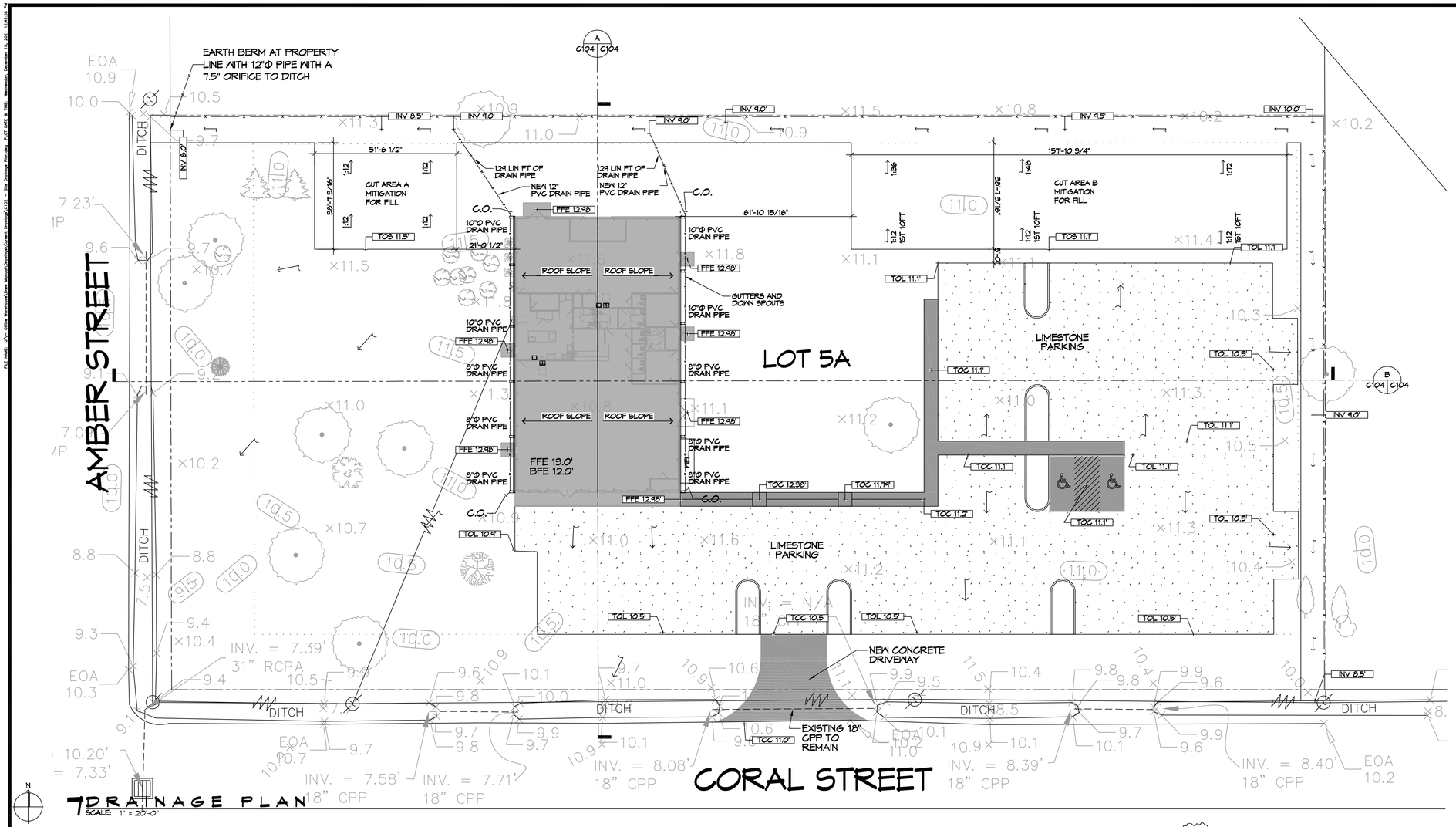


DRAINAGE PLAN

SCALE: 1" = 20'-0"

DRAINAGE NOTES

1. DRAIN PIPE AND FITTINGS WITHIN PROPERTY LINE SHALL BE POLYVINYL CHLORIDE PLASTIC PIPE, MEETING CLASS 100 C-900 PVC.
2. ELEVATIONS SHOWN ARE MSL.
3. FIELD VERIFY ALL ELEVATIONS AND AND DRAINAGE SYSTEM PLACEMENT PRIOR TO START OF WORK.
4. PROVIDE VERTICAL ELBOW AT DOWNSPOUTS FOR CONNECTION TO SUBSURFACE DRAINAGE WHERE INDICATED. ELBOW ID SHALL BE SIZED SUCH THAT THE DOWNSPOUT CAN BE INSERTED INTO THE PIPE OPENING WITHOUT DEFORMATION TO THE DOWNSPOUT.

