	NERAL NOTES:	
1.	BENCHMARK: IRON PIN LOCATED NEAR THE PROPOSED ENTRANCE OF THE PROPERTY ON THE EAST SIDE OF 8TH AVENUE, ELEVATION: 524-58'	NORTH LEBANON TOWNS ZONING DISTRICT: HIGH D
•	VERTICAL DATUM: NAVD 88 HORIZONTAL DATUM: NAD83 - COR 96	
	MATTHEW & HOCKLEY ASSOCIATES, LTD. PERFORMED THE SURVEY AS SHOWN HEREON ON JULY 3, 2019. UNDERGROUND UTILITIES ARE SHOWN ACCORDING TO INFORMATION PROVIDED BY OTHERS AND MUST BE FIELD VERIFIED PRIOR TO	ZONING REQUIREMENTS:
0.	CONSTRUCTION, EXCAVATION OR BLASTING. THE ACTUAL LOCATIONS OF THESE UTILITIES HAVE NOT BEEN FIELD VERIFIED AND THE LOCATIONS ARE APPROXIMATE. CHRISLAND ENGINEERING DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE, OR	ACCESSORY STRUCTURE
	GUARANTEE THAT THE UNDERGROUND UTILITY LOCATION PROVIDED BY OTHERS AND REFLECTED ON THESE DRAWINGS ARE	GARDEN APARTMENTS, P A. MAXIMUM
	CORRECT AND ACCURATE. CHRISLAND ENGINEERING. ASSUMES NO RESPONSIBILITY FOR ANY DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.	ACRE," WE B. A MINIMUI
	NO FLOOD ZONE EXISTS ON THIS SITE ACCORDING TO FLOOD INSURANCE RATE MAP FOR LEBANON COUNTY, PENNSYLVANIA (ALL JURISDICTIONS), COMMUNITY NUMBER 421131, MAP NUMBER 42075C0257E, EFFECTIVE DATE JULY 8, 2020.	C. GARDEN A STRUCTU
	THE WETLANDS DEPICTED WERE IDENTIFIED VIA A WETLANDS DELINEATION REPORT PREPARED BY VORTEX ENVIRONMENTAL, INC. DATED JANUARY 3, 2020.	D. A MINIMUI AREA. ADI
6.	ANY REVISION TO THESE PLANS AFTER THE DATE OF PLAN PREPARATION OR LATEST REVISION DATE SHALL NOT BE THE RESPONSIBILITY OF CHRISLAND ENGINEERING.	E. A MINIMU
	NO ONE SHALL SCALE FROM THESE PLANS FOR CONSTRUCTION PURPOSES. THE INFORMATION SHOWN ON THIS DRAWING MAY HAVE ALSO BEEN PROVIDED BY DIGITAL FILE. AFTER A DIGITAL FILE IS RELEASED	F. THE SITE
	FROM CHRISLAND ENGINEERING THE VIEWER IS THEREFORE CAUTIONED TO COMPARE ANY SUBSEQUENT REPRODUCTIONS OF THIS DATA WITH THE ORIGINAL HARD COPY SEALED PLAN.	THAN EIGI
Э.	ALL SITE DEVELOPMENT SHALL BE DONE IN ACCORDANCE WITH FEDERAL, STATE, COUNTY, AND TOWNSHIP STANDARDS AND REQUIREMENTS.	72 SQUAR H. PATIOS SH
0.	CHRISLAND ENGINEERING HAS NOT PERFORMED ANY SUBSURFACE INVESTIGATIONS GEOLOGICAL STUDIES, SOUNDINGS OR EVALUATIONS OF THE SUBSURFACE CONDITIONS PRESENT THROUGHOUT THE SITE OTHER THAN THE PROVIDED PROBE AND	I. GARDEN A
	INFILTRATIONS OF THE SUBSONTACE CONDITIONS PRESENT THINOUGHOUT THE SITE OTHER THAN THE PROVIDED PROBE AND INFILTRATIONS TESTS. NUMEROUS UNKNOWN GEOLOGICAL SITE CONDITIONS AND THE UTILIZATION OF NUMEROUS CONSTRUCTION PRACTICES MEAN THAT CHRISLAND ENGINEERING CANNOT CONSIDER EVERY POTENTIAL GEOLOGICAL IMPACT CAUSED BY	J. OFF-STRE DWELLING
	CONSTRUCTION ON ANY PORTION OF THE SITE WHICH IS THE SUBJECT OF THIS PLAN.	25 FEET F K. GARDEN A
1.	IT IS THE RESPONSIBILITY OF THE LANDOWNER, LAND PURCHASER, OR PROSPECTIVE BUYER OF ANY PORTION OF THE SITE DEPICTED ON THIS PLAN TO PERFORM THEIR OWN INDIVIDUAL EVALUATION OF THE GEOLOGY OF THIS SITE TO ASCERTAIN THE GEOLOGICAL	LAND SUB
	FORMATION(S) WHICH UNDERLAY IT, AND THE IMPACT WHICH THOSE FORMATION(S) MAY HAVE UPON THEIR LAND OR ANY CONSTRUCTION PROPOSED THEREON, INCLUDING THE ABILITY TO CONSTRUCT THE REQUIRED STORM WATER MANAGEMENT	§27-604. SUPPLEMENTAL 2-2001, 12/26/2001, § IV]
2.	FACILITIES AND OTHER SITE WORK IN ACCORDANCE WITH THE APPROVED SUBDIVISION PLAN. CHRISLAND ENGINEERING SHALL NOT BE RESPONSIBLE FOR THE COST OF ANY ROCK REMOVAL, SINKHOLES, SOLUTION CHANNELS OR	1. THE FOLLOWING DE DEVELOPMENT:
	ROCK FRACTURES, OR FOR THE CONSTRUCTION, ENGINEERING, PERMITTING AND INSPECTION COST IMPACT WHICH ANY OF THESE GEOLOGICAL FEATURES MAY HAVE UPON THE LAND OWNER.	A. THE DEVE
).	MATERIALS AND DETAILS SPECIFIED ON THE APPROVED PLAN SHALL NOT BE ALTERED DURING CONSTRUCTION WITHOUT WRITTEN APPROVAL BY THE TOWNSHIP.	AND BETV ELEVATIO
ŀ.	THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS ON SITE PRIOR TO THE START OF CONSTRUCTION. UNDERGROUND UTILITIES HAVE BEEN SHOWN ACCORDING TO INFORMATION PROVIDED BY OTHERS AND MUST BE FIELD VERIFIED	MATERIAL B. VARIETY A
	PRIOR TO CONSTRUCTION, EXCAVATION OR BLASTING. THE ACTUAL LOCATIONS OF THESE UTILITIES HAVE NOT BEEN FIELD VERIFIED	RECREAT CHARACT
	AND THE LOCATIONS ARE APPROXIMATE.CHRISLAND ENGINEERING DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE UNDERGROUND UTILITY LOCATION INFORMATION PROVIDED BY OTHERS AND REFLECTED ON THESE	C. DENSE SC NONRESI
	DRAWINGS IS CORRECT AND ACCURATE. CHRISLAND ENGINEERING ASSUMES NO LIABILITY FOR ANY DAMAGE INCURRED AS A RESULT OF UNDERGROUND UTILITIES OMITTED OR INACCURATELY SHOWN.	DISTRICT. REQUIRE
	ALL IMPROVEMENTS SHALL BE INSPECTED BY THE COUNTY ENGINEER AND/OR ROADMASTER. INSPECTIONS SHALL BE REQUIRED PRIOR TO THE START OF CONSTRUCTION, DURING INSTALLATION OF MATERIALS AND STRUCTURES, AND UPON THE COMPLETION OF	D. ALL UTILI E. ALL OPEN
	ALL IMPROVEMENTS. PRIOR TO THE INITIATION OF CONSTRUCTION, THE DEVELOPER SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE COUNTY	INSURE TH
	ENGINEER AND / OR ROADMASTER SO THAT A DEVELOPER'S AGREEMENT CAN BE AGREED UPON AND AN INSPECTION SCHEDULE CAN BE COORDINATED WITH THE CONSTRUCTION SCHEDULE. THE COUNTY ENGINEER AND/OR ROADMASTER SHALL BE NOTIFIED TWO	F. EXTERIOF SIDED, GA
	WORKING DAY IN ADVANCE OF ANY INTENDED DATE OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED	
	SERVICE. DAMAGE TO ANY UTILITY SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER, UTILITY COMPANY OR AUTHORITY, AT	§27-604.1. SUPPLEMENTA
	THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS FROM THE MUNICIPALITY, COUNTY, STATE OR AUTHORITY	1. COMMON OPEN SPACE A. THE GARE
	RELATIVE TO CONSTRUCTION SHOWN ON THIS PLAN. THE CONTRACTOR IS RESPONSIBLE FOR ALL TESTING AND RECORD DRAWINGS AS MAY BE REQUIRED BY THE MUNICIPALITY AND/OR	APARTME NOT LIMIT
	THE VARIOUS AUTHORITIES RELATIVE TO THE CONSTRUCTION SHOWN ON THESE PLANS. THE DEVELOPER SHALL BE FINANCIALLY RESPONSIBLE FOR ANY ATTORNEY FEES WHERE THE ATTORNEY IS ENGAGED ON BEHALF OF	FOR RESI BOARD OI
	THE TOWNSHIP/AUTHORITY RELATING TO THE REVIEW OF THE SUBDIVISION PLANS OR LAND DEVELOPMENT PLANS THAT ARE SUBMITTED TO THE TOWNSHIP/AUTHORITY. THESE FEES ARE IN ADDITION TO SUBMISSION FEES CHARGED BY THE TOWNSHIP AND	B. THE PARK COMMON
	AUTHORITY. PAYMENT OF ALL INVOICES IS DUE AND PAYABLE WITHIN 30 DAYS OF RECEIPT BUT IN ALL CASES PRIOR TO PLAN APPROVAL BY THE BOARD OF SUPERVISORS. ANY QUESTIONS ON INVOICES MUST BE REPORTED TO THE TOWNSHIP/AUTHORITY IN	§ 27-1405. SCHEDULE OF
	WRITING WITHIN 10 DAYS OF RECEIPT OF THE BILL. ALL PROPOSED SIGNS SHALL BE IN ACCORDANCE WITH THE NORTH LEBANON TOWNSHIP ZONING ORDINANCE.	12/26/2001, IV; BY ORD. 1
	THE PROPOSED SITE IS LOCATED WITHIN THE "LEBANON COUNTY RESIDUAL" STORMWATER MANAGEMENT DISTRICT. ALL APPLICABLE CORNER MARKERS SHALL BE SET UPON APPROVAL OF THE FINAL SUBDIVISION PLAN. RESETTING OF CORNER	
	MARKERS AFTER CONSTRUCTION OF THE DWELLINGS AND BUILDINGS SHOWN HEREON SHALL BE THE RESPONSIBILITY OF THE DEVELOPER OR LOT OWNER.	APPROPRIATE WHEN COM AREA OF STRUCTURES (E
	ALL PROPOSED UTILITIES SHALL BE UNDERGROUND.	NEEDS OF THE USE.
	ALL PROPOSED STREET SIGNS SHALL BE INSTALLED BY THE DEVELOPER. INSTALLATION AND SIGN TYPE SHALL BE IN ACCORDANCE WITH THE TOWNSHIP AND/OR PENNDOT SPECIFICATIONS.	STRUCTURE OR USE RESIDENTIAL
	ALL STREET LIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH METROPOLITAN-EDISON STANDARDS AND NORTH LEBANON TOWNSHIP STANDARDS. THE EXACT TYPE, NUMBER, AND LOCATION OF STREET LIGHTS SHALL BE APPROVED BY	MULTI-FAMILY RESIDENCI (INCLUDING TOWNHOUSE
	METROPOLITAN-EDISON AND NORTH LEBANON TOWNSHIP PRIOR TO INSTALLATION. ALL PUBLIC WATER FACILITIES SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT TOWNSHIP AND CITY OF LEBANON AUTHORITY	GARDEN APARTMENTS)
	SPECIFICATIONS AND DETAILS. CLEAR SIGHT TRIANGLES SHALL BE KEPT CLEAR OF ANY OBSTRUCTIONS WITH A HEIGHT GREATER THAN 30 INCHES.	APARTMENT PARKING CA REQUIRED: 3 SPACES PEI
	THE RESIDUAL LOT SHALL HAVE A FINAL LAND DEVELOPMENT PLAN APPROVED SUBJECT TO THE NORTH LEBANON TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE PRIOR TO THE ISSUANCE OF ANY BUILDING PERMITS	LOT 24 - 3 BUI LOT 25 - 2 BUI
	ALL PLAN SHEETS, INCLUDING THE APPROVED POST-CONSTRUCTION STORMWATER MANAGEMENT REPORT AND EROSION AND SEDIMENT POLLUTION CONTROL REPORT ARE PART OF THIS PLAN AND ARE ENFORCEABLE AS IF THEY APPEARED IN TOTAL HEREIN	PROVIDED: LOT 23 - 2 BO PROVIDED: LOT 24 - PRO LOT 24 - PRO
	THE INSTALLATION OF A KNOX LOCK BOX PRIOR TO THE ISSUANCE OF AN OCCUPANCY PERMIT IS REQUIRED PER ORDINANCE 2-2010. A STREET CUT PERMIT AND BONDING WILL BE REQUIRED FROM NORTH LEBANON TOWNSHIP FOR ALL UTILITY CONNECTIONS.	LOT 25 - PROV
	ALL SANITARY SEWER CONSTRUCTION SHALL BE COMPLETED PER THE RULES AND REGULATIONS OF THE NORTH LEBANON TOWNSHIP	
	MUNICIPAL AUTHORITY. ALL SHOP DRAWINGS SHALL BE SUBMITTED TO THE DESIGN ENGINEER AND MARKED APPROVED PRIOR TO SUBMISSION TO NORTH LEBANON TOWNISHIP AND LEBANON COUNTY.	GARAGE RESTRICTION NO 1. TENANT IS PROHIBI
	LEBANON TOWNSHIP AND LEBANON COUNTY. THE HOA SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPLACEMENT OF THE GANG MAILBOXES AND THE YELLOW CROSS	2. TENANT MAY NOT U PARK VEHICLES AN
	HATCH LINES IN FRONT OF MAILBOXES. THE PLACEMENT AND CONFIGURATION OF THE MAILBOXES SHALL BE APPROVED BY NORTH LEBANON TOWNSHIP AND THE POST MASTER.	VEHICLES.

geology.

Joshua T. Weaber, P.E.

ORTH LEBANON TOWNSHIP

STRUCTURE

72 SQUARE FEET.

-	2-2001.	12/26/2	2001, § IV]
			LOWING DESIGN CRITERIA SHALL APPLY AS ADDITIONAL REQUIREMENTS FOR TOWNHOUSE AND GARDEN APARTMENT
	DE	VELOF	PMENT:
		Α.	THE DEVELOPER SHOULD VARY ARCHITECTURAL TREATMENTS WITHIN APARTMENT PROJECTS, INDIVIDUAL APARTMENT
			AND BETWEEN DWELLING UNITS IN A TOWNHOUSE DEVELOPMENT. VARIATIONS MAY INCLUDE THOSE OF EXTERIOR
			ELEVATION, BUILDING SETBACKS, PROVISIONS OF BALCONIES, ARCHITECTURAL DETAILS, PITCH OF ROOF, EXTERIOR
			MATERIALS OR USE OF COLOR.
		В.	VARIETY AND FLEXIBILITY IN DESIGN LAYOUT AND ARRANGEMENT OF BUILDINGS, PARKING AREAS, SERVICES,
			RECREATION AREAS, COMMON OPEN SPACE AND PLANTINGS THAT FULLY CONSIDER THE PARTICULAR PHYSICAL
			CHARACTERISTICS OF SITE AND NATURAL AMENITIES IS HIGHLY DESIRED.
		C.	DENSE SCREEN PLANTINGS SHALL BE PROVIDED WHERE MULTIPLE DWELLING UNIT LAND DEVELOPMENTS ABUT ANY
			NONRESIDENTIAL USE OR WHERE SUCH DEVELOPMENTS ABUT ANY SINGLE-FAMILY RESIDENTIAL OR OTHER ZONING
			DISTRICT. SCREEN PLANTINGS SHALL BE DESIGNED, LOCATED AND MAINTAINED IN ACCORDANCE WITH THE
			REQUIREMENTS OF PART 12 OF THIS CHAPTER.
		D.	ALL UTILITY LINES WITHIN A TOWNHOUSE OR GARDEN APARTMENT DEVELOPMENT SHALL BE PLACED UNDERGROUND.
		E.	ALL OPEN SPACE, GREEN AREAS, PATIOS, COURTS AND BUFFER YARDS SHALL BE LANDSCAPED AND MAINTAINED TO
			INSURE THE SAFETY, PRIVACY AND COMFORT OF TOWNHOUSE AND GARDEN APARTMENT RESIDENTS.
		F.	EXTERIOR STORAGE AREAS FOR TRASH AND RUBBISH SHALL BE ON A CONCRETE PAD AND SCREENED WITH A FOUR

I. COMMON OPEN SPACE AREAS.

Α.	THE GARDEN APARTME
	APARTMENT LAND AREA
	NOT LIMITED TO, SUCH F

FOR RESIDENTS, EITHER
BOARD OF SUPERVISOR
THE PARK SHALL HAVE

υ.	
	COMMON AREA MAY BE

§27-1405.	SCHED	ULE OF	REQUI	RED OF
12/26/20	01, IV; B	Y ORD.	1-2007,	5/21/200

THE MINIMUM NUMBER OF OFF-STREET
APPROPRIATE WHEN COMPUTING THE
AREA OF STRUCTURES (E.G. STORAGE
NEEDS OF THE USE.

STRUCTUR	EOR	USE

RESIDENTIAL MULTI-FAMILY RESIDENCE INCLUDING TOWNHOUSES AND GARDEN APARTMENTS)

APARTMENT PARKING CALCULATION:

IRED.	3 35	ACE	3 PER		νοι	211112	PER
	LOT	24 -	3 BUI	LDING	SS, RE	EQUIR	ED
	LOT	25 -	2 BUI	LDING	SS, RE	EQUIR	ED
IDED:	LOT	24 -	PRO\	/IDED	48 SI	PACE	S
	LOT	24 -	PROV	/IDED	GAR	AGES	24
	LOT	25 -	PROV	/IDED	32 SF	PACES	3
	LOT	25 -	PROV	/IDED	GAR	AGES	16

GARAGE RESTRICTION NOTES:

VEHICLES.

		2. A DECLARATION OF COVENANTS, RESTRICTION IN THE OFFICE OF THE RECORDER OF DEEDS C
		 FIRST AMENDMENT TO DECLARATION OF COVE HAS BEEN RECORDED IN THE OFFICE OF THE R "DECLARATION").
		 THE DECLARANT HAS ESTABLISHED OR WILL E OUT THE OBLIGATIONS AND DUTIES DESCRIBE
		5. THE DECLARATION:
		a. ESTABLISHES AND ALLOCATES PERCENT COMMON EXPENSE LIABILITIES;
		 DEFINES "COMMON ELEMENTS" AND "CON RESPONSIBILITIES FOR THEM;
RECORDER OF DEEDS		c. DESCRIBES CERTAIN EASEMENTS WITH F
Recorded in the office for Recording of Deeds, in and for Lebanon County,		d. ESTABLISHES USE AND OCCUPANCY RES
Pennsylvania, in Subdivision Plan Book, Volume, Page, Witness my hand and seal of office this day of		e. ESTABLISHMENTS REQUIREMENTS FOR L f. ESTABLISHES RULES FOR THE ASSESSME
Page Witness my hand and seal of office this day of A.D., 20		
A.D., 20		g. DEFINES THE "DECLARANT CONTROL PER
		h. DELINEATES THE POWERS OF THE ASSO
		 ALL PURCHASERS OF UNITS IN TOWN'S EDGE E SET FORTH IN THE DECLARATION AND WILL BE
, 20		SET FORTH IN THE DECLARATION AND WILL BE
Recorder of Deeds		
LEBANON COUNTY PLANNING DEPARTMENT	NORTH LEBANON TOWNSHIP PLANNING COMMISSION REVIEW CERTIFICATE	CERTIFICATE OF OWNERSHIP, ACKNOWLEDGEM DEDICATION
		COMMONWEALTH OF PENNSYLVANIA
, 20		COUNTY OF LEBANON
Reviewed		
	Reviewed	On this, the day of the undersigned officer, personally appeared Da
NORTH LEBANON TOWNSHIP ENGINEER	NORTH LEBANON TOWNSHIP SUPERVISORS	sworn according to law, deposes and says that the
	The North Lebanon Township Board of Supervisors has reviewed and accepted this	property shown on this plan, that the plan thereof was
	plan as submitted or as revised to the date of signatures affixed hereto. No other plan	acknowledge the same to be his act and plan, that
	or plans shall be recognized. Acceptance includes all documentation including the	recorded, and that all streets and other property identi
, 20	comments or requirements of official reviewing individuals or agencies. acceptance is	(excepting those areas labeled "NOT FOR DEDICATIO
Reviewed	based on compliance with applicable ordinances, rules and regulations, and shall not	public use. They also hereby acknowledges that thi
	be construed as a guarantee to any person or organization that the design of any part of the plan will function as anticipated under any or all conditions or situations.	development may be subject to the requirements of Federal regulations.
PLAN CERTIFICATE	Additionally, that by review and/or acceptance of the plan, the Township expressly	
I hereby certify that, to the best of my knowledge, the plan shown and described hereon	declines the assumption of liability for errors, omissions or mistakes in judgement in the	
is true and correct to the accuracy required by the Lebanon County and North Lebanon	design, engineering, construction, or expected function of the matters reviewed and/or	
Township Ordinances.	accepted.	
		Owner

, 20 Joshua T. Weaber, P.E.	Approved	Date	
CARBONATE GEOLOGY CERTIFICATION I, Joshua T. Weaber, P.E., to the best of my knowledge, certify that the proposed	Approved		My Commission Expires

stormwater management facilities (circle one) are are no underlain by carbonate

pproved

ACCESSORY STRUCTURE SETBACK: FIVE (5) FEET.

GARDEN APARTMENTS, PROVIDED THAT THE FOLLOWING CONDITIONS ARE MET: A. MAXIMUM DEVELOPMENT DENSITY SHALL NOT EXCEED 12 DWELLING UNITS PER GROSS ACRE. IN DETERMINING A "GROSS ACRE," WETLANDS, EASEMENTS, STORMWATER DETENTION FACILITIES, R-O-W AND UNUSABLE LAND SHALL BE EXCLUDED. A MINIMUM SITE SIZE OF 24,000 SQUARE FEET SHALL BE PROVIDED FOR GARDEN APARTMENT DEVELOPMENT. GARDEN APARTMENT BUILDINGS SHALL CONTAIN AT LEAST FOUR BUT NOT MORE THAN 12 DWELLING UNITS IN A SINGLE

D. A MINIMUM SETBACK OF 30 FEET SHALL BE PROVIDED FROM ANY ROAD RIGHT-OF-WAY, DRIVEWAY OR PAVED PARKING AREA. ADDITIONALLY, THE BUILDING SETBACK LINE SHALL BE A MINIMUM DISTANCE OF 30 FEET FROM ANY FRONT, SIDE

OR REAR PROPERTY LINE. A MINIMUM ISOLATION DISTANCE OF 75 FEET SHALL BE PROVIDED BETWEEN GARDEN APARTMENT BUILDINGS. THE SITE SHALL BE SERVED BY PUBLIC WATER AND PUBLIC SEWER FACILITIES. BALCONIES SHALL BE REQUIRED FOR FACH DWELLING UNIT ABOVE THE GROUND FLOOR AND SHALL NOT EXTEND MORE THAN EIGHT FEET FROM THE FACE OF ANY PRINCIPAL BUILDING. THE MINIMUM FLOOR AREA OF ANY BALCONY SHALL BE

H. PATIOS SHALL BE PROVIDED AT GROUND LEVEL, AND THEY SHALL BE DESIGNED FOR VISUAL PRIVACY AND SHALL BE A MINIMUM OF 150 SQUARE FEET.

GARDEN APARTMENT DEVELOPMENT SHALL BE IN COMPLIANCE WITH 27-604 OF THIS CHAPTER. OFF-STREET PARKING, AS REQUIRED BY PART 14 OF THIS CHAPTER, SHALL BE LOCATED WITHIN 100 FEET OF THE DWELLING UNIT TO BE SERVED. FURTHERMORE, PARKING FACILITIES AND DRIVEWAYS SHALL BE LOCATED NO LESS THAN 25 FEET FROM ANY ROAD RIGHT-OF-WAY AND 10 FEET FROM ALL OTHER PROPERTY LINES. GARDEN APARTMENT DEVELOPMENT REQUIRES THE SUBMISSION OF A SUBDIVISION PLAN AND COMPLIANCE WITH THE LAND SUBDIVISION REGULATIONS OF NORTH LEBANON TOWNSHIP.

HOUSE AND GARDEN APARTMENT STANDARDS. [ORD. 6-4-84, 6/4/1984, § 9.04; AS AMENDED BY ORD.

EEN AREAS, PATIOS, COURTS AND BUFFER YARDS SHALL BE LANDSCAPED AND MAINTAINED TO RIVACY AND COMFORT OF TOWNHOUSE AND GARDEN APARTMENT RESIDENTS. AREAS FOR TRASH AND RUBBISH SHALL BE ON A CONCRETE PAD AND SCREENED WITH A FOUR SIDED, GATED FENCE. THE CONTAINER SHALL BE COVERED AND VERMIN-PROOFED.

§27-604.1. SUPPLEMENTAL GARDEN APARTMENT REQUIREMENTS. [ORD. 6-4-84, 6/4/1984; AS ADDED BY ORD. 2-2001, 12/26/2001, § IV]

NTS SHALL BE PROVIDED WITH A COMMON AREA NOT LESS THAN 10% OF THE GROSS GARDEN A, WHICH SHALL BE FOR THE ENJOYMENT OF ALL RESIDENTS. THE AREAS MAY INCLUDE, BUT ARE FACILITIES AS SERVICE BUILDINGS FOR MEETING ROOMS, LAUNDROMATS, STORAGE CUBICLES R INDIVIDUALLY OR COLLECTIVELY, AND SUCH OTHER FACILITIES AS MAY BE APPROVED BY THE RS OF NORTH LEBANON TOWNSHIP.

AT LEAST HALF ITS COMMON AREA AT ONE CONTINUOUS LOCATION, AND NOT MORE THAN HALF ITS IN THE BUFFER YARD.

DFF-STREET PARKING SPACES. [ORD. 6-4-84, 6/4/1984, § 17.05; AS AMENDED BY ORD. 2-2001, 2007, § XV; AND BY ORD. 2-2014, 5/19/ 2014, § VIII]

PARKING SPACES REQUIRED FOR A SPECIFIC USE IS LISTED IN THE FOLLOWING CHART. WHERE NUMBER OF REQUIRED PARKING SPACES, THE ZONING ADMINISTRATOR MAY EXCLUDE FLOOR EMPLOYEE LOUNGE, BATHROOM) WHICH DOES NOT BEAR ANY RELATIONSHIP TO THE PARKING

PARKING SPACES REQUIRED

3 SPACES PER DWELLING UNIT

REQUIRED: 3 SPACES PER UNIT X 8 UNITS PER BUILDING = 24 SPACES PER BUILDING JIRED 72 SPACES

> JIRED 48 SPACES ES ES 24 CES

TENANT IS PROHIBITED FROM SUBLEASING OR OTHERWISE RENTING ANY GARAGE ASSIGNED TO TENANT TO ANY THIRD PARTY; AND TENANT MAY NOT UTILIZE ANY GARAGE ASSIGNED TO TENANT PRIMARILY FOR STORAGE. GARAGES MUST PRIMARILY BE USED TO PARK VEHICLES AND ANY STORAGE OF A TENANT'S BELONGINGS MUST BE SECONDARY TO THE PRIMARY USE OF STORING

DECLARATION OF COVENANTS, RESTRICTIONS AND EASEMENTS PLAN NOTES

THE REAL ESTATE DESCRIBED AND DEPICTED HEREIN CONSTITUTING THE TOWN'S EDGE DEVELOPMENT ARE BEING SUBMITTED TO THE PROVISIONS OF THE PENNSYLVANIA UNIFORM PLANNED COMMUNITY ACT, 68 PA. C.S. §5101 ET SEQ., AS AMENDED. ONS AND EASEMENTS FOR TOWN'S EDGE, A PLANNED COMMUNITY, HAS BEEN RECORDED OF LEBANON COUNTY IN PLAN BOOK 2296, PAGE 9478 (THE "DECLARATION"). ENANTS, RESTRICTIONS AND EASEMENTS FOR TOWN'S EDGE, A PLANNED COMMUNITY, RECORDER OF DEEDS OF LEBANON COUNTY IN PLAN BOOK _____, PAGE _____ (THE

> ESTABLISH A NON-PROFIT UNIT OWNERS ASSOCIATION FOR PURPOSES OF CARRYING ED IN THE DECLARATION.

