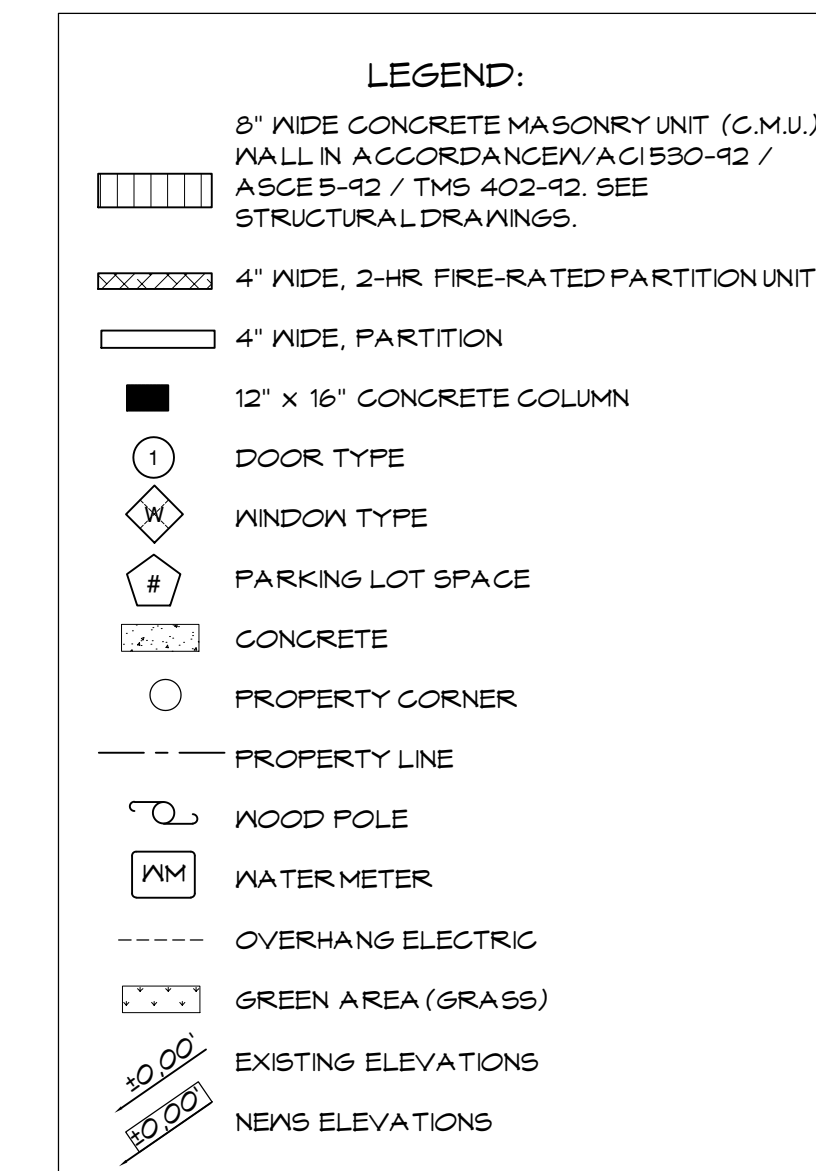
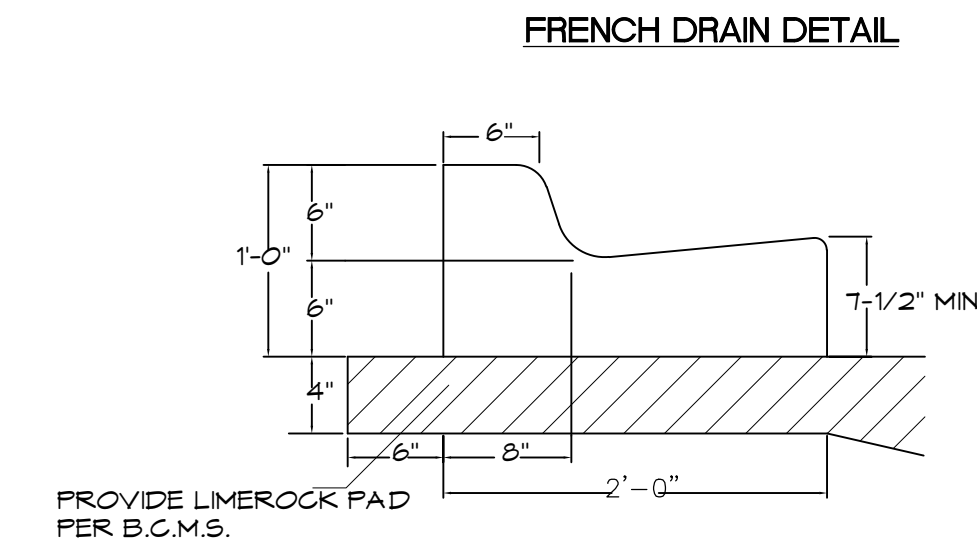


