

Bid RFI Log – Nether Providence Public Works Garage		28-Apr-23
	Question	Response
1	Vinyl Siding Spec	CertainTeed Main Street line, single 6 1/2", Color TBD
2	Garage Door Spec	Raynor Garage Door - TM200C w/ carbon monoxide vent & (2) 24"x12" vision panels
3	Shingle Spec	Owens Corning - Supreme Line, 25yr warrantee
4	Window Spec	Kolbe Forgent Series
5	Attic Access Panel Spec	The attic access must be a insulated panel, a ladder is not required.
6	Exterior Louvers MC or GC	Please see the attached matrix also found in the bid documents.
7	Who is responsible for testing?	Testing of what particular system(s) are you referring?
8	Warranties required for architectural items	All product warranties are as issued by the manufacturer, contractor shall provide a one year labor warranty for all installations.
9	If bidding on more than one prime contractor position, how many copies of the bid documents are required?	One set of bid documents are required for each of the prime contractor positions sought.
10	Who is responsible for the shower surround? PC or GC	General Contractor shall install the surround. Coordinate w/ plumbing contractor.
11	Rock construction entrance appears to be located where the existing asphalt Driveway is outside of the full depth pavement restoration scope. Is the intent for this area to receive full depth pavement restoration upon completion of scope?	Yes, it is intended to be full depth and a complete restoration.
12	What are the limits of building utility's work?	Utility companies shall bring primary services to within 5' of the building where trade prime will take responsibilities.
13	Does the new door frame in the existing wall have a transom? If so, is it glass or solid panel?	No transom, door shall be custom to match opening.
14	Is door 102A a nine lite ? Door schedule just says type A	Office exterior door (102A) shall be nine light insulated glass.
15	Spec for Meter Pit	As required and approved by utility company.

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<u>Matrix Clarifications</u>		
16	19. FLOOR DRAINS – None shown on the floor plan only on Sanitary Riser Diagram.	Floor drain for shower is the only low drain.
17	20. TRENCH DRAINS – None shown on the floor plan	Not required
18	21. TRENCH SUMP – Not shown	Not required
19	26. SITE LIGHTS – None Shown	Not required
20	27. SITE LIGHT CONDUITS – None Shown	Not required
21	28. SITE LIGHT CIRCUITS – None Shown	Not required
22	29. SITE POLE BASES – None Shown	Not required
23	30. SITE EMPTY CONDUITS (FUTURE) – None Shown	Not required
24	32. OIL/WATER INTERCEPTOR (COORD. W/ CIVIL ENG.) – None Shown	Not required
25	35. PROJECT SCHEDULE (MPE, F/P) – Should this be by GC	Overall schedule shall be GC responsibility, w/ input from other trades.
26	36. PROJECT OFFICE (MPE, F/P) – is one required	Not required
27	38. PROJECT PORTAPOTTY (MPE, F/P) – Spec States GC Responsible	GC to provide and maintain
28	39. PROJECT RUBBISH DISPOSAL (MPE, F/P) – Should this be by GC (Dumpsters)	GC to provide and maintain dumpster, each trade is responsible for clearing their own by-products during construction.
29	40. PROJECT FINAL CLEANUP (MPE, F/P) – Should this be by GC	Final cleaning shall be GC responsibility, each trade is responsible for clearing their own trash and demo.
30	What is the specification for the chain link fence, galvanized or coated?	The chain link fence shall be galvanized.
31	Spec for split face block.	Fizzano standard color pallet, or approved equal. Color TBD from readily available pallet.

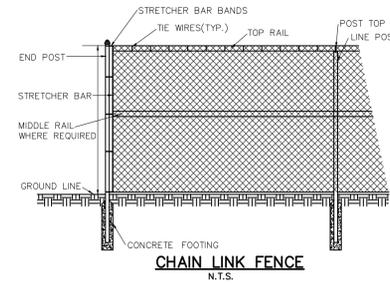
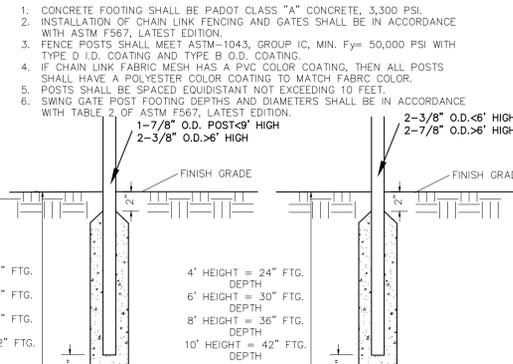
PA ONE CALL No. 20221363775

CALL BEFORE YOU DIG!
 PENNSYLVANIA LAW REQUIRES
 3 WORKING DAYS NOTICE FOR
 CONSTRUCTION PHASE AND 10 WORKING
 DAYS IN DESIGN STAGE - STOP CALL 8-1-1

Pennsylvania One Call System, Inc.
 1-800-242-1776
 8-1-1 (WITHIN PA.)

THE LOCATIONS OF ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT PA ONE-CALL AT 811 AT LEAST 3-DAYS BEFORE PROCEEDING WITH ANY EXCAVATION. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ACCURATE FIELD LOCATIONS OF ALL EXISTING UNDERGROUND AND AERIAL UTILITIES FROM BOTH THE UTILITY COMPANIES AND/OR BY TEST PITS PRIOR TO BEGINNING WORK. ALL UTILITY SERVICES WITHIN THE LIMITS OF WORK MUST ALSO BE FIELD LOCATED PRIOR TO EXCAVATION WORK. CONTRACTORS ARE TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE PLAN INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO TAKE ALL PREVENTIVE MEASURES TO PROTECT THE LINES IN ACCORDANCE WITH THE PA ONE-CALL ACT.

NOTES:

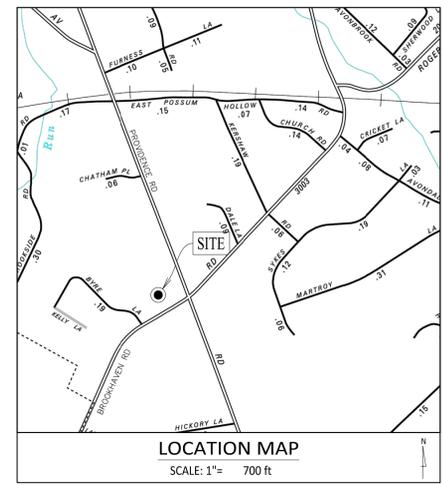


SOIL TYPE(S)

Me - MADE LAND SCHIST & GNEISS MATERIALS.

GENERAL CONSTRUCTION NOTES:

- ALL EXISTING FEATURES AND PROPOSED DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR MUST NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ADDITIONAL WORK DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF WRITTEN NOTIFICATION HAS NOT BEEN GIVEN TO THE ENGINEER.
- THIS DRAWING INDICATES THE APPROXIMATE LOCATION OF EXISTING SUBSURFACE UTILITIES IN THE VICINITY OF THE PROPERTY BASED ON AVAILABLE DATA AND ARE NOT GUARANTEED FOR ACCURACY AND/OR COMPLETENESS. THERE IS NO EXPRESSED OR IMPLIED AGREEMENT THAT UTILITY LOCATION, SIZE, DEPTH, ETC. EXIST OR ACCURACY. UTILITY INFORMATION SHOWN SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE SIZE, DEPTH AND LOCATION OF ALL UTILITIES IN ADVANCE OF ANY EXCAVATION OR BORING WORK. PA ACT 187 REQUIRES THAT CONTRACTORS CALL (811 OR 1-800-242-1776) BEFORE PERFORMING ANY EXCAVATION. ANY UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL 'MEANS AND METHODS' NECESSARY TO PREVENT SETTLEMENT, MOVEMENT, DAMAGES, OR COLLAPSE OF EXISTING STRUCTURES, UTILITIES, OR OTHER EXISTING IMPROVEMENTS INTENDED TO REMAIN BOTH ON OR OFF SITE.
- ALL EXISTING CURB DAMAGED OR REMOVED DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED WITH NEW CONCRETE CURB. PROVIDE NEW CURB WITH A SIX INCH (6") REVEAL WHEREVER IT CAN BE INSTALLED WITHOUT BACKING-UP RUNOFF FROM THE SIDEWALK AREAS. THE NEW CURB SHALL TIE-INTO EXISTING CURB WITH MATCHING CURB REVEAL. IF DEPRESSED CURB ARE PROPOSED AT DRIVEWAYS, THERE SHALL BE A MAXIMUM 1.5 INCH CURB REVEAL.
- ALL STREET RESTORATION SHALL BE BASED ON THE TRENCH RESTORATION DETAIL SHOWN ON THE PLANS.
- DEBRIS SHALL NOT BE BURIED ON THIS SITE/PROPERTY. ALL EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND APPLICABLE CODES. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY REMOVE AND DISPOSE OF HAZARDOUS/UNSUITABLE MATERIAL OFF-SITE AT AN APPROVED FACILITY IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS, ETC. REQUIRED BY ALL GOVERNING JURISDICTIONAL AGENCIES BOTH DURING AND AFTER CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR JOB CLOSE-OUT AND ISSUANCE OF CERTIFICATE OF OCCUPANCY UNLESS DIRECTED OTHERWISE BY THE OWNER.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, REFERENCED DOCUMENTS, AND THE REQUIREMENTS/STANDARDS OF ALL FEDERAL, STATE, AND LOCAL GOVERNING AUTHORITY.
- CATANIA ENGINEERING ASSOCIATES, INC. AND THEIR EMPLOYEES (CEA) ARE NOT RESPONSIBLE FOR THE CONSTRUCTION METHODS/MEANS FOR COMPLETING THE WORK SHOWN ON THESE PLANS NOR ANY REVISIONS WHICH RESULT FROM SAME. CEA IS ALSO NOT RESPONSIBLE FOR JOB SAFETY, NOR HAVE THEY BEEN RETAINED FOR SUCH SERVICES/PURPOSES.
- ALL CONCRETE SLAB ON GRADE CONSTRUCTED IN THE PAVED AREAS SHALL HAVE CORNERS CHAMFERED 45°. ALL SLAB ON GRADE CONCRETE SIDEWALK, WALKWAYS, PADS, ETC. SHALL BE PADOT CLASS 'A', 3,350 PSI AIR-ENTRAINED CONCRETE.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS BY LINN ARCHITECTS FOR BUILDING AND MEP PLANS BY ADVANCE ENGINEERING.



GENERAL NOTES:

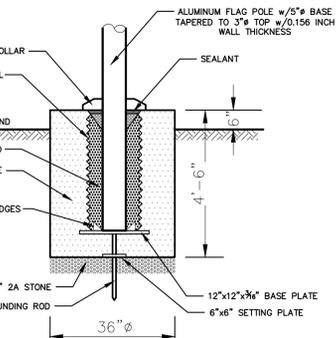
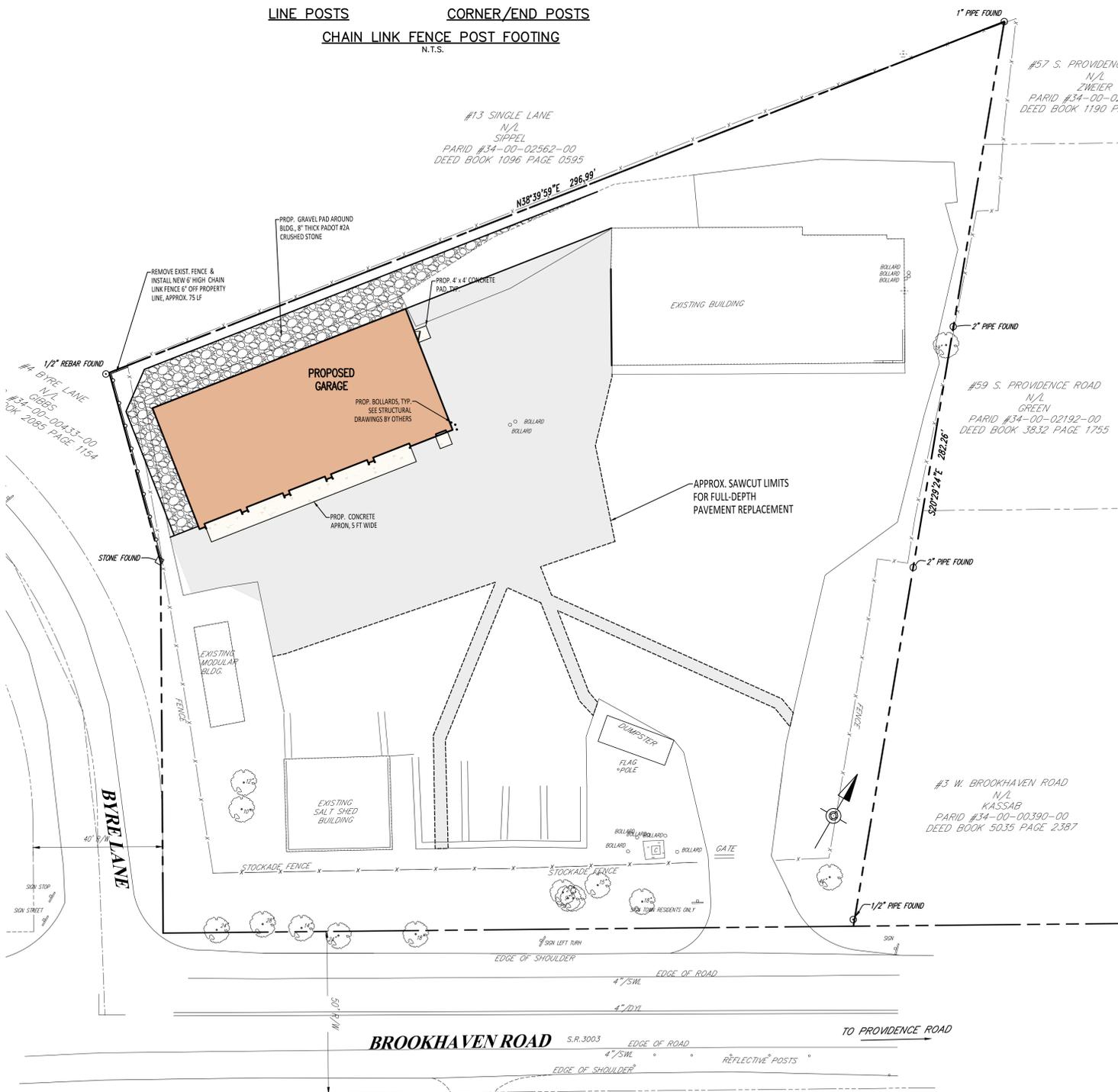
- BOUNDARY, TOPOGRAPHIC AND PHYSICAL IMPROVEMENTS SHOWN IS/ARE FROM FIELD SURVEY BY CATANIA ENGINEERING ASSOCIATES, INC. PERFORMED ON 5/02/2022.
- CONTOURS PLOTTED FROM FIELD RUN TOPOGRAPHIC SURVEY BY CATANIA ENGINEERING ASSOCIATES, INC. DATUM: ASSUMED. SITE BENCH IS A MAMMOTH IN W. BROOKHAVEN ROAD WITH A RIM ELEVATION= 98.80.
- UNDERGROUND UTILITIES SHOWN WERE PLOTTED FROM OBSERVABLE EVIDENCE AT THE TIME OF SURVEY AND INFORMATION FROM PLANS SUPPLIED BY UTILITY COMPANIES. NO GUARANTEE IS MADE THAT UNDERGROUND UTILITIES ARE ACCURATELY OR COMPLETELY SHOWN HEREIN.
- THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT, WHICH WOULD DISCLOSE ANY RIGHTS, RESERVATIONS, EASEMENTS, ETC. OF RECORD.
- ZONING INFORMATION OBTAINED FROM TOWNSHIP ZONING ORDINANCE (AS POSTED ON THE TOWNSHIP WEBSITE) AT TIME OF SURVEY. PROJECT ENGINEER IS RESPONSIBLE FOR CHECKING LATEST TOWNSHIP ORDINANCES FOR ANY & ALL UPDATES OR TOWNSHIP REVISIONS.
- THIS PROPERTY IS LOCATED WITHIN FLOOD HAZARD ZONE 'X' AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS SHOWN ON FLOOD INSURANCE RATE MAP FOR DELAWARE COUNTY, PA. MAP NO. 4204SC0094F, DATED NOVEMBER 18, 2009.
- SOILS INFORMATION PROVIDED WITH SUPPORT FROM THE NATURAL RESOURCES CONSERVATION SERVICE. SOILS ATTRIBUTE DATA IS SERVED FROM THE NRCS SOIL DATA MART.
- ALL CONCRETE SLAB ON GRADE CONSTRUCTED IN THE PAVED AREAS SHALL HAVE CORNERS CHAMFERED 45°. ALL SLAB ON GRADE CONCRETE SIDEWALK, WALKWAYS, PADS, ETC. SHALL BE PADOT CLASS 'A', 3,350 PSI AIR-ENTRAINED CONCRETE.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS BY LINN ARCHITECTS FOR BUILDING AND MEP PLANS BY ADVANCE ENGINEERING.

LEGEND

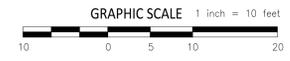
EXISTING	PROPOSED
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OWNER
 NETHER PROVIDENCE TOWNSHIP
 214 SYKES LANE
 WALLINGFORD, PA .19086
 PARID #34-00-00390-01
 DEED 12-24-1984
 AREA = 57,017 S.F. (GROSS)
 53,520 S.F. (NET)

- CONTRACTOR NOTES:**
- THE CONTRACTOR IS RESPONSIBLE TO FULLY COMPLY WITH THE NOTES AND SPECIFICATIONS CONTAINED HEREIN. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL SUBCONTRACTORS FULLY AND COMPLETELY CONFORM TO AND COMPLY WITH THESE REQUIREMENTS.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE TO VERIFY THAT HE/SHE HAS THE LATEST EDITION OF THE SITE PLAN DOCUMENTS.
 - PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR IS ALSO RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE COMMENTS TO ALL PLANS AND OTHER DOCUMENTS REVIEWED AND APPROVED BY THE PERMITTING AUTHORITIES AND CONFIRMED THAT ALL NECESSARY OR REQUIRED PERMITS HAVE BEEN OBTAINED. CONTRACTOR MUST HAVE COPIES OF ALL PERMITS AND APPROVALS ON SITE AT ALL TIMES.
 - THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS/APPROVALS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 - CONTRACTOR MUST REFER TO THE ARCHITECTURAL/BUILDING PLANS "OF RECORD" FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY LOCATIONS.
 - ALL DIMENSIONS SHOWN ON THE PLANS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST NOTIFY ENGINEER, IN WRITING, IF ANY CONFLICTS, DISCREPANCIES, OR AMBIGUITIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR WORK WHICH HAS TO BE REDONE OR REPAIRED DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO CONTRACTOR GIVING ENGINEER WRITTEN NOTIFICATION OF SAME AND ENGINEER, THEREAFTER, PROVIDING CONTRACTOR WITH WRITTEN AUTHORIZATION TO PROCEED WITH SUCH ADDITIONAL WORK.
 - THE CONTRACTOR, IN ADDITION TO OTHER NOTES PROVIDED WITHIN THE APPROVED PLANS, SHALL BE RESPONSIBLE FOR COMPLYING WITH THE LATEST OSHA STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES.
 - THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING WHEN SHORING IS REQUIRED AND FOR INSTALLING ALL SHORING REQUIRED DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PRECAUTIONS TO BE TAKEN TO ASSURE THE STABILITY OF ADJACENT, NEARBY AND CONTIGUOUS STRUCTURES AND PROPERTIES.
 - THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN AS-BUILT RECORDS OF THE WORK.
 - THE CONTRACTOR SHALL ENSURE COMPLIANCE WITH ALL TERMS AND CONDITIONS SET FORTH IN THE APPROVALS AND PERMITS ISSUED BY MUNICIPAL, COUNTY, STATE AND FEDERAL AGENCIES RELATING TO THE WORK. THE CONTRACTOR, AT HIS SOLE EXPENSE, SHALL PROMPTLY CORRECT ALL VIOLATIONS REPORTED OR NOTED BY MUNICIPAL, COUNTY, STATE OR FEDERAL OFFICIALS RELATING TO OR ARISING FROM CONTRACTOR'S OR ITS SUBCONTRACTOR'S FAILURE TO PERFORM THE WORK IN ACCORDANCE WITH THE TERMS AND CONDITIONS SET FORTH IN THE APPROVALS AND PERMITS.
 - IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED THEREON, WITHOUT FIRST OBTAINING PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE OWNER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE. ALL FINES OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM, THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS TO CORRECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING THEREFROM.
 - CONTRACTOR IS TO EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ADJACENT TO PAVEMENT, STRUCTURES, ETC. INTENDED TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND STABILITY OF STRUCTURES, SIDEWALKS, PAVEMENT, AND ANY OTHER IMPROVEMENTS TO REMAIN ON THE PROPERTY, AND TO PROVIDE A SAFE WORK AREA.
 - ALL CONTRACTORS MUST SUBMIT TO THE OWNER EVIDENCE OF HAVING ALL APPROPRIATE INSURANCE COVERAGE. ALL CONTRACTORS MUST HAVE THEIR CERTIFICATE OF INSURANCE POLICIES ENDORSED TO NAME IN ADDITION TO THE OWNER, CATANIA ENGINEERING ASSOCIATES, INC. AS ADDITIONAL INSURED AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THE HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH OWNER AND ENGINEER WITH CERTIFICATIONS OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY THE LAW, INDEMNIFY AND HOLD HARMLESS THE OWNER AND CATANIA ENGINEERING, INC FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS.
 - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOBSITE SAFETY.
 - THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLAN FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL EITHER IN THE R.O.W. OR ON SITE. THE COST FOR THIS ITEM MUST BE INCLUDED IN THE CONTRACTOR'S PRICE.
 - NEITHER THE PROFESSIONAL ACTIVITIES OF ENGINEER NOR THE PRESENCE OF ENGINEER OR ITS EMPLOYEES AT A CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERVISING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH AND SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. ENGINEER AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES.
 - THE ENGINEER WILL REVIEW AND ACCEPT OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN, NOT CONSTRUCTION MEANS OR METHODS. COORDINATION OF THE WORK WITH OTHER TRADES, OR CONSTRUCTION SAFETY PRECAUTIONS, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER SHALL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
 - THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR CONSTRUCTION METHODS / MEANS FOR COMPLETION OF THE WORK DEPICTED ON THESE PLANS NOR ANY CONFLICTS / SCOPE REVISIONS WHICH RESULT FROM THE SAME. THE CONTRACTOR IS RESPONSIBLE TO PROMPTLY NOTIFY OWNER AND ENGINEER, IN WRITING, WHEN A CONFLICT IS IDENTIFIED.