TAGE INTERESTS APPURTENANT TO EACH UNIT FOR PURPOSES OF VOTING AND

NTROLLED FACILITIES" AND ESTABLISHES ASSOCIATION MAINTENANCE

RESPECT TO UNITS AND COMMON AREAS;

STRICTIONS FOR UNITS; LEASING OF UNITS;

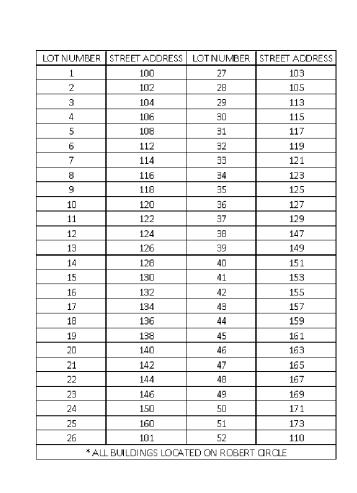
IENTS AND COLLECTION OF COMMON EXPENSES AND OTHER ASSESSMENTS; RIOD" AND "SPECIAL DECLARANT RIGHTS"; AND

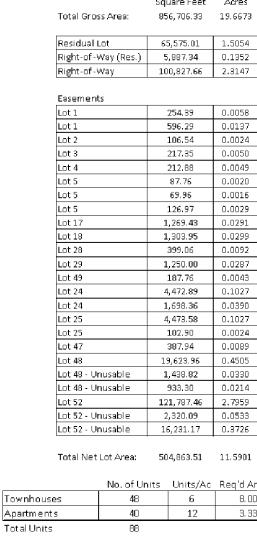
CIATION. DEVELOPMENT WILL BE SUBJECT TO THE COVENANTS, RESTRICTIONS AND EASEMENTS MEMBERS OF THE ASSOCIATION ESTABLISHED THEREBY

IENT OF PLAN AND OFFER OF CERTIFICATE OF OWNERSHIP, ACKNOWLEDGEMENT OF PLAN AND OFFER OF DEDICATION COMMONWEALTH OF PENNSYLVANIA COUNTY OF LEBANON 20____, before me, On this, the ____ ____ day of ___ niel Martin _____, who being duly the undersigned officer, personally appeared MICHAEL CHARLES, who being duly ey are the <u>OWNER</u> of the sworn according to law, deposes and says that they are a Representative of TOWNS made at their direction, that they EDGE APARTMENTS, LLC, which is the EQUITABLE OWNER of the property shown nat they desire the same to be on this plan, that the plan thereof was made at their direction, that they acknowledge tified as proposed public property the same to be his act and plan, that they desire the same to be recorded, and that all ON") are hereby dedicated to the streets and other property identified as proposed public property (excepting those nis proposed subdivision or land areas labeled "NOT FOR DEDICATION") are hereby dedicated to the public use. They

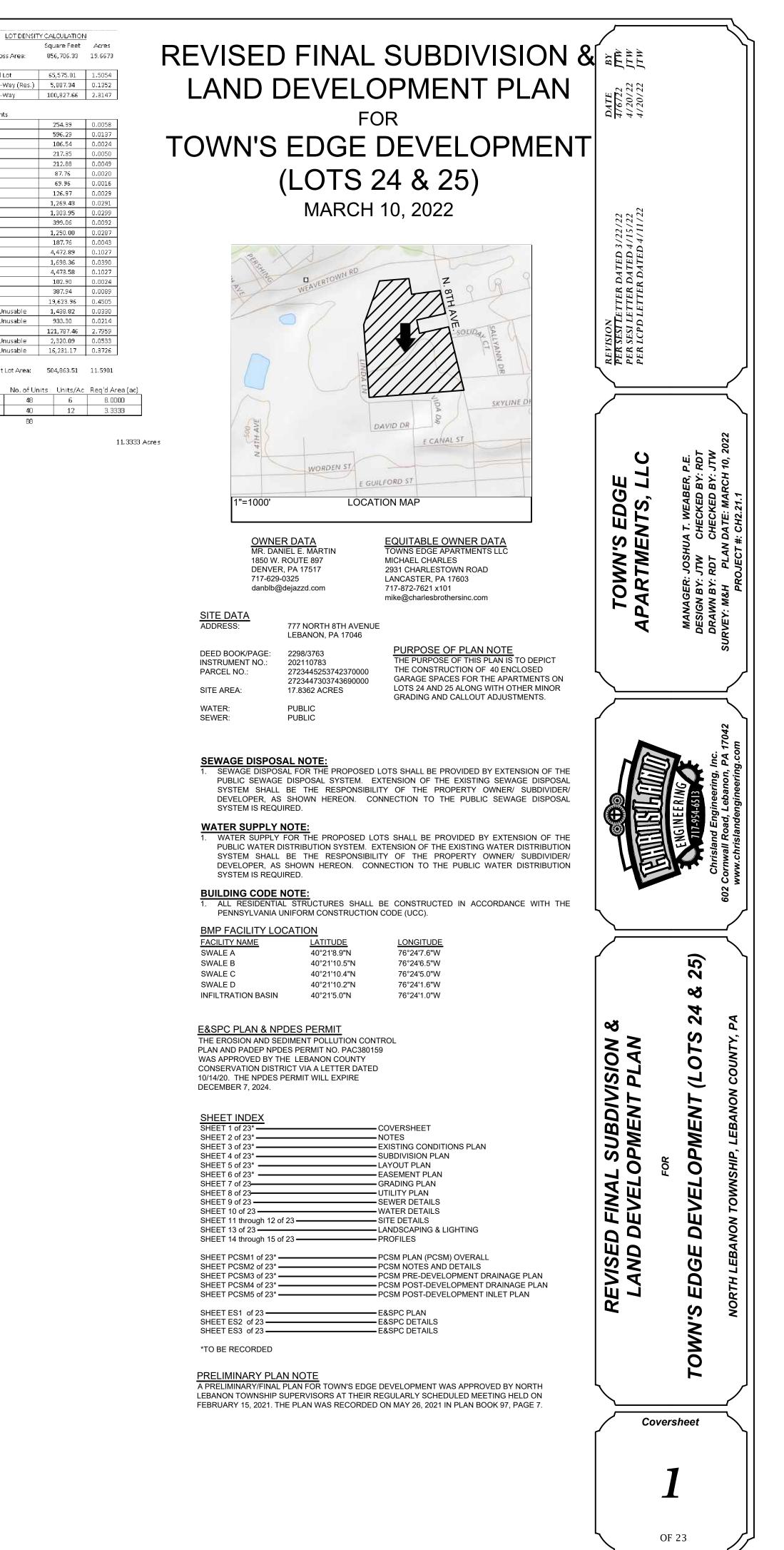
before me additional Township, State and also hereby acknowledges that this proposed subdivision or land development may be subject to the requirements of additional Township, State and Federal regulations.

Equitable Owner My Commission Expires





Total Area Required



HOME OWNER'S ASSOCIATION NOTES

COMMON ELEMENTS; CONTROLLED FACILITIES

- DESCRIPTION OF COMMON ELEMENTS. THE FOLLOWING, AS MORE FULLY DEPICTED ON THE SUBDIVISION PLAN, SHALL BE COMMON ELEMENTS AND SHALL BE OWNED AND MAINTAINED BY THE ASSOCIATION, UNLESS OTHERWISE SET FORTH HEREIN:
- 1. WETLANDS AREAS DESCRIBED AND DEPICTED AS LOT 48 ON THE SUBDIVISION PLAN.
- 2. PERMANENT STORM WATER CONVEYANCE AND MANAGEMENT FACILITIES (INCLUDING, BUT NOT LIMITED TO, BASINS, SWALES INLETS, HEADWALLS, ENDWALLS, ROOF DRAIN COLLECTORS, AND UNDERGROUND STORAGE/DETENTION SYSTEMS) NOT LOCATED WITHIN STREET RIGHTS OF WAY AS DESCRIBED AND DEPICTED AS LOT 52 ON THE SUBDIVISION PLAN, AND AS 2. WATER SYSTEMS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE CURRENT CITY OF LEBANON DESCRIBED IN THE SUBDIVISION/LAND DEVELOPMENT/STORMWATER MANAGEMENT ("SWM") SITE PLAN FOR TOWN'S EDGE DEVELOPMENT RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS OF LEBANON COUNTY IN PLAN BOOK . PAGE (THE "SWM PLAN"), THE SWM BEST MANAGEMENT PRACTICES ("BMP") OPERATION AND MAINTENANCE PLAN AS APPROVED OR TO BE APPROVED BY LEBANON COUNTY AND NORTH LEBANON TOWNSHIP (THE "BMP PLAN) AND ANY OTHER WRITTEN AGREEMENTS ENTERED INTO BY DECLARANT AND/OR NORTH LEBANON TOWNSHIP AND RECORDED OR TO BE RECORDED IN THE OFFICE OF THE LEBANON COUNTY RECORDER OF DEEDS.
- 3. RETAINING WALLS IDENTIFIED AND DEPICTED IN THE SUBDIVISION PLAN, INCLUDING ANY PORTION THEREOF LOCATED OR TO BE LOCATED IN THE PUBLIC RIGHT-OF-WAY.
- CONTROLLED FACILITIES. THE CONTROLLED FACILITIES ARE THOSE PARTS OF THE PLANNED COMMUNITY, WHETHER OR NOT PART OF A UNIT. THAT ARE NOT A COMMON ELEMENT BUT ARE MAINTAINED, IMPROVED, REPAIRED, REPLACED, REGULATED, MANAGED OR 7. ANY WORK WITHIN PENNDOT RIGHT-OF-WAY REQUIRES A PENNDOT HIGHWAY OCCUPANCY PERMIT (HOP). THE CONTROLLED BY THE ASSOCIATION. WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, THE CONTROLLED FACILITIES SHALL INCLUDE ALL OF THE FOLLOWING AREAS AND IMPROVEMENTS OR FACILITIES LOCATED THEREIN, AS IDENTIFIED ON THE SUBDIVISION
- 1. COMMON SIDEWALKS AND CURBS WITHIN OR ABUTTING THE RIGHTS OF WAY OF STREETS, INCLUDING THE CONCRETE DRIVEWAY APRONS BETWEEN SUCH SIDEWALKS AND CURBS.
- 2. LAWN AREAS, SOLELY FOR THE PURPOSES AS MORE FULLY DESCRIBED IN ARTICLE V.
- THE ASSOCIATION SHALL BE RESPONSIBLE FOR THE MAINTENANCE, IMPROVEMENT, REPAIR, REPLACEMENT, REGULATION, MANAGEMENT, INSURANCE AND CONTROL OF SUCH CONTROLLED FACILITIES, THE COST OF WHICH SHALL BE ASSESSED AS A COMMON EXPENSE ALLOCATED IN THE SAME MANNER AS OTHER COMMON EXPENSES FOR COMMON ELEMENTS. MAINTENANCE, REPAIR AND REPLACEMENT RESPONSIBILITIES
- MAINTENANCE RESPONSIBILITIES/COMMON ELEMENTS AND CONTROLLED FACILITIES.

THE ASSOCIATION SHALL MAINTAIN, REPAIR AND REPLACE ALL OF THE COMMON ELEMENTS AND CONTROLLED FACILITIES. IN ACCORDANCE WITH THE REQUIREMENTS OF THE SUBDIVISION PLAN, THE SWM PLAN, THE BMP PLAN, THE OPERATION AND MAINTENANCE ("O&M") AGREEMENT APPLICABLE TO THE PLANNED COMMUNITY (THE "O&M AGREEMENT"), ANY APPLICABLE LEBANON COUNTY OR NORTH LEBANON TOWNSHIP STORMWATER MANAGEMENT ORDINANCES AND ANY OTHER WRITTEN AGREEMENTS RELATED THERETO BETWEEN DECLARANT AND LEBANON COUNTY AND/OR NORTH LEBANON TOWNSHIP RECORDED OR TO BE RECORDED IN THE LAND RECORDS OF LEBANON COUNTY. WITHOUT LIMITING THE FOREGOING

- 1. ALL PERMANENT STORM WATER CONVEYANCE AND MANAGEMENT FACILITIES (INCLUDING BASINS, SWALES, INLETS, HEADWALLS, ENDWALLS ROOF DRAIN COLLECTORS FTC.) NOT LOCATED WITHIN THE STREET RIGHTS-OF-WAY SHALL BE MAINTAINED BY THE ASSOCIATION. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, REPAIR AND MAINTENANCE IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE SCHEDULE CONTAINED IN THE SUBDIVISION PLAN OR IN ANY WRITTEN AGREEMENT WITH NORTH LEBANON TOWNSHIP, NORMAL MAINTENANCE AS WELL AS REPAIR OF STRUCTURAL DAMAGE OR DETERIORATION OF ANY KIND, INCLUDING THAT CAUSED BY SINKHOLES WITHIN THE COMMON ELEMENTS OR OTHER EVENTS. THE FORGOING NOTWITHSTANDING, THE ASSOCIATION SHALL HAVE NO DUTY TO REPAIR SINKHOLES WHICH MAY FORM WITHIN THE BOUNDARIES OF ANY UNIT OR UNITS. NORTH LEBANON TOWNSHIP SHALL HAVE THE RIGHT, BUT NOT THE DUTY, OF ACCESS AT ANY TIME TO INSPECT AND MAINTAIN THE FACILITY AT THE ASSOCIATION'S EXPENSE, IF THE ASSOCIATION SHOULD FAIL TO PROPERLY MAINTAIN THE FACILITY.
- UNITS. EACH UNIT OWNER SHALL MAINTAIN, REPAIR AND REPLACE, AT HIS OR HER OWN EXPENSE, ALL PORTIONS OF HIS OR HER
- ACCESS. ANY PERSON AUTHORIZED BY THE EXECUTIVE BOARD SHALL HAVE THE RIGHT OF ACCESS TO THE PROPERTY UPON SUCH NOTICE AS SHALL BE REASONABLE UNDER THE CIRCUMSTANCES FOR THE PURPOSE OF CORRECTING ANY CONDITION THREATENING THE PROPERTY, THE COMMON ELEMENTS OR THE CONTROLLED FACILITIES AND FOR ANY OTHER PROPER PURPOSE, PROVIDED THAT ALL REQUESTS FOR ENTRY ARE MADE IN ADVANCE AND THAT ANY SUCH ENTRY IS AT A TIME REASONABLY CONVENIENT TO THE AFFECTED UNIT OWNER. NORTH LEBANON TOWNSHIP SHALL ALSO HAVE THE RIGHT TO ACCESS THE STORM WATER MANAGEMENT FACILITIES AND THE CURBS AND SIDEWALKS.
- LIMITED MAINTENANCE SIDEWALKS. THE ASSOCIATION SHALL PROVIDE SNOW REMOVAL SERVICES WITH REGARD TO COMMON SIDEWALKS (BUT NOT WALKWAYS TO UNITS OR UNIT DRIVEWAYS) WITHIN THE PLANNED COMMUNITY AND THE COST THEREOF SHALL BE ASSESSED AS A COMMON EXPENSE. UNIT OWNER SHALL BE RESPONSIBLE FOR SNOW REMOVAL FROM PARKING AREAS WHICH SERVE ONLY THEIR UNITS.
- LIMITED MAINTENANCE LAWNS. THE ASSOCIATION SHALL PROVIDE REGULAR LAWN MOWING, AND ANNUAL WEEDING AND MULCHING OF ALL AREAS WITHIN THE PLANNED COMMUNITY, INCLUDING UPON UNITS. UNIT OWNERS SHALL BE RESPONSIBLE FOR THE TRIMMING OF ANY TREES LOCATED ON WITHIN THEIR UNIT BOUNDARIES.
- III. EASEMENTS
- ADDITIONAL EASEMENTS. EACH UNIT OWNER SHALL HAVE AN UNRESTRICTED RIGHT OF INGRESS AND EGRESS TO AND FROM HIS OR HER UNIT OVER, UPON AND THROUGH THE COMMON ELEMENTS AND CONTROLLED FACILITIES WITHIN THE PLANNED COMMUNITY. IN ADDITION TO SUCH AND IN SUPPLEMENTATION OF THE EASEMENTS PROVIDED FOR BY, AND HEREBY CREATED PURSUANT TO. SECTIONS 5216, 5217, 5218 AND 5302(A)(9) OF THE ACT, THE FOLLOWING ADDITIONAL EASEMENTS ARE HEREBY CREATED.
- 1. DECLARANT'S USE FOR SALES PURPOSES. DECLARANT SHALL HAVE THE RIGHT TO MAINTAIN ONE OR MORE SALES OFFICES. MANAGEMENT OFFICES AND MODELS THROUGHOUT THE PROPERTY AND TO MAINTAIN ONE OR MORE DIRECTIONAL. PROMOTIONAL AND ADVERTISING SIGNS ON THE COMMON ELEMENTS AND ON UNITS OWNED BY DECLARANT PURSUANT TO ECTION 5217 OF THE ACT. DECLARANT RESERVES THE RIGHT TO PLACE MODELS, MANAGEMENT OFFICES AND SALES OFFICI ON ANY PORTION OF THE COMMON ELEMENTS OR IN A UNIT OWNED BY DECLARANT IN SUCH A MANNER, OR SUCH SIZE AND NUMBER AND IN SUCH LOCATIONS AS DECLARANT DEEMS APPROPRIATE DECLARANT MAY FROM TIME TO TIME RELOCATE MODELS, MANAGEMENT OFFICES AND SALES OFFICES TO DIFFERENT LOCATIONS WITHIN THE PROPERTY NOTWITHSTANDING THAT THE PLANNED COMMUNITY DOCUMENTS MAY OTHERWISE PRECLUDE SUCH USE IN THOSE LOCATIONS. UPON THE RELOCATION OF A MODEL, MANAGEMENT OFFICE OR SALES OFFICE CONSTITUTING A COMMON ELEMENT, DECLARANT MAY REMOVE ALL PERSONAL PROPERTY AND FIXTURES THEREFROM. ANY FIXTURES NOT SO REMOVED SHALL BE DEEMED COMMON ELEMENTS, AND ANY REAL OR PERSONAL PROPERTY NOT SO REMOVED SHALL BE DEEMED THE PROPERTY OF THE ASSOCIATION.
- UTILITY EASEMENTS, THE UNITS AND COMMON ELEMENTS SHALL BE, AND ARE HEREBY, MADE SUBJECT TO EASEMENTS IN FAVOR OF THE DECLARANT, APPROPRIATE UTILITY AND SERVICE COMPANIES AND GOVERNMENTAL AGENCIES OR AUTHORITIES FOR SUCH UTILITY AND SERVICE LINES, DUCTS AND EQUIPMENT AS MAY BE NECESSARY OR DESIRABLE TO SERVE ANY PORTION OF THE PROPERTY. THE EASEMENTS CREATED IN THIS SECTION SHALL INCLUDE, WITHOUT LIMITATION, RIGHTS OF DECLARANT. OR THE PROVIDING UTILITY OR SERVICE COMPANY, OR GOVERNMENTAL AGENCY OR AUTHORITY TO INSTALL, LAY, MAINTAIN, REPAIR. RELOCATE AND REPLACE GAS LINES. PIPES AND CONDUITS. WATER MAINS AND PIPES. SEWER AND DRAIN LINES. TELEPHONE WIRES AND EQUIPMENT, TELEVISION EQUIPMENT AND FACILITIES (CABLE OR OTHERWISE), ELECTRIC WIRES, CONDUITS AND EQUIPMENT AND DUCTS AND VENTS OVER, UNDER, THROUGH, ALONG AND ON THE UNITS AND COMMON ELEMENTS. NOTWITHSTANDING THE FOREGOING PROVISIONS OF THIS SECTION, UNLESS APPROVED IN WRITING BY THE UNIT OWNER OR UNIT OWNERS AFFECTED THEREBY ANY SUCH FASEMENT THROUGH A UNIT SHALL BE LOCATED FITHER IN SUBSTANTIALLY THE SAME LOCATION AS SUCH FACILITIES OR SIMILAR FACILITIES EXISTED AT THE TIME OF FIRST CONVEYANCE OF THE UNIT BY THE DECLARANT, OR SO AS NOT TO MATERIALLY INTERFERE WITH THE USE OR OCCUPANCY OF THE UNIT BY ITS OCCUPANTS
- 3. DECLARANT'S EASEMENT TO CORRECT DRAINAGE. DECLARANT RESERVES AN EASEMENT ON, OVER AND UNDER THE PROPERTY AND COMMON ELEMENTS FOR THE PURPOSE OF MAINTAINING AND CORRECTING DRAINAGE OF SURFACE WATER IN ORDER TO MAINTAIN REASONABLE STANDARDS OF HEALTH, SAFETY AND APPEARANCE. THE EASEMENT CREATED BY THIS SECTION EXPRESSLY INCLUDES THE RIGHT TO CUT ANY TREES, BUSHES, OR SHRUBBERY, TO GRADE THE SOIL, OR TO TAKE ANY OTHER ACTION REASONABLY NECESSARY TO ACHIEVE THIS PURPOSE, FOLLOWING WHICH THE DECLARANT SHALL RESTORE THE AFFECTED PROPERTY AS CLOSELY TO ITS ORIGINAL CONDITION AS PRACTICABLE.
- DECLARANT'S RESERVATION OF RIGHT TO GRANT EASEMENTS. DECLARANT RESERVES THE RIGHT TO GRANT, SELL AND CONVEY EASEMENTS FOR THE PURPOSE OF BENEFITTING ANY TRACT OF LAND ADJACENT TO THE PROPERTY. WITHOUT LIMITING THE GENERALITY OF THE PRECEDING SENTENCE, THE DECLARANT MAY SUBJECT THE PROPERTY TO: (I) STORM WATER AND DETENTION POND EASEMENTS TO BE USED JOINTLY WITH ADJOINING PROPERTY OWNERS: AND (II) UTILITY EASEMENTS.
- 5. EASEMENT FOR ENCROACHMENTS. TO THE EXTENT THAT ANY UNIT OR PORTION OF THE COMMON ELEMENTS ENCROACHES UPON ANY OTHER UNIT OR PORTION OF THE COMMON ELEMENTS BECAUSE OF THE CONSTRUCTION, RECONSTRUCTION, REPAIR, SHIFTING SETTLEMENT OF OTHER MOVEMENT OF ANY PORTION OF THE IMPROVEMENTS A VALID EASEMENT FOR THE ENCROACHMENT AND ITS MAINTENANCE SHALL EXIST, PROVIDED THAT THE PHYSICAL BOUNDARIES OF THE UNITS AFTER CONSTRUCTION, RECONSTRUCTION OR REPAIR WILL BE IN SUBSTANTIAL ACCORD TO THE DESCRIPTIONS THEREOF SET FORTH IN THE SUBDIVISION PLAN. THE EASEMENT SHALL EXTEND FOR WHATEVER PERIOD OF TIME THE ENCROACHMENT CONTINUES TO EXIST. THIS EASEMENT DOES NOT RELIEVE A UNIT OWNER OF LIABILITY IN THE CASE OF WILLFUL MISCONDUCT NOR THE DECLARANT OR ITS AGENTS OF LIABILITY FOR FAILURE TO COMPLY WITH THIS DECLARATION OR THE SUBDIVISION PLAN.
- 6. EASEMENT FOR ACCESS TO REAR YARDS OF UNITS. DECLARANT HEREBY DECLARES UPON THE PROPERTY AND LOTS A COMMON CROSS EASEMENT FOR ACCESS TO THE REAR YARDS OF UNITS IN FAVOR OF ALL UNITS AND UNIT OWNERS, AS MORE FULLY SHOWN ON THE SUBDIVISION PLAN. APARTMENT GARAGES
- AN APARTMENT OWNER LEASING AN INDIVIDUAL APARTMENT SHALL INCLUDE THE FOLLOWING PROVISIONS IN ANY LEASES FOR SUCH UNIT:
- 1. TENANT IS PROHIBITED FROM SUBLEASING OR OTHERWISE RENTING ANY GARAGE ASSIGNED TO TENANT TO ANY THIRD PARTY;
- 2. TENANT MAY NOT UTILIZE ANY GARAGE ASSIGNED TO TENANT PRIMARILY FOR STORAGE. GARAGES MUST PRIMARILY BE USED TO PARK VEHICLES AND ANY STORAGE OF A TENANT'S BELONGINGS MUST BE SECONDARY TO THE PRIMARY USE OF STORING VEHICLES

WATER NOTES - CITY OF LEBANON AUTHORITY: 1. CONTACT INFORMATION FOR THE CITY OF LEBANON AUTHORITY:

City of Lebanon Authority

- 2311 Ridgeview Road
- Lebanon, PA 17042
- Bob Sentz bsentz@lebanonauthority.org
- 717-272-2841
- AUTHORITY'S "GENERAL SPECIFICATIONS FOR WATER SYSTEM CONSTRUCTION". 3. THE CONSTRUCTION OF WATER MAINS REQUIRES A WATER MAIN EXTENSION AGREEMENT BETWEEN THE DEVELOPER
- AND THE AUTHORITY
- **TIE-IN LOCATIONS**
- PRIOR TO MAKING THE WATER TAPS. 6. FIRE SERVICE CONNECTION REQUIRES AN APPLICATION AND PAYMENT FOR A CAPACITY FEE WITH THE AUTHORITY PRIOR TO MAKING THE FIRE LINE TAP.
- PERMIT TYPICALLY IS REQUIRED TO BE IN THE AUTHORITY'S NAME, AND THE AUTHORITY REQUIRES THE CONTRACTOR TO PROVIDE A REFUNDABLE DEPOSIT TO THE AUTHORITY UNTIL PENNDOT SIGNS OFF ON THE PERMIT AVTER CONSTRUCTION IS COMPLETE.
- AQUIRED IN THE CONTRACTOR'S NAME.
- 9. THE AUTHORITY SHALL APPROVE ALL MATERIALS PRIOR TO CONSTRUCTION. 10.A MANDATORY PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN THE AUTHORITY, BUREAU OF WATER, AND WATERLINE CONSTRUCTION CONTRACTOR.
- 11. THE BUREAU OF WATER WILL INSPECT THE WATER MAIN INSTALLATION AND TESTING. THERE ARE FEES CHARGED TO THE DEVELOPER/ CONTRACTOR FOR INSPECTION SERVICES. WATER MAIN CONSTRUCTION AND FEES SHALL BE COORDINATED WITH THE AUTHORITY
- 12. THE PROPERTY OWNER/ DEVELOPER SHALL INSTALL THE WATER TAP AND SERVICE LINE TO THE CURB STOP UNDER THE INSPECTION OF THE BUREAU OF WATER. THE PROPERTY OWNER IS RESPONSIBLE FOR THE WATER SERVICE AFTER THE CURB STOP. THE BUREAU OF WATER WILL INSTALL THE WATER METER WITHIN THE BUIDLING OR AN APPROVED METER PIT AS INSTRUCTED BY THE BUREAU OF WATER. CONTACT THE BUREAU OF WATER METER DEPARTMENT FOR METER INSTALLATION, 2200 WEST CHESTNUT STREET, 717-273-2506. 13. WATER SERVICE LATERALS OVER 100-FEET FROM THE CURB STOP TO THE ENTRANCE OF THE BUILDING REQUIRES
- THE INSTALLATION OF A METER PIT WITHIN 10-FEET OF THE CURB STOP. METER PITS SHALL BE APPROVED BY THE METER DEPARTMENT PRIOR TO INSTALLATION. 14. SEWER AND WATER MAINS SHALL HAVE A MINIMUM OF AN 18-INCH SEPERATION, OR THE SEWER MAIN SHALL BE
- CONCRETE ENCASED IN THE AREA WHERE THE 18 INCH SEPERATION CANNOT BE MAINTAINED. 15. WATER MAINS AND LATERALS THAT ARE LESS THAT 18-INCHES FROM A STORM SEWER OR CULVERT SHALL BE INSULATED WITH A FOAM WRAP
- 16.AT THE CONCLUSION OF THE INSTALLATION OF THE WATER SYSTEM AND SERVICE LINES, AND SUCCESSFUL TESTING EVENTS THEREOF, THE WATER SYSTEM WILL BE OFFERED FOR DEDICATION TO THE CITY OF LEBANON AUTHORITY. 8. ACCESS TO ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING INLETS, MANHOLES, STORM PIPES, ENDWALLS, 17. ALL EXISTING WATER LATERALS SHALL BE TERMINATED AT THE WATER MAIN BY TURNING OFF THE CORPORATION HEADWALLS, SWALES, AND BASINS SHALL BE PROVIDED VIA EASEMENTS TO REPRESENTATIVES OF NORTH LEBANON STOP AT THE MAIN, AND THE SERVICE LINES CUT AND CRIMPED WITHIN ONE FOOT OF THE CORPORATION STOP. ALL TOWNSHIP WORK, INCLUDING SAW CUTTING, EXCAVATION, LATERAL TERMINATION, BACKFILL, AND PAVING, SHALL BE DONE BY 9. STORMWATER MANAGEMENT FACILITIES (DETENTION FACILITIES, STORM DRAINAGE PIPES, INLETS AND ENDWALLS) SHALL BE THE CONTRACTOR AND INSPECTED BY THE BUREAU OF WATER. CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF NORTH LEBANON TOWNSHIP, LEBANON COUNTY CONSERVATION DISTRICT, LEBANON COUNTY, AND PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION. 10. ALL STORM SEWER JOINTS SHALL BE WATERTIGHT.

REQUIRED INSPECTIONS DURING SITE CONSTRUCTION

INSPECTIONS ARE REQUIRED FOR THE FOLLOWING ACTIVITIES:

SUBSURFACE IMPROVEMENTS ARE INSPECTED PRIOR TO BACKFILLING.

LEBANON COUNTY ENGINEER SHALL INSPECT THE IMPROVEMENTS DURING CONSTRUCTION. THE DEVELOPER OR SITE WORK CONTRACTOR SHALI PROVIDE AT LEAST 2 WORKING DAYS NOTICE PRIOR TO THE START OF ANY IMPROVEMENTS WHICH REQUIRE INSPECTION BY CALLING THE LEBANON COUNTY PLANNING DEPARTMENT AT 717-228-4444.

ALL INSPECTIONS OF COMPLETED ITEMS SHALL BE REQUESTED IN WRITING AT LEAST 48 HOURS IN ADVANCE OF THE FINAL INSPECTION DATE & TIME.