EXFILTRATION TRENCH W/ SAND FILTER DETAIL



- NOTES:
1. PLASTIC FILTER FABRIC (AT EACH SIDE, TOP AND BOTTOM) SHALL BE USED IN SANDY AREAS AS NOTED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.
 2. THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 15'-0" BELOW EXISTING GROUND ELEVATION, UNLESS FIELD CONDITIONS WARRANT OTHERWISE.
 3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION, SO THAT THE EXFILTRATION TRENCH WILL BE COMPLETED IN ACCORDANCE WITH THE DETAILS.
 4. INVERT ELEVATION TO BE AS SHOWN IN W.C. 2.2 (AVG. OCTOBER GROUND WATER LEVEL).

NOTE: IF THIS DETAIL IS TO BE USED FOR PRETREATMENT OF STORMWATER RUN-OFF, THE INVERT OF PIPE TO BE AS SHOWN IN W.C. 2.2. IF PRETREATMENT HAS BEEN PROVIDED THRU OTHER MEANS THE INVERT OF PIPE CAN BE LOWER THAN SHOWN IN W.C. 2.2.



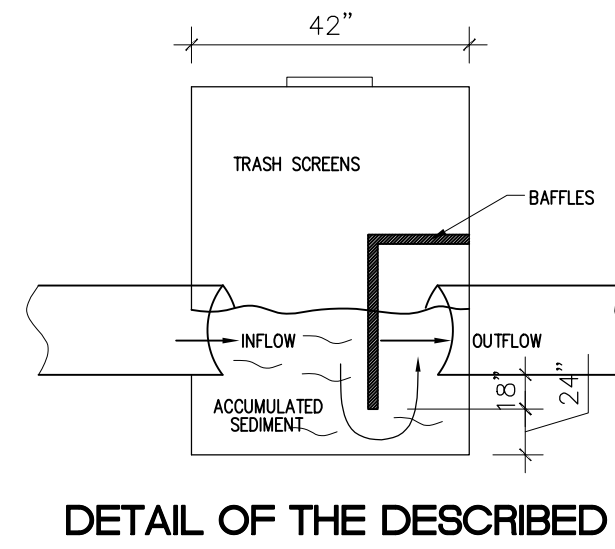
NOTE: WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

- NOTES:
1. PLASTIC FILTER FABRIC (ATEA, SIDE) SHALL BE USED IN SANDY AREAS AS NOTED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.
 2. THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 15'-0" BELOW EXISTING GROUND ELEVATION, UNLESS FIELD CONDITIONS WARRANT OTHERWISE.
 3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL ADDED TO RESTORE THE BALLAST ROCK TO BE PROPER ELEVATION, SO THAT THE EXFILTRATION TRENCH BE COMPLETED IN ACCORDANCE WITH THE DETAILS.

