

MISCELLANEOUS STORMWATER / DRAINAGE NOTES & REQUIREMENTS

- 1. NO WATER OTHER THAN STORMWATER SHALL BE DIRECTED TO THE STORMWATER SYSTEM. THIS INCLUDES NO COOLING WATER FROM MECHANICAL UNITS.
 2. NO FLOOR DRAYS OF WASH DOWN EFFLUENT SHALL BE PERMITTED TO DRAIN TO
- STORMWATER SYSTEM OR BASIN.
- THE STORMWATER BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH PINELANDS
- REQUIREMENTS, SPECIFICALLY SECTION N.J.A.C. 7:50-6.84(a)6.iv., OF THE PINELANDS MANAGEMENT PLAN. CONTACT ENGINEER FOR A COPY IF NEEDED.

 4. AS BUILT AND PERMEABILITY TESTING, AS PER SECTION N.J.A.C.
 7:50-6.84(a)6.v., OF THE PINELANDS MANAGEMENT PLAN WILL BE REQUIRED AFTER BASIN CONSTRUCTION.

STORMWATER SYSTEM MAINTENANCE SCHEDULE

PERIOD: ON GOING / AS NEEDED

PIPING SYSTEM: INSPECT / REMOVE LITTER FROM GRATES AND INLETS
AFTER MAJOR STORM EVENTS

BASIN: MOW SLOPES, REMOVE LITTER AND DEBRIS

PARKING LOT: SWEEP PAVEMENT AS NEEDED / TWO (2) TIMES ANNUALLY MINIMUM PERIOD: TWO (2) TIMES PER YEAR

PIPING SYSTEM: INSPECT / REMOVE LITTER FROM GRATES AND INLETS AFTER MAJOR STORM EVENTS BASIN: INSPECT FOR RODENT INFESTATION, INSPECT TO INSURE BASIN
IS DRAINING WITH NO STANDING WATER AFTER 72 HOURS FOLLOWING
A RAIN EVENT, REMOVE ACCUMULATED SILT IF REQUIRED

PERIOD: EVERY TWO (2) YEARS (SEMI-ANNUALLY)

BASIN: REMOVE SILT & DEBRIS, SCARIFY BOTTOM, BACKFILL WITH K4 SAND, REPLACE 6" K5 COARSE SAND BOTTOM IF REQUIRED

RESPONSIBLE PARTY: OWNER

SUBSEQUENT CONTRACTS FOR BASIN MAINTENANCE BETWEEN THE OWNER AND A SECOND PARTY SHALL BE PROVIDED TO THE TOWN.
THE STORMWATER MAINTENANCE SCHEDULE SHALL BE PROVIDED TO THE BOARD'S SOLICITOR FOR REVIEW PRIOR TO BEING RECORDED ON THE DEED OF RECORD AS PER NJAC 7: 8-5.8 (d)

GRADING NOTES

- 1. ALL SLOPES SHALL BE A MAXIMUM OF 3:1 (3'HORIZONTAL TO 1'VERTICAL)
- 2. ALL FILLED AREAS SHALL BE COMPACTED TO 95% MDWD.
- 3. ANY EXCESS CUT MATERIAL SHALL BE REMOVED AND DISPOSED OF OFFSITE.
- 4. DO NOT TOPSOIL BOTTOM OF PROPOSED BASIN AREA. EXISTING SAND BELOW BASIN FOR A DEPTH OF 5' TO BE INSPECTED BY DESIGN AND TOWN ENGINEER. ANY UNSUITABLE MATERIAL MUST BE EXCAVATED AND REPLACED WITH A PERMEABLE (K4) SAND.
- THE CONTRACTOR SHALL VERIFY GRADES PRIOR TO PAVING TO INSURE THAT ADEQUATE SLOPE EXISTS IN ALL AREAS SO THAT NO PONDING RESULTS ON ANY PAVED SURFACES.

HANDICAP RAMP / BARRIER FREE REQUIREMENTS

- 1. ALL CONSTRUCTION SHALL CONFORM TO BARRIER FREE REGULATIONS.
 2. ALL RAMPS SHALL BE 4' WIDE WITH 1: 12 TRANSITION FLARES
 3. ALL HC PARKING AREAS SHALL HAVE A MAXIMUM SLOPE OF 2%

- 4. OMITTED.
 5. ALL HC RAMPS SHALL COMPLY WITH ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC-RIGHT-OF-WAY DATED 7/26/2011
 6. ALL ACCESSIBLE ROUTES, INCLUDING DRIVEWAYS, SHALL HAVE A MAXIMUM CROSS SLOPE OF 2%.

LEGEND ---- 17 ----PROPOSED CONTOUR EXISTING ELEVATION PROPOSED ELEVATION TOP OF CURB TOP OF PAVING BOTTOM OF SWALE

1	8/27/2021	BERLIN TWP SUBMISSION
DEV	DATE	

GRADING PLAN

JACK J. GRAVLIN JR, P.E. MAILING ADDRESS

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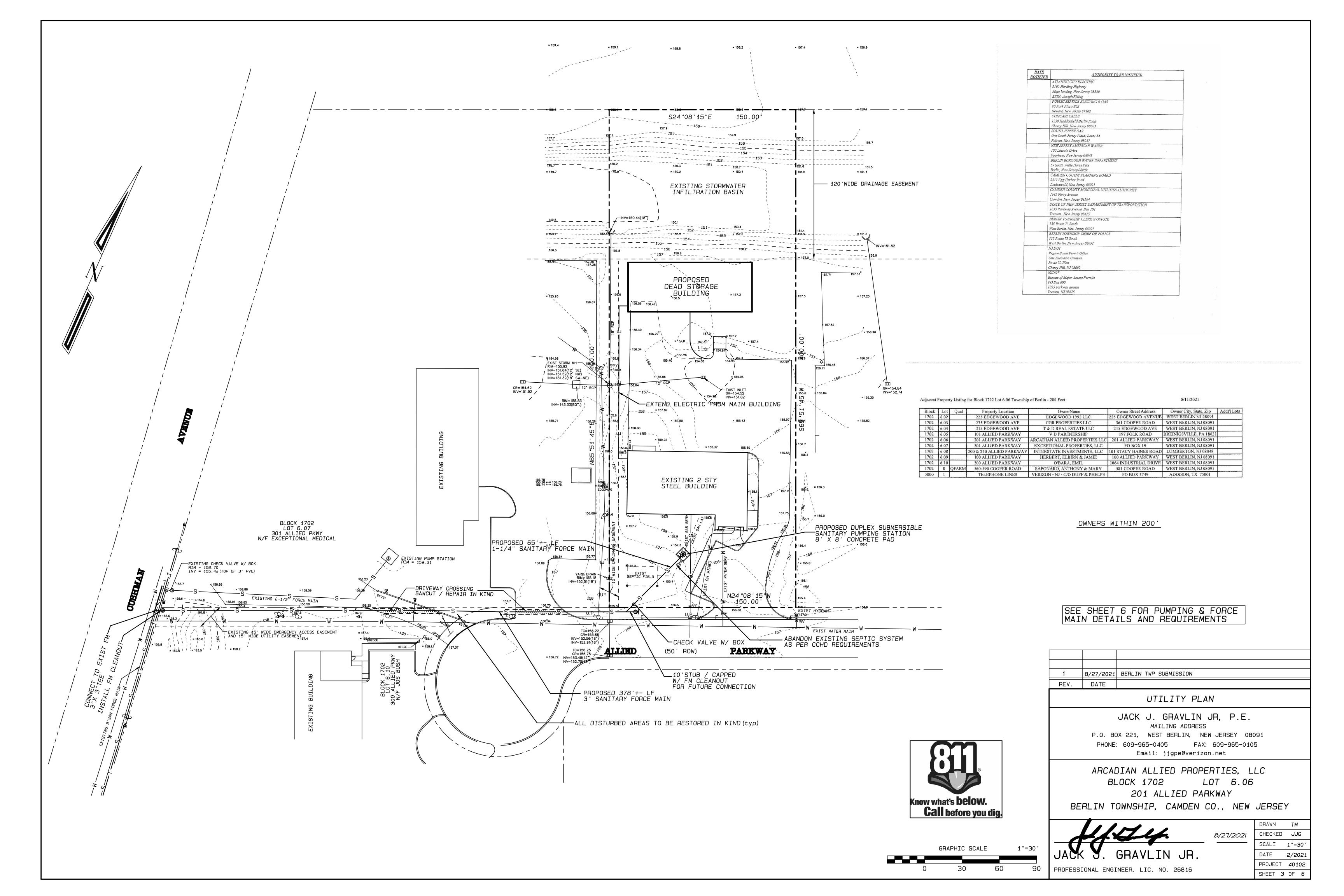
Email: jjgpe@verizon.net

