

GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH, INSTALL, TEST AND COMPLETE ALL WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION; AS SUCH, THESE PLANS DO NOT COMPLETELY REPRESENT, NOR ARE THEY INTENDED TO REPRESENT, ALL SPECIFIC INSTRUCTIONS REQUIRED FOR SITEWORK CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO CONSTRUCT ALL IMPROVEMENTS DEPICTED ON THESE PLANS IN ACCORDANCE WITH ALL APPLICABLE RULES, REGULATIONS AND LAWS IN EFFECT AT THE TIME OF CONSTRUCTION.

2. THE CONTRACTOR SHALL ACCEPT THE SITE AS IS. THE CONTRACTOR SHALL ASSESS CONDITIONS, AND THE KIND, QUALITY AND QUANTITY OF WORK REQUIRED. THE OWNER AND ENGINEER MAKE NO GUARANTEE IN REGARD TO THE ACCURACY OF ANY INFORMATION THAT WAS OBTAINED DURING INVESTIGATIONS. THE CONTRACTOR SHALL: MAKE A THOROUGH SITE INSPECTION IN ORDER TO FIELD CHECK EXISTING SITE CONDITIONS; CORRELATE CONDITIONS WITH THE DRAWINGS; AND, RESOLVE ANY POSSIBLE CONSTRUCTION CONFLICTS WITH THE OWNER AND ENGINEER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL PERFORM ADDITIONAL TOPOGRAPHIC SURVEYS HE/SHE DEEMS NECESSARY, PROVIDED THEY ARE COORDINATED WITH THE OWNER. ANY CONDITIONS DETERMINED BY THE CONTRACTOR THAT DIFFER FROM THE INFORMATION SHOWN ON THE DRAWINGS THAT ARE NOT BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER PRIOR TO THE START OF WORK SHALL NOT BE CONSIDERED GROUNDS FOR ADDITIONAL PAYMENT OR CHANGES TO THE CONTRACT DURATION, OR ANY OTHER CLAIMS AGAINST THE OWNER OR OWNER'S ENGINEER.

3. THE CONTRACTOR SHALL, WHEN HE/SHE DEEMS NECESSARY, PROVIDE A WRITTEN REQUEST FOR INFORMATION (RFI) TO THE OWNER AND/OR OWNER'S DESIGNATED REPRESENTATIVE, AND ENGINEER PRIOR TO THE CONSTRUCTION OF ANY SPECIFIC SITEWORK ITEM. THE (RFI) SHALL BE IN A FORM ACCEPTABLE TO OWNER AND/OR OWNER'S DESIGNATED REPRESENTATIVE, AND ENGINEER AND SHALL ALLOW FOR A MINIMUM OF THREE WORK DAYS FOR A WRITTEN REPLY. RFIS SHALL BE NUMBERED CONSECUTIVELY BY DATE SUBMITTED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITEWORK ITEMS CONSTRUCTED DIFFERENTLY THAN INTENDED OR AS DEPICTED ON THE PLANS.

4. INFORMATION RELATED TO ELEVATIONS AND PROPOSED UTILITIES (SUCH AS ROADWAY GRADES, INVERT ELEVATIONS, RIM ELEVATIONS, GRATE ELEVATIONS, BUILDING FINISHED FLOOR ELEVATIONS, ETC.) MAY BE FOUND IN MORE THAN ONE LOCATION IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL SUFFICIENTLY REVIEW ALL PLANS, PROFILES AND ANY OTHER INFORMATION IN THE CONTRACT DOCUMENTS FOR CONSISTENCY PRIOR TO BID. ANY INCONSISTENCIES OR DISCREPANCIES THAT ARE FOUND BY THE CONTRACTOR OR HIS ASSIGNS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER IN WRITING, IN THE FORMAT OF AN RFI

5. THERE ARE ADDITIONAL NOTES, SPECIFICATIONS AND REQUIREMENTS CONTAINED THROUGHOUT THE PLAN SET AS WELL AS REFERENCES TO SPECIFICATIONS FROM APPLICABLE GOVERNING AUTHORITIES AND INDUSTRY STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, REVIEW AND ADHERE TO ALL THESE DOCUMENTS.

6. CONTRACTOR IS SPECIFICALLY CAUTIONED THAT ALL CONSTRUCTION STAKEOUT FOR THIS PROJECT MUST BE COMPLETED FROM THE SITE SPECIFIC SURVEY CONTROL (HORIZONTAL AND VERTICAL) UPON WHICH THE DESIGN IS BASED. THE CONTRACTOR SHOULD NOT RELY ON OR RE—ESTABLISH SURVEY CONTROL BY GPS OR OTHER METHODS FOR USE IN CONSTRUCTION STAKEOUT OR ANY OTHER PURPOSE FOR THIS PROJECT. ANY DISCREPANCIES BETWEEN THE EXISTING HORIZONTAL OR VERTICAL DATA SHOWN ON THESE DRAWINGS AND THAT ENCOUNTERED IN THE FIELD MUST BE REPORTED TO THE DESIGN TEAM PRIOR TO CONSTRUCTION FOR RESOLUTION.

3RD STREET MIXED USE BUILDING LAND DEVELOPMENT & LOT CONSOLIDATION PLANS

14-36 W 3RD STREET BETHLEHEM, PENNSYLVANIA 18015 NOVEMBER 5, 2021



			DRAWING LIST		
	SHEET NO.	DRAWING No.	DESCRIPTION	DRAWING SCALE	LAST REVISED DATE
*	1 OF 14	GI-001	COVER SHEET	AS SHOWN	11/5/2021
	2 OF 14	VT-101	EXISTING CONDITIONS PLAN	1" = 20'	11/5/2021
*	3 OF 14	CB-101	LOT CONSOLIDATION PLAN	1" = 20'	11/5/2021
	4 OF 14	CD-101	DEMOLITION PLAN	1" = 20'	11/5/2021
*	5 OF 14	CS-101	SITE PLAN	1" = 20'	11/5/2021
	6 OF 14	CG-101	GRADING PLAN	1" = 20'	11/5/2021
	7 OF 14	CE- 1 01	SOIL EROSION AND SEDIMENT CONTROL PLAN	1" = 20'	11/5/2021
	8 OF 14	CE-501	SOIL EROSION AND SEDIMENT CONTROL DETAILS	N.T.S.	11/5/2021
	9 OF 14	CU-101	UTILITY AND DRAINAGE PLAN	1" = 20'	11/5/2021
	10 OF 14	CU-501	UTILITY AND DRAINAGE DETAILS	N.T.S.	11/5/2021
	11 OF 14	LP-101	LANDSCAPE PLAN	1" = 20'	11/5/2021
	12 OF 14	LP-501	LANDSCAPE DETAILS AND NOTES	N.T.S.	11/5/2021
	13 OF 14	LL-101	LIGHTING PLAN	1" = 20'	11/5/2021
	14 OF 14	LL-501	LIGHTING DETAILS AND NOTES	N.T.S.	11/5/2021

CONTACT INFORMATION

City of Bethlehem 10 East Church Street Bethlehem, PA 18018 Contact: Darlene Heller, AICP (Director) Phone: (610) 865-7088 Email: dheller@bethlehem-pa.gov

10 East Church Street Bethlehem, PA 18018 Contact: Edward J. Boscola, P.E. Phone: (610) 865-7077 Email: eboscola@bethlehem-pa.gov

10 East Church Street Bethlehem, PA 18018 Contact: Edward J. Boscola, P.E. Phone: (610) 865-7077 Email: eboscola@bethlehem-pa.gov

UGI Utilities 2121 City Line Road Bethlehem, PA 18017 Phone: (610) 276-2722

EQUITABLE OWNER/APPLICANT Posh Properties 60 W Broad St Ste 304 Bethlehem, PA 18018 Contact: Joseph Posh Phone: (610) 861-0663

Email: poshproperties@rcn.com

Langan Engineering and Environmental Services, Inc One West Broad Street, Suite 200 Bethlehem, PA 18018 Phone: (610) 984-8500

Langan Engineering and Environmental Services, Inc One West Broad Street, Suite 200 Bethlehem, PA 18018 Contact: Jason Engelhardt

Phone: (610) 984-8500 Email: jengelhardt@langan.com

Email: nburns@langan.com

ACT 287 AS AMENDED IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY

WITH THE PENNSYLVANIA ACT 287 (AS AMENDED) AND TO CONTRACT THE "ONE CALL SYSTEM" THREE (3) WORKING DAYS (UNLESS OTHERWISE NOTED) PRIOR TO START OF CONSTRUCTION. PENNSYLVANIA ONE CALL 1-800-242-1776 SERIAL NO (20-36 W 3RD STREET): 2021 2023 393



CIVIL ENGINEER LANGAN

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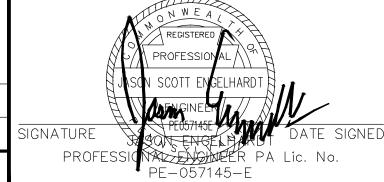
CONTACT JASON ENGELHARDT **PHONE**

610-984-8500 jengelhardt@langan.com

roject No.

GI-001

11/05/21 REVISED PER CITY COMMENTS Description Revisions



LANGAN Langan Engineering and Environmental Services, Inc.

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3RD STREET MIXED USE BUILDING

CITY OF BETHLEHEM NORTHAMPTON COUNTY PENNSYLVANIA **COVER SHEET**

rawing Title

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Date: 11/9/2021 Time: 16:20 User: ilaluz Style Table: Langan.stb Layout: GI-001 Document Code: 240052001-0501-GI001-0101

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240052001

08/09/21

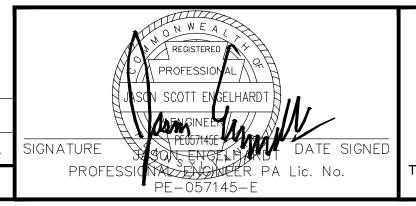
- 2. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM NAD 83.
- 3. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD
- 4. PLANIMETRIC INFORMATION SHOWN HEREON HAS BEEN OBTAINED FROM GROUND SURVEYS BY LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, INC. DURING MARCH 2020.
- 5. OFFSETS (IF SHOWN) ARE FOR SURVEY REFERENCES ONLY AND SHOULD NOT BE USED IN CONSTRUCTION OF ANY TYPE. LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, INC. RECOMMENDS THE PLACEMENT OF SURVEY MARKERS.
- 6. WETLANDS, ENVIRONMENTAL AND/OR HAZARDOUS MATERIALS LOCATION, IF ANY, NOT COVERED UNDER THIS CONTRACT.
- 7. UNLESS SPECIFICALLY NOTED HEREON, STORM AND SANITARY SEWER INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC.). CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMÉS WHEN AND THE LOCATIONS WHERE DATA WAS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE THE SURVEYOR CANNOT AND DOES NOT WARRANT THAT PIPE MATERIAL AND/OR PIPE SIZE THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES. ADDITIONAL UTILITY (WATER, GAS, ELECTRIC ETC.) DATA SHOWN FROM FIELD LOCATED EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS, UNLESS SPECIFICALLY NOTED HEREON THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON.
- 8. PRIOR TO ANY DESIGN OR CONSTRUCTION THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.
- 9. BASED ON FEMA FLOOD INSURANCE RATE MAP(FIRM), COMMUNITY PANEL NO. 307 OF 355, MAP NUMBER 42095C0307E, MAP REVISED DATE JULY 16, 2014. FOR THE CITY OF BETHLEHEM, PENNSYLVANIA, NORTHAMPTON COUNTY, THE SUBJECT PROPERTY LIES IN FLOOD ZONE "X". THE MAJORITY OF THE SITE IS IN AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AND A SMALL PORTION IS WITHIN ZONE "X" 0.2% ANNUAL CHANCE FLOODPLAIN. THE AREA TO THE NORTH OF THE FEMA 500 YEAR FLOODPLAIN LINE IS IN "ZONE X - 0.2% ANNUAL CHANCE FLOOD HAZARD. AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH LESS THAN ONE FOOT, WITH DRAINAGE AREAS OF LESS THAN ONE SQUARE MILE". THE AREA OF THE SITE WITHIN THE 0.2% ANNUAL CHANCE FLOOD HAZARD ZONE IS 870 SQUARE FEET. THE AREA TO THE SOUTH OF THE FEMA 500 YEAR FLOODPLAIN LINE IS IN ZONE X "AREA OF MINIMAL FLOOD

HAZARD" WHICH ENCOMPASSES THE MAJORITY OF THE SITE.

	SOIL TYPES										
SYMBOL	NAME	Hydric (Y/N)	DEPTH TO BEDROCK (IN.)	DEPTH TO WATER TABLE (IN.)	HYDROLOGIC SOIL GROUP	LIMITATION	RESOLUTION				
UkaB	Urban land, 0 to 8 percent slopes	N	N/A*	N/A*	N/A*	Susceptible to sinkholes	Sinkhole repair shall follow details provided on Drawing CE-501. Ponded water shall be pumped through a filter bag.				

11/05/21 REVISED PER CITY COMMENTS Description Revisions

* Depth to Bedrock, Depth to Water Table, and Hydrologic Soil Group are not provided in the Web Soil Survey.



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3RD STREET MIXED USE BUILDING

CITY OF BETHLEHEM NORTHAMPTON COUNTY PENNSYLVANIA

Drawing	Title		
		EXISTINO	ì
CO	N	DITIONS	PLAN

Drawing No. 240052001 08/09/21

TLP

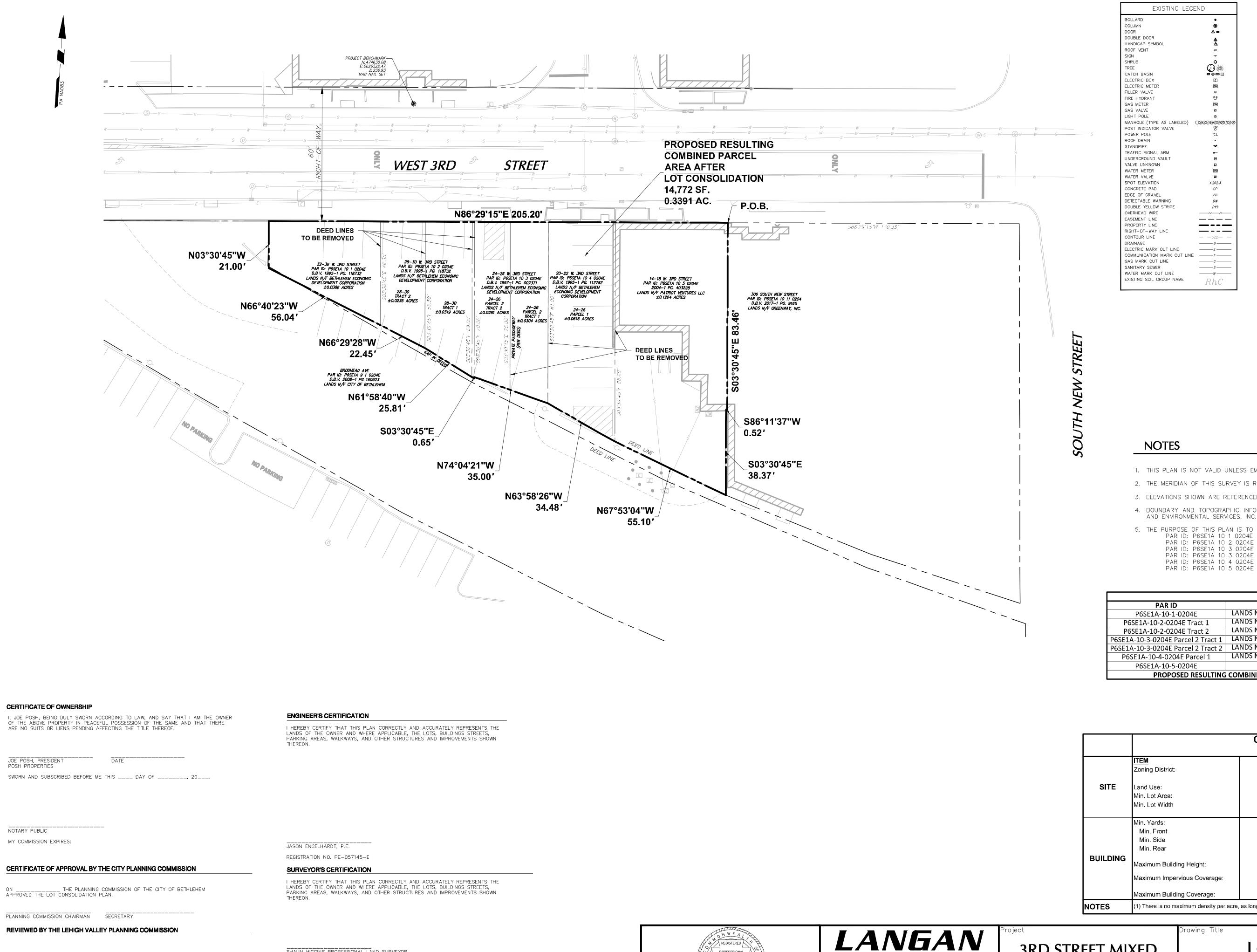
VT-101

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SITE LOCATION MAP **ACT 287 AS AMENDED** IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PENNSYLVANIA ACT 287 (AS AMENDED) AND TO CONTRACT THE "ONE CALL SYSTEM" THREE (3) WORKING DAYS (UNLESS OTHERWISE NOTED)
PRIOR TO START OF CONSTRUCTION. PENNSYLVANIA ONE CALL 1-800-242-1776 SERIAL NO (20-36 W 3RD STREET): 2021202339 CALL BEFORE YOU DIG IN PA, TOLL FREE 1 - 800 - 242-1776 FOR FREE MARKOUTS TO LOCATE UNDERGROUND UTILITIES " IT'S THE LAW " LEGEND (NOT SHOWN TO SCALE) COLUMN — DOUBLE DOOR

---- HANDICAP SYMBOL ----- ROOF VENT ---- SHRUB ----- TREE ---- CATCH BASIN ---- ELECTRIC BOX ----- ELECTRIC METER ----- FILLER VALVE ---- FIRE HYDRANT ---- GAS METER ---- GAS VALVE ---- LIGHT POLE ODEFRIGISTION --- MANHOLE (TYPE AS LABELED) ----- POST INDICATOR VALVE ----- POWER POLE ---- ROOF DRAIN ---- STANDPIPE ----- TRAFFIC SIGNAL ARM ----- UNDERGROUND VAULT ---- VALVE UNKNOWN ---- WATER METER ---- WATER VALVE ----- SPOT ELEVATION ---- CONCRETE PAD ---- EDGE OF GRAVEL ---- DETECTABLE WARNING ---- DOUBLE YELLOW STRIPE DYS ---- EASEMENT LINE - - - - 322 - - - CONTOUR LINE ----E----- ELECTRIC MARK OUT LINE



11/05/21 REVISED PER CITY COMMENTS

Description

Revisions

PROFESSIONAL LAND SURVEYOR PA Lic. No.

SU-051088-E

SHAUN HIGGINS PROFESSIONAL LAND SURVEYOR

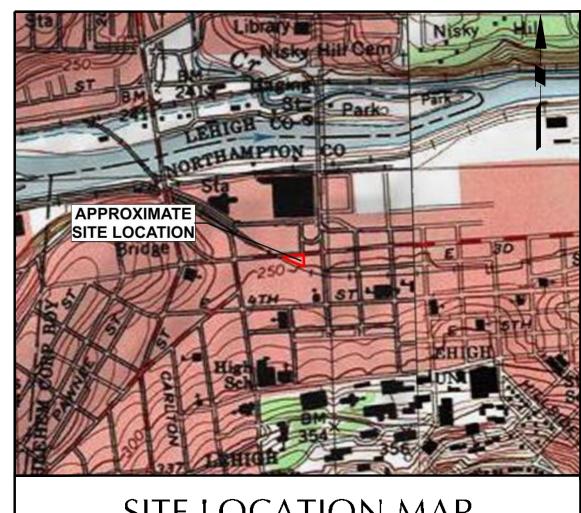
PA LIC. NO. SU-051088-E

RECORDING INFORMATION

RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS, NORTHAMPTON COUNTY, PENNSYLVANIA

IN VOL NO. _____, PAGE NO. _____ ON _____, 20____.

EXISTING LEGEND MANHOLE (TYPE AS LABELED) O@@@@@@@@ ____ _---_____D___ -----s _____w__



SITE LOCATION MAP

ACT 287 AS AMENDED

IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PENNSYLVANIA ACT 287 (AS AMENDED) AND TO CONTRACT THE "ONE CALL SYSTEM" THREE (3) WORKING DAYS (UNLESS OTHERWISE NOTED) PRIOR TO START OF CONSTRUCTION. PENNSYLVANIA ONE CALL 1-800-242-1776 SERIAL NO (20-36 W 3RD STREET): 20212023393



- 1. THIS PLAN IS NOT VALID UNLESS EMBOSSED OR STAMPED WITH THE SEAL OF THE UNDERSIGNED PROFESSIONAL(S).
- 2. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM NAD 83.
- 3. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD 88).
- 4. BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN BASED ON A FIELD SURVEY PREFORMED BY LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, INC. DURING MARCH 2020.
- 5. THE PURPOSE OF THIS PLAN IS TO CONSOLIDATE THE FOLLOWING PARCELS INTO ONE.
 - PAR ID: P6SE1A 10 1 0204E PAR ID: P6SE1A 10 2 0204E TRACTS 1 & 2 PAR ID: P6SE1A 10 3 0204E PARCEL 2 TRACT 1 PAR ID: P6SE1A 10 3 0204E PARCEL 2 TRACT 2 PAR ID: P6SE1A 10 4 0204E PARCEL 1

LOT CONSOLIDATION TABLE								
PAR ID	OWNER	AREA (AC.)						
P6SE1A-10-1-0204E	LANDS N/F BETHLEHEM ECONOMIC DEVELOPMENT CORPORATION	0.0386						
P6SE1A-10-2-0204E Tract 1	LANDS N/F BETHLEHEM ECONOMIC DEVELOPMENT CORPORATION	0.0319						
P6SE1A-10-2-0204E Tract 2	LANDS N/F BETHLEHEM ECONOMIC DEVELOPMENT CORPORATION	0.0236						
P6SE1A-10-3-0204E Parcel 2 Tract 1	LANDS N/F BETHLEHEM ECONOMIC DEVELOPMENT CORPORATION	0.0304						
P6SE1A-10-3-0204E Parcel 2 Tract 2	LANDS N/F BETHLEHEM ECONOMIC DEVELOPMENT CORPORATION	0.0281						
P6SE1A-10-4-0204E Parcel 1	LANDS N/F BETHLEHEM ECONOMIC DEVELOPMENT CORPORATION	0.0616						
P6SE1A-10-5-0204E	LANDS N/F PATRIOT VENTURES LLC	0.1264						
PROPOSED RESULTING	COMBINED PARCEL AREA AFTER LOT CONSOLIDATION	0.3391						

		City of Bethlehem Zoning Tab	ole		
		ZONING DISTRICT: CB			
	ITEM	PERMITTED/REQUIRED	PROPOSED		
	Zoning District:	СВ	СВ		
SITE	Land Use:	Mixed Use (1)	Mixed Used Building		
	Min. Lot Area:	1,800 sq. ft.	14,758 sq. ft		
	Min. Lot Width	18 ft.	201 ft.		
	Min. Yards:				
	Min. Front	0 ft.	0 ft.		
	Min. Side	0 ft.	0 ft.		
	Min. Rear	0 ft.	O ft.		
BUILDING	Maximum Building Height:	150 ft.	<150 ft.		
	Maximum Impervious Coverage:	100%	96%		
	Maximum Building Coverage:	100%	91.5%		
NOTES	(1) There is no maximum density per acre, as I	long as all other restrictions are met (1306.01(b)) Note I			

3RD STREET MIXED USE BUILDING

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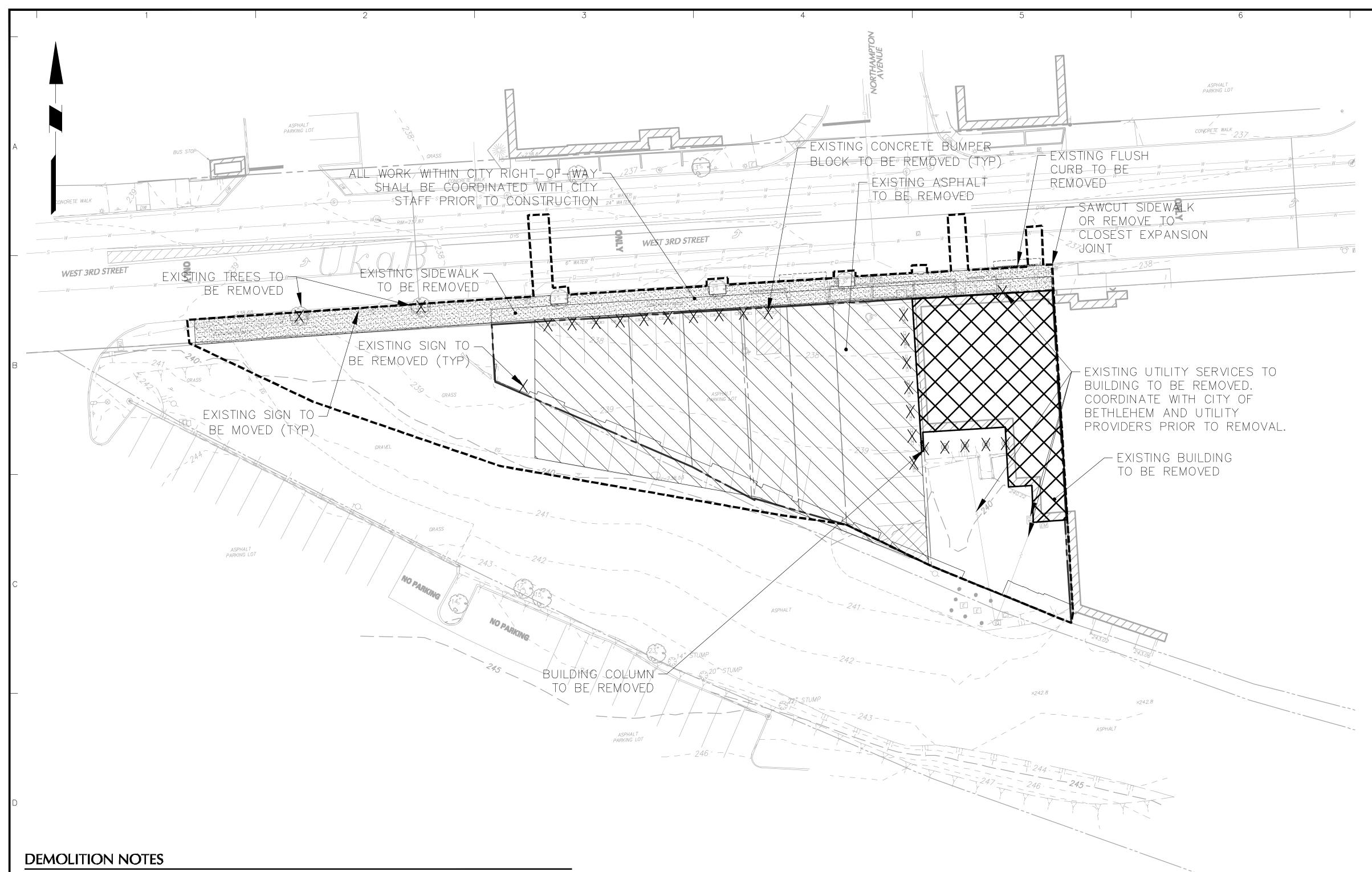
CITY OF BETHLEHEM NORTHAMPTON COUNTY

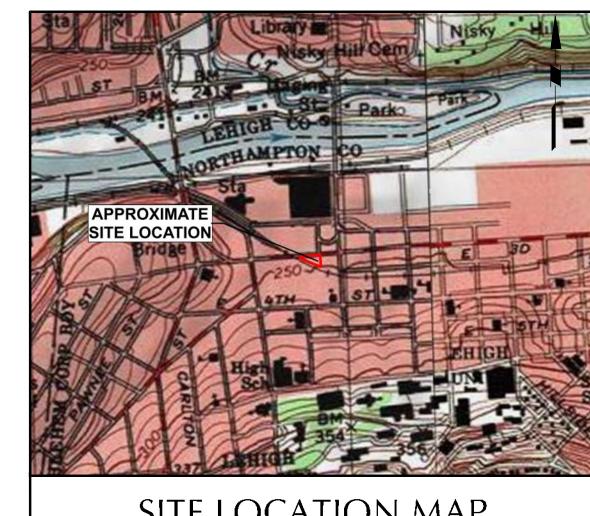
PENNSYLVANIA

LOT CONSOLIDATION PLAN

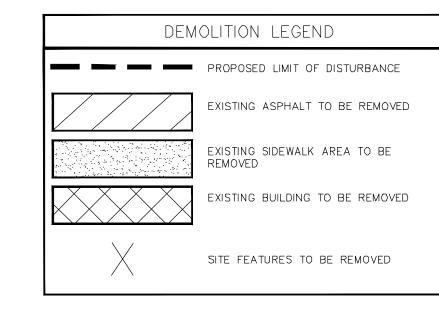
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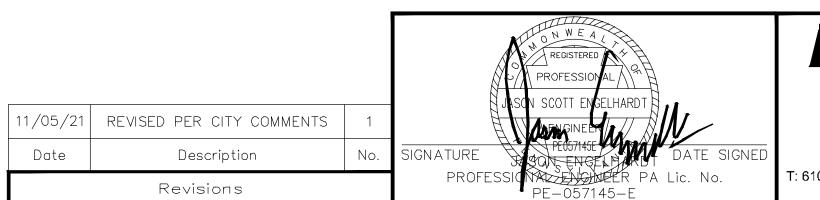
SITE LOCATION MAP



- 1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- 2. THE CONTRACTOR SHALL INSPECT THE SITE THOROUGHLY AND FIELD VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND LATERALS. UNDERGROUND ELECTRIC, TELEPHONE, VAULTS, GAS, WATER MAINS, ETC. ARE APPROXIMATE AND MUST BE FIELD VERIFIED. UTILITY INFORMATION HAS BEEN PROVIDED BY OTHERS AND NOT PREPARED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES AND FROM UTILITY COMPANY RECORD PLANS. OTHER UTILITIES MAY ALSO EXIST. ALL CONTRACTORS USING THESE PLANS FOR DEMOLITION SHALL CONFIRM ALL UTILITIES IN THE FIELD FOR EXACT LOCATIONS, SIZES, MATERIALS, AND ELEVATIONS.
- 3. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL PROVISIONS OF CITY OF BETHLEHEM, AND OTHER JURISDICTIONAL AGENCIES.
- 4. THE CONTRACTOR SHALL MAINTAIN AND PROTECT ALL OFFSITE PROPERTY AND STRUCTURES FROM ANY AND ALL DAMAGE DURING THE DEMOLITION OPERATION. THE CONTRACTOR SHALL USE ANY NECESSARY PROTECTION SCREENS, PLATFORMS, BRACING, UNDERPINNING, ETC. TO PROTECT OFFSITE PROPERTY. ANY OFFSITE DAMAGE CAUSED BY THE CONTRACTOR OR HIS AGENTS SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS INCLUDING, BUT NOT LIMITED TO, SIDEWALK/STREET CLOSING AND DEMOLITION.
- 6. DEMO CONTRACTOR SHALL COORDINATE DECOMMISSIONING AND REMOVAL OF UTILITY LINES WITH UTILITY CONTRACTOR AS TO LOCATION AND CONDITION OF CAPPING. THE ACCESS SHALL REMAIN OPEN AND OPERATIONAL AT ALL TIMES.

- 7. ALL EXISTING STRUCTURES WITHIN CONSTRUCTION AREA, UNLESS OTHERWISE NOTED TO REMAIN, SHALL BE REMOVED & DISPOSED OF OFF SITE.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
- 9. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
- 10. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.
- 11. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES,

- 12. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
- 13. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE ANY ITEMS TO REMAIN, THEN THE CONTRACTOR SHALL PROVIDE NEW MATERIALS / STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN, ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW.
- 14. CONTRACTOR SHALL MAINTAIN EXISTING SIDEWALKS CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN TRAFFIC IN FRONT OF THE SITE TO THE MAXIMUM EXTENT PRACTICAL. WHEN SIDEWALK CLOSURE BECOMES NECESSARY, THE CLOSURE AND REQUIRED SIGNAGE SHALL BE COORDINATED WITH THE CITY OF BETHLEHEM.
- 15. THE CONTRACTOR SHALL ENSURE CONTINUOUS UTILITY SERVICE TO EXISTING BUILDINGS DURING DEMOLITION. SEE UTILITY PLAN FOR PROPOSED CONNECTION INFORMATION.
- 16. WHERE APPLICABLE, POLES AND FOOTINGS ARE TO BE REMOVED WITH ASSOCIATED ITEMS.
- 17. TEMPORARY CONSTRUCTION EASEMENT FOR PAVEMENT REMOVAL WORK WITHIN CITY OF BETHLEHEM PROPERTY IS SHOWN ON SHEET CS-101
- 18. THE CONTRACTOR IS TO LOCATE THE EXISTING UTILITY LATERALS AT TIME OF BUILDING DEMO AND TO CAP ALL EXISTING LATERALS. EXISTING SANITARY LATERAL IS TO BE CAPPED AT MAIN.



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3RD STREET MIXED USE BUILDING

PLAN

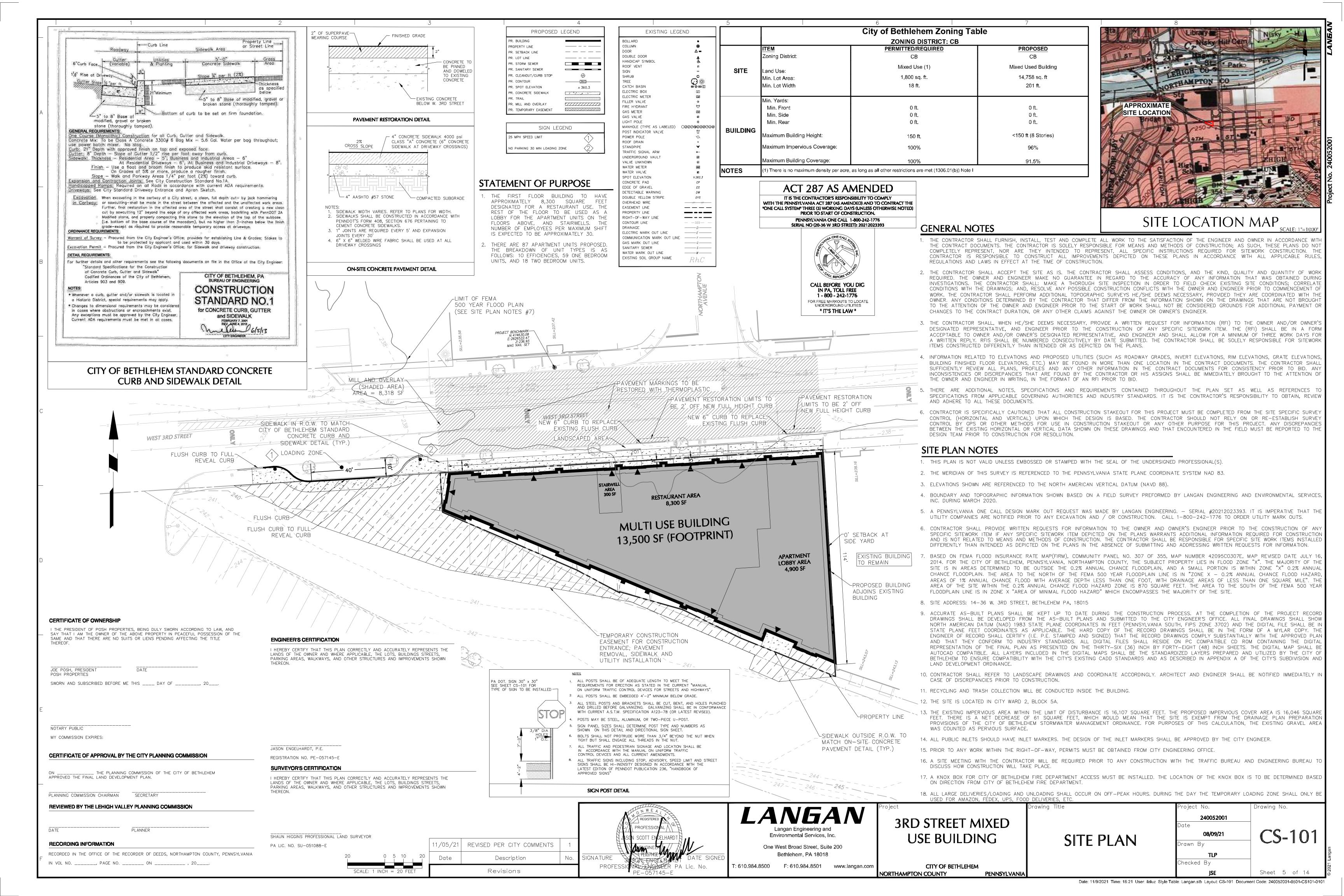
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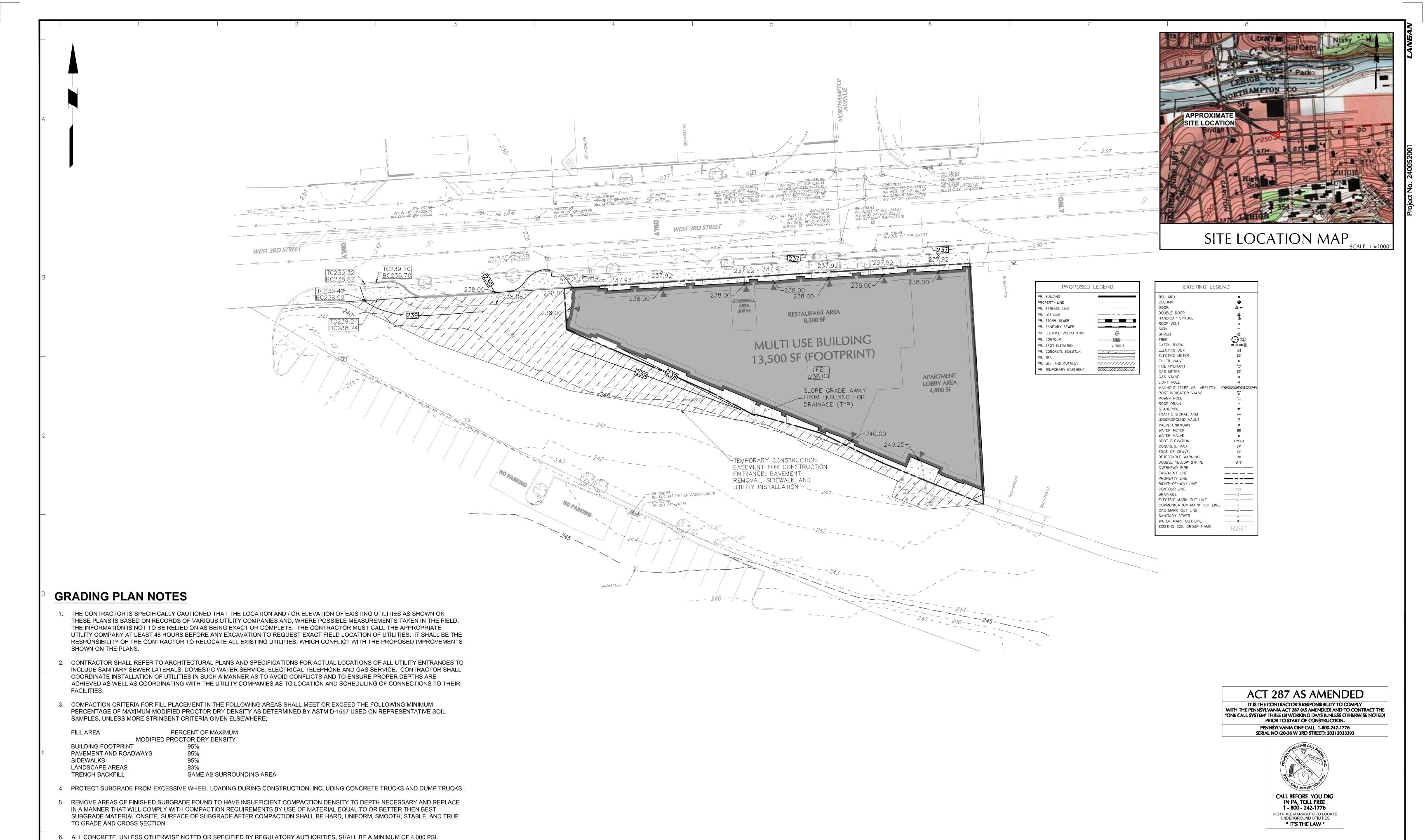
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NORTHAMPTON COUNTY PENNSYLVANIA

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7. WALL ELEVATIONS SHOWN ON THIS PLAN ARE GIVEN AS SURFACE GRADES AT TOP AND BOTTOM OF WALL AND MAY NOT REPRESENT

11/05/21 REVISED PER CITY COMMENTS

Description

Revisions

SIGNATURE

THE EXACT ELEVATION OF STRUCTURAL RETAINING WALL COMPONENTS (ABOVE AND BELOW GRADE) TO BE CONSTRUCTED.

8. FF= FINISHED FLOOR ELEVATION

Drawing No. 240052001 CG-101 GRADING PLAN hecked By

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rawing Title

3RD STREET MIXED

USE BUILDING

CITY OF BETHLEHEM

PENNSYLVANIA

NORTHAMPTON COUNTY

DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES 13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.

P. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.

AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO **IMPLEMENTATION**

5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL

6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.

AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.

8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER

9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT

10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT 24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES. REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.

I1. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.

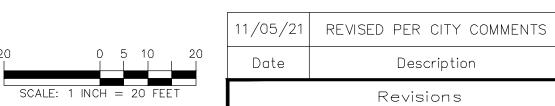
- DUE TO ANALYTICAL TESTING
- DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS CONSTRUCTION SITE ONTO ADJOINING STREETS. ALL CONSTRUCTION VEHICLES AND EQUIPMENT MUST ENTER AND EXIT THE SITE USING THE CONSTRUCTION ENTRANCE AND BERM ON THE
- NORTHWEST SIDE OF THE SITE. LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN 15. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE
 - REQUIRED. 16. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND 29. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER. EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND 18. SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF
 - STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.

19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE 32. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL

20. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.

21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT 22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF

> SATISFACTORY FILLS. 23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.



GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN

DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN. 14. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM THE 27. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.

MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, 28. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.

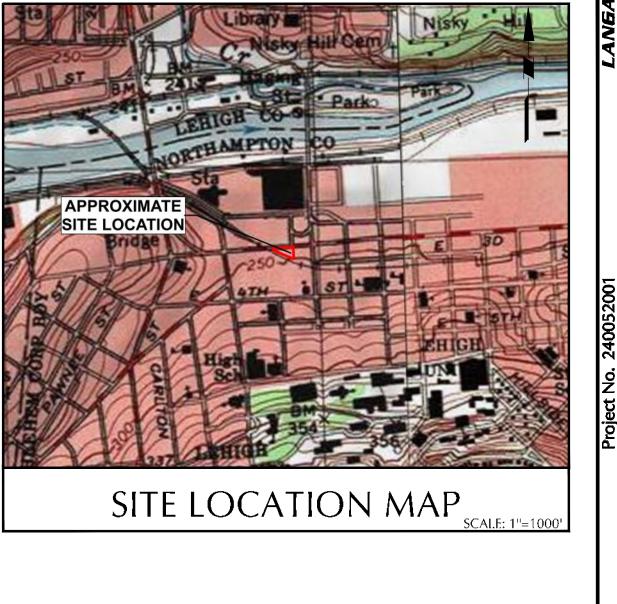
PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT

17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE 30. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS 31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS.

> SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON. ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL

CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

- 1. INSTALL ROCK CONSTRUCTION ENTRANCE IMMEDIATELY BEFORE INITIAL DISTURBANCES AT THE LOCATION SHOWN ON DRAWING CE-101. ROCK CONSTRUCTION ENTRANCES SHALL BE UNDERLAIN BY FILTER FABRIC AS INDICATED ON THE DETAIL. ALL CONSTRUCTION ACTIVITY SHALL USE ONLY THESE AREAS FOR INGRESS AND EGRESS. AS CONDITIONS WARRANT, THESE LOCATIONS MAY BE MODIFIED WITH THE PRIOR APPROVAL FROM THE CITY OF
- 2. INSTALL COMPOST FILTER SOCKS AS INDICATED ON DRAWING CE-101. METHOD OF INSTALLATION AND MAINTENANCE SHALL BE IN ACCORDANCE WITH PADEP REQUIREMENTS AND AS INDICATED ON THE DETAIL. THE INSTALLATION OF THE CONSTRUCTION ENTRANCES AND COMPOST FILTER SOCKS SHALL BE DONE PRIOR TO ANY OTHER EARTH DISTURBANCES.
- 3. ESTABLISH THE STOCKPILE AREA WITH COMPOST FILTER SOCK BARRIER ON THE DOWNSLOPE EDGE OF THE PILE AT THE LOCATION SHOWN ON CE-101. INSTALL THE COMPOST SOCK CONCRETE WASHOUT AT THE LOCATION SHOWN ON CE-101.
- 4. ROUGH GRADE SITE AND BUILDING PAD. THE EARTH MOVING ACTIVITY SHALL BEGIN IN AREAS OF CUT SO THAT THE CUTS CAN BE PLACED IN AREAS OF FILL. PLACE TOPSOIL AND EXCESS FILL MATERIAL IN AREAS DESIGNATED ON THE PLAN. IMMEDIATELY INSTALL LANDLOK S2 ON ALL SLOPES EXCEEDING 3:1 AS SHOWN ON THE PLAN.
- 5. BEGIN CONSTRUCTION OF ON-SITE UTILITIES STARTING AT THE DOWNSTREAM ENDS AND WORKING UPSTREAM. SUBSURFACE UTILITIES SHALL CONSIST OF ELECTRIC, GAS, TELEPHONE, CABLE, WATER AND SANITARY SEWERS. ADVANCE TRENCH EXCAVATION SHALL BE LIMITED TO THE LENGTH OF PIPE THAT CAN BE COMPLETED IN THE SAME DAY. ON THE DAY FOLLOWING INSTALLATION, THE TRENCH AREA SHALL BE GRADED TO SUBGRADE ELEVATION. IMMEDIATELY BACKFILL AND STABILIZE TRENCH
- EXCAVATIONS. 6. CONSTRUCT BUILDING PAD AND BUILDING. COMPLETE FINAL SITE GRADING AND LANDSCAPING. STABILIZE WITH PERMANENT SEED AND
- 7. CONSTRUCTION ENTRANCE AND COMPOST FILTER SOCKS SHALL BE MAINTAINED UNTIL ALL IMPROVEMENTS TO THE SITE ARE COMPLETED, ROAD AREAS ARE PAVED AND 70% UNIFORM PERMANENT VEGETATIVE COVERAGE HAS BEEN ESTABLISHED.
- 8. ONCE ALL PERMANENT MEASURES HAVE BEEN INSTALLED, REMOVE THE CONSTRUCTION ENTRANCE AND COMPOST FILTER SOCK. ALL DISTURBANCE CAUSED BY THE REMOVAL OF TEMPORARY SEDIMENT POLLUTION CONTROL DEVICES MUST BE PERMANENTLY STABILIZED.



ACT 287 AS AMENDED

IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPL WITH THE PENNSYLVANIA ACT 287 (AS AMENDED) AND TO CONTRACT TH "ONE CALL SYSTEM" THREE (3) WORKING DAYS (UNLESS OTHE PRIOR TO START OF CONSTRUCTION. PENNSYLVANIA ONE CALL 1-800-242-1776

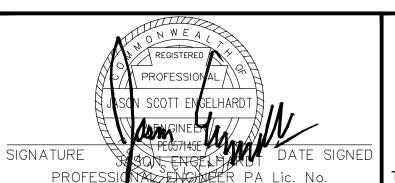


" IT'S THE LAW "

E&S PLAN LEGEND _____ COMPOST FILTER SOCK PERMANENT STORM SEWER - - -360- - - -EXISTING CONTOUR 360 PROPOSED CONTOUR TEMP. CONSTRUCTION FENCE TREE PROTECTION FENCE _____ SOIL TYPE BOUNDARY CpBSOIL TYPE LIMIT OF DISTURBANCE CONCRETE WASHOUT FILTER BAG INLET PROTECTION ANDLOK S2 MATTING FOR STEEP SLOPES AND SWALES CONSTRUCTION ENTRANCE

LIMIT OF DISTURBANCE = 0.53 ACRES

REFER TO DRAWING CE-501 FOR SOIL EROSION AND SEDIMENT CONTROL DETAILS.



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CITY OF BETHLEHEM NORTHAMPTON COUNTY PENNSYLVANIA

3RD STREET MIXED USE BUILDING

SOIL EROSION AND SEDIMENT CONTROL PLAN

240052001 CE-101

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SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT, MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATION OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

> STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK

> > 18" OF FILTER —

MATERIAL

/FIELD STONE

BRIDGE

INVERTED FILTER 1

(DRAINAGE AREA LESS THAN 5 ACRES)

NOTE: SEE SINKHOLE REMEDIATION NOTES IN EROSION AND SEDIMENT POLLUTION CONTROL REPORT PREPARED

(R-3 STONE)

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MAINTENANCE PROGRAM

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION. STABILIZATION AND MAINTENANCE OF ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AND RELATED ITEMS INCLUDED WITHIN THIS PLAN. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR THE PROPER CONSTRUCTION AND STABILIZATION OF PERMANENT CONTROL MEASURES AND RELATED ITEMS INCLUDED WITHIN THIS PLAN.

THE OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL PERMANENT CONTROL MEASURES.

SOIL SEDIMENT REMOVED FROM ANY TEMPORARY CONTROL MEASURE DURING REGULAR MAINTENANCE WILL BE INCORPORATED BACK INTO THE EARTHWORK AS FILL ON THE SITE. SOIL SEDIMENT MATERIAL SHALL BE DISTRIBUTED ON-SITE WITHOUT CHANGING DRAINAGE PATTERNS DURING A SPECIFIC CONSTRUCTION

COMPOST FILTER SOCK INSTALLED ON THE PROJECT SITE SHALL BE MAINTAINED AS FOLLOWS:

- 1. THE SOCK CONDITION WILL BE INSPECTED ONCE WEEK OR AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- 2. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES ½ THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED OF PROPERLY. . BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. 4. ANY MANUFACTURER'S RECOMMENDATIONS WILL BE ADHERED TO FOR

THE CONSTRUCTION ENTRANCE WILL BE INSPECTED AT THE END OF EACH WORK DAY. THE THICKNESS WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSION BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL WILL BE MAINTAINED ON THE SITE FOR THIS PURPOSE.

REPLACING THE SOCK DUE TO WEATHERING.

AT THE END OF EACH CONSTRUCTION DAY, ANY SEDIMENT DEPOSITED ON PUBLIC ROADWAYS WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WITH WATER WILL NOT BE PERMITTED.

NOTE: THE CONTRACTOR SHALL HAVE ON SITE A WRITTEN REPORT DOCUMENTING INSPECTIONS AND REPAIRS.

MAINTENANCE NOTES

UTILITY TRENCH EXCAVATION GUIDELINES

- Limit advance clearing and grubbing operations to a distance equal to two times the length of pipe installation that can be completed in one day. Work crews and equipment for trenching, placement of pipe, plug construction and backfilling will be self
- contained and separate from clearing and grubbing site restoration and stabilization operations. Limit daily trench excavation to the length of pipe placement, plug installation and backfilling that can be
- completed the same day. Trench plugs will be spaced and be constructed of the materials shown on Drawing CE-101.
- (1) At all crossings of waters of the Commonwealth, trench plugs will be installed at the banks after trench excavation. The plugs may be temporarily removed when placing the pipe, but then replaced. Construction of the crossing will be in accordance with the requirements of PADER.
- e. Water which accumulates in the open trench will be completely removed by pumping, as required, to a facility for removal of sediment in accordance with PADER guidelines. f. On the day following pipe placement and trench backfilling the disturbed area will be graded to final contours and appropriate temporary erosion and sediment pollution control measures/facilities will be installed. Seeding and mulching
- of all disturbed areas will be done at the end of each week. Exceptions — In certain cases trenches cannot be backfilled unt the pipe is hydrostatically tested, or anchors and other permanent features are installed in these cases, all of the requirements listed under item 1 will remain in effect with the following exceptions:
- 2c. Daily backfilling of the trench may be delayed for six days. All pressure testing and the complete backfilling of the open trench must be completed by the seventh 2f. If daily backfilling is delayed, the disturbed area will be gradéd to final contours, appropriate temporary erosion and sediment control measures/facilities will be

UTILITY TRENCH NOTES

next two calendar days.

IN REBAR FOR

installed, and the areas seeded and mulched within the

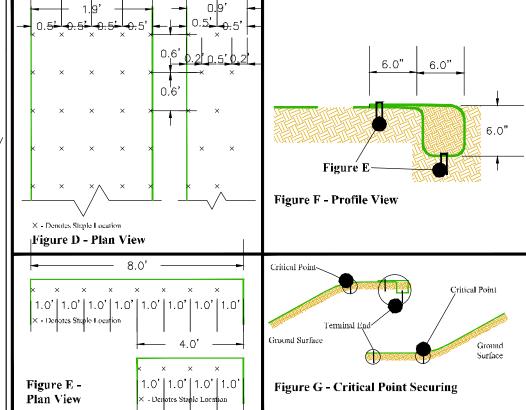
INSTALLATION DETAIL

PLAN VIEW

EXPANSION RESTRAIN

(1 IN, NYLON ROPE)

-2 IN X 2 IN, X 3/4 IN.



S-2 MATTING STAPLING PATTERN

STARTING AT TOP OF

THE BLANKET - OVERLAP BLANKET ENDS 6 IN. MIN. -

(SHINGLE STYLE). STAPLE SECURELY.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR

SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS,

THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE

SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE

BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH

RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED

AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR

EROSION CONTROL MATTING

EROSION CONTROL MATTING TO BE USED IF ANY SLOPE EXCEEDS

SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE

OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH

RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKE

SHOULD NOT BE WITH THE UPSLOPE BLANKED OVERLYING THE DOWNSLOPE BLANKET

FASHION AS AT TOP OF SLOPE.

MANUFACTURER'S RECOMMENDATIONS.

REPLACED WITHIN 4 CALENDAR DAYS.

STARTING AT TOP OF SLOPE, ROLL BLANKETS IN DIRECTION OF WATER FLOW

DIRECTION OF WATER FLOW

OVERI APPED

(4 IN. MIN.)

MUST MAINTAIN

AND GRASS.

GOOD SOII

IN 6 IN. x 6 IN. ANCHOR TRENCH, STAPLE, BACKFILL

REPARE SEED BED

PRIOR TO BLANKET

NSTALLATION

BLANKETED

REFER TO MANUE.

RECOMMENDED STAPLING PATTERN FOR STEEPNESS

AND LENGTH OF SLOPE BEING

INCLUDING APPLICATION OF IME, FERTILIZER AND SEED)

PERMANENT SEEDING NOTES

TEMPORARY SEEDING NOTES

1) THE SURFACE OF TOPSOIL STOCKPILES.

PERENNIAL TYPE - NOT APPLICABLE

SOW SECOND LOT AT RIGHT ANGLE TO FIRST LOT.

C) PREPARE AREAS TO BE SEEDED AS FOLLOWS:

GRADED AREAS. THE FOLLOWING SEED SHALL BE PLANTED:

A) THE FOLLOWING SURFACES OF THE SITE SHALL BE TEMPORARILY SEEDED AND MULCHED

3) STRAW MULCH SHOULD BE APPLIED AT A RATE OF 3 TONS PER ACRE.

2) THE SURFACE OF EXPOSED EARTH AREAS NOT SUBJECT TO CONSTRUCTION

B) SEEDING SHALL OCCUR IMMEDIATELY AFTER THE ESTABLISHMENT OF THE TOPSOIL STOCKPILES OR ROUGH

1) REMOVE ALL DEBRIS, INCLUDING LARGE STONE. TILL SOIL TO A DEPTH OF FOUR INCHES TO SIX

2) BEFORE AUGUST, SEPTEMBER OR OCTOBER SEEDING, APPLY 20-25 LBS. OF 10-20-20 FERTILIZER

PÉR 1,000 SQUARE FEET. BEFORE FEBRUARY, MARCH, APRIL, MAY, JUNE, JULY OR NOVEMBER SEEDING,

APPLY 40 LBS. OF 10-20-20 FERTILIZER PER 1,000 SQUARE FEET. WORK INTO TOP INCH OF SOIL.

INCHES. APPLY PULVERIZED AGRICULTURAL GRADED LIME AT A RATE OF 2 TONS PER ACRE.

D) SOW SEED AT THE INDICATED RATE. DIVIDE SEED INTO TWO EQUAL LOTS. SOW ONE LOT IN ONE DIRECTION.

RYEGRASS - BLUE TAG CERTIFIED - 100%%% - 4 TO 5 LBS. PER 1,000 SQUARE FOOT.

LAWN SEED MIX

- PRIOR TO SEEDING, AREA IS TO BE TOPSOILED, FINE GRADED, AND RAKED OF ALL DEBRIS LARGER THAN 1/2" DIAMETER.
- 2. PRIOR TO SEEDING, CONSULT MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

3. SEEDING RATES:

RED FESCUE

PERENNIAL RYEGRASS 1 LB/1000 SQ FT KENTUCKY BLUEGRASS 1 1/2 LB/1000 SQ FT 1 1/2 LB/1000 SQ FT SPREADING FESCUE 1 LB/1000 SQ FT

- 4. SEEDING DATES FOR THIS MIXTURE SHALL BE BETWEEN MARCH 15TH TO MAY 15TH OR AUGUST 15TH TO OCTOBER 30TH.
- GERMINATION RATES WILL VARY AS TO TIME OF YEAR FOR SOWING. CONTRACTOR TO IRRIGATE SEEDED AREA UNTIL A STAND OF COVER IS ESTABLISHED AND FOUND ACCEPTABLE TO THE OWNER.

MEADOWN SEED MIX

1 0%

MEADOW SEED MIX A - ERNST SEED MIX ERNMX-181 "NATIVE STEEP SLOPE MIX WITH ANNUAL RYEGRASS"

SORGHASTRUM NUTANS INDIANGRASS ANNUAL RYEGRASS 20.0% LOLIUM MULTIFLORUM LITTLE BLUESTEM 15.0% SCHIZACHYRIUM SCOPARIUM 12.0% ELYMUS CANADENSIS CANADA WILDRYF 8.0% ELYMUS VIRGINICUS VIRGINIA WILDRYF PANICUM VIRGINICUS SWITCHGRASS TRIDENS FLAVUS PURPLETOP AUTUMN BENTGRASS AGROSTIS PERENNANS AGROSTIS SCABRA TICKLEGRASS (ROUGH BENTGRASS) 2.0% 2.0% CHAMAECRISTA FASCICULATA PARTRIDGE PEA RUDBECKIA HIRTA BLACK-EYED SUSAN LANCE-LEAF COREOPSIS COREOPSIS LANCEOLATA ECHINACEA PURPUREA 1.0% PURPLE CONEFLOWER

LIATRIS SPICATA 1.0% MONARDA MEDIA NOTES:

1. SEED AT A RATE OF 30 LBS./ACRE. 2. OVERSEED WITH ELYMUS CANADENSIS (CANADA WILD RYE) AND ELYMUS VIRGINICUS (VIRGINIA WILD RYE) AT A RATE OF 5 LBS./1,000 SF EACH.

MARSH (DENSE) BLAZING STAR

PURPLE BERGAMOT

MEADOW SEED MIX B - ERNST CUSTOM SEED MIX "NATIVE WILDFLOWER + POLLINATOR SEED MIX"

PYCNANTHEMUM TENUIFOLIUM SLENDER MOUNTAINMINT BUTTERFLY MILKWEED, PA. ECOTYPE 8.0% ASCLEPIAS TUBEROSA ASTER OBLONGIFOLIUS AROMATIC ASTER, PA. ECOTYPE EURYBIA SPECTABILIS SHOWY ASTER, NC. ECOTYPE BAPTISIA ALBESCENS SPIKED WILD INDIGO, NC. ECOTYPE BAPTISIA AUSTRALIS BLUE FALSE INDIGO, SOUTHERN WV. ECOTYPE 8.0% COREOPSIS TINCTORIA PLAINS CORFORSIS

ECHINACEA PURPUREA PURPLE CONEFLOWER LESPEDEZA VIRGINICA SLENDER LESPEDEZA, MD ECOTYPE 8.0% GAILLARDIA ARISTATA PERENNIAL GAILLARDIA (BLANKETFLOWER) GAILLARDIA PULCHELLA ANNUAL GAILLARDIA (INDIAN BLANKET) 6.0% LIATRIS ASPERA ROUGH BLAZING STAR LIATRIS SPICATA MARSH (DENSE) BLAZING STAR (SPIKED GAYFEATHER) 5.0%

PENSTEMON DIGITALIS TALL WHITE BEARDTONGUE PENSTEMON CANESCENS APPALACHIAN BEARDTONGUE, SC. ECOTYPE GOLDEN ALEXANDERS, PA. ECOTYPE 5.0% ZIZIA AUREA 3.0% ANEMONE CANADENSIS CANADIAN ANEMONE, PA. ECOTYPE OXEYE SUNFLOWER. PA. ECOTYPE 3.0% HELIOPSIS HELIANTHOIDES PENSTEMON HIRSUTUS

NOTES:

1. SEED AT A RATE OF 15 LBS./ACRE. 2. OVERSEED WITH ELYMUS CANADENSIS (CANADA WILD RYE) AND ELYMUS VIRGINICUS (VIRGINIA WILD RYE) AT A RATE OF 5 LBS./1,000 SF EACH.

HAIRY BEARDTONGUE

WILD SENNA, VA. + WV. ECOTYPE

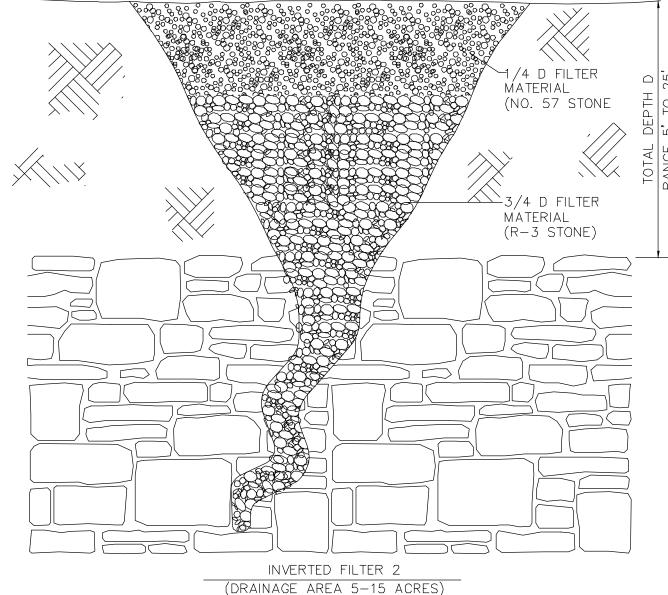
GENERAL SEEDING NOTES:

SENNA HEBECARPA

- 1. SEEDING SHALL TAKE PLACE IN THE SPRING (APRIL 1 TO JUNE 1) OR THE FALL (SEPTEMBER 1 TO OCTOBER 30).
- 2. ELIMINATE UNWANTED VEGETATION PRIOR TO SEEDING USING A BROAD-SPECTRUM NON-SELECTIVE HERBICIDE PER MANUFACTURER'S SPECIFICATIONS.
- 3. CONTRACTOR SHALL INSTALL SEED MIXTURE USING A NO-TILL TRUAX-TYPE DRILL IN AREAS TO BE SEEDED WITH MEADOW MIX.
- 4. CONTRACTOR SHALL IMMEDIATELY ROLL NEWLY SEEDED AREAS WITH CULTI-PACKER OR SIMILAR DEVICE TO ENSURE PROPER SEED/SOIL CONTACT.
- 5. CONTINUOUS MOISTURE FOR 4-6 WEEKS MUST BE INSURED TO ALLOW PROPER GERMINATION, IF RAIN DOES NOT OCCUR CONTRACTOR SHALL PROVIDE SUPPLEMENTAL IRRIGATION TO NEWLY SEEDED AREAS PER INSTRUCTIONS INCLUDED IN SEEDING SPECIFICATION.
- 6. REMOVE ALL DEBRIS, INCLUDING LARGE STONES. TILL SOIL TO A DEPTH OF FOUR INCHES TO SIX INCHES. APPLY AGRICULTURAL PULVERIZED GRADED LIME AT A RATE OF 6 TONS PER ACRE. BEFORE JUNE 15, APPLY 500 lbs. OF 10-20-20 FERTILIZER PER ACRE. WORK FERTILIZER INTO TOP INCH OF SOIL. STRAW MULCH SHOULD BE APPLIED AT A RATE OF 3 TONS PER ACRE.

WEED CONTROL / MAINTENANCE

- 1. DURING THE ESTABLISHMENT YEAR, CONTRACTOR SHALL MOW SEEDED AREAS IF WEED HEIGHT EXCEEDS MEADOW MIX HEIGHT. MOW AT A HEIGHT OF 8"-10". DO NOT MOW CLOSE, THE MEADOW
- MIX MAY BE DAMAGED. 2. AFTER THE FIRST GROWING SEASON, AND IF MEADOW MIX IS WELL ESTABLISHED, THE MEADOW MIX SHALL BE MOWED ONLY ONCE ANNUALLY. ANNUAL MAINTENANCE MOWING SHALL BE DONE IN LATE WINTER DURING THE MONTH OF MARCH.



11/05/21 REVISED PER CITY COMMENTS

Description

Revisions

Date

MAXIMUM DRAINAGE AREA = 1/2 ACRE. INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS. ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE. INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF

SECTION VIEW

EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS, ALL NEEDED REPARS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION, DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES. DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS

STANDARD CONSTRUCTION DETAIL #4-15 FILTER BAG INLET PROTECTION - TYPE C INLET

INLET PROTECTION (FILTER BAG)

NOTE: ALL FIELD WORK RELATED TO SINKHOLES OR POTENTIAL SINKHOLES SHALL BE PERFORMED UNDER THE DIRECTION AND INSPECTION OF THE OWNER'S GEOTECHNICAL ENGINEER. FIELD CHANGES TO THESE

SINKHOLE REPAIR DETAIL

GUIDELINES MAY BE NECESSARY DURING CONSTRUCTION SINCE SINKHOLE ACTIVITY IS A NATURAL OCCURRENCE AND ITS SCOPE OF REMEDIATION CANNOT BE FULLY DEFINED PRIOR TO FIELD OBSERVATION.

CONCRETE WASHOUT

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TABLE 4.1

egradable

months

Sock fabrics composed of burlap may be used on projects lasting 6 months or less.

Compost Standards

NORTHAMPTON COUNTY CONSERVATION DISTRICT PRIOR TO

SOIL MEDIA TO BE TESTED AND SUBMITTED TO

mil HDPE | Multi-Filament | Multi-Filament

Photo-

degradable

44 psi

100% at

1000 hr.

1 year

HDPE biaxial net

Continuously wound

Fusion-welded junctures

3/4" X 3/4" Max. aperture size

(Woven laver and non-woven fleece

3/16" Max. aperture size

25% - 100% (dry weight basis)

30% - 50% pass through 3/8" sieve

5.0 dS/m (mmhos/cm) Maximum

nechanically fused via needle punch)

Polypropylene Polypropylene

Photo-

degradable

202 psi

100% a

1000 hr.

2 years

Compost Sock Fabric Minimum Specifications

3 mil HDPE

degradable

23% at

1000 hr.

6 months

Inner Containment Netting

Outer Filtration Mesh

Organic Portion

Moisture Conten

Particle Size

Soluble Salt Concentration

INSTALLING COMPOST FILTER SOCKS.

23% at

1000 hi

9 months

Material

Characteristics

Diameters

Strength

Stability %

Original Strength (ASTM G-155)

Functional

Longevity

COMPOST FILTER SOCK

三一

MATERIAL

MATERIAL

- SOIL MATERIAL

OF FILTER

(TYPE A SAND)

(NO. 57 SIEVE)

SIGNATURE

LANGAN Environmental Services, Inc One West Broad Street, Suite 200

Bethlehem, PA 18018 T: 610.984.8500 F: 610.984.8501

3RD STREET MIXED USE BUILDING

NORTHAMPTON COUNTY **PENNSYLVANIA**

SOIL EROSION AND SEDIMENT CONTROL DETAILS

CE-501

Date: 11/9/2021 Time: 16:21 User: ilaluz Style Table: Langan.stb Layout: CE-501 Document Code: 240052001-0501-CE501-0101

240052001

08/09/21

HEAVY DUTY LIFTING STRAPS **ELEVATION VIEW** LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH THAN 150 MICRONS, HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS: AVG. WIDE WIDTH STRENGTH ASTM D-4884 60 LB/IN GRAB 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% A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL B PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY, BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE

AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

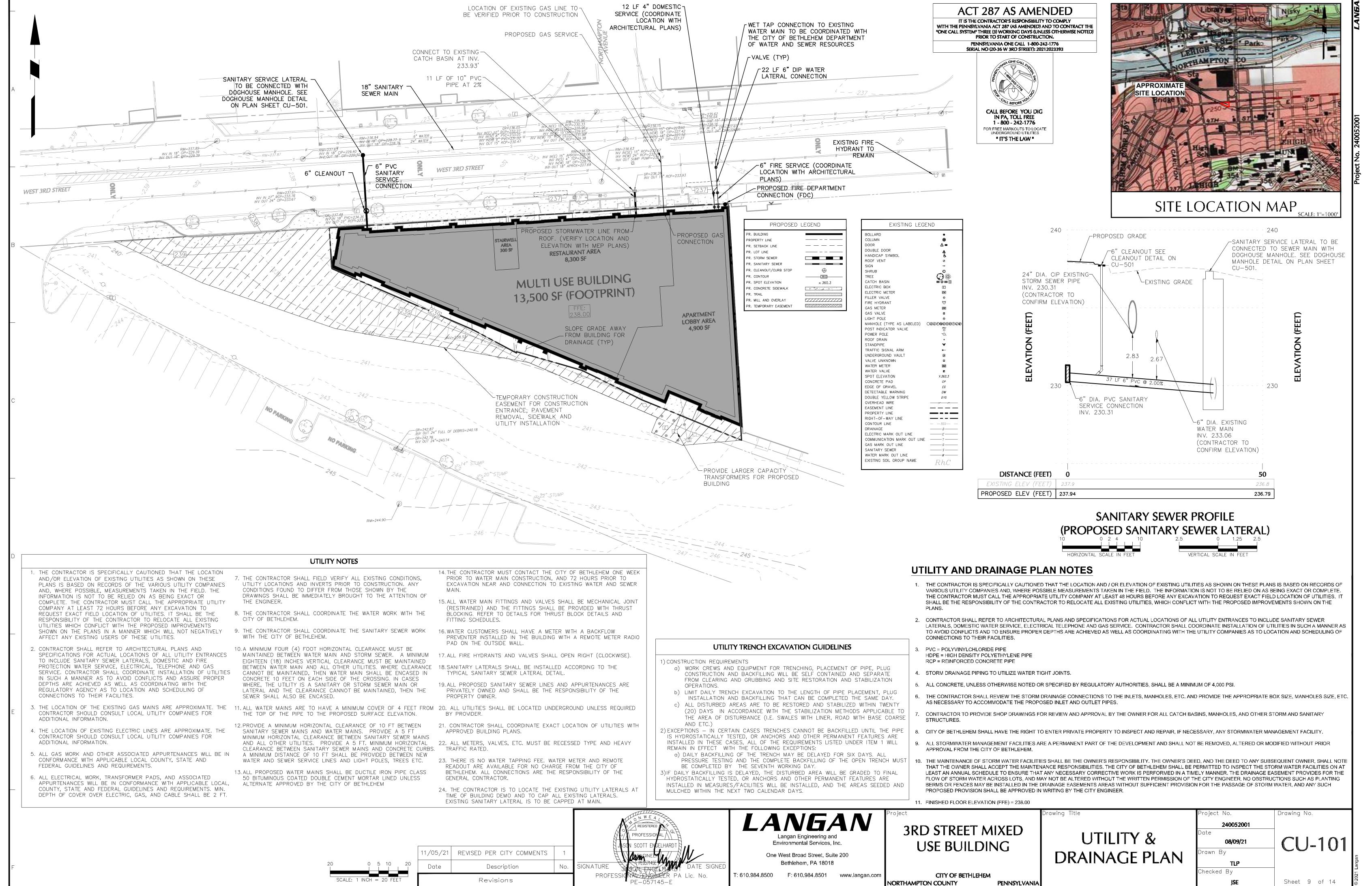
THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

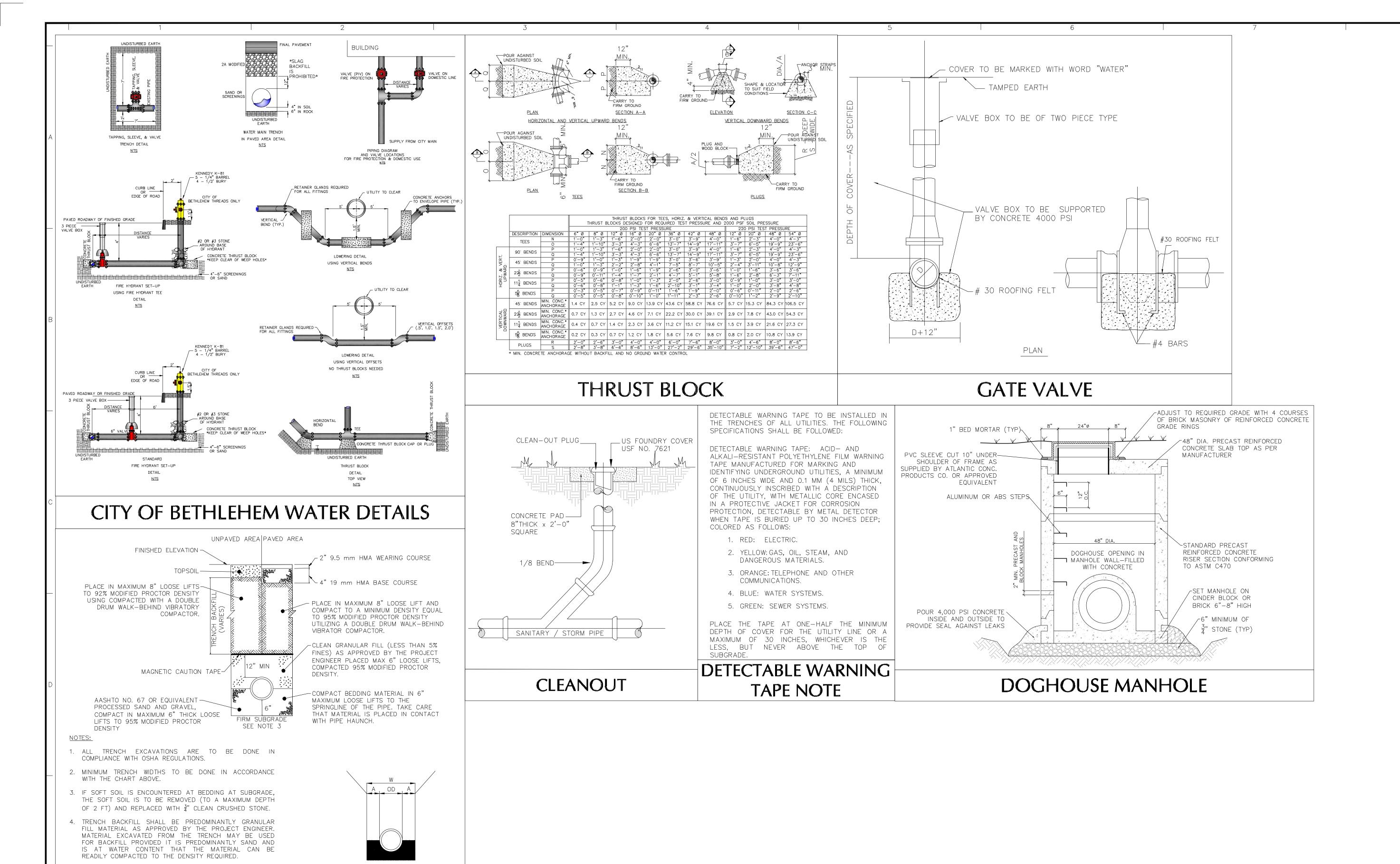
FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

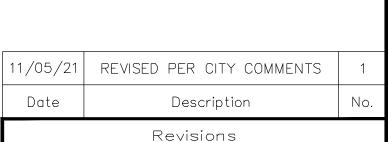
PUMPED FILTER BAG

BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES.



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5. WITHIN PUBLIC RIGHT OF WAY BENEATH PAVEMENT, THE BACKFILL MATERIAL SHALL BE CLEAN CRUSHED STONE EQUIVALENT TO PENNDOT 2A OR CITY ENGINEER APPROVED

6. MAGNETIC UNDERGROUND MARKING TAPE TO BE PROVIDED FOR ALL UTILITIES. REFER TO DETECTABLE WARNING TAPE

7. IN AREAS WHERE THERE IS NOT SUFFICIENT WIDTH FOR A

ACHIEVE COMPACTION WITH APPROPRIATE EQUIPMENT.

8. MAXIMUM PARTICLE SIZE FOR TRENCH BACKFILL SHALL BE 4 INCHES UNLESS APPROVED OTHERWISE BY PROJECT

9. BACKFILL CONTAIN NO DELETERIOUS OR CONTAMINATED

DOUBLE DRUM, WALK BEHIND VIBRATORY COMPACTOR THE

LIFT THICKNESS SHALL BE DECREASED AS NECESSARY TO

48" & LARGER

1. MAXIMUM TRENCH WIDTH "W"

TAKEN AT TOP OF PIPE.

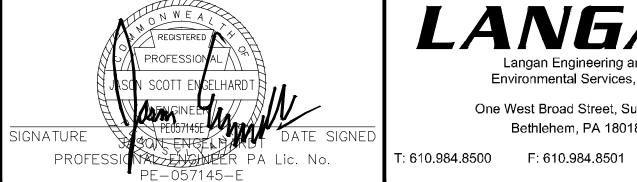
NOTES:

SANITARY AND STORM SEWER TRENCH

EQUIVALENT.

MATERIAL.

NOTES FOR FURTHER DETAIL.



LANGAN Environmental Services, Inc. One West Broad Street, Suite 200 Bethlehem, PA 18018

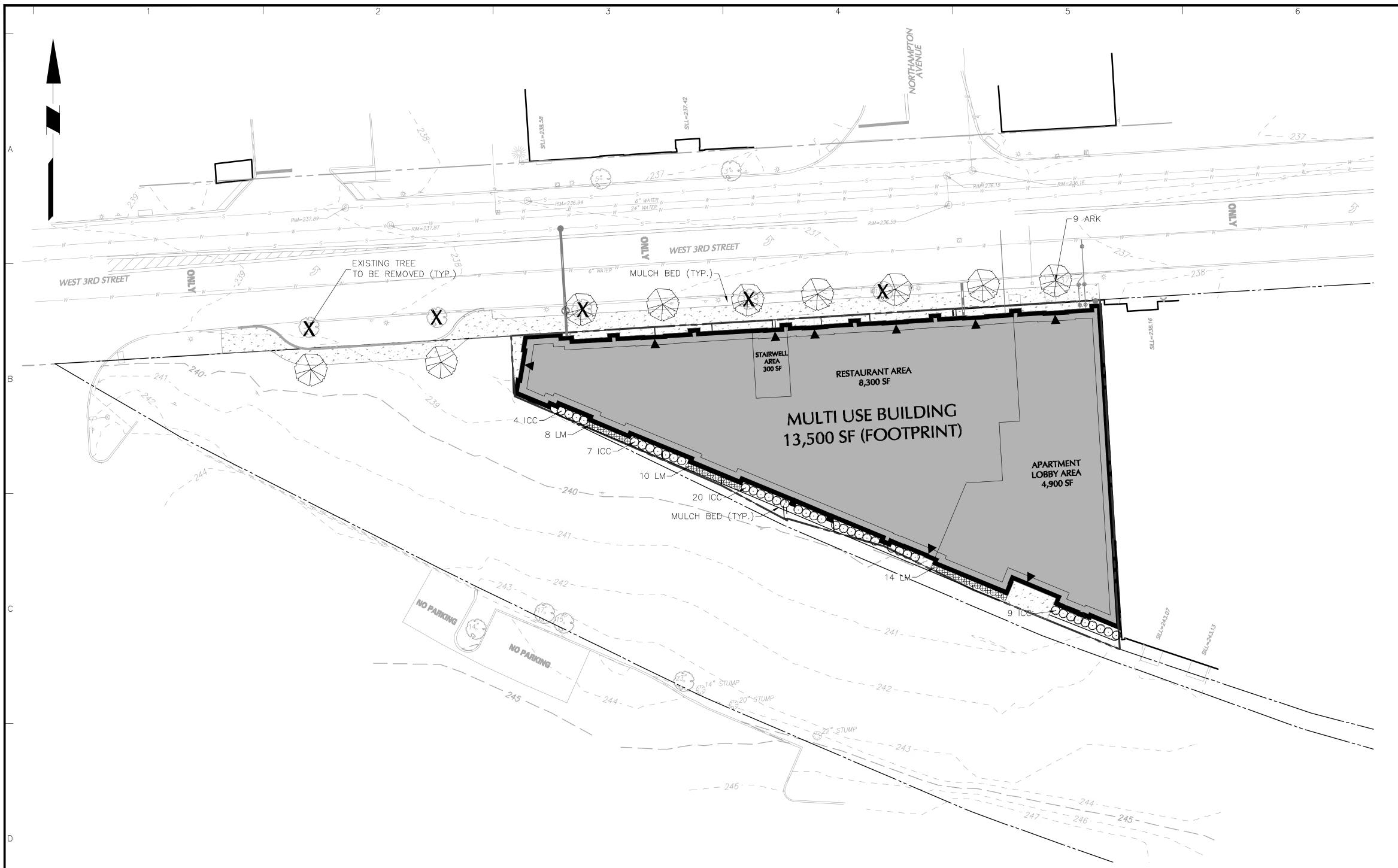
3RD STREET MIXED USE BUILDING

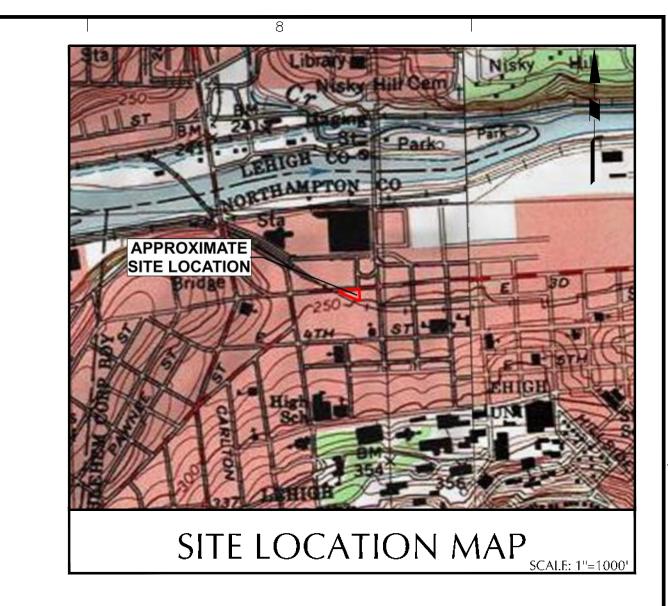
NORTHAMPTON COUNTY

UTILITY AND |DRAINAGE DETAILS | 240052001 CU-501 08/09/21 IDL

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NOTES

1. NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBANCE IS ALLOWED IN THE TREE PROTECTION ZONE UNLESS INDICATED ON THE PLAN.

2. BARRICADES MUST BE INSTALLED PRIOR TO ANY DESTRUCTION AND/OR CONSTRUCTION ACTIVITY. 3. THE ROOT PROTECTION ZONE SHALL BE THE AREA ENCOMPASSED BY A CIRCLE WITH A RADIUS EXTENDING 1.25 FT.

FROM THE TRUNK OF THE TREE FOR EVERY INCH DBH (DIAMETER AT BREAST HEIGHT) OF THE TREE. 4. VIOLATIONS OF TREE PROTECTION REQUIREMENTS ARÈ SUBJECT TO PENALTY PER CITY ORDINANCE 5. ALL TREES ON PUBLIC PROPERTY ARE PROTECTED BY ORDINANCE: NO PRUNING, ROOT PRUNING OF ROOTS OVER ONE

INCH IN DIAMETER, AND/OR TREE REMOVAL IS TO BE PERFORMED WITHOUT A PERMIT AND WORK MUST BE PERFORMED

INCH IN DIAMETER, AND/OR TREE REMOVAL IS TO BE PERFORMED WITHOUT A PERMIT AND WORK MUST BE PERFORMED BY A CITY LICENSED TREE CONTRACTOR.

6. ALL PLANT MATERIALS ARE TO CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.

7. STREET AND PARKING LOT TREES SHALL BE A MINIMUM OF 14'IN HEIGHT AND HAVE A SINGLE STRAIGHT TRUNK WITH THE FIRST LATERAL BRANCH AT 7'ABOVE THE ROOT BALL. TREES WITH AN UPRIGHT BRANCHING HABIT, SUCH AS ZELKOVA, MAY HAVE THE FIRST LATERAL BRANCH AT 6'ABOVE THE ROOT BALL.

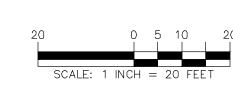
8. ALL LANDSCAPING SHALL CONFORM TO THE CURRENT EDITION OF THE ARBORICULTURAL SPECIFICATIONS AND STANDARDS OF PRACTICE OF THE CITY OF BETHLEHEM.

PL	PLANT SCHEDULE										
KEY	QTY.			ROOT	REMARKS						
ORN A	MENTAL TREE(S)										
ARK	9	ACER RUBRUM 'KARPICK'	KARPICK RED MAPLE	2 1/2"-3" CAL.	B+B	_					
EVER	GREEN SHRUB(S)										
ICC	40	ILEX CRENATA 'COMPACTA'	COMPACT JAPANESE HOLLY	24-30"	#3 CAN	spaced @ 12" o.c.					
PERE	NNIAL(S)										
LM	32	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LILYTURF	1 PT.	CONTAINER	spaced @ 12" o.c.					

NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.

ORDINANCE COMPLIANCE CHART								
ZONING ORDINANCE SECTION	REQUIREMENTS	CALCULATIONS	PROVIDED					
1311.04 C: LANDSCAPING STREET TREES	AN AVERAGE OF AT LEAST ONE STREET TREE SHALL BE PLANTED FOR EACH 30 FEET OF STREET LENGTH, UNLESS EXISTING TREES WILL BE PRESERVED TO SERVE THE SAME PURPOSE.	205 LF STREET FRONTAGE / 30 FEET = 7 TREES	7 PROPOSED TREES					

REFER TO LP-501 FOR LANDSCAPE NOTES AND DETAILS



	11/05/21	REVISED PER CITY COMMENTS				
20	Date	Description				
EET	Revisions					



LANGAN One West Broad Street, Suite 200

3RD STREET MIXED USE BUILDING

CITY OF BETHLEHEM

NORTHAMPTON COUNTY

PENNSYLVANIA

240052001 LANDSCAPE PLAN

LP-101

GENERAL LANDSCAPE PLANTING NOTES:

- 1. NAMES OF PLANTS AS DESCRIBED ON THIS PLAN CONFORM TO THOSE GIVEN IN "STANDARDIZED PLANT NAMES", 1942 EDITION PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE, NAMES OF PLANT VARIETIES NOT INCLUDED THEREIN CONFORM TO NAMES GENERALLY ACCEPTED IN NURSERY TRADE.
- 2. STANDARDS FOR TYPE, SPREAD, HEIGHT, ROOT BALL AND QUALITY OF NEW PLANT MATERIAL SHALL BE IN ACCORDANCE WITH GUIDELINES AS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK", PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. PLANT MATERIAL SHALL HAVE NORMAL HABIT OF GROWTH AND BE HEALTHY, VIGOROUS, AND FREE FROM DISEASES AND INSECT INFESTATION.
- 3. NEW PLANT MATERIAL SHALL BE NURSERY GROWN UNLESS SPECIFIED OTHERWISE. ALL PLANTS SHALL BE SET PLUMB AND SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING. PLANT MATERIAL OF THE SAME SPECIES AND SPECIFIED AS THE SAME SIZE SHOULD BE SIMILAR IN SHAPE, COLOR AND HABIT. THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REJECT PLANT MATERIAL THAT DOES NOT CONFORM TO THE TYPICAL OR SPECIFIED
- 4. THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS. IF THE SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, THE CONTRACTOR SHALL SUBMIT PROOF OF NON-AVAILABILITY TO THE LANDSCAPE ARCHITECT AND OWNER TOGETHER WITH A WRITTEN PROPOSAL FOR USE OF AN EQUIVALENT MATERIAL.
- 5. THE LANDSCAPE ARCHITECT MAY REVIEW PLANT MATERIALS AT THE SITE, BEFORE PLANTING, FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE, AND QUALITY. THE LANDSCAPE ARCHITECT RETAINS THE RIGHT TO FURTHER REVIEW PLANT MATERIALS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEM, INSECTS, INJURIES, AND LATENT DEFECTS. AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. THE CONTRACTOR SHALL REMOVE REJECTED PLANT MATERIALS IMMEDIATELY FROM PROJECT SITE AS DIRECTED BY THE LANDSCAPE ARCHITECT OR OWNER.

PLANTING SOILS

- 1. REUSE SURFACE SOILS STOCKPILED ON SITE, VERIFYING COMPLIANCE WITH PLANTING SOIL AND TOPSOIL CRITERIA IN THIS SPECIFICATION THROUGH TESTING. CLEAN SURFACE SOIL OF ALL ROOTS, PLANTS, SOD, AND GRAVEL OVER 1" IN DIAMETER AND DELETERIOUS MATERIALS, IF ON-SITE SOILS ARE TO BE USED FOR PROPOSED PLANTING, THE CONTRACTOR SHALL DEMONSTRATE, THROUGH SOIL TESTING, THAT ON-SITE SOILS MEET THE SAME CRITERIA AS INDICATED IN NOTES PLANS AND
- 2. SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF SITE SOURCES WHEN TOPSOIL AND PLANTING SOIL QUANTITIES ARE INSUFFICIENT. OBTAIN SOIL DISPLACED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST 4" DEEP. DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS, MARSHES OR CONTAMINATED SITES.
- 3. IF DEPTH OF PLANTING SOILS AND TOPSOIL IS NOT INDICATED IN PLANS OR DETAILS, A MINIMUM 18" DEPTH SHALL BE PROVIDED FOR ALL TREES AND LARGE SHRUBS; MINIMUM 12" DEPTH SHALL BE PROVIDED FOR GROUNDCOVERS, HERBACEOUS AND MEADOW OR ORNAMENTAL GRASS AREAS AND A MINIMUM 6" LAYER SHALL BE INSTALLED IN ALL LAWN AREAS, TOPSOIL AND PLANTING SOIL DEPTH INDICATED ON PLANS AND PLANTING DETAILS AND NARRATIVE SPECIFICATIONS SHALL GOVERN
- 4. WHERE PLANTING AREAS ARE PROPOSED FOR FORMER PAVED OR GRAVEL AREAS, BEDS SHALL BE EXCAVATED TO A MINIMUM 30" DEPTH AND, AT A MINIMUM, BE BACKFILLED WITH BOTTOM LAYER OF SANDY LOAM (ORGANIC CONTENT LESS THAN 2%) OVER WHICH TOPSOIL AND PLANTING SOILS WILL BE PLACED AT DEPTHS INDICATED IN PLANS, DETAILS AND NOTES.
- 5. IF THE QUANTITY OF SOILS FROM THE SITE IS NOT ADEQUATE TO FILL PLANTING AREAS TO A DEPTH INDICATED IN PLANS AND DETAILS, TOPSOIL AND PLANTING SOILS TO DETERMINE IF THE MATERIALS ARE CONDUCIVE TO SUSTAINING PROPOSED PLANTINGS SHOULD BE FURNISHED BY THE CONTRACTOR. TOPSOIL AND PLANTING SOILS SHALL BE FREE OF BROKEN GLASS, PAINT CHIPS, PLASTIC, DELETERIOUS MATERIALS, ROOTS, WEEDS, BOULDERS, COBBLES AND GRAVEL OVER 1" IN DIAMETER AND COMPLY WITH THE FOLLOWING CRITERIA:
- -SOILS SHALL MEET ALL APPLICABLE SOIL REMEDIATION STANDARDS -ORGANIC CONTENT: 2-5% IN NATIVE SOILS; UP TO 10% IN AMENDED SOILS
- -SOLUBLE SALTS: LESS THAN 0.5 MM HOS/CM -SOIL PH: 4.5-7% TO BE AMENDED PER SOIL TEST RESULTS
- -PHYSICAL (SIEVE) ANALYSIS/ SOIL TEXTURE
- SAND: 40-60% SILT: 25-60% CLAY: 5-20% -NOT MORE THAN 1% OF MATERIAL SHALL BE RETAINED BY A #4 SIEVE.
- 6. ALL PLANTING SOILS SHALL BE SUBMITTED FOR TESTING TO THE STATE COOPERATIVE EXTENSION SERVICE, OR APPROVED EQUAL, PRIOR TO DELIVERY TO THE SITE. CONTRACTOR SHALL FURNISH SOIL SAMPLES AND SOIL TEST RESULTS TO LANDSCAPE ARCHITECT OR OWNER AT A RATE OF ONE SAMPLE PER 500 CUBIC YARDS TO ENSURE CONSISTENCY ACROSS THE TOTAL VOLUME OF PLANTING SOIL REQUIRED. TEST RESULTS SHALL EVALUATE FOR ALL CRITERIA LISTED IN THIS SPECIFICATION. IF TESTING AGENCY DETERMINES THAT THE SOILS ARE DEFICIENT IN ANY MANNER AND MAY BE CORRECTED BY ADDING AMENDMENTS, THE CONTRACTOR SHALL FOLLOW STATED RECOMMENDATIONS FOR SOIL IMPROVEMENT AND FURNISH SUBMITTALS FOR ALL AMENDMENTS PRIOR TO DELIVERY OF SOIL TO THE PROJECT SITE.
- 7. IF SOIL ORGANIC CONTENT IS INADEQUATE, SOIL SHALL BE AMENDED WITH COMPOST OR ACCEPTABLE, WEED FREE, ORGANIC MATTER, ORGANIC AMENDMENT SHALL BE WELL COMPOSTED, PH RANGE OF 6-8; MOISTURE CONTENT 35-55% BY WEIGHT 100% PASSING THROUGH 1" SIEVE; SOLUBLE SALT CONTENT LESS THAN 0.5 MM HOS/CM; MEETING ALL APPLICABLE ENVIRONMENTAL CRITERIA FOR CLEAN FILL; FREE OF BROKEN GLASS, PAINT CHIPS, PLASTIC, DELETERIOUS MATERIALS, ROOTS, WEEDS, BOULDERS, COBBLES AND GRAVEL OVER 1" IN DIAMETER
- 8. SCARIFY AND/OR TILL ALL COMPACTED SUBSOILS PRIOR TO ADDING PLANTING SOIL OR TOPSOIL. PLANTING SOILS AND TOPSOIL SHALL BE PLACED IN 12-18" LIFTS AND WATER THOROUGHLY BEFORE INSTALLING NEXT LIFT. NO SOILS SHALL BE PLACED IN A FROZEN OR MUDDY CONDITION.

DELIVERY, STORAGE, AND HANDLING

- 1. PACKAGED MATERIALS: PACKAGED MATERIALS SHALL BE DELIVERED IN CONTAINERS SHOWING WEIGHT, ANALYSIS, AND NAME OF MANUFACTURER. MATERIALS SHALL BE PROTECTED FROM DETERIORATION DURING DELIVERY, AND WHILE STORED AT SITE.
- 2. TREES AND SHRUBS: THE CONTRACTOR SHALL PROVIDE TREES AND SHRUBS DUG FOR THE GROWING SEASON FOR WHICH THEY WILL BE PLANTED. DO NOT PRUNE PRIOR TO DELIVERY UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DAMAGE BARK, BREAK BRANCHES, OR DESTROY NATURAL SHAPE. PROVIDE PROTECTIVE COVERING DURING TRANSIT. DO NOT DROP OR BREAK BALLED STOCK DURING DELIVERY OR
- 3. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT BALL WRAPPING AND BINDING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED FROM THE TOP OF THE BALL AT THE TIME OF PLANTING, IF THE PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, THE WIRE BASKET SHALL BE CUT AND FOLDED DOWN 8" INTO THE PLANTING HOLE. WITH CONTAINER-GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE ROOT BALL SHALL BE CUT THROUGH THE SURFACE IN TWO LOCATIONS.
- 4. THE CONTRACTOR SHALL HAVE TREES AND SHRUBS DELIVERED TO SITE AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND PLANT IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN 6 HOURS AFTER DELIVERY, THE CONTRACTOR SHALL SET TREES AND SHRUBS IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE AND KEEP ROOTS MOIST BY COVERING WITH MULCH, BURLAP OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE.

INSTALLATIÓN

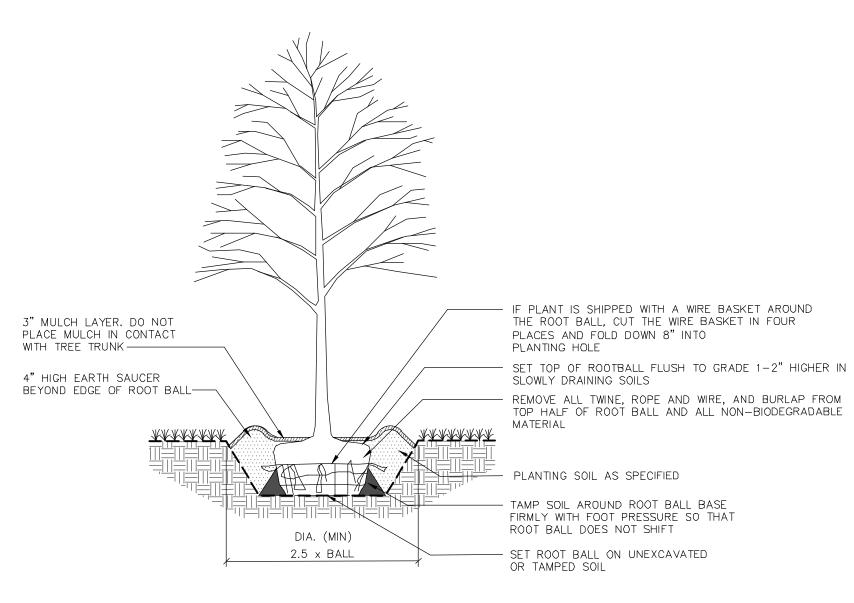
- 1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY AND SEWER LINES PRIOR TO THE START OF EXCAVATION ACTIVITIES. NOTIFY THE PROJECT ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED PLANTING LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE.
- 2. THE CONTRACTOR TO STAKE OUT PLANTING LOCATIONS, FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND/OR OWNER BEFORE PLANTING WORK BEGINS. THE LANDSCAPE ARCHITECT AND/OR OWNER SHALL DIRECT THE CONTRACTOR IN THE FINAL PLACEMENT OF ALL PLANT MATERIAL AND LOCATION OF PLANTING BEDS TO ENSURE COMPLIANCE WITH DESIGN INTENT UNLESS OTHERWISE INSTRUCTED.
- 3. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR PROJECT ENGINEER.
- 4. ALL LANDSCAPED AREAS TO BE CLEARED OF ROCKS, STUMPS, TRASH AND OTHER UNSIGHTLY DEBRIS. ALL FINE GRADED AREAS SHOULD BE HAND RAKED SMOOTH ELIMINATING ANY CLUMPS AND UNEVEN SURFACES PRIOR TO PLANTING OR
- 5. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS, NOTES AND CONTRACT SPECIFICATIONS. THE LANDSCAPE ARCHITECT MAY REVIEW INSTALLATION AND MAINTENANCE PROCEDURES.
- 6. THE CONTRACTOR SHALL KEEP AREA CLEAN DURING DELIVERY AND INSTALLATION OF PLANT MATERIALS. REMOVE AND DISPOSE OF OFF-SITE ANY ACCUMULATED DEBRIS OR UNUSED MATERIALS. REPAIR DAMAGE TO ADJACENT AREAS CAUSED BY LANDSCAPE INSTALLATION OPERATIONS.
- 7. AFTER PLANT IS PLACED IN TREE PIT LOCATION, ALL TWINE HOLDING ROOT BALL TOGETHER SHOULD BE COMPLETELY REMOVED AND THE BURLAP SHOULD BE PULLED DOWN SO 1/3 OF THE ROOT BALL IS EXPOSED. SYNTHETIC BURLAP SHOULD BE COMPLETELY REMOVED AFTER INSTALLATION.
- 8. MULCH SHOULD NOT BE PILED UP AROUND THE TRUNK OF ANY PLANT MATERIAL. NO MULCH OR TOPSOIL SHOULD BE TOUCHING THE BASE OF THE TRUNK ABOVE THE ROOT COLLAR.
- 9. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR AS REQUIRED BY SITE AND WEATHER CONDITIONS TO MAINTAIN VIGOROUS AND HEALTHY
- AND THAT ARE NOT COVERED BY LANDSCAPE PLANTING OR SEEDING AS SPECIFIED, SHALL BE COVERED BY A SHREDDED HARDWOOD BARK OR APPROVED EQUAL MULCH THAT WILL PREVENT SOIL EROSION AND THE EMANATION OF DUST.

10. AFTER COMPLETION OF A PROJECT, ALL EXPOSED GROUND SURFACES THAT ARE NOT PAVED WITHIN THE CONTRACT LIMIT LINE,

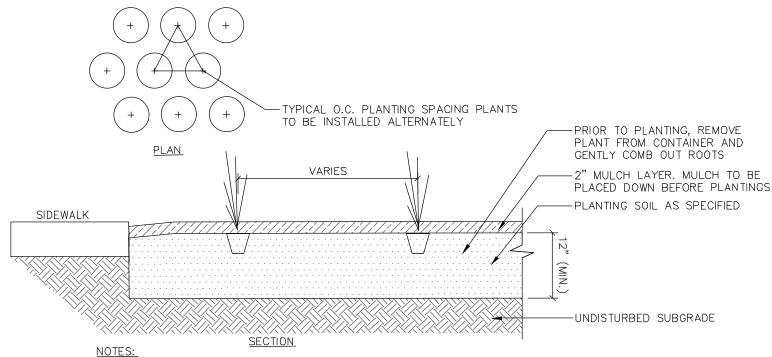
11. DECIDUOUS TREES AND EVERGREEN TREES TO BE STAKED WITH THREE VERTICAL STAKES. STAKE AND GUYS SHOULD BE LOCATED AND FLAGGED IN A MANNER TO PREVENT TRIPPING HAZARDS. WIRES OR GUYS SHALL BE LOCATED AND COVERED SO AS NOT TO PULL OR DAMAGE BRANCHES AND SHALL BE REMOVED AT THE END OF THE GUARANTEE PERIOD.

GUARANTEF

1. NEW PLANT MATERIAL SHALL BE GUARANTEED TO BE ALIVE AND IN VIGOROUS GROWING CONDITION FOR A PERIOD OF 12 MONTHS FOLLOWING ACCEPTANCE BY THE OWNER. PLANT MATERIAL FOUND TO BE UNHEALTHY, DYING OR DEAD DURING THIS PERIOD, SHALL BE REMOVED AND REPLACED IN KIND BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

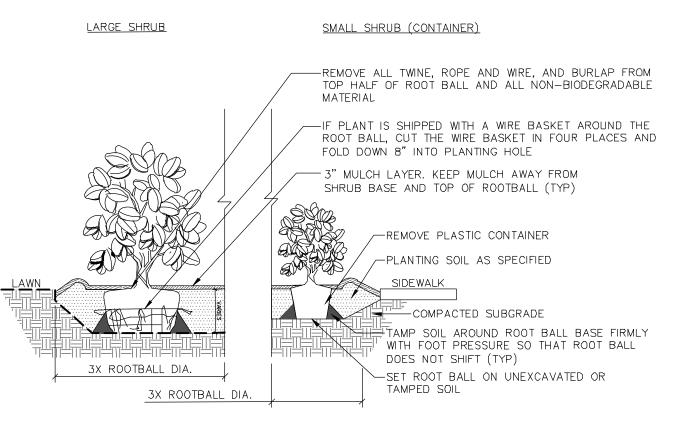


DECIDUOUS TREE PLANTING



1. PLANTS ARE TO BE SPACED EQUIDISTANT FROM EACH OTHER. 2. REFER TO PLAN AND SCHEDULE FOR SPACING OF INDIVIDUAL PLANTS. 3. REMOVE ALL WIRE, PLASTIC, TAGS OR SYNTHETIC MATERIAL FROM PLANTS PRIOR TO PLANTING.





<u>NOTES:</u>

- 1. ALL SHRUBS TO BE SET PLUMB.
- 2. REFER TO LANDSCAPE PLAN FOR SPACING OF INDIVIDUAL PLANTS.
- 3. REMOVE ALL WIRE, PLASTIC, TAGS OR SYNTHETIC MATERIAL FROM PLANTS PRIOR TO PLANTING.

REFER TO LP-101 FOR LANDSCAPE PLAN, LANDSCAPE SCHEDULE AND ORDINANCE COMPLIANCE

11/05/21 REVISED PER CITY COMMENTS SIGNATURE Date Description MICHAEL SZURA REGISTERED LANDSCAPE ARCHITECT PA Lic. No.

Revisions

LANGAN Environmental Services, Inc. One West Broad Street, Suite 200 Bethlehem, PA 18018

T: 610.984.8500 F: 610.984.8501 www.langan.com

DATE SIGNED

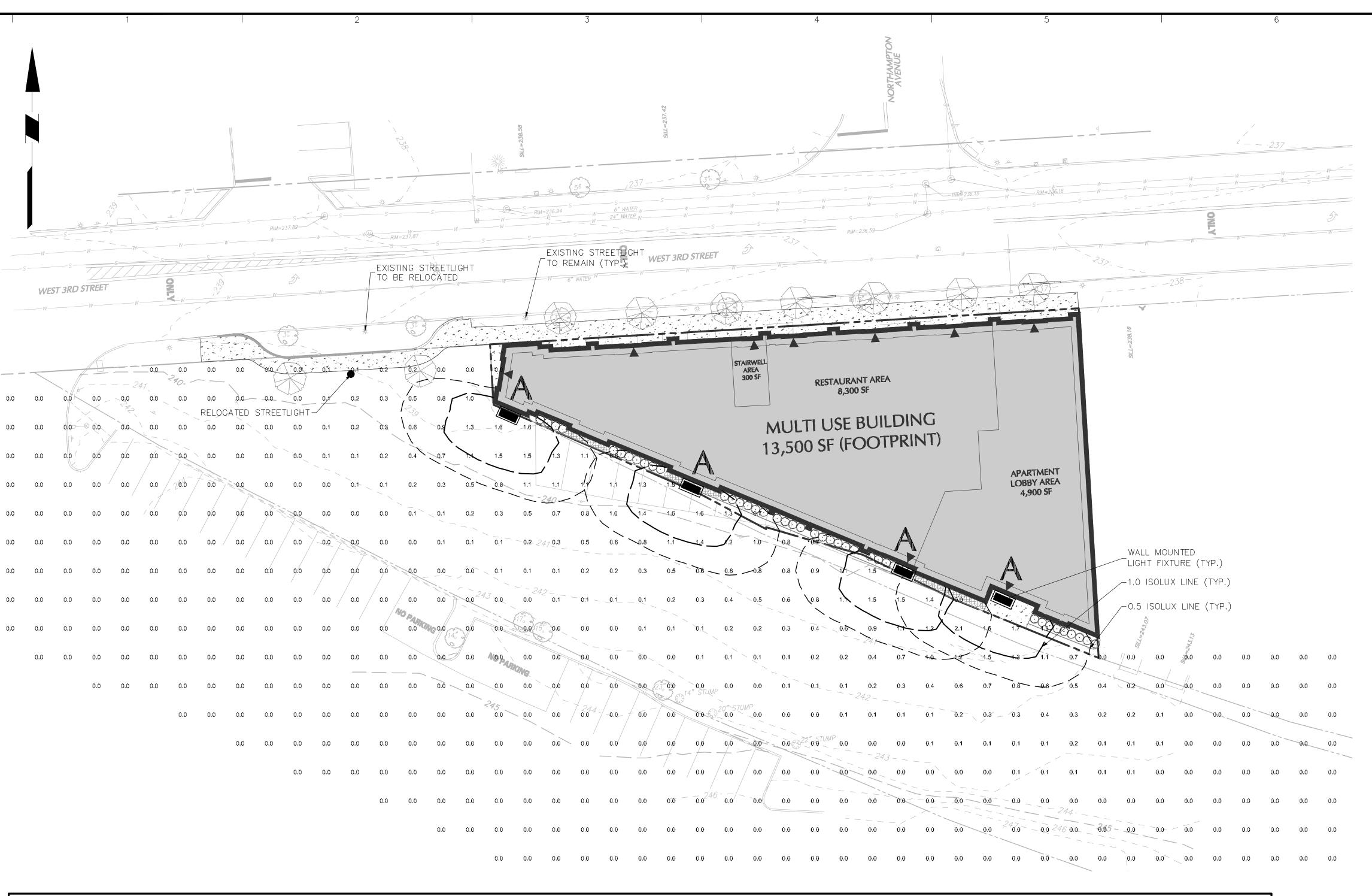
3RD STREET MIXED USE BUILDING

NORTHAMPTON COUNTY PENNSYLVANIA

LANDSCAPE **DETAILS AND NOTES**

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SITE LIGHTING SCHEDULE

SYME	OL I	KEY	QTY.	FIXTURE MANUFACTURER	FIXTURE MODEL	FIXTURE DESCRIPTION	FIXTURE MOUNTING HEIGHT	COLOR TEMPERATURE	LAMP	OPTICS	LUMENS	LLF IES FILE	FIXTURE CATALOGUE NO.	POLE DESCRIPTION	POLE MANUFACTURER	POLE CATALOGUE NO.
	ı	A	4	LITHONIA LIGHTING	D-SERIES	LED WALL MOUNTED LUMINAIRE	20'	3,000K	38 WATT LED	TYPE II S	3,685	DSXWPM- LED-10C- 0.90 1000-30K- T2S- MVOLT.IES	DSXWPM-LED-10C- 1000-30K-T2S-MVOLT	N/A	N/A	N/A

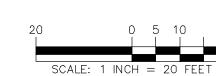
NOTE:

- 1. LIGHT PHOTOMETRY AND CALCULATIONS FOR EXISTING AND ADJACENT LIGHTING TO REMAIN ARE NOT INCLUDED IN THE ABOVE STATISTICS.
- 2. ALL OF THE FOOT—CANDLE LEVELS SHOWN ON THIS PLAN ARE INITIAL FOOT—CANDLE VALUES AND ARE TAKEN AT THE HORIZONTAL PLANE AT GRADE LEVEL

MEET ALL CURRENT CODE REQUIREMENTS. IF SUCH DOCUMENTATION CANNOT BE FURNISHED, NEW POLES SHOULD BE SPECIFIED TO MEET ALL CURRENT CODES.

3. STATISTICS AS SHOWN ABOVE REPRESENT INITIAL VALUES AND WILL LIKELY DIMINISH OVER TIME.
4. THE CONTRACTOR SHALL SUBMIT A SIGNED, SEALED STATEMENT FROM A STATE—LICENSED STRUCTURAL ENGINEER TO VERIFY THE CONDITION OF THE POLES TO BE REUSED AND CONFIRMING THAT THE POLES WILL WITHSTAND THE ASCE 7—16 WIND LOADS FOR THE SITE AND

NOTES:
REFER TO LL501 FOR LIGHTING DETAILS
AND NOTES.
BUILDING MOUNTED LIGHTS TO BE
COORDINATED WITH ARCHITECT PRIOR
TO INSTALLATION.



			_			
	11/05/21	REVISED PER CITY COMMENTS				
20	Date Description					
T		Revisions				



LANGA Environmental Services, Inc.

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Bethlehem, PA 18018
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3RD STREET MIXED USE BUILDING

LIGHTING PLAN

Project No.

2400)

Date

08/0

Drawn By

SN

Checked By

PHOTOMETRIC LIGHTING TEMPLATE:

NOTE: THE PHOTOMETRIC TEMPLATE REPRESENTS LIGHT THROW FOR EACH INDIVIDUAL FIXTURE. IT DOES NOT REPRESENT LIGHT COMING FROM OTHER SOURCES.

- 1.0 FOOTCANDLES

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 Date: 11/9/2021 Time: 16:23 User: ilaluz Style Table: Langan.stb Layout: LL-101 Document Code: 240052001-0501-LL101-0101

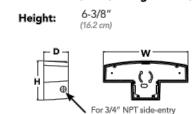
LIGHTING NOTES:

- 1. POINT—BY—POINT CALCULATIONS PROVIDED WITHIN HAVE BEEN PREPARED IN ACCORDANCE TO IESNA STANDARDS AND IN CONSIDERATION OF THE VARIABLES WITHIN THESE NOTES AND SITE LIGHTING SCHEDULE. THE VALUES SHOWN ON THE PLANS ARE NOT AN INDICATION OF THE INITIAL LIGHT INTENSITIES OF THE LAMPS. THESE VALUES ARE AN APPROXIMATION OF THE MAINTAINED INTENSITIES DELIVERED TO THE GROUND PLANE USING INDUSTRY ACCEPTABLE LIGHT LOSS FACTORS (LLF) WHICH COVER LAMP DEGRADATION AND NATURAL BUILDUP ON THE FIXTURE LENS. THE LIGHTING PLAN IS DESIGNED WITH AN INDUSTRY ACCEPTABLE LLF TO ENSURE ADEQUATE LIGHT INTENSITIES OVER YEARS OF USE AND WEAR. MINOR VARIATIONS IN TOPOGRAPHY, PHYSICAL OBSTRUCTIONS, AMBIENT OR ADJACENT LIGHT SOURCES AND/OR OTHER POTENTIAL IMPACTS HAVE NOT BEEN INCLUDED IN THESE CALCULATIONS. THEREFORE, AS-BUILT LIGHT INTENSITIES MAY VARY, IN EITHER DIRECTION, FROM WHAT IS EXPLICITLY PORTRAYED WITHIN THESE DRAWINGS.
- PROVIDE A CONCRETE BASE FOR EACH LIGHT POLE AT THE LOCATIONS INDICATED ON THE CONSTRUCTION DRAWINGS AND IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS RELATING DIRECTLY TO CAST-IN-PLACE CONCRETE.
- 3. CONTRACTOR TO COORDINATE INSTALLATION OF UNDERGROUND FEEDER CABLE FOR EXTERIOR LIGHTING WITH EXISTING AND PROPOSED UTILITIES, SITE DRAINAGE SYSTEMS, AND PAVING. CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE SHOULD ANY UTILITIES, NOT SHOWN ON THE PLANS, BE FOUND DURING EXCAVATIONS.
- 4. CONTRACTOR TO OPERATE EACH LUMINAIRE AFTER INSTALLATION AND CONNECTION. INSPECT FOR IMPROPER CONNECTIONS AND OPERATION.
- 5. AIM AND ADJUST ALL LUMINAIRES TO PROVIDE ILLUMINATION LEVELS AND DISTRIBUTION AS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR OWNER.
- 6. CONTRACTOR TO COORDINATE INSTALLATION OF ALL THE WALL MOUNTED FIXTURES AND ELECTRICAL CONNECTIONS TO SITE STRUCTURE(S) WITH BUILDING MEP, ARCHITECT, AND/OR OWNER.
- 7. INSTALLATION OF ALL LIGHTING FIXTURES, POLES, FOOTINGS, AND FEEDER CABLE TO BE COORDINATED WITH ALL SITE WORK TRADES TO AVOID CONFLICT WITH FINISHED AND PROPOSED WORK.
- 8. POINT SPACING ON PLACE OF CALCULATION IS 10 FT. LEFT TO RIGHT AND 10 FT. TOP TO BOTTOM. POINT BY POINT CALCULATIONS ARE BASED ON A 1.00 MAINTENANCE FACTOR.
- POINT-BY-POINT CALCULATIONS PROVIDED WITHIN HAVE BEEN PREPARED IN ACCORDANCE TO IESNA STANDARDS AND IN CONSIDERATION OF THE VARIABLES WITHIN THESE NOTES AND SITE LIGHTING SCHEDULE. THE VALUES REPRESENTED ON THE PLANS PRESENT AN APPROXIMATION OF THE INITIAL LIGHT LEVELS DELIVERED TO THE GROUND PLANE. MINOR VARIATIONS IN TOPOGRAPHY, PHYSICAL OBSTRUCTIONS, LAMP DEGRADATION, AMBIENT OR ADJACENT LIGHT SOURCES AND/OR OTHER POTENTIAL IMPACTS HAVE NOT BEEN INCLUDED IN THESE CALCULATIONS. GIVEN THIS, AS-BUILT VALUES MAY VARY, GREATER THAN OR LESS THAN, WHAT IS EXPLICITLY PORTRAYED WITHIN THESE DRAWINGS
- 10. ALL SITE LIGHTING RELATED WORK AND MATERIALS SHALL COMPLY WITH CITY, COUNTY, AND OTHER APPLICABLE GOVERNING AUTHORITY REQUIREMENTS.
- 11. SITE ELECTRICAL CONTRACTOR TO COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES AND DRAINAGE BEFORE DRILLING POLE BASES.
- 12. SITE ELECTRICAL CONTRACTOR TO COORDINATE POWER SOURCE WITH LIGHT FIXTURES TO INSURE ALL SITE LIGHTING IS OPERATING EFFECTIVELY, EFFICIENTLY AND SAFELY.
- 13. SITE ELECTRICAL CONTRACTOR SHALL CONFIRM THAT LIGHT FIXTURES MATCH SPECIFICATIONS ON THE PLANS.
- 14. REFER TO ELECTRIFICATION PLAN FOR PROVIDING ADEQUATE POWER FOR SITE LIGHTING.
- 15. SITE ELECTRICAL CONTRACTOR SHALL EXAMINE AND VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO SUPPORT LOADS EXERTED UPON THE FOUNDATIONS DURING EXCAVATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNSATISFACTORY CONDITIONS.
- 16. UNDERGROUND LIGHTING CONDUIT TO BE COORDINATED WITH PROPOSED TREES TO AVOID CONFLICT.
- 17. POLE FOUNDATIONS SHALL NOT BE POURED IF FREE STANDING WATER IS PRESENT IN EXCAVATED AREA.
- 18. ELECTRICIAN AND INSTALLATION OF WALL MOUNTED FIXTURES SHALL BE COORDINATED WITH THE ARCHITECTURAL, STRUCTURAL, AND SITE DRAWINGS FOR SAFETY AND TO PROVEN EXPOSED WIRING.
- 19. LIGHTING SUBSTITUTION REQUIREMENTS: ALL LIGHTING SUBSTITUTIONS MUST BE MADE WITHIN 14 DAYS PRIOR TO THE BID DATE TO PROVIDE AMPLE TIME FOR REVIEW AND TO ISSUE AN ADDENDUM INCORPORATING THE SUBSTITUTION WITH THE FOLLOWING
- A. ANY SUBSTITUTION TO LIGHTING FIXTURES, POLES, ETC. MUST BE APPROVED BY THE OWNER, ENGINEER AND TENANTS. ANY COST ASSOCIATED WITH REVIEW AND/OR APPROVAL OF THE SUBSTITUTIONS SHALL BE ENTIRELY BORNE BY THE CONTRACTOR
- B. ALL LIGHTING SUBSTITUTIONS SHALL BE REVIEWED AND APPROVED BY TOWNSHIP PRIOR TO ORDERING OF
- FIXTURES. C. COMPUTER PREPARED PHOTOMETRIC LAYOUT OF THE PROPOSED LIGHTED AREA WHICH INDICATES, BY ISOFOOTCANDLE, THE SYSTEM'S PERFORMANCE.
- D. A PHOTOMETRIC REPORT FROM A NATIONAL INDEPENDENT TESTING LABORATORY WITH REPORT NUMBER, DATE, FIXTURE CATALOG NUMBER, LUMINAIRE AND LAMP SPECIFICATIONS; IES CALCULATIONS, CANDLEPOWER TABULATIONS, ZONE LUMEN SUMMARY, ISOLUX PLOT, AND CATALOGUE CUTS. CATALOGUE CUTS MUST IDENTIFY, BUT NOT LIMITED TO, OPTICS, LAMP TYPE, DISTRIBUTION TYPE, REFLECTOR, LENS, BALLASTS, WATTAGE, VOLTAGE, FINISH AND HOUSING DESCRIPTION.
- E. POLE MANUFACTURER AASHTO CALCULATIONS INDICATING THE POLE AND ANCHOR BOLTS BEING SUBMITTED ARE CAPABLE OF SUPPORTING THE POLE AND FIXTURE SYSTEMS BEING UTILIZED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- F. THE UNDERWRITERS LABORATORY LISTING AND FILE NUMBER FOR THE SPECIFIC FIXTURE(S) TO BE UTILIZED.
- G. A COLOR PHOTOGRAPH THAT CLEARLY SHOWS THE REPLACEMENT FIXTURE POLE MOUNTED, THE FIXTURE'S COLOR, FINISH, AND PHYSICAL CHARACTERISTICS.
- 20. LIGHTING LEVELS FOR OFF-STREET PARKING LOTS SHALL BE TURNED OFF NO LATER THAN ONE HOUR AFTER THE
- ENDING OF THE USE ON SITE EXCEPT FOR LIGHTS WHICH ARE NECESSARY FOR SECURITY PURPOSES 21. POST APPROVAL ALTERNATIONS OF LIGHTING PLANS OR INTENDED SUBSTITUTIONS FOR APPROVED LIGHTING
- EQUIPMENT SHALL BE SUBMITTED TO THE TOWNSHIP FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION 22. THE TOWNSHIP RESERVES THE RIGHT TO CONDUCT POST INSTALLATION NIGHTTIME INSPECTIONS TO VERIFY COMPLIANCE WITH COMMITMENTS MADE ON THE APPROVED LIGHTING PLAN AND, IF APPROPRIATE, TO REQUIRE



Back Box (BBW, E20WC)

13-3/4" BBW (34.9 cm) Weight: E20WC (10.2 cm) Weight:



conduit (BBW only)

It the Tab key or mouse over the page to see all interactive elements

Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance. With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are

Ordering Information

Specifications

13-3/4"

(34.9 cm)

(25.4 cm)

Luminaire

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

exceptionally illuminated.

DSXW1 LED							
Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options
DSXW1 LED	10C 10 LEDs (one engine) 20C 20 LEDs (two engines) 1	350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A) 1	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium	MVOLT ² 120 ³ 208 ³ 240 ³ 277 ³ 347 ^{3,4} 480 ^{3,4}	Shipped included (blank) Surface mounting bracket BBW Surface mounted back box (for conduit entry) 5	PE Photoelectric cell, button type ⁶ DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) PIR 180° motion/ambient light sensor, <15′ mtg ht ^{1,2} PIRH 180° motion/ambient light sensor, 15-30′ mtg ht ^{1,2} PIRHFC3V Motion/ambient sensor, 8-15′ mounting height, ambient sensor enabled at 1fc ^{1,2} PIRH1FC3V Motion/ambient sensor, 15-30′ mounting height, ambient sensor enabled at 1fc ^{1,2} E20WC Emergency battery backup (includes external component enclosure), CA Title 20 compliant ^{4,9}

Other Options												
Shipp	Shipped installed Shipped separately ³¹		DDBXD	Dark bronze	DSSXD	Sandstone	DWHGXD	Textured white				
SF	Single fuse (120, 277 or 347V) 330	BSW	Bird-deterrent spikes	DBLXD	Black	DDBTXD	Textured dark bronze	DSSTXD	Textured sandstone			
DF	Double fuse (208, 240 or 480V) 3,10	VG	Vandal guard	DNAXD	Natural aluminum	DBLBXD	Textured black					
HS	House-side shield 11	DDL	Diffused drop lens	DWHXD	White	DNATXD	Textured natural aluminum					
SPD	Separate surge protection 12											

Accessories

DSXWHS U House-side shield (one per light engine) DSXWBSW U Bird-deterrent spikes

DSXW1VG U Vandal guard accessory

- 2 MVQLT driver operates on any line voltage from 120-277V (50/60 Hz) Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- 4 Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH. 5 Back box ships installed on fixture, Cannot be field installed. Cannot be ordered as an accessory.
- Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH). 7 Reference Motion Sensor table on page 3.
- 8 Same as old ELCW, Cold weather (-20C) rated. Not compatible with conduit entry applications, Not available with BBW mounting option. Not available with fusing, Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at 1881 9 Not available with SPD. 10 Not available with E20WC
- 11 Also available as a separate accessory; see Accessories information. 12 Not available with E20WC.

1 20C 1000 is not available with PIR. PIRH. PIR1FC3V or PIRH1FC3V

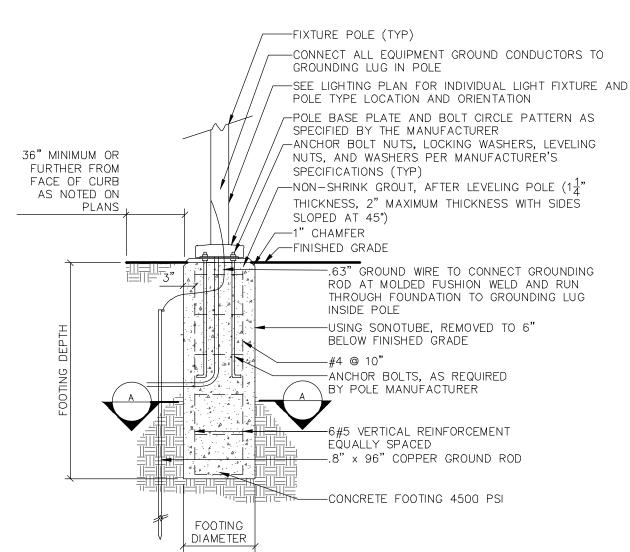


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DSXW1-LED Rev. 6/02/21



<u> \FIXTURE A - WALL MOUNTED LIGHT FIXTURE</u>

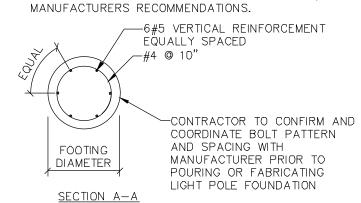


MOUNTING | FOOTING | VERTICAL DEPTH REINFORCEMENT HEIGHT DIAMETER 6 #5 BARS

1. VERTICAL AND HORIZONTAL BARS SHALL BE FIELD TIED. WELDING IS NOT PERMITTED. THE CONTRACTOR SHALL SUPPORT REINFORCEMENT IN ITS PROPER LOCATION FROM THE FORMWORK DURING CONCRETE OPERATION.

2. THE CONTRACTOR SHALL REMOVE WATER PRESENT IN HOLE PRIOR TO POURING

- 3. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO THE POLE AND FIXTURE INSTALLATION WITH THE MANUFACTURER. THE ENGINEER AND/OR OWNER TO BE NOTIFIED OF ANY DISCREPANCIES.
- 4. INSTALLATION OF POLE FOOTING IN CONCRETE PAVING REQUIRES 🖟 EXPANSION JOINT FILLER SEALED WITH JOINT SEALANT.
- 5. THE INFORMATION ILLUSTRATED IN THE LIGHT POLE FOUNDATION DETAIL HAS BEEN PROVIDED FOR GENERAL REFERENCE AND PRELIMINARY COST ESTIMATE PURPOSES. LIGHT POLE FOUNDATIONS SHOULD BE DESIGNED AND DETAILED BY A LICENSED STRUCTURAL ENGINEER BASED ON EXISTING SOIL CONDITIONS, LOCAL DESIGN STANDARDS AND



LIGHT FIXTURE FOUNDATION



DATE SIGNED

LA-002533

REFER TO LL101 FOR LIGHTING PLAN, SCHEDULE AND STATISTICS.

REMEDIAL ACTION AT NO EXPENSE TO THE TOWNSHIP.

11/05/21 REVISED PER CITY COMMENTS Date Description Revisions

SIGNATURE MICHAEL SZURA REGISTERED LANDSCAPE ARCHITECT PA Lic. No. LANGAN Environmental Services, Inc. One West Broad Street, Suite 200 Bethlehem, PA 18018

T: 610.984.8500 F: 610.984.8501

3RD STREET MIXED USE BUILDING

CITY OF BETHLEHEM NORTHAMPTON COUNTY PENNSYLVANIA

LIGHTING DETAILS AND NOTES

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240052001 LL-50' 08/09/21 SW

Sheet 14 of 14

Date: 11/9/2021 Time: 16:23 User: ilaluz Style Table: Langan.stb Layout: LL-501 Document Code: 240052001-0501-LL501-0101