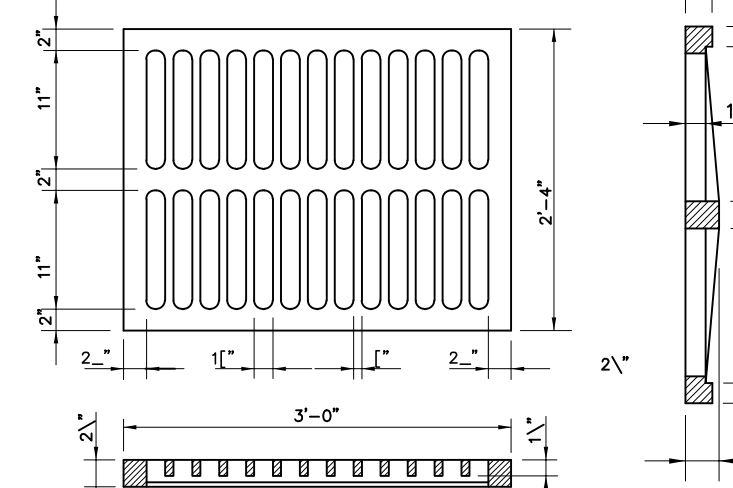
- PAVING, GRADING AND OVERLAYMENT ENGINEERING GENERAL NOTES:
- ALL MATERIALS AND WORKMANSHIP SHALL BE CONFORMED TO THE CURRENT SPECIFICATIONS ADOPTED BY THE DADE COUNTY PUBLIC WORKS ENGINEERING STANDARDS.
 - ALL PAVING AND OVERLAYMENTS SHALL BE 4" CONCRETE SLAB WITH 6" LIMEROCK BASE, MINIMUM LONGITUDINAL SLOPE SHALL BE 1/8" PER FOOT AND MIN. GROSS SLOPE 1/4" PER FOOT.
 - ALL UNDERGROUND UTILITIES MUST BE INSTALLED AND COMPLETED BEFORE PAVING OR OVERLAYMENT AND LIMEROCK BASE MATERIALS.
 - THE FOLLOWINGS INSPECTIONS SHALL BE REQUIRED WHEN APPLICABLE:
 - 1- CLEARING AND FILLING
 - 2- STORM DRAINS
 - 3- SUBGRADE
 - 4- ROCK BASE
 - 5- CONCRETE SLAB
 - 6- FINAL
 - EACH PARKING STALL SHALL BE MARKED WITH PAINTED OR THERMOPLASTIC LINES BETWEEN SPACES. WIDTH OF EACH LINE SHALL BE 4" AND MUST CONFORM WITH THE DADE COUNTY STANDARDS:
 - COLOR YELLOW FOR: STANDARD PARKING STALLS LINE
 - COLOR BLUE FOR: HANDICAPPED SIGN AND HANDICAP PARKING STALLS LINE AND STRIPPED LINES
 - COLOR WHITE FOR: DIRECTIONAL ARROWS, STRIPPED CROSS SIGN AND THE 6" DOTTED DIRECTIONAL TRAFFIC LINES.
 - EACH PARKING STALL SHALL PROVIDE WITH A PRECAST CONCRETE WHEEL STOP. THE BACK OF THE WHEEL STOP SHALL BE LOCATED AT 2' FROM THE END OF EACH STALL.
 - ALL PAVING IN PUBLIC AREAS SHALL COMPLY WITH THE FLORIDA D.O.T. ENGINEERING STANDARDS.
 - 1- STOP SIGN
 - 2- HANDICAP SIGN

← DIRECTION OF OVERLAND FLOW

- LOT TO BE GRADED SO AS TO PREVENT DIRECT OVERLAND DISCHARGE OF STORMWATER ONTO ADJACENT PROPERTIES.



DETAIL OF THE DESCRIBED



NOTE: 1/2" MAX. OPENINGS CB #4 GRATE TO BE INSTALLED NOT PERPENDICULAR TO TRAFFIC.