ARCADIAN ALLIED PROPERTIES, LLC LOT 6.06 BLOCK 1702 201 ALLIED PARKWAY

BERLIN TOWNSHIP, CAMDEN CO., NEW JERSEY



DRAWN TM 8/27/2021 CHECKED **JJG** SCALE 1"=30' DATE 2/2021 PROJECT 40102 SHEET 2 OF 6



STORMWATER BASIN CONSTRUCTION AND MAINTENANCE NOTES:

- 1. THE BOTTOM OF THE BASIN IS TO BE EXCAVATED TO A DEPTH 1' ABOVE FINAL GRADE DURING THE CONSTRUCTION PHASE.
- 2. WHERE POSSIBLE, THE BASIN BOTTOM SHALL BE EXCAVATED WITH A BACKHOE FROM OUTSIDE THE BASIN FLOOR PERIMETER TO LIMIT SOIL COMPACTION OF THE BASIN FLOOR.
- 3. THE DEVELOPER/OWNER SHALL TILL THE BASIN FLOOR SUBGRADE UNDER THE SUPERVISION OF THE TOWNSHIP ENGINEER, 6" MINIMUM DEPTH.
- 4. ALL SILT IS TO BE REMOVED FROM THE BASIN BEFORE FINAL BASIN GRADING TO DESIGN DEPTH, INSTALLATION OF K5 SAND BOTTOM, AND PERMANENT STABILIZATION
- 5. AFTER UPSTREAM STABILIZATION AND REMOVAL OF ALL SILTATION FROM THE BASIN BOTTOM, 12" SHALL EXCAVATED, SUBGRADE TILLED TO 6"DEPTH, AND THE BOTTOM BACKFILLED WITH COARSE SAND. THIS SHALL BE REPEATED EVERY 5 YEARS. BASIN BOTTOM TO BE SCARIFIED AND SILT REMOVED EVERY TWO (2) YEARS.
- 6. AFTER FINAL BASIN GRADING AND PERMANENT STABILIZATION, IN ORDER TO REDUCE COMPACTING THE SOILS, NO HEAVY EQUIPMENT IS PERMITTED TO OPERATE WITHIN THE BASIN. THIS INCLUDES MOWING AND THE ANNUAL REMOVAL OF ACCUMULATED SILT. ANY REQUIRED SOIL EXCHANGE SHALL BE PERFORMED WITH LIGHT WEIGHT EQUIPMENT OR FROM THE SIDES TO AVOID COMPACTION BELOW THE BASIN BOTTOM.
- 7. A POST-CONSTRUCTION PERMEABILITY TEST MAY BE REQUIRED IN THE BASIN BOTTOM TO VERIFY PREVIOUSLY DETERMINED PERMEABILITY RATES.

SEQUENCE OF DEVELOPMENT

- SEQUENCE OF DEVELOPMENT

 . CONTACT CAMDEN COUNTY SOIL CONSERVATION DISTRICT A MINIMUM OF 72 HOURS
 PRIOR TO ANY SOIL DISTURBANCE TO ARRANGE A PRECONSTRUCTION MEETING.

 ! THE ORIGINAL CAMDEN COUNTY SOIL CONSERVATION DISTRICT CERTIFICATION AND PLANS MUST BE
 AVAILABLE AT THE SITE AT ALL TIMES.

 ! INSTALL THE STABILIZED CONSTRUCTION ENTRANCE.

 ! DISTURB ONLY THE MINIMUM AREA NEEDED TO INSTALL SILT FENCE AND TREE PROTECTION FENCE
 AT THE DRIPLINE OF ALL TREES TO REMAIN. NO CONSTRUCTION ACCESS OR STORAGE SHALL BE
 PERMITTED WITHIN THESE PROTECTION AREAS.

 I. REMOVE ONLY THOSE TREES NECESSARY TO EXCAVATE THE STORMWATER BASIN.

 I. CONSTRUCT BASIN OUTFLOW PIPE AND OUTLET STRUCTURE.

 I. EXCAVATE BASIN TO ONE FOOT ABOVE FINAL GRADE FOR USE AS A SEDIMENTATION BASIN
 DURING CONSTRUCTION. EXCAVATION SHALL BE FROM OUTSIDE THE BASIN PERIMETER TO
 MINIMIZE SOIL COMPACTION IN THE BASIN BOTTOM. NO CONSTRUCTION EQUIPMENT SHALL
 BE PERMITTED IN THE BASIN AT ANY TIME.

 I. SEED BASIN SLOPES AND BERM.

 I. CLEAR AND GRUB ALL TREES IN THE IMMEDIATE AREA OF CONSTRUCTION. ALL VEGETATION
 TO REMAIN SHALL BE PROPERLY PROTECTED. STRIP TOPSOIL AND STOCKPILE WHERE SHOWN.
 TEMPORARILY STABILIZE STOCKPILE WITH SEED.

 O. GENERAL AND PRELIMINARY GRADE THOSE AREAS TO BE DEVELOPED.

 1. CONSTRUCT PROPOSED STRUCTURES, DRIVEWAYS, CURBS, UTILITIES AND STORMWATER
 APPURTENANCES.

- APPURTENANCES INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES FOR THE PROPOSED UTILITIES AND STORMWATER SYSTEM.
- STORMWATER SYSTEM.

 STORMWATER SYSTEM.

 INSTALL SUBBASE COURSE IMMEDIATELY FOLLOWING PRELIMINARY GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILZE PAVEMENT AREAS.

 INSTALL UG ROOF DRAIN PIPING SYSTEM. INSURE THAT NO SEDIMENT ENTERS COMPLETED SYSTEM.

 INSTALL BASE MATERIALS FOR PAVEMENT AREA.

 INSTALL BASE SITE WITH PERMANENT VEGETATIVE COVER AND LANDSCAPING.

 INSTALL SITE IS STABILIZED AND GRASS IS GROWING, EXCAVATE THE BASIN FROM OUTSIDE ITS PERIMETER TO FINAL BOTTOM SUBGRADE ELEVATION (BELOW BASIN SAND BOTTOM).

 INSTALL SAND BOTTOM.

 INSTALL SAND BOTTOM.

 INSTALL SAND BOTTOM. RESEED BASIN SIDES.

 INSTALL SAND BOTTOM. RESEED BASIN SIDES.

- NOTE: ALL CONDUIT OUTLET PROTECTION SHALL BE STABILIZED AS PER THE CERTIFIED PLAN PRIOR TO BECOMING OPERATIONAL.