DRAINAGE LEGEND

- TOS XXX.X — TOP OF SWALE
- TOL XXX.X — TOP OF LIMESTONE ELEVATION
- TOC XXX.X — TOP OF CONCRETE ELEVATION
- INV XXX.X — INVERT OF PIPE ELEVATION
- "18" — SUB-SURFACE DRAINAGE PVC WITH DIRECTION OF FLOW ARROW, SEE PLAN FOR SIZE OF PVC
- DS — SUB-SURFACE DRAINAGE PVC AT BUILDING WITH DOWN SPOUTS (DS) FROM ROOF GUTTERS

CUT/FILL CALCULATIONS

1. BFE = 12.0'. ALL CALCULATIONS WERE BASED ON EXISTING ELEVATIONS UP TO BFE.
2. FILL CALCS:

SECTION A :
(15.51 s.f. x10ft Rear Landing Pad) +
(5.18 s.f. x 60 ft Front Porch) +
(12.3 X 60 ft Front Porch Slope to Parking) = 1,204 cu ft

Additional fill for sidewalk to ADA parking. 5.18 s.f. x 57 ft = 295 cu ft

SECTION B :
(67.46 s.f. x 100 ft Building Pad) +
(19.43 s.f. x 35 ft (Landing Pads)) = 7,426 cu ft

PARKING AREA:
22 s.f. x .5 ft x 6 PLANTING AREAS = 66 cu ft
VOLUME TO OFFSET DUE TO FILL = 8,991 cu ft.

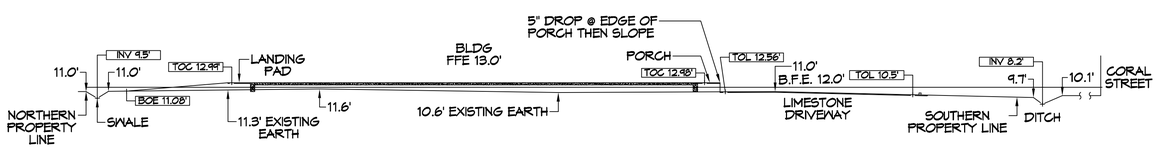
3. VOLUME OF RAIN WATER DETENTION = 2,401 cu ft
TOTAL VOLUME TO ACCOUNT FOR = 11,392 cu ft

4. CUT CALCS

A. Cut calcs from swale excluding cut area's A & B
Avg existing elevation before :
(11.3 + 11.0 + 11.0 + 10.2) / 4 = 10.8 ft
Avg depth of new swale :
(9.0 + 8.0) / 2 = 8.5 ft
Using the avg existing elevation and avg depth the avg Cut area = 7.8 s.f.
Length of swale = 406 ft - 51.5 (Cut A) - 157.8 (Cut B) = 196.7 ft
Therefore 7.8 s.f. x 196.7 ft = 1,534 cu ft

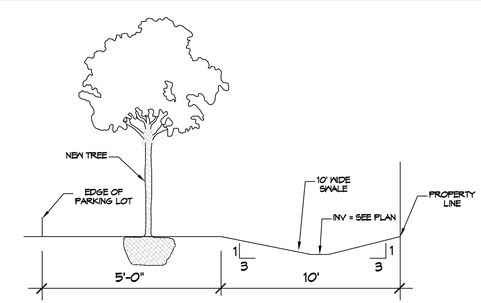
B. CUT CALCS AREA A
(10.2 + 61.1 s.f.) / 2 = 65.6 s.f. x 51.5 ft = 3,378 cu ft

C. CUT CALCS AREA B
(69 + 48 + 32 s.f.) / 3 = 49.6 s.f. x 157.8 ft = 7,837 cu ft
TOTAL CUT AREA = 12,749 cu ft



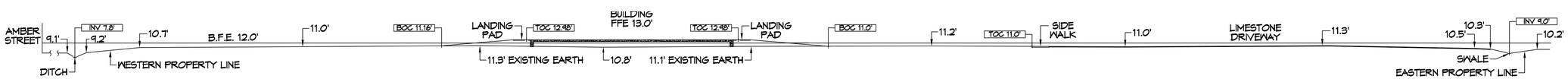
A CROSS SECTION

C104 | C104 SCALE: 1/16" = 1'-0"



SWALE AND PLANTABLE AREA

SCALE: N.T.S.



B CROSS SECTION

C104 | C104 SCALE: 1/16" = 1'-0"

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#	DESCRIPTION	DATE

REVISIONS

STATE OF LOUISIANA — BRIAN A. MISTICH — License No. 30187 — PROFESSIONAL ENGINEER

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DREW MANUAL
4008 CORAL STREET
SLIDELL, LA 70461

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SHEET TITLE:
SITE DRAINAGE PLAN

DRAWING NUMBER:
C102

SHEET No: 4 of 12