CERTIFICATE OF ACCURACY - SURVEY

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE SURVEY SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY THE NORTH LEBANON TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.

PRINT PROFESSIONAL LICENSED SURVEYOR'S NAME AND

CERTIFICATE OF ACCURACY - PLAN

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THE PLAN SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY THE NORTH LEBANON TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.

NUMBER BELOW SIGNATURE LINE.

STORMWATER MANAGEMENT PLAN CERTIFICATION

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE STORMWATER MANAGEMENT FACILITIES SHOWN AND DESCRIBED HEREON ARE DESIGNED IN CONFORMANCE WITH THE NORTH LEBANON TOWNSHIP STORMWATER MANAGEMENT

CERTIFICATION OF CARBONATE GEOLOGY

, CERTIFY THAT THE PROPOSED STORM WATER MANAGEMENT BASIN(S) IS/IS NOT UNDERLAIN BY CARBONATE GEOLOGY.

GEOLOGIST'S SIGNATURE CERTIFICATE OF OWNERSHIP, ACKNOWLEDGMENT OF PLAN,

AND OFFER OF DEDICATION

<u>CORPORATE</u> COMMONWEALTH OF PENNSYLVANIA

MY COMMISSION EXPIRES _____

EXECUTIVE DIRECTOR

RECORDER OF DEEDS

COUNTY OF LEBANON ON THIS, THE ___ DAY OF ______, 20 ____, BEFORE ME, THE UNDERSIGNED

OFFICERS, PERSONALLY APPEARED

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

OF SHEETZ, INC. WHO BEING DULY SWORN ACCORDING TO LAW, DEPOSES AND SAYS THAT THE CORPORATION IS THE _____ OF THE PROPERTY SHOWN ON THIS PLAN, THAT HE IS AUTHORIZED TO EXECUTE SAID PLAN ON BEHALF OF THE CORPORATION, THAT THE PLAN IS THE ACT AND DEED OF THE CORPORATION, THAT THE CORPORATION DESIRES THE SAME TO BE RECORDED AND ON BEHALF OF THE CORPORATION FURTHER ACKNOWLEDGES, THAT ALL STREETS AND OTHER PROPERTY IDENTIFIED AS

PROPOSED PUBLIC PROPERTY ARE HEREBY DEDICATED TO THE PUBLIC USE -

OWNER SIGNATURE

CERTIFICATE FOR REVIEW BY THE NORTH LEBANON TOWNSHIP

PLANNING COMMISSION

AT A MEETING HELD ON COMMISSION OF NORTH LEBANON TOWNSHIP, LEBANON COUNTY, PENNSYLVANIA REVIEWED THIS PLAN, AND A COPY OF THE REVIEW COMMENTS IS ON FILE IN THE TOWNSHIP OFFICE.

CERTIFICATE FOR REVIEW BY THE MUNICIPAL ENGINEER

REVIEWED BY THE NORTH LEBANON TOWNSHIP ENGINEER THIS ____ DAY OF _____, 20___.

LEBANON COUNTY PLANNING DEPARTMENT REVIEW CERTIFICATE

THE LEBANON COUNTY PLANNING DEPARTMENT, AS REQUIRED BY THE PENNSYLVANIA MUNICIPALITIES PLANNING CODE, ACT 247 OF 1968, AS AMENDED, REVIEWED THIS __, 20____, AND A COPY OF THE REVIEW IS ON FILE AT THE OFFICE OF THE PLANNING DEPARTMENT. THIS CERTIFICATE DOES NOT INDICATE APPROVAL OR DISAPPROVAL OF THE PLAN BY THE LEBANON COUNTY PLANNING DEPARTMENT, AND THE DEPARTMENT DOES NOT REPRESENT NOR GUARANTEE THAT THIS PLAN COMPLIES WITH THE VARIOUS ORDINANCES, RULES, REGULATIONS, OR LAWS OF THE LOCAL MUNICIPALITY, THE COMMONWEALTH, OR THE FEDERAL GOVERNMENT.

RECORDER OF DEEDS CERTIFICATE

RECORDED IN THE OFFICE FOR RECORDING OF DEEDS, IN AND FOR LEBANON COUNTY, PENNSYLVANIA, IN SUBDIVISION PLAN BOOK _ PAGE WITNESS MY SEAL OF OFFICE THIS DAY OF

SITE / ZONING DATA

TOTAL SITE ACREAGE 12.166 ACRES (GROSS) 4.93 AC. / 214,539 SF (NET) - PROPOSED LOT 1 6.80 AC. / 296,343 SF (NET) - PROPOSED LOT 2

EXISTING LAND USE:

ZONING:

LOT AREA:

REAR YARD:

SIDE YARD:

BUILDING HEIGHT:

IMPERVIOUS COVERAGE:

PARKING (FOR PROPOSED LOT 1):

PROPOSED LAND USE: RETAIL ESTABLISHMENT WITH ACCESSORY FUEL PUMPS AND EATING PLACE (PROPOSED LOT 1) EXISTING BANK (PROPOSED LOT 2)

AGRICULTURE USE AND BANK

PUBLIC - NORTH LEBANON TOWNSHIP MUNICIPAL AUTHORITY WATER: PUBLIC - CITY OF LEBANON AUTHORITY

GENERAL COMMERCIAL DISTRICTS - A (C-2A)

200 FT. MIN. 60 FT. MIN. FRONT YARD: 30 FT. MIN. TOTAL: 60 FT. MIN.

> 35 FT. MAX. 2 1/2 STORIES MAX.

ONE SIDE: 30 FT. MIN

- RETAIL STORES/SERVICE ESTABLISHMENTS: ONE PARKING SPACE PER 200 SF OF GROUND FLOOR

60 FT.

30 FT.

TOTAL: 60 FT.