Soil De-compaction and Testing Requirements

Soil Compaction Testing Requirements

1. Subgrade soils **prior to the application of topsoil** (see permanent seeding and stabilization notes for topsoil requirements) shall be free of excessive compaction to a depth of 6.0 inches to enhance the establishment of permanent

2. Areas of the site which are subject to compaction testing and/or mitigation are **graphically denoted** on the certified

B. Compaction testing locations are denoted on the plan. A copy of the plan or portion of the plan shall be used to mark tions of tests, and attached to the compaction remediation form, available from the local soil conservation district.

In the event that testing indicates compaction in excess of the maximum thresholds indicated for the simplified

mitigation over the entire mitigation area denoted on the plan (excluding exempt areas), or (2) perform additional, more detailed testing to establish the limits of excessive compaction whereupon only the excessively compacted areas

would require compaction mitigation. Additional detailed testing shall be performed by a trained, licensed professional. **Compaction Testing Methods**

A. Probing Wire Test (see detail)

C. Tube Bulk Density Test (licensed professional engineer required Nuclear Density Test (licensed professional engineer required)

Note: Additional testing methods which conform to ASTM standards and specifications, and which produce a dry weight, soil bulk density measurement may be allowed subject to District approval

if/when subsoil compaction testing is not required if/when subsoil compaction remediation (scarification/tillage (6" minimum denth) or similar) is proposed as part of the sequence of construction.

Procedures for Soil Compaction Mitigation

Procedures shall be used to mitigate excessive soil compaction prior to placement of topsoil and establishment of permanent vegetative cover.

Restoration of compacted soils shall be through deep scarification/tillage (6" minimum depth) where there is no danger to underground utilities (cables, irrigation systems, etc.). In the alternative, another method as specified by a

New Jersey Licensed Professional Engineer maybe substituted subject to District Approval

SOIL DE-COMPACTION REQUIREMENTS

SUBSOIL COMPACTION REMEDIATION

THE BASIN BOTTOM SUBSOIL SHALL BE DE-COMPACTED THROUGH DEEP SCARIFICATION / TILLAGE, 6" MINIMUM DEPTH, PRIOR TO

PLACEMENT OF BASIN BOTTOM SAND. SEE NOTES 19 & 20 UNDER SEQUENCE OF DEVELOPMENT

STORMWATER SYSTEM MAINTENANCE SCHEDULE

RESPONSIBLE PARTY: OWNER

- THE OWNER SHALL MAINTAIN A DETAILED LOG OF MAINTENANCE MEASURES INCLUDING A RECORD OF INSPECTIONS AND MAINTENANCE RELATED WORK ORDERS.
 THE OWNER SHALL EVALUATE THE EFFECTIVENESS OF THE MAINTENANCE PLAN AT LEAST ONCE PER YEAR AND ADJUST THE PLAN AND THE DEED AS NEEDED.
- THE OWNER SHALL RETAIN AND MAKE AVAILABLE, UPON REQUEST BY ANY PUBLIC ENTITY WITH RELEVANT AUTHORITY OVER THE SITE, THE MAINTENANCE PLAN AND
- DOCUMENTATION REQUIRED BY 1 AND 2 ABOVE. THE STORMWATER MAINTENANCE SCHEDULE SHALL BE SUBMITTED TO THE BOARDS SOLICITOR FOR REVIEW PRIOR TO SAME BEING RECORDED ON THE DEED OF RECORD.

PERIOD: ON GOING / AS NEEDED

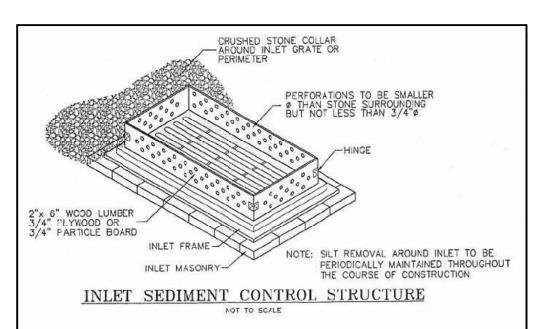
BASIN: MOW, REMOVE LITTER AND DEBRIS

PERIOD: ANNUALLY

BASIN: INSPECT FOR RODENT INFESTATION, INSPECT TO INSURE BASIN IS DRAINING WITH NO STANDING WATER AFTER 24 HOURS FOLLOWING A RAIN EVENT, REMOVE ACCUMULATED SILT

PERIOD: EVERY TWO (2) YEARS

BASIN: SCARIFY BOTTOM, REMOVE SILT, REPLACE COARSE SAND AS NEEDED



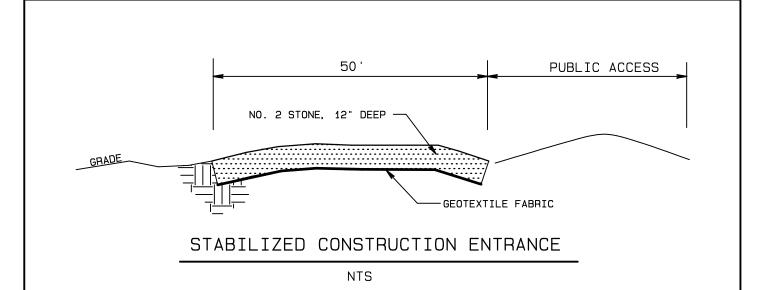
DUST CONTROL

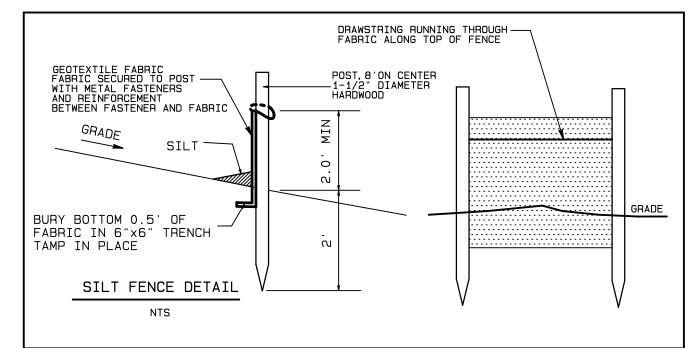
- THE CONTRACTOR SHALL CONTROL DUST USING ONE OF THE FOLLOWING PROCEDURES:
- MULCHES: UNROTTED SMALL GRAIN STRAW OR SALT HAY APPLIED AT 2.0 TO 2.5 TONS PER ACRE AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDER, NETTING TIE DOWN, AS PER SECTION 5-1 OF SOIL CONSERVATION STANDARDS.
- VEGETATIVE COVER: TEMPORARY / PERMANENT VEGETATIVE COVER AS PER SECTIONS 7-1 AND 4-1 OF SOIL CONSERVATION STANDARDS AND APPLIED AT RATE SPECIFIED ON THIS PLAN.
- 3. SPRINKLING: SITE IS SPRINKLED UNTILL SURFACE IS WET.
- 4. CALCIUM CHLORIDE: APPLIED THROUGH SPREADERS IN A LOOSE, DRY GRANULAR, OR FLAKE FORM AT A RATE NECESSARY TO KEEP SURFACE MOIST.
- ALL METHODS OF DUST CONTROL SHALL CONFORM TO SECTION 16-1 OF THE SOIL CONSERVATION STANDARDS.