FLAG POLE FOUNDATION
 N.T.S.



INFORMATION SHOWN ON THIS PLAN IS THE RESULT OF PROFESSIONAL SERVICES AS RENDERED BY CATANIA ENGINEERING ASSOCIATES, INC. REPRODUCTION OF THIS PLAN FOR THE PURPOSE OF CREATING ADDITIONAL COPIES OR REVISING PLAN WITHOUT APPROVAL OF CATANIA ENGINEERING ASSOCIATES, INC. IS PROHIBITED. CERTIFICATION FOR THE WORK CONTAINED HEREIN IS LIMITED TO THE ENTITY FOR WHOM THE WORK WAS PERFORMED, AS OF THE DATE SHOWN ON THESE PLANS.				
NO.	DATE	REVISION	DWN BY	CKD BY
3	04-25-2023	PADOT COMM.	AHR	AHR
2	03-29-2023	ISSUE FOR BID	AHR	AHR
1	02-27-2023	PADOT HOP	AHR	AHR



CATANIA ENGINEERING ASSOCIATES, INC.
 520 WEST MacDADE BLVD.
 MILMONT PARK, PA. 19033
 TEL. (610) 532-2884
 FAX. (610) 532-2923
 EMAIL: office1@cataniaengineering.com

SITE PLAN - BASE BID
RECYCLING CENTER
NETHER PROVIDENCE TOWNSHIP

PA ONE CALL No. 20221363775
CALL BEFORE YOU DIG!
 PENNSYLVANIA LAW REQUIRES
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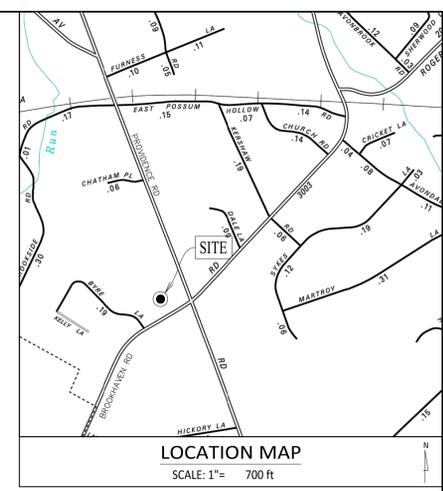
- COMPANY: CHESTER WATER AUTHORITY
 ADDRESS: 401 FULTON STREET
 PO BOX 467
 CHESTER, PA. 19013
 GENERAL NUMBER: (610) 876-8181
 CONTACT: VITO PAGANO
 EMAIL: VITO.PAGANO@CHESTERWATER.COM
- COMPANY: COMCAST
 ADDRESS: 110 SPRINGBROOKE BOULEVARD
 ASTON, PA. 19010
 GENERAL NUMBER: (800) 266-2278
 CONTACT: RICH KAIN
 EMAIL: RICHARD_KAIN@CABLE.COMCAST.COM
- COMPANY: AQUA PENNSYLVANIA
 ADDRESS: 762 W LANCASTER AVENUE
 BRYN MAWR, PA. 19010
 GENERAL NUMBER: (877) 987-2782
 CONTACT: JAMES THORNTON
 EMAIL: JDTHORNTON@AQUAAMERICA.COM
- COMPANY: CATANIA ENGINEERING ASSOCIATES INC
 ADDRESS: 520 W MACDADE BLVD
 WILMONT PARK, PA. 19033
 GENERAL NUMBER: (610) 532-2884
 CONTACT: CHARLES CATANIA
 EMAIL: CDCA@CATANIAENGINEERING.COM
- COMPANY: PECO ENERGY C/O USIC
 ADDRESS: 450 S HENDERSON RD SUITE B
 KING OF PRUSSIA, PA. 19406
 GENERAL NUMBER: (484) 681-5720
 CONTACT: NIKKIA SIMPKINS
 EMAIL: NIKKIA.SIMPKINS@USICLLC.COM
- COMPANY: NETHER PROVIDENCE TOWNSHIP
 ADDRESS: 214 SYKES LN
 WALLINGFORD, PA. 19086
 GENERAL NUMBER: (610) 566-4516
 CONTACT: DARRYL DIXON
 EMAIL: DDIXON@NETHERPROVIDENCE.ORG
- COMPANY: VERIZON PENNSYLVANIA LLC
 ADDRESS: 1050 VIRGINIA DR
 FORT WASHINGTON, PA. 19033
 GENERAL NUMBER: (855) 805-5200
 CONTACT: DARLINE LEPPERD JOHNSON

GENERAL PERMIT NOTES:

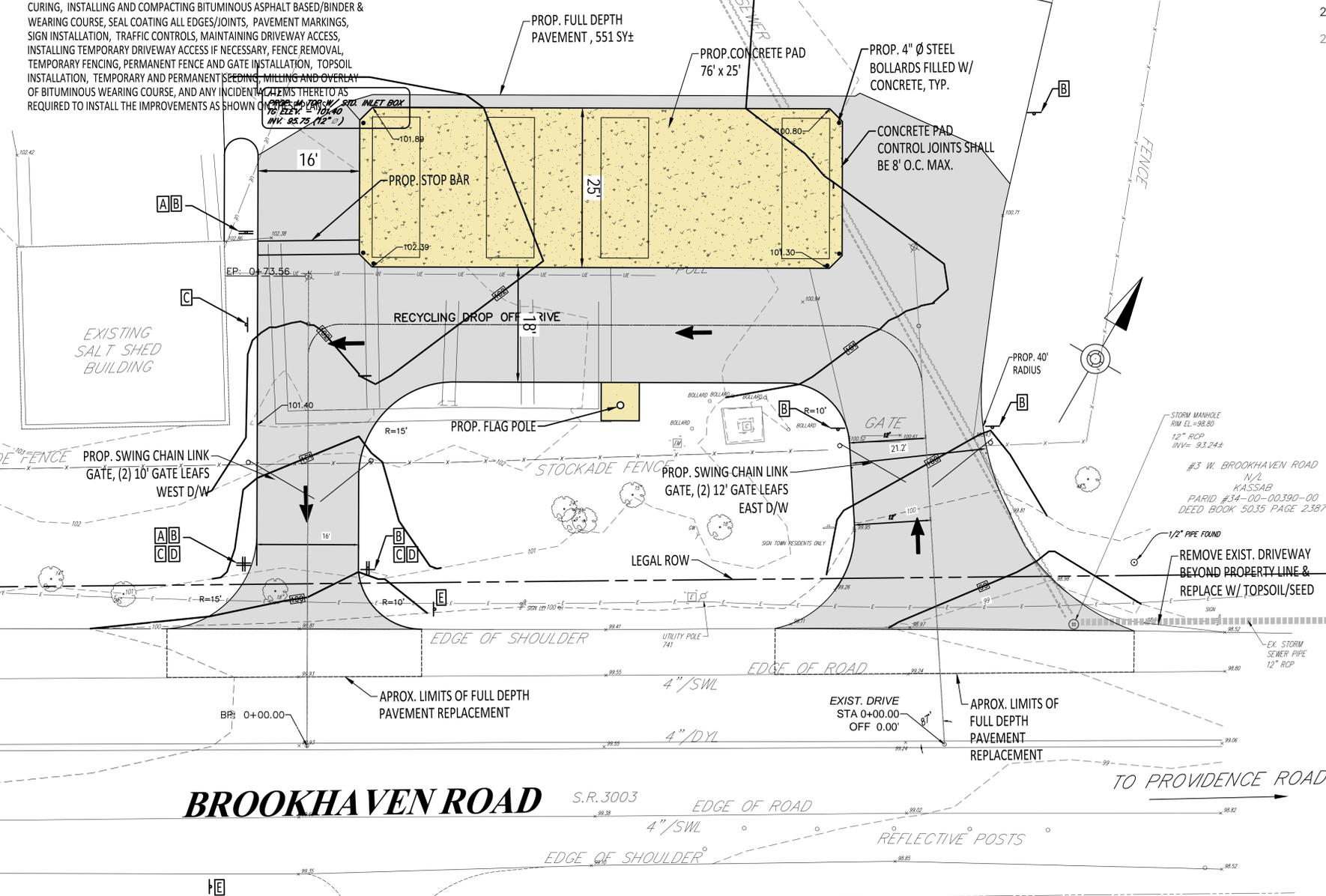
- THE EXISTING SPEED LIMIT ON S.R. 3003 IS 35 M.P.H.
- THE RIGHT-OF-WAY IS FREE ACCESS.
- ALL WORK IN PA STATE HIGHWAY RIGHT-OF-WAY IS TO BE PERFORMED CONSISTENT WITH THE FOLLOWING.
 - PENNDOT PUBLICATION 13M, DESIGN MANUAL PART 2 - HIGHWAY DESIGN
 - PENNDOT PUBLICATION 34, APPROVED AGGREGATE PRODUCERS (BULLETIN 14)
 - PENNDOT PUBLICATION 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15)
 - PENNDOT PUBLICATION 41, PRODUCERS OF BITUMINOUS MATERIALS (BULLETIN 41)
 - PENNDOT PUBLICATION 42, PRODUCERS OF READY-MIX CONCRETE (BULLETIN 42)
 - PENNDOT PUBLICATION 46, TRAFFIC ENGINEERING MANUAL
 - PENNDOT PUBLICATION 72M, STANDARDS FOR ROADWAY CONSTRUCTION
 - PENNDOT PUBLICATION 111, PAVEMENT MARKINGS AND SIGNING STANDARDS
 - PENNDOT PUBLICATION 212, OFFICIAL TRAFFIC CONTROL DEVICES
 - PENNDOT PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES
 - PENNDOT PUBLICATION 408, SPECIFICATIONS
 - PENNDOT PUBLICATION 888 STORMWATER CONTROL MEASURES MANUAL
 - PENNDOT PUBLICATION 584 PENNDOT DRAINAGE MANUAL
- DETAILS, OTHER THAN THOSE INDICATED, ARE ON THE FOLLOWING STANDARD DRAWINGS RC'S: 64-M, 67-M, 72-M AND 80-M PER CHANGE #9.
- THE DRIVEWAY HAS BEEN DESIGNED (AND WILL BE CONSTRUCTED AND MAINTAINED) CONSISTENT WITH TITLE 67, CHAPTER 441 REGULATIONS.
- PA STATE HIGHWAY RIGHT-OF-WAY MAY NOT BE USED FOR PARKING.
- PERMITTEE IS RESPONSIBLE FOR MAINTENANCE OF ALL AUTHORIZED STRUCTURES, FACILITIES AND DRAINAGE.
- PERMITTEE IS RESPONSIBLE FOR MAINTENANCE OF ALL AUTHORIZED SIGNS AND PAVEMENT MARKINGS.
- CONTACT PENNSYLVANIA ONE-CALL (1-800-242-1776) THREE WORKING DAYS BEFORE EXCAVATION OR DEMOLITION WORK. SERIAL NUMBER FOR Nether Providence Township.
- ANTICIPATED AVERAGE DAILY TRAFFIC (ADT) FOR THE PROPOSED ACCESS IS:

200 CARS
45 SINGLE UNIT TRUCKS AND COMBINATIONS
ANTICIPATED DAILY TRIPS FOR THE PROPOSED ACCESS IS:
200 CARS
45 SINGLE UNIT TRUCKS AND COMBINATIONS

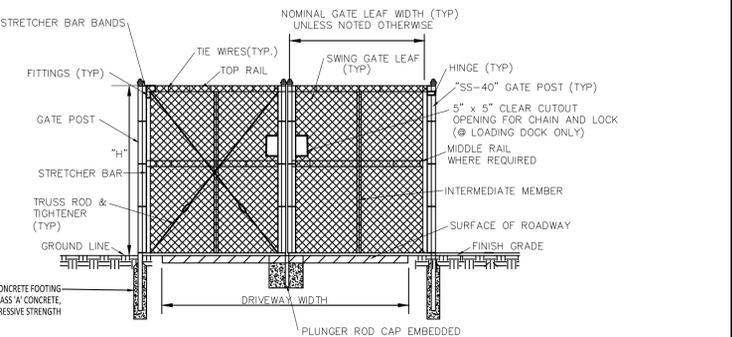
- DISTANCE TO THE NEAREST INTERSECTION IN: RT. 250' LT. 101'.
 DISTANCE TO THE NEAREST TRAFFIC SIGNAL IS 232 FEET.
 DISTANCE TO THE NEAREST OPPOSITE DRIVEWAY IS RT. 28' LT 97'.
 DISTANCE TO THE NEAREST ADJACENT DRIVEWAY IS RT. 185' LT 225'.
 (measurements taken looking into the site)
- IF A TRAFFIC SIGNAL IS WITHIN 500 FEET OF THE SITE, CALL THE DISTRICT TRAFFIC ENGINEER AT 610-205-6565 LEAST 3 DAYS PRIOR TO THE START OF WORK.
- THIS PERMIT MAY BE RESTRICTED ON WORKING HOURS AND TIMES FOR HOLIDAYS, WEEKENDS, AND SPECIAL OR UNFORESEEN EVENTS AND WILL REQUIRE APPROVAL FROM THE COUNTY OFFICE PRIOR TO WORKING DURING THESE PERIODS.
- THE PERMITTEE'S CONTRACTOR SHALL SAWCUT AND REMOVE SHOULDER MATERIAL AS NECESSARY TO ENSURE THE PAVEMENT REPLACEMENT IS ADJACENT TO THE FULL-DEPTH PAVEMENT OF THE TRAVEL LANE.
- FINAL APPROVAL OF THE PROPOSED SAWCUT LOCATION WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE AND WILL BE CONFIRMED AT THE PRE-CONSTRUCTION MEETING. IF THE SAWCUT MUST BE LOCATED WITHIN A TRAVEL LANE, IT WILL BE NECESSARY TO MILL AND OVERLAY THE TRAVEL LANE TO PREVENT A JOINT IN A WHEEL PATH.
- THE PROPOSED PAVEMENT SECTION MUST BE AS INDICATED ON THE PLAN, OR MATCH THE EXISTING AS FOUND IN THE FIELD, WHICHEVER IS GREATER.
- PRIOR TO AN OVERLAY, BITUMINOUS OR CONCRETE BASE REPAIR OR JOINT REPLACEMENT MAY BE REQUIRED. REPAIR/REPLACEMENT WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE.
- ALL EXISTING PAVEMENT MARKINGS WHICH ARE NO LONGER APPROPRIATE SHALL BE ERADICATED BY THE PERMITTEE. THE PERMITTEE SHALL PLACE ALL REQUIRED NEW PAVEMENT MARKINGS.
- ALL PAVEMENT MARKINGS OTHER THAN LONGITUDINAL LINES TO BE HOT THERMOPLASTIC (PENNDOT PUBLICATION 111, TC-8600).
- MATCH EXISTING PAVEMENT MARKINGS AT THE LIMITS OF WORK.
- MATERIAL CERTIFICATION MUST BE PROVIDED, BY AN APPROVED MANUFACTURER LISTED IN THE DEPARTMENT'S PUBLICATION 35 (BULLETIN 15), FOR ALL MATERIALS AND STRUCTURES WITHIN PENNDOT RIGHT-OF-WAY.
- ALL SLOPE MEASUREMENTS WILL BE INSPECTED/VERIFIED WITH A 2-FOOT SMART LEVEL.
- IT IS THE RESPONSIBILITY OF THE PERMITTEE TO REMOVE ANY DEBRIS AND FLUSH OUT ALL EXISTING AND NEW STORM DRAINAGE FACILITIES WITHIN THE PROJECT LIMITS AT THE COMPLETION OF THE CONSTRUCTION.
- MODIFICATIONS TO EXISTING DRAINAGE STRUCTURES MAY RESULT IN THE NEED TO REPLACE THE STRUCTURE. REPLACEMENT WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE.
- STRUCTURAL STEEL BICYCLE SAFE GRATES MUST BE PROVIDED FOR ALL INLETS WITHIN THE ROADWAY PAVEMENT OF THOSE THAT MAY RECEIVE BICYCLE TRAFFIC (PENNDOT PUBLICATION 72M, RC-45M).
- THE PERMITTEE IS RESPONSIBLE FOR THE COORDINATION OF RELOCATING ANY CONFLICTING UTILITIES WHICH ARE A RESULT OF THESE IMPROVEMENTS.
- ALL UTILITY RELOCATION PERMITS TAKE PRECEDENCE OVER THE UTILITY RELOCATION POSITIONS SHOWN ON THE HOP PLANS.
- (PROVIDE A LIST OF PUBLIC UTILITIES IN ACCORDANCE WITH ACT 287-1974. LIST THE NAME, ADDRESS WITH ZIP CODE, AND THE NAME, TITLE, AND TELEPHONE NUMBER OF THE APPROPRIATE UTILITY REPRESENTATIVE.)



- GENERAL NOTES:**
- BOUNDARY, TOPOGRAPHIC AND PHYSICAL IMPROVEMENTS SHOWN IS/ARE FROM FIELD SURVEY BY CATANIA ENGINEERING ASSOCIATES, INC. PERFORMED ON 5/02/2022.
 - BOUNDARY AND THE LEGAL RIGHT-OF-WAY ON SR 3003 FROM BYRE LANE TO PROVIDENCE ROAD, FROM STATION 1+00 TO 3+54 IS 50 FEET BASED ON A DEED RECORDED IN THE DELAWARE COUNTY RECORDER OF DEEDS ON 12-24-1984 IN DEED BOOK 9999, PAGE 9999. TAX PARCEL ID # 34-00-0039-001, TAX MAP NUMBER 34-12-146-000.
 - CONTOURS PLOTTED FROM FIELD RUN TOPOGRAPHIC SURVEY BY CATANIA ENGINEERING ASSOCIATES, INC. DATUM: ASSUMED. SITE BENCH IS A STORM MANHOLE IN W. BROOKHAVEN ROAD/EXISTING DRIVEWAY WITH A RIM ELEVATION= 98.80.
 - UNDERGROUND UTILITIES SHOWN WERE PLOTTED FROM OBSERVABLE EVIDENCE AT THE TIME OF SURVEY AND INFORMATION FROM PLANS SUPPLIED BY UTILITY COMPANIES. NO GUARANTEE IS MADE THAT UNDERGROUND UTILITIES ARE ACCURATELY OR COMPLETELY SHOWN HEREON.
 - EXISTING UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES AND CANNOT BE GUARANTEED AS TO THE ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO EXCAVATION. WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTION, TEST PITS MUST BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING INVERTS, MATERIALS AND SIZES. TEST PIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENT AS REQUIRED TO AVOID CONFLICTS. ANY EXISTING UTILITY SERVICE CONNECTIONS LOCATED BY THE CONTRACTOR, CAPABLE OF SERVING THE PROPOSED USE SHALL BE REUSED AS LONG AS THEY ARE IN GOOD CONDITION AND MEET THE AUTHORITY'S STANDARDS AND SPECIFICATIONS. IF THE EXISTING UTILITY SERVICES DO NOT MEET THE ABOVE CRITERIA, THEN NEW SERVICE LINES SHALL BE INSTALLED.
 - THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT, WHICH WOULD DISCLOSE ANY RIGHTS, RESERVATIONS, EASEMENTS, ETC... OF RECORD.
 - ZONING INFORMATION OBTAINED FROM TOWNSHIP ZONING ORDINANCE (AS POSTED ON THE TOWNSHIP WEBSITE) AT TIME OF SURVEY. PROJECT ENGINEER IS RESPONSIBLE FOR CHECKING LATEST TOWNSHIP ORDINANCES FOR ANY & ALL UPDATES OR TOWNSHIP REVISIONS.
 - DO NOT SCALE DRAWINGS AS THEY PERTAIN TO ADJACENT AND SURROUNDING PHYSICAL CONDITIONS, BUILDINGS, STRUCTURES, ETC. THEY ARE SCHEMATIC ONLY, EXCEPT WHERE DIMENSIONS ARE SHOWN THERETO.
 - THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY FIELD OR SOIL CONDITIONS ENCOUNTERED DIFFER FROM THOSE REPRESENTED HEREON. SUCH CONDITIONS COULD RENDER THE DESIGNS HEREON INAPPROPRIATE OR INEFFECTIVE.



