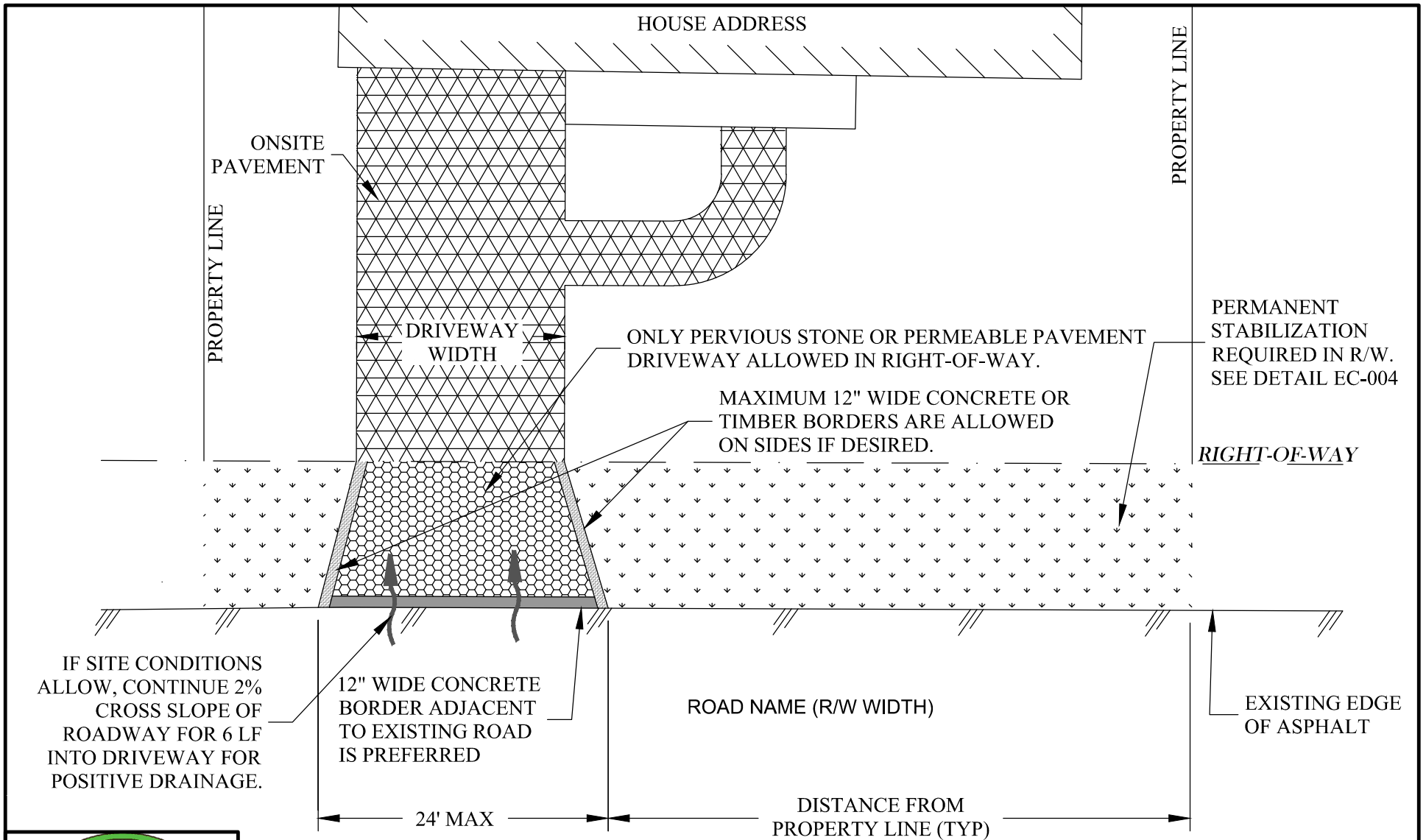


DETAIL #	DETAIL NAME
EC-001A	SILT FENCE 1 OF 2
EC-001B	SILT FENCE 2 OF 2
EC-002	STABILIZATION TIMEFRAMES
EC-003	TEMPORARY SEEDING
EC-004	PERMANENT SEEDING
EC-005	RESIDENTIAL CONSTRUCTION ENTRANCE
EC-006	COMMERCIAL CONSTRUCTION ENTRANCE
EC-007	WIRE MESH & STONE INLET PROTECTION
EC-008	CONCRETE WASHOUT
EC-009	PIPE OUTLET STABILIZATION
EC-010A	ROLLED EROSION CONTROL PRODUCTS 1 OF 2
EC-010B	ROLLED EROSION CONTROL PRODUCTS 2 OF 2
EC-011	SILT SOCK / WATTLE FOR CHECK DAM
EC-012	ROCK CHECK DAM

SW-001	DRIVEWAY IN RIGHT-OF-WAY
SW-002	PERVIOUS STONE DRIVEWAY
SW-003	PERMEABLE PAVEMENT DRIVEWAY
SW-004	EXAMPLE CALCULATIONS FOR INFILTRATION TRENCH
SW-005	EXAMPLE CALCULATIONS QUICK4 CHAMBER
SW-006	ROOF DOWNSPOUT TO INFILTRATION TRENCH
SW-007	ROOF DOWNSPOUT TO QUICK4 CHAMBER
SW-008	QUICK4 PLUS STANDARD CHAMBER PROFILE
SW-009	QUICK4 CHAMBER UNDER DRIVEWAY
SW-010	IMPERVIOUS DRIVEWAY TO INFILTRATION TRENCH
SW-011	IMPERVIOUS POOL PATIO TO INFILTRATION TRENCH
SW-012	ACCESSORY STRUCTURE TO INFILTRATION TRENCH