- . UPON COMPLETION OF PRELIMINARY SITE PREPARATION INCLUDING STRIPING OF VEGETATION, STOCKPILING OF TOPSOIL AND TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES.
- 2. UPON COMPLETION OF ROUGH GRADING, BUT PRIOR TO PLACING TOPSOIL, PERMANENT DRAINAGE OR OTHER SITE IMPROVEMENTS AND GROUND COVERS 3. DURING THE CONSTRUCTION OF PERMANENT STORM WATER MANAGEMENT AND BMP FACILITIES. ALL STORM SEWERS, CULVERTS, ETC. PRIOR TO BACKFILL.
- 4. FOR RETENTION BASIN SEE BELOW . UPON FINAL COMPLETION OF PERMANENT STORM WATER MANAGEMENT AND BMP FACILITIES AND THE ESTABLISHMENT OF GROUND COVERS AND PLANTINGS
- 6. AFTER REVIEW OF THE AS-BUILT DRAWINGS BUT PRIOR TO THE RELEASE OF THE FINAL FINANCIAL GUARANTEE FOR COMPLETION OF FINAL GRADING, VEGETATIVE CONTROLS REQUIRED BY THE BMP STANDARDS OR OTHER SITE RESTORATION. FINANCIAL SECURITY FOR THE IMPROVEMENTS WILL NOT BE CONSIDERED FOR RELEASE UNLESS THE TOWNSHIP ENGINEER IS PROPERLY NOTIFIED AND THE

4. EXISTING WATER MAINS ARE SHOWN AT AN APPROXIMATE LOCATION. THE CONTRACTOR SHALL EXCAVATE TEST PITS TO DETERMINE ACTUAL LOCATIONS AND VERIFY WATER MAIN SIZES AT UTILITY CROSSING, EXCAVATED AREAS, AND

- 5. WATER LATERAL CONNECTION REQUIRES AN APPLICATION AND PAYMENT FO A CAPACITY FEE WITH THE AUTHORITY
- 8. ANY WORK WITHIN MUNICIPAL RIGHT-OF-WAY'S MIGHT REQUIRE A MUNICIPAL PERMIT. THE PERMIT SHALL BE

- ORMWATER MANAGEMENT NOTES
- ALL STORMWATER FACILITIES LOCATED IN PUBLIC STREET RIGHTS-OF-WAY SHALL BE DEDICATED TO THE MUNICIPALITY WITH JURISDICTION OVER THE RIGHT-OF-WAY. SPECIFICALLY, NORTH LEBANON TOWNSHIP WILL OWN AND MAINTAIN STORM WATER FACILITIES WITHIN THEIR RESPECTIVE STREET RIGHTS-OF-WAY. MAINTENANCE OF ALL STORMWATER MANAGEMENT FACILITIES AND EASEMENTS NOT LOCATED WITHIN PUBLIC RIGHTS-OF-WAY, INCLUDING THE STORMWATER MANAGEMENT FACILITIES, SHALL BE THE RESPONSIBILITY OF THE CURRENT PROPERTY OWNER. OWNERSHIP AND MAINTENANCE RESPONSIBILITIES WILL TRANSFER TO SUBSEQUENT OWNERS WITH THE TRANSFER OF PROPERTY OWNERSHIP. DETENTION BASIN, SWALES AND OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE MAINTAINED IN ACCORDANCE
- WITH THE DESIGN AND KEPT FREE OF FILL AND OBSTRUCTIONS. 4. ALL YARD INLETS SHALL BE SUMPED AT LEAST SIX (6) INCHES BELOW SURROUNDING GRADE TO CAPTURE TRIBUTARY
- RUNOFF AND PREVENT BYPASS FLOWS. 5. NO ALTERATION TO ANY STORMWATER MANAGEMENT FACILITIES SHALL BE PERMITTED WITHIN EASEMENTS 6. NOTHING SHALL BE PLACED, PLANTED, SET OR PUT WITHIN ANY EASEMENT WHICH COULD ADVERSELY AFFECT THE FUNCTION OF THE FASEMENT WEST LEBANON TOWNSHIP SHALL HAVE THE RIGHT TO:
- 6.1. ACCESS THE SITE TO INSPECT STORM WATER FACILITIES AT ANY TIME. 6.2. REQUIRE THE CURRENT LAND OWNER TAKE CORRECTIVE MEASURES AND ASSIGN THE LAND OWNER A REASONABLE PERIOD TO TAKE CORRECTIVE ACTION. 6.3. AUTHORIZE MAINTENANCE TO BE DONE AND LIEN ALL COSTS OF WORK AGAINST THE PROPERTIES OF THE PRIVATE ENTITY RESPONSIBLE FOR MAINTENANCE
- THE MAINTENANCE OF ALL STORMWATER CONVEYANCE AND MANAGEMENT FACILITIES SHALL BE BY THE PROPERTY OWNER. MAINTENANCE SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: 7.1. ROLITINE MOWING SHALL BE CONDUCTED AT LEAST EVERY OTHER WEEK DURING THE GROWING SEASON
- 7.2. REMOVAL OF SILT AND DEBRIS FROM ALL STORM WATER MANAGEMENT STRUCTURES. 7.3. PERIODIC REPLACEMENT OF SILT FENCE OR OTHER SIMILAR MEASURES.
- 7.4. ESTABLISHMENT OR RE-ESTABLISHMENT OF VEGETATION BY SEEDING AND MULCHING OR SODDING OF SCOURED AREAS OR AREAS WHERE VEGETATION HAS NOT BEEN SUCCESSFULLY ESTABLISHED. 7.5. INSTALLATION OF NECESSARY CONTROLS TO CORRECT UNFORESEEN PROBLEMS CAUSED BY STORM EVENTS. 7.6. REMOVAL OF ALL TEMPORARY STORMWATER MANAGEMENT CONTROL FACILITIES UPON THE INSTALLATION OF
- PERMANENT STORMWATER FACILITIES AT THE COMPLETION OF THE DEVELOPMENT 7.7. REPAIR OF STRUCTURAL DAMAGE OR DETERIORATION OF ANY KIND, INCLUDING THAT CAUSED BY SINKHOLES OR OTHER
- 11.ALL STORM SEWERS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH PENNDOT PUB. 408 SPECIFICATIONS, PENNDOT PUB 72 AND AS SHOWN ON THESE DRAWINGS 12. SHOP DRAWINGS SHALL BE PROVIDED TO THE TOWNSHIP ENGINEER FOR REVIEW FOR ALL STORM SEWER STRUCTURES PRIOR TO INSTALLATION.
- 13. RUNOFF FROM THE PROPOSED IMPROVEMENTS SHALL BE DIRECTED TO THE STORM WATER MANAGEMENT FACILITIES. 14. TOWNSHIP AND COUNTY OFFICIALS. AND THEIR AGENTS OR EMPLOYEES. HAVE THE RIGHT OF ACCESS FOR INSPECTION AND IN CASES OF CONSTRUCTION DEFAULT, CONSTRUCTION OF THE STORM WATER MANAGEMENT FACILITIES. THE DEVELOPER/OWNER GRANTS THE TOWNSHIP THE RIGHT TO ACCESS TO ALL STORMWATER MANAGEMENT EASEMENTS ON
- THE SUBJECT TRACT VIA THE ACCESS DRIVES, DRIVEWAYS, PARKING AREAS, AND SIMILAR FEATURES WITHIN THE SITE. 15. ACCESSORY BUILDINGS. STRUCTURES. FENCES. WALLS. HEDGES. AND POOLS SHALL NOT BE LOCATED WITHIN OR OBSTRUCT ANY STORMWATER MANAGEMENT FACILITY AND ASSOCIATED CONVEYANCE SYSTEMS. 16. ALL DRAINAGE PIPES SHALL BE LAID TO A MINIMUM DEPTH OF EIGHTEEN (18) INCHES FROM FINISHED SUBGRADE TO THE CROWN OF THE PIPE IN PAVED OR STONE AREAS AND TWELVE (12) INCHES FROM FINISHED GRADE TO THE CROWN OF PIPE
- IN GRASSED AREAS. 17.NO PERSON SHALL MODIFY, REMOVE, FILL, LANDSCAPE, OR ALTER STORMWATER MANAGEMENT FACILITIES WHICH MAY WERE INSTALLED ON THE PROPERTY UNLESS A STORMWATER MANAGEMENT SITE PLAN HAS BEEN APPROVED BY NORTH LEBANON TOWNSHIP WHICH ALLOWS SUCH MODIFICATION, REMOVAL, FILL, LANDSCAPING OR ALTERATION. NO PERSON SHALL PLACE ANY STRUCTURE, FILL, LANDSCAPING OR VEGETATION INTO A STORMWATER MANAGEMENT FACILITY OR WITHIN A DRAINAGE EASEMENT WHICH COULD LIMIT OR ALTER THE FUNCTIONING OF THE FACILITY OR EASEMENT IN ANY
- MANNER 18. AS PER SECTION 310 OF THE NORTH LEBANON TOWNSHIP STORMWATER MANAGEMENT ORDINANCE, THE TOWN'S EDGE DEVELOPMENT SUBDIVISION DEPICTED HEREIN IS LOCATED WITHIN THE "LEBANON TOWNSHIP RESIDUAL" STORMWATER MANAGEMENT DISTRICT
- 19. THE TOWNSHIP, TOWNSHIP ENGINEER AND DESIGN ENGINEER SHALL BE CONTACTED REGARDING INSPECTION OF THE STORMWATER MANAGEMENT FACILITIES, INSPECTIONS SHALL BE REQUIRED DURING CONSTRUCTION AND AT COMPLETION OF THE FACILITIES. NO OCCUPANCY PERMIT SHALL BE ISSUED UNTIL THE STORMWATER MANAGEMENT FACILITIES HAVE BEEN INSTALLED AND APPROVED THROUGH INSPECTION BY THE TOWNSHIP.

EASEMENT NOTES

- A STORMWATER MANAGEMENT CONVEYANCE EASEMENT SHALL BE LOCATED AROUND EACH CONVEYANCE FACILITY (I.E. SWALES, PIPES, ETC.) AND SHALL BE TWENTY (20) FEET IN WIDTH. THE EASEMENT SHALL EXTEND TEN (10) FEET FROM THE CENTERLINE OF THE CONVEYANCE FACILITY.
- 2. A STORMWATER MANAGEMENT EASEMENTS SHALL BE LOCATED AROUND EACH STORMWATER MANAGEMENT FACILITY (I.E. DETENTION BASINS, INFILTRATION TRENCHES, RAIN GARDENS, ETC.) AND SHALL ENCOMPASS ALL COMPONENTS OF THE
- 3. AN EASEMENT SHALL ENCOMPASS ALL WETLANDS AND OPEN STREAM CHANNELS. THE EASEMENT SHALL BE LOCATED TWENTY-FIVE (25) FEET FROM THE CENTERLINE OF THE STREAM CHANNEL AND AT THE BOUNDARY OF ALL WETLANDS.
- 4. THE GRANTOR, FOR ITSELF, ITS SUCCESSORS, AND ASSIGNS, AUTHORIZES THE TOWNSHIP AND COUNTY AND ITS AUTHORIZED REPRESENTATIVES TO ENTER UPON THE PREMISES TO INSPECT THE FACILITIES LOCATED WITHIN THE
- EASEMENT 5. ALL FACILITIES LOCATED WITHIN THE ABOVE MENTIONS EASEMENTS SHALL BE SUBJECT TO THE PROVISIONS OF THE STORMWATER MAINTENANCE AND OWNERSHIP PROGRAM

INFILTRATION BASIN

INFILTRATION BASINS ARE SHALLOW, IMPOUNDED AREAS DESIGNED TO TEMPORARILY STORE AND INFILTRATE STORMWATER RUNOFF. THE SIZE AND SHAPE CAN VARY FROM ONE LARGE BASIN TO MULTIPLE, SMALLER BASINS THROUGHOUT A SITE. IDEALLY, THE BASIN SHOULD AVOID DISTURBANCE OF EXISTING VEGETATION, IF DISTURBANCE IS UNAVOIDABLE, REPLANTING AND LANDSCAPING MAY BE NECESSARY AND SHOULD INTEGRATE THE EXISTING LANDSCAPE AS SUBTLY AS POSSIBLE AND COMPACTION OF THE SOIL MUST BE PREVENTED INFILTRATION BASINS USE THE EXISTING SOIL MANTLE TO REDUCE THE VOLUME OF STORMWATER RUNOFF BY INFILTRATION AND EVAPOTRANSPIRATION. THE QUALITY OF THE RUNOFF IS ALSO IMPROVED BY THE NATURAL CLEANSING PROCESSES OF THE EXISTING SOIL MANTLE AND ALSO BY THE VEGETATION PLANTED IN 17. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. THE BASINS.

CONSTRUCTION SEQUENCE

- 1. PROTECT INFILTRATION BASIN AREA FROM COMPACTION PRIOR TO INSTALLATION
- 2. IF POSSIBLE, INSTALL INFILTRATION BASIN DURING LATER PHASES OF SITE CONSTRUCTION TO PREVENT SEDIMENTATION AND/OR DAMAGE FROM CONSTRUCTION ACTIVITY. AFTER INSTALLATION, PREVENT SEDIMENT LADEN WATER FROM ENTERING INLETS AND PIPES
- 3. INSTALL AND MAINTAIN PROPER EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
- 4. IF NECESSARY, EXCAVATE INFILTRATION BASIN BOTTOM TO AN UNCOMPACTED SUBGRADE FREE FROM ROCKS AND DEBRIS. DO NOT COMPACT SUBGRADE
- PLANTINGS.)
- 6. DO NOT REMOVE INLET PROTECTION OR OTHER EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS FULLY STABILIZED.

MAINTENANCE ISSUES

PROPERLY DESIGNED AND INSTALLED RETENTION AREAS REQUIRE SOME REGULAR MAINTENANCE:

MAINTENANCE ACTIVITIES TO BE DONE ANNUALLY AND WITHIN 48 HOURS AFTER EVERY MAJOR STORM EVENT (> 1 INCH RAINFALL DEPTH): 1. INSPECT AND CORRECT EROSION PROBLEMS, DAMAGE TO VEGETATION, AND SEDIMENT AND DEBRIS ACCUMULATION

- (ADDRESS WHEN > 3 INCHES AT ANY SPOT OR COVERING VEGETATION) 2. INSPECT VEGETATION ON SIDE SLOPES FOR EROSION AND FORMATION OF RILLS OR GULLIES, CORRECT AS NEEDED
- 3. MOW AND TRIM VEGETATION TO ENSURE SAFETY, AESTHETICS, PROPER RETENTION BASIN OPERATION, OR TO SUPPRESS WEEDS AND INVASIVE VEGETATION; DISPOSE OF CUTTINGS IN A LOCAL COMPOSTING FACILITY; MOW ONLY WHEN RETENTION BASSIN IS DRY TO AVOID RUTTING
- 4. INSPECT FOR LITTER; REMOVE PRIOR TO MOWING 5. INSPECT RETENTION BASIN INLET (CURB CUTS, PIPES, ETC.) AND OUTLET FOR SIGNS OF EROSION OR BLOCKAGE, CORRECT AS NEEDED
- MAINTENANCE ACTIVITIES TO BE DONE AS NEEDED:
- 1. RE-PLANT SPECIFIED GRASS SPECIES IN THE EVENT OF UNSUCCESSFUL ESTABLISHMENT. INSTALL NAG S75 MATTING IN AREAS WHERE INITIAL GRASS ESTABLISHMENT WAS NOT SUCCESSFUL. 2. RESEED BARE AREAS; INSTALL APPROPRIATE EROSION CONTROL MEASURES WHEN NATIVE SOIL IS EXPOSED OR EROSION
- CHANNELS ARE FORMING.

3. ROTOTILL AND REPLANT RETENTION BASIN/BIORETENTION IF DRAW DOWN TIME IS MORE THAN 72 HOURS. 4. WATER DURING DRY PERIODS, FERTILIZE, AND APPLY PESTICIDE ONLY WHEN ABSOLUTELY NECESSARY.

722 KIMERLINGS ROAD LEBANON, PA 17046 **CONTACT - CHERI GRUMBINE** 717-273-7132 BUCKEYE PARTNERS FIVE TEK PARK 9999 HAMILTON BLVD BREINIGSVILLE, PA 18031 CONTACT - DAVE JONES daiones@buckeye.com

DESIGN IS TO BE COMPLETED.

610-904-4000

SECTION 3.

APPROVAL AT ITS DISCRETION

OBJECTIONABLE MATERIAL

THIS E&S PLAN.

SHALL BE 2H:1V OR FLATTER.

REQUIRED

CODES



DATE: 3/10/2022

NORTH LEBANON TOWNSHIP NORTH LEBANON TOWNSHIP MUNICIPAL AUTHORITY 725 KIMERLINGS ROAD LEBANON, PA 17046 717-273-7132

317-575-7800

COMCAST CABLE LEBANON C/O CLS LOCATING SERVICES INC 9045 RIVER ROAD, STE 300 INDIANAPOLIS, IN 46240 **CONTACT - CLS PERSONNEL**

2311 RIDGEVIEW RD LEBANON, PA 17042 717-272-2841 UGI UTILITIES INC

CITY OF LEBANON AUTHORITY

1301 AIP DR MIDDI FTOWN PA 17057-5987 CONTACT - JOANNE ARCHFIELD jarchfield@ugi.com 717-255-1453

VERIZON PENNSYLVANIA LLC 15 E MONTGOMERY AVE PITTSBURGH, PA 15212 CONTACT - OFFICE PERSONNEL 877-502-2876

FIRSTENERGY CORP 76 S MAIN ST AKRON, OH 44308-1890 CONTACT - OFFICE PERSONNEL 800-633-4766

CHRISLAND ENGINEERING, INC., HEREBY STATES THAT, PURSUANT TO THE PROVISIONS OF ACT NO. 287 OF 1974 AS AMENDED BY ACT 121 OF 2008 OF THE PENNSYLVANIA GENERAL ASSEMBLY. IT HAS PERFORMED THE FOLLOWING IN PREPARING THESE DRAWINGS REQUIRING EXCAVATION OR DEMOLITION WORK AT SITES WITHIN THE POLITICAL SUBDIVISION(S) SHOWN ON THE DRAWINGS.

(1) PURSUANT TO SECTION 4, CLAUSE (2) OF SAID ACT, CHRISLAND ENGINEERING, INC. REQUESTED THE LINE AND FACILITY INFORMATION PRESCRIBED BY SECTION 2, CLAUSE (4) FROM A ONE CALL SYSTEM NOT LESS THAN TEN NOR MORE THAN NINETY WORKING DAYS BEFORE FINAL

(2) PURSUANT TO SECTION 4, CLAUSE (3) OF SAID ACT, CHRISLAND ENGINEERING, INC. SHOWN UPON THE DRAWING(S) THE POSITION AND TYPE OF EACH FACILITY OWNERS LINE. DERIVED PURSUANT TO THE REQUEST MADE AS REQUIRED BY SECTION 4, CLAUSE (2), AND THE NAME OF THE FACILITY OWNER, AND THE FACILITY OWNERS DESIGNATED OFFICE ADDRESS AND THE TELEPHONE NUMBER AS SHOWN ON THE LIST REFERRED TO IN

(3) PURSUANT TO SECTION 4, CLAUSE (4) OF SAID ACT, CHRISLAND ENGINEERING, INC. MADE A REASONABLE EFFORT TO PREPARE THE CONSTRUCTION DRAWING(S) TO AVOID DAMAGE TO AND MINIMIZE INTERFERENCE WITH A FACILITY OWNERS FACILITIES IN THE CONSTRUCTION AREA BY MAINTAINING AN EIGHTEEN-INCH CLEARANCE OF THE FACILITY OWNERS FACILITIES WHERE POSSIBLE.

(4) PURSUANT TO SECTION 4, CLAUSE (5) OF SAID ACT, CHRISLAND ENGINEERING, INC., SHALL BE DEEMED TO HAVE MET THE OBLIGATIONS OF CLAUSE (2) BY CALLING A ONE CALL SYSTEM AND SHOWING AS PROOF THE SERIAL NUMBER OF THE ONE CALL NOTICE ON THE DRAWING(S). AND CHRISLAND ENGINEERING, INC. DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR GUARANTEE THAT THE INFORMATION

RECEIVED PURSUANT TO SAID REQUEST AND AS REFLECTED ON THESE DRAWINGS IS CORRECT OR ACCURATE, BUT CHRISLAND ENGINEERING, INC. IS REFLECTING SAID INFORMATION ON THESE DRAWINGS ONLY DUE TO THE REQUIREMENTS OF THE SAID ACT 187, DECEMBER 19, 1996.

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

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

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 STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN

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. 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

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 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 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

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.

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 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 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

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 FILLS. 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. 5. INSTALL OUTLET CONTROL STRUCTURES. 6. SEED AND STABILIZE TOPSOIL. (VEGETATE IF APPROPRIATE WITH NATIVE 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

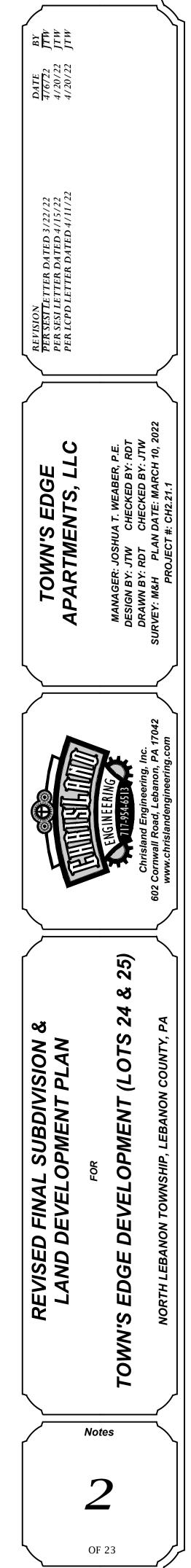
COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS. 28.E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.

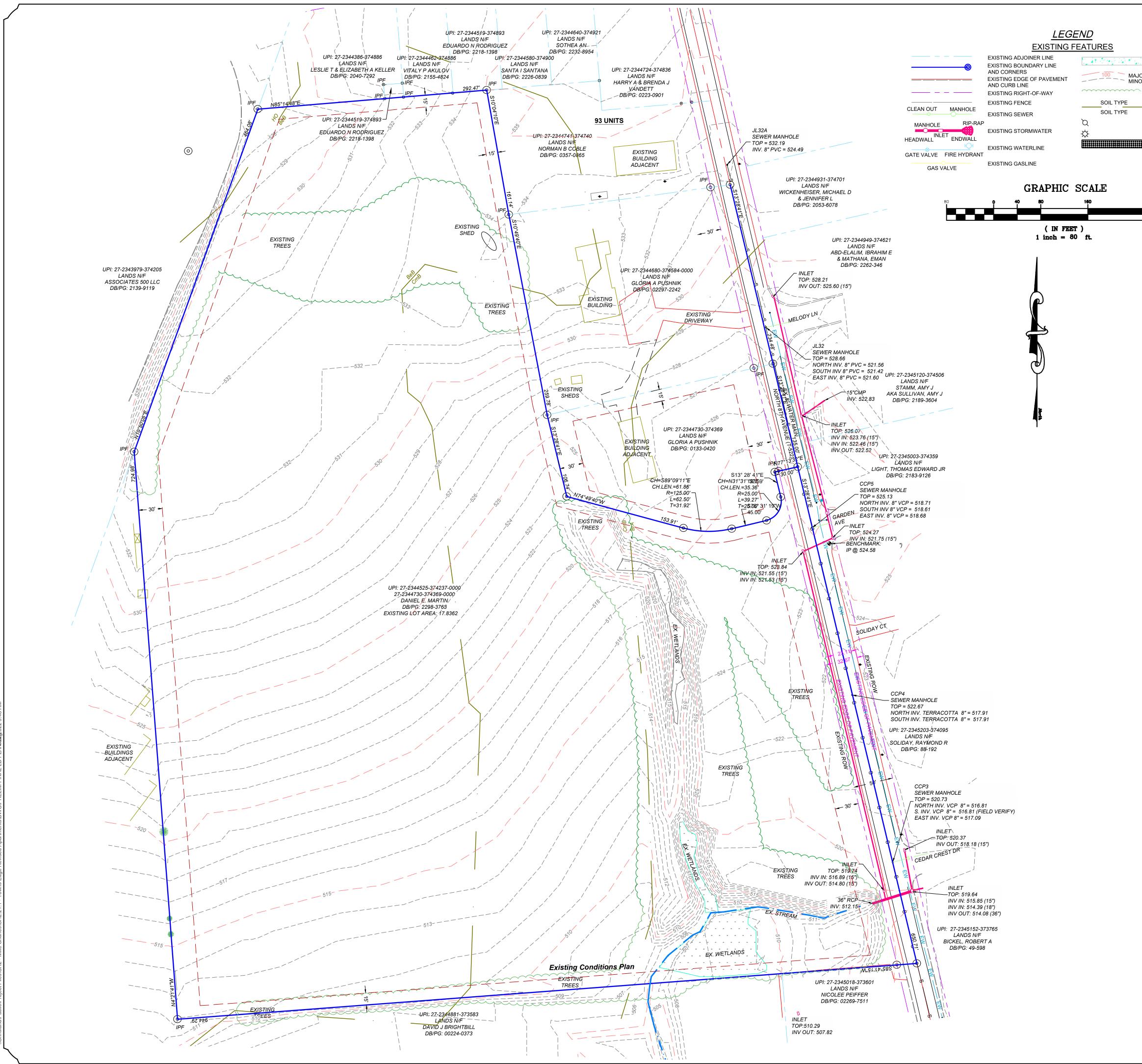
29.UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS. 30. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED. TEMPORARY 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 THE GERMINATING SEASON.

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 FINAL INSPECTION. 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.UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE. 34.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. 35.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 MAXIMUM 9" LAYERED LIFTS AT 95% DENSITY.





MAJOR MINOR

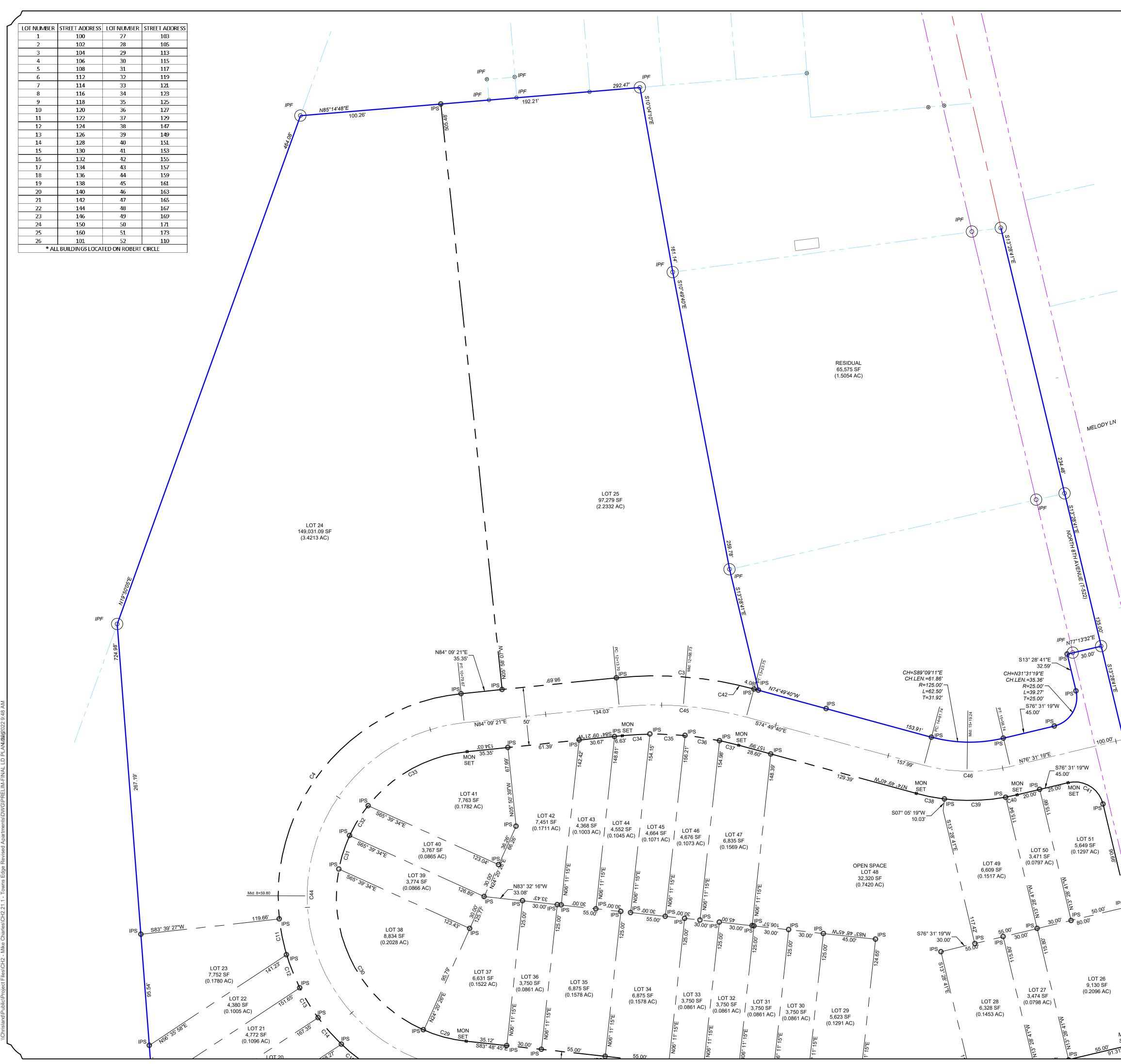
EXISTING SIDEWALK/CONCRETE

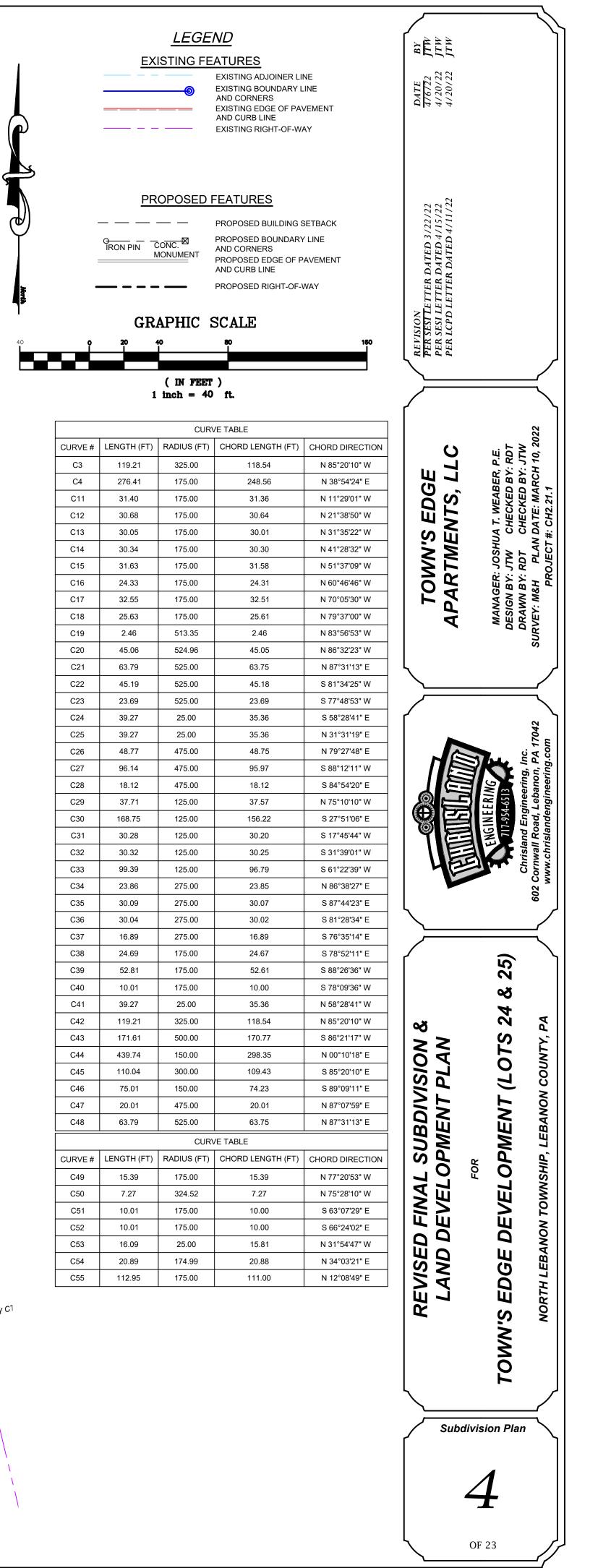
EXISTING CONTOURS EXISTING TREELINE

EXISTING SOILS EXISTING UTLITY POLE EXISTING LIGHT POLE EXISTING WETLANDS

BY JTW JTW JTW DATE 4/6/22 4/20/22 4/20/22 REVISION PER SESI LETTER DATED 3/22/22 PER SESI LETTER DATED 4/15/22 PER LCPD LETTER DATED 4/11/22 S TOWN'S EDGE PARTMENTS, LL 2 N \mathbf{N} જ S FINAL SUBDIVISION EVELOPMENT PLAN 0 5 Û IEN 0 LI ШТ REVISED I LAND DI Q Ш Ū ED RTH S **Existing Conditions** $\mathbf{\mathcal{T}}$