- NOTES:**
- SWING GATE MATERIAL AND CONSTRUCTION SHALL CONFORM TO ASTM F900, ASTM F1043 (ALUMINUM GATE FRAME), AND ASTM F1083 (ZINC COATED STEEL FRAME).
 - ALL GATE FRAME CORNERS SHALL BE WELDED.
 - GATE FABRIC SHALL BE THE SAME TYPE AS USED IN THE FENCE CONSTRUCTION, UNLESS NOTED OTHERWISE.
 - GATE FRAME SHALL BE DESIGNED AND BUILT SO THAT THE OUTER MEMBER SHALL NOT SAG IN EXCESS OF THE LESSOR OF 1% OF THE GATE LEAF WIDTH OR 2 INCHES.
 - DOUBLE GATE LATCH LOCKING DEVICES SHALL BE CONSTRUCTED SO THAT THE PLUNGER ROD CANNOT BE RAISED WHEN THE GATE IS LOCKED.
 - GATE STOPS SHALL BE PROVIDED FOR ALL DOUBLE GATES. KEEPER SHALL BE PROVIDED FOR EACH GATE LEAF OVER 5 FT.
 - DISTANCE BETWEEN GATE POSTS SHALL PROVIDE MIN. 18 INCH CLEARANCE BETWEEN GATE END EDGE OF PAVING/FACE OF CURB.



GATE LOCATION	DRIVEWAY WIDTH (FT)	HEIGHT "H" (FT)	NOMINAL GATE LEAF WIDTH (FT)	NOMINAL POST SIZE (INCHES)	POST FTG. DIAMETER (INCHES)	POST FTG. DEPTH (INCHES)	POST MATERIAL	REMARKS
WEST D/W	20	6	10	6	18"	48"	GALV. STEEL	
EAST D/W	24	6	12	6	18"	48"	GALV. STEEL	

NO.	DATE	REVISION	DWN. BY	CHK. BY
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2	03-23-2022	ISSUE FOR BID	AHR	AHR
1	03-20-2023	PADOT HOP	AHR	AHR

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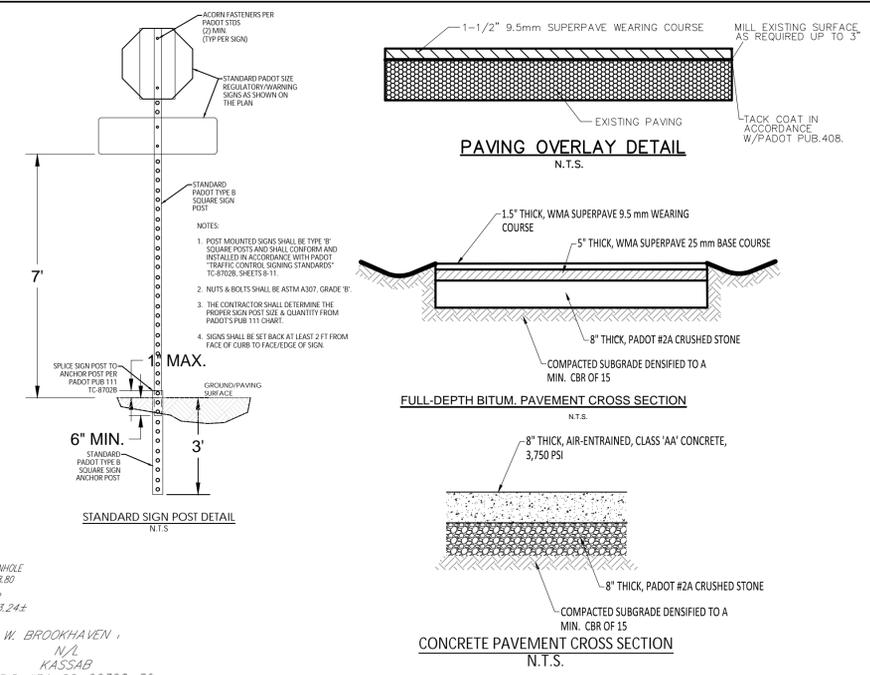
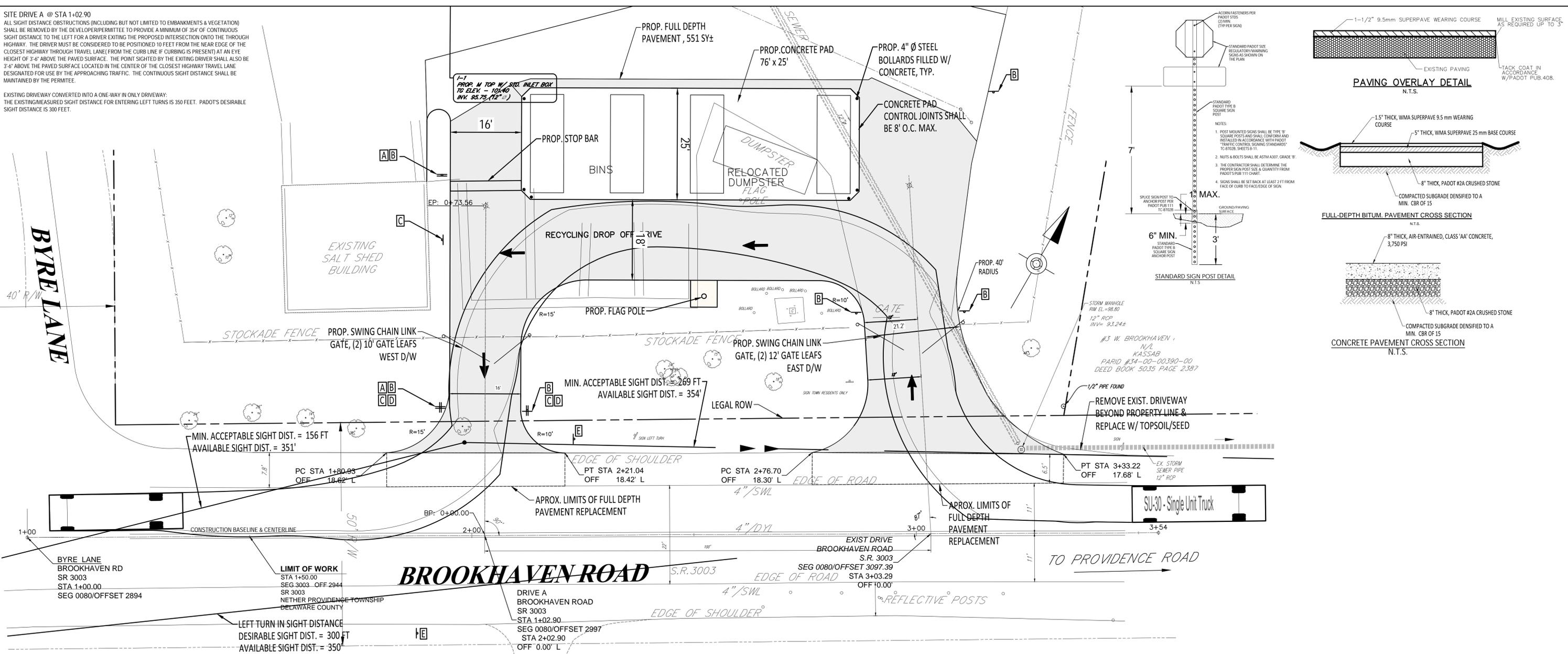
CEA
 CATANIA ENGINEERING ASSOCIATES, INC.
 520 WEST MACDADE BLVD.
 WILMONT PARK, PA. 19033
 TEL. (610) 532-2884
 FAX. (610) 532-2923
 EMAIL: office1@cataniaengineering.com



SITE/GRADING PLAN - ADD ALTERNATE HOP APPLICATION # 303692 RECYCLING CENTER
 NETHER PROVIDENCE TOWNSHIP

SITE DRIVE A @ STA 1+02.90
 ALL SIGHT DISTANCE OBSTRUCTIONS (INCLUDING BUT NOT LIMITED TO EMBANKMENTS & VEGETATION) SHALL BE REMOVED BY THE DEVELOPER/PERMITEE TO PROVIDE A MINIMUM OF 354' OF CONTINUOUS SIGHT DISTANCE TO THE LEFT FOR A DRIVER EXITING THE PROPOSED INTERSECTION ONTO THE THROUGH HIGHWAY. THE DRIVER MUST BE CONSIDERED TO BE POSITIONED 10 FEET FROM THE NEAR EDGE OF THE CLOSEST HIGHWAY THROUGH TRAVEL LANE (FROM THE CURB LINE IF CURBING IS PRESENT) AT AN EYE HEIGHT OF 3'-6" ABOVE THE PAVED SURFACE. THE POINT SIGHTED BY THE EXITING DRIVER SHALL ALSO BE 3'-6" ABOVE THE PAVED SURFACE LOCATED IN THE CENTER OF THE CLOSEST HIGHWAY TRAVEL LANE DESIGNATED FOR USE BY THE APPROACHING TRAFFIC. THE CONTINUOUS SIGHT DISTANCE SHALL BE MAINTAINED BY THE PERMITEE.

EXISTING DRIVEWAY CONVERTED INTO A ONE-WAY IN ONLY DRIVEWAY:
 THE EXISTING MEASURED SIGHT DISTANCE FOR ENTERING LEFT TURNS IS 350 FEET. PADOT'S DESIRABLE SIGHT DISTANCE IS 300 FEET.



BYRE LANE
 BROOKHAVEN RD
 SR 3003
 STA 1+00.00
 SEG 0080/OFFSET 2894

LIMIT OF WORK
 STA 1+50.00
 SEG 3003 - OFF 2944
 SR 3003
 NETHER PROVIDENCE TOWNSHIP
 DELAWARE COUNTY

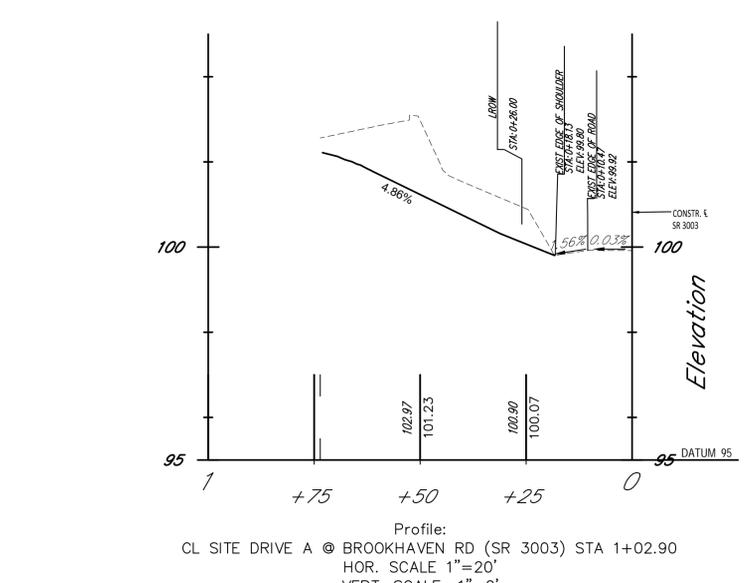
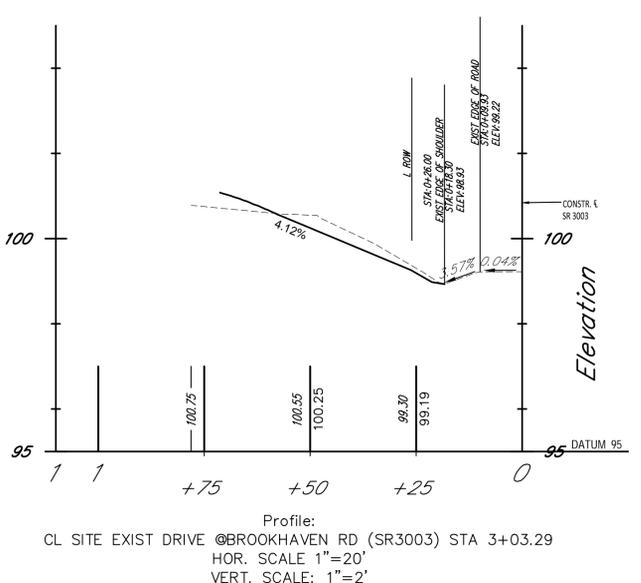
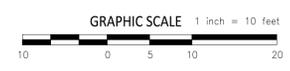
LEFT TURN IN SIGHT DISTANCE
 DESIRABLE SIGHT DIST. = 300 FT
 AVAILABLE SIGHT DIST. = 350'

BROOKHAVEN ROAD S.R. 3003

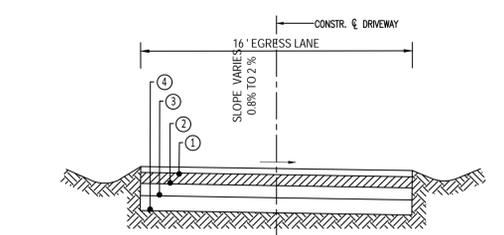
DRIVE A
 BROOKHAVEN ROAD
 SR 3003
 STA 1+02.90
 SEG 0080/OFFSET 2997
 STA 2+02.90
 OFF 0.00' L

EXIST DRIVE
 BROOKHAVEN ROAD
 S.R. 3003
 SEG 0080/OFFSET 3097.39
 STA 3+03.29
 OFF 10.00'

TO PROVIDENCE ROAD



- PAVEMENT IN ROW NOTES:
- ASPHALT TACK COAT TO BE PLACED BETWEEN ALL PAVEMENT LAYERS.
 - A GEOTEXTILE, TYPE 4 FABRIC SHALL BE PLACED OVER THE COMPLETED SUBGRADE. ONLY AFTER THE PADOT INSPECTOR APPROVES THE SUBGRADE.
 - IF THE EXISTING ROAD MATERIAL DEPTHS ARE GREATER IN THE FIELD, THEN MATCH EXISTING DEPTHS.
 - ALL LONGITUDINAL PAVEMENT JOINTS SHALL BE SEALED WITH PG 64-22.



- SUPERPAVE ASPHALT MIX DESIGN, WEARING COURSE, PG 64-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1.5" DEPTH, SRL - E
- SUPERPAVE ASPHALT MIX DESIGN, BINDER COURSE, PG 64-22, < 0.3 MILLION ESALS, 19 MM MIX, 2.5" DEPTH, SRL - E
- SUPERPAVE ASPHALT MIX DESIGN, BASE COURSE, PG 64-22, < 0.3 MILLION ESALS, 25 MM MIX, 6" DEPTH, SRL - E
- SUBBASE 6" DEPTH, #2A CRUSHED STONE

SEQUENCE OF CONSTRUCTION:

DURING THE CONSTRUCTION OF THE NEW DRIVEWAY AND ANY OTHER UNDERGROUND UTILITY WORK ADJACENT TO THE ROADWAY CONSTRUCTION AREAS, PROVIDE ADEQUATE VEHICULAR AND PEDESTRIAN TRAFFIC PROTECTION AT ALL TIMES BY UTILIZING THE FOLLOWING:

- SHORT-TERM TRAFFIC CONTROL OPERATIONS AND SIGNING AND DEVICES OUTLINED IN 'PATA 101-A' FOR WORK ALONG BROOKHAVEN ROAD, AS NEEDED TO COMPLETE THE WORK WITHIN THE WORK ZONE INCLUDING, BUT NOT LIMITED TO, SAWCUTTING, EXCAVATION, INSTALL FULL DEPTH PAVEMENT RESTORATION, AND PAVEMENT MILLING/OVERLAY AREAS. AT THE END OF EACH DAY, PROTECT ALL DROP OFFS WITH A SAFETY SLOPE. CONTRACTOR SHALL INSTALL FINAL PAVEMENT MARKINGS AND SIGNAGE.
- REMOVE ALL TEMPORARY E&S MEASURES AND TEMPORARY TRAFFIC CONTROL DEVICES

PADOT'S EXISTING ROAD PAVING SECTIONS:

BROOKHAVEN ROAD (SR 3003):
 ACCORDING TO PADOT'S 'RIMS' PAVEMENT HISTORY LOG, THE EXISTING PAVEMENT CROSS SECTION IS 10" OF CRUSHED STONE & 6.5" OF WEARING COURSE

NOTE:
 THE DEPTHS OF MATERIAL SHOWN ARE FOR DESIGN PURPOSES ONLY. ANY RISK OF UNANTICIPATED COSTS ASSOCIATED WITH DIFFERENCES BETWEEN THE LISTED DEPTHS AND THE ACTUAL DEPTHS SHALL BE ACCEPTED BY THE CONTRACTOR.

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2	03-29-2023	ISSUE FOR BID	AHR	AHR
1	03-20-2023	PADOT HOP	AHR	AHR

CEA CATANIA ENGINEERING ASSOCIATES, INC.
 520 WEST McADAM BLVD.
 WILMONT PARK, PA. 19033
 TEL. (610) 532-2884
 FAX. (610) 532-2923
 EMAIL: office10@cataniaengineering.com

HOP CONSTRUCTION PLAN-ADD ALTERNATE HOP APPLICATION # 303692
RECYCLING CENTER
NETHER PROVIDENCE TOWNSHIP

PA ONE CALL No. 20221363775

CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES
3 WORKING DAYS NOTICE FOR
CONSTRUCTION PHASE AND 10 WORKING
DAYS IN DESIGN STAGE - STOP CALL 8-1-1

Pennsylvania One Call System, Inc.
1-800-242-1776
8-1-1 (WITHIN PA.)

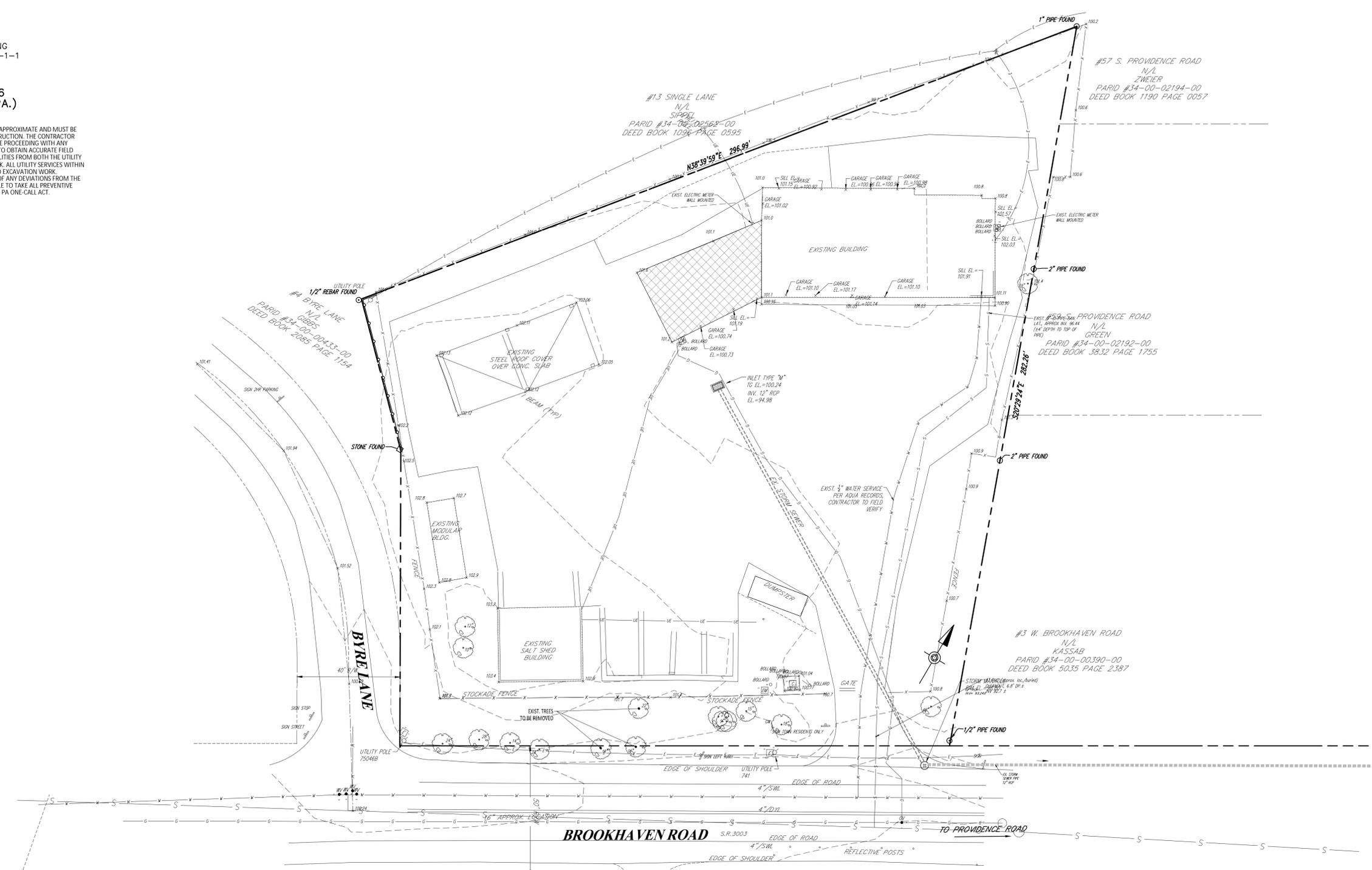
THE LOCATIONS OF ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT PA ONE-CALL AT 811 AT LEAST 3-DAYS BEFORE PROCEEDING WITH ANY EXCAVATION. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ACCURATE FIELD LOCATIONS OF ALL EXISTING UNDERGROUND AND AERIAL UTILITIES FROM BOTH THE UTILITY COMPANIES AND/OR BY TEST PITS PRIOR TO BEGINNING WORK. ALL UTILITY SERVICES WITHIN THE LIMITS OF WORK MUST ALSO BE FIELD LOCATED PRIOR TO EXCAVATION WORK. CONTRACTORS ARE TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE PLAN INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO TAKE ALL PREVENTIVE MEASURES TO PROTECT THE LINES IN ACCORDANCE WITH THE PA ONE-CALL ACT.

SOIL TYPE(S)

Me - MADE LAND SCHIST & GNEISS MATERIALS.