NOT TO SCALE



TOWN OF OAK ISLAND

OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

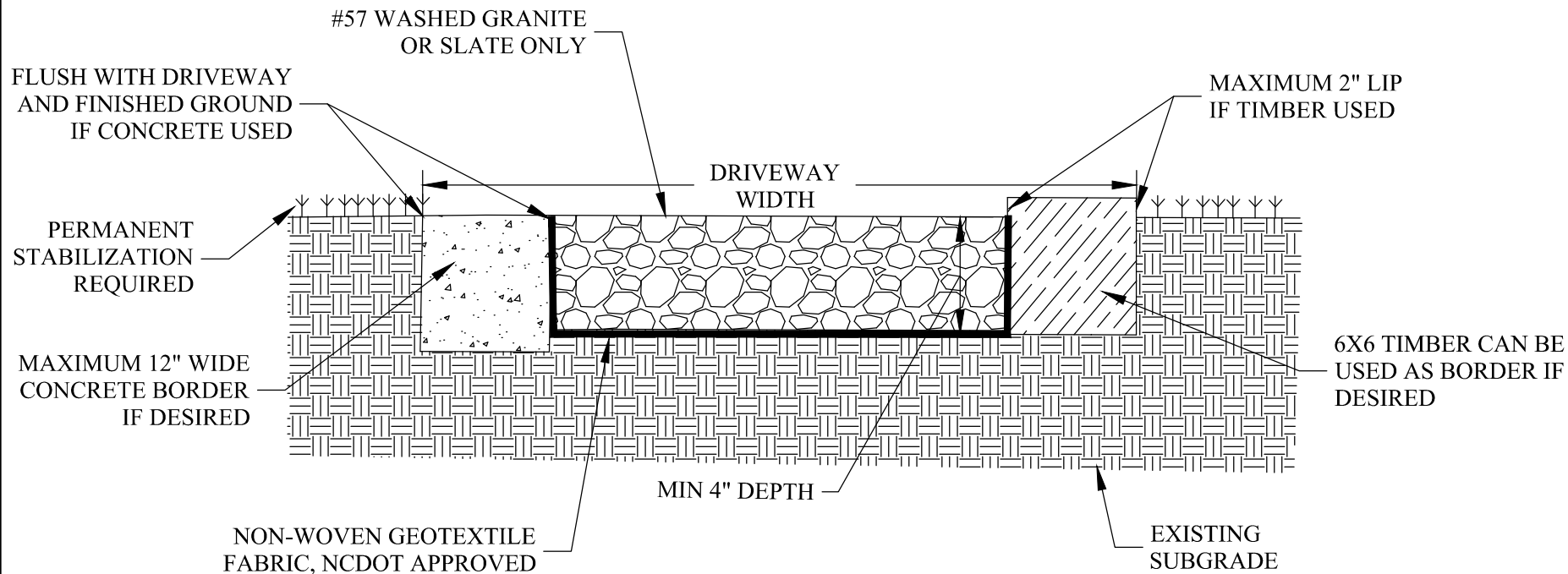
STORMWATER STANDARD DETAILS

DRIVEWAY IN
RIGHT-OF-WAY

DATE : DECEMBER 2024

DWG. NO: SW-001

RELEASED BY: _____



NOT TO SCALE

TOWN OF OAK ISLAND

OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

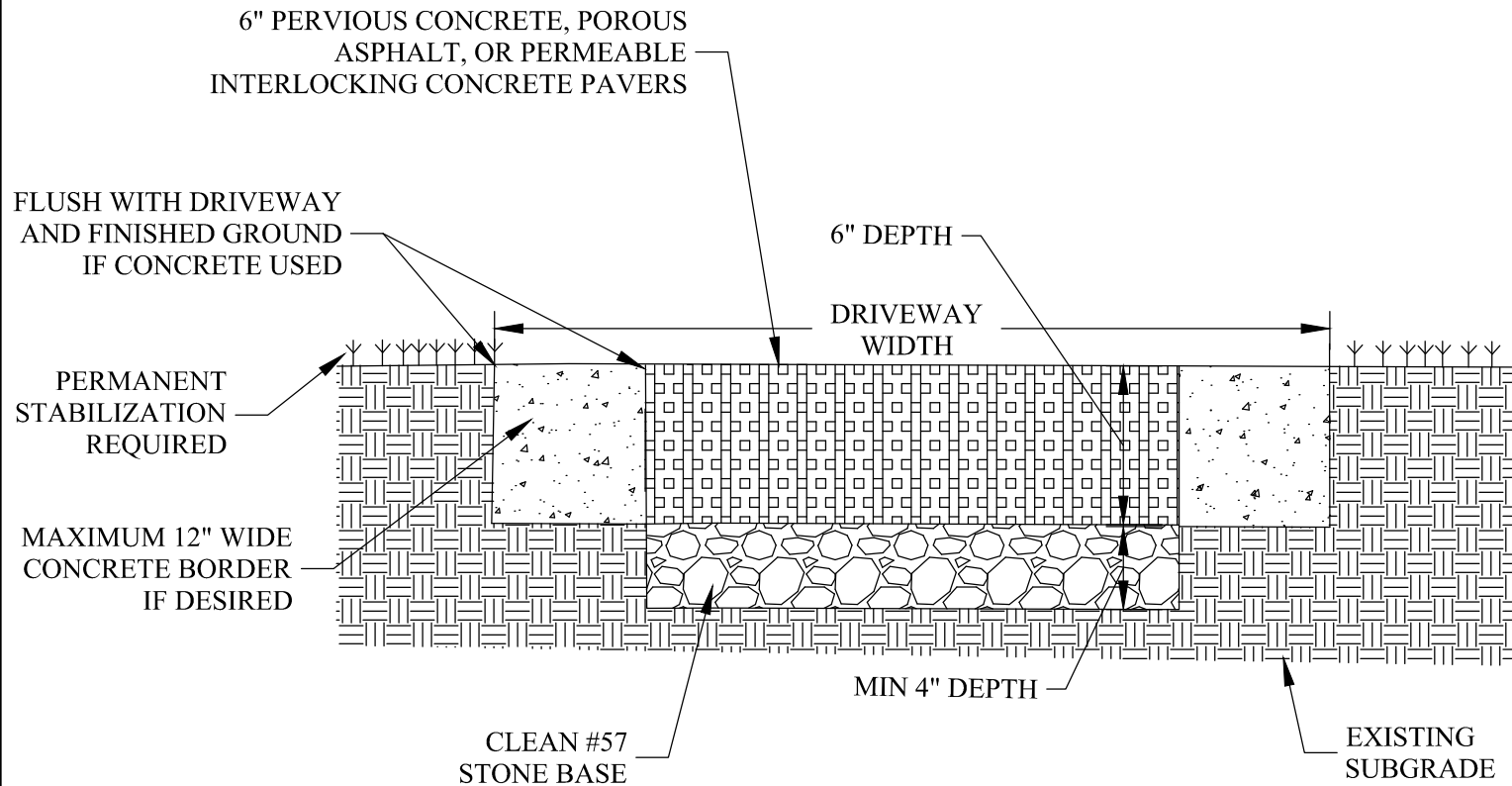
STORMWATER STANDARD DETAILS

PERVIOUS STONE
DRIVEWAY

DATE : DECEMBER 2024

DWG. NO: SW-002

RELEASED BY: _____



NOT TO SCALE



TOWN OF OAK ISLAND

OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

STORMWATER STANDARD DETAILS

PERMEABLE PAVEMENT
DRIVEWAY

DATE : DECEMBER 2024

DWG. NO: SW-003

RELEASED BY: _____

LOT AREA: 6,600 SF

TOTAL IMPERVIOUS AREA: 2,665 SF

PERCENT IMPERVIOUS: $2,665 \text{ SF} / 6,600 \text{ SF} = 40\%$ *

* WHERE SITE EXCEEDS 30% IMPERVIOUS, A STORMWATER PLAN SEALED BY A PROFESSIONAL ENGINEER OR SURVEYOR IS REQUIRED. MAXIMUM 45% IMPERVIOUS AREA ALLOWED

#57 CLEAN WASHED STONE PROVIDES 40% VOID SPACE STORAGE VOLUME

STORAGE REQUIRED FOR HOUSE ROOF AREA (1.5" RUNOFF):

IF ROOF AREA = 2,171 SF

$2,171 \text{ SF} \times 1.5/12 = 271.4 \text{ CF}$ STORAGE REQUIRED

TRY TRENCH D = 3', W = 3.5'; $3.0 \times 3.5 \times 0.4$ (40% VOIDS) = 4.2 CF STORAGE PROVIDED PER LF OF 3.0' X 3.5' TRENCH

LENGTH OF INFILTRATION TRENCH REQUIRED: $271.4 \text{ CF} / 4.2 \text{ CF} = 64.6$ OR 65 LINEAR FEET

(2) - 3.0' X 3.5' X 32.5' INFILTRATION TRENCH WITH #57 WASHED STONE PROVIDED