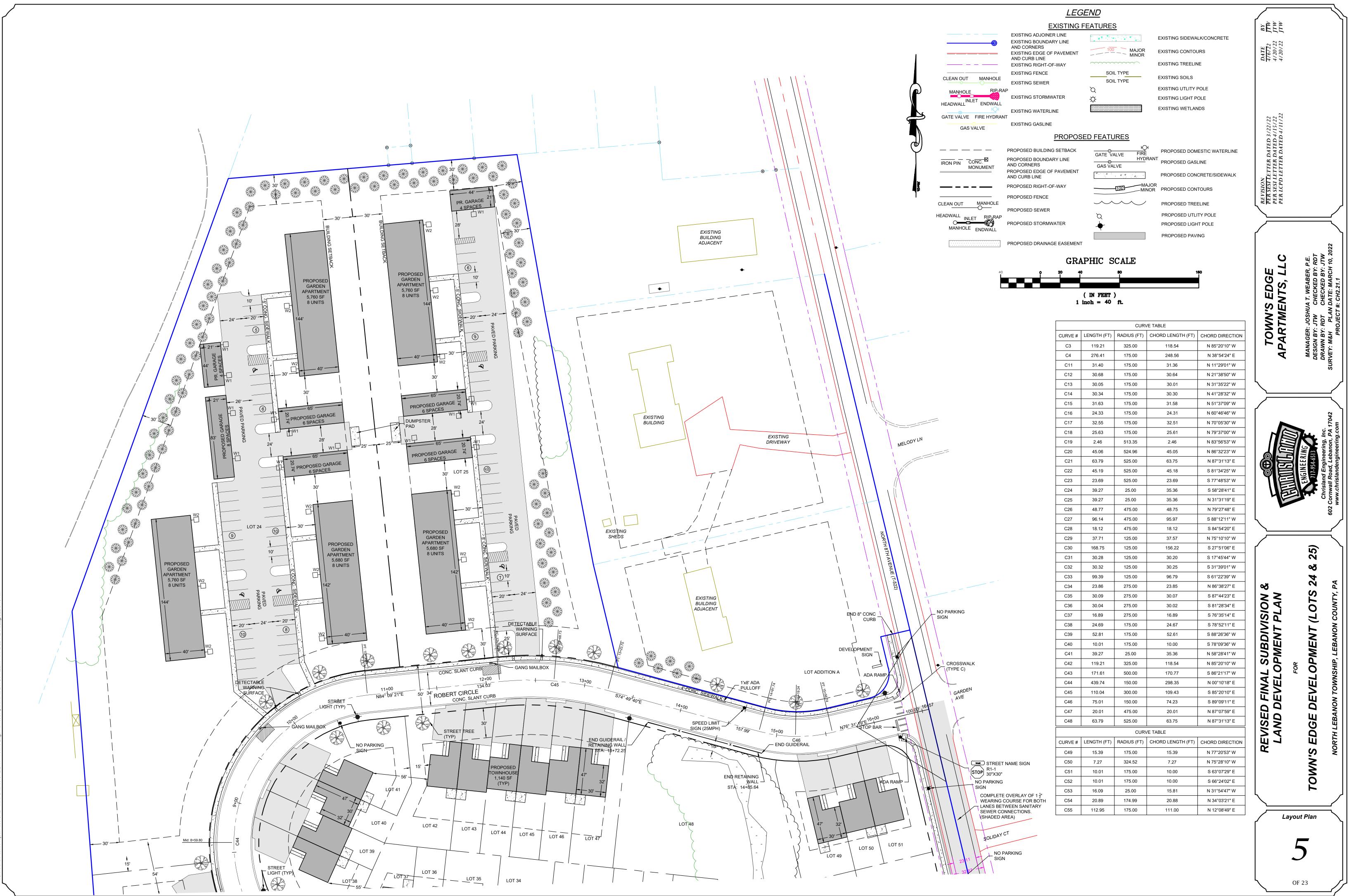
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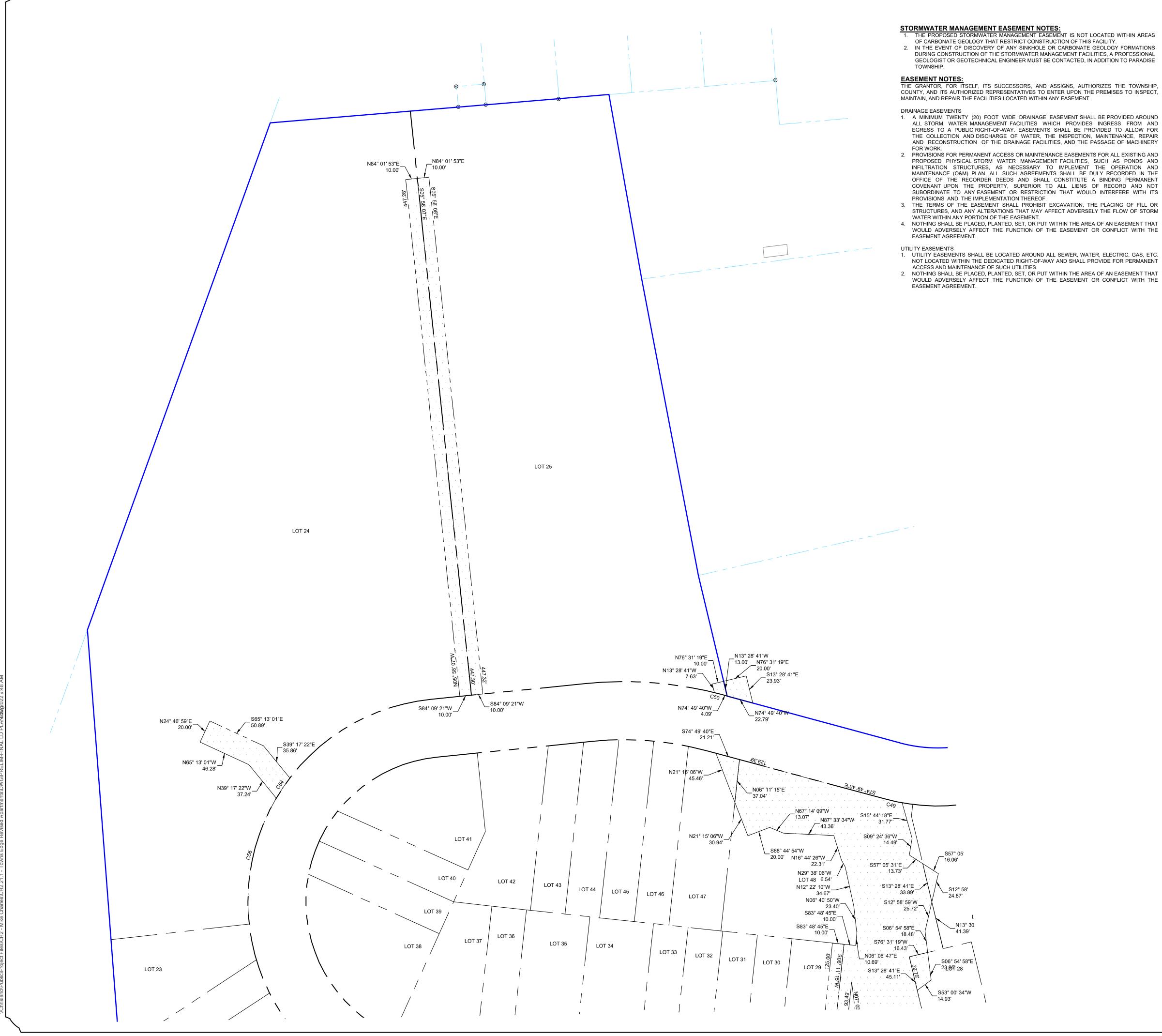




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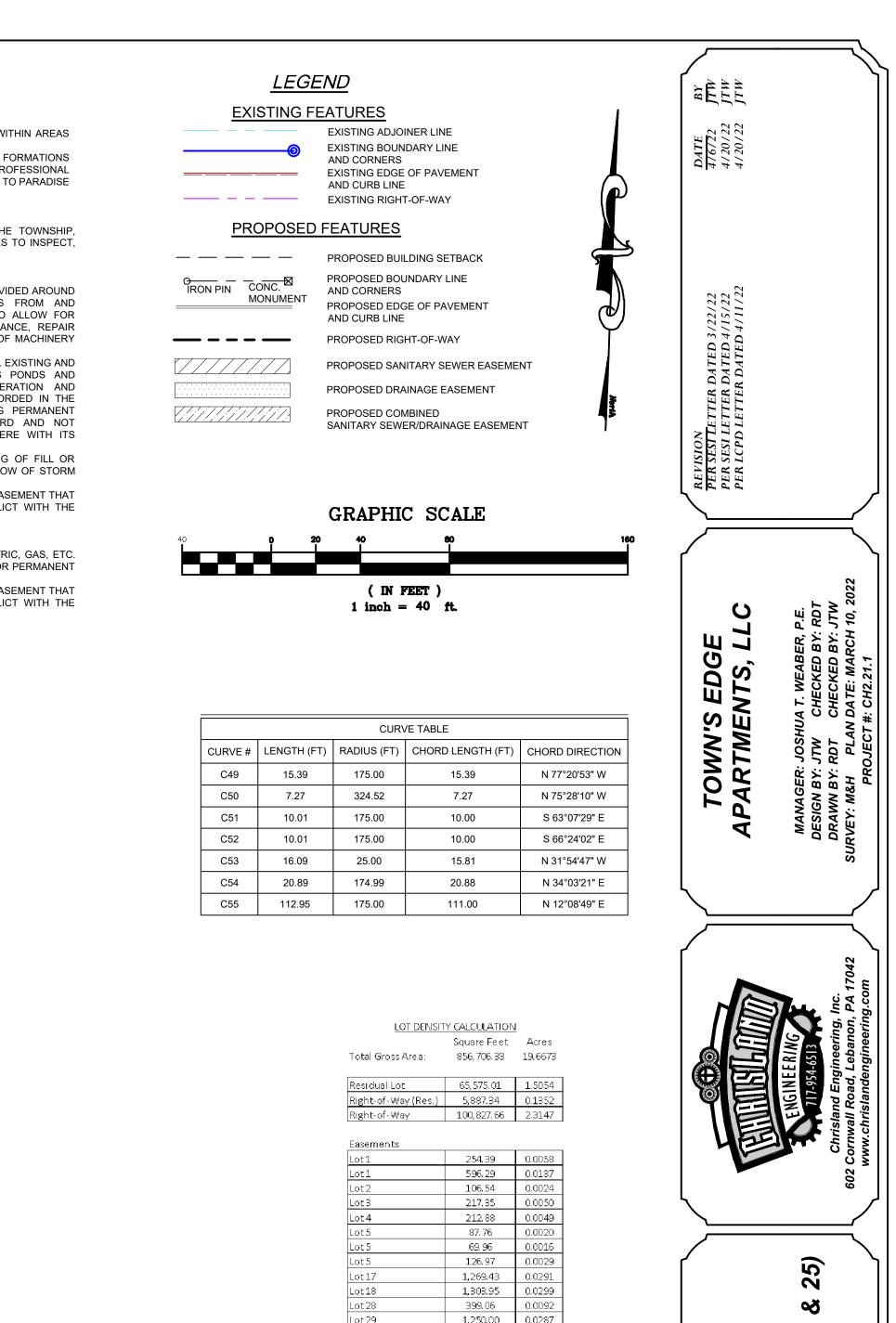


STORMWATER MANAGEMENT EASEMENT NOTES: THE PROPOSED STORMWATER MANAGEMENT EASEMENT IS NOT LOCATED WITHIN AREAS

OF CARBONATE GEOLOGY THAT RESTRICT CONSTRUCTION OF THIS FACILITY. 2. IN THE EVENT OF DISCOVERY OF ANY SINKHOLE OR CARBONATE GEOLOGY FORMATIONS DURING CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITIES, A PROFESSIONAL GEOLOGIST OR GEOTECHNICAL ENGINEER MUST BE CONTACTED, IN ADDITION TO PARADISE

COUNTY, AND ITS AUTHORIZED REPRESENTATIVES TO ENTER UPON THE PREMISES TO INSPECT, MAINTAIN, AND REPAIR THE FACILITIES LOCATED WITHIN ANY EASEMENT.

- 1. A MINIMUM TWENTY (20) FOOT WIDE DRAINAGE EASEMENT SHALL BE PROVIDED AROUND ALL STORM WATER MANAGEMENT FACILITIES WHICH PROVIDES INGRESS FROM AND
- EGRESS TO A PUBLIC RIGHT-OF-WAY. EASEMENTS SHALL BE PROVIDED TO ALLOW FOR THE COLLECTION AND DISCHARGE OF WATER, THE INSPECTION, MAINTENANCE, REPAIR AND RECONSTRUCTION OF THE DRAINAGE FACILITIES, AND THE PASSAGE OF MACHINERY
- 2. PROVISIONS FOR PERMANENT ACCESS OR MAINTENANCE EASEMENTS FOR ALL EXISTING AND PROPOSED PHYSICAL STORM WATER MANAGEMENT FACILITIES, SUCH AS PONDS AND INFILTRATION STRUCTURES, AS NECESSARY TO IMPLEMENT THE OPERATION AND MAINTENANCE (0&M) PLAN. ALL SUCH AGREEMENTS SHALL BE DULY RECORDED IN THE OFFICE OF THE RECORDER DEEDS AND SHALL CONSTITUTE A BINDING PERMANENT COVENANT UPON THE PROPERTY, SUPERIOR TO ALL LIENS OF RECORD AND NOT SUBORDINATE TO ANY EASEMENT OR RESTRICTION THAT WOULD INTERFERE WITH ITS
- PROVISIONS AND THE IMPLEMENTATION THEREOF. 3. THE TERMS OF THE EASEMENT SHALL PROHIBIT EXCAVATION, THE PLACING OF FILL OR STRUCTURES, AND ANY ALTERATIONS THAT MAY AFFECT ADVERSELY THE FLOW OF STORM
- WATER WITHIN ANY PORTION OF THE EASEMENT. 4. 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
- 1. UTILITY EASEMENTS SHALL BE LOCATED AROUND ALL SEWER, WATER, ELECTRIC, GAS, ETC.
- NOT LOCATED WITHIN THE DEDICATED RIGHT-OF-WAY AND SHALL PROVIDE FOR PERMANENT ACCESS AND MAINTENANCE OF SUCH UTILITIES. 2. 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



Lot5	87.76	0.0020
Lot 5	69,96	0.0016
Lot5	126.97	0.0029
Lot17	1,269.43	0.0291
Lot18	1,303.95	0.0299
Lot 28	399.06	0.0092
Lot 29	1,250.00	0.0287
Lot 49	187.76	0.0043
Lot24	4,472.89	0.1027
Lot 24	1,698.36	0.0390
Lot 25	4,473.58	0.1027
Lot 25	102.90	0.0024
Lot 47	387.94	0.0089
Lot 48	19, 623. 96	0.4505
Lot 48 - Unusable	1,438.82	0.0330
Lot 48 - Unusable	933, 30	0.0214
Lot 52	121, 787. 46	2.7959
Lot 52 - Unusable	2,320.09	0.0533
Lot 52 - Unusable	16, 231, 17	0.3726

Total Net Lot Area: 504, 863.51 11.5901

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DEVELOPMENT

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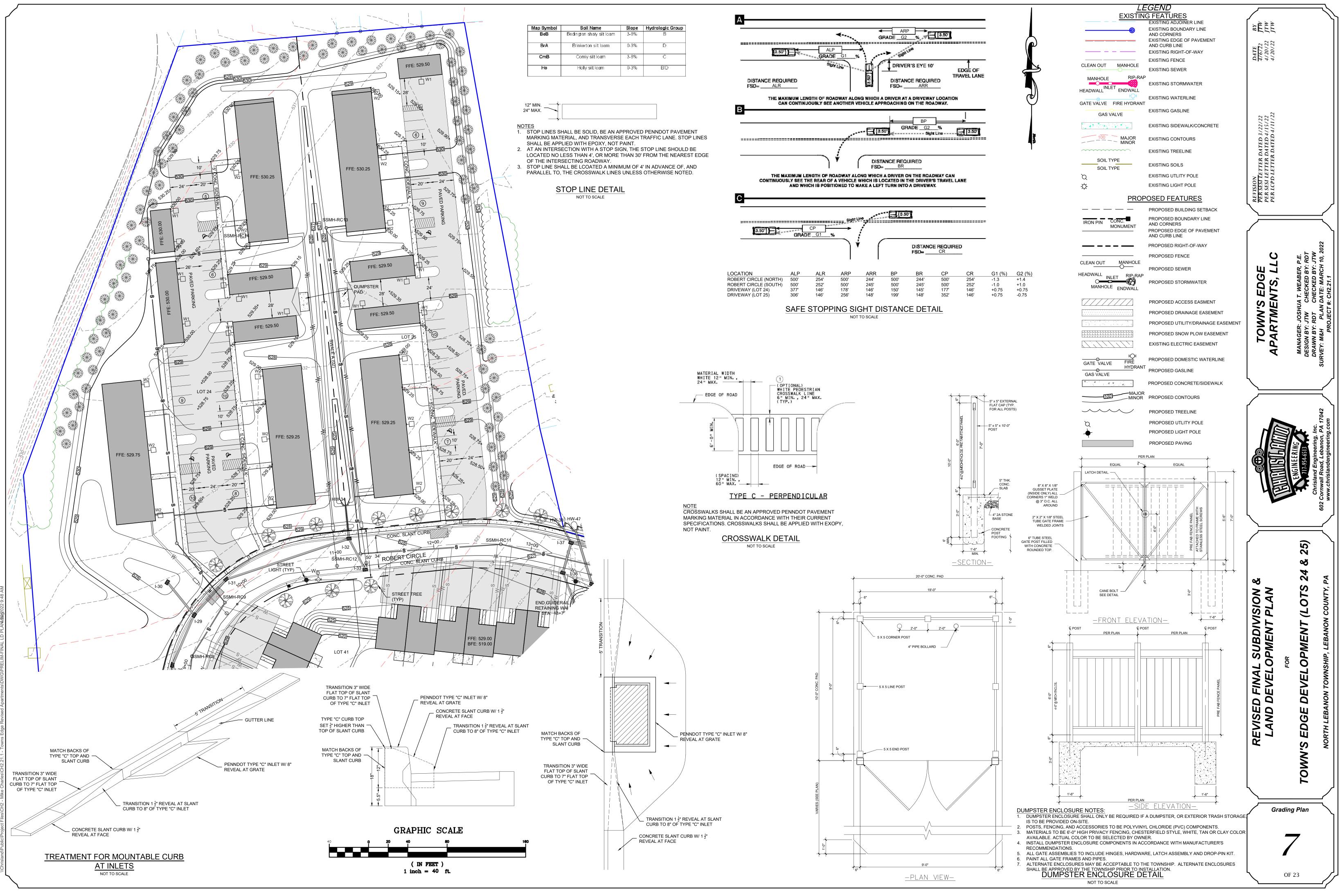
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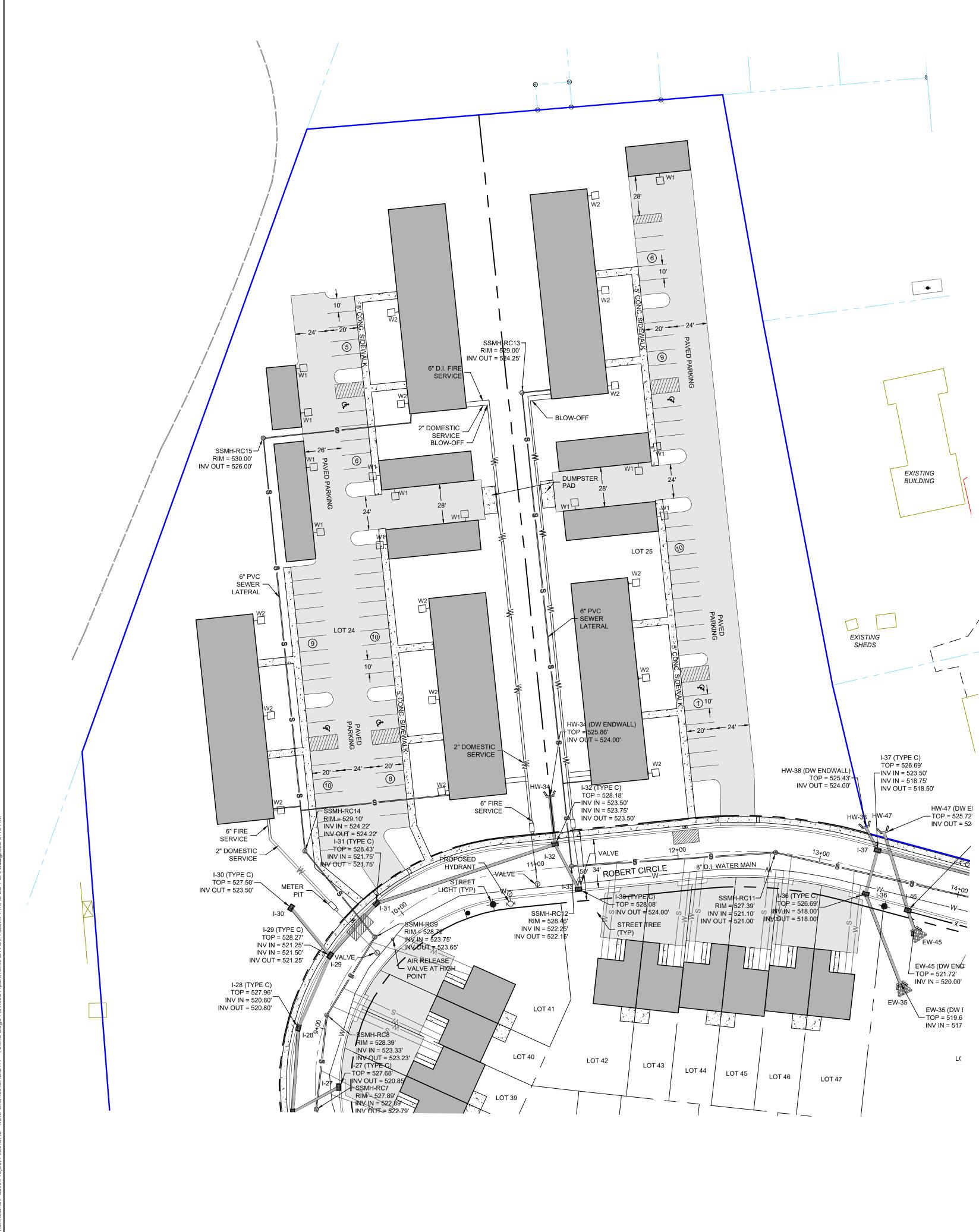
Easement Plan

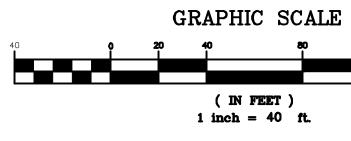
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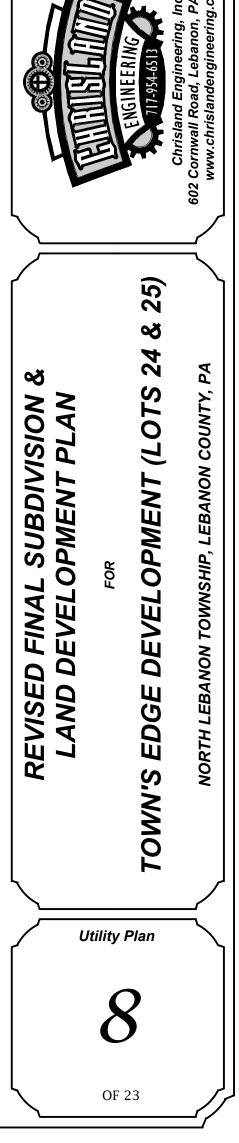
REVISED FINAL SUBDIVISION LAND DEVELOPMENT PLAN