GENERAL NOTES:

- BOUNDARY, TOPOGRAPHIC AND PHYSICAL IMPROVEMENTS SHOWN IS/ARE FROM FIELD SURVEY BY CATANIA ENGINEERING ASSOCIATES, INC. PERFORMED ON 5/02/2022.
- CONTOURS PLOTTED FROM FIELD RUN TOPOGRAPHIC SURVEY BY CATANIA ENGINEERING ASSOCIATES, INC. DATUM: ASSUMED. SITE BENCH IS A MARKHOLE IN W. BROOKHAVEN ROAD WITH A RIM ELEVATION= 98.80.
- UNDERGROUND UTILITIES SHOWN WERE PLOTTED FROM OBSERVABLE EVIDENCE AT THE TIME OF SURVEY AND INFORMATION FROM PLANS SUPPLIED BY UTILITY COMPANIES. NO GUARANTEE IS MADE THAT UNDERGROUND UTILITIES ARE ACCURATELY OR COMPLETELY SHOWN HEREON.
- EXISTING UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES AND CANNOT BE GUARANTEED AS TO THE ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO EXCAVATION. WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTION, TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING INVERTS, MATERIALS AND SIZES. TEST PIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENT AS REQUIRED TO AVOID CONFLICTS. ANY EXISTING UTILITY SERVICE CONNECTIONS LOCATED BY THE CONTRACTOR, CAPABLE OF SERVICING THE PROPOSED USE SHALL BE REUSED AS LONG AS THEY ARE IN GOOD CONDITION AND MEET THE AUTHORITY'S STANDARDS AND SPECIFICATIONS. IF THE EXISTING UTILITY SERVICES DO NOT MEET THE ABOVE CRITERIA, THEN NEW SERVICE LINES SHALL BE INSTALLED.
- THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT, WHICH WOULD DISCLOSE ANY RIGHTS, RESERVATIONS, EASEMENTS, ETC., OF RECORD.
- ZONING INFORMATION OBTAINED FROM TOWNSHIP ZONING ORDINANCE (AS POSTED ON THE TOWNSHIP WEBSITE) AT TIME OF SURVEY. PROJECT ENGINEER IS RESPONSIBLE FOR CHECKING LATEST TOWNSHIP ORDINANCES FOR ANY & ALL UPDATES OR TOWNSHIP REVISIONS.
- THIS PROPERTY IS LOCATED WITHIN FLOOD HAZARD ZONE 'X' AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS SHOWN ON FLOOD INSURANCE RATE MAP FOR DELAWARE COUNTY, PA. MAP NO. 4204SC0094F, DATED NOVEMBER 18, 2009.
- SOILS INFORMATION PROVIDED WITH SUPPORT FROM THE NATURAL RESOURCES CONSERVATION SERVICE. SOILS ATTRIBUTE DATA IS SERVED FROM THE NRCS SOIL DATA MART.
- THE ACCURACY AND COMPLETENESS OF THIS INFORMATION HAS BEEN PROVIDED TO THE BEST ABILITY OF THE ENGINEER, HOWEVER, THE CONTRACTOR IS ADVISED TO VERIFY IN THE FIELD ALL THE FACTORS CONCERNING THE LOCATION OF ALL UTILITIES PRIOR TO BIDDING AND CONSTRUCTION. LOCATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE AND SHOULD BE VERIFIED BY THE CONTRACTOR.
- DO NOT SCALE DRAWINGS AS THEY PERTAIN TO ADJACENT AND SURROUNDING PHYSICAL CONDITIONS, BUILDINGS, STRUCTURES, ETC. THEY ARE SCHEMATIC ONLY, EXCEPT WHERE DIMENSIONS ARE SHOWN THEREON.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY FIELD OR SOIL CONDITIONS ENCOUNTERED DIFFER FROM THOSE REPRESENTED HEREON. SUCH CONDITIONS COULD RENDER THE DESIGNS HEREON INAPPROPRIATE OR INEFFECTIVE.



OWNER
 NETHER PROVIDENCE TOWNSHIP
 214 SYKES LANE
 WALLINGFORD, PA 19086
 PARID #34-00-00390-01
 DEED 12-24-1984
 AREA = 57,017 S.F. (GROSS)
 53,520 S.F. (NET)

LEGEND

	EXISTING		PROPOSED
	CONTOURS		TO BE REMOVED
	SPOT ELEVATIONS		TO BE REMOVED
	SANITARY SEWER		TO BE REMOVED
	SANITARY LATERAL		TO BE REMOVED
	STORM SEWER		TO BE REMOVED
	GAS MAIN		TO BE REMOVED
	WATER MAIN		TO BE REMOVED
	UNDERGROUND ELECTRIC		TO BE REMOVED
	TO BE REMOVED		TO BE REMOVED



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**EXISTING CONDITIONS PLAN
 RECYCLING CENTER
 NETHER PROVIDENCE TOWNSHIP**

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 Pennsylvania One Call System, Inc.
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SOIL TYPE(S)
 Me - MADE LAND SLT & GNESS
 MATERIALS
 HYDRAULIC SOIL GROUP 'C'

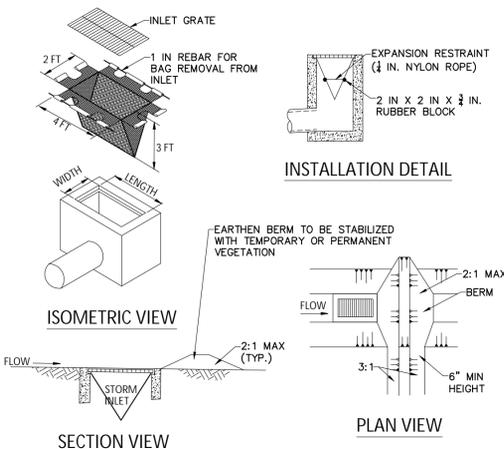
NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.
 INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP.
 BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
 ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD
 SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN
 CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN
 PERMANENTLY.

AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A
 MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS.
 FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT.
 BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY
 HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR
 CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT
 OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION.
 DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.



FILTER BAG INLET PROTECTION, TYPE II
 N.T.S.

DEMOLITION & SITE PREPARATION NOTES

- THE CONTRACTOR SHALL INCLUDE IN THEIR BID THE COST OF REMOVING ANY EXISTING SITE FEATURES NECESSARY TO ACCOMPLISH THE CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS. THE CONTRACTOR SHALL ALSO INCLUDE IN THEIR BID THE COST NECESSARY TO RESTORE ALL ITEMS THAT ARE SCHEDULED TO REMAIN AS PART OF THE FINAL SITE IMPROVEMENTS. REFER TO SITE PLANS AND PADOT HOP PLAN SETS TO DETERMINE EXCAVATION, DEMOLITION AND TO DETERMINE THE LOCATION OF THE PROPOSED SITE IMPROVEMENTS. THE OWNER RESERVES THE RIGHT TO REVIEW ALL MATERIALS DESIGNATED FOR REMOVAL AND TO RETAIN OWNERSHIP OF SUCH MATERIALS. THE OWNER'S ENVIRONMENTAL CONSULTANT SHALL BE RESPONSIBLE ALL ENVIRONMENTAL WORK AND REMEDIATION/REMOVAL.
- UNLESS SPECIFIED OTHERWISE, ALL SITE FEATURES WITHIN THE LIMITS OF DISTURBANCE ARE TO BE REMOVED/DEMOLISHED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF SIGNIFICANT DISCREPANCIES ARE DISCOVERED BETWEEN THIS PLAN AND FIELD CONDITIONS.
- CATANIA ENGINEERING AND ITS EMPLOYEES ARE NOT RESPONSIBLE FOR JOB SITE SAFETY. THE CONTRACTOR AND THEIR SUBCONTRACTORS ARE RESPONSIBLE FOR ALL DEMOLITION WORK AND TO ENSURE THAT THIS WORK IS DONE IN A SAFE MANNER IN ACCORDANCE WITH THE LATEST OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS TO ENSURE SAFETY TO THE WORKERS AND THE PUBLIC.
- PRIOR TO STARTING ANY DEMOLITION WORK, THE CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:
 - OBTAINING ALL PERMITS AND KEEPING A COPY OF ALL PERMITS ON SITE FOR REVIEW.
 - INSTALLING THE REQUIRED E&S CONTROL MEASURES PRIOR TO SITE DISTURBANCE.
 - LOCATE ALL EXISTING UTILITIES AND CONTACT PA ONE-CALL.
 - PROTECT AND MAINTAIN IN OPERATION ALL UTILITIES THAT ARE NOT INTENDED TO BE REMOVED.
 - CONTACT ALL UTILITIES INVOLVED WITH UTILITY SHUT-OFFS/ABANDONMENT VIA PA ONE-CALL OR DIRECTLY AND COORDINATE WITH THEM IN ENSURING THAT ALL APPROPRIATE SERVICES ARE PROPERLY SHUT-OFF/ABANDONED.
 - PERFORM A COMPLETE BUILDING INSPECTION BY A LICENSED ENVIRONMENTAL TESTING AGENCY OF ALL BUILDINGS/STRUCTURES TO BE DEMOLISHED TO ENSURE THAT SUCH DEMOLITION SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS. A THOROUGH/COMPLETE INSPECTION FOR CONTAMINANTS SHALL BE COMPLETED BY A LICENSED ENVIRONMENTAL TESTING AGENCY. ALL IDENTIFIED CONTAMINANTS BY THE LICENSED ENVIRONMENTAL TESTING AGENCY SHALL BE REMOVED AND DISPOSED OF BY A FEDERALLY LICENSED CONTRACTOR IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
- IF THE OWNER ELECTS TO RETAIN ANY MATERIAL, THEN THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER TO HAVE THOSE MATERIALS REMOVED OFF SITE AT NO ADDITIONAL COST.
- UNLESS SPECIFICALLY NOTED TO BE SAVED / STOCKPILED, ALL SITE FEATURES CALLED FOR REMOVAL(REM) SHALL BE REMOVED WITH THEIR FOOTINGS, ATTACHMENTS, BASE MATERIAL, ETC., TRANSPORTED FROM THE SITE TO BE DISPOSED OF IN A LAWFUL MANNER AT AN ACCEPTABLE DISPOSAL SITE AND AT NO ADDITIONAL COST TO THE OWNER.
- ALL EXISTING SITE FEATURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD. ANY FEATURES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL PERFORM ALL EARTH DISTURBANCE AND DEMOLITION ACTIVITIES IN ACCORDANCE WITH DIRECTION BY THE OWNER'S GEOTECHNICAL ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY TRAFFIC CONTROL, SECURITY FENCING, AND ENSURE THAT ANY EXISTING WALKWAYS/SIDEWALKS ARE KEPT OPEN AT ALL TIMES UNLESS AN APPROVED DETOUR PLAN PREPARED BY THE CONTRACTOR IS APPROVED BY THE MUNICIPALITY AND PADOT.
- THE CONTRACTOR IS RESPONSIBLE TO CONDUCT THE DEMOLITION AND SITE IMPROVEMENTS WITH MINIMAL DISTURBANCE TO ADJACENT ROADS. ALL TEMPORARY ROAD CLOSURES WILL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN THE NECESSARY MUNICIPALITY'S PERMISSION.
- DURING EARTHWORK OPERATIONS, THE CONTRACTOR SHALL TAKE CARE TO NOT DISTURB EXISTING MATERIALS TO REMAIN OR AREAS THAT ARE OUTSIDE/BEYOND THE LIMITS OF DISTURBANCE. THE CONTRACTOR SHALL TAKE WHATEVER MEASURES NECESSARY, AT THE CONTRACTOR'S EXPENSE, TO PREVENT ANY EXCAVATED MATERIAL FROM COLLAPSING AND FROM DAMAGING EXISTING TREES TO REMAIN ALONG THE STREAM BANK. ALL BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED AS SPECIFIED TO THE SUB-GRADE REQUIRED FOR THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK.
- IT SHALL BE THE CONTRACTOR'S OPTION, WITH CONCURRENCE OF THE OWNER, TO REUSE EXISTING GRAVEL IF IT MEETS THE REQUIREMENTS OF THE SPECIFICATIONS FOR GRAVEL BORROW.
- 'CLEAR AND GRUB VEGETATION' SHALL INCLUDE REMOVAL OF GRASS, SHRUBS, AND UNDERBRUSH, REMOVAL OF ROOTS, ROUGH GRADING, INSTALLATION OF LOAM (IF APPLICABLE), FINE GRADING, SEEDING AND TURF ESTABLISHMENT BY THE CONTRACTOR.
- THE STORAGE OF MATERIALS AND EQUIPMENT WILL BE PERMITTED AT LOCATIONS DESIGNATED BY OWNER OR OWNER'S REPRESENTATIVE. PROTECTION OF STORED MATERIALS AND EQUIPMENT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- STRIP & STORE EXISTING TOPSOIL FOR LATER REUSE WHERE APPROPRIATE, AND AS NOTED ON PLAN, WITH APPROPRIATE EROSION AND SEDIMENT CONTROLS.
- LOAM/TOP SOIL DESIGNATED FOR REUSE AS TOPSOIL FOR SEEDING/LANDSCAPED AREAS SHALL BE BLENDED WITH MASONRY SAND & COMPOST MATERIAL AS SPECIFIED TO IMPROVE/PROMOTE PLANT GROWTH.
- THE CONTRACTOR SHALL PROTECT EXISTING TREES TO REMAIN, CONTRACTOR SHALL INSTALL TREE PROTECTION BARRIER AFTER CLEARING UNDERBRUSH AND TAKE DUE CARE TO PREVENT INJURY TO TREES DURING CLEARING OPERATIONS.
- EXPLOSIVES ARE NOT PERMITTED TO BE USED ON THIS SITE WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES.
- SAFE PUBLIC ACCESS SHALL BE MAINTAINED AS REQUIRED DURING THE REMOVAL AND REPLACEMENT OF SIDEWALK.
- APPROPRIATE DUST CONTROL MEASURES MUST BE IN PLACE TO KEEP DUST AND AIRBORNE DEBRIS FROM EXCEEDING FEDERAL, STATE AND LOCAL STANDARDS.
- DEBRIS SHALL NOT BE BURIED ON THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY REMOVE AND DISPOSE OF HAZARDOUS MATERIALS OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS.
- THE FOUNDATION OF ALL EXISTING STRUCTURES TO BE DEMOLISHED MUST BE REMOVED TO AT LEAST TWO FEET BELOW EXISTING GRADE. IF THE EXISTING FOUNDATION WILL INTERFERE WITH PROPOSED UTILITIES OR FOUNDATIONS, THEN IT MUST EITHER BE REMOVED COMPLETELY FOR PROPOSED FOUNDATIONS OR REMOVED TO PROVIDE A MIN. 18" CLEARANCE FROM PROPOSED UTILITIES. EXCEPTION, THE EXISTING BUILDING AND ITS FOUNDATION SHALL BE REMOVED IN ITS ENTIRETY.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE DUST CONTROL MEASURES AS REQUIRED TO LIMIT THE AMOUNT OF AIRBORNE DUST AND DIRT FROM LEAVING THE SITE IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL STANDARDS.

- GENERAL NOTES**
- BOUNDARY, TOPOGRAPHIC AND PHYSICAL IMPROVEMENTS SHOWN IS/ARE FROM FIELD SURVEY BY CATANIA ENGINEERING ASSOCIATES, INC. PERFORMED ON 5/02/2022.
 - CONTOURS PLOTTED FROM FIELD RUN TOPOGRAPHIC SURVEY BY CATANIA ENGINEERING ASSOCIATES, INC., DATUM: ASSUMED. SITE BENCH IS A MANHOLE IN W. BROOKHAVEN ROAD WITH A RIM ELEVATION=98.85.
 - UNDERGROUND UTILITIES SHOWN WERE PLOTTED FROM OBSERVABLE EVIDENCE AT THE TIME OF SURVEY AND INFORMATION FROM PLANS SUPPLIED BY UTILITY COMPANIES. NO GUARANTEE IS MADE THAT UNDERGROUND UTILITIES ARE ACCURATELY OR COMPLETELY SHOWN HEREON.
 - THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT, WHICH WOULD DISCLOSE ANY RIGHTS, RESERVATIONS, EASEMENTS, ETC., OF RECORD.
 - ZONING INFORMATION OBTAINED FROM TOWNSHIP ZONING ORDINANCE (AS POSTED ON THE TOWNSHIP WEBSITE) AT TIME OF SURVEY. PROJECT ENGINEER IS RESPONSIBLE FOR CHECKING LATEST TOWNSHIP ORDINANCES FOR ANY & ALL UPDATES OR TOWNSHIP REVISIONS.
 - THIS PROPERTY IS LOCATED WITHIN FLOOD HAZARD ZONE XAREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS SHOWN ON FLOOD INSURANCE RATE MAP FOR DELAWARE COUNTY, PA. MAP NO. 4205C094F, DATED NOVEMBER 18, 2009.
 - SOILS INFORMATION PROVIDED WITH SUPPORT FROM THE NATURAL RESOURCES CONSERVATION SERVICE. SOILS ATTRIBUTION DATA IS SERVED FROM THE NRCS SOIL DATA MAP.

BASE BID:
 APPROXIMATE PAVEMENT/CONCRETE/BLDG. AREA TABULATION:

EXIST. FULL-DEPTH ASPHALT REMOVAL	11,515 SF
GRAVEL	955 SF
BLDG. TBR	3,000 SF
TOTAL	15,480 SF
PROP. FULL-DEPTH ASPHALT CRUSHED STONE PAD	8,862 SF
CONCRETE APRON	1,541 SF
CONCRETE LANDINGS	400 SF
BLDG. FOOTPRINT	3,298 SF
TOTAL	14,133 SF

APPROXIMATE LIMITS OF DISTURBANCE = 15,400 SF

ADD ALTERNATIVE DROP-OFF DRIVEWAY & RECYCLING PAD:

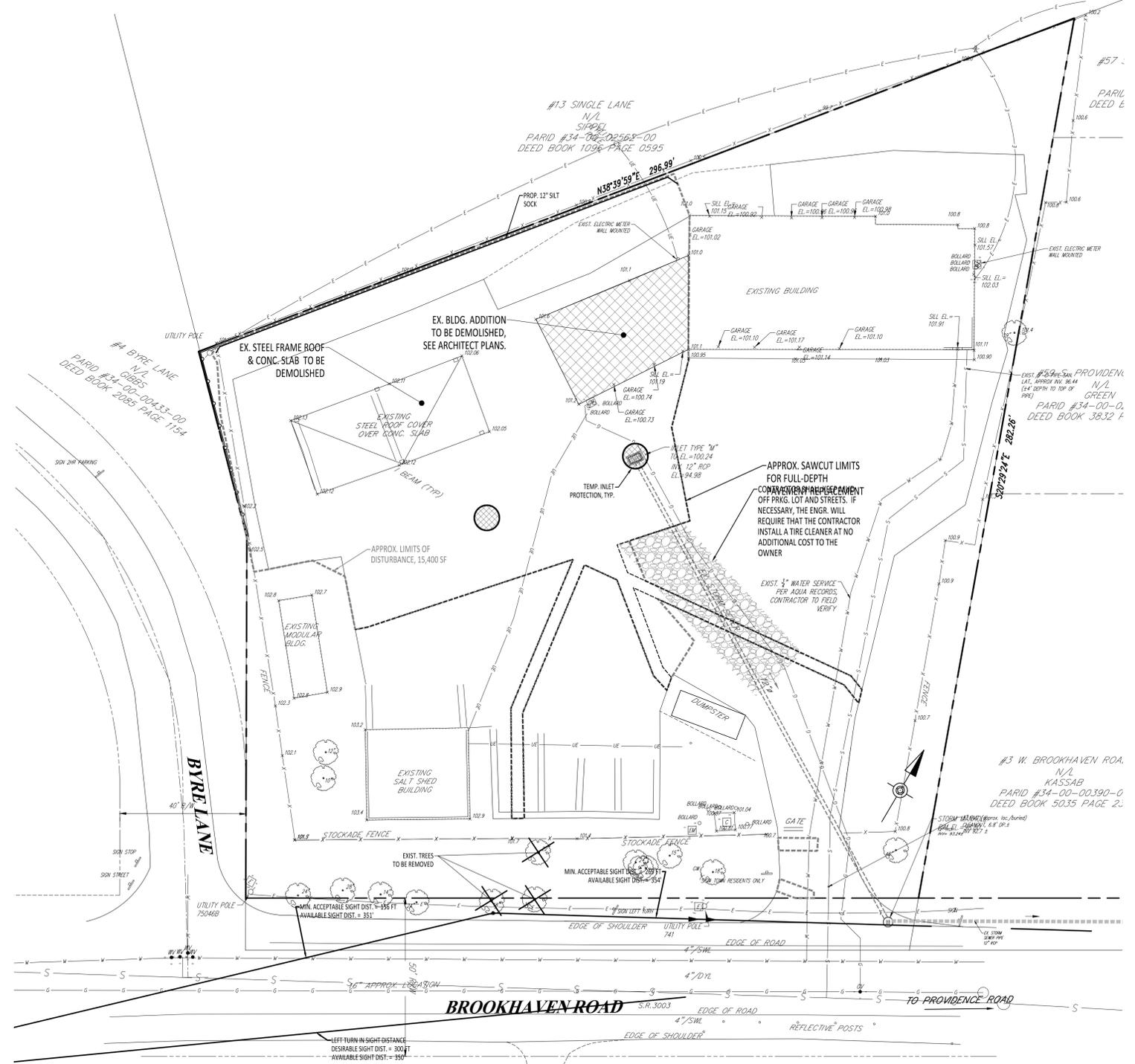
PROP. FULL-DEPTH ASPHALT	4,205 SF
CONCRETE RECYCLE PAD	1,892 SF
TOTAL	6,097 SF

TOTAL IMPERVIOUS BASED BID & ADD = 20,230 SF

TABLE A - SEEDING REQUIREMENTS

FORMULA & SPECIES	PERCENT BY WEIGHT	MINIMUM PERCENT		MAX. PERCENT WEED SEED	SEEDING RATE LB/1000 SY
		PURITY	GERMINATION		
FORMULA B: PERENNIAL RYEGRASS MIXTURE (LOLIUM PERENNE) CREEPING RED FESCUE OR CHEWINGS FESCUE KENTUCKY BLUEGRASS MIXTURE (POA PRATENSIS)	20	98	90	0.15	21.0 TOTAL 4.0 6.0 11.0
	30	98	85	0.15	
	50	98	80	0.20	
FORMULA E: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	100	98	90	0.15	10.0 TOTAL 10.0

OWNER
 NETHER PROVIDENCE TOWNSHIP
 214 SYKES LANE
 WALLINGFORD, PA 19086
 PARID #34-00-00390-01
 DEED 12-24-1984
 AREA = 57,017 S.F. (GROSS)
 53,520 S.F. (NET)



LEGEND

EXISTING	PROPOSED
--- 550 ---	--- 550 ---
x 550.0	x 550.0
SPOT ELEVATIONS	
SANITARY SEWER	
SANITARY LATERAL	
STORM SEWER	
GAS MAIN	
WATER MAIN	
UNDERGROUND ELECTRIC	
TO BE REMOVED	TBR



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CEA

CATANIA ENGINEERING ASSOCIATES, INC.
 520 WEST MACDADE BLVD.
 MILMONT PARK, PA. 19033
 TEL. (610) 532-2884
 FAX. (610) 532-2923
 EMAIL: office10@cataniaengineering.com

**SITE DEMOLITION PLAN: BASE BID
 RECYCLING CENTER
 NETHER PROVIDENCE TOWNSHIP**

TOWNSHIP OF NETHER PROVIDENCE DELAWARE COUNTY, PA

DWN. BY: J.M.D.	DATE: 05/16/22	SCALE: 1" = 20'	DRAWING NO.: 83250-1096
CHK. BY: C.J.S.			SHEET 5 OF 10 SHEETS

CALL BEFORE YOU DIG!
 PENNSYLVANIA LAW REQUIRES
 3 WORKING DAYS NOTICE FOR
 CONSTRUCTION PHASE AND 10 WORKING
 DAYS IN DESIGN STAGE - STOP CALL 8-1-1

Pennsylvania One Call System, Inc.
 **1-800-242-1776**
8-1-1 (WITHIN PA.)