STORAGE REQUIRED FOR IMPERVIOUS DRIVEWAY (1.5" RUNOFF):

$494 \text{ SF} \times 1.5/12 = 61.8 \text{ CF}$

D = 3', W = 3.5'; $3.0 \times 3.5 \times 0.4$ (40% VOIDS) = 4.2 CF STORAGE PROVIDED PER LF OF 3.0' X 3.5' TRENCH

LENGTH OF INFILTRATION TRENCH REQUIRED: $61.8 \text{ CF} / 4.2 \text{ CF} = 14.7$ OR 15 LINEAR FEET

(1) - 3.0' X 3.5' X 15' INFILTRATION TRENCH WITH #57 WASHED STONE PROVIDED

NOTE: TREATMENT FOR HOUSE SHALL BE SEPARATED FROM TREATMENT FOR DRIVEWAY BY A MINIMUM OF 3'



TOWN OF OAK ISLAND

OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

STORMWATER STANDARD DETAILS

EXAMPLE CALCULATIONS
INFILTRATION TRENCH

DATE : DECEMBER 2024

DWG. NO: SW-004

RELEASED BY: _____

LOT AREA: 6,600 SF

TOTAL IMPERVIOUS AREA: 2,665 SF

PERCENT IMPERVIOUS: $2,665 \text{ SF} / 6,600 \text{ SF} = 40\% *$

* WHERE SITE EXCEEDS 30% IMPERVIOUS, A STORMWATER PLAN SEALED BY A PROFESSIONAL ENGINEER OR SURVEYOR IS REQUIRED. MAXIMUM 45% IMPERVIOUS AREA ALLOWED.

3' X 3.5' X 4' QUICK4 STANDARD CHAMBER DETAIL (SEE DETAIL SW-008) PROVIDES 22.1 CF OF STORAGE

STORAGE REQUIRED FOR HOUSE ROOF AREA (1.5" RUNOFF):

$2,171 \text{ SF} \times 1.5/12 = 271.4 \text{ CF} / 22.1 \text{ CF} = 12.3 \text{ OR } 13 \text{ CHAMBERS REQUIRED}$

STORAGE REQUIRED FOR IMPERVIOUS DRIVEWAY (1.5" RUNOFF):

$494 \text{ SF} \times 1.5/12 = 61.8 \text{ CF} / 22.1 \text{ CF} = 2.8 \text{ OR } 3 \text{ CHAMBERS REQUIRED}$

NOTE: TREATMENT FOR HOUSE SHALL BE SEPARATED FROM TREATMENT FOR DRIVEWAY BY A MINIMUM OF 3'



