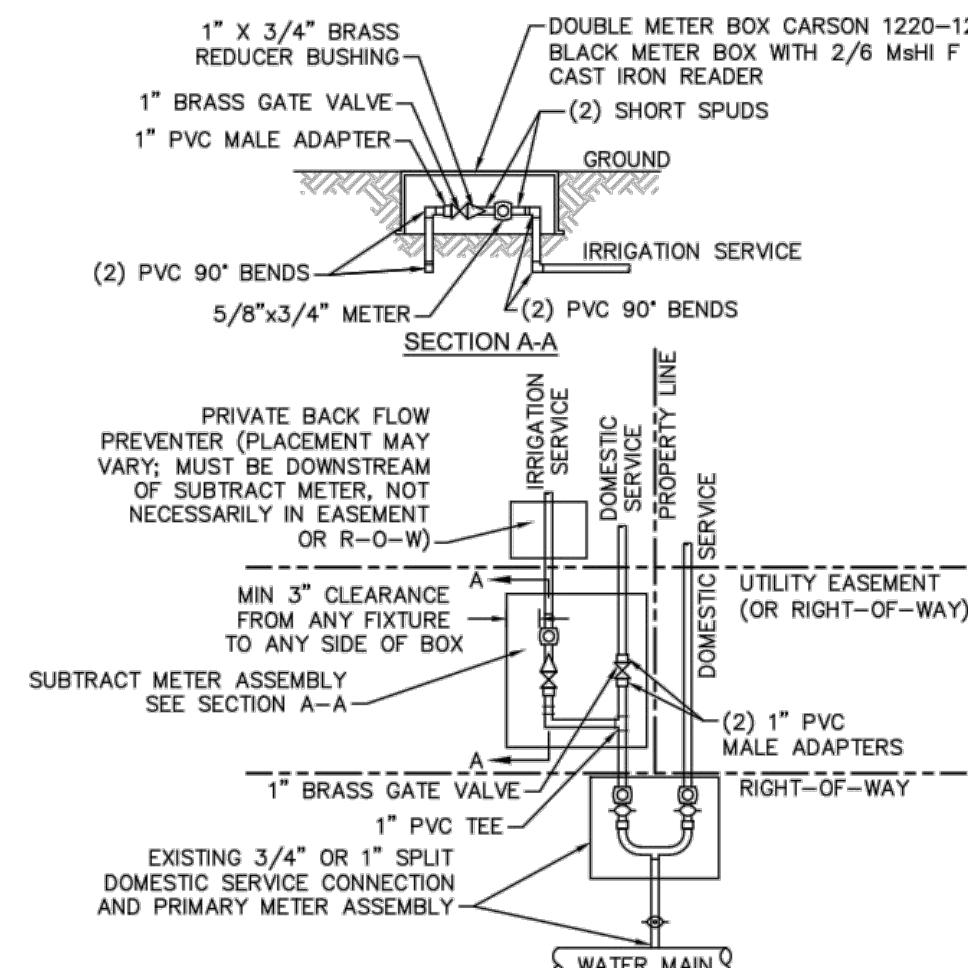
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 PROJECT: 19-050

SHEET: **C 808**

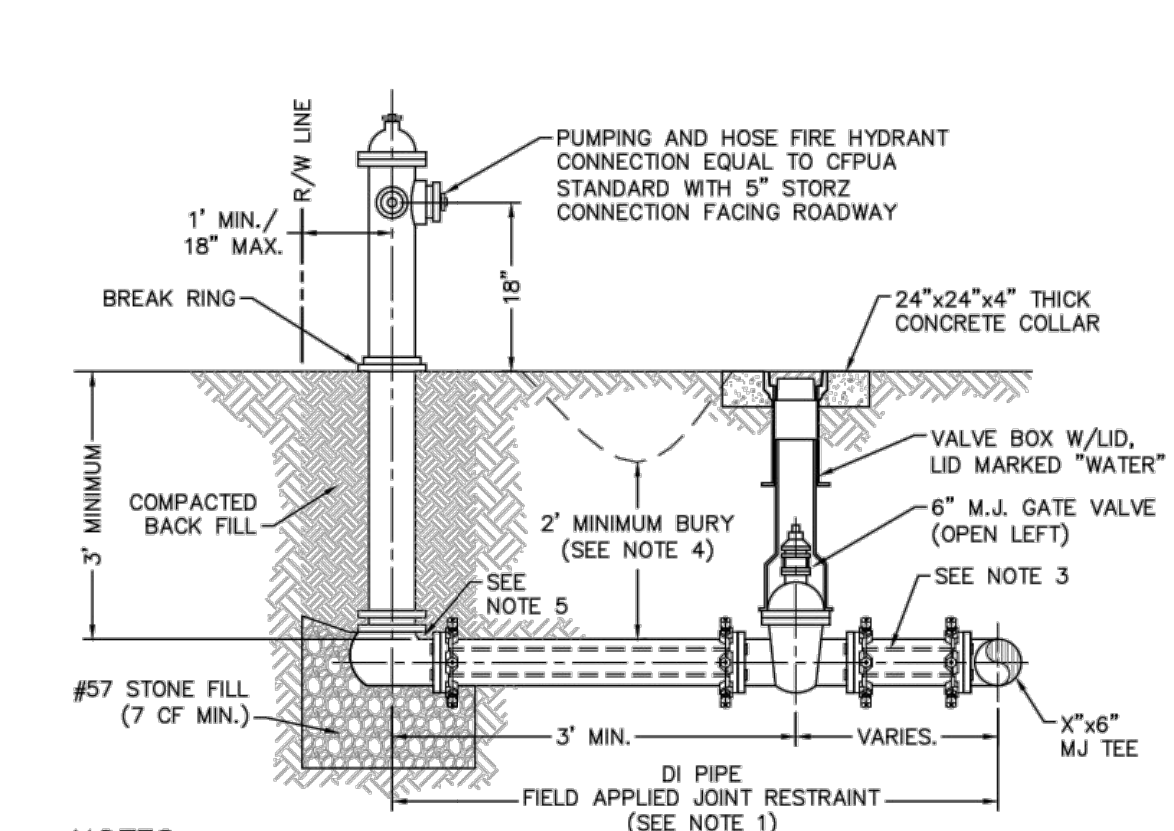
- NOTES:**
- NO JOINT SHALL BE INSTALLED BETWEEN THE MAIN SERVICE TAP AND THE METER STOP. ALL SERVICES SHALL BE INSTALLED PERPENDICULAR TO MAIN.
  - SERVICE SADDLES ON PVC MAINS SHALL BE WIDE BAND BRASS BODY: SADDLE McDONALD 3801 OR EQUIVALENT.
  - METER BOXES SUSCEPTIBLE TO TRAFFIC SHALL CONFORM TO ASTM A48, CLASS 30B AND AASHTO H20 LOAD RATING STANDARDS (SIP MODEL 4242, OR APPROVED EQUIVALENT).



**WD-18 SINGLE SERVICE CONNECTION**  
 NOT TO SCALE



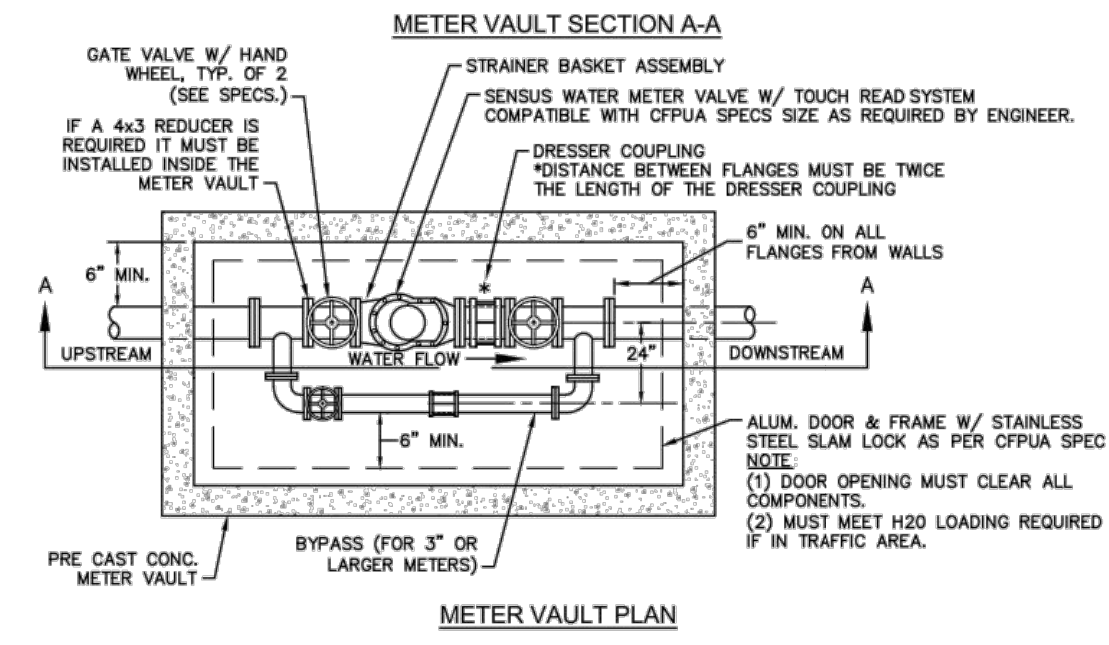
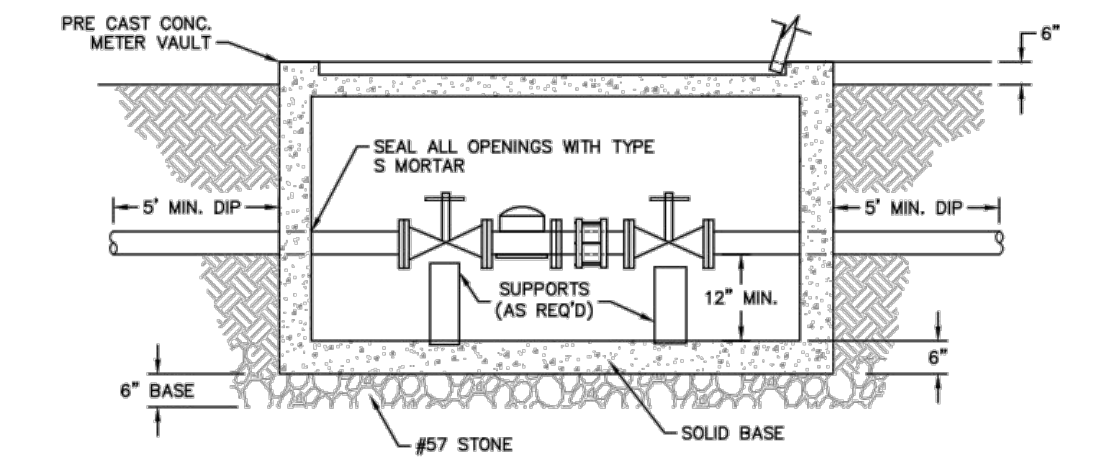
**WD-8 DOUBLE SERVICE CONNECTION USING SUBTRACT METER**  
 NOT TO SCALE



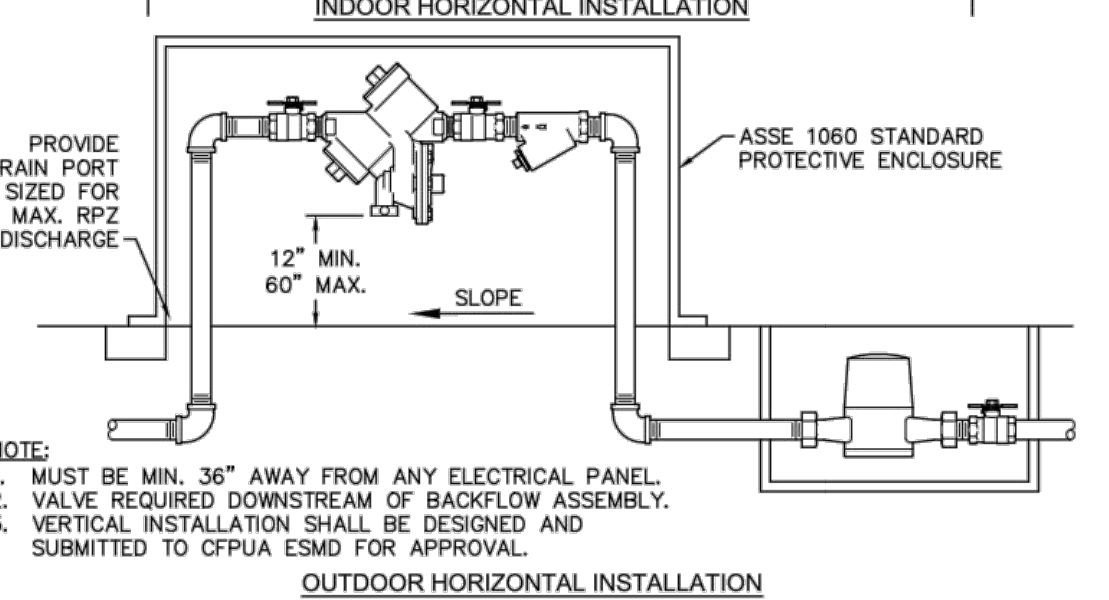
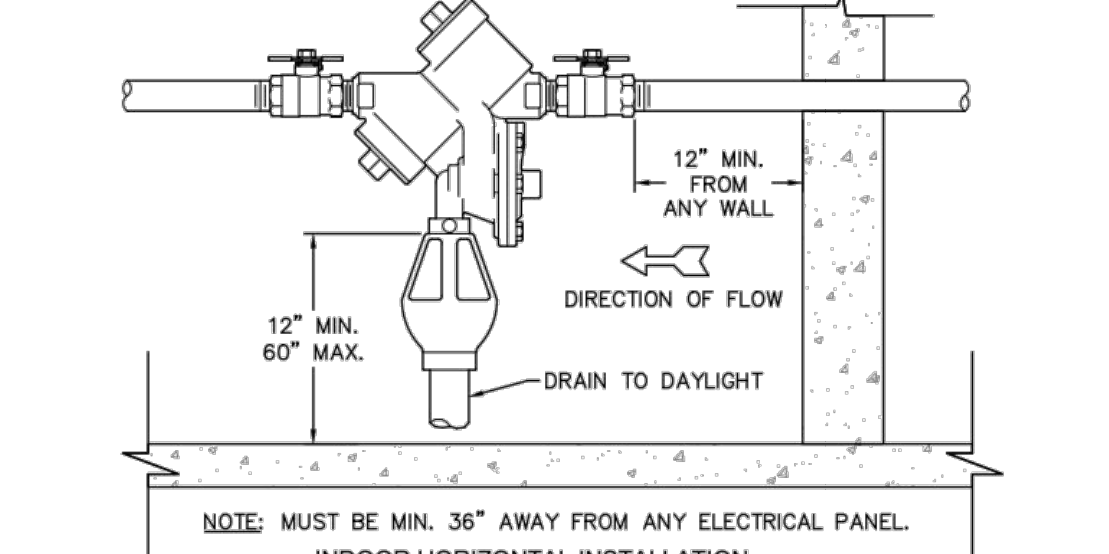
**WD-10 FIRE HYDRANT ASSEMBLY**  
 NOT TO SCALE

- CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:**
- SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
  - WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE AT RIGHT-OF-WAY LINE. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE.
  - ALL SERVICES TYING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF CLASS 50, DIP, WITH PROTECTO 401 CERAMIC EPOXY LINING.
  - MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
  - NO FLEXIBLE COUPLINGS SHALL BE USED.
  - ALL STAINLESS STEEL FASTENERS SHALL BE 316.
  - CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.