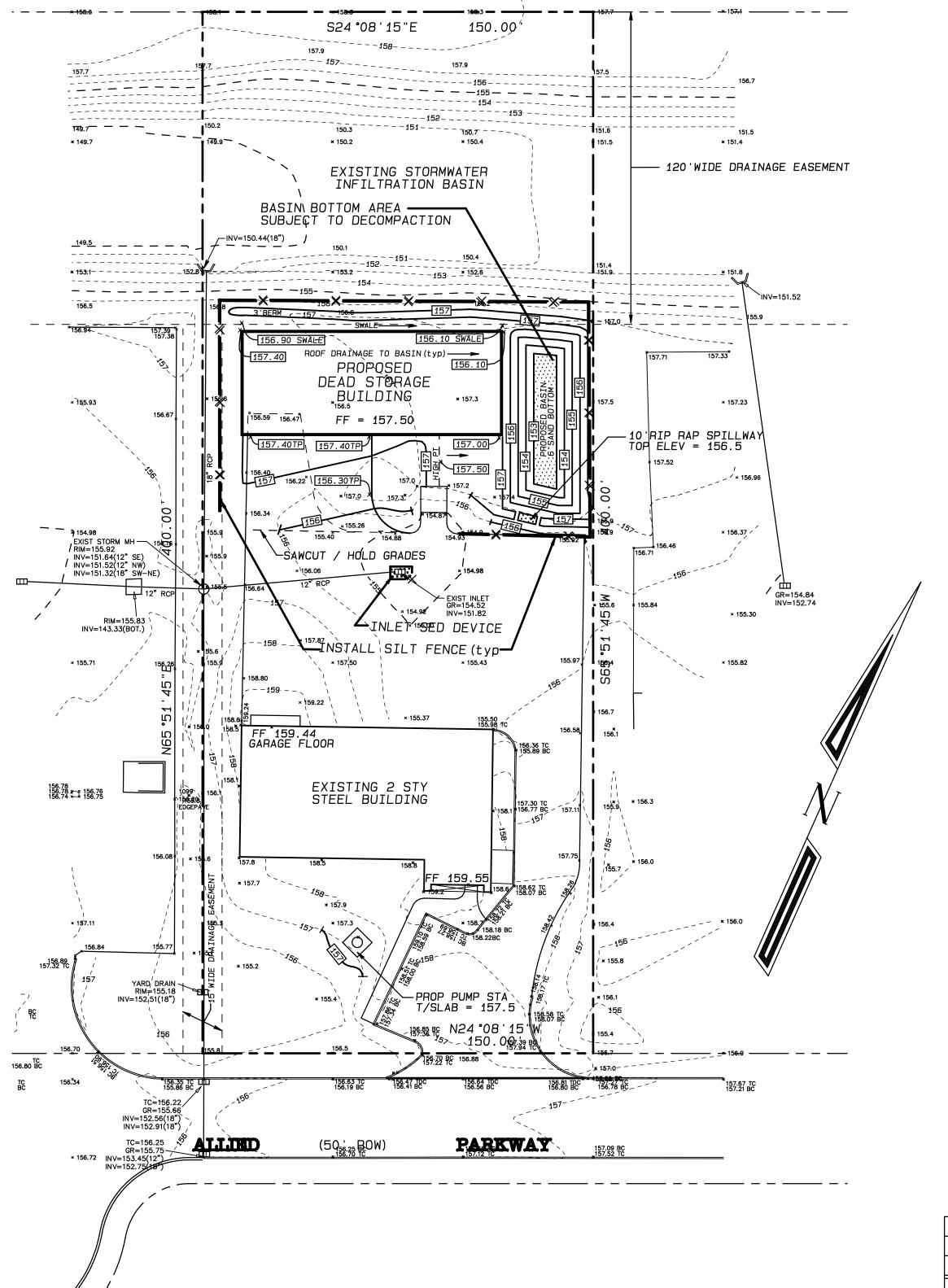
MULCHING SPECIFICATION

SALT HAY OR SMALL GRAIN STRAW APPLIED AT THE RATE OF TWO (2) TONS PER ACRE AS PER NEW JERSEY STATE STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (i.e.: PEG AND TWINE, MULCH NETTING, LIQUID MULCH BINDER) AS PER NEW JERSEY STATE STANDARDS. ALL SEEDED AREAS, EVEN IF HYDROSEEDED, SHALL BE MULCHED.

STABILIZED CONSTRUCTION ENTRANCE STONE: ASTM C-33, NO. 2 (2-1/2 TO 1-1/2 INCH), CLEAN, ANGULAR THICKNESS: 12 INCHES ENTRANCE TO BE MAINTAINED TO PREVENT TRACKING ONTO ROADWAY BY INSTALLING ASPHALT APRON (6" THICK I-2) AND BY TOPDRESSING STONE WITH ADDITIONAL STONE, AS REQUIRED.







SOIL EROSION AND SEDIMENT CONTROL NOTES

- 1. ALL APPLICABLE SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPEARTION AND / OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE AND ANCHORED, ACCORDING TO STATE STANDARDS.
- 3. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH WILL BE USED FOR PROTECTION UNTIL SEEDING IS ESTABLISHED. 4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY AS ADOPTED JANUARY, 2014
- 5. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY GRADING.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING ALL CRITICAL AREAS SUBJECT TO EROSION (i.e.: STEEP SLOPES, ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- 7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (i.e.: SLOPES GREATER THAN 3: 1)
- 8. TRAFFIC CONTROL STANDARDS REQUIRE THE INSTALLATION OF A 100' X 25' X 1' PAD OF 1-1/2 TO 2 INCH STONE, AT ALL CONSTRUCTION DRIVEWAYS IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.
- 9. IN ACCORDANCE WITH THE STANDARDS FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, ANY SOIL HAVING A pH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A pH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION.
- 10. THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.
- 11. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER.
- 12. IN THAT N.J.S.A. 4: 24-39 ET SEG. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY SHALL BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES, ALL SITE WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.

- 13. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- 14. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE COUNTY SOIL CONSERVATION DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT NEW JERSEY SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
- 15. THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES IN OWNERSHIP.
- 16. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.
- 17. PAVED ROADWAYS SHALL BE KEPT CLEAN AT ALL TIMES. 18. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
- 19. SOILS ON SITE: EVfmB, EVESBORO FINE SAND, AS PER NRCS SOIL SURVEY.
- 20. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTILL CONSTRUCTION IS COMPLETED AND / OR THE AREA IS STABILIZED.
- 21. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- 22. SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY, OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHALL BE PROTECTED BY A HAY BALE BARRIER OR SEDIMENT FENCE.
- 23. A CRUSHED STONE TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE RIP RAP PAD MUST BE 100 FEET IN LENGTH AND THE STONE MUST BE 1-1/2" TO 4" IN SIZE, PLACED 12"THICK AND THE FULL WIDTH OF THE ENTRANCE.IT SHALL BE UNDERLAIN WITH A SUITABLE SYNTHETIC FILTER FABRIC AND MAINTAINED AS NEEDED.
- 24. ALL CATCH BASIN INLETS WILL BE PROTECTED DURING CONSTRUCTION.
- 25. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTRATION DEVICE. THE SEDIMENT FILTER MUST BE PLACED SO AS NOT TO CAUSE EROSION OF THE DOWNSTREAM AREA. FIELD PLACEMENT AND USE OF THE STRUCTURE MUST BE APPROVED BY THE DISTRICT EROSION CONTROL INSPECTOR PRIOR TO COMMENCEMENT OF DEWATERING.
- 26. IT SHALL BE THE RESPONSIBILTY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER, AND SEED APPLICATION RATES AT THE REQUEST OF THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT.
- 27. NJSA 4: 24-39, ET SEQ. REQUIRES THAT UPON PERMANENT SITE STABILIZATION AND COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL APPLY TO THE SOIL CONSERVATION DISTRICT FOR A FINAL COMPLIANCE INSPECTION TO CHECK THAT ALL THE PROVISIONS OF THE CERTIFIED EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES.
- 28. OFF SITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE DISTRICT EROSION CONTROL INSPECTOR.
- 29. A COPY OF THE CERTIFIED EROSION CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION. 30. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ALL SUBSEQUENT OWNERS.
- 31. IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING TOPSOIL THE STOCKPILE SHALL BE SEEDED WITH TEMPORARY VEGETATION. STABILIZE TOPSOIL STOCKPILES WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE ESTABLISHMENT OF TEMPORARY SEED.