SOIL TYPE(S)

Mr - MADE LAND SCHIST & GNESS MATERIALS.

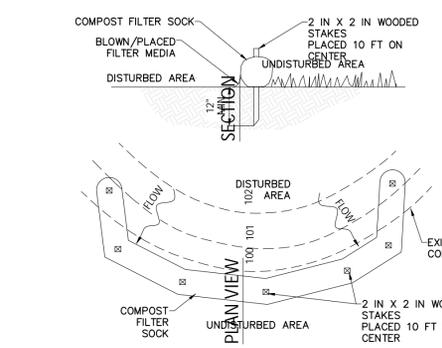
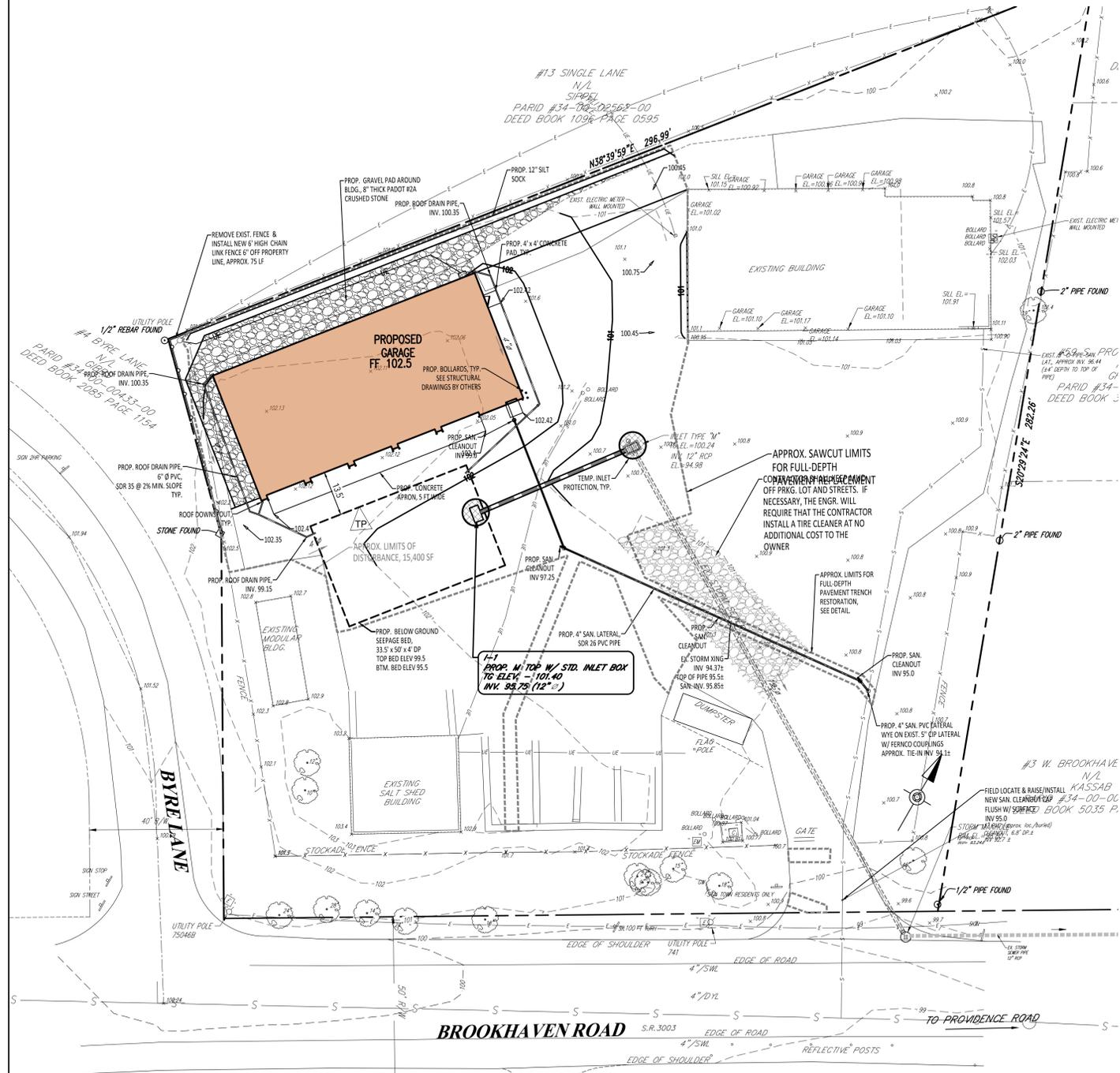
THE LOCATIONS OF ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT PA ONE-CALL AT 811 AT LEAST 3-DAYS BEFORE PROCEEDING WITH ANY EXCAVATION. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ACCURATE FIELD LOCATIONS OF ALL EXISTING UNDERGROUND AND AERIAL UTILITIES FROM BOTH THE UTILITY COMPANIES AND/OR BY TEST PITS PRIOR TO BEGINNING WORK. ALL UTILITY SERVICES WITHIN THE LIMITS OF WORK MUST ALSO BE FIELD LOCATED PRIOR TO EXCAVATION WORK. CONTRACTORS ARE TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE PLAN INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO TAKE ALL PREVENTIVE MEASURES TO PROTECT THE LINES IN ACCORDANCE WITH THE PA ONE-CALL ACT.

GENERAL NOTES

- BOUNDARY, TOPOGRAPHIC AND PHYSICAL IMPROVEMENTS SHOWN IS/ARE FROM FIELD SURVEY BY CATANIA ENGINEERING ASSOCIATES, INC. PERFORMED ON 5/02/2022.
- CONTOURS PLOTTED FROM FIELD RUN TOPOGRAPHIC SURVEY BY CATANIA ENGINEERING ASSOCIATES, INC., DATUM ASSUMED. SITE BENCH IS A MANHOLE IN W. BROOKHAVEN ROAD WITH A RIM ELEVATION= 98.80.
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- SOILS INFORMATION PROVIDED WITH SUPPORT FROM THE NATURAL RESOURCES CONSERVATION SERVICE. SOILS ATTRIBUTE DATA IS SERVED FROM THE NRCS SOIL DATA MART.

GENERAL GRADING AND UTILITY NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST. PROCEEDING WITH CONSTRUCTION WITHOUT NOTIFICATION IS DONE SO AT THE CONTRACTOR'S OWN RISK.
- CONTRACTOR IS RESPONSIBLE TO ENSURE THE FOLLOWING MINIMUM GRADING STANDARDS TO ENSURE PROPER DRAINAGE AND PREVENTION OF PONDING. A MINIMUM 0.75% SLOPE AGAINST ALL ISLANDS, GUTTERS, AND CURBS RECEIVING DRAINAGE SHALL BE PROVIDED. A MINIMUM OF 1.0% SLOPE ON ALL CONCRETE AND 1.5% SLOPE ON ALL ASPHALT AND 2% MINIMUM ON ALL GRASS/PERVIOUS SURFACES.
- THE TOPS OF EXISTING MANHOLE FRAME/COVERS, INLET GRATES, UTILITY VALVES, AND SANITARY CLEANOUTS MUST BE ADJUSTED, AS NECESSARY, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL APPLICABLE STANDARDS, REQUIREMENTS, LAWS AND CODES. ALL EXISTING/PROPOSED WALKING SURFACE HARDWARE, SUCH AS BUT NOT LIMITED TO, JUNCTION BOX COVERS, CLEAN-OUT COVERS, SEWER GRATES, UTILITY COVERS, AND SIMILAR ELEMENTS THAT PEDESTRIANS CAN REASONABLY BE EXPECTED TO WALK ON AND WITHIN FORESEEABLE PEDESTRIAN PATHS SHALL BE MAINTAINED LEVEL/FLUSH WITH THE SURROUNDING SURFACES.
- DURING THE INSTALLATION OF SANITARY SEWER, STORM SEWER, AND ALL UTILITIES, THE CONTRACTOR MUST MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD OF CONSTRUCTION TO IDENTIFY THE AS-INSTALLED LOCATIONS OF ALL UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR MUST CAREFULLY NOTE ANY INSTALLATIONS THAT DEVIATE FROM THE INFORMATION CONTAINED IN THE UTILITY PLAN. THIS RECORD MUST BE KEPT ON A CLEAN COPY OF THESE PLANS, WHICH CONTRACTOR MUST PROMPTLY PROVIDE TO THE OWNER AT THE COMPLETION OF WORK.
- SEWERS CONVEYING SANITARY FLOW, CSO FLOW OR INDUSTRIAL FLOW MUST BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. IF SUCH HORIZONTAL SEPARATION IS NOT POSSIBLE, THEN THE PIPES MUST BE IN SEPARATE TRENCHES WITH THE TOP OF THE SEWER PIPE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN IN WHERE APPROPRIATE SEPARATION FROM A WATER MAIN IS NOT POSSIBLE, THE SEWER MUST BE ENCASED IN CONCRETE FOR A DISTANCE OF AT LEAST 10 FEET ON EITHER SIDE OF THE CROSSING. IN ADDITION, ONE FULL LENGTH OF SEWER PIPE SHOULD BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE WATER LINE AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER MUST BE PROVIDED.
- CATANIA ENGINEERING AND THEIR CLIENT IS NEITHER LIABLE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER, SHALL HAVE NO LIABILITY FOR ANY HAZARDOUS MATERIALS, HAZARDOUS SUBSTANCES, OR POLLUTANTS ON, ABOUT OR UNDER THE PROPERTY.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION AND SHALL BEAR ALL COSTS ASSOCIATED WITH SAME. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY MUST RESTORE SUCH CONSTRUCTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE CONDITIONS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION, AND IN CONFORMANCE WITH APPLICABLE CODES, LAWS, AND REGULATIONS AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND TO NOTIFY THE OWNER AND THE CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION.
- THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY. CATANIA ENGINEERING SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND MUST BE NAMED AN ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE AS DESCRIBED ABOVE FOR JOB SITE SAFETY. NEITHER THE PROFESSIONAL ACTIVITIES NOR THE PRESENCE OF CATANIA ENGINEERING AND/OR ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, SHAREHOLDERS, MEMBERS, PRINCIPALS, AND EMPLOYEES AT A CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS AND METHODS/TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, OVERSEEING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND COMPLIANCE ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES WITH JURISDICTION OVER THE PROJECT AND/OR PROPERTY. THE ENGINEER AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES.
- ALL CONCRETE FOR NOTED FOR SIDEWALK, WALKWAYS, PAVEMENT, OR UTILITY PIPE ENCASEMENT SHALL BE AIR-ENTRAINED CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS NOTED ON THE PLANS, DETAILS AND / OR GEOTECHNICAL REPORT IN ACCORDANCE WITH PADOT COMPRESSIVE CLASS SPECIFICATION.
- UNLESS OTHERWISE INDICATED WITHIN THE APPROVED PLANS, ALL DISTURBED AREAS THAT WILL BE LANDSCAPED ARE TO RECEIVE A MINIMUM OF SIX INCHES OF SCREENED TOPSOIL, SEED, MULCH, AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
- ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- EXISTING PAVEMENT SHALL BE SAW CUT IN STRAIGHT LINES TO THE FULL DEPTH OF THE EXISTING PAVEMENT. AS APPLICABLE, THESE PLANS DEPICT THE MINIMUM AREAS OF MILL/OVERLAY REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE OWNER ON ADDITIONAL MILL/OVERLAY REQUIREMENTS.
- EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL BE PROPERLY ABANDONED, REMOVED, OR RELOCATED, AS NECESSARY. ALL COSTS SHALL BE INCLUDED IN BASE BID.
- FOR MATERIALS AND/OR SPECIFICATIONS NOT SPECIFICALLY REFERENCED ON THESE PLANS OR STATE AND LOCAL REQUIREMENTS THE PROJECT SHALL BE CONSTRUCTED IN CONFORMANCE WITH PENNDOT PUB 408 LATEST REVISION.



NOTES:

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

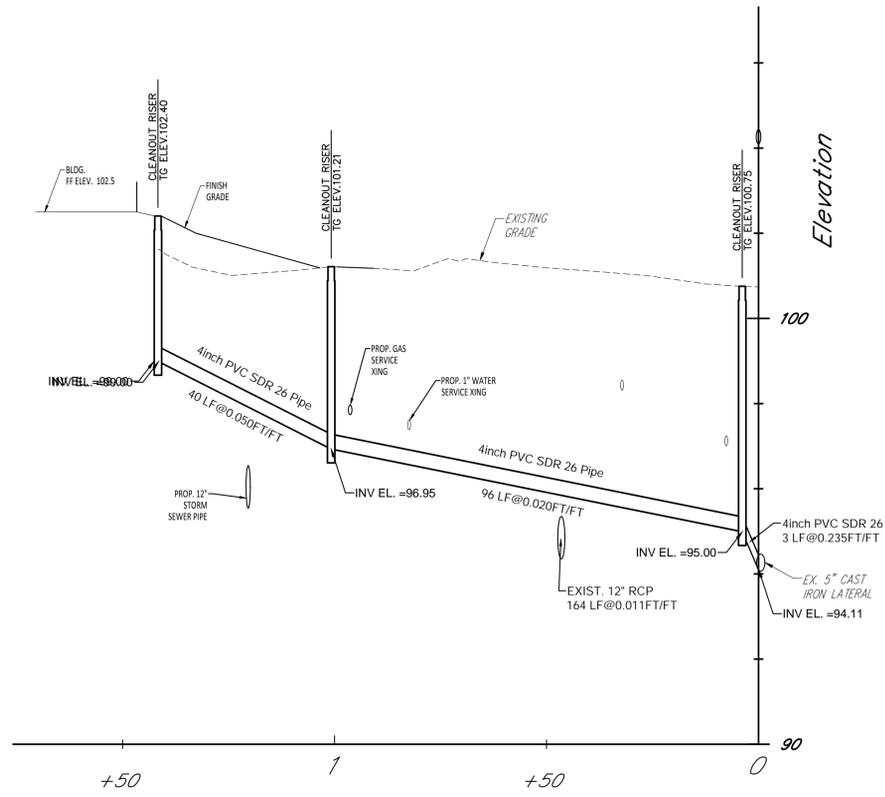
ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND PROPERLY DISPOSED.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF DAMAGE.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS. PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

COMPOST FILTER SOCK
 N.T.S.



Profile:
 PV - SAN LAT 4 INCH
 HOR. SCALE 1"=20'
 VERT. SCALE: 1"=2'

LEGEND

EXISTING	CONTOURS	PROPOSED
SPOT ELEVATIONS	SANITARY SEWER	SANITARY LATERAL
STORM SEWER	GAS MAIN	WATER MAIN
UNDERGROUND ELECTRIC		



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NO.	DATE	REVISION	DWN. BY	CHK. BY
3	04-25-2023	PADOT COMM.	AHR	AHR
2	03-29-2023	ISSUE FOR BID	AHR	AHR
1	02-27-2023	PADOT HOP	AHR	AHR



GRADING PLAN
RECYCLING CENTER
NETHER PROVIDENCE TOWNSHIP

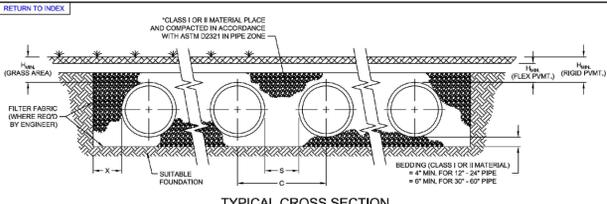
CALL BEFORE YOU DIG!
 PENNSYLVANIA LAW REQUIRES
 3 WORKING DAYS NOTICE FOR
 CONSTRUCTION PHASE AND 10 WORKING
 DAYS IN DESIGN STAGE - STOP CALL 8-1-1

Pennsylvania One Call System, Inc.
 1-800-242-1776
 8-1-1 (WITHIN PA.)

AQUA WATER SERVICE NOTES:

1. THE SITE CONTRACTOR AND PLUMBING CONTRACTOR IS RESPONSIBLE TO BE FULLY KNOWLEDGEABLE WITH ALL AQUA STANDARDS AND REQUIREMENTS.
2. AQUA WILL MAKE ALL CONNECTIONS TO ITS MAIN AND FURNISH, INSTALL THE SERVICE LINE FROM THE WATER MAIN TO THE CURB STOP AND METER BOX.
3. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING, PREPARING & SUBMITTING FORMS TO AQUA FOR TEMPORARY AND PERMANENT WATER SERVICES.
4. THE SITE CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL THE SERVICE LINE FROM THE CURB BOX TO WITHIN 5 FEET OF THE BUILDING.
5. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING THE BUILDING LINES TO THE UNDERGROUND SERVICE LINES
6. DOMESTIC WATER SERVICE LINE SHALL BE 1" Ø K COPPER AND INSTALLED PER AQUA STANDARDS. K COPPER FITTINGS SHALL BE COMPRESSION OR FLARED FOR UNDERGROUND CONNECTIONS, WHILE THREAD OR SWEAT JOINTS SHALL BE USED IN PITS. FIRE LINES SHALL BE 4 INCH DUCTILE IRON PIPE AND INSTALLED PER AQUA STANDARDS. DUCTILE IRON PIPE 3" OR LARGER SHALL HAVE PUSH ON WATER-TIGHT JOINTS. WATER LINES SHALL HAVE A MINIMUM 42" OF COVER.
7. AQUA REQUIRES A PRESSURE REDUCING VALVE WHERE THE COMPANY'S SYSTEM PRESSURE EXCEEDS 81 PSI ON ALL DOMESTIC SERVICES AND 150 PSI ON FIRES SERVICES AND AT THE DISCRETION OF AQUA.
8. AQUA RETAINS THE RIGHT TO REQUIRE THE CUSTOMER TO INSTALL AND MAINTAIN A BACKFLOW PREVENTION DEVICE.
9. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A FIRE SPRINKLER DESIGNER COORDINATING WITH AQUA FOR SIZING FOR FIRE LINE AT THE START OF CONSTRUCTION.

THE LOCATIONS OF ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT PA ONE-CALL AT 811 AT LEAST 3-DAYS BEFORE PROCEEDING WITH ANY EXCAVATION. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ACCURATE FIELD LOCATIONS OF ALL EXISTING UNDERGROUND AND AERIAL UTILITIES FROM BOTH THE UTILITY COMPANIES AND/OR BY TEST PITS PRIOR TO BEGINNING WORK. ALL UTILITY SERVICES WITHIN THE LIMITS OF WORK MUST ALSO BE FIELD LOCATED PRIOR TO EXCAVATION WORK. CONTRACTORS ARE TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE PLAN INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO TAKE ALL PREVENTIVE MEASURES TO PROTECT THE LINES IN ACCORDANCE WITH THE PA ONE-CALL ACT.