TOWN OF OAK ISLAND

OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

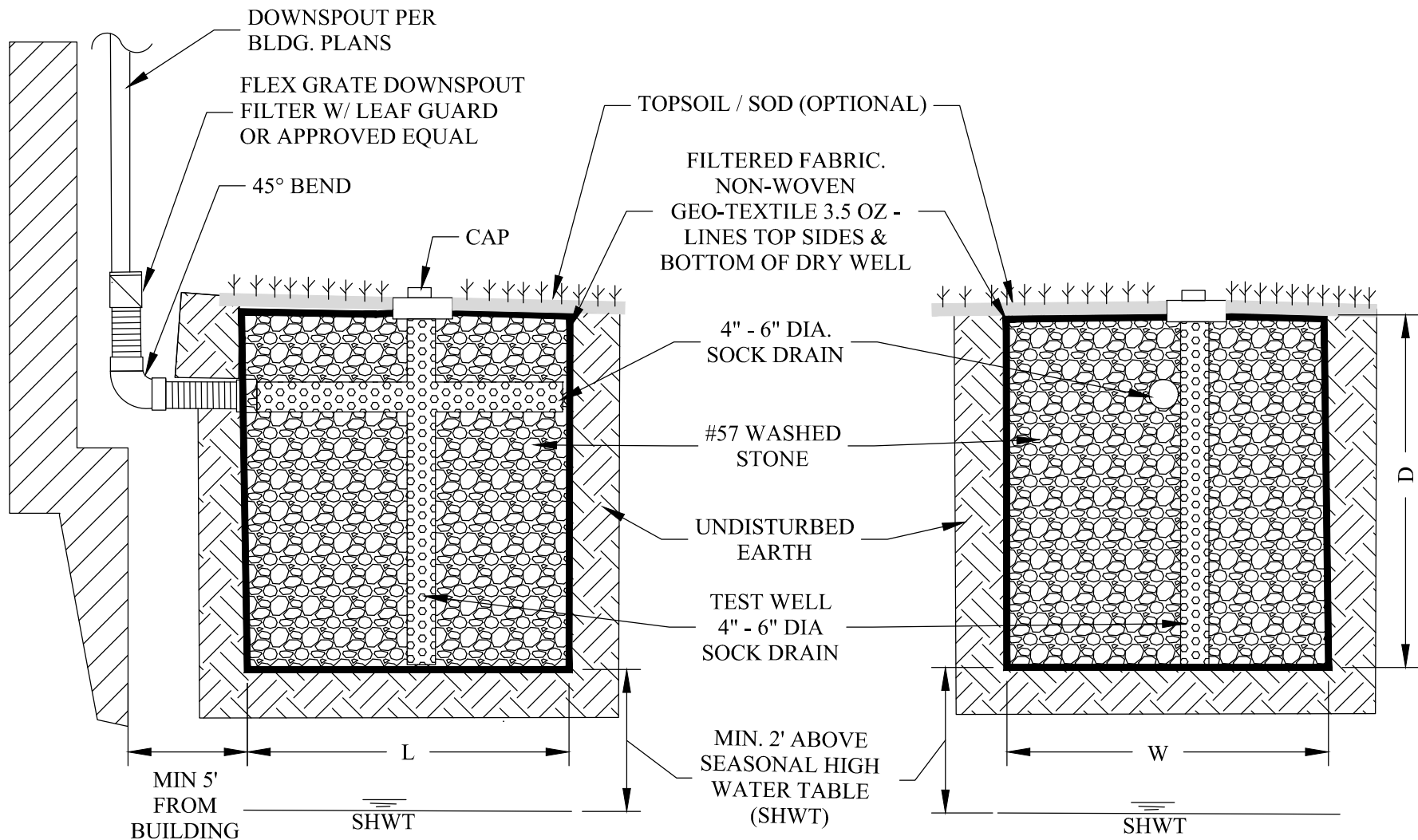
STORMWATER STANDARD DETAILS

EXAMPLE CALCULATIONS
QUICK4 CHAMBER

DATE : DECEMBER 2024

DWG. NO: SW-005

RELEASED BY: _____



NOT TO SCALE



TOWN OF OAK ISLAND

OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

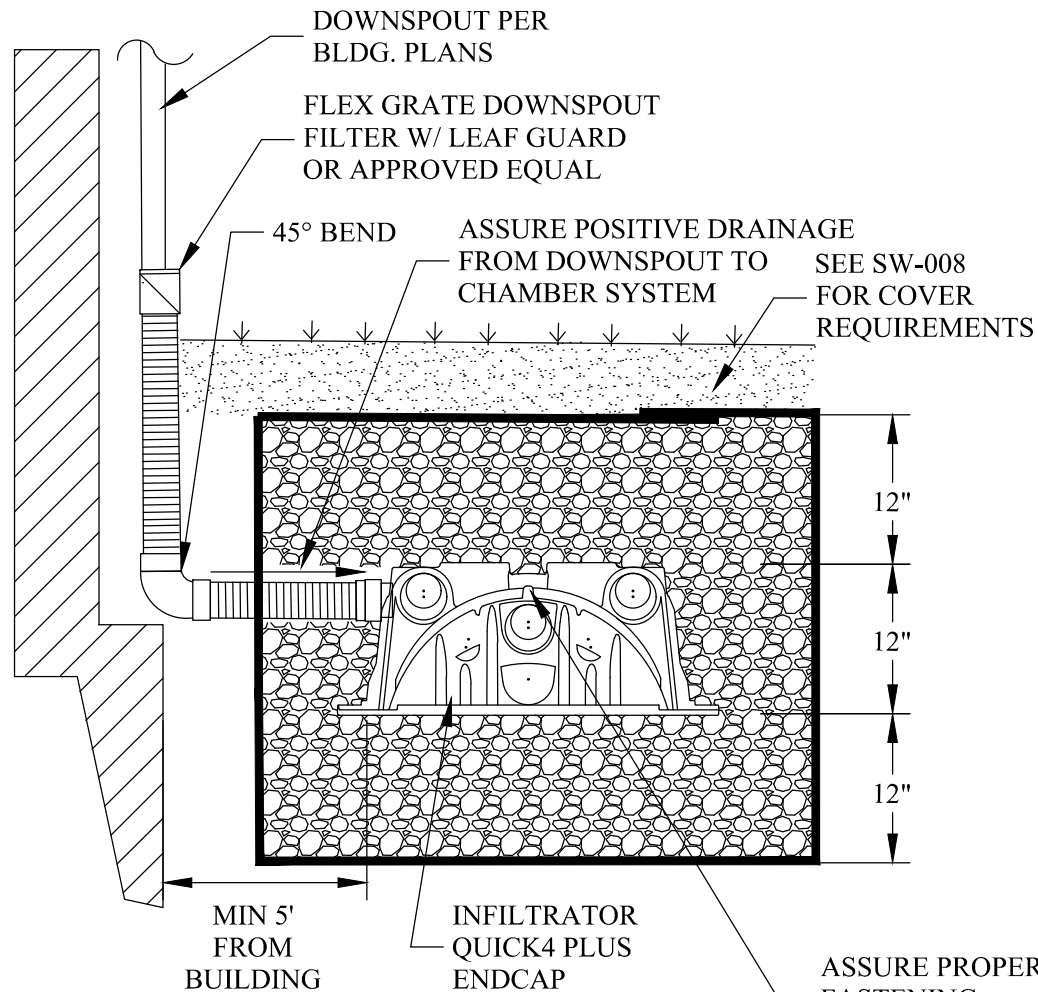
STORMWATER STANDARD DETAILS