PERMANENT SEEDING REQUIREMENTS

ALL DISTURBED AREAS SHALL BE TOPSOILED, 6" MINIMUM DEPTH, FERTILIZED WITH A 10-20-10 FERTILIZER AT A RATE OF 11 LBS. PER 1000 SQ.FT.. AND LIMED AT A MINIMUM RATE OF 90 LBS. PER 1000 SQ.FT. OR REQUIRED PROPORTION TO ESTABLISH A pH OF 6.8 - 7.0 .

RATE:

SEED MIXTURE SHALL BE:

LAWN AREAS:

TALL FESCUE KENTUCKY BLUEGRASS (BLEND)

SEED MIXTURE SHALL BE:

BASIN SLOPE AREAS: STRONG CREEPING RED FESCUE KENTUCKY BLUEGRASS 1.4 LBS PER 1000 SQ.F. 0.92 LBS PER 1000 SQ.F. PERENNIAL RYEGRASS (BLEND) 0.25 LBS PER 1000 SQ.FT

IF AREAS ARE HYDROSEEDED, INCREASE ABOVE SEEDING RATES BY 25%.

TEMPORARY SEEDING REQUIREMENTS

SEED MIXTURE SHALL BE:

1.0 LBS. PER 1000 SQ.FT. PERENNIAL RYEGRASS ALL TEMPORARY SEEDING, FERTILIZATION, LIMING, AND MULCHING SHALL CONFORM TO SECTION 7.1 OF THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTOL IN NEW JERSEY.

1	8/27/2021	BERLIN TWP SUBMISSION
REV.	DATE	

EROSION CONTROL PLAN

JACK J. GRAVLIN JR, P.E. MAILING ADDRESS

P.O. BOX 221, WEST BERLIN, NEW JERSEY 08091 PHONE: 609-965-0405 FAX: 609-965-0105

Email: jjgpe@verizon.net

ARCADIAN ALLIED PROPERTIES. LLC BLOCK 1702 LOT 6.06

201 ALLIED PARKWAY BERLIN TOWNSHIP, CAMDEN CO., NEW JERSEY

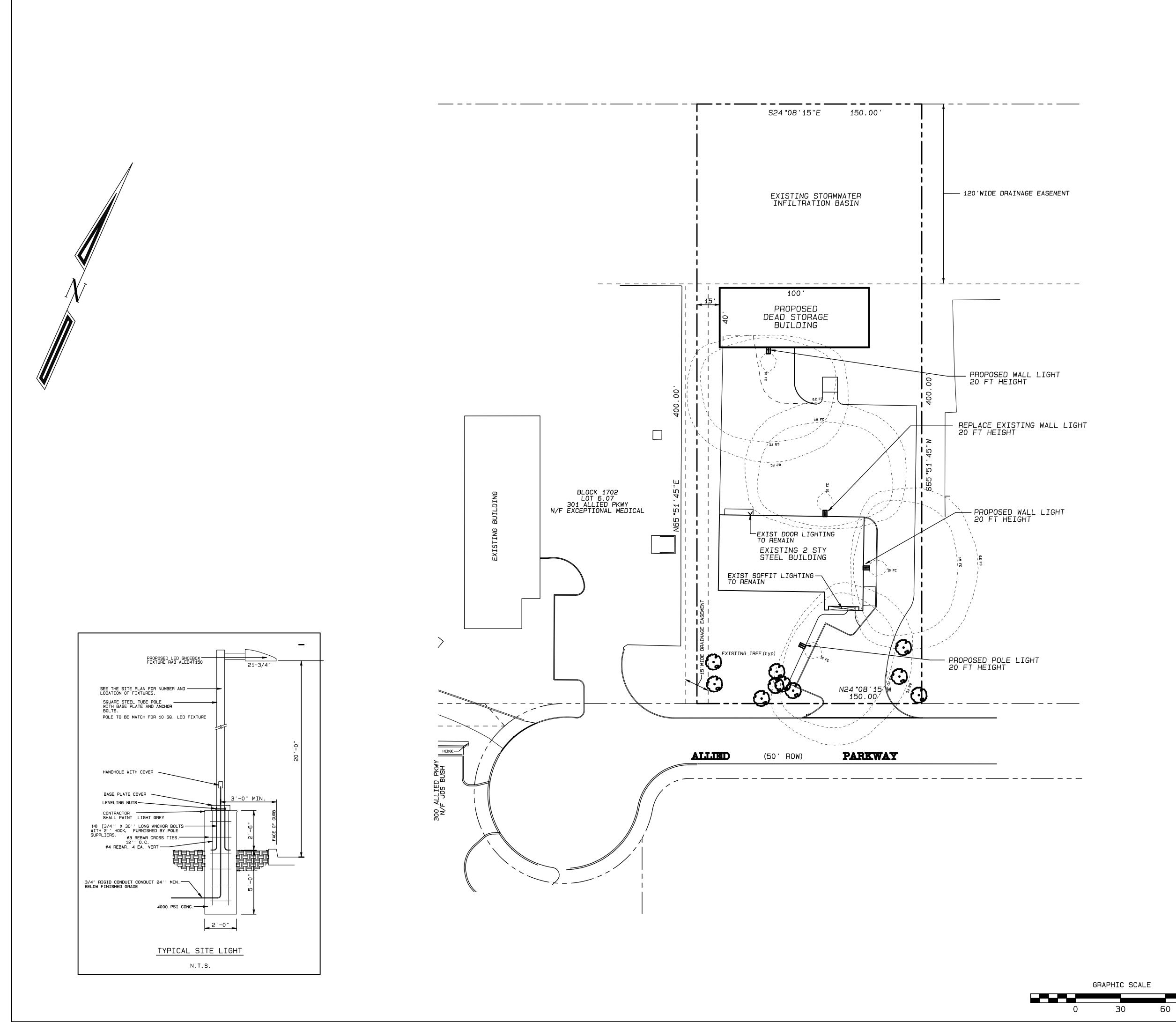


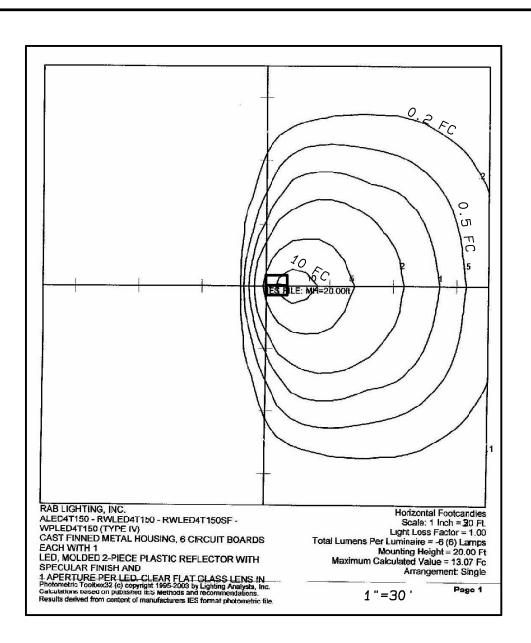
GRAPHIC SCALE

1"=30'

