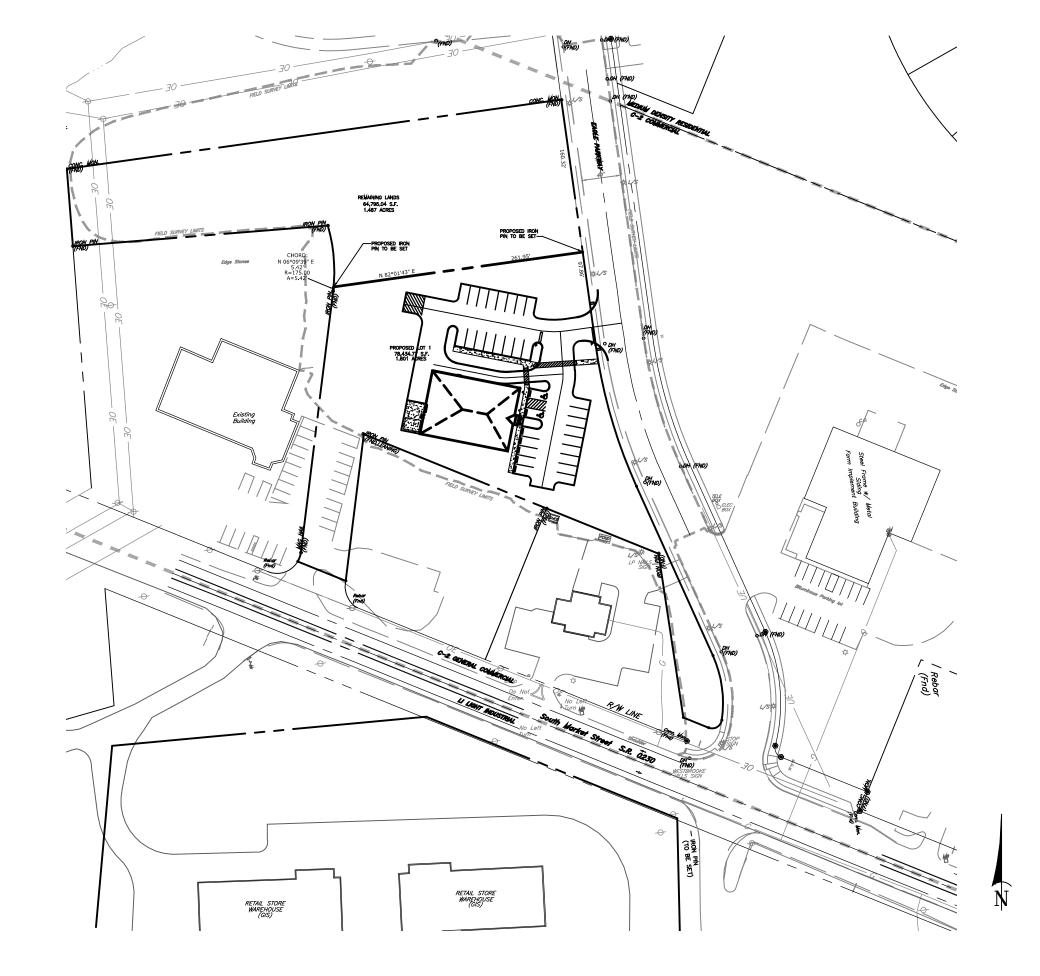
# SLOAN'S NORLANCO PHARMACY MOUNT JOY TOWNSHIP LANCASTER COUNTY, PENNSYLVANIA



# UTILITY LISTINGS

COMPANY: MOUNT JOY TOWNSHIP ADDRESS: 8853 ELIZABETHTOWN ROAD ELIZABETHTOWN, PA 17022 CONTACT: KIM KAUFMAN, MANAGER PHONE: (717) 367-7178

ELIZABETHTOWN AREA WATER AUTHORITY 211 WEST HUMMELSTOWN ST ELIZABETHTOWN, PA 17022 *717–267–7448* CONTACT: AUSTIN CALAMAN

ELIZABETHTOWN REGIONAL SEWER AUTHORITY 235 ERSA DRIVE ELIZABETHTOWN, PA 17022 717-367-5947 CONTACT: STEVE RETTEW

COMPANY: PPL ELECTRIC UTILITIES ADDRESS: 651 DELP ROAD LANCASTER, PA 17601-3034 CONTACT: OFFICE PERSONNEL EMAIL: www.pplelectric.com

NOTARY SIGNATURE

### **REQUESTED MODIFICATIONS:**

### SUBDIVISION AND LAND DEVELOPMENT ORDINANCE:

- SECTION 119-32.C.(2)- TRAFFIC STUDY SECTION 119-32.C.(6) - FEE IN LIEU OF CONTRIBUTION
- SECTION 119-52.K.(4) RADIUS AT CARTWAY EDGE
- 4. SECTION 119-52.J.(3)(A) IMPROVEMENT OF EXISTING STREETS SECTION 119-53.B(1) - SIDEWALKS
- 6. SECTION 119-53.C(1) CURBS 7. SECTION 119-62.B - TRAILS

### STORMWATER MANAGEMENT ORDINANCE

- 1. SECTION 113-32.A.2.(C) LOADING RATIOS
- 2. SECTION 113-32.D DEWATERING TIME

### TRAFFIC IMPACT FEE ORDINANCE:

1. SECTION 125 - TRAFFIC IMPACT FEE

### **ZONING DATA**

. C-2 GENERAL COMMERCIAL 3. MIN. LOT WIDTH ...... 75' AT BUILDING SETBACK LINE 6. MIN. SIDE YARD ...... 15' BUILDING, OFF-STREET PARKING/LOADING, AND STORAGE AREAS 7. MIN. REAR YARD ......... 25' BUILDING; 15' OFF-STREET PARKING/LOADING AND STORAGE AREAS

9. MAX. IMPER. COVERAGE... 65% 10. MAX. BLDG. HEIGHT...... 40'

### SITE DATA - PROPOSED LOT 1

11. PROPOSED PARKING REQUIREMENTS:

1. TOTAL LOT AREA 2. NUMBER OF LOTS 0.56 UNITS PER ACRE . C-2 GENERAL COMMERCIAL 6. EXISTING LAND USE 7. PROPOSED LAND USE 8. UNITS OF OCCUPANCY 9. PROPOSED BUILDING COVERAGE...... 6,279 S.F. (8.0%) 10. PROPOSED IMPERVIOUS COVERAGE... 33,470 S.F. (42.7%)

THE PARKING REQUIREMENT DESIGNATION WAS TAKEN FROM SECTION 135-343.C.(13) SINCE THE PHARMACY USE IS NOT SPECIFICALLY LISTED:

RETAIL STORES, EXCEPT THOSE SPECIFICALLY NAMED ABOVE, SHALL BE PROVIDED WITH ONE PARKING SPACE PER 200 SQUARE FEET OF GROSS

6,280 S.F. GROSS FLOOR AREA / 200 S.F. = 31 SPACES REQUIRED

# SITE DATA - REMAINING LANDS

2. NUMBER OF LOTS .. 3. NUMBER OF ACRES 1.487 ACRES 4. DENSITY . C-2 GENERAL COMMERCIAL 6. EXISTING LAND USE ...... 7. PROPOSED LAND USE ...... 8. UNITS OF OCCUPANCY ..... 9. PROPOSED BUILDING COVERAGE...... 0 S.F. (0%) 10. PROPOSED IMPERVIOUS COVERAGE... 0 S.F. (0%)

# TENTATIVE CONSTRUCTION SCHEDULE

FALL 2025 BEGIN SITE WORK COMPLETE GRADING SPRING 2026 COMMENCE BUILDING IMPROVEMENTS SPRING 2026 COMPLETE BUILDING AND SITE IMPROVEMENTS SPRING 2026

COMMONWEALTH OF PENNSYLVANIA

COUNTY OF LANCASTER ON THIS THE \_\_\_\_\_ DAY OF \_\_\_\_\_

BEFORE ME, THE UNDERSIGNED OFFICER, PERSONALLY APPEARED

WHO BEING DULY SWORN ACCORDING TO LAW, DEPOSES AND SAYS THAT HE IS THE OWNER OF THE PROPERTY SHOWN ON THIS PLAN, THAT THE PLAN THEREOF WAS MADE AT HIS DIRECTION, THAT HE ACKNOWLEDGES THE SAME TO BE HIS ACT AND PLAN AND DESIRES THE SAME TO BE RECORDED, AND THAT ALL STREET AND OTHER PROPERTY IDENTIFIED AS PROPOSED PUBLIC PROPERTY (EXCEPTING THOSE AREAS LABELED "NOT FOR DEDICATION") ARE HEREBY DEDICATED TO THE PUBLIC USE.

- VEGETATION, STOCKPILING OF TOPSOIL AND CONSTRUCTION OF TEMPORARY
- THE COMPLETION OF ROUGH GRADING, BUT PRIOR TO PLACEMENT OF TOPSOIL PERMANENT DRAINAGE OR OTHER SITE DEVELOPMENT IMPROVEMENTS AND GROUND
- 3. DURING THE CONSTRUCTION OF THE PERMANENT STORMWATER MANAGEMENT FACILITIES AT SUCH TIMES AS SPECIFIED BY THE ENFORCEMENT OFFICER. THIS INCLUDES INSPECTION FOR SUBGRADE PRIOR TO STONE AND PIPE PLACEMENT AND THE
- 4. THE COMPLETION OF PERMANENT STORMWATER MANAGEMENT FACILITIES, INCLUDING
- 5. THE COMPLETION OF ANY FINAL GRADING, VEGETATIVE CONTROL MEASURES OR OTHER SITE RESTORATION WORK DONE IN ACCORDANCE WITH THE PERMIT.
- 6. DESCRIPTION OF MAINTENANCE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, THE

a.REGULAR INSPECTION OF THE SWM FACILITIES. TO ASSURE PROPER IMPLEMENTATION OF BMPS MAINTENANCE AND CARE SWM BMPS SHOULD BE INSPECTED BY A QUALIFIED PERSON, WHICH MAY INCLUDE THE LANDOWNER, OF THE LANDOWNER'S DESIGNEE (INCLUDING THE MUNICIPALITY FOR DEDICATED AND OWNED FACILITIES), ACCORDING TO THE FOLLOWING MINIMUM FREQUENCIES:

i. ANNUALLY FOR THE FIRST 5 YEARS. ii. ONCE EVERY 3 YEARS THEREAFTER.

iii.DURING OR IMMEDIATELY AFTER THE CESSATION OF A 10-YEAR OR GREATER

- 1. THE APPLICANT MUST SCHEDULE CONSTRUCTION INSPECTIONS FOR ALL STORMWATER MANAGEMENT (SWM) FACILITIES WITH THE TOWNSHIP. AT THE COMPLETION OF THE PROJECT, AND AS PREREQUISITE FOR THE RELEASE C HE FINANCIAL SECURITY, THE APPLICANT SHALL PROVIDE CERTIFICATION OF COMPLETION FROM AN ENGINEER, LANDSCAPE ARCHITECT, SURVEYOR OR OTHER QUALIFIED PERSON VERIFYING THAT ALL PERMANENT SWM FACILITIES HAVE BEEN
- UPON RECEIPT OF THE CERTIFICATE OF COMPLETION, AND PRIOR TO RELEASE OF THE REMAINING FINANCIAL SECURITY THE TOWNSHIP SHALL CONDUCT A FINAL INSPECTION TO CERTIFY COMPLIANCE WITH THE ORDINANCE.
- THE LANDOWNER SHALL KEEP ON FILE WITH THE TOWNSHIP THE NAME, ADDRESS ND TELEPHONE NUMBER OF THE PERSON OR COMPANY RESPONSIBLE FOR MAINTENANCE ACTIVITIES; IN THE EVENT OF A CHANGE, NEW INFORMATION WILL BE
- THE INDIVIDUAL PROPERTY OWNER IS RESPONSIBLE FOR OWNERSHIP AND MAINTENANCE OF BOTH TEMPORARY AND PERMANENT STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL FACILITIES. THE RECORDED AGREEMENTS
- OWNERSHIP AND MAINTENANCE OF THE RESPECTIVE FACILITIES. A PRE-CONSTRUCTION MEETING IS TO BE HELD PRIOR TO EARTH MOVING ACTIVITIES AND INCLUDE PERSONNEL FROM THE FOLLOWING:
- TOWNSHIP ENGINEER • THE PROPERTY OWNER
- DC GOHN ASSOCIATES, IN
- THE SITE CONTRACTOR THE EXCAVATOR
- PUBLIC UTILITY PROVIDERS
- ALL IMPROVEMENT REQUIRING INSPECTION SHALL BE REQUESTED/SCHEDULED THROUGH TOWNSHIP OR THE AUTHORITY/AGENCY RESPONSIBLE FOR THE RESPECTIVE IMPROVEMENT BY THE OWNER AND/OR CONTRACTOR. ALL REQUESTS FOR REQUIRED
- STRUCTURAL DAMAGE OR DETERIORATION OF ANY KIND, INCLUDING THAT CAUSED BY SINKHOLES OR OTHER EVENTS. THE TOWNSHIP SHALL HAVE THE RIGHT, BUT NOT THE DUTY, TO ACCESS AT ANY TIME TO INSPECT AND MAINTAIN THE FACILITY AT THE PROPERTY OWNER'S EXPENSE IF THE OWNER SHOULD FAIL TO PROPERLY MAINTAIN

O THE BEST OF MY ABILITY I HAVE REVIEWED THE RECORDS OF THE LANCASTER CO. RECORDER OF DEEDS AND RECORDS OF D. C. GOHN ASSOCIATES, INC. AND FIND THE FOLLOWING RECORDED

RECORDED AT DOCUMENT NO. 2023-0080-J AND SUBDIVISION PLAN RECORDED AT DOCUMENT NO,

FINAL SUBDIVISION, LAND DEVELOPMENT, AND LOT ADD ON PLAN FOR WESTBROOK IV—PHASE 1

BEFORE ME, THE UNDERSIGNED OFFICER, PERSONALLY APPEARED

WHO BEING DULY SWORN ACCORDING TO LAW, DEPOSES AND SAYS THAT THE

CORPORATION IS THE \_\_EQUITABLE OWNER \_\_\_ OF THE PROPERTY SHOWN ON

ORATION, THAT THE PLAN IS THE ACT AND DEED OF THE CORPORATION, THAT THE

CORPORATION DESIRES THE SAME TO BE RECORDED AND ON BEHALF OF THE CORP-

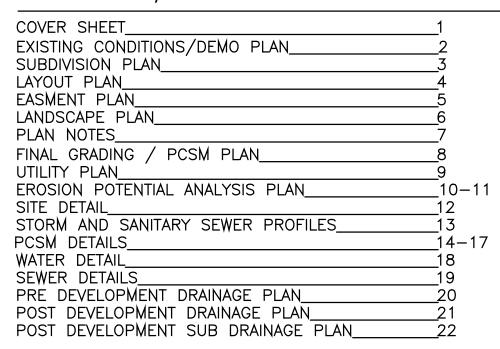
IFIED AS PROPOSED PUBLIC PROPERTY ARE HEREBY DEDICATED TO THE PUBLIC USE -

ORATION FURTHER ACKNOWLEDGE, THAT ALL STREETS AND OTHER PROPERTY IDENT-

THIS PLAN, THAT HE IS AUTHORIZED TO EXECUTE SAID PLAN ON BEHALF OF THE CORP-

# LIST OF DRAWINGS

### PRELIMINARY/FINAL LAND DEVELOPMENT PLAN



ALL PLAN SHEETS TO BE RECORDED

### LIST OF DRAWINGS

### **EROSION AND SEDIMENT CONTROL PLANS**

COVER SHEET	1
EXISTING CONDITIONS PLAN	2
EROSION AND SEDIMENT CONTROL PLAN	3
EROSION AND SEDIMENT CONTROL DETAILS	4-5

### MOUNT JOY TOWNSHIP SWM SITE PLAN APPROVAL CERTIFICATION

COMMISSION APPROVED THIS PROJECT, AND ALL CONDITIONS HAVE BEEN MET. THIS APPROVAL INCLUDES THE COMPLETE SET OF PLANS AND INFORMATION WHICH ARE FILED WITH THE TOWNSHIP IN MOUNT JOY TOWNSHIP PLANING COMMISSION FILE BASED UPON ITS CONFORMITY WITH THE STANDARDS OF

### PLANNING COMMISSION FINAL PLAN APPROVAL CERTIFICATE

AT A MEETING ON \_\_\_\_\_, 20\_\_\_, THE MOUNT JOY TOWNSHIP PLANNING COMMISSION APPROVED THIS PROJECT, INCLUDING THE COMPLETE SET OF PLANS AND INFORMATION WHICH ARE FILED WITH THE COMMISSION IN MOUNT JOY TOWNSHIP PLANNING COMMISSION FILE NO .\_ STANDARDS OF CHAPTER 119, SUBDIVISION AND LAND DEVELOPMENT.

THIS PLAN, BEARING LCPC FILE N OF THE LANCASTER COUNTY PLAN AS REQUIRED BY THE PENNSYLVAN AMENDED. THIS CERTIFICATE DOES COMPLIES WITH THE VARIOUS ORD MUNICIPALITY, THE COMMONWEALTH

\* SIGNATURE OF THE CHAIRPER

<u>STORMWATER MANAGEMENT PLAN CERTIFICATIO</u>

I HEREBY CERTIFY THAT, TO THE BEST OF

SUBDIVISION AND LAND DEVELOPMENT, AND

CERTIFICATE OF ACCURACY - PLAN

I HEREBY CERTIFY THAT, TO THE BEST OF

SHOWN AND DESCRIBED HEREON IS TRUE

BY CHAPTER 119, SUBDIVISION AND

AND CORRECT TO THE ACCURACY REQUIRED

CERTIFICATE OF ACCURACY - SURVEY

I HEREBY CERTIFY THAT, TO THE BEST OF

SHOWN AND DESCRIBED HEREON IS TRUE

BY CHAPTER 119, SUBDIVISION AND

AND CORRECT TO THE ACCURACY REQUIRED

MY KNOWLEDGE, THE PLAN

MY KNOWLEDGE, THE SURVEY

LAND DEVELOPMENT.

LAND DEVELOPMENT.

CHAPTER 113, STORMWATER MANAGEMENT.

MY KNOWLEDGE, THE STORMWATER

MANAGEMENT FACILITIES SHOWN AND

CONFORMANCE WITH CHAPTER 119,

DESCRIBED HEREON ARE DESIGNED IN

SIGNATURE

SIGNATURE

LANCASTER COUNTY PLANNING DEPARTMENT'S R N, BEARING LCPC FILE NO. ANCASTER COUNTY PLANNING DEPARTMENT ON IRED BY THE PENNSYLVANIA MUNICIPALITIES PLANN . THIS CERTIFICATE DOES NOT REPRESENT NOR GI S WITH THE VARIOUS ORDINANCES, RULES, REGULA' LITY, THE COMMONWEALTH, OR THE FEDERAL GOVE	, WAS REVIEWED BY STAFF ING CODE, ACT 247, OF 1968, AS JARANTEE THAT THIS PLAN TIONS, OR LAWS OF THE LOCAL RNMENT.			32.1	Mom	Ph-	Associates, Inc.	
GEOLOGY CERTIFICATION  I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE STORMWATER FACILITIES ARE UNDERLAIN BY CARBONATE GEOLOGY.								
	1	-20	25	ר)				

	PROJ			AND	
	CT NO.: 5139-20	JUNE 23, 2025	CHIEF: CRG		

COVER SHEET	FOR ELIMINARY/FINAL SUBDIVISION AN	LAND DEVELOPMENT PLAN	SLOAN'S NORLANCO PHARMACY	
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DRAWING #: CG-3008

SHEET #: 1 OF 22

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LOCATION MAP **GRAPHIC SCALE IN FEET** 

COMPANY: CENTURYLINK CONTACT: CUSTOMER SERVICE HTTPS://WWW.CENTURYLINK.COM/ PHONE: 1-800-244-1111

PHONE: 1-800-266-2278

PHONE: (717) 291-3000

COMPANY: COMCAST CABLE ADDRESS: MIDDLETOWN, PA 17057 CONTACT: OFFICE PERSONNEL EMAIL: www.comcast.com

WITNESS MY HAND AND SEAL THE DAY AND DATE ABOVE WRITTEN

JAMES D HILLARD, PLS

COMMONWEALTH OF PENNSYLVANIA

ON THIS, THE \_\_\_\_\_ DAY OF \_\_\_\_

COUNTY OF LANCASTER

AUTHORIZED CORPORATE SIGNATURE

(EXCEPTING THOSE AREAS LABELED "NOT FOR DEDICATION").