GRATE DETAIL FOR TYPE 'C' INLET

NOTES:
LINE AND GRADE SUB PERMIT IS REQUIRED WITH BUILDING APPLICATION AFTER THIS PERMIT HAS BEEN ISSUED PRIOR TO SETBACK INSPECTION.

DRAINAGE CALCULATIONS

PROJECT: **New Multifamily (8) Units Building**
524 N. RIVERSIDE DRIVE
Pompano Beach, Florida 331062

SITE INFORMATION:

TOTAL PROJECT AREA: 4,070 SF 0.0934 AC

RUN-OFF CALCULATIONS:

A = 0.0934 AC
A of Impervious = 0.1205 Acres
A of pervious = 0.0491 Acres
C = 0.78
I = Intensity for storm 5 years-10 mins = 7.2 in/hr
W = 10 FEET
V = 7.2 IN (0.0934 AC)(0.78) = 0.5245 AC-IN

$$L = \frac{V}{(K(H_2W + 2H_2D_2 - D_2^2 + 2H_2D_3) + 1.39 \times 10^{-4}(W)(D_2))}$$

WHERE:

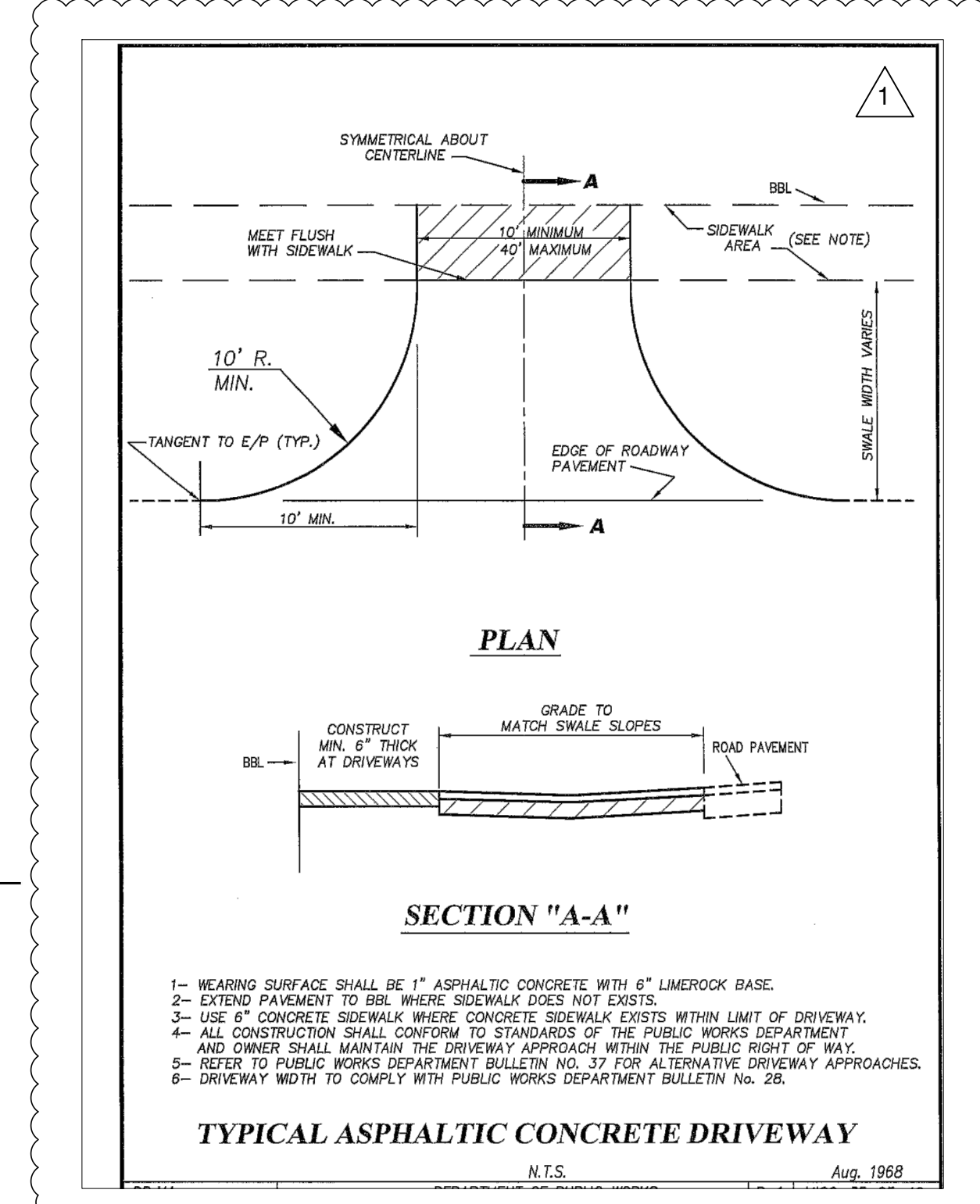
V = 0.5245 AC-IN
L = ? LF
W = 10 FEET
K = 0.35 x 10⁻³ CFS/FT² - FT OF HEAD
H₂ = 9.17 FT
D₂ = 8.42 FT
D₃ = 2.58 FT