DRAWN TM 8/27/2021 CHECKED JJG SCALE 1"=30' DATE 2/2021 PROJECT 40102

SHEET 4 OF 6





LIGHTING REQUIREMENTS

1. AREA LIGHTS SHALL BE 6 SQUARE LED, 20' POLE MOUNT, (TYPE 4 DISTRIBUTION)
AS SUPPLIED BY RAB LIGHTING. THREE (3) WALL MOUNT, 20' HIGH ALSO PROPOSED.
MODEL ALED4T150 (4 SINGLE PROPOSED), OR APROVED EQUAL
2. EXISTING AREA LIGHT ON REAR TO BE REPLACED, INCLUDED IN NUMBER ABOVE.
3. ALL AREAS LIGHTS SHALL BE SETBACK A MINIMUM OF FIVE (5) FEET
BEHIND THE CURB LINE OR BOLLARD PROTECTION SHALL BE PROVIDED.
4. LIGHTS SHALL BE SHIELDED, AS REQUIRED, TO MINIMIZE GLARE AND
SPILLAGE ONTO ADJOINING PROPERTIES AND AREAS.
5. LIGHTING SUBJECT TO NIGHTIME INSPECTION TO DETERMINE SHIELDING
REQUIREMENTS AND TO VERIFY 1.0 FC LEVELS IN ALL PARKING AREAS.
6. ALL WIRING ASSOCIATED WITH THE SITE LIGHTING SHALL BE UNDERGROUND SERVICES.
7. PARKING LOT LIGHTING (EXCEPT SECURITY) TO BE SET ON TIMERS TO
EXTINGUISH DURING NON OPERATIONAL HOURS.
8. ORIENT FIXTURES AS INDICATED ON THE PLAN.
9. EXISTING SOFFIT LIGHTS IN THE FRONT OF THE BUILDING AND AT REAR DOOR SHALL REMAIN.
ILLUMINATION LEVELS BELOW THE SOFFIT IN THE SIDEWALK AREAS SHALL BE
AN AVERAGE OF 1.0 FC MINIMUM.

LIGHTING TABULATION

NEW 20' HIGH POLE - SINGLE FIXTURE = 1 NEW 20' BUILDING MOUNT FIXTURES = 2 REPLACEMENT 20' BUILDING LIGHT = 1



RAB ALED4T150

1 8/27/2021 BERLIN TWP SUBMISSION		
1 8/27/2021 BERLIN TWP SUBMISSION		
	N TWP SUBMISSION	1 8/27/2021
REV. DATE		REV. DATE

LIGHTING PLAN

JACK J. GRAVLIN JR, P.E. MAILING ADDRESS

P.O. BOX 221, WEST BERLIN, NEW JERSEY 08091 PHONE: 609-965-0405 FAX: 609-965-0105 Email: jjgpe@verizon.net