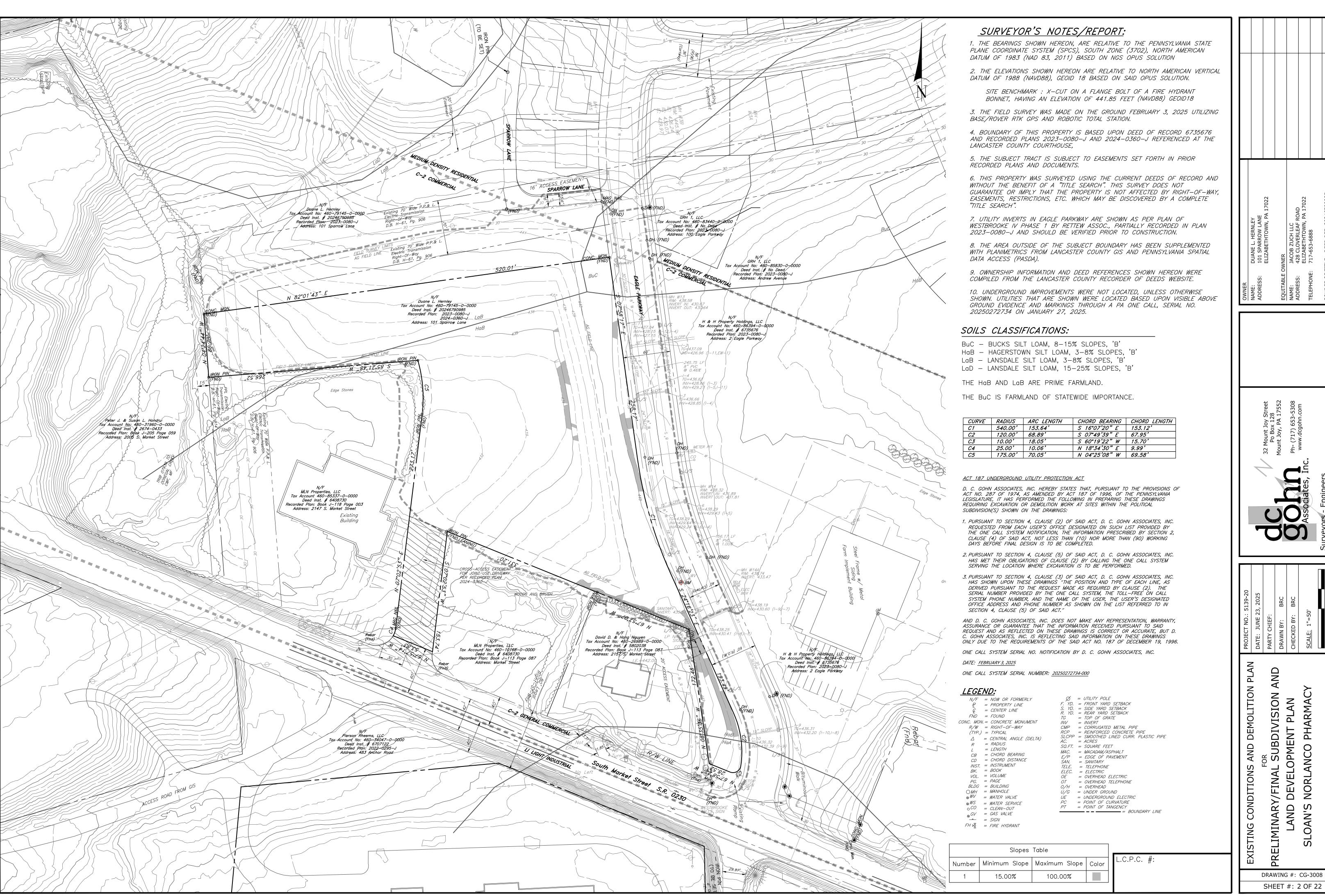
NOTARY SIGNATURE

\_\_\_\_ OF \_\_\_\_ JACOB ZUCH LLC

WITNESS MY HAND AND SEAL THE DAY AND DATE ABOVE WRITTEN

NOTARY SEAL

.C.P.C. #:

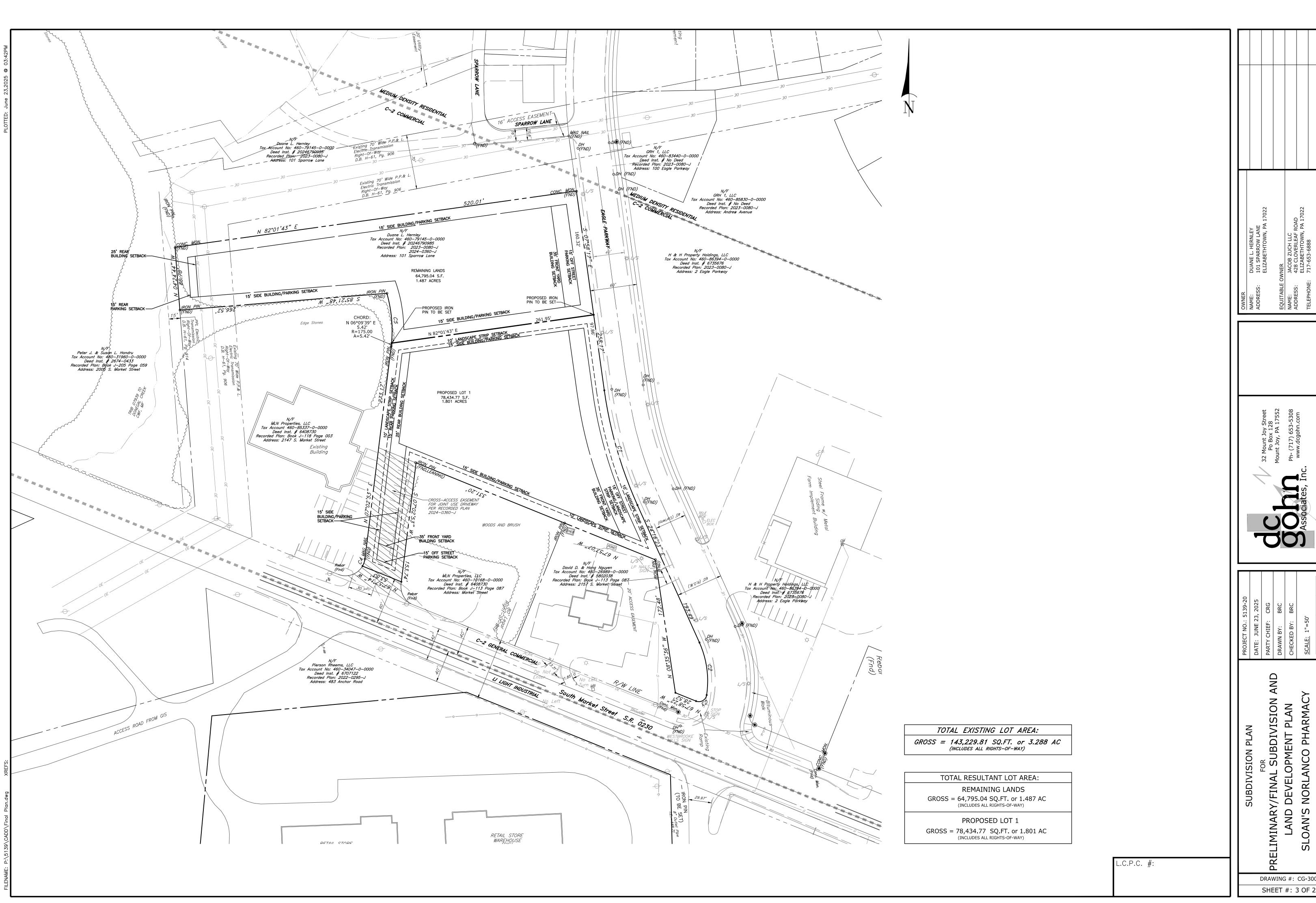


ADDRESS: 101 SPARROW LANE ELIZABETHTOWN, PA 17022 EQUITABLE OWNER  NAME: JACOB ZUCH LLC ADDRESS: 428 CLOVERLEAF ROAD ELIZABETHTOWN, PA 17022 TELEPHONE: 717-653-6888  SOURCE OF TITLE: DEED REF: 20246790985
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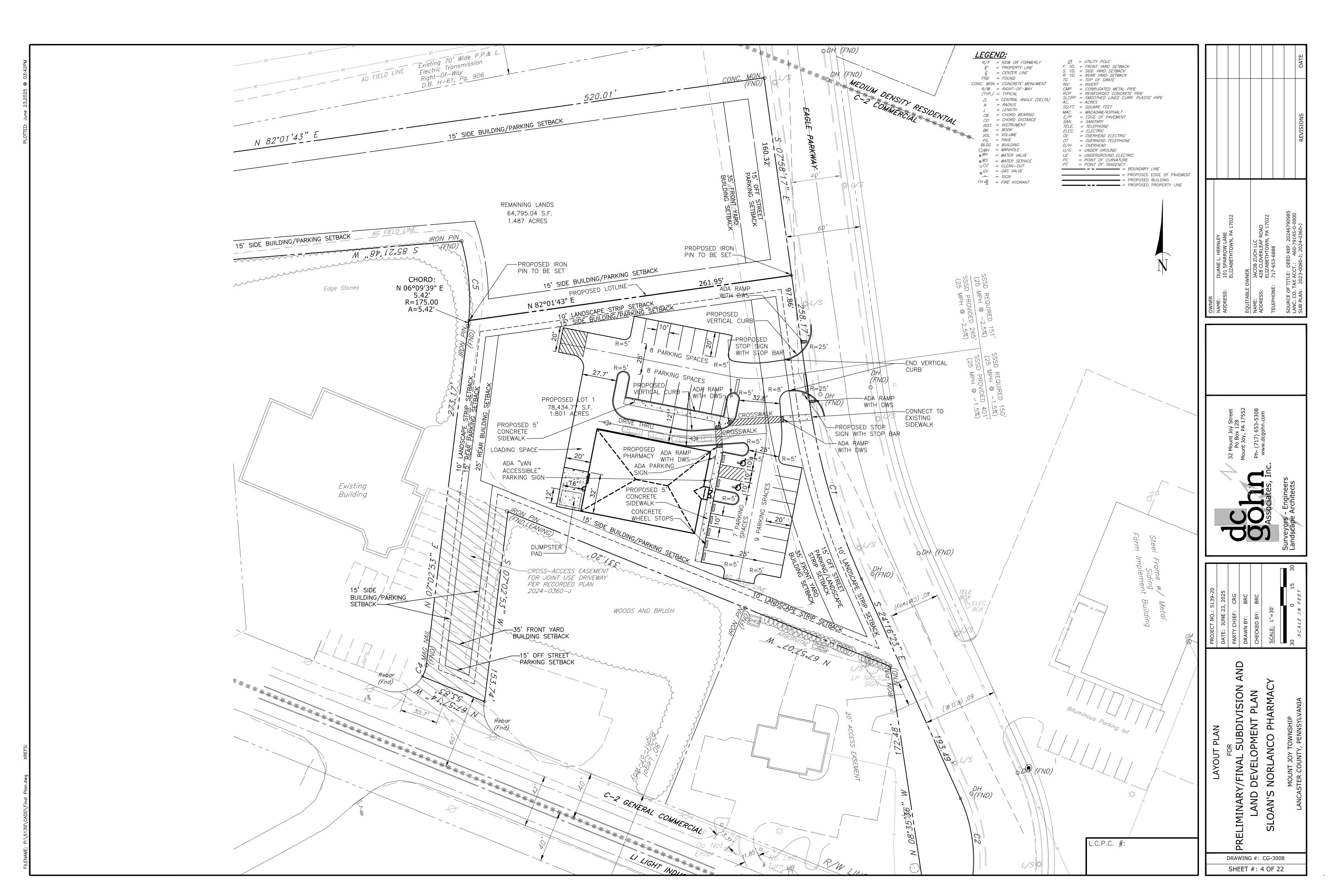
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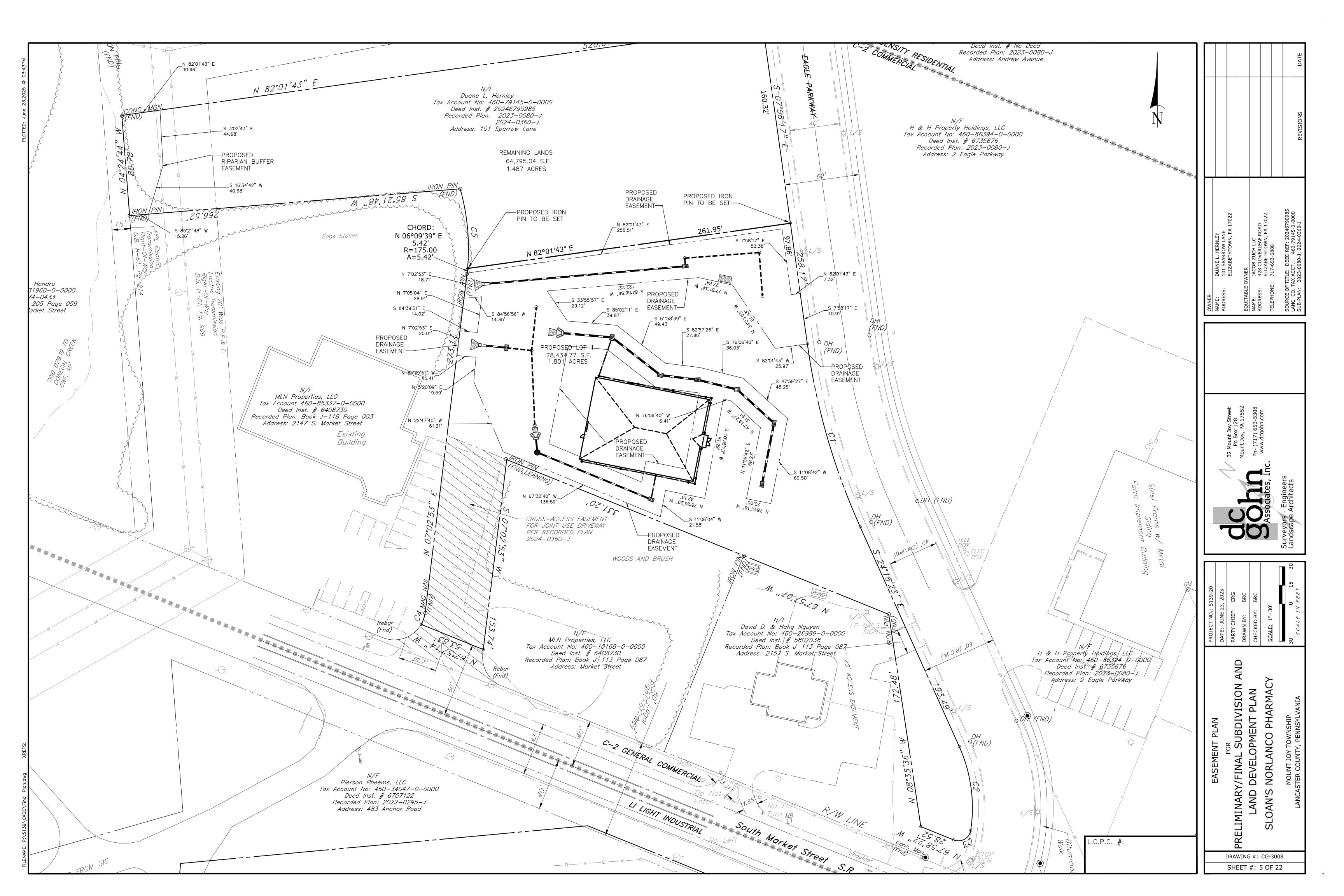
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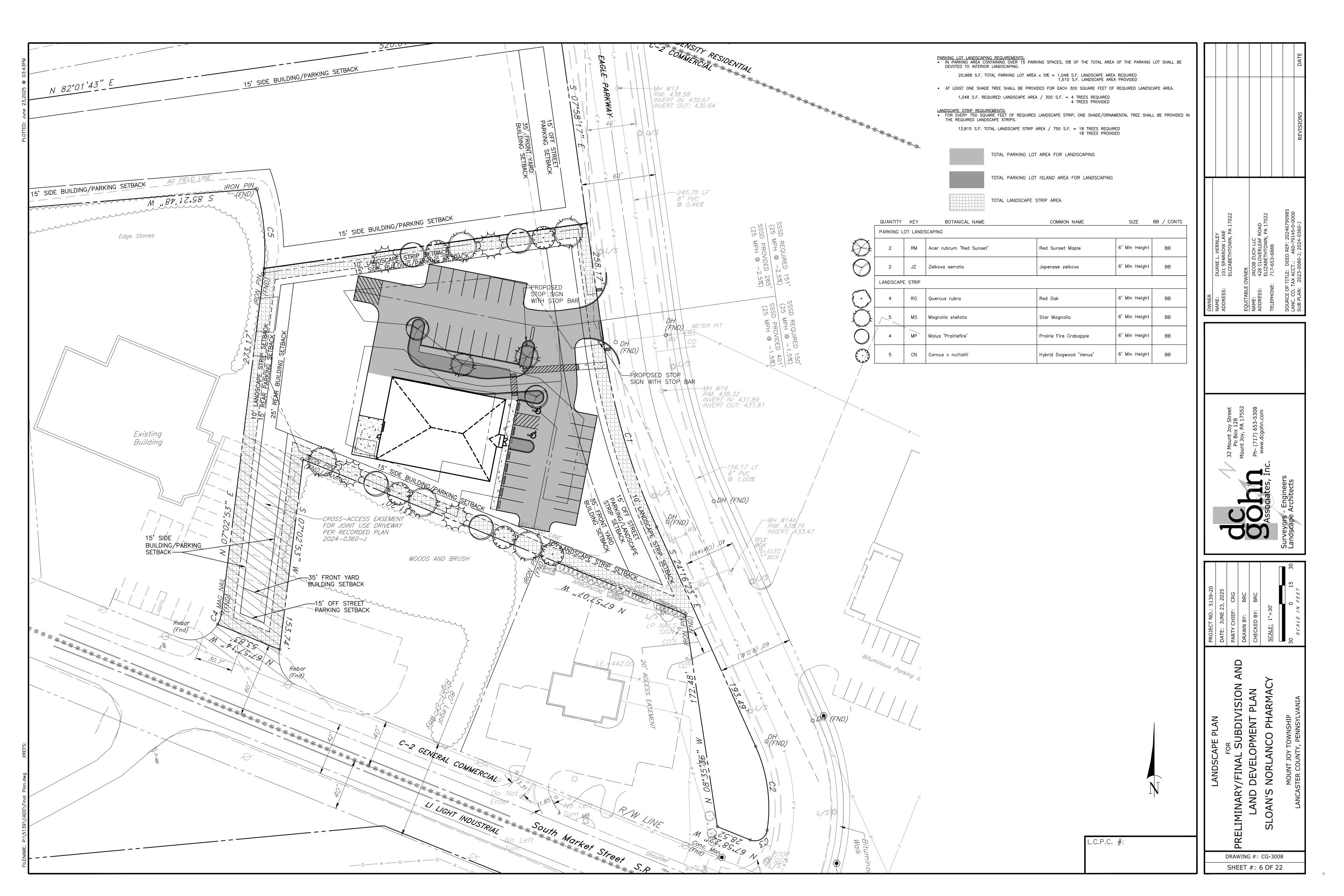