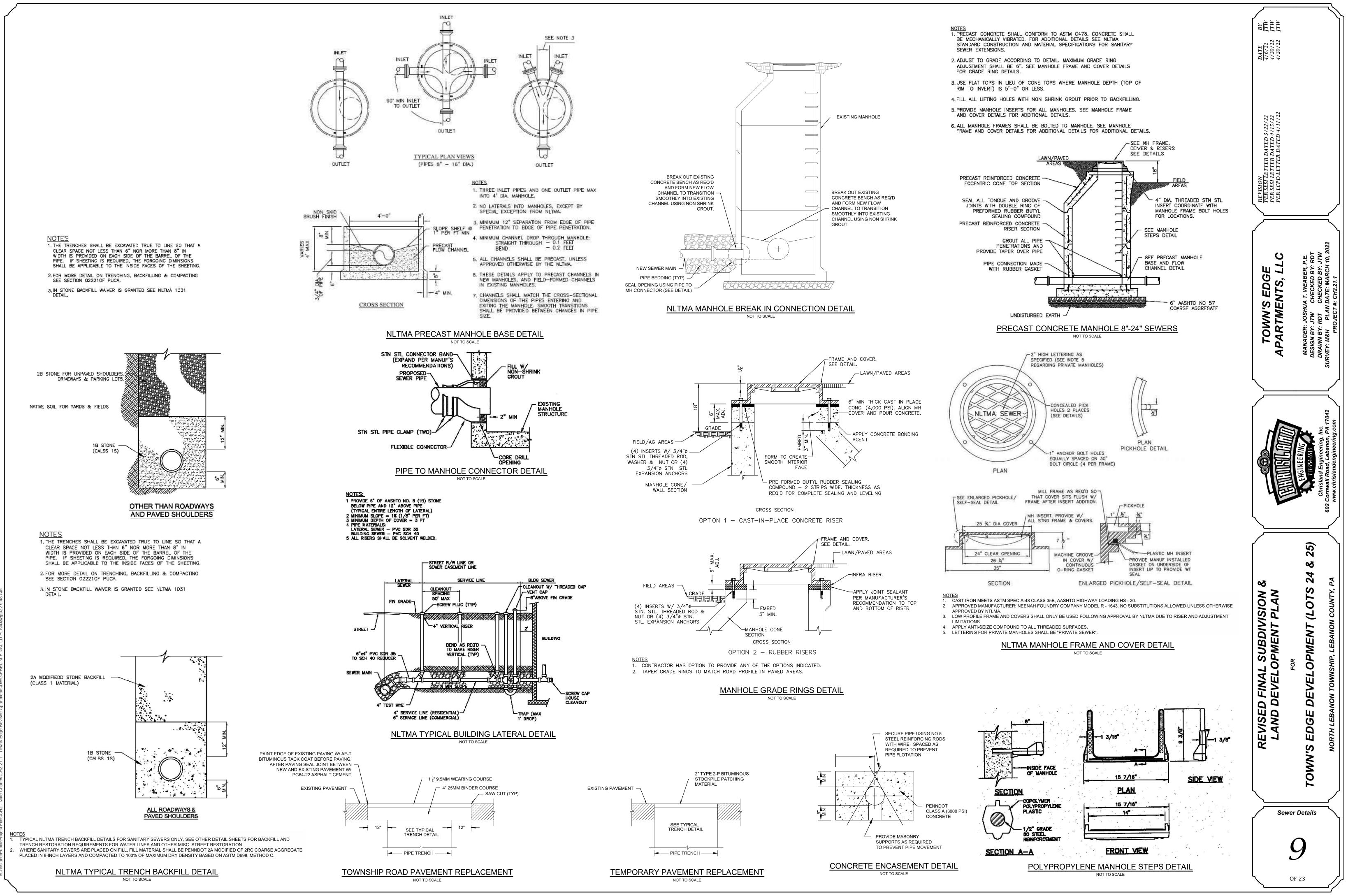


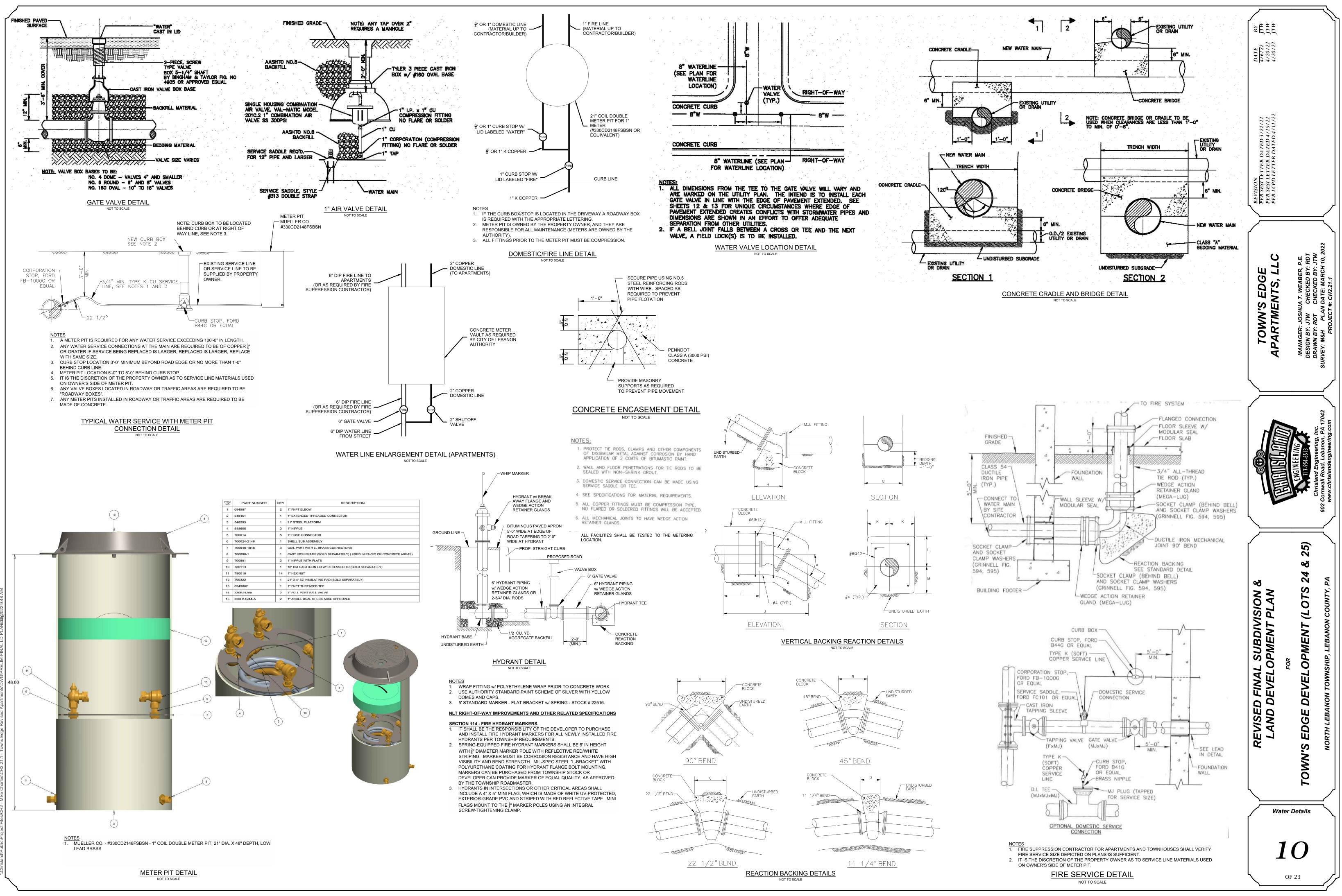


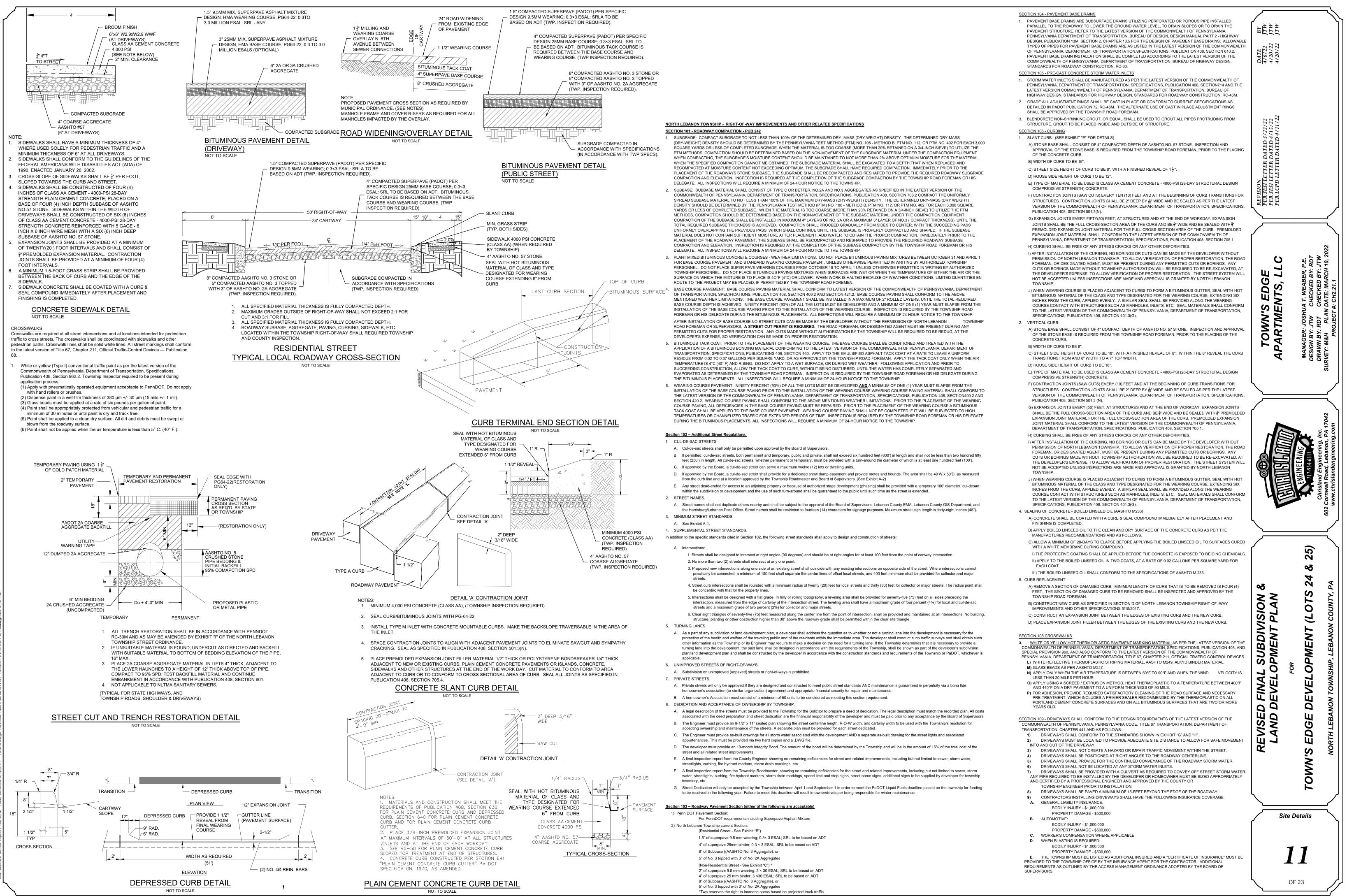


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	EXISTING BOUNDARY LINE AND CORNERS	DATE 4/6/2 4/20/ 4/20/	
<u> </u>	EXISTING EDGE OF PAVEMENT	0444	
	AND CURB LINE EXISTING RIGHT-OF-WAY		
	EXISTING FENCE		
CLEAN OUT MANHOLE	EXISTING SEWER		
MANHOLE RIP-RAP	EXISTING STORMWATER		
HEADWALL		22	
GATE VALVE FIRE HYDRANT	EXISTING WATERLINE	2/2.2/2.	
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	PROPOSED BUILDING SETBACK	٢	
IRON PIN CONC.	PROPOSED BOUNDARY LINE		52
MONUMENT	AND CORNERS PROPOSED EDGE OF PAVEMENT AND CURB LINE	ပ	A T. WEABER, P.E. CHECKED BY: RDT CHECKED BY: JTW DATE: MARCH 10, 2022
	PROPOSED RIGHT-OF-WAY		ER, H BY: I BY: CH
	PROPOSED FENCE	0	A T. WEABER, CHECKED BY: CHECKED BY: DATE: MARCH
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MANHOLE ENDWALL	PROPOSED STORMWATER	TOWN'S EDG	AN
	PROPOSED ACCESS EASMENT	N N N	R: JOS Y: JTW Y: RDT PL,
	PROPOSED DRAINAGE EASEMENT	0₽	MANAGER: DESIGN BY: DRAWN BY: SURVEY: M&H
	PROPOSED UTILITY/DRAINAGE EASEMENT		MANAG DESIGN DRAWN RVEY: Mi
	PROPOSED SNOW PLOW EASEMENT	▼	
	EXISTING ELECTRIC EASEMENT		SU
GATE VALVE FIRE	PROPOSED DOMESTIC WATERLINE	5	
GAS VALVE	PROPOSED GASLINE		(
	PROPOSED CONCRETE/SIDEWALK	ſ	Ņ
MAJOR MINOR	PROPOSED CONTOURS		17042
~~~~	PROPOSED TREELINE		ENGINEERING 111-934-6513 sland Engineering, Inc. rall Road, Lebanon, PA
à	PROPOSED UTLITY POLE		erin ano
ф.	PROPOSED LIGHT POLE		ERI 4-65 yine Leb
	PROPOSED PAVING		NGINEERING 111-954-6513 nd Engineeri Road, Leban
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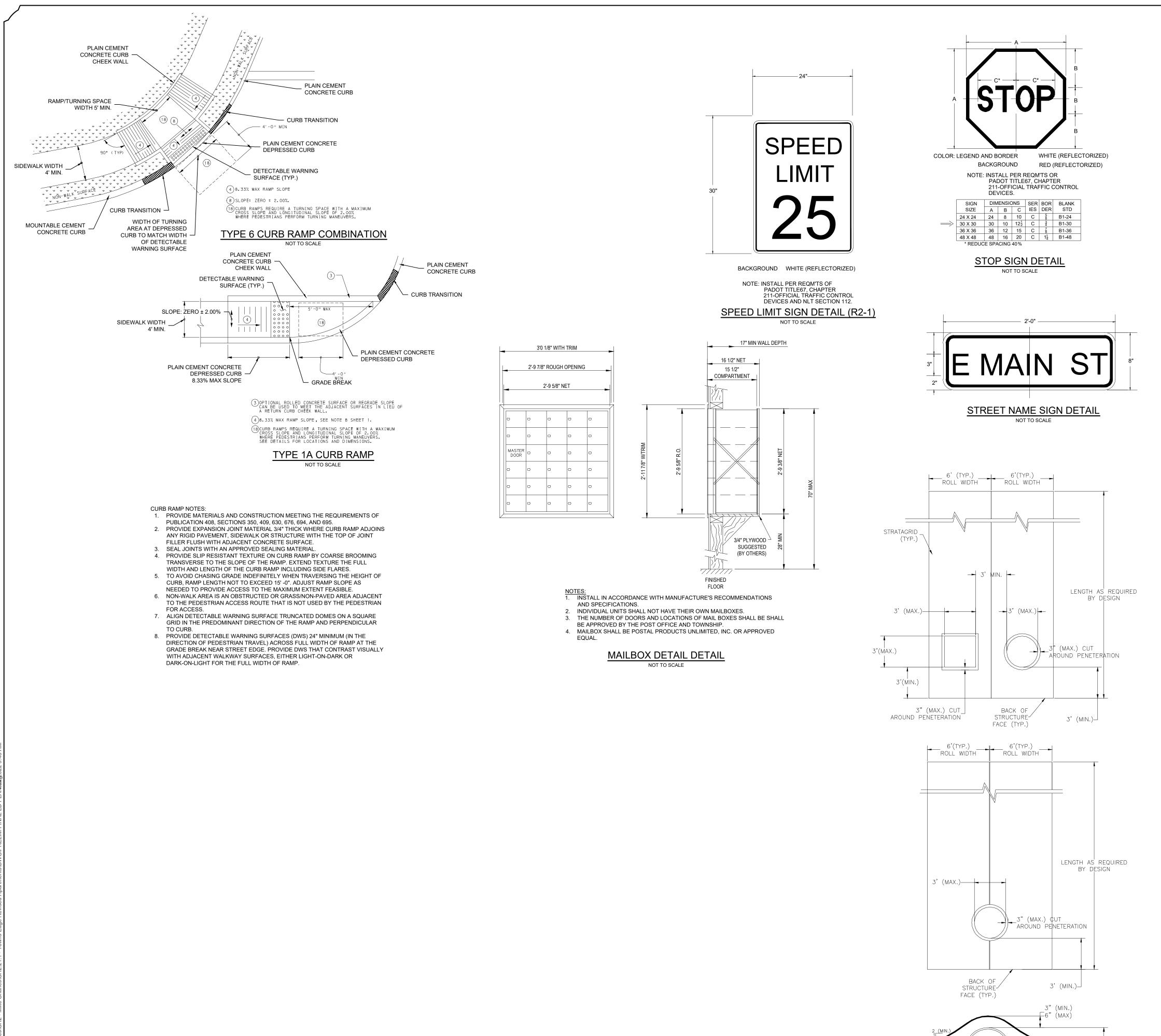








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PIPE (TYP.) GEOGRID AROUND PIPE AND VERTICAL PENETRATIONS DETAIL NOT TO SCALE

STRATAGRID (TYP.)

S	ECTION 110 - STREET CUT SPECIFICATIONS.	1
1.	WHEN WORKING WITHIN THE NORTH LEBANON TOWNSHIP RIGHT-OF-WAY, ALL OPENINGS AND OBSTRUCTIONS (ABOVE GROUND) REQUIRE A PERMIT AND MUST BE COMPLETED IN ACCORDANCE WITH. TOWNSHIP SPECIFICATION. PERMIT, BONDING AND INSURANCE CERTIFICATES REQUIRED PER TOWNSHIP ORDINANCE. THIS SHALL APPLY TO ANY RIGHT-OF-WAY INTENDED TO BE DEDICATED TO THE TOWNSHIP REGARDLESS OF WHETHER IN BINDER COURSE ONLY OR BOTH BINDER AND WEARING COURSE. THE CONTRACTOR OR PARTY RESPONSIBLE FOR THE REPAIR HAS TWO OPTIONS: (SEE EXHIBIT "I")	BY JTW JTW JTW
	A) INSTALL PERMANENT REPAIRS INITIALLY OR:	
	B) INSTALL A TEMPORARY REPAIR, THEN RETURN TO INSTALL A PERMANENT REPAIR WITHIN 90 DAYS.	52 53
2.	WITH EITHER OPTION THE CONTRACTOR, OR RESPONSIBLE PARTY, CAN BE REQUIRED TO RETURN AT ANY TIME DURING TWO YEARS MINIMUM, FOLLOWING	DATE DATE 4/6/2 4/20/2 4/20/2
	THE INITIAL WORK TO CORRECT ANY DEFICIENCIES IN ACCORDANCE WITH THE TOWNSHIP SPECIFICATIONS AND THE RECOMMENDATIONS OF THE	5 5 9 <del>7</del>
	TOWNSHIP ROADMASTER OR BOARD OF SUPERVISORS, FAILURE TO CORRECT ANY DEFICIENCIES WITHIN FIVE DAYS OF NOTIFICATION, WILL RESULT IN	
	TOWNSHIP PERFORMING THE CORRECTIONS AND BILLING THE RESPONSIBLE PARTY. SPECIAL AGREEMENTS MAY BE REQUIRED FOR UNIQUE	••••
	CIRCUMSTANCES AT THE DISCRETION OF THE BOARD OF SUPERVISORS, WHICH WOULD OVERRIDE THESE MAINTENANCE REQUIREMENTS.	
3.	EXCAVATION - TEMPORARY/PERMANENT - IN ADDITION TO THE TRENCH, EXCAVATIONS SHOULD INCLUDE THE REMOVAL OF THE EXISTING PAVED SURFACES	
	9" BACK FROM THE SIDES OF THE TRENCH EXPOSING UNDISTURBED SUBGRADE. THE PRESENT ROAD SHALL BE CUT OR SAWED IN A NEAT STRAIGHT LINE	
	TO THE BOTTOM OF THE EXISTING BASE COURSE. THE DETACHED MATERIAL SHALL BE REMOVED. NOTE: THE 9" CUTBACK IS MANDATORY FOR ALL	
	TRENCHES.	
4.		
	REQUIREMENTS FOR NO. 1 AGGREGATE) AROUND THE PIPE TO 6 INCHES ABOVE THE PIPE OR AS REQUIRED BY OTHER SPECIFICATIONS (WATER, SEWER,	
	OR GAS) AND APPROVED BY THE TOWNSHIP.	
5.	COMPACTION - TEMPORARY/PERMANENT - MATERIALS USED FOR BACKFILL MUST BE 2A MODIFIED AND MECHANICALLY TAMPED IN LAYERS OF 10-INCHES	
	OR LESS.	~
6.		000
	BITUMINOUS SURFACE. HOWEVER, IN NO CASE, SHALL THE BINDER COURSE BE LESS THAN 4" 25 MM SUPERPAVE 0.3 < 3 ESALS (AFTER COMPACTION) AND THE WEARING COURSE BE LESS THAN 1-1/2" 9.5 MM SUPERPAVE 0.3 < 3 EASLS - (AFTER COMPACTION); SRL TO BE BASED ON ADT. BINDER COURSE MAY NOT	17.2
	BE INSTALLED IN MORE THAN 2" INCREMENTS. PAVING SEAMS MUST BE SEALED. FOR NON-RESIDENTIAL STREETS THE TOWNSHIP SHALL DETERMINE EASLS	
	ACCORDING TO TRAFFIC LEVEL.	/ / 4
7.		$D \stackrel{\alpha}{\to} \stackrel{\alpha}{\to} 0$
7.	FOOT PAINTED SQUARE: WITH DURABLE WEAR-RESISTANT PAINT. STREET CUTS SHOULD BE CODED ACCORDING TO USE: BLUE FOR WATER. YELLOW FOR	DATED 3/22 DATED 4/15 R DATED 4/
	GAS OR PETROLEUM, RED FOR ELECTRIC, ORANGE FOR COMMUNICATIONS, AND GREEN FOR SEWERS. TRENCH SHOLD BE SPRAYED WITH MONTH, DAY.	
	AND YEAR WHEN THE PERMANENT REPAIR WAS COMPLETED.	DA DA
8.	ALL MATERIALS AND EQUIPMENT SHALL BE IN CONFORMANCE WITH THE LATEST REVISION OF PADOT FORM 408. ANY EXCAVATION IN NORTH LEBANON	
	TOWNSHIP RIGHT-OF-WAY MUST BE SCHEDULED WITH THE ROAD FOREMAN (273-7132) PRIOR TO COMMENCEMENT OF WORK. ANY WORK DONE WITHOUT	ERR
	THE PRIOR APPROVAL FROM NORTH LEBANON TOWNSHIP WILL BE SUBJECT TO THE ROAD FOREMAN'S DISCRETION FOR ACCEPTANCE. THE ROAD FOREMAN	TTER TTER ETTEI
	OR DESIGNEE, MUST BE NOTIFIED OF START DATE AND MUST BE ON SITE DURING ALL STONE FILL OPERATIONS, PAVING OF BINDER AND WEARING COURSE,	
	IN ORDER TO SIGN OFF ON STREET CUT PERMIT.	
S	ECTION 112 - TRAFFIC CONTROL SIGNS:	
_		VISIOI R SESI R LCPI
	ETAILS REGARDING THE PLACEMENT OF TRAFFIC SIGNS SHALL BE SHOWN ON ALL PLANS SUBMITTED FOR REVIEW. PLACEMENT SPECIFICATIONS SHALL	
С	OINCIDE WITH THE ENGINEERING AND TRAFFIC STUDY DATA. TITLE 67 OF THE PADOT RULES AND REGULATIONS, AND THE MUTCD.	PER PER PER
4	ALL TRAFFIC CONTROL SIGNS INSTALLED SHALL BE .080 ALUMINUM WITH HIGH RETRO-REFLECTIVE TYPE 3, OR PRISMATIC REFLECTIVE SHEETING, UNLESS	<b>N</b>
1.	ALL TRAFFIC CONTROL SIGNS INSTALLED SHALL BE .080 ALUMINUM WITH HIGH RETRO-REFLECTIVE TYPE 3, OR PRISMATIC REFLECTIVE SHEETING, UNLESS OTHERWISE NOTED, ALL SIGNS SHALL BE INSTALLED ON GALVANIZED BREAK-AWAY POST AT 2 LB. PER FOOT, ALL SIGNS SHALL BE INSTALLED BY THE	$\mathbf{X}$
	TOWNSHIP AND COST OF MATERIAL AND LABOR INVOICED TO THE DEVELOPER, WHICH IS PAYABLE WITHIN 20 DAYS OF RECEIPT. ALL MATERIALS TO BE	<u>۲</u>
	DUBYINGHIF AND COST OF MALERIAL AND LABOR INVOICED TO THE DEVELOPER, WHICH IS FATABLE WITHIN 20 DATS OF RECEIPT. ALL MATERIALS TO BE	<b></b>

PURCHASED THROUGH THE TOWNSHIP SUPPLIER.	
STOP SIGN (HIGH RETRO REFLECTIVE, TYPE 3)	30 X 30 R1-1
SPEED LIMIT	24 X 30 R2-1
NO OUTLET	30 X 30 W14
SCHOOL CROSSING (HIGH RETRO REFLECTIVE, TYPE 3)	30 X 30 S2-1
NO PARKING	24 X 24 S7-2
LEFT TURN	30 X 30 W1-
RIGHT TURN	30 X 30 W1-
LEFT CURVE	30 X 30 W1-
RIGHT CURVE	30 X 30 W1-
INSTALLATION OF SIGNS	

2. INSTALLATION OF SIGNS A) THE HEIGHT REQUIREMENTS FOR SIGNS IN BUSINESS, COMMERCIAL AND RESIDENTIAL DISTRICTS WHEN PARKING OR PEDESTRIAN MOVEMENT IS LIKELY TO OCCUR OR WHEN THERE ARE OTHER OBSTRUCTIONS TO VIEW, THE CLEARANCE TO THE BOTTOM OF THE SIGN SHALL BE AT LEAST SEVEN FEET (7" B) TEMPORARY STOP SIGNS ARE REQUIRED AT ALL LOCATIONS WHERE PERMANENT STOP SIGNS ARE REQUIRED. THE TEMPORARY STOP SIGNS MUST BE INSTALLED BY THE DEVELOPER IMMEDIATELY FOLLOWING INITIAL ROAD CUT. THIS WILL PROVIDE AWARENESS OF TRAFFIC PATTERNS TO ANY PERSON WORKING OR DELIVERING WITHIN DEVELOPMENT.

LATERAL CLEARANCE A) A CLEARANCE OF TWO (2) FEET FROM THE BACK (HOUSE SIDE) FACE CURB AND ONE (1) FOOT FROM THE EDGE OF SIDEWALK. B) ERECTION OF SIGNS SHOULD BE MOUNTED APPROXIMATELY AT RIGHT ANGLES TO THE DIRECTION OF, AND FACING TRAFFIC THAT THEY ARE INTENDED TO SERVE. AT CURVED ALIGNMENTS, THE ANGLE OR PLACEMENT SHOULD BE DETERMINED BY THE COURSE OF APPROACHING TRAFFIC RATHER THAN BY ROADWAY EDGE AT THE POINT WHERE THE SIGN IS LOCATED. SIGN FACES NORMALLY ARE VERTICAL, BUT ON GRADES IT MAY BE DESIRABLE TO TILT A SIGN FORWARD OR BACK FROM THE VERTICAL TO IMPROVE THE VIEWING ANGLE.

C) REQUIREMENTS FOR POSTS AND MOUNTING SIGN POSTS AND THEIR FOUNDATIONS AND SIGN MOUNTING SHALL BE SO CONSTRUCTED AS TO HOLD SIGNS IN PROPER AND PERMANENT POSITION TO RESIST SWAYING BY THE WIND OR DISPLACEMENT BY VANDALISM. SIGN SUPPORTS SHOULD BE OF A BREAK-AWAY TYPE. CONCRETE BASIS FOR SIGN SUPPORTS SHOULD FLUSH WITH GROUND LEVEL 4. STREET SIGNS

A) STREET SIGNS SHALL BE WHITE LETTERS ON GREEN BACKGROUND. DOUBLE BLADE, SINGLE SIDED PRINTING ON 0.080", RETRO-REFLECTIVE ALUMINUM. LETTER SIZE SHALL BE MINIMUM SIX INCHED (6") HIGH, BLANK TO BE EIGHT INCHES (8"). POST SHALL BE 2-1/2-INCH SQUARE BREAK AWAY STYLE POSTS GALVANIZED, TEN FOOT (10") LONG. B) MOUNTING HARDWARE FOR SIGNS SHALL BE:

1. NUTS, BOLTS, RIVETS, AND SPACERS TO MOUNT TWO BLADES OR FOUR BLADES TO A SQUARE POST. C) STREET SIGNS MUST BE LOCATED AT ALL INTERSECTIONS WITH ALL STREET NAMES.

D) SIZE OF STREET SIGNS CAN RANGE FROM 8" X 18" TO 8" X 48" AND REQUIRES APPROVAL FROM ROAD FOREMAN PRIOR TO INSTALLATION. E) DEVELOPER MUST SUPPLY TOWNSHIP WITH ONE(1) INVENTORY SIGN FOR EACH STREET NAME AND ONE (1) SPEED LIMIT AND STOP SIGN.

5. AS BUILT DRAWINGS 6. AS BUILT DRAWINGS ARE REQUIRED FOR ALL STREETLIGHTS, WIRING AND DISCONNECT SWITCHES, STORMWATER PIPE, CATCH BASINS, AND ALL APPURTENANCES ASSOCIATED WITH IMPROVEMENTS LOCATED IN THE DEVELOPMENT. THESE DRAWINGS MUST BE IN "DWG" FILE OR AN ELECTRONIC FILE APPROVED BY THE TOWNSHIP.

7. CONCRETE MONUMENTS. 8. ALL CONCRETE MONUMENTS MUST BE PLACED AT TOWNSHIP RIGHT-OF-WAY LINE.

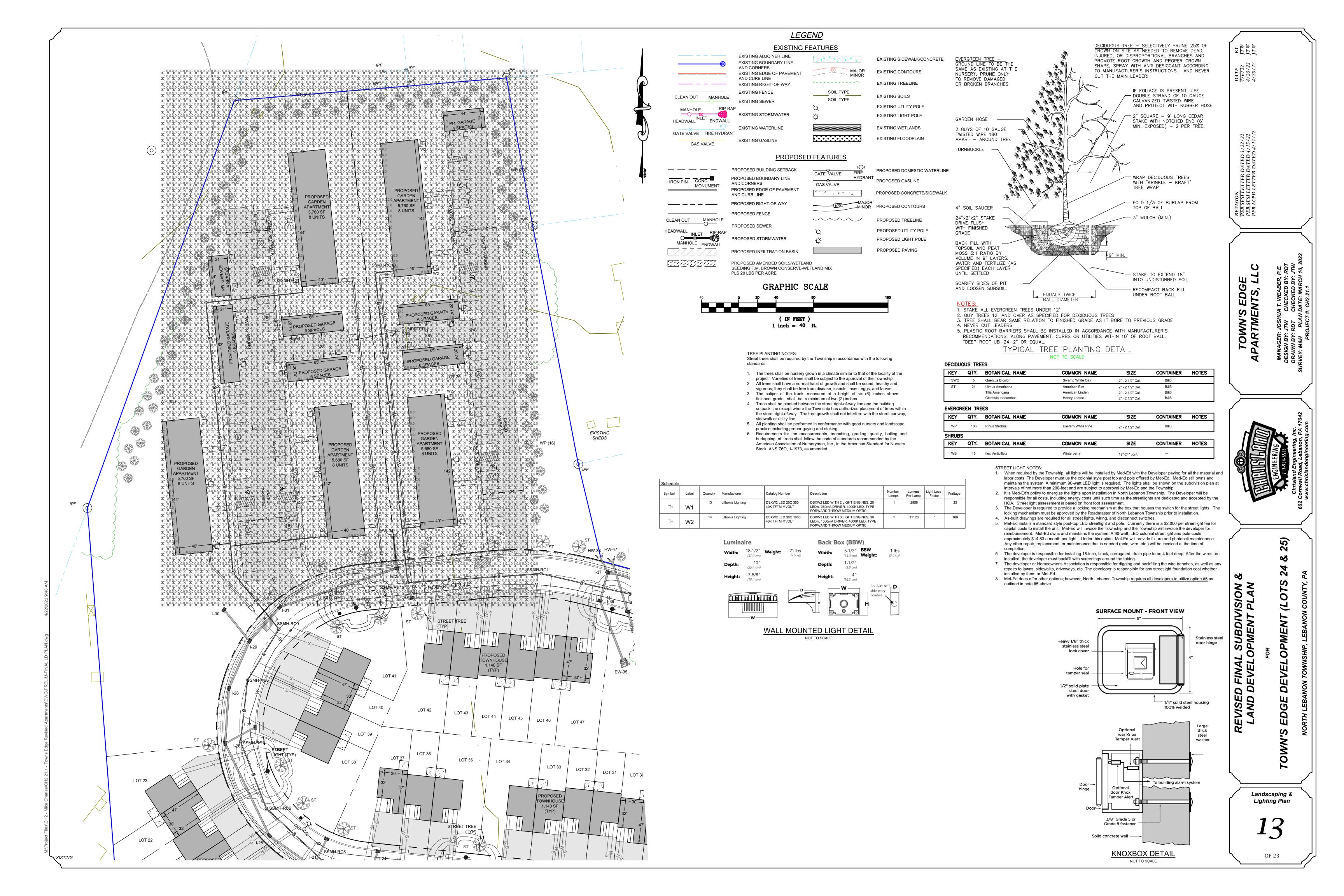
SECTION 110 - STREET CUT SPECIFICATIONS.

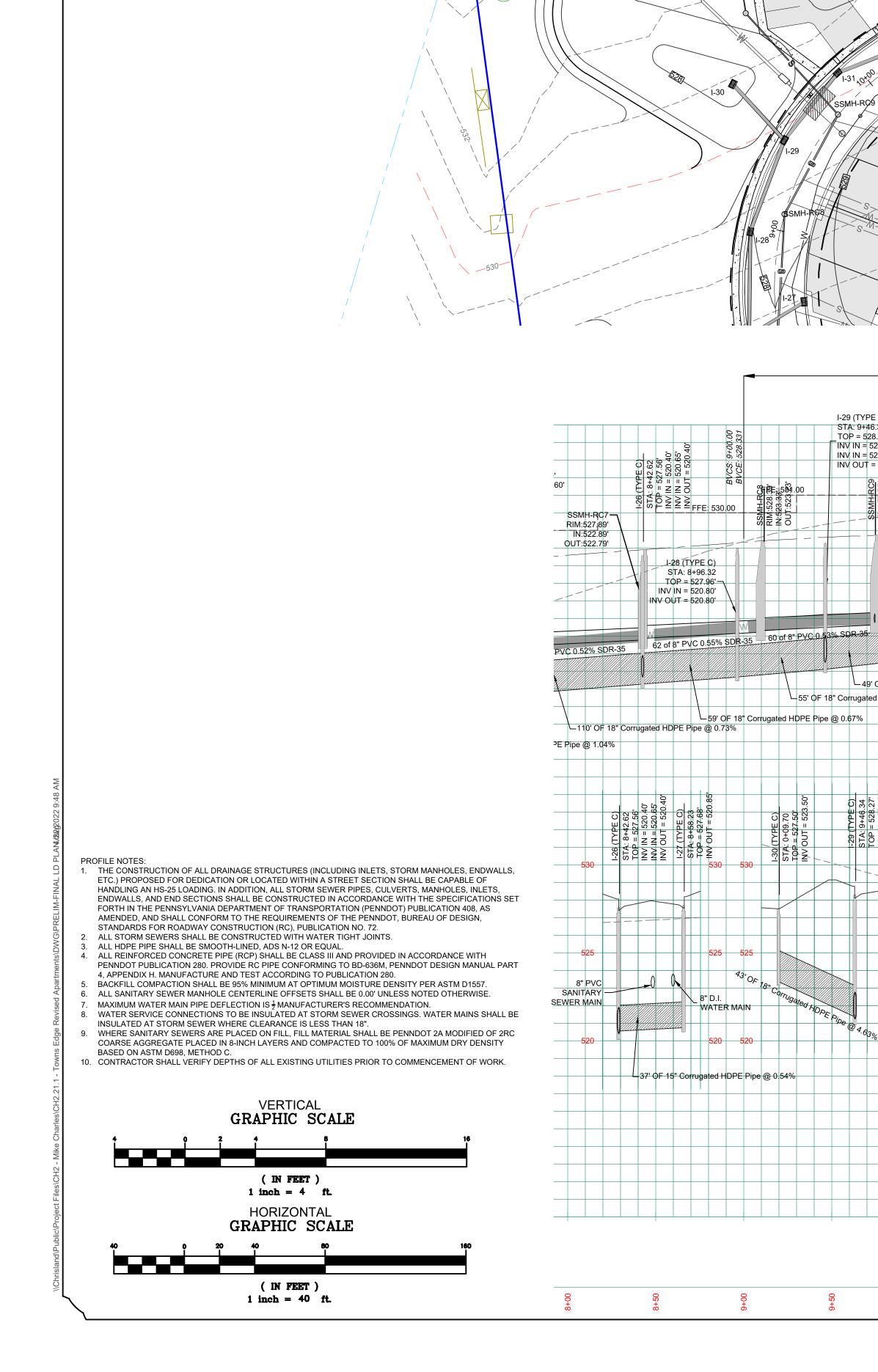
11 DEVIATIONS

9. STORING OF CONSTRUCTION MATERIALS 0. CONTRACTORS MUST KEEP STREETS, DEDICATED AND UNDEDICATED, FREE OF CONSTRUCTION EQUIPMENT, MATERIALS AND DEBRIS. STREETS SHALL NOT BE USED FOR THE STORAGE OF MATERIALS DURING SITE CONSTRUCTION. IF IT IS NECESSARY TO PLACE OR STORE CONSTRUCTION MATERIAL, EQUIPMENT, DUMPSTERS, ETC. IN THE STREET, THIS OBSTACLE MUST BE CLEARLY MARKED WITH WORKING BLINKING BARRICADE(S). IF THE CONTRACTOR FAILS TO DO SO, THERE WILL BE A SEPARATE PENALTY ESTABLISHED BY THE BOARD OF SUPERVISORS. THE BOARD OF SUPERVISORS SHALL BE ABLE TO HAVE THE AREA PROPERLY MARKED AND BARRICADED AND TO HAVE THE COSTS AND PENALTY PAID FROM THE BOND POSTED WITH LEBANON COUNTY PLANNING DEPARTMENT (COUNTY COMMISSIONERS) AND OR TOWNSHIP.

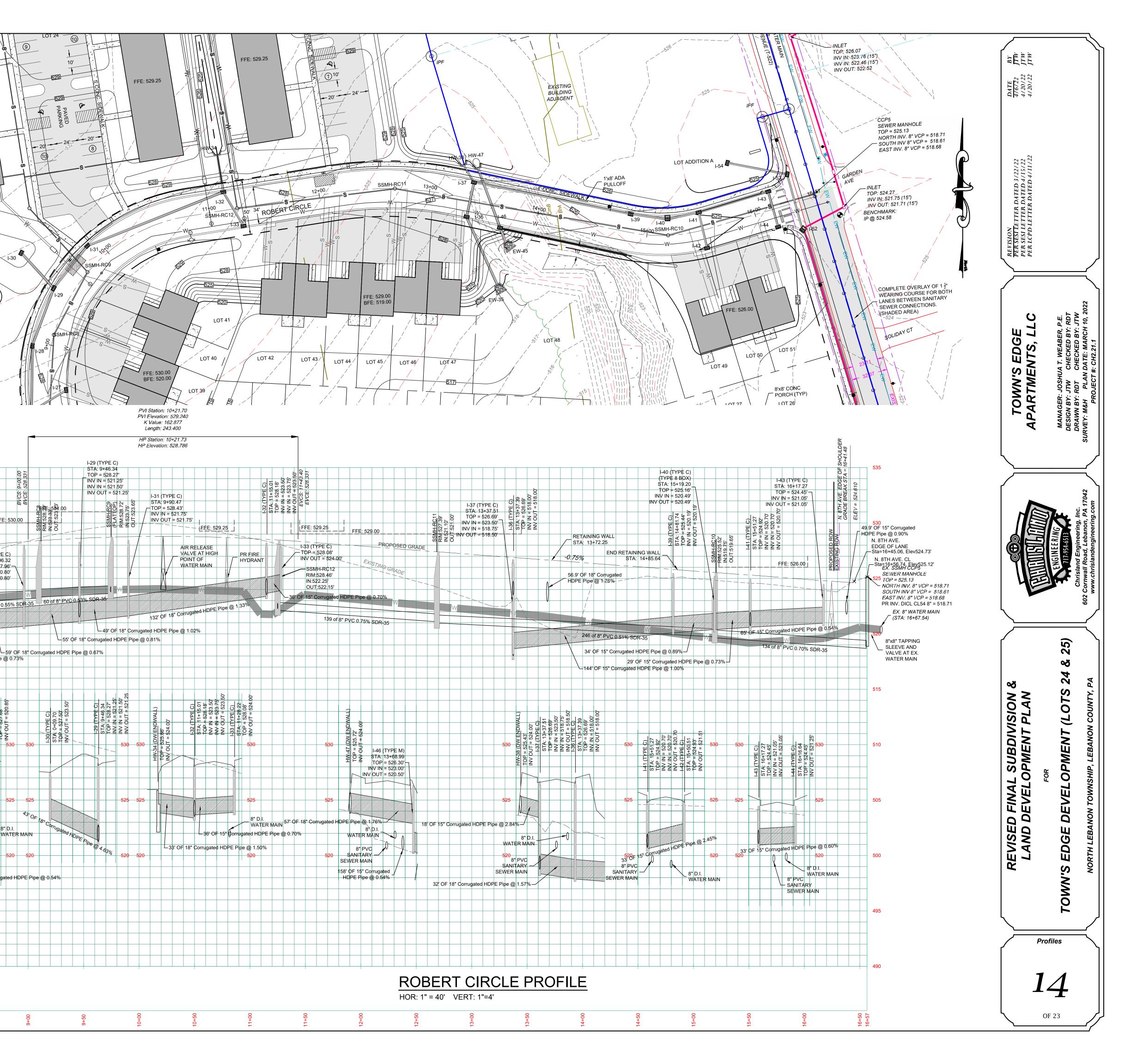
12. ANY DEVIATIONS FROM THESE REGULATIONS MUST BE REQUESTED BY THE DEVELOPER OR HIS AGENT IN WRITING AND APPROVED BY THE NORTH LEBANON TOWNSHIP BOARD OF SUPERVISORS. ANY DEVIATIONS APPROVED BY THE BOARD OF SUPERVISORS MUST BE LISTED ON THE PRELIMINARY AND FINAL PLAN IF PRIOR TO RECORDING.

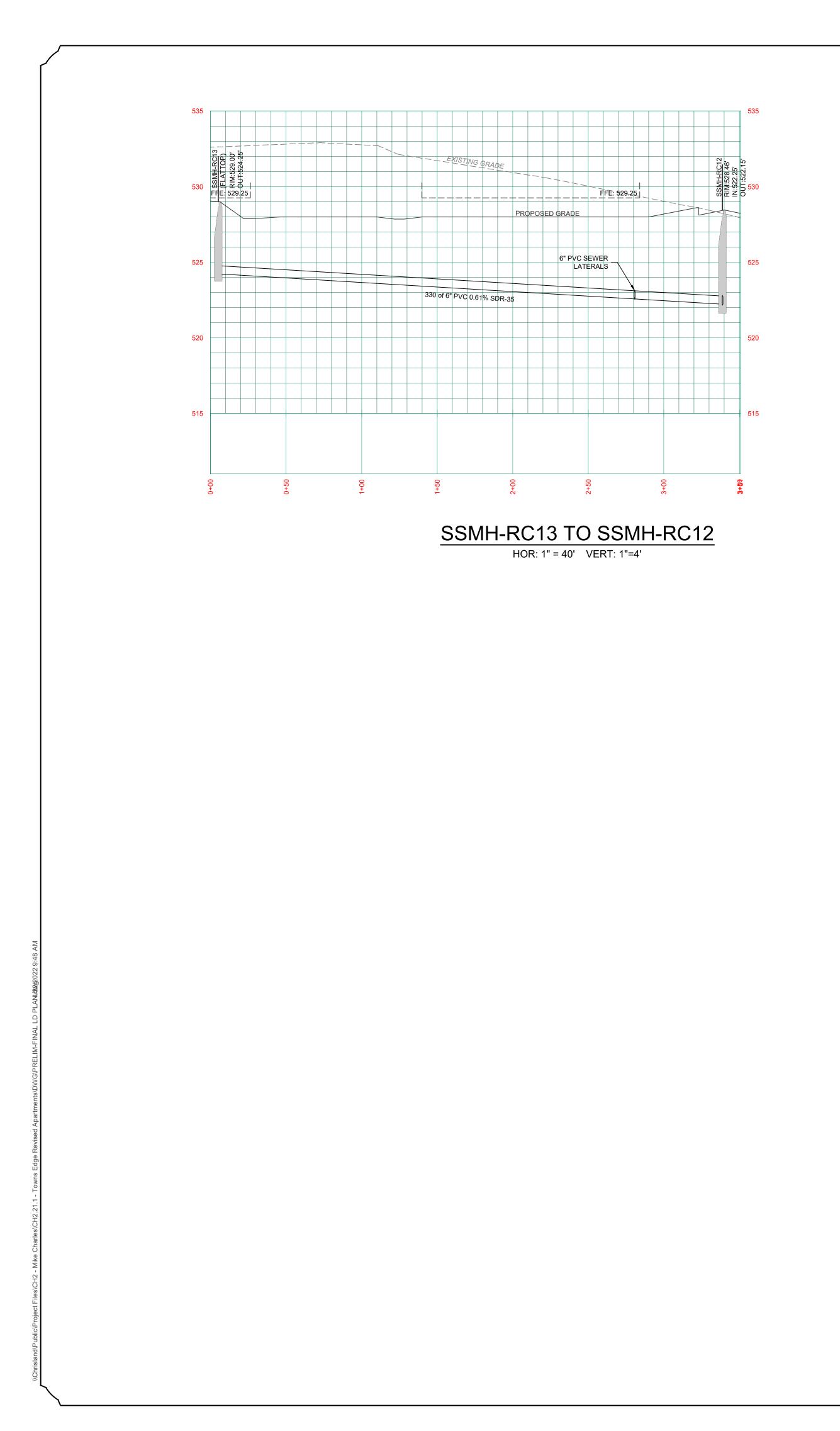


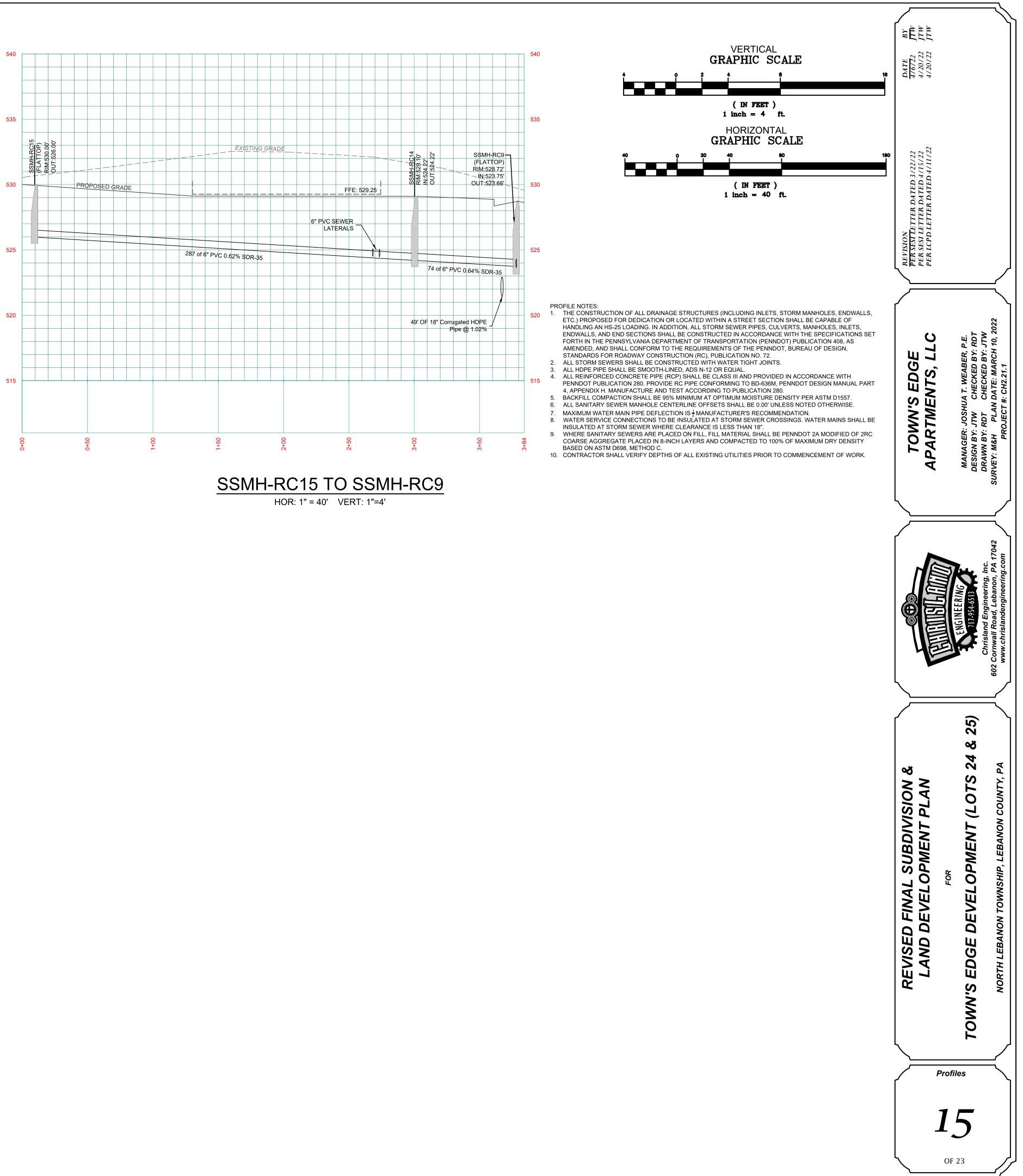


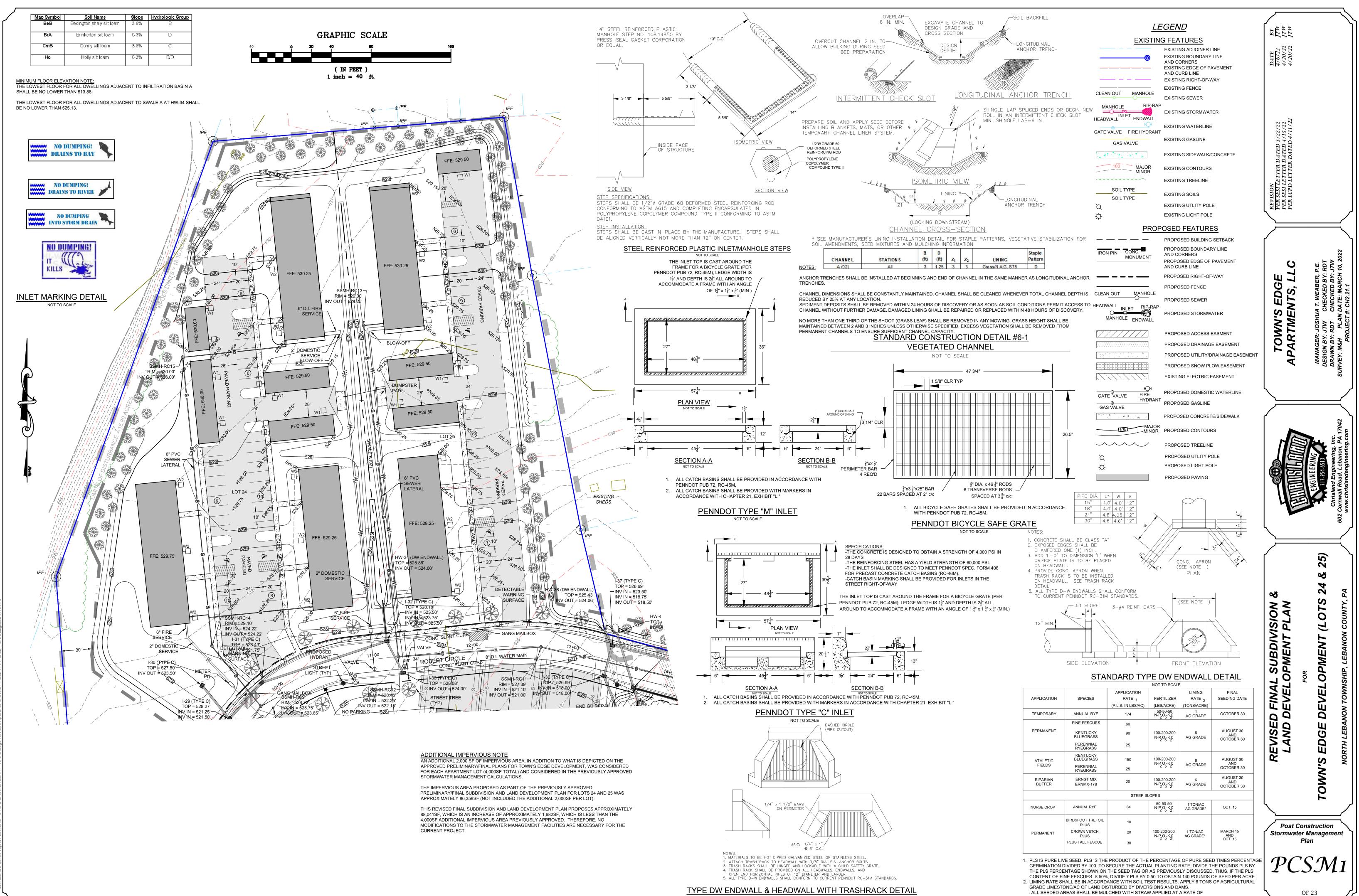


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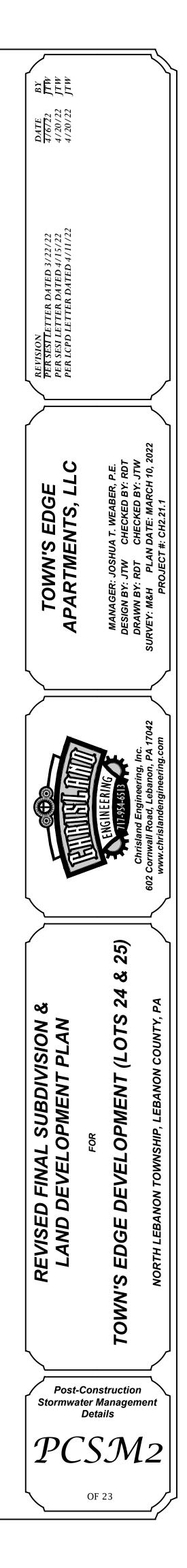




NOT TO SCALE

³ TONS/ACRE. MULCH TO BE ANCHORED WITH WOOD CELLULOSE FIBER @ 750 LBS/AC.

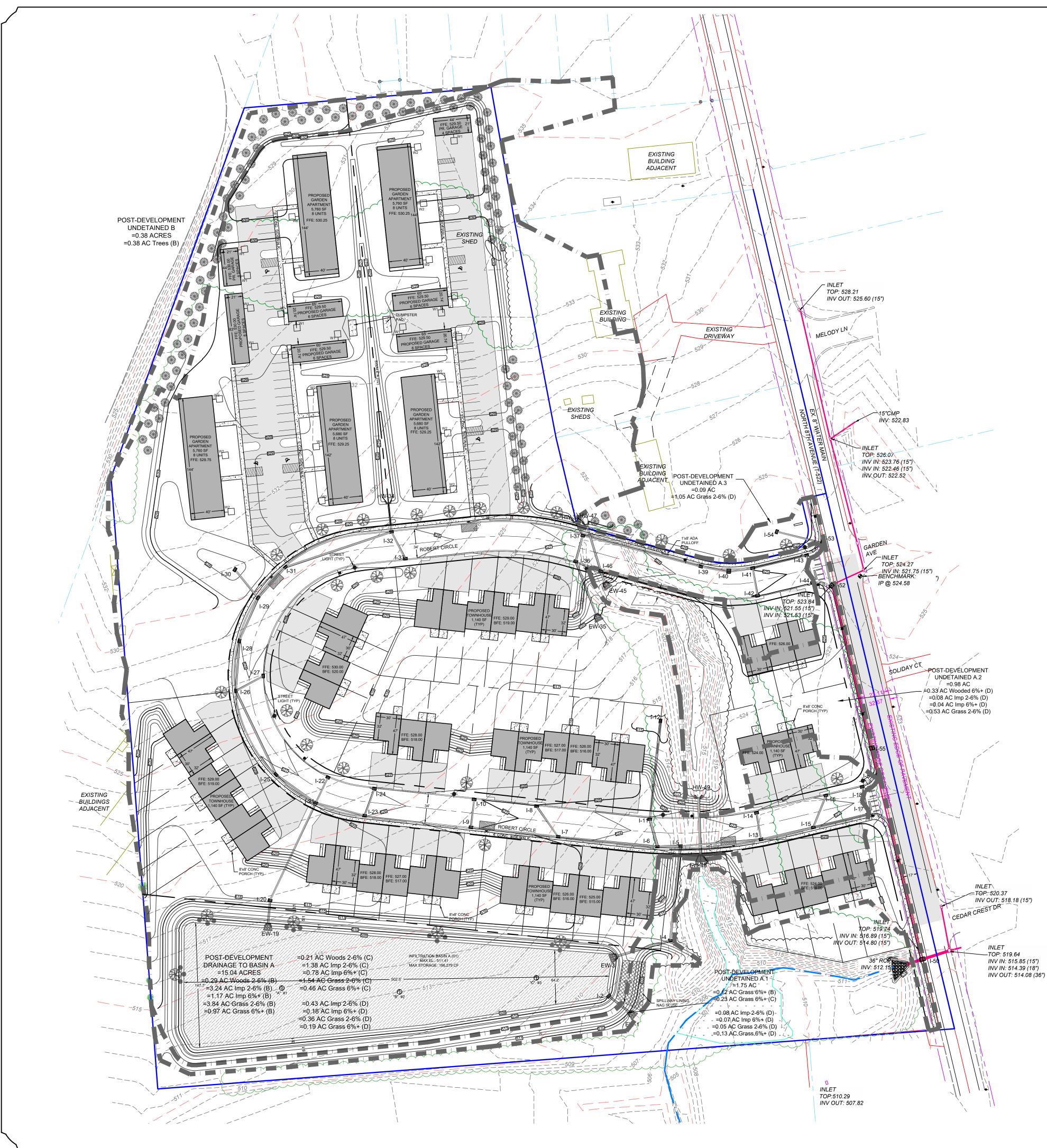
۱	POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) STANDARD NOTES	VEGETATED SWALE VEGETATED SWALES ARE BROAD, SHALLOW CHANNELS DESIGNED TO SLOW RUNOFF, PROMOTE INFILTRATION, AND FILTER POLLUTANTS AND SEDIMENTS IN THE PROCESS OF
	PCSM REQUIREMENTS	CONVEYING RUNOFF. VEGETATED SWALES PROVIDE AN ENVIRONMENTALLY SUPERIOR ALTERNATIVE TO CONVENTIONAL CURB AND GUTTER CONVEYANCE SYSTEMS, WHILE PROVIDING PARTIALLY TREATED (PRETREATMENT) AND PARTIALLY DISTRIBUTED STORMWATER FLOWS TO SUBSEQUENT BMPS. SWALES ARE OFTEN HEAVILY VEGETATED
	IMPLEMENTATION OF THE APPROVED PCSM PLAN. THE CRITICAL STAGES MAY INCLUDE THE INSTALLATION OF UNDERGROUND	WITH A DENSE AND DIVERSE SELECTION OF NATIVE, CLOSE-GROWING, WATER-RESISTANT PLANTS WITH HIGH POLLUTANT REMOVAL POTENTIAL. THE VARIOUS POLLUTANT E REMOVAL MECHANISMS OF A SWALE INCLUDE: SEDIMENTARY FILTERING BY THE SWALE VEGETATION (BOTH ON SIDE SLOPES AND ON BOTTOM), FILTERING THROUGH A
	DEPARTMENT OR THE CONSERVATION DISTRICT. THE PCSM PLAN INSPECTION REPORTS AND MONITORING RECORDS SHALL BE AVAILABLE FOR REVIEW AND INSPECTION BY THE	SUBSOIL MATRIX, AND/OR INFILTRATION INTO THE UNDERLYING SOILS WITH THE FULL ARRAY OF INFILTRATION-ORIENTED POLLUTANT REMOVAL MECHANISMS. A VEGETATED SWALE TYPICALLY CONSISTS OF A BAND OF DENSE VEGETATION, UNDERLAIN BY AT LEAST 24 INCHES OF PERMEABLE SOIL. SWALES CONSTRUCTED WITH AN