ROOF DOWNSPOUT TO
INFILTRATION TRENCH

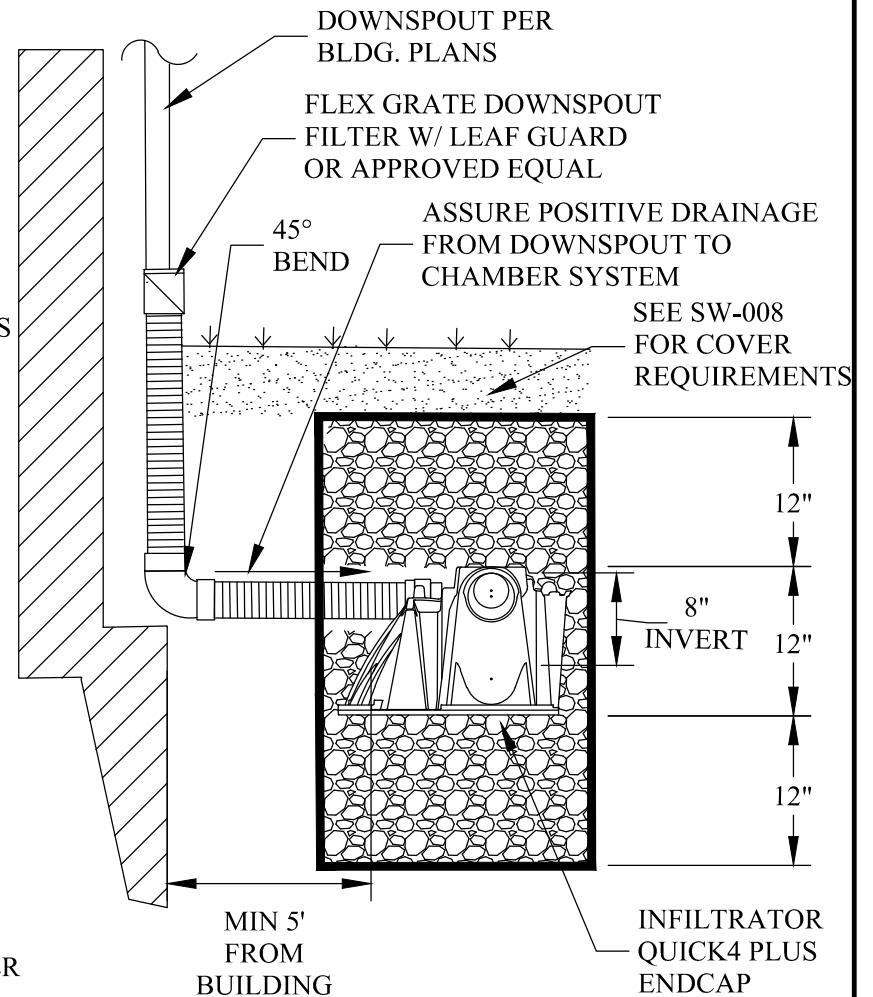
DATE : DECEMBER 2024

DWG. NO: SW-006

RELEASED BY: _____



FRONT VIEW



SIDE VIEW

NOT TO SCALE



TOWN OF OAK ISLAND

OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

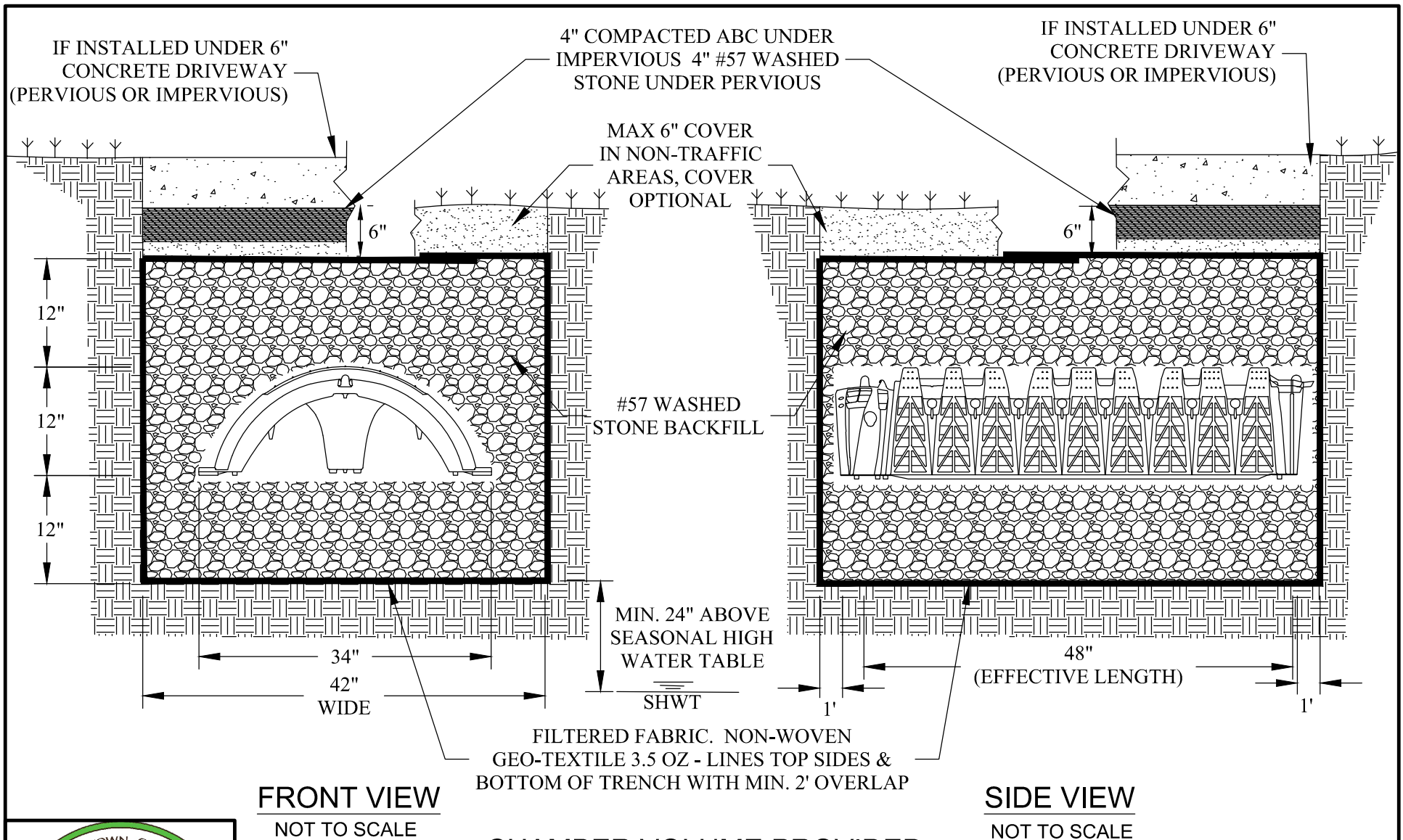
STORMWATER STANDARD DETAILS

ROOF DOWNSPOUT TO
QUICK4 CHAMBER

DATE : DECEMBER 2024

DWG. NO: SW-007