DRAWING #: CG-3008

SHEET #: 3 OF 22







- 1. THE PURPOSE OF THIS PLAN IS TO SHOW THE NEW PHARMACY BUILDING, ACCESS DRIVES, PARKING AREAS, SIDEWALKS, STORMWATER MANAGEMENT FACILITIES, UTILITIES, AND OTHER SITE IMPROVEMENTS.
- 2. THE ACCESS DRIVES ARE PRIVATE.
- 3. THE SITE IS SERVED BY PRIVATE PUBLIC SEWER BY ERSA AND PUBLIC WATER BY EAWA.
- . THIS PLAN SHOWS THE LOCATION OF RIGHT-OF-WAYS AND CARTWAYS FOR STREETS, ACCESS DRIVES, AND SERVICE STREETS AS WELL AS VISIBLE UTILITIES AND STORM WATER MANAGEMENT FACILITIES WITHIN 200 FEET OF THE SITE WHICH WERE OBSERVED BY PERSONNEL OF D. C. GOHN ASSOCIATES, INC. AS OF THE DATE OF THIS PLAN. EXACT LOCATIONS AND ROUTING OF UNDERGROUND FACILITIES MAY VARY AND MUST BE FIELD VERIFIED PRIOR TO ANY CONSTRUCTION. ANY CHANGES TO THE PROPOSED UTILITY (IE. STORMWATER MANAGEMENT) DESIGN DUE TO THE VERIFICATION OF UNDERGROUND FACILITIES SHALL BE PROVIDED TO THE TOWNSHIP FOR REVIEW AND APPROVAL.
- . ALL UNDERGROUND UTILITIES ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. THE LOCATIONS ARE APPROXIMATE AND MUST BE VERIFIED PRIOR TO CONSTRUCTION, EXCAVATION, OR BLASTING. D. C. GOHN ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR ANY DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. THE CONTRACTOR SHALL REVIEW THE PROJECT SITE PRIOR TO INITIATING WORK, AND IN ACCORDANCE WITH ACT 287/172, PRIOR TO THE START OF CONSTRUCTION SHALL REQUEST FROM EACH USER'S OFFICE THE INFORMATION PRESCRIBED BY SECTION 2, CLAUSE (4) OF SAID ACT, BEING "INFORMATION AS TO THE POSITION AND TYPE OF USER'S LINES", BASED ON THE INFORMATION CURRENTLY IN
- NOTHING SHALL BE PLACED, PLANTED, SET, OR PUT WITHIN THE AREAS OF ANY EASEMENTS THAT WOULD ADVERSELY AFFECT THE FUNCTION OF THE EASEMENT OR CONFLICT WITH THE EASEMENT AGREEMENT. ACCESS TO EASEMENTS INDICATED AS STORMWATER EASEMENTS APPLY TO LOCAL TOWNSHIP OFFICIALS OR THEIR
- 7. NO STRUCTURES, LANDSCAPING, OR GRADING MAY BE CONSTRUCTED, INSTALLED, OR PERFORMED WITHIN THE
- AREA OF THE CLEAR SIGHT TRIANGLE WHICH WOULD OBSCURE THE VISION OF THE MOTORIST. 8. CONTRACTOR TO CHECK AND VERIFY ALL EXISTING SITE CONDITIONS AND DIMENSIONS PRIOR TO
- 9. ANY REVISIONS TO THIS PLAN AFTER THE DATE OF PLAN PREPARATION OR LATEST REVISION SHALL NOT BE
- THE RESPONSIBILITY OF D. C. GOHN ASSOCIATES, INC. THE TOWNSHIP AND OWNER SHALL APPROVE ANY
- 10. AS-BUILT PLANS SHOWING ALL SITE IMPROVEMENTS, AND ANY CHANGES MADE TO APPROVED DESIGN DURING CONSTRUCTION, SHALL BE SUBMITTED TO THE TOWNSHIP FOR REVIEW AND APPROVAL.
- 11. ANY PART OR PORTION OF A SITE IN ANY DISTRICT WHICH IS NOT USED FOR BUILDING OR OTHER STRUCTURES SHALL BE PLANTED WITH AN ALL SEASON GROUND COVER. IT SHALL BE MAINTAINED TO PROVIDE AN ATTRACTIVE APPEARANCE AND ALL NON-SURVIVING PLANTS SHALL BE REPLACED PROMPTLY.
- 12. SHOULD THE PLAN BE APPROVED BY THE BOARD OF SUPERVISORS, THE APPLICANT SHALL SUBMIT THREE PAPER SETS (24"X36") AS SPECIFIED BY THE RECORDER OF DEEDS TO THE TOWNSHIP. THE APPLICANT SHALL ALSO PROVIDE THE TOWNSHIP AND TOWNSHIP ENGINEER WITH DIGITAL COPIES OF THE PLANS AFTER RECORDING. ALL SHEETS OF THIS PLAN SET SHALL BE FILED WITH THE RECORDER OF DEEDS.
- 13. ALL FINAL PLANS MUST CONFORM WITH ALL CONDITIONS OF FINAL APPROVAL AND MUST BE RECORDED WITHIN THE TIME PERIOD ESTABLISHED IN THE MUNICIPAL PLANNING CODE.
- 14. A SET OF STORMWATER MANAGEMENT SITE PLANS APPROVED BY THE TOWNSHIP SHALL BE ON FILE AT THE DEVELOPMENT SITE THROUGHOUT THE DURATION OF THE REGULATED ACTIVITY. PERIODIC INSPECTIONS MAY BE
- MADE BY THE TOWNSHIP OR DESIGNEE DURING CONSTRUCTION. 15. THERE IS A WETLAND REPORT PREPARED BY VORTEX ENVIRONMENTAL. THERE ARE NO WETLANDS IN THE
- STUDY AREA. 16. THERE IS A GEOTECHNICAL ENGINEERING REPORT PREPARED BY ECS MID-ATLANTIC LLC WHICH IS PART OF THIS PROJECT
- 17. THERE IS NO EXISTING RECORDED STORWMATER MANAGEMENT AGREEMENTS AFFECTING THE SUBJECT PROPERTIES.

### MUNICIPAL NOTES AND REQUIREMENTS:

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWNSHIP ORDINANCES OR SPECIFICATIONS AS
- 2. ALL CONSTRUCTION STANDARDS AND MATERIALS NOT SPECIFIED BY LOCAL MUNICIPAL REGULATIONS SHALL BE IN ACCORDANCE WITH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, PUBLICATION 408, LATEST EDITION AND STANDARDS FOR ROADWAY CONSTRUCTION, PUBLICATION 72, LATEST EDITION, UNLESS CERTAIN LOCAL REGULATIONS APPLY.
- 3. MAINTENANCE OF ALL DRAINAGE FACILITIES, AND DRAINAGE EASEMENTS SHALL BE THE RESPONSIBILITY OF THE LOT OWNER. THE MUNICIPALITY RESERVES THE RIGHT TO ENTER ANY EASEMENT TO MONITOR, INSPECT, OR REPAIR FACILITIES LOCATED WITHIN. ALL COSTS INVOLVED IN MAINTENANCE BY THE MUNICIPALITY SHALL BE THE RESPONSIBILITY OF THE LOT OWNERS. ALL FACILITIES MUST REMAIN AS DESIGNED AND SHOWN ON
- 4. THE MAINTENANCE OF ALL STORMWATER CONVEYANCE AND MANAGEMENT FACILITIES SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO NORMAI MAINTENANCE AS WELL AS REPAIR OF STRUCTURAL DAMAGE OR DETERIORATION OF ANY KIND, INCLUDING THA CAUSED BY SINKHOLES OR OTHER EVENTS. THE TOWNSHIP SHALL HAVE THE RIGHT, BUT NOT THE DUTY, OF ACCESS AT ANY TIME TO INSPECT AND MAINTAIN THE FACILITIES AT THE PROPERTY OWNER'S EXPENSE IF THE OWNER SHOULD FAIL TO PROPERLY MAINTAIN THE FACILITIES.
- 5. IF SUBSURFACE WATER IS ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION, THE SITE ENGINEER AND OWNER SHALL BE NOTIFIED AND THE INSTALLATION OF UNDER DRAINS SHOULD BE CONSIDERED FOR PARKING
- 6. UPON COMPLETION AND FINAL STABILIZATION OF ALL STORM WATER STORAGE AND CONTROL FACILITIES, AN AS-BUILT SURVEY AND SUPPORTING CALCULATIONS SHALL BE PREPARED AND SUBMITTED TO THE
- 7. UPON COMPLETION OF THE PLAN IMPROVEMENTS AND PRIOR TO THE RELEASE OF FINANCIAL SECURITY, THE APPLICANT SHALL SUBMIT AN AS-BUILT PLAN TO THE TOWNSHIP. THE AS-BUILT PLAN MUST SHOW THE FINAL DESIGN SPECIFICATIONS FOR ALL STORMWATER MANAGEMENT FACILITIES AND BE SEALED BY A REGISTERED

### AS-BUILT TO BE REVIEWED BY TOWNSHIP ENGINEER.

MUNICIPALITY FOR REVIEW AND ACCEPTANCE

THE AS-BUILT PLAN SHALL BE REVIEWED BY THE TOWNSHIP ENGINEER TO VERIFY THE PLAN INCLUDES ALL OF THE STORMWATER MANAGEMENT FACILITIES ON THE SUBJECT PROPERTY AND THE FACILITIES ARE

(2) THE TOWNSHIP ENGINEER SHALL EITHER APPROVE THE AS-BUILT PLAN OR IDENTIFY CORRECTIONS

IF THE TOWNSHIP ENGINEER IDENTIFIES CORRECTIONS REQUIRED TO THE AS-BUILT PLAN, THE APPLICANT SHALL SUBMIT A REVISED AS—BUILT PLAN TO THE TOWNSHIP ADDRESSING THE CORRECTIONS. FOLLOWING APPROVAL OF THE AS-BUILT PLAN BY THE TOWNSHIP ENGINEER, THE APPLICANT SHALL SUBMIT THE SWM SITE PLAN FOR RECORDATION IN THE OFFICE OF THE RECORDER OF DEEDS. RECORDING FEES WILL BE THE RESPONSIBILITY OF THE APPLICANT/DEVELOPER.

UPON COMPLETION OF RECORDING, A DIGITAL COPY OF THE AS-BUILT PLAN, THE SWM SITE PLAN SIGNED AND SEALED WITH THE RECORDING INFORMATION AND CALCULATIONS, WAIVER REQUESTS AND OTHER DOCUMENTS SHALL BE SUBMITTED TO THE TOWNSHIP ALONG WITH ONE PAPER COPY OF THE RECORDED PLAN.

THE DIGITAL INVENTORY SHALL BE IN AN ELECTRONIC FORMAT ACCEPTABLE TO THE TOWNSHIP

(2) ALL COORDINATES AS DEPICTED ON THE PLAN SHALL BE BASED ON THE PA SOUTH ZONE STATE PLAN COORDINATE SYSTEM (NAD83 FOR HORIZONTAL AND NAVD88 FOR VERTICAL).

### **CONTRACTOR NOTES:**

- 1. AREAS DISTURBED BY CONSTRUCTION AND NOT TO BE COVERED BY IMPERVIOUS SURFACES OR LANDSCAPING SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS AS LISTED WITHIN THE SEDIMENTATION AND EROSION CONTROL
- 2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND INFORMATION SHOWN ON THIS PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES WHICH ARISE BEFORE AND DURING CONSTRUCTION SHALL BE CONVEYED TO THE OFFICERS OF D. C. GOHN ASSOCIATES, INC. AND NO CONSTRUCTION SHALL COMMENCE OR CONTINUE UNTIL THE DISCREPANCY IS VERIFIED AND REMEDIED. D. C. GOHN ASSOCIATES, INC. WILL ASSUME NO RESPONSIBILITY OR LIABILITY FOR THE CONTRACTOR'S FAILURE TO PERFORM THE ABOVE.
- 3. THE CONTRACTOR SHALL MAINTAIN A SAFE FLOW OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING CONSTRUCTION WITHIN THE SITE AND THE EXISTING ROAD RIGHTS-OF-WAY WHILE ENTERING AND LEAVING THE SITE. SIGNS, MARKINGS, AND FLAG PERSONNEL SHALL BE REQUIRED AS NECESSARY TO ACHIEVE SITE SAFETY.
- 4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE TOWNSHIP, COUNTY, STATE, ETC. AS REQUIRED AND AS IT RELATES TO CONSTRUCTION ACTIVITY BEING UNDERTAKEN PRIOR TO COMMENCING CONSTRUCTION ON THE PROJECT SITE OR
- 5. THE CONTRACTOR IS RESPONSIBLE TO INSTALL THE CURB RAMPS, SIDEWALK AND DRIVEWAY APRONS TO THE LATEST ADA OR PENNDOT STANDARDS AT THE TIME OF CONSTRUCTION.

### MISCELLANEOUS:

- 1. THIS PLAN IS NOT TO BE CONSTRUED AS AN ENVIRONMENTAL AUDIT/ASSESSMENT PLAN. THIS PLAN MAKES NO WARRANTY OR GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ENVIRONMENTAL CONDITIONS OF THE PREMISES HEREON DESCRIBED. I.E., THE DETECTION OF SURFACE OR SUBSURFACE CONTAMINANTS AS DEFINED IN D.E.R. TITLE 25-PA CODES 71, 101, 271, 273, 275, 27, 279, 281, 283, AND 285.
- 2. ANY REVISIONS TO THIS PLAN AFTER THE DATE OF THE PLAN PREPARATION OR LATEST REVISION SHALL NOT BE THE RESPONSIBILITY OF D. C. GOHN ASSOCIATES, INC. SUBSTITUTIONS FOR ANY MATERIAL NOTED ON THESE PLANS REQUIRES PRIOR WRITTEN APPROVAL OF D. C. GOHN ASSOCIATES, INC.
- 3. CONTRACTOR IS TO TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE RESULTING FROM HIS NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT HIS EXPENSE.
- 4. CONTRACTOR IS TO BE RESPONSIBLE FOR ALL TRAFFIC CONTROL, TRENCH BARRICADING, COVERING, SHEETING, AND SHORING.
- 5. CONTRACTOR SHALL COORDINATE UNDERGROUND ELECTRICAL, TELECOMMUNICATIONS, GAS, AND OTHER UTILITY PROVIDER SERVICE AS APPLICABLE.
- 6. D. C. GOHN ASSOCIATES, INC. MAKES NO REPRESENTATION AS TO THE SUBSURFACE CONDITIONS OF THE PROJECT SITE AREA (I.E., THE EXISTENCE OR DEPTH OF ROCK, WATER TABLE, SOIL CONDITIONS, UTILITIES, ETC.).

### STORM DRAINAGE NOTES:

- 1. MAINTENANCE OF ALL INFILTRATION BEDS, STORMWATER BMP'S, AND STRUCTURES WITHIN EASEMENTS SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE INDIVIDUAL LOT OWNER. THE LOCAL MUNICIPAL OFFICIALS RESERVE THE PERPETUAL RIGHT TO ENTER ANY EASEMENT TO MONITOR, INSPECT, OR REPAIR FACILITIES LOCATED WITHIN. ALL COSTS INVOLVED IN MAINTENANCE BY THE LOCAL MUNICIPAL OFFICIALS SHALL BE THE RESPONSIBILITY OF THE LOT OWNERS. ALL FACILITIES MUST REMAIN AS DESIGNED AND SHOWN ON THE PLAN.
- 2. ALL STORM WATER MANAGEMENT FACILITIES SHALL BE KEPT FREE OF STRUCTURES, FILL, AND OTHER ENCROACHMENTS.
- NOTHING EXCEPT EROSION CONTROL AND/OR STORM WATER MANAGEMENT FACILITIES SHALL BE PLACED, PLANTED, OR PUT WITHIN THE AREA OF A STORM WATER MANAGEMENT EASEMENT. NOTHING SHALL BE PLACED, PLANTED, SET, OR PUT WITHIN THE AREA OF AN EASEMENT THAT WOULD ADVERSELY AFFECT THE FUNCTION OF THE EASEMENT OR CONFLICT. WITH THE EASEMENT AGREEMENT.
- 4. THE PROPERTY OWNER, SUCCESSOR, AND ASSIGNS SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL STORM WATER MANAGEMENT FACILITIES TO ENSURE THAT THEY ARE KEPT IN GOOD WORKING ORDER IN ACCORDANCE WITH THE APPROVED O&M PLAN.
- CONSTRUCTION OF STORM WATER MANAGEMENT AND EROSION CONTROL FACILITIES SHALL BE IN ACCORDANCE WITH THE TOWNSHIP AND LANCASTER COUNTY CONSERVATION DISTRICT STANDARDS AND SPECIFICATIONS.
- 6. EASEMENT CONFLICTS PROHIBITED: NOTHING SHALL BE PLACED, PLANTED, SET, OR PUT WITHIN THE AREA OF ANY EASEMENT THAT WOULD ADVERSELY AFFECT THE FUNCTION OF THE EASEMENT. NO PERSON SHALL PLACE ANY STRUCTURE, FILL, LANDSCAPING, OR VEGETATION INTO A STORM WATER MANAGEMENT FACILITY OR WITHIN A DRAINAGE EASEMENT WHICH WILL LIMIT OR ALTER THE FUNCTIONS OF THE FACILITY OR EASEMENT IN ANY WAY.
- 7. STORM WATER MANAGEMENT FOR THE PROJECT IS PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWNSHIP STORM WATER MANAGEMENT ORDINANCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY GRADING THE SITE TO CONFORM TO THE GENERAL DRAINAGE PATTERNS SHOWN ON THE APPROVED PLANS. GRADING TO PROVIDE SHEET FLOW OF STORM WATER RUNOFF SHALL BE ENCOURAGED AND GRADING WHICH PROMOTES CONCENTRATION OF RUNOFF SHALL BE AVOIDED EXCEPT AS CALLED FOR ON THE APPROVED PLANS.
- NO PERSON SHALL MODIFY, REMOVE, FILL, LANDSCAPE OR ALTER STORM WATER MANAGEMENT FACILITIES AND/OR BMP FACILITIES WHICH MAY HAVE BEEN INSTALLED ON A PROPERTY UNLESS A STORM WATER MANAGEMENT PERMIT HAS BEEN OBTAINED TO PERMIT SUCH MODIFICATION, REMOVAL. FILLING, LANDSCAPING OR ALTERATION. NO PERSON SHALL PLACE ANY STRUCTURE, FILL LANDSCAPING OR VEGETATION INTO A STORM WATER MANAGEMENT FACILITY, A BMP FACILITY OR WITHIN A DRAINAGE
- 10. ANY DRAINAGE EASEMENT PROHIBITS EXCAVATION, THE PLACING OF FILL OR STRUCTURE AND ANY ALTERATION THAT MAY ADVERSELY AFFECT THE FLOW OF STORM WATER WITHIN ANY PORTION OF THE
- 11. NO PERSON SHALL MODIFY, REMOVE, FILL, LANDSCAPE, OR ALTER ANY EXISTING STORM WATER BMP UNLESS IT IS PART OF AN APPROVED MAINTENANCE PROGRAM WITHOUT THE WRITTEN APPROVAL OF THE TOWNSHIP.
- 12. THE TOWNSHIP IS NOT RESPONSIBLE FOR MAINTENANCE OF ANY AREA NOT DEDICATED TO AND ACCEPTED FOR PUBLIC USE.
- 13. IF SUBSURFACE WATER IS ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION, THE SITE ENGINEER AND OWNER SHALL BE NOTIFIED AND THE INSTALLATION OF UNDER DRAINS SHOULD BE CONSIDERED
- 14. IF SINKHOLES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP AND DC GOHN IMMEDIATELY.
- 15. THE MAINTENANCE OF ALL STORMWATER CONVEYANCE AND MANAGEMENT FACILITIES SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO NORMAL MAINTENANCE AS WELL AS REPAIR OF STRUCTURAL DAMAGE OR DETERIORATION OF ANY KIND, INCLUDING THA CAUSED BY SINKHOLES OR OTHER EVENTS. THE TOWNSHIP SHALL HAVE THE RIGHT, BUT NOT THE DUTY, OF ACCESS AT ANY TIME TO INSPECT AND MAINTAIN THE FACILITY AT THE PROPERTY OWNER'S EXPENSE IF THE OWNER SHOULD FAIL TO PROPERLY MAINTAIN THE FACILITY.
- 16. AN AS-BUILT PLAN MEETING ALL OF THE REQUIREMENTS OF THE TOWNSHIP STORMWATER MANAGEMENT ORDINANCE MUST BE SUBMITTED PRIOR TO FINAL APPROVAL OF THE INSTALLED IMPROVEMENTS.
- 17. AN EROSION AND SEDIMENT CONTROL PLAN AND NARRATIVE FOR SLOAN'S NORLANCO PHARMACY, PREPARED BY DC GOHN ASSOCIATES IS PART OF THIS PROJECT.
- 18. A POST CONSTRUCTION STORMWATER MANAGEMENT REPORT AND ASSOCIATED DRAINAGE MAPS FOR SLOAN'S NORLANCO PHARMACY, PREPARED BY DC GOHN ASSOCIATES, IS PART OF THIS PROJECT.
- 19. WATERTIGHT JOINTS SHALL BE PROVIDED WHERE PIPE SECTIONS ARE JOINED.
- 20. THE BIORETENTION BASIN 1 IS DESIGNED FOR 18,534 SQUARE FEET OF IMPERVIOUS AREA AND BIORETENTION BASIN 2 IS DESIGNED FOR 8,876 SQUARE FEET OF IMPERVIOUS AREA.
- 21. THE TOWNSHIP SHALL HAVE THE RIGHT OF ENTRY FOR THE PURPOSES OF INSPECTING ALL STORMWATER CONVEYANCE, TREATMENT, OR STORAGE FACILITIES.