Notes:

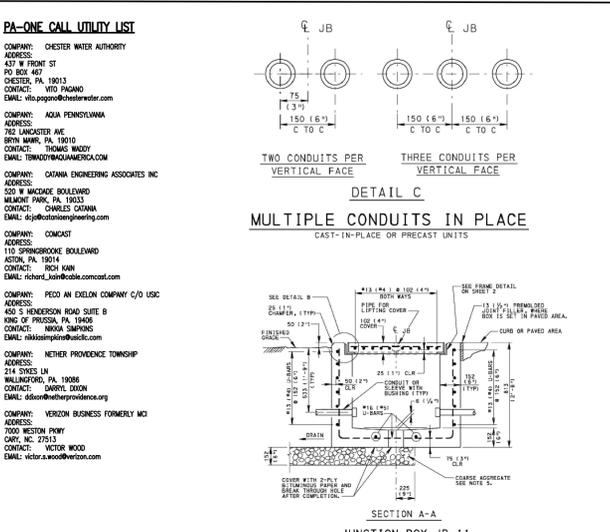
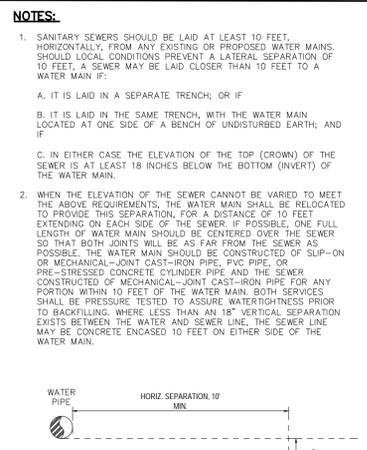
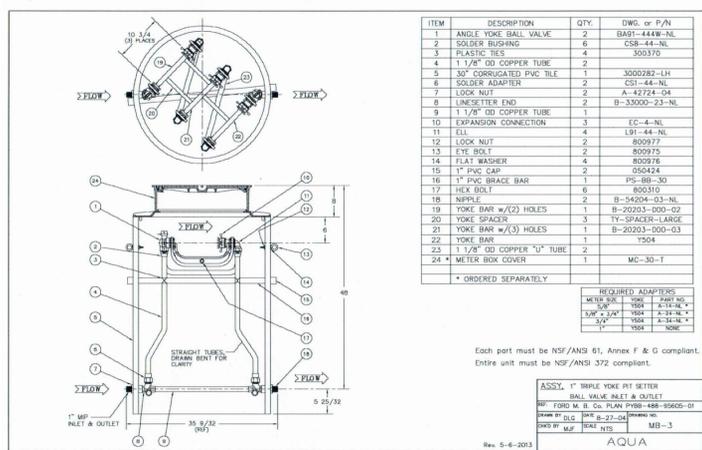
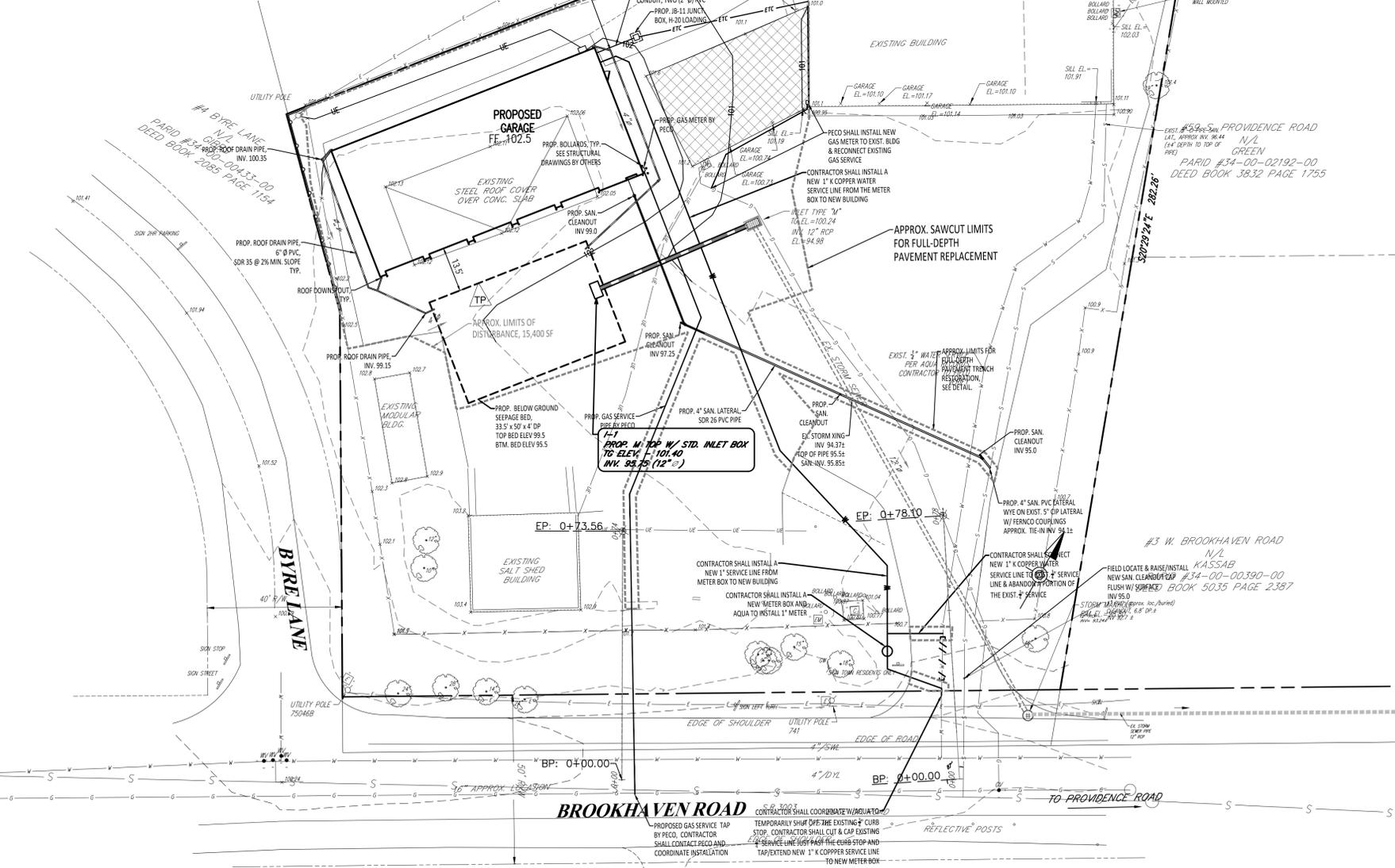
1. The drawing and table is intended to identify standard dimensioning used for Lane corrugated HDPE pipe construction and detention systems.
2. Retention and detention systems shall be installed in a manner consistent with the standard practice used for corrugated HDPE pipe installations, ASTM D2321, and the manufacturer's published installation guidelines. All references to Class I or Class II material are per the latest edition of ASTM D2321.
3. It should be noted that proper backfill placement and compaction in the haunch regions of fittings are also critical to proper pipe segment and joint performance. Additional criteria may be needed to ensure same.
4. Typical side wall dimensions shown in the table are suggested minimums to ensure sufficient clearance for the proper placement and compaction of backfill materials and apply only for stable trench walls. The dimensions shall be increased consistent with standard installation practices when unstable conditions are encountered.
5. Minimum cover heights shown are more conservative than that used for straight pipe segments and are applicable to system fittings. A buoyancy analysis may indicate the need for additional cover when the ground is highly saturated water elevation becomes a factor.
6. Maximum cover heights are limited to 8 feet above the top of fittings for standard installations. Consult a Lane representative when deeper fit heights are anticipated.

NOMINAL DIAMETER	NOMINAL O.D.	TYPICAL SPACING "B"	TYPICAL SPACING "C"	TYPICAL SIDE WALL "X"	H _{min} (NON-TRAFFIC)	H _{min} (TRAFFIC)
12"	14.3"	8.00"	23.00"	0"	12"	12"
15"	17.5"	13.50"	31.00"	0"	12"	12"
18"	21.5"	14.00"	35.50"	0"	12"	12"
24"	28.0"	18.25"	47.25"	10"	12"	12"
30"	34.0"	21.50"	56.00"	10"	12"	12"
36"	41.0"	23.00"	64.00"	10"	12"	12"
42"	47.0"	27.25"	74.75"	10"	12"	24"
48"	54.0"	28.25"	74.75"	10"	12"	24"
60"	68.0"	23.25"	90.00"	10"	12"	24"

CLASS I BACKFILL REQUIRED AROUND ALL 60" DIAMETER FITTINGS.

File Name: XX LANE ENTERPRISES, INC.
 Page Number: 1 OF 1
 Date Created: 8/5/14
 Drawn By: JDS

TYPICAL RETENTION/DETENTION CROSS SECTION DETAIL



UTILITY NOTES:

- GAS:
- GAS SHOWN FOR UTILITY COORDINATION PURPOSES ONLY. SEE MEP PLANS BY OTHERS FOR GAS INSTALLATION REQUIREMENTS.
 - THE GENERAL CONTRACTOR IS REQUIRED TO COORDINATE GAS SERVICE LOCATION WITH UTILITY COMPANY AND PROVIDE A CLEAR PATH FOR PECO'S TRENCH AS NEEDED FOR PECO TO MAKE INSTALLATION. THE GENERAL CONTRACTOR IS ALSO RESPONSIBLE TO INCLUDE ANY NECESSARY WORK TO RELOCATE SITE TO ITS ORIGINAL CONDITION AFTER PECO
 - PRIOR TO ANY EARTHWORK/GRADING OVER EXISTING ON-SITE GAS LINE, THE GENERAL CONSTRUCTION CONTRACTOR SHALL INCLUDE COORDINATION WITH PECO, TO ENSURE THAT PECO RELOCATES/LOWERS EXISTING GAS LINE AND PROVIDES/INSTALLS GAS SERVICE AND GAS METERS AS SHOWN.
 - THE GENERAL CONTRACTOR SHALL PROVIDE PECO AT LEAST 3-4 WEEKS OF ADVANCED NOTICE TO SCHEDULE THE EXISTING METER RELOCATION AND AT LEAST 8-10 WEEKS LEAD TIME FOR THE NEW METER TO THE NEW BUILDING. PECO CONTACT PERSON IS JOHN FUSCO AT 610-490-6858.
 - THE GENERAL/SITE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PAVEMENT TRENCH RESTORATION ON-SITE STREET AND ANY LANDSCAPE RESTORATION WORK. PECO GAS IS ONLY RESPONSIBLE FOR PERMANENT STREET RESTORATION AND OBTAINING PADOT PERMIT FOR TRENCH OPENING IN THE STATE'S ROAD.
 - GAS SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM 30 INCH COVER. A MINIMUM OF 1 FOOT OF VERTICAL CLEARANCE/SEPARATION MUST BE MAINTAINED WHEREVER GAS CROSSES ANY OTHER UTILITY LINE.
 - PIPE AND UTILITY TRENCH SHALL BE BACKFILLED WITH A CRUSHED STONE MATERIAL SUCH AS PADOT #2A OR APPROVED SUBSTITUTE FOR ITS ENTIRE DEPTH.
- WATER:
- THE CONSTRUCTION CONTRACTOR SHALL CONTACT AQUA, JEFF REDDING, TO TEMPORARILY TURN OFF WATER SERVICE AT THE EXISTING CURB STOP.
 - THE SITE CONSTRUCTION CONTRACT SHALL INCLUDE COORDINATION WITH AQUA TO ENSURE THAT AQUA PROVIDES/INSTALLS THE METER
 - THE SITE CONSTRUCTION CONTRACT SHALL INCLUDE INSTALLATION OF METER BOX AND DOMESTIC/FIRE WATER LINES TO WITHIN 5 FEET FROM FACE OF BUILDING.
 - THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING THE WATER SERVICE/FIRE LINES FROM THE CLEAN-OUT TO THE BUILDING
 - PIPE AND UTILITY TRENCH SHALL BE BACKFILLED WITH A CRUSHED STONE MATERIAL SUCH AS PADOT #2A OR APPROVED SUBSTITUTE FOR ITS ENTIRE DEPTH.

SANITARY LATERAL:

- THE SITE CONSTRUCTION CONTRACT SHALL PROVIDE/INSTALL THE SANITARY SEWER LATERAL PIPING AND CLEANOUTS TO WITHIN 5 FT. OF THE BUILDING.
- PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE SITE CONTRACTOR. THE PLUMBING CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR CONNECTING THE SANITARY LINE FROM THE BUILDING TO THE CLEAN-OUT OUTSIDE THE BUILDING. SANITARY LATERAL PIPE SHALL BE SDR 26 PVC PIPE WITH WATER-TIGHT PUSH-ON JOINTS.

UNDERGROUND ROOF DRAIN PIPE:

- SITE CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL ALL ROOF DRAIN PIPE UP TO FACE OF BUILDING AND TEMPORARY CAP WITH PLUG. ONLY ROOF DRAIN PIPE DESIGNATED TO GO THRU THE BUILDING WALL MAY BE INSTALLED 5 FEET FROM THE FACE OF BUILDING WITH A CLEAN-OUT AND WYE.
- PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE SITE CONTRACTOR.
- THE PLUMBING CONTRACTOR SHALL TEMPORARILY PLUG THE WYE WITH A CAP TO ALLOW THE TIE-IN CONNECTION BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING THE ROOF DRAIN PIPE FROM THE BUILDING TO THE CLEAN-OUT OUTSIDE OF THE BUILDING.

ELECTRIC:

- ELECTRIC SHOWN FOR UTILITY COORDINATION PURPOSES ONLY. SEE MEP PLANS BY OTHERS FOR ELECTRICAL INSTALLATION REQUIREMENTS.
- CONDUIT PIPE/WIRE AND UTILITY TRENCH SHALL BE BACKFILLED WITH A CRUSHED STONE MATERIAL SUCH AS PADOT #2A OR APPROVED SUBSTITUTE FOR ITS ENTIRE DEPTH.

COMMUNICATIONS:

- COMMUNICATIONS CONDUIT SHOWN FOR UTILITY COORDINATION PURPOSES ONLY. SEE MEP PLANS BY OTHERS FOR INSTALLATION REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE WITH UTILITY AND MEP DESIGNER TO OBTAIN NECESSARY PERMITS AND ESTABLISH SOURCE LOCATION. THE CONTRACTOR SHALL INSTALL THE CONDUIT PIPE SIZE AND QUANTITY AS SHOWN ON THE ARCHITECTS AND MEP PLANS BY OTHERS. SEE MEP PLANS AND ARCHITECT PLANS FOR WIRE SIZING, QUANTITY, TYPE, AND GAUGE.
- THE JUNCTION BOX AND CONDUIT INSTALLATION SHALL MEET PADOT PUB 408 AND RC 82 STANDARDS.
- PROPERLY GROUND ANY EXPOSED METAL PARTS OF THE JUNCTION BOX AND PROVIDE A GROUND PROOF OF DRAIN.

SANITARY SEWER NOTES:

1. ALL SANITARY SEWER IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE "DOMESTIC WASTEWATER FACILITIES MANUAL PER PADEP. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE OF APPLICABLE STANDARDS AND SPECIFICATIONS AS WELL AS THE REQUIRED METHODS OF CONSTRUCTION. ALL DEVIATIONS FROM THE PLANS MUST BE APPROVED PRIOR TO CONSTRUCTION.
2. A MINIMUM OF 4' OF COVER IS REQUIRED OVER ALL SANITARY SEWER LINES. THE SEWER MAIN SHALL BE CONSTRUCTED TO THE LINE AND GRADE SHOWN ON THE PLANS.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL FIELD TESTING AND "RECORD DRAWINGS" PER THE MUNICIPAL AND/OR AUTHORITY REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN FIELD RECORDS OF THE LOCATION AND DEPTH OF ALL SANITARY SEWER LATERAL LOCATIONS AND SHALL PROVIDE THIS INFORMATION TO THE DESIGN ENGINEER FOR PREPARATION OF AS-BUILT DRAWINGS.
4. A MINIMUM VERTICAL SEPARATION OF 18" SHALL BE MAINTAINED BETWEEN ALL WATER AND SEWER CROSSINGS. IF THIS CLEARANCE CANNOT BE MAINTAINED, A CONCRETE ENCASEMENT SHALL BE PROVIDED.
5. 95% STANDARD PROCTOR FILL COMPACTION IS REQUIRED FOR ALL SANITARY SEWER FACILITIES LOCATED IN FILL MATERIAL. TESTING MUST BE IN ACCORDANCE WITH THE APPROPRIATE AASHTO AND ASTM STANDARDS.
6. ALL SANITARY SEWER MANHOLES WITHIN THE PUBLIC RIGHT-OF-WAY SHALL HAVE THE MANHOLE CONE SECTION ROTATED TO MINIMIZE IMPACTS WITHIN THE VEHICLE WHEEL PATHS.
7. ALL CLEANOUTS & SANITARY MANHOLES LOCATED WITHIN PAVED AREAS SHALL BE INSTALLED WITH TRAFFIC BEARING TOPS, TRAFFIC RATED FRAMES AND COVERS.
8. ALL PROPOSED SANITARY SEWERS WILL BE OFFERED FOR DEDICATION TO THE MUNICIPALITY AND/OR APPROPRIATE AUTHORITY.
9. A MINIMUM OF 0.1 FEET OF FALL SHALL BE PROVIDED THROUGH ALL SANITARY SEWER MANHOLES.
10. ALL SANITARY SEWER LATERAL AND MAINS AND APPURTENANCES SHALL BE TESTED FOR DEFLECTION AND JOINT LEAKAGE IN ACCORDANCE WITH PADEP REQUIREMENTS.

LEGEND



NO.	DATE	REVISION	DWN. BY	CHK. BY
3	04-25-2023	PADOT COMM.	AHR	AHR
2	03-29-2022	ISSUE FOR BID	AHR	AHR
1	02-27-2023	PADOT HOP	AHR	AHR

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UTILITY PLAN
 RECYCLING CENTER
 NETHER PROVIDENCE TOWNSHIP

TOWNSHIP OF NETHER PROVIDENCE DELAWARE COUNTY, PA

DWN. BY: A.H.R. DSC. BY: C.J.C. FIELD BOOK/PAGE: SCALE: 1" = 20' DATE: 11/15/22 DRAWING NO.: 83250-109G SHEET: 7 OF 10 SHEETS

TOPSOIL & SEEDING NOTES:

- PLACE ALL SEEDING, SOIL SUPPLEMENTS AND MULCHING ITEMS IN ACCORDANCE WITH THE REQUIREMENTS OF Pa.D.O.T PUBLICATION 408 DATED 2011, SEE LANDSCAPE PLAN FOR SEED FORMULA
- AS SOON AS SLOPES, CHANNELS, DITCHES, AND OTHER DISTURBED AREAS REACH FINAL GRADE. THEY MUST BE STABILIZED IMMEDIATELY. IN ALL OTHER WATERSHED OTHER THAN A 'SPECIAL PROTECTED WATERSHED', CESSATION OF ACTIVITY FOR AT LEAST 4 DAYS REQUIRES TEMPORARY STABILIZATION. AREAS THAT WILL BE SUBJECT TO EARTHMOVING WITHIN 12 MONTHS MAY BE STABILIZED WITH TEMPORARY SEED MIXTURES. PREDOMINANTLY ANNUAL GRASSES. ALL OTHERS SHOULD BE STABILIZED WITH PERMANENT SEED MIXTURES -- PREDOMINANTLY PERENNIAL GRASSES. WHEN FINAL GRADE IS ACHIEVED DURING NON-GERMINATING MONTHS, THE AREA SHOULD BE MULCHED UNTIL THE BEGINNING OF THE NEXT PLANTING SEASON.
- HOWEVER, THE AREA WILL NOT BE CONSIDERED STABILIZED UNTIL A MINIMUM UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED. CRITICAL AREAS - ERODIBLE SOILS, WITHIN 50 FEET OF A SURFACE WATER, ETC. SHOULD BE BLANKETED.
- TEMPORARY EROSION CONTROL BMP'S THAT WERE INSTALLED FOR THE EARTHMOVING PHASE OF THE PROJECT MUST REMAIN IN PLACE AND BE MAINTAINED IN WORKING ORDER UNTIL PERMANENT STABILIZATION IS ACHIEVED. NOTE: AREAS THAT DO NOT RECEIVE SUFFICIENT SUNLIGHT TO SUPPORT VEGETATION (E.G. UNDER BRIDGE DECKS) SHOULD BE STABILIZED BY SOME MEANS OTHER THAN VEGETATION.
- AS DISTURBED AREAS WITHIN A PROJECT APPROACH FINAL GRADE, THE CONTRACTOR SHOULD MAKE PREPARATIONS FOR SEEDING AND MULCHING TO BEGIN (I.E. ANTICIPATE THE COMPLETION DATE AND SCHEDULE THE SEEDER). IN NO CASE SHOULD AN AREA EXCEEDING 15,000 SQUARE FEET, WHICH IS TO BE STABILIZED BY VEGETATION, REACH FINAL GRADE WITHOUT BEING SEEDED AND MULCHED. WAITING UNTIL EARTHMOVING IS COMPLETED BEFORE MAKING PREPARATIONS FOR SEEDING AND MULCHING IS NOT ACCEPTABLE.
- SURFACE PREPARATION PRIOR TEMPORARY AND PERMANENT VEGETATIVE SURFACE STABILIZATION.
- THE FOLLOWING ACTIVITIES SHALL BE UNDERTAKEN TO ACHIEVE STABILIZATION OF ALL EXPOSED AND DISTURBED SOIL AREAS AS REQUIRED OR DIRECTED.
 - TILLING - UPON SUSPENSION OF GRADING ACTIVITIES IN DISTURBED AREAS, SURFACE SOIL SHALL BE TILLED AND LOOSENEED. TILLING MAY BE OMITTED IF SOIL IS SUFFICIENTLY LOOSE TO PERMIT SEEDING ACTIVITIES.
 - LIME APPLICATION - GROUND LIMESTONE SHALL BE APPLIED TO THE LOOSENEED SOIL AT A UNIFORM RATE WITH AGRICULTURAL GRADE LIMESTONE PER THE E&S PLAN.
 - FERTILIZER APPLICATION - FERTILIZER SHALL BE APPLIED TO THE LOOSENEED SOIL AT A UNIFORM RATE PER THE E&S PLAN

TEMPORARY STABILIZATION WITH SEEDING

- TEMPORARY SEED MIXTURE SHALL BE APPLIED TO THE PREPARED SOIL SURFACE BY BROADCAST SPREADERS OR HYDRAULIC APPLICATION ACCORDING TO THE RATES OF APPLICATION SHOWN ON THE STANDARD E&S WORKSHEET #21. AFTER SEEDING, SEED SHALL BE COVERED BY MEANS OF LIGHT RAKING TO A DEPTH OF ONE QUARTER INCH OF SOIL.
- STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. A TRACTOR-DRAWN THE HAY INTO THE SOIL - ABOUT 3 INCHES ON SLOPES NO STEEPER THAN 3H:1V. THE MACHINERY SHOULD ? CRIMP?? IMPLEMENT MAY BE USED TO BE OPERATED ON THE CONTOUR. (NOTE: CRIMPING OF HAY OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.) SYNTHETIC BINDERS OR CHEMICAL BINDERS MAY BE USED AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH PROVIDED SUFFICIENT DOCUMENTATION IS PROVIDED TO SHOW THEY ARE NON-TOXIC TO NATIVE PLANT AND ANIMAL SPECIES. MULCH ON SLOPES OF 8% OR STEEPER SHOULD BE HELD IN PLACE WITH NETTING. LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETS MAY BE STAPLED OVER THE MULCH ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

TEMPORARY STABILIZATION WITH MULCH DURING NON-GERMINATION PERIODS

DURING NON-GERMINATION PERIODS, MULCH MUST BE APPLIED TO DISTURBED AREAS. THE NON-GERMINATION PERIOD IS GENERALLY THE PERIOD FROM OCTOBER 15 TO MARCH 15. AREAS MULCHED DURING NON-GERMINATION PERIODS MUST BE LIMED, FERTILIZED, SEEDED AND MULCHED IMMEDIATELY.

PERMANENT VEGETATIVE SURFACE STABILIZATION

- BEFORE THE SEEDING BEGINS, TOPSOIL SHOULD BE APPLIED AND ANY REQUIRED SOIL AMENDMENTS WORKED INTO THE SOIL TO A DEPTH OF 4 TO 6 INCHES. TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION. WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION, COMPACTED SOILS SHOULD BE SCARIFIED 6 TO 12 INCHES ALONG CONTOUR WHEREVER POSSIBLE PRIOR TO SEEDING
- PERMANENT SEEDING - SEED MIXTURE SHALL BE APPLIED TO THE PREPARED SOIL SURFACE BY BROADCAST SPREADERS OR HYDRAULIC APPLICATION ACCORDING TO THE RATES OF APPLICATION SHOWN ON THE STANDARD E&S WORKSHEET #21. AFTER SEEDING, SEED SHALL BE COVERED BY MEANS OF LIGHT RAKING TO A DEPTH OF ONE QUARTER INCH OF TOPSOIL.
- STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. A TRACTOR-DRAWN THE HAY INTO THE SOIL - ABOUT 3 INCHES ON SLOPES NO STEEPER THAN 3H:1V. THE MACHINERY SHOULD ? CRIMP?? IMPLEMENT MAY BE USED TO BE OPERATED ON THE CONTOUR. (NOTE: CRIMPING OF HAY OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.) SYNTHETIC BINDERS OR CHEMICAL BINDERS MAY BE USED AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH PROVIDED SUFFICIENT DOCUMENTATION IS PROVIDED TO SHOW THEY ARE NON-TOXIC TO NATIVE PLANT AND ANIMAL SPECIES. MULCH ON SLOPES OF 8% OR STEEPER SHOULD BE HELD IN PLACE WITH NETTING. LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETS MAY BE STAPLED OVER THE MULCH ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

MAINTENANCE OF E&S CONTROL FACILITIES:

- INSPECTION SCHEDULE: INSPECT ALL BMP'S ON A WEEKLY BASIS AND AFTER EACH STORM WATER EVENT.
- MAXIMUM SEDIMENT STORAGE LEVEL IN BMP'S:
 - COMPOST SILT SOCK - ½ HEIGHT OF SOCK
 - ROCK FILTER OUTLET - ¾ HEIGHT OF OUTLET
 - INLET PROTECTION - ¾ FULL OR FLOODING/BYPASS OCCURS
 - COMPOST SOCK WASHOUT - ½ HEIGHT OF SOCK
- MAINTENANCE/REPAIR TIME FRAME: ALL BMP'S SHALL BE MAINTAINED THROUGHOUT THE PROJECT UNTIL THE SITE IS COMPLETELY STABILIZED. ANY NEEDED REPAIRS MUST BE MADE IMMEDIATELY TO MAINTAIN ALL FACILITIES AS DESIGNED.
- SEEDED AREAS: FERTILIZE AND RESEED AS NECESSARY TO MAINTAIN A DENSE VEGETATIVE COVER.
- ALL MULCHED AREAS WILL BE FREQUENTLY CHECKED AND CLOSELY MONITORED WITH RESPECT TO THEIR EFFECTIVENESS IN CONTROLLING EROSION STORM RUNOFF VELOCITIES AND SEDIMENT TRANSPORT. AREAS SHALL BE RE-MULCHED AS OFTEN AS NECESSARY UNTIL ADEQUATE GROUND COVER IS ESTABLISHED.
- INLET PROTECTION : SHOULD THE FABRIC ON AN INLET PROTECTION DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, IT SHALL BE REPLACED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT.
- COMPOST SILT SOCKS, SILT BARRIER FENCE AND/OR SEDIMENT FILTER LOG: SHOULD THE FABRIC ON AN SILT FENCE OR BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, IT SHALL BE REPLACED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT.
- ROCK CONSTRUCTION ENTRANCE: ADD NEW STONE AS REQUIRED.
- KEEP ALL ROADWAYS, ADJACENT PROPERTIES, AND WATER COURSES FREE FROM ALL DEBRIS, DROPPINGS AND SEDIMENT. IMMEDIATELY REMOVE ANY SUCH OCCURRENCES.
- DISPOSAL: UNSUITABLE MATERIAL SHALL BE HAULED FROM THE SITE FOR PROPER DISPOSAL.
- THE CONTRACTOR MUST MAINTAIN A WRITTEN LOG DOCUMENTING ALL INSPECTION DATES, INSPECTED BMP'S AND LIST OF ALL REPAIR /REPLACEMENT MEASURES TAKEN.

DCCD STANDARD E&S NOTES:

- VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY TO NOR EXIT DIRECTLY FROM SITE ONTO PUBLIC ROAD
- STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.
- THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED UNTIL THE SITE ACHIEVES FINAL STABILIZATION. THE OPERATOR SHALL ASSURE THAT THE BEST MANAGEMENT PRACTICES ARE IMPLEMENTED, OPERATED, AND MAINTAINED PROPERLY AND COMPLETELY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL BEST MANAGEMENT PRACTICE FACILITIES. THE OPERATOR SHALL MAINTAIN AND MAKE AVAILABLE TO LOCAL CONSERVATION DISTRICT COMPLETE, WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL MAINTENANCE WORK, INCLUDING CLEANING, REPAIR, REPLACEMENT, REGRADING, AND RE-STABILIZATION SHALL BE PERFORMED IMMEDIATELY.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
- BEFORE INITIATING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE LOCAL CONSERVATION DISTRICT.
- THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE LOCAL CONSERVATION DISTRICT, AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL AND/OR ROCK SPOIL AND BORROW AREAS, REGARDLESS OF THEIR LOCATIONS.
- ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS.
- THE OPERATOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
- THE E&S CONTROL PLAN MAPPING MUST DISPLAY A PA ONE CALL SYSTEM INCORPORATED SYMBOL, INCLUDING THE SITE IDENTIFICATION NUMBER.
- ONLY LIMITED DISTURBANCE WILL BE PERMITTED TO PROVIDE ACCESS TO SITE FOR GRADING AND ACQUIRING BORROW TO CONSTRUCT THOSE BMP'S.
- EROSION AND SEDIMENT BMP'S MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMP'S.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMP CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMP'S MUST BE STABILIZED IMMEDIATELY.
- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
- AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
- SEDIMENT BASINS (IF APPLICABLE)
- APPROVAL OF THE USE OF SKIMMER(S) DOES NOT APPROVE USE OF ANY SKIMMER(S) IN VIOLATION OF ANY PATENT, PATENT RIGHTS, AND/OR PATENT LAW.
- BAFFLES MUST BE INSTALLED TO ALLOW BASIN MAINTENANCE AND CLEAN OUT.
- UPON INSTALLATION OF THE TEMPORARY SEDIMENT BASIN RISER(S), AN IMMEDIATE INSPECTION OF THE RISER(S) SHALL BE CONDUCTED BY A QUALIFIED SITE REPRESENTATIVE AND LOCAL CONSERVATION DISTRICT SHALL BE NOTIFIED IN WRITING THAT THE RISER IS SEALED.
- SEDIMENT BASINS MUST BE PROTECTED FROM UNAUTHORIZED ACTS OF THIRD PARTIES.

OTHER BMPS

- SEDIMENT MUST BE REMOVED FROM STORM WATER INLET PROTECTION AFTER EACH RUNOFF EVENT.
- AT STREAM CROSSINGS, 50 FOOT BUFFER AREAS SHOULD BE MAINTAINED. ON BUFFERS, CLEARING, SOD DISTURBANCES, EXCAVATION, AND EQUIPMENT TRAFFIC SHOULD BE MINIMIZED. ACTIVITIES SUCH AS STACKING LOGS, BURNING CLEARED BRUSH, DISCHARGING RAINWATER FROM TRENCHES, WELDING PIPE SECTIONS, REFUELING AND MAINTAINING EQUIPMENT SHOULD BE ACCOMPLISHED OUTSIDE OF BUFFERS.

TEMPORARY STABILIZATION & PERMANENT STABILIZATION

- HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE.
- MULCH WITH MULCH CONTROL NETTING OR EROSION CONTROL BLANKETS MUST BE INSTALLED ON ALL SLOPES 3:1 AND STEEPER.
- STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGARDING, RESEEDING, RE-MULCHING, AND RE-NETTING, MUST BE PERFORMED IMMEDIATELY, IF EROSION AND SEDIMENT CONTROL BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.

NPDES NOTES

- THE NPDES BOUNDARY IS EQUAL TO THE PROPERTY BOUNDARY AND ANY OFF-SITE AREAS OUTSIDE THE LIMITS OF DISTURBANCE AND/OR PROPERTY BOUNDARY THAT ARE THE RESPONSIBILITY OF THE DEVELOPER TO INSTALL SUCH AS, BUT NOT LIMITED TO, OFF-SITE UTILITIES AND ROADWAY IMPROVEMENTS.
- THE PROJECT'S RECEIVING WATERCOURSE IS LITTLE CRUM CREEK, AND THE CHAPTER 93 CLASSIFICATION IS WWF & MF.

GENERAL E&S NOTES:

- TOTAL LIMITS OF DISTURBANCE = ±2.55 ACRES
- AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL PRIOR TO PLACING FILL.
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE EITHER STOCKPILED AT THE SITE IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION OR IMPORTED TO THE SITE AS NEEDED. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEP INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS OR AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
- FAILURE TO CORRECTLY INSTALL E&S BMP'S, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMP'S MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION
- CLEAN FILL - UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL THAT INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. IT DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE SURFACE WATERS UNLESS OTHERWISE AUTHORIZED, MILLED ASPHALT, OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.

PREPAREDNESS, PREVENTION & CONTINGENCY PLAN (PPC PLAN):

- CONTRACTOR IS RESPONSIBLE TO PREPARE PPC PLAN FOR THE PROPOSED CONSTRUCTION ACTIVITIES TO PREVENT THE POTENTIAL DISCHARGE OF POLLUTANTS IN TO THE STREAM.
- SUBMIT PPC PLAN TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING EARTH DISTURBANCE

SEQUENCE OF EARTH MOVING OPERATIONS:

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE CONTRACTOR SHALL INVITE ALL OTHER CONTRACTORS INVOLVED IN THESE ACTIVITIES, THE LANDOWNER, AND ALL APPROPRIATE MUNICIPAL OFFICIALS, TO SCHEDULE AN ON-SITE MEETING.

AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PA ONE CALL SYSTEM INC. AT 1-800-242-1776 OR 811 FOR BURIED UTILITIES LOCATIONS.

NO FIELD REVISIONS TO THE APPROVED E&S PLANS ARE ALLOWED UNLESS APPROVAL IS RECEIVED BY THE LOCAL COUNTY CONSERVATION DISTRICT.

- THE SITE CONTRACTOR SHALL BE RESPONSIBLE TO KEEP DIRT/MUD OFF OF PUBLIC ROADS. IF THE SITE CONTRACTOR FAILS TO DO SO, THEN THE OWNER SHALL REQUIRE THE CONTRACTOR TO INSTALL THE TEMPORARY ROCK CONSTRUCTION ENTRANCE/TIRE SCRUBBER AS DESIGNATED ON THE PLANS. ACCESS TO THIS SITE SHALL BE LIMITED TO THE CONSTRUCTION ENTRANCE SHOWN ON THE PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC TO ENSURE SEDIMENT IS NOT TRACKED ONTO TO PUBLIC ROADS.
- INSTALL ORANGE BARRIER FENCE TO DELINEATE THE LIMITS OF DISTURBANCE.
- INSTALL ALL TEMPORARY COMPOST FILTER SOCK WITHIN THE DESIGNATED LIMITS OF DISTURBANCE AS INDICATED ON THE E&S CONTROL PLAN.
- CLEAR, GRUB, STRIP AND STOCKPILE TOPSOIL FOR THOSE AREAS TO BE GRADED AS SHOWN ON THE E&S CONTROL PLANS. STRIPPING OF TOPSOIL SHALL BE KEPT TO A MINIMUM FOR THOSE AREAS BEING RE-GRADED AT A GIVEN TIME. STOCKPILES SHALL BE PLACED IN AN AREA NOT SUBJECT TO EROSION AND SURROUNDED BY A SILT FENCE ALONG THE DOWN SLOPE PERIMETER. EXCESS TOPSOIL TO BE HAULED OFF SITE TO AN APPROVED NPDES SITE/FACILITY.
- INITIATE ROUGH GRADING ACTIVITIES REQUIRED TO ACHIEVE THE PROPOSED GRADES AS SHOWN ON THE E&S CONTROL PLANS. DISTURBANCE SHALL BE LIMITED ONLY TO THAT AREA BEING GRADED AT A GIVEN TIME. GRADE SITE SO AS NOT TO TRAP WATER UPSTREAM OF EROSION CONTROL DEVICES.
- INSTALL INLETS/STORM SEWER SYSTEM AND INLET FILTERS. IF NECESSARY, TEMPORARILY PLUG ALL STORM STRUCTURES AND PIPE OPENINGS
- EXCAVATE AND CONSTRUCT ON-SITE IMPROVEMENTS INCLUDING UNDERGROUND UTILITIES, UNDERGROUND BASINS (CRITICAL STAGE), BUILDING, CURBING, AND LIGHT FOUNDATIONS. BACKFILL BUILDING FOUNDATION AS SOON AS POSSIBLE. CONTRACTOR MUST PROVIDE ADEQUATE DE-WATERING OF ANY TRENCHES THAT ENCOUNTER GROUNDWATER. INSTALL DRIVEWAY STONE BASE OVER PARKING LOT SUBGRADE AREAS AS TEMPORARY STABILIZATION AS SOON AS GRADE IS ESTABLISHED.
- CONSTRUCT/INSTALL PAVEMENT BINDER COURSE, CRITICAL STAGE - RAIN GARDEN, FINAL SITE GRADING. INSTALL BITUMINOUS PAVING AND CONCRETE. IMPLEMENT TEMPORARY VEGETATIVE STABILIZATION PROCEDURES.
- AS CONSTRUCTION PROGRESSES, MAINTAIN SHEET FLOW OF SURFACE RUNOFF TOWARD THE COMPOST FILTER SOCK.
- ONCE SITE IS BROUGHT TO GRADE, REMOVE INLET CAPS AND INSTALL INLET PROTECTION.
- COMMENCE REPLACEMENT OF TOPSOIL, LANDSCAPING, AND COMPLETE PERMANENT VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS WHICH ARE AT FINAL GRADE.
- INSTALL WEARING COURSE IN PAVED AREAS.
- WHEN SITE IS AT 70% UNIFORM PERENNIAL VEGETATIVE COVER, REMOVAL OF TEMPORARY CONTROLS MAY COMMENCE. UPON STABILIZATION OF ALL DISTURBED AREAS REMOVE ALL E&S FACILITIES AND MEASURES, INCLUDING FILTER FABRIC FENCE, INLET FILTERS, ROCK FILTERS, ETC. STABILIZE ALL DISTURBED AREAS AFFECTED BY REMOVAL OF SILT FENCE.
- THE CONTRACTOR MUST BE FAMILIAR WITH "EROSION AND SEDIMENT POLLUTION CONTROL MANUAL" BY PADEP, DATED MARCH 2012 OR LATEST EDITION. COPIES OF THE E&S PLANS MUST BE AVAILABLE ON SITE THROUGHOUT CONSTRUCTION.

GUIDE FOR REYCLING AND DISPOSING OF CONSTRUCTION WASTE:

- THE OPERATOR SHALL PROPERLY REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE STATES SOLID WASTE MANAGEMENT REGULATIONS 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ. AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THIS SITE.
- SOLID WASTE DISPOSAL: NO SOLID MATERIALS INCLUDING BUILDING MATERIALS ARE ALLOWED TO BE DISCHARGED FROM THE SITE WITH STORM WATER RUNOFF.
- CONCRETE WASTE: CONCRETE WASTE, UNUSED CONCRETE AND CONCRETE WASH WATER FROM READY MIX TRUCKS CAN BE DISCHARGED ON SITE SOLELY IN DESIGNATED BERMED AREAS SPECIFICALLY PREPARED TO CONTAIN THE WASH WATER AND PREVENT IT FROM BEING DISCHARGED FROM THE SITE WITH STORM WATER RUNOFF .
- DEMOLITION MATERIALS: DEMOLITION MATERIALS SHOULD BE SEPARATED INTO SALVAGEABLE MATERIALS, RECYCLABLE MATERIALS AND WASTE WHENEVER POSSIBLE.

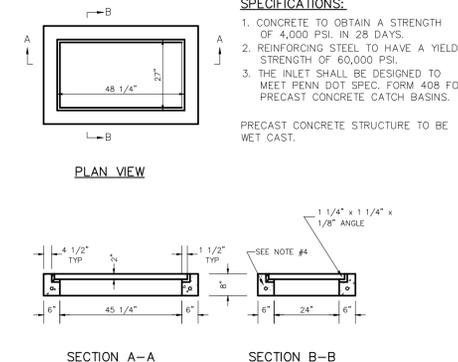
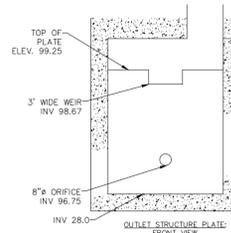
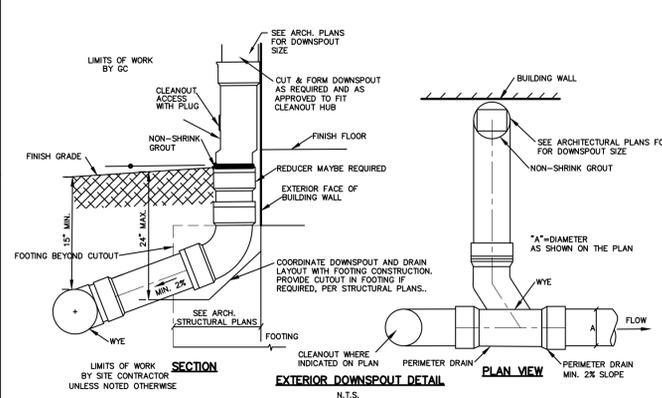
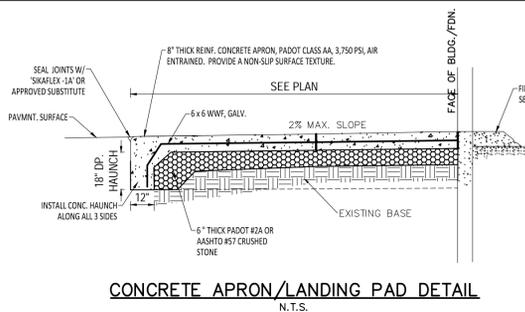
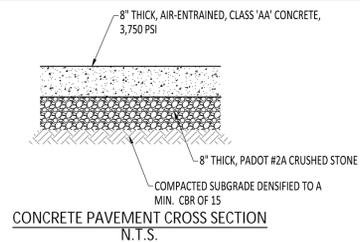
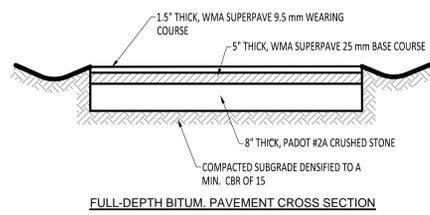
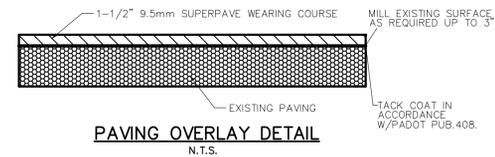
SITE HOUSE KEEPING & MATERIALS MANAGEMENT NOTES:

- WASTE MANAGEMENT - BUILDING MATERIALS AND OTHER CONSTRUCTION SITE WASTES MUST BE PROPERLY MANAGED AND DISPOSED OF TO REDUCE THE POTENTIAL FOR POLLUTION TO SURFACE AND GROUND WATERS IN ACCORDANCE WITH 25 PA CODE § 102.4(B)(5)(XI). IT IS ILLEGAL TO BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTE AT THIS SITE, SUCH AS, BUT NOT LIMITED TO, CONCRETE MATERIAL, BITUMINOUS MATERIALS, ETC.