$$L = \frac{0.9665}{(0.35 \times 10^{-3} (9.17)(10) + 2(9.17)(4.80) - (8.42)^2 + 2(9.17)(2.58)) + 1.39 \times 10^{-4} (10)(8.42)}$$

$$= \frac{0.5245}{0.089} = 5.89 \text{ LF}$$

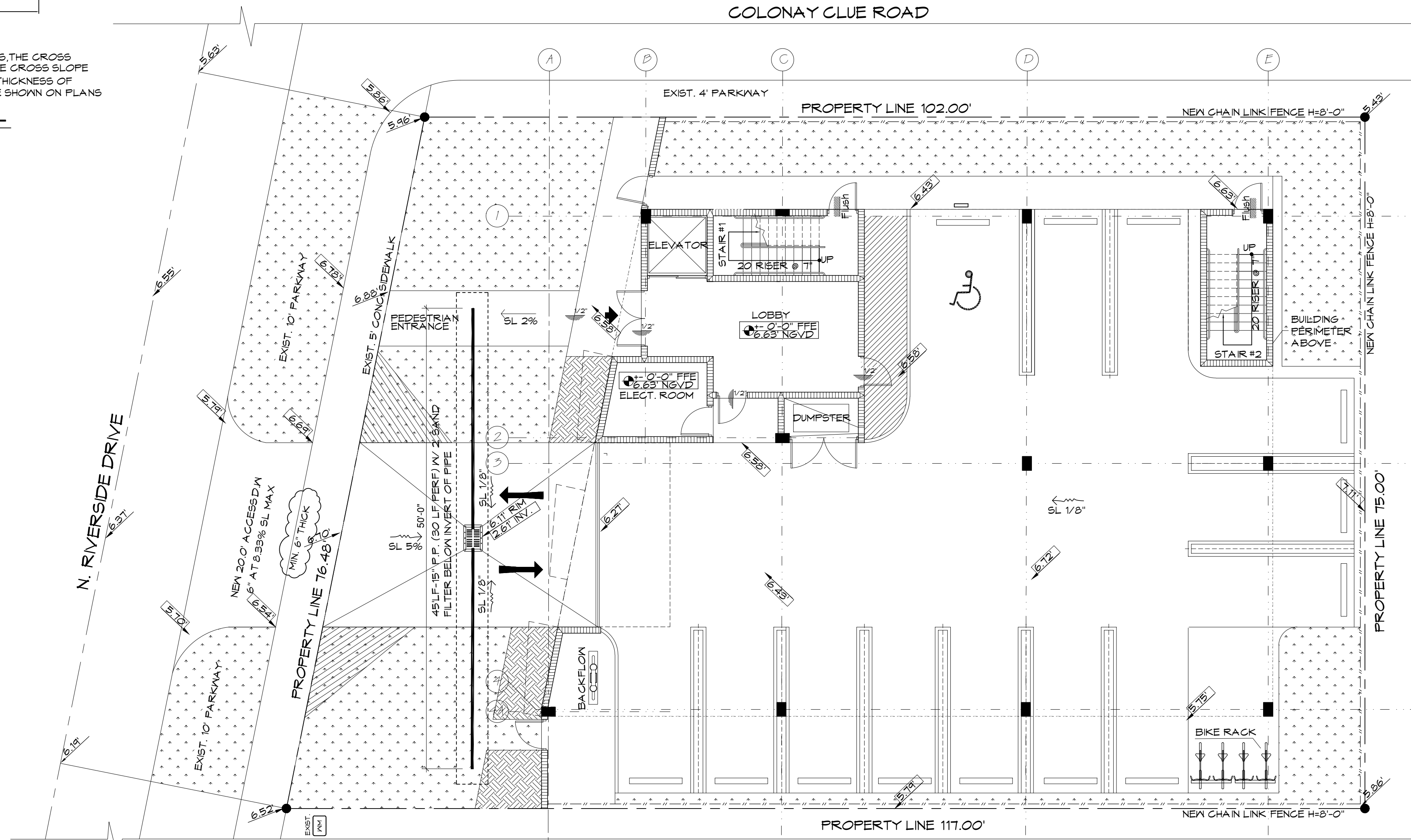
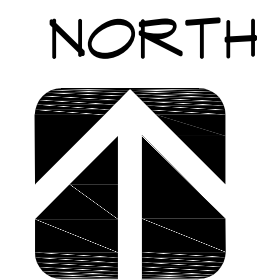
LENGTH OF TRENCH REQUIRED = 5.89 LF
LENGTH OF TRENCH REQUIRED x 2 SAFETY FACTOR = 11.78
LENGTH OF TRENCH PROVIDED = 30 LF

SEE PERCOLATION TEST ATTACHED



- 1- WEARING SURFACE SHALL BE 1" ASPHALTIC CONCRETE WITH 6" LIMEROCK BASE.
- 2- EXTEND PAVEMENT TO BBL WHERE SIDEWALK DOES NOT EXIST.
- 3- USE 6" CONCRETE SIDEWALK WHERE CONCRETE SIDEWALK EXISTS WITHIN LIMIT OF DRIVEWAY.
- 4- ALL CONSTRUCTION SHALL CONFORM TO STANDARDS OF THE PUBLIC WORKS DEPARTMENT.
- 5- OWNER SHALL MAINTAIN THE DRIVEWAY APPROACH WITHIN THE PUBLIC RIGHT OF WAY.
- 6- REFER TO PUBLIC WORKS DEPARTMENT BULLETIN NO. 37 FOR ALTERNATIVE DRIVEWAY APPROACHES.

TYPICAL ASPHALTIC CONCRETE DRIVEWAY



PAVING & DRAINING PLAN

SC. 1/8"=1'-0"

REVISIONS

THESE DRAWING & SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF RUBEN JUAN PUJOL. THE PROJECT FOR WHICH THEY WERE PREPARED IS EXECUTED OR NOT, THEY ARE NOT USED IN ANY MANNER ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH THE APPROPRIATE COMPENSATION TO RUBEN JUAN PUJOL & ASSOCIATES

NEW MULTIFAMILY BUILDING (8 UNITS)

Rub
en J
Pujol

Digitally signed by Ruben J Pujol
Date: 2020.12.15
16:08:05
-05'00'

RUBEN JUAN PUJOL
ARCHITECT, P.A.

A.I.A. AR# 0010458
A.A. 26002479
2237 S.W. 204 TERRACE
MIAMI, FLORIDA 33161
PHONE: (305) 441-1365

OWNER: BRANESP REALTY VENTURES LLC
ADDRESS: 524 N. RIVERSIDE DR.
POMPAÑO BEACH, FLORIDA 33062

DRC

PZ20-12000042
1/20/21