ONE SIDE: 30 FT

677 FT.

60 FT.

30 FT.

TOTAL: 60 FT.

ONE SIDE: 30 FT.

PROPOSED LOT 2

(12 FUEL PUMP SPACES)

EXISTING STRUCTURE TO REMAIN

TOTAL SPACES PROVIDED = ±58 SPACES

(3.264-425) SF / 200 = 15 SPACES) GAS STATION: ONE SPACE PER EMPLOYEE AND ONE SPACE PER 200 SF OF FLOOR AREA (4,625 SF / 200 + 7 EMPLOYEES = 31 SPACES)RESTAURANT/FAST FOOD: ONE SPACE PER 50 FEET OF FLOOR AREA OR ONE SPACE PER FOUR SEATS (USE GREATER NUMBER) (46 SEATS / 4 = 12 SPACES)

TOTAL SPACES REQUIRED = \pm 58 SPACES

REQUESTED MODIFICATIONS AND DEFERMENTS

THE FOLLOWING MODIFICATIONS AND DEFERMENT OF THE NORTH LEBANON TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE ARE REQUESTED

1. SECTION 502.11.A - CURBING ALONG EXISTING STREETS ACTION:_ CONDITIONS

2. SECTION 502.11.B - CURBING SPECIFICATIONS

3. SECTION 502.12.A.5 - SIDEWALK DEFERMENT

4. SECTION 503.2.I.2.D - ACCESS DRIVE CENTERLINE RADIUS ACTION:_____ DATE: ____

5. SECTION 505.D - MINIMUM RADIUS OF CURVATURE IN PARKING LOTS

THE FOLLOWING MODIFICATIONS OF THE NORTH LEBANON TOWNSHIP STREETS AND SIDEWALK ORDINANCE ARE REQUESTED:

1. SECTION 21-517.C.2 - VERTICAL CURBING WIDTH

2. SECTION 21-517.C.3 - VERTICAL CURBING HEIGHT CONDITIONS:

THE FOLLOWING MODIFICATIONS OF THE NORTH LEBANON TOWNSHIP STORMWATER MANAGEMENT ORDINANCE ARE REQUESTED: 1. SECTION 309.B.5 - PIPE COVER WITHIN PAVED AREAS

A: SECTION 308.D - BASIN SIDE SLOPE FENCING ACTION: CONDITIONS

REQUESTED VARIANCES

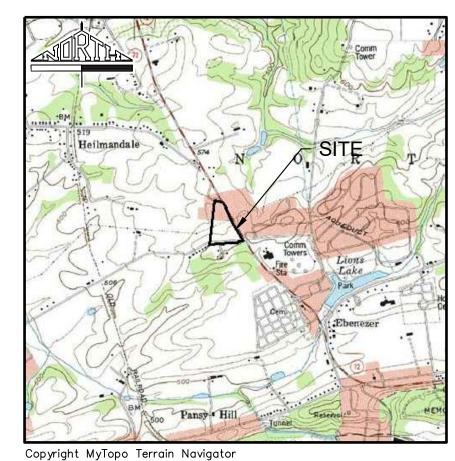
VARIANCE - SECTION 27-1407 ACCESS DRIVE WIDTH - CURB CUT WIDTH REQUESTED: SEPTEMBER 24, 2024

VARIANCE - SECTION 27-1304.1.B.3 SCREEN PLANTINGS DIRECTLY AROUND AND ALONG THE BUILDING REQUESTED: SEPTEMBER 24, 2024

SUPERVISORS FINAL PLAN APPROVAL CERTIFICATE

NORTH LEBANON TOWNSHIP BOARD OF

AT A MEETING HELD ON ___ SUPERVISORS OF NORTH LEBANON TOWNSHIP, LEBANON COUNTY, PENNSYLVANIA APPROVED THE FINAL (1) PLAN FOR THE PROPERTY AS SHOWN HEREON. NO OTHER PLAN OR PLANS SHALL BE RECOGNIZED. APPROVAL INCLUDES ALL DOCUMENTATION, INCLUDING THE COMMENTS OR REQUIREMENTS OF OFFICIAL REVIEWING INDIVIDUALS OR AGENCIES. APPROVAL IS BASED ON COMPLIANCE WITH APPLICABLE ORDINANCES, RULES, AND REGULATIONS, AND SHALL NOT 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. ADDITIONALLY, THAT BY REVIEW AND/OR APPROVAL OF THE PLAN, THE TOWNSHIP EXPRESSLY DECLINES THE ASSUMPTION OF LIABILITY ERRORS, OMISSIONS, OR MISTAKES IN JUDGEMENT IN THE DESIGN, ENGINEERING CONSTRUCTION, OR EXPECTED FUNCTION OF THE MATTERS REVIEWED AND/OR



LOCATION MAP

JONESTOWN BANK AND TRUST COMPANY OF JONESTOWN, PENNSYLVANIA 2 W. MARKET STREET JONESTOWN, PA 17038

OWNER OF RECORD

SOURCE OF TITLE

LEBANON COUNTY, PA TAX MAP NO.: 27-2326623-377860-0000 DEED REF: 00169-0249 1725 STATE ROUTE 72 NORTH

LIGHTING PLAN RED LEONARD ASSOCIATES, INC.