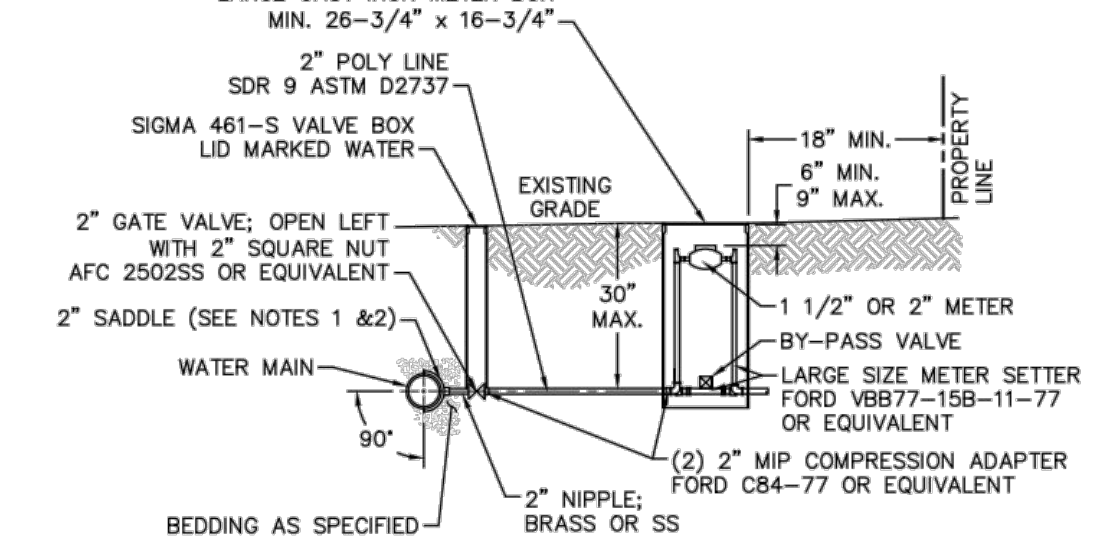
**WD-19 STANDARD NOTES**  
 (REQUIRED ON ALL PLAN AND PROFILE SHEETS)



**WD-1 WATER METER VAULT**  
 NOT TO SCALE

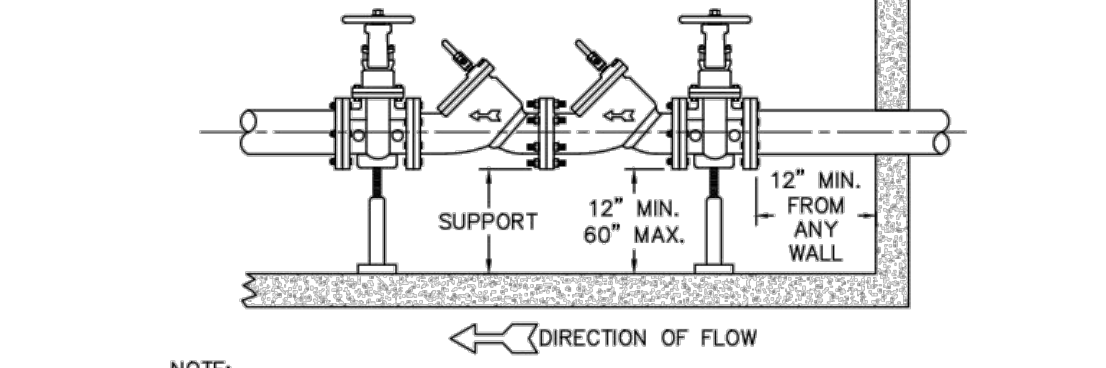
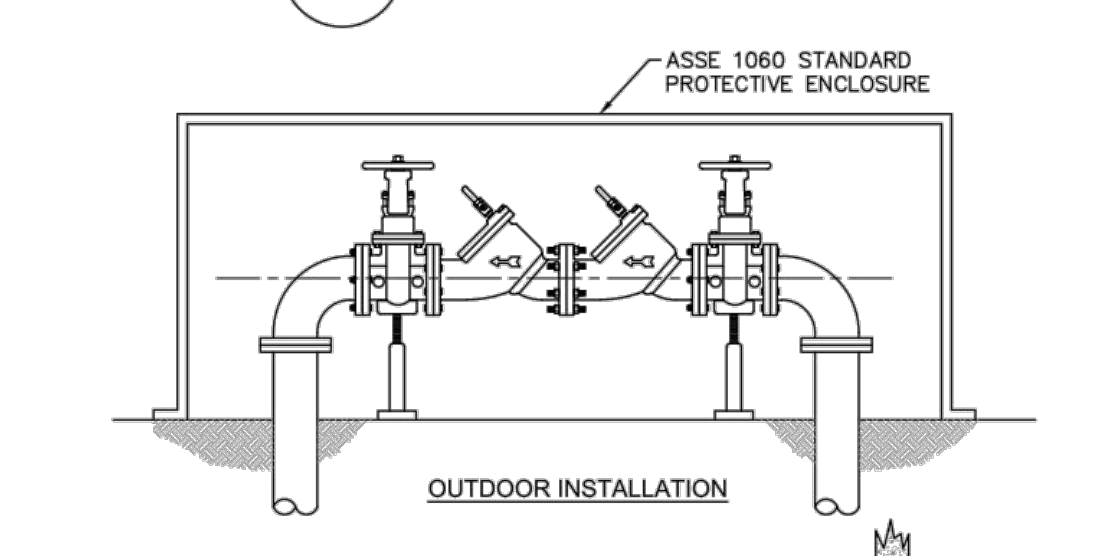


**WD-12 REDUCED PRESSURE PRINCIPLE ASSEMBLY**  
 NOT TO SCALE



- NOTES:**
- ALL SERVICES SHALL BE INSTALLED PERPENDICULAR TO MAIN.
  - SERVICE SADDLES ON PVC MAINS SHALL BE WIDE BAND BRASS BODY: McDONALD 3800, FORD S90 (DOUBLE STRAP) OR EQUIVALENT.
  - METER BOXES SUSCEPTIBLE TO TRAFFIC SHALL CONFORM TO ASTM A48, CLASS 30B AND AASHTO H20 LOAD RATING STANDARDS (OLDCASTLE PRECAST MODEL B1730 OR APPROVED EQUIVALENT).
  - METER BOXES SUSCEPTIBLE TO INCIDENTAL, NON-DELIBERATE TRAFFIC SHALL CONFORM TO ANSI/SCTE 77 TIER 15 LOAD RATING STANDARDS (SYNERTECH MODEL DUO 17A30 OR APPROVED EQUIVALENT).
  - NON-TRAFFIC METER BOXES SHALL BE SIGMA MB2203 OR APPROVED EQUIVALENT.
  - 3\"/>

**WD-11 LARGE METER**  
 NOT TO SCALE



**WD-7 DOUBLE CHECK VALVE ASSEMBLY**  
 NOT TO SCALE

- GENERAL NOTES:**
- NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.
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  - THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.
  - THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.
  - THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS).

**THE DETAILS SHOWN HEREON SUPERCEDE CFPWA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04**

REV.	DESCRIPTION:	DATE:
1	Single Service Connection, Double Service Connection, and Large Meter Revised	10/26/12
2	Single Service Connection and Fire Hydrant Details Revised	7/23/13
3	Fire Hydrant Detail Revised	01/03/14
4	Revised Fire Hydrant Assembly To Show 5\"/>	

**CFPUA WATER DISTRIBUTION SYSTEM**

**STANDARD DETAILS**

**CAPE FEAR PUBLIC UTILITY AUTHORITY**  
 235 GOVERNMENT CENTER DRIVE  
 WILMINGTON, NC 28403  
 OFFICE: (910)332-6560

DATE: 1/9/12  
 SCALE: N/A  
 DRAWN BY: CFPWA  
 CHECKED BY: CFPWA  
 PROJECT NO.:  
 SHEET NO: **WSD-1**

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN

APPROVED CONSTRUCTION PLAN  
 Name \_\_\_\_\_ Date \_\_\_\_\_

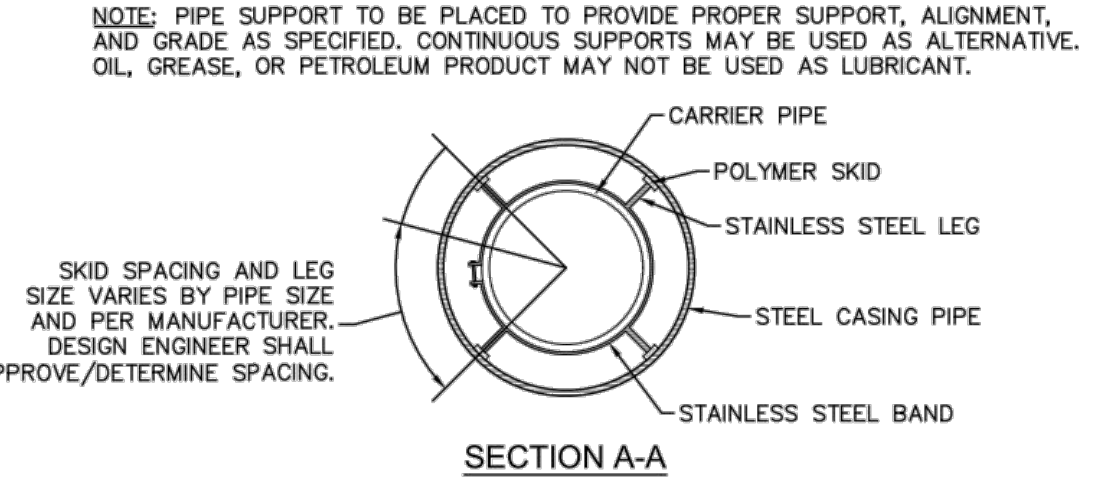
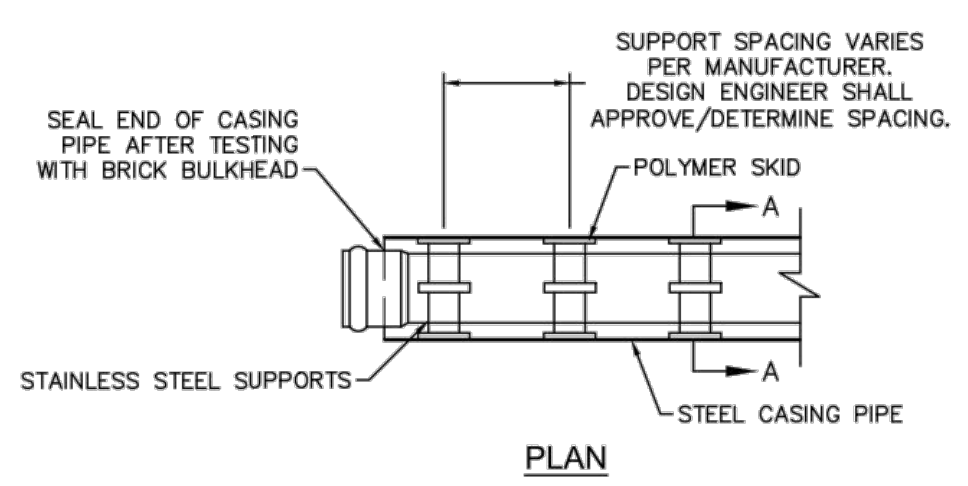
Planning \_\_\_\_\_  
 Traffic \_\_\_\_\_  
 Fire \_\_\_\_\_

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

**24 HOUR CONTACT:**  
**ED UMSTEAD**  
 706-840-4988

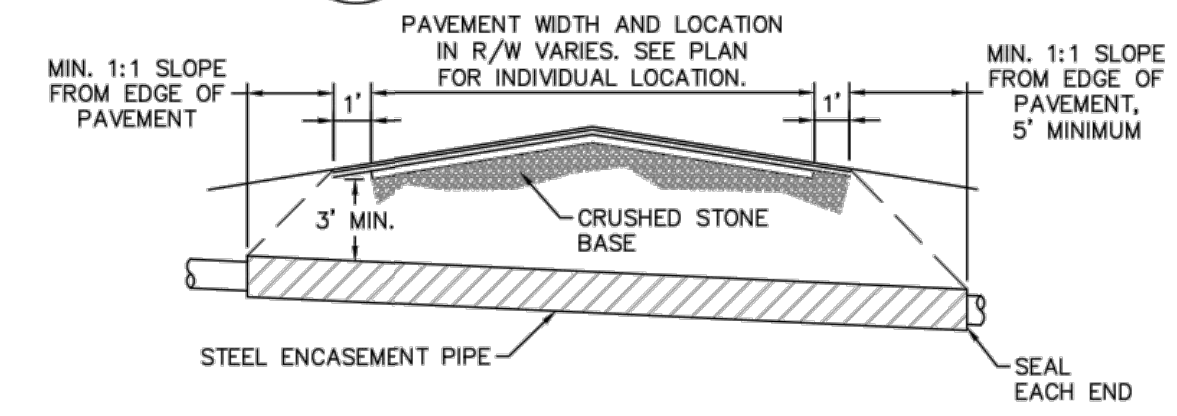
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APPROVED CONSTRUCTION PLAN  
 DATED APRIL 14, 2021  
 PROJECT # 2020051  
 STORMWATER PERMIT # 2021004

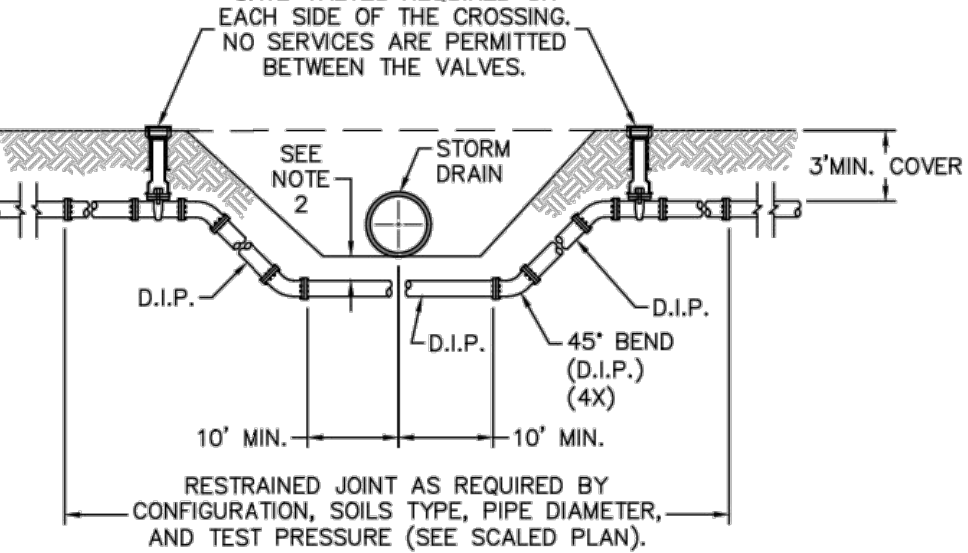


NOTE: PIPE SUPPORT TO BE PLACED TO PROVIDE PROPER SUPPORT, ALIGNMENT, AND GRADE AS SPECIFIED. CONTINUOUS SUPPORTS MAY BE USED AS ALTERNATIVE. OIL, GREASE, OR PETROLEUM PRODUCT MAY NOT BE USED AS LUBRICANT.

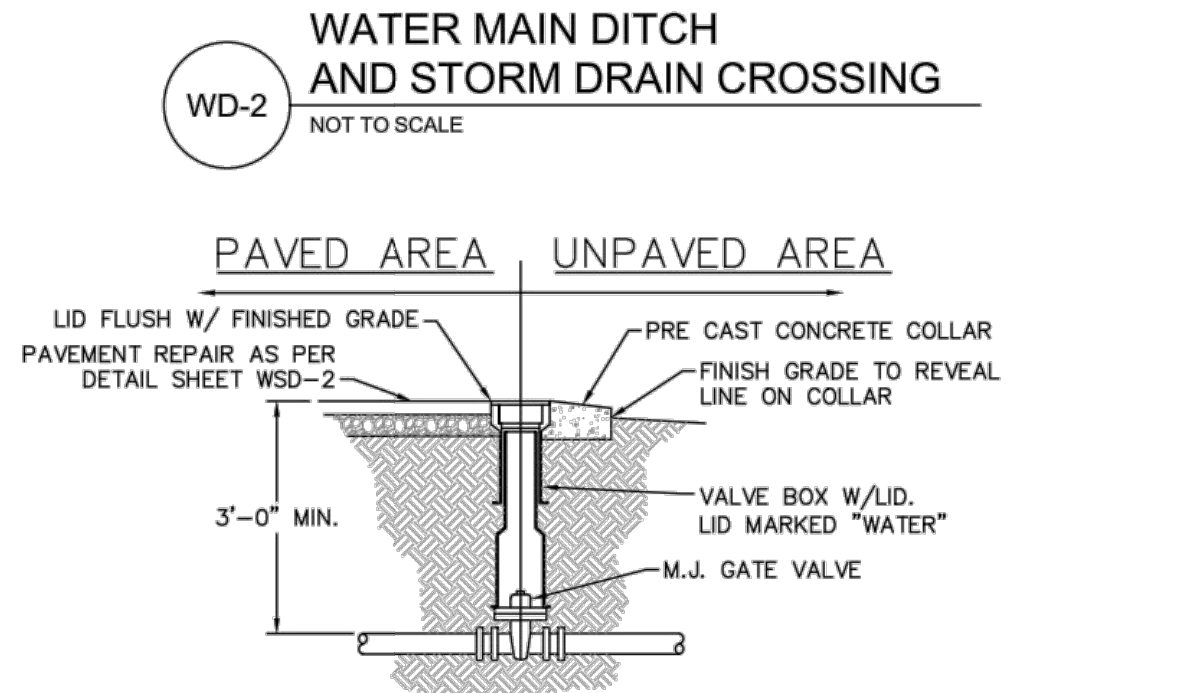
NOTE: ALL STAINLESS STEEL PARTS TO BE 316 SST.



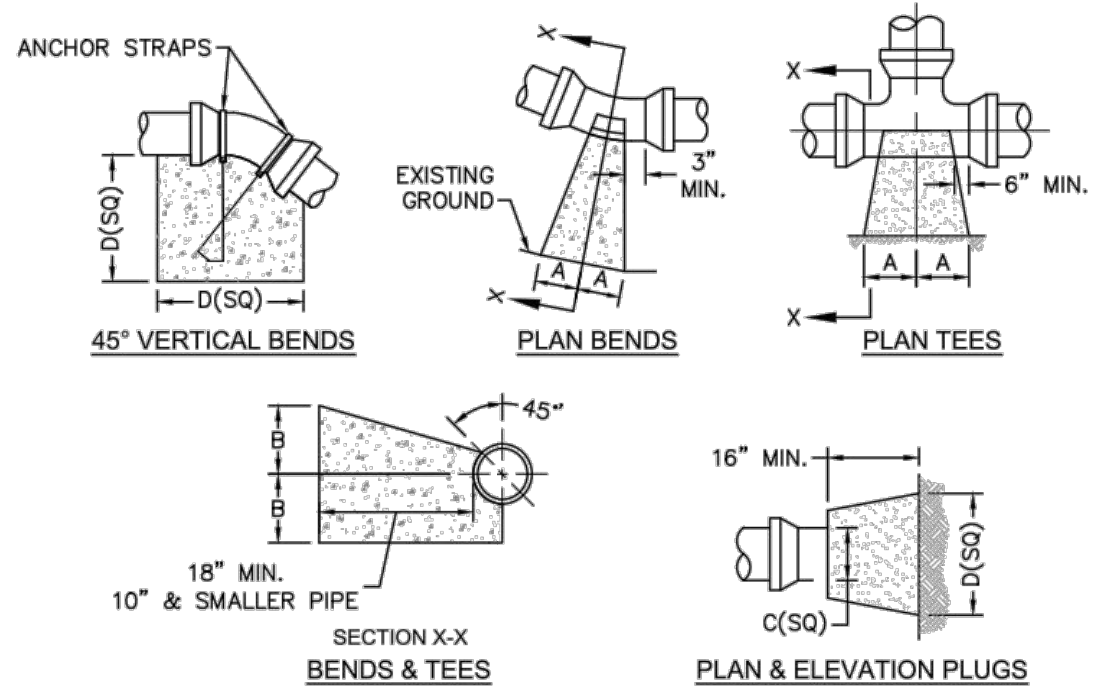
NOTE: 1. CASING WILL BE INSTALLED AT LINE AND GRADE SHOWN ON INDIVIDUAL PROFILE FOR EACH CROSSING. BORING/JACKING TO LINE AND GRADE IS REQUIRED.  
 2. TRACER WIRE SHALL BE CONTINUED THROUGH CASING.