RELEASED BY: _____



CHAMBER VOLUME PROVIDED

3.0' X 3.5' TRENCH = 22.1 CF PER 4-FT CHAMBER LENGTH



TOWN OF OAK ISLAND

OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

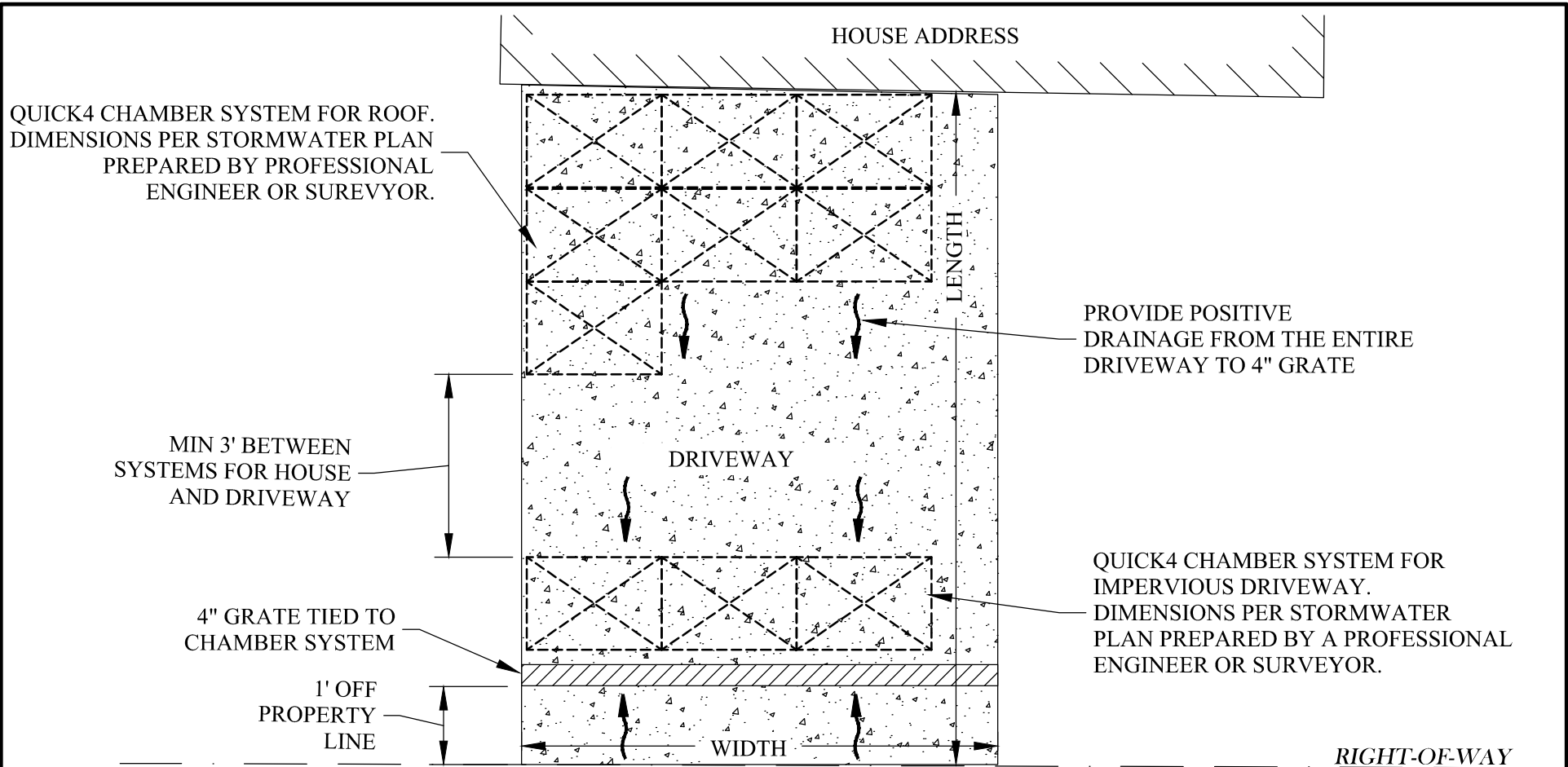
STORMWATER STANDARD DETAILS

QUICK4 PLUS STANDARD
CHAMBER PROFILE

DATE : DECEMBER 2024

DWG. NO: SW-008

RELEASED BY: _____



PLAN VIEW
NOT TO SCALE

SEE SAMPLE CALCULATIONS
ON DETAIL SW-005.

