	Sketch		
	Preliminary	FILE NO.:	_9
X	Final		
	SUBDIVISION	AND LAND DEVELOPMENT APPLICATION	
		CITY OF ALLENTOWN	
	ALLENTO	OWN CITY PLANNING COMMISSION	
DATE: _	August 16, 2022		
NAME O	F SUBDIVISION:	Cumberland Apartment Complex	
ADDRES	S OF SUBDIVISION:	6th and Cumberland Streets	
PROPER	RTY OWNER:	Cottage Investors LP	
	ADDRESS:	116 Route 22	-
	CITY, STATE, ZIP	North Plainfield, NJ 07060	
	E-MAIL ADDRESS:		
		arknj.com FAX#:	
APPLICA	NT (If other than owner):	The Yasin Khan 2021 Family Trust	_
A	ADDRESS:	1146 South Cedar Crest Boulevard	_
C	CITY, STATE, ZIP	Allentown, PA 18103	
E	E-MAIL ADDRESS:	drynkhan@gmail.com	
F	PHONE #: 610-905-6036	FAX#:	e.
SURVEY	OR/ENGINEER/ATTORNEY:	Bernard Telatovich, Benchmark Civil Engineering Services, Inc.).
P	ADDRESS:	1727 Jonathan Street	
C	CITY, STATE, ZIP	Allentown, PA 18104	
E	E-MAIL ADDRESS:	bernie.telatovich@bencivil.com	-
F	PHONE #: 610-776-6700	FAX #:	_
SUBDIVI	SION CLASSIFICATION:	Minor Major Deed Consolidation X	
LAND DE	EVELOPMENT:	Minor Major _X	
NUMBER	R OF LOTS: A	CREAGE:	
		Retail: Warehouse: Other:	422 (All floo
	SED DEVELOPMENT:	Apartments	
ARE MUN	NICIPAL UTILITIES AVAILABLE	YES_XNO	
FEE: (Ple	ease complete page 2 and enter must accompany submission)	r the fee here): \$27,847.98	
	mast accompany submission)		
public	c records as defined in the Penn	and other documentation submitted on behalf of an application bed nsylvania Right to Know Law, 65 p.s. § 66.1 et. Seq. If all subdivisions must be accompanied by an electro	
copy proje	y and a hard copy of the sect elevation/rendering, as	site plan (8.5" x 11"), location map, project descripted accumentation of Lehigh Valley Planning Commis	tion,
	Lehigh County Authority s ew submissions require 10 sets of	submissions. of plans and <u>four</u> (4) copies of all reports.	
SIGNATU	JRE OF OWNER APPLICANT O	OR AUTHORIZED REPRESENTATIVE:	
	Sinhature V	Title	-

Effective anuary 2019

(Turn over for fee schedule.)



Planning & Zoning Staff Report to the Allentown City Planning Commission September 13, 2022

Proposed Apartment Buildings

Project Title (Number): Cumberland Apartment Complex (LMA-2022-00015 & LDC-2022-00007)

Project Location: S. 6th & W. Cumberland Sts. **Type**: Major Land Dev't / Preliminary-Final Plan

Owner: Cottage Investors LP **Engineer**: Benchmark Civil Eng'g (Bernard Telatovich)

<u>Salient Features</u> (Fig-1): Construction of four, 3-story apartment buildings containing a total of 150 dwelling units on 6.3 acres of vacant land. Project includes the following, among other activities:

a. Street vacation (portions of S. 6th St., W. Cumberland and East St.)

b. Land consolidation

c. Land clearing and grading.

d. 250 parking spaces (for residents and visitors).

e. Landscaping and lighting.

Findings / Comments

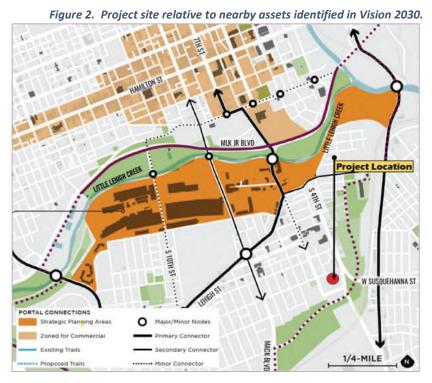
Figure 1: Aerial of project vicinity showing project location, site plan (page 5/26 of submission) and abutting land uses.



1. The project site is in South Allentown. It consists of 15 vacant parcels as well as lands that will accrue from vacating some street segments. When consolidated, total land area for

development will be approximately 6.3 acres.

- 2. It may be recalled that this location used to host the former Montex Mills Textile plant, which burned down in 2005 and has since remained vacant. In 2013, parcels south of W. Cumberland Street and east of N. 6th Street were re-zoned from B/LI (business light-industrial) to RM (residential medium density) in preparation for residential development. That planned residential project called cottage-type housing, however, did not proceed.
- 3. In May 2022, all but one parcel had their zoning designations harmonized from RM (residential medium) to R-MH (residential medium-high density), which is a proper zoning for the proposed apartment complex. For efficient land use administration, staff recommends for the applicant to:
 - a. Work towards vacating the street segments that will form part of the development.
 - b. Cause the integration of the 15 distinct parcels into one contiguous lot.
- 4. (Refer to Fig-2.) Allentown Vision 2030 locates the project site just south of the strategic planning area of Little Lehigh Creek where a of economic variety opportunities maker for workforce spaces, development and industrial locations available. are Likewise, the past comprehensive plan (2010) recognized this location as having underutilized residential and industrial lands with opportunities for growth and development but that it is deemed challenged by narrow streets, soil contamination issues, and steep slopes.



- 5. Nonetheless, Allentown needs more housing regardless of tenancy, building-type or location. Staff deems this proposed residential project consistent with the housing element of Vision 2030 and a proper complement to the industrial hub along Little Lehigh Creek.
- 6. City GIS maps suggest the presence of underground utilities (water and sanitary sewer) located around the perimeter of the site that can be tapped to service the needs of the development.
- 7. <u>Building 1 Location vis-à-vis Parking Lot A</u> The site plan (depicted in Fig-3 next page) shows Parking Lot A abutting residential uses along its north border. It seems sensible but not critical in this case to relocate Bldg. 1 northward to switch locations with Parking Lot A, such that residential uses abut each other thereby avoiding potential land use conflicts that may arise from different activities.
 - a. The applicant may wish to consider switching the location of Bldg. 1 with Parking Lot A and reconfigure the parking and sidewalk layouts because of this change.

Planned Sidewalks

Additional Sidewalks

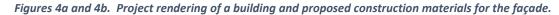
Bldg. 1

Bldg. 2

Figure 3. Project site plan showing locations of major land uses and sidewalks.

- 8. <u>Traffic Generation</u> When the project site was being reviewed for re-zoning early this year, Staff mentioned that this type of high-density residential development will affect future traffic flows in the vicinity.
 - a. Staff strongly recommends for the applicant /developer to undertake and submit to the city a traffic impact assessment of the project.
- 9. <u>Sidewalks</u> The planned sidewalks (shown as green lines Fig-3) lack overall connectivity as to encourage walking within the development and engender pedestrian safety. It is strongly recommended for the developer to:
 - a. Install additional sidewalks in areas where normal pedestrian traffic would occur, such as around the residential buildings and near parking lots.
 - b. Make the effort to connect the interior sidewalks with the sidewalks outside the development.
- 10. <u>Lighting</u> the lighting plan seems adequate for the most part. In addition, however, the developer may wish to:
 - a. Install additional lighting for Bldg. 4 where the structure abuts W. Cumberland and S. Virginia to properly illuminate these areas to increase sense of safety and comfort.
- 11. <u>Landscaping and Trees</u> Staff has no further substantive comment on the landscaping plan except to remind the developer that:
 - a. The site has a few mature, healthy trees along the south and west borders and to consider retention /integration into the proposed development.

<u>Conclusion</u> -- Assuming all details on site planning, zoning, traffic and stormwater management have been satisfactorily addressed, Staff recommends endorsement of the project.









Mark Hartney, Deputy Director
Community and Economic Development
435 Hamilton Street
Allentown, PA 18101-1699
Office 610-437-7610
Mark.Hartney@allentownpa.gov

September 12, 2022

The Yasin Khan 2021 Family Trust 1146 South Cedar Crest Boulevard Allentown, PA 18103

> RE: 6th and Cumberland Streets LMA-2022-00015 & LDC-2022-00007 Revised Comments

Dear Yasin Khan 2021 Family Trust,

The above-referenced major land development plan has been reviewed by the appropriate City offices. We offer the following comments: (If you have any questions, please call the listed phone number.)

Engineering 610-437-7589:

The Bureaus of Engineering and Traffic have reviewed the subject plans and supporting documentation prepared by Benchmark Civil Engineering Services, Inc. dated August 16, 2022, no revision and offer the following comments and/or recommendations to be addressed in subsequent plan submissions:

- All resubmissions must be accompanied by 4 copies of a written response letter addressing each Engineering and Traffic comment and referencing appropriate plan revision locations in the plan set. Attach a copy of the most recent City review letter to your written response.
- 2. Provide copies of the deeds for the development tract including any easements that may exist and the deeds for the adjoining tracts. Is there an agreement with an easement area for the Adams billboard along S 5th Street? A restrictive area should be noted with the agreement.
- 3. Provide approved NPDES permit and E&S approval from the LCCD.
- 4. Provide LCA approval of the water and sewer connections.

- 5. Provide LVPC review letter.
- 6. Add the notation "Final Plan" to the title block of each sheet.
- 7. Provide an existing features and design plans with current topography from a field survey. Provide benchmarks and ensure they are shown and referenced on the grading plans at a minimum.
- 8. Show the number and location of existing trees and all those marked for retention. In accordance with § 355-12B no living tree with a diameter of more than 6" shall be removed except where buildings or appurtenances are to be placed. Existing impervious areas should be shown and clarify the distribution of pervious cover types among lawn, woods, and meadow as applicable.
- 9. Revise the street vacation plan to a lot consolidation plan and include the pertinent lot consolidation information (property line to be deleted, etc).
- 10. The western limit of the vacation Ordinance 12768 is at the centerline of S Virginia Street.
- 11. Susquehanna Street from S Virginia St to S 7th St should be shown as to be vacated.
- 12.S Virginia St from Cumberland St to its S Terminus should be shown as to be vacated.
- 13. Cumberland St from S 6th St to S 5th St should be shown as to be vacated.
- 14. The interior property lines within S Fair St should be removed on the site plan.
- 15. Ownership should be listed for 1025 S 6th St.
- 16. The proposed Fair St cul-de-sac should be shown within existing and proposed right-of-way. The right-of-way line for S Fair St should include the areas along property K and 1025 S 6th St. If the plan is to remain as shown property K & 1025 S 6th St will need to sign off on the plan and a new Deed will need to be recorded for each property.
- 17. Ensure that all the right-of-way and cartway widths of the adjoining roadways are labeled and dimensioned.
- 18. Per § 545-13A of the Streets, Utilities and Public Service Code, "It shall be the duty of owners of property having frontage on a dedicated and opened public street or alley to construct sidewalks, curbs, handicap ramps and cross-overs (driveways) where any of the following apply: "Construction of new residential or non-residential structure". Propose curbing along Rye St. The existing depressed curb, apron, and ramp on the S 5th frontage should be removed and replaced with full height curb and

- sidewalk. Propose curb and sidewalk along the S 5th frontage of the property. A PennDOT project is under design that will change the S 5th St and Susquehanna St intersection. Any curb and sidewalk design must be coordinated with the new layout. Please contact the engineering bureau for additional information on the plan.
- 19. The applicant may seek a postponement from installing sidewalks per § 545-16: Variances. The Allentown Planning Commission will hear requests from property owners for variances from the duties to construct a sidewalk imposed by this article. The Commission may grant variances either modifying or postponing the obligation imposed by this article up to a period of ten (10) years where: the character of the neighborhood is such that the installation of sidewalks would not serve any public purpose; or where unique physical conditions make the installation of sidewalks an undue hardship, and the absence of this installation would not materially affect the public safety and conveniences.
- 20. The crossovers should be labeled as commercial crossovers and the sidewalk area should be continuous through the crossover uninterrupted by radius curb.
- 21. Provide new ADA ramps on the south west corner of 6th Street oriented for the north-south crossing of Cumberland St with thermoplastic crosswalk.
- 22. The proposed unit # range for each floor of each apartment should be listed on Sheet 5 for addressing purposes.
- 23. The following addresses should be labeled on the buildings; Building #1=541 Cumberland Street, Building #2=602 Cumberland Street, Building #3=551 Cumberland Street and Building #4= 520 Cumberland St.
- 24. At least one accessible route within the site shall be provided from accessible parking and public streets or sidewalks to the accessible building entrances. The design must include defined pedestrian access routes from the perimeter sidewalk to the building entrances. The route should be selected to accommodate the most likely access points and provide safe passage through the parking and aisle areas.
- 25. Provide complete stormwater management calculations. Provide drainage area and routing information for UG basin 1. Runoff must be demonstrated as being controlled and conveyed safely downstream. The 100 yr event calculations provided do not identify the peak outflow from UG basin 1 to the existing system to demonstrate that adequate capacity is available downstream. Information about the existing storm infrastructure should be shown on the plan including pipe material and size.
- 26. Provide site investigations including geotechnical evaluations and infiltrations studies.
- 27. Provide a during construction analysis of stormwater impacts and downstream analysis including the detention basin routings. Identify where runoff in excess of the downstream

- capacity goes. Inadequate capacity may need to be mitigated with onsite BMPs or storm sewer improvements.
- 28. Infiltration areas must meet the buffer requirements noted in Ordinance § 538-15l or the applicant is to provide the ordinance indicated documentation to be granted relief from the buffer requirements.
- 29. Add a BMP tabulation (listing all the BMP devices to be employed on the site) on the PCSM plan.
- 30. Provide the 2-yr water quality volume treated on the PCSM plan.
- 31. The detail sections for the underground basins and the outlet structures do not appear to match the calculations. Provide a plan view detail of the underground basins.
- 32. The connecting storm line from UG basin 2 to OCS- 2 should be shown.
- 33. OCS-2 is shown under the proposed fence. Identify access points for MH 7, 8, and 6 to be maintained.
- 34. Provide the elevations and grades of the roof drains. The roof drain of the southeastern most building shall be directed to the site storm sewer.
- 35. Prior to final plan signatures for recording, the owner shall sign an operation and maintenance agreement for stormwater BMP's and a Stormwater License agreement for connection to the City stormwater system. The agreement templates must be requested from the City Engineering Department (Please contact Mike Lichty at Michael.Lichty@allentownpa.gov). The Owner will sign and notarize, and return to the City Engineering Department, The City will have the agreement signed by the Mayor and notarized. The City will return to the Owner, the Owner shall record the agreement at the office of the Lehigh County Recorder of Deeds, and then the Owner will supply a copy of the recorded documents to the City Engineering Department. (Stormwater Management Ordinance § 538-Appendix E). Due to the lengthy nature of this process, we encourage the applicant to start the process as soon as the stormwater BMP Plans are approved.
- 36. Provide a note on the plan stating that a connection permit from the City Engineering Bureau for each connection to the public storm sewer must be obtained prior to construction.
- 37. Provide a note stating: survey cut sheets for curbing shall be submitted to the city for review prior to construction.
- 38. Provide a note that Prior to apply for any Building permit, County Tax Parcel Identification Numbers should be reassigned for all new lots.

- 39. An analysis of sanitary sewage planning will need to be made and submitted. If there is an increase in sanitary flow from the previous use or any previously approved planning module, a sanitary sewer planning module will need to be proposed, routed through LCA and the City, and submitted to DEP for their review and approval. Provide any previously approved sewage planning module used for the analysis.
- 40. City mapping shows a waterline extending through Cumberland St to S 5th St. going under a proposed structure. The line should be located or its existence should be verified.
- 41. Provide locations for power, communications, and gas utility lines to service the development as applicable.
- 42. The following zoning steep slope standards shall apply whenever existing areas of steep slopes are proposed for development or disturbance:
 - In areas with twenty-five (25) percent to thirty-five (35) percent slope, no more than twenty-five (25) percent of the total of such areas shall be altered, regraded, cleared, built upon or otherwise altered.
 - In areas of thirty-five (35) percent slope or greater, no area shall be altered, re-graded, cleared, built upon or otherwise altered.

Provide a table denoting area (SF or Acre) of 25% to 35% slopes and 35% + slopes. Also indicate the area and percentage of proposed disturbance of each.

- 43. The zoning ordinance does not provide relief for man-made steep slopes. If the zoning ordinance percentage of allowed slope disturbance is exceeded, a zoning variance must be sought.
- 44. Waivers and variances sought by the applicant and granted by the City of Allentown should be listed on the plan along with the dated granted.
- 45. The Surveyor Signature Block should be revised to be consistent with the signature block as contained in the City of Allentown Land Development and Subdivision Ordinance.
- 46. Provide all certifications, signature blocks and proof of recording on each sheet to be recorded. All PCSM sheets are to be recorded. Sheets 1, 2, 3(Consolidation Plan), 5, 21, 22, 23, 24, 25, & 26 will need to be recorded and should have all signature blocks.
- 47. The proposed monumentation for the developed lot must be indicated on the site plan. The plan should show each proposed property corners as "monument to be set" (concrete monuments for road right of way frontage, iron pins for all other boundary changes). Also, denote each type and location of the "found" monumentation.
- 48. The sanitary line will require an easement from the adjoining property owner on 7th St. The metes and bounds for any proposed easements must be defined on the plan.

Signed easement agreements shall be provided or the adjoining owner should be also signing the plan.

- 49. Provide the E&S control plan narrative.
- 50. Various notes on the notes plan should be revised to reference the City, not Township. General note 9 does not appear to apply and should be removed.
- 51. In reference to the Record Plan, the following notes shall be added to the plan.
 - a) Water quality drainage structures shall be periodically inspected and maintained by the owner. In the event that the recorded owner(s) fails to property maintain the facilities which are the responsibility of the recorded owner(s) after notification to said owner(s) by the City, the City is authorized to enter upon the property to perform such maintenance and thereafter recover the cost of performing such maintenance from the record owner(s). In order to enforce the recovery of such cost maintenance, the City shall have the right to file a municipal lien against the recorded owner(s) and therefore to exercise its remedies in accordance with the Home Rule Charter
 - b) Owner is required to periodically inspect and maintain the on-site water facilities, primarily the BMP and storm water management devices, and have a log on hand of when such inspection & maintenance has been performed. This log shall be made available to the City during a post storm water inspection.
 - c) All Storm sewer collection system piping shall have water-tight joints conforming to the latest or supersession of ASTM C361, C443, C877, C1628, C1896, D3212, and others as approved by the City Engineer.
 - d) Runoff from all on-site impervious areas shall not be directed into the public sanitary sewer, across the sidewalk area within the public right-of-way, or onto adjoining properties.
 - e) All lateral sanitary sewer piping is to be sch 40 or SDR-26 PVC piping.
 - f) Any work to be done in the public rights-of-way shall be done in accordance to City and LCA standards.
 - q) Work to be performed onsite, shall be done in accordance with the IBC.
- 52. The Land Development Control Ordinance, § 355-11B indicates that "The horizontal distance from either the toe or top of an excavation or fill slope line shall be five (5) feet or one-half the height of the fill or excavation from any adjoining property or easement line, whichever is greater. This condition is not met along the southwestern property

lines of the proposed development. Revise the design, acquire easements, or request waivers of the requirement from the Planning Commission. At locations where waivers are granted, if any, construction fencing must be placed on the property line to ensure no grading across the line occurs.

- 53. The plan must include a note that states: "The proposed retaining wall design will be prepared, signed and sealed by Professional Engineer registered in the state of Pennsylvania and shall be submitted at the time of building permit application to be reviewed and approved by an approved third party reviewer. The wall shall be designed to be contained completely within the applicant's property or an easement shall be acquired and indicated on the record plan to allow for the construction of any portion of the wall and / or wall tie-backs to be constructed on the adjoining property."
- 54. Provide a protective device such as fence or handrail at least 42" high at the top of any retaining walls higher than 30".
- 55. Provide additional information about proposed retaining walls including locations, extents, and the top and bottom of wall elevations.
- 56. The applicant must pay the Shade Tree Commission's assigned fee for trees that are required per the Zoning and Tree Commission Ordinances but not able to be planted on the project site. Proof of plan approval or payment of the fee to the Shade Tree Commission must be provided prior to mylar signature.
- 57. All review comments contained in this letter shall be addressed as well as any future comments in subsequent submissions related to this letter. All provisions of the City ordinances shall be addressed prior to final plan signatures.
- 58. An engineering improvements cost estimate for all public improvements must be prepared and should also include items for E&S controls and maintenance, stormwater BMPs and appurtenant storm sewer. A colored plan shall be provided indicating the proposed improvements that security will be provided for. The engineering security cost estimate shall be titled, dated and signed by a Professional Engineer. The engineering improvements cost estimate for land development escrow must also provide at a minimum a 10% contingency cost, a 5% inspection fee, and a 2% as-built Plans and Profiles in AutoCAD format fee. Also, provide a colored plan depicting the various public improvement items corresponding to the engineering improvements cost estimate.

Upon completion of addressing all outstanding comments and at the time of record plan mylar signature by the City Engineer, provide three complete sets of signed and sealed land development plans stamped "FOR CONSTRUCTION" for the Engineering Department's use.

Traffic 610-437-7735:

- 1. Provide one way, do not enter, stop sign and stop bar and related proper signage at entrance/exit area.
- 2. Show existing street signs, pavement markings, widths, travel lanes, parking areas, street lighting and all related information.
- 3. Provide handicap ramps at all sidewalk 'end' areas which meets pave or concrete.
- 4. Show existing and proposed pedestrian crossing areas with related signage and pavement markings.
- 5. Show existing and proposed handicap ramps, handicap travel paths and access paths to all entrances and sidewalk areas.
- 6. Provide trash truck, delivery, and fire truck turning templates through the development and S Fair St cul-de-sac.
- 7. Add concrete parking stop blocks for the existing and proposed parking spaces facing sidewalks and fences.
- 8. Provide appropriate signs and pavement markings to the entire parking lot areas, including directional arrows. Note that all pavement markings must be thermoplastic.
- Label the dimension of all curb radii throughout the entire parking and travel areas.
- 10. Eliminate parking spaces (2) at dumpster area at lot north building #1.
- 11. Provide travel path for pedestrians parking in :
 - a. Lot north of proposed apartment building #4,
 - b. Lot east of proposed apartment building #3, and
 - c. Large lot south of proposed apartment building #2

New sidewalks in these areas may be necessary.

- 12. Provide proof of sight distance availability for vehicles traveling around proposed central mail bump outs and accessible paths to the mailboxes.
- 13. Remove 'interior/landscape' circle shown at emergency access area off Fair Street.
- 14. All lighting within public right of way must meet city standards.
- 15. Additional comments may follow upon review of the plan re-submission(s) for the proposed land development plan. If you have any questions concerning the Traffic and lighting comments, please contact Mr. Varughese at Nelson. Varughese@allentownpa.gov.

Based on the number and content of these comments, we reserve the right to add additional comments in future submissions.

Zoning 610-437-7630:

- 1. Plans unsatisfactory as submitted. Insufficient information to complete Zoning review.
- 2. Multiple front yard setbacks. At least a couple look like they should be side yards and not front yards.
- 3. Calculation of Slope Disturbance not provided. Provide calculations.
 - a. § 660-63 Development standards for steep slopes. E. Standards and criteria for applications. The following shall apply whenever areas of steep slopes are proposed for development or disturbance. (1) In areas with 25% to 35% slope, no more than 25% of the total of such areas shall be altered, regraded, cleared, built upon or otherwise altered. (2) In areas of 35% slope or greater, no area shall be altered, regraded, cleared, built upon or otherwise altered
- 4. Retaining wall heights not provided. Provide heights. Are proposed retaining walls being tiered for slope?
 - a. § 660-38E Retaining wall. The provisions of this subsection shall not apply to a retaining wall of up to eight feet in height that is necessary to hold back slopes or the wall of a building in a location permitted by this chapter. Also see § 660-38A below.
 - b. § 660-63E(13) When terraces or retaining walls are utilized to cope with steep slopes, the maximum vertical drop per terrace shall be five feet.
- 5. Fence proposed within required minimum front yard. What type of fence is proposed?
 - a. § 660-38A Residential districts. (1) Within the required minimum front yard the following shall apply: (a) A maximum height of six feet shall apply to any fence that has a maximum ratio of solid to open areas of 1:1 (such as a picket, split rail or wrought iron fence); and (b) A maximum height of four feet shall apply to any wall or a fence that does not have a maximum ratio of solid to open areas of 1:1. (c) On a corner lot, within the required setback of the second front yard, a maximum height of six feet shall apply. (2) Outside of the required minimum front yard or second front yard, any wall or fence shall have a maximum height of eight feet. (3) Any wall shall be constructed of brick or other masonry with a finished appearance.
- 6. Insufficient bicycle parking. (Variance)
 - a. § 660-73W(2) If a lot would contain 20 or more new apartment dwellings or 20,000 square feet or more of new building floor area, then such bicycle

facilities shall be required. In such case, the hitch(s), rack(s) or locker(s) may be limited to residents or employees on the lot.

- 7. Angle of horizontal not provided. Provide angle of horizontal.
 - a. § 660-84A(26)(a) Location of buildings. The distance between multifamily dwelling unit buildings on the same lot shall not be less than 20 feet. No interior yards, as such, shall be required but all buildings shall be so located in relation one to another that the angle of horizontal from the sill of the lowest window in the habitable area in one building to the highest point of another building, excluding towers, chimneys and similar fixtures, does not exceed 45°. Where possible, the design layout of dwelling structures shall be such that the front of one structure does not face the rear of another.
- 8. Insufficient pedestrian walks. (Variance)
 - a. § 660-84A(26)(f)[3] Pedestrian walks shall be not less than four feet in width and shall be provided wherever normal pedestrian traffic will occur. All walks shall meet minimum construction standards as specified by the City Engineer.
- 9. Are new telephone and electric service utilities proposed to be underground?
 - a. § 660-84A(26)(f)[5] All new telephone and electric service utilities shall be underground in all new multifamily developments.
- 10. Parking lot lighting not shielded from neighboring property. (Variance)
 - a. § 660-84A(26)(f)[9] Interior development roads, parking areas, dwelling entranceways and pedestrian walks shall be provided with sufficient illumination to minimize hazards to pedestrians and vehicles utilizing the same and shall, where necessary, be shielded to avoid disturbing glares to occupants of buildings. Lighting shall be so arranged as to reflect away from adjoining properties.
 - b. § 660-61K Light and glare control. (1) Streetlighting exempted. This section shall not apply to streetlighting that is owned, financed or maintained by the City, state or public utility. (2) Diffused. All light sources, including signs, shall be properly diffused with a translucent or similar cover to prevent the lighting element from being directly visible from streets, public sidewalks, dwellings or adjacent lots. Five or more bare incandescent light bulbs of 40 watts or greater shall not be hung along a public street or an abutting property. (3) Shielding. All light sources, including signs, shall be shielded around the light source and directed and placed to prevent the lighting from creating a nuisance to persons in adjacent dwellings or undeveloped residentially zoned areas, and to prevent the lighting from shining into the eyes of passing motorists.
- 11. Insufficient information to complete review of minimum habitable floor area and facilities, storage space, stairwells, stairways and landings. Zoning review

incomplete until building plan submission is reviewed.

12. Zoning application required. Future signage requires zoning application and plans.

Shade Tree Commission 610-821-4252:

1. Comments will be forthcoming at a later date.

These comments will be reviewed by the Allentown City Planning Commission at their meeting scheduled for Tuesday, September 13, 2022. Following the meeting when all the comments have been addressed, please submit seven (7) sets of revised plans for further review.

Very truly yours,

n2-

Mark Hartney

SITE DATA: OWNER/APPLICANT

SITE ADDRESS:

COTTAGE INVESTORS LP

N/PA/18103 TOTAL SITE AREA: 5.295 AC. OR 236.632 S.F. INSTRUMENT #: 2016027269

ZONING DATA:

R-MH - MEDIUM HIGH DENSITY RESIDENTIAL DISTRICT USE: MULTI-FAMILY DWELLINGS (PERMITTED BY RIGHT)

MINIMUM BUILDING SETBACK: FRONT: SIDE: RFAR:

MAXIMUM BUILDING HEIGHT: 38' OR 3 STORIES MINIMUM AVERAGE LOT AREA PER UNIT: 1,800 S.F.

BUILDING COVERAGE CALCULATIONS

TOTAL LOT AREA = 249,623.73 S.F. OR 5.73 ACRES BUILDING COVERAGE = 52,609.03 S.F. OR 1.207 ACRES

52,609.03 S.F. (BUILDING COVERAGE)/249,623.73 S.F. (TOTAL LOT AREA) = 0.2159 OR 21.07%

IMPERVIOUS COVERAGE CALCULATIONS:

EXISTING TOTAL LOT AREA = 249,623.73 S.F. OR 5.73 ACRES

EXISTING HISTORICAL RUINS IMPERVIOUS (BURIED) IMPERVIOUS AREA = 138.316.83 SF OR 3.175 ACRES

EXISTING SITE IMERVIOUS (TO BE REMOVED)

IMPERVIOUS AREA = 63.163.26 SE OR 1.45 ACRES PROPOSED SITE IMPERVIOUS

PROPOSED SITE IMPERVIOUS IMPERVIOUS AREA = 153,102.22 SF OR 3.515 ACRES

SITE IMPERVIOUS CALCULATIONS

153,102.22 SF(SITE IMPERVIOUS)/249,623.73 SF(TOTAL LOT AREA) = 0.6133 OR 61% IMPERVIOUS COVERAGE (NOTE: DOES NOT INCLUDE ANY HISTORICAL OR EXISTING SITE IMPERVIOUS)

PARKING DATA:

REQUIRED 1.5 SPACES PER UNIT TOTAL NUMBER OF UNITS=138 UNITS

1.5(SPACES PER UNIT) X 138(NUMBER OF UNITS) = 207 PARKING SPACES REQUIRED

203 SPACES PROVIDED DEFICIENT BY 4 SPACES

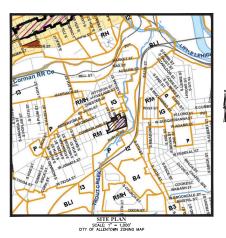
PROJECT SITE HAS A LANTA BUS ROUTE STOP 2 BLOCKS FROM THE PROJECT AREA.

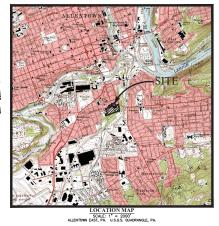
2. INFORMATION ON THESE PLANS DERIVED FROM CITY OF ALLENTOWN

CUMBERLAND APARTMENT COMPLEX

FOR: THE YASIN KHAN 2021 FAMILY TRUST

CITY OF ALLENTOWN LEHIGH COUNTY, PENNSYLVANIA





(C-1) COVER SHEET *
(M-1) COVER SHEET *
(M-1) WITES STREET VACATION PLAN
(EX-1) ENSTREET VACATION PLAN
(SC-1) END STREET VACATION PLAN
(SC-1) END STREET VACATION PLAN
(SC-1) STORMWATER & GRADING PLAN
(U-1) LIAND SCALEDPENT PLAN *
(U-1) LIAND SCALEDPENT PLAN *
(U-1) LIAND SCALEDPENT PLAN
(P-1) PROFILE SHEET (ROAD/UTILITIES)
(P-2) PROFILE SHEET (ROAD/UTILITIES)
(P-3) PROFILE SHEET (ROAD/UTILITIES)
(D-4) DETAIL SHEET
(C-2) DETAIL SHEET
(C-3) DETAIL SHEET
(C-3) PROFILE SHEET (ROAD/UTILITIES)
(C-3) EROSION AND SEDMENTATION CONTROL DETAIL
(SS-2) EROSION AND SEDMENTATION CONTROL PLAN
(SS-2) FROSION AND SEDMENTATION CONTROL PLAN
(SC-3L-2) POST CONSTRUCTION STORMWATER MAINTENA
(PCSM-1) POS SHEET INDEX: EROSION AND SEDIMENTATION CONTROL PLAN EROSION AND SEDIMENTATION CONTROL NOTES EROSION AND SEDIMENTATION CONTROL DETAILS POST CONSTRUCTION STORMWATER MAINTENANCE PLAN (OVERALL)
POST CONSTRUCTION STORMWATER MAINTENANCE PLAN (NOTES)
POST CONSTRUCTION STORMWATER MAINTENANCE PLAN (DETAILS)
POST CONSTRUCTION STORMWATER MAINTENANCE PLAN (DETAILS)

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

1-800-242-1776

Know what's below. Call before you d

1-CALL NO. 20220112214 DATE: 01/12/22

PLANNING COMMISSION APPROVAL:

LEHIGH VALLEY PLANNING COMMISSION

SURVEYOR CERTIFICATION SURVEYOR CERTIFICATION 1. JOSEPH A GRUPE TO DEFER CERTY THAT I AM A PROTESSIONAL LAND SURVEYOR LICENSED AND REGISTERED PROSTREAM PROFESSIONAL PROPERTY THAN THE PROPENSYLVANA, PROFESSIONAL DIGNEES REGISTRATION LAW, ACT OF MAY ASSESSED AS A PROPERTY THAN THE PROPERTY THAN THE PROPERTY THAN THE PROPERTY THAN THE PLAN, PERPARED FOR AN A FILE SURVEY, CORRECTLY THAN THE PLAN, PERPARED FOR AN A FILE SURVEY, CORRECTLY THAN THE PLAN, PERPARED FOR AN A FILE SURVEY, CORRECTLY THAN THE PLAN, PERPARED FOR AN A FILE SURVEY DESCRIPTION OF THE SUBDIVISION AND LAND DEVELOPMENT STORMANCE OF THE SUBDIVISION

JOSEPH A. GRUVER, PLS # SU075242 DATE

BENCHMARK CIVIL ENGINEERING SERVICES, INC. 1727 JONATHAN STREET ALLENTOWN, PA 18104 610-776-6700

BERNARD M. TELATOVICH, P.E. #055968E DATE BENCHMARK CIVIL ENGINEERING SERVICES, INC.

CERTIFICATION OF OWNER OF RECORD AND DEDICATION

I (WE), THE UNDERSIGNED, BEING THE OWNER(S) IN PEACEFUL POSSESSION OF THE LAND HERIN PLATTED AND BEING THAT THERE ARE NO SUITS PENDING AFFECTION THE TILLE OF THE SAME, DO HERREY ADOPT THIS PLAN OF PROPERTY STUATED ON THEE CITY OF ALLENTOWN, LEHOH COUNTY PENNSTLYAMIA, (AND DEDICATED TO THE USE OF THE PUBLIC PURPOSES SHOWN HEREON).

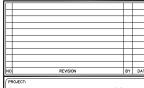
THE FOREGOING ADOPTION (AND DEDICATION) IS MADE BY ME

NOTARY'S CERTIFICATION

OWN THIS, THE DAY OF 2015 THE UNDERSONED ON THIS, THE CONTROL OF THE UNDERSONED OF THE UNDERSONED ON T

IN WITNESS WHEREOF, I HEREUNTO SET MY HAND AND OFFICIAL SEALS

NOTARY PUBLIC



CUMBERLAND APARTMENT COMPLEX CITY OF ALLENTOWN, WARD 12

THE YASIN KHAN 2021 FAMILY TRUST

1146 S. CEDAR CREST BLVD.

Benchmark 1727 JONATHAN STREET ALLENTOWN, PA 18104 610.776.6700 610.776.1190 FAX www.bencivil.com

 CIVIL ENGINEERING • TRAFFIC ENGINEERING • SURVEYING COVER PLAN

PLAN DATE: 08/16/22 DWG. NO. SCALE: AS NOTED

DESIGN: PAS DRAWN: JDG

DD F.

PROOF OF RECORDING

PLAN RECORDED IN THE OFFICE OF DEEDS OF LEHIGH COUNTY, PENNSYLVANIA IN AS DOCUMENT

ON THE DAY OF 20

 $\frac{\text{GENERAL NOTES}}{\text{1-TOPOGRAPHIC INFORMATION SHOWN IS BASED ON A FIELD SURVEY}.}$ TOPOGRAPHIC INFORMATION CONCERNING UNDERGROUND UTILITIES HAVE BEEN COMPILED FROM OBSERVABLE FIELD MEASUREMENTS AND EXISTING MUNICIPAL DATUM, PRIOR TO ANY EXCAVATIONS, UNDERGROUND UTILITIES MUST BE FIELD WIFEIED BY CALLING THE PA. 1 CALL SYSTEM: 1-800-242-1778 3. SUBSURFACE, ENVIRONMENTAL, GEOLOGICAL, AND ARCHEOLOGICAL CONDITIONS WIRE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY, NO STATEMENT IS MADE CONDERNOR THE EXSTRECT OF UNDERGROUND OR OVERHEAD CONTINUESS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS TRACE.

THIS PARCEL IS SUBJECT TO ANY AND ALL RECORDED (AND POSSIBLY UNRECORDED) EASEMENTS, RESTRICTIONS, AND COVENANTS.

5. THESE PLANS WERE PREPARED IN CONFORMANCE WITH THE CURRENT STANDARDS, SPECIFICATIONS AND ORDINANCES OF CITY OF ALLENTOWN IS IN ACCIDENCE WITH DITY OF ALLETTION ZONNIC GEORGICE SECTION 1311-06, A TRANSMAN PARK, SOME, IN GOADED MES SINK, IN EXPT FIRE OF SIGHT OF SINK THE SECTION OF SINK TO SINK THE SECTION OF SINK THE SINK

7. ALL MISSING PROPERTY CORNERS SHALL BE SET PRIOR TO FINAL SITE CONSTRUCTION.

8. FROM A FIELD INVESTIGATION AND FROM REVIEWING BOTH THE SOILS INFORMATION AND THE NATIONAL WETLANDS INVESTORY MAPS; THERE DOES NOT APPEAR TO BE ANY WETLANDS PRESENT ON SITE. 9. IN ACCORDANCE WITH SECTION 165—62.G.(2) OF THE CITY OF ALLENTOWN SUBCINISION AND LAND DEVELOPMENT ORDINANCE: THE APPLICANT AGREES TO PAY A CASH CONTRIBUTION; IN LIEU OF LAND; FOR THEIR PORTION OF THE RECREATION FEE WHICH IS REQUIRED.

10. BOUNDARY INFORMATION SHOWN ON THIS PLAN HAS BEEN COMPILED FROM INFORMATION BASED ON RECORDED DEEDS ON FILE AT THE LEHIGH COUNTY CONSTRUCTOR

11. ALL CONSTRUCTION OF STORM SEMERAGE SYSTEMS AND ROADS ARE TO BE IN ACCORDANCE WITH THE CITY SPECIFICATIONS AND STANDARDS FOR

12. NO ROCK OUT CROPS, STONE FIELDS AND/OR SINCHOLES EXIST ON THIS SITE.

14. A KNOX BOX IS REQUIRED.

16. THERE ARE NO BUILDINGS LOCATED ON THIS SITE OVER AD YEARS OLD. 17. THE PROPOSED BUILDING EXTERIOR IS TO BE FINISHED WITH MASONRY OR CONCRETE.

11. ALL CONSTRUCTION OF STORM SEWERAGE SYSTEMS AND ROADS ARE TO BE IN ACCORDANCE WITH THE TOWNSHIP SPECIFICATIONS AND STANDARDS FOR CONSTRUCTION.

12. BEFORE ANY DRIVEWAY ACCESS IS PERMITTED TO A STATE HIGHWAY, A PERMIT IS REQUIRED PURSUANT TO SECTION 420 OF THE ACT OF JUNE 1, 1945. ALSO KNOWN AS THE "STATE HIGHWAY LAW".

13. PROPOSED SIGNS SHOWN ON THIS PLAN ARE FOR PLANNING PURPOSES ONLY. THE APPLICANT IS TO SUBMIT TO THE MURICIPAL ZONING OFFICE A SEPARATE APPLICATION FOR SIGN INSTALLATION.

14. ANY PROPOSED FENCES ARE TO BE SETBACK A MINIMUM OF 0.5 FEET FROM THE PROPERTY LINE.

16. THERE IS NO REMAINING LAND ASSOCIATED WITH THIS PLAN. 17 DESIGNATED OPEN SPACE IS NOT DECENDED

18. ALL CITY PERMITS MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION. 19. ALL IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY MUST COMPLY WITH THE CITY OF ALLENTOWN STANDARDS AND SPECIFICATIONS. 20. THE PROPOSED RETURNER WILL DISSON MILL DEPENPHAND, SIGNED MAD SAMILD BY , PROFESSIONAL DIGHESE RECORDED IN THE STATE OF PENNSYLVANA MOS SMALL BE SUBMETED AT THE TIME OF BULDON PENNST APPLICATION TO BE REVIEWED AND APPROVED BY THE CITY'S THRO PARTY REVIEWER.

22. THE OWNER WILL NEED TO COMPLY WITH CITY ORDINANCE #14476 (ACT 167) REGULATIONS.

23. IF REQUIRED, THE DEVELOPER MUST SUBMIT THE AS-BUILT LIGHTING CONSTRUCTION AND ELECTRICAL WIRING DIAGRAMS PLANS TO THE CITY'S TRAFFIC UNIT UPON COMPLETION OF THE PROJECT FOR THE CITY'S FUTUR REFERENCES FOR MAINTENANCE.

CONTRACTOR NOTES

PRIOR TO ANY EXCAVATIONS, UNDERGROUND UTILITIES MUST BE FIELD VERIFIED BY CALLING THE PA ONE-CALL SYSTEM: 1-800-242-1776. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS PRIOR TO THE START OF CONSTRUCTION.

ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED. ALL PROPOSED TRAFFIC SIGNS ARE TO BE PLACED FOUR FEET (10 FEET ALONG A STATE HIGHWAY) BEHIND THE EDGE OF PAVEMENT, UNLESS OTHERWISE

THE CONTRACTOR IS RESPONSIBLE TO VERIFY THAT ALL REQUIRED PERMITS HAVE BEEN RECEIVED BEFORE CONSTRUCTION BEGINS. BEFORE CONSTRUCTION BEGINS, THE CONTRACTOR IS TO VERIFY WITH THE ENGINEER THAT THE CONTRACTOR HAS THE MOST CURRENT SET OF PLANS.

UTILITY NOTES

1. ALL EXISTING PAYING SHALL BE SAW-CUT TO RECEIVE NEW PAYING, UTILITIES, ETC.

2. CONTRACTORS SHALL COORDINATE ALL UTILITY CONNECTIONS WITH RESPECTIVE UTILITY COMPANIES. EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY. 3. ACTUAL LOCATIONS AND DEPTH MUST BE FIELD VERIFIED BEFORE CONSTRUCTION OF NEW UNDERGROUND FACILITIES BEGIN. 4. SEWER FACILITIES SHALL BE IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS SET FORTH BY THE TOWNSHIP AND PENNDOT 5. ALL WATER LINES SHALL HAVE A MINIMUM OF 4 FEET OF COVER BELOW FINAL GRADE.

 THE CONTRACTOR WILL BE REQUIRED TO OBTAIN ALL REQUIRED PERMITS FOR THE INSTALLATION OF THE WATER SERVICE LATERAL AND THE SANITARY SEWER LATERAL CONNECTIONS. 7. A MINIMUM 5 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN THE EXISTING AND NEW SERVICE LATERAL CONNECTION POINTS TO THE DISTING SANITARY SEWER MAIN.

8. ALL GRATES FOR DRAINAGE STRUCTURES SHALL BE NON-ROCKING AND MADE OF STRUCTURAL STEEL PER PENADOT SPECS. 9. ALL PIPES (STORM, SANTARY, WATER) THAT CROSS EACH OTHER WITH LESS THAN 1'-6" CLEARANCE MUST HAVE A REINFORCED CONCRETE ENCASED INTERSECTION.

10. ALL INLETS ARE TO HAVE HEAVY DUTY BICYCLE SAFE GRATES 11. ALL SANITARY SEWERS SHALL BE INSTALLED AT AN ELEVATION DEEP ENOUGH SO AS TO PREVENT PREEZING. 12. ALL SANITARY MANHOLES MUST HAVE MANHOLE RUNGS FOR ACCESS. ALL RIMS AND COVERS MUST BE NON-ROCKING HEAVY DUTY CAST IRON.

13. ALL COMPLETED UTILITY SYSTEMS MUST BE CLEANED, TESTED AND PURCED. IN ACCORDANCE TO NATIONAL AND LOCAL RECURRIENTS. 14. THE ROUTING OF ALL UTILITIES IS SUBJECT TO ADJUSTMENT TO MEET UTILITY COMPANY REQUIREMENTS AND SPECIFICS OF BUILDING COMPARE. NO UTILITY REQUIREMENTS ARE FAULDED, INCESSARIY ADJUSTMENTS SHALL BE MADE AS PART OF THE PREPARATION OF CONSTRUCTION DOCUMENTS.

ALL PROPOSED STORMWATER STRUCTURES ARE TO HAVE A 12".
 THICK SUBBASE MATERIAL COMPACTED IN 4" LIFTS AS PER PENNDOT PUBLICATION 408, SECTION 350,2

16. ALL UTILITIES ARE TO BE CONSTRUCTED UNDERGROUND EXCEPT WHERE OTHERWISE DELINEATED ON PLAN. 17. UTILITIES AND LIGHTING SHALL BE PERFORMED BY THE RESPECTIVE PRIME CONTRACTOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LIGHTING AND UTILITY DETAILS.

18. THE CONTRACTOR SHALL PROVIDE, TO THE TOWNSHIP ENGINEER, SHOP DRAWNOS SHALL UTILITY INSTALLATION WORK, SAID SHOP DRAWNOS SHALL BE APPROVED BY THE TOWNSHIP ENGINEER PRIOR TO WORK CENTERLY.

19. SANITARY SEWER LINES ARE TO BE BEDDED IN IN 3/4" CLEAN STONE (DENADOT 429) 20. ALL STORM STRUCTURES ARE TO HAVE POURED CONCRETE FLOW CHANNELS.

22. DROP STRUCTURES SHALL BE UTILIZED WHEREVER THERE IS GREATER THAN 24° FALL BETWEEN INLET AND OUTLET ENTERING DEVALUATIONS.

23. STORM LINES SHALL HAVE A MAXIMUM DISTANCE BETWEEN STRUCTURES OF 400 FEET. STRUCTURES SHALL BE LOCATED AT ALL STORM SEWER LINE CHANGES IN PIPE SIZE, DIRECTION, GRADE OR

24. ALL CONCRETE STORM SEWER PIPES ARE TO BE REINFORCED AND HAVE A MINIMUM SIZE OF 016" (LD.) AND HAVE WATER TIGHT "O"-RING CASKET. JOINTS.

25. LIMIT ADVANCE CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OP PIPE INSTALLATION THAT CAN RE COMPLETED IN ONE DAY.

28. WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE PLUG CONSTRUCTION AND BACKFILLING WILL BE SELF CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND 27. ALL SOIL EXCAVATED FROM THE TRENCH WILL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.

28. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFRLING THAT CAN BE COMPLETED IN THE SAME DAY.

29. WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING BEFORE PIPE PLACEMENT AND/OR BACKYLLING BIGINS. WATER REMOVED FROM THE TRENCH SHALL BE PUMPIED THROUGH A PLITRATION DEVICE.

THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND IMMEDIATRY STABILITY.

SIL NAY NO ALL PROPOSED UTLITY CONNECTION(S) TO ANY BRADNESS, DESTINA OF REPORTED INCLUDING BUT NOT LIBERTO TO RECOGNIZIONE LIBERS SOPPLICATE AND STREET, BUTCHER, CAREL, DAY TELES ROOF LIBERTO SERVICE AND STREET, BUTCHER, CAREL ON THE TELES AND ANY OTHER THAN BRAT HAT ANY SHOW LITTLY CONNECTION POINTS AND ANY OTHER THAN BRAT HAT ANY SHOW LITTLY CONNECTION POINTS AND ENGLISHMENT OF ANY STREET, BUTCHER STREET, BU

32. ALL PROPOSED STORM SEWER LINES ARE TO BE INSTALLED AS PER PENINDOT PUBLICATIONS 408 AND 72.

33. WHERE ANY PROPOSED UILD'I LINE WITH A FIXED ELEVATION CHOISES ANY EDISTING UILDI'Y LINE, THE CONTRACTOR OR RESPONSIBLE TO VERFY THE ELEVATION AND LOCATION OF THE EDISTING UILDI'Y LINE, PROOF TO ANY WORK BEING STARTED ON THE PROPOSED UILD'I LINE, FAY COMPLICE TRETHER THE UILDIES AND FOUND OR MINICIPATED, THAS SHOULD BE REPORTED TO THE DEGREER PRIOR TO AMY CONSTRUCTION BROWN STARTED ON THE PROPOSED UILD'ILLY LINE.

34. ALL EXCAVATIONS, TRENCHING AND SHORING SHALL COMPLY WITH THE REQUIREMENTS OF THE US DEPARTMENT OF LABOR OCCUPATIONAL AND SAFETY HEAT IN ADMINISTRATION PHIS ICATION TYCAVATION AND TRENCHING OPERATIONS" INTERPRETATION (OSHA 2079). SUBPART P, VOLUME II, OF THE CURRENT EDITION AND ANY AMENDMENTS THERETC 35. ALL FIRE SUPPRESSION LINE SIZES ARE TO BE VERFIED WITH THE SPRINGLER CONTRACTOR PRIOR TO CONSTRUCTION. 36. THE CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED UTILITY FRAMES, COVERS, MANHOLES, VALVE BOXES, ETC., TO BE FLUSH WITH THE PROPOSED SURFACE ELEVATIONS. PROTECTIVE COVENANTS:

IN ACCIONATE HIGH CITY OF ALLINTONS ZONING ORDINANCE SECTION 1311.08, A TRANSCALAR MER SHALL BE CRADED AND SHALL BE KEPT FIRE OF SONIT OSSIMICATIONS SETIEDS 30 IN SECS. AND CROSS SHOELD SHOWS SHOELD SHOELD

STORMWATER OPERATION AND MAINTENANCE NOTE THIS INCLUDES AL STORWWATER BMP'S AS OUTLINED IN THE THE STORMWATER MANAGEMENT REPORT.

THE FOLLOWING STORMWATER MAINTENANCE NOTES AND RESPONSIBILITIES APPLY TO ON-SITE STORMWATER FACILITIES ONLY.

THE OWNER(S) FOR THEMSELVES, THOR HORS, EXECUTOR, ADMINISTRATORS AND SUCCESSORS AND ASSENS DO HEREBY COVENIANT TO BIRD THEMSELVES THER HORS, EXECUTIORS, ADMINISTRATORS, SUCCESSORS AND ASSIGNATION THE PLAN TO FAITHFULLY PERFORM ALL OF THE

RECONSTRUCTION (10 APPRICIAL) DESIGN GRODES AND SPECEFICATIONS) OF ALL PRAINAGE SWALES AND DITENTION BASINS WITHIN AN OWNER'S LOT WHIGH, BECAUSE OF CONSTRUCTION ACTIVITIES, ORACING OR STREPPING OF VEGETATION ON THE OWNER'S LOT, HAS CAUSED DAMAGE TO SAID PUBLIC IMPROVEMENTS.

On the contrib LOT, INS CAUSED DAMANET IS SAN PHILIP CONTRIBUTION OF THE FLAN PROJECT OF THE PRO

3. MEMEVER SEDIMENTATION IS CAUSED BY STRPPING VEGETATION, GRADING OR OTHER EARTHMONNE ACTIVITIES, IT SHALL BE THE RESPONDED FOR THE OWNER(S) TO REMOVE THE SEDIMENTATION FROM ALL THE ADMONSTRATES, DRABAGE SYSTEMS AND WATERCOURSES AND TO REPAIR ANY DAMAGE AT THE OWNER'S EXPENSE.

DAMAGE AT HE UNIGEN'S EMPOSE.

A. IN THE DESCRIPTION THAT THE RECORDED OWNERS) FALS TO PROPERLY MAINTAIN THE FACILITIES WHICH ARE THE RESPONSIBILITY OF THE RECORDED OWNERS) AFTER MONICATION TO SAID OWNERS(S) AFTER MONICATION TO SAID OWNERS(S) AFTER LICTLY, THE COTT IS AUTHORIZED TO ENTER UNDOWNERS OWNERS OF THE COTTY, THE COTT IS AUTHORIZED TO ENTER UNDOWNERS OF PEPETORISM SOLICH MAINTENANCE FROM THE RECORD OWNERS). IN ORDER TO EMPOSE THE RECORDER OF SOLICH OWNERS OF THE RECORD OWNERS OF THE RECORD OWNERS OF THE RECORD OWNERS OF THE RECORD OWNERS.

CURB AND SIDEWALK NOTE: THE OWNER(S) OF THE LOT WILL MAINTAIN THE CURB AND SDEWALK AT NO EXPENSE TO CITY OF ALLENTOWN AND SHALL HOLD CITY OF ALLENTOWN HARMLESS IN THE EVENT OF ANY CLAMS ARISING FROM THE CONSTRUCTION, RECONSTRUCTION OR MAINTENANCE OF THE CLARS AND SDEWALK

BMP INSPECTION NOTE:
THE GINER SHALL MAINTAIN A LOS DETAILING ALL INSPECTIONS AND
MAINTENANCE PREFORMED ON STORMMATTER BMP'S. THE LOG SHALL BE
MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO THE CITY REQULATORS
OFFICIALS AT THE TIME OF THEM PROFECTION.

GRADING NOTES

SINDHING INVOLVES THE PLANS ARE TO BE USED AS CURDINESS THE LALL DETAILS SHOWN ON THE PLANS ARE TO BE USED AS CURDINESS THE BETTER OF THE STANDARDS SHOWN ON THESE PLANS OF THE REQUIREDATE FOR PLANS THE STANDARDS SHOWN OF THE REQUIREDATE THE PLANS THE PLANS OF THE PLANS THE PLANS OF THE REQUIREDATE IN MACHINE THE PLANS OF THE PLANS THE PLANS OF THE P

G. PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL H. COUNTY CONSERVATION DISTRICT REGULATIONS.

I. SEMER AND WATER AUTHORITY REGULATIONS.

J. SITE SPOSED

ALL BOOK SHALL BE LOVE WHITH THE PREPETTY BRANDARY OF THE CONDER, IT IS BECSSARY TO ROOK BETWEN THESE DAGS. THE CONTRACTOR SHALL ACQUIRE ACCOUNT APPROVAL FROM THE OWNER OF THE PROPERTY ON MICH. THE CONTRACTOR MICH AS MESSARY TO MICH. THE CONTRACTOR MICH AND THE PROPERTY CONDER HAS BEEN INFORMED OF THE ENGLOSCHWENT AND THAT PROPERTY CONDER HAS BEEN INFORMED OF THE ENGLOSCHWENT AND THAT PROPERTY CONDER HAS BEEN INFORMED OF THE ENGLOSCHWENT AND THAT PROPERTY CONDERS FOR THE CONTRACTOR TO PROCEED.

PETFORM, WAS SITTLE FUEL HELL CONTRACTOR TO PROCEED.

3. AT COMPLETION OF ROUGH ORDINGS BY THE SITE CONTRACTOR, ALL GRADES
WITHIN MARIAS TO BE LANDSCAPED ("NOLIDING ALL LAWN MARIAS) SHALL BE
SIX MOINES (6") BLOOW THE ESTABLISHED DINNISHED GRADE. THIS IS TO
ACCOMMISCORE THE PLACEMENT OF SIX INCH (6") LAYER OF TOPSOL BY THE
LANDSCAPE CONTRACTOR.

ALL EXCAVATION, FILLING AND COMPACTION OPERATIONS SHALL BE OBSERVED BY A LICENSED SOIL ENGINEER. COMPACT ALL SUBGRADES WITHIN THE BUILDING OR PAYED AREA TO A MININUM OF 95% MAXIMUM DENSITY AS DETERMINED BY ASTIM D-1557.

5. REMOVE ALL UNSUITABLE AND DELETERIOUS MATERIAL AS ENCOUNTERED IN THE FIELD. FIG. TELLS.

8. PRIOR TO FILL OPERATIONS, ALL AREAS WITHIN BULEING AND PAVEMENT INFLUENCE THAT ARE TO RECEIVE FILL SHALL BE PROOFROLED, AND ALL UNSTABLE ANDIAGE. SHALL BE ROMOVED OR STATELZED IN FALCE, AND TENN COMPACIED TO A MENSION OF SOS MANMAN DESIGN TO A MENSION DEPTH OF THE LEG (12) MONES, AS DELERANDED BY ASTILL DESIGN TO A MENSION DEPTH OF

7. IMPORTED FILL FROM OFF-SITE BORROW PITS MUST BE MATERIAL SIMILAR IN CONTENT TO NATIVE MATERIAL, ALL IMPORTED FILL MATERIAL NUST BE TESTED

9. FILL DENSITY AND SOIL BEARING CAPACITY TESTS SHALL BE PERFORMED BY A LICENSED SOILS ENGINEER.

11. PROVIDE ALL SOIL EROSION AND SEXIMENTATION CONTROL AS REQUIRED BY LOCAL AUTHORITIES AND PRUDENT CONSTRUCTION PRACTICES AS RECESSITATED TO ELIMINATE ALL CONTAINANTED DESCHARGE FROM THE SITE DURING

12. PROVIDE SLOPE STABILIZATION ON ALL SITE SLOPES. STABILIZATION MAY BE BY TURF GRASSES, SOO, VEGETATION, GEOTEXTILE FABRICS OR OTHER MEANS AS REQUIRED BY THE DEGREE OF SLOPE TO BE PROTECTED. 13. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, UTILITY LOCATIONS, AND INVERTS PRIOR TO CONSTRUCTION, ANY CONDITIONS FOUND TO DEFER FROM THOSE SHOWN BY THE DRAWNOS SHALL BE IMMEDIATELY BROUGHT OF THE FROMPER.

14. ADJUST ALL EXISTING AND PROPOSED UTILITY FRAMES, GRATES, MANHOLE COVERS, VALVE BOXES, ETC. TO BE FLUSH WITH THE PROPOSED SURFACE DEVALUES WITHIN THE PROPOSED SURFACE

15. REMOVE AND DISPOSE OF PAVEMENT MATERIALS AT AN APPROVED DISPOSAL SITE. ALL WORK SHALL BE CONPLETED IN ACCORDANCE WITH APPLICABLE 5 TAMADARDS. 16. ALL SNIGHOLES SHALL BE REPARED. ANY NEW SINGHOLES THAT DEVELOP SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER. ALL NON-PAVED AREAS SHALL NOT EXCEED A 2:1 SLOPE (OR THE MAXMUM SLOPE ALLOWED BY ORDINANCE) UNLESS SPECIFICALLY APPROVED BY A LICENSED SOLS ENGINEER. PROMPER SLOPE STABLUZATION AS REQUIRED. 18. NEW PAVEMENT GRADES ARE TO BE FIELD ADJUSTED AT EXISTING PAVEMENT SO THAT GRADES MATCH. JOINTS ARE TO BE BE FLUSH AND SELECT MATCH.

20. ALL EXCAVATION, TRENCHING AND SHORING SHALL COMPLY WITH THE REQUIREMENTS OF THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION PUBLICATION "EXCAVATION AND TRENCHING OPERATIONS". INTERPRETATION (CHIA 2079). SUPPART P, VOLUME III, OF THE CURRENT EDITION AND ANY AMERICANISTS. THERETO.

21. IF APPLICABLE, TOP AND BOTTOM OF WALL SHOTS (TW/BW) ARE THE ELEVATIONS AT FINISH GRADE.

LANDSCAPE NOTES

 THE CONTRACTOR SHALL FURNISH AND PLANT ALL PLANTS SHOWN ON THE DRAWNIGS, AS SPECIFIED, AND IN QUANTITIES INDICATED ON THE PLANT LIST. 2. ALL PLANTS SHALL BE NURSERY GROWN. 3. ALL PLANTS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSDRY STOCK, LATEST EDITION.

A JUL PAINT SHALL BE THREAL OF THEM SPECES OF WEST'T AND GHALL MAKE A MEMBAL AMEN'T FOR MOST HEY SHALL MAKE A STRIMENT SHALL CONTRACT LEADER WITH NO OPEN SPUTIS, FROST GRADES OR HANK ARRANGES ORATER THAN Y. IN DAMETER, THEY SHALL BE HARTH AND MODERNEY OF CHARGE SHALL SHALL WE SHALL SHALL WE SHALL SHALL WE SHALL SHALL WE SHALL SH

5. THE CONTRACTOR SHALL SUBMIT A LIST OF THE NURSERY SOURCE FOR ALL PLANT MATERIALS. THE OWNER RESERVES THE RIGHT TO REQUIRE THE TAGGING OF ALL TREES PRIOR TO DIGGING, FOR INSTALLATION ON THIS

7. MEASUREMENT: DIMENSIONS OF TREES AND SHRUBS SHALL CONFORM TO THE AMERICAN STANDARD FOR MURSERY STOCK LATEST FUTDON. 8. SIZE: ALL PLANTS SHALL CONFORM TO THE MEASUREMENT SPECIFIED ON THE PLANT LIST.

S. BALLED AND BURLAPPED PLANTS SHALL BE DUG WITH FIRM NATURAL BALLS OF EARTH, OF DIAMETER AND DEPTH TO INCLUDE MOST OF THE RIBROUS ROOTS, CONTINUER GROWN STOCK SHALL HAVE BEEN GROWN IN A CONTINUER HOLD ITS SOLL TOOLTHOK FIRM AND WINGLE. NO PLANTS SHALL BEEL COSE IN THE CONTINUER.

10. ROOT BALLS OF ALL PLANTS SHALL BE ADEQUATELY PROTECTED AT ALL TIMES FROM SUN AND DRYING WINDS OR FROST. 11. OWNER OR HIS REPRESENTATIVE SHALL BE NOTIFIED PRIOR TO BEGINNING PLANTING OPERATIONS.

12. PLANTS WITH BROKEN ROOT BALLS OR EXCESSIVE DAMAGE TO THE CROWN OR SCRAPED TRUNK BARK SHALL BE REPLACED PRIOR TO PLANTING. 13. ALL TREES SHALL BE STAKED AND GUYED ACCORDING TO ACCEPTED INDUSTRY PRACTICE.

14. ALL TREES SHALL BE WRAPPED ONLY AFTER THEY ARE INSPECTED BY THE LANDSCAPE ARCHITECT. APPROVED TREE WRAP SHALL BE INSTALLED ACCORDING TO ACCOPTED INQUISTRY PRACTICE.

15. EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NURSERWIEN STANDARDS TO PRESERVE THE NATURAL CHARACTER OF THE FLANT. ALL DEAD WOOD OR SUCKERS AND ALL BROKEN OR BACLY BRUISED BRANCHES SHALL BE RELIVED.

16. MULCH FOR TREES, SHRUBS AND GROUND COVER SHALL BE FINLY SHEDDED OAK BARK, DARK BROWN IN OOLDS. ADED AT LEAST ONE YEAR, AND CLEAN AND FREE OF WESTES, PRE-EMERGENT WEED KILLER SHALL BE "INSPLAN" OR APPROVED EQUAL APPLY WEED KILLER TO TOPSOLL PRIOR TO MULCHNO EDE PLANTINGS. 17. TREES IN LEAF WHEN PLANTED SHALL BE TREATED WITH ANTI-DESICANT SUCH AS WILT-PROOF.

SUCH AS WILL-PROOF.

IE PEPPARATOR PEARATING SOL.

BEFORE MEMORY CLEAN TOPSOL OF

HAMBUL OR TOOL TO FAMT GROWN. SOL (RACKFUL) FOR TEXTS, SHEMEN

HAMBUL OR TOOL TO FAMT GROWN. SOL (RACKFUL) FOR TEXTS, SHEMEN

AND GOODING COVER SHALL BE A MEXTILE BY VOLUME OF THE FELLOWING

COMMAND LATTER. ADD 10-10-10 FERTILEZE TO THE ABOVE MIXTURE AT SOLUME

THE RATES SPECTED BY THE MANAFACTURED.

THE WARRANT TREES AND SHRUBS FOR A PERIOD OF ONE YEAR AFTER WRITTEN DATE OF ACCEPTANCE BY THE LANDSCAPE ARCHITECT AND/OR CONSTRUCTION MANAGES AGAINST CUPETTS NALLIDING GEATH AND UNSATISFACTORY GROWTH.

IMPEDIATELY. REPLACEMENTS SHALL BE PLACED UNDER WARRANTY FOR AN ADDITIONAL 1 VEAP FORCE.

20. ALL PLANTING SHALL BE AT THE LOCATIONS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT THE CORRECT GRADES, ALIGNMENT, AND TO THE INDICATED LAYOUT OF PLANTING BEDS.

21. CONDITIONS DETRIMENTAL TO PLANTS: THE CONTRACTOR SHALL NOTIFY THE PROJECT ROPRESSION THE IN MISTING OF ALL SOLL ON DAMAGE OF PLANTS. HE SHALL STARE THE CONDITIONS AND SHIMIT A PROPOSAL FOR CORRECTING THE CONDITIONS, INCLIDING ANY CHANGE IN COST FOR REVIEW AND ACCOUNTED BY THE PROJECT REPRESENTATION.

22. MINOR ADJUSTMENTS TO TREE LOCATION MAY BE NECESSARY DUE TO FIELD CONDITIONS AND FINAL ORADING. THE CONTRACTOR SHALL NOTIFY THE OWNER IF MAJOR ADJUSTMENTS ARE REQUIRED. 23. BEFORE ANY TREE REMOVAL EARTHWORK OR CONSTRUCTION SHALL COMMENCE, FENCING OR GUARDS SHALL BE PLACED WHERE INDICATED ON THE

24. THE CONTRACTOR SHALL REMOVE ALL TREE WRAP AND GUYING (6) MONTHS AFTER THE OWNER'S ACCEPTANCE OF THE COMPLETED PLANTING WIREY.

25. TREE & SHRUB MASSINGS SHALL BE ENCOMPASSED BY ONE LARGER MULCHED BED.

27. THE LANDSCAPE CONTRACTOR SHALL FURNISH, DELIVER, MAINTAIN AND INSTALL THE PLANT MATERIAL AND LAWN AS SHOWN ON THE PLANS IN A MAINTER WHICH PRODUCES A PROTESSIONAL FINISHED PRODUCT ACCORDING THE SECTION OF THE PRODUCT ACCORDING THE SECTION OF THE PRODUCT ACCORDING THE SECTION OF T

LCA NOTES

J. ALL WATER SYSTEM CONSTRUCTION SHALL CONFORM TO THE "GENERAL SPECIFICATIONS FOR WATER SYSTEM CONSTRUCTION" OF LEHIGH COUNTY AUTHORITY (LCA) DATED JUNE 1976, OR AS AMERICED.

ZWATER SYSTEM CONSTRUCTION IS SUBJECT TO INSPECTION BY LCA.
CONTACT LCA AT (610) 398-2503 TO SCHEDULE AN INSPECTION A
MINIMAN OF THREE (3) BUSINESS DAYS PRIOR TO THE START OF WORK
ONLY LCA PERSONNEL SHALL OPERATE VALVES IN THE WATER SYSTEM. ONLY LOW PRESENCES, SHALL OWNERS IN THE WATER SYSTEM.

JUST AND AND REPORT WATER LOW FOR STORM CREEKE, WATER LOW FOR STORM CREEKE, WATER LOW FOR SHAPE OF STORM CREEKE, WATER LOW FOR SHAPE OF STORM CREEKE, WATER LOW FOR SHAPE OF WHERE LOA APPROVES AN EXCIPTION TO THE FOR A CROSSING OF A

4.A 10" MINIMUM HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER LINES AND TREE PLANTING. BALLY LURES AND TREE PLANTING.

5.ALL WATER LINES SHALL HAVE A MINIMUM OF 4' OF COVER.

6.ALL WATER LINES SHALL BE DUCTILE IRON PIPE CLASS 52, UNLESS OTHERWISE NOTED.

7. VALVES SHALL BE SET 5' FROM A FITTING. 8.MEGALUGS SHALL BE USED TO RESTRAIN MECHANICAL JOINT FITTINGS AND FIELD LOCK GASKETS TO RESTRAIN PUSH-ON JOINTS WITHIN 40' OF BOTH HORIZONTAL AND VERTICAL BENDS IN WATER LINES 12" IN DIAMETER AND SMALLEY.

DUMETER AND SMALLER,
SHOW AND LABEL THE EXISTING SURFACE GRADE AT THE WATER LINE
LOCATION, THE PROPOSED SURFACE GRADE AT THE WATER LINE
LOCATION, AND THE EXISTING ROAD CENTERINE GRADE. SHOW THE
MATER LINE WITH A UNMAMM OF 4 FEET OF COVER FROM WHICHEVER
THESE GRADES MILL RESULT IN A GREATER DEPTH OF THE WATER LINE.

THESE MONCES MILE PESSTAND WATER SYSTEM MAY NOT PASS A PRESSURE WATER SYSTEM MAY NOT PASS A PRESSURE WATER SYSTEM AND THE PASS A PRESSURE WATER UNE TO THE PESSTAND SYSTEM AND THE PRESSURE TEST FALS. LOC MAY, AT THE SPINOU, RECORD FOR CONTROL OF THE PASS AND THE PASSES THE PESSAURE TEST.

THE PROJUBLE TO WATER MAIN THAT CAN BE ISOLATED BY VALVING ARE TESTED SIMULTANEOUSLY, THER TOTAL LEAKAGE WILL BE BASED ON THE ALCOMABLE LEAKAGE OF THE SHORTEST SEGMENT OF MAIN THAT CAN BE ISOLATED. WATER SYSTEM FACILITIES SHALL UNDERGO HYDROSTATIC PRESSURE TESTING AND DISINFECTION IN ACCORDANCE WITH THE LATEST AWMA STANDARDS.

 IF POLYETHYLENE (PE) TUBING IS SUBSTITUTED FOR K-COPPER IN WATER SERVICE LINES OUTSDE OF THE ROAD RIGHT-OF-WAY OR LCA EASTMENT. THEN THE NEXT LARGER SIZE OF PE TUBING SHALL BE USE 14. A METER PIT WILL BE REQUIRED ON ANY SERVICE LINE WHERE THE DISTANCE FROM THE CURB STOP TO THE POINT WHERE THE METER WOULD BE SET INSIDE OF THE BULLDING MILL BE ORGATER THAN 100°. 16. INSTALL A 2°X2′ KNOCKOUT BOX AROUND A CURB BOX IN A SDEWARK.

 WHERE A SIDEWALK ABUTS CURBING, INSTALL FIRE HYDRANT WITH PUMPER NOZZLE FLUSH WITH THE BACK OF CURB. INSTALL A 4'X4' KNOCKOUT BOX AROUND THE FIRE HYDRANT. 16. A WATER METER AND BACKFLOW PREVENTER SHALL BE INSTALLED INSDE OF EACH DWELLING UNIT IN ACCORDANCE WITH THE LCA RESIDENTIAL WATER METER INSTALLATION POLICY. (REVISE AS NEEDED.

RESOURCES WHITE MEST SETTING SYMMETRY (REVER AS ORGANICAL SET INSTALLED IN ELACT DELIVER UNTIl WHITE SETVICE PROSPER MELL DESCRIP DO FIS. IT SHEARING THE SETTING SHE WILL DESCRIP DO FIS. IT SHEARING THE SETTING BLOGG 405 SHALL HAVE A PRIV. (UST AFFICTED LOTS.) (REVISE AS NEEDED.)

B. A MATER PRESSURE BOOSTES SYSTEM SHALL BE INSTALLED AFTER THE ARCHAIN PREVAITER THE ARCHAIN PREVAITER ADECUATE PRESSURES CANNOT BE PROVIDED AT THE MEDICAL PRESSURES CANNOT BE PROVIDED AT THE MERIT SETTING.

PHOYACED AT THE METER SETTING. SPRICES SHALL BE INSTILLED WITH A 19. SERRE LITERALS AND WRITE SERVICES SHALL BE INSTILLED WITH A TORNHOUSE REASON AND A MINIMAN OF OF OF HEROSTOCKI, CLERANCE BETWEN THEM IN SHALL FAMILY AREAS, AND WITH THE WATER SERVICE A MINIMAN OF IN 4000. THE WORLD LITERAL WITH SERVICE AND AND SERVICES AND A MINIMAN OF LITERAL WITH SERVICE AND SERVER LITERALS IN ACCORDANCE WITH THE APPLICABLE LOCAL MAD SERVER LITERALS AND SERVER LITERALS A

20. SERVICE CONNECTION TAPS SHALL NOT BE MADE DIRECTLY OPPOSITE EACH OTHER, BUT SHALL BE STAGGERED WITH AT LEAST A 1' OFFSET ALONG A WATER MAIN.

CUMBERLAND APARTMENT COMPLEX

THE YASIN KHAN 2021 FAMILY TRUST 1146 S. CEDAR CREST BLVD.

ALLENTOWN, PA 18103 *Bonchmark

DD F.

1727 JONATHAN STREET ALLENTOWN, PA 18104 610.776.6700 610.776.1190 FAX www.bencivil.com CIVIL ENGINEERING • TRAFFIC ENGINEERING • SURVEYING

NOTES PLAN

DESIGN: PAS DRAWN: JDG

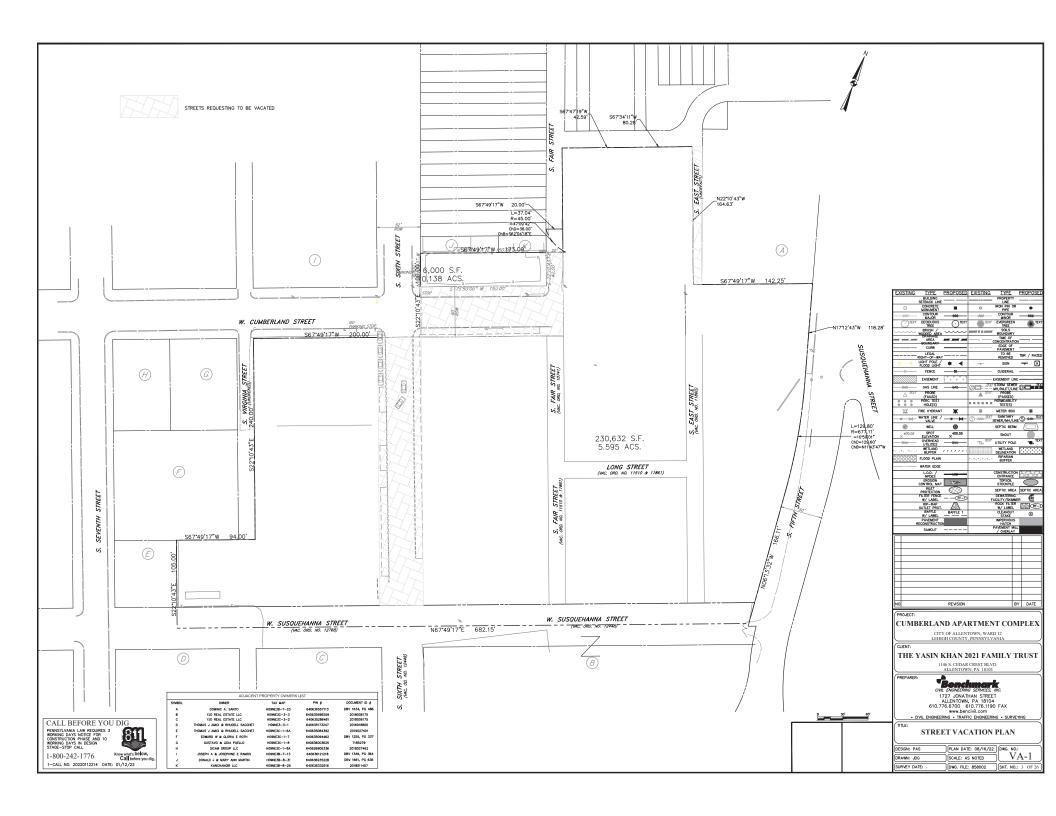
PLAN DATE: 08/16/22 DWG. NO SCALE: AS NOTED

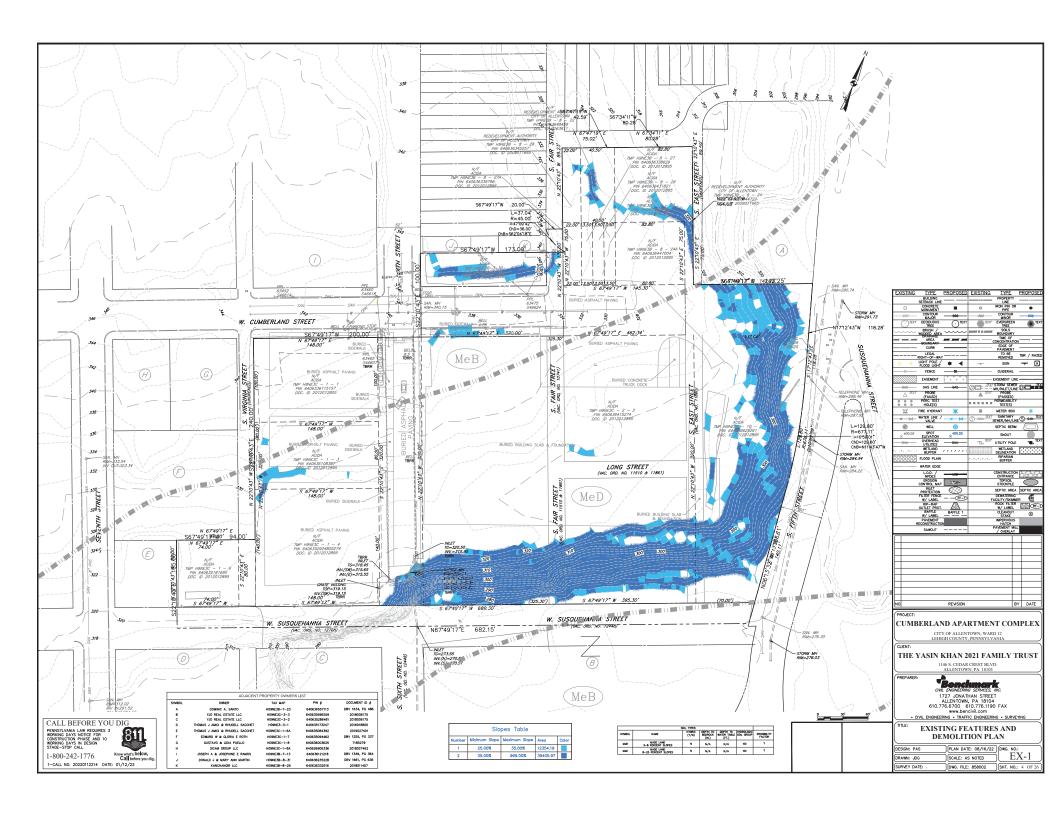
CALL BEFORE YOU DIG PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE-STOP CALL 811

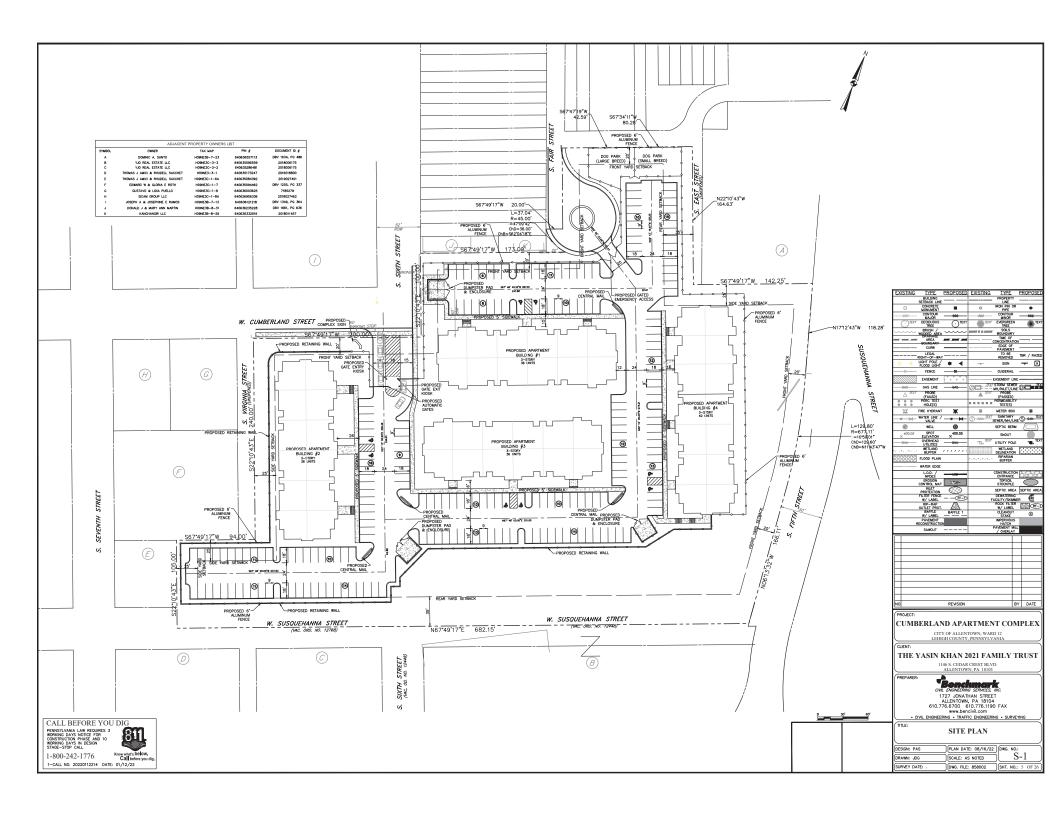
1-800-242-1776

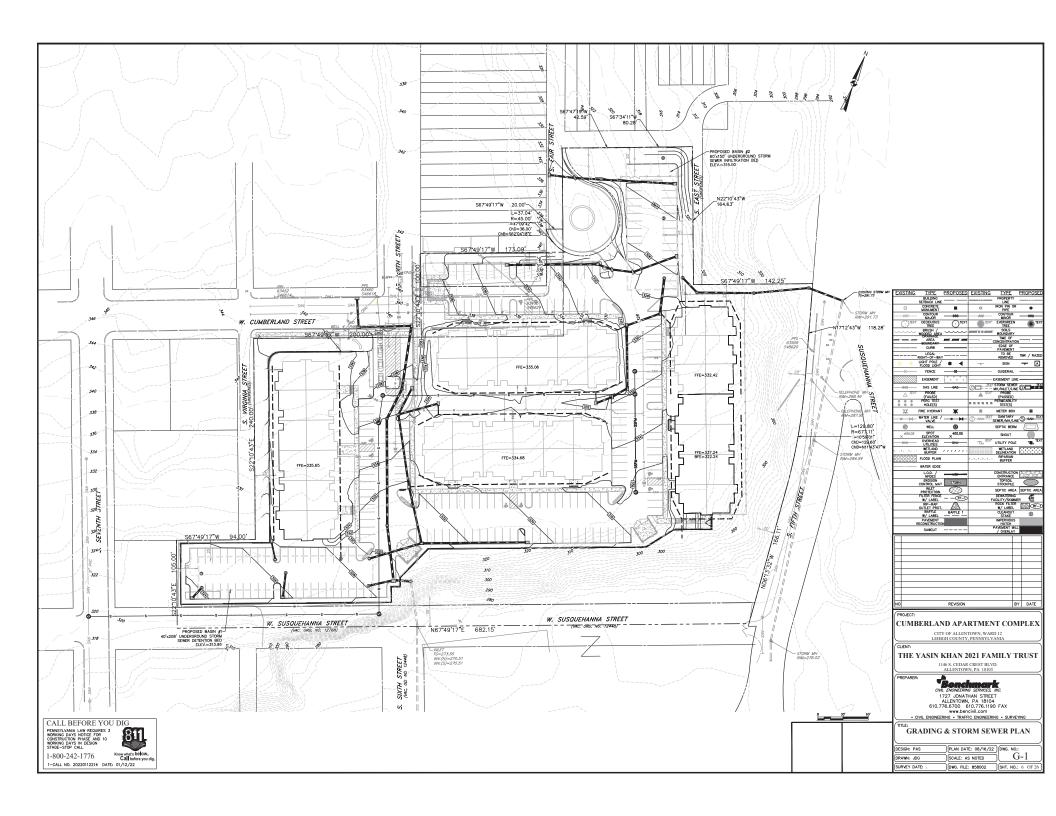
1-CALL NO. 20220112214 DATE: 01/12/22

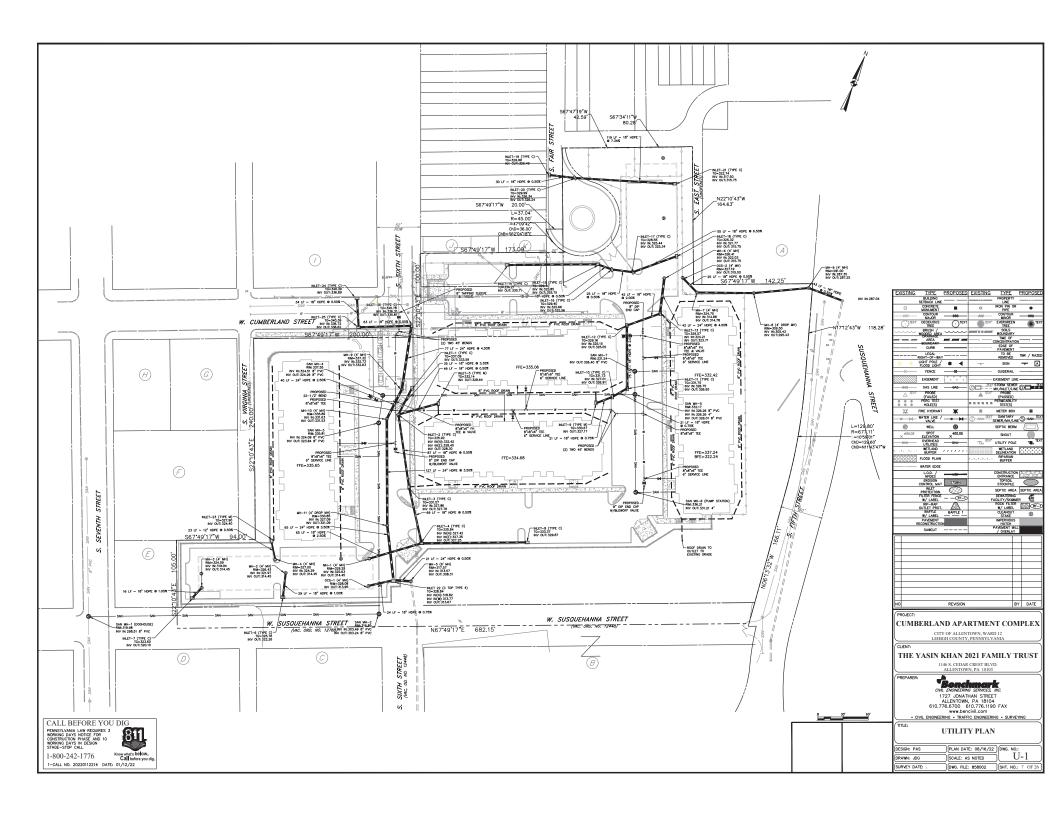
Know what's below. Call before you

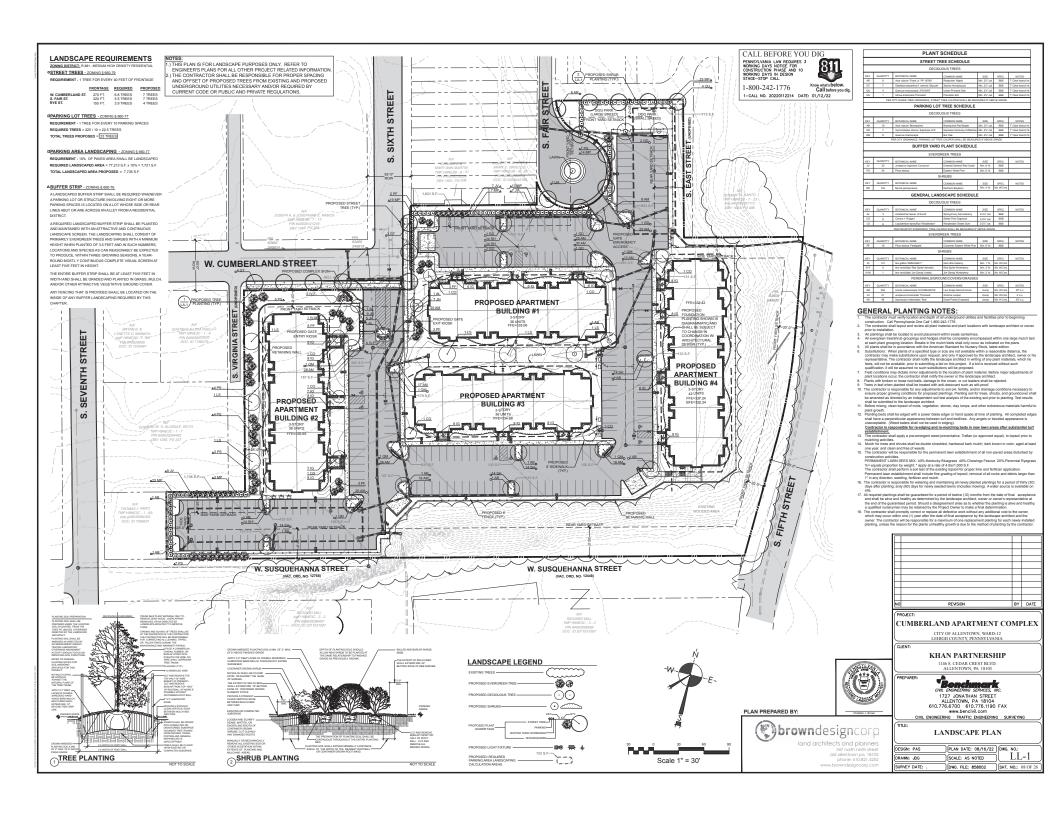


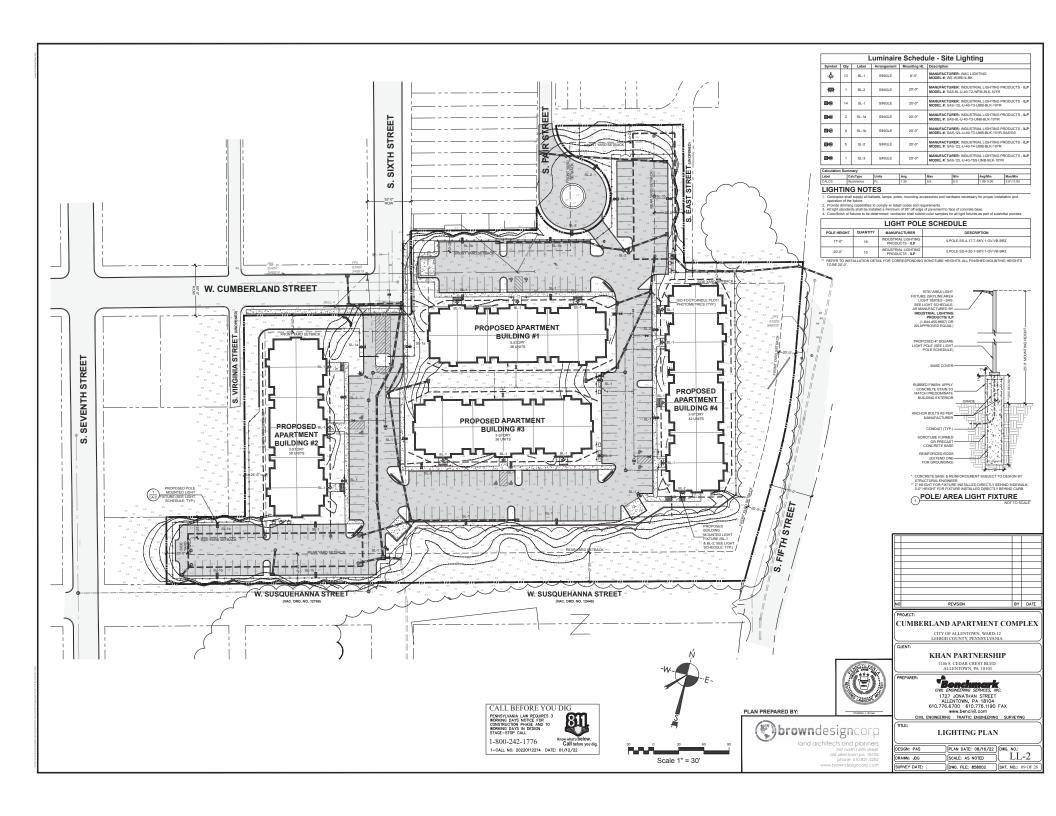


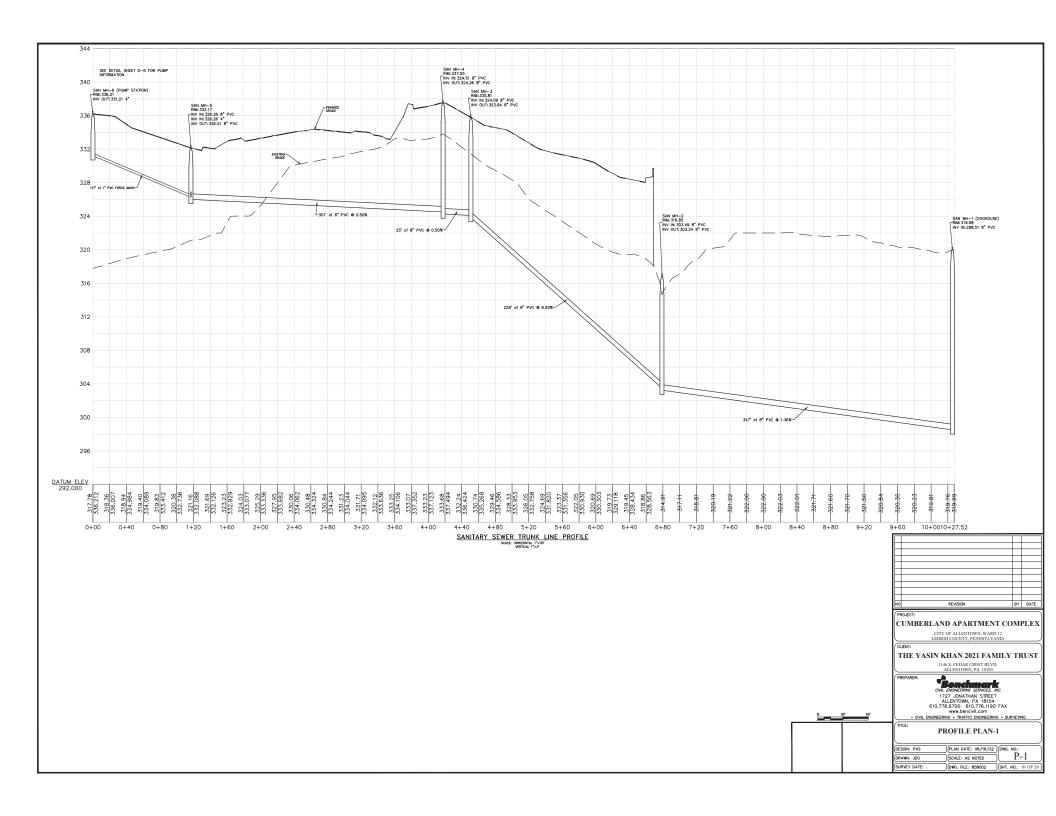


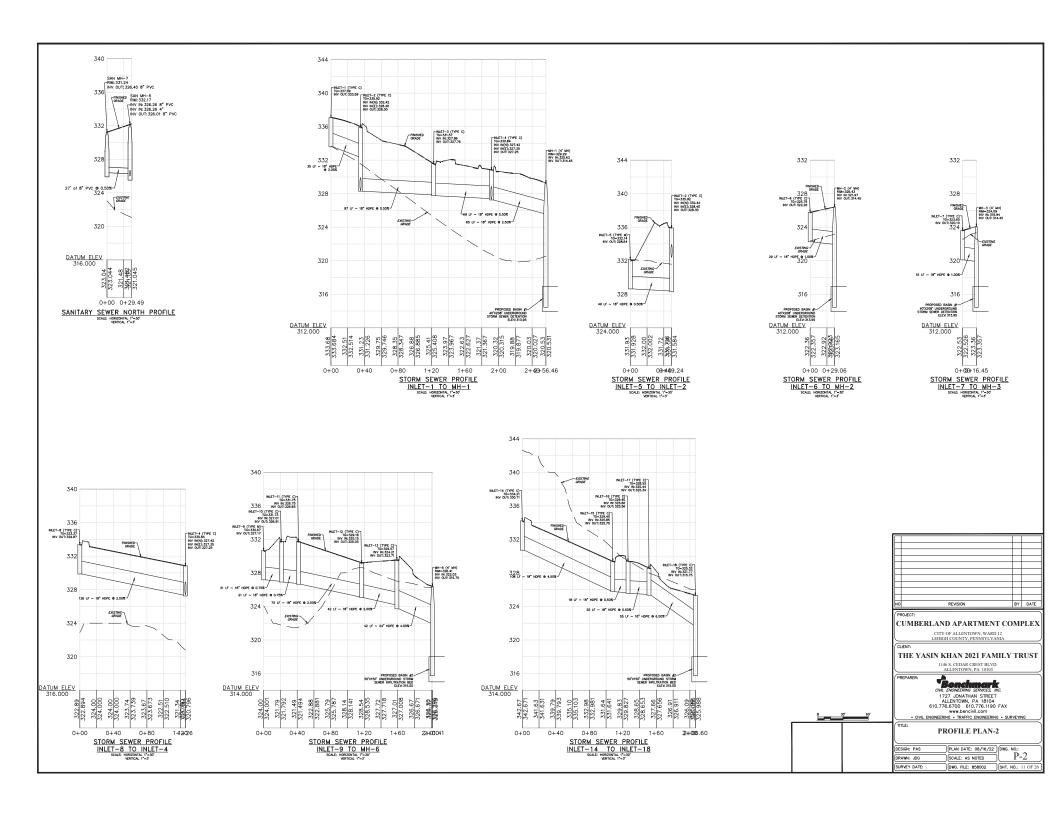


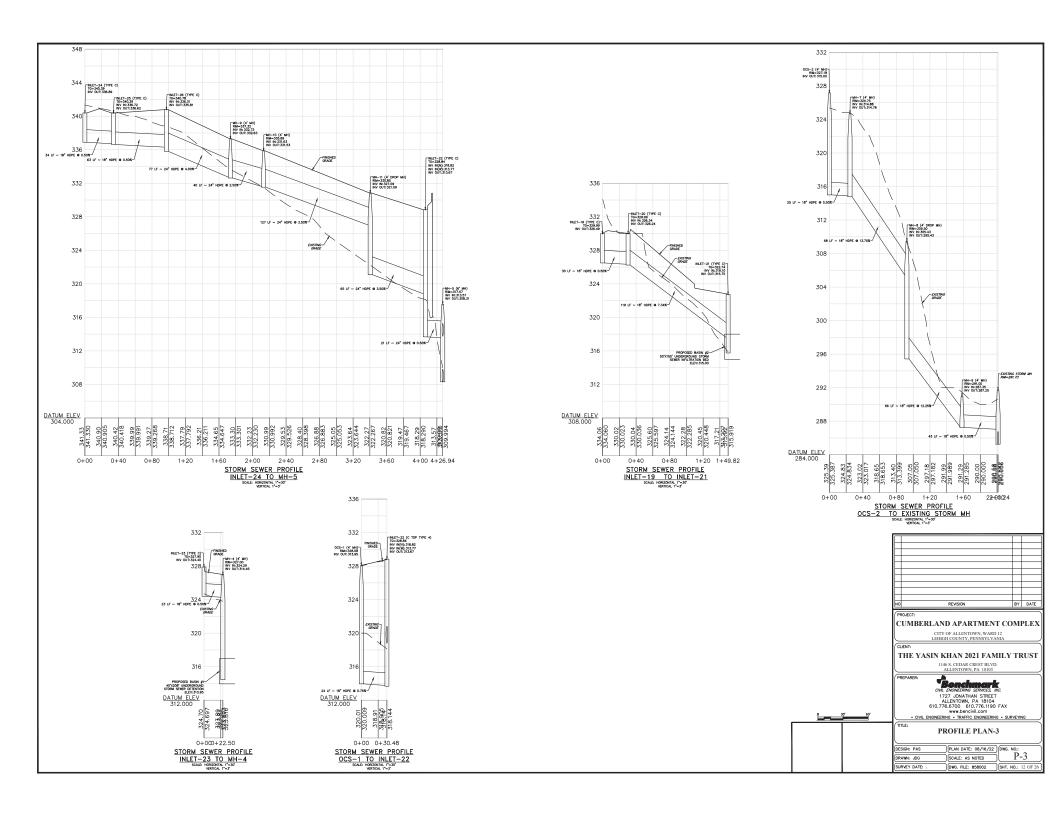


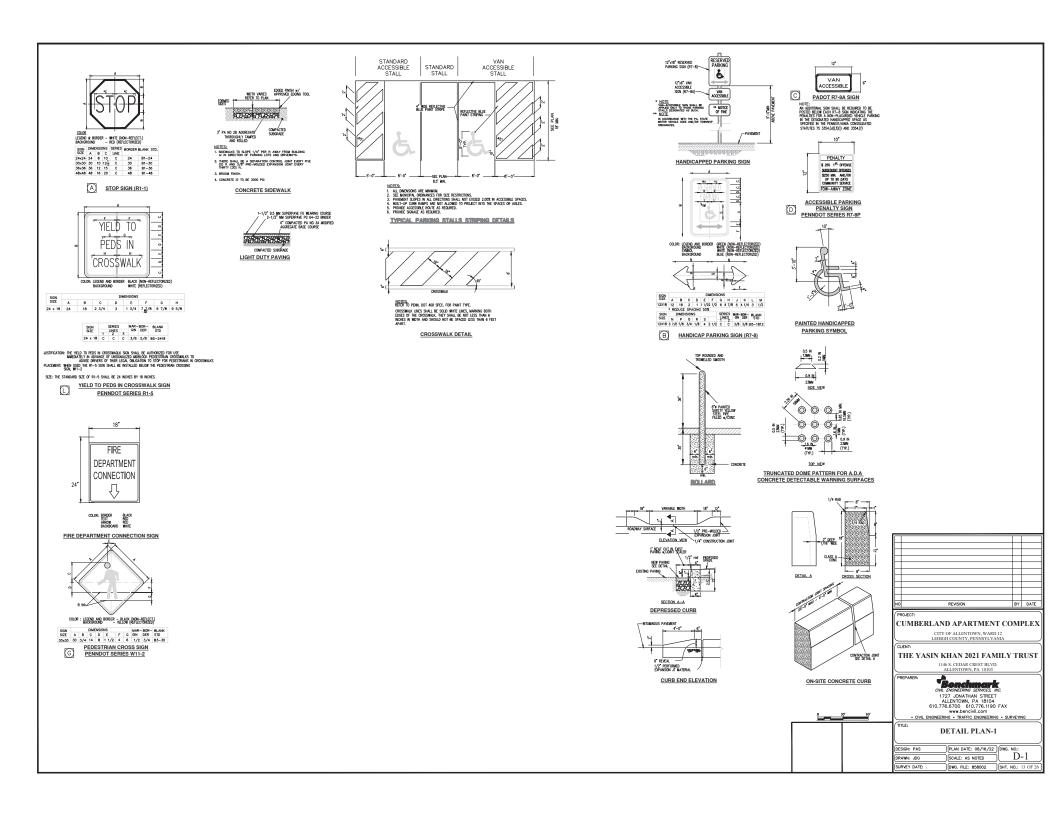


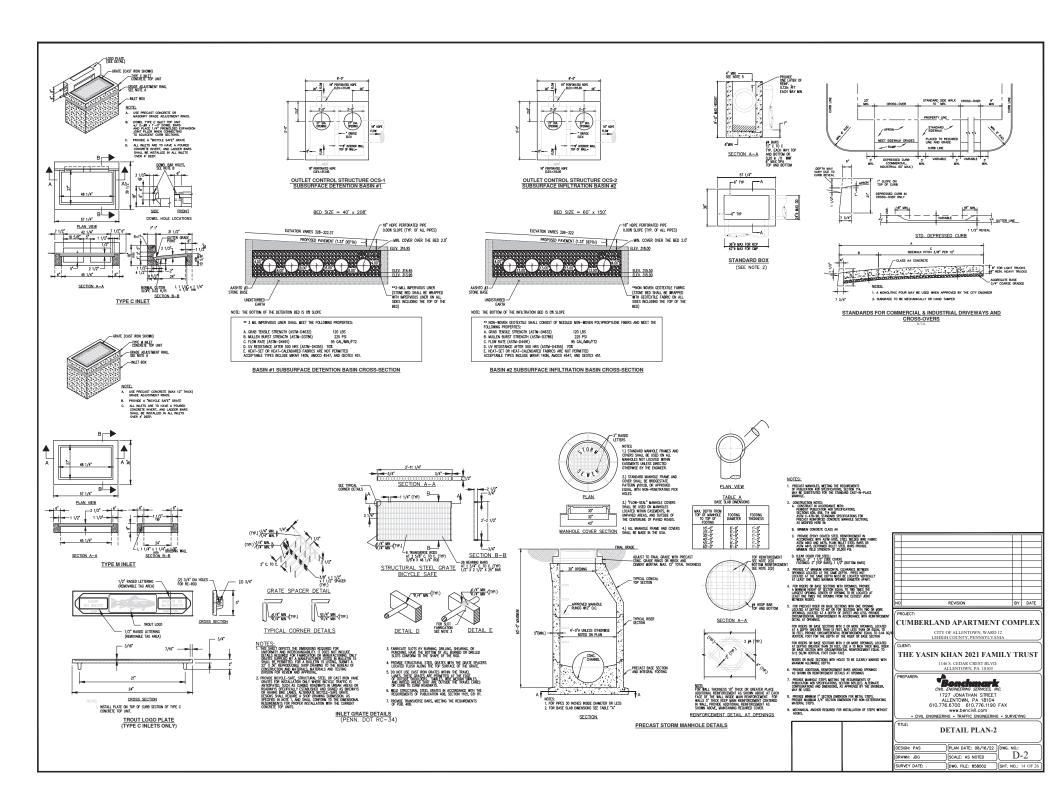


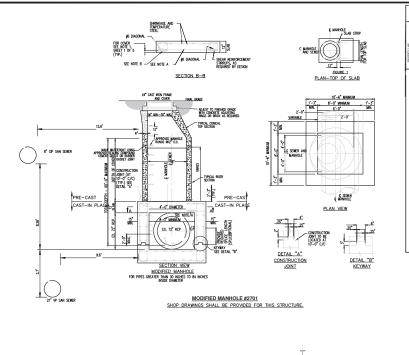












CLASS Á BEDDING

CLASS A BEDDING

SEASSING. UNDISTURBED EARTH SUBGRADE

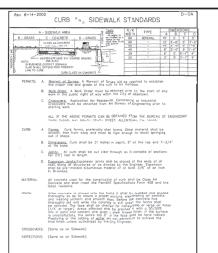
UNDER NEW PAVEMENT

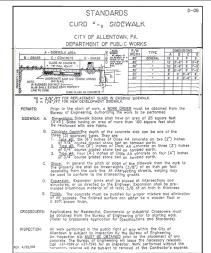
TRENCH VARIATIONS

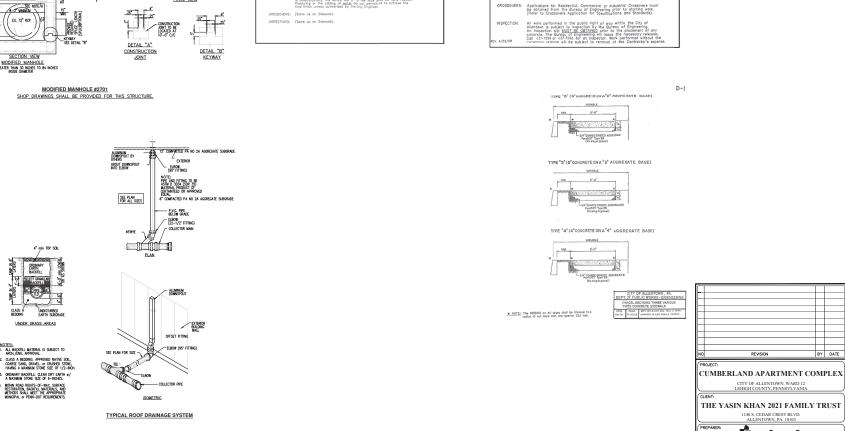
UNDISTURBED FARTH SUBGRADE

UNDER EXISTING PAVEMENT

ROCK SUBGRADE IN ROCK



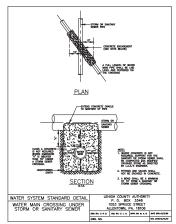


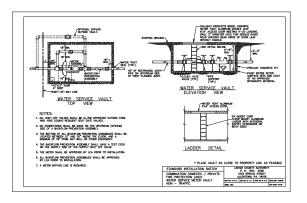


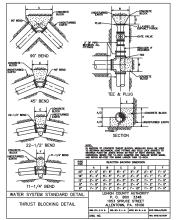


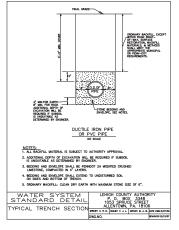
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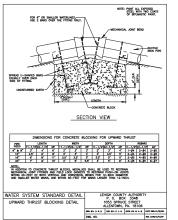
BY DATE

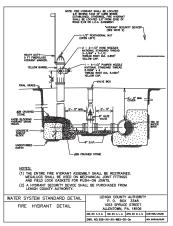


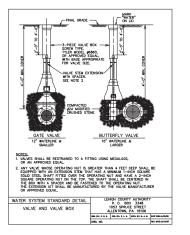


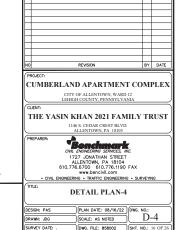


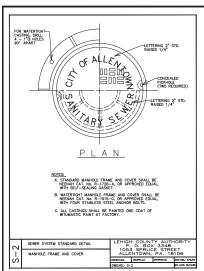


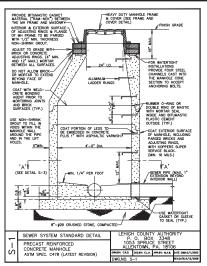


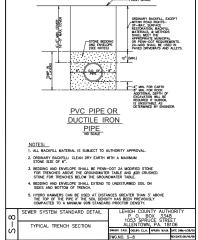


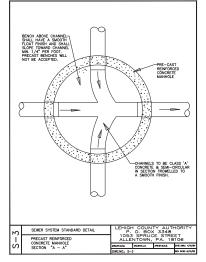










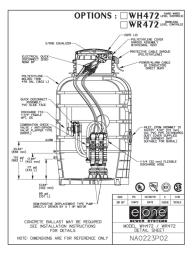


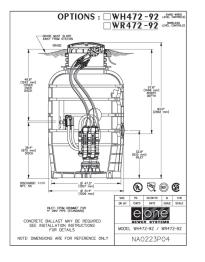


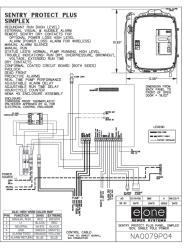
WH472/WR472

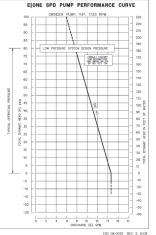
Rated for flows of 3500 gpd (13,249 lpd) 476 gallons (1902 liters) of capacity Standard outdoor heights range from 77 inches to 122 inches

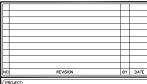
Alarm panels are available with a variety of options, from basic monitoring to advanced notice of service requirements.











DD F.

CUMBERLAND APARTMENT COMPLEX

CITY OF ALLENTOWN, WARD 12 LEHIGH COUNTY, PENNSYLVANIA

THE YASIN KHAN 2021 FAMILY TRUST

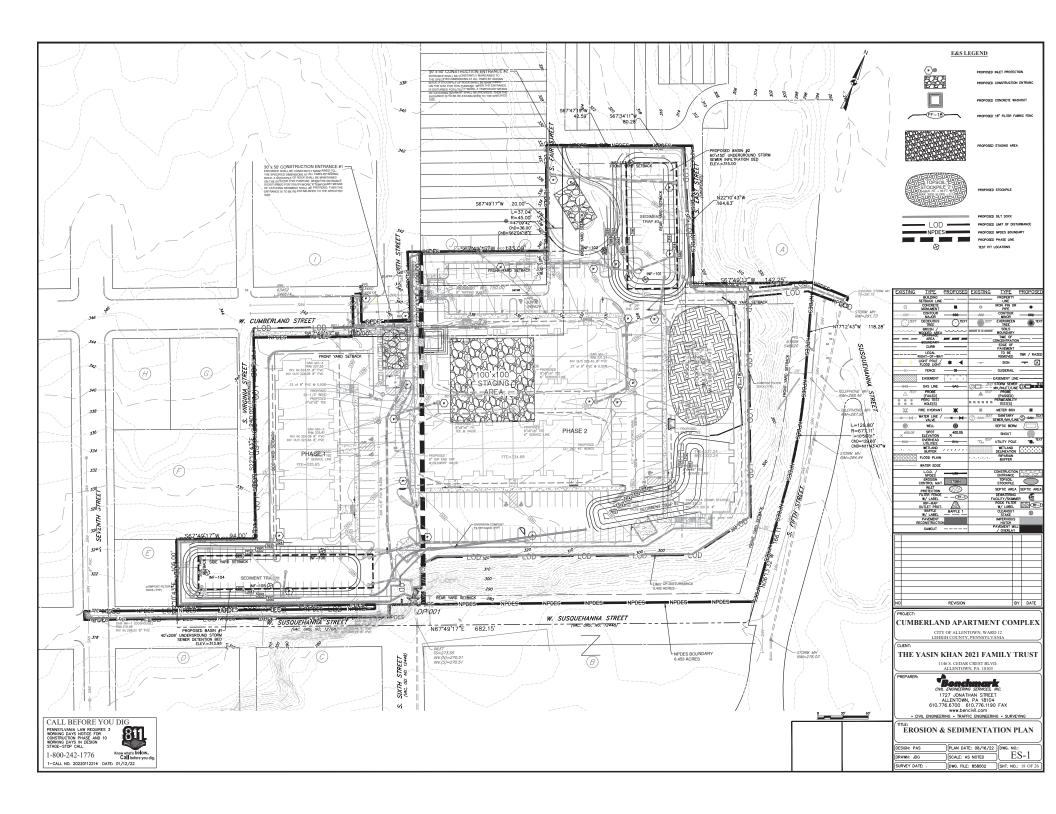
1146 S. CEDAR CREST BLVD.

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DETAIL PLAN-5





9) IMMEDIATELY UPON DISCOVERNO UNFORESEN CIRCUMSTANCES POSNO, THE POTENTIAL FOR ACCELERATED EROSION AND/OR POTENTIAL FOR ACCELERATED EROSION AND/OR POPROPRIATE EST MANAGEMENT PRACTICES TO MINIMAZE THE POTENTIAL FOR EROSION AND SEDMENT POLLUTION AND NOTEY THE COLLA_COMMERCATION DISTRICT AND/OR THE REGORNAL OFFICE OF

CONSTRUCTOR DITEMPLE.

19 JURIL TO SET STANLED, ALL ENGINE AND SERVICE AND SER

SPECIAL WATER TRACES ONLY ANY PARK SHOWN OF SERVICE WATER.

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24) FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

STABILIZATION NOTES

UNDN COMPLETO OF AN LAPIN DETURBANCE ACTIVITY OF ANY STAGE OF PAUSE OF AN ACTIVITY, THE OPERATOR SHALL STRAUZZ RABIDATILY THE PAUSE OF AN ACTIVITY, THE OPERATOR SHALL STRAUZZ RABIDATILY THE OPERATOR AND THE STABILIZED IN ACCORDANCE WITH PERMANENT SEEDING SPECIFICATIONS. ALL COOLS STOCKHES MUST BE STABILIZED MAREDATELY.

HAY OR STRAW MULCH MUST BE APPLIED AT RATES OF AT LEAST 3.0 TONS MAY OF SHEER MALON MADE IN PRIESON TO NATE OF AN LEGET AS THE MALON SHEET THE ASSESSMENT THE CONTROL THE CONTROL MADE OF SHEET THE CONTROL THE CONTROL MADE OF SHEET THE CONTR

BAMEMATELY AFTER EACH SECTION OF FINAL GRADING HAS BEEN COMPLETED, ALL DISTINGED AREAS SHALL BE PERMANDEN'S TRANSLED. TO ACHIEVE THIS AFTER LANGE OF FORCE, 2 TO A HOUSE DISTINGUISHED ASSOCIATION OF THE PROPERTY OF THE LIGHT COUNTY OF THE MANAGEMENT TO EXEMPT OFFICE, FIND AND THE SITE OF THE LIGHT COUNTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE LIGHT COUNTY OF THE PROPERTY OF THE PR

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4) ALL EARTH DISTARBANCE ACTIVITIES SHALL PROCEED IN 20) DISSION AND SEMBENT RIPS MUST BE CONSTRUCTED, STARLEZED, AND ACCORDANCE WITH THE SECURICAL PROVIDED ON THE FLAN PROCESSOR STREET STREET, STRE

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10) ALL SEDIMENT REMOVED FROM BAINS SHALL BE DEPOSED OF IN 44 ANY DAMAGE BASH OCCURS IN MINGLE ON PART AS A RESIST OF THE NAMEWER DETERMED ON THE FAVOR DAMAGES. STANLING ASSESS OF THAP DECOUNSES SHALL BE INMEDIATELY REPORTED BY THE REMOVED FROM BASH OF THAP DECOUNSES SHALL BE INMEDIATELY REPORTED BY THE REMOVED FROM BASH OF THAP DEFORMED ASSESS OF THAP DECOUNSES SHALL BE INMEDIATELY TO THAP DEPOSIT ASSESS OF THAP DESCRIPTION OF THAP DEPOSIT AS A PROPERTY OF THAP DEPOSIT ASSESS OF THAP DEPOSIT ASSESSMENT OF THAT DEPOSIT ASSESSMENT OF THAP DEPO

50) EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER, WITHIN 50 FEET OF A SUFFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.

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TOPSOL STOCKPILE — STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET.

STOCKPILE SLOPES MUST BE 2:1 OR FLATTER. SEDIMENT REMOVED FROM
ALL EASPO FACILITES SHALL BE PLACED ON TOPSOL STOCKPILE AND
SEPEDE AND MULCHED IMMEDIATELY. COMPOST FILTER SOCK— CLEANOUT UPON SEDIMENT REACHING ONE HALF THE SOCK HEIGHT, REPLACING ANY DAMAGED POSTS OR SOCKS

ROOK BILE AND MODERD BOCK FLITE - SEIMENT MUST BE REMOVED WITH ACCURALATIONS REACH OBE-HALF THE HEIGHT OF THE FLITE. MANUFACTURE HOW STREAKZAND OF EACH SHARE, REMOVE ACCUMALATED SEDMENT, REMOVE ROCK FLITE AND STABILIZE ANY DISTURBANCE.

CONCRETE WASHOUT FACILITY — MUST BE MAINTAINED SO THAT NO WASH WATER MAY FROM THE VIDEOES REACH ANY SURFACE MATER. THEY MUST BE LOCATED WITHIN 50 °C STORM DRAINS, OPPN DITCHS, OR SURFACE WATERS, ONCE FULL PROPERLY DISPOSE OF THE MATERIALS BY RECYCLING.

PRINTED BATTER ELTER BAG. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. PLEIS BAGS SHALL BE REPLACED WITH THAT VECOME DISPOSAL PROVIDED PROVIDED PROVIDED PROVIDED BAGS SHALL BE REPLACED WITH SUPPLY BAGS SHALL BE RESPECTED DAILY. IF ANY PROBLEDS ARREST, PURPOSE SHALL CEASE MANDEATELY AND MOT RESUME UNIT. THE PROBLEM SORREST.

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ALL BUILDING MAIEMALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLD WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT LLEGALLY BURY, DUMP OR DISCHARGE ANY BUILDING MATERIAL WASTES AT THE SITE.

REGULATIONS.

BIOVPOULS RESPONSIBLE FOR EARTH INSTURBANCE ACTIVITIES MUST MANUFACTURED FOR EARTH INSTURBANCE ACTIVITIES MUST MANUFACTURED FOR EARTH INSTURBANCE ACTIVITIES MUST MANUFACTURED FOR EARTH AND FOR EARTH MATER, SONTRET WASTE FIG. THAT COULD ADVISEDLY MAPACE MATER QUALITY.

RECYCLING OF EXCESS MATERIALS IS PREFERENCE, RATHER THAN DISPOSAL, HAZAROSUS MATERIALS OR MIGHTS ARE NOT MICHOPATED FROM THE CONCREDITION OF THE SITE. THE STEE CONTRACTOR MUST HOWEVER MAKE PROVISIONS FOR WASKE ASSOCIATE WITH EARTHMONION AND CONSTRUCTION EQUIPMENT AS REQUIRED AND IN ACCORDANCE WITH REQUILATIONS OF THE HAZAROSUS ASSOCIATED AND ASSOCIATED ASSOCIATION OF REPARAMENT AS THE PROPERTY AND ASSOCIATION STRANGE, AND USE OF FUELS.

CONSISTION MITERALS, AND EXPRIENT

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EXTRARGUES SOL AND ROCK MATERIAL DUE TO 6MP INSTALLATION, USE, AND RELOVAL SHALL BE GORDOSED OF MI APROPER MANNER. IT IS AND RELOVAL SHALL BE GORDOSED OF MI APROPER MANNER. IT IS THE OFFICE OF THE STATE OF THE STA

ANTICIPATED CONSTRUCTION WASTES EROSION CONTROL MATTING BULLDING MATERIALS SUCH AS CONCRETE BLOCKS, BRICKS, SCRAP LIMBER, DRYWALL ETC. HOPE PIPE. HDPE PIPE RUBBER SEALANT GEOTEXTILE SCRAP ELECTRIC WRING.

BMP SEDIMENT REMOVAL NOTE SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STARLIZED, OR PLACED IN TOPSOL STOCKPLES

NO CLEARING AN/OR GRUBBING OF THE SITE MAY TAKE PLACE UNTIL ALL THE ERGISION AND SEDMENTATION CONTROLS, AS CUTLINED, HAVE BEEN INSTALLED AND ARE PUNCTIONAL.

AND ARE FUNCTIONAL. AT LEAST TO STARTING ANY EARTH DISTURBANCE, ACTIVITIES, THE CONTRACTORS INVALVED BY THOSE ACTIVITIES, THE CONTRACTORS INVALVED BY THOSE ACTIVITIES, THE CONTRACTOR INVALVED BY THOSE ACTIVITIES, THE APPROPRIATE MANAGEMY, OPPOUND, THE REPRESENTATIVE OF THE COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MILETING.

ALSO, AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES MUST NOTIFY THE PENNSTLVANIA ONE-CALL SYSTEM, INC. AT 1-800-242-1776 FOR BURIED UTILITIES LOCATIONS. AT THE END OF EACH CONSTRUCTION DAY, ANY SEDIMENT DEPOSITED ON ANY PERMIETER STREETS IS TO BE REMOVED, RETURNED TO THE SITE, STOCKPILED AND STABLIZED.

ALL STRUCTURES ASSOCIATED WITH THE CONSTRUCTION OF SEDIMENT REMOVAL FACILITIES MUST BE AVAILABLE ON-SITE PRIOR TO ANY EARTHMOVING. IF AT ANY TIME PRIOR TO STABILIZATION ANY EAS PROBLEMS WHICH OCCUR AND REQUIRE ADDITIONAL MEASURES, INMEDIATE ACTION MUST BE TAKEN TO CORRECT THE PROBLEM.

AT THE END OF EACH CONSTRUCTION DAY, ANY SEDIMENT DEPOSITED ON ANY PERMINETER STREETS IS TO BE REMOVED, RETURNED TO THE OFFSITE STOCKPILE AND STRAILIZED.

ANY CESSATION OF ACTIVITY FOR FOUR DAYS OR LONGER WILL REQUIRE TEMPORARY STABILIZATION.

*** CRITICAL STAGE NOTE
THE ORTICAL STAGE OF IMPLEMENTATION OF EAS BMP'S FOR WHICH A
LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ON SITE INCLUDE: THESE DAMES ARE RECORDED TO BE REPORTED CARRIED RETAILATION AREA MATTER CORRECT OF THE WINDOWS TO THE REPORT OF TH

THESE BUPS ARE REQUIRED TO BE INSPECTED DURING INSTALLATION AND MUST BE SOUND OFF ON PRIOR TO NOTICE OF TURNINATION. THE RESPONSIBLE PARTY, AND/OR AN ADDIT OF SOUCH AS WELL AS THE DESIGN PROFESSIONAL, AND/OR AN ADDIT OF SOUCH WILL BE PRESENT ON-SITE DURING THE RESPONSIBLE BUTS OF THE PRIOR OFF DESIGN TO THE PRIOR OFF DESIGN TO THE PRIOR OFF DESIGN.

STAKEOUT THE LIMIT OF DISTURBANCE WITH GRANGE CONSTRUCTION FENCE.
 INSTALL THE PROPOSED ROCK CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS AND PER PLAN EXAMPLE.

3. INSTALL THE PROPOSED COMPOST FILTER SOCKS AROUND PERIMETER OF SOE AS SHOWN.

CLEAR AND GRUIN VICETATION AND TOPSOL FROM THE AREA TO BE DISTURBED FOR SEMENTI BASIN, STOCKPILE TOPSOL IN DESIGNATION AREA AS SHOWN ON THE FLAN DRAWING RETALL (17) COMPOSITE FLIRE SOCIAL STOCKPILES AND ADMINISTRATIVE SOCIAL STATEMENT OF THE SOCIAL STATEMENT OF THE STATEMENT OF THE SOCIAL STATEMENT OF THE SOCIAL STATEMENT OF THE STATEMENT OF THE

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14. CONSTRUCT UNDERGROUND BASIN.
15. CONSTRUCT DISCHARGE PIPE TO CITY SYSTEM.
16. CONNECT STORM PIPE TO BASIN.
17. INSTALL CURBING, SET SACKS.
18. PAKE PAKENG LOTS.
19. FINISH CONSTRUCTION OF BUILDING A.

PRIME I - MILITIMOS B M C

21. METALL CONSTRUCTION DETRING Z

21. METALL CONSTRUCTION DETRING Z

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SOIL RESTORATION

2. TREATING COMPACTION BY RIPPING / SUBSOLING / TILLING /

A SESSIONAL STORY FETCHING WHICH PROFORED ON DRY SOLS. AN A SESSIONAL STORY AND REPORTED TO SERVICE AND A SESSIONAL SES ANY EXISTING TREES, OVER UND UTILITY INSTALLATIONS WITHIN 30 INCHES OF THE SURFACE, WHERE TRENCHING CHRAINAGE UNES ARE INSTALLED, WHERE COMPACTION IS BY DESIGN
SUBSIGNED SHOULD NOT BE PERFORMED WITH COMMON TILLAGE TOOLS
SUCH AS A DISK OR CHISEL PLOW BECAUSE THEY ARE TOO SHALLOW
AND CAM COMPACT THE SOIL JUST BENEATH THE TILLAGE DEPTH.

CRITICAL STAGES NOTE:

PAGE PROJECT HAS A SOL MANAGEMENT PLAN IN PLACE WHICH MUST BE FOR EARTH INSTRUMENT SHALL BEEN AND FOLLOW HE RECOMMENDATIONS IN THE SOL MANAGEMENT PLAN BEFOR MOY FOLLOW HE RECOMMENDATIONS IN THE SOL MANAGEMENT PLAN BEFOR PROPAGED BY CLAR FOR PROJECT. THE OVERALL SOL MANAGEMENT PLAN BEFOR PROJECT SHALL SHALL

THE CRITICAL STAGES OF IMPLEMENTATION OF PCSM BMP'S FOR WHICH A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ON SITE INCLIDE THE:

 THE CONSTRUCTION OF THE PROPOSED INLETS WITH SNOUT/SUMP.
 THE INSTALLATION OF WATER QUALITY TREES. 43 THE PROJECTION OF METER CULTUT THESE
THESE GHAP'S ARE COURSED TO BE REPORTED DURING INSTALLATION AND MUST
BE SHADD OFF OR PROCET DI NOTICE OF TENNALATION. THE RESPONSEME.
PRITY, MAN/DER AM ACREST OF SHOULD AS WILL AS THE DESIGN PROFESSIONAL,
AND/OR AM ACREST OF SHOULD HELD BE PRESENT ON-SITE DURING THE
BEFOLIALISM OF THE PROPOSCED DURING.

PAST LAND USE: INDUSTRIAL FOR THE PAST SO YEARS
(THE PROJECT HAS BEEN THE SITE OF THE FORMER MACK TRUCK
HEADQUARTERS AND MANAFACTURES FACILITY SINCE THE EARLY 1900S.)
PRESENT LAND USE: INDUSTRIAL FOR THE PAST 5 YEARS.
PROPOGREE LAND USE: INDUSTRIAL FOR THE PAST 5 YEARS.

SOIL CLASSIFICATION.
THIS SOIL TAKEN FROM THE SOIL SURVEY OF LEHICH COUNTY, PA PERFORMED BY THE U.S. DEPT. OF AGRICULTURE SOIL CONSERVATION SERVICE, DATED NOVEMBER 1963, THIS SITE IS FOUND ON MAP PAGE 32. MADE LAND, LIMESTONE MATERIAL - 8% SLOPES**

MADE LAND THE BENGON MATERIAL, 8 - 25% SLOPES

MEDITAL SOURCE GROUNG THE STATE OF T

SOIL LIMITATIONS AND RESOLUTIONS
THESE ARE THE LIMITATIONS AND RESOLUTION THAT AFFECT THE ON
SITE SOILS FOR THIS PROJECT:

DEPH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE IF WATER IS ENCOUNTEED DURNINE EXCAVATION OF TRENCHING, A PUMPED WATER BAG SHALL BE USED TO REMOVE SEDIMENT FROM THE WATER BEFORE IT IS DISCHARGED TO A STABILIZED LOCATION. (SEE EASE DRAWNED FOR DETAILS).

CUTBANKS CAVE EXCAVATION - EXCAVATION SHALL BE SHALLOW, IS NOT POSSIBLE USE TRENCH BOXES OR SHORING AS REQUIRED TO MEET OSHA REQUIREMENTS AND LOCAL CONDITIONS.

LOW STRENGTH/LANDSUDE - DO NOT PERFORM TRENCHING, PRONE BACKFILLING OR COMPACTING WHEN WEATHER CONDITIONS OR THE CONDITION OF MATERIAL IS SUCH, IN THE OPINION OF THE ENGINEE THAT WORK CANNOT BE PERFORMED SATISFACTORS. PIPING - ANTI-SEEP COLLARS ARE TO BE UTILIZED, AS NEEDED

ERODIBLE SOILS
SWALES AND SLOPES ARE DESIGNED WITH EROSION CONTROL
MATTING TO PREVENT EROSION UNTIL PERMANENT STABILIZATION IS

POOR SOURCE TO TOP SOIL.
AN ONSITE INVESTIGATION REVEALED SUFFICIENT AMOUNTS OF FILL.
AVAILABLE FOR THE PROJECT. WETNESS
SOIL TESTS ARE RECOMMENDED TO DETERMINE THE PROPER
APPLICATION OF SOIL AMENDMENTS TO PROMOTE THE GROWTH OF
THE DESIRED VECETATION.

SHRIK - SWELL
DO NOT USE BACKFIEL MATERIALS CONTAINING MOISTURE IN EXCESS
THE AVAILABLE OF COMPACTION.

THE AVAILABLE OF COMPACTION.
AN ONSITE INVESTIGATION REVEALED SUFFICIENT AMOUNTS OF FILL
AVAILABLE FOR THE PROJECT.

102.4(B)(5)(XII) IDENTIFICATION OF THE NATURALLY OCCURRING GEOLOGIC FORMATION

OR SOIL CONDITIONS THAT MAY HAVE THE POTENTIAL TO CAUSE POLLUTION DURING EARTH DISTURBANCE ACTIVITIES AND INCLUDE BMPS TO AVOID OR MINIMIZE POTENTIAL POLLUTION AND ITS IMPACTS FROM TO A CONTROLLED TO A CONTROLLE

102.4(B)(5)(XIII) IDENTIFICATION OF POTENTIAL THERMAL IMPACTS THE PROJECT PROPOSES REMOVING DUSTING IMPERVIOUS SURFACES, THE TOTAL PROPOSED IMPERVIOUS AREAS SHALL BE LESS IN POST-DEVICE/OPMENT CONDITION THAN THE PRE-DEVELOPMENT CONDITION THAN THE PRE-DEVELOPMENT CONDITION THAN THE THERNAL IMPACTS ASSOCIATED WITH THE PROJECT IN THE PROPOSED LANDSCAPING (TREES) WILL ALLOW STORMARTER RUNGET TO DOOL PRIOR TO REJOHNO THE WATERS OF THE COMMONWELL AND STORMARD CHARGE TO THE COMMONWELL AND STRUCTION COMPOSE SILL TOOLS SHAUL BE UTILIZED AND THE STRUCTURE OF THE STRUCTURE O

EXISTING AND PROPOSED RIPARIAN FOREST BUFFERS.

PIPE INSTALLATION THROUGH SILT SOCK

WHEN PLACING THE PIPE SECTION UNDER SLT SOCK, SLT SOCK SHOULD BE CUT AND TERMINATED PER MANUFACTURER'S RECOMMENDATIONS TO ALLOW FOR PIPE TRENCH EXCAVATION. IMMEDIATELY INSTALL PIPE AND REPLACE SECTION OF REMOVED SOCK WITH A MODIFIED ROCK

CUMBERLAND APARTMENT COMPLEX

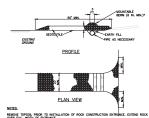
THE YASIN KHAN 2021 FAMILY TRUST 1146 S. CEDAR CREST BLVD.

ALLENTOWN, PA 18103 Benchmark CML ENGINEERING SERVICES, INC.

1727 JONATHAN STREET ALLENTOWN, PA 18104 610.776.6700 610.776.1190 FAX www.bencivil.com

 CIVIL ENGINEERING • TRAFFIC ENGINEERING • SURVEYING EROSION & SEDIMENTATION NOTES

DESIGN: PAS	PLAN DATE: 08/16/22	DWG. NO.:
DRAWN: JDG	SCALE: AS NOTED) ES-2
SURVEY DATE: .	DWG. FILE: 858002	SHT. NO.: 19 C



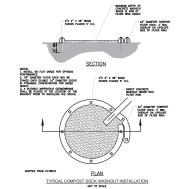
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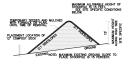
SEMMY: TOPGOL, PROR TO INSTALLATION OF ROOK CONSTRUCTION ENTRANCE. EXTEND ROOK
ORNANDES SHALL BE CONSTRUCT FORM SOCIOUSLY TO A SUTTABLE SEGMENT ROMOVIL, SAMP PROR
TO INTERIOR ROOK CONSTRUCTION ENTRANCE AND THE SEGMENT ROMOVIL, SAMP PROR
MOUNTAINE SEGM SHALL BE RESTALLED WESTERNE COTIONAL, CLAYEST PRE S. USED AND
FORMER PROPORTION AS STOTEDING BY WANAFACTURING IS NOT DESTRUCTE FORMS.

STORY OF THE STORY OF THE

SAUL SE SZED AMPROPRIATE YOR SZED OFFOR SIED CHESICO (SIED CHESICO) MANITAMEN MANITAMEN CONSTRUCTION CONTINUED CHESICO (SIED CHESICO) CHE

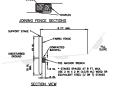
STANDARD CONSTRUCTION DETAIL #3-1 ROCK CONSTRUCTION ENTRANCE





STOCKPILED (TOPSOIL AND SUBSOIL) & FILL MATERIAL

MARITHANCE: 1. THE STOCK THE TOPSON, AND THE MATERIAL WILL BE INSPECTED ON A DALY RASS AND 2. ATTRE EVEN THE PROPERTY OF THE P



SCIENCE, CALL, THE SE SEASON PROTESTES AS SHOWN IN THAT AS O'THE PA DOT SHOWN OFFICE MANUAL PLANT PROTESTES AS SHOWN IN THAT AS O'THE PA DOT SHOWN OFFI THE SHOWN OFFI THE

COLLETTO SHARIL MAN OF THE SHA

NOTES: WHEN FACE SHALL BE SO FEET (MAN, WIDE OR TOTAL WOTH OF ACCESS.

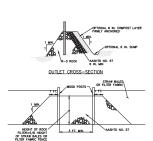
WHEN AND SHALL BE SEGRED AND CONSTRUCTED TO ACCOMMODATE ANTICIPATED CONSTRUCTION SHOULDER TRAFFIC.

AN MATER SPEPLY SHALL BE MADE AVALABLE TO WASH THE WHEELS OF ALL VEHICLES DITTING THE STIT.

THE STE.

MANTEMANCE ROOK CONSTRUCTION ENTRANCE THEORESS SHALL BE CONSTANTLY MAINTAINED TO THE PERCENT DIMENSIONS BY ADDRESS ROOK. A STOOPPILE OF ROOK MATERIAL SHALL BE THE PERCENT OF TH

STANDARD CONSTRUCTION DETAIL #3-2 ROCK CONSTRUCTION ACCESS WITH WASH RACK



UP—SLOPE FACE

NOTES.

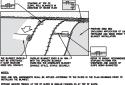
A ROOK PLEE CUPIET SHALL BE INSTALLED WHERE FAILURE OF A BUT FINISE OF STRAIN
BALL BANGED HAS COLUMNED DUE TO CONCENTRATE FLOW, AMONGSTED CHAPTE
SHALL BE USED ON WITSCHET FLOW. IN HOW DE VENTIONED

SEDIMENT SHALL BE RENOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET

STANDARD CONSTRUCTION DETAIL #4-6

ROCK FILTER OUTLET

NOT TO SOLIE



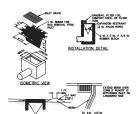
INDICE.

SEE AND DOL AND AND SHALL BE APPLIED ACCORDING TO THE RANCE IN THE FLAN CHARMES FROM TO RECOVER THE PARK OF THE PARK

THE EARTH FOUL RE SANDS IN ACCOUNTER WITH THE WARRACTURE'S ECOMMISSION.

MENETUR MAKES INCH CE MENTED THE SAND AND THE DOES INSOCRO ONLY INTO FOUL THE PROPERTY MAKES IN THE SAND THE S





MOTES.

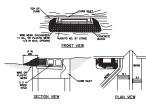
WERNING DERBOACK SHEAR = 1/2 KORE.

RELET PROTECTION SHEAL NOT HE REQUISIT FOR HALT MERITARY TO EXISTING HAMM ON HEALT PROTECTION SHEAR NEEDS SHEAR RECORDED FOR HAIR INSTITULATIONS.

RELETE PROTECTION SHEAR S

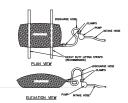
NULTY HITTER SAULT SHALL BE ROOMEDED ON A RESERV SLOSS AND AF SHE LLOSS MANNEY CLORATION AND SHE ROOMEDED AND AFFECT SHALL SHE WASHINGTON CHARACTER AND SHE ROULDED SAN TO CALLIER SCHOOL OR SHY-MANNEY OF "SHE HILL!" DAMAGES ON CLOCOSED MANS SHALL BE SETALLED. A SUPPLY SHALL BE MANTANDO ON STOR SHALLANDER SHALL SHE MANTANDO ON STOR SHEATMANN OF SHE SHALL SHE MANTANDO ON STOR SHEATMANN OF SHEATM

DO HOT USE ON MAJOR PAVED ROADWAYS WERE PONDING MAY CAUSE TRAFFIC HAZARDS STANDARD CONSTRUCTION DETAIL #4-15 FILTER BAG INLET PROTECTION - TYPE C INLET



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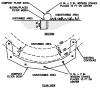
STANDARD CONSTRUCTION DETAIL #4-17
TONE AND CONCRETE BLOCK INLET PROTECTION - TYPE C INLET



LOW VOLUME FILTER BAGS SHALL BE MADE FROM MON-BOXEN GEOTECHTE MATERIAL SERN WITH HOM STRENGEN, DOUBLE STEDIOED "IT THE SEARS, THEY SHALL BE CAPARE OF TRAFFING PARTICLES LADGE THAN TO MOREOUS, HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WORNIN GEOTECHTES THAT MEET THE

PROPERTY	TEST METHOD	STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
CRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
VOS % RETAINED	ASTM D-4751	80 SIEVE

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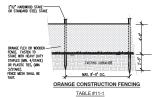
STANDARD CONSTRUCTION DETAIL #4-1
COMPOST FILTER SOCK

		17	VBLE #4-1		
	920	POST SOCK FAMES	MNMUM SPECIFIC	ADONS	
MATERIAL TYPE	3 ML HOPE	5 ML HOPE	S ML HOPE *	MULTI-FEAMONT POLYPROPYLENE (MEPP)	HEAVY DUTY MULTI-FILAMENT POLYTROPYLENE (HOMETP)
MATERIAL CHARACTERISTICS	PHOTO- DEGRADABLE	PHOTO- DESPANABLE	DECRAÇABLE	PHOTO- DESPAÇABLE	PHOTO- DEGRAÇABLE
SOCK DIAMETERS	12"	2. 2.	12 ⁴⁴ 18 ⁴⁴ 24° 32°	12" 18" 24" 32"	25. 24. 25.
MESH CPENING	3/6"	3/6"	3/6"	3/6"	1/8"
TENSILE STRENGTH		26 PS	26 PSI	44 PS	202 PSI
ULTRAWOLET STABILITY N ORIGINAL STREMOTH (ASTM G-156)	235 AT 1000 HR.	236 AT 1000 HR.		1000 AT 1000 HR.	100% AT 1000 HP.
FUNCTIONAL LONGEVITY	e wontes	9 MCHTHS	6 MONTHS	1 YEAR	2 YEARS
		780-6	SYSTEMS	_	
INNER CONTAINMENT			HERE BRYGHT NE. CONTINUOUS A MI SALE BRYGHT NE.	OND DETURES	
OUTER FILTRATION ME	SH				See .
			3/16" MAX. APET		

* NEIGHTS THE LINNS TYPE TO BE USED IN THIS PROJECT.

TABLE 4.2 COMPOST STANDARDS		
ORGANIC WATTER CONTENT	25% - 100% (DRY WEIGHT BASIS)	
ORGANIC PORTION	FIBROUS AND ELONCATED	
PH	5.5-8.5	
MOISTURE CONTENT	305-605	
PARTICLE SZE	305-505 PASS THROUGH 3/6" SEVE	
SOLUBLE SALT CONCONTRATION	5.0 DS/M (MMHOS/CM) MAXIMUM	

FILTREXX SOXX
PROVIDER /INSTALLER
HILITOP SERVICE INC.
16403 POTTSVILLE PIKE
HAMBURG, PA 19528
(610)-562-3124



DEPTH (IN.)	PER 1,000 SQUARE FEET	PER ACRE
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.6	806
7	21.7	940
8	24.8	1,074

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10	REVISION	BY	DATE
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CUMBERLAND APARTMENT COMPLEX
CITY OF ALLENTOWN, WARD 12
LEHIGH COUNTY, PENNSYLVANIA

GUENT:
THE YASIN KHAN 2021 FAMILY TRUST

1146 S. CEDAR CREST BLVD. ALLENTOWN, PA 18103

CVIL ENGINEERING SERVICES, INC.
1727 JONATHAN STREET
ALLENTOWN, PA 18104
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Title:
EROSION & SEDIMENTATION DETAILS

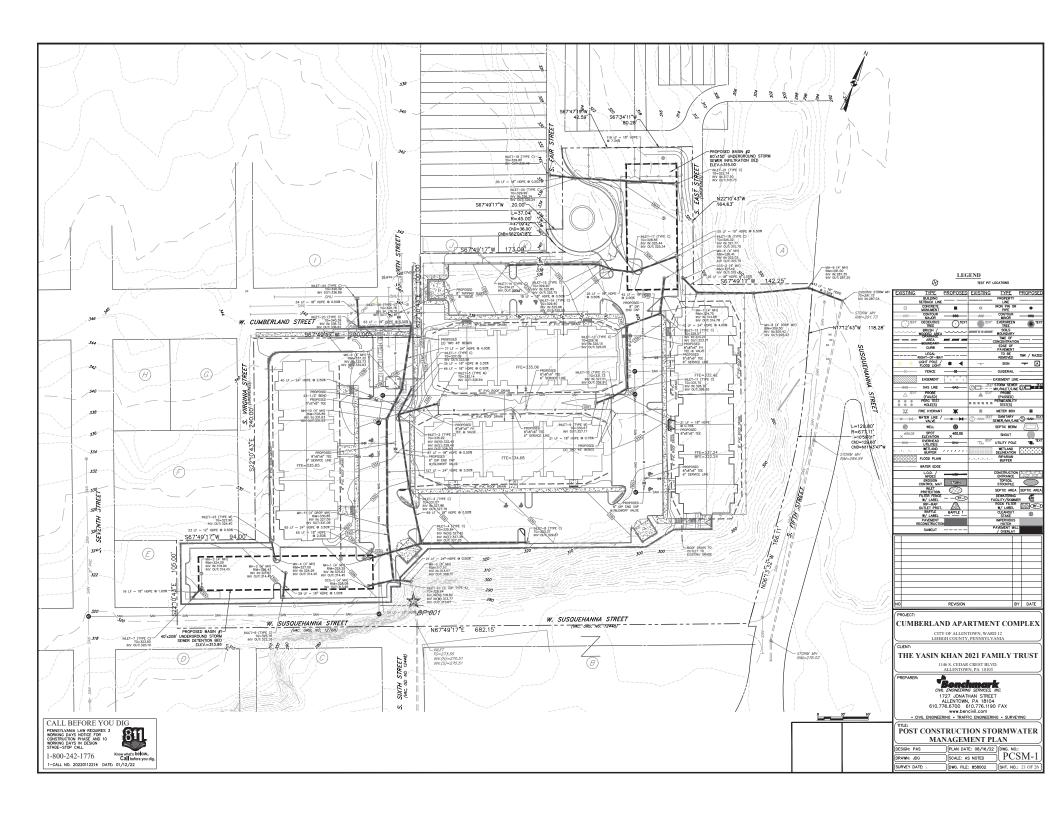
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URVEY DATE: .	DWG. FILE: 858002	SHT.	NO.: 20 OF 26	





- EXCAVATE DOWN TO ROCK TO SINKHOLE THROAT OR TO A DEPTH OF 58 FEET BELOW GRADE, WHICHEVER OCCURS FIRST
- 24. IF NO ROOK IS DICOMPREED, PULL SIX INPOMINE IS NOT EXCOUNTEED, PULL SIX INPOMINE IS NOT ENCOUNTEED, PERF TO FEEL STOP DECAMATION, COMPOUNT, A ZONG OF SIX IN-ILLIAM RESIN, MILL BE FORM WHICH CONFESS USED TO THE BOTTOM OF THE DOWNERS DEPOSITION OF THE STOP THO PRINT SIX INFO SIX INFO SIX INFO SIX INFO SIX INFO SIX IN-FIRE SIX I ZONE IS LARGER (24.71), REPROSICING STEEL SHOULD BE ROUGHED WHICH WE CONSISTE CAP.
- IN BUILDING STRUCTURAL AREAS, IF ROCK IS NOT
- 28. IF ROOK IS ENCOUNTERED: CLEM SUBFACE AND PLACE HOH-SLIMP CLIMBT GROUT INTO OPEN VIGIS AND ORACE OF GROUT DO NOT FILL VOICE, MED. IF SEVERA CUBIC YARDS OF GROUT DO NOT FILL VOICE, USE A STIFFER, LEAN CONCRETE MIX. IF A SINHOLE IS ENCOUNTERED POST-CONSTRUCTION, COMPACTION GROUTING IS RECOMMENDED.
- AFTER CONCRETE HAS SET OVERNIGHT, BACKFILL HOLE WITH RELATIVELY IMPERMEABLE SOL. COMPACT SOLL IN 6" LIFTS WITH A POWER TAMPER OR RAMMER. TWO COMPLETE COVERAGES SHOULD BE USED ON EACH LIFT.
- BACKFILL HOLE ABOVE EXISTING GRADE TO DIVERT SURFACE WATER.
- WHEN SINKHOLE IS UNDER A PROPOSED UTILITY, CONCRETE IS TO BE SET 6" BELOW THE UTILITY TO ALLOW FOR A STONE BEDDING.
- SINKHOLE REMEDIATION SHOULD BE PERFORMED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER.

SINKHOLE CONDITIONS



PCSM GENERAL NOTES: FERRAL TERMANTON UNIVERSITY STREAMS TO THE EARTH DISTURBANCE ACTIVITY UNDER \$ 102.22(A/2) (RELATING TO FERRAMENT STABULZATION OF THE EARTH DISTURBANCE ACTIVITY UNDER \$ 102.22(A/2) (RELATING TO FERRAMENT STABULZATION), AND INSTALLATION OF SHIPS IN ACCORDANCE WITH \$ 102.02 WITH A PROPRIET OF THE PROPRIE CONSTRUCTION OF CONTRACT ON THE TRACTICE OF THE OTHER PCSM REQUIREMENTS
PCSM REPORTING AND RECORDEDPING. THE PCSM PLAN, INSPECTION REPORTS AND MONITORING
RECORDS SHALL BE AVAILABLE FOR REVIEW AND INSPECTION BY THE DEPARTMENT OR THE LICENSED PROFESSIONAL OVERSIGHT OF ORTICAL STAGES. A LICENSED PROFESSIONAL OR A DESIGNE SHALL BE PRESENT ONSTE AND BE RESPONSIBLE DURING CRITICAL STAGES OF MELIZABRITATION OF THE APPROVED FOOM PLAN. THE GOTHOLE STAGES MAY INCLUDE THE INSTALLATION OF LICENSIONAL STRUCTURALLY EXPRESED BMPS OF OTHER BMPS AS DEBUILD APPROVENEES THE DEPARTMENT OF THE OCCUSENTATION USFRICT. FINAL CERTIFICATION. THE PERMITTEE SHALL INCLUDE WITH THE NOTICE OF TERMINATION "RECORD DRAWNINGS" WITH A FINAL CERTIFICATION STATEMENT FROM A LICENSED PROFESSIONAL, WHICH READS AS FOLLOWS:

7 (MAME) ON DEREST CERTIFY PURSUANT TO THE PENALTIES OF 18 PAC.S.A. § 400-10 THE
8EST OF MY MORRIZON, INFORMATION AND RELIP. THAT THE ACCOMPANYING RECORD DERIMINAS
CONCOMMANCE WITH OWNERS (10 OF THE RULES AND REQUILIDINGS OF THE PEPARAMENT OF
DIMENSHETAL PROTECTION AND THAT THE PROJECT SITE MAS CONSTRUCTED IN ACCORDANCE
WHITH THE APPRODED THAN EARLY ALL PHYROGED FLAT CHANGES AND ACCORDING CONSTRUCTED TO ACCORDANCE (1) THE PERMITTEE SHALL RETAIN A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED PICTURE PLAN. APPROVED PCSM PLAN.

(2) THE PREMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED PCSM PLAN TO THE PERSON DENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TIERM OPPRATION AND MAINTENANCE OF THE PCSM BROWN. FOR THE OPPRATOR AND MATTERACE SECRETARITY SHEET OF THE OPPRATOR OF A NOTICE OF THE PROPERTY OF CONTINUES OF THE OPERATOR OF THE OPPRATOR OPPRATOR OF THE OPPRATOR OPPRATOR OF THE OPPRATOR OPP THE PERMITTEE OR CO-PERMITTEE SHALL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MANIFEMANCE OF PICSM BMPS LINLESS A DIFFERENT PICKEON IS IDENTIFIED IN THE NOTICE OF TERMINATION AND HAS ARRED TO LONG-TERM OPERATION AND HAS ARRED TO LONG-TERM OPERATION AND AND ARRED TO LONG-TERM OPERATION AND MANIFEMANCE OF PICSM BMPS. THE PERSON RESPONSIBLE FOR PERFORMING LONG-TERM OPERATION AND MAINTENANCE MAY ENTER INTO AN ARREMENT WITH ANOTHER PERSON INCLUDING A CONSERVATION DISTRICT, NOWFROFT ORGANIZATION, MUNICIPALITY, MIDIORITY, PRIVATE CORPORATION OF OTHER PERSON, TO TRANSFER THE SESPONSIBILITY FOR PICES BEING OF TO PERFORM LONG-TERM OPERATION AND MAINTENANCE AND PROVIDE ONTCE THEREOF OTHER OPERATION. A PERMITTEE OR CO-PERMITTEE THAT FALS TO TRANSFER LONG-TERM OPERATION AND MANISHANCE OF THE POSM EMP OR OTHERWISE FALS TO COMPLY WITH THIS REQUIREMENT SHALL REMAIN JOINTLY AND SEVERALLY RESPONSIBLE WITH THE LANDOWNER FOR LONG-TERM OPERATION AND MANISHANCE OF THE POSM BIMES LOCATED ON THE PROCEDURE. RECYCLING/ DISPOSAL OF PROJECT WASTES NOTE THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DEPOPE OF ALL BULDING MATERIALS MAD WASTES AN ACCORDANCE WITH THE PERFARENT'S SOUL WASTE MANAGEMENT REPLANDED AT 28 PA COCIE 260. If SIGO, 271. If IT SIGO, AND 2871 ET SIGO. THE CONTRACTION SHALL NOT LIEGALLY BURY, DUUP OR DISCHARGE ON BULDING MATERIAL WASTES AT THE SITE. "PROCEDURES WHICH ENSURE THAT THE PROPER MEASURES FOR THE RECYCLING OR DISPOSAL OF MATERIALS ASSOCIATED WITH OR FROM THE PROJECT SITE WILL BE UNDERTAKEN IN ACCORDANCE WITH DROBERTAKEN ACCORDANCE WITH DROBERTAKEN ACCORDANCE NONLOUALS RESPONSIBLE FOR EARTH DISTURBANCE ACTIVITIES MUST ENGUISE THAT PROPER MICHANISMS AND IN FACE TO CONTINCE, MASTE MATERIALS. CONSTRUCTION MASTE INCLUDIF, BUT SHARPING AND PROPERTY METAZEROU MAJERA OF MASTES AND TAMIDATED FROM THE CONSTRUCTION OF THE STE.
THE STEL CONTRACTOR MUST HOMEVER MAKE PROVISIONS FOR WASTE ASSOCIATE WITH
THE STEL CONTRACTOR MUST HOMEVER MAKE PROVISIONS FOR WASTE ASSOCIATE WITH
THE STELL CONTRACTOR MUST HOMEVER MAKE PROVISIONS FOR WASTE ASSOCIATE WITH
THE STELL CONTRACTOR MUST HOMEVER MAKE PROVISIONS FOR WASTE ASSOCIATE WITH
THE PROVISION OF THE STELL CONTRACTOR MUST HOME TO THE PROVISION OF THE STELL CONTRACTOR MUST HOMEVER MADE THE THE STELL CONTRACTOR MUST HOMEVER MADE THE STELL CONTRACTOR MUST HOME AND DESIRED. SHOULD IT BE REQUIRED THAT RECYCLING OR DISPOSAL OF MATERIALS BE REQUIRED, THE CONTRACTOR MUST CONTRACT THE COUNTY CONSERVATION STRICT AND/OR THE LOCAL PROMISSYMAND ADPARTMENT OF THE MOREOMENTAL PROTECTION OFFICES FOR FURTHER ASSISTANCE TO GETAIN THE REQUIRED INSTRUCTIONS AND/OR PERMITS FOR TRANSPORTING, STORING, USING, OR DISPOSING CONTRACTION ON STORING. CHEMICAL CONSTRUCTION MATTER.

ARTHRIBLE, ASSOCIATED WITH SEP RETALLATION AND REMOVE, SHALL SE REMOVED FROM STE AT FIRST PROPERTY OF THE ATTERNATION OF STEADY OF THE ATTERNATION OF THE EXTRANSIVES SCI. AND ROCK MATERIAL DUE TO SHE INSTITULATION, USE, AND REDUCIAL SHALL BE DISPLACED OF IN A PROPISE MANIER. IT IS RECOMMENDED THAT HEST MATERIALS DIFFER HE DISPLANTED THROUGHOUT THE SITE AS NEEDED, OR A MANCE STOOMEL LOCATED OR THE SITE SE PROVIDED, SHOULD THESE MATERIALS BE REQUIRED FOR MAINTERMANCE OF INPLEMENTED BURNE. THE OWNER SHALL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION, STABILIZATION, AND MANTENANCE OF ALL EROSION AND SEDMENTATION CONTROLS AND RELATED ITEMS INCLUDED WITHIN THIS FLAX. ANTICIPATED CONSTRUCTION WASTES DECISION CONTROL MATTING BULLDANG MATCH SUCKS, BRIDKS, SCRAP LIMBER, DRYWALL ETC. HOPE PARE TALKS SUCH AS CONCRETE BLOCKS, BRIDKS, SCRAP LIMBER, DRYWALL ETC. RUBBER SELAMT GEOTECHIE AND GEOTECHIE STORP ELECTRIC WIRING. SEMP SEDIMENT REMOVAL NOTE
SIDMINI REMOVED FROM MAPS SHALL HE DISPOSED OF IN LANDSCAPED AREAS CUTSIDE OF STEEP
SLOPES, WETLANDS, PLOCOPLANS OR DRAINAGE SHALES AND IMMEDIATELY STABILIZED, OR PLACED
IN TOPIOLS, STOCKHELS. POST CONSTRUCTION STORMWATER MANAGEMENT MAINTENANCE NOTES:
SEMENT REMOVED THOSE STORMWATER PROCESSORALD BE DEPOSED OF ACCORDING TO AN SECURITY OF THE STORMWATER PROCESSORAL BE DEPOSED OF ACCORDING TO AN SECURITY STRUCTURE SHALL BE TOPF FREE OF DEPOSE AT ALL THESE.

THE STATE OF ALL SEDMENT REMOVED FROM BMPS SHALL BE DIPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WITLANDS, FLOOPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPOSIL STOOPLAST. RESPONSIBLE PARTY: KHAN PARTNERSHP 1146 S. CEDAR CREST BOULEVARD

5.6.3 RE-VEGETATE AND REFOREST DISTURBED AREAS USING NATIVE SPECIES TRIE CALIPERS ARE MEASURED AT A HEIGHT OF FOUR AND A HALF FEET (4.5) ABOVE FINISHED GRADE. S.O.3 REVEGETATE AND RE-FOREST DISTURBED AREAS USING MATTINE SPECIES PART 2 : REVEGETATE AND REFOREST -TREE SPECIES ARE NATIVE SPECIES (ACCORDING TO APPENDIX A OF PENNSYLVANIA STORMMATER DESIGNATION AND SPIRE SECTIONS (ACCORDING TO APPROXE A OF PROMOTIVAN STORMANTE)

- UNDER HAM MANNEY CLUPPA AND EMMANA THE REPORT OF EVERY
- PRICE OFFICE AND EXPLORED TO STORMANTS MANAGED THE RECORDED ON RECORD PAIN FOR THE - PRICE SHALL BE ACCOUNTED FROM THE PROPRIES CONTRIBUTION.

- PRICE SHALL BE ACCOUNTED FROM THE PROPRIES CONTRIBUTION.

- PRICE SHALL BE ACCOUNTED FROM THE PROPRIES FOR THE REPORT (OF WATER OF MANY OFFI THE PROPRIES FOR THE REPORT OF THE REPORT OF THE PROPRIES FOR THE PROPRIES FOR THE PROPRIES FOR THE REPORT OF THE PROPRIES FOR THE PROPRIES ANY CHANGES TO SPECIES OF RE-VEGETATE/REFOREST IS REQUIRED TO BE REVIEWED AND APPROVED BY LCCD AND THE CITY OF ALLENTOWN. SYLVANIA STORMMATER BEST MANAGEMENT PRACTICES MANUAL CHAPTER 8 2 REVECETATE AND REFOREST COLVE ORDER FOR PARTHING TREES, THE FOLLOWING CRITERIA MUST BE MET: EES MUST BE NATIVE SPECIES (SEE APPENDIC), MINIMUM 2"CAUPPR, MINIMUM TREE HIDGHT STATES SHALL BE MANNES SECONDS OF APPEARANT, MEMORIAL TO SHALL BE ACCOUNTED FROM THE OFFICE OF THE STATES SHALL BE ACCOUNTED FROM THE OFFICE OF CANADA AND EXCHANGE AND EXCORPTION OF RECORD THE UTIL OF THE PROJECT (OF TAKES SHALL BE MANNEARD AND PROTECTED FOR THE UTIL OF THE PROJECT (OF TAKES OF KINTLE OF THE OFFICE OF TAKES SHALL BE MANNEARD AND PROTECTED FOR THE UTIL OF THE PROJECT (OF TAKES) OF KINTLE OF THE OFFICE OF TAKES SHALL BE MANNEARD AND PROTECTED FOR THE UTIL OF THE PROJECT (OF TAKES) OF KINTLE OF THE OFFICE OFFICE OF THE OFFICE OF THE OFFICE OF DRAWNES NO RELATIONS OF CONSTRUCTION DEAD THE LIFE OF THE PROACH (SU TANNS) VI-SI THESE SOLL IS WANTAINED AND PROTECTION THE LIFE OF THE PROACH (SU TANNS) VI-SI NO MORE THAN 255 OF THE REMOTE VILLAGE ON SE MIDIATIO THROUGH THE USE OF THESE. SECOND SHALL SE PROMOTE OF THE REPLACEMENT OF ANY PROTECTION THE SUSPECT STORMANTER CREDIT THAT DE WITHIN 5 YEARS OF CONSTRUCTION, DEAD TREES SHALL SE REPLACED WITHIN SECOND SHALL SERVICE OF THE STORMANTER. MONTHS.

3 SHALL BE LOCATED ON THE DEVELOPMENT PROJECT.

8 MAY BE APPLIED FOR TREES REQUIRED UNDER STREET TREE OR LANDSCAPING REQUIREMENTS.

1 MAY BE APPLIED FOR TREES PLANTED AS PART OF REPARAN BUFFER IMPROVIMENT. CALLEY AND CUALITY
A VALUE REDUCTION MAY BE ORDITED BASED UPON THE ENSTING TREE CAMOPY.
VALUE REDUCTION OF ST. 6 FT3
FOR CATALOGUES TREES.
FOR CATALOGUES TO FT3 = 10 FT3. PEAK RATE AND CHANNEL PROTECTION
THE PEAK RATE FOR FLOCO PROTECTION AND CHANNEL PROTECTION WILL SE REDUCED BY THE
PROPERTY HIP PROTECTION AND CHANNEL PROTECTION WILL SE REDUCED BY THE 363-0300-002 / DECEMBER 30, 2006 PAGE 24 OF 46 ** TREES HAVE BEEN USED FOR WATER QUALITY CREDITS ONLY

STREET SWEEPING : THE STREET SWEEPING SHALL BE COMPLETED BY THE OWNER IN ACCORDANCE WITH
THE CITY OF ALLENDOWN ON A QUARTERLY BASIS, AT THE MINIMAN.

THE CHIT OF ALLEGORIES OF A AMERICAN SHOOLS, AT THE SHROWS,

OFFICENCY, AND AMERICANCE PROCEDURE OF ESSERT WITH A DRY VACCIOUS PLUTE SHEEPER AT
A MERICAN OF A THINK SEE TATE (CHICAGY SPACED), MOST SHEEPER ANY SEE REQUIRED BRIDGE
OF THE AMADEM OF SILES AND PROSE RESERTS IN THE SET SEPECTIVE PACIFIANT OF SILES AND PROSE SHEEPER AND THE SILES AND PROCEDURE OF SILES AND PROSE SHEEPER AND THE SILES AND THE SIL

TYPE.

4. SMEEPING SHALL OCCUR DURING DRY PERIODS.

5. SMEEPING THAT ARE CANCELED SHALL BE RESCREDULED AS NEEDED.

5. SMEEPING THAT ARE CANCELED SHALL BE RESCREDULED AS NEEDED.

5. SMEEPING SHALL BE WONTROMED TO ENSURE THAT THE SMEEPING SCHEDULE IS ACCOUNTED. STREET SWEEPING SCHEDULES:

<u>ROUTINE SCHEDULE</u> STREET SWEEPING SHALL BE PERFORMED A MINIMUM OF FOUR TIMES PER YEAR (EVENLY SPACED). NON-BOUTINE SCHEDULE SHALL BE PERFORMED ON AN AS-NEEDED BASIS.

BMP 6.6.3: DRY EXTENDED DETENTION BASIN

RIME 6.6.3: DRY EXTRADED DETENTION BASIN

CONTRICTION EXCORDED AND STREET CONTRICTION OF THE STR

MAINTENANCE IS NECESSARY TO ENSURE PROPER FUNCTIONALITY OF THE EXTENDED DETENTION BASIN AND SHOULD TAKE PLACE ON A GUARTERLY BASIS. A BASIN MAINTENANCE PLAN SHOULD BE DEVELOPED WHICH OCLUES THE FOLLOWING MEASURES:

-ALL BRAIN STRUCTURES EXPECTED TO RECEIVE AND/OR THAP DEBMS AND SEXURINT SHOULD BE INSPECTED
FOR CLOOMIC AND EXCESSIVE DEBMS AND SEXURIT ACCUMULATION AT LEAST FOUR TIMES FER YEAR, AS
WILL AS AFTER EXPECT STROM (ORATE THAN) INCA!

- STRUCTURES NOLICE BLASH BOTTOMS, TRASH RACKS, OUTLETS STRUCTURES, REPRAY OR GABION
STRUCTURES, AND MEETS.

SIRULLINES, AND INLETS.
SEMENT REMOVAL SHOULD BE CONDUCTED WHEN THE BASIN IS COMPLETELY DRY, SEDWENT SHOULD BE DEPOSED OF REPORTER, AND ONCE SEDWENT IS REMOVED, DISTURBED AREAS NEED TO BE IMMEDIATELY. DEVICED TO PROFILE FAMILY AND THE SERVER IS RESPONDED, INSTRUMENT AND THE SERVER FAMILY OF SERVER AND THE SERVER FAMILY OF SE

PROJECT INFORMATION
PROJECT NAME: CUMBERLAND APARTMENT COMPLEX

HANNO A TITLE OF THE PROPERTY OWNER BUSINESS THE PROPERTY OWNER OF THE PROPERTY OWNER WITHOUT THE PROPERTY OWNER WITHOUT THE PROPERTY OWNER WITHOUT THE PROPERTY PROVIDED THE PROPERTY OF THE PROPERTY OWNER EXCELLED THE SAME FOR THE PURPOSES THAT THERE NO CONTAINED.

IN WITNESS WHEREOF, I HEREUNTO SET MY HAND AND OFFICIAL SEALS.

NOTABY PUBLIC

PROPERTY OWNER NAME: KHAN PARTNERSHIP

SOIL LIMITATIONS AND RESOLUTIONS
THESE ARE THE LIMITATIONS AND RESOLUTION THAT AFFECT THE ON SITE SOLS FOR THIS PROJECT:

THE CONTROL OF THE PROPERTY OF

DEPTH TO SATURATED ZONE/SZACZNAL HERY BASES TABLE

IF WATER IS ADMONITED DAMINE ECONOMINO OR TERDEDHING, A PAINTD WATER BAG SHALL, BE USED

TO REMOVE SECREMENT FROM THE WATER REFORE IT IS DISCHARGED TO A STABILIZED LOCATION. (SEE

BAS DRAWNED FOR ESTALS.). CUTBANKS CAVE EXCAVATION - EXCAVATION SHALL BE SHALLOW IF SHALLOW IS NOT POSSIBLE USE TRENCH BOXES OR SHORING AS REQUIRED TO MEET OSHA REQUIREMENTS AND LOCAL CONDITIONS.

LOW STRENGTH/AANDSLIDE - DO NOT PERFORM TRENCHING, PRONE BACKFILLING OR COMPACTING WHEN WEATHER CONDITIONS OR THE CONDITION OF MATERIAL IS SUCH, IN THE OPINION OF THE ENGINEER, THAT WORK CANNOT BE PREFORMED SATISFACTORY. PIPING - ANTI-SEEP COLLARS ARE TO BE UTILIZED, AS NEEDED

WHITE GRADING SMALL DONE IN A CAMEFUL MANNER, EXTRA STABILIZATION METHODS MAY BE NEEDED TO STABILIZE DISTURBED EARTH UNITE. THE GROWNO SEASON, SEE THE GENERAL EROSION CONTROL. ERCOMBLE SOLS
SMALES AND SLOPES ARE DESIGNED WITH EROSION CONTROL MATTING TO PREVENT EROSION UNTIL
PRIMARMENT STABILIZATION IS ESTABLISHED.

POOR SOURCE TO TOP SOIL AN ONSITE INVESTIGATION REVEALED SUFFICIENT AMOUNTS OF FILL AVAILABLE FOR THE PROJECT. WETNESS
SOIL TESTS ARE RECOMMENDED TO DETERMINE THE PROPER APPLICATION OF SOIL AMENDMENTS TO PROMOTE THE ORDWITH OF THE DESIRED VECETATION.

SHRIKE — SWELL
DO NOT USE BACKFILL MATERIALS CONTAINING MOISTURE IN EXCESS OF THE AMOUNT NECESSARY FOR
COMPACTION.
THE AVAILABILITY OF ROADFILL.
AN CHAITE INVESTIGATION REVEALED SUFFICIENT AMOUNTS OF FILL AVAILABLE FOR THE PROJECT. ALSO KEEP A RIPED WATER RIPED SOFT THE BOOK STATE SINCE GROUND WATER MAY BE ENCOUNTERED DURNO GROUND AND TRIVINGH STORE GROUND WATER MAY BE ENCOUNTERED DURNO GROUND AND TRIVINGH STORE CETABOL STORE CETABOL SHOWS FOR CETABOL. THE REPORT OF THE TRIVINGH STOTE SOLS ONSITE.

THERE SOLS SHOULD NOT LIMIT THE PROPOSED DEVICTORMENT.

BMP INSPECTION NOTE: THE OWNER SHALL MAINTAIN A LOG DETAILING ALL INSPECTIONS AND MAINTENANCE PERFORMED ON STORMWATER BMP'S, THE LOG SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO THE CITY REGULATORY OFFICIALS AT THE TIME OF THEIR INSPECTION.

RESPONSIBLE PARTY DATA:

DEVELOPER KHAN PARTNERSHP / APPLICANT: 1146 S. CEDAR CREST BOULEVARD

PARCEL INFORMATION

SOIL CLASSIFICATION
THIS SOIL TAKEN FROM THE SOIL SURVEY OF LEHIGH
COUNTY, PA PERFORMED BY THE U.S. DEPT. OF
AGRICULTURE SOIL CONSERVATION SERVICE, DATED
NOVEMBER 1963, THIS SITE IS FOUND ON MAP PAGE

MADE LAND, LIMISTON MATERIAL — 6% SLOPES*

MATERIAL DESCRIPTION MATERIAL — 6% SLOPES*

MADE LAND, LIMISTON MATERIAL — 6% SLOPES*

MADE LAND, LIMISTON MATERIAL — 10% SLOPES*

MADE LAND, LIMISTON MATERIAL — 20% SLOPES

MADE LAND, LIMISTON MAT

ENGINEER'S CERTIFICATION

ENGINEERS CERTIFICATION.

IMPORTED WHENING TO HERST CERTIFITY THAT I AM A PROFESSIONAL DISSINGER CONTINUED TO THE CONSCIONAL DISSINGER CONTINUED TO THE CONSCIONAL TO THE CONSCIONAL TO THE CONSCIONAL TO THE CONTINUED AND A CONTINUED TO THE CONTINUED AND A CONTINUED AND A

MICHAEL V. MINERVINI P.E. 071233 DATE BENCHMARK CIVIL ENGINEERING SERVICES, INC. 1727 JONATHAN STREET ALIENTOM. PA. 18104

PLANNING COMMISSION APPROVAL:
THE WITHIN PLOT OR PLAN OF LAND LOCATED IN ALENTOWN,
LEHGH COUNTY PROSNELVAMA, WAS APPROVED BY THE
ALENTOWN CITY PLANNING COMMISSION.

PLANNING DIRECTOR DATE LEHIGH VALLEY PLANNING COMMISSION

DEMEMBO

IDENTIFICATION OF THE NATURALLY OCCURRING GEOLOGIC FORMATIONS

GENUCCIGIC FUNNALIUM.

SO SOL COMPORTION HIM MY HAVE THE POTENTIAL TO CAUSE POLIUTION DURING EARTHCETIMANENE CETIMANE AND PRILICES BAND TO AND OR MANUAL POTENTIAL POLIUTION

BE STALL CONTIFE AND PRILICES BAND TO AND OR MANUAL POTENTIAL POLIUTION

CETIMA HAVE SELVEN MASSET TO THE TANK SELV. PROPER COLD BOALDS BE MANUAL TO

EVALUATE THE SELVEN MASSET TO THE TANK SELV. PROPER COLD BOALDS BE MANUAL TO

MANUAL PROPERTY OF THE SELVEN SE THROUGH DESIGNER MILL BE CONTACTO CONCINNEN MINISTORIA CONTACTO, TO ELEMENT CONTACTO CONTACTO CONCINNENT CONTACTO CONTAC

IDENTIFICATION OF POTENTIAL THERMAL IMPACTS THE PROJECT PROPOSES REQUINED CRETCHING MEMORIANS, SHAPPICES, THE STOLE PROPOSES MEMORIAN CHARGE AND AN ARCHITECTURE AND ARCH

E&S PLAN CONSISTENT WITH PCSM PLAN. THE EAS PLAN SHALL BE PLANNED, DESIGNED AND IMPLEMENTED TO BE CONSISTENT WITH PICEN PLAN UNDER \$ 10.28 (RELATING TO PICEN REQUIREMENTS). UNLESS OTHERWISS APPROVED BY THE DEPARTMENT, THE EAS PLAN SEPARATE FROM THE PICEN PLAN AND LABELED "EROSION AND SEDMENT CONTROL PLAN" AND BE THE FINAL PLAN FOR

IDENTIFICATION OF EXISTING AND PROPOSED.
RIPARIAN FOREST BUFFERS,
THISSE ARE NO EXISTING OR PROPOSED RIPARIAN FOREST BUFFERS ASSOCIATED WITH THIS PROCECT.

LAND USE: MANUFACTURING PRIOR TO 2005
PRESENT LAND USE: VACANT LOT FOR THE PAST 17 YEARS.
PROPOSED LAND USE: PAPARTMENTS

PCSM WAIVERS THE PROJECT IS NOT REQUESTING ANY WAIVERS FOR ALTERNATIVE ANALYSIS FOR COMPLIANCE WITH REPARTAN BUFFERS.

THIS PROJECT HAS A SEE MANAGEMENT FLAN IN PLACE BHOM MUST BE THIS PROJECT HAS A SEE MANAGEMENT FLAN IN PLACE BHOM MUST BE SERVICIOSE FOR EARTH INSTRUMENT SHALL BEAU AND FOLLOW THE RECOMMENDATIONS IN THE SOIL MANAGEMENT FLAN REPORT PREPARED BY OTA FOR THIS PROJECT. THE OFENEL SOIL MANAGEMENT FLAN REPORT HOUSE OF THE SOIL MANAGEMENT FLAN REPORT. BELLOW (PPOES PLAN SHEET 10) ACCOMPANIES OTA'S SOIL MANAGEMENT FLAN REPORT.

THE CRITICAL STAGES OF IMPLEMENTATION OF PCSM BMP'S FOR WHICH A LICENSED PROTESSIONAL OR DESIGNEE SHALL BE PRESENT ON SITE HOLIUDE THE!

1) THE CONSTRUCTION OF DRY EXTENDED DETENTION BASINS 1, 2, 3, 4 AND 5.

2) THE CONSTRUCTION OF THE PROPOSED INLETS WITH SUMP.

3) THE INSTALLATION OF WATER QUALITY TREES

THESE BMP'S ARE REQUIRED TO BE INSPECTED DURING INSTALLATION AND MUST BE SIGNED OFF ON PRIOR TO NOTICE OF TERMINATION. THE RESPONSIBLE PARTY, AMO/OR AN AGENT OF SUCH AS WELL AS THE CESIGN PROFESSIONAL, AMO/OR AN AGENT OF SUCH WILL BE PRESENT ON-SITE DURING THE INSTALLATION OF THE PROFEOSIOD BMP'S.

FILL MATERIALS

CILL MALENALS

SHE THE SECRET THE OFFICE AT THE REPORTED TO THE PROPERTY OF TH

FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REQULATED FILL. REQULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEP'S MEMOPIAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 FA. CODE GHAPTERS STRESDUAL WASTE MANAGEDIST, TWO-THEN'S REAPPLICATED, WASTE MANAGEDIST, TWO-THEN'S RE-APPLICATED.

STABILIZATION NOTES

STABILIZATION NOTES

WHO, COMPLION ON A MAIN DISTRIBUTE ACTIVITY OF ANY STAGE OF PARKET OF ANY CONTROL OF A MAIN DISTRIBUTE AND STAGE OF THE ACTIVITY. HE OPPOSED SHALL STAGE THE MAIN THE OPPOSED SHALL STAGE THE ACTIVITY AND A MAIN THE OPPOSED SHALL SHA

TOPSOIL SUPPLEMENT AND SPECIFICATIONS MARIANTS ATTER EACH SECTION OF THAL PRACTICE HAS EAST CONFIETTO, ALL DESTRIBED AGES SHALL BE FERMANDIANT STRANGED. IN OLD WITH THE ATTER DESTRIBED AGE SHALL BE FERMANDIANT STRANGED. AND OWNER THE ATTER DESTRIBED AGE AND ACCORDANCE TO THE STROTCHASTICS WHICH THE ADMINISTRANCE ACCORDANCE TO THE STROTCHASTICS WHICH ADMINISTRANCE ACCORDANCE TO THE STROTCHASTICS WHICH ADMINISTRANCE TO COMPARE THE STROTCHASTICS WHICH ADMINISTRANCE TO CONFIDENCE AND ACCORDANCE AND THE STROTCHASTICS WHICH ADMINISTRANCE THE CONFIDENCE THE WASHINGTON THE THE STROTCHASTICS WHICH ADMINISTRANCE AND ACCORDANCE THE CONFIDENCE WHICH ADMINISTRANCE AND ACCORDANCE THE CONFIDENCE WHICH ADMINISTRANCE AND ACCORDANCE AND ACCOR

OWNERSHIP, OPERATION AND MAINTENANCE OWNERSHIP. OPERATION AND MAINTENANCE.

18 PAPER, THE PROMOTES BY ONE OWNERS OF THE PROPERTY, OWNER OF THE PROPERTY OF THE PROP

CUMBERLAND APARTMENT COMPLEX

CITY OF ALLENTOWN WARD 12

THE YASIN KHAN 2021 FAMILY TRUST 1146 S. CEDAR CREST BLVD.

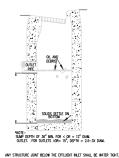
ALLENTOWN, PA 18103

Benchmark CML ENGINEERING SERVICES, INC. 1727 JONATHAN STREET ALLENTOWN, PA 18104 610.776.6700 610.776.1190 FAX www.bencivil.com · CIVIL ENGINEERING · TRAFFIC ENGINEERING · SURVEYING

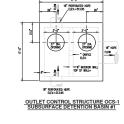
POST CONSTRUCTION STORMWATER MANAGEMENT PLAN - NOTES

DESIGN: PAS PLAN DATE: 08/16/22 DWS. NO. SCALE: AS NOTED PCSM-2 DWG. FILE: 858002 SHT. NO.: 22 OF 2

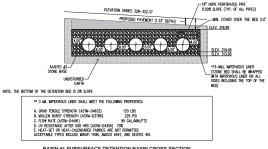




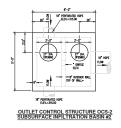
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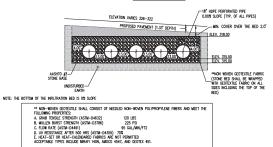
BED SIZE = 40' x 208'



BASIN #1 SUBSURFACE DETENTION BASIN CROSS-SECTION



BED SIZE = 60' x 150'



BASIN #2 SUBSURFACE INFILTRATION BASIN CROSS-SECTION



CITY OF ALLENTOWN, WARD 12 LEHIGH COUNTY, PENNSYLVANIA

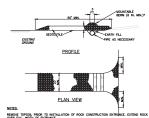
THE YASIN KHAN 2021 FAMILY TRUST

1146 S. CEDAR CREST BLVD. ALLENTOWN, PA 18103

COL ENGREPHIC STRICES, MC.
1727 JONATHAN STREET
ALLENTOWN, PA 18104
610.776.6700 610.776.1190 FAX
www.bencivil.com
- CML ENGREPHIC - SURVEYING
- CML ENGREPHIC - SURVEYING

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN - DETAILS

DESIGN: PAS PLAN DATE: 08/16/22 DW SCALE: AS NOTED PCSM-3 DRAWN: JDG SURVEY DATE: DWG. FILE: 858002 SHT. NO.: 23 OF 2



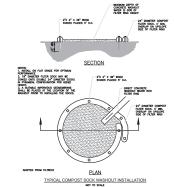
REDUCE TO FESSE, RISOL TO, REPLACED OF ROCK CONSTRUCTION BITMANCE, EXTEND ROCK REAL FOR SHALL BE CONSTRUCT ROUN ROCKING TO A SUITABLE SEGMENT REMOVAL, BAR PRICE TO ENTERING ROCK CONSTRUCTION, DEFENDENCE FOR CONSTRUCTION, DEPENDENCE FOR CONSTRUCTION, DEPENDENCE FOR CONSTRUCTION, DEPENDENCE FOR CONSTRUCTION, SPECIAL DEPENDENCE FOR CONSTRUCTION,

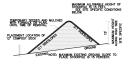
SAUL SE SZED AMPROPRIATE YOR SZED OFFOR SIED CHESICO (SIED).

MINTENNACE DOCUSTRICTION DITTENACE THOOSESS SAUL SE CRISTIANTY MANTANES.

FOR HAP FARFORE, ALL SERVANT EXPOSITED OR PARTS ROCKAMYS SAULA SE SIEDAUT. SAULA SERVANT S

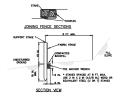
STANDARD CONSTRUCTION DETAIL #3-1 ROCK CONSTRUCTION ENTRANCE





STOCKPILED (TOPSOIL AND SUBSOIL) & FILL MATERIAL

MANIFERANCE: 1. THE STORPHED TOPSOL AND FILL MATERIAL WILL BE INSPECTED ON A DALY RASS AND 2. FIRE STORPHES WILL BE TEUPORARY SEEDED AND MILCHOE AT ALL TRIBES. 2. ALL STOROGHES WILL BE TEUPORARY SEEDED AND MILCHOE AT ALL TRIBES.



SCIENCE, CALL, THE SE SEASON PROTESTES AS SHOWN IN THAT AS O'THE PA DOT SHOWN OFFICE MANUAL PLANT PROTESTES AS SHOWN IN THAT AS O'THE PA DOT SHOWN OFFI THE SHOWN OFFI THE

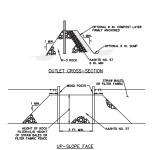
NOTES: WHEN FACE SHALL BE SO FEET (MAN, WIDE OR TOTAL WOTH OF ACCESS.

WHEN AND SHALL BE SEGRED AND CONSTRUCTED TO ACCOMMODATE ANTICIPATED CONSTRUCTION SHOULDER TRAFFIC.

AN MATER SPEPLY SHALL BE MADE AVALABLE TO WASH THE WHEELS OF ALL VEHICLES DITTING THE STIT.

THE STILL MANIFEMENT SHOULD SHARK THEORY SHALL BE CONSTANTLY MANIFAMED TO THE SPECIAL DIMENSIONS BY ADDING BOCK. A STOOPILE OF BOCK MASSAM, SHALL BE MANIFAMED TO THE SPECIAL DIMENSIONS BY ADDING BOCK. A STOOPILE OF BOCK MASSAM, SHALL BE MANIFAMED AND SHALL BE REPAIRED PROFE TO FURTHER HOW AND A SHALL BE REPAIRED PROFE TO FURTHER HOSE OF THE PLACE. ALL SEEDING! COPIETED OR BOOWNATS SHALL BE REDWIND AND STREETING TO THE PLACE ALL STREETING TO THE STREETING TO THE PLACE ALL STREETING TO THE STREETING TO THE STREETING TO THE PLACE ALL STREETING TO THE STREETING TO THE PLACE ALL STREETING TO THE STREETING THE

STANDARD CONSTRUCTION DETAIL #3-2
ROCK CONSTRUCTION ACCESS WITH WASH RACK



NOTES.

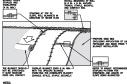
A ROOF FILTER OUTLET SHALL BE INSTALLED WHERE FAILURE OF A SLT FENCE OR STRAIN BALE BURRIER HAS OCCURRED DUE TO CONCENTRATED FLOW. ANOHORED COMPOST LAYER SHALL BE USED ON UPSCOPE FACE IN HIQ AND EV WATERSHEDS.

SEDIMENT SHALL BE RENOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET

STANDARD CONSTRUCTION DETAIL #4-6

ROCK FILTER OUTLET

NOT TO SOLIE



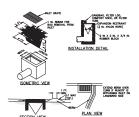
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THE EARTH FOUL RE SANDS IN ACCOUNTER WITH THE WARRACTURE'S ECOMMISSION.

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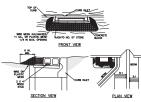


MOTION.

MINISTRA DIRAMACE AND, NOT AR ROBARD TOR HALT MINISTRAY TO DIRACT MADE ON CHARGE THE ADMINISTRAY TO DIRACT MADE ON CHARGE THE ALL MINISTRATION TO DIRACT MADE ON CHARGE THE ALL MINISTRATION CHARGE THE ALL MINISTRAY TO DIRACT MADE ON THE ALL MINISTRAY THE A

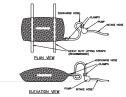
NLET FILTR BACK SHALL BE INSPECTED ON A MEDIA'S BASIS AND AFTER EACH RANDOF CHEMT. AND SHALL BE LIMITED AND ROSIZED OF BETALLOOF WHICH HAVE LILL ON WHICH THE CHAMPEN CHEMT. THE SHEET HAS BEEN REQUESTED SO AS TO CAUSE FLOCKING ON BYANSBOAD OF THE BLEFT, TO REPLANCE HAVE THE SHEET HAVE BEEN REPLAYED BY BASIS AND LILL OF WITH BEBUILDING OF THE HAVE BEEN BY BASIS AND LICE OF WITH BEBUILDING OF THE HAVE BEEN BY BASIS AND LICE OF WITH BEBUILDING OF THE HAVE BOTH OF ALLOWING AND THE HAVE BOTH OF THE H

DO HOT USE ON MAJOR PAVED POADWAYS IN-EDIE PONDING MAY CAUSE TRAFFIC HAZARDS.
STANDARD CONSTRUCTION DETAIL #4-15
FILTER BAG INLET PROTECTION - TYPE C INLET



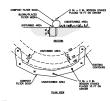
MICHIES MANIMALE PRIMATE A TAPICE AND THE STATE OF STATE

STANDARD CONSTRUCTION DETAIL #4-17
STONE AND CONCRETE BLOCK INLET PROTECTION - TYPE C INLE
MOT TO SCALE



LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-BOXEN GEOTECHTE MATERIAL SERN WITH HOM STRENGEN, DOUBLE STEDIOED "IT THE SEARS, THEY SHALL BE CAPABLE OF TRAFFING PARTICLES LADGE THAN TO MOREOUS HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WORNIN GEOTECHTES THAT MIGHT THE

PROPERTY	TEST METHOD	STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
CRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
40S % RETAINED	ASTM D-4751	80 SIEVE



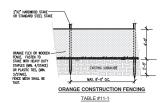
STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK NOT TO SCALE

	920	POST SOCK FAME	MINMUM SPECIFIC	ADONS	
MATERIAL TYPE	3 ML HOPE	5 ML HOPE	5 ML HEPE *	MULTI-FEAMONT POLYPROPYLEME (MEPP)	HEAVY DUTY MULTI-FILAMEN POLYPROPHLEN (HOMEPP)
WATERIAL CHARACTERISTICS	PHOTO- DEGRADABLE	PHOTO- DESPANABLE	BIO- DESPAÇABLE	PHOTO- DEGRAÇABLE	PHOTO- DEGRAGABLE
SOCK DIAMETERS	12	12. 25. 26.	12 ⁴ 24° 34°	12" 18" 28" 32"	32°
WESH CPENING	3/6"	3/6"	3/6"	3/6"	1/8"
TENSILE STRENGTH		26 PSI	26 PSI	44 PS	202 PSI
ULTRAVOLET STABILITY N OTIONAL STRENGTH (ASTM G-156)	235 AT 1000 HP.	23% AT 1000 HR.		100% AT 1000 HR.	100% AT 1000 HR.
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEARS
		TRO-P	A EASTERN	_	
INNER CONTAINMENT			HOPE BLACK NET OF THE CONTROL OF THE	OND DETURES	
OUTER FILTRATION ME	SH		AND MAN APET		b ₀

* INDICATES THE LINING TYPE TO BE USED IN THIS PROJECT.

TABLE 4.2 COMPOST STANDARDS		
ORGANIC MATTER CONTENT	25% - 100% (DRY WEIGHT 6#95)	
ORGANIC PORTION	FIBROUS AND ELONGATED	
PH	55-85	
MOISTURE CONTENT	325-625	
PARTICLE SIZE	305-505 PASS THROUGH 3/8" SEVE	
SOLUBLE SALT CONCONTRATION	5.0 DS/N (MAHDS/CN) MXXMUM	

FILTREXX SOXX
PROVIDER/INSTALLER
HILLIOP SERVICE INC.
16403 POTTSWILE PIKE
HAMBURG, PA 19528
(610)-562-3124
FAX: (610)-562-9653



DEPTH (IN.)	PER 1,000 SQUARE FEET	PER ACRE
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.6	806
7	21.7	940
8	24.8	1,074

П			
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NO	REVISION	BY	DATE
- DI	OD ECT.		$\overline{}$

CITY OF ALLENTOWN, WARD 12 LEHIGH COUNTY, PENNSYLVANIA						
CLIENT:						
THE	YASIN KHAN 2021 FAMILY TRUST					
	1146 S. CEDAR CREST BLVD.					

CUMBERLAND APARTMENT COMPLEX

CIVIL ENGINEERING SERVICES, INC. 1727 JONATHAN STREET ALLENTOWN, PA 18104 610.776.6700 610.776.1190 FAX

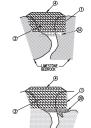
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**CIVIL ENGNEERING * TRAFFIC ENGNEERING * SURVEYING

TITLE:

**POST CONSTRUCTION STORMWATER

MANAGEMENT PLAN - DETAILS							
DESIGN: PAS	PLAN DATE: 08/16/22 DWG. NO						
DRAWN: JDG	SCALE: AS NOTED PC	SM-4					
(a a a a		*******					



 EXCAVATE DOWN TO ROCK TO SINKHOLE THROAT OR TO A DEPTH OF 58 FEET BELOW GRADE, WHICHEVER OCCURS FIRST

IN BUILDING STRUCTURAL AREAS, IF ROCK IS NOT

28. IF ROOK IS ENCOUNTERED: CLEM SUBFACE AND PLACE HOH-SLIMP CLIMBT GROUT INTO OPEN VIGIS AND ORACE OF GROUT DO NOT FILL VOICE, MED. IF SEVERA CUBIC YARDS OF GROUT DO NOT FILL VOICE, USE A STIFFER, LEAN CONCRETE MIX. IF A SINHOLE IS ENCOUNTERED POST-CONSTRUCTION, COMPACTION GROUTING IS RECOMMENDED.

AFTER CONCRETE HAS SET OVERNIGHT, BACKFILL HOLE WITH RELATIVELY IMPERMEABLE SOIL. COMPACT SOIL IN 6" LIFTS WITH A POWER TAMPER OR RAIMMER. TWO COMPLETE COVERAGES SHOULD BE USED ON EACH LIFT.

 BACKFILL HOLE ABOVE EXISTING GRADE TO DIVERT SURFACE WATER.

 WHEN SINKHOLE IS UNDER A PROPOSED UTILITY, CONCRETE IS TO BE SET 6" BELOW THE UTILITY TO ALLOW FOR A STONE REDDING.

 SINKHOLE REMEDIATION SHOULD BE PERFORMED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER.

SINKHOLE CONDITIONS