NOTE: 1. USE PRESSURE CLASS 350 DIP, UNLESS SPECIFIED OTHERWISE.  
 2. MINIMUM DEPTH REQUIRED, UNLESS SPECIFIED OTHERWISE BY CFPWA:  
 a. IN DOT R/W, 36" MIN. TYPICAL, OR 24" MIN. WHEN CROSSING A DITCH LINE.  
 b. ALL OTHER LOCATIONS, 30" MIN.  
 c. WHEN STORM DRAIN INVERT IS BURIED AT OR BELOW ABOVE DEPTHS, 18" MIN. CLEARANCE IS REQUIRED.



NOTE: 1. NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.  
 2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.  
 3. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.  
 4. THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.  
 5. THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS).

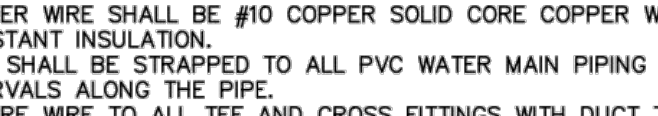
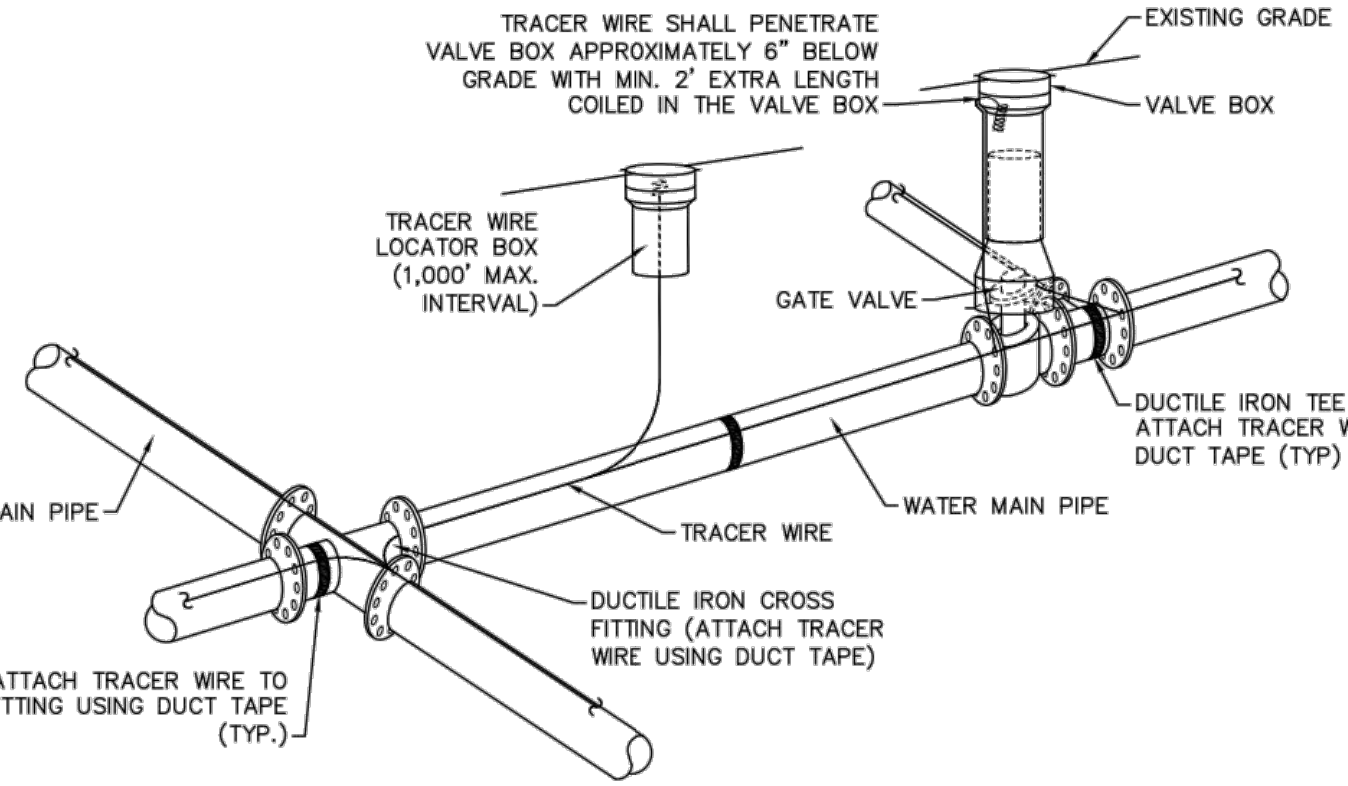


SIZE	90 BENDS		45 BENDS		22-1/2 BENDS		TEES/PLUGS		45 VERT. BENDS
	A	B	A	B	A	B	A	B	
3"	8"	6"	5"	6"	3"	7"	6"	8"	27"
4"	8"	9"	5"	8"	3"	11"	6"	9"	28"
6"	14"	11"	9"	9"	8"	8"	12"	8"	36"
8"	16"	16"	12"	12"	10"	13"	14"	13"	42"
10"	18"	22"	15"	14"	14"	16"	18"	15"	50"
12"	20"	28"	18"	17"	16"	16"	22"	18"	62"
14"	26"	29"	21"	19"	18"	18"	28"	20"	72"
16"	33"	29"	25"	21"	20"	21"	32"	21"	83"
18"	40"	30"	28"	24"	22"	23"	36"	24"	88"

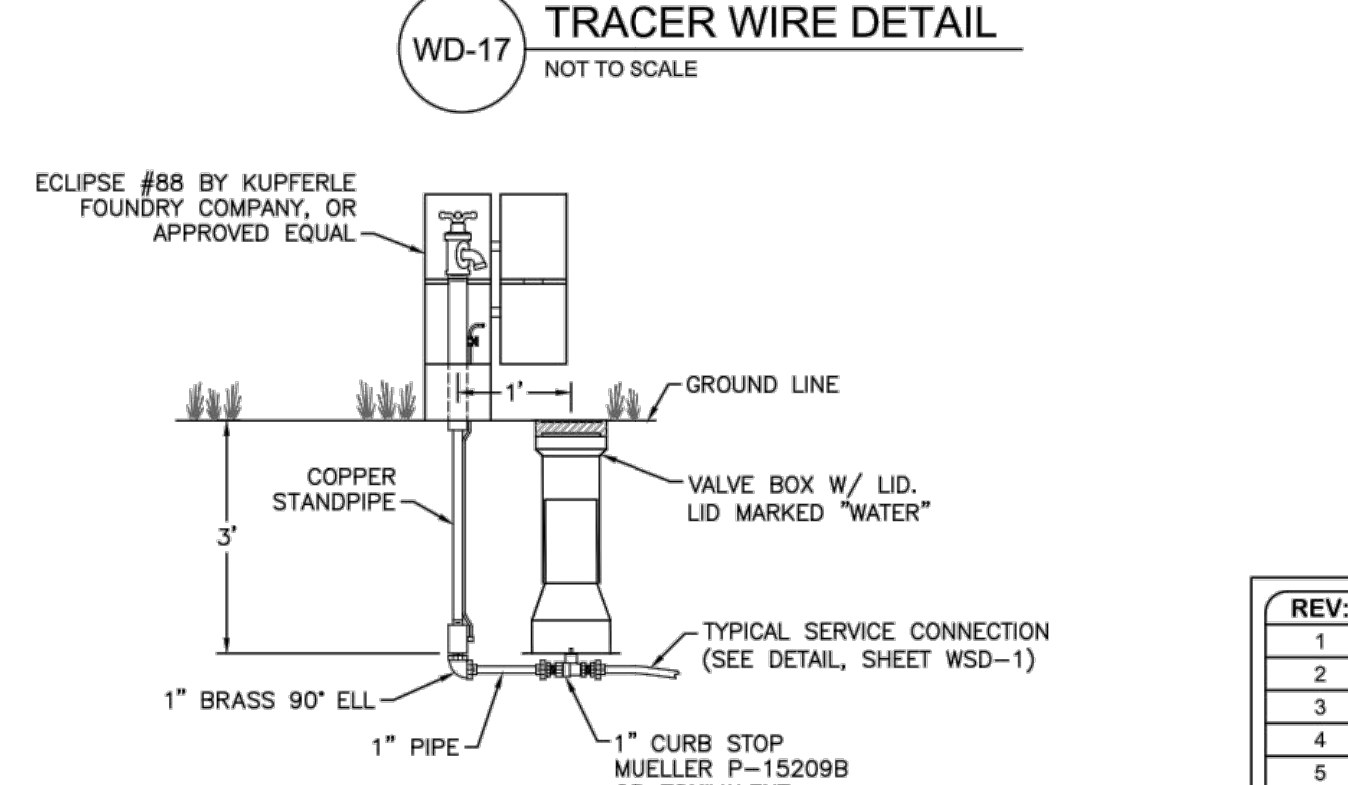
NOTE: 1. BASED ON 160 PSI TEST PRESSURE AND 2000 PSF SOIL BEARING CAPACITY.  
 2. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.  
 3. USE MEG-A-LUG (PREFERRED) IN LIEU OF BLOCKING AND RODDING.



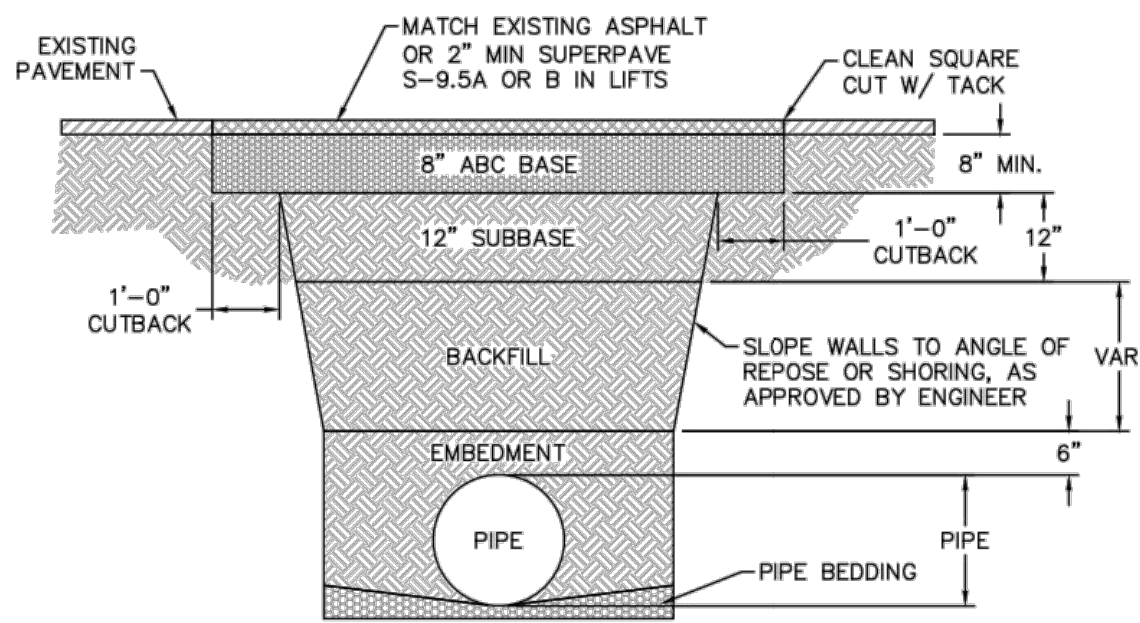
NOTE: 1. TRACER WIRE SHALL BE #10 COPPER SOLID CORE COPPER WIRE WITH GAS AND OIL RESISTANT INSULATION.  
 2. WIRE SHALL BE STRAPPED TO ALL PVC WATER MAIN PIPING WITH DUCT TAPE AT 12 FOOT INTERVALS ALONG THE PIPE.  
 3. SECURE WIRE TO ALL TEE AND CROSS FITTINGS WITH DUCT TAPE.  
 4. ALL SPLICES IN THE WIRE SHALL BE MADE WITH 3M DBR DIRECT BURY SPLICE KIT AN UNDERGROUND RATED, WATERTIGHT, AND APPROVED SPLICE CONNECTOR OR APPROVED EQUAL.



NOTE: 1. TRACER WIRE SHALL BE #10 COPPER SOLID CORE COPPER WIRE WITH GAS AND OIL RESISTANT INSULATION.  
 2. WIRE SHALL BE STRAPPED TO ALL PVC WATER MAIN PIPING WITH DUCT TAPE AT 12 FOOT INTERVALS ALONG THE PIPE.  
 3. SECURE WIRE TO ALL TEE AND CROSS FITTINGS WITH DUCT TAPE.  
 4. ALL SPLICES IN THE WIRE SHALL BE MADE WITH 3M DBR DIRECT BURY SPLICE KIT AN UNDERGROUND RATED, WATERTIGHT, AND APPROVED SPLICE CONNECTOR OR APPROVED EQUAL.



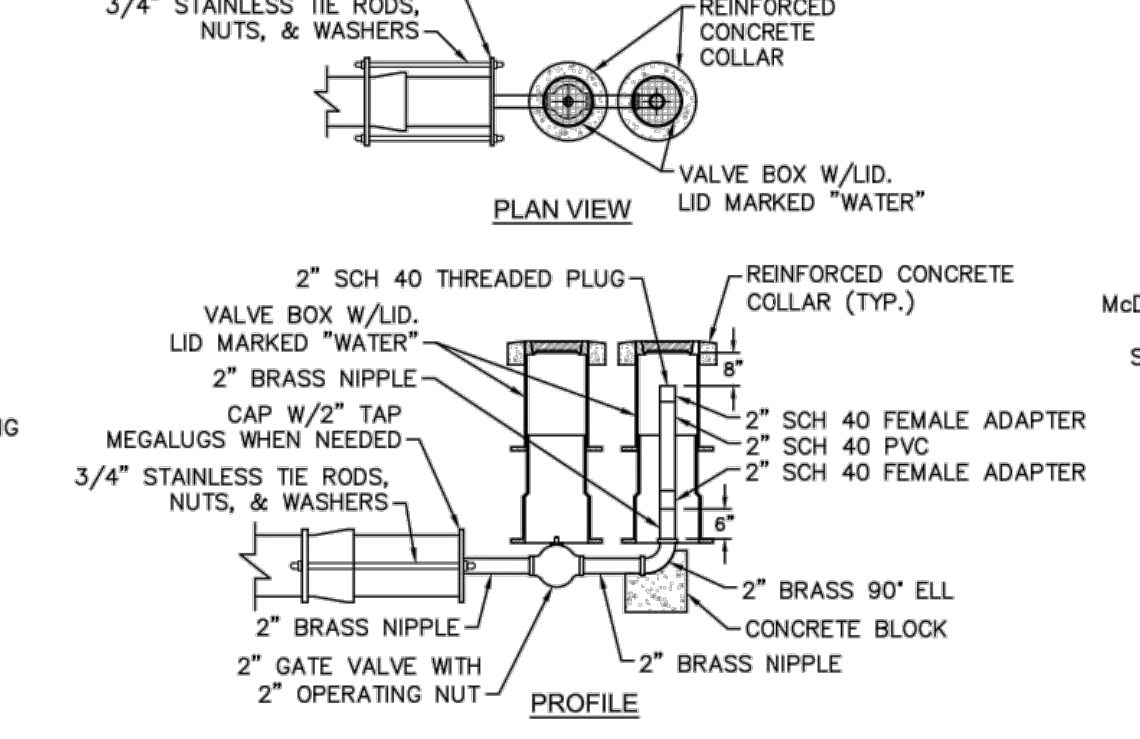
NOTE: 1. NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.  
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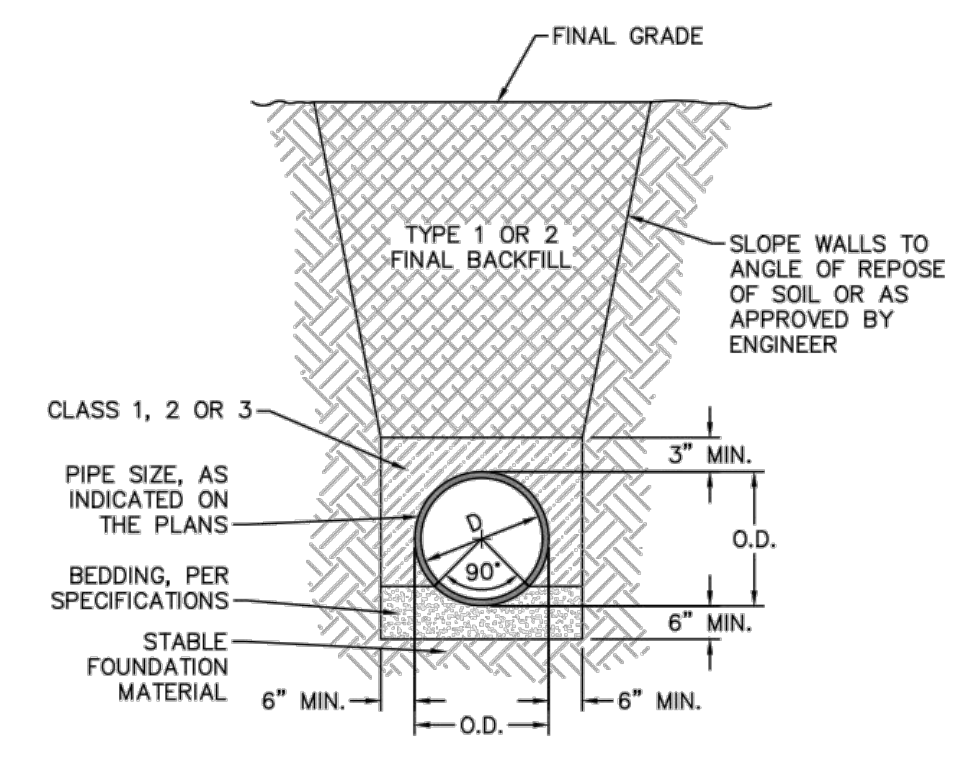
NOTE: 1. BACKFILL SHALL BE SUITABLE MATERIAL THAT IS FREE FROM HEAVY CLAY, GUMBS, DEBRIS, ORGANICS AND LITTLE TO NO EXCESSIVE MOISTURE.  
 2. SELECT BACKFILL MAY BE SUBSTITUTED OR REQUIRED BY CITY TO ACHIEVE COMPACTION, (I.E. #57, ABC, CRUSHED LIMESTONE, CLEAN SAND, FLOWABLE FILL, ETC).  
 3. 8-INCH OF ABC BASE MATERIAL SHALL BE USED ON CITY STREETS.  
 4. BACKFILL AND BASE MATERIALS SHALL BE COMPACTED 12" MINIMUM LIFTS  
 5. SOIL SHALL BE COMPACTED BY A MECHANIZED TAMPER (I.E. JUMPING JACK), HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.  
 6. ALL APPROVED CASTINGS SHALL BE SET FLUSH TO GRADE AND SUPPORTED IF APPLICABLE.  
 7. ABC BASE AND SUBBASE COMPACTED TO 98% AND BACKFILL AND EMBEDMENT COMPACTED TO 90% AS DETERMINED BY THE MODIFIED PROCTOR AASHTO METHOD T-99.  
 8. 1-FOOT CUTBACKS OF ASPHALT SHALL BE PREPARED ON UNDISTURBED SOIL. MINIMUM ASPHALT DENSITY IS 90%.