	DEPARTMENT OR THE CONSERVATION DISTRICT.	UNDERLYING 12 TO 24 INCH AGGREGATE LAYER PROVIDE SIGNIFICANT VOLUME REDUCTION AND REDUCE THE STORMWATER CONVEYANCE RATE. THE PERMEABLE SOIL MEDIA SHOULD HAVE A MINIMUM INFILTRATION RATE OF 0.5 INCHES PER HOUR AND CONTAIN A HIGH LEVEL OF ORGANIC MATERIAL TO ENHANCE POLLUTANT REMOVAL. A
	PCSM LONG TERM OPERATIONS AND MAINTENANCE REQUIREMENTS	NONWOVEN GEOTEXTILE SHOULD COMPLETELY WRAP THE AGGREGATE TRENCH. CONSTRUCTION SEQUENCE
	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	1. BEGIN VEGETATED SWALE CONSTRUCTION ONLY WHEN THE UPGRADIENT TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE. VEGETATED
	MAINTENANCE OF PCSM BMPS.	AND VOLUME OF RUNOFF. (EROSION AND SEDIMENT CONTROL METHODS SHALL ADHERE TO THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S
	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.	FROM THE SIDE OF THE SWALE AND NEVER ON THE BOTTOM. IF EXCAVATION LEADS TO SUBSTANTIAL COMPACTION OF THE SUBGRADE (WHERE AN INFILTRATION TRENCH IS NOT PROPOSED), 18 INCHES SHALL BE REMOVED AND REPLACED WITH A BLEND OF TOPSOIL AND SAND TO PROMOTE INFILTRATION AND BIOLOGICAL
		GROWTH. AT THE VERY LEAST, TOPSOIL SHALL BE THOROUGHLY DEEP PLOWED INTO THE SUBGRADE IN ORDER TO PENETRATE THE COMPACTED ZONE AND PROMOTE AERATION AND THE FORMATION OF MACROPORES. FOLLOWING THIS, THE AREA SHOULD BE DISKED PRIOR TO FINAL GRADING OF TOPSOIL.
	UPON PERMANENT STABILIZATION OF THE EARTH DISTURBANCE ACTIVITY AND INSTALLATION OF BMPS IN ACCORDANCE WITH AN APPROVED PLAN, THE PERMITTEE OR CO-PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION TO THE DEPARTMENT OR CONSERVATION DISTRICT.	
	CONSERVATION DISTRICT. THE NOTICE OF TERMINATION MUST INCLUDE:	5. SEED, VEGETATE AND INSTALL PROTECTIVE LINING AS PER APPROVED PLANS AND ACCORDING TO FINAL PLANTING LIST. PLANT THE SWALE AT A TIME OF THE YEAR WHEN SUCCESSFUL ESTABLISHMENT WITHOUT IRRIGATION IS MOST LIKELY. HOWEVER, TEMPORARY IRRIGATION MAY BE NEEDED IN PERIODS OF LITTLE RAIN OR DROUGHT.
	(1) THE FACILITY NAME, ADDRESS AND LOCATION	VEGETATION SHOULD BE ESTABLISHED AS SOON AS POSSIBLE TO PREVENT EROSION AND SCOUR. 6. ONCE ALL TRIBUTARY AREAS ARE SUFFICIENTLY STABILIZED, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS. IT IS VERY IMPORTANT THAT THE SWALE BE
	<ul><li>(2) THE OPERATOR NAME AND ADDRESS</li><li>(3) THE NPDES PERMIT NUMBER</li></ul>	STABILIZED BEFORE RECEIVING UPLAND STORMWATER FLOW. 7. FOLLOW MAINTENANCE GUIDELINES, AS DESCRIBED BELOW.
	(5) IDENTIFICATION OF THE PERSONS WHO HAVE AGREED TO AND WILL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM	NOTE: IF A VEGETATED SWALE IS USED FOR CONVEYANCE DURING CONSTRUCTION, IT SHOULD BE REGRADED AND RESEEDED IMMEDIATELY AFTER CONSTRUCTION AND STABILIZATION HAS OCCURRED. ANY DAMAGED AREAS SHOULD BE FULLY RESTORED TO ENSURE FUTURE FUNCTIONALITY OF THE SWALE.
	(6) COPY OF LEGAL INSTRUMENT: 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 THE	
	INSTRUMENT MUST IDENTIFY THE PCSM BMP. PROVIDE FOR NECESSARY ACCESS RELATED TO LONG-TERM OPERATION AND	COMPARED TO OTHER STORMWATER MANAGEMENT MEASURES, THE REQUIRED UPKEEP OF VEGETATED SWALES IS RELATIVELY LOW. IN GENERAL, MAINTENANCE
	MAINTENANCE OF THE PCSM BMP IS A COVENANT THAT RUNS WITH THE LAND THAT IS BINDING UPON AND ENFORCEABLE BY	STRATEGIES FOR SWALES FOCUS ON SUSTAINING THE HYDRAULIC AND POLLUTANT REMOVAL EFFICIENCY OF THE CHANNEL, AS WELL AS MAINTAINING A DENSE VEGETATIVE COVER. EXPERIENCE HAS PROVEN THAT PROPER MAINTENANCE ACTIVITIES ENSURE THE FUNCTIONALITY OF VEGETATED SWALES FOR MANY YEARS. THE FOLLOWING SCHEDULE OF INSPECTION AND MAINTENANCE ACTIVITIES IS RECOMMENDED:
	(7) FINAL CERTIFICATION: THE PERMITTEE SHALL INCLUDE WITH THE NOTICE OF TERMINATION "RECORD DRAWINGS" WITH A	MAINTENANCE ACTIVITIES TO BE DONE ANNUALLY AND WITHIN 48 HOURS AFTER EVERY MAJOR STORM EVENT (> 1 INCH RAINFALL DEPTH):
	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,	1. INSPECT AND CORRECT EROSION PROBLEMS, DAMAGE TO VEGETATION, AND SEDIMENT AND DEBRIS ACCUMULATION (ADDRESS WHEN > 3 INCHES AT ANY SPOT OR COVERING VEGETATION)
	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	2. INSPECT VEGETATION ON SIDE SLOPES FOR EROSION AND FORMATION OF RILLS OR GULLIES, CORRECT AS NEEDED 3. INSPECT FOR POOLS OF STANDING WATER; DEWATER AND DISCHARGE TO AN APPROVED LOCATION AND RESTORE TO DESIGN GRADE
	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	4. MOW AND TRIM VEGETATION TO ENSURE SAFETY, AESTHETICS, PROPER SWALE OPERATION, OR TO SUPPRESS WEEDS AND INVASIVE VEGETATION; DISPOSE OF CUTTINGS IN A LOCAL COMPOSTING FACILITY; MOW ONLY WHEN SWALE IS DRY TO AVOID RUTTING
	PRACTICES." (1) THE PERMITTEE SHALL RETAIN A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED PCSM PLAN.	5. INSPECT FOR LITTER; REMOVE PRIOR TO MOWING
	(2) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPS.	6. INSPECT FOR UNIFORMITY IN CROSS-SECTION AND LONGITUDINAL SLOPE, CORRECT AS NEEDED N 7. INSPECT SWALE INLET (CURB CUTS, PIPES, ETC.) AND OUTLET FOR SIGNS OF EROSION OR BLOCKAGE, CORRECT AS NEEDED
	INFILTRATION BASINS	MAINTENANCE ACTIVITIES TO BE DONE AS NEEDED:
	INFILTRATION BASINS ARE SHALLOW, IMPOUNDED AREAS DESIGNED TO TEMPORARILY STORE AND INFILTRATE STORMWATER RUNOFF. THE SIZE AND SHAPE CAN VARY FROM ONE LARGE BASIN TO MULTIPLE, SMALLER BASINS THROUGHOUT A SITE. IDEALLY, THE BASIN SHOULD AVOID	1. RE-PLANT SPECIFIED GRASS SPECIES IN THE EVENT OF UNSUCCESSFUL ESTABLISHMENT. INSTALL NAG S75 MATTING IN AREAS WHERE INITIAL GRASS ESTABLISHMENT
	DISTURBANCE OF EXISTING VEGETATION. IF DISTURBANCE IS UNAVOIDABLE, REPLANTING AND LANDSCAPING MAY BE NECESSARY AND SHOULD INTEGRATE THE EXISTING LANDSCAPE AS SUBTLY AS POSSIBLE AND COMPACTION OF THE SOIL MUST BE PREVENTED INFILTRATION BASINS USE	2. RESEED BARE AREAS; INSTALL APPROPRIATE EROSION CONTROL MEASURES WHEN NATIVE SOIL IS EXPOSED OR EROSION CHANNELS ARE FORMING
	THE EXISTING SOIL MANTLE TO REDUCE THE VOLUME OF STORMWATER RUNOFF BY INFILTRATION AND EVAPOTRANSPIRATION. THE QUALITY OF THE RUNOFF IS ALSO IMPROVED BY THE NATURAL CLEANSING PROCESSES OF THE EXISTING SOIL MANTLE AND ALSO BY THE VEGETATION PLANTED IN THE BASINS.	5. RUTUTILL AND REPLANT SWALE IF DRAW DOWN TIME IS MORE THAN 40 HOURS
	CONSTRUCTION SEQUENCE	5. WATER DURING DRY PERIODS, FERTILIZE, AND APPLY PESTICIDE ONLY WHEN ABSOLUTELY NECESSARY
	1. PROTECT INFILTRATION BASIN AREA FROM COMPACTION PRIOR TO INSTALLATION.	MOST OF THE ABOVE MAINTENANCE ACTIVITIES ARE REASONABLY WITHIN THE ABILITY OF INDIVIDUAL HOMEOWNERS. MORE INTENSIVE SWALES (I.E. MORE SUBSTANTIAL
	2. IF POSSIBLE, INSTALL INFILTRATION BASIN DURING LATER PHASES OF SITE CONSTRUCTION TO PREVENT SEDIMENTATION AND/OR DAMAGE FROM CONSTRUCTION ACTIVITY. AFTER INSTALLATION, PREVENT SEDIMENT LADEN WATER FROM ENTERING INLETS AND PIPES.	VEGETATION, CHECK DAMS, ETC.) MAY WARRANT MORE INTENSIVE MAINTENANCE DUTIES AND SHOULD BE VESTED WITH A RESPONSIBLE AGENCY. A LEGALLY BINDING AND ENFORCEABLE MAINTENANCE AGREEMENT BETWEEN THE FACILITY OWNER AND THE LOCAL REVIEW AUTHORITY MIGHT BE WARRANTED TO ENSURE SUSTAINED MAINTENANCE EXECUTION. WINTER CONDITIONS ALSO NECESSITATE ADDITIONAL MAINTENANCE CONCERNS, WHICH INCLUDE THE FOLLOWING:
	<ol> <li>INSTALL AND MAINTAIN PROPER EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.</li> <li>IF NECESSARY, EXCAVATE INFILTRATION BASIN BOTTOM TO AN UNCOMPACTED SUBGRADE FREE FROM ROCKS AND DEBRIS. DO NOT</li> </ol>	1. INSPECT SWALE IMMEDIATELY AFTER THE SPRING MELT, REMOVE RESIDUALS (E.G. SAND) AND REPLACE DAMAGED VEGETATION WITHOUT DISTURBING REMAINING VEGETATION.
	COMPACT SUBGRADE. 5. INSTALL OUTLET CONTROL STRUCTURES.	2. IF ROADSIDE OR PARKING LOT RUNOFF IS DIRECTED TO THE SWALE, MULCHING AND/OR SOIL AERATION/MANIPULATION MAY BE REQUIRED IN THE SPRING TO RESTORE SOIL STRUCTURE AND MOISTURE CAPACITY AND TO REDUCE HE IMPACTS OF DEICING AGENTS.
	6. SEED AND STABILIZE TOPSOIL. (VEGETATE IF APPROPRIATE WITH NATIVE PLANTINGS.) 7. DO NOT REMOVE INLET PROTECTION OR OTHER EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS FULLY STABILIZED.	3. USE NONTOXIC, ORGANIC DEICING AGENTS, APPLIED EITHER AS BLENDED, MAGNESIUM CHLORIDE-BAS LIQUID PRODUCTS OR AS PRETREATED SALT
	MAINTENANCE ISSUES	4. USE SALT-TOLERANT VEGETATION IN SWALES.
- 1	PROPERLY DESIGNED AND INSTALLED RETENTION AREAS REQUIRE SOME REGULAR MAINTENANCE:	SPECIFICATIONS THE FOLLOWING SPECIFICATIONS ARE PROVIDED FOR INFORMATION PURPOSES ONLY. THESE SPECIFICATIONS INCLUDE INFORMATION ON ACCEPTABLE MATERIALS FOR
	MAINTENANCE ACTIVITIES TO BE DONE ANNUALLY AND WITHIN 48 HOURS AFTER EVERY MAJOR STORM EVENT (> 1 INCH RAINFALL DEPTH): 1. INSPECT AND CORRECT EROSION PROBLEMS, DAMAGE TO VEGETATION, AND SEDIMENT AND DEBRIS ACCUMULATION (ADDRESS WHEN > 3	TYPICAL APPLICATIONS, BUT ARE BY NO MEANS EXCLUSIVE OR LIMITING. THE DESIGNER IS RESPONSIBLE FOR DEVELOPING DETAILED SPECIFICATIONS FOR INDIVIDUAL DESIGN PROJECTS IN ACCORDANCE WITH THE PROJECT CONDITIONS.
	INCHES AT ANY SPOT OR COVERING VEGETATION) 2. INSPECT VEGETATION ON SIDE SLOPES FOR EROSION AND FORMATION OF RILLS OR GULLIES, CORRECT AS NEEDED	1. SWALE SOIL SHALL BE USCS CLASS ML (INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS WITH SLIGHT PLASTICITY), SM (SILTY SANDS,
	3. MOW AND TRIM VEGETATION TO ENSURE SAFETY, AESTHETICS, PROPER RETENTION BASIN OPERATION, OR TO SUPPRESS WEEDS AND INVASIVE VEGETATION; DISPOSE OF CUTTINGS IN A LOCAL COMPOSTING FACILITY; MOW ONLY WHEN RETENTION BASIN IS DRY TO AVOID	POORLY GRADED SAND-SILT MIXTURES), SW (WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES) OR SC (CLAYEY SANDS, POORLY GRADED SAN CLAY MIXTURES). THE FIRST THREE OF THESE DESIGNATIONS ARE PREFERRED FOR SWALES IN COLD CLIMATES. IN GENERAL, SOIL WITH A HIGHER PERCENT ORGANIC CONTENT
	RUTTING 4. INSPECT FOR LITTER; REMOVE PRIOR TO MOWING	IS PREFERRED. 2. SWALE SAND SHALL BE ASTM C-33 FINE AGGREGATE CONCRETE SAND (0.02 IN TO 0.04 IN).
	5. INSPECT RETENTION BASIN INLET (CURB CUTS, PIPES, ETC.) AND OUTLET FOR SIGNS OF EROSION OR BLOCKAGE, CORRECT AS NEEDED	3. CHECK DAMS CONSTRUCTED OF NATURAL WOOD SHALL BE 6 IN TO 12 IN DIAMETER AND NOTCHED AS NECESSARY. THE FOLLOWING SPECIES ARE ACCEPTABLE: BLACK LOCUST, RED MULBERRY, CEDARS, CATALPA, WHITE OAK, CHESTNUT OAK, BLACK WALNUT. THE FOLLOWING SPECIES ARE NOT ACCEPTABLE, AS THEY CAN ROT OVER
	MAINTENANCE ACTIVITIES TO BE DONE AS NEEDED:	TIME: ASH, BEECH, BIRCH, ELM, HACKBERRY, HEMLOCK, HICKORIES, MAPLES, RED AND BLACK OAK, PINES, POPLAR, SPRUCE, SWEETGUM, AND WILLOW. AN EARTHEN CHECK DAM SHALL BE CONSTRUCTED OF SAND, GRAVEL, AND SANDY LOAM TO ENCOURAGE GRASS COVER (SAND: ASTM C-33 FINE CHECK DAM AGGREGATE CONCRETE
Σ	1. RE-PLANT SPECIFIED GRASS SPECIES IN THE EVENT OF UNSUCCESSFUL ESTABLISHMENT. INSTALL NAG S75 MATTING IN AREAS WHERE INITIAL GRASS ESTABLISHMENT WAS NOT SUCCESSFUL.	SAND 0.02 IN TO 0.04 IN, GRAVEL: AASHTO M-43 0.5 IN TO 1.0 IN). A STONE SHALL BE CONSTRUCTED OF R-4 RIP RAP, OR EQUIVALENT. 4. DEVELOP A NATIVE PLANTING MIX.
9:48 A	2. RESEED BARE AREAS; INSTALL APPROPRIATE EROSION CONTROL MEASURES WHEN NATIVE SOIL IS EXPOSED OR EROSION CHANNELS ARE FORMING.	
<b>R</b> 02022	3. ROTOTILL AND REPLANT INFILTRATION BASIN/BIORETENTION IF DRAW DOWN TIME IS MORE THAN 72 HOURS. 4. WATER DURING DRY PERIODS, FERTILIZE, AND APPLY PESTICIDE ONLY WHEN ABSOLUTELY NECESSARY.	INFILTRATION BASIN INFILTRATION BASINS ARE SHALLOW, IMPOUNDED AREAS DESIGNED TO TEMPORARILY STORE AND INFILTRATE STORMWATER RUNOFF. THE
LANIA	DAILY USE OF ROADS AND STREETS (AND PARKING LOTS) WITHIN A MUNICIPALITY CAN GENERATE A BUILD-UP OF POLLUTANTS INCLUDING LITTER	
LLDF	AND SEDIMENT. REGULAR STREET SWEEPING CAN REDUCE THE AMOUNT OF POLLUTANTS AS WELL AS IMPROVE AESTHETICS OF STREETS. ONE OF SEVERAL MODES OF SWEEPING EQUIPMENT shall be used (E.G., MECHANICAL, REGENERATIVE AIR, OR VACUUM FILTER SWEEPERS) ON A PROGRAMMED BASIS TO REMOVE LARGER DEBRIS MATERIAL AND SMALLER PARTICULATE POLLUTANTS, PREVENTING THIS MATERIAL FROM	AND SHOULD INTEGRATE THE EXISTING LANDSCAPE AS SUBTLY AS POSSIBLE AND COMPACTION OF THE SOIL MUST BE PREVENTED INFILTRATION BASINS USE THE EXISTING SOIL MANTLE TO REDUCE THE VOLUME OF STORMWATER RUNOFF BY INFILTRATION AND EVAPOTRANSPIRATION. THE QUALITY OF THE RUNOFF IS ALSO IMPROVED BY THE NATURAL CLEANSING PROCESSES OF THE EXISTING SOIL
