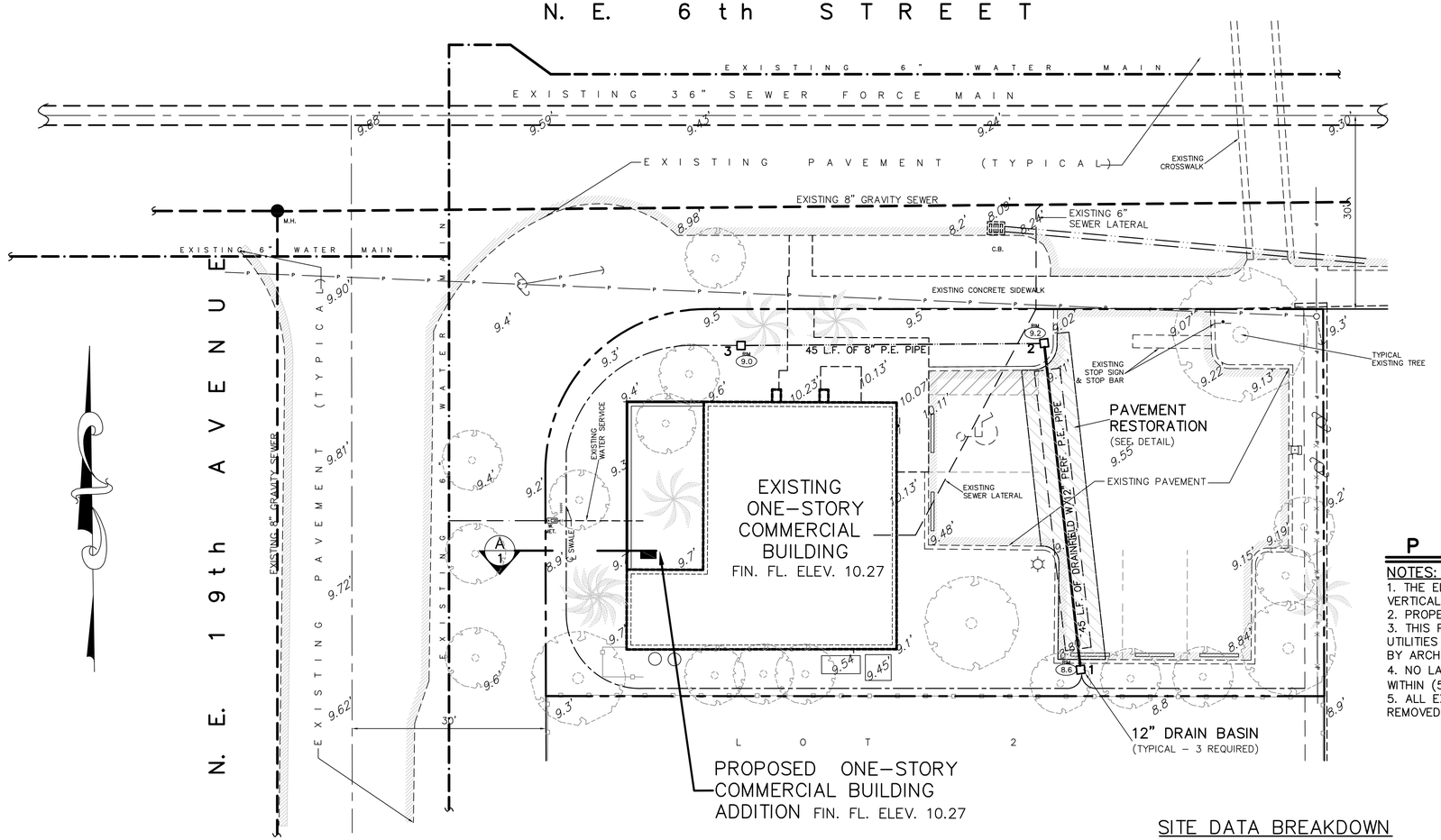
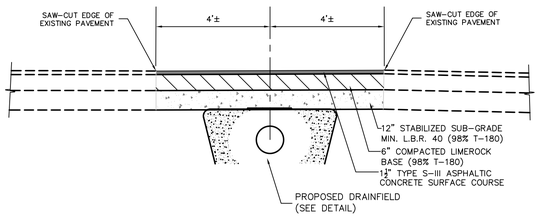
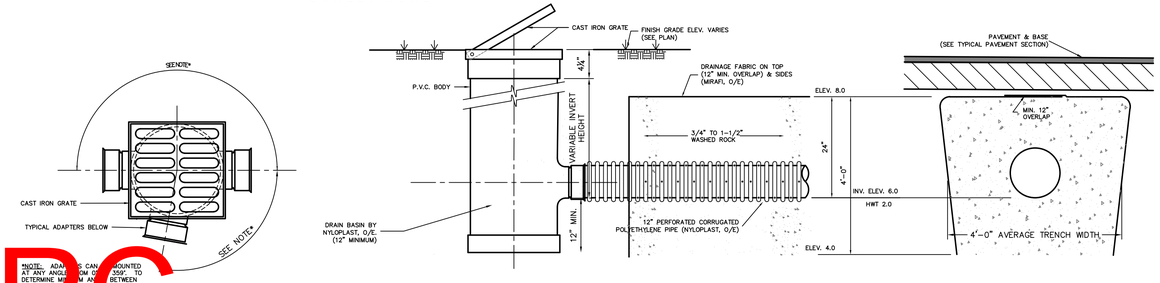




PAVEMENT RESTORATION

SCALE: NONE



TYPICAL DRAIN BASIN & DRAINFIELD DETAILS

NOTES:

GENERAL

1- ALL CONSTRUCTION, MATERIALS AND INSPECTIONS SHALL COMPLY WITH CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF POMPANO BEACH AND BROWARD COUNTY ENGINEERING DIVISION'S "MINIMUM STANDARDS" AND FLORIDA DEPARTMENT OF TRANSPORTATION, WHERE APPLICABLE.
2- LOCATION OF EXISTING UTILITIES ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL LOCATE AND EXPOSE PRIOR TO CONSTRUCTION ALL EXISTING UTILITIES TO BE CONNECTED TO AND BRING TO THE ATTENTION OF THE ENGINEER ANY DEVIATIONS FROM THAT AS SHOWN ON THE PLANS.
3- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL HOLD A PRECONSTRUCTION MEETING TO INCLUDE THE ENGINEER OF RECORD, CITY, AND ANY OTHER UTILITIES AND/OR AGENCIES INVOLVED.
4- ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
5- ALL UTILITIES AND DRAINAGE INSTALLATIONS UNDER PROPOSED PAVEMENT SHALL BE COMPLETED PRIOR TO COMMENCING PAVEMENT SUBGRADE CONSTRUCTION.
6- THE CONTRACTOR IS REQUIRED TO HAVE INSPECTIONS MADE ON EACH OF THE FOLLOWING ITEMS BY THE ENGINEER AND CITY:
A) ROCK BASE
B) ASPHALT
C) FINAL
CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO REQUESTED INSPECTIONS.
7- SHOP DRAWINGS OF ALL MATERIALS TO BE USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. APPROVAL FROM ALL APPROPRIATE AGENCIES SHALL BE OBTAINED PRIOR TO INSTALLATION.
8- CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS ON THE JOB SITE AT ALL TIMES.

PAVING

1- REMOVE MUCK, OVERBURDEN AND ROOT MATERIAL WITHIN 10 FEET OF ANY EDGE OF PAVEMENT OR BUILDING. BACKFILL TO REQUIRED SUBGRADE WITH CLEAN, GRANULAR MATERIAL IN MAXIMUM 12 INCH LIFTS, COMPACTED TO 98% MAXIMUM DENSITY AS DETERMINED BY AASHO-T-180.
2- STABILIZED SUBGRADE (MINIMUM LBR 40) SHALL BE COMPACTED TO 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO-T-180.
3- LIMEROCK BASE SHALL MEET FLORIDA D.O.T. STANDARD SPECIFICATIONS, SECTION 911, AND INSTALLED PER SECTION 200. DENSITY TESTS SHALL BE TAKEN AT A MINIMUM OF EVERY 5,000 S.F. FOR EACH LIFT WITH COPIES TO THE ENGINEER FOR APPROVAL. LIMEROCK BASE TO BE PRIMED IN ACCORDANCE WITH SECTION 300. BASE SHALL HAVE A COMPACTED THICKNESS AS SPECIFIED ON THE PLAN BUT IN NO CASE LESS THAN 6 INCHES.
4- ASPHALTIC CONCRETE SURFACE COURSE SHALL BE TYPE S-III CONFORMING TO SECTION 311, FLORIDA D.O.T. STANDARD SPECIFICATIONS. THE MINIMUM COMPACTED THICKNESS TO BE AS NOTED ON PLANS.

DRAINAGE

1- DRAINAGE PIPE SHALL BE ONE OF THE FOLLOWING:
CORRUGATED POLYETHYLENE PIPE (P.E.) FABRICATED TO ASTM 405 AND AASHTO-M294. PIPE SHALL BE ADS N-12, OR APPROVED EQUAL.
PIPE COUPLING BANDS SHALL BE SPLIT BANDS OF THE SAME ALLOY AS THE PIPE. POLYURETHANE OR OTHER MANUFACTURED SUPPLIED SEALANT SHALL BE USED WITH THE COUPLINGS. THE BANDS SHALL BE A MINIMUM OF 12 INCHES WIDE.
2- PRECAST DRAINAGE MANHOLES AND CATCH BASINS SHALL MEET THE REQUIREMENTS OF ASTM C-478 WITH A CONCRETE MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO MANUFACTURE.
3- ALL CONCRETE USED SHALL DEVELOP A MINIMUM OF 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
4- CONTRACTOR SHALL PROVIDE THE ENGINEER "AS-BUILTS" OF THE PROJECT GIVING ALL HORIZONTAL DIMENSIONS AND VERTICAL INFORMATION BY A REGISTERED SURVEYOR.