LAND DEVELOPMENT PLAN

LD-1 COVER SHEET GENERAL NOTES

EXISTING CONDITONS-DEMOLITION PLAN LD-3 LD-4 SUBDIVISION & OVERALL SITE PLAN

DRAWING INDEX

LD-5 LAYOUT PLAN LD-6 EASEMENT PLAN LD-7 GRADING PLAN

UTILITY PLAN LD-9 LANDSCAPE NOTES

LD-10 LANDSCAPE PLAN LD-11 STREET & SEWER PROFILES LD-12 SITE DETAILS

LD-13 SHEETZ DETAILS LD-14 SHEETZ DETAILS LD-15 SHEETZ DETAILS LD-16 SEWER DETAILS

LD-17 WATER DETAILS LD-18 MATERIAL SPECIFICATIONS

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

SW-19 COVER SHEET

SW-20 GENERAL NOTES SW-21 OVERALL PCSM EXISTING SW-22 EXISTING CONDITIONS PLAN

SW-25 PCSM GRADING PLAN

SW-23 BMP LOCATION MAP SW-24 OVERALL PCSM GRADING

SW-26 STORM PROFILES SW-27 STORM DETAILS SW-28 BMP-001 PROFILES

SW-29 BMP-002 PROFILES SW-30 BMP-003 PROFILES

SW-31 OPERATION AND MAINTENANCE NOTES SW-32 MATERIAL SPECIFICATIONS

SW-33 PRE-DEVELOPMENT DRAINAGE AREA MAP SW-34 POST-DEVELOPMENT DRAINAGE AREA MAP

SW-35 POST-DEVELOPMENT SUB-DRAINAGE AREA MAP SW-36 OFFSITE DISCHARGE MAP

ALL SHEETS OF THE SUBDIVISION AND LAND DEVELOPMENT PLAN AND THE ENTIRE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN SHALL BE RECORDED

EROSION AND SEDIMENT CONTROL PLAN RGS ASSOCIATES

SHEETS ES-1-ES-7 OF ES-7

EXISTING FEATURES PROPOSED FEATURES GRADE CONTOUR — 454———— GRADE CONTOUR GRADE INDEX CONTOUR GRADE INDEX CONTOUR SPOT ELEVATION SPOT ELEVATION X 496.70 **BENCHMARK** X BC 496.70 IRON PIN X TC 496.70 MONUMENT X BW 496.70 BOUNDARY LINE X HP 496.70 X LP 496.70 ------ CENTERLINE BOUNDARY LINE

---- --- SETBACK LINE

TEST PIT LOCATION

OVERHEAD ELECTRIC

UTILITY POLE

OVERHEAD LIGHT FIXTURE

GRAVITY SEWER LINE & MANHOLE

- SEWER FORCE MAIN LINE & MANHOLE

SOILS

ELECTRIC

WATER MAIN, VALVE & HYDRANT

— · · · — · · · — · · · — · · · — STREAM

TREELINE

_____ OE _____ OE ____

GEOLOGIC INFORMATION GEOLOGY STUDY PROVIDED BY: ECS MID-ATLANTIC LLC

52-6 GRUMBACHER ROAD YORK, PA 17406 (717)-767-4788 DATE: 11-04-2024 JOB NO.: 18:6371

TRAFFIC INFORMATION

TRAFFIC STUDY PROVIDED BY: 4000 CRUMS MILL ROAD, SUITE 102 HARRISBURG, PA 17112 (717)-2341430

EQUITABLE OWNER

SHEETZ, INC. 5700 SIXTH AVE

ALTOONA, PA 16602

SURVEY INFORMATION

BOUNDARY AND TOPOGRAPHY PROVIDED BY:

TRIMBLE SURVEYORS, LLC

LITITZ, PA 17543

(717)-626-0028

DATE: 06/05/2024

WETLANDS INFORMATION

WETLANDS DELINEATION PROVIDED BY:

VORTEX ENVIRONMENTAL, INC.

2819-I WILLOW STREET PIKE NORTH

WILLOW STREET, PA 17584

(717)-509-3934

DATE: 07/13/2024

250 SOUTH SPRUCE ST

UNDERGROUND UTILITY LINE PROTECTION ACT

BY PA ACT 287 OF 1974, AS AMENDED, RGS ASSOCIATES, INC. HAS PERFORMED THE FOLLOWING REQUIREMENTS IN PREPARING THESE DRAWINGS THAT INCLUDE EXCAVATION OR DEMOLITION WORK AT SITES WITHIN THE POLITICAL SUBDIVISION AND/OR LAND

1. PURSUANT TO 73 P.S. 176(2), RGS ASSOCIATES, INC. HAS REQUESTED LINE AND MORE THAN NINETY (90) BUSINESS DAYS BEFORE FINAL DESIGN IS TO BE BEFORE FINAL DESIGN IS TO BE COMPLETED, RGS HAS STATED IN THE REQUEST THAT

 PURSUANT TO 73 P.S. 176(3), RGS ASSOCIATES, INC. HAS SHOWN, UPON THESE DRAWINGS, THE POSITION AND TYPE OF EACH FACILITY OWNER'S LINE, AS DERIVED PURSUANT TO THE REQUEST MADE AS REQUIRED BY 73 P.S. 176(2), THE NAME OF THE FACILITY OWNER AND THE FACILITY OWNER'S DESIGNATED OFFICE ADDRESS AND

4. IF, PURSUANT TO THE REQUIREMENTS OF 73 P.S. 176(2), RGS ASSOCIATES, INC. HAS

THAN NINETY (90) DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED, RGS HAS

3. PURSUANT TO 73 P.S. 176(5), RGS ASSOCIATES, INC. HAS CALLED THE ONE CALL SYSTEM AND SHOWN AS PROOF, THE SERIAL NUMBER OF ONE CALL NOTICE AND THE TOLL-FREE NUMBER OF THE ONE CALL SYSTEM ON THE DRAWINGS NEAR THE SERIAL