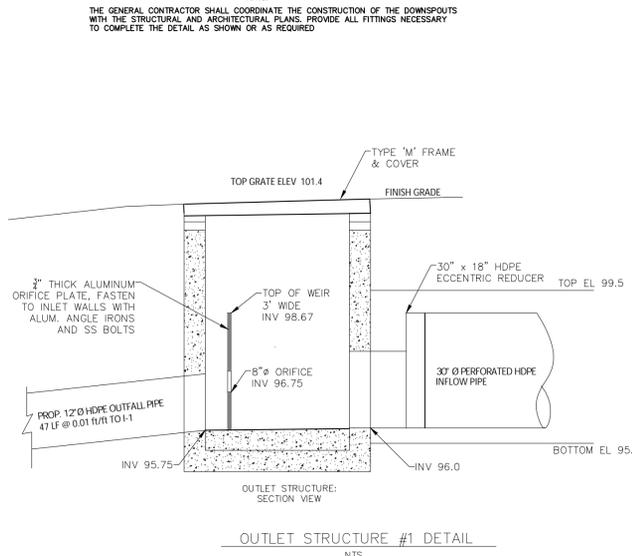
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	3	04-25-2023	PADOT COMM.	AHR	AHR
	2	03-29-2023	ISSUE FOR BID	AHR	AHR
	1	02-27-2023	PADOT HOP	AHR	AHR

	CATANIA ENGINEERING ASSOCIATES, INC. 520 WEST MACDADE BLVD. MILFORD PARK, PA. 19033 TEL. (610) 532-2884 FAX. (610) 532-2923 EMAIL: office10@cataniaengineering.com
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EROSION CONTROL NOTES RECYCLING CENTER NETHER PROVIDENCE TOWNSHIP	
TOWNSHIP OF NETHER PROVIDENCE DELAWARE COUNTY, PA	
CAUTION: TO INSURE VALIDITY OF PLAN, REGISTRATION SEAL MUST BE IN RED INK.	
DWN. BY <u>A.H.R.</u>	DWG. NO. <u>83250-109C</u>
CHK. BY <u>C.J.C.</u>	SCALE <u>1" = 20'</u>
	DATE <u>11/15/22</u>
	SHEET <u>8</u> OF <u>10</u> SHEETS



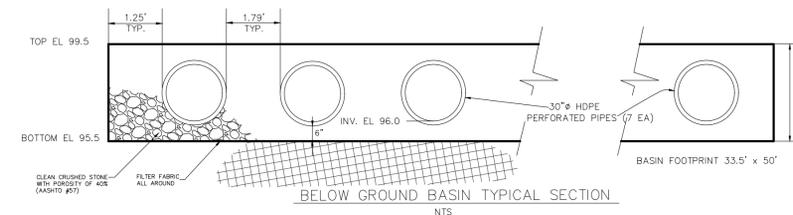
PRECAST CONCRETE INLET TOP TYPE M N.T.S.



OUTLET STRUCTURE #1 DETAIL N.T.S.

DETENTION/RECHARGE BASIN CONSTRUCTION SEQUENCE NOTES:

1. THE UNDERGROUND SEEPAGE BED (INFILTRATION BASIN) MAY NOT RECEIVE RUN-OFF UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA TO THE INFILTRATION SYSTEM HAS OBTAINED FINAL STABILIZATION.
2. THE EXISTING SUBGRADE UNDER THE INFILTRATION BED SHALL NOT BE COMPACTED OR SUBJECTED TO EXCESSIVE CONSTRUCTION EQUIPMENT TRAFFIC PRIOR TO THE PLACEMENT OF THE GEOTEXTILE FABRIC AND STONE.
3. EXCAVATION FOR THE INFILTRATION FACILITY SHALL BE PERFORMED WITH EQUIPMENT WHICH WILL NOT COMPACT THE BOTTOM OF THE BASIN.
4. THE BOTTOM OF THE BED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF AGGREGATE.
5. ONLY CLEAN AGGREGATE, FREE OF FINES, SHALL BE ALLOWED. USE ASHTO #57 STONE OR APPROVED SUBSTITUTE.
6. THE INFILTRATION BED SHOULD BE WRAPPED IN NON-WOVEN GEOTEXTILE FILTER FABRIC PER PA. STORMWATER BMP MANUAL.
7. WHERE VERTICAL WALLS ARE DIFFICULT TO MAINTAIN DURING CONSTRUCTION OF THE UNDERGROUND BASIN, BACKFILL OVEREXCAVATED AREAS WITH CRUSHED STONE.
8. IF BEDROCK OR GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION, CONTACT THE DESIGN ENGINEER IMMEDIATELY FOR DESIGN ALTERATIONS TO ACCOMMODATE ADJUSTED FIELD CONDITIONS.
9. IF APPLICABLE, SEAL ALL EDGES OF WEIR PLATE WITH SILICONE CAULK AND BOLT IN PLACE WITH STAINLESS STEEL BOLTS.

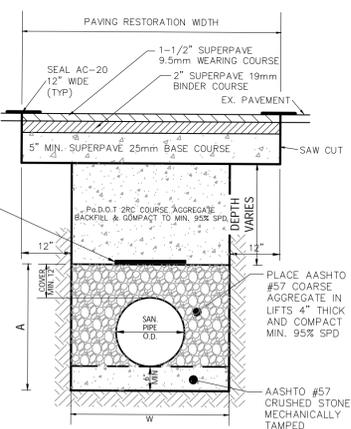


BELOW GROUND BASIN TYPICAL SECTION N.T.S.

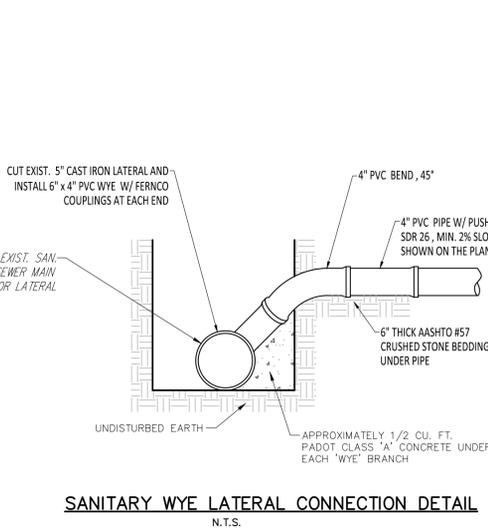
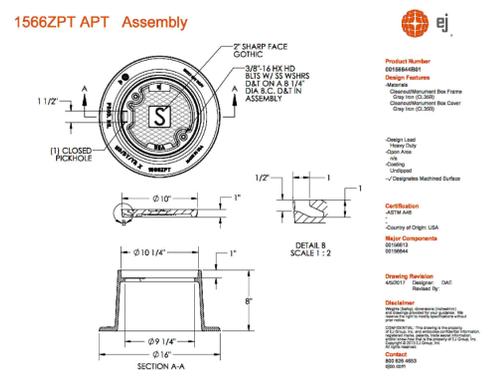
NOTES:

1. IN LANDSCAPED AREAS, FINISH GRADE ABOVE THE PIPE TRENCH SHALL HAVE A MIN. 6 INCHES OF TOPSOIL.
2. IN PAVED AREAS, TEMPORARY BITUMINOUS PAVEMENT CONSISTING OF 2" OF WMA 9.5MM WEARING COURSE SHALL BE INSTALLED UNTIL PERMANENT PAVEMENT IS INSTALLED (MAX. 120 DAYS)

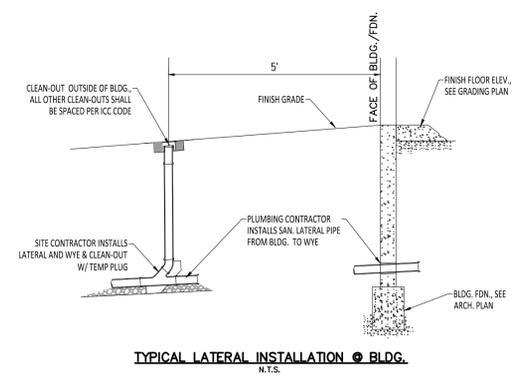
NOM. PIPE SIZE	TRENCH WIDTH (W), MIN.
4" - 6" Ø	18"
8" Ø	24"
10" - 18" Ø	30"



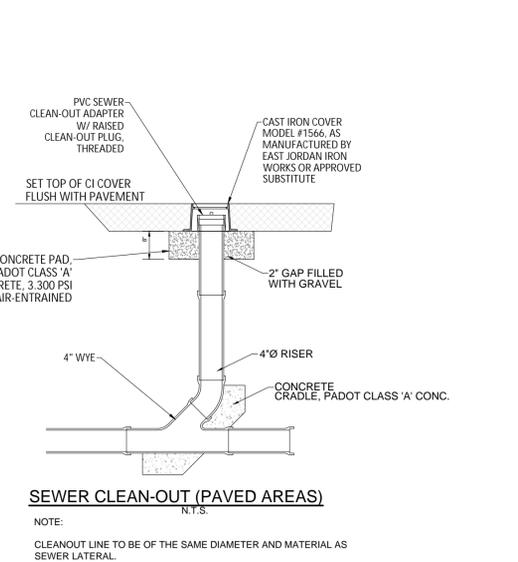
SANITARY PIPE TRENCH BEDDING, BACKFILL & PAVEMENT RESTORATION N.T.S.



SANITARY WYE LATERAL CONNECTION DETAIL N.T.S.

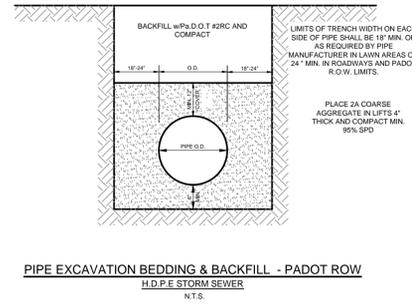


TYPICAL LATERAL INSTALLATION @ BLDG. N.T.S.

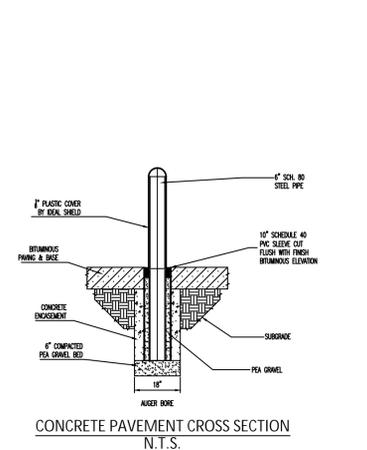


SEWER CLEAN-OUT (PAVED AREAS) N.T.S.

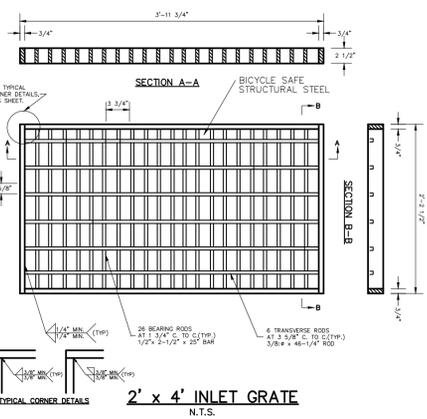
NOTE:
CLEANOUT LINE TO BE OF THE SAME DIAMETER AND MATERIAL AS SEWER LATERAL.



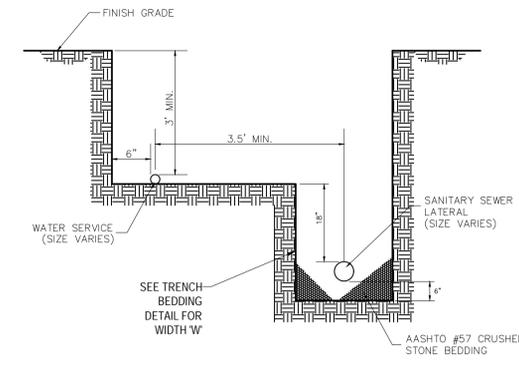
PIPE EXCAVATION BEDDING & BACKFILL - PADOT ROW N.T.S.



CONCRETE PAVEMENT CROSS SECTION N.T.S.



2' x 4' INLET GRATE N.T.S.



SANITARY / WATER TRENCHING DETAIL N.T.S.

NO.	DATE	REVISION	DRN. BY	CHK. BY
3	04-25-2023	PADOT COMM.	AHR	AHR
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CEA CATANIA ENGINEERING ASSOCIATES, INC.
520 WEST MCDONALD BLVD.
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DETAIL SHEET
RECYCLING CENTER
NETHER PROVIDENCE TOWNSHIP

TOWNSHIP OF NETHER PROVIDENCE DELAWARE COUNTY, PA

DWN. BY: A.H.R. DSG. BY: FIELD BOOK/PAGE SCALE: 1" = 10' DRAWING NO.: 83250-109G
CHK. BY: C.J.C. DATE: 11/17/22 SHEET: 9 OF 10 SHEETS

PATA 101-A

PATA 101-A

- The shadow vehicle and TTC devices are not required if the work space is outside the highway right-of-way, behind barrier, more than 2' behind curb, or 15' or more from the edge of the roadway.
- For operations of 60 minutes or less, all TTC devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.
- When a shadow vehicle is not used, distance A is measured from the ROAD WORK sign.



Speed S (MPH)	Channelizing Devices Spacing 2S (Feet)	Sign Spacing		Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)	
25	50	100 - 200	500 - 800	150
30	60	100 - 200	500 - 800	150
35	70	100 - 200	500 - 800	150
40	80	350 - 500	500 - 800	150
45	90	350 - 500	500 - 800	150
50	100	350 - 500	500 - 800	250
55	110	350 - 500	500 - 800	250

PATA 102

- For operations of 15 minutes or less:
 - The ROAD WORK sign is not required.
 - All channelizing devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.
- When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.



Speed S (MPH)	Channelizing Devices Spacing 2S (Feet)	Sign Spacing		Buffer Space E (Feet)	Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)		
25	50	100 - 200	500 - 800	155	150
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250

Speed S (MPH)	Taper Lengths and Minimum Number of Channelizing Devices	
	Length (Feet)	Minimum Number Of Devices
25	45	6
30	60	6
35	85	6
40	110	6
45	180	6
50	200	6
55	220	6

PATA 107

PATA 107

- Flaggers shall be clearly visible to traffic for a minimum distance of E.
- For operations of 15 minutes or less:
 - The ROAD WORK, ONE LANE ROAD, and FLAGGER SYMBOL signs are not required.
 - All channelizing devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.
- When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.



Speed S (MPH)	Channelizing Devices Spacing 2S (Feet)	Sign Spacing		Buffer Space E (Feet)	Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)		
25	50	100 - 200	500 - 800	155	150
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250

Speed S (MPH)	Taper Lengths and Minimum Number of Channelizing Devices	
	Length (Feet)	Minimum Number Of Devices
25	50	6
30	50	6
35	50	6
40	50	6
45	50	6
50	50	6
55	50	6

PATA 202-A

PATA 202-A

- TTC devices are not required if the work space is outside the highway right-of-way, behind barrier, more than 2' behind curb, or 15' or more from the edge of the roadway.
- When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.



Speed S (MPH)	Channelizing Devices Spacing 2S (Feet)	Sign Spacing		Buffer Space E (Feet)	Roll Ahead Space H (Feet)
		Urban A (Feet)	Rural A (Feet)		
25	50	100 - 200	500 - 800	155	150
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250

Speed S (MPH)	Taper Lengths and Minimum Number of Channelizing Devices	
	Length (Feet)	Minimum Number Of Devices
25	45	6
30	60	6
35	85	6
40	110	6
45	180	6
50	200	6
55	220	6

SIGNAGE TABLE :

SYMBOL	SIGN SERIES	SIZE	DESCRIPTION	MAINTENANCE RESPONSIBILITY
A	R1-1	30" x 30"	STOP	PERMITTEE/PROPERTY OWNER
B	R5-1	30" x 30"	DO NOT ENTER	PERMITTEE/PROPERTY OWNER
C	R6-1L	12" x 36"	LEFT ONE-WAY	PERMITTEE/PROPERTY OWNER
D	R6-1R	12" x 36"	RIGHT ONE-WAY	PERMITTEE/PROPERTY OWNER
E	R3-2	24" x 24"	NO LEFT TURN	PERMITTEE/PROPERTY OWNER

SIGN NOTES:

- SIGNS MUST BE INSTALLED TO PADOT STANDARDS AND PADOT'S REQUIRED LATERAL AND VERTICAL CLEARANCES PER PADOT PUB 111, TC-8702B.
- SIGN POSTS SHALL BE PADOT TYPE 'B' STEEL POSTS.

NO.	DATE	REVISION	DWG. BY	CHK. BY
3	04-25-2023	PADOT COMM	AHR	AHR
2	03-23-2023	ISSUE FOR BID	AHR	AHR
1	03-20-2023	PADOT HOP	AHR	AHR

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SIGNAGE & PAVEMENT MARKING
PLAN - ADD ALTERNATE
RECYCLING CENTER
NETHER PROVIDENCE TOWNSHIP

MAINTENANCE AND PROTECTION OF TRAFFIC (MPT) NOTES:

- THIS WORK CONSISTS OF THE MAINTENANCE AND PROTECTION OF TRAFFIC AND THE PROTECTION OF THE PUBLIC WHEN APPROACHING AND DEPARTING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.
- FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES. MAINTAIN TRAFFIC DURING HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES CONSISTENT WITH THE METHODS INDICATED ON THESE DRAWINGS AND THE FOLLOWING:
 - PENNDOT PUBLICATION 35;
 - PENNDOT PUBLICATION 46;
 - PENNDOT PUBLICATION 72M;
 - PENNDOT PUBLICATION 111;
 - PENNDOT PUBLICATION 212;
 - PENNDOT PUBLICATION 213;
 - PENNDOT PUBLICATION 236;
 - PENNDOT PUBLICATION 408; AND
 - MUTCD, LATEST PENNDOT ADOPTED EDITION.

- REMOVE THESE DEVICES IMMEDIATELY UPON COMPLETION OF THE WORK. PENNDOT WILL REMOVE ANY TRAFFIC CONTROL DEVICES ERECTED BY DEPARTMENT FORCES.
- PERMITTEE MUST ARRANGE FOR INSPECTION OF ALL TRAFFIC CONTROL DEVICES PRIOR TO START OF WORK.
- COVER OR REMOVE ALL CONFLICTING SIGNS AND ERADICATE ALL CONFLICTING PAVEMENT MARKINGS.
- MOUNT ALL LONG-TERM ADVANCE WARNING SIGNS ON TYPE III BARRICADES UNLESS OTHERWISE NOTED OR INSTRUCTED BY DISTRICT OFFICE.
- ALL SIGNS AND DEVICES TO BE MAINTAINED IN NEW OR LIKE NEW CONDITION.
- DRIVEWAYS WILL BE KEPT ACCESSIBLE AT ALL TIMES. LOCATE ALL SIGNS SO THAT SIGHT DISTANCES WILL NOT BE OBSTRUCTED AT DRIVEWAYS AND LOCAL ROADS.
- ALL CHANNELIZING DEVICES, BARRICADES, AND SIGNS SHALL HAVE TYPE III OR BETTER PRISMATIC RETROREFLECTIVE SHEETING. SHEETING SHALL BE APPROVED AND LISTED IN PENNDOT PUBLICATION 35 (BULLETIN 15).

- NO TRAFFIC RESTRICTIONS OR LANE CLOSURES ARE PERMITTED BETWEEN 6:00 AM AND 9:00 AM AND BETWEEN 3:00 PM AND 6:00 PM MONDAYS THROUGH FRIDAYS OR ON LEGAL HOLIDAYS AND WEEKENDS ASSOCIATED WITH LEGAL HOLIDAYS. ALL RESTRICTIONS AND CLOSURES ARE TO BE REMOVED BY NOON ON THE DAY PRIOR TO THE LEGAL HOLIDAY.
- PERMITTEE SHALL NOTIFY LOCAL EMERGENCY AUTHORITIES (E.G., POLICE, FIRE, MEDICAL), AFFECTED BUSINESSES, SCHOOL DISTRICT(S), THE GENERAL PUBLIC, THE DISTRICT PERMIT MANAGER AND THE DISTRICT APRAS COORDINATOR AT LEAST 14 DAYS PRIOR TO ANY SIGNIFICANT TRAFFIC IMPACTS (E.G., LATERAL WIDTH RESTRICTIONS LESS THAN 16 FEET, DETOURS), MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE PATA DRAWING (S) 101-A, 102, 107 & 202-A IN THE CURRENT VERSION OF PENNDOT PUBLICATION 213, "TEMPORARY TRAFFIC CONTROL GUIDELINES".

- DROPOFFS CREATED BY CONSTRUCTION OPERATIONS SHALL BE TREATED CONSISTENT WITH PUBLICATION 408, SECTION 901.3(J).
- REMOVE ALL SHORT-TERM WORK ZONE TRAFFIC CONTROL SIGNING UPON COMPLETION OF THAT DAY'S WORK PERIOD. RESTRICTING TRAFFIC FLOW WITHIN THE WORK AREA SHALL BE MINIMIZED TO PREVENT TRAFFIC CONGESTION AND UNSAFE TRAFFIC CONDITIONS.
- NOTIFY THE LOCAL MUNICIPALITY WHERE SIGNALIZED INTERSECTIONS OCCUR WITHIN THE WORK ZONE. DO NOT FLAG A SIGNALIZED INTERSECTION WITHOUT THE MUNICIPALITY PLACING THE SIGNAL ON FLASH.
- THE CONTRACTOR SHALL COMPLY WITH ACT 229 OF DECEMBER 2002 DURING CONSTRUCTION ACTIVITIES WITHIN PENNDOT'S RIGHT-OF-WAY.