M-FIN4	CLOGGING THE STORMWATER MANAGEMENT SYSTEM AND WASHING INTO RECEIVING WATERWAYS/WATERBODIES. EQUIPMENT	MANTLE AND ALSO BY THE VEGETATION PLANTED IN THE BASINS.
PRELIN	MECHANICAL BROOM: USE OF MECHANICAL BROOMS/BRUSHES WITH CONVEYOR BELTS. DESIGNED TO REMOVE STANDARD ROAD DEBRIS, USING VARIOUS TYPES OF CIRCULATING BRUSHES THAT SWEEP MATERIAL ONTO CONVEYORS AND THEN INTO BINS. SOME MACHINES APPLY WATER TO REDUCE DUST. INCLUDES THE ELGIN PELICAN (3- WHEEL) AND EAGLE (4-WHEEL), ATHEY'S MOBILE (3- AND 4-WHEEL) AND SCHWARZE M-SERIES.	CONSTRUCTION SEQUENCE
/DMG/	STORMWATER REPORTS THAT THE VAST BULK OF SWEEPERS IN USE IN THE US ARE OF THIS TYPE.	1. PROTECT INFILTRATION BASIN AREA FROM COMPACTION PRIOR TO INSTALLATION. 2. IF POSSIBLE, INSTALL INFILTRATION BASIN DURING LATER PHASES OF SITE CONSTRUCTION TO PREVENT SEDIMENTATION AND/OR
tments	REGENERATIVE AIR: COMPRESSED AIR IS DIRECTED ONTO THE ROAD SURFACE, LOOSENING FINE PARTICLES THAT ARE THEN VACUUMED. INCLUDES ELGIN'S CROSSWIND J, MOBILE'S RA730 SERIES, SCHWARZE'S A-SERIES, TYMCO SWEEPERS.	DAMAGE FROM CONSTRUCTION ACTIVITY. AFTER INSTALLATION, PREVENT SEDIMENT LADEN WATER FROM ENTERING INLETS AND PIPES.
d Apar	VACUUM FILTER: VACUUM ASSISTED SMALL-MICRON PARTICLE SWEEPERS, EITHER WET OR DRY. DRY VACUUM INCLUDES MECHANICAL BROOM SWEEPING WITH A VACUUM (ELGION'S GEOVAC AND WHIRLWIND MODELS AND SCHWARZE'S EV-SERIES PARTICULATE MANAGEMENT); THIS	3. INSTALL AND MAINTAIN PROPER EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION. 4. IF NECESSARY, EXCAVATE INFILTRATION BASIN BOTTOM TO AN UNCOMPACTED SUBGRADE FREE FROM ROCKS AND DEBRIS. DO NOT
Revise	TECHNOLOGY WORKS WELL EVEN IN COLD WEATHER CONDITIONS. WET VACUUM USES WATER DUST SUPPRESSION WITH SCRUBBERS THAT APPLY WATER TO PAVEMENT; PARTICLES ARE SUSPENDED, AND THEN VACUUMED.	COMPACT SUBGRADE. 5. INSTALL OUTLET CONTROL STRUCTURES. 6. SEED AND STABILIZE TOPSOIL. (VEGETATE IF APPROPRIATE WITH NATIVE PLANTINGS.)
s Edge	MAINTENANCE ISSUES 1. TOWN'S EDGE DEVELOPMENT AND APARTMENT PARKING LOTS SHALL BE SWEPT AT LEAST TWO (2) TIMES PER YEAR AND AS NEEDED DUE TO	6. DO NOT REMOVE INLET PROTECTION OR OTHER EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS FULLY STABILIZED. O
Towns	THE ACCUMULATION OF SEDIMENT, ANTI-SKID, OR OTHER DEBRIS. TYPICALLY SWEEPING WILL TAKE PLACE ONCE IN THE SPRING AFTER THE LAST SNOW STORM AND ONCE IN LATE FALL.	MAINTENANCE ISSUES PROPERLY DESIGNED AND INSTALLED RETENTION AREAS REQUIRE SOME REGULAR MAINTENANCE:
.21.1 -	OPERATIONAL PROTOCOLS 1. CONDUCT SWEEPING DURING DRY WEATHER	MAINTENANCE ACTIVITIES TO BE DONE ANNUALLY AND WITHIN 48 HOURS AFTER EVERY MAJOR STORM EVENT (> 1 INCH RAINFALL DEPTH):
ss/CH2	<ol> <li>CONSIDER TRAFFIC VOLUMES WHEN SCHEDULING SWEEPING ACTIVITIES</li> <li>KEEP ACCURATE LOGS OF STREET SWEEPING ACTIVITIES</li> <li>PROPERLY DISPOSE OF COLLECTED SWEEPINGS IN A LEGAL MANNER.</li> </ol>	1. INSPECT AND CORRECT EROSION PROBLEMS, DAMAGE TO VEGETATION, AND SEDIMENT AND DEBRIS ACCUMULATION (ADDRESS WHEN > 3 INCHES AT ANY SPOT OR COVERING VEGETATION)
Charle	GENERAL PRACTICES	2. INSPECT VEGETATION ON SIDE SLOPES FOR EROSION AND FORMATION OF RILLS OR GULLIES, CORRECT AS NEEDED 3. MOW AND TRIM VEGETATION TO ENSURE SAFETY, AESTHETICS, PROPER RETENTION BASIN OPERATION, OR TO SUPPRESS WEEDS AND
- Mike	<ol> <li>MAINTAIN SWEEPERS OR CLEANING EQUIPMENT; REPAIR IF LEAKS ARE OBSERVED</li> <li>MAINTAIN A CONSISTENT SWEEPING SCHEDULE</li> <li>DO NOT STORE SWEEPINGS ADJACENT TO WATERWAYS OR STORM DRAINS</li> </ol>	INVASIVE VEGETATION; DISPOSE OF CUTTINGS IN A LOCAL COMPOSTING FACILITY; MOW ONLY WHEN RETENTION BASSIN IS DRY TO AVOID RUTTING
s	<ol> <li>DO NOT STORE SWEEPINGS ADJACENT TO WATERWAYS OR STORM DRAINS</li> <li>DO NOT "PUSH" SWEEPINGS TO STORM DRAINS OR INLETS</li> </ol>	4. INSPECT FOR LITTER; REMOVE PRIOR TO MOWING 5. INSPECT RETENTION BASIN INLET (CURB CUTS, PIPES, ETC.) AND OUTLET FOR SIGNS OF EROSION OR BLOCKAGE, CORRECT AS NEEDED
ect File		MAINTENANCE ACTIVITIES TO BE DONE AS NEEDED:
lic/Proj		I. RE-PLANT SPECIFIED GRASS SPECIES IN THE EVENT OF UNSUCCESSFUL ESTABLISHMENT. INSTALL NAG S75 MATTING IN AREAS WHERE INITIAL GRASS ESTABLISHMENT WAS NOT SUCCESSFUL.
du'/br		2. RESEED BARE AREAS; INSTALL APPROPRIATE EROSION CONTROL MEASURES WHEN NATIVE SOIL IS EXPOSED OR EROSION CHANNELS ARE FORMING.
Chrisla		3. ROTOTILL AND REPLANT RETENTION BASIN/BIORETENTION IF DRAW DOWN TIME IS MORE THAN 72 HOURS.
$\geq$		4. WATER DURING DRY PERIODS, FERTILIZE, AND APPLY PESTICIDE ONLY WHEN ABSOLUTELY NECESSARY.

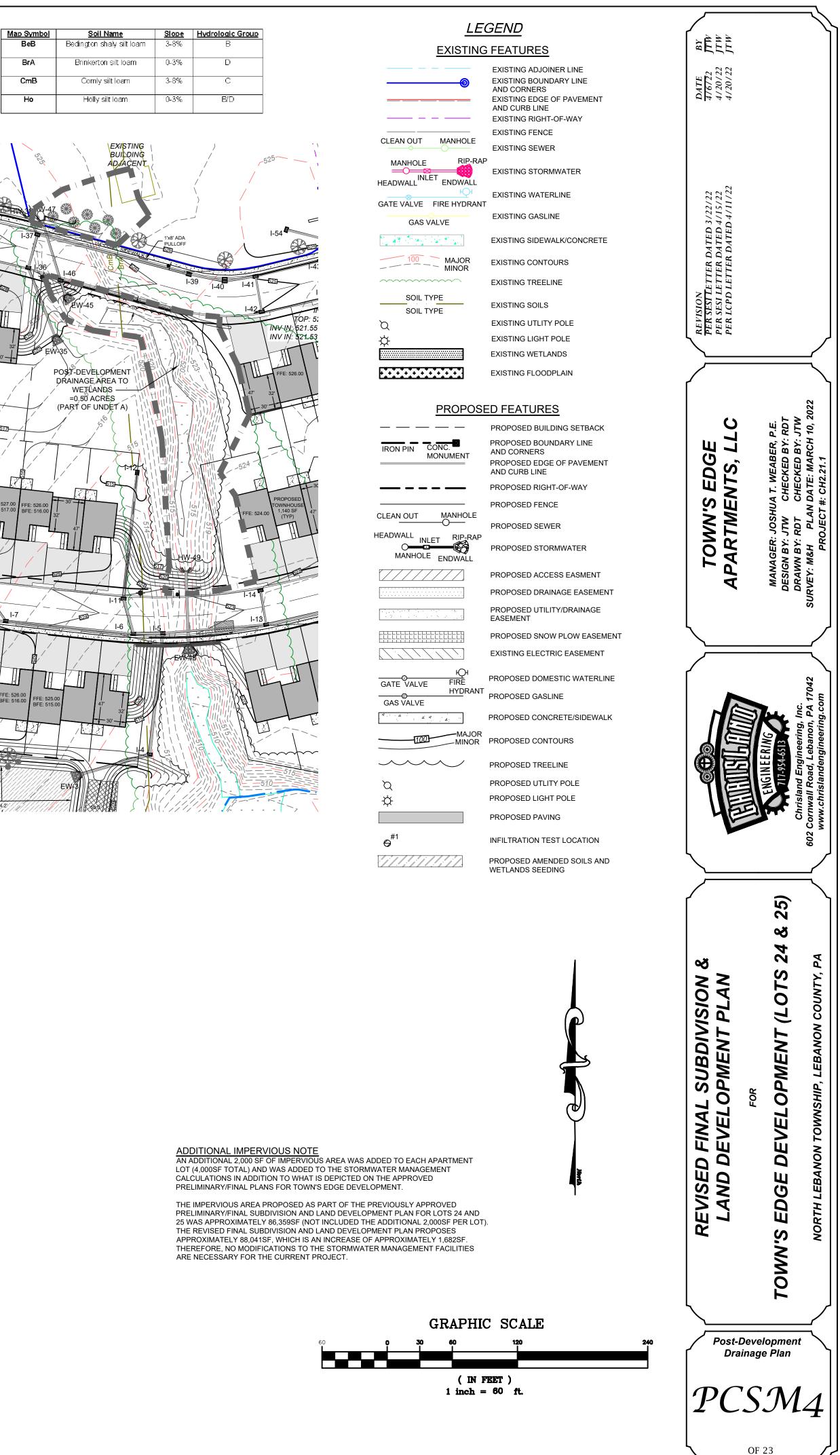


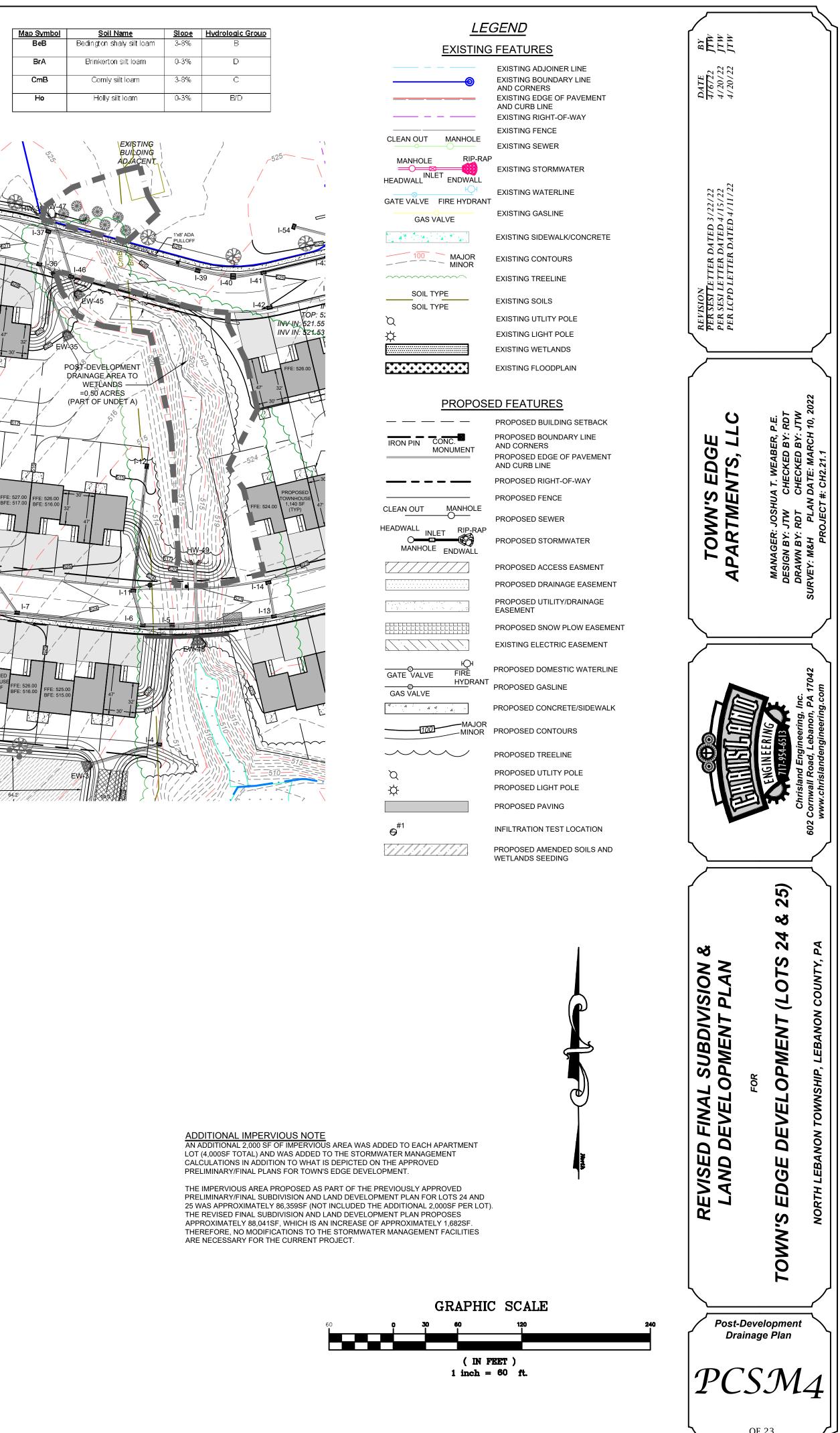


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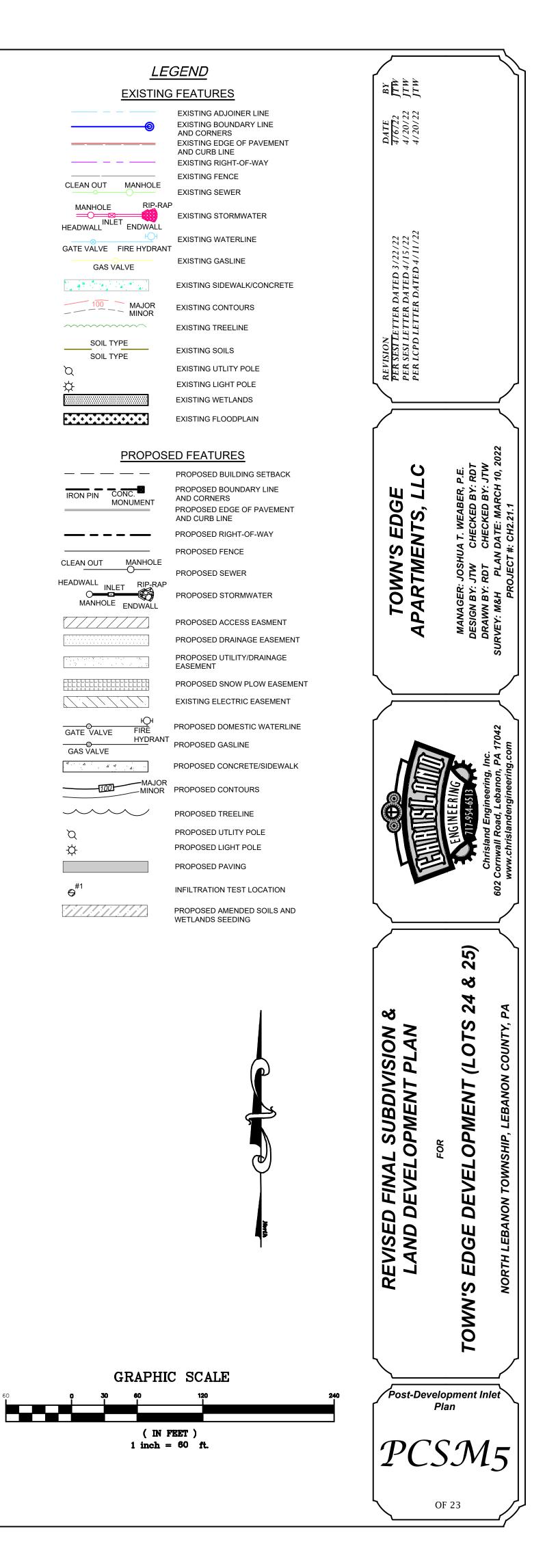


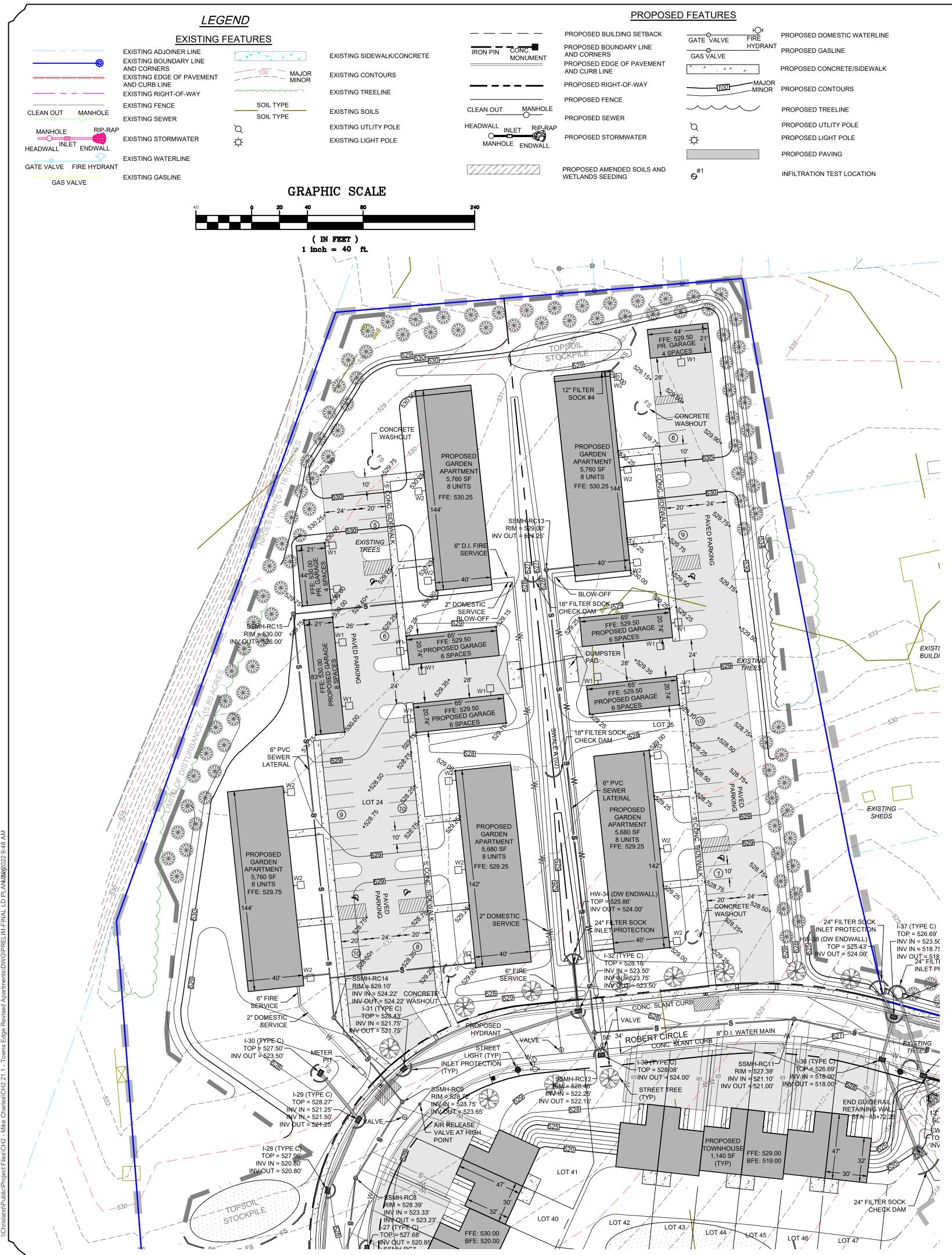




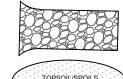


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TOPSOIL/SPOILS STOCKPILE FS FILTER SOCK

TOPSOIL STOCKPILE

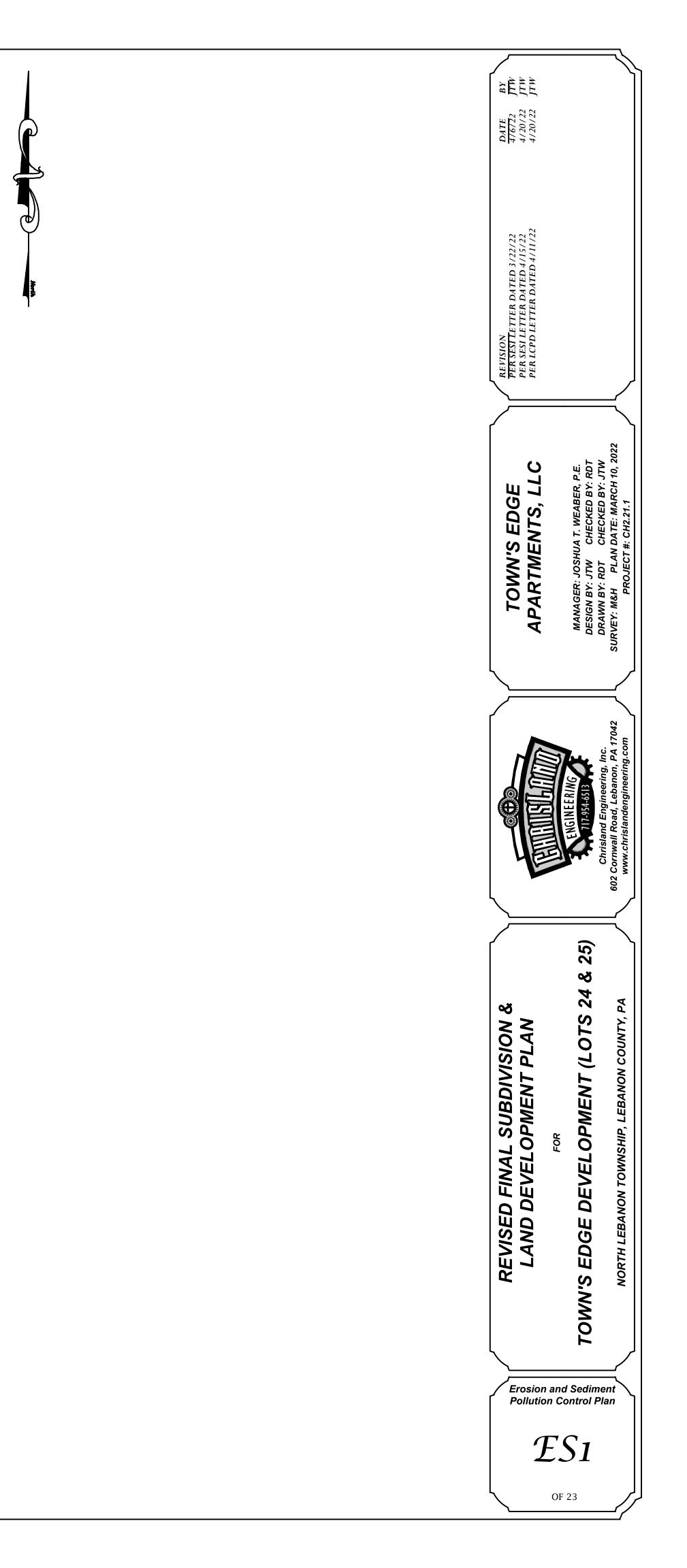
ROCK CONSTRUCTION ENTRANCE

SWALE/SLOPE MATTING INLET PROTECTION

DISTURBANCE LIMITS NPDES LIMITS

Map Symbol	<u>Soil Name</u>	Slope	Hydrold
BeB	Bedington shaly silt loam	3-8%	
BrA	Brinkerton silt loam	0-3%	

Map Symbol	<u>Soil Name</u>	Slope	Hydrologic Group
BeB	Bedington shaly silt loam	3-8%	В
BrA	Brinkerton silt loam	0-3%	D
CmB	Comly silt loam	3-8%	С
Ho	Holly silt loam	0-3%	B/D



,								G.TEMPORARY CONTROL MEASURES
EROSION AND SEDIMENT POLLUTION CONTROL NARRATIVE Town's Edge Development A.SITE LOCATION							 Topsoil Stockpile A stockpile shall be used to contain all stripped Stockpiles shall be stabilized immediately in acc Stockpiles shall be located so that all swales can 	
The site is loc	ated at 777 N. 8th Avenue, Leba	anon, PA 170	046 (See USG	SS Map).				d. Stockpile heights must not exceed 35' in height.2. Filter Sock
			e and garder	n apartment development	with driveways,	parking areas, access o	drives, sidewalks, and associated	a. Filter sock shall be used to intercept sediment-lab. Filter sock must be installed at level grade.c. Sediment must be removed when accumulationsd. All areas of concentrated flow and at all areas
The 19.6673ac construction o for agriculture toward the U	f a townhouse development with and research on the Penn Pilots	currently is driveways, s Website st	being used f parking areas nows this land	s, access drives, sidewalks, had been planted in agricu	, and associated ultural row crops	stormwater management since 1937. The site slop	e site will be residential with the facilities. This site has been used es south and continues southwest Quittapahilla Creek's Chapter 93	Measures, item 3.) 3. Rock Filter Outlets (Filter Sock Locations) a. A gravel berm shall be provided where show sedimentation or concentrated flows. b. Rock filters shall be constructed of AASHTO #6
IR 2014 Aqua Assessed Us Status: Impairment S	itic Life	ewers						 c. Rock filters will be removed when clogged with s 4. Interim Stabilization a. Temporary seeding and mulching shall be applied b. Temporary seeding/mulching shall be as applied c. Any disturbed area on which activity has cease at the recommended rates. Disturbed areas th
IR 2014 Aqua Assessed Us Status:								 seeding specification contained hereon. Disturped areas in seeding specifications contained hereon. 5. Rock Construction Entrance
Impairment C IR 2014 Recru Assessed Us Status:	cause: Flow Alterations							 a. A stabilized pad of crushed stone (AASHTO #1 eliminate the tracking of flowing of sediment ont b. Public street sweeping with a vacuum sweeper and c. Inspect area to be swept for materials that may be h d. Manual cleaning of tires with a broom shall be comp
Impairment C Non Attaining Assessed Us Attain Use:		- Dewatering	j; Stream Ban	k				 6. Sediment Basin with Perforated Riser a. A stabilized pad of crushed stone (AASHTO #1) sh tracking of flowing of sediment onto the existing cart b. All sediment basins shall be inspected on at least a solution of the context of the
Non Attaining Assessed Us Attain Use:	Modifications/Destabilization g Streams Assessments e: Recreational Impaired e: Source Unknown - Pathogens	- Habitat Alte						to its original dimensions. d. Basin embankments, spillways, and outlets shall be e. Prior to converting the sediment basin to a permar sediment basin. f. Prior to initiating operation of dewatering facility, all a g. Dewatering facility shall be continuously monitored of
TMDL Strean TMDL Name:	15							until the problem has been corrected.
Cause: D.SOIL LIMITA ⁻	Nutrients; Organic Enrichmer	nt; Siltation; ⊺	·					 Permanent Grass or Legume Cover All disturbed areas that are not paved shall be with the seeding specification shown on the atta
Map Symbol BeB BrA	ils are found within or adjacent to Map Name Bedington shaly silt loam Brinkerton silt loam	Acres 9.4 3.9	HGS B D	% of Disturbed Area 20.1 20.8	Depth 60"-80" 15"-34"	Hydric X		 b. Permanent grass cover shall be applied as species 2. Mulch a. Mulch shall be applied to all seeded areas to he
limited. This po	tential limitation should not be a						ified as somewhat limited to very , pavement, and grass cover over	 b. Mulch shall be applied at a rate of 3 tons per ac 3. Sod a. Sod shall be installed in areas where permanen b. Sod materials and installation shall meet the ap
newly graded top The soil is not li suitability of base	imited to very limited for dwellin	gs with base	ements. It is	not expected to be an issu	ue as pre-constru	uction probe tests were p	performed to observe the soils for	 c. All permanent and temporary spillways are to temporary spillways are to temporary spillways are to temporary. 4. Rip-Rap Outlet Protection
	Hazard limitation is classified a I with standard erosion and sedir			ard construction practices v	will be utilized to	avoid excessive rutting a	nd erosion associated with rutting	a. Rip-rap shall be used at all pipe outlets to reduc b. Rip-rap shall be installed in accordance with the
				accordance with the stand	ards established	in the Erosion and Sedin	nent Pollution Control Manual (PA	 I. MAINTENANCE The Applicant/or His Designee shall be responsib Until the site is stabilized, all erosion and sedime each runoff event and on a weekly basis. All pre-
reduced comp	ations were performed using the pared to pre-development conditi						ndition peak rates of runoff will be development conditions.	 a. Stockpiles must be stabilized immediately. 4. All sediment removed from sediment trapping de this process will be mulched and permanently sta
All earth distu	Irbance activities shall proceed Inty Conservation District or b						ence must be approved by the d before proceeding to the next	 5. Any permanently seeded area that becomes eror sod installed. 6. Filter sock must be installed at level grade. Sedim 7. Any sock section that has been undermined or to 8. Stockpile heights must not exceed 35 feet. Stock
and sediment responsible fo		n the plan a measures.	are incapable	of addressing the erosion			e potential for accelerated erosion lot, the owner/developer shall be	 9. Any disturbed area on which activity has ceased the recommended rates. Disturbed areas which a seeding specifications. Disturbed areas which a seeding specifications. 10.After final site stabilization has been achieved (d
1. At least 7 appropriate	days prior to starting any earth	disturbance	e activities (in	cluding clearing and grubb			ite all contractors, the landowner, ation District (717-277-5275) to an	sedimentation in all areas tributary to the controls stabilized immediately.
notified at	ast 3 days prior to starting any 1-800-242-1776 for the location o ilized construction entrance(s).	of existing ur	nderground ut	ilities.			nia One Call System Inc. shall be	If the site will need to have fill imported from an off cases reside with the Operator. If the site will have e due diligence rests on the applicant.
3. Stake out l	imits of existing wetlands within					Ũ	s as depicted on the plans and in	K.CLEAN FILL
	n 25-feet of earth disturbance. sock at topsoil stockpile and oth	er areas as	indicated on t	he attached plan. Filter soo	ck is to be installe	ed along the contour at a l	evel grade.	from construction and demolition activities that is se Commonwealth unless otherwise authorized.