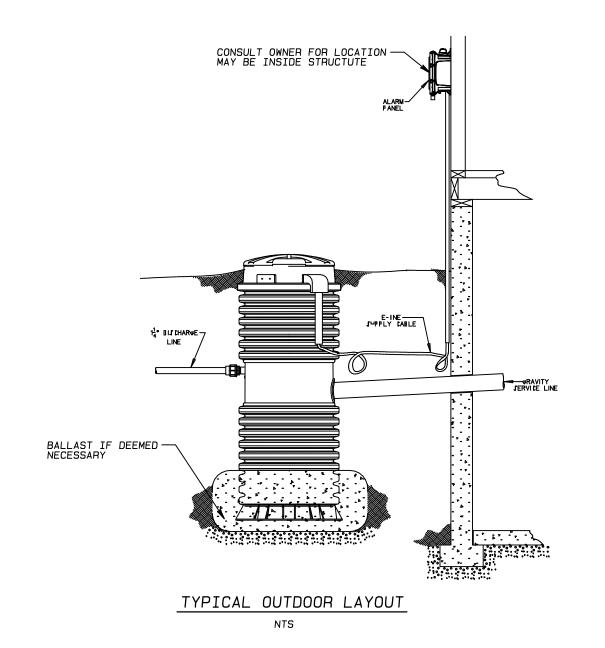
ARCADIAN ALLIED PROPERTIES, LLC BLOCK 1702 LOT 6.06

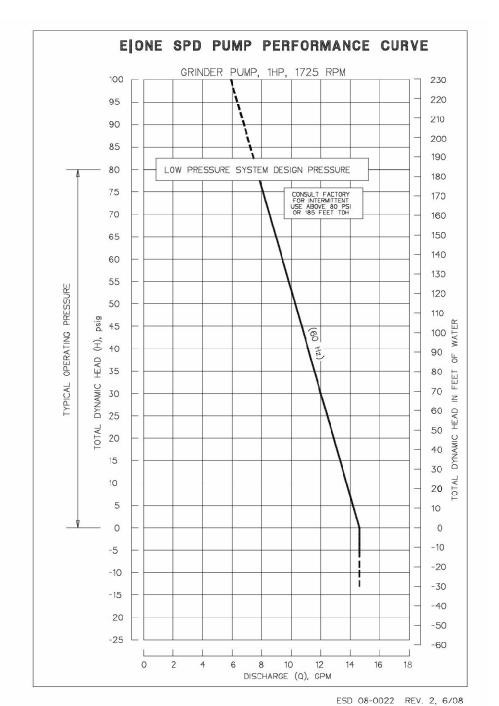
201 ALLIED PARKWAY BERLIN TOWNSHIP, CAMDEN CO., NEW JERSEY

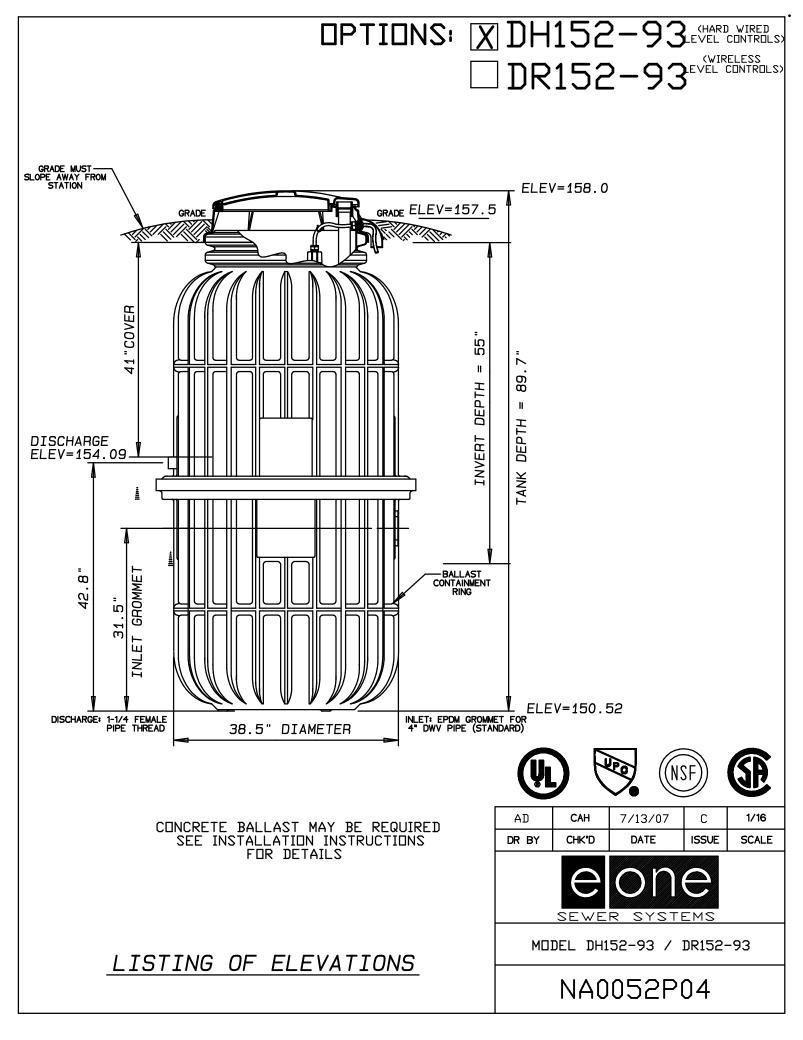


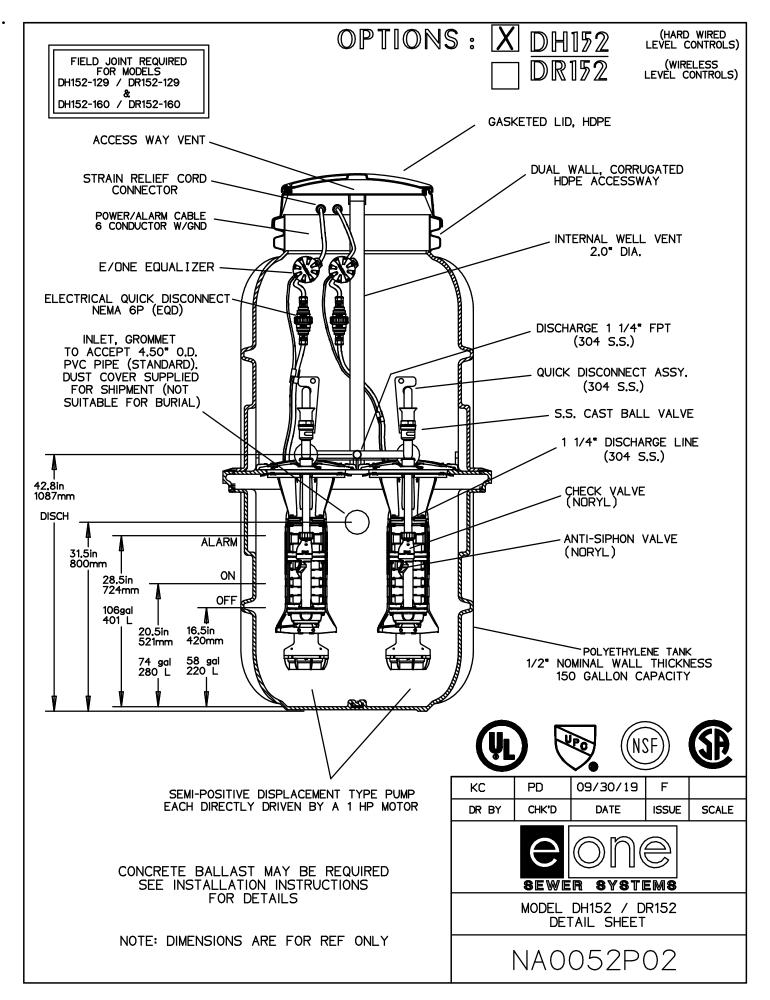
DRAWN TM 8/27/2021 CHECKED **JJG** SCALE 1"=30'

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GENERAL NOTES AND CONSTRUCTION REQUIREMENTS:

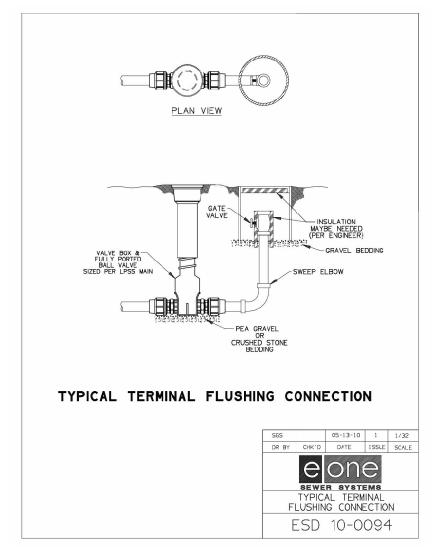
- . BEFORE PERFORMING ANY WORK, THE CONTRACTOR SHALL CONTACT THE "ONE CALL DIG NUMBER" (1-800-272-1000) FOR A MARK-OUT OF ALL UNDERGROUND UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE 'DIG NUMBER' AND TO ASCERTAIN THE LOCATION OF ALL UNDERGROUND CONSTRUCTION IN THE AREA OF THE PROJECT.
- 2. THE CONTRACTOR SHALL CONTACT AND COORDINATE FORCE MAIN INSTALLATION WITH ALL UTILITY COMPANIES. THE CONTRACTOR SHALL FULLY PROTECT ALL EXISTING UTILITY LINES AND MAINS, AS REQUIRED, DURING FORCE MAIN INSTALLATION.
- 3. ALL CONSTRUCTION SHALL CONFORM TO APPLICABLE CODES AND REQUIREMENTS OF BERLIN TWP., CAMDEN CO., AND THE STATE OF NEW JERSEY.
- 4. MATERIAL COMPRISING FORCE MAIN SHALL BE CONTINUOUS ROLLED PVC / POLY. ALL FORCE MAIN SHALL BE RATED FOR 160 PSI, NSF CERTIFIED AND INSTALLED WITH A TRACING WIRE LOCATABLE AT PROPOSED DEPTH. GRAVITY PIPE SHALL BE PVC SDR-35.
- 5. ALL FITTINGS AND PIPE JOINTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- 6. BACKFILL AROUND PUMP CHAMBER TO BE PLACED IN 8" LAYERS AND COMPACTED TO AVOID SETTLEMENT OR SHIFTING AND SHALL BE FREE OF LARGE STONES, ROOTS OR FOREIGN OBJECTS.
- 7. BUILDING (GRAVITY) SEWER TO BE CONSTRUCTED AS PER UNIFORM CONSTRUCTION CODE.
- 8. PIPES IN SYSTEM SHALL BE CONNECTED WITH ELBOW JOINTS NOT EXCEEDING 45 DEGREE ANGLE.
- 9. CONTRACTOR TO OBTAIN ALL REQUIRED PLUMBING, ELECTRICAL, AND ROAD OPENING PERMITS.
- 10. THE CONTRACTOR SHALL SUPPLY ALL REQUIRED SHEETING, SHORING, DEWATERING, VENTILATION REQUIRED FOR SAFE AND PROPER INSTALLATION OF SYSTEM COMPONENTS.
- 11. THE OWNER OF THE SUBJECT PROPERTY WILL BE THE OWNER AND OPERATOR OF THE PUMPING AND FORCE MAIN SYSTEM. THE OWNER WILL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION AND MAINTENANCE OF SYSTEM.
- 12. A WARNING LIGHT AND AUDIBLE ALARM SHALL BE PROVIDED. COORDINATE DUPLEX CONTROL PANEL AND ALARM LOCATIONS WITH OWNER OF BUILDING (POSSIBLE INTERIOR LOCATION)

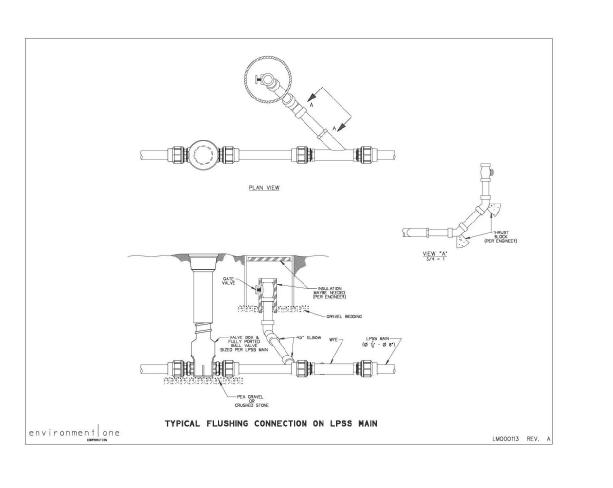
PUMPING EQUIPMENT

PACKAGED PUMP STATION SHALL BE MODEL DH152-93, DUPLEX (2) 1 HP MOTORS, HARD WIRED OPTION AS MANUFACTURED BY E ONE SEWER SYSTEMS.