TOWN OF OAK ISLAND

OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

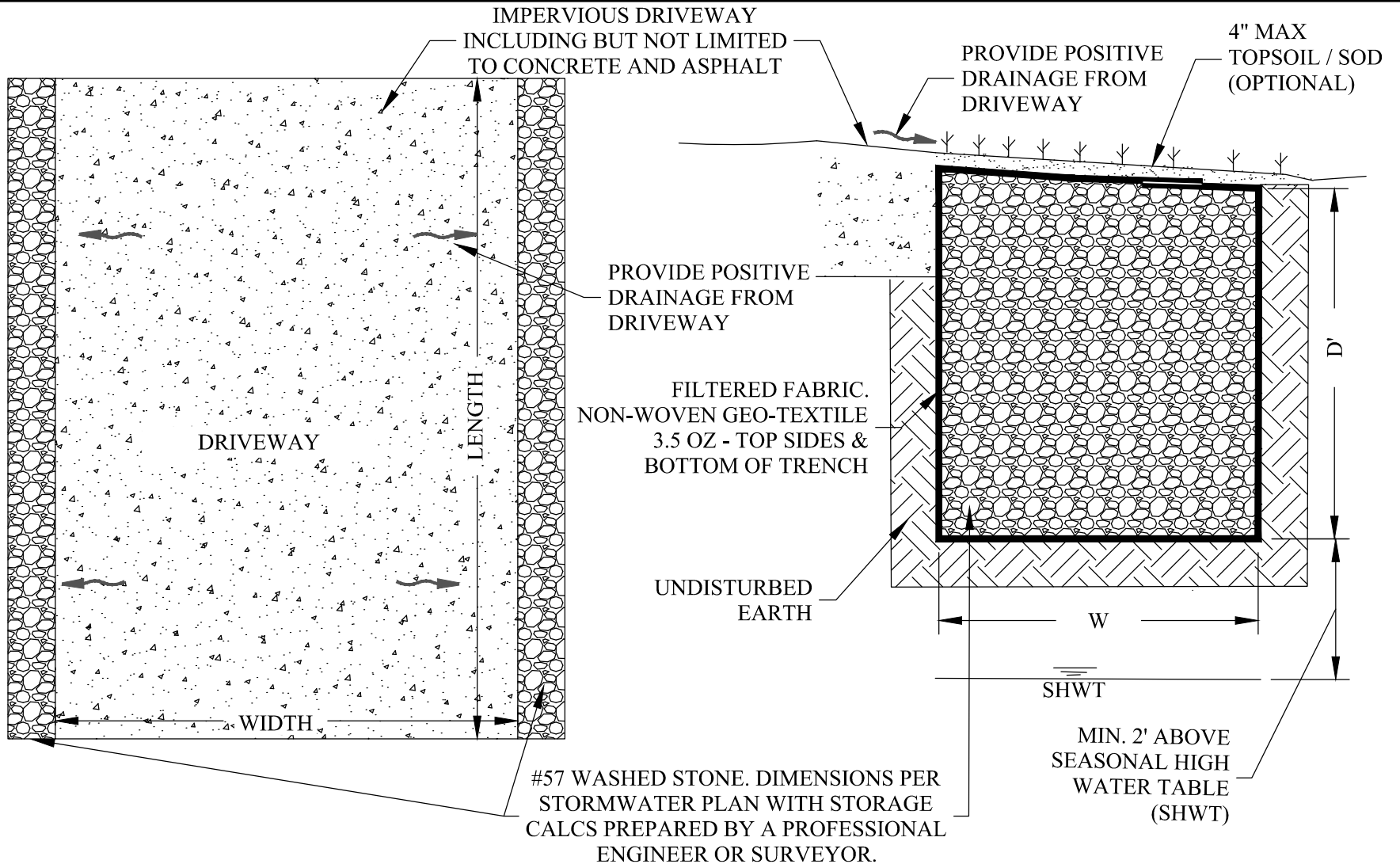
STORMWATER STANDARD DETAILS

**QUICK4 CHAMBER UNDER
DRIVEWAY**

DATE : DECEMBER 2024

DWG. NO: SW-009

RELEASED BY: _____



PLAN VIEW

NOT TO SCALE

PROFILE VIEW

NOT TO SCALE

TOWN OF OAK ISLAND

OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

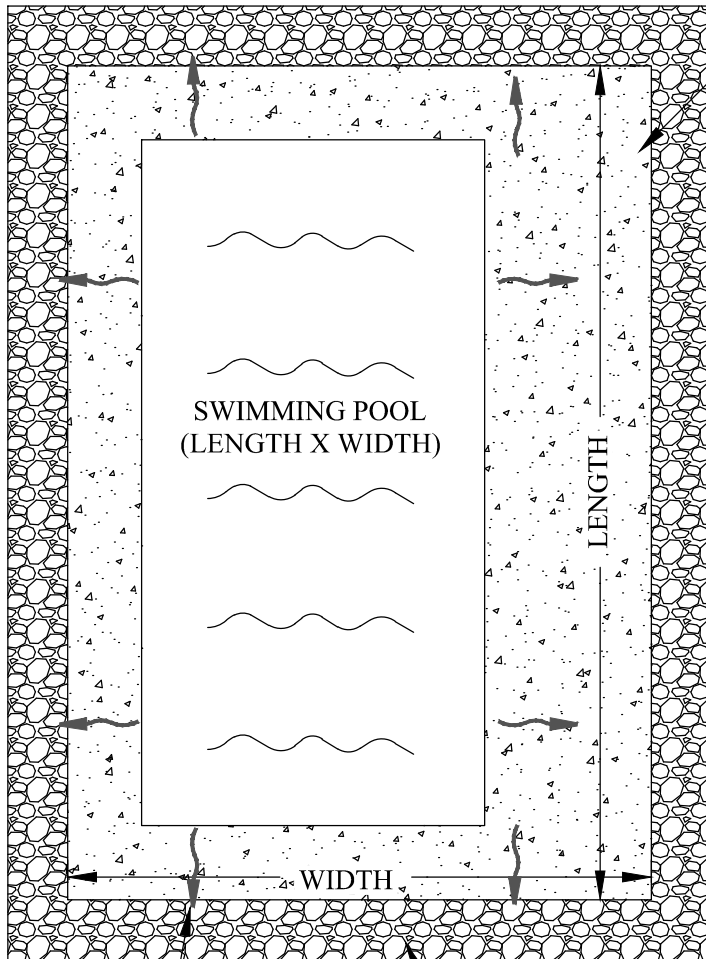
STORMWATER STANDARD DETAILS

IMPERVIOUS DRIVEWAY
TO INFILTRATION TRENCH

DATE : DECEMBER 2024

DWG. NO: SW-010

RELEASED BY: _____



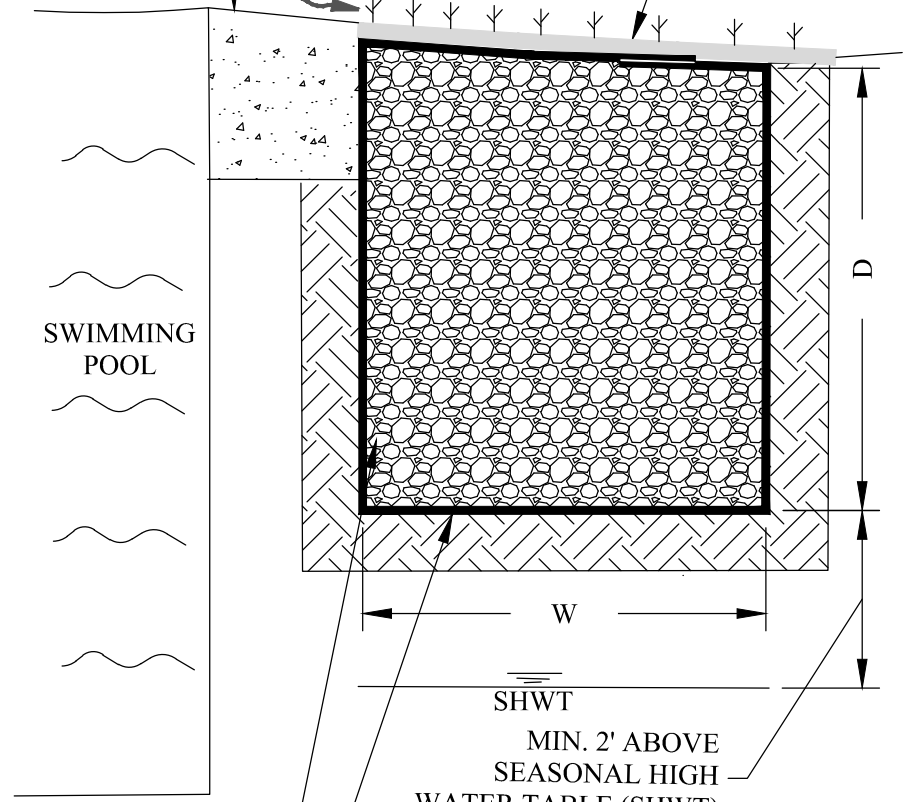
CONCRETE PATIO
OR IMPERVIOUS
SURFACE
AROUND POOL

PROVIDE POSITIVE
DRAINAGE FROM
CONCRETE

TOPSOIL / SOD
(OPTIONAL)

PROVIDE POSITIVE
DRAINAGE FROM
CONCRETE

#57 WASHED STONE. DIMENSIONS PER
STORMWATER PLAN PREPARED BY A
PROFESSIONAL ENGINEER OR SURVEYOR.
SEE EXAMPLE CALCULATIONS SW-004.



PROFILE VIEW
NOT TO SCALE

PLAN VIEW
NOT TO SCALE



TOWN OF OAK ISLAND

OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

STORMWATER STANDARD DETAILS

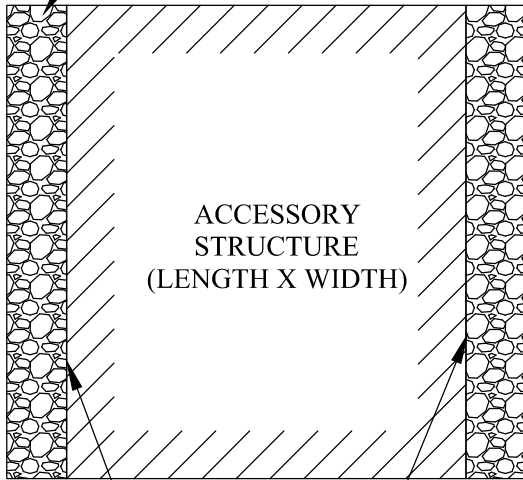
**IMPERVIOUS POOL PATIO
TO INFILTRATION TRENCH**