INDICATED THAT THE REQUEST IS PRELIMINARY AND THE SERIAL NUMBER OF SAID REQUEST IS SHOWN ON THE DRAWINGS HEREIN. RGS ASSOCIATES, INC. DOES NOT REPRESENT, WARRANT, ASSURE OR GUARANTEE THAT THE INFORMATION RECEIVED PURSUANT TO THE ONE CALL SYSTEM REQUEST AND AS REFLECTED ON THESE DRAWINGS IS ACCURATE OR CORRECT. FURTHERMORE, RGS ASSOCIATES, INC. INCLUDES THE INFORMATION ONLY PURSUANT TO THE REQUIREMENTS

PENNSYLVANIA ONE CALL SYSTEM SERIAL NO. (FINAL): PENNSYLVANIA ONE CALL SYSTEM SERIAL NO. (PRELIMINARY): ____ DATE: _____ BY: ____ PENNSYLVANIA ONE CALL SYSTEM SERIAL NO. (SURVEY): 20241380221

DATE: 2024/05/17 BY: JAB

OF THE UNDERGROUND UTILITY LINE PROTECTION ACT, AS AMENDED

1-800-242-1776

CALL BEFORE YOU DIG! PENNSYLVANIA LAW REOUIRES CONSTRUCTION PHASE AND (10) WORKING DAYS IN DESIGN STAGE - STOP CALL

SITE FEATURE LEGEND SPOT ELEVATION- BOTTOM OF CURB SPOT ELEVATION- TOP OF CURB SPOT ELEVATION- BOTTOM OF WALL SPOT ELEVATION- TOP OF WALL SPOT ELEVATION- HIGH POINT SPOT ELEVATION- LOW POINT ----- ---- EASEMENT LINE RIGHT-OF-WAY LINE ZONING BOUNDARY ——— — CENTERLINE ---- BUILDING ······ CLEAR SIGHT TRIANGLE ---- EDGE OF PAVEMENT —— — — — SAFE SIGHT STOPPING DISTANCE ---- FASEMENT LINE ---- EDGE OF GRAVEL/DRIVEWAY ZONING ____ __ __ SIDEWALK

DOOR LOCATION EDGE OF PAVEMENT 古 古 古 古 古 古 古 古 古 古 古 GUIDERAIL

O—O—O—O—O—O CHAINLINK FENCE

BLOCK WALL UNDERGROUND ELECTRIC OVERHEAD LIGHT FIXTURE UTILITY POLE GRAVITY SEWER LINE & MANHOLE

FM SEWER FORCE MAIN s---s SEWER LATERAL STORM DRAIN PIPE, ENDWALL MANHOLE, & INLET — — — — — — — — — STORMWATER INFILTRATION

— — — — ROOF DRAIN ----- UNDERDRAIN —⊗ **∮**◀ WATER LINE, VALVE, & HYDRANT

PROJECT NO : 2024A84-0 CHRIS VENARCHIC MANAGER: SHEET NO. LD-1 of 38

- BENCHMARK #1 IS LOCATED: MAG NAIL ON THE NORTH SIDE OF LONG LANE, 15'± WEST OF A MAILBOX. ELEV. 596.77' (SEE SHEET LD-3 FOR LOCATION). DATUM IS NAVD 1988

 2. BENCHMARK #2 IS LOCATED: MAG NAIL AT CURB DEPRESSION, 31'± NORTHWEST OF MET ED POLE
- 35865-37728. ELEV. 590.67' (SEE SHEET LD-3 FOR LOCATION). DATUM IS NAVD 1988

 3. BENCHMARK #3 IS LOCATED: REBAR ALONG THE WEST PROPERTY LINE JUST SOUTH OF THE FIRSTENERGY (FORMERLY METED) RIGHT-OF-WAY LINE. ELEV. 578.97' (SEE SHEET LD-3 FOR LOCATION). DATUM IS NAVD 1988
- 2. BOUNDARY AND TOPOGRAPHICAL INFORMATION PROVIDED BY TRIMBLE SURVEYORS, LLC PROJECT NAME: 1725 STATE ROUTE 72 NORTH, PROJECT NO.: 24205, DATED: 06/05/24.
- THIS PROPERTY WAS SURVEYED USING THE CURRENT DEED OR DEEDS OF RECORDS AND WITH THE BENEFIT OF A "TITLE SEARCH." THE TITLE SEARCH WAS ISSUED BY FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT NO.: NCS-1215382-PITT, COMMITMENT DATE: APRIL 08, 2024.
 BASIS OF BEARINGS TAKEN FROM A REALIZATION OF THE PENNSYLVANIA STATE PLANE
- COORDINATE SYSTEM SOUTH ZONE NAD 83.

 5. PERMANENT MONUMENTS AND LOT MARKERS SHALL BE SET UPON COMPLETION OF FINAL GRADING AT THE LOCATIONS TO BE SHOWN ON THE FINAL PLAN
- GRADING AT THE LOCATIONS TO BE SHOWN ON THE FINAL PLAN.

 6. ANY ALTERATIONS TO THIS PLAN AFTER THE DATE OF PLAN PREPARATION OR LATEST REVISION SHALL NOT BE THE RESPONSIBILITY OF RGS ASSOCIATES, INC.