# WATER DISTRIBUTION/SERVICE:

- 1. ALL WATER LINE CROSSINGS SHALL HAVE 18" MINIMUM VERTICAL CLEARANCE BETWEEN PIPES. ALL CROSSINGS WHICH HAVE LESS THAN 18" CLEARANCE SHALL BE CONCRETE ENCASED. A 10' SEPARATION SHALL BE MAINTAINED BETWEEN ANY UTILITY LINE AND THE OUTSIDE WALL OF ALL MANHOLES AND INLETS. WHEN WATER LINE CROSSES SANITARY SEWER, ENCASE THE SANITARY SEWER. WHEN WATER LINE CROSSES
- STORM SEWER, ENCASE THE WATER LINE. 2. A MINIMUM OF 4' OF COVER IS REQUIRED OVER ALL WATER LINES. THE CONTRACTOR IS RESPONSIBLE FOR ALL TESTING AND "RECORD DRAWINGS" PER WATER AUTHORITY
- 4. ALL PROPOSED WATER IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE ELIZABETHTOWN AREA WATER AUTHORITY CONSTRUCTION SPECIFICATIONS. 5. 95% FILL COMPACTION IS REQUIRED FOR ALL WATER DISTRIBUTION FACILITIES LOCATED IN FILL MATERIAL, WATER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF 5 FEET OUTSIDE OF RIGHT-OF-WAY LINE. F OTHER UTILITIES EXIST OR ARE TO BE PLACED ALONG THE RIGHT—OF—WAY, INSTALL WATER SERVICE
- LATERAL A MINIMUM OF 5 FEET FROM THESE UTILITIES. 7. CONTRACTOR TO CONTACT ELIZABETHTOWN AREA WATER AUTHORITY, THREE (3) DAYS PRIOR TO INSTALLING THE WATER SERVICE.
- 8. CORPORATION COMPRESSION TYPE BY MUELLER
- 9. SERVICE CONNECTION- TYPE K COPPER 10. CURB STOP MUELLER
- 1. CURB BOX BY B & T 12. FIRE HYDRANTS - MUELLER 423A

# 13. GATE VALVES - AMERICAN FLOW CONTROL

AUTHORITY REGULATIONS.

SANITARY SEWER: I. ALL SANITARY SEWER CROSSINGS SHALL HAVE 18" MINIMUM VERTICAL CLEARANCE BETWEEN PIPES. ALL CROSSINGS WHICH HAVE LESS THAN 18" CLEARANCE SHALL BE CONCRETE ENCASED. A 10' SEPARATION SHALL BE MAINTAINED BETWEEN ANY UTILITY LINE AND THE OUTSIDE WALL OF ALL MANHOLES AND INLETS. SANITARY SEWER SHALL ALWAYS BE THE LINE ENCASED.

2. THE PLACEMENT (DEPTH) OF THE PROPOSED SANITARY SEWER FACILITIES WITHIN THIS SITE SHOULD PROVIDE FOR ADEQUATE DRAINAGE FOR THE PROPOSED BUILDING, PRECAUTIONS SHOULD BE TAKEN DURING CONSTRUCTION TO ENSURE THAT PROPER SANITARY SEWER SERVICE IS PROVIDED FOR EACH LOT. 3. MINIMUM OF 4' OF COVER IS REQUIRED OVER ALL SEWER LINES. THE SEWER MAIN SHALL BE CONSTRUCTED TO THE LINE AND GRADE SHOWN ON THE PLANS. 4. THE CONTRACTOR IS RESPONSIBLE FOR ALL FIELD TESTING AND "RECORD DRAWINGS" PER THE ELIZABETHTOWN REGIONAL SEWER AUTHORITY REQUIREMENTS. 5. THE INVERT ELEVATIONS OF SANITARY SEWER MANHOLES ARE SHOWN AT THE CENTER OF THE MANHOLES. POSITIVE SLOPE THROUGH THE MANHOLE IS TO BE PROVIDED TO EQUAL THE SLOPE NOTED ON THE ADJOINING PIPE SECTIONS. 6. PROPOSED SEWER MAINS AND LATERALS WITHIN THE STREET OR OTHER DESIGNATED RIGHT-OF-WAYS SHALL BE DEDICATED TO THE AUTHORITY. 7. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH ELIZABETHTOWN REGIONAL SEWER AUTHORITY (ERSA). ALL PIPE JOINTS TO BE CONSTRUCTED ACCORDING TO ERSA SPECIFICATIONS. 8. 95% FILL COMPACTION IS REQUIRED FOR ALL SANITARY SEWER FACILITIES LOCATED IN FILL MATERIAL.

ANY AND ALL ABANDONMENT OR MODIFICATION TO THE ELIZABETHTOWN REGIONAL SEWER AUTHORITY'S SANITARY SEWER SYSTEM MUST BE COORDINATED WITH THE AUTHORITY. 11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SANITARY SEWER FLOW DURING CONSTRUCTION. WHERE THE SANITARY SEWER LINE DEPTH IS GREATER THAN 15 FT., THE SANITARY SEWER LINE SHALL BE DIËL, AS SHOWN ON THE PLANS. THE UPSTREAM AND DOWNSTREAM MANHOLES OF A DIËL LINE SHAL BE LINED WITH PVC OR SIMILAR LINER SYSTEM, AS APPROVED BY ELIZABETHTOWN REGIONAL SEWER AUTHORITY. 13. ALL MANHOLES WITHOUT WATER TIGHT FRAMES AND COVERS IN AREA OUTSIDE ROAD RIGHT-OF-WAY SHALL BE SET 6" - 12" ABOVE THE FINAL GRADE IN ACCORDANCE WITH ELIZABETHTOWN REGIONAL SEWER

14. SANITARY SEWER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY AND/OR 18 INCHES VERTICALLY FROM ALL OTHER UTILITIES. WHEN THESE CLEARANCES ARE NOT FEASIBLE, CONCRETE ENCASEMENT OF THE SEWER MAIN IS REQUIRED. SANITARY SEWERS SHALL BE INSTALLED BELOW WATER

9. ALL SANITARY SEWER LINES SHALL BE SDR-35, UNLESS OTHERWISE NOTED AS DUCTILE IRON,

## ENVIRONMENTAL DUE DILIGENCE AND CLEAN FILL MATERIAL

- 1. 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 RE-USE.)
- 2. INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY 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 SUBJECTED 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 DEPARTMENT'S POLICY "MANAGEMENT OF FILL."
- 3. 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.
- 4. 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 SEQ. 271.1., AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE. IT IS ANTICIPATED THAT THE PROJECT SITE WILL CONTAIN BUILDING WASTE SUCH AS EXCESS BUILDING MATERIALS, CONCRETE, CARDBOARD, AND OTHER MATERIALS.

### SOILS LIMITATIONS AND RESOLUTIONS

- 1. THE RESOLUTION FOR THE ON-SITE SOILS IS TO PROVIDE THE PROPER COMPACTION IN FILL AREAS. EROSION IS SLIGHT AND WILL BE CONTROLLED BY MATTING AND PERMANENT SEEDING. VEGETATED SWALES WILL BE CONSTRUCTED WITH A MINIMUM 6" TOPSOIL, IMMEDIATELY SEEDED AND STABILIZED TO PREVENT EROSION AND ENCOURAGE GERMINATION. ONCE THE SEDIMENT TRAP IS CONVERTED TO A PERMANENT STORMWATER BASIN, PLACE 6" TOPSOIL OVER DISTURBED AREAS, PERMANENTLY SEED AND STABILIZE IMMEDIATELY.
- IN ALL AREAS TO RECEIVE FILL, THE EXISTING OVER-BURDEN SHALL BE STRIPPED OF TOPSOIL, ORGANIC MATERIALS, EXISTING PAVEMENTS, AND OTHER UNSUITABLE MATERIALS. IN AREAS WHERE UNSUITABLE MATERIAL SHALL BE REMOVED, STRUCTURAL FILL SHALL BE PLACED IN HORIZONTAL LOOSE LIFTS, NOT EXCEEDING 8 INCHES, AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY FOR THE MATERIAL AS DETERMINED BY THE MODIFIED PROCTOR COMPACTION TEST (ASTM D-1557). THE MOISTURE CONTENT OF THE MATERIAL SHALL BE WITHIN 2 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT FOR THE MATERIAL AS DETERMINED BY THE MODIFIED PROCTOR COMPACTION TEST. WHERE HAND-OPERATED COMPACTION EQUIPMENT IS USED, THE MAXIMUM LOOSE LIFT THICKNESS SHALL BE 4 INCHES. IN GREEN OR NON-STRUCTURAL FILL AREAS, THE NATIVE ON SITE SOILS SHALL BE COMPACTED TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY AND WITHIN ±4% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST
- 3. IN AREAS WHERE WEATHERED BEDROCK IS EXPOSED OR PRESENT AT THE BOTTOM OF AN INFILTRATION AREA OR STRUCTURE, A NON-WOVEN GEOTEXTILE FABRIC (60Z/SY, MIN.) SHALL BE PLACED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS ABOVE THE WEATHERED ROCK AND PRIOR TO THE PLACEMENT OF ANY OVERLYING AGGREGATE, COVER SOILS, OR TOPSOIL. IF SIGNIFICANT VOID SPACES OR VOID SPACES LARGER THAN 0.50 INCHES ARE PRESENT, AASHTO #57 CLEAN WASHED STONE, OR OTHER RELATIVELY HIGH PERMEABILITY WELL-GRADED STONE APPROVED BY THE ENGINEER, SHALL BE PLACED AND COMPACTED ACROSS THE AREA PRIOR TO THE PLACEMENT OF THE GEOTEXTILE FILTER FABRIC.
- 4. IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION, THE GROUNDWATER MUST BE PUMPED INTO A PUMPED WATER FILTER BAG PRIOR TO BEING
- DISCHARGED. REFER TO THE PUMPED WATER FILTER BAG DETAIL. 5. CARE SHOULD BE TAKEN TO MINIMIZE EXCESSIVE ROCK DISTURBANCE TO THE EXTENT PRACTICAL. IF ROCK REMOVAL IS REQUIRED BELOW STORMWATER MANAGEMENT FACILITIES, ROADS OR FOUNDATIONS, ROCK SHALL BE REMOVED TO A DEPTH OF AT LEAST TWO FEET BELOW THE FINAL DESIGN GRADES, AND THE SUBGRADE SHALL BE RESTORED WITH APPROVED STRUCTURAL FILL OR COMPACTED AGGREGATE. IF THE BEDROCK SURFACE IS HIGHLY FRACTURED OR IF VOID SPACES ARE ENCOUNTERED, THE AREA SHALL BE STABILIZED WITH A GEOTEXTILE FABRIC AND/OR AGGREGATE FILTER PRIOR TO BACKFILLING SO AS TO RESTRICT SOIL MIGRATION INTO THE UNDERLYING BEDROCK. SPECIFIC MITIGATION MEASURES SHOULD BE DESIGNED AND IMPLEMENTED UNDER THE OVERSIGHT AND DIRECTION OF A

CRITICAL STAGES OF THE PCSM BMP INSTALLATION CONTRACTOR TO COORDINATE WITH DC GOHN BEFORE CONSTRUCTION AND INSTALLATION OF THE BIORETENTION BASIN 1 AND 2 IN ORDER TO HAVE THE DESIGN CONSULTANT ON SITE TO OBSERVE THE INSTALLATION AND CONSTRUCTION OF THE PROPOSED BMP'S. ALL BMP'S TO BE INSPECTED BY A LICENSED PROFESSIONAL.

### BIORETENTION BASIN 1

- OBSERVE INSTALLATION OF OUTLET CONTROL STRUCTURE. OBSERVE SUBGRADE OF BASIN PRIOR TO PLACEMENT OF SOIL AMENDED AREAS. OBSERVE SOIL AMENDED AREA SOIL MIXTURE PRIOR TO
- PLACEMENT.

QUALIFIED PROFESSIONAL DURING CONSTRUCTION.

OBSERVE INSTALLATION OF SOIL AMENDED AREA. 5. REVIEW SEED MIX.

# BIORETENTION BASIN 2:

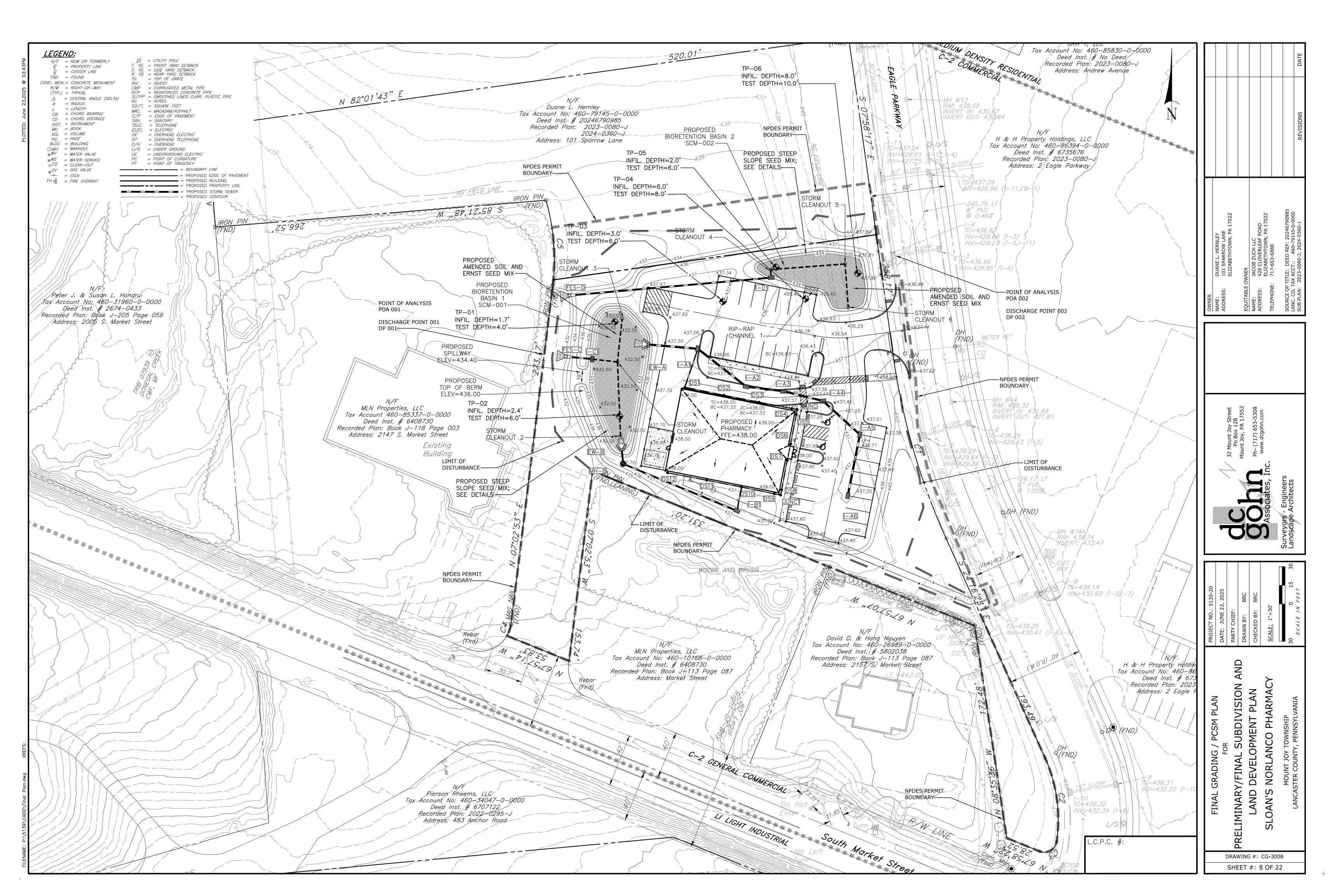
- OBSERVE INSTALLATION OF OUTLET CONTROL STRUCTURE OBSERVE SUBGRADE OF BASIN PRIOR TO PLACEMENT OF SOIL AMENDED AREAS. OBSERVE SOIL AMENDED AREA SOIL MIXTURE PRIOR TO
- PLACEMENT. OBSERVE INSTALLATION OF SOIL AMENDED AREA.
- 5. REVIEW SEED MIX.

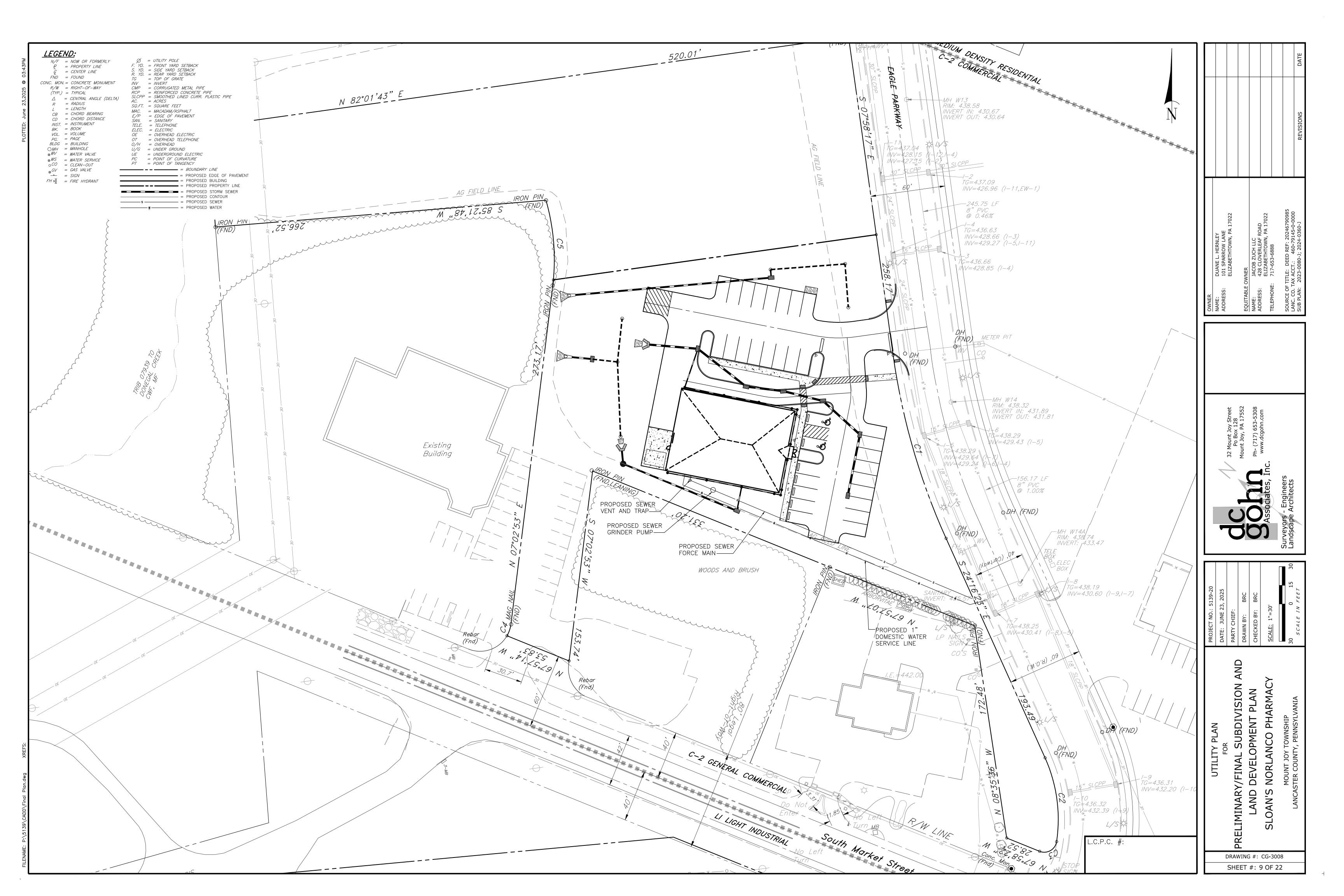
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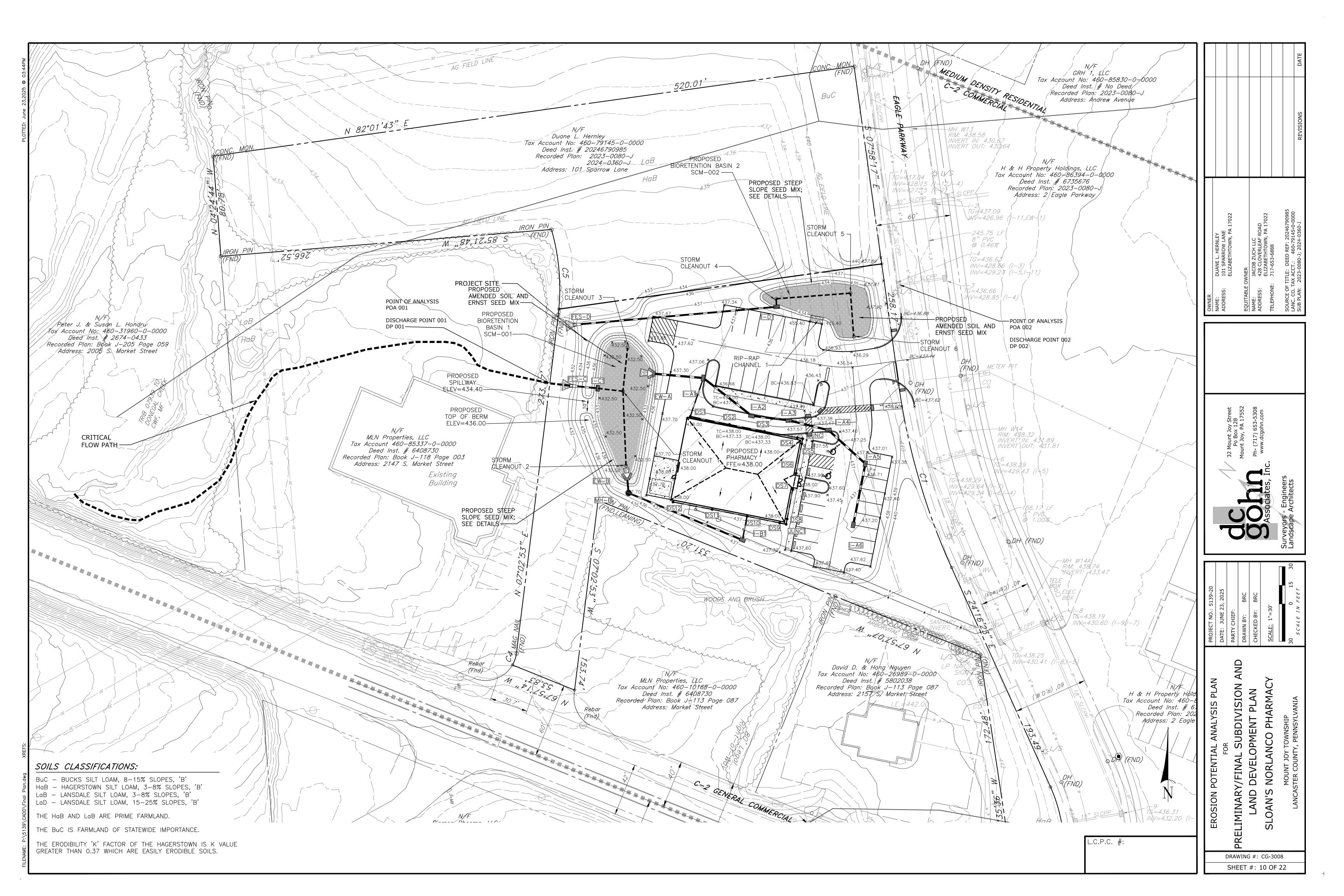
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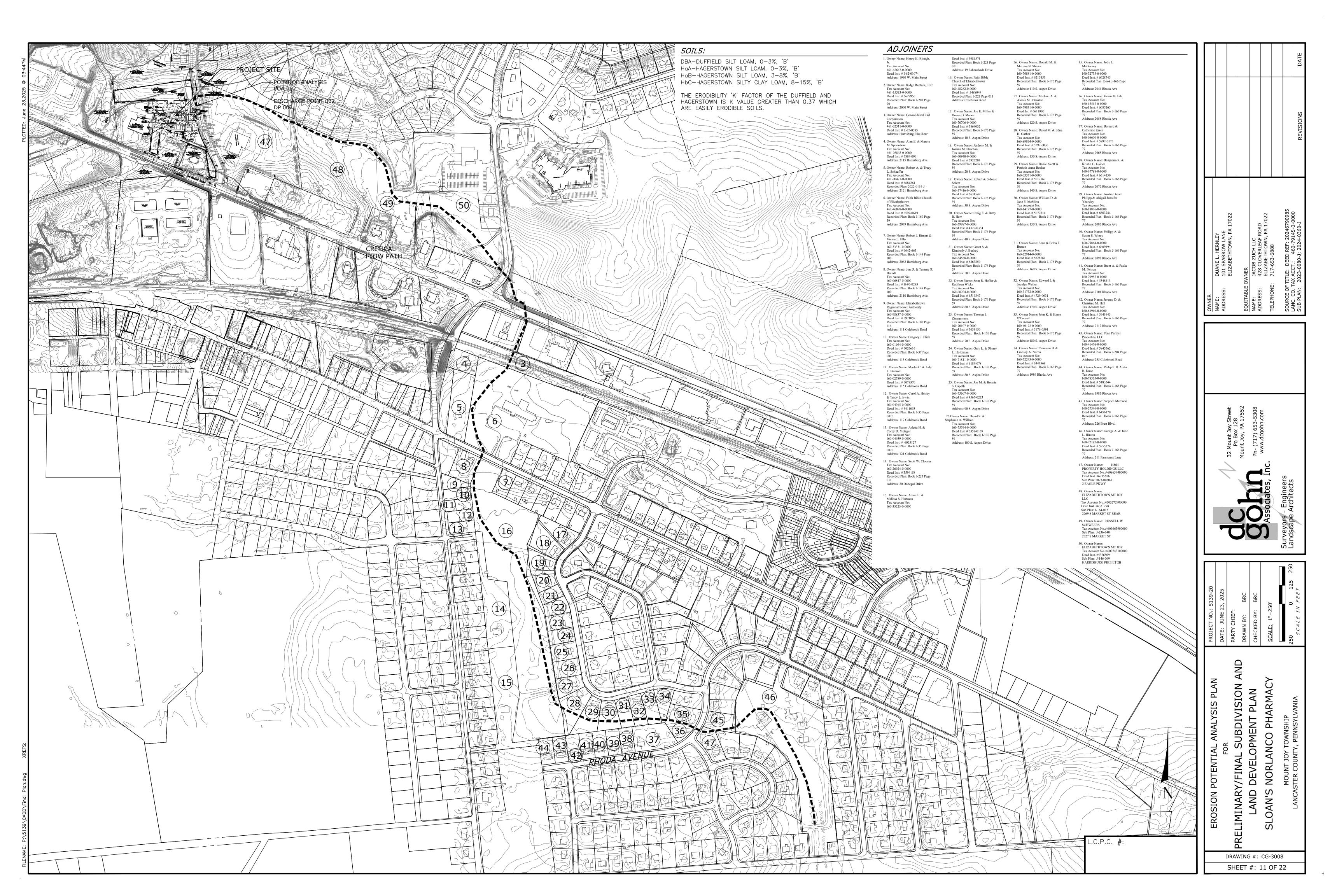
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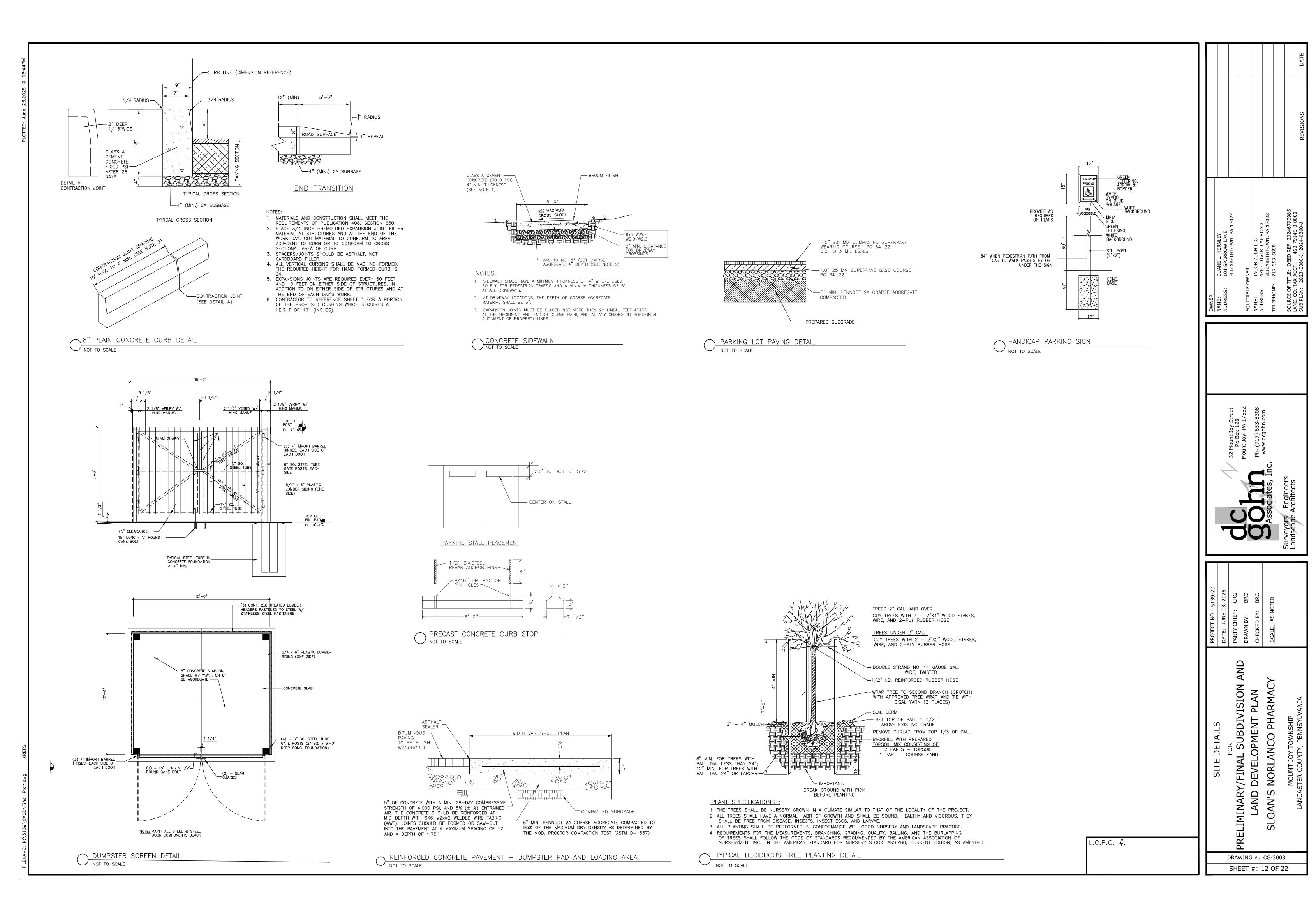
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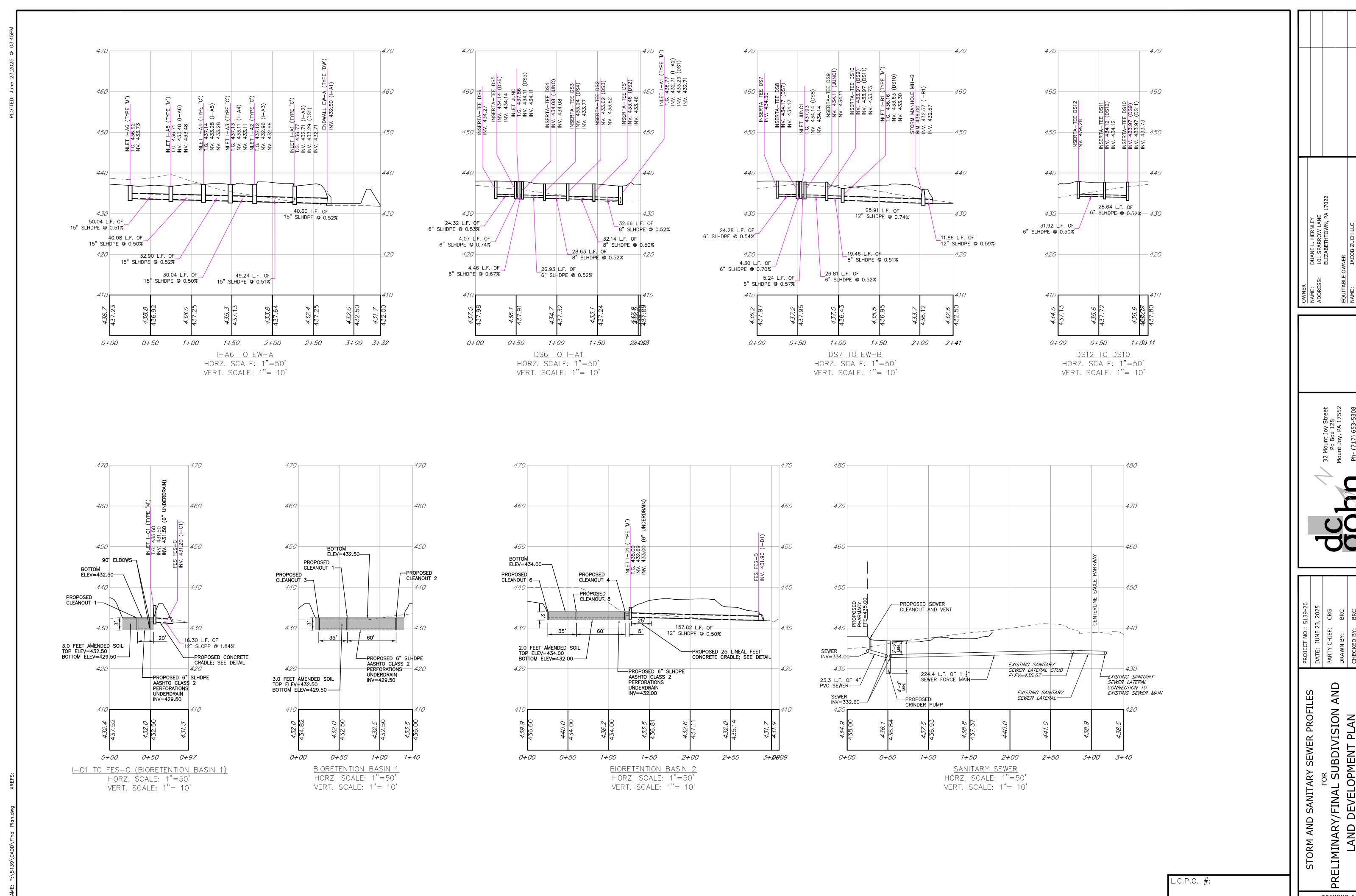






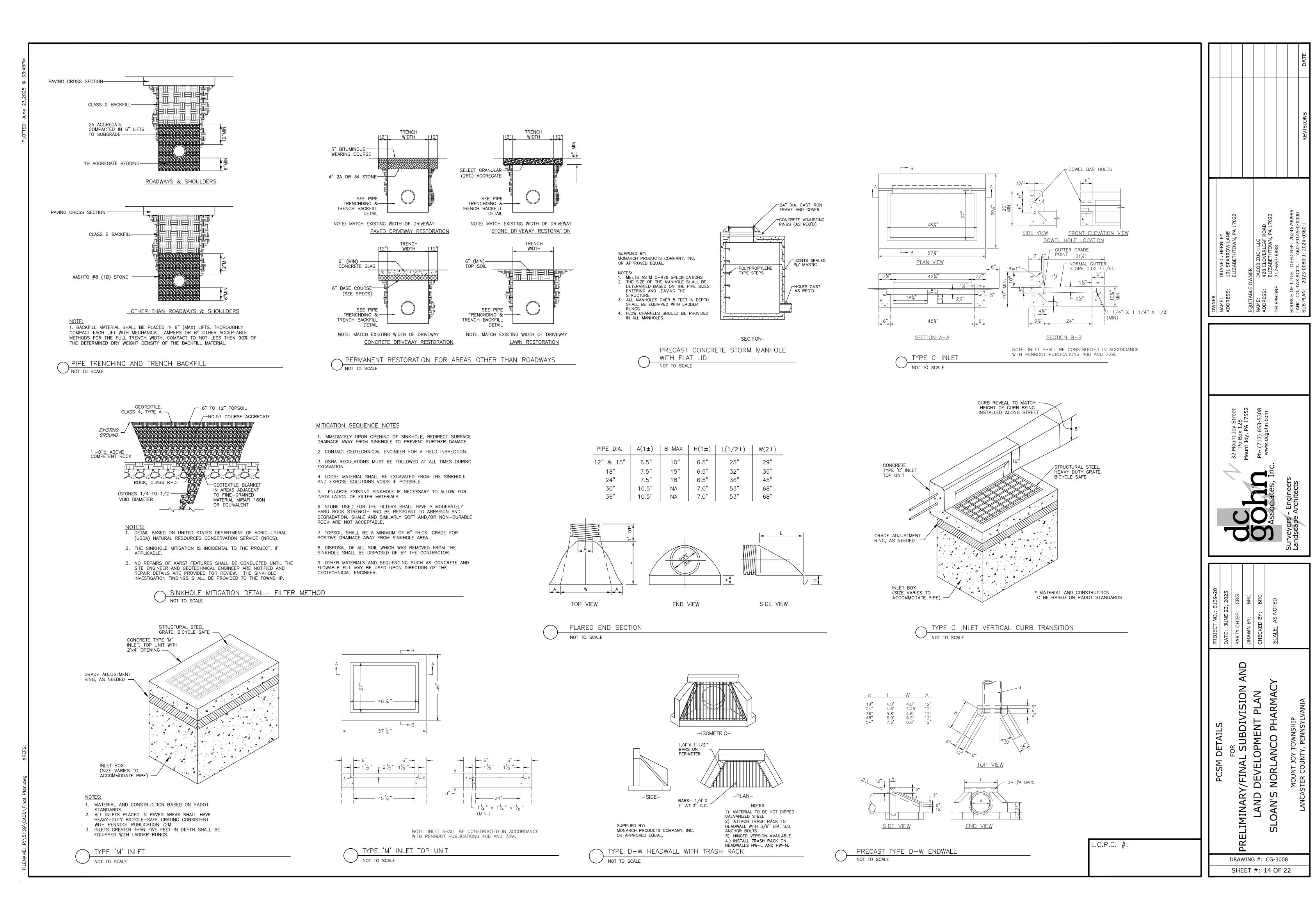






//FINAL SUBDIVISION DEVELOPMENT PLAN ELIMINARY/F

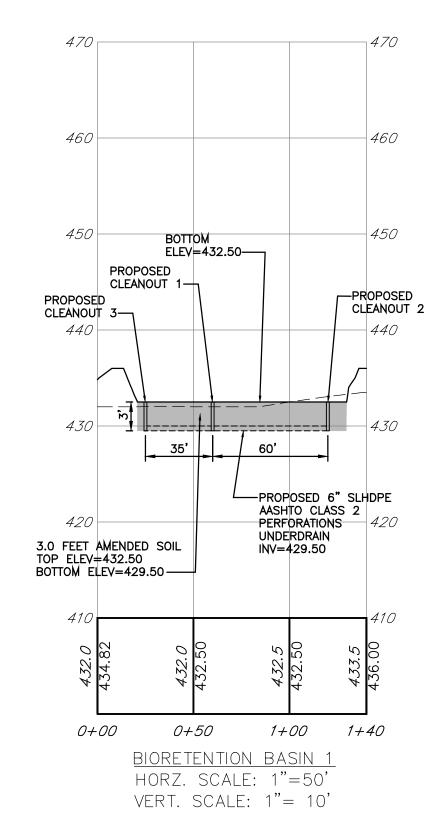
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1. FILL SHOULD BE PLACED IN 8" MAXIMUM LIFTS AND SHOULD BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY 2. MATERIAL FOR CONSTRUCTION SHALL BE SUITABLE ON-SITE OR IMPORTED SOIL CLASSIFYING AS CL, ML, OR SC BY THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS), THE MATERIALS SHALL HAVE NO ROCKS, STICKS AND OTHER DEBRIS IN OBJECTIONABLE QUANTITIES OR WITH ANY DIMENSION GREATER THAN 3 INCHES IN ANY DIMENSION.

3. THE EMBANKMENT FILL MATERIAL SHALL BE TAKEN FROM AN APPROPRIATE BORROW AREA WHICH SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN SIX INCHES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. 4. THE EMBANKMENT FILL MATERIAL SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN SIX INCHES, FROZEN OR OTHER OBJECTIONABLE MATERIALS.

T 1-C1 (435.50 431.50 **431.50** 90° ELBOWS-ELEV=432.50-440 PROPOSED CLEANOUT 16.30 L.F. OF 3.0 FEET AMENDED SOIL TOP ELEV=432.50 BOTTOM ELEV=429.50 \_\_\_12" SLCPP @ 1.84% -PROPOSED CONCRETE CRADLE; SEE DETAIL PROPOSED 6" SLHDPE AASHTO CLASS 2 PERFORATIONS UNDERDRAIN INV = 429.500+00 0+50 0+97 I-C1 TO FES-C (BIORETENTION BASIN 1) HORZ. SCALE: 1"=50' VERT. SCALE: 1"= 10'



STANDARD PADOT TYPE 'M' TOP UNIT WITH STRUCTURAL STEEL BICYCLE SAFE GRATE PADOT INLET BOX TO ACCOMMODATE DISCHARGE PIPE-CIRCULAR ORIFICE @ INV. ELEV. 433.60-- 8" W x 8" H x 8" D TRASH RACK OF STAINLESS STEEL OR ALUMINIZED STEEL (1" GRID OPENINGS) FINISH GRADE ELEV. =432.50└12" DISCHARGE PIPE INVERT FRONT VIEW SIDE VIEW └-6" Ø UNDERDRAIN PRECAST CIRCULAR ORIFICE @ INV. ELEV.

BIORETENTION BASIN 1 OUTLET STRUCTURE (I-C1)NOT TO SCALE

BIORETENTION BASIN CONSTRUCTION NOTES:

1. LIMIT COMPACTION OVER THE BIORETENTION BASIN AREA. EXCAVATE THE BIORETENTION BASIN TO THE SUBGRADE ELEVATION OF 439.00. EXCAVATION OF THE BASIN SHALL BE DONE WITH EQUIPMENT OUTSIDE OF THE BIORETENTION BASIN TO THE EXTENT PRACTICAL.

3. IF A LIMITING ZONE OF ROCK IS ENCOUNTERED WITHIN THE 24" DEPTH, REFER TO THE ROCK REMOVAL NOTES AS FOLLOWS: •IN THE EVENT THAT SUBSURFACE PINNACLES OR CLOSED DEPRESSIONS ARE ENCOUNTERED DURING CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITIES, THEY SHOULD BE OVER-EXCAVATED TO A DEPTH OF 2 FEET BELOW THE PROPOSED INVERT ELEVATION AND THE RESULTING EXCAVATION SHOULD BE BROUGHT BACK UP TO PROPOSED GRADES WITH AN AMENDED SOIL MIXTURE. • CONTRACTOR TO EXCAVATE THE ROCK TO A MAXIMUM DEPTH OF 24" BELOW THE EXPOSED SUBGRADE. EXCAVATION OF THE ROCK SHALL BE FROM OUTSIDE OF THE STONE BED TO THE EXTENT PRACTICAL. • CARE SHALL BE TAKEN TO MINIMIZE EXCESSIVE ROCK DISTURBANCE TO THE EXTENT PRACTICAL. ALL LOOSE ROCK SHALL BE REMOVED FROM AREAS PRIOR TO BACKFILLING. PRIOR TO BACKFILLING, GEOTECHNICAL ENGINEER TO REVIEW THE REMOVED ROCK AND PREPARED SUBGRADE. IF THERE ARE AREAS OF VOIDS, FRACTURES, SOFT OR WET SOILS, POTENTIAL SINKHOLE AREAS OR OTHER CONDITIONS OF CONCERN, THE AREAS SHALL BE PROPERLY

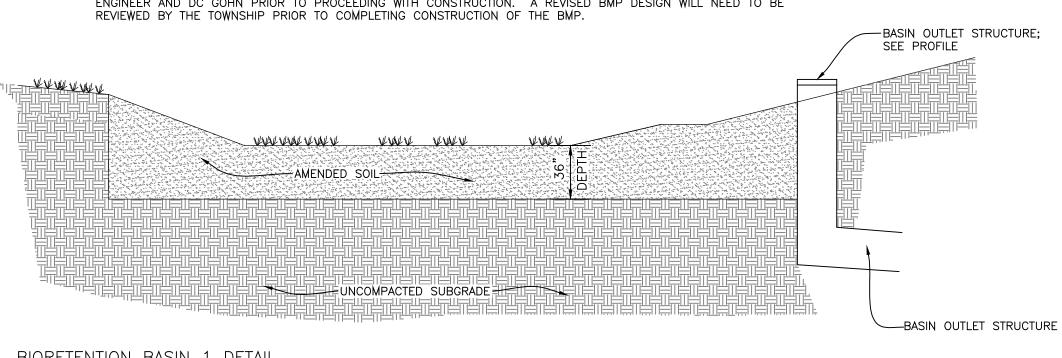
MITIGATED BASED ON THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. NO BLASTING IS PERMITTED. 4. UPON PERMANENT CONVERSION OF THE BIORETENTION BASIN, SCARIFY BOTTOM OF BIORETENTION BASIN IN THE AREA OF THE AMENDED SOILS A MINIMUM 12" BELOW PROPOSED SUBGRADE. SCARIFICATION OF THE BIORETENTION BASIN SHOULD BE DONE WITH EQUIPMENT OUTSIDE OF THE BIORETENTION BASIN TO THE EXTENT PRACTICAL. INSTALL UNDERDRAIN AND ASSOCIATED STONE TRENCH.

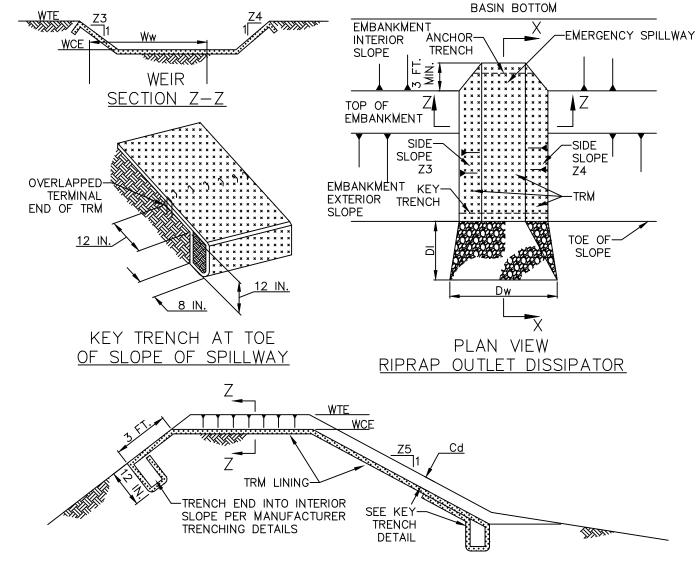
THE TOP OF THE CLEANOUTS FOR THE BIORETENTION BASIN SHALL BE SET FLUSH WITH PROPOSED GRADE. 7. INSTALL AMENDED SOIL IN 6-INCH MAXIMUM LIFTS AND LIGHTLY COMPACT (TAMP WITH BACKHOE BUCKET OR BY HAND). KEEP EQUIPMENT MOVEMENT OVER AMENDED SOIL TO A MINIMUM AND DO NOT OVERCOMPACT. PLANT ERNST SEED MÍX AS NOTED ON THE PLANS PER MANUFACTURER'S SPECIFICATIONS. REFER TO THE FINAL GRADING / PCSM PLAN FOR THE LOCATION AND EXTENT OF THE AMENDED SOIL AREA.

GENERAL BIORETENTION BASIN NOTES:

1. THE AMENDED SOIL SHALL BE A UNIFORM MIXTURE CONSISTING OF 20% SAND, 60% TOPSOIL, AND 20% COMPOST. THE COMPOST SHALL BE APPROVED LANDSCAPING COMPOST COMPRISED OF NATURAL MATERIALS AND WITH AN ORGANIC COMPOST SHALL BE APPROVED LANDSCAPING BY THE LOSS ON IGNITION METHOD. THE TOPSOIL SHALL BE FRIABLE. MATTER CONTENT OF 35% TO 65% AS DETERMINED BY THE LOSS ON IGNITION METHOD. THE TOPSOIL SHALL BE FRIABLE LOAMY SOIL AS CLASSIFIED BY THE USDA, FREE OF WEEDS, HERBICIDES, PETROLEUM-BASED MATERIALS, ANY OTHER DELETERIOUS MATERIALS, ROCKS, AND DEBRIS. THE TOPSOIL SHALL HAVE A PH OF BETWEEN 5.5 AND 8.0. 100% OF THE TOPSOIL SHALL PASS THROUGH A 3/4" SCREEN.

2. IN THE EVENT THAT GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR TO CONTACT GEOTECHNICAL ENGINEER AND DC GOHN PRIOR TO PROCEEDING WITH CONSTRUCTION. A REVISED BMP DESIGN WILL NEED TO BE



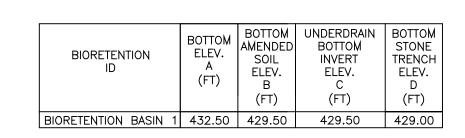


EMBANKMENT SECTION ALONG EMERGENCY SPILLWAY SECTION X-X

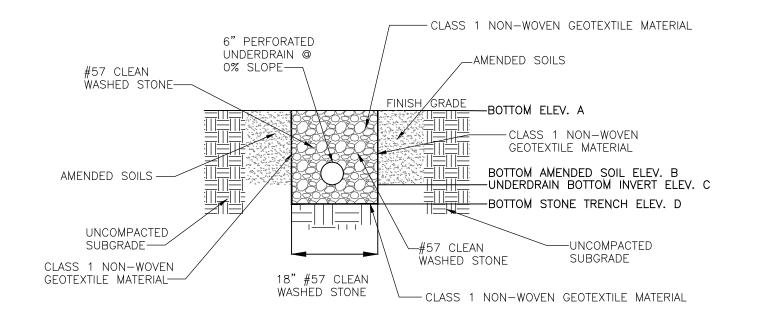
			WEIR	LINING	CHA	CHANNEL		
BASIN NO.	Z3 (FT)	Z4 (FT)	TOP ELEV WTE (FT)	CREST ELEV WCE (FT)	WIDTH Ww (FT)	TRM TYPE	Z5 (FT)	DEPTH Cd (FT)
BIORETENTION BASIN 1	2	2	436.00	434.40	10	ECP-2	3	1.0

HEAVY EQUIPMENT SHALL NOT CROSS OVER SPILLWAY WITHOUT PRECAUTIONS TAKEN TO PROTECT TRM LINING. DISPLACED LINER WITHIN THE SPILLWAY AND/OR OUTLET CHANNEL SHALL BE REPLACED IMMEDIATELY. THE USE OF BAFFLES THAT REQUIRE SUPPORT POSTS ARE RESTRICTED FROM USE IN BASINS REQUIRING IMPERVIOUS LINERS.





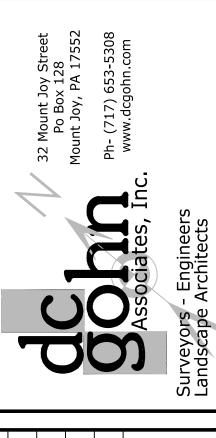
1. ALL PERFORATED PIPE SHALL BE AASHTO CLASS 2 PERFORATIONS AND BE SLHDPE.



BIORETENTION BASIN 1 UNDERDRAIN DETAIL

.C.P.C. #:

								۵ 
								REVISIONS
OWNER	NAME: DUANE L. HERNLEY ADDRESS: 101 SPARROW LANE	ELIZABETHTOWN, PA 17022	EQUITABLE OWNER	NAME: JACOB ZUCH LLC	ď	ELEPHONE:	SOURCE OF TITLE: DEED REF: 20246790985	SUB PLAN: 2023-0080-3; 2024-0360-3



DEVELOPMENT IINAR

DRAWING #: CG-3008

BIORETENTION BASIN 1 DETAIL

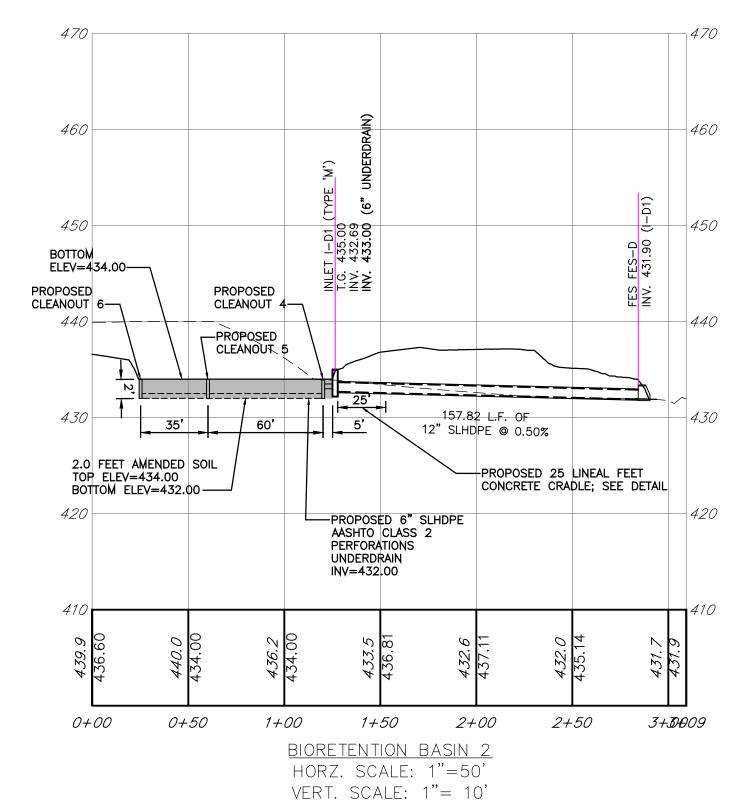
**DETAILS** 

SHEET #: 15 OF 22

DEBRIS IN OBJECTIONABLE QUANTITIES OR WITH ANY DIMENSION GREATER THAN 3 INCHES IN ANY DIMENSION 3. THE EMBANKMENT FILL MATERIAL SHALL BE TAKEN FROM AN APPROPRIATE BORROW AREA WHICH SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN SIX INCHES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT FILL MATERIAL SHALL BE FREE OF ROOTS,

STUMPS, WOOD, RUBBISH, STONES GREATER THAN SIX

INCHES, FROZEN OR OTHER OBJECTIONABLE MATERIALS.



STANDARD PADOT TYPE 'M' TOP UNIT WITH STRUCTURAL STEEL BICYCLE SAFE GRATE -PADOT INLET BOX TO ACCOMMODATE DISCHARGE PIPE--FINISH GRADE INV L12" DISCHARGE PIPE INVERT OUT ELEV. = 432.69FRONT VIEW SIDE VIEW -6" Ø UNDERDRAIN PRECAST CIRCULAR ORIFICE @ INV. ELEV.

> BIORETENTION BASIN 2 OUTLET STRUCTURE (I-D1) NOT TO SCALE

BIORETENTION BASIN CONSTRUCTION NOTES: LIMIT COMPACTION OVER THE BIORETENTION BASIN AREA. EXCAVATE THE BIORETENTION BASIN TO THE SUBGRADE ELEVATION OF 439.00. EXCAVATION OF THE BASIN SHALL BE DONE WITH EQUIPMENT OUTSIDE OF THE BIORETENTION BASIN TO THE EXTENT PRACTICAL.

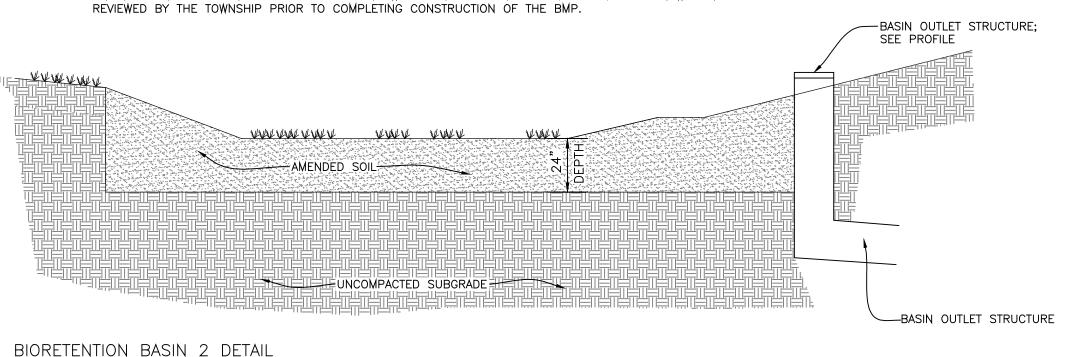
3. IF A LIMITING ZONE OF ROCK IS ENCOUNTERED WITHIN THE 24" DEPTH, REFER TO THE ROCK REMOVAL NOTES AS FOLLOWS: •IN THE EVENT THAT SUBSURFACE PINNACLES OR CLOSED DEPRESSIONS ARE ENCOUNTERED DURING CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITIES, THEY SHOULD BE OVER-EXCAVATED TO A DEPTH OF 2 FEET BELOW THE PROPOSED INVERT ELEVATION AND THE RESULTING EXCAVATION SHOULD BE BROUGHT BACK UP TO PROPOSED GRADES WITH AN AMENDED SOIL MIXTURE. • CONTRACTOR TO EXCAVATE THE ROCK TO A MAXIMUM DEPTH OF 24" BELOW THE EXPOSED SUBGRADE. EXCAVATION OF THE ROCK SHALL BE FROM OUTSIDE OF THE STONE BED TO THE EXTENT PRACTICAL. • CARE SHALL BE TAKEN TO MINIMIZE EXCESSIVE ROCK DISTURBANCE TO THE EXTENT PRACTICAL. ALL LOOSE ROCK SHALL BE REMOVED FROM AREAS PRIOR TO BACKFILLING. PRIOR TO BACKFILLING, GEOTECHNICAL ENGINEER TO REVIEW THE REMOVED ROCK AND PREPARED SUBGRADE. IF THERE ARE AREAS OF VOIDS, FRACTURES, SOFT OR WET SOILS. POTENTIAL SINKHOLE AREAS OR OTHER CONDITIONS OF CONCERN, THE AREAS SHALL BE PROPERLY

MITIGATED BASED ON THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. NO BLASTING IS PERMITTED. 4. UPON PERMANENT CONVERSION OF THE BIORETENTION BASIN, SCARIFY BOTTOM OF BIORETENTION BASIN IN THE AREA OF THE AMENDED SOILS A MINIMUM 12" BELOW PROPOSED SUBGRADE. SCARIFICATION OF THE BIORETENTION BASIN SHOULD BE DONE WITH EQUIPMENT OUTSIDE OF THE BIORETENTION BASIN TO THE EXTENT PRACTICAL. INSTALL UNDERDRAIN AND ASSOCIATED STONE TRENCH.

THE TOP OF THE CLEANOUTS FOR THE BIORETENTION BASIN SHALL BE SET FLUSH WITH PROPOSED GRADE. 7. INSTALL AMENDED SOIL IN 6-INCH MAXIMUM LIFTS AND LIGHTLY COMPACT (TAMP WITH BACKHOE BUCKET OR BY HAND). KEEP EQUIPMENT MOVEMENT OVER AMENDED SOIL TO A MINIMUM AND DO NOT OVERCOMPACT. PLANT ERNST SEED MIX AS NOTED ON THE PLANS PER MANUFACTURER'S SPECIFICATIONS. REFER TO THE FINAL GRADING / PCSM PLAN FOR THE LOCATION AND EXTENT OF THE AMENDED SOIL AREA.

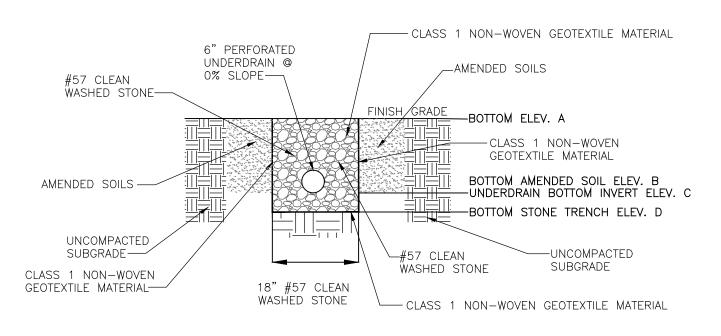
GENERAL BIORETENTION BASIN NOTES: THE AMENDED SOIL SHALL BE A UNIFORM MIXTURE CONSISTING OF 20% SAND, 60% TOPSOIL, AND 20% COMPOST. THE COMPOST SHALL BE APPROVED LANDSCAPING COMPOST COMPRISED OF NATURAL MATERIALS AND WITH AN ORGANIC MATTER CONTENT OF 35% TO 65% AS DETERMINED BY THE LOSS ON IGNITION METHOD. THE TOPSOIL SHALL BE FRIABLE LOAMY SOIL AS CLASSIFIED BY THE USDA, FREE OF WEEDS, HERBICIDES, PETROLEUM-BASED MATERIALS, ANY OTHER DELETERIOUS MATERIALS, ROCKS, AND DEBRIS. THE TOPSOIL SHALL HAVE A PH OF BETWEEN 5.5 AND 8.0. 100% OF THE

TOPSOIL SHALL PASS THROUGH A 3/4" SCREEN. 2. IN THE EVENT THAT GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR TO CONTACT GEOTECHNICAL ENGINEER AND DC GOHN PRIOR TO PROCEEDING WITH CONSTRUCTION. A REVISED BMP DESIGN WILL NEED TO BE



AMENDED BIORETENTION ELEV. SOIL ELEV. INVERT **TRENCH** ELEV. ELEV. (FT) (FT) 432.00 431.50 |BIORETENTION BASIN 2| 434.00 | 432.00 |

> 1. ALL PERFORATED PIPE SHALL BE AASHTO CLASS 2 PERFORATIONS AND BE SLHDPE.



BIORETENTION BASIN 2 UNDERDRAIN DETAIL

STORM WATER MANAGEMENT FACILITIES (ERNST 180-1 SEED MIX)

SITE PREPARATION NOTES:

1. INVASIVE SPECIES. PARTICULARLY THOSE THAT WILL ADAPT TO WET CONDITIONS, SHOULD BE REMOVED OR SPRAYED BEFORE THEY BECOME INCORPORATED INTO THE SITE. NORMAL VEGETATION CAN BE WORKED INTO THE TOPSOIL, WHICH SHOULD BE STOCKPILED UNTIL THE FINAL GRADE HAS BEEN ESTABLISHED.

2. WITH THE ENGINEER'S SPECIFICATIONS AND DIMENSIONS IN HAND, ON-SITE CONSTRUCTION OF THE BERM AND OUTLETS MUST BE EXECUTED CAREFULLY IN ORDER TO MAINTAIN STRUCTURAL INTEGRITY. THE PLANT GROWTH AREAS SHOULD BE LOOSE AND FRIABLE. HIGH IN ORGANIC MATTER, AND COMPLETED WITHOUT COMPACTIONS FROM HEAVY EQUIPMENT. BY USING THE "DIG AND DROP" METHOD, ONE CAN USE AN EXCAVATOR TO DIG AND FROM EACH AREA OF THE BOTTOM SOIL IN A LOOSE MANNER. AT THIS POINT, ONE CAN INCORPORATE LIME, COMPOSTED LEAVES, AND/OR GRASS CLIPPINGS. THE EXCAVATION MACHINE DOES NOT MOVE OVER THE FINISHED SURFACE, THUS AVOIDING UNNECESSARY COMPACTION. NATIVE VEGETATION CAN BE PLANTED OR SEEDED OVER THIS UNEVEN. ABSORBENT SURFACE.

SEEDING AND PLANTING METHODS NOTES:

1. SEEDING AND PLANTING SHOULD BEGIN IMMEDIATELY UPON COMPLETION OF THE STRUCTURE WHEN THE SOIL IS STILL FRIABLE AND BEFORE INVASIVE WEEDS EMERGE. PLAN SEEDING AND PLANTING BEFORE THE BASIN IS FLOODED, OR ALLOW THE BASIN TO DRAIN TO A FEW INCHES BEFORE SEEDING. BROADCAST SEED EVENLY OVER EACH UNIT BY HAND SEEDING OR HYDROSEEDING. SEEDING RATES ARE GENERALLY LOW (1/2 LB PER 1,000 SQ FT). THE USE OF A SEED FILLER; I.E. PAM-12, CAN BE USED TO CREATE A MIX OF 10 LB PER 1,000 SQ FT (I.E. 9-1/2 LB OF PAM-12 MIXED WITH 1/2 LB OF SEED), WHICH CAN BE BROADCAST EVENLY OVER THE AREA. BARLEY, OATS, OR RYE CAN PROVIDE TEMPORARY VEGETATION TO PROTECT THE SOIL IN STORM WATER MANAGEMENT FACILITIES UNTIL PERMANENT VEGETATION CAN BE ESTABLISHED. THE USE OF NATIVE SPECIES; I. E. VIRGINIA WILD RYE, CAN CREATE AN INTERMEDIATE VEGETATIVE COVE THAT SUCCEEDS TO NATIVE LONG-TERM VEGETATION. STRAW MULCH OR STRAW COCONUT MATS ARE FREQUENTLY USED TO CONTROL EROSION AND PROTECT EMERGING SEEDLINGS FROM EXTREME TEMPERATURES AND DRYING OUT. MULCH SHOULD BE SPARSE TO ALLOW SUNLIGHT TO REACH THE GROUND.

2.TRANSPLANTED SEEDLINGS AND SHRUBS NEED TEMPORARY WATER UNTIL THEY BECOME WELL ROOTED. IRRIGATION OF SEEDED AREAS IS OF VALUE UNTIL SEEDLINGS BECOME ESTABLISHED.

GENERAL MAINTENANCE NOTES:

1.IN ADDITION TO STRUCTURAL MAINTENANCE, SILTATION NEEDS TO BE REMOVED AS NEEDED. PLANTS NEED TO BE TRIMMED BACK TO MAINTAIN AESTHETIC VALUE AND INVASIVE SPECIES NEED TO BE CONTROLLED. CLOSE MOWING OR EXTENSIVE CHEMICAL USE IS NOT CONDUCIVE TO WATER QUALITY IMPROVEMENT OR WILDLIFE

ERNST CONSERVATION SEEDS

ERNMX # ERNMX-180-1

SEEDING RATE 20 lbs per acre, or 1/2 lb per 1,000 sq ft MIX TYPE Rain Garden Grass Mix

40.4% Schizachyrium scoparium, Fort Indiantown Gap-PA Ecotype (Little Bluestem, Fort Indiantown Gap-PA Ecotype) 20.0% Carex vulpinoidea, PA Ecotype (Fox Sedge, PA Ecotype)

20.0% Elymus virginicus, Madison-NY Ecotype (Virginia Wildrye, Madison—NY Ecotype) 9.0% Panicum clandestinum, Tioga (Deertongue, Tioga) 5.5% Panicum rigidulum, PA Ecotype

(Redtop Panicgrass, PA Ecotype) 4.0% Chasmanthium latifolium, WV Ecotype (River Oats, WV Ecotype) 0.5% Carex scoparia, PA Ecotype (Blunt Broom Sedge, PA Ecotype)

0.3% Juncus effusus (Soft Rush) 0.3% Juncus tenuis, PA Ecotype

(Path Rush, PA Ecotype) Total 100%

ERNST SEED MIX NOTES

NOT TO SCALE

STEEP SLOPES (ERNST 181 SEED MIX)

SITE PREPARATION NOTES:

1. ERADICATE EXISTING VEGETATION BY HAVING A LICENSED SPRAY TECHNICIAN APPLY AN APPROVED HERBICIDE. WHENEVER POSSIBLE, REGRADE THE SITE TO REDUCE SLOPE WHICH WILL, IN TURN, REDUCE EROSION AND MINIMIZE SEED LOSS.

2. HABITAT: SOIL CONSISTS OF VARIOUS CLAY, SAND, AND ROCK OUTCROPPING WITHOUT TOPSOIL.

3. FERTILITY: THESE SITES ARE GENERALLY LOW IN FERTILITY; THEREFORE, ADDING TOPSOIL OR ORGANIC MATTER (COMPOST) CAN BE VERY BENEFICIAL. CHECK YOUR SOIL Ph AND SELECT SPECIES ADAPTED TO THAT ph. ADD LIME AND FERTILIZER AS RECOMMENDED BY SOIL ANALYSIS. INCORPORATE ANY AMENDMENTS INTO THE SOIL. ALL INCORPORATION ACTIVITIES SHOULD BE DONE IN A MANNER THAT WILL LEAVE THE SOIL ROUGH, WHICH WILL MINIMIZE SOIL EROSION AND RAPID RUN-OFF.

4. SEEDING METHOD: HAND SEED, BROADCAST, HYDROSEED, OR DRILL SEED. ONCE THE SEED HAS BEEN BROADCAST, DRAGGING WITH A LIGHT HARROW TO COVER THE SEED (APPROX.. 14"- 12" DEEP), TRACKING OR MULCHING WITH STRAW, HYDROMULCH, OR STRAW/COCONUT FIBER MATS IS RECOMMENDED TO PROTECT THE SEED FROM DRYING OUT OR WASHING AWAY. WITH ADEQUATE TEMPERATURE AND MOISTURE, THE SEED SHOULD BEGIN TO GERMINATE WITHIN APPROXIMATELY THREE WEEKS.

1. OBSERVATION OF THE DESIRED SPECIES' GROWTH AND WEED COMPETITION IS ESSENTIAL WHEN MAKING MAINTENANCE DECISIONS. MINIMUM MOWING (4"-6" HIGH) TO TOP OFF AGGRESSIVE WEEDS IS RECOMMENDED TO GIVE DESIRABLE PLANTS AND OPPORTUNITY TO DEVELOP ROOTS. MOST COMPETITION THE FIRST YEAR WILL BE ANNUAL WEEDS. MOWING TOO CLOSE ENCOURAGES WEEDY GRASS SPECIES.

SECOND YEAR MAINTENANCE

1. MONITOR AND CONTROL UNDESIRABLE VEGETATION WITH SPOT SPRAYING OR MOWING. MOWING THE ENTIRE AREA (4" TO 6" HIGH) DURING THE DORMANT SEASON CAN ENHANCE THE APPEARANCE WITHOUT JEOPARDIZING WILDLIFE HABITAT AND EROSION

SPECIAL CONSIDERATIONS: 1. VEGETATION ALLOWED TO GROW WITHOUT MOWING PROVIDES MORE PROTECTION FOR WILDLIFE AND AIDS IN EROSION CONTROL.

ERNST CONSERVATION SEEDS NATIVE STEEP SLOPE MIX WITH ANNUAL RYEGRASS

ERNMX # ERNMX-181 SEEDING RATE 60 lbs per acre, or 1 lb per 1,000 sq ft

MIX TYPE Disturbed Sites and Steep Slopes SPECIES LIST 20% Annual Ryegrass (Lolium multiflorum (L. perenne var. italicum))
Purpletop (Tridens flavus) Riverbank Wildrye, PA Ecotype (Elymus riparius, PA Ecotype) 12% Indiangrass, PA Ecotype (Sorghastrum nutans, PA Ecotype) Creeping Red Fescue (Festuca rubra) Big Bluestem, 'Niagara' (Andropogon gerardii, 'Niagara') Ticklegrass (Rough Bentgrass), PA Ecotype (Agrostis scabra, PA Ecotype) Virginia Wildrye, PA Ecotype (Elymus virginicus, PA Ecotype) Autumn Bentgrass, PA Ecotype (Agrostis perennans, PA Ecotype) Purple Coneflower (Echinacea purpurea) Partridge Pea, PA Ecotype (Chamaecrista fasciculata (Cassia f.), PA Ecotype Lanceleaf Coreopsis, Coastal Plain NC Ectoype (Coreopsis lanceolata, Coastal Plain NC Ecotype) Tall White Beardtongue (Penstemon digitalis) Marsh (Dense) Blazing Star (Spiked Gayfeather), PA Ecotype (Liatris spicata, PA Ecotype) Wild Bergamot (Monarda fistulosa)

STEEP SLOPE SEED MIX

100%

Total

.C.P.C. #:

OPM Ē 

DE

DRAWING #: CG-3008

SHEET #: 16 OF 22

(4 IN. MIN.)

<u>PLAN VIEW</u>

0% SLOPE GEOTEXTILE SECTION Y-Y

/-0% SLOPE

SECTION Z-Z

		RIP	RAP		APRON	
OUTLET NO.	PIPE DIA Pd (IN)	SIZE R		LENGTH AI (FT)		TERMINAL WIDTH Atw (FT)
EW-A	15	R-3	12	6.0	3.75	6.2
EW-B	12	R-3	12	4.0	3.00	4.6
FES-C	12	R-3	12	6.0	3.00	9.0
FES-D	12	R-3	12	6.0	3.00	9.0

# NOTES:

PRINCIPAL— SPILLWAY RISER

COMPACTED

INSTALL BEGINNING OF ROLL

IN 6 IN. x 6 IN. ANCHOR

TRENCH, STAPLE, BACKFILL

PREPARE SEED BED

(INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED) PRIOR TO BLANKET INSTALLATION

REFER TO MANUF. RECOMMENDED

STAPLING PATTERN FOR

SLOPE BEING BLANKETED

STEEPNESS AND LENGTH OF

AND COMPACT SOIL

GROUND

-CONCRETE CRADLE

IN PLACE NEAT TO

GROUND, 3000 PSI

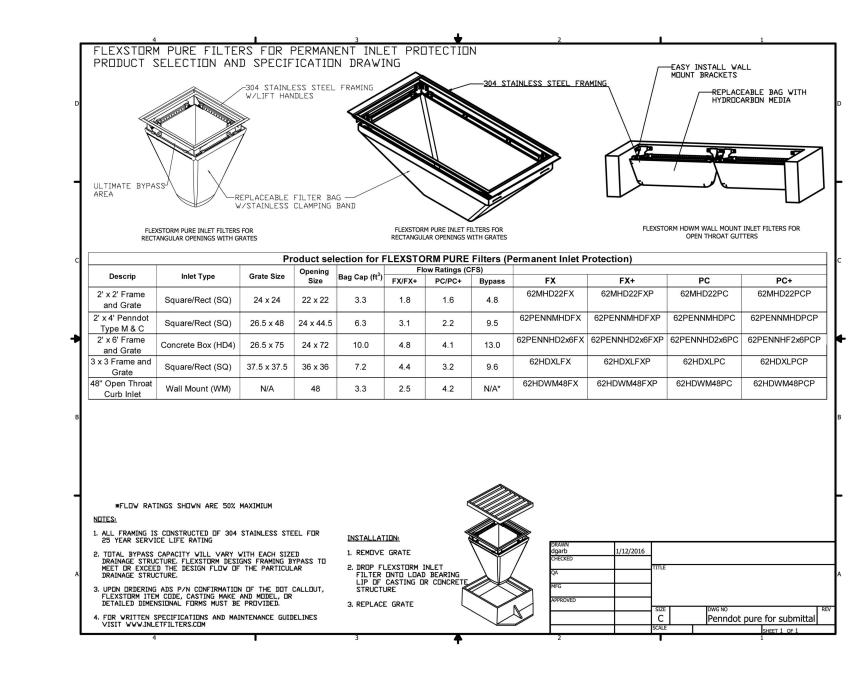
1. ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.

2. ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

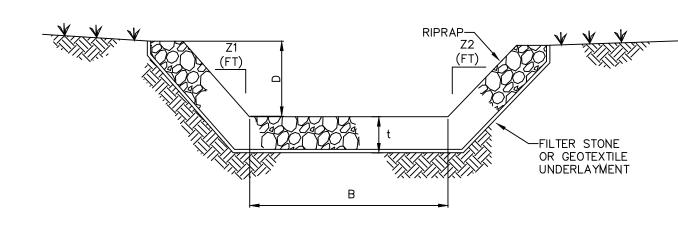
RIP-RAP APRON AT PIPE OUTLET NOT TO SCALE

BMP ID.	INSPECTION FREQUENCY	OPERATION AND MAINTENANCE PROCEDURE
BIORETENTION BASIN 1 AND 2	TWICE PER YEAR	TO ASSURE PROPER OPERATION AND STRUCTURAL STABILITY, THE OWNER SHALL INSPECT EACH BIORETENTION BASIN AT LEAST ONCE EACH APRIL, AT LEAST ONCE EACH OCTOBER, AND WITHIN 48 HOURS AFTER EVERY RAINFALL EVENT EXCEEDING 2.96 INCH OF PRECIPITATION IN 24 HOURS.  INSPECT FOR EROSION PROBLEMS, VEGETATION DAMAGE, SEDIMENT AND DEBRIS ACCUMULATION, AND LITTER.  REMOVE ACCUMULATIONS OF SEDIMENT >3 INCHES IN DEPTH AND IMMEDIATELY STABILIZE DISTURBED AREAS.  REMOVE SEDIMENT DURING PERIODS WHEN RUTTING WILL BE MINIMAL.  PRUNE VEGETATION AND WEED GARDENS TO ENSURE SAFETY, AESTHETICS, PROPER OPERATION, WEED AND INVASIVE/NOXIOUS VEGETATION SUPPRESSION.  REMOVE INVASIVE/NOXIOUS PLANTS AND IMMEDIATELY STABILIZE DISTURBED AREAS.  REMOVE LITTER, DEBRIS, AND DETRITUS.  A WRITTEN REPORT IS TO BE COMPLETED WHICH DOCUMENTS EACH INSPECTION AND ALL BMP REPAIR AND MAINTENANCE ACTIVITIES
FLEXSTORM INLET FILTER (INLETS I-A1, I-A2, I-A3, I-A4, I-A5, I-A6, AND I-B1)	INSPECTION TO OCCUR FOLLOWING ANY RAIN EVENT >1"	<ul> <li>POST CONSTRUCTION INSPECTIONS SHOULD OCCUR 4 TIMES PER YEAR.</li> <li>EMPTY THE SEDIMENT BAG IF MORE THAN HALF FILLED WITH SEDIMENT AND DEBRIS, OR AS DIRECTED.</li> <li>REMOVE THE GRATE, ENGAGE THE LIFTING BARS WITH THE FLEXSTORM REMOVAL TOOL, AND LIFT FROM DRAINAGE STRUCTURE.</li> <li>DISPOSE OF SEDIMENT OR DEBRIS.</li> </ul>

PCSM OPERATION AND MAINTENANCE NOTES NOT TO SCALE



FLEX STORM FILTERS FOR PERMANENT INLET PROTECTION



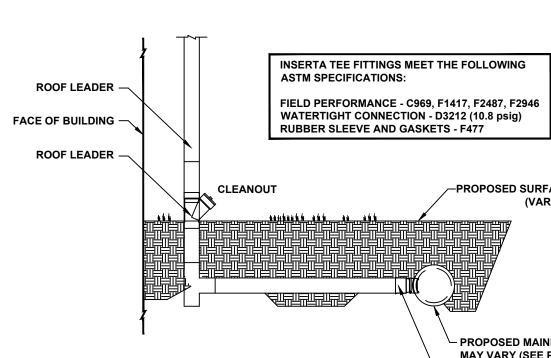
CHANNEL NO.	BOTTOM WIDTH B (FT)	DEPTH D (FT)	Z1 (FT)	Z2 (FT)	RIPRAP GRADATION (R)	RIPRAP DEPTH t (IN)
1	10'	0.50'	1	1	R-6	36

FILTER STONE UNDERLAYMENT FOR BED SLOPES  $\geq$  0.10 FT/FT (10 %) SHALL BE USED. CHANNEL DIMENSIONS ARE FOR THE COMPLETED CHANNEL AFTER ROCK PLACEMENT. CHANNEL MUST BE OVER-EXCAVATED A SUFFICIENT AMOUNT TO ALLOW FOR THE VOLUME OF ROCK PLACED WITHIN THE CHANNEL WHILE PROVIDING THE SPECIFIED FINISHED DIMENSIONS.

CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE.

DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY. THE MINIMUM ROCK THICKNESS (t) SHALL BE 1.5 TIMES THE MAX ROCK SIZE.

RIP-RAP CHANNEL NOT TO SCALE



NTS 7/30/13

.C.P.C. #:

INSERTA TEE - ROOF DRAIN LEADER

─ INSERTA TEE CONNECTION
DESIGNED TO CONNECT 2" (51 mm) THROUGH 30" (750 mm) SERVICES TO ALL KNOWN SOLID WALL, PROFILE,

INSERTA TEE - ROOF DRAIN LEADER NOT TO SCALE

-PROPOSED SURFACE TREATMENT - PROPOSED MAINLINE PIPE, DIAMETER MAY VARY (SEE PROFILES FOR PIPE SIZE); MATERIAL IS HDPE CORNELIUS, OR 97116
PH:(503) 357-2110 FAX:(503) 359-5417
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# INDIVIDUAL PCSM BMP INFORMATION

OWNER PHONE: 717-653-6888

PCSM BMP NAME: BIORETENTION BASIN 1 PCSM BMP DESCRIPTION/TYPE: BIORETENTION BASIN BMP LENGTH (FT) (IF APPLICABLE): N/A BMP AREA (AC): 0.071 ACRES BMP DEPTH (FT): 1.43 FEET VOLUME OF STORMWATER TREATED (CF): 3,703 CF VOLUME REDUCTION (CF) (IF APPLICABLE): 3,703 CF OWNER NAME: JACOB ZÚCH LLC OWNER ADDRESS: 428 CLOVERLEAF ROAD MOUNT JOY, PA 17552 PROJECT SITE ADDRESS: ADDRESS NOT ASSIGNED AT THIS TIME

PCSM BMP NAME: BIORETENTION BASIN 2 PCSM BMP DESCRIPTION/TYPE: BIORETENTION BASIN BMP LENGTH (FT) (IF APPLICABLE): N/A BMP AREA (AC): 0.052 ACRES BMP DEPTH (FT): 1.04 FEET VOLUME OF STORMWATER TREATED (CF): 2,526 CF VOLUME REDUCTION (CF) (IF APPLICABLE): 2,526 CF OWNER NAME: JACOB ZÚCH LLC OWNER ADDRESS: 428 CLOVERLEAF ROAD MOUNT JOY, PA 17552 PROJECT SITE ADDRESS: ADDRESS NOT ASSIGNED AT THIS TIME OWNER PHONE: 717-653-6888

ACRES TREATED: 0.83 AC IMPERVIOUS AREA TREATED (AC): 0.43 AC LIFECYLE (YEARS): PERPETUITY NPDES PERMIT NUMBER: -----RECEIVING WATERBODY: TRIB 07939 OF DONEGAL CREEK, CWF, MF

PCSM BMP #: 001

PCSM BMP #: 002 ACRES TREATED: 0.44 AC IMPERVIOUS AREA TREATED (AC): 0.20 AC LIFECYLE (YEARS): PERPETUITY NPDES PERMIT NUMBER: ----RECEIVING WATERBODY: TRIB 07939 OF DONEGAL CREEK, CWF, MF

SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET. PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS. BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET. THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL

VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA.

DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

SLOPE MATTING INSTALLATION DETAIL

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

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

OVERLYING THE DOWNSLOPE BLANKET

(SHINGLE STYLE). STAPLE SECURELY.

NOT BE STRETCHED; IT WITH THE UPSLOPE BLANKED

MUST MAINTAIN GOOD

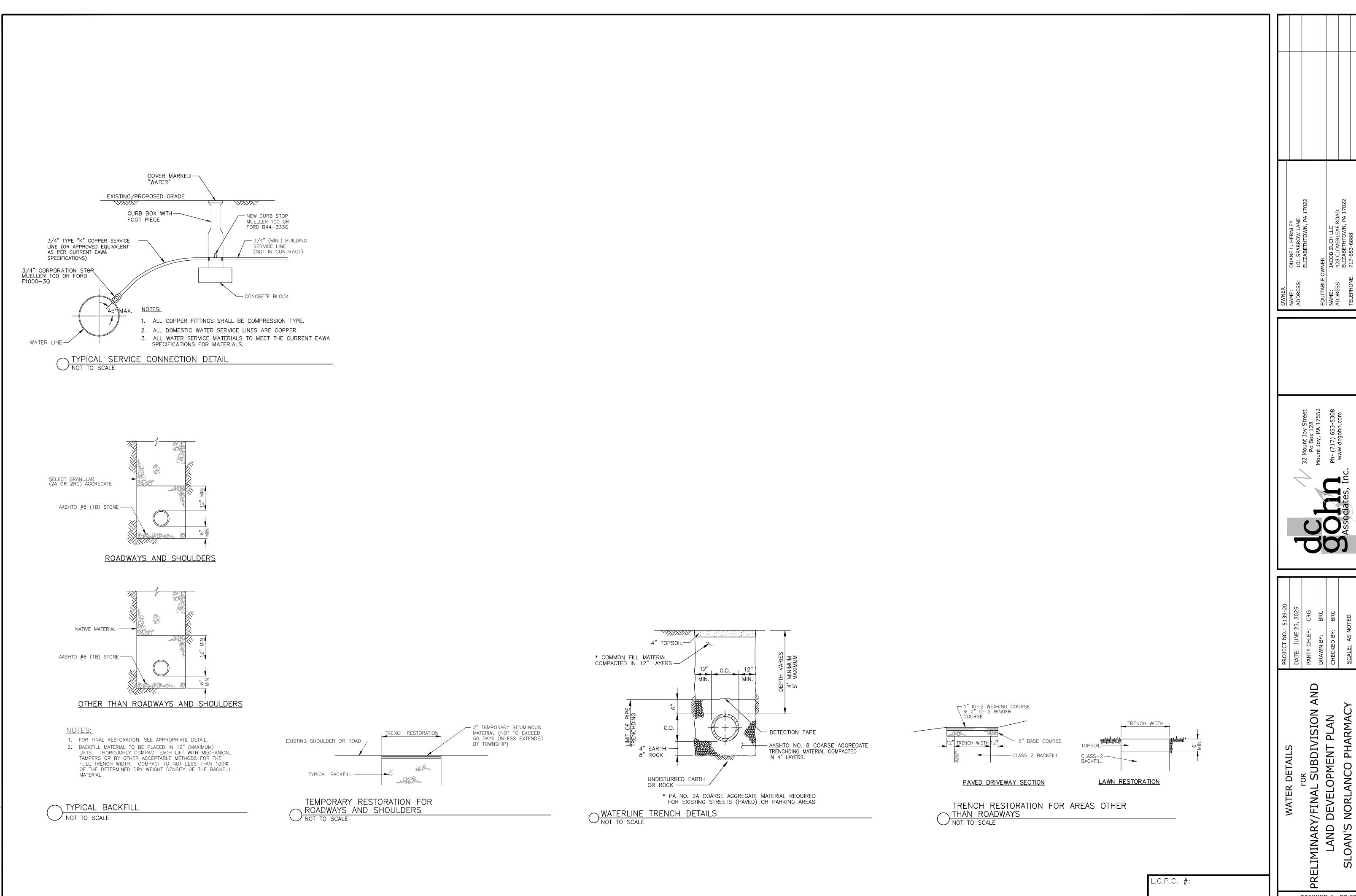
SOIL CONTACT

PCSM BMP INFORMATION

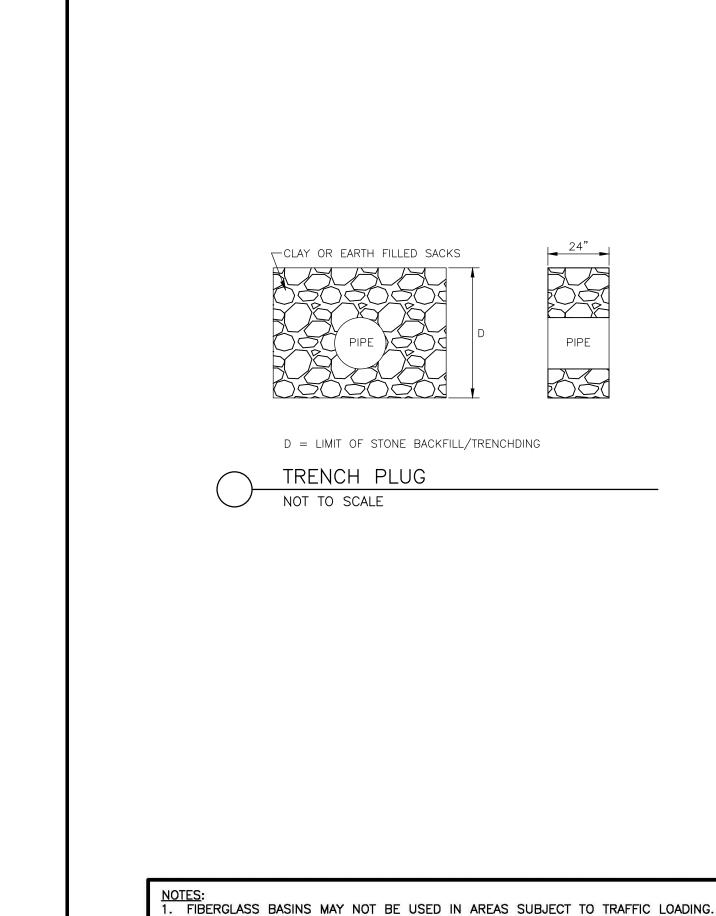
**DETAILS** 

Y/FINAL SUBDIV MINARY,

DRAWING #: CG-3008 SHEET #: 17 OF 22



DRAWING #: CG-3008
SHEET #: 18 OF 22



PIPE

2. LOCATION OF BASIN TO BE DETERMINED BY PROPERTY OWNER OR DEVELOPER.

OBJECTS LARGER THAN 1" MAX DIMENSION, OR AASHTO No. 8 STONE.

6. PROVIDE A REDUNDANT CHECK VALVE ON PUMP DISCHARGE PIPING.

5. STANDARD TANK SIZE FOR 1 EDU IS 36" DIA x 96".

FINISHED GRADE -

UNDISTURBED EARTH-

| INLET HUB-

SERVICE LINE -

GRAVITY

3. EXCAVATED AREA SHALL BE BACKFILLED TO 6" BELOW GRADE. BACKFILL MATERIAL SHALL BE EXCAVATED MATERIAL CONTAINING NO SOIL LUMPS, STONES, CONCRETE, OR FOREIGN

4. 6" TOPSOIL AND SEED SHALL BE PLACED TO GRADE THE SURROUNDING EXCAVATED AREA.

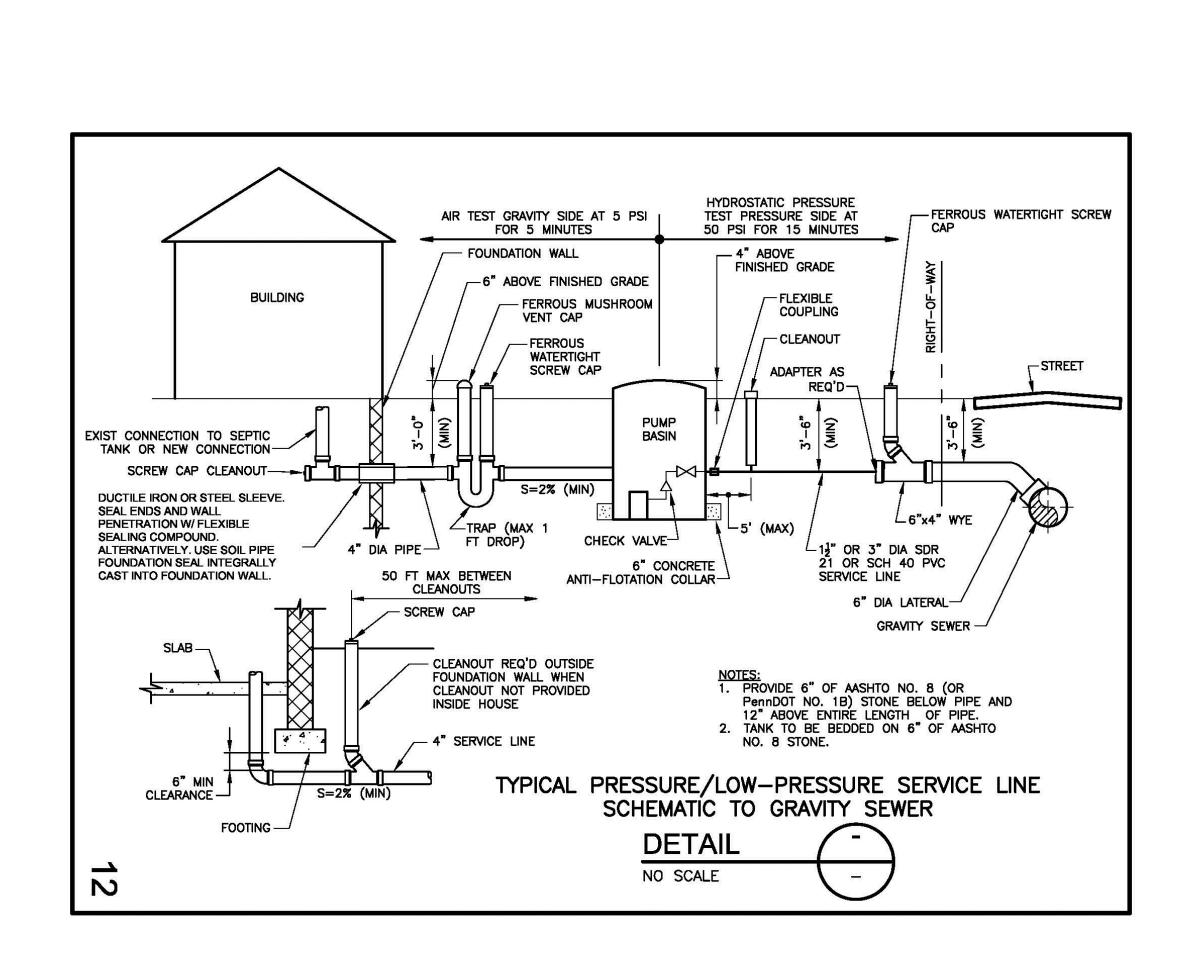
ELEVATION

FIBERGLASS BASIN FOR TYPICAL

INDIVIDUAL PUMP

**DETAIL** 

NO SCALE



TEMPORARY BITUMINOUS

GRADE —

TRENCH WIDTH

NOTE: TRENCH SIDE SLOPES SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.

APPROXIMATELY 18" ABOVE TOP OF PIPE

BEGIN SIDE SLOPES, IF USED,

(TYPICAL ALL BEDDING TYPES).

NOT TO SCALE

\_\_4" (MIN)

- ANTI-SIPHON

COUPLING

FLEXIBLE M

- DISCHARGE

1<sup>1</sup> MIN DIA

COUPLING

DÎSCHARGE LINE

-BALL STOP VALVE

-REDUNDANT BALL

" THICK FIBERGLASS

REINFORCED POLYESTER

- GRINDER PUMP UNIT

PER SPECIFICATIONS

CONCRÈTE ANTI-FLOTATION COLLAR

" AASHTO No. 8

(PennDOT No. 1B)

STONE BEDDING

CHECK VALVE

RESIN BASIN

13" NPT DISCHARGE

S" MIN TOPSOIL

BACKFILL AND RESTORATION

AS SPECIFIED. NO STONES

LARGER THAN 8" AND NO

MORE THAN 20% STONES

-AASHTO NO. 8 (OR 1B)

GRAVEL) AND BEDDING

-- UNDISTURBED EARTH

OR ROCK

STONE BACKFILL (SCRÉENED

BY VOLUME

SURFACE -

TEMPORARY

TRENCH WIDTH

SPECIFIED BY PADOT.

NOT TO SCALE

LAND DEVELOPMENT ORDINANCE.

> PAVEMENT RESTORATION

NOTES:

1. BACKFILL & PAVEMENT RESTORATION IN STATE ROADS SHALL BE AS

2. BACKFILL & PAVEMENT RESTORATION IN TOWNSHIP ROADS, ACCESS

SPECIFIED IN THE WEST DONEGAL TOWNSHIP SUBDIVISION AND

DRIVES, PARKING AREAS AND LOADING AREAS SHALL BE AS

PERMANENT

— SAWCUT EXISTING EDGE ,— SEAL EDGE

> -BINDER COURSE -BITUMINOUS

— BACKFILL MATERIAL

└ MIN 12" BEYOND

EDGE OF TRENCH

– AASHTO NO. 8 (OR 1B)

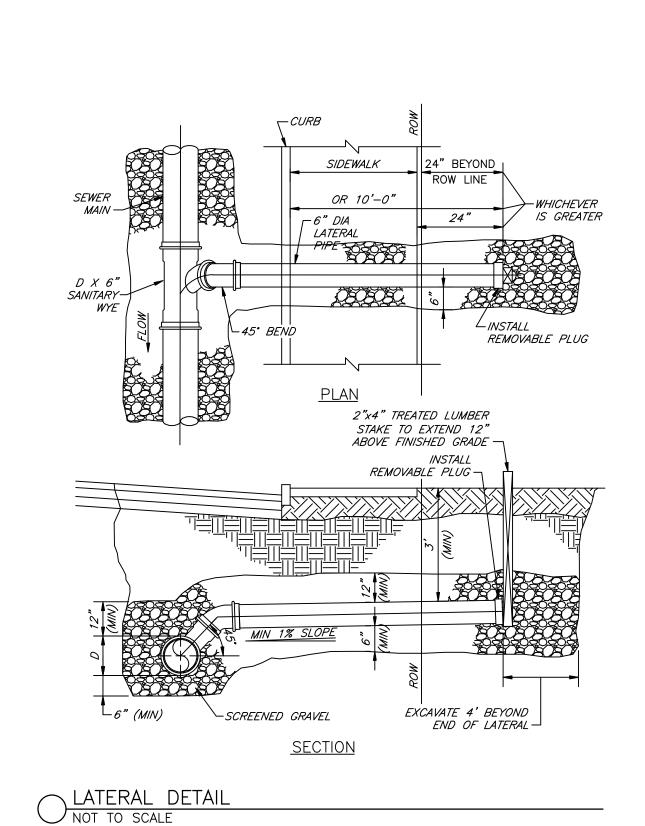
GRAVEL) AND BEDDING

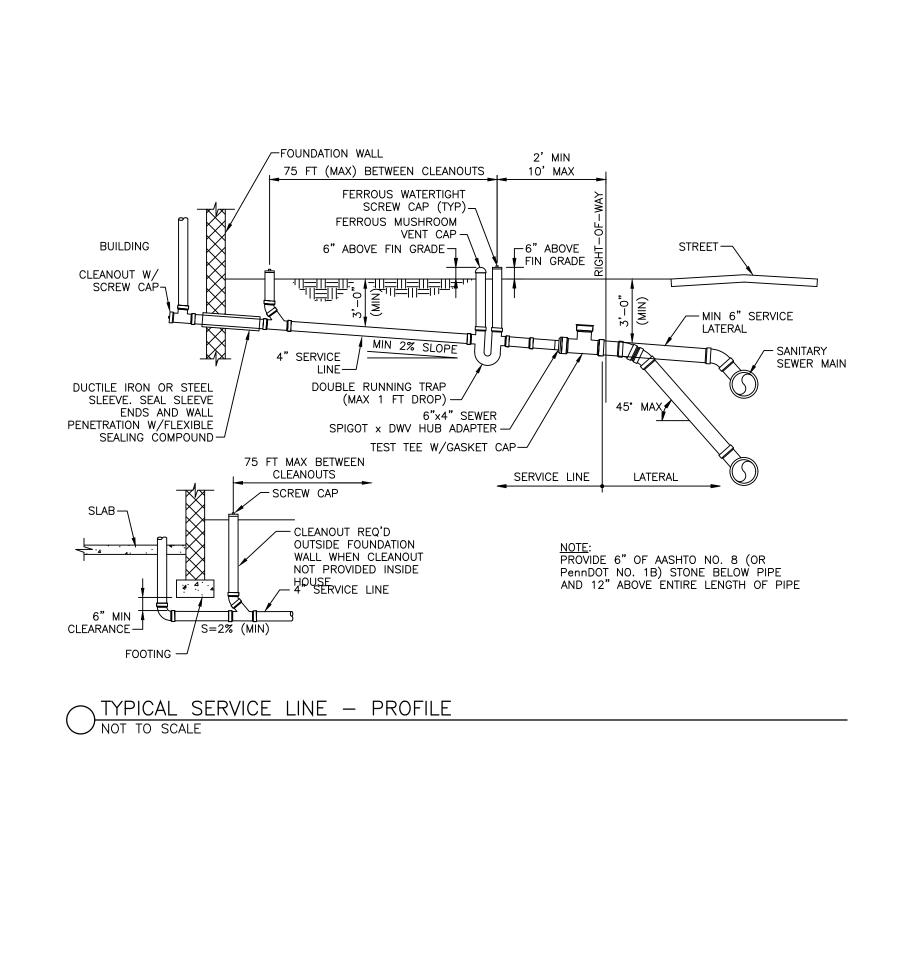
-UNDISTURBED

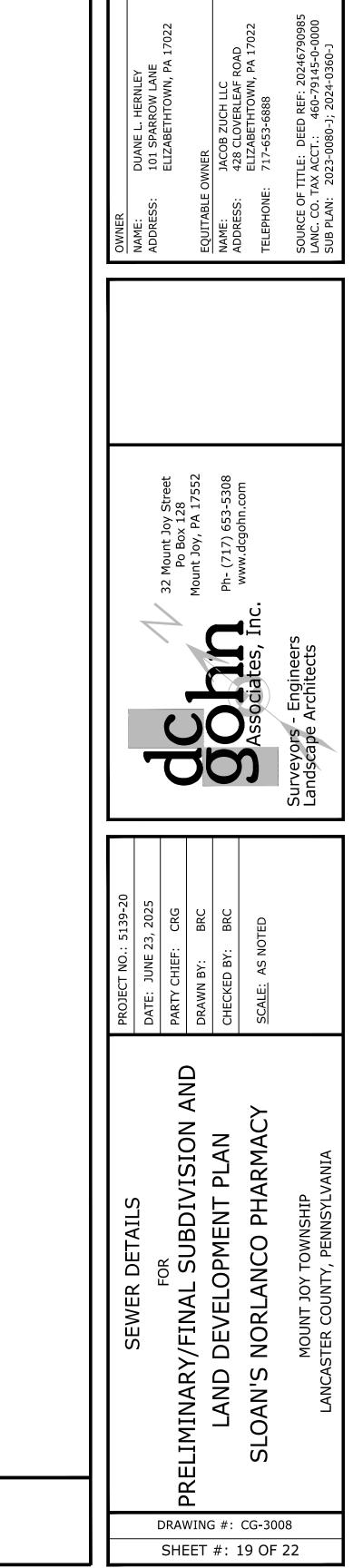
*EARTH* 

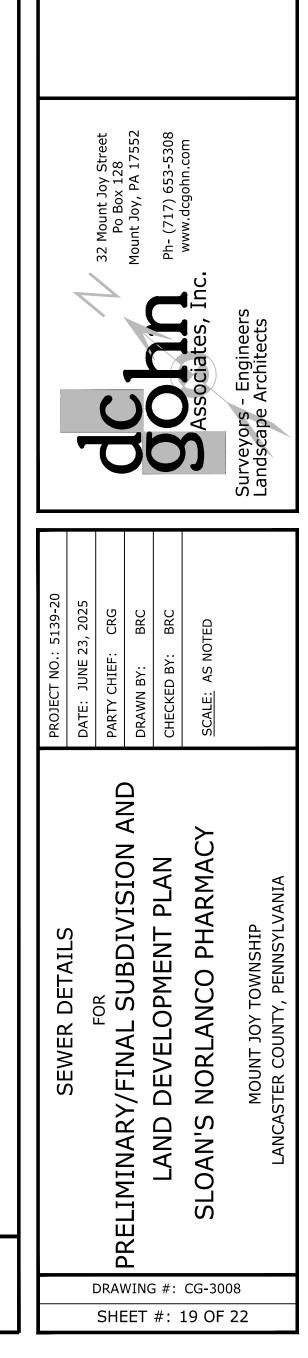
STONE BACKFILL (SCRÉENED

WEARING COURSE









.C.P.C. #:

