

CONSTRUCTION NOTES

- ALL CONSTRUCTION, MATERIALS, RESTORATIONS AND METHODS OF INSTALLATION IN COUNTY ROADS SHALL BE SUBJECT TO THE REQUIREMENTS AND APPROVAL OF THE COUNTY ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE EXACT LOCATION OF THE FOLLOWING UTILITIES WITH EACH RESPECTIVE UTILITY COMPANY: LIGHTING POLES, ELECTRICAL TRANSFORMERS, ELECTRICAL SERVICE TO BUILDING(S), TELEPHONE AND CABLE TELEVISION BUSES AND DISTRIBUTION SERVICES TO BUILDING(S), GAS MAINS, GAS SERVICE TO BUILDING(S), AS NEEDED FOR THE PROJECT. IF THERE ARE CONFLICTS, NOTIFY THE ENGINEER, IN WRITING, PRIOR TO INSTALLATION.
- WHENEVER THE TRENCH BOTTOM DOES NOT AFFORD SUFFICIENT BEARING STRENGTH TO SUSTAIN THE WEIGHT OF THE PIPE AND SUPERIMPOSED LOADS, IT SHALL BE OVER EXCAVATED AND STABILIZED WITH A 12 INCH THICK MINIMUM LAYER OF GENIE GRADED AGGREGATE (GGA).
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND THE DEPTH OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND PROPOSED FACILITIES AND SHALL UTILIZE THE MANDATORY NOTIFICATION SYSTEM PER LAWS, RULES AND REGULATIONS AT 1-800-272-1000. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BEFORE EXCAVATION.
- CONTRACTOR EFFORTS SHALL BE MADE TO RETAIN EXISTING TREES, VEGETATION AND NATURAL CHARACTERISTICS OF THE TRACT.
- THE CONTRACTOR SHALL PAY ALL STREET OPENING FEES AND GIVE NOTICES NECESSARY FOR AND INCIDENTAL TO THE DUE AND LAWFUL EXECUTION OF THE PROJECT.
- NO MATERIALS SHALL BE PLACED NOR ANY DISTURBANCE PERMITTED BEYOND THE PROJECT PROPERTY LINE WITHOUT THE WRITTEN PERMISSION OF THE PROPERTY OWNER DIRECTLY INVOLVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING PAVING, PAINTING, SODDING, FERTILIZING AND SEEDING ALL AREAS DISTURBED BY HIS ACTIVITIES. ROAD PAVEMENT, REPLACEMENT, AND ALL RESTORATION IN TOWNSHIP AND/OR COUNTY ROADS SHALL MEET THE REQUIREMENTS OF THE TOWNSHIP AND/OR COUNTY ENGINEER.
- INSPECTION OF, OR FAILURE TO INSPECT ANY MATERIALS OR WORKMANSHIP BY STATE, COUNTY OR TOWNSHIP OFFICIALS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE PLANS, SPECIFICATIONS AND LAWS.
- PRIOR TO CONSTRUCTION, ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE APPROVED BY THE SOIL CONSERVATION DISTRICT IN COMPLIANCE WITH CHAPTER 176 PUBLIC LAW OF 1975. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED OR THE AREA IS STABILIZED IN ACCORDANCE WITH THE SOIL CONSERVATION DISTRICT'S RECOMMENDATIONS.
- ALL UTILITIES INCLUDING ELECTRIC, TELEPHONE AND CABLE TELEVISION SHALL BE UNDERGROUND.
- ALL WATER PIPING 4" AND LARGER SHALL BE CLASS 52 CEMENT LINED DUCTILE IRON PIPE WITH PUSH-ON JOINTS. MEGA LUG RETAINER GLANDS SHALL BE PROVIDED FOR D.I.P. FITTINGS. PIPING SMALLER THAN 3" SHALL BE TYPE "K" SOFT TEMPER COPPER TUBING WITH FLARED FITTINGS. WATER PIPING SHALL BE DISINFECTED BY CONTACT WITH A CHLORINE SOLUTION NOT LESS THAN 50 PPM FOR NOT LESS THAN 24 HOURS. ALL WATER PIPING AND APPURTENANCES SHALL BE APPROVED BY THE UTILITY COMPANY PRIOR TO INSTALLATION.
- ALL WATER PIPING TO BE PLACED AT A MINIMUM FINAL COVERAGE DEPTH OF 4'.
- ALL WATER MAINS AND SANITARY OR INDUSTRIAL SEWER LINES SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 10 FEET. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE WATER AND SEWER LINES SHALL BE IN SEPARATE TRENCHES (STEP TRENCHES ARE PROHIBITED) WITH THE TOP OF THE SEWER LINE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN OR WITH SUCH OTHER SEPARATION EXPRESSLY APPROVED BY THE DEPARTMENT. AT CROSSINGS OF SEWER LINES AND WATER MAINS, THE TOP OF THE SEWER LINES SHALL BE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN (SEWER SERVICE LATERALS ARE NOT SUBJECT TO THIS REQUIREMENT). IF SUCH VERTICAL SEPARATION IS NOT POSSIBLE, THE SEWER LINE SHALL BE OF WATER TIGHT CONSTRUCTION (THAT IS, DUCTILE IRON OR REINFORCED CONCRETE PIPE), WITH WATERTIGHT JOINTS THAT ARE A MINIMUM OF 10 FEET FROM THE WATER MAIN.
- THRUST BLOCKS ARE TO BE INSTALLED AT ALL WATER MAIN BENDS.
- NO SANITARY SEWER LATERALS SHALL BE CONNECTED DIRECTLY TO ANY MANHOLES.
- T.V. INSPECTION, IF REQUIRED BY THE UTILITY AUTHORITY, OF THE SANITARY SEWER SYSTEM SHALL BE COMPLETED TO THE SATISFACTION OF THE UTILITY COMPANY ENGINEER PRIOR TO FINAL APPROVAL.
- TRENCH BACKFILL SHALL BE COMPACTED TO 95% OF DRY DENSITY PER D-1557.
- AT THE END OF EACH WORKING DAY THE CONTRACTOR SHALL COMPLETELY BACKFILL TRENCH.
- THE ROADWAY SHALL BE SWEEPED CLEAN AT THE END OF EACH WORKING DAY.
- MANHOLE CASTINGS THAT MUST BE RAISED SHALL USE A MAXIMUM OF 3 PRE-CAST CONCRETE GRADE RINGS THAT COMPLY WITH C-478-90B.
- SANITARY SEWER MANHOLES SET IN OTHER THAN PAVED AREAS SHALL HAVE LOCKING LIDS. (BRIDGESTATE PATTERN #1460A OR APPROVED EQUAL.)

NOTE:

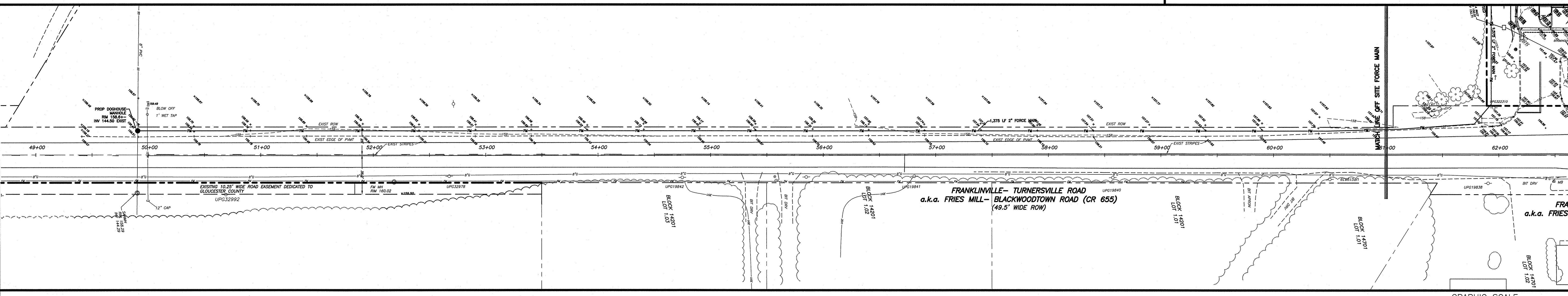
- SEE BUILDING PLANS FOR EXACT LOCATIONS OF WATER SERVICE AND SANITARY LATERAL LOCATIONS.
- ROOF LEADERS TO BE CONNECTED TO THE STORM DRAINAGE SYSTEM

LEGEND

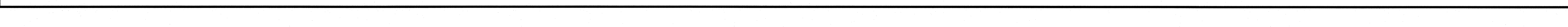
- PROPERTY OUTBOUND
- OUTBOUND/STREAM CENTERLINE
- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING LOT LINE
- PROPOSED LOT LINE
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING CURB
- PROPOSED CURB
- EXISTING EDGE OF PAVEMENT
- PROPOSED EDGE OF PAVEMENT
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING BLOCK NUMBER
- EXISTING LOT NUMBER
- PROPOSED BLOCK NUMBER
- LOT
- PROPOSED LOT NUMBER
- ELEV.1
- EXISTING CONTOUR 1' INTERVAL
- ELEV.5
- PROPOSED CONTOUR 5' INTERVAL
- ELEV.5
- PROPOSED CONTOUR 5' INTERVAL
- FF=XX.XX
- PROPOSED FINISHED ELEVATION
- XXX.XX
- PROPOSED SPOT ELEVATION
- XXX.XX
- PROPOSED TOP OF CURB ELEVATION
- XX.XX
- PROPOSED BOTTOM OF CURB ELEVATION
- EXISTING STORM SEWER AND INLET
- EXISTING STORM SEWER AND MANHOLE
- PROPOSED STORM SEWER & INLET
- PROPOSED STORM CLEAN OUT
- TP
- TEST PIT LOCATION
- FLOW
- HIGH POINT
- LOW POINT
- MATCHLINE
- EXISTING SANITARY SEWER AND MANHOLE
- SS
- PROPOSED 4" PVC SANITARY LATERAL
- PROPOSED SANITARY SEWER AND MANHOLE
- EXISTING WATER MAIN
- PROPOSED CLDIP WATER MAIN
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING WATER METER
- EXISTING WATER VALVE
- PROPOSED WATER VALVE

GRAPHIC SCALE
0' 30' 60' 90'
SCALE: 1" = 30'

ON SITE
SCALE: 1"=30'



OFF SITE FORCE MAIN
SCALE: 1"=40'



DATE: 5-12-2020

JAROD THOMAS

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GRADING AND UTILITY PLAN

MONROE EQUITIES LLC
PLATE 148, BLOCK 14801, LOT 12.02
MONROE TOWNSHIP, GLOUCESTER COUNTY, NEW JERSEY

PREPARED BY:
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DRAWN BY: JLS
DATE: 05/22/2020 SCALE: 1"=30' CES No. 1889-04 FILE No. 1889-04-001