CONTRACTOR NOTES

DIRECTED BY THE OWNER'S REPRESENTATIVE

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS FROM THE MUNICIPALITY RELATIVE TO THE CONSTRUCTION PROPOSED ON THIS PLAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF DAMAGED OR DESTROYED EXISTING VEGETATION AND/OR OTHER SITE FEATURES WHICH ARE TO REMAIN.
 PLAN LOCATION AND DIMENSIONS SHALL BE STRICTLY ADHERED TO UNLESS OTHERWISE
- 4. PRIOR TO BUILDING STAKEOUT, CONTRACTOR SHALL VERIFY DIMENSIONS SET FORTH ON LATEST ARCHITECTURAL PLANS. THE CONTRACTOR SHALL REVIEW ALL DOOR LOCATIONS AND POINTS-OF-ACCESS TO BUILDINGS SHOWN ON THIS PLAN AND CONFIRM THAT THE DOOR LOCATIONS MATCH THE FINAL ARCHITECTURAL DRAWINGS PRIOR TO THE INSTALLATION OF CURB, SIDEWALK AND HANDICAP RAMPS. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THE SITE PLAN AND ARCHITECTURAL DRAWINGS, RGS ASSOCIATES SHALL BE CONTACTED IMMEDIATELY.
- 5. ALL HANDICAP-ACCESSIBLE RAMPS, SIDEWALKS, AND PARKING SPACES MUST MEET ALL APPLICABLE ADA REQUIREMENTS. THE CONTRACTOR SHALL VERIFY ADA COMPLIANCE PRIOR TO PLACEMENT OF PAVING OR CONCRETE.
- 6. ALL CONSTRUCTION TO CONFORM TO THE MUNICIPAL AND PENNDOT STANDARDS AND SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE OF APPLICABLE STANDARDS AND SPECIFICATIONS AS WELL AS THE REQUIRED METHODS OF CONSTRUCTION. ALL DEVIATIONS FROM THE PLANS MUST BE APPROVED PRIOR TO CONSTRUCTION.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL, TRENCH BARRICADING, COVERING, SHEETING AND SHORING, IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. MAINTENANCE AND PROTECTION OF TRAFFIC ON EXISTING ROADS NEIGHBORING THE PROJECT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL MEP PLANS AND PROCEDURES SHALL BE IN ACCORDANCE WITH MUNICIPAL AND/OR PENNDOT STANDARDS.
- 8. THE CONTRACTOR SHALL CHECK AND VERIFY ALL EXISTING SITE CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO RGS ASSOCIATES, INC. PRIOR TO CONSTRUCTION.

 9. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING
- UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES, ROADS, DRIVEWAYS, AND STRUCTURES SHOWN ARE FROM THE BEST AVAILABLE RECORDS, AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS SATISFACTION PRIOR TO CONSTRUCTION.
- 10. DIMENSIONS AND GEOMETRY SHOWN ON THIS PLAN SHALL BE VERIFIED DURING STAKE-OUT CALCULATIONS AND FIELD STAKE-OUT.

 11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE DRAINAGE PATTERN AS SHOWN ON
- THESE PLANS, AND FOR MAINTAINING POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND ALSO A MINIMUM SLOPE ON ALL UNPAVED AREAS.

 12. CONTRACTOR SHALL SEQUENCE THE RELOCATION OF TELECOMM/ELECTRIC SERVICES TO
- 12. CONTRACTOR SHALL SEQUENCE THE RELOCATION OF TELECOMM/ELECTRIC SERVICES TO MINIMIZE SERVICE INTERRUPTIONS TO EXISTING BUILDINGS. THE CONTRACTOR SHALL NOTIFY ALL POTENTIALLY IMPACTED PROPERTIES PRIOR TO CONSTRUCTION.
- 13. CROSSWALKS SHALL BE APPLIED ONTO THE FINAL WEARING COURSE AND SHALL BE PAINTED WITH TYPE I WHITE PAINT CONFORMING TO SECTION 962 OF PENNDOT PUBLICATION 408.
- 14. THE CONTRACTOR SHALL REFER TO PENNDOT PUBLICATION 111 FOR PAVEMENT MARKINGS AND SIGNAGE STANDARDS, UNLESS OTHERWISE REQUIRED BY THE MUNICIPALITY.
- SIGNAGE STANDARDS, UNLESS OTHERWISE REQUIRED BY THE MUNICIPALITY.

 15. ANY PROPOSED SIGNS SHALL CONFORM TO THE REQUIREMENTS OF THE NORTH LEBANON

 TOWNSHIP ZONING ORDINANCE
- TOWNSHIP ZONING ORDINANCE.

 16. CONTRACTOR SHALL TEST PIT ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. RGS ASSOCIATES, INC. MAKES NO GUARANTEE THAT THE EXISTING UTILITIES ARE EXACTLY AS
- 17. CONTRACTOR SHALL VERIFY THE FINAL EARTHWORK QUANTITIES TO THEIR SATISFACTION PRIOR TO THE COMMENCEMENT OF SITE WORK. RGS MAKES NO GUARANTEE THAT IN-SITU SOILS WILL BE SUITABLE FOR STRUCTURAL FILL, OR THAT THE EARTHWORK WILL BALANCE. CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE ACTUAL EARTHWORK QUANTITIES ENCOUNTERED DURING CONSTRUCTION.
- 18. ALL DIMENSIONS IN AREAS OF PROPOSED CURBING ARE FROM FACE OF CURB TO FACE OF CURB UNLESS OTHERWISE NOTED.19. IN THE CASE OF DISCREPANCY BETWEEN THE SCALED AND THE FIGURED DIMENSIONS SHOWN ON
- THESE PLANS, THE FIGURED DIMENSION SHALL GOVERN.

 20. FAILURE TO SPECIFICALLY IDENTIFY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO PERFORM
- SUCH WORK.

 21. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS,
- TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.

 22. THE CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY APPURTENANCES AS NECESSARY TO
- MATCH PROPOSED GRADES, UNLESS OTHERWISE NOTED.