NOTE: 1. NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.  
 2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.  
 3. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.  
 4. THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.  
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NOTE: 1. NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.  
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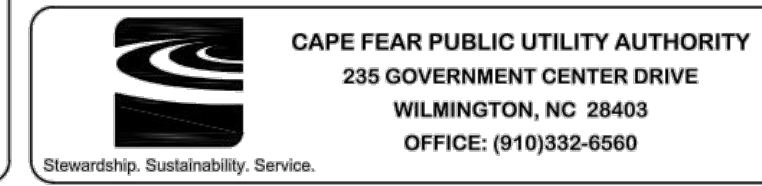
NOTE: 1. NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.  
 2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.  
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THE DETAILS SHOWN HEREON SUPERCEDE CFPWA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04

REV:	DESCRIPTION:	DATE:
1	Revised Water Main Ditch and Storm Crossing Detail	11/12/13
2	Revised Water Main Ditch and Storm Crossing Detail	05/05/14
3	Revised Tracer Wire Detail	10/20/15
4	Added Backflow Preventer to Double Service Connection Detail	02/01/16
5	Revised Sampling Station Detail	02/15/16

**CFPUA WATER DISTRIBUTION SYSTEM**

STANDARD DETAILS



DATE: 1/9/12  
 SCALE: N/A  
 DRAWN BY: CFPWA  
 CHECKED BY: CFPWA  
 PROJECT NO.:  
 SHEET NO: WSD-2

No.	DATE	DESCRIPTION

CLIENT: SND MAYFAIRE, LLC  
 943 BALDWIN PARK DR  
 WILMINGTON, NC 28411  
 CONTACT: STEPHEN UMSTEAD  
 910-262-2831  
 STEPHEN@SLASHNDASHONLINE.COM

SPLASH N DASH MAYFAIRE  
 1445 EASTWOOD RD  
 CITY OF WILMINGTON,  
 NEW HANOVER COUNTY  
 NORTH CAROLINA

**CONSTRUCTION DETAILS**

DATE: MARCH 24, 2021  
 PROJECT: 19-050

SHEET: C 809

CITY OF WILMINGTON  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN  
 Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

APPROVED CONSTRUCTION PLAN  
 Name \_\_\_\_\_ Date \_\_\_\_\_  
 Planning \_\_\_\_\_  
 Traffic \_\_\_\_\_  
 Fire \_\_\_\_\_

24 HOUR CONTACT:  
 ED UMSTEAD  
 706-840-4988



THESE DRAWINGS ARE THE PROPERTY OF ONSITE CIVIL GROUP, LLC AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF ONSITE CIVIL GROUP, LLC.

APPROVED CONSTRUCTION PLAN  
DATED APRIL 14, 2021  
PROJECT # 2020051  
STORMWATER PERMIT # 2021004

No.	DATE	DESCRIPTION

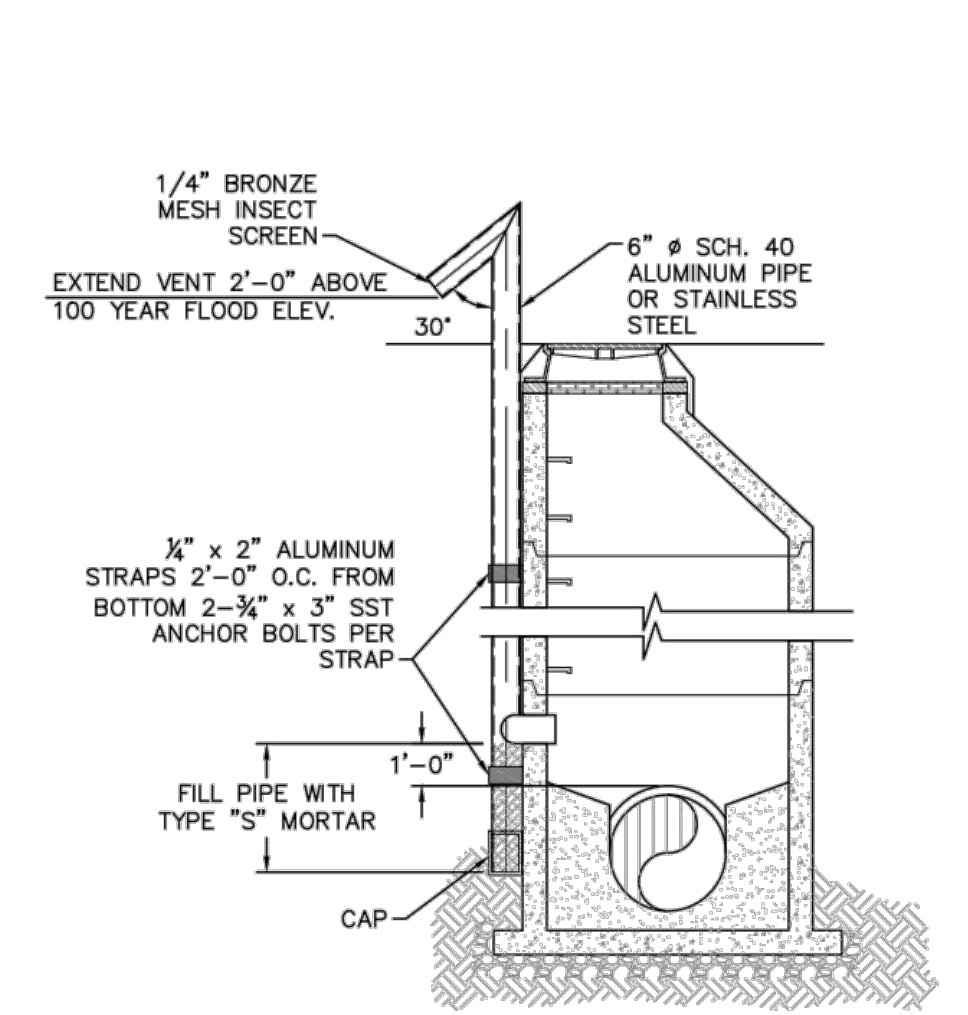
CLIENT:  
SND MAYFAIRE, LLC  
943 BALDWIN PARK DR  
WILMINGTON, NC 28411  
CONTACT: STEPHEN UMSTEAD  
910-262-2831  
STEPHEN@SPASHNDASHONLINE.COM

SPLASH N DASH MAYFAIRE  
1445 EASTWOOD RD  
CITY OF WILMINGTON,  
NEW HANOVER COUNTY  
NORTH CAROLINA

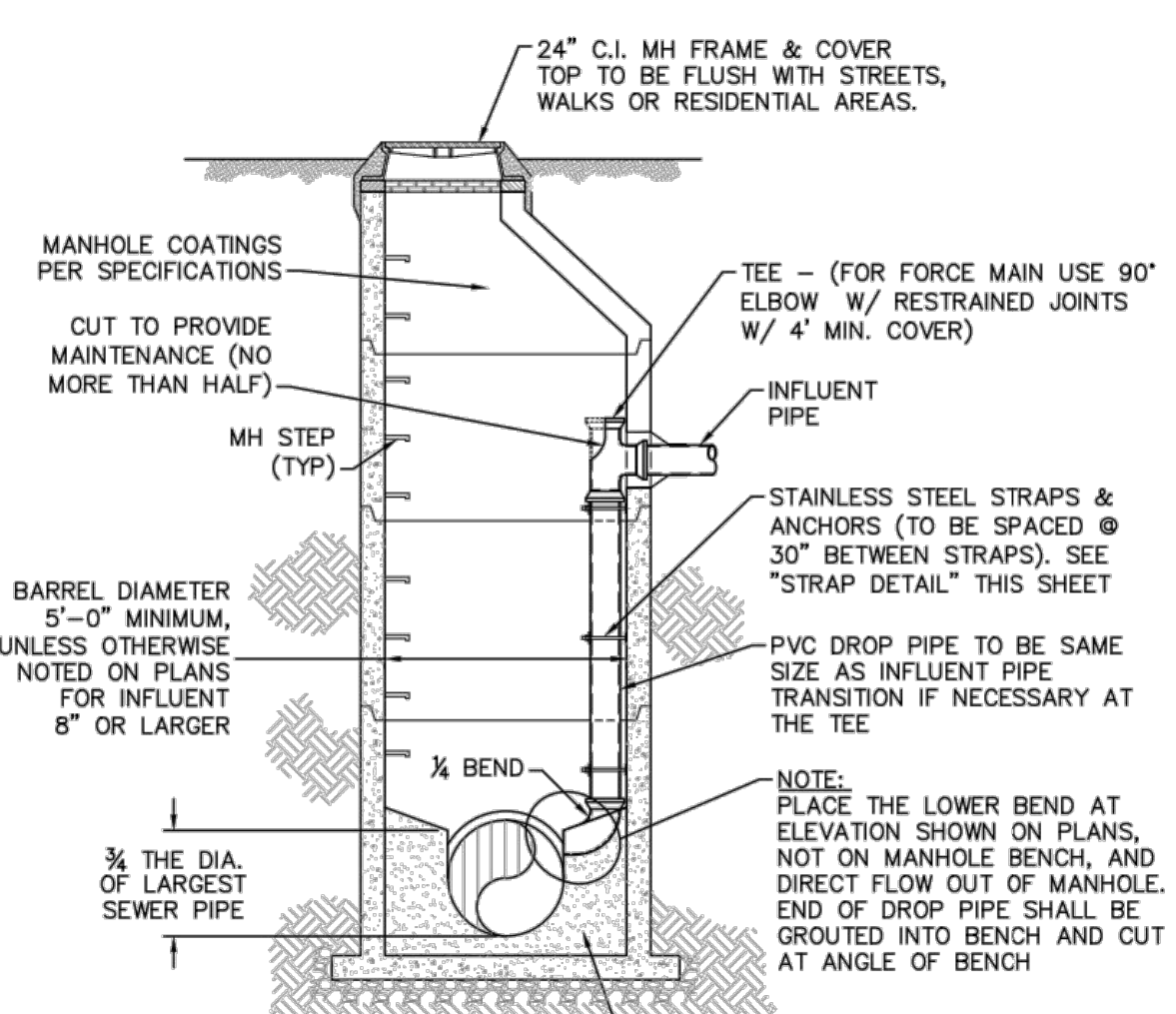
CONSTRUCTION  
DETAILS

DATE: MARCH 24, 2021  
PROJECT: 19-050

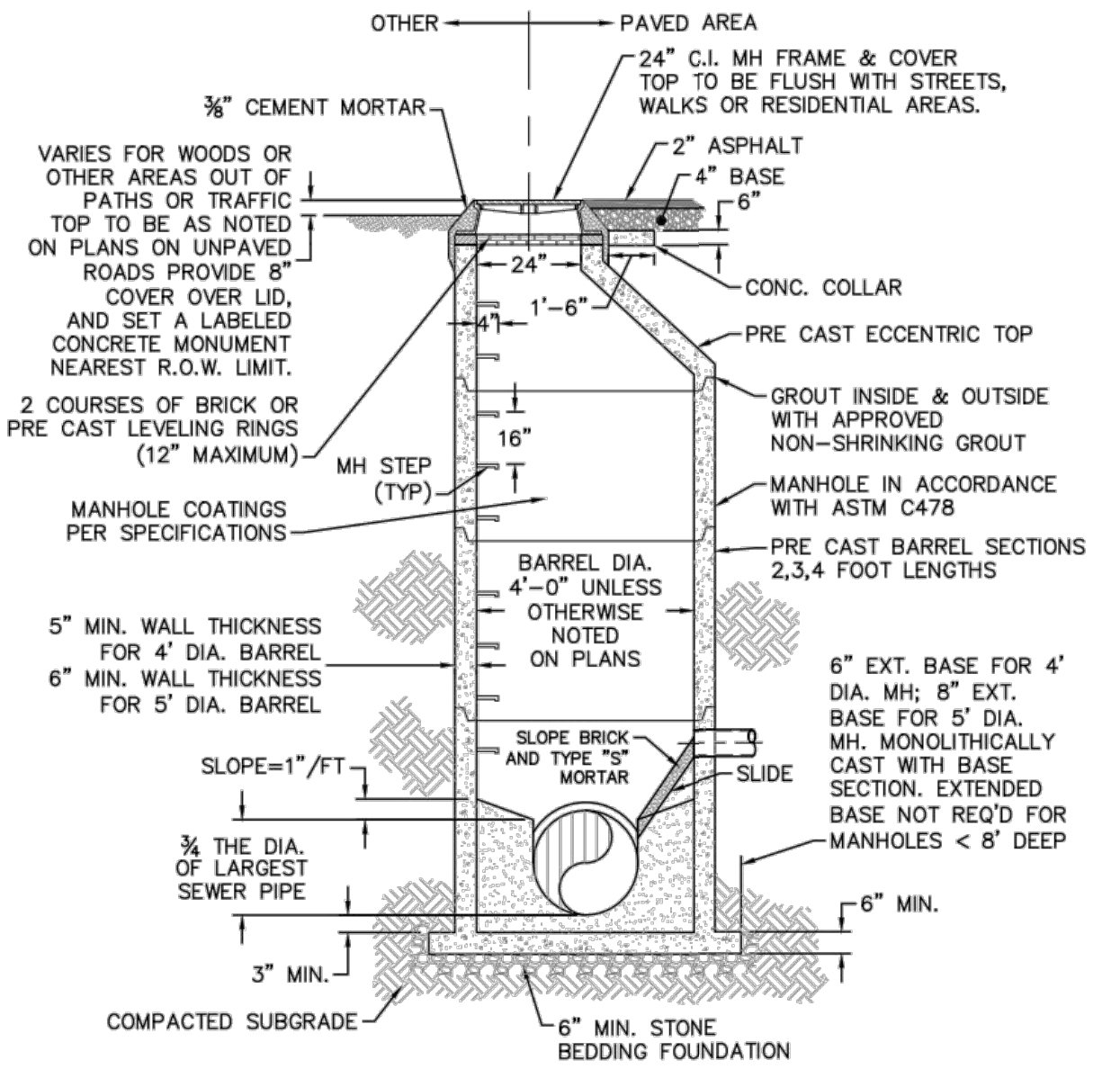
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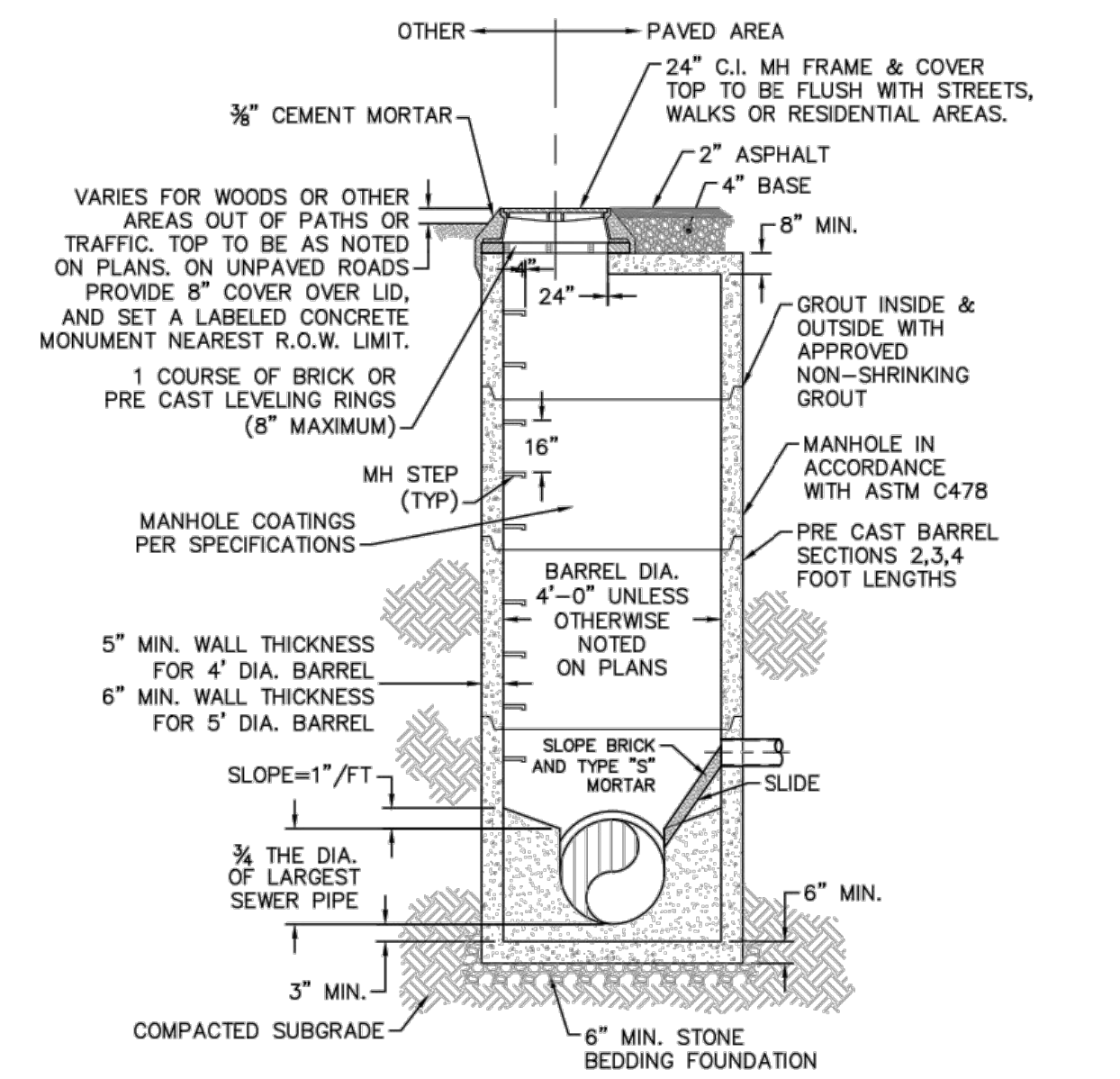
SD-4 STANDARD VENT MANHOLE  
NOT TO SCALE