DATE : DECEMBER 2024

DWG. NO: SW-011

RELEASED BY: _____

#57 WASHED STONE. DIMENSIONS PER
STORMWATER PLAN PREPARED BY A
PROFESSIONAL ENGINEER OR SURVEYOR.
SEE EXAMPLE CALCULATIONS SW-004.



PLAN VIEW
NOT TO SCALE

FOR FLAT ROOF,
ASSURE RUNOFF IS
DIRECTED TO TRENCH

DRIP LINE

TOPSOIL / SOD
(OPTIONAL)

FILTERED FABRIC.
NON-WOVEN GEO-TEXTILE
3.5 OZ - TOP SIDES &
BOTTOM OF TRENCH

#57 WASHED STONE. DIMENSIONS PER
STORMWATER PLAN PREPARED BY A
PROFESSIONAL ENGINEER OR SURVEYOR.
SEE EXAMPLE CALCULATIONS SW-004.

MIN. 2' ABOVE
SEASONAL HIGH
WATER TABLE
(SHWT)

SHWT

PROFILE VIEW
NOT TO SCALE

ACCESSORY
STRUCTURE /
RESIDENCE W/
NO GUTTERS

UNDISTURBED
EARTH



TOWN OF OAK ISLAND

OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

STORMWATER STANDARD DETAILS

ACCESSORY STRUCTURE TO
INFILTRATION TRENCH

DATE : DECEMBER 2024

DWG. NO: SW-012

RELEASED BY: _____

UNDER
CONSTRUCTION



TOWN OF OAK ISLAND

OAK ISLAND, SMITHVILLE TOWNSHIP
BRUNSWICK COUNTY, NORTH CAROLINA

STORMWATER STANDARD DETAILS

**DRIVEWAY TREATED
TIMBER HEADWALL**

DATE : DECEMBER 2024

DWG. NO: SW-013

RELEASED BY: _____