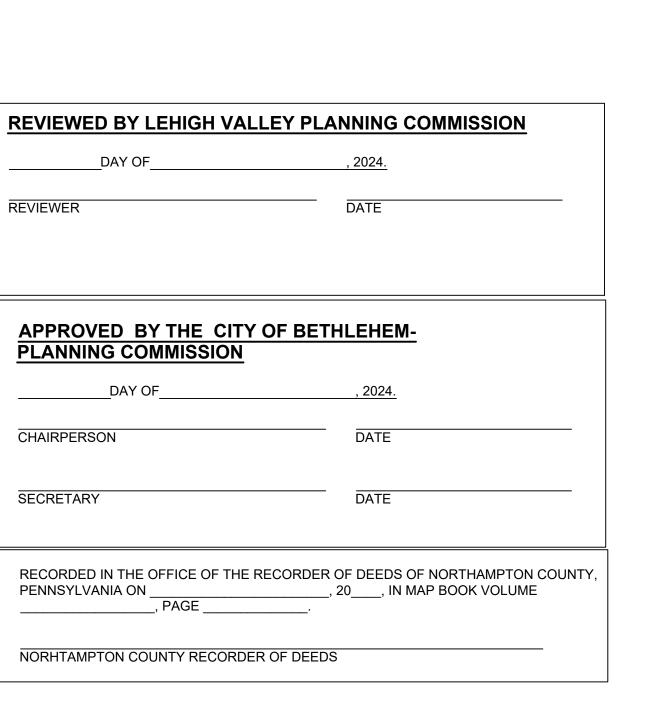
PRELIMINARY/FINAL

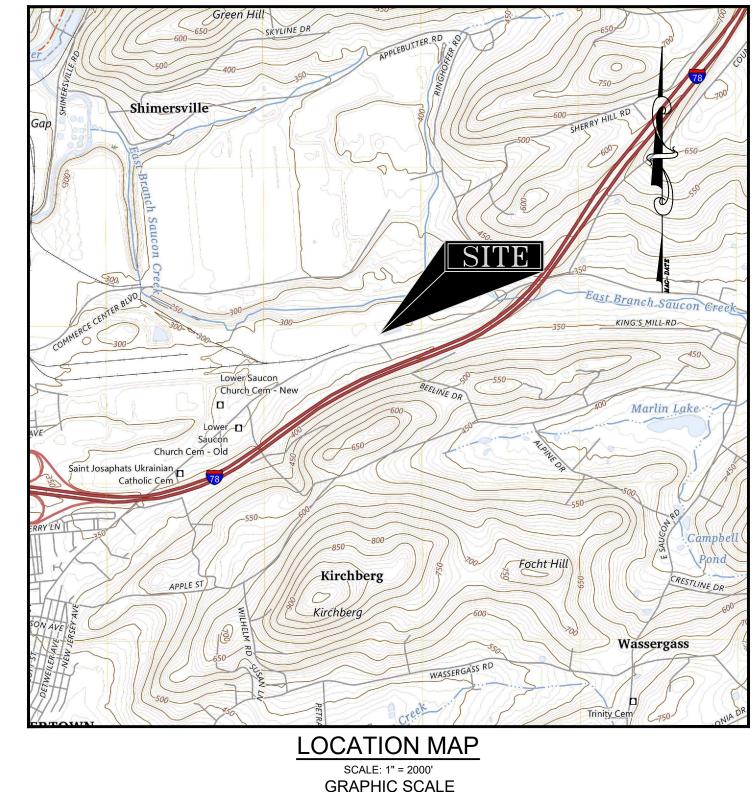
LVIP VII LOTS 53 & 54 LAND DEVELOPMENT

CITY OF BETHLEHEM, NORTHAMPTON COUNTY PENNSYLVANIA

MAY 31, 2024



REVIEWER



		SCALE: 1	" = 2000'			
	GRAPHIC SCALE					
	1 IN = 2,000 FT					
	0'	2000'	4000'	6000'		
CE:	A PORTION	OF THE HELLERTC	WN, PA U.S.G.S. 7	.5 MIN. QUADRANGLE		

PREPARED BY:

reuther-bowen Engineering, Design, Construction Services

2980 LINDEN ST., UNIT C2 PHONE (484)403-1560

BETHLEHEM, PA 18017 FAX (570)496-7021

DRAWING INDEX DRAWING DRAWING NAME NUMBER **COVER SHEET** C0.2 **GENERAL NOTES & LEGEND** C1.1 EXISTING CONDITIONS PLAN SITE LAYOUT PLAN C2.2 TURNING TEMPLATE PLAN C3.1 GRADING & PCSM PLAN PCSM BOUNDARIES C4.1 E&S PLAN UTILITY PLAN C7.1 LANDSCAPE PLAN C7.2 LIGHTING PLAN SITE DETAILS SITE DETAILS D1.2 SITE DETAILS D1.3 **E&S NOTES** D2.2 **E&S NOTES & DETAILS PCSM NOTES** DRAINAGE AREA TO INLETS PRE-DEVELOPMENT DISTURBED ACREAGE POST-DEVELOPMENT DISTURBED ACREAGE

ENGINEER CERTIFICATION

LAND DEVELOPMENT ORDINANCE HAVE BEEN MET.

OWNERSHIP AND DEDICATIONS

MARC BOWEN, PE053608-E

THE ABOVE NAMED CORPORATION IS THE TRUE AND LAWFUL OWNER OF PROPERT

CORPORATION		
BY: CORPORATION OFFICIAL		
ATTEST:		
NOTARIZATION:	COMMONWEALTH OF PENNSYLVANIA	
COUNTY OF	SWORN TO AND SUBSCRIBED TO	
BEFORE ME THIS THE	DAY OF, 20xx.	
NOTARY	/ SEAL	
	MY COMMISSION EXPIR	RΕ:

NOTARY PUBLIC

REQUIREMENTS OF THIS ORDINANCE HAVE BEEN MET.

REGISTERED SURVEYOR

STATEMENT OF INTENT

APPLICANT PROPOSES TO CONSTRUCT A 104,238 SF ADDTION TO AN EXISTING 315,643 SF MANUFACTURING AND WAREHOUSING FACILITY FOR ECOPAX ON A 24.41

APPLICANT: BEACON ROCK REALTY, LLC 3600 GLOVER ROAD EASTON, PA 18040	

		RB PROJ		6637.23
		DATE ISS	OED:	05/31/2024

PER CITY COMMENTS

PER LCCD AND CITY COMMENTS

DESCRIPTION

01/16/2025

11/08/2024

GENERAL NOTES:

1. THE OWNER/APPLICANT FOR THIS PROJECT IS:

BEACON ROCK REALTY, LLC
3600 GLOVER ROAD
EASTON, PA 18040
CONTACT PETER WONG
PHONE NUMBER 484-546-0700

REUTHER+BOWEN

2980 LINDEN ST., UNIT C2

2. THE PROJECT ENGINEER IS:

SITE DATA:

BETHLEHEM, PA 18017
(484) 403–1560
CONTACT LAURA EBERLY
LEBERLY@REUTHERBOWEN.COM

OWNER: BEACON ROCK REALTY LLC
TMP # P7–22–53 0704
WARD 16 BLOCK SM18, SM25
DEED 2016–1 139265
1355 EASTON ROAD
CITY OF BETHLEHEM
NORTHAMPTON COUNTY
24.41 ACRES

4. ZONING DATA:

٠.	2011110 071171.				
	ZONING CLASS	IFICATION: IN (INDUS	TRIAL DISTRICT)		
	ZONING REQUIREMENT	REQUIRED (TWP)	REQUIRED (LVII	<u> </u>	<u>PROVIDED</u>
	MIN. LOT AREA	1 AC			24.41 AC
	MIN. LOT WIDTH	150 FT			1,170.90'
	MIN. FRONT YARD	20'	50'		95'
	MIN. REAR YARD	15'	15'		102.01
	MIN. SIDE 1	15'	15'		53.6'
	PARKING, LOADING AND				
	DRIVEWAY SETBACK	10 FT			10'
	PARKING SETBACK				
	(FRONT/SIDE/REAR)		25'/5'/5'		
	MAX. BUILDING COVERAGE	65%	70%		40%
	MAX. IMPERVIOUS COVERAGE	90%	90%		60%
	MAX. BUILDING HEIGHT	80'	59'		60'
	PARKING SPACE SIZE	9'x18'			9'x18'
	REQUIRED PARKING	97 SPACES			115 SPACES
	5,407,100,110,550,401,000,000,550				
	EXISTING IMPERVIOUS COVER		VELOPMENT	692,291	•
	EXISTING IMPERVIOUS COVER			504,314	
	PROPOSED IMPERVIOUS COVER	\		642,768	JU FI

- 5. REQUIRED PARKING 1 SPACE/10,000 SF PLUS 1 SPACE/1.5 EMPLOYEES
 420,387 SF BUILDINGS 1 SPACE/10,000 SF = 43 SPACES
 80 EMPLOYEES ON MAXIMUM SHIFT 1 SPACE/1.5 EMPLOYEES = 54 SPACES
 TOTAL SPACES REQUIRED = 97
- 6. REQUIRED BICYCLE PARKING 5% OF OFF STREET VEHICLE PARKING REQUIREMENT.

 97 SPACES REQUIRED X 0.05 = 5 BICYCLE SRACES REQUIRED (2)
- 7. THIS PROJECT PROPOSES AN 104,238 SF EXPANSION OF THE EXISTING 315,643 SF

 MANUFACTURING BUILDING ON THE 24.41 ACRE SITE FOR THE USE OF MANUFACTURING WITH ASSOCIATED PARKING AND LOADING AREAS.

 8. THE PURPOSE OF THESE PLANS ARE TO OBTAIN FINAL LAND DEVELOPMENT APPROVAL, AND ARE
- NOT INTENDED FOR CONSTRUCTION.

 9. PLANAMETRIC AND TOPOGRAPHICAL DATA OBTAINED IN PART FROM PRIOR DEVELOPMENT PLANS
- TITLED PRELIMINARY/FINAL LAND DEVELOPMENT PLAN FOR BEACON ROCK REALTY, LLC LVIP VII, LOT 53-54 (2020) AND LAND DEVELOPMENT PLAN LVIP-LOT 53 (2015). ADDITIONAL DATA PROVIDED IN SEPTEMBER 2023 BY DONALD JULIAN, P.L.S OF ESC DESIGN, LOCATED IN MOSCOW, PENNSYLVANIA.
- 10. CONTRACTOR SHALL PROTECT ALL BENCHMARKS (SURVEY CONTROL POINTS, EXISTING STRUCTURES, MONUMENTATION, ETC...) FROM DAMAGE OR DISPLACEMENT. CONTRACTOR TO RESTORE/REPLACE ALL DISTURBED BENCHMARKS.
- 11. THE SURVEYOR HAS MADE NO INVESTIGATIONS OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE OR OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
- 12. THESE PLANS ARE ONE PART OF THE CONSTRUCTION DOCUMENTS. THE CONSTRUCTION DOCUMENTS INCLUDE: CONSTRUCTION PLANS, E&S PLANS, PCSM PLANS, HOP PLANS, NOTES, DETAILS, SECTIONS, PROFILES, NPDES PERMIT DOCUMENTS, E&S NARRATIVES, PCSM NARRATIVES, PA DEP PERMIT DOCUMENTS, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE OF ALL PARTS OF THE CONSTRUCTION DOCUMENTS AND COORDINATE ALL REQUIRED WORK.
- 13. THESE PLANS ARE SUBJECT TO ANY AND ALL RIGHT-OF-WAY, EASEMENTS AND COVENANTS OF RECORD.
- 14. ACCORDING TO FEMA MAP NUMBERS 42095C0335E AND 42095C0327E (FEMA FIRM PANEL 0335E), EFFECTIVE DATE 7/16/2014, THE MAJORITY OF THE SITE IS LOCATED IN ZONE "X" DESIGNATED AS AN AREA OF MINIMAL FLOOD HAZARD. A SMALL PORTION OF THE PROJECT SITE IS LOCATED IN ZONE "A" DESIGNATED AS WITHOUT BASE FLOOD ELEVATION.
- 15. THE PROJECT SITE IS PART OF THE EAST BRANCH SAUCON CREEK WATERSHED WHICH HAS A CURRENT ACT 167 PLAN. THE CHAPTER 93 DESIGNATION IS COLD WATER FISHES MIGRATORY FISH (CWF—MF).
- 16. NO TOPSOIL SHALL BE REMOVED FROM THE SITE UNLESS AUTHORIZED BY THE CITY AND/OR NCCD.
- 17. ALL DISTURBED AREAS OF THE SITE NOT COVERED BY TREES SHALL RECEIVE TOPSOIL AMENDMENTS.
- 18. THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON FIELD LOCATIONS OF OBSERVABLE SURFACE STRUCTURES AND RECORDS BY UTILITY USERS FOLLOWING A CALL TO PENNSYLVANIA ONE CALL SYSTEM, SERIAL #20233132087 LOCATIONS AND DEPTHS ARE APPROXIMATE. REUTHER+BOWEN DOES NOT GUARANTEE THE ACCURACY OF UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS.
- 19. CONTRACTORS ARE REQUIRED TO CONTACT THE PENNSYLVANIA ONE—CALL SYSTEM (1-800) 272-1776 NOT LESS THAN 3 DAYS NOR MORE THAN 10 DAYS PRIOR TO BEGINNING ANY EXCAVATION OF DEMOLITION WORK, AND TO COMPLY WITH ALL OTHER REQUIRED PROCEDURES OF PENNSYLVANIA ACT 38, AS MOST CURRENTLY AMENDED. INFORMATION CONCERNING UTILITIES IS NOT INTENDED FOR CONSTRUCTION PURPOSES.
- 20. THE CONTRACTOR SHALL CONDUCT EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS AS NECESSARY. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES OF UTILITY LINE LOCATIONS ARE DISCOVERED.
- 21. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS WITHOUT FIRST OBTAINING PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE ENGINEER, CONTRACTOR SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE. ALL FINES OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE OWNER AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS TO CORRECT ANY SUCH WORK AND FROM ALL FINES, PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING THEREFROM.
- 22. IN ALL CASES, WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL NOT USE SCALED DIMENSIONS FOR CONSTRUCTION WITHOUT CONFIRMATION BY REUTHER+BOWEN. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS ON THE PROJECT SITE. REUTHER+BOWEN MUST BE NOTIFIED IN WRITING OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS
- 23. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- 24. THE CONTRACTORS WORKING ON THIS PROJECT SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION ACTIVITIES RELATED TO THIS PROJECT ARE PERFORMED IN ACCORDANCE WITH ALL OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) STANDARDS AND REQUIREMENTS.
- 25. PUBLIC AND COMMON USE AREAS, INCLUDING ADA DESIGNATED PARKING AREAS, SIDEWALKS, AND BUILDING ACCESSES SHALL COMPLY WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
- 26. NO EARTH MOVING ACTIVITIES MAY TAKE PLACE ON THIS SITE UNTIL AN EROSION AND SEDIMENTATION POLLUTION CONTROL PLAN HAS BEEN APPROVED BY THE COUNTY CONSERVATION

GRAPHIC SCALE:

DISTRICT AND THE CITY.

- 27. DEBRIS SHALL NOT BE BURIED ON SITE. ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS OR
- 28. CONTRACTOR IS REQUIRED TO SECURE ALL NECESSARY PERMITS AND APPROVALS FOR ALL OFF-SITE MATERIAL SOURCES AND DISPOSAL FACILITIES AT NO ADDITIONAL COSTS TO THE OWNER.
- 29. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE AND COORDINATE ALL INSPECTIONS WITH THE CITY OF BETHLEHEM AND MUNICIPAL AUTHORITY. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 24 HOURS NOTICE AND TO COORDINATE WITH THE CITY OF BETHLEHEM OR CITY OF BETHLEHEM ENGINEER REGARDING ALL MUNICIPAL INSPECTION WORK REQUIRED ON THE PROJECT
- 30. ON-SITE STORAGE OF HAZARDOUS MATERIALS IS NOT PERMITTED DURING CONSTRUCTION. IF ON-SITE STORAGE IS NECESSARY, CONTRACTOR IS REQUIRED TO PREPARE AND SUBMIT A PPC PLAN TO THE COUNTY CONSERVATION DISTRICT.
- 31. CONTRACTOR SHALL SEPARATE STORED DIFFERING MATERIALS WITH DIVIDERS OR STOCKPILE APART TO PREVENT MIXING.
- 32. ALL CONSTRUCTION ACTIVITIES SHALL REMAIN CONFINED WITHIN THE AREA DESIGNATED THE "LIMIT
- OF DISTURBANCE" AS SHOWN ON THE EROSION AND SEDIMENT POLLUTION CONTROL PLANS.

 33. BY APPROVAL OF THIS PLAN, THE CITY OF BETHLEHEM HAS NEITHER CONFIRMED NOR DENIED THE EXISTENCE AND/OR EXTENT OF ANY WETLAND AREAS. ANY ENCROACHMENT INTO WETLAND AREAS SHALL BE SUBJECT TO THE JURISDICTION OF THE ARMY CORP OF ENGINEERS AND THE SAID ENCROACHMENT SHALL CONFORM TO THE RULES AND REGULATIONS OF THE JURISDICTIONAL
- 34. CONTRACTOR SHALL PROTECT TREES, PLANT GROWTH AND FEATURES DESIGNATED TO REMAIN, AS FINAL LANDSCAPING.

AGENCIES. THERE ARE NO KNOWN WETLAND AREAS WITHIN THE DEVELOPMENT AREA.

- 35. CONTRACTOR IS RESPONSIBLE TO KEEP EXISTING ROADWAYS, PARKING AREAS AND LOCAL ROADS FREE OF CONSTRUCTION MATERIALS. ANY DIRT OR DEBRIS TRACKED ONTO SUCH AREAS MUST BE IMMEDIATELY REMOVED.
- 36. CONSTRUCTION VEHICLES, MATERIALS OR ACTIVITIES SHALL NOT INTERFERE WITH PUBLIC ACCESS EXCEPT WHERE SHOWN ON THE PLANS. CONTROL VEHICULAR PARKING TO PREVENT INTERFERENCE WITH PUBLIC TRAFFIC AND PARKING, ACCESS BY EMERGENCY VEHICLES AND OWNER'S OPERATIONS.
- 37. IN THE EVENT THAT ROCK IS ENCOUNTERED WITHIN AN EXCAVATION CONTRACTOR SHALL CONTACT THE OWNER FOR VERIFICATION AND REMOVE ROCK TO 12" BELOW TARGET ELEVATION AND BACKFILL WITH APPROVED MATERIAL.
- 38. ANY ITEMS NOT SPECIFICALLY MENTIONED THAT ARE REQUIRED TO MAKE THE WORK COMPLETE AND OPERATIONAL SHALL BE INCLUDED BY THE CONTRACTOR. THIS INCLUDES WOOD BLOCKING, CAULKING, SEALING AND FLASHING. CONTRACTOR TO FOLLOW MFG'S INSTALLATION PROCEDURES AND STANDARD INDUSTRY PRACTICES.
- 39. CONVEYANCE SYSTEMS SHALL BE OWNED, MANAGED, AND MAINTAINED BY THE PROPERTY OWNER. THE CITY OF BETHLEHEM WILL RETAIN THE RIGHTS TO ENTER AND INSPECT STORMWATER MANAGEMENT FACILITIES TO ENSURE PROPER MAINTENANCE.
- 40. THE CONTRACTOR SHALL REMOVE ANY DEBRIS AND FLUSH OUT ALL EXISTING AND PROPOSED STORM DRAINAGE FACILITIES WITHIN THE PROJECT LIMITS AT THE COMPLETION OF CONSTRUCTION.
- 41. CONTRACTOR SHALL COMPILE AND SUBMIT AS-BUILT SURVEY PLANS FOR ALL STORM AND UTILITY FACILITIES PRIOR TO THE RELEASE OF THE FINANCIAL SECURITIES FOR SUCH FACILITIES.
- 42. THIS PROJECT WILL REQUIRE APPROVAL FROM THE FOLLOWING ENTITIES:

PERMITS REQUIRED:

LAND DEVELOPMENT

ISSUING ENTITY:
NORTHAMPTON COUNTY
CONSERVATION DISTRICT

EROSION AND SEDIMENTATION CONTROL PLAN

PA DEP INDIVIDUAL NPDES PERMIT MODIFICATION

LEHIGH VALLEY PLANNING COMMISSION

- 43. ALL DRIVEWAYS SHALL BE BUILT IN ACCORDANCE THE CITY OF BETHLEHEM AND PENNSYLVANIA DEPARTMENT OF TRANSPORTATION STANDARDS.
- 44. ALL PROPOSED SIGNS, EXCEPT FOR THE REQUIRED TRAFFIC CONTROL/REGULATORY SIGNS MUST COMPLY WITH THE APPLICABLE SECTIONS OF THE ZONING ORDINANCE. SIGN DETAILS SHALL BE SUBMITTED TO THE BOROUGH CONCURRENTLY WITH THE BUILDING PLANS. A SEPARATE SIGN PERMIT APPLICATION SHALL BE SUBMITTED TO THE CITY OF BETHLEHEM AS REQUIRED.
- 45. THE DEVELOPER SHALL ENSURE THAT THE REQUIRED EROSION AND SEDIMENTATION CONTROLS WILL BE IMPLEMENTED IN ACCORDANCE WITH PA CODE, TITLE 25, CHAPTER 102-EROSION AND SEDIMENT CONTROL
- 46. ACCESS TO ANY HIGHWAY UNDER THE JURISDICTION OF THE DEPARTMENT OF TRANSPORTATION SHALL BE ONLY AUTHORIZED BY A HIGHWAY OCCUPANCY PERMIT PURSUANT TO SECTION 420 OF THE ACT OF JUNE 1, 1945 *P.L. 1242, NO. 428), KNOWN AS THE "STATE HIGHWAY LAW".

47. AN ADDITIONAL KNOW BOX FOR THE CITY OF BETHLEHEM FIRE DEPARTMENT ACCESS MUST BE INSTALLED. THE LOCATION OF THE KNOX BOX IS TO BE DETERMINED.

- 48. CHAPTER 33 OF THE IFC "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" WILL BE ENFORCED FOR THE DURATION OF THE CONSTRUCTION PROJECT.
- 49. BY SUBMISSION OF THESE PLANS, THE ENGINEER ON RECORD CERTIFIES THAT THESE PLANS ARE IN COMPLETE CONFORMANCE WITH THE CITY OF BETHLEHEM STORM WATER MANAGEMENT ORDINANCE.
- 50. IN ORDER TO MAINTAIN CONTINUITY BETWEEN PLAN REVISIONS, ANY CHANGES TO A PREVIOUS PLAN SUBMISSION SHALL BE FLAGGED WITH A TRIANGLE. ANY CHANGES NOT FLAGGED MAY BE CONSIDERED NOT APPROVED. FLAGGED CHANGES SHALL BE REFERENCED TO THE APPROPRIATE REVISION DATE IN THE REVISION BLOCK.
- 51. ACCURATE AS—BUILT PLANS SHALL BE KEPT UP TO DATE DURING THE CONSTRUCTION PROCESS. AT THE COMPLETION OF THE PROJECT, RECORD DRAWINGS SHALL BE DEVELOPED FROM THE AS—BUILT PLANS SUBMITTED TO THE CITY ENGINEER'S OFFICE. ALL FINAL DRAWINGS SHALL SHOW NORTH AMERICAN DATUM (NAD) 1983 STATE PLANE COORDINATE IN FEET (PENNSYLVANIA SOUTH FIPS ZONE 3702) AND THE DIGITAL FILE SHALL BE STATE PLANE FEET COORDINATES AS APPLICABLE. THE HARD COPY OF THE RECORD DRAWINGS SHALL BE IN THE FORM OF A MYLAR COPY. THE ENGINEER OF RECORD SHALL CERTIFY (I.E., P.E. STAMPED AND SIGNED) THAT THE RECORD DRAWINGS COMPLY SUBSTANTIALLY WITH THE APPROVED PLAN AND THAT THEY CONFORM TO INDUSTRY STANDARDS. ALL DIGITAL FILES SHALL RESIDE ON PC COMPATIBLE CD ROM CONTAINING THE DIGITAL REPRESENTATION OF THE FINAL PLAN AS PRESENTED ON TWENTY—FOUR (24) INCH BY THIRTY—SIX (36) INCH SHEET. THE DIGITAL MAP SHALL BE AUTOCAD COMPATIBLE. ALL LAYERS INCLUDED IN THE DIGITAL MAPS SHALL BE STANDARDIZED LAYERS PREPARED AND UTILIZED BY THE CITY OF BETHLEHEM TO ENSURE COMPATIBILITY WITH THE CITY'S EXISTING CAD STANDARDS AND AS DESCRIBED IN APPENDIX A OF THE CITY'S SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.
- 52. PRIOR TO ANY WORK WITHIN THE RIGHT-OF-WAY, PERMITS MUST BE OBTAINED FROM THE CITY ENGINEERING OFFICE.

GENERAL SITE NOTES:

- 1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS, SPECIFICATIONS, AND REFERENCED DOCUMENTS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DRAWINGS AND DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS, SPECIFICATIONS AND REFERENCED DOCUMENTS IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
- 2. LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM UTILITY COMPANY RECORDS AND/OR ABOVEGROUND INSPECTION AND MARK OUT OF THE SITE. COMPLETENESS OR ACCURACY OF TYPE, SIZE, DEPTH OR HORIZONTAL AND VERTICAL LOCATION OF UNDERGROUND FACILITIES OR STRUCTURES CANNOT BE GUARANTEED. PURSUANT TO REQUIREMENTS OF THE PENNSYLVANIA LEGISLATIVE ACT NUMBER 287 OF 1974, AS AMENDED BY ACT 121 OF 2008, CONTRACTORS MUST VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES PRIOR TO START OF WORK. PA LAW REQUIRES THREE WORKING DAYS NOTICE FOR CONSTRUCTION PHASE. CALL THE PA ONE CALL SYSTEM AT 1-800-242-1776. SERIAL NO. 20233132087 WAS PLACED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE PA ONE CALL SYSTEM BEFORE BEGINNING ANY EXCAVATION WORK.
- 3. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS BY ALL OF THE PERMITTING AUTHORITIES.
- 4. THIS PLAN SHALL NOT BE USED FOR BUILDING STAKEOUT PURPOSES. PROPOSED BUILDING LOCATION AS DEPICTED IS WITHIN ACCEPTABLE TOLERANCES FOR SITE WORK ONLY. PLEASE REFER TO ARCHITECTURAL/STRUCTURAL PLANS FOR EXACT BUILDING PLACEMENT.
- 5. THE BUILDING FOOTPRINTS DEPICTED HEREON HAVE BEEN TRANSPOSED FROM ARCHITECTURAL PLANS. FINAL BUILDING DIMENSIONS MAY VARY BUT SHALL ULTIMATELY CONFORM TO ALL APPLICABLE ZONING SETBACKS, IMPERVIOUS SURFACE COVERAGE RATIOS, ETC. UNLESS OTHERWISE NOTED. FINAL BUILDING FOOTPRINTS WHICH SUBSTANTIALLY VARY FROM THE FOOTPRINTS HEREON SHALL BE SUBMITTED TO THE MUNICIPAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO REQUESTING A BUILDING PERMIT.
- 6. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH PENNDOT SPECIFICATION "PUBLICATION FORM 408", LATEST EDITION AND WITH THE CITY OF BETHLEHEM STANDARDS WHERE APPLICABLE. ALL IMPROVEMENTS WITHIN THE PUBLIC RIGHT OF WAY MUST COMPLY WITH CITY OF BETHLEHEM STANDARDS AND SPECIFICATIONS.
- 7. ALL CITY OF BETHLEHEM PERMITS MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.
- 8. CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS AND COMPLETE ALL WORK INDICATED OR IMPLIED ON THE PROJECT PLANS AND/OR SPECIFICATIONS THAT ARE NOT EXISTING ON THE PROJECT SITE AND THAT ARE NOT SPECIFICALLY NOTED AS "FUTURE" OR "NOT IN CONTRACT (NIC)", "BY OTHERS", OR "BY OTHER CONTRACTORS".
- 9. THESE PLANS ARE BASED ON INFORMATION PROVIDED TO OUR OFFICE AT THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ENGINEER IN WRITING IF ACTUAL SITE CONDITIONS DIFFER FROM THAT SHOWN ON THE PLAN, OR IF THE PROPOSED WORK WOULD BE INHIBITED BY ANY OTHER EXISTING SITE FEATURES.
- 10. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL/BUILDING PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATION, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY LOCATIONS.
- 11. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL MUNICIPAL, COUNTY, STATE AND FEDERAL LAWS AND APPLICABLE CODES. CONTRACTOR SHALL PROPERLY REMOVE AND DISPOSE OF HAZARDOUS/UNSUITABLE MATERIAL OFF—SITE IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES AND LAWS.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION AND SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS, AS WELL AS ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES, AS FIELD CONDITIONS DICTATE.
- 13. THE CONTRACTOR IS TO EXERCISE CARE WHEN PERFORMING WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES AND FACILITIES THAT ARE TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING THE APPROPRIATE MEASURES AS NECESSARY TO ENSURE THE STRUCTURAL STABILITY OF SIDEWALKS AND PAVEMENT TO REMAIN, AND PROVIDE A SAFE WORK
- 14. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO EXISTING ITEMS DURING CONSTRUCTION SUCH AS BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, SIDEWALK, ETC AS A RESULT OF THEIR WORK. REPAIR SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE TO PROVIDE DOCUMENTATION OF THE CONDITION OF EXISTING ITEMS TO THE OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO CONSTRUCTION START.
- 15. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS AS INDICATED IN SPECIFICATIONS AND REFERENCE DOCUMENTS UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT.
- 16. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS/MEANS FOR COMPLETION OF THE WORK DEPICTED ON THESE PLANS NOR ANY CONFLICTS/SCOPE REVISIONS WHICH RESULT FORM THE SAME. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND NOTIFICATION OF OWNER AND ENGINEER OF RECORD IN WRITING WHEN A CONFLICT IS IDENTIFIED.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF TRAFFIC AND JOB SAFETY.
- 18. ALL UTILITIES DAMAGED OR DESTROYED SHALL BE BROUGHT TO THE ATTENTION OF THE SPECIFIC UTILITY. ALL COST INCURRED TO FIX OR REPLACE THE UTILITY SHALL BE BORNE BY
- 19. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR IN THE FIELD.
- 20. THE CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS AT ALL TIMES TO THE JOB SITE.

 21. THE PLAN IS SUBJECT TO ANY AND ALL RIGHTS—OF—WAY, EASEMENTS AND COVENANTS OF
- 22. IN ALL CASES, WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL NOT USE SCALED DIMENSIONS FOR CONSTRUCTION WITHOUT CONFIRMATION BY DESIGN ENGINEER. THE DESIGN ENGINEER MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS.
- 23. ANY EXCESS EXCAVATION AT THE END OF THE JOB SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN APPROVED MANNER AT NO ADDITIONAL COST TO THE OWNER.

ADJOINING OWNERS				
1	N/F FIEGEL GORDON JOHN JR & MELISSA LEE 2334 EASTON ROAD BETHLEHEM, PA 18015-5921 ZONING: R-40 AREA: 2.91 ACRES PARCEL ID: P7 26 5 0719			
2	N/F BELTZNER DONNA L & EARL W JR 2314 EASTON ROAD BETHLEHEM, PA 18015 ZONING: R-40 AREA: 1.04 ACRES PARCEL ID: P7 26 4 0719			
3	N/F MASON JAMES & JOANN 2310 EASTON ROAD BETHLEHEM, PA 18015 ZONING: R-40 AREA: 0.69 ACRES PARCEL ID: P7 26 3 0719			
4	N/F YELOVICH MICHAEL E 2306 EASTON ROAD BETHLEHEM, PA 18015-5921 ZONING: R-40 AREA: 1.04 ACRES PARCEL ID: P7 26 2 0719			
5	N/F SCHAFFER RICHARD C & BARBARA 2333 BEECHWOOD CT BETHLEHEM, PA 18015 ZONING: R-40 AREA: 1.00 ACRES PARCEL ID: P7 26 1 0719			
6	N/F REICHARD LELAND R & MARY ANN 2332 BEECHWOOD CT BETHLEHEM, PA 18015 ZONING: R-40 AREA: 1.21 ACRES PARCEL ID: P7 25 17B 0719			
7	N/F RODGERS LISA ANN 2294 EASTON ROAD BETHLEHEM, PA 18015-5920 ZONING: R-40 AREA: 0.20 ACRES PARCEL ID: P7 25 16 0719			
8	N/F SNYDER BRADLEY S 2290 EASTON ROAD BETHLEHEM, PA 18015-5920 ZONING: R-40 AREA: 0.35 ACRES PARCEL ID: P7 25 15 0719			
9	N/F BENDUS JOHN & MARY 2284 EASTON ROAD BETHLEHEM, PA 18015 ZONING: R-40 AREA: 1.81 ACRES PARCEL ID: P7 25 14 0719			
10	N/F SWETT FRANK G 2280 EASTON ROAD BETHLEHEM, PA 18015 ZONING: R-40 AREA: 0.94 ACRES PARCEL ID: P7 25 13 0719			
11	N/F FRAZIER DAVID ALLEN 2278 EASTON ROAD BETHLEHEM, PA 18015-5920 ZONING: R-40 AREA: 0.97 ACRES PARCEL ID: P7 25 12 0719			
12	N/F UROGI JOHN & LILLIE H 2276 EASTON ROAD BETHLEHEM, PA 18015-9803 ZONING: R-40 AREA: 0.95 ACRES PARCEL ID: P7 25 11 0719			
13	N/F DELEON JOHN A 2272 EASTON ROAD BETHLEHEM, PA 18015-5920 ZONING: R-40 AREA: 1.03 ACRES PARCEL ID: P7 25 10 0719E			
14	N/F CABRERA ROBERT & LINDA 2270 EASTON ROAD BETHLEHEM, PA 18015 ZONING: R-40 AREA: 1.24 ACRES PARCEL ID: P7 25 9 0719			
15	N/F VANBUSKIRK DENISE M 2268 EASTON ROAD BETHLEHEM, PA 18015-5920 ZONING: R-40 AREA: 0.25 ACRES PARCEL ID: P7 25 8 0719			
16	N/F RLIF EASTON ROAD SPE LLC 1245 EASTON ROAD BETHLEHEM, PA 18015 ZONING: INDUSTRIAL AREA: 44.98 ACRES PARCEL ID: P7 22 52 0704			
17	N/F BETHLEHEM EARTH LP 3700 COMMERCE CENTER BLVD BETHLEHEM, PA 18015 ZONING: INDUSTRIAL AREA: 68.09 ACRES PARCEL ID: P7 15 2C 0704			
18	N/F UGI BETHLEHEM LNG LLC 1475 EASTON ROAD BETHLEHEM, PA 18015 ZONING: INDUSTRIAL AREA: 14.75 PARCEL ID: P7 22 53-55 0704			

ADJOINING OWNERS

GENERAL UTILITIES NOTES:

- 1. UTILITIES ARE ASSUMED TO BE EXTENDED FROM THE EXISTING BUILDINGS. ANY NEW UTILITIES/SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITY/SERVICE PROVIDER INSTALLATION SPECIFICATIONS AND STANDARDS.
- 2. THE LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, REMOVAL OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINT CONFLICTS SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER.
- 3. ALL UTILITY EXTENSIONS FROM THE BUILDING BY OTHER TRADES SHALL BE CONNECTED TO THE CONTINUATION UTILITY LINES ON THE SITE. THE GENERAL CONTRACTOR SHALL MAKE THE CONNECTIONS AT A POINT 5' FROM THE BUILDING WALL WHERE OTHER TRADES HAVE ENDED THEIR WORK. THE CONTRACTOR SHALL COORDINATE SCHEDULING OF THESE CONNECTIONS WITH OTHER TRADES TO ASSURE THE SYSTEM IS COMPLETE WHEN FLOW WILL BEGIN IN THE LINES.
- 4. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- DEFINE AND LOCATE VERTICALLY AND HORIZONTALLY ALL ACTIVE UTILITY AND/OR SERVICE SYSTEMS THAT
 ARE NOT TO REMAIN. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN ALL ACTIVE
 SYSTEMS THAT ARE NOT BEING REMOVED/RELOCATED DURING SITE ACTIVITY.
- 6. EXISTING VALVES, RIMS, GRATES, CLEANOUTS AND LIDS SHALL BE FIELD RESET TO PROPOSED GRADE.
- 8. WHENEVER POSSIBLE, SEWER MAINS SHOULD BE LAID AT LEAST 10' HORIZONTAL FROM ANY EXISTING OR PROPOSED WATER MAIN. SHOULD LOCATION CONDITIONS PREVENT A LATERAL SEPARATION OF 10', A

7. STRUCTURE LOCATION (STATION) AND PIPE LENGTHS ARE MEASURED FROM THE CENTER OF STRUCTURE.

8.1. IT IS LAID IN A SEPARATE TRENCH

(INVERT) OF THE WATER MAIN.

SEWER MAY BE LAID CLOSER THAN 10' TO A WATER MAIN IF:

- 8.2. IT IS LAID IN THE SAME TRENCH WITH THE WATER MAIN LOCATED AT ONE SIDE OF A BENCH OF UNDISTURBED EARTH.8.3. IN EITHER CASE, THE ELEVATION OF THE TOP OF THE SEWER IS AT LEAST 18" BELOW THE BOTTOM
- 9. WHENEVER SEWERS MUST CROSS WATER MAINS OR UTILITIES, A MINIMUM OF 18" OF VERTICAL CLEARANCE MUST BE MAINTAINED, IF NOT ATTAINABLE, A 6" CONCRETE ENCASEMENT MUST BE PROVIDED. DUCTILE IRON PIPE MUST BE UTILIZED AT CROSSINGS WITH CONCRETE ENCASEMENTS. THIS PIPE MUST
- CONSISTENTLY BE DUCTILE IRON PIPE BETWEEN THE TWO MANHOLES OF THE AFFECTED AREA.

 10. THE MINIMUM DISTANCE BETWEEN THE PLACEMENT OF TREES TO LIGHT POLES AND UTILITY SERVICE LINES
- SHALL BE 10 FEET.

 11. ALL SANITARY AND STORM SEWERS WITH A SLOPE LESS THAN 1.0% ARE TO BE CONSTRUCTED USING A
- 1. ALL SANITARY AND STORM SEWERS WITH A SLOPE LESS THAN 1.0% ARE TO BE CONSTRUCTED USING A LASER BEAM DEVICE TO ASSURE PROPER LINE AND GRADE, UNLESS OTHERWISE DIRECTED.
- 12. ALL EXISTING UTILITY LINES TO BE ABANDONED SHALL EITHER BE REMOVED OR FILLED WITH SAND/SMALL
- STONE AND ADEQUATELY CAPPED/PLUGGED.

 13. DEPTHS OF EXISTING UTILITIES IN PORTIONS OF THE SITE ARE UNKNOWN. WHERE EXISTING UTILITIES ARE TO REMAIN AND ARE FOUND TO HAVE INADEQUATE GROUND COVER AFTER FINAL PROPOSED GRADES
- HAVE BEEN ESTABLISHED, THE DESIGN ENGINEER SHALL BE CONTACTED IMMEDIATELY AND PRIOR TO FURTHER CONSTRUCTION ACTIVITIES IN THE AREA OF SAID CONFLICT

 14. THE MAINTENANCE OF STORMWATER FACILITIES NOT DEDICATED TO AND ACCEPTED BY THE CITY, SHALL BE THE OWNER'S RESPONSIBILITY. THE OWNER'S DEED, AND THE DEED TO ANY SUBSEQUENT OWNER,
- 14. THE MAINTENANCE OF STORMWATER FACILITIES NOT DEDICATED TO AND ACCEPTED BY THE CITY, SHAL BE THE OWNER'S RESPONSIBILITY. THE OWNER'S DEED, AND THE DEED TO ANY SUBSEQUENT OWNER, SHALL NOTE THAT THE OWNER SHALL ACCEPT THE MAINTENANCE RESPONSIBILITIES. THE CITY OF BETHLEHEM SHALL BE PERMITTED TO INSPECT THE STORMWATER FACILITIES ON AT LEAST AN ANNUAL SCHEDULE TO ENSURE THAT ANY NECESSARY CORRECTIVE WORK IS PERFORMED IN A TIMELY MANNER.
- 15. THE PROPOSED BUILDING SHALL BE SERVICED BY PUBLIC WATER AND PUBLIC SEWER.

 16. WATER SERVICE PROVIDED BY CITY OF BETHLEHEM.
- 17. ANY CHANGE IN THE LOCATION OF THE FIRE DEPARTMENT CONNECTION MUST BE APPROVED BY THE CITY

 OF BETHLEHEM FIRE DEPARTMENT.

 18. AN APPROVED WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE

MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE.

UTILITY CONTACT LIST COMPANY: COLUMBIA GAS TRANSMISSION ELLWOOD

ADDRESS: 1470 POORHOUSE ROAD

DOWNINGTOWN, PA 19335

CONTACT: TYLER CALDWELL

TYLER_CALDWELL@TCENERGY.COM

610-458-8018

COMPANY: USIC LOCATION SERVICES LLC
ADDRESS: 9045 N RIVER ROAD SUITE 300

INDIANAPOLIS, IN. 46240

CONTACT: USIC DISPATCH

800-778-8914

COMPANY: PPL ELECTRIC UTILITIES CORPORATION ADDRESS: 437 BLUE CHURCH ROAD PAXINOS, PA 17860

PAXINOS, PA 17860
CONTACT: DOUG HAUPT
DLHAUPT@PPLWEB.COM
570-490-0568

COMPANY: CITY OF BETHLEHEM

DEPARTMENT OF WATER AND SEWER

RESOURCES
ADDRESS: 10 E. CHURCH STREET
BETHLEHEM, PA 18018
CONTACT: ROBERT TAYLOR
RTAYLOR@BETHLEHEM-PA.GOV

610-428-8021

COMPANY: SERVICE ELECTRIC CABLE TV INC ADDRESS: 2260 AVENUE A

LVIP 1
BETHLEHEM, PA 18017
CONTACT: RICH PERICH
RPERICH@SECTV.COM

610-625-5850

COMPANY: UGI UTILITIES INC ADDRESS: 2121 CITY LINE ROAD BETHLEHEM, PA 18017

BETHLEHEM, PA 18 CONTACT: TIMOTHY STEWARD TSTEWARD@UGI.COM 610-807-7316



PENNSYLVANIA ONE CALL SYSTEM, INC.
DIAL 8-1-1 BEFORE YOU DIG

PA1System Inc

PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS

NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING

DAYS IN DESIGN STAGE - STOP CALL 1-800-242-1776

STOP CALL 1-600-242-1776

SERIAL # 20233132087

REV. NO. DATE DESCRIPTION BY

1 11/08/24 PER NCCD AND CITY COMMENTS LME

2 01/16/24 PER CITY COMMENTS LME

REVISIONS

BEACON ROCK REALTY,

3600 GLOVER ROAD EASTON, PA 18040 PROJECT TITLE

LVIP VII LOTS 53 & 54
CITY OF BETHLEHEM, NORTHAMPTON COUNTY
PENNSYLVANIA

reuther-bowenEngineering, Design, Construction Services

EPARED BY

2980 LINDEN ST., UNIT C2 BETHLEHEM, PA 18017
PHONE (484)403-1560 FAX (570)496-7021

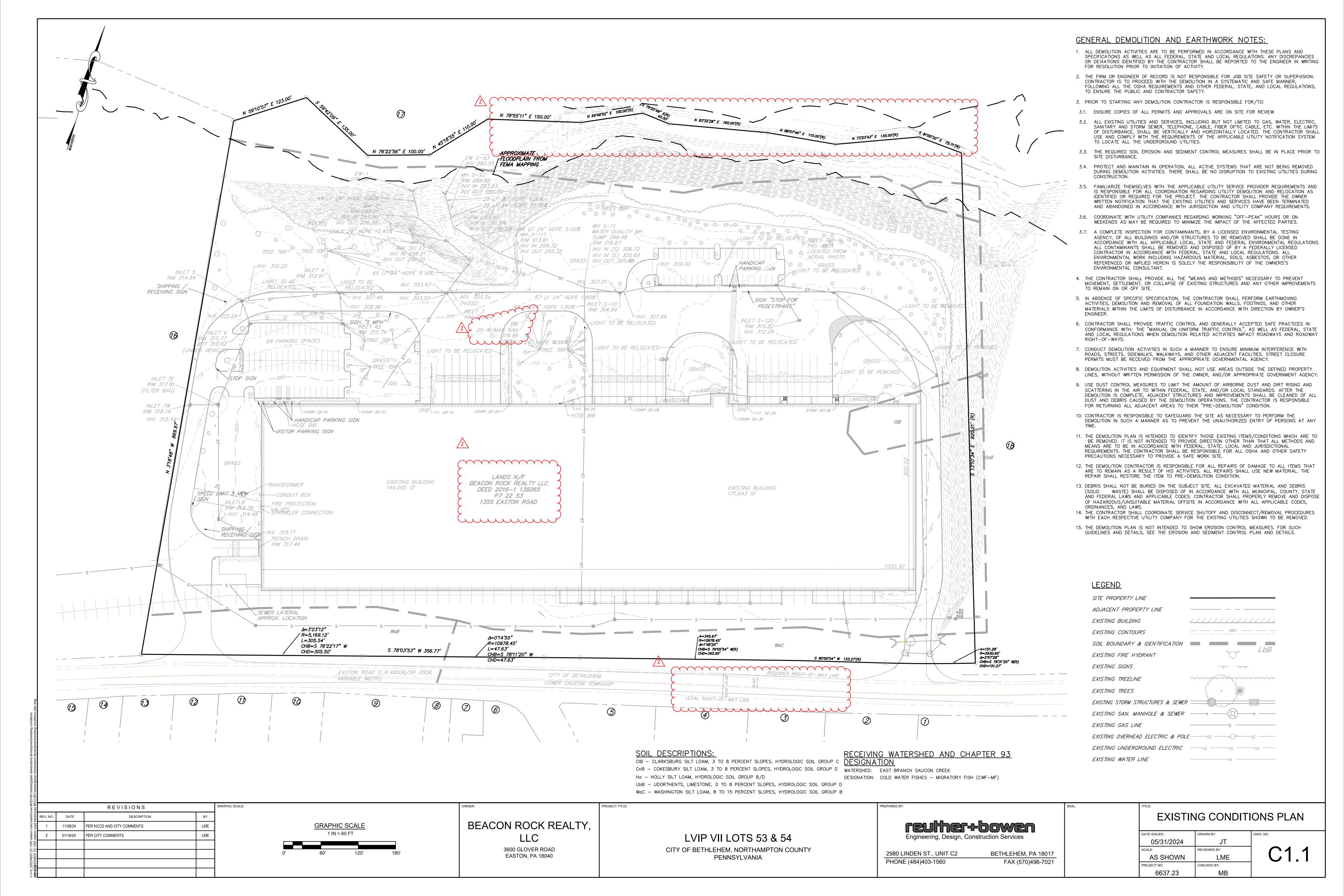
GENERAL NOTES & LEGEND

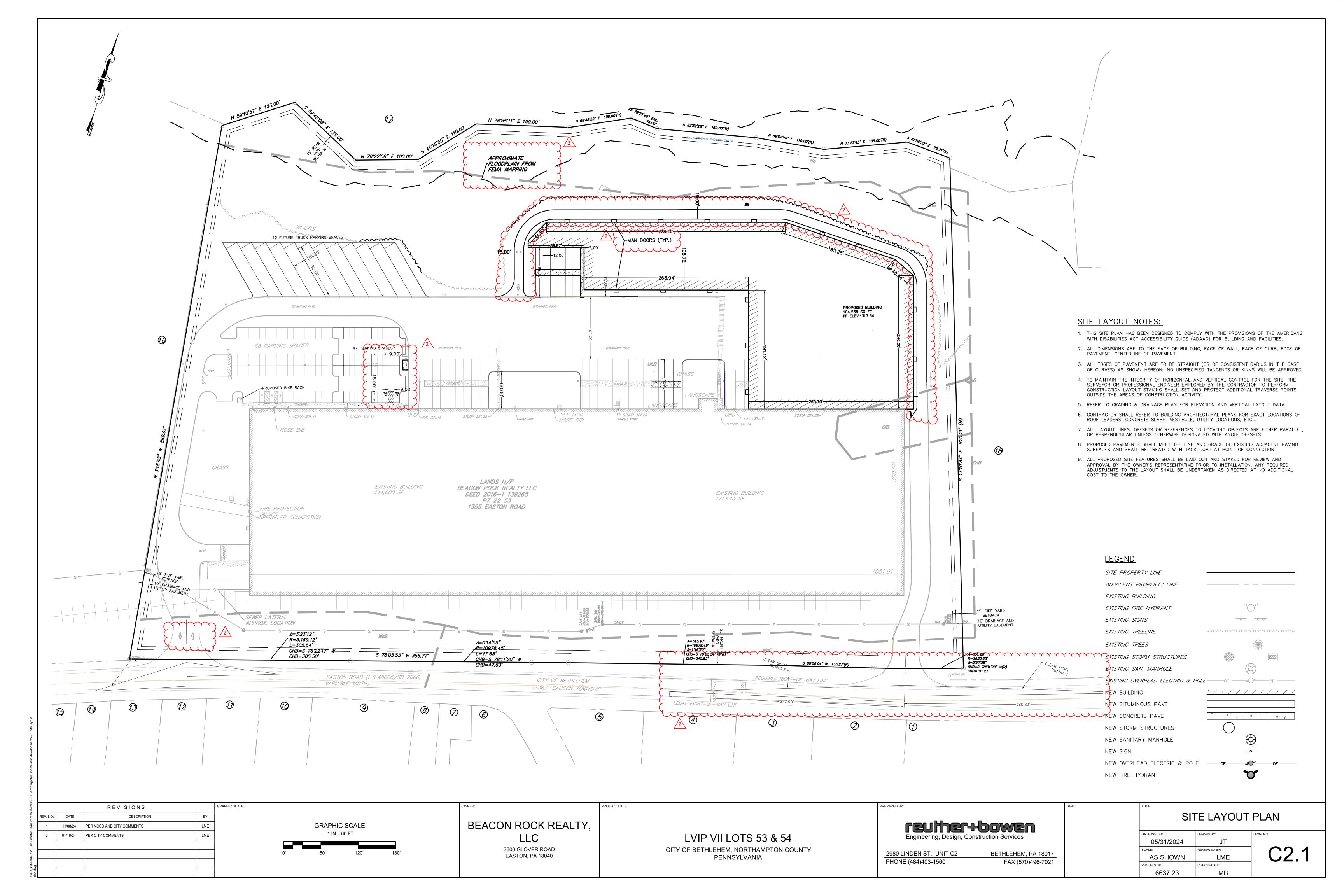
05/31/2024 JT

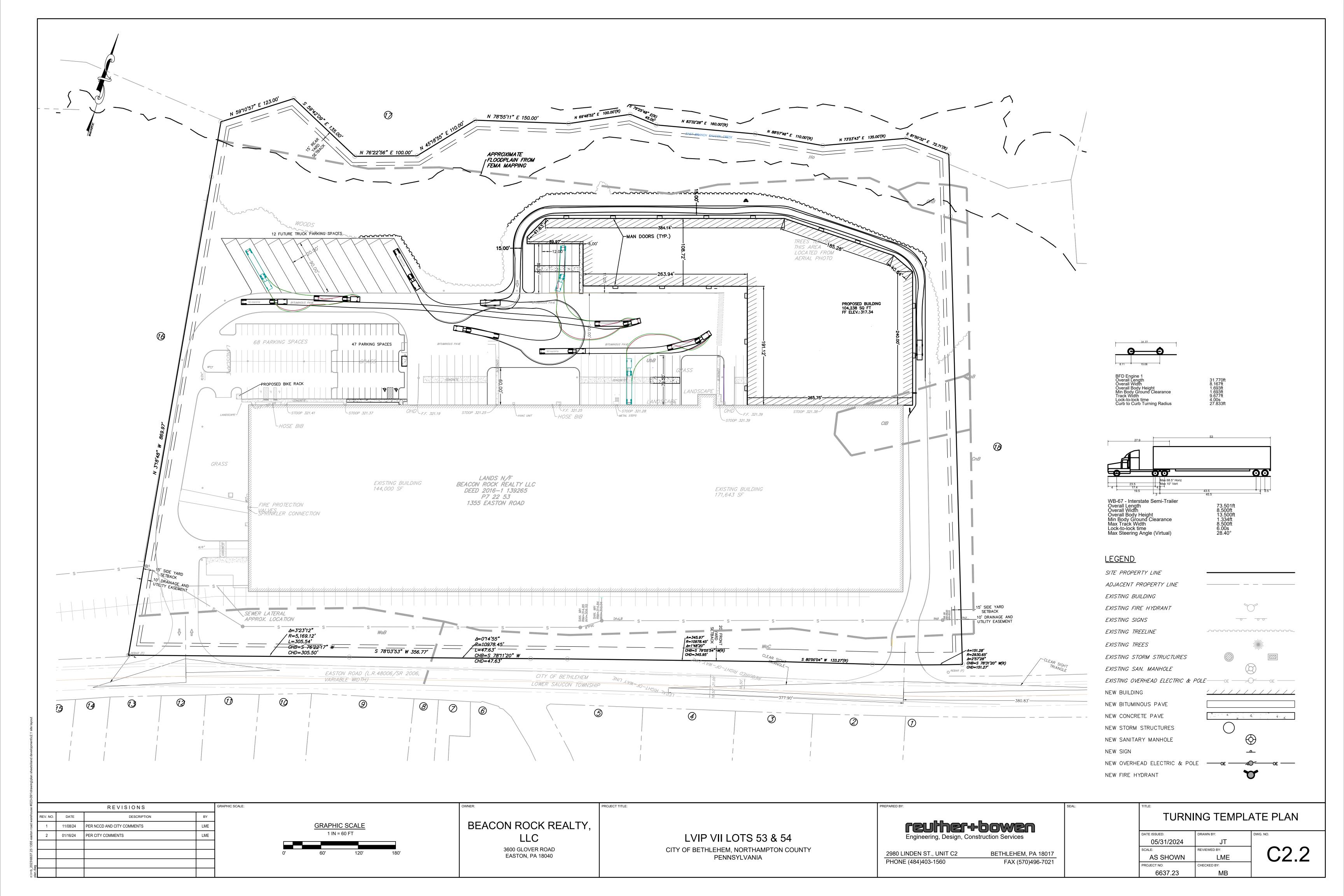
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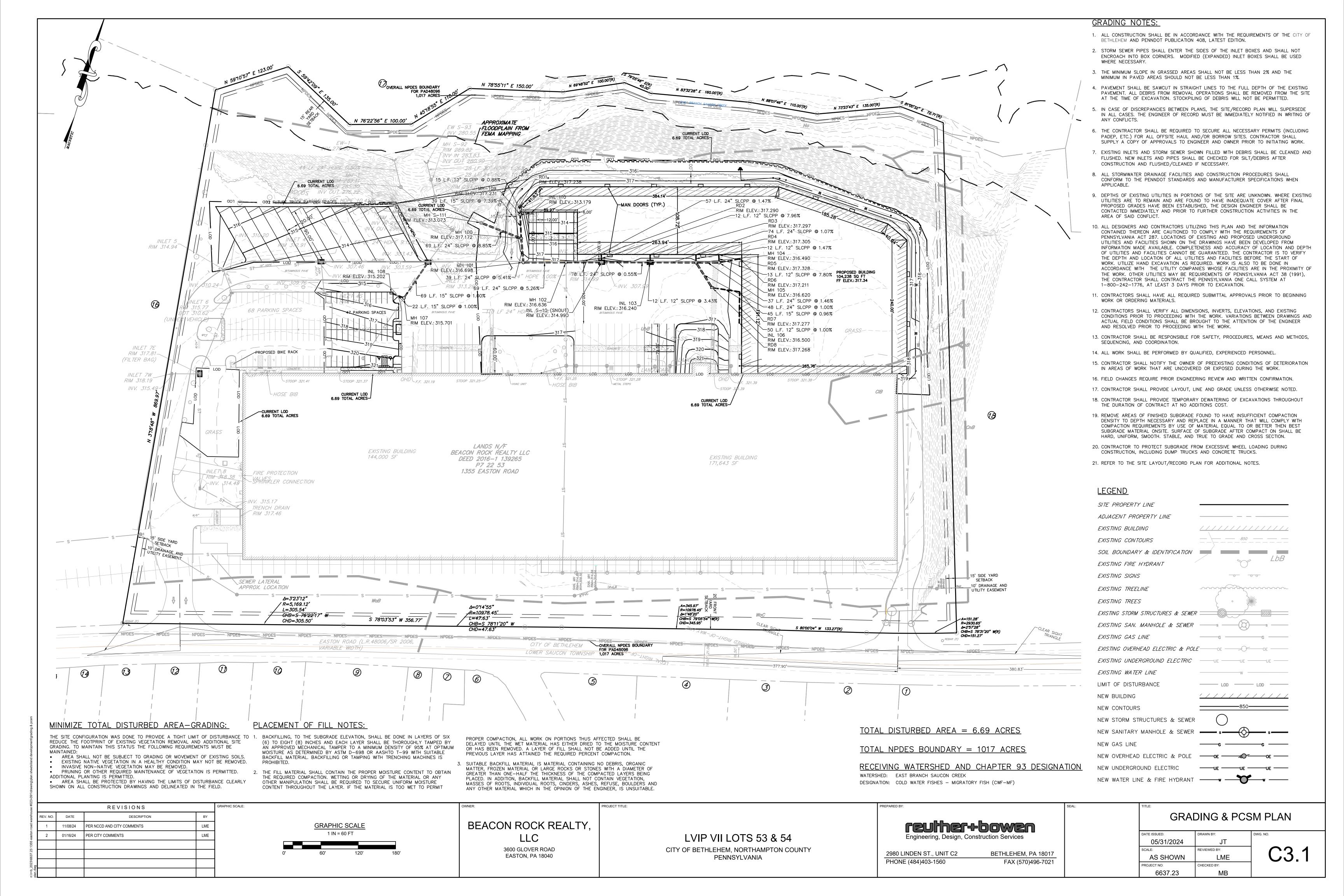
AS SHOWN LME

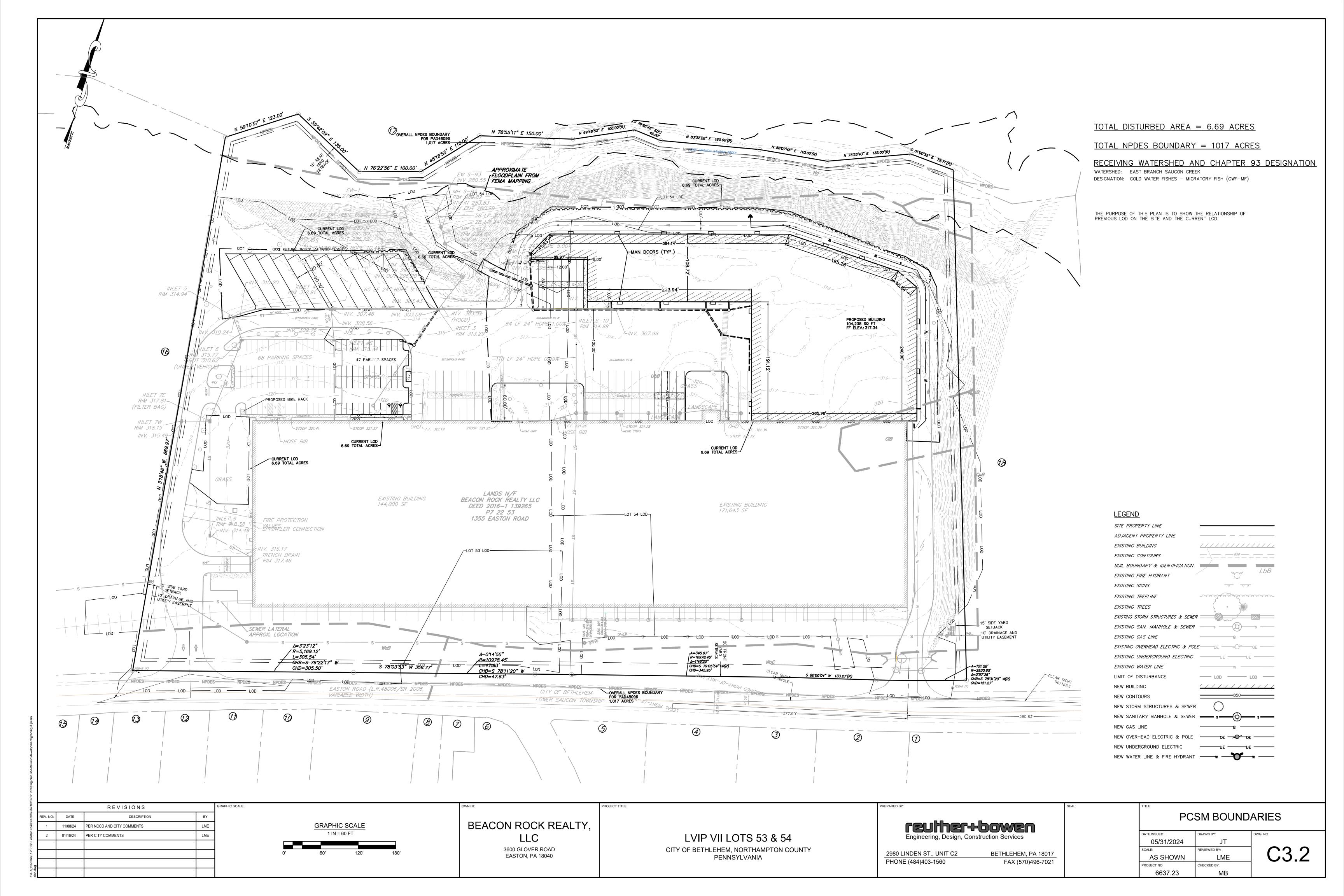
PROJECT NO: CHECKED BY:
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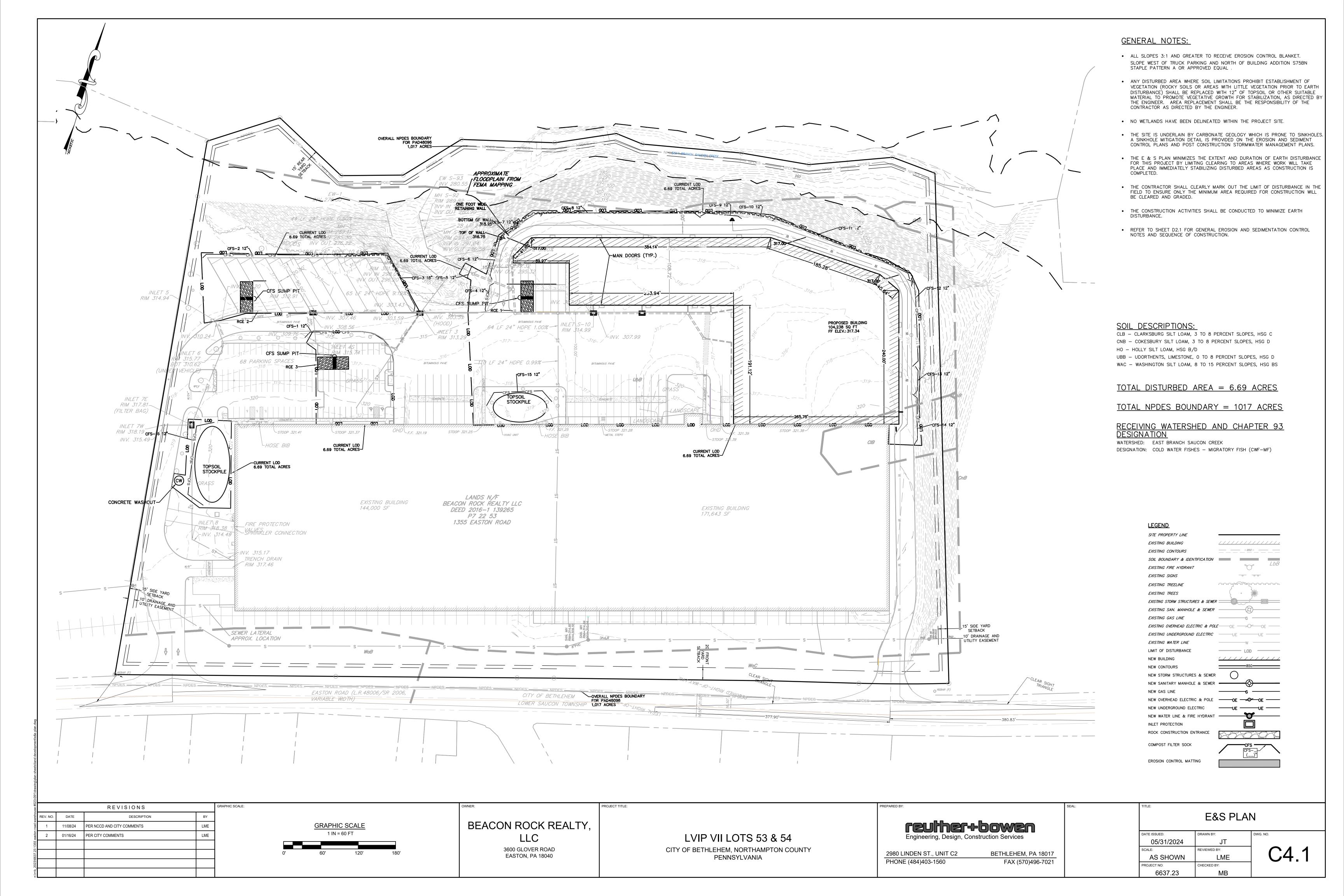


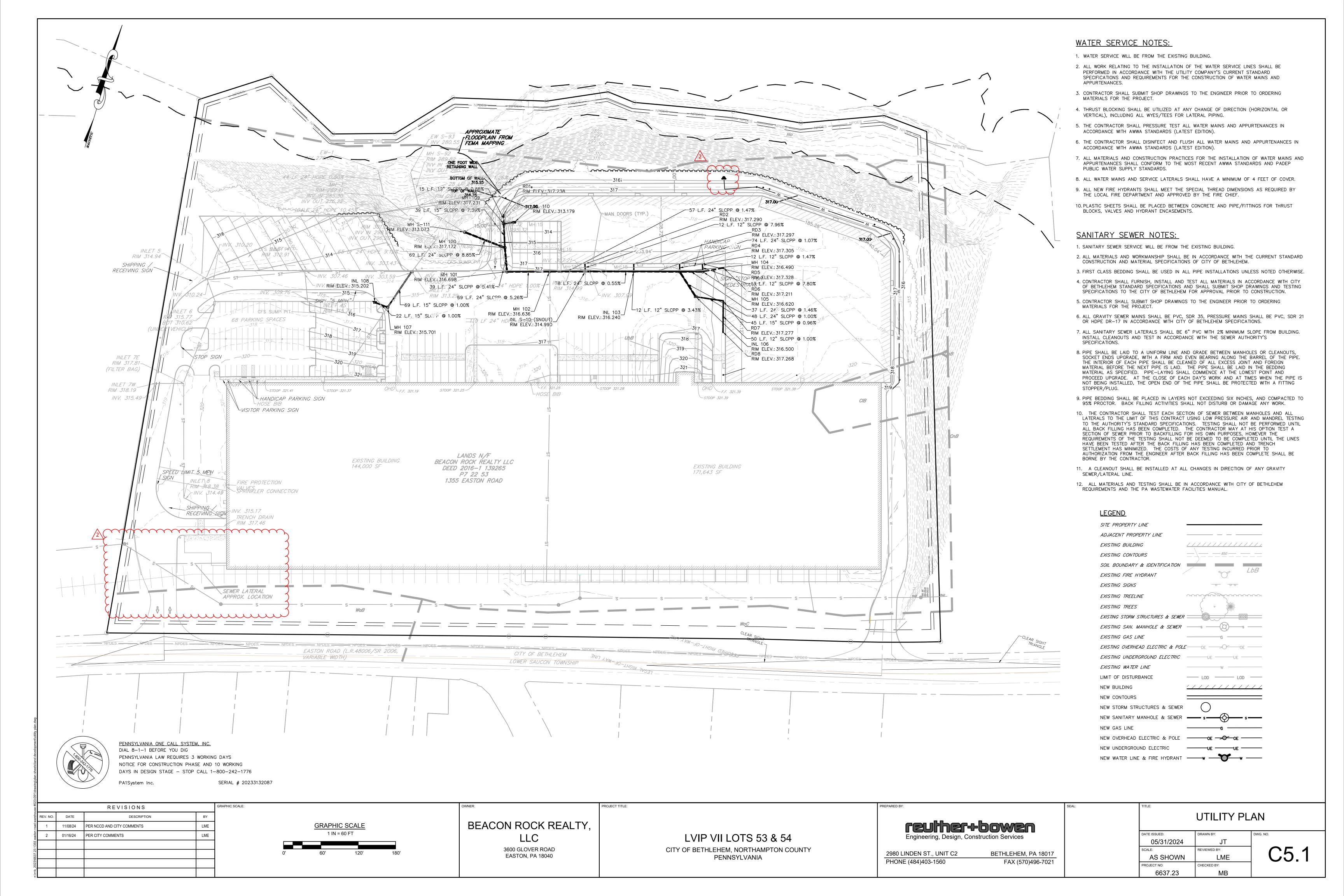


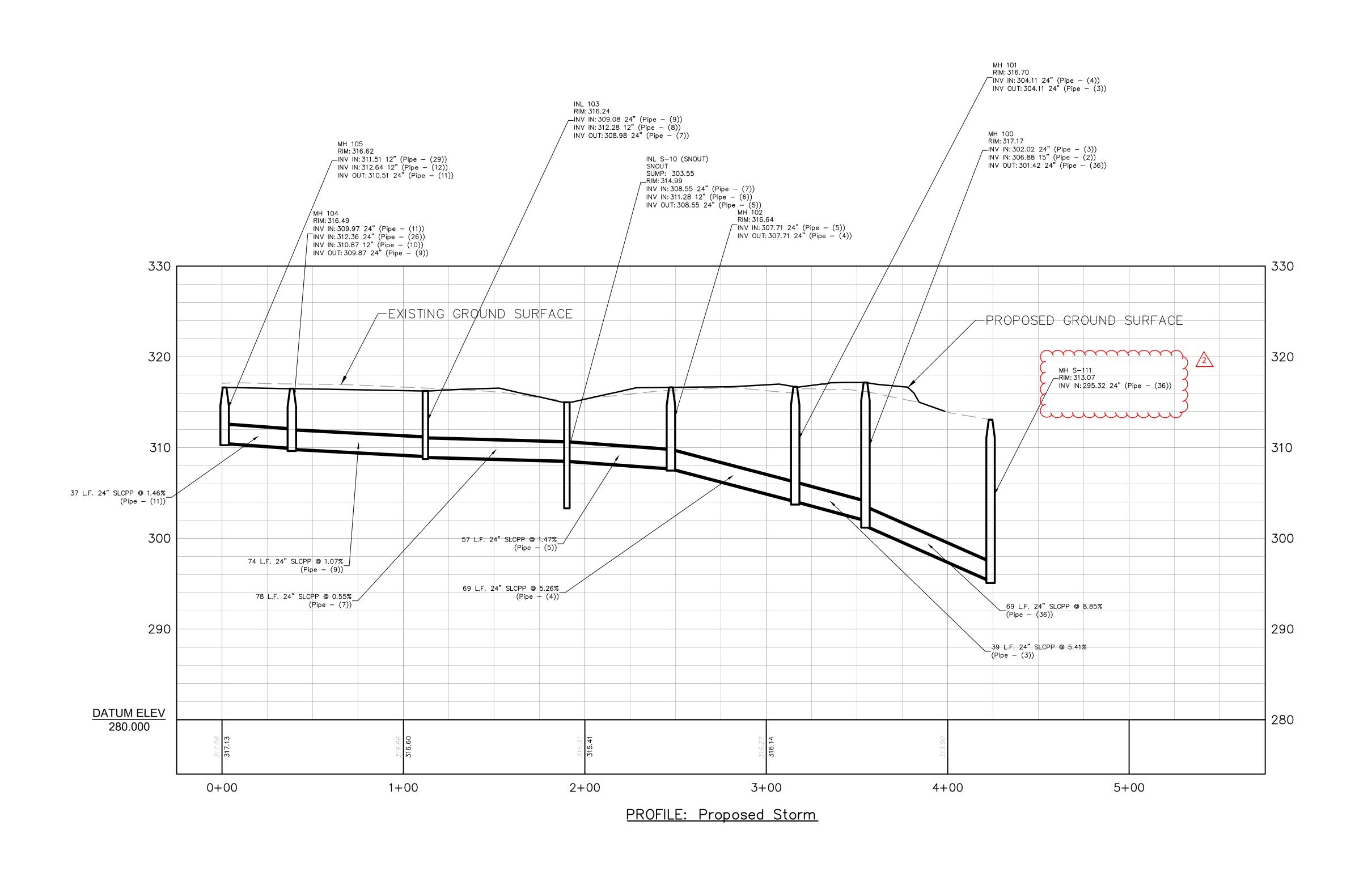


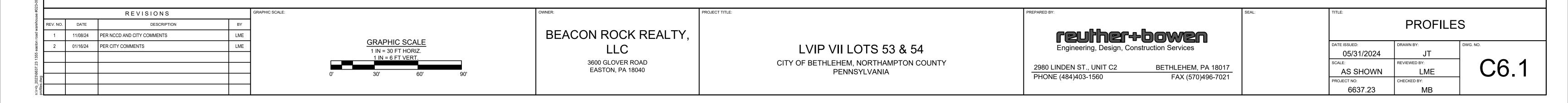


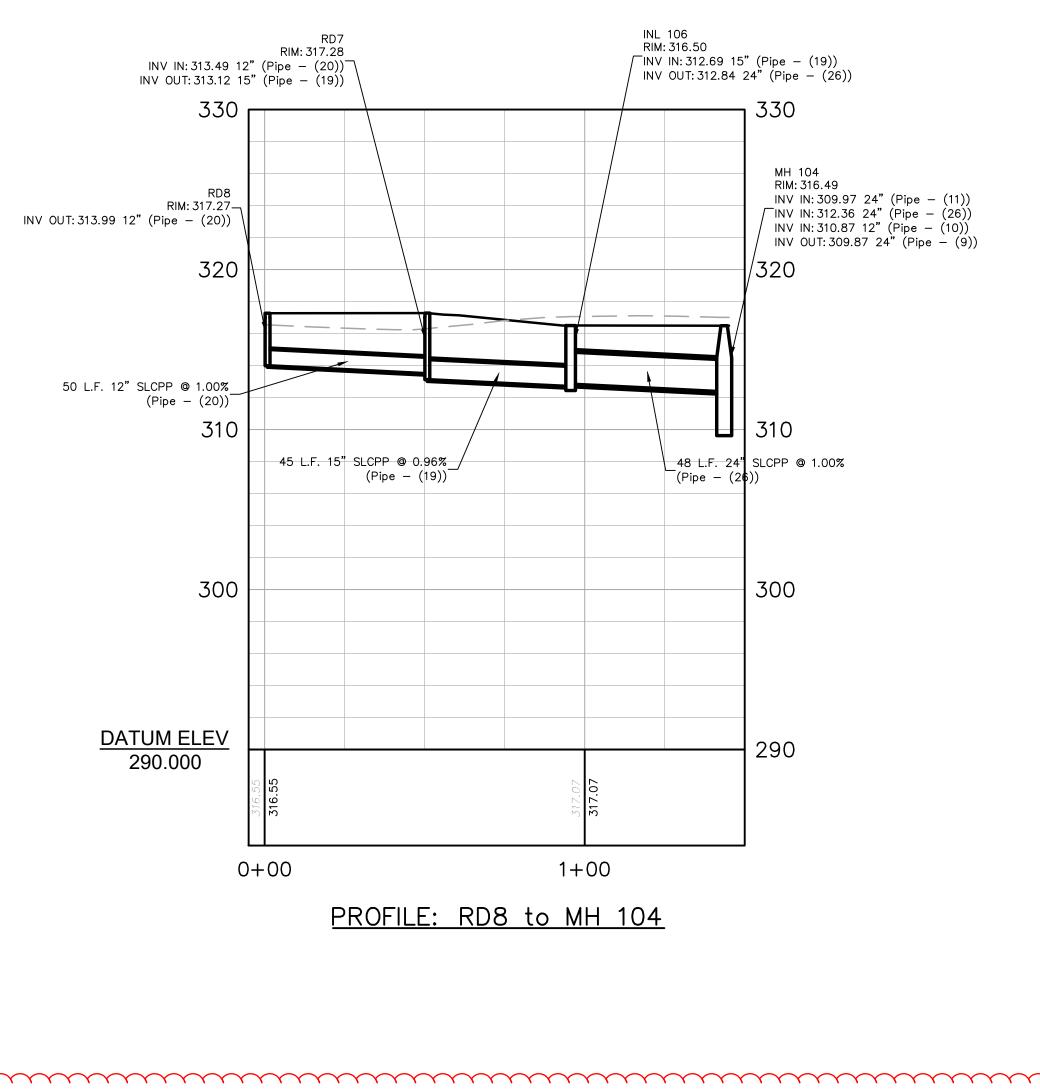


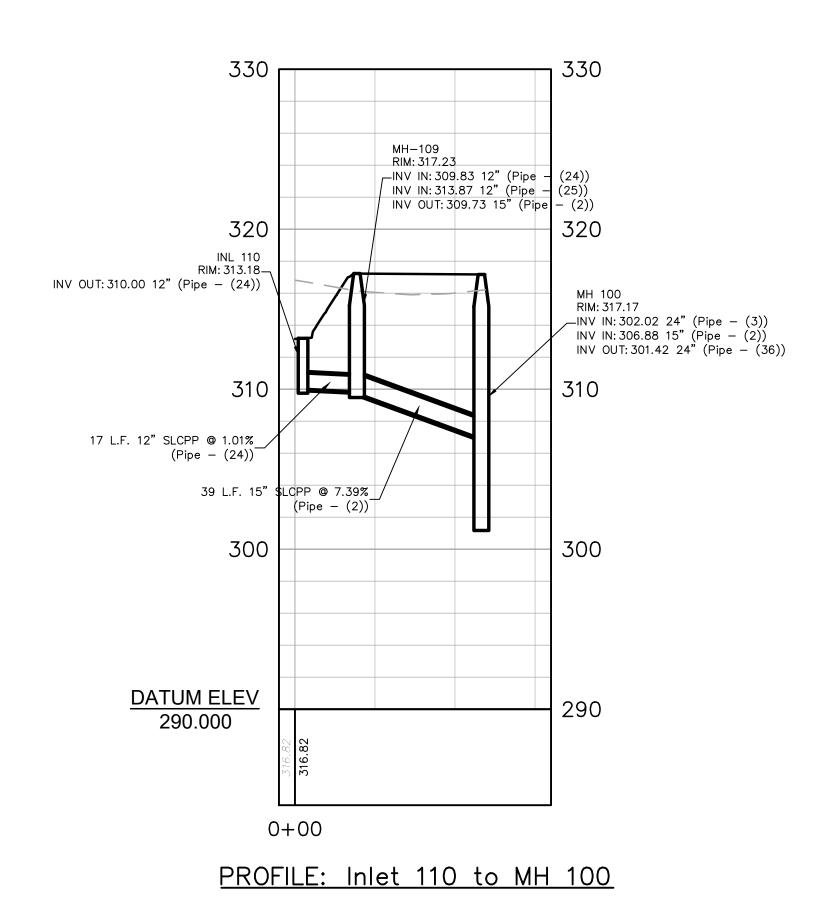


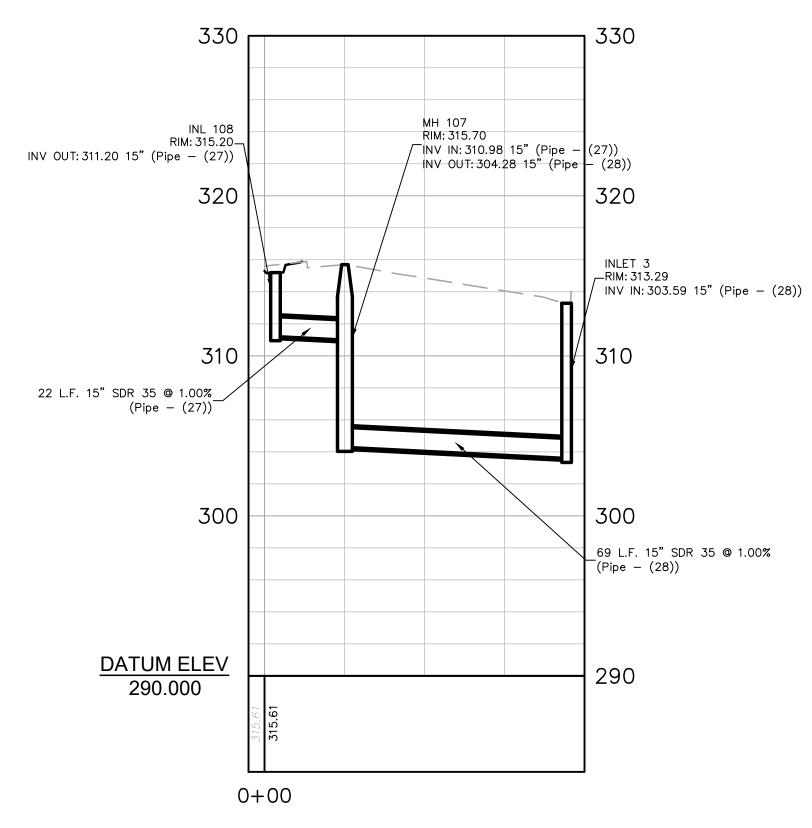






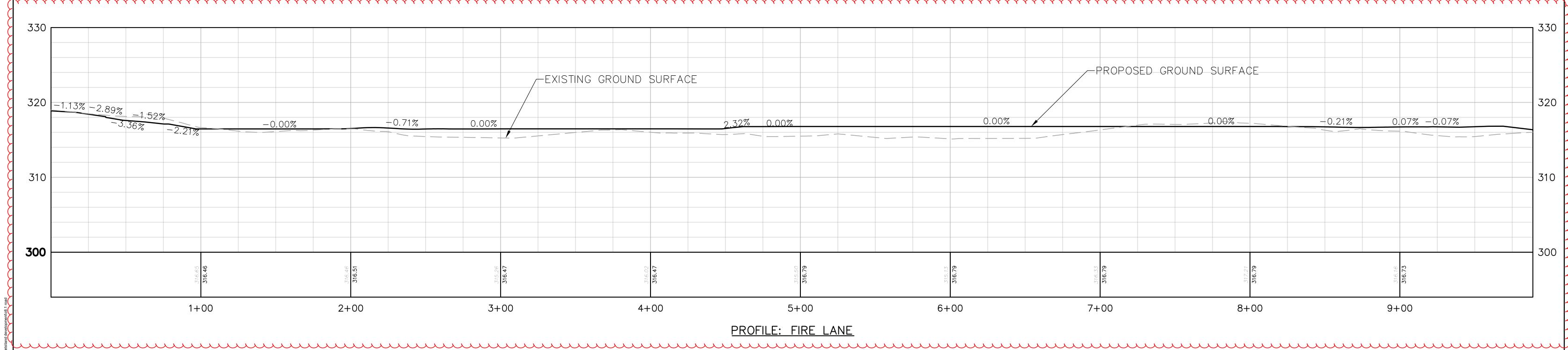




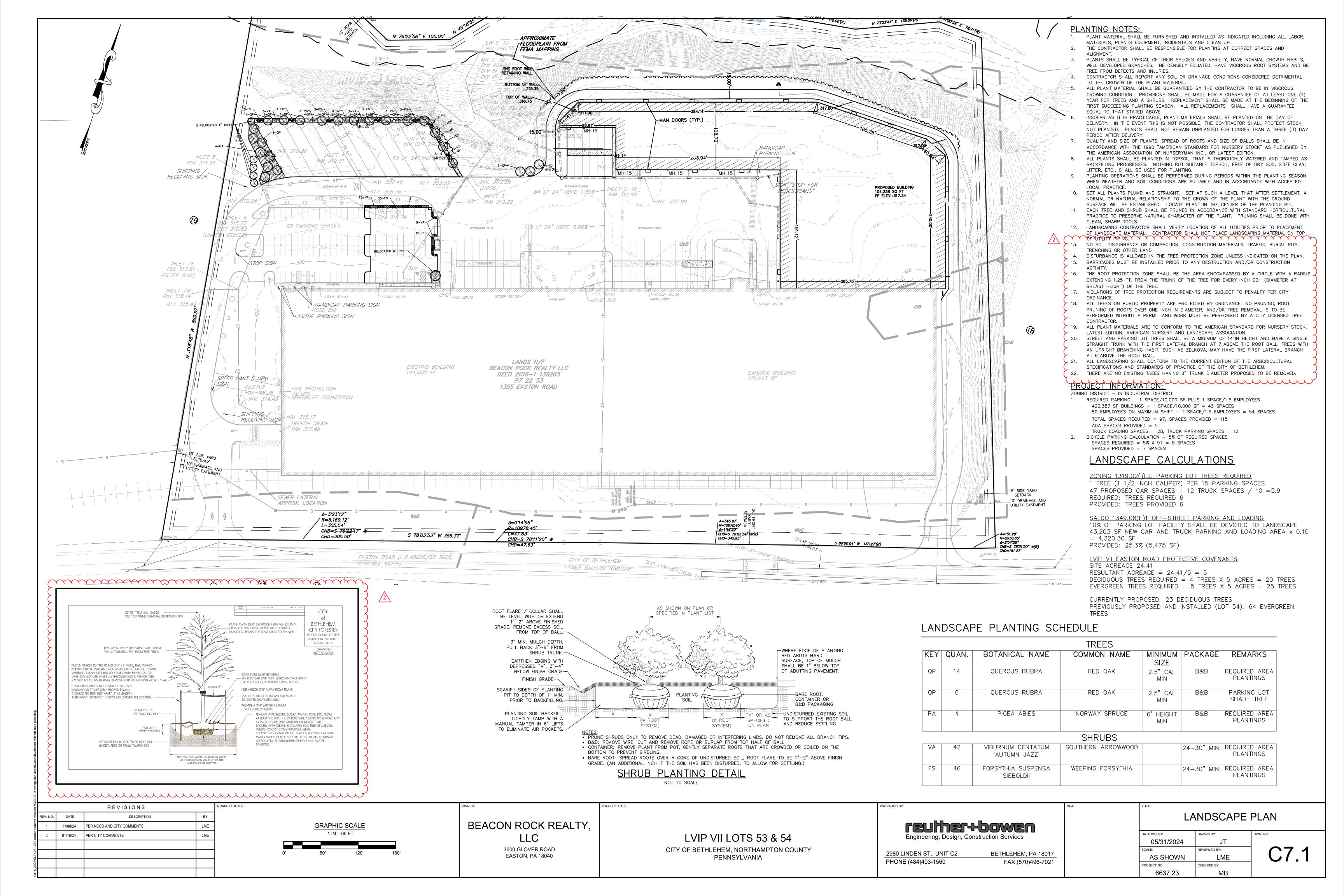


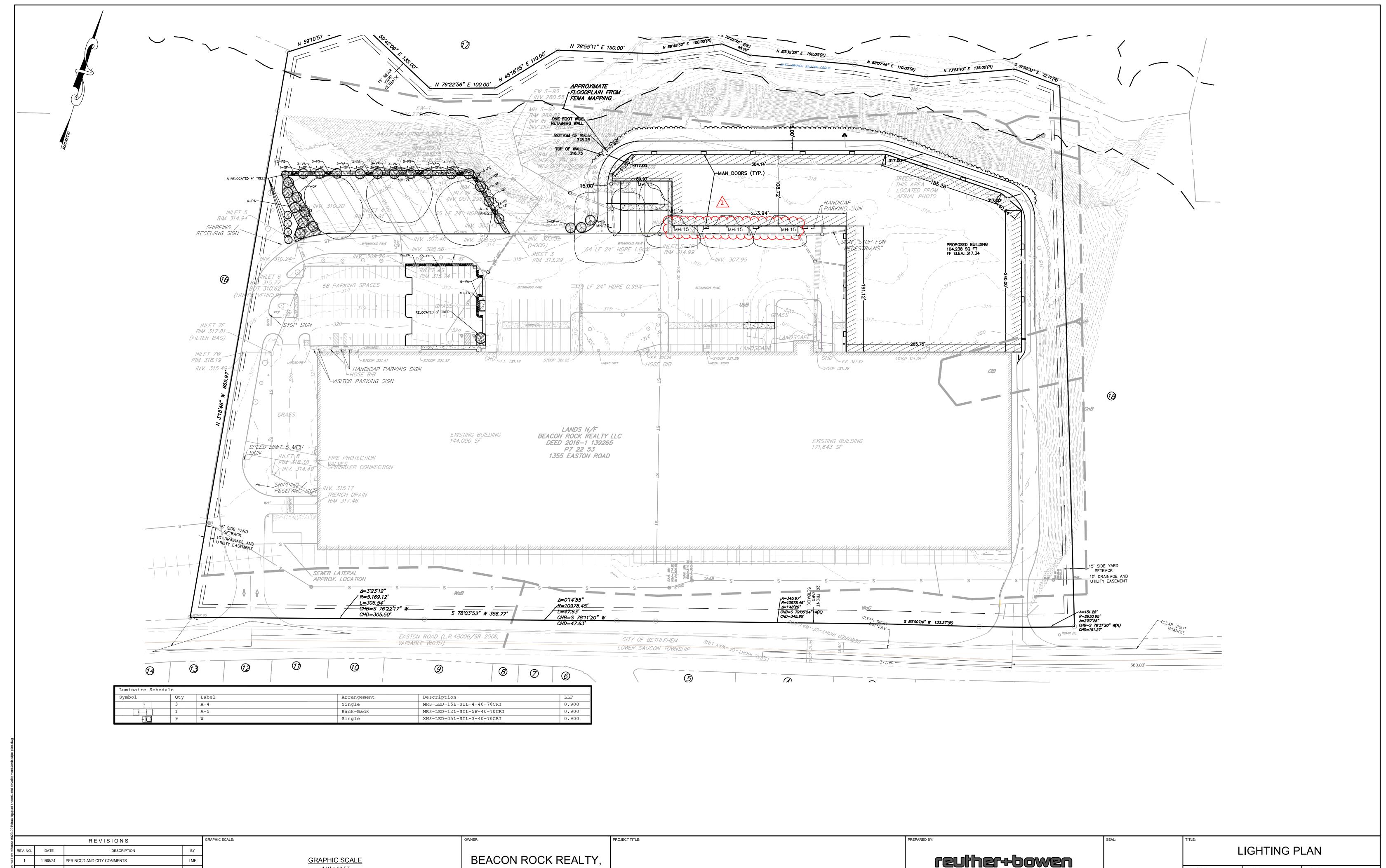
PROFILE: Inlet 108 to Inlet 3

2



REVISIONS	GRAPHIC SCALE:		OWNER:	PROJECT TITLE:	PREPARED BY: SEAL:	TITLE:	
DATE DESCRIPTION	ВУ						PROFILES
11/08/24 PER NCCD AND CITY COMMENTS	LME		BEACON ROCK REALTY		reuther+bowen		11(0) 1220
01/16/24 PER CITY COMMENTS	LME	GRAPHIC SCALE 1 IN = 30 FT HORIZ. 1 IN = 6 FT VERT.	LLC	LVIP VII LOTS 53 & 54	Engineering, Design, Construction Services	DATE ISSUED:	DRAWN BY: DWG. NO.
		1 IN = 6 FT VERT.	3600 GLOVER ROAD			05/31/2024	J I REVIEWED BY:
	0'	30' 60' 90'	EASTON, PA 18040	CITY OF BETHLEHEM, NORTHAMPTON COUNTY PENNSYLVANIA	2980 LINDEN ST., UNIT C2 BETHLEHEM, PA 18017	AS SHOWN	
		30 00 90			PHONE (484)403-1560 FAX (570)496-7021	PROJECT NO:	CHECKED BY:
						6637.23	l MB l





2 01/16/24 PER CITY COMMENTS

LLC 3600 GLOVER ROAD EASTON, PA 18040

LVIP VII LOTS 53 & 54 CITY OF BETHLEHEM, NORTHAMPTON COUNTY PENNSYLVANIA Engineering, Design, Construction Services

2980 LINDEN ST., UNIT C2

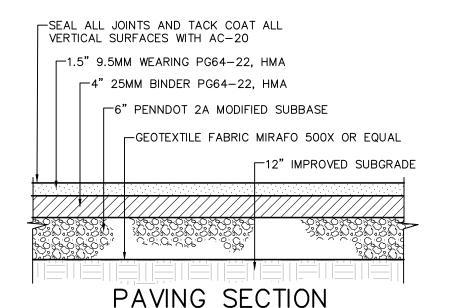
PHONE (484)403-1560

BETHLEHEM, PA 18017

FAX (570)496-7021

DATE ISSUED: 05/31/2024 JT REVIEWED BY: AS SHOWN

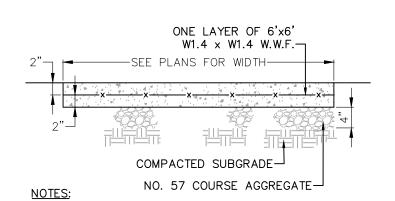
LME ROJECT NO: CHECKED BY: 6637.23



PAVING SECTION

NOT TO SCALE

NOTE: PAVING SECTION TO MATCH EXISTING PAVING CROSS SECTION



1. SIDEWALK NOTES NEW CONCRETE WALK TO HAVE 2 1/2" TROWELED EDGES, SCORE JOINTS APPROXIMATELY 5' O.C.

2. PROVIDE A 1/2" THICK PREFORMED EXPANSION JOINT W\ 1/2" DEEP SEALANT APPROXIMATELY 50' O.C.

3. OR WHERE WALK CHANGES OR ABUTS A STRUCTURE

FLOAT WALKS AND PROVIDE A LIGHT BROOM FINISH CONCRETE SIDEWALK DETAIL NOT TO SCALE

PERMANENT SEED AND SOIL SUPPLEMENTS ¬8" MIN. CLEAN TOPSOIL -4" MIN SOIL/CLAY CAP -COMPACTED SUBGRADE NOT TO SCALE

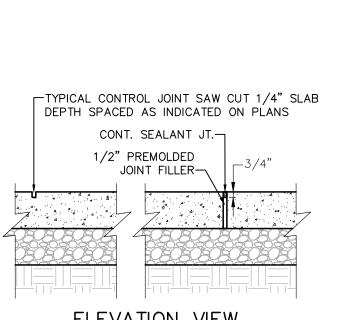
ELEVATION VIEW

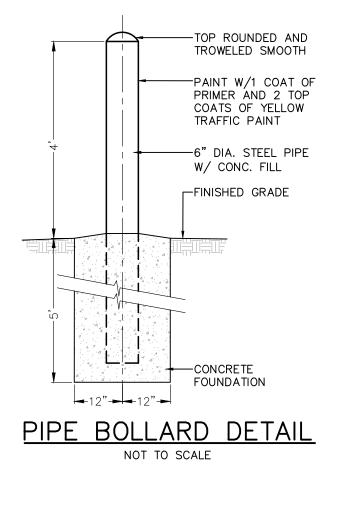
PLAN VIEW

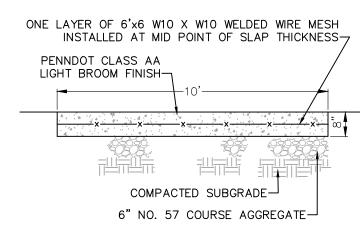
EXPANSION JOINTS SHALL BE PLACED EVERY 200 S.F. OF CONCRETE AREA OR EVERY 25 FT OF WALK

CONTRACTOR TO CONFORM WITH LATEST PENNDOT 408 SPECIFICATIONS

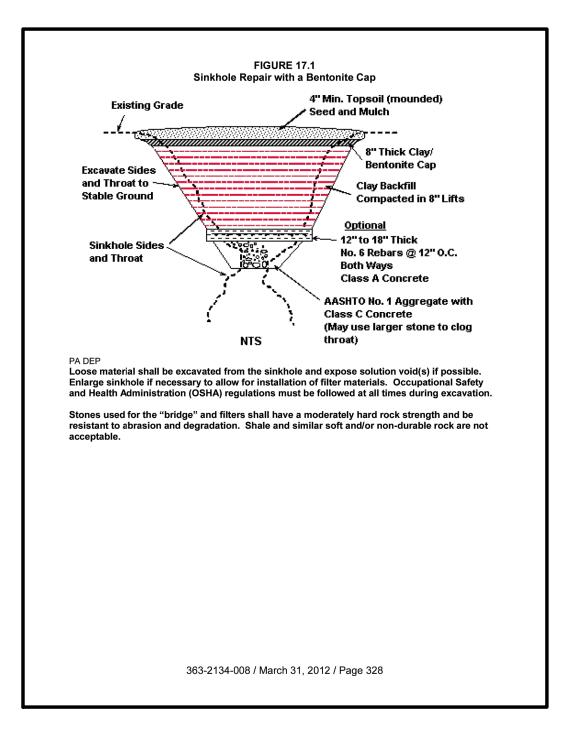
TYPICAL CONCRETE CONTROL & EXPANSION JOINT NOT TO SCALE

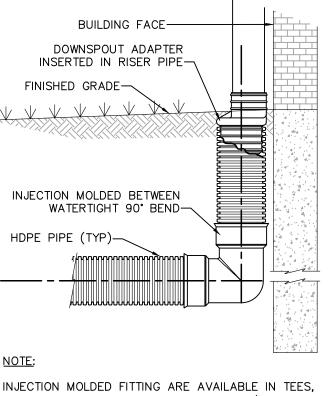






CONCRETE LOADING PAD DETAIL NOT TO SCALE



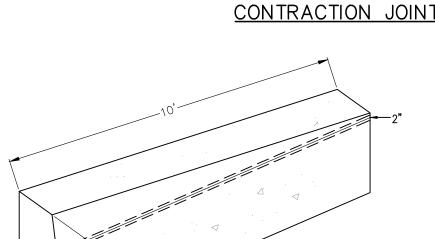


WYES, REDUCERS, 45° BEMDS AND BELL/BELL

FILLINGS ARE ALSO AVAILABLE. DOWNSPOUT COLLECTOR CLOSED SYSTEM

NOT TO SCALE

WATERTIGHT (WT) JOINTS SHOWN. SOIL-TIGHT (ST)



SECTION CONTRACTION JOINT SEE "DETAIL A" NOTE: SPACE CONTRACTION JOINTS IN

TYPICAL CROSS

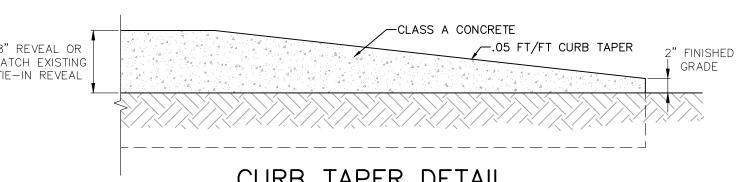
1/4" RADIUS__ 7"___1'

CLASS A CONCRETE ____3/4" RADIUS

END TREATMENT FOR UNIFORM LENGTHS OR SECTIONS PLAIN CONCRETE CURB PROPOSED CONCRETE CURB

DETAIL A

2" DEEP 3/16" WIDE



8" REVEAL OR MATCH EXISTING CURB TAPER DETAIL

BIKE 1 BIKE 4 BIKE 5 BIKE 6 BIKE 2 BIKE 3 NOTES: ORIGINAL CYCLOOPS BICYCLE RACK MODEL NO. 2170-7-C (7 BIKES) EMBEDMENT MOUNTING COLOR SHALL BE BLACK MAUFACTURES BY

7 BIKE - BIKE RACK DETAIL

COLUMBIA CASCADE, 1-800-547-1940 OR APPROVED EQUAL

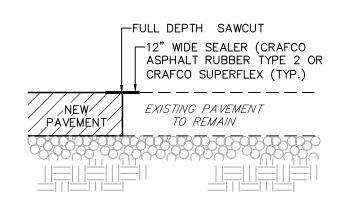
ROJECT NO:

_O.9" TO 1.4" OUTSIDE DIA. TOP DIA. 50% TO 65% OF BASE **PREDOMINANT** TRAVEL DIRECTION-1.6" TO 2.4" 0.20" → 0.9" TO 1.4" PARTIAL PLAN PARTIAL SECTION

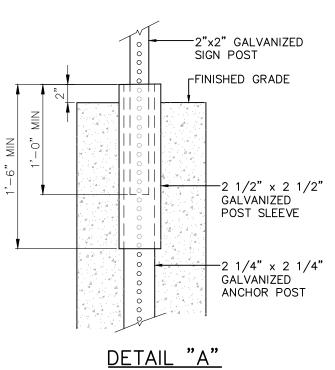
NOTES:

- 1. THE TRUNCATED DOME SURFACE SHALL CONTRAST VISUALLY WITH ADJOINING WALKING SURFACES EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE TRUNCATED DOME SURFACE.
- 2. DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE OF WARNING FIELD NEAREST TO THE ROADWAY OR STREET SURFACE IS 6" TO 8" FROM THE EDGE OF ROADWAY/STREET, OR FROM THE BACK OF THE DROPPED CURB, WHERE A DROPPED CURB CONTINUES ACROSS THE BOTTOM OF THE SIDEWALK CURB RAMP. THE DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.
- 3. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL.

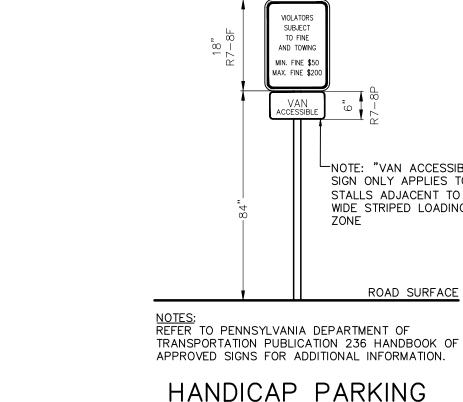
DETECTABLE WARNING SURFACE DETAIL



PAVEMENT SAWCUT DETAIL



BREAKAWAY POST DETAIL NOT TO SCALE



HANDICAP PARKING SIGN POST MOUNTING DETAIL NOT TO SCALE

[**&**]

 \longrightarrow

VIOLATORS SUBJECT TO FINE AND TOWING

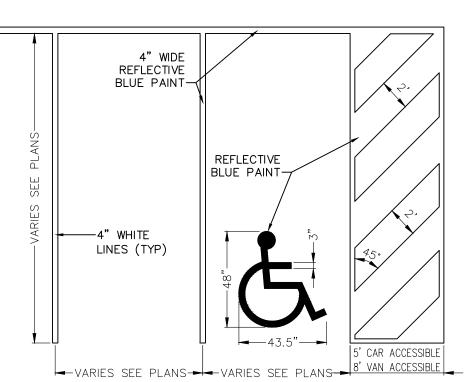
MIN. FINE \$50 MAX. FINE \$200

-NOTE: "VAN ACCESSIBLE"

ROAD SURFACE

PROJECT TITLE:

SIGN ONLY APPLIES TO STALLS ADJACENT TO 8' WIDE STRIPED LOADING



ACCESSIBLE PARKING STALL STRIPING DETAIL NOT TO SCALE

23-						
use #023-		GRAPHIC SCALE:				
warehouse	REV. NO.	REV. NO. DATE DESCRIPTION BY				
road	1	11/08/24	PER NCCD AND CITY COMMENTS	LME		
easton	2	01/16/24	PER CITY COMMENTS	LME		
3 1355						
2023\6637.23						
2023/6						

BEACON ROCK REALTY, LLC

3600 GLOVER ROAD

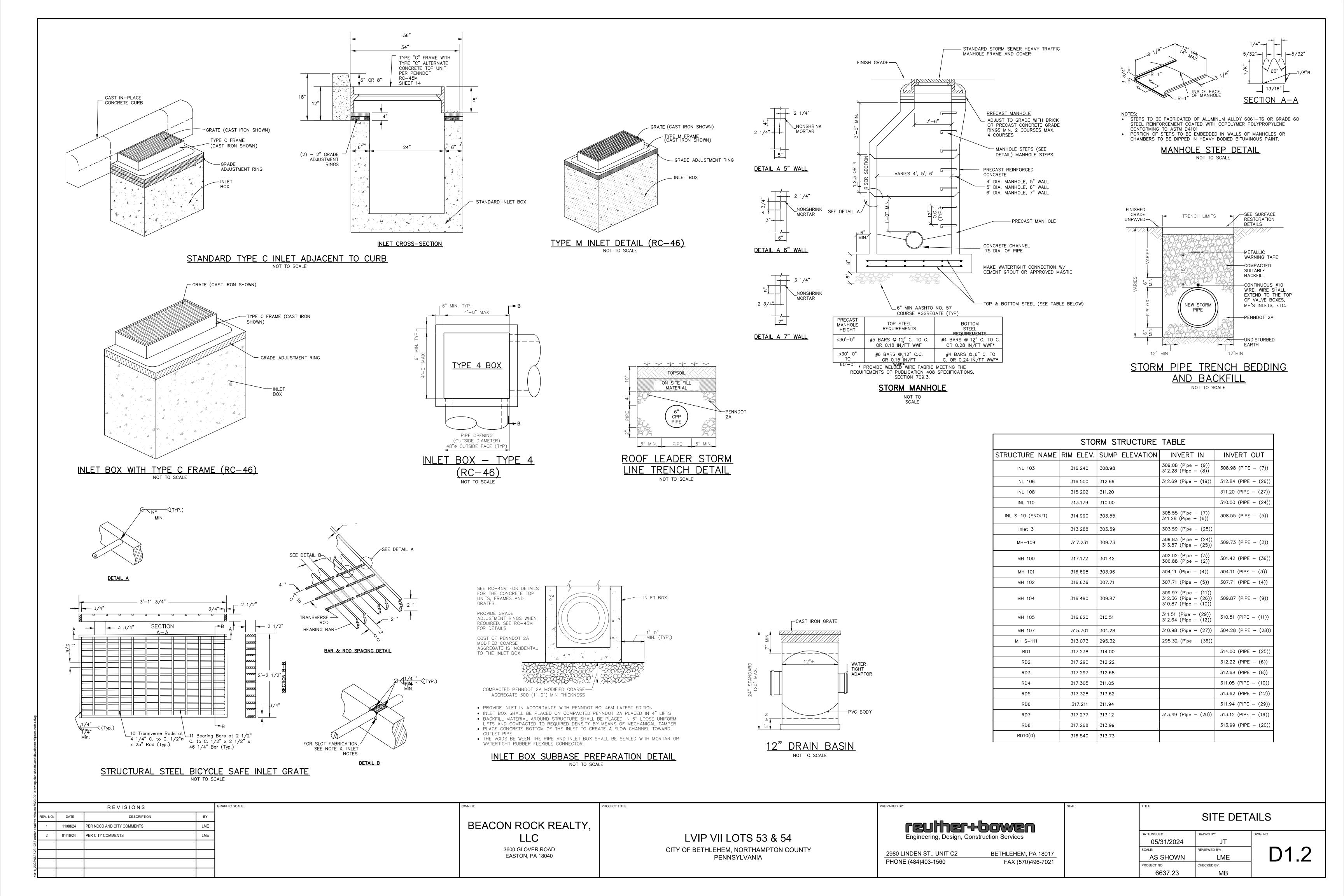
EASTON, PA 18040

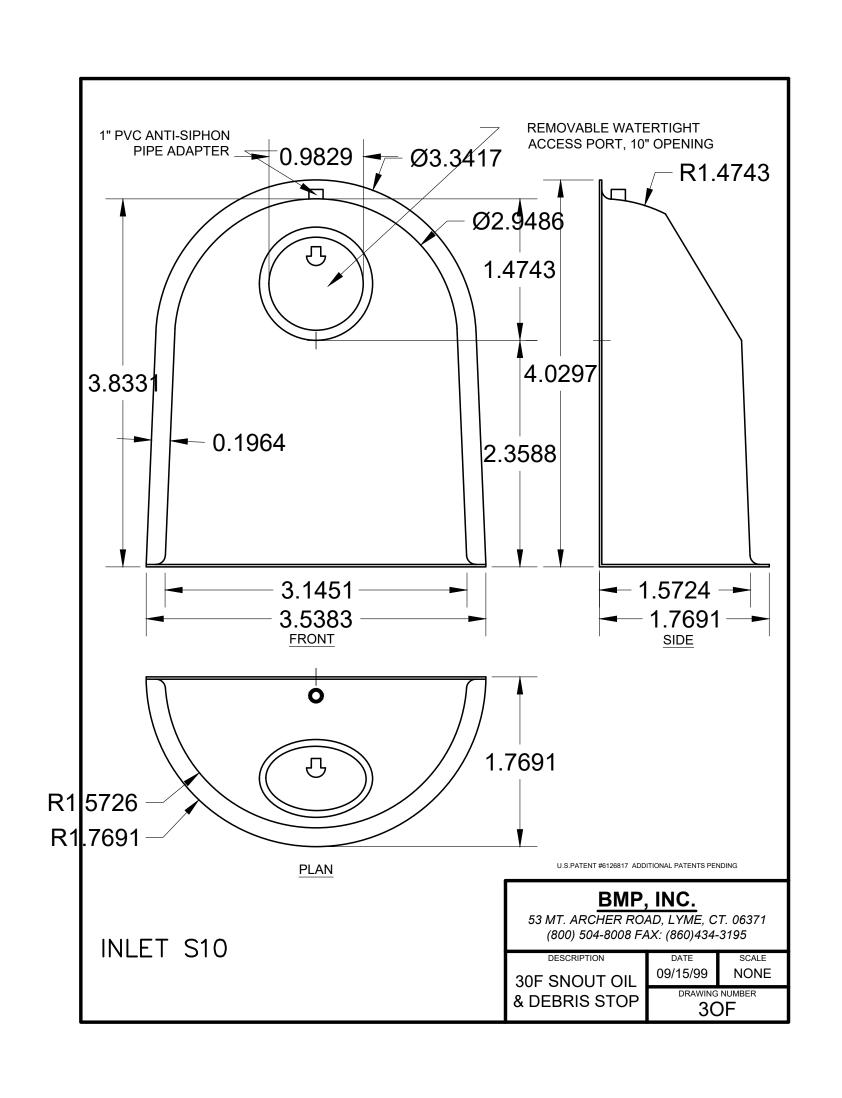
LVIP VII LOTS 53 & 54 CITY OF BETHLEHEM, NORTHAMPTON COUNTY PENNSYLVANIA

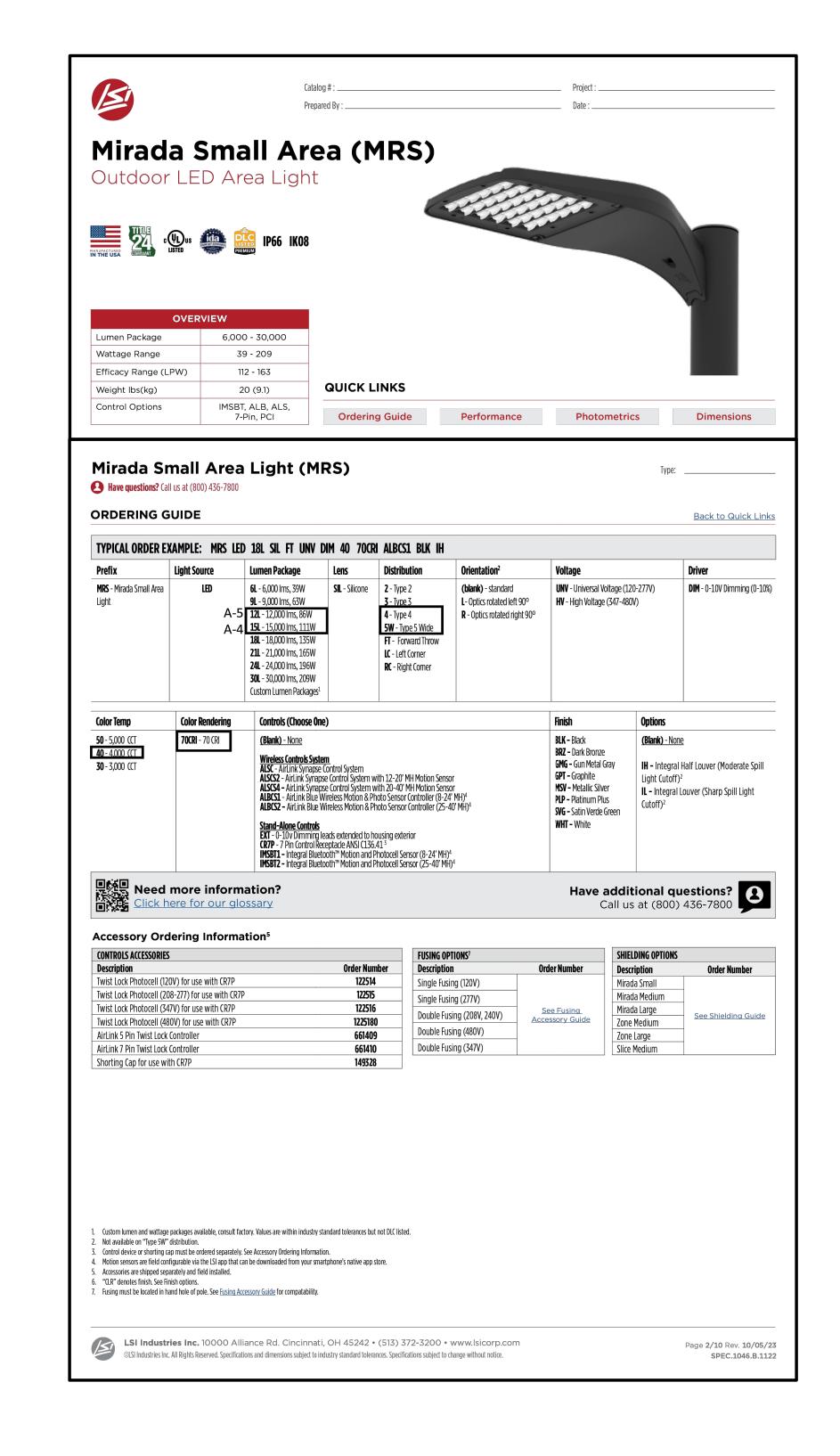
Engineering, Design, Construction Services

2980 LINDEN ST., UNIT C2 BETHLEHEM, PA 18017 PHONE (484)403-1560 FAX (570)496-7021 SITE DETAILS

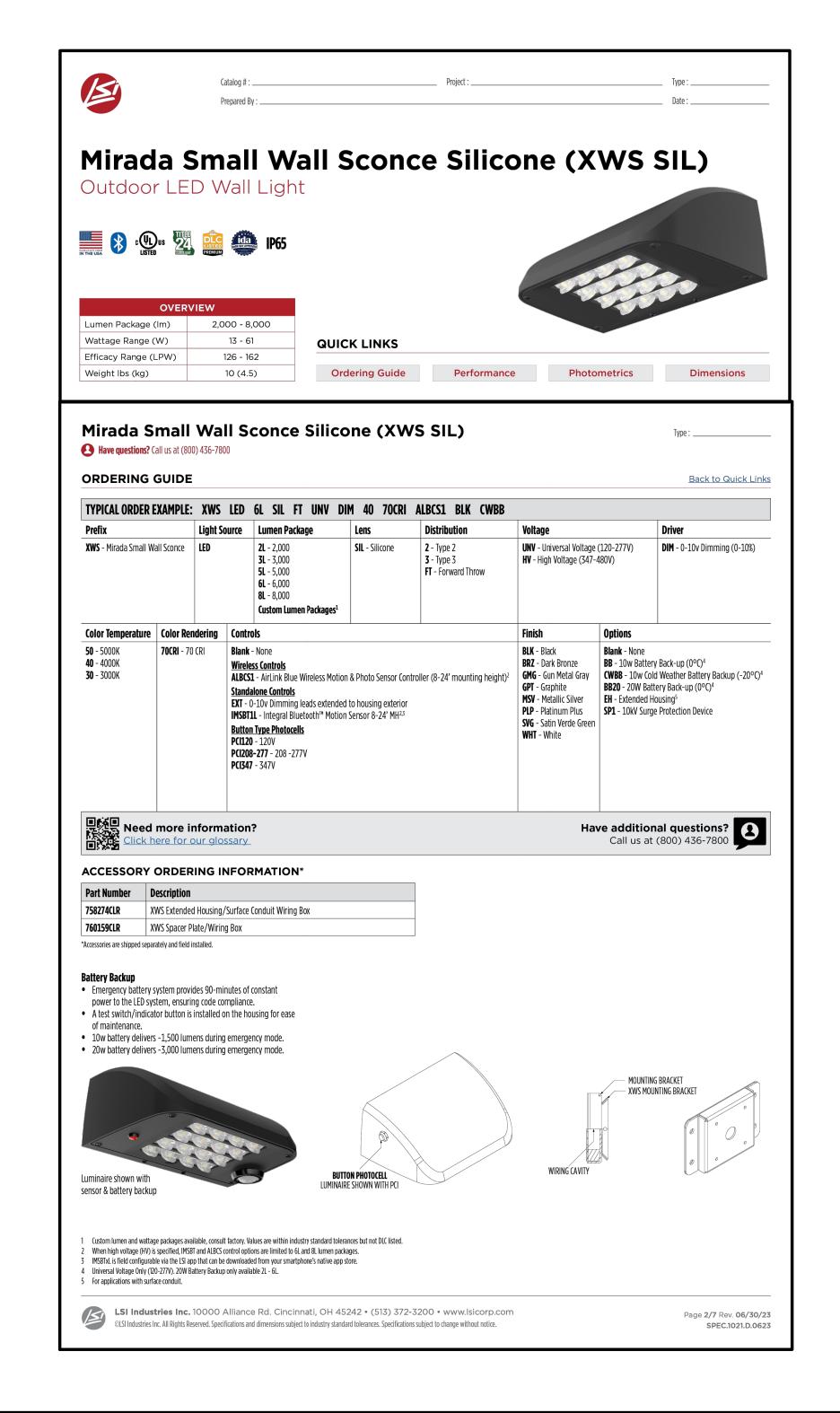
05/31/2024 REVIEWED BY: AS SHOWN LME CHECKED BY 6637.23







PROJECT TITLE:



BEACON ROCK REALTY, LLC

3600 GLOVER ROAD

EASTON, PA 18040

LVIP VII LOTS 53 & 54
CITY OF BETHLEHEM, NORTHAMPTON COUNTY

PENNSYLVANIA

Engineering, Design, Construction Services

2980 LINDEN ST., UNIT C2

PHONE (484)403-1560

FAX (570)496-7021

SITE DETAILS

DRAWN BY:

05/31/2024

CALE:

AS SHOWN

CHECKED BY:

CHEC

STANDARD E&S PLAN NOTES:

- 1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED 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 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.
- 2. 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 LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN 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.
- 3. 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. 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 EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT
- 7. 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.

STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.

- 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 ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT
- AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT. 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 REGULATIONS AT 25 PA. CODE 260.1 ET 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. EXAMPLE OF WASTE MATERIAL INCLUDE BUT IS NOT LIMITED TO: EXCESS SOIL MATERIAL, CONCRETE WASH WATER, PLASTIC ORANGE SAFETY FENCE, REMNANT PIECES OF PIPING, SCRAPS OF GEOTEXTILE, WOODEN STAKES.
- 11. 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. 12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE
- OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING. 13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- 14. 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 MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, 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.
- 15. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- 16. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER. 17. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS
- 18. 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 VEGETATED SHALL HAVE A MINIMUM 12 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 12 INCHES OF TOPSOIL.
- 19. 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.
- 20. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS. 21. 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.
- 22. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO
- 23. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 24. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- 25. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN
- 26. 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. 27. 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. 28. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY
- STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT 29. 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. 30. 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
- 31. 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 TO SCHEDULE A
- 32. 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.
- 33. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
- 34. ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES.
- 35. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS. 36. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL,

LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN

TOPSOIL APPLICATION:

- 1. PRIOR TO INITIATING PERMANENT STABILIZATION PROCEDURES, THE DISTURBED AREAS SHOULD BE PROPERLY PREPARED AND COVERED WITH TOPSOIL AS FOLLOWS:
- 2. GRADED AREAS SHOULD BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREAS AND PROVIDE A ROUGHENED SURFACE TO PREVENT TOPSOIL FROM SLIDING DOWN THE SLOPE.
- 3. TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTRUBED AREA TO A DEPTH OF 12 INCHES. AND A MINIMUM OF 12 INCHES OF FILL ON OUTSLOPES. SPREADING SHOULD BE DONE IN SUCH A MANNER THAT SODDING OR SEEDING CAN PRODUCE A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE. IRREGULARITIES IN THE SURFACE RESULTING FORM TOPSOIL PLACEMENT SHOULD BE CORRECTED IN ORDER TO PERVENT FORMATION OF DEPRESSIONS.
- 4. TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION. WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION. COMPACTED SOIL SHOULD BE SCARIFIED TO 6 TO 12 INCHES ALONG CONTOUR WHEREVER POSSIBLE PRIOR TO SEEDING.
- 5. SUITABLE TOPSOIL CONSISTS OF ACCEPTABLE FRIABLE LOAM THAT IS REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH, ROOTS, WEEDS, OTHER OBJECTIONABLE VEGETATION, STONES, OTHER FOREIGN MATERIAL LARGER THAN 2 INCHES IN ANY DIMENSION, LITTER, AND/OR OTHER MATERIAL UNSUITABLE OR HARMFUL TO PLANT GROWTH. TOPSOIL SHALL BE CONTAINED NOT LESS THAN 2.0% OR MORE THAN 10.0% ORGANIC MATTER. TOPSOIL SHALL MEET THE FOLLOWING GRADING ANALYSIS:

5.1. 2" SIEVE - MINIMUM 100% PASSING 5.2. NO. 4 SIEVE - MINIMUM 75% PASSING 5.3. NO. 10 SIEVE - MINIMUM 60% PASSING

6. SAND. SILT. AND CLAY MATERIAL PASSING THE NO. 10 SIEVE SHALL BE WITHIN THE FOLLOWING RANGES: 6.1. SAND: 5 TO 70% 6.2. SILT: 10 TO 70%

<u>8/1 TO 10/15</u>

EMPORARY SEEDING SPECIFICATIONS: SPECIEs: <u>PADOT_FORMULA_E</u> % PURE LIVE SEED: 86% APPLICATION RATE: 50LBS/ACRES LIMING RATE: 1 TON/ACRE MULCH: <u>HAY</u> MULCHING RATE: 3 TONS/ACRE 10-10-10 FERTILIZER <u>500LBS/ACRE</u>

6.3. CLAY: 5 TO 36%

FLATTER) % PURE LIVE SEED: SEE TABLE A APPLICATION RATE: SEE TABLE A LIMING RATE: 6 TON/ACRE MULCH: <u>STRAW</u> MULCHING RATE: 3 TONS/ACRE 10-20-20 FERTILIZER: 1,000 LBS/ACRE SEEDING SEASON DATES: 3/15 TO 6/1

PERMANENT SEEDING SPECIFICATIONS:

SPECIES: PA DOT FORMULA B (SLOPES 3:1 OR

THAN 3:1 \ % PURE LIVE SEED: SEE TABLE A APPLICATION RATE: SEE TABLE A LIMING RATE: 6 TON/ACRE MULCH: <u>STRAW</u> MULCHING RATE: 3 TONS/ACRE 10-20-20 FERTILIZER 1,000 LBS/ACRE SEEDING SEASON DATES: <u>3/15 TO 6/1</u>

PERMANENT-STEEP SLOPE SEEDING SPECIFICATIONS:

SPECIES: <u>PA DOT FORMULA D</u> (SLOPES GREATER

TABLE A					
Formula and Species	% by	Minimum %		Max. %	Seeding Rate
•	Weight	Purity	Germination	Weed Seed	lb/1000 Yd²
Formula B * Perennial Ryegrass Mixture(Lolium perenne). A combination of improved certified varieties with no one variety exceeding 50% of the total Ryegrass assessed.	20	97	90	0.10	42.0 Total 8.5
of the total Ryegrass component. * Creeping Red Fescue or Chewing Fescue. (Festuca rubra or ssp commutate) Improved and Certified)	30	97	85	0.10	12.5
* Kentucky Bluegrass Mixture (Poa pratensis). A combination of improved certified varieties with no one variety exceeding 50% of the total Bluegrass component.	50	97	80	0.15	21.0
Formula C * Crownvetch (Coronilla varia) * Perennial Ryegrass Mixture (Lolium multiflorum)	45 55	99 95	70+ 90	0.10 0.10	12.0 Total 5.5 6.5
Formula D * Tall Fescue (Festuca arundinacea var. Kentucky 31) * Creeping Red Fescue or Chewing Fescue (Festuca rubra or ssp commutate) Improved and Certified	60 30	96 97	85 85	0.10 0.10	50.0 Total 30.0 15.0
* Annual Ryegrass (Lolium multiforum)	10	95	90	0.10	5.0
Formula E * Annual Ryegrass (Lolium multiflorum)	100	95	90	0.10	10.0 Total 10.0
Formula L * Hard Fescue Mixture (Festuca longifolia) A combination of improved certified varieties with no one variety exceeding	55	97	85	0.10	48.0 Total 26.4
50% of the total Hard Fescue component. * Creeping Red Fescue (Festuca rubra) (Improved and Certified)	35	98	85	0.10	16.8
* Annual Ryegrass (Lolium Multiflorum)	10	95	90	0.10	4.8
Formula W * Tall Fescue (Festuca arundinacea var. Kentucky 31) * Birdsfoot Trefoil Mixture (Lotus comiculatus) * Redtop (Agrostis alba) * Virginia Wild Rye (Elymus virginicus) * Tioga Deertongue (Panicum clandestimum) * Fox Sedge (Carex vulpinoides)	30 10 10 24 14	96 92 92 85 95	85 80+ 80 70 80 60	0.10 0.10 0.20 0.20 0.20 0.20	15.0 Total 4.5 1.5 1.5 3.6 2.1

NOTE: MULCH RATE FOR INTERIM AND FINAL SEEDING SHALL BE 3 TONS PER ACRE.

+ Including hardseed and normal seedlings

SEQUENCE OF CONSTRUCTION:

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE OF CONSTRUCTION ACTIVITIES. EACH STAGE SHALL BE COMPLETED BEFORE A SUBSEQUENT STAGE IS INITIATED. UPON THE COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED. AT LEAST SEVEN (7) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES: THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARER. AND THE CONSERVATION DISTRICT TO AN ON-SITE MEETING. ALSO, AT LEAST THREE (3) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT (800) 242-1776 AND THE NORTHAMPTON COUNTY CONSERVATION DISTRICT AT (610) 829-6276.

- STORMWATER FACILITIES SHOULD BE INSTALLED STARTING AT THE OUTLET AREAS AND PROGRESS UPSTREAM, INSTALLING BMPS AND LININGS AS WORK PROGRESSES.
- REFER TO TRENCH EXCAVATION NOTES FOR ALL TRENCHING OPERATIONS.
- A PUMPED WATER FILTER BAG SHALL BE UTILIZED TO DEWATER EXCAVATIONS AS NEEDED.
- STOCKPILE ALL SUITABLE MATERIAL FOR REUSE WITHIN AN APPROVED STOCKPILE LOCATION AND HAUL ALL UNSUITABLE MATERIAL OFF-SITE TO AN APPROVED DISPOSAL LOCATION. **SEQUENCE OF CONSTRUCTION:**

1. AT LEAST SEVEN (7) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OWNER AND/OR OPERATOR SHALL INVITE

- ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES; THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARER, AND A REPRESENTATIVE FROM NORTHAMPTON COUNTY CONSERVATION DISTRICT TO AN
- 2. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES OR EXPANDING INTO AN AREA UNMARKED, PA ONE
- CALL SYSTEM SHALL BE NOTIFIED AT 1 800 242 1776. 3. THE CONTRACTOR SHALL CLEARLY MARK OUT THE LIMIT OF DISTURBANCE IN THE FIELD TO ENSURE ONLY THE MINIMUM AREA
- REQUIRED FOR CONSTRUCTION WILL BE CLEARED AND GRADED. 4. INSTALL RCE 1, RCE 2, RCE 3, AND CONCRETE WASHOUT AREA AS SHOWN ON THE APPROVED PLANS.
- 5. INSTALL COMPOST FILTER SOCKS CFS-4 THRU CFS-16. REMOVE EXISTING PARKING LOT AND ENTRANCE DRIVE IN THE AREA OF
- THE PROPOSED BUILDING AS SHOWN ON THE APPROVED PLANS. 6. REMOVE STORM SEWERS AND STRUCTURES FROM INL S-8 TO S-114 AND FROM S-120 TO S-114.
- 7. INSTALL STORM SEWERS FROM MH S-111 TO MH100, MH109 TO RD1, MH109 TO INL110, MH100 TO RD8 AND FROM MH104 TO RD6.
- INSTALL INLET FILTERS ON INLET S-10 AND INL 103 AFTER INLETS ARE REPLACED/CONSTRUCTED. 8. CONSTRUCT BUILDING AND TRUCK DOCKS.
- 9. CONCURRENT WITH STEP 7, INSTALL CFS-1 THRU CFS-3.
- 10. CONSTRUCT THE CAR PARKING LOT AND THE TRUCK PARKING LOT.
- 11. COMPLETE THE LANDSCAPING PER THE APPROVED PLANS.
- 12. ONCE THE PROPOSED STRUCTURES NO LONGER REQUIRE HEAVY EQUIPMENT FOR CONSTRUCTION. THE CONTRACTOR SHALL SWEEP ALL PAVEMENT AND PARKING AREAS AND PAVE WITH FINAL WEARING COURSE. PERFORM PAVEMENT LINE STRIPING AS INDICATED ON THE APPROVED PLANS.
- 13. UPON FINAL STABILIZATION OF UPSLOPE AREAS, REMOVE TEMPORARY CONTROLS SUCH AS COMPOST FILTER SOCKS. ALL DISTURBED AREAS SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

TRENCH EXCAVATION NOTES:

- 1. LIMIT THE LENGTH OF EXCAVATED TRENCH OPEN AT ANY ONE TIME TO THE AMOUNT OF PIPE THAT CAN BE INSTALLED AND BACKFILLED IN ONE WORKING DAY.
- 2. NOT MORE THAN 50 LINEAL FEET OF OPEN TRENCH SHOULD EXIST WHEN UTILITY INSTALLATION CEASES AT THE END OF THE
- 3. ALL EXCAVATED MATERIAL SHALL BE STOCKPILED A MINIMUM OF THREE (3) FEET AWAY FROM THE EXCAVATED TRENCH.
- 4. EXCAVATED MATERIAL SHOULD BE INCORPORATED AS FILL.
- 5. BACKFILL AND STABILIZE TRENCHES AT THE END OF EACH WORK DAY. STABILIZE WITH SUB-BASE MATERIAL IN PAVEMENT AREAS, AND WITH SEED AND MULCH IN VEGETATED AREAS.
- 6. MAINTAIN PUMPED WATER FILTER BAG ON-SITE TO DEWATER TRENCHES AS NECESSARY . FILTER BAGS MUST DISCHARGE TO AN
- E WETSORBIMP WITH SPECTIFICATION OF MARIATTERS AND COMPANY OF THE STATE OF THE STAT
- 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL ANY AND ALL INTERIM MEASURES AS REQUIRED TO PREVENT EROSION.
- 2. ANY EXPOSED GRADED AREAS IN WHICH WORK HAS CEASED FOR A PERIOD OF FOUR (4) DAYS OR MORE SHALL BE SEEDED WITH TEMPORARY SEEDING AND MULCH.
- 3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL EROSION AND SEDIMENTATION
- CONTROL DEVICES UNTIL COMPLETION OF THE PROJECT AND THE PERMANENT STABILIZATION OF 4. THE CONTRACTOR SHALL INSPECT EROSION AND SEDIMENTATION CONTROLS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK INCLUDING
- CLEAN OUR. REPAIR. REPLACEMENT. REGARDING RE-SEEDING, RE-MULCHING AND RE-NETTING MUST BE PERFORMED IMMEDIATELY. BMP SPECIFIC MAINTENANCE AND REPAIR SPECIFICATIONS ARE PROVIDED IN THE NOTES ON THE PLANS ACCOMPANYING THEIR CONSTRUCTION DETAILS.
- THE CONTRACTOR SHALL CLEAN AND REMOVE SEDIMENT CONTROL DEVICES WHEN IT BECOMES ONE-THIRD FULL, OR AS OTHERWISE SPECIFIED IN THE PLAN DETAILS. THE SEDIMENT REMOVED SHALL BE BURIED OR DISPOSED OF IN LANDSCAPED AREAS, AREAS TO BE VEGETATED,
- STOCKPILES, OR DISPOSED OF IN A LANDFILL AS WASTE. THE CONTRACTOR IS REQUIRED TO KEEP WRITTEN LOGS OF ALL E & S BMP INSPECTION AND
- 7. IF EROSION AND SEDIMENT CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- 8. THE CONTRACTOR SHALL IMMEDIATELY STABILIZE ANY DISTURBANCES WHICH MAY OCCUR AS PART OF SEDIMENT REMOVAL AND BMP MAINTENANCE.

ENVIRONMENTAL DUE DILIGENCE AND CLEAN FIL

THE CONTRACTOR IS RESPONSIBLE FOR IMPORTING (OR EXPORTING, AS APPROPRIATE) CLEAN FILL TO OR FROM THE PROJECT SITE. ALL FILL MATERIALS MUST BE USED IN ACCORDANCE WITH THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL" DOCUMENT NUMBER 258-2182-773.

"CLEAN FILL" IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK. BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR

CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1a AND FP-1b

ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULT OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL AND MUST BE KEPT ON SITE AND MADE AVAILABLE UPON REQUEST OF THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT. FAILURE TO PRODUCE THE FORM UPON REQUEST MAY RESULT IN REVOKING, SUSPENSION OR TERMINATION OF YOUR PERMIT COVERAGE. A COPY OF FORM FP-001 CAN BE FOUND AT THE END OF

ENVIRONMENTAL DUE DILIGENCE: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS,

FOUND IN THE DEPARTMENTS POLICY "MANAGEMENT OF FILL"

ELECTRONIC DATA BASE SEARCHES, REVIEW OF PEROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECT TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENTS POLICY "MANAGEMENT OF FILL." FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE(S) RECEIVING SPOIL SOILS MATERIAL FROM THIS SITE HAS AN ACTIVE NPDES PERMIT OR E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT, AS APPLICABLE. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THESE PERMITS/PLAN APPROVALS IF NONE EXIST.

SOIL DESCRIPTIONS:

CIB - CLARKSBURG SILT LOAM, 3 TO 8 PERCENT SLOPES, HSG C

- CnB COKESBURY SILT LOAM, 3 TO 8 PERCENT SLOPES, HSG D
- Ho HOLLY SILT LOAM, HSG B/D
- UbB UDORTHENTS, LIMESTONE, 0 TO 8 PERCENT SLOPES, HSG D WaC - WASHINGTON SILT LOAM, 8 TO 15 PERCENT SLOPES, HSG B

SOIL LIMITATIONS AND RESOLUTIONS:

- CUTBANKS/CAVE. STABILIZE DISTURBED AREAS WITH SEED, MULCH AND SOIL SUPPLEMENTS ON SLOPES 3:1 OR GREATÉR PROVIDE SLOPE MATTING.
- CORROSIVE TO STEEL, STEEL BURIED IN CONSTRUCTION INCLUDES REBAR WHICH WILL BE ENCASED IN CONCRETE.
- CORROSIVE TO CONCRETE. SOIL WITH HIGH SULPHATE CONTENT IS CORROSIVE TO CONCRETE. USE SULPHATE-RESISTANT BLAST-FURNACE CEMENT. COAT CONCRETE WITH BITUMEN OR USE PRECAST CONCRETE
- STRUCTURES WHEN CONCRETE IS BURIED.

FROST ACTION — LIMIT CONSTRUCTION TO NON—OBSTRUCTIVE MEASURES DURING WINTER MONTHS.

- DROUGHTY- PROVIDE PROPER SOIL SUPPLEMENTS TO PROMOTE VEGETATIVE GROWTH.
- HYDRIC/HYDRIC INCLUSIONS AERATE SOIL FOR VEGETATIVE GROWTH.
- SLOW PERCOLATION AVOID COMPACTION WITHIN INFILTRATION AREAS.

PROVED BY THE LOCAL CONSERVATION DISTRICT, AS APPLICABLE. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THESE PERMITS/PLAN APPROVALS IF NONE EXIST.

RECYCLING OR DISPOSAL OF WASTE MATERIALS

THE CONTRACTOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.

SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPE, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.

MAINTENANCE REQUIREMENTS

JNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING, MUST BE PERFORMED IMMEDIATELY, IF FROSION AND SEDIMENT CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED. MAINTENANCE REQUIREMENTS SPECIFIC TO EACH EROSION AND SEDIMENTATION BMP, WHERE APPLICABLE, CAN BE FOUND ACCOMPANYING THE CONSTRUCTION DETAILS FOR THAT DEVICE. E&S BMP DETAILS CAN BE FOUND ON THE E&S PLAN DRAWINGS.

RECYCLING OR DISPOSAL OF MATERIALS:

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.THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY

PROJECT MAY INCLUDE THE FOLLOWING: CONCRETE WASH WATER

BUILDING MATERIAL OR WASTES AT THE SITE.

EXCESS SOIL MATERIAL PLASTIC ORANGE SAFETY FENCE

EXAMPLES OF CONSTRUCTION WASTES FROM THIS

REMNANT PIECES OF PIPING SCRAPS OF GEOTEXTILE AND EROSION CONTROL BLANKETS

BY THE CONTRACTOR AND MADE AVAILABLE ON SITE AT ALL TIMES.

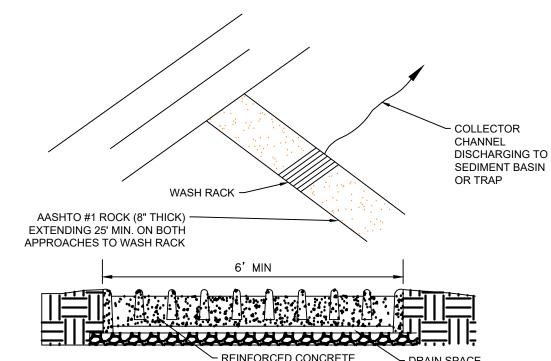
WOODEN STAKES MAINTENANCE PROGRAM:

HE CONTRACTOR IS REQUIRED TO INCORPORATE ALL TEMPORARY AND PERMANENT CONTROL MEASURES AND FACILITIES INDICATED ON THE APPROVED PLAN SET, INTO THE PROJECT AT THE FARLIEST PRACTICABLE TIME. THE CONTRACTOR IS RESPONSIBLE FOR APPLYING, CLEANING, AND MAINTAINING ALL CONTROL FEATURES DURING CONSTRUCTION. APPROPRIATE EROSION AND SEDIMENT POLLUTION CONTROL FEATURES SHALL BE APPLIED TO SECTIONS SUCH AS BORROW PITS AND MATERIAL STORAGE AREAS UNFORESEEN PRIOR TO CONSTRUCTION. PERMANENT EROSION CONTROL FACILITIES WILL BE MAINTAINED BY THE OWNER.

THE TEMPORARY FACILITIES FOR EROSION AND SEDIMENT POLLUTION CONTROL SHALL BE INSPECTED A MINIMUM OF ONCE A WEEK AND AFTER EVERY RAINFALL EVENT. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF COMPOST SOCKS AND 1/3 THE ABOVE GROUND HEIGHT OF ROCK FILTERS. ANY COMPOST SOCK SECTION THAT HAS BEEN UNDERMINED OR OVERTOPPED MUST BE IMMEDIATELY REPLACED. AS CONSTRUCTION PROGRESSES HAVE BEEN STABILIZED, TEMPORARY EROSION CONTROL STRUCTURES ARE TO BE CLEANED AND

PPC PLAN:

IF THE CONTRACTOR INTENDS ON STORING, USING OR TRANSPORTING WASTE MATERIALS, FUELS OR CHEMICALS ON OR FROM THE PROJECT SITE DURING CONSTRUCTION A PPC PLAN MUST BE PREPARED



OR WELDED STEEL PIPE

- WASH RACK SHALL BE 20 FEET (MIN.) WIDE OR TOTAL WIDTH OF ACCESS. - WASH RACK SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE ANTICIPATED CONSTRUCTION VEHICULAR TRAFFIC.

- A WATER SUPPLY SHALL BE MADE AVAILABLE TO WASH THE WHEELS OF ALL VEHICLES EXITING THE SITE. MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. DRAIN SPACE UNDER WASH RACK SHALL BE KEPT OPEN AT ALL TIMES. DAMAGE TO THE WASH RACK SHALL BE REPAIRED PRIOR TO FURTHER USE OF THE RACK. ALL SEDIMENT DEPOSITED ON ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

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

NOT TO SCALE

05/31/2024

AS SHOWN

6637.23

OJECT NO:

GRAPHIC SCALE REVISIONS REV. NO. DATE 11/08/24 PER NCCD AND CITY COMMENTS 2 01/16/24 PER CITY COMMENTS

ACCORDANCE WITH THE SPECIFICATIONS.

BEACON ROCK REALTY.

LVIP VII LOTS 53 & 54 3600 GLOVER ROAD CITY OF BETHLEHEM, NORTHAMPTON COUNTY EASTON, PA 18040 PENNSYLVANIA

PROJECT TITLE

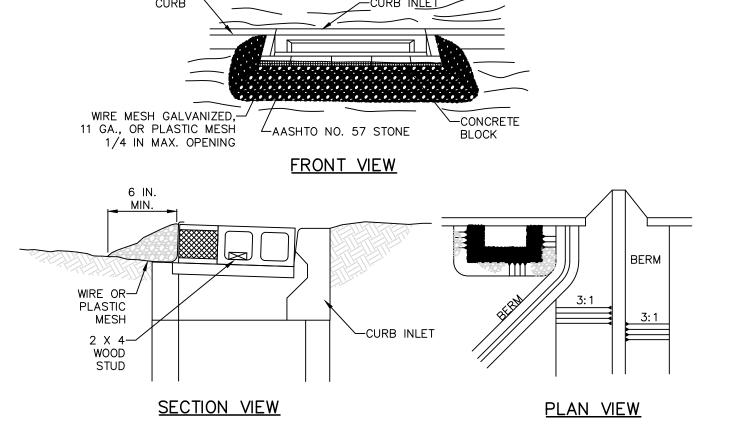
Engineering, Design, Construction Services

2980 LINDEN ST., UNIT C2

PHONE (484)403-1560

BETHLEHEM, PA 18017 FAX (570)496-7021 **E&S NOTES**

EVIEWED BY I MF CHECKED B



MAXIMUM DRAINAGE AREA = 1 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 PROVIDED AND MAINTAINED IMMEDIATELY DOWN GRADIENT OF THE PROTECTED INLET 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.

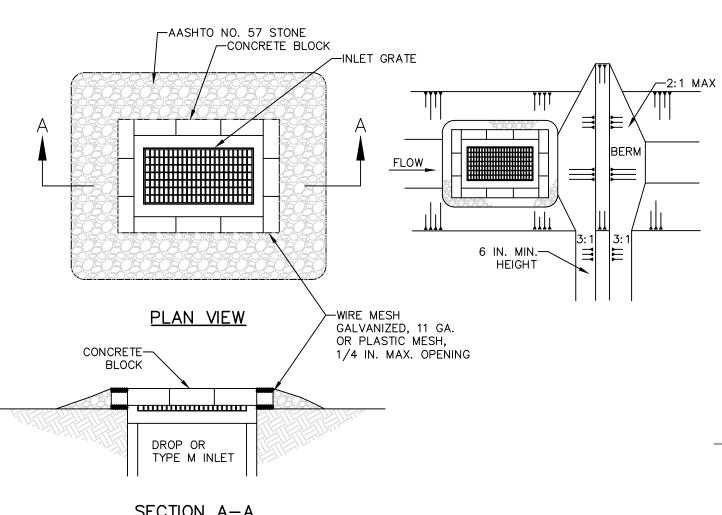
SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE STONE. DAMAGED OR CLOGGED INSTALLATIONS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

FOR SYSTEMS DISCHARGING TO HQ OR EV SURFACE WATER, A 6 INCH THICK COMPOST LAYER SHALL BE SECURELY ANCHORED ON OUTSIDE AND OVER TOP OF STONE.

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

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

NOT TO SCALE



SECTION A-A

MAXIMUM DRAINAGE AREA =1 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS NOT LOCATED AT A LOW POINT.

ROLLED EARTHEN BERM IN ROADWAY SHALL BE PROVIDED AND MAINTAINED IMMEDIATELY DOWN GRADIENT OF THE PROTECTED INLET UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR TO REMAIN

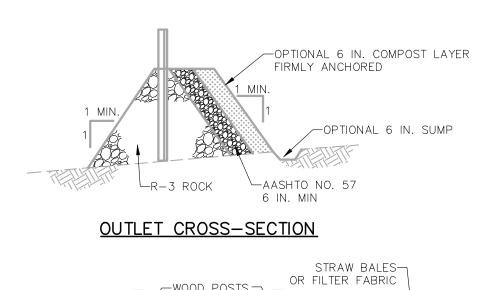
TOP OF BLOCK SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.

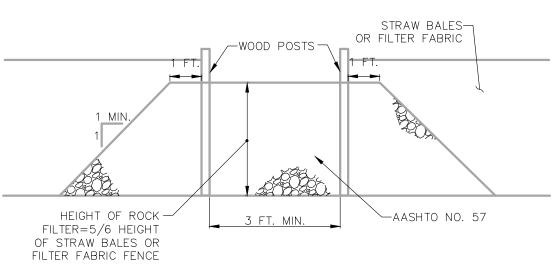
SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE STONE. DAMAGED OR CLOGGED INSTALLATIONS SHALL BE REPAIRED OR REPLACED IMMEDIATELY. FOR SYSTEMS DISCHARGING TO HQ OR EV SURFACE WATER, A 6 INCH THICK COMPOST LAYER

SHALL BE SECURELY ANCHORED ON OUTSIDE AND OVER TOP OF STONE. COMPOST SHALL MEET

THE STANDARDS IN TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL. STANDARD CONSTRUCTION DETAIL #4-18 STONE AND CONCRETE BLOCK INLET PROTECTION - TYPE M

NOT TO SCALE



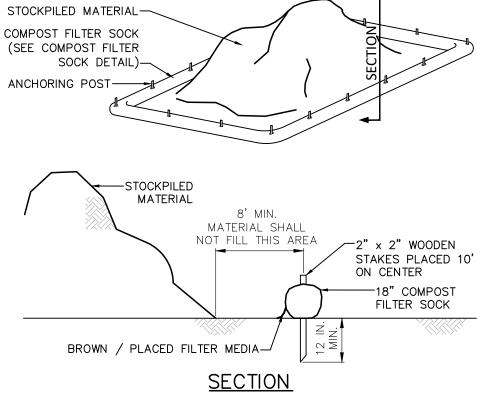


UP-SLOPE FACE

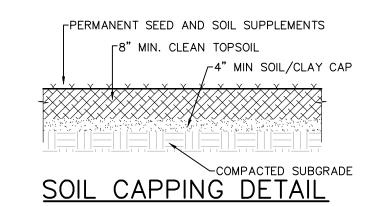
A ROCK FILTER OUTLET SHALL BE INSTALLED WHERE FAILURE OF A SILT FENCE OR STRAW BALE BARRIER HAS OCCURRED DUE TO CONCENTRATED FLOW. ANCHORED COMPOST LAYER SHALL BE USED ON UPSLOPE FACE IN HQ AND EV WATERSHEDS.

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET. STANDARD CONSTRUCTION DETAIL #4-6

> ROCK FILTER OUTLET NOT TO SCALE



STOCKPILE CONTROL DETAIL NOT TO SCALE



NOT TO SCALE

WELL VEGETATED, GRASSY AREA CLAMPS FILTER **INTAKE HOSE** - HEAVY DUTY LIFTING STRAPS (RECOMMENDED) PLAN VIEW HOSE ← CLAMPS XFILTER BAG WELL VEGETATED, GRASSY AREA **INTAKE HOSE ELEVATION VIEW**

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
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%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE 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.

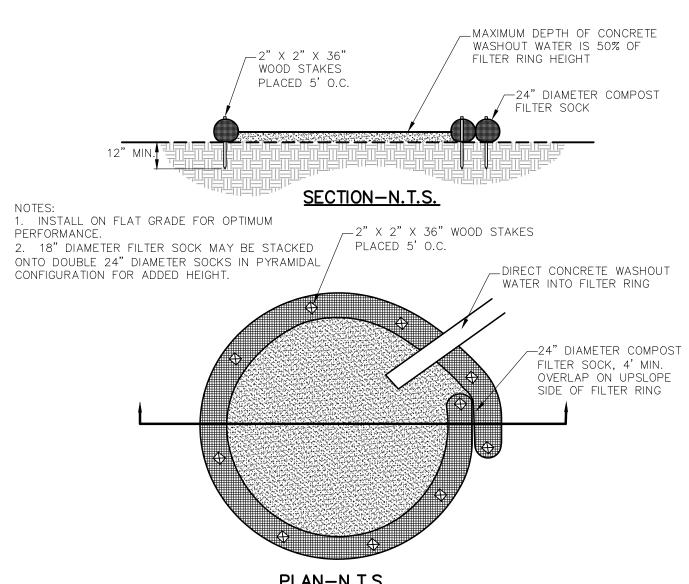
BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER 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.

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. 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

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

STANDARD CONSTRUCTION DETAIL #3-16 PUMPED WATER FILTER BAG

NOT TO SCALE



PLAN-N.T.S.

A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACES AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.

> ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED

ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY. PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.

COMPOST FILTER SOCK WASHOUT NOT TO SCALE

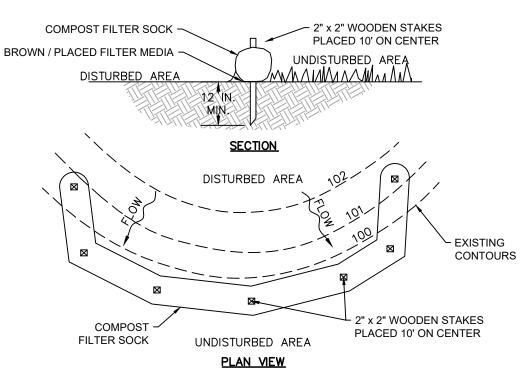
TABLE 4.1 **COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS**

MATERIAL TYPE	3 mil HDPE	5 mil HDPE	5 mil HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPLENE (HDMFPP)	
MATERIAL CHARACTERISTICS	PHOTO- DEGRADABLE	PHOTO— DEGRADABLE	BIO- DEGRADABLE	PHOTO— DEGRADABLE	PHOTO- DEGRADABLE	
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	
MESH OPENING	3/8"	3/8"	3/8"	3/8"	1/8"	
TENSILE STRENGTH		26 PSI	26 PSI	44 PSI	202 PSI	
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	23% AT 1000 HR.	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	
		TWO-PLY	SYSTEMS			
INNER CON	TAINMENT NETT	ING	HDPE BIAXIAL NET CONTINUOUSLY WOUND FUSION—WELDED JUNCTURES 3/4" X 3/4" MAX. APERTURE SIZE			
OUTER FILTRATION MESH			COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER AND NON-WOVEN FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH) 3/16" MAX. APERTURE SIZE			

COMPOST STANDARDS					
ORGANIC MATTER CONTENT	25% - 100% (DRY WEIGHT BASIS)				
ORGANIC PORTION	FIBROUS AND ELONGATED				
рН	5.5 - 8.5				
MOISTURE CONTENT	30% - 60%				
PARTICLE SIZE	30%-50% PASS THROUGH 3/8" SCREEN				
SOLUBLE SALT CONCENTRATION	5.0 dS/m (mmhos/cm) MAXIMUM				

TABLE 4.2

Filtrexx & JMD



PROJECT TITLE:

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 SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION. BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTO-DEGRADABLE 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

> > NOT TO SCALE

GRAPHIC SCALE REVISIONS DATE 11/08/24 PER NCCD AND CITY COMMENTS 2 01/16/24 PER CITY COMMENTS 3600 GLOVER ROAD EASTON, PA 18040

BEACON ROCK REALTY,

LVIP VII LOTS 53 & 54 CITY OF BETHLEHEM, NORTHAMPTON COUNTY PENNSYLVANIA

Engineering, Design, Construction Services

2980 LINDEN ST., UNIT C2 BETHLEHEM, PA 18017 PHONE (484)403-1560 FAX (570)496-7021

E&S NOTES & DETAILS

ATE ISSUED:	DRAWN BY:	DWG. NO.
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AS SHOWN	LME	
ROJECT NO:	CHECKED BY:	
6637.23	MB	

PCSM MAINTENANCE NOTES:

OWNERSHIP AND MAINTENANCE RESPONSIBILITIES

PROPOSED POST CONSTRUCTION MANAGEMENT FACILITIES CONSTRUCTED IN ACCORDANCE WITH THIS PROJECT WILL REMAIN THE RESPONSIBILITY OF THE PROPERTY OWNER ON WHICH THE FACILITY EXISTS. THE CURRENT OWNER OF THE PROPERTY IS BEACON ROCK REALTY, LLC.

OPERATION AND MAINTENANCE

THE STORMWATER MANAGEMENT FACILITIES FOR THIS PROJECT INCLUDE PIPES, INLETS, AND SNOUTS.. STORMWATER CONVEYANCE FACILITIES SHOULD BE INSPECTED ANNUALLY OR AFTER EACH SIGNIFICANT RAINFALL EVENT (1-YEAR STORM). REGULAR MAINTENANCE OF FACILITIES WILL INCLUDE THE FOLLOWING:

STORMWATER INLETS: INSPECT STORMWATER INLETS ANNUALLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT. REMOVE SEDIMENT BUILD UP IN STORMWATER INLETS WHEN SEDIMENT REACHES A DEPTH OF 6-INCHES. REMOVE ANY DEBRIS FROM INLET GRATE TO MAINTAIN RUNOFF CAPTURE EFFICIENCY. REPAIR OR REPLACE STORMWATER INLET COMPONENTS (BOX, TOP UNIT, GRATE, ETC.) IMMEDIATELY AS NEEDED.

1.1. FOR THE FIRST YEAR: MONTHLY MONITORING OF A NEW INSTALLATION AFTER THE SITE HAS BEEN STABILIZED. MEASUREMENTS SHOULD BE TAKE AFTER EACH RAIN EVENT OF 0.5 INCHES OR MORE, OR MONTHLY, AS DETERMINED BY LOCAL WEATHER. CHECKING SEDIMENT DEPTH AND NOTING THE SURFACE POLLUTANTS IN THE STRUCTURE WILL BE HELPFUL IN PLANNING MAINTENANCE. RAINFALL VOLUME VS SEDIMENT AND DEBRIS CAPTURE CAN THEN BE PLOTTED AS AN ACCURATE PREDICTOR OF SERVICE INTERVALS.

1.2. ONGOING MAINTENANCE AFTER FIRST YEAR: 1.1.1. THE POLLUTANTS COLLECTED IN SNOUT EQUIPPED STRUCTURES WILL CONSIST OF FLOATABLE DEBRIS, TRASH IT IS BEST TO SCHEDULE MAINTENANCE BASE ONT HE SOILS COLLECTED IN THE SUMP.

OPTIMALLY, THE STRUCTURE SHOULD BE CLEANED WHEN THE SUMP IS HALF FULL FOR FLOATABLES AND TRASH ONLY, SERVICE WHEN 6" OF FLOATING MATERIAL ACCUMULATES ON THE

SURFACE ABOVE STATIC WATER LEVEL STRUCTURES SHOULD ALSO BE CLEANED IF A SPILL OR OTHER INCIDENT CAUSES A LARGER THAN NORMAL ACCUMULATION OF POLLUTANTS IN A STRUCTURE.

MAINTENANCE IS BEST DONE WITH A VACUUM TRUCK. ALL COLLECTED WASTES MUST BE HANDLED AND DISPOSED OF ACCORDING TO LOCAL ENVIRONMENTAL 1.1.6.

REQUIREMENTS TO MAINTAIN THE SNOUT HOODS THEMSELVES, AN ANNUAL INSPECTION OF THE ANTI-SIPHON VENT AND ACCESS HATCH ARE RECOMMENDED. A SIMPLE FLUSHING OF THE VENT, OR A GENTLE RODDING WITH A FLEXIBLE WIRE ARE ALL THAT IS TYPICALLY NEEDED TO MAINTAIN THE ANTI-SIPHON PROPERTIES. OPENING AND CLOSING THE ACCESS HATCH ONE A YEAR ENSURES A LIFETIME OF TROUBLE FREE SERVICE.

TO MAINTAIN TRASH SCREEN, HOSE OFF DEBRIS FROM SCREEN (IF ANY) PRIOR TO REMOVAL OF POLLUTANTS BY VACUUM TRUCK. 2. STORMWATER PIPES: INSPECT STORMWATER PIPES ANNUALLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT TO ENSURE NO BLOCKAGES HAVE OCCURRED. REPAIR OR REPLACE BROKEN OR STRUCTURALLY COMPROMISED PIPES

IMMEDIATELY. FLUSH SEDIMENT FROM STORMWATER PIPES WHEN SEDIMENT DEPTH REACHES 3-INCHES. 3. ADDITIONAL MAINTENANCE REQUIREMENTS: IT IS THE RESPONSIBILITY OF THE OWNER TO MAINTAIN THE PROPERTY DRAINAGE OF THE SITE. THIS INCLUDES LAWN MAINTENANCE, INCLUDING PROPER WATERING AND MOWING AND THE REPLACEMENT OF ANY VEGETATION THAT HAS ERODED, REGULAR INSPECTION AND MAINTENANCE OF ROOF DRAINS AND REGULARLY CLEANING DEBRIS FROM GUTTERS AND DOWNSPOUTS. IT IS THE RESPONSIBILITY OF THE OWNER TO MAINTAIN THE STORM SEWER SYSTEM INCLUDING THE HEADWALLS AND PIPES. INLETS AND HEADWALLS SHALL BE INSPECTED ONCE PER MONTH FOR DEBRIS OR TRASH AND THE PIPES SHALL BE CLEANED IF NECESSARY. ANY EROSION AT OUTLETS SHALL BE REPAIRED IMMEDIATELY WITH THE APPROPRIATELY SIZED RIPRAP APRON OR CABLE

4. IT IS THE RESPONSIBILITY OF THE OWNER TO ENSURE THAT ALL MATERIAL TRANSPORTED ON AND OFF OF THE SITE AND STORED ONT HE SITE ARE HANDLED AND STORED PROPERLY TO PREVENT SPILLAGE AND CONTAMINATION OF DOWNSTREAM WATERS. IN THE EVENT OF A SPILL, IT IS THE RESPONSIBILITY OF THE OWNER TO IMMEDIATELY CLEAN ALL AFFECTED AREAS AND MITIGATE ALL DOWNSTREAM IMPACTS. IT IS THE RESPONSIBILITY OF THE OWNER TO ENSURE THAT ANY AND ALL TENANTS WITHIN THE SITE HAVE AN EMERGENCY PLAN PREPARED FOR IMMEDIATE IMPLEMENTATION UPON A SPILL OF ANY MATERIAL UNDER THIS CONTROL. ALL TENANTS SHALL ENSURE THAT THE EMERGENCY PLAN IS POSTED AND THAT ALL STAFF ARE TRAINED IN ITS IMPLEMENTATION.

CRITICAL STAGE INSPECTION

THE FOLLOWING STEPS OF THE SITE CONSTRUCTION WILL BE CONSIDERED A CRITICAL STAGE INSPECTION WHERE A LICENSED PROFESSION MUST BE PRESENT ONSITE TO ENSURE THE BMPS ARE INSTALLED CORRECTLY.

1 - A PRE-CONSTRUCTION MEETING HELD PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

2 - INSPECTION PRIOR TO REMOVAL OF E&S CONTROLS 3 - FINAL INSPECTION AT PROJECT COMPLETION

PERMIT TERMINATION

UPON PERMANENT STABILIZATION OF THE EARTH DISTURBANCE ACTIVITY UNDER § 102.22(A)(2) (RELATING TO PERMANENT STABILIZATION). AND INSTALLATION OF BMPS IN ACCORDANCE WITH AN APPROVED PLAN PREPARED AND IMPLEMENTED IN ACCORDANCE WITH §§ 102.4 AND 102.8 (RELATING TO EROSION AND SEDIMENT CONTROL REQUIREMENTS: AND PCSM REQUIREMENTS), THE PERMITTEE OR CO-PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION TO THE DEPARTMENT OR CONSERVATION DISTRICT.

THE NOTICE OF TERMINATION MUST INCLUDE:

(1) THE FACILITY NAME, ADDRESS AND LOCATION. (2) THE OPERATOR NAME AND ADDRESS.

) THE PERMIT NUMBER. 4) THE REASON FOR PERMIT TERMINATION.

(5) IDENTIFICATION OF THE PERSONS WHO HAVE AGREED TO AND WILL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPS IN ACCORDANCE WITH § 102.8(M) AND PROOF OF COMPLIANCE WITH §

PCSM REQUIREMENTS

PCSM REPORTING AND RECORDKEEPING: THE PCSM PLAN, INSPECTION REPORTS AND MONITORING RECORDS SHALL BE AVAILABLE FOR REVIEW AND INSPECTION BY THE DEPARTMENT OR THE CONSERVATION DISTRICT.

LICENSED PROFESSIONAL OVERSIGHT OF CRITICAL STAGES. A LICENSED PROFESSIONAL OR A DESIGNEE SHALL BE PRESENT ONSITE AND BE RESPONSIBLE DURING CRITICAL STAGES OF IMPLEMENTATION OF THE APPROVED PCSM PLAN.

FINAL CERTIFICATION. THE PERMITTEE SHALL INCLUDE WITH THE NOTICE OF TERMINATION "RECORD DRAWINGS" WITH A FINAL CERTIFICATION STATEMENT FROM A LICENSED PROFESSIONAL, WHICH READS AS FOLLOWS: "I (NAME) DO HEREBY CERTIFY PURSUANT TO THE PENALTIES OF 18 PA.C.S.A. \$ 4904 TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE ACCOMPANYING RECORD DRAWINGS ACCURATELY REFLECT THE AS-BUILT CONDITIONS, ARE TRUE AND CORRECT, AND ARE IN CONFORMANCE WITH CHAPTER 102 OF THE RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE PROJECT SITE WAS CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PCSM PLAN, ALL APPROVED PLAN CHANGES AND ACCEPTED CONSTRUCTION

(1) THE PERMITTEE SHALL RETAIN A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED PCSM PLAN. 2) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE

<u>EOLOGIC SOIL CONDITION/POTENTIAL NATURALLY OCCURRING</u>

POLLUTION CAUSING MATERIAL NOTE: THE SITE IS UNDERLAIN BY CARBONATE GEOLOGY WHICH IS PRONE TO SINKHOLES. A SINKHOLE MITIGATION DETAIL IS PROVIDED ON THE EROSION AND SEDIMENT CONTROL PLANS AND POST CONSTRUCTION STORMWATER MANAGEMENT

PCSM SEDIMENT DISPOSAL

1. SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN LANDSCAPED AREA OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED. OR PLACE IN TOPSOIL STOCKPILES. 2. SEDIMENT SHALL BE REMOVED FRO SILT SOXX WHEN REACHING ONE HALF THE HEIGHT OF THE SOXX. 3. THE CONTRACTOR SHALL INSPECT ALL ROCK CONSTRUCTION ENTRANCES ON A DAILY BASIS AND SHALL ENSURE THAT SEDIMENT IS NOT BEING TRACKED ONTO PUBLIC STREETS. SEDIMENT THAT IS TRACKED ONTO PUBLIC STREETS SHALL BE COLLECTED AND RETURNED TO THE SITE OR OTHERWISE PROPERLY REMOVED BY A STREET

UNFORSEEN EROSIVE CONDITIONS NOTES:

1. SHOULD UNFORSEEN EROSIVE CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASE RUNOFF AND/OR SEDIMENT DISPLACEMENT. STOCKPILES OF WOOD CHIPS, HAY BALES, CRUSHED STONE AND OTHER MULCHES SHALL BE HELD IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION

2. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISION OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25 PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION. SUBPART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.

3. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURE TO PROTECT EXISTING TREES AND SHRUBS WHICH ARE TO REMAIN IN PLACE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES. INCLUDING REPLACING TREES OR SHRUBS IN KIND IF NECESSARY

4. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING REGULARLY TRACKED ONTO PUBLIC STREETS, THE CONTRACTOR SHALL BE PREPARED, UPON WRITTEN NOTICE GIVEN BY THE MUNICIPALITY OR THE COUNTY CONSERVATION DISTRICT, TO PROVIDE TIRE WASHING FACILITIES AT ALL ROCK CONSTRUCTION ENTRANCES

POST CONSTRTUCTION STORMWATER MANAGEMENT DESIGN HE POST CONSTRUCTION STORMWATER MANAGEMENT DESIGN HAS BEEN IMPLEMENTED BY A DESIGN ENGINEER THAT IS FAMILIAR WITH DESIGN CONTROL GUIDELINES AND PROCEDURES. THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN HAS BEEN DESIGNED TO PRESERVE THE INTEGRITY OF STREAM CHANNELS AND MAINTAIN AND PROTECT THE PHYSICAL AND BIOLOGICAL AND CHEMICAL QUALITIES OF THE RECEIVING STREAM. THE SITE DESIGN HAS MINIMIZED THE IMPERVIOUS AREAS, MAXIMIZED THE PROTECTION OF THE EXISTING DRAINAGE FEATURES AND EXISTING VEGETATION. MINIMIZED LAND CLEARING AND GRADING AND SOIL COMPACTION, THE SITE UTILIZED CAPTURE AND REUSE SYSTEM AND

SOIL DESCRIPTIONS:

CIB - CLARKSBURG SILT LOAM, 3 TO 8 PERCENT SLOPES, HSG C

CnB - COKESBURY SILT LOAM, 3 TO 8 PERCENT SLOPES, HSG D Ho - HOLLY SILT LOAM, HSG B/D

UbB - UDORTHENTS, LIMESTONE, O TO 8 PERCENT SLOPES, HSG D WaC - WASHINGTON SILT LOAM, 8 TO 15 PERCENT SLOPES, HSG B

SOIL LIMITATIONS AND RESOLUTIONS:

ANTICIPATED PROJECT WASTES

LANDFILL FOR PROPER DISPOSAL

PROCESSING INTO MULCH.

• CUTBANKS/CAVE. STABILIZE DISTURBED AREAS WITH SEED, MULCH AND SOIL SUPPLEMENTS ON SLOPES 3:1 OR GREATÉR PROVIDE SLOPE MATTING.

CORROSIVE TO STEEL. STEEL BURIED IN CONSTRUCTION INCLUDES REBAR WHICH WILL BE ENCASED IN

 CORROSIVE TO CONCRETE. SOIL WITH HIGH SULPHATE CONTENT IS CORROSIVE TO CONCRETE. USE SULPHATE-RESISTANT BLAST-FURNACE CEMENT, COAT CONCRETE WITH BITUMEN OR USE PRECAST CONCRETE STRUCTURES WHEN CONCRETE IS BURIED.

PROJECT WASTES FROM THE PROPOSED DEVELOPMENT ARE EXPECTED TO INCLUDE SEDIMENT, TRASH, VEGETATTIVE

TRASH SHALL BE COLLECTED AND DISPOSED OF IN PROPER TRASH RECEPTACLE FOR REMOVAL TO A LOCAL

• PLASTICS SHALL BE PLACED IN RECYCLE CONTAINERS AND DISPOSED OF AT THE LOCAL RECYCLING CENTER.

THE COMPOST FILTER SOCK WILL ACT AS A FLOW THROUGH BMP AND NOT POND WATER TO HELP REDUCE THE

THERMAL IMPACTS WILL BE MINIMIZED THROUGH THE USE OF UNDERGROUND STORM SEWERS. DURING CONSTRUCTION

SEDIMENT SHALL BE REMOVED FROM PCSM BMPS, SPREAD ONSITE, AND STABILIZED WITH PERMANENT SEED AND

VEGETATIVE DEBRIS SHALL BE REMOVED FROM PCSM BMPS AND TAKEN TO THE LOCAL RECYCLING LOCATION FOR

• DROUGHTY- PROVIDE PROPER SOIL SUPPLEMENTS TO PROMOTE VEGETATIVE GROWTH.

• HYDRIC/HYDRIC INCLUSIONS - AERATE SOIL FOR VEGETATIVE GROWTH.

 SLOW PERCOLATION — AVOID COMPACTION WITHIN INFILTRATION AREAS. • FROST ACTION - LIMIT CONSTRUCTION TO NON-OBSTRUCTIVE MEASURES DURING WINTER MONTHS.

PROJECT TITLE:

E CONTRACTOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT

RECYCLING OR DISPOSAL OF MATERIALS:

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.THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.

PCSM LONG TERM OPERATIONS AND MAINTENANCE

<u>REQUIREMENTS</u> UNTIL THE PERMITTEE OR CO-PERMITTEE HAS RECEIVED WRITTEN APPROVAL OF A NOTICE OF TERMINATION, THE PERMITTEE OR CO-PERMITTEE WILL REMAIN RESPONSIBLE FOR COMPLIANCE WITH THE PERMIT TERMS AND CONDITIONS INCLUDING LONG-TERM OPERATION AND MAINTENANCE OF ALL PCSM BMPS ON THE PROJECT SITE AND IS RESPONSIBLE FOR VIOLATIONS OCCURRING ON THE PROJECT SITE THE DEPARTMENT OR CONSERVATION DISTRICT WILL CONDUCT A FINAL INSPECTION AND APPROVE OR DENY THE NOTICE OF TERMINATION WITHIN 30 DAYS.

THE PERMITTEE OR CO-PERMITTEE SHALL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPS UNLESS A DIFFERENT PERSON IS IDENTIFIED IN THE NOTICE OF TERMINATION AND HAS AGREED TO LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPS.

FOR ANY PROPERTY CONTAINING A PCSM BMP, THE PERMITTEE OR CO-PERMITTEE SHALL RECORD AN INSTRUMENT WITH THE RECORDER OF DEEDS WHICH WILL ASSURE DISCLOSURE OF THE PCSM BMP AND HE RELATED OBLIGATIONS IN THE ORDINARY COURSE OF A TITLE SEARCH OF THE SUBJECT PROPERTY. THE RECORDED INSTRUMENT MUST IDENTIFY THE PCSM BMP, PROVIDE FOR NECESSARY ACCESS RELATED TO LONG-TERM OPERATION AND MAINTENANCE FOR PCSM BMPS AND PROVIDE NOTICE THAT THE RESPONSIBILITY FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP IS A COVENANT THAT RUNS WITH THE LAND THAT IS BINDING UPON AND ENFORCEABLE BY SUBSEQUENT GRANTEES, AND PROVIDE PROOF OF FILING WITH THE NOTICE OF TERMINATION UNDER § 102.7(B)(5) (RELATING TO PERMIT TERMINATION

THE PERSON RESPONSIBLE FOR PERFORMING LONG-TERM OPERATION AND MAINTENANCE MAY ENTER INTO AN AGREEMENT WITH ANOTHER PERSON INCLUDING A CONSERVATION DISTRICT, NONPROFIT ORGANIZATION, MUNICIPALITY, AUTHORITY, PRIVATE CORPORATION OR OTHER PERSON, TO TRANSFER THE RESPONSIBILITY FOR PCSM BMPS OR TO PERFORM LONG-TERM OPERATION AND MAINTENANCE AND PROVIDE NOTICE THEREOF TO THE DEPARTMENT.

A PERMITTEE OR CO-PERMITTEE THAT FAILS TO TRANSFER LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP OR OTHERWISE FAILS TO COMPLY WITH THIS REQUIREMENT SHALL REMAIN JOINTLY AND SEVERALLY RESPONSIBLE WITH THE LANDOWNER FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPS LOCATED ON THE PROPERTY.

PERMANENT SEEDING SPECIFICATIONS: SPECIES: PA DOT FORMULA B (SLOPES 3:1 OR % PURE LIVE SEED: <u>SEE TABLE A</u>
APPLICATION RATE: <u>SEE TABLE A</u>

LIMING RATE: 6 TON/ACRE MULCH: <u>STRAW</u> MULCHING RATE: 3 TONS/ACRE 10-20-20 FERTILIZER: <u>1,000 LBS/ACRE</u> SEEDING SEASON DATES: 3/15 TO 6/1

PERMANENT-STEEP SLOPE SEEDING SPECIFICATIONS: SPECIES: PA DOT FORMULA D (SLOPES GREATER % PURE LIVE SEED: <u>SEE TABLE A</u>
APPLICATION RATE: <u>SEE TABLE A</u> LIMING RATE: 6 TON/ACRE MULCH: STRAW MULCHING RATE: 3 TONS/ACRE 10-20-20 FERTILIZER 1,000 LBS/ACRE

<u>3/15 TO 6/1</u>

SEEDING SEASON DATES:

TABLE A					
Formula and Species	% by Weight	Mi	nimum %	Max. %	Seeding Rate Ib/1000 Yd²
		Purity	Germination	Weed Seed	
Formula B					42.0 Total
* Perennial Ryegrass Mixture(Lolium perenne). A combination of improved certified varieties with no one variety exceeding 50% of the total Ryegrass component.	20	97	90	0.10	42.0 Total
* Creeping Red Fescue or Chewing Fescue. (Festuca rubra or ssp commutate) Improved and Certified)	30	97	85	0.10	
* Kentucky Bluegrass Mixture (Poa pratensis). A combination of improved certified varieties with no one variety exceeding 50% of the total Bluegrass component.	50	97	80	0.15	
Formula C					12.0 Total
* Crownvetch (Coronilla varia)* Perennial Ryegrass Mixture (Lolium multiflorum)	45 55	99 95	70+ 90	0.10 0.10	
Formula D					50.0 Total
* Tall Fescue (Festuca arundinacea var. Kentucky 31) * Creeping Red Fescue or Chewing Fescue (Festuca rubra or	60 30	96 97	85 85	0.10 0.10	
ssp commutate) Improved and Certified * Annual Ryegrass (Lolium multiforum)	10	95	90	0.10	
Formula E					10.0 Total
* Annual Ryegrass (Lolium multiflorum)	100	95	90	0.10	
Formula L * Hard Fescue Mixture (Festuca longifolia) A combination of improved certified varieties with no one variety exceeding	55	97	85	0.10	48.0 Total
50% of the total Hard Fescue component. * Creeping Red Fescue (Festuca rubra) (Improved and Certified)	35	98	85	0.10	
* Annual Ryegrass (Lolium Multiflorum)	10	95	90	0.10	
Formula W					15.0 Total
* Tall Fescue (Festuca arundinacea var. Kentucky 31) * Birdsfoot Trefoil Mixture (Lotus comiculatus)	30 10	96 92	85 80+	0.10 0.10	
* Redtop (Agrostis alba)	10	92	80	0.20	
* Virginia Wild Rye (Elymus virginicus)	24	85	70	0.20	
* Tioga Deertongue (Panicum clandestimum) * Fox Sedge (Carex vulpinoides)	14 12	95 85	80 60	0.20 0.20	
NOTE: MULCH RATE FOR INTERIM A					
+ Including hardseed and normal seedlings					

+ Including hardseed and normal seedlings

RECYCLING OR DISPOSAL OF WASTE MATERIALS

REVEGETATION/REFORESTATION TO MINIMIZE THE CHANGE IN STORMWATER RUNOFF.

ILLEGALLY BURY, DUMP, OR DISCHARGE AND BUILDING MATERIAL OR WASTES AT THE SITE.

3					
nse #0	REVISIONS			GRAPHIC SCALE:	
warehouse #023	REV. NO.	DATE	DESCRIPTION	BY	
road	1	11/08/24	PER NCCD AND CITY COMMENTS	LME	
easton	2	01/16/24	PER CITY COMMENTS	LME	
1355					
637.23					
2023/6637.23					
ام					

POTENTIAL THERMAL IMPACTS ADDRESSED

BEACON ROCK REALTY, LLC

3600 GLOVER ROAD EASTON, PA 18040

LVIP VII LOTS 53 & 54 CITY OF BETHLEHEM, NORTHAMPTON COUNTY PENNSYLVANIA

Engineering, Design, Construction Services

EPARED BY

2980 LINDEN ST., UNIT C2 BETHLEHEM, PA 18017 PHONE (484)403-1560 FAX (570)496-7021 **PCSM NOTES**

05/31/2024 JT EVIEWED BY LME AS SHOWN OJECT NO: CHECKED B 6637.23