CONTACT: Joseph P. Speese, New Business Development Manager Site Specific Design, Inc. 1704 Rockwell Rd | Abington PA 19001 jspeese@sitespecificsales.com | 0:215.887.3730 | M: 201.344.9118

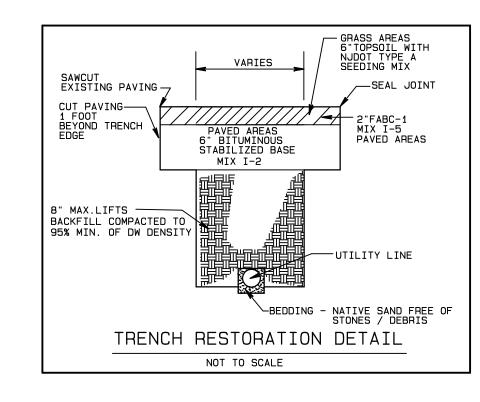
THE CONTRACTOR IS ADVISED THAT INSTALLATION INSTRUCTIONS, PUMP / ELECTRICAL INFORMATION, AND CONTROLS / ALARM INFORMATION & REQUIREMENTS ARE AVAILABLE AT THE COMPANY WEBSITE: https://eone.com/sewer-systems/products/grinder-pump-systems/d/dh071
THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE MANUFACTURER
AS LISTED THEREIN. CONTACT ENGINEER OR MANUFACTURER REP IF YOU NEED A PAPER COPY.

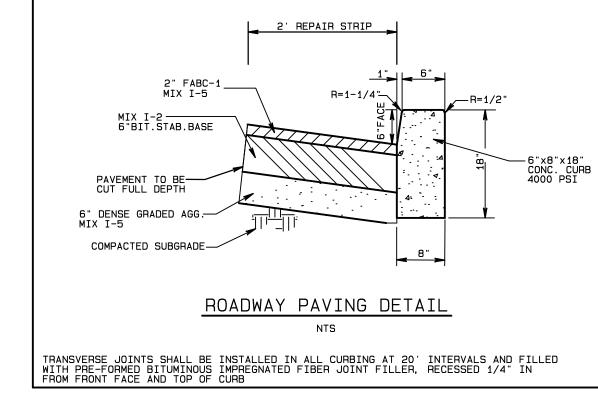


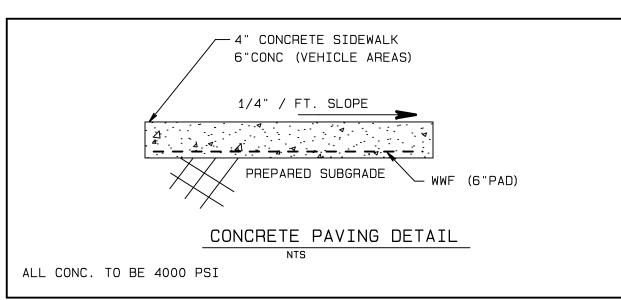


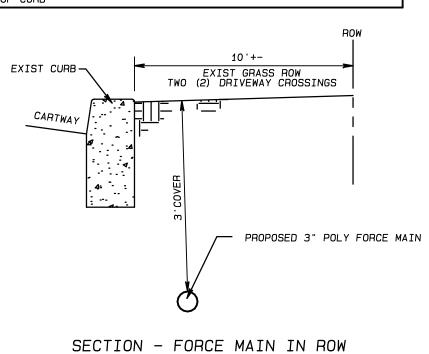
PUMPING SYSTEM SCOPE OF WORK

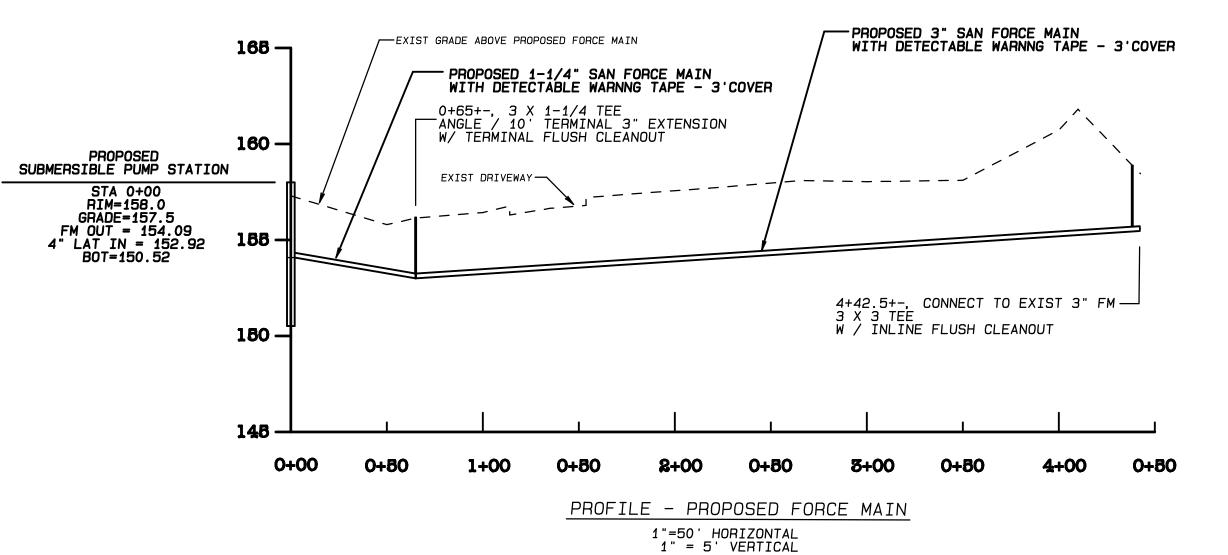
- . PROVIDE AND INSTALL PRE-PACKAGED DUPLEX GRINDER PUMP LIFT STATION, COMPLETE, WITH ALL REQUIRED EQUIPMENT, JUNCTION BOXES, ALARMS, ETC. NEEDED FOR A FULLY OPERATIONAL COMMERCIAL / DUPLEX PUMPING / LIFT STATION
- 2. PROVIDE AND INSTALL 1-1/4" & 3" PVC FORCE MAIN WITH TRACER WIRE
- 3. CONNECT FORCE MAIN TO EXISTING 3"SANITARY FORCEMAIN BY INSTALLATION OF 3 X 3 TEE.
- 4. PROVIDE & INSTALL FORCE MAIN CLEANOUTS BEFORE CUSHMAN AVE CONNECTION POINT AND AT END OF CAPPED SECTION.
- 5. RESTORE ALL DISTURBED AREAS IN KIND

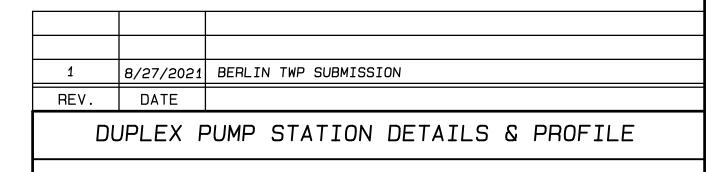












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B/27/2021

CHECKED JJG

SCALE NOTED

DATE 2/2021

PROJECT 40102

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