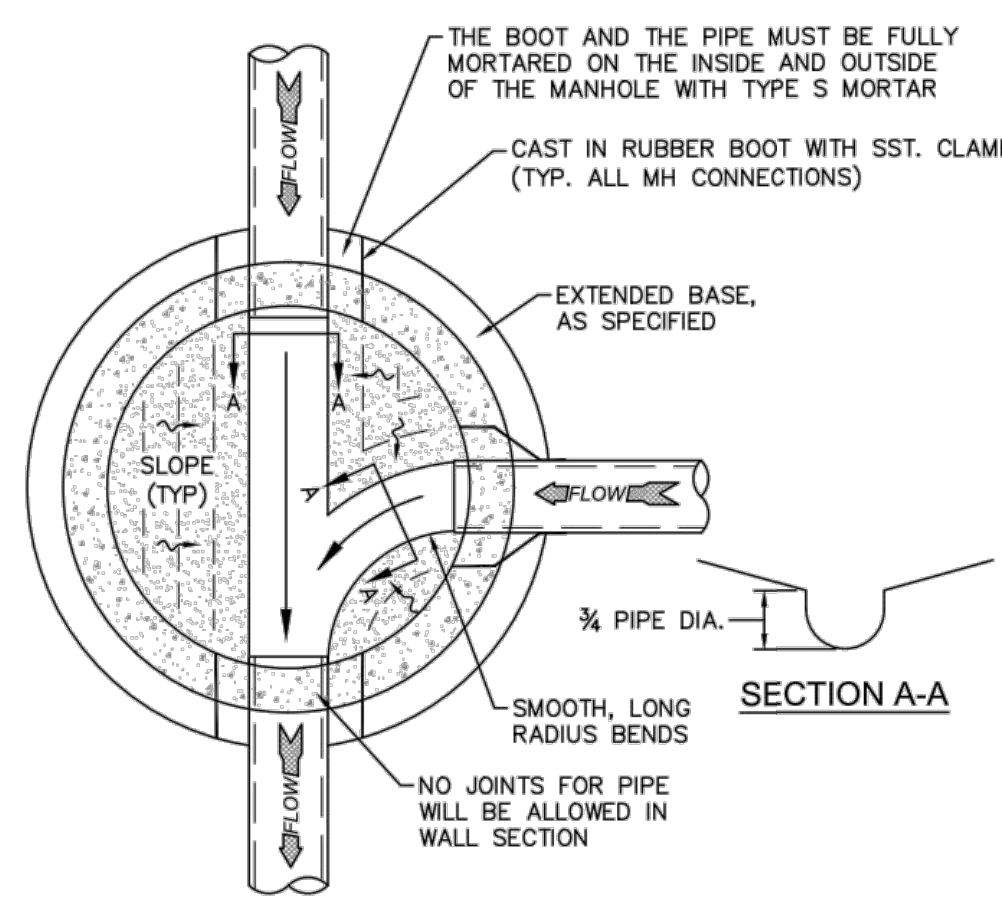
SD-3 DROP MANHOLE  
NOT TO SCALE



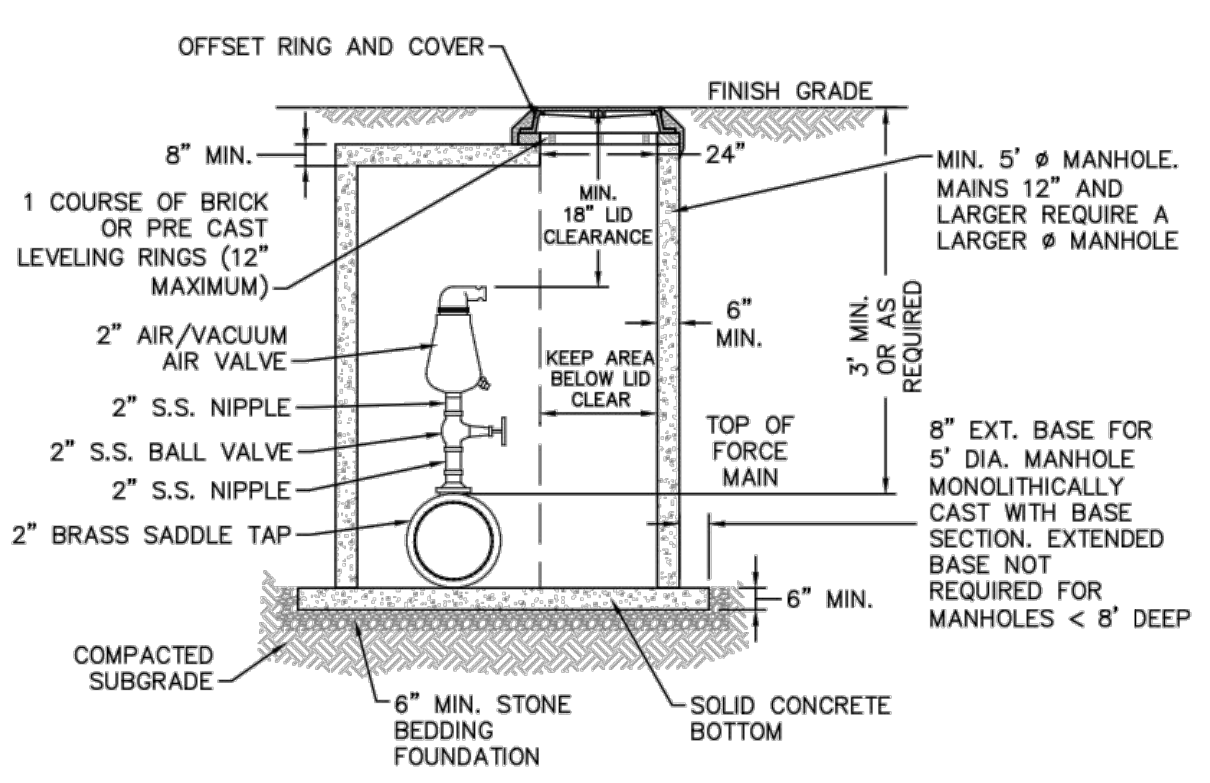
SD-1 PRECAST CONCRETE OFFSET MANHOLE TYPICAL  
NOT TO SCALE



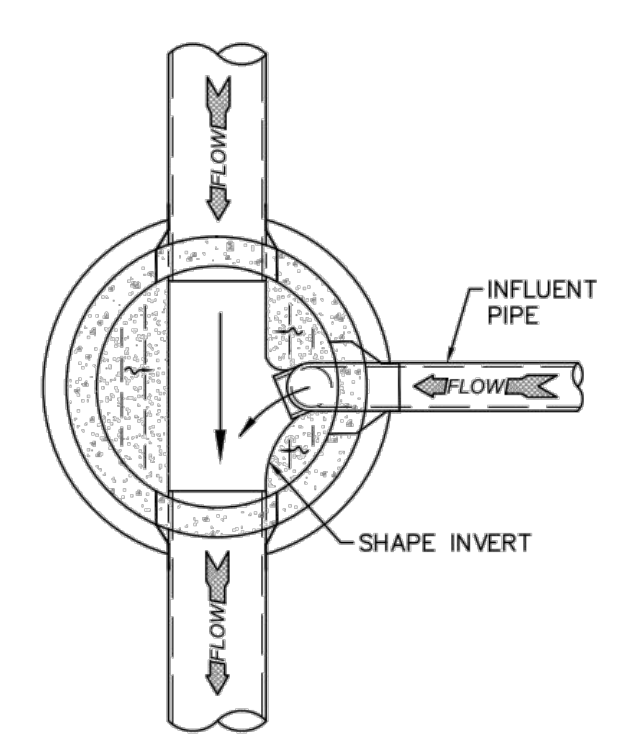
SD-2 PRECAST CONCRETE FLAT TOP MANHOLE TYPICAL  
NOT TO SCALE



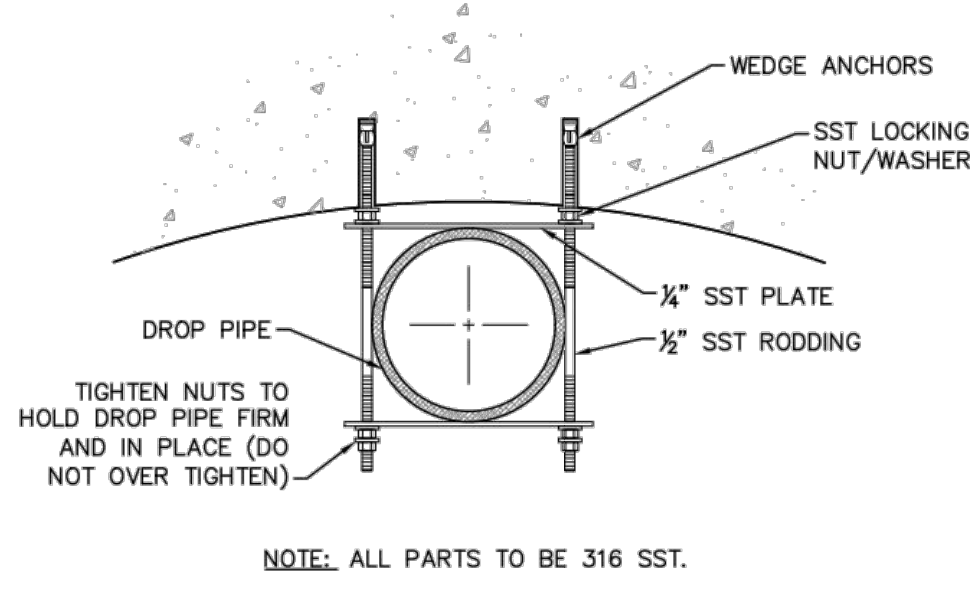
SD-5 MANHOLE FLOOR PLAN  
NOT TO SCALE



SD-6 AIR/VACUUM AND AIR RELEASE COMBINATION VALVE  
NOT TO SCALE



SD-7 DROP MANHOLE FLOOR PLAN  
NOT TO SCALE



SD-8 STRAP DETAIL  
NOT TO SCALE

- CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:**
- SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
  - WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE AT RIGHT-OF-WAY LINE. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE.
  - ALL SERVICES TYING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF CLASS 50, DIP, WITH PROTECTO 401 CERAMIC EPOXY LINING.
  - MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
  - NO FLEXIBLE COUPLINGS SHALL BE USED.
  - ALL STAINLESS STEEL FASTENERS SHALL BE 316.
  - CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.

SD-9 STANDARD NOTES  
(REQUIRED ON ALL PLAN AND PROFILE SHEETS)

- GENERAL NOTES:**
- NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.
  - THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.
  - THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.
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THE DETAILS SHOWN HEREON SUPERCEDE CFPUA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04

REV.	DESCRIPTION:	DATE:
1	AIR / VACUUM AND AIR RELEASE COMBINATION VALVE REVISED	10/26/12
2	STANDARD SEWER NOTE #6 REVISED	12/10/12
3	REVISED STANDARD VENT MANHOLE TO EXTEND VENT 2'-0" ABOVE 100 YR FLOOD	11/20/14
4	Revised Multiple Details	02/15/16

**CFPUA SANITARY SEWER**

STANDARD DETAILS

CAPE FEAR PUBLIC UTILITY AUTHORITY  
235 GOVERNMENT CENTER DRIVE  
WILMINGTON, NC 28403  
OFFICE: (910)332-6560

DATE: 1/5/12  
SCALE: N/A  
DRAWN BY: CFPUA  
CHECKED BY: CFPUA  
PROJECT NO.:  
SHEET NO: SSD-1

**CITY OF WILMINGTON**  
NORTH CAROLINA

Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

APPROVED CONSTRUCTION PLAN

Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_  
Traffic \_\_\_\_\_  
Fire \_\_\_\_\_

24 HOUR CONTACT:  
ED UMSTEAD  
706-840-4988

Engineering: CFPUA, Standard Details: CFPUA, Stormwater Details: Reg. 37100114.12.2014.01.01.001

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APPROVED CONSTRUCTION PLAN  
 DATED APRIL 14, 2021  
 PROJECT # 2020051  
 STORMWATER PERMIT # 2021004

No.	DATE	DESCRIPTION

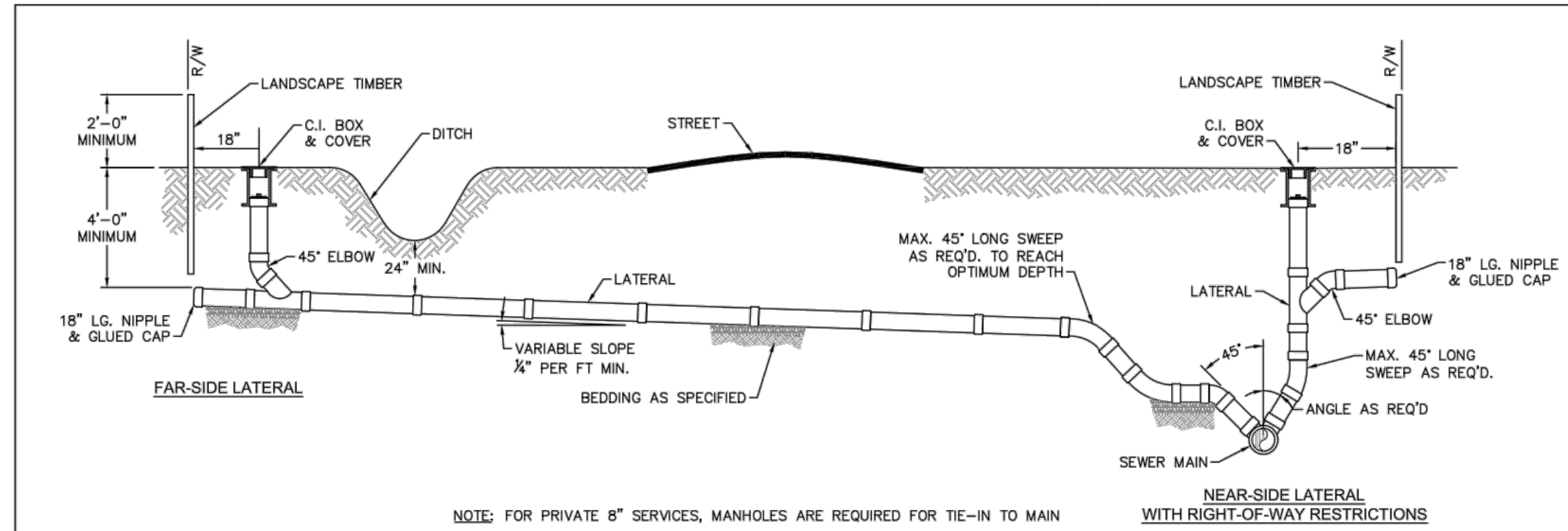
CLIENT:  
**SND MAYFARE, LLC**  
 943 BALDWIN PARK DR  
 WILMINGTON, NC 28411  
 CONTACT: **STEPHEN UMSTEAD**  
 910-262-2831  
 STEPHEN@PLASHNDASHONLINE.COM

**SPLASH N DASH MAYFARE**  
 1445 EASTWOOD RD  
 CITY OF WILMINGTON,  
 NEW HANOVER COUNTY  
 NORTH CAROLINA

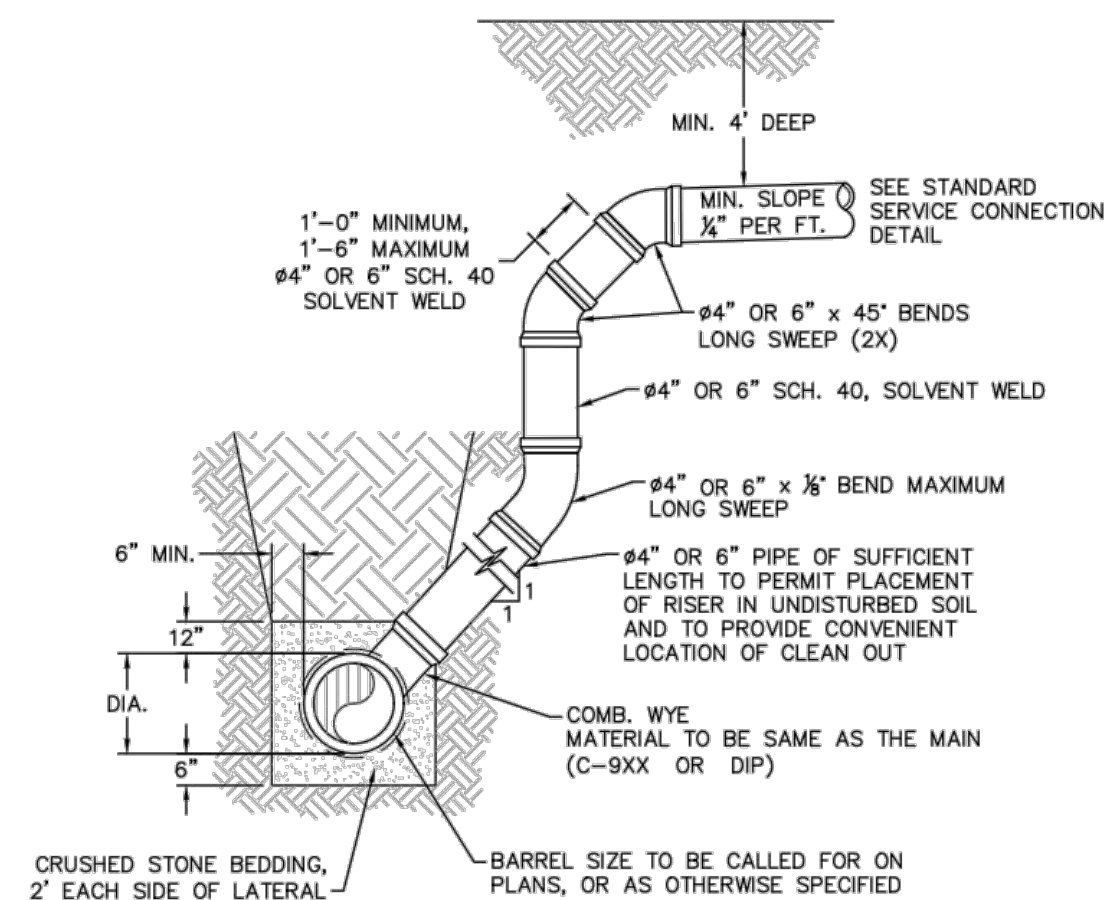
CONSTRUCTION DETAILS

DATE: MARCH 24, 2021  
 PROJECT: 19-050

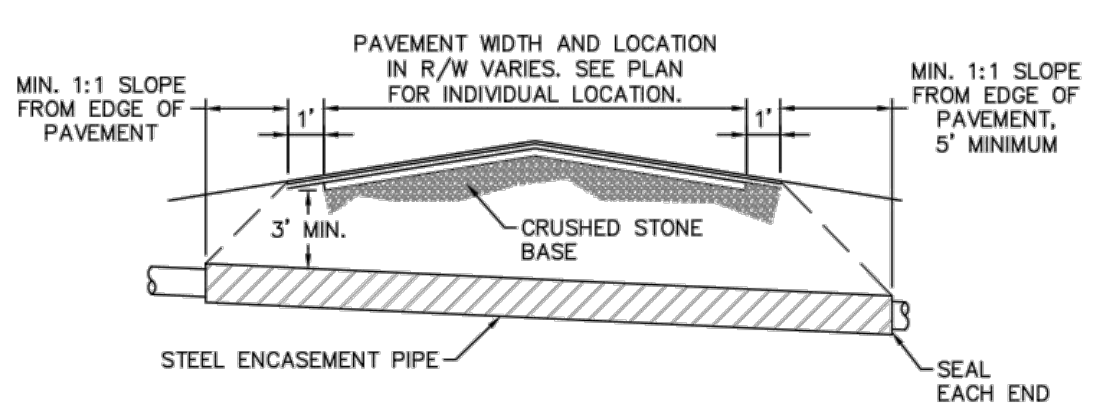
SHEET: **C 811**



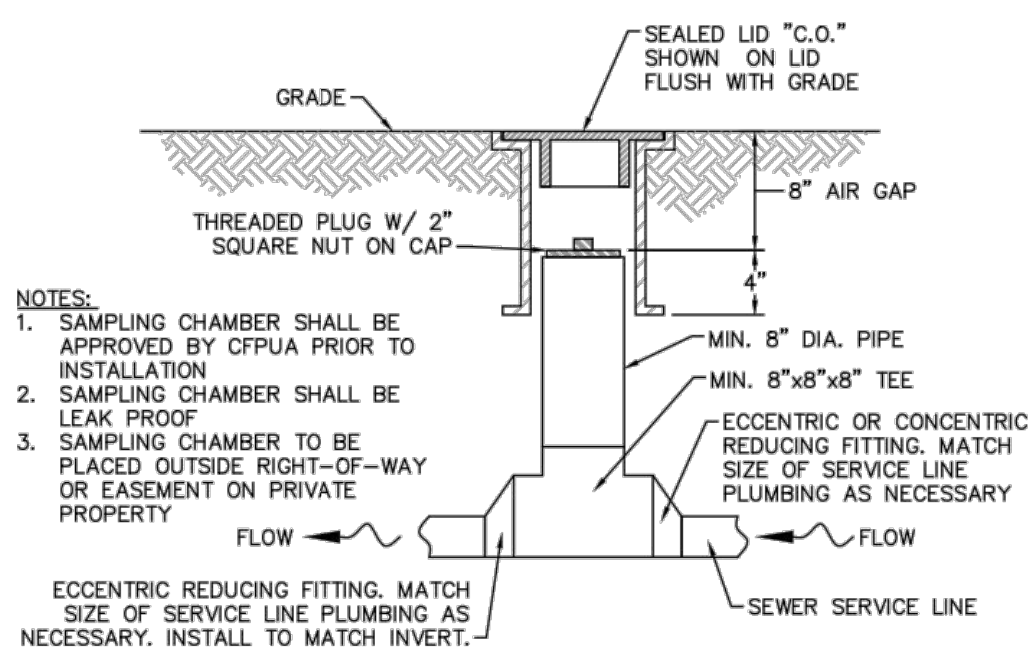
**SD-19**  
 STANDARD SERVICE CONNECTION TO SANITARY SEWER  
 NOT TO SCALE



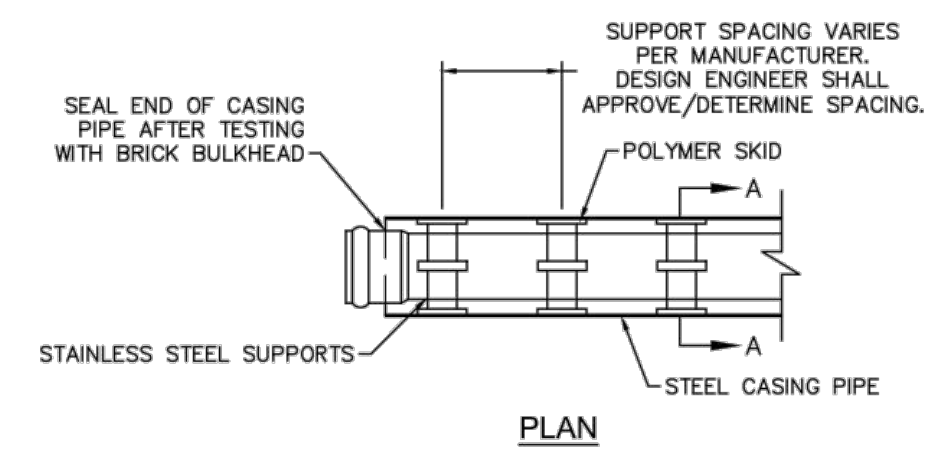
**SD-12**  
 DEEP SERVICE LATERAL  
 NOT TO SCALE



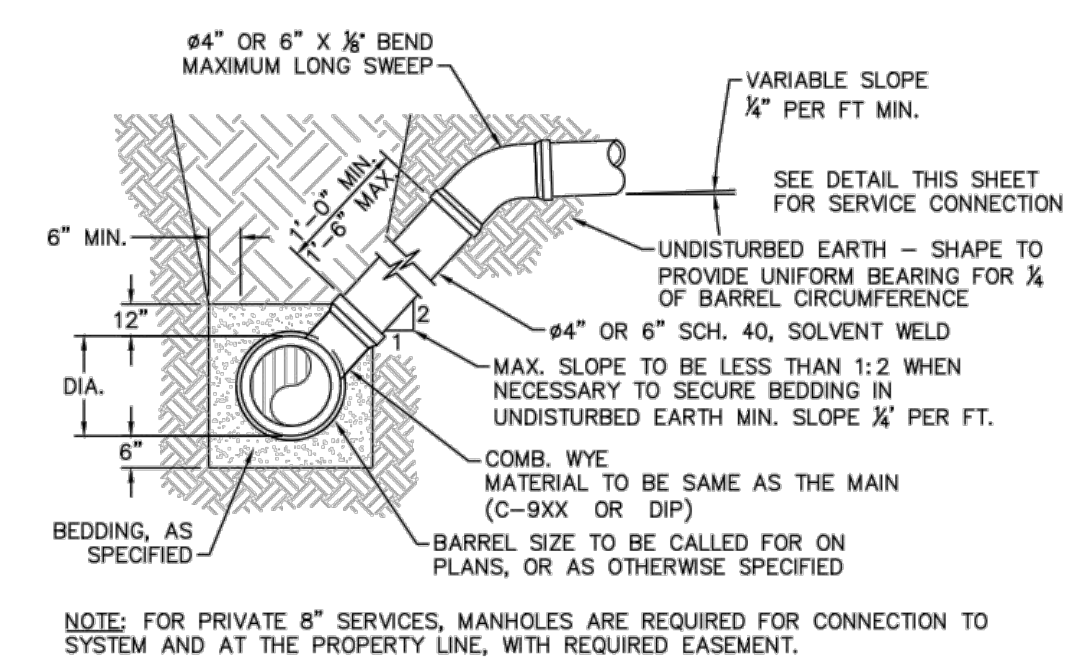
**SD-16**  
 TYPICAL BORING/ JACKING DETAIL  
 NOT TO SCALE



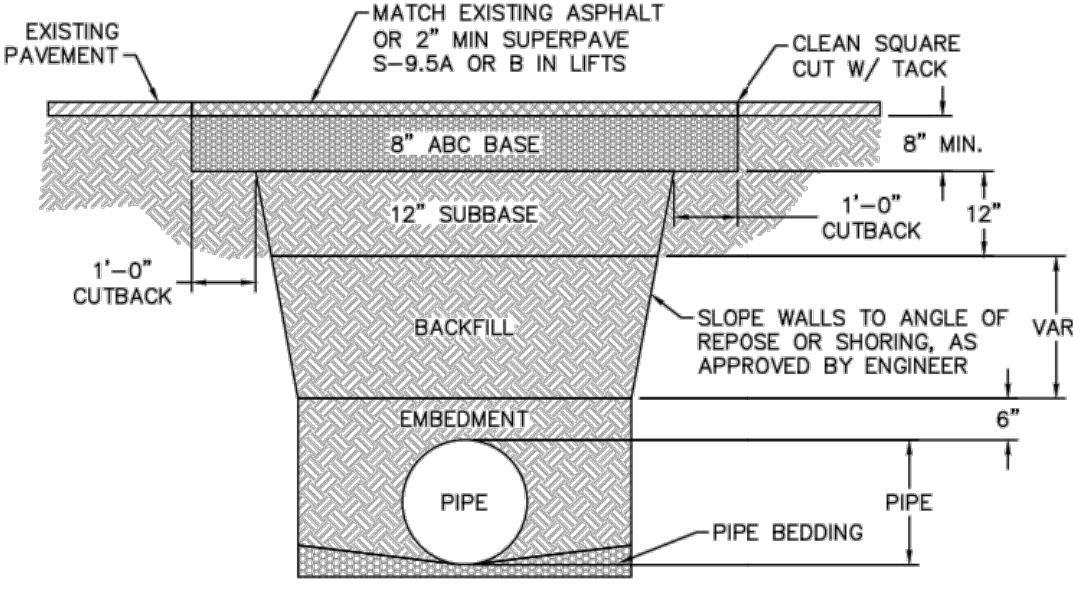
**SD-13**  
 SAMPLING CHAMBER  
 NOT TO SCALE



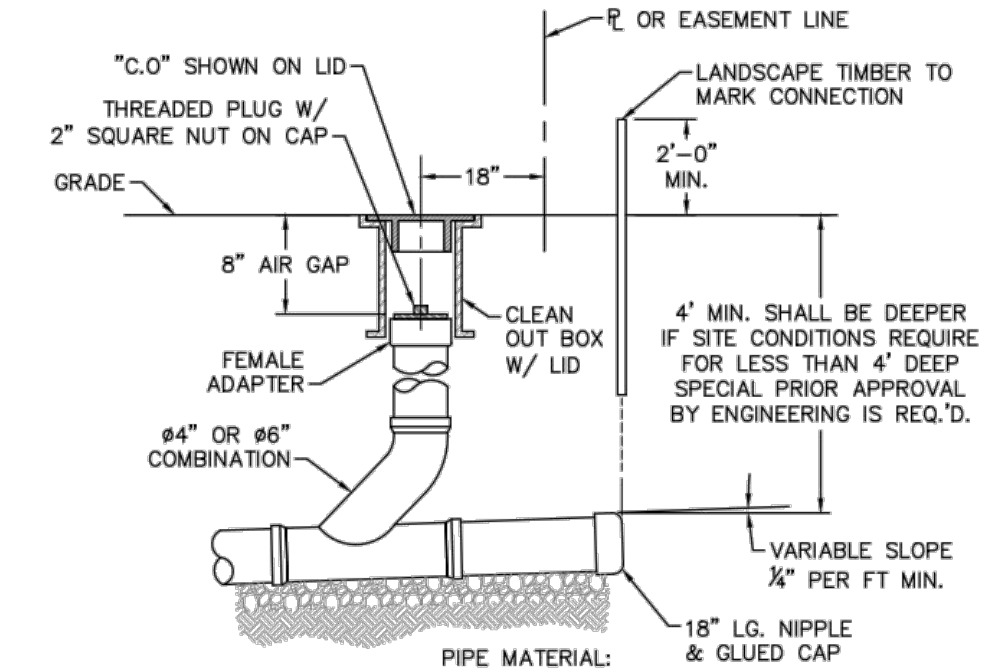
**SD-17**  
 PIPE CASING SUPPORT DETAIL  
 NOT TO SCALE



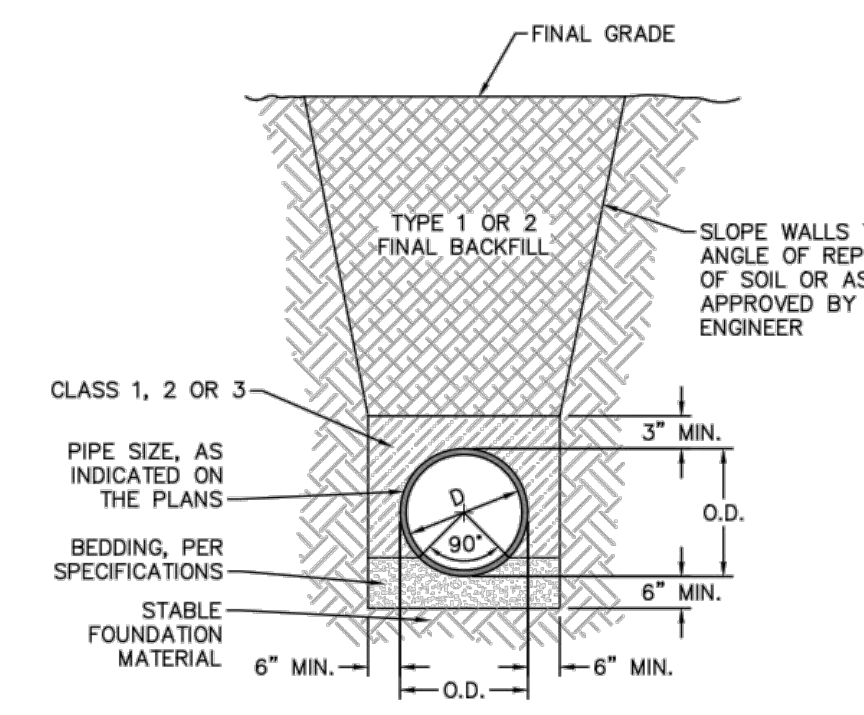
**SD-10**  
 STANDARD SERVICE LATERAL  
 NOT TO SCALE



**SD-14**  
 PAVEMENT REPAIR WHERE PIPE INSTALLED  
 NOT TO SCALE



**SD-11**  
 SERVICE CONNECTION AND CLEAN-OUT  
 NOT TO SCALE



**SD-15**  
 TYPICAL TRENCH DETAIL  
 NOT TO SCALE

NOTES:  
 1. BACKFILL SHALL BE SUITABLE MATERIAL THAT IS FREE FROM HEAVY CLAY, GUMBOS, DEBRIS, ORGANICS AND LITTLE TO NO EXCESSIVE MOISTURE.  
 2. SELECT BACKFILL MAY BE SUBSTITUTED OR REQUIRED BY CITY TO ACHIEVE COMPACTION, (I.E. #57, ABC, CRUSHED LIMESTONE, CLEAN SAND, FLOWABLE FILL, ETC).  
 3. 8-INCH OF ABC BASE MATERIAL SHALL BE USED ON CITY STREETS.  
 4. BACKFILL AND BASE MATERIALS SHALL BE COMPACTED 12" MINIMUM LIFTS.  
 5. SOIL SHALL BE COMPACTED BY A MECHANIZED TAMPER (I.E. JUMPING JACK), HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.  
 6. ALL APPROVED CASTINGS SHALL BE SET FLUSH TO GRADE AND SUPPORTED IF APPLICABLE.  
 7. ABC BASE AND SUBBASE COMPACTED TO 98% AND BACKFILL AND EMBEDMENT COMPACTED TO 90% AS DETERMINED BY THE MODIFIED PROCTOR AASHTO METHOD T-99.  
 8. 1-FOOT OUTBACKS OF ASPHALT SHALL BE PREPARED ON UNDISTURBED SOIL. MINIMUM ASPHALT DENSITY IS 90%.

GENERAL NOTES:  
 1. NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.  
 2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.  
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**THE DETAILS SHOWN HEREON SUPERCEDE CFPWA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04**

REV:	DESCRIPTION:	DATE:
1	SAMPLING CHAMBER REVISED	10/26/12
2	Revised Multiple Details	02/15/16

**CFPUA SANITARY SEWER**

**STANDARD DETAILS**

**CAPE FEAR PUBLIC UTILITY AUTHORITY**  
 235 GOVERNMENT CENTER DRIVE  
 WILMINGTON, NC 28403  
 OFFICE: (910)332-6560

DATE: 1/8/12  
 SCALE: N/A  
 DRAWN BY: CFPWA  
 CHECKED BY: CFPWA  
 PROJECT NO.:  
 SHEET NO: **SSD-2**

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN

APPROVED CONSTRUCTION PLAN  
 Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_  
 Traffic \_\_\_\_\_  
 Fire \_\_\_\_\_

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

**24 HOUR CONTACT:**  
**ED UMSTEAD**  
 706-840-4988

Table 6.11.a

HERBACEOUS PLANTS-Seeding recommendations for immediate stabilization/nurse crops (2 to 5 weeks for development; effectiveness goal: 6 months to 1 year stabilization)

NURSE CROP SPECIES

Common Name	Botanical Name	Seeds/lb	Planting Method	Planting Date	Planting Depth	Watering	Other Information, Commentary
Annual Ryegrass	Lolium perenne	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Annual Ryegrass	Lolium perenne	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Annual Ryegrass	Lolium perenne	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Annual Ryegrass	Lolium perenne	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Annual Ryegrass	Lolium perenne	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.

6.11.14

Rev. 5/08

Table 6.11.c (cont)

HERBACEOUS PLANTS-Seeding recommendations for primary stabilization (Successful development depends on planting date (effectiveness goal: 6 mo. - 2 yrs. without an ongoing maintenance program))

NATIVE SPECIES

Common Name	Botanical Name	Seeds/lb	Planting Method	Planting Date	Planting Depth	Watering	Other Information, Commentary
Bluegrass	Poa annua	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Bluegrass	Poa annua	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Bluegrass	Poa annua	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Bluegrass	Poa annua	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Bluegrass	Poa annua	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.

6.11.17

Rev. 5/08

Practice Standards and Specifications

Table 6.11.b

HERBACEOUS PLANTS-Seeding recommendations for primary stabilization (Successful development depends on planting date (effectiveness goal: 6 mo. - 2 yrs. without an ongoing maintenance program))

NON-NATIVE SPECIES

Common Name	Botanical Name	Seeds/lb	Planting Method	Planting Date	Planting Depth	Watering	Other Information, Commentary
Annual Ryegrass	Lolium perenne	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Annual Ryegrass	Lolium perenne	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Annual Ryegrass	Lolium perenne	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Annual Ryegrass	Lolium perenne	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Annual Ryegrass	Lolium perenne	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.

6.11.15

Rev. 5/08

Practice Standards and Specifications

Table 6.11.c (cont)

HERBACEOUS PLANTS-Seeding recommendations for primary stabilization (Successful development depends on planting date (effectiveness goal: 6 mo. - 2 yrs. without an ongoing maintenance program))

NATIVE SPECIES

Common Name	Botanical Name	Seeds/lb	Planting Method	Planting Date	Planting Depth	Watering	Other Information, Commentary
Bluegrass	Poa annua	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Bluegrass	Poa annua	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Bluegrass	Poa annua	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Bluegrass	Poa annua	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Bluegrass	Poa annua	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.

6.11.18

Rev. 5/08

Practice Standards and Specifications

Table 6.11.c

HERBACEOUS PLANTS-Seeding recommendations for primary stabilization (Successful development depends on planting date (effectiveness goal: 6 mo. - 2 yrs. without an ongoing maintenance program))

NATIVE SPECIES

Common Name	Botanical Name	Seeds/lb	Planting Method	Planting Date	Planting Depth	Watering	Other Information, Commentary
Bluegrass	Poa annua	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Bluegrass	Poa annua	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Bluegrass	Poa annua	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Bluegrass	Poa annua	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.
Bluegrass	Poa annua	15 lbs	By seed	10/15-11/15	1-2"	Yes	Highly competitive and recommended for erosion control.

6.11.16

Rev. 5/08

Practice Standards and Specifications

Table 6.11.d

Seed Mixes for Native Species (lbs/ac) When Mixed with 3, 4, or 5 Other Native Species (See Table 6.11.a for nurse crop species to be added to these mixes)

Species	3 Other (total 4 species)	4 Other (total 5 species)	5 Other (total 6 species)
Switch Grasses (A)	3.5 lbs.	3.0 lbs.	2.5 lbs.
Indian Grasses (B)	7.0 lbs.	6.0 lbs.	5.0 lbs.
Deertongue (C)	6.0 lbs.	5.0 lbs.	4.0 lbs.
Big Bluestem (D)	7.0 lbs.	6.0 lbs.	5.0 lbs.
Little Bluestem (E)	7.0 lbs.	6.0 lbs.	5.0 lbs.
Sweet Woodreed (F)	2.5 lbs.	2.0 lbs.	1.5 lbs.
Rice Cutgrass (G)	6.0 lbs.	5.0 lbs.	4.0 lbs.
Indian Woodoats (H)	2.5 lbs.	2.0 lbs.	1.5 lbs.
Virginia Wild Rye (I)	6.0 lbs.	5.0 lbs.	4.0 lbs.
Eastern Bottlebrush Grass (J)	2.5 lbs.	2.0 lbs.	1.5 lbs.
Soft Rush (K)	2.5 lbs.	2.0 lbs.	1.5 lbs.
Sedges (L)	2.5 lbs.	2.0 lbs.	1.5 lbs.

NOTE: With the native varieties, the seed mix should be in the range of 15 pounds per acre. Depending on availability of native seeds adaptable to North Carolina, the percentage of a particular variety used may be reduced or increased accordingly. Although diversity is desirable, it is imperative that the primary crop develop and become an effective protective cover. In addition to the native species mix, additional nurse crop species must be included to provide immediate stabilization and an adequate ground cover.

6.11.19

Rev. 5/08

Practice Standards and Specifications

APPROVED CONSTRUCTION PLAN

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_

Signed: \_\_\_\_\_

Planning \_\_\_\_\_

Traffic \_\_\_\_\_

Fire \_\_\_\_\_

Name \_\_\_\_\_ Date \_\_\_\_\_

24 HOUR CONTACT:  
ED UMSTEAD  
706-840-4988

APPROVED CONSTRUCTION PLAN  
DATED APRIL 14, 2021  
PROJECT # 2020051  
STORMWATER PERMIT # 2021004

No.	DATE	DESCRIPTION

CLIENT:  
SND MAYFAIRE, LLC  
943 BALDWIN PARK DR  
WILMINGTON, NC 28411  
CONTACT: STEPHEN UMSTEAD  
910-262-2831  
STEPHEN@PLASHDASHONLINE.COM

SPLASH N DASH MAYFAIRE  
1445 EASTWOOD RD  
CITY OF WILMINGTON,  
NEW HANOVER COUNTY  
NORTH CAROLINA

CONSTRUCTION  
DETAILS

DATE: MARCH 24, 2021  
PROJECT: 19-050

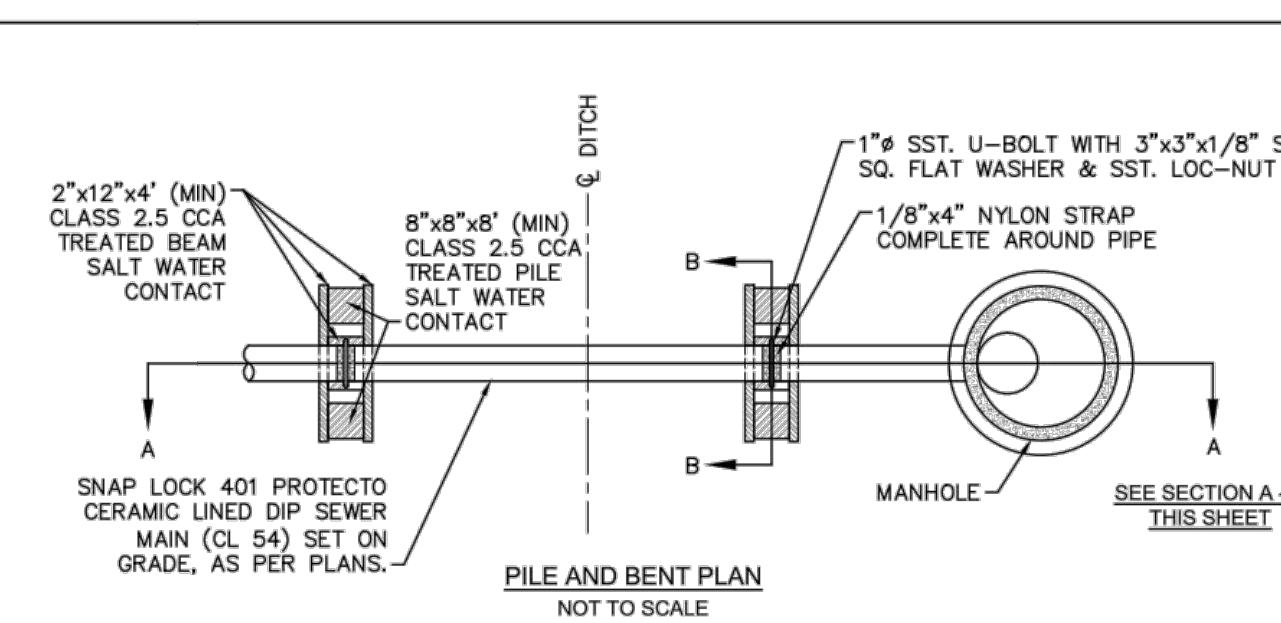
SHEET: C 812

**ONSITE**  
CIVIL GROUP

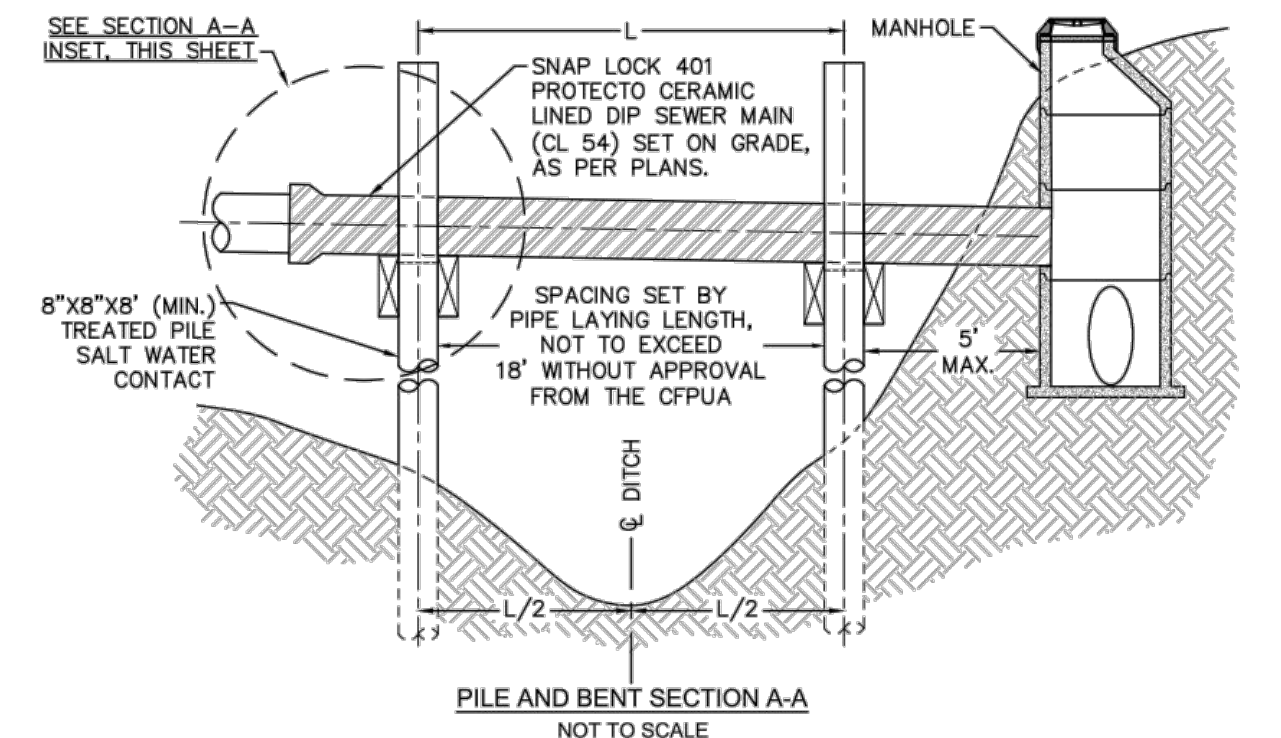
ONSITE CIVIL GROUP OF THE CAROLINAS, PLLC  
980 BIRMINGHAM RD, SUITE 501-540, MILTON, GA 30004  
WWW.ONSITECIVIL.COM INFO@ONSITECIVIL.COM