 23. CURB AND PAVEMENT SHALL BE INSTALLED IN A MANNER AS TO ENSURE POSITIVE DRAINAGE IN
- 24. FIELD ADJUSTMENTS SHALL BE MADE AS NECESSARY TO PROVIDE A SMOOTH TRANSITION BOTH HORIZONTALLY AND VERTICALLY FROM THE EXISTING TO PROPOSED PAVING SECTIONS.
- 25. ALL UNSUITABLE MATERIAL WITHIN STRUCTURAL FILL AREAS MUST BE REMOVED AND REPLACED WITH SUITABLE MATERIAL TO A DEPTH AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND/OR THE MUNICIPALITY.
- 26. GEOTECHNICAL RECOMMENDATIONS PRESENTED IN THE REPORT ENTITLED, "GEOTECHNICAL ENGINEERING REPORT FOR SHEETZ LEBANON (SR 0072 AND LONG LANE)", PREPARED BY ECS MID-ATLANTIC, LCC, SHALL BE STRICTLY FOLLOWED. ANY DEVIATION MUST BE APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER.
- 27. WHERE IT IS NECESSARY TO CONNECT TO, OR EXTEND TO, EXISTING PAVING, SAW CUT THE EXISTING EDGE OF PAVEMENT AND MILL AND OVERLAY AT THE POINT OF TIE-IN TO ENSURE A SMOOTH TRANSITION AND POSITIVE DRAINAGE.28. THE RETAINING WALLS SHOWN HEREON HAVE NOT BEEN STRUCTURALLY DESIGNED, AND ARE
- 28. THE RETAINING WALLS SHOWN HEREON HAVE NOT BEEN STRUCTURALLY DESIGNED, AND ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. THE FINAL SHAPE, HEIGHT, FOOTING, MATERIAL SELECTION, AND DESIGN OF THESE WALLS IS THE RESPONSIBILITY OF THE CONTRACTOR.

 29. A GEOTECHNICAL ENGINEER OR OTHER TECHNICAL PROFESSIONAL SHALL BE PRESENT DURING
- THE CONSTRUCTION OF SLOPES EXCEEDING 3:1 FILL OR 2:1 CUT.

 30. ALL ITEMS WHICH ARE REFERENCED AND NOT SPECIFICALLY DETAILED SHALL BE SELECTED BY
- THE OWNER OR OWNER'S REPRESENTATIVE.

 31. A LICENSED PROFESSIONAL GEOLOGIST/GEOTECHNICAL ENGINEER, RGS ASSOCIATES AND THE MUNICIPALITY SHALL BE CONTACTED UPON THE DISCOVERY OF ANY SINKHOLES OR CARBONATE GEOLOGY FORMATIONS DURING CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITIES.
- IF A SINKHOLE IS ENCOUNTERED WITHIN OR IMMEDIATELY ADJACENT TO THE PROPOSED STORMWATER MANAGEMENT FACILITIES, PRIOR TO OR DURING CONSTRUCTION, THE SINKHOLE SHOULD BE PROMPTLY REPAIRED UNDER THE DIRECTION OF A QUALIFIED GEOLOGIST OR GEOTECHNICAL ENGINEER.
- THE CONTRACTOR SHALL VERIFY THAT THE SUBGRADE IS PREPARED IN ACCORDANCE WITH THE PROJECT'S GEO-TECHNICAL RECOMMENDATIONS.
 THE CONTRACTOR SHALL VERIFY SUBSURFACE CONDITIONS TO HIS SATISFACTION PRIOR TO PLACEMENT OF CONCRETE OR ASPHALT. RGS ASSOCIATES MAKES NO GUARANTEE, WRITTEN OR
- IMPLIED, THAT THE SUBGRADE IS SUITABLE FOR DEVELOPMENT. RGS ASSOCIATES RECOMMENDS THAT ALL SUBGRADES BE INSPECTED BY A LICENSED PROFESSIONAL GEO-TECHNICAL ENGINEER PRIOR TO PLACEMENT OF PAVEMENTS.

 34. THE ASPHALT PAVEMENT SECTIONS SHOWN ON THE PLANS MEET OR EXCEED THE MUNICIPAL STANDARDS. IT IS ASSUMED THAT THE SUBGRADE, MATERIALS, CONDITIONS AND
- CONSTRUCTION METHODS ARE IN ACCORDANCE WITH ALL MUNICIPAL AND/OR PENNDOT CONSTRUCTION STANDARDS.

 35. THE ASPHALT PAVEMENT SECTIONS SHOWN ON THE PLANS MAY-NOT BE DESIGNED FOR CERTAIN LEVELS OF CONSTRUCTION RELATED TRAFFIC/EOUIPMENT. ADDITIONAL DEPTH OF STONE
- 35. THE ASPHALT PAVEMENT SECTIONS SHOWN ON THE PLANS MAY-NOT BE DESIGNED FOR CERTAIN LEVELS OF CONSTRUCTION RELATED TRAFFIC/EQUIPMENT. ADDITIONAL DEPTH OF STONE AND/OR ASPHALT BASE MAY BE REQUIRED TO SUPPORT CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ANALYSIS, MODIFICATIONS AND/OR REPAIRS FOR SUCH CHANGES AND ACTIVITIES.
- 36. RGS HAS NOT PROVIDED ANY STRUCTURAL DESIGN OF THE PAVEMENT CROSS SECTION OR DETERMINATION OF THE IN-SITU MATERIAL'S SUITABILITY AS A ROAD BASE. SUCH TESTING AND ANALYSIS IS THE CONTRACTOR'S RESPONSIBILITY DURING CONSTRUCTION BEFORE THE PLACEMENT OF THE PAVING SECTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ANY REQUIRED STRUCTURAL TESTING OR CERTIFICATION FOR THE INSTALLED PAVEMENT TO THE OWNER AND/OR MUNICIPAL REPRESENTATIVE.
- OWNER AND/OR MUNICIPAL REPRESENTATIVE.

 37. AT ALL TIMES DURING AND AFTER CONSTRUCTION, THE SUBBASE AND BASE OF THE PAVING SECTION SHALL BE FREE DRAINING. THE CONTRACTOR SHALL INSTALL UNDER DRAINS, IN ACCORDANCE WITH RC-30M, AT ALL LOCATIONS WHERE THE PAVEMENT BASE IS NOT FREE DRAINING OR SUSCEPTIBLE TO FREEZE/THAW DAMAGE. WATER SHALL NOT BE IMPOUNDED
- 38. THE CONTRACTOR MAY NOT BEGIN CONSTRUCTION UNTIL ALL REQUIRED PERMITS HAVE BEEN ISSUED BY THE CONSERVATION DISTRICT OR PA DEP. IT IS THE CONTRACTORS' RESPONSIBILITY TO VERIFY WITH RGS ASSOCIATES, PRIOR TO BEGINNING CONSTRUCTION, THAT THE MOST CURRENT APPROVED PLANS ARE BEING UTILIZED.
- 39. TOPSOIL MUST BE FREE OF LARGE DEBRIS, ROOTS, ROCKS, BRUSH, SOD, FROZEN PARTICLES, OR OTHER FOREIGN OR OBJECTIONABLE MATERIAL THAT WOULD INHIBIT VEGETATIVE ESTABLISHMENT AND GROWTH TO MEET THE PROJECT REQUIREMENTS. TOPSOIL MUST BE SUITABLE TO SUPPORT A DENSE AND DIVERSE VEGETATIVE COVER, AS DIRECTED BY THE OWNER OR LANDSCAPE ARCHITECT.

SHEETZ SPECIFIC NOTES

- DEMOLITION NOTES

 1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND/OR VERIFYING ALL LOCAL AND STATE PERMITS
- REQUIRED FOR DEMOLITION WORK HAVE BEEN OBTAINED.

 2. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND/OR ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION
- AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.

 EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE AND DO NOT INCLUDE MECHANICAL, ELECTRICAL AND MISCELLANEOUS STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE DEMOLITION WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 4. ALL EXISTING ABOVE AND BELOW GROUND STRUCTURES WITHIN THE LIMITS OF NEW CONSTRUCTION SHALL BE RAZED UNLESS NOTED OTHERWISE WITHIN THIS CONSTRUCTION SET, ARCHITECTURAL PLANS AND/OR PROJECT SPECIFICATIONS. THIS INCLUDES FOUNDATION SLABS, WALLS, AND FOOTINGS.
- 5. ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
- ALL UTILITY REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY.
 THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR GETS WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
- 8. UTILITY CONTACTS ARE LISTED ON THE SHEET LD-2,

 9. EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES AROUND AREAS OF DEMOLITION SHALL BE INSTALLED PRIOR TO INITIATION OF DEMOLITION ACTIVITIES REFER TO THE E&S PLAN FOR DETAILS.
- EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES AROUND AREAS OF DEMOLITION SHALL BE INSTALLED PRIOR TO INITIATION OF DEMOLITION ACTIVITIES. REFER TO THE E&S PLAN FOR DETAILS.
 ASBESTOS OR HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY SHEETZ IMMEDIATELY IF HAZARDOUS MATERIALS ARE
- 11. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.

 12. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSHA REGULATIONS WHEN OPERATING DEMOLITION EQUIPMENT AROUND UTILITIES. CONTRACTOR SHALL ALSO COMPLY WITH 29 CFR 1926.651 & 1926.652 OR COMPARABLE OSHA APPROVED STATE PLAN REQUIREMENTS FOR TRENCHING AND EXCAVATION.
- GRADING NOTES

 1. ALL SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS PREPARED BY RGS ASSOCIATES, INC., THE CURRENT REQUIREMENTS OF NORTH LEBANON TOWNSHIP, THE APPLICABLE SECTIONS OF THE PENNDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION, AND ALL OTHER PERTINENT FEDERAL AND STATE
- LAWS.

 2. THE CONTRACTOR SHALL COMPLY AT ALL TIMES WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, PROVISIONS, AND POLICIES GOVERNING SAFETY AND HEALTH.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE AREAS AND CONDITIONS UNDER WHICH THE PROJECT IS TO BE CONSTRUCTED PRIOR TO THE SUBMISSION OF A BID. SUBMISSION OF A BID SHALL BE CONSTRUED TO MEAN THE CONTRACTOR HAS REVIEWED THE SITE AND IS FAMILIAR WITH CONDITIONS AND CONSTRAINTS OF THE SITE. IF DISCREPANCIES BETWEEN FIELD CONDITIONS AND DESIGN PLANS ARE DISCOVERED, CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER IMMEDIATELY.
- 4. BEFORE EXCAVATION, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD BY THE PROPER AUTHORITIES. THE CONTRACTOR SHALL NOTIFY PA ONE CALL AT 1-800-242-1776. THE LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND MAY NOT ALL BE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES.
- 5. ALL EXISTING TREES, VEGETATION, PAVEMENTS, CONCRETE FOUNDATIONS, STRUCTURES AND ORGANIC TOPSOIL SHALL BE STRIPPED AND REMOVED FROM NEW CONSTRUCTION AREAS UNLESS NOTED OTHERWISE.
 6. ALL SLOPES SHALL BE 2:1 (HORIZONTAL: VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE. ALL SLOPES 3:1 OR
- GREATER SHALL BE PERMANENTLY STABILIZED WITH VEGETATION.

 7. AN AS-BUILT DRAWING OF NEW UTILITY SERVICES MUST BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER UPON COMPLETION OF THE PROJECT.

 8. API AREAS NOT PAVED SHALL BE TOP SOILED, SEEDED, SODDED, MULCHED AND/OR LANDSCAPED UNLESS
- OTHERWISE NOTED IN THE CONSTRUCTION DRAWINGS, SITE SPECIFICATIONS OR INSTRUCTED BY THE OWNER.

 9. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT PREPARED BY ECS MID-ATLANTIC, LLC PRIOR TO INITIATION OF ANY EARTHWORK ACTIVITY.

 10. ALL ELEVATIONS SHOWN ARE REFERENCED TO BENCHMARKS ON THE PROJECT SURVEY AND SHALL BE FIELD
- VERIFIED BY THE CONTRACTOR AT GROUNDBREAKING.

 11. ALL SPOT ELEVATIONS ARE REFERENCED TO THE FINISHED GROUND SURFACE UNLESS NOTED OTHERWISE.

 12. CONTRACTOR SHALL REFERENCE DETAILED BUILDING PLANS FOR EXACT BUILDING DIMENSIONS, ELEVATIONS,
- AND UTILITY CONNECTION POINTS.

 13. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION.
- 14. CONTRACTOR SHALL ALSO COMPLY WITH 29 CFR 1926.651 & 1926.652 OR COMPARABLE OSHA APPROVED STATE PLAN REQUIREMENTS FOR TRENCHING AND EXCAVATION.

 LAYOUT NOTES
- L. CONTRACTOR SHALL REFER TO THE SHEETZ ARCHITECTURAL PLANS FOR THE EXACT LOCATION OF UTILITY ENTRANCES, BUILDING DIMENSIONS, ROOF LEADERS, EXIT DOORS, EXIT RAMPS AND PORCHES.
- ALL DIMENSIONS ARE TO BUILDING FACE, FACE OF CURB, OR EDGE OF SIDEWALK UNLESS NOTED OTHERWISE. ALL AN8LES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
 CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS FOR THE INSTALLATION OF TRAFFIC SIGNAGE AND PAVEMENT MARKINGS AS SHOWN ON THE CONSTRUCTION PLANS
- PAVEMENT MARKINGS AS SHOWN ON THE CONSTRUCTION PLANS.

 4. ALL NON-LANDSCAPED ISLANDS SHALL BE PAINTED WITH STRIPES 4" WIDE, AT 45° AND 2 FEET O.C,
- 5. ALL STRIPING SHALL BE 4" WIDE UNLESS NOTED OTHERWISE.
 6. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF THE SHEETZ MAIN FREESTANDING SIGN WITH THE SHEFTZ CONSTRUCTION MANAGER.
- CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION.
 ALL DIMENSIONS SHOWN ON THIS PLAN SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY SHEETZ REPRESENTATIVE AND DESIGN ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLAN AND FIELD CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR ALL
- DIMENSIONS AT THE PROJECT SITE.

 9. SEE DETAIL SHEETS FOR ADDITIONAL CONSTRUCTION INFORMATION.

 10. CONTRACTOR SHALL NEATLY SAW-CUT ALL JOINTS WHERE THE PROPOSED CONSTRUCTION MEET EXISTING PAVEMENT AND CONCRETE
- STORMWATER MANAGEMENT NOTES
 ALL SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS PREPARED BY RGS ASSOCIATES, INC., THE CURRENT REQUIREMENTS OF NORTH LEBANON TOWNSHIP, THE APPLICABLE SECTIONS OF THE PENNDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION, AND ALL OTHER PERTINENT FEDERAL AND STATE
- THE CONTRACTOR SHALL COMPLY AT ALL TIMES WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, PROVISIONS, AND POLICIES GOVERNING SAFETY AND HEALTH.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE AREAS AND CONDITIONS UNDER WHICH THE PROJECT IS TO BE CONSTRUCTED PRIOR TO THE SUBMISSION OF A BID. SUBMISSION OF A BID SHALL BE CONSTRUED TO MEAN THE CONTRACTOR HAS REVIEWED THE SITE AND IS FAMILIAR WITH CONDITIONS AND
- CONSTRAINTS OF THE SITE.

 4. BEFORE EXCAVATION, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD BY THE PROPER AUTHORITIES. THE CONTRACTOR SHALL NOTIFY PA ONE CALL AT 1-800-242-1776. THE LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND MAY NOT ALL BE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES.
- 5. CONTRACTOR SHALL COORDINATE FUEL ISLAND CANOPY DRAINS CONNECTION TO THE MAIN COLLECTOR PIPE WITH THE SHEETZ CONSTRUCTION MANAGER AND PROVIDE ALL NECESSARY FITTINGS TO MAKE THE CONNECTION TO THE MAIN COLLECTOR PIPE.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS ON ALL STORM SEWER PIPE, MANHOLES, AND INLETS TO THE SHEETZ CONSTRUCTION MANAGER FOR APPROVAL.
 AN AS-BUILT DRAWING OF NEW UTILITY SERVICES SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER UPON COMPLETION OF THE PROJECT.
- TO THE OWNER UPON COMPLETION OF THE PROJECT.

 8. ALL STORM PIPE SHALL BE AS SPECIFIED. ALL JOINTS SHALL BE WATERTIGHT.

 9. ALL STORM STRUCTURES DIRECTLY DOