

PROPOSED UTILITY LEGEND

- FM FORCE MAIN (# INDICATES SIZE)
- SSW SANITARY SEWER (# INDICATES SIZE)
- WSW POLYETHYLENE WATER SERVICE (# INDICATES SIZE)
- WM WATER MAIN (# INDICATES SIZE)
- REC RECLAIM SERVICE (# INDICATES SIZE)
- GS GAS SERVICE (# INDICATES SIZE)
- UEC UNDERGROUND ELECTRICAL CONDUIT (4")
- UTEL UNDERGROUND TELEPHONE CONDUIT (4")
- 1 UTILITY CONFLICT (SEE DETAILS THIS SHEET)

UTILITY NOTES:

- CONTRACTOR SHALL TAKE ALL PRECAUTIONS DURING CONSTRUCTION TO AVOID CONTACT WITH BURIED GAS MAINS, OVERHEAD POWER LINES AND UNDERGROUND UTILITIES.
- CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES AND COORDINATE WITH THE ENGINEER OF RECORD BEFORE ANY NEW INSTALLATION OF WATER OR SEWER LINES ARE CONSTRUCTED.

REQUIRED FIRE FLOW:

SITE DESIGNED IN ACCORDANCE TO THE 6TH EDITION FLORIDA FIRE PREVENTION CODE
 FLORIDA BUILDING CODE CONSTRUCTION TYPE: VB (UNPROTECTED)
 FIRE AREA: 2,732 SF
 REQUIRED FIRE FLOW: 1,500 GPM @ 2 HOURS

UTILITY FLOW RATES:

POTABLE WATER DEMAND
 AVERAGE DAILY FLOW = 1.1[20 GPD PER SEAT x 66 SEATS]
 PEAK HOUR DEMAND = 1,452 GPD (GALLONS PER DAY)

WASTEWATER DEMAND
 AVERAGE DAILY FLOW = 1.0[20 GPD PER SEAT x 66 SEATS]
 PEAK HOUR DEMAND = 1,320 GPD (GALLONS PER DAY)

GENERAL WATER NOTES:

- THE CITY OF MACCLENNY WATER UTILITY DEPARTMENT SHALL BE NOTIFIED PRIOR TO BEGINNING ANY WATER SYSTEM CONSTRUCTION.
- ALL WATER DISTRIBUTION CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDEP REGULATIONS AND THE CITY OF MACCLENNY UTILITY DETAILS AND SPECIFICATIONS (LATEST EDITION).
- CONTRACTOR IS TO VERIFY THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES (UNDERGROUND AND OVERHEAD) PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY CONFLICTS SHALL BE REPORTED TO THE ENGINEER.
- CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ANY EXISTING PAVEMENT, SIDEWALK, CURBING, UTILITIES AND DRAINAGE SYSTEMS DAMAGED DURING CONSTRUCTION. ALL DAMAGED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
- LOCATION OF TELEPHONE, T.V. CABLE AND ELECTRICAL SERVICE CONNECTIONS TO BE DETERMINED BY APPROPRIATE UTILITIES PERSONNEL IN COOPERATION WITH CONTRACTOR.
- ALL WATER MAINS SHALL BE LAID ON A FIRM FOUNDATION WITH ALL UNSUITABLE MATERIAL (MUCK, ROCK, COQUINA, ETC.) REMOVED AND REPLACED WITH CLEAN GRANULAR MATERIAL.
- TRENCHES SHALL BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE CITY WITH A MINIMUM COMPACTION OF 95 PERCENT (AASHTO-T-180).
- WATER SERVICES FROM 3/4" TO 2" POLYETHYLENE (ENDOT ENDOPURE) WITH 30" MINIMUM COVER.
- WATER MAIN FROM 4" TO 12" SHALL BE PVC CLASS 150 (DR 18) WITH 30" MINIMUM COVER.
- ALL WATER AND FIRE SERVICES ARE REQUIRED TO HAVE A HARD BODY GATE VALVE OFF THE MAIN LINE.
- ALL VALVES SHALL BE BOLTED TO TEES.
- ALL POTABLE WATER PIPE SHALL HAVE "NSF POTABLE WATER" IMPRINTED ON THE PIPE.
- A TAPPING CONTRACTOR ACCEPTABLE TO THE CITY OF MACCLENNY MUST BE REQUIRED FOR TAPS.
- THE CONTRACTOR SHALL MAKE ALL ATTEMPTS TO LOCATE BURIED UTILITIES AND NOTIFY THE UTILITY COMPANIES 48 HR. PRIOR TO CONSTRUCTION.
- UTILITY TRENCH CONSTRUCTION SHALL CONFORM TO THE CITY OF MACCLENNY AND OSHA REQUIREMENTS.
- IN THE CASE WHERE SOLVENT CONTAMINATION IS FOUND IN THE TRENCH, WORK WILL BE STOPPED AND THE ENGINEER AUTHORITY NOTIFIED WITH THE APPROVAL OF THE CITY OF MACCLENNY UTILITY DEPARTMENT. DUCTILE IRON PIPE, FITTINGS AND APPROVED SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE WILL EXTEND AT LEAST 10 FEET BEYOND ANY DISCOVERED SOLVENT.

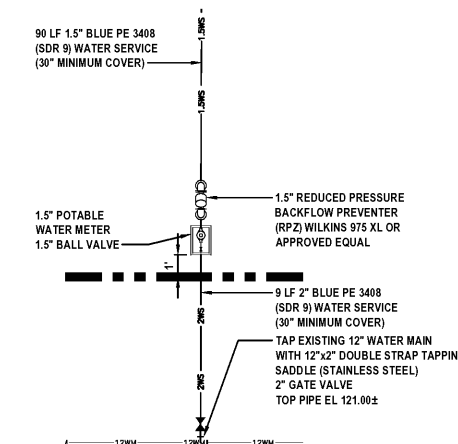
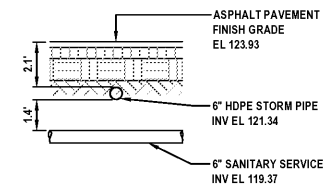
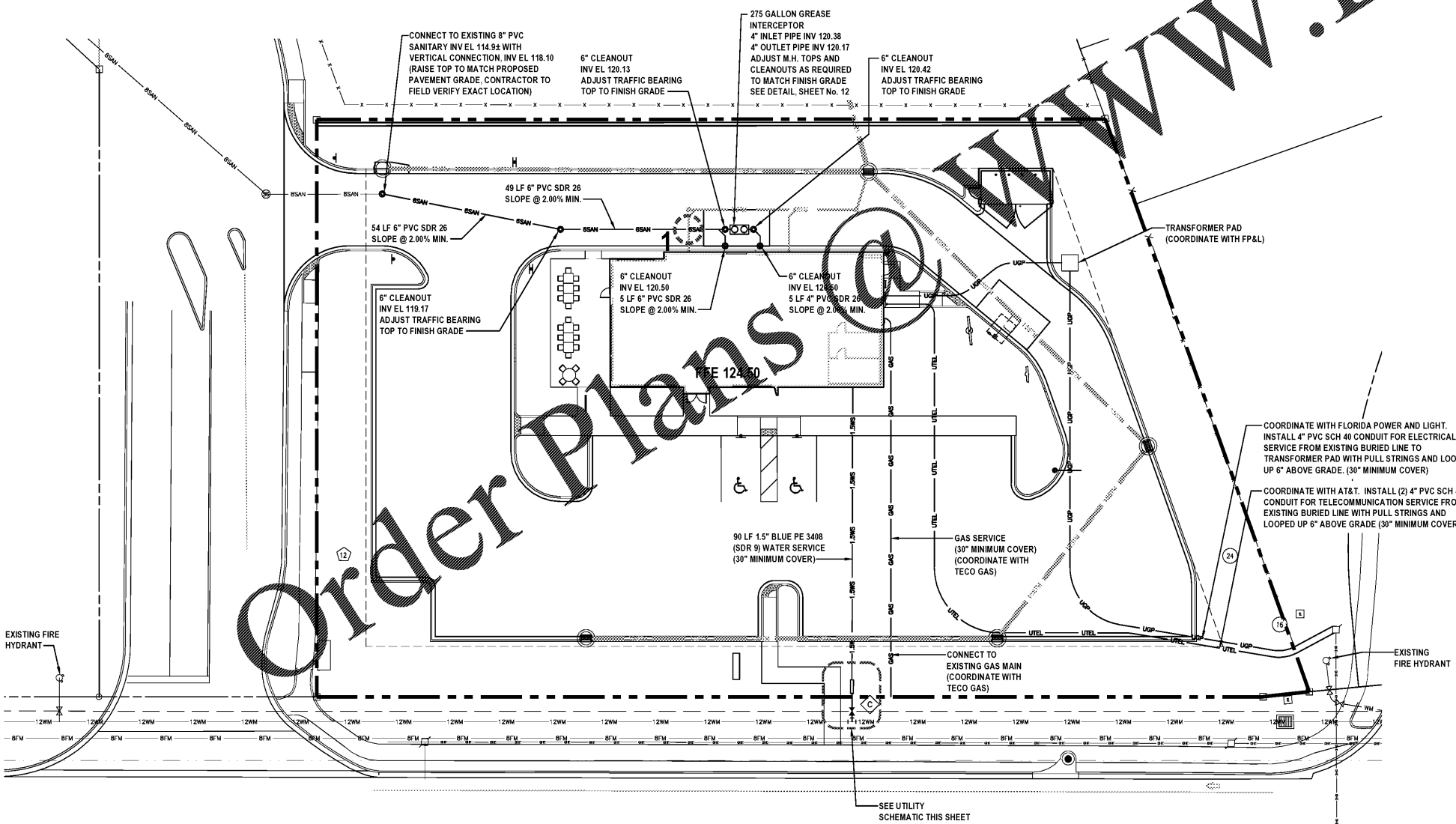
GENERAL SEWER NOTES:

- THE CITY OF MACCLENNY SHALL BE NOTIFIED PRIOR TO ANY SEWER CONSTRUCTION.
- ALL SEWER CONSTRUCTION MUST COMPLY WITH FDEP REGULATIONS AND THE CITY OF MACCLENNY UTILITY DETAILS AND SPECIFICATIONS (LATEST EDITION).
- ALL SANITARY SEWER LINES SHALL BE PVC SDR 26 DUE TO THE MINIMUM AMOUNT OF COVER. WATER LINES, RECLAIMED LINES AND STORM DRAINAGE CROSSINGS SHALL FOLLOW THE C-900 OR CONCRETE ENCASEMENT REQUIREMENT PER THESE STANDARDS AND AS FDEP REQUIREMENTS. STANDARDS AND AS PER FDEP REQUIREMENTS.
- SEWER LINE CONSTRUCTION SHALL BE ACCOMPLISHED BY THE USE OF A LASER INSTRUMENT UNLESS ANOTHER METHOD IS PREVIOUSLY APPROVED BY THE CITY OF MACCLENNY.
- THE CONTRACTOR SHALL AT ALL TIMES, DURING PIPE LAYING, DEWATER THE GROUND SUFFICIENTLY TO KEEP THE GROUND WATER ELEVATION A MINIMUM OF 6" BELOW THE PIPE BEING LAID WITHIN THE AREA OF THE TRENCH.
- ALL PIPES SHALL BE LAID ON A FIRM FOUNDATION. SAND OR SPONGY BEDDING FOR PIPES WILL NOT BE ACCEPTED. UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH A DRY COMPACTED GRANULAR MATERIAL SATISFACTORY TO THE CITY OF MACCLENNY.
- SANITARY SEWER SERVICE SHALL BE PVC SDR 26.
- EXCAVATION AND BRACING: THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING AND BRACING OF EXCAVATION WORK IN ORDER TO PROVIDE FOR THE SAFETY OF WORKMEN, AS WELL AS REPRESENTATIVES OF THE CITY OF MACCLENNY, THE DESIGN ENGINEER, AND THE DEVELOPER.
- TRENCHES SHALL BE BACKFILLED WITH ACCEPTABLE MATERIAL AND COMPACTED TO MINIMUM COMPACTION OF (95) PERCENT OF THE OPTIMUM DENSITY OF THAT MATERIAL BASED ON THE AASHTO T-180 MODIFIED PROCTOR TEST.
- ALL TESTING REQUIRED BY THE CITY SHALL BE PAID FOR BY THE CONTRACTOR.
- GRAVITY MAINS MUST HAVE A TELEVISED INSPECTION. A VIDEO INSPECTION FORM MUST BE FAXED TO THE CITY OF MACCLENNY WASTEWATER COLLECTION DEPARTMENT 48 HOURS PRIOR TO VIDEO INSPECTION. A CITY INSPECTOR MUST BE PRESENT.

REVISIONS

DATE	DESCRIPTION

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 LANDSCAPE ARCHITECTURE

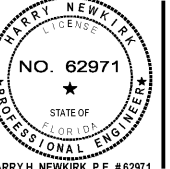


U.S. HIGHWAY 90 (STATE ROAD 10)
 (VARIABLE RW)/SPEED LIMIT 45 MPH

WARNING !!
 CONTRACTOR SHALL TAKE ALL PRECAUTIONS DURING CONSTRUCTION TO AVOID CONTACT WITH EXISTING UNDERGROUND UTILITIES, GAS MAINS AND OVERHEAD ELECTRIC IN THE RIGHT-OF-WAY.

UTILITY PLAN
 DAIRY QUEEN
 6567 US-90
 GLEN ST. MARY, FL 32040

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HARRY H. NEWKIRK, P.E. #62971
 PROJECT No: 2020-307
 DATE: DECEMBER 2020
 DESIGN BY: HHN
 DRAWN BY: DAB
 CHECKED BY: HHN
 SCALE: 1" = 20'

DRAWING NUMBER
12