PLAN

SCALE: 1"=10'

NOTES:

1. THE ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM - NAVD 1988
2. PROPERTY LIES IN FLOOD ZONE X - AUG., 18, 2014
3. THIS PLAN IS FOR PAVING AND DRAINAGE ELEVATIONS & DETAILS, AND UTILITIES LOCATIONS ONLY. FOR EXACT LAY-OUT, SEE SITE PLAN PREPARED BY ARCHITECT.
4. NO LANDSCAPE MATERIAL (OTHER THAN SOD) SHALL BE PLACED WITHIN (5') FIVE FEET OF OF ANY CITY OWNED UTILITY LINES.
5. ALL EXISTING WATER AND SEWER SERVICES NOT UTILIZED TO BE REMOVED UP TO THE MAIN PER CITY SPECIFICATIONS.

SITE DATA BREAKDOWN

SITE	7100 S.F. - 100%
BUILDING (EXISTING)	1295 S.F. - 18%
BUILDING (NEW)	312 S.F. - 4%
IMPERVIOUS	2262 S.F. - 32%
PERVIOUS AREA	3231 S.F. - 46%

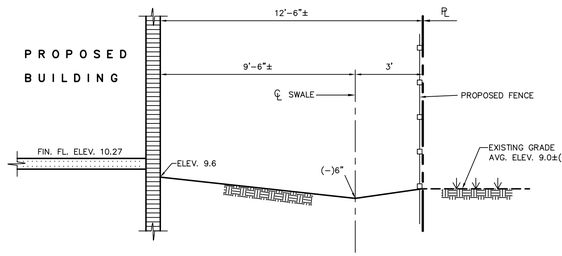
DRAINAGE CALCULATIONS: (Retain greater of)
1a. 1" of Site = 7100 SF x 1" = 592 C.F. or
1b. 2-1/2" x % Impervious =
= 3869 S.F. x 2-1/2" = 806 C.F.

2. Drainfield Provided:
H_2 = 5' W = 4'
D_u = 4' K = 1.0 x 10^{-4} (CFS/SF^2 - FT HEAD)
D_s = 0' L = 40'

a. Volume Stored in Trench
V(C.F.) = 0.5 x W x D_u x L= 0.5 x 4 x 4 x 45 = 360 C.F.

b. Volume Exfiltrated
V(C.F.) = 3600 K L $\{H_2 W + 2H_2 D_u - D_u^2 + 2H_2 D_s\}$
= 3600 (1.0x10)$^{-4}$(45)$\{5(4)+2(5)4-4^2+2(5)0\}$ = 713 C.F.

Total = 1073 C.F.



SECTION A/1 SCALE: NONE

Robert C Smith
Digitally signed by Robert C Smith
Date: 2023.07.05 12:30:57 -04'00'

This item has been digitally signed and sealed by Robert C Smith, P.E., on July 5, 2023. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

ROBERT CLAYTON SMITH LICENSE No. 31177 STATE OF FLORIDA PROFESSIONAL ENGINEER

LEGAL DESCRIPTION:
LOT 1, BLOCK 1, "VETERAN SUBDIVISION 1", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 26, PAGE 24, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

LEGEND:

- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING SEWER MAIN
- PROPOSED SEWER MAIN
- EXISTING DRAINAGE
- PROPOSED DRAINAGE
- PROPOSED PAVEMENT
- EXISTING PAVEMENT
- 0.00 EXISTING ELEVATIONS
- (0.0) PROPOSED ELEVATIONS
- DIRECTION OF RUN-OFF
- EXISTING TEE
- PROPOSED TEE
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- EXISTING VALVE
- PROPOSED VALVE
- EXISTING MANHOLE
- PROPOSED MANHOLE
- EXISTING FIRE HYDRANT
- (TP) THERMOPLASTIC

PAVING, GRADING AND DRAINAGE
WATER AND SEWER SERVICE CONNECTIONS
PLAN AND DETAILS

WOLFE CONSTRUCTION GROUP
OAKLAND PARK, FLORIDA

420 N.E. 19 AVENUE (P. B. CREDIT UNION)

JOHN B. SMITH ENGINEERS, INC.
1457 N.E. 4th AVENUE
FORT LAUDERDALE, FLORIDA 33304
PHONE: (954) 763-4177
CERTIFICATE OF AUTHORIZATION NO. 1668

DESIGN	DRAWN	DATE	FILE
R.C.S.	RCS	MAY, 2023	19-122

Approved By _____
Robert C. Smith, P.E.
Registered Engineer No. 31177
State of Florida

SHEET 1 OF 1

DRC
PZ23-12000027
11/01/2023
DRC
PZ23-12000027
08/02/2023