co-permitte	e shall provide notification to the	e Departmen	t or authorize	d conservation district.			rbance activities, the permittee or taining wall and backfill. Continue	L. CLEAN FILL AFFECTED BY A SPILL OR RELEAS Fill materials affected by a spill or release of a reg regulated substances that are below the residential I
constructin	g retaining wall while avoiding ar	ny wetlands	disturbance a	nd impacts. Complete reta	iining walls and b	ackfilling and prepare cro		M. ENVIRONMENTAL DUE DILIGENCE
7. Rough grad bottom. Ex	de site for installation of roadway	ys and utilitie	es, and storm	vater management facility f	facilities. Take ca	are to avoid unnecessary	compaction of the infiltration basin nall be scarified to loosen the soils	Investigative techniques, including, but not limited to Sanborn maps, environmental questionnaires, transa N.POTENTIAL POLLUTANT CAUSING MATERIALS
8. Backfill and	bring site to necessary grade fo				-		as soon as practicable.	The site consists of Bedington, Brinkerton, Comly, entrances, filter socks, rock filters, and temporary an
Take care	nfiltration basin and install basin to avoid unnecessary compacti infiltration basin bottoms shall b	ion of the in	filtration area	bottoms. Excavation sha	Il take place from	n outside the limits of th	e infiltration basin. If compaction	O.MINIMIZE THE EXTEND AND DURATION OF EAR The construction sequence addresses the anticipa
10.Install storr	n sewer, sanitary sewer, water, a ing and pave roadway base cour	and other uti						minimize the duration and extend of disturbance at a P.E&S PLAN MINIMIZES SOIL COMPACTION
12.Construct t	ownhouses and townhouse drive	eways, conn		truct apartment buildings ar	nd pave parking l	ot.		The project will compact fill only as needed to pro equipment since the project is limited in size and co structures. Topsoil will be placed in accordance wit project with limited potential for unwarranted compac
14.Fine grade		on the gradi	ng plan, insta	ll swales, and install erosion	n matting as dep	cted on the plans. Sprea	ad 6-in of topsoil on freshly graded anent stabilization.	Q.E&S PLAN UTILIZES OTHER MEASURES OR CO A stormwater management system is proposed to re
	s, shrubs and landscaping areas. ny sediment from basin and insta		soils and basi	n seeding				pre-development conditions. R.ANALYSIS OF DOWNSTREAM CHANNEL
17.Install slop manufactu	e matting as indicated on the pl rer's rates and instructions.	lan. Seedbe	ed shall be pr	epared in accordance with			be applied in accordance with the	The site discharges on-site to the existing stream la currently stable. No adverse impacts are expected a storms and reduces the 2-year runoff volume to less The current drainage path is stable and expected to
19.Remove al capable of		nt controls c	once the site i	s completely stabilized (de	fined as a minim	um uniform 70% perennia	f hydroseeding). al vegetative cover, with a density ss shall be stabilized immediately	S. THERMAL IMPACTS ANALYSIS No thermal impacts are expected from this project. T cool prior to discharging. Furthermore, street trees a
Ū	0 0	ecycle or dis	pose of all bu	ilding materials and wastes	s in accordance w	ith the Department's Solid	d 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 on or off the site.

ntain all stripped topsoil in a limited area in order to keep disturbance to a minimum mediately in accordance with the temporary seeding specification contained hereon. that all swales can function as designed. ceed 35' in height. Side slopes shall be 2:1 or flatter.

cept sediment-laden runoff from small watersheds.

level grade. en accumulations reach 1/2 the above ground height of sock.

and at all areas where the filter sock has been undercut due to excessive flows, rock filters shall be installed (see Temporary Control

ided where shown on the plan and at all locations of concentrated flows or where failures in the silt fence occur due to excessive d of AASHTO #67 and R-4 stone in accordance with the specified dimensions on the detail.

nen clogged with sediment. The stone shall be washed free of all sediment or new stone shall be used to rebuild the filter.

ng shall be applied where indicated to provide interim stabilization to exposed areas. shall be as applied as specified on the Seeding Schedule contained on the E&SPC Plan. ictivity has ceased and which will remain exposed must be stabilized immediately. During non-germinating periods, mulch must be applied Disturbed areas that are not at finished grade and will be re-disturbed within 1 year may be stabilized in accordance with the temporary d hereon. Disturbed areas that are at finished grade or will not be re-disturbed within 1 year must be stabilized in accordance with the ons contained hereon.

one (AASHTO #1) shall be located where construction traffic will be entering and leaving the site. The rock construction entrance is used to a of sediment onto the existing cartway uum sweeper and rolling of dirt and gravel roads shall be completed at the end of each work day (or more frequently as needed). rials that may be hazardous prior to beginning sweeping operations.

oom shall be competed prior to site egress.

e (AASHTO #1) shall be located where construction traffic will be entering and leaving the site. The rock construction entrance is used to eliminate the to the existing cartway. ected on at least a weekly basis and after each runoff event. Access for sediment removal and other required maintenance activities shall be provided. near the center of each basin. Accumulated sediment shall be removed when it has reached the clean out elevation on the stake and the basin restored

nd outlets shall be checked for erosion, piping, and settlement. Necessary repairs shall be made immediately.

basin to a permanent basin, the sediment storage zone should be dewatered. Dewatering facility shall be installed immediately upon completion of atering facility, all accumulated sediment shall be cleaned from the inside of the barrel.

Jously monitored during operation. If for any reason the dewatering facility ceases to function properly, it shall immediately shut down and not restarted

paved shall be permanently stabilized with grass to minimize erosion. All swales shall be permanently seeded as required in accordance shown on the attached E&SPC Plan. applied as specified in accordance with the Seeding Schedule and Notes contained on the attached E&SPC Plan.

eded areas to help establish a permanent grass cover and to prevent erosion on all areas permanently stabilized with seed. e of 3 tons per acre. Mulch shall be anchored with wood cellulose fiber at 750 lbs/acre.

where permanent stabilization with seed alone is difficult. shall meet the approval of the Lebanon County Conservation District.

pillways are to be sodded to provide immediate erosion protection. Sod shall extend from the spillway to the top of the slope of the trap

e outlets to reduce the outflow velocity and minimize erosion potential at the outlet pipe. cordance with the dimensions and materials shown on the attached plan.

nall be responsible for maintaining all facilitates shown on this plan.

sion and sedimentation must be maintained properly. Maintenance must include inspections of all erosion and sedimentation control after ly basis. All preventative and remedial maintenance work, including clean-out, repair, replacement, regrading, reseeding, re-mulching, and ediatel

nediatelv. ment trapping devices shall be disposed within the site in a manner that will not cause erosion or sedimentation. All areas disturbed during

nat becomes eroded or disturbed shall have the topsoil replaced, the grass re-sown and mulch reapplied, or, at the discretion of the owner, evel grade. Sediment must be removed when accumulations reach $\frac{1}{2}$ the above ground height of the sock.

ndermined or topped must be immediately replaced with a rock filter outlet. See rock filter outlet detail.

ed 35 feet. Stockpile slopes must be 2:1 or flatter ivity has ceased and which will remain exposed must be stabilized immediately. During non-germinating periods, mulch must be applied at bed areas which are not at finished grade and which will be re-disturbed within one (1) year may be stabilized in accordance with temporary

een achieved (defined as a minimum uniform 70% perennial vegetative cover, with a density capable of resisting accelerated erosion and y to the controls), temporary erosion and sedimentation controls must be removed. Areas disturbed during removal of the controls must be

areas which are either at finished grade or will not be re-disturbed within one (1) year must be stabilized in accordance with permanent

ted from an off-site location, the responsibility for performing environmental due diligence and the determination of clean fill will in most e site will have excess fill that will need to be exported to an off-site location, the responsibility of clean fill determination and environmental

non-decomposable, inert, solid material. The term includes soil, rock, stone, dredged material, used asphalt, and brick, block, or concrete tivities 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 thorized

ILL OR RELEASE OF A REGULATED SUBSTANCE

release of a regulated substance still gualifies as a clean fill provided the testing reveals that the fill material contains concentrations of w the residential limits in Tables FP-1a and FP-1b found in the Department's policy "Management of Fill."

but not limited to, visual property inspections, electronic data base searches, review of property ownership, review of property use history, tionnaires, transaction screens, analytical testing, environmental assessments or audits.

nkerton, Comly, and Holly soils which have the potential to erode when disturbed. Standard erosion controls such as rock construction and temporary and final seeding will be utilized to minimize the potential for erosion.

RATION OF EARTH DISTURBANCE

sses the anticipated sequence of construction and provides provisions for interim stabilization and a periodic stabilization schedule to disturbance at any one time.

PACTION

needed to provide the necessary structural stability. It is not anticipated there will be any unnecessary compaction by construction ed in size and construction equipment will generally to concentrated in areas of proposed driveways immediately adjacent to the proposed n accordance with industry standards and will not be overly compacted. The topsoil placement and stabilization will be the last steps of the rranted compaction.

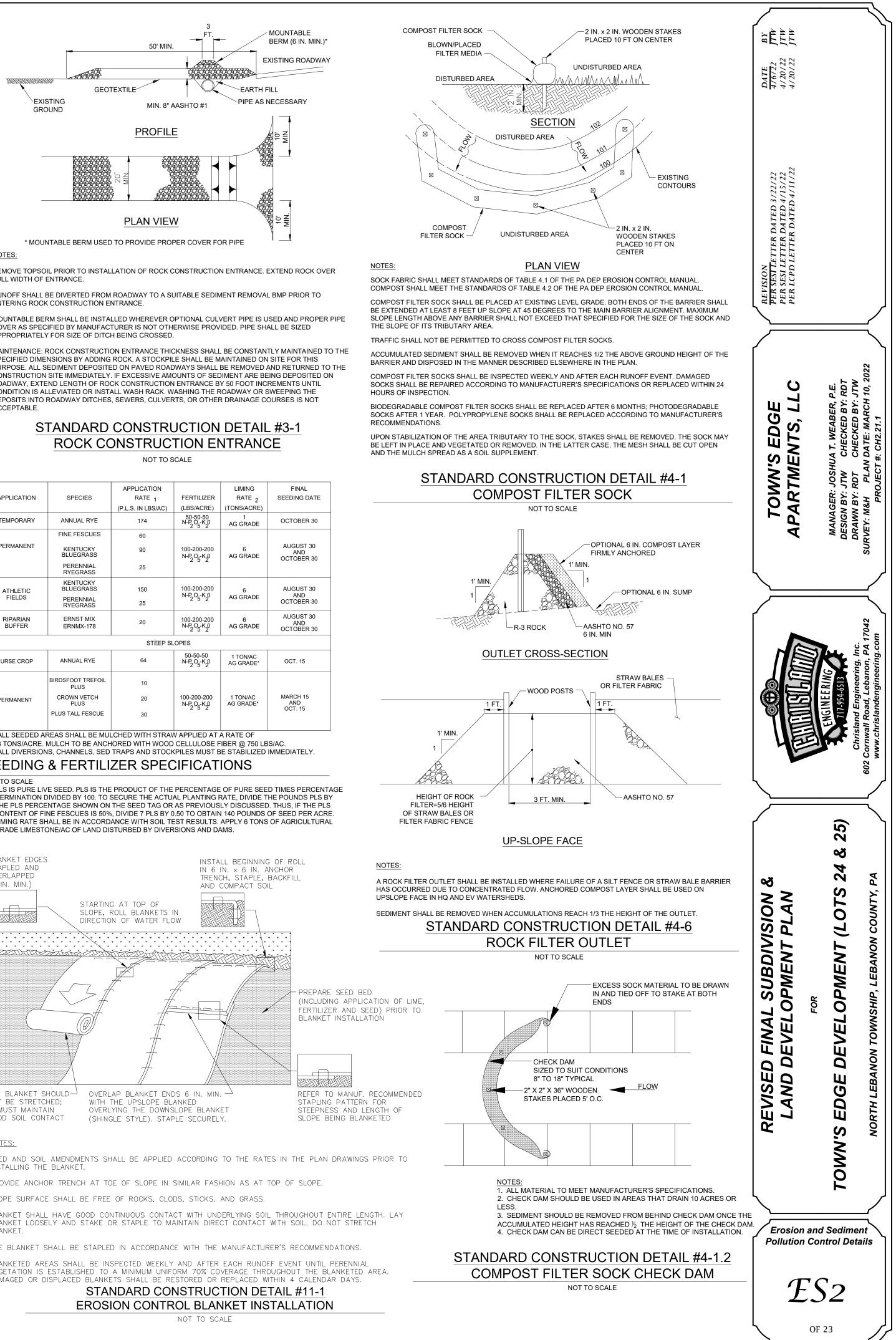
ASURES OR CONTROLS THAT PREVENT OF MINIMIZE GENERATION OF INCREASED STORMATER RUNOFF

s proposed to reduce peak rates of runoff and the volume of runoff. Disturbed areas will be restored to meadow/grass conditions similar to

ANNEI

xisting stream located in the southeastern portion of the site. The runoff follows existing drainage paths. The existing drainage path is ts are expected as part of this development. The proposed stormwater management system proposes to reduce the peak flow rates for all f volume to less than pre-development conditions. Therefore, the conveyance capacity of the downstream drainage path will be improved. and expected to continue to be so in post-development conditions.

om this project. The runoff is collected and conveyed to the infiltration basin via vegetated swales which will retain the runoff and allow it to nore, street trees and basin plantings are proposed to help shade and cool the runoff prior to discharge.



	APPLICATION	SPECIES	APPLICATION RATE 1	FERTILIZER	LIMING RATE 2	
	AFFEIGATION	GFEGIES	(P.L.S. IN LBS/AC)	(LBS/ACRE)	(TONS/ACRE)	
	TEMPORARY	ANNUAL RYE	174	50-50-50 N-P O -K 0 2 5 2	1 AG GRADE	
	PERMANENT	FINE FESCUES	60			
		KENTUCKY BLUEGRASS	90	100-200-200 N-P_OK_0 2_5-K_2	6 AG GRADE	
		PERENNIAL RYEGRASS	25	2 3 2		
	ATHLETIC FIELDS	KENTUCKY BLUEGRASS	150	100-200-200 N-P_OK_0 2_5_2	6 AG GRADE	
		PERENNIAL RYEGRASS	25			
	RIPARIAN BUFFER	ERNST MIX ERNMX-178	20	100-200-200 N-P_OK_0 2_5_2	6 AG GRADE	
	STEEP SLOPES					
	NURSE CROP	ANNUAL RYE	64	50-50-50 N-P ₂ O ₅ -K ₂ 0	1 TON/AC AG GRADE*	
		BIRDSFOOT TREFOIL PLUS	10			
	PERMANENT	CROWN VETCH PLUS	20	100-200-200 N-P ₂ O ₅ -K ₂ 0	1 TON/AC AG GRADE*	
		PLUS TALL FESCUE	30	2 5 2		

- ALL SEEDED AREAS SHALL BE MULCHED WITH STRAW APPLIED AT A RATE OF

GRADE LIMESTONE/AC OF LAND DISTURBED BY DIVERSIONS AND DAMS.