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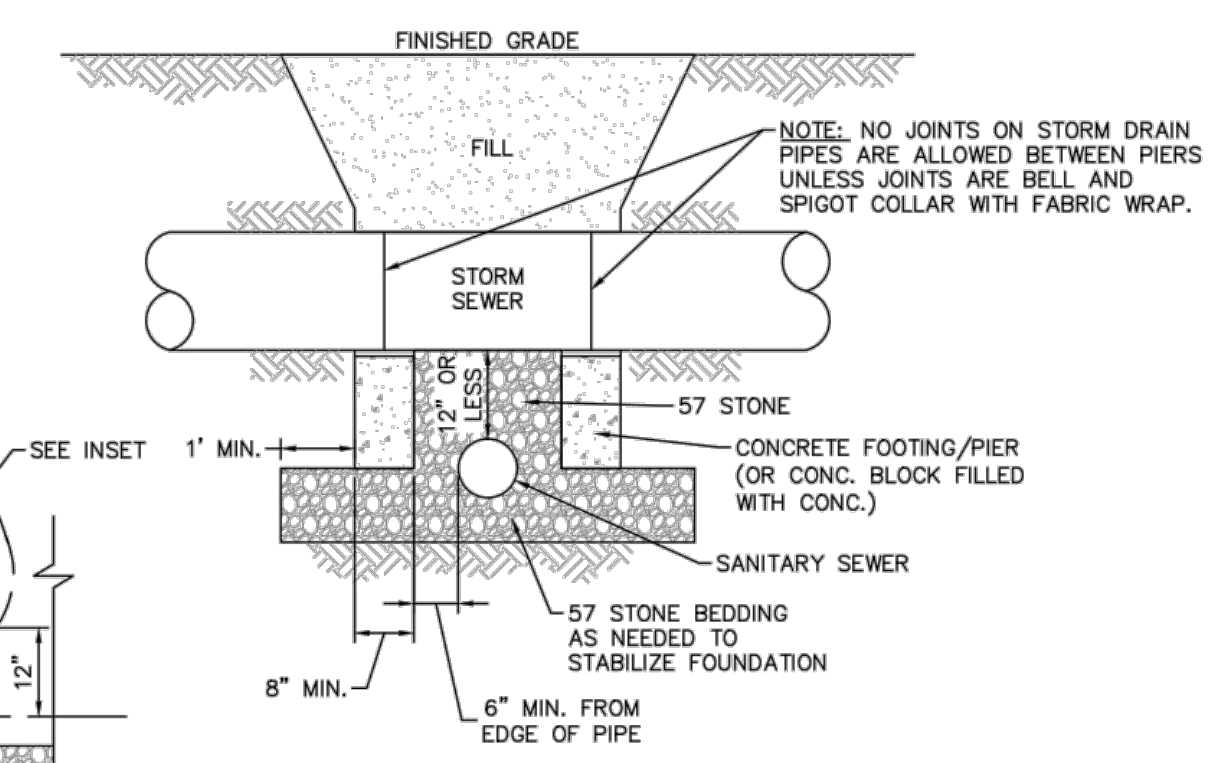
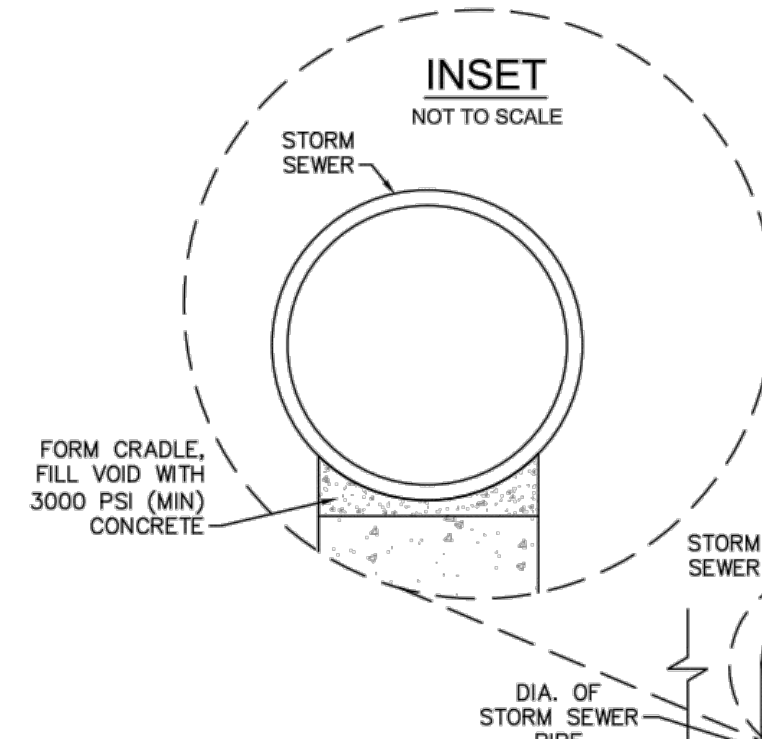
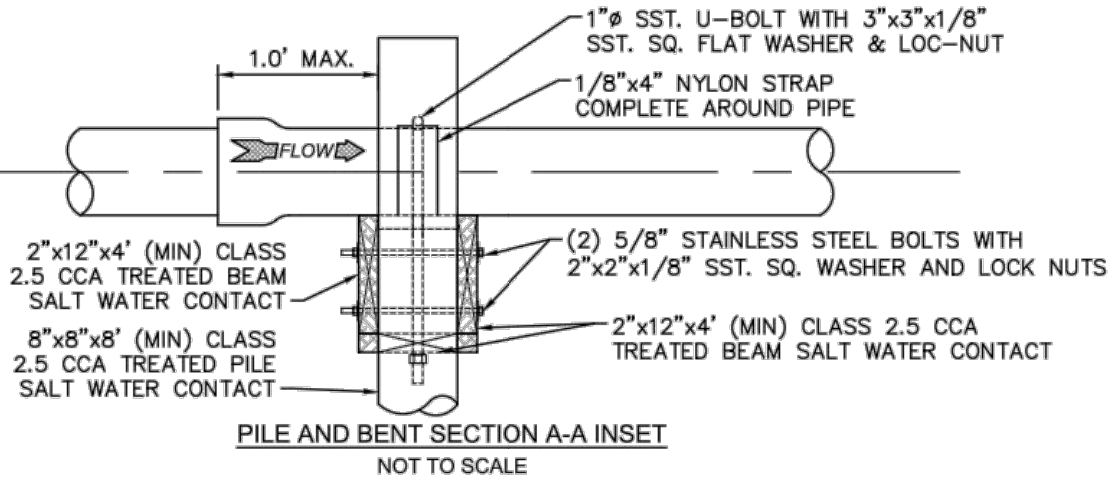
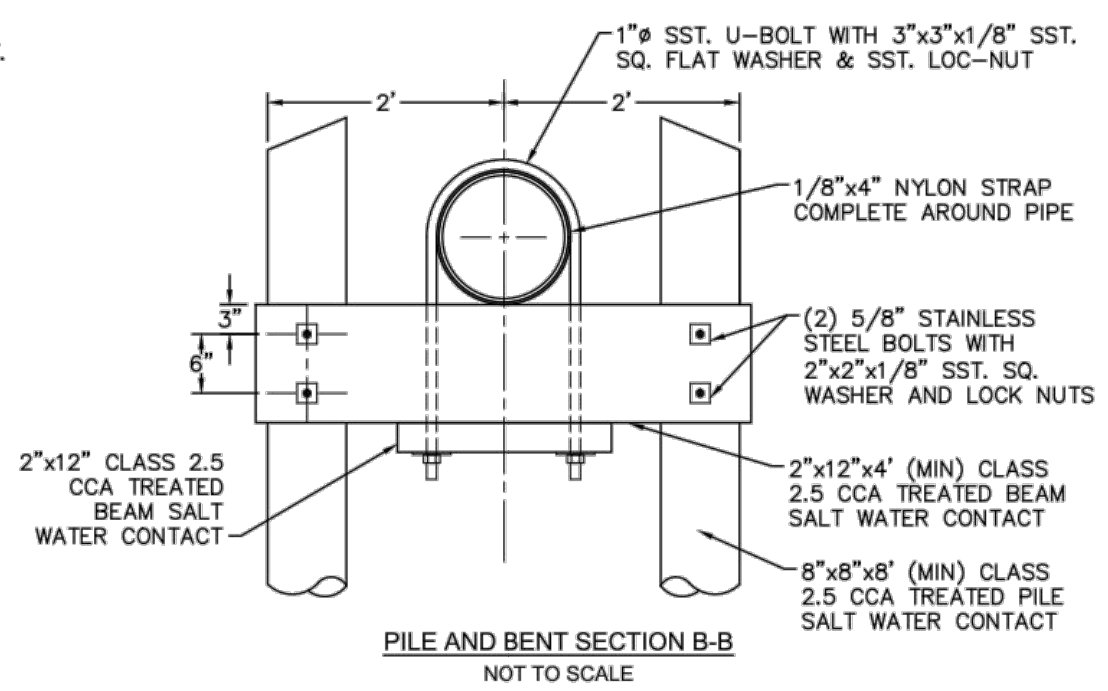
APPROVED CONSTRUCTION PLAN  
 DATED APRIL 14, 2021  
 PROJECT # 2020051  
 STORMWATER PERMIT # 2021004



- NOTES:**
1. PILES AND PILE DRIVING SHALL CONFORM TO NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, JANUARY 2002, SECTIONS 445, 450, 1082-2 & 1084-2.
  2. CENTERLINE OF BOLTS TO BE A MINIMUM OF 3" FROM OUTSIDE EDGE OF TIMBER. BOLTS TO BE A MINIMUM OF 3" CENTERLINE TO CENTERLINE.
  3. ALL STAINLESS STEEL SHALL BE 316. STAINLESS STRAP TO BE COLD FORMED.
  4. PILE SHALL NOT OBSTRUCT FLOW OR CAUSE EROSION OF DITCH/STREAM BANK.
  5. MIN. CLASS 54 DIP-ENGINEER MUST DESIGN LOADING.
  6. DESIGN SHALL BE APPROVED BY CFPUA.

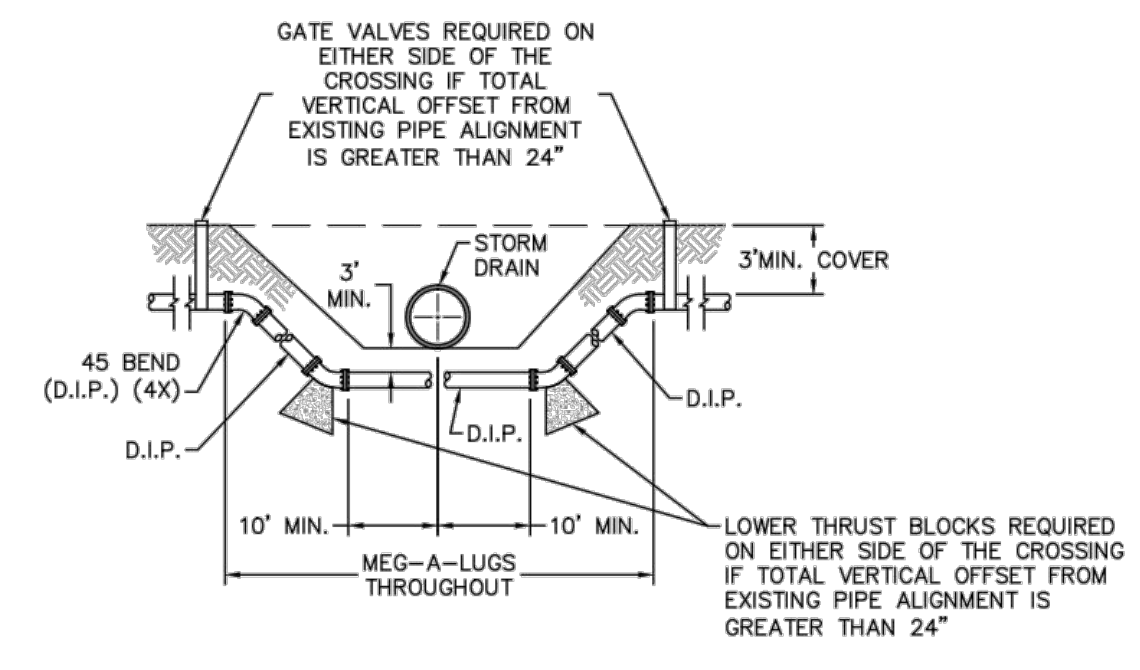


**SD-20 PILE AND BENT DETAIL**  
 NOT TO SCALE



**SD-24 STRUCTURAL BRIDGING DETAIL FOR STORMWATER OVER GRAVITY SEWER INSTALLATIONS WITH LESS THAN 12" SEPARATION**  
 NOT TO SCALE

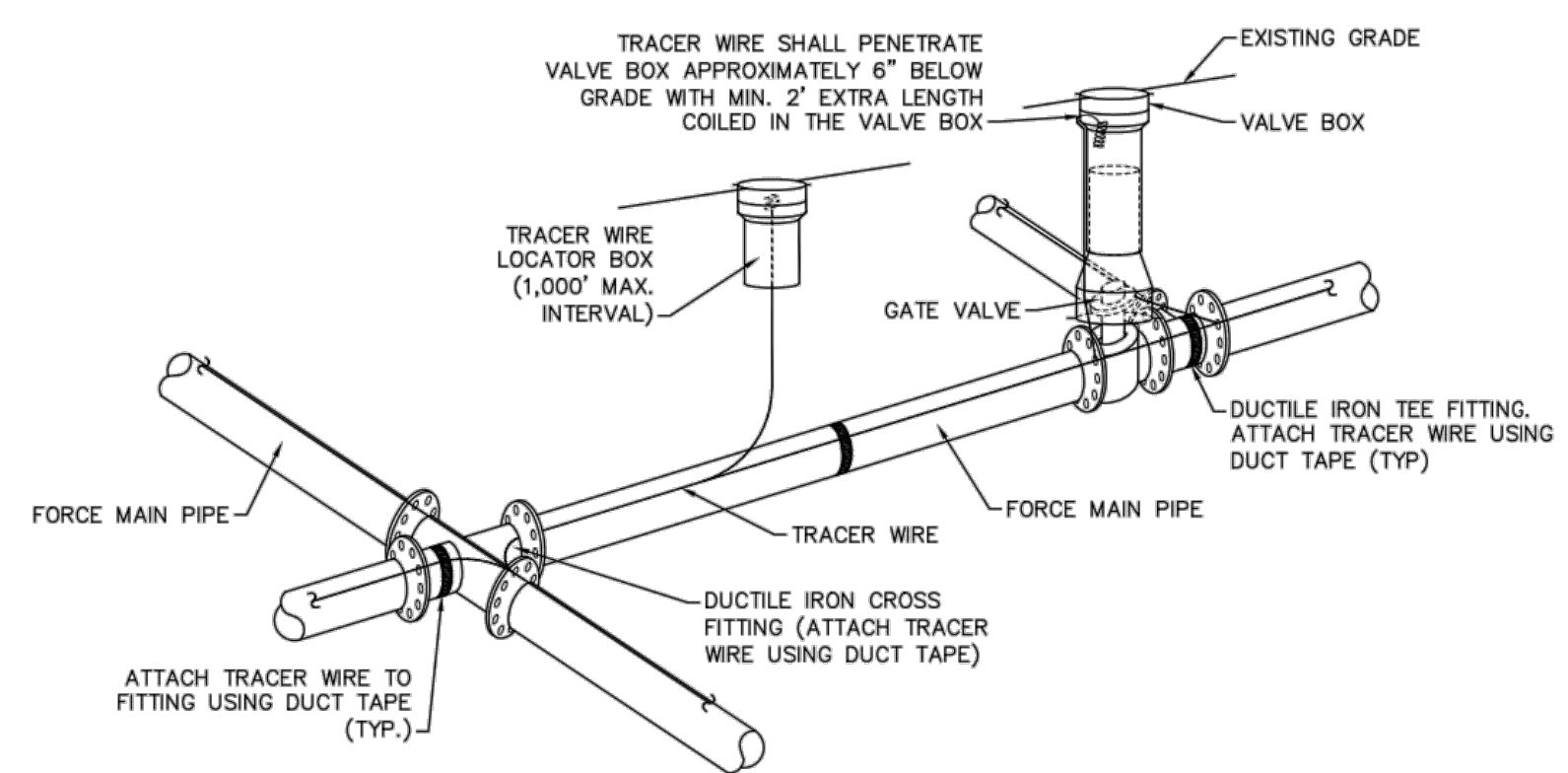
- THE FOLLOWING MUST BE FOLLOWED IN THE CASES OF GRAVITY SEWER UNDER STORM DRAIN:**
- A SEPARATION OF LESS THAN 12" BETWEEN STORM DRAIN AND GRAVITY SEWER, STORM DRAIN MUST BE BRIDGED.
  - A SEPARATION OF 12" TO LESS THAN 24" BETWEEN STORM DRAIN AND GRAVITY SEWER, GRAVITY SEWER CAN BE DIP OR STORM DRAIN CAN BE BRIDGED. (PER DWR REGULATIONS)
  - A SEPARATION OF 24" OR GREATER BETWEEN STORM DRAIN AND GRAVITY SEWER REQUIRES NO BRIDGING OR DIP.



**SD-18 FORCE MAIN DITCH AND STORM DRAIN CROSSING**  
 NOT TO SCALE

- GENERAL NOTES:**
1. NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.
  2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION BEGINS.
  3. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.
  4. THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.
  5. THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS).

**THE DETAILS SHOWN HEREON SUPERCEDE CFPUA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04**



- NOTES:**
1. TRACER WIRE SHALL BE #10 COPPER SOLID CORE COPPER WIRE WITH GAS AND OIL RESISTANT INSULATION.
  2. WIRE SHALL BE STRAPPED TO ALL PVC FORCE MAIN PIPING WITH DUCT TAPE AT 12 FOOT INTERVALS ALONG THE PIPE.
  3. SECURE WIRE TO ALL TEE AND CROSS FITTINGS WITH DUCT TAPE.
  4. ALL SPLICES IN THE WIRE SHALL BE MADE WITH 3M DBR DIRECT BURY SPLICE KIT AN UNDERGROUND RATED, WATERTIGHT, AND APPROVED SPLICE CONNECTOR OR APPROVED EQUAL.

**SD-21 TRACER WIRE DETAIL**  
 NOT TO SCALE

REV:	DESCRIPTION:	DATE:
1	ADDED NOTES TO THE STRUCTURAL BRIDGING DETAIL	03/11/15
2	Revised Tracer Wire Detail	10/20/15
3	Revised Force Main Ditch and Storm Drain Crossing Detail	02/15/16

**CFPUA SANITARY SEWER**

**STANDARD DETAILS**

**CAPE FEAR PUBLIC UTILITY AUTHORITY**  
 235 GOVERNMENT CENTER DRIVE  
 WILMINGTON, NC 28403  
 OFFICE: (910)332-6560

DATE: 1/9/12  
 SCALE: N/A  
 DRAWN BY: CFPUA  
 CHECKED BY: CFPUA  
 PROJECT NO.:  
 SHEET NO: **SSD-3**


**CLIENT:**  
 SND MAYFARE, LLC  
 943 BALDWIN PARK DR  
 WILMINGTON, NC 28411  
 CONTACT: STEPHEN UMSTEAD  
 910-262-2831  
 STEPHEN@SPASHNDASHONLINE.COM

**SPLASH N DASH MAYFARE**  
 1445 EASTWOOD RD  
 CITY OF WILMINGTON,  
 NEW HANOVER COUNTY  
 NORTH CAROLINA

**CONSTRUCTION DETAILS**

DATE: MARCH 24, 2021  
 PROJECT: 19-050

SHEET: **C 813**

**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN

APPROVED CONSTRUCTION PLAN  
 Name \_\_\_\_\_ Date \_\_\_\_\_

Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
 Signed: \_\_\_\_\_

Planning \_\_\_\_\_  
 Traffic \_\_\_\_\_  
 Fire \_\_\_\_\_

**24 HOUR CONTACT:**  
 ED UMSTEAD  
 706-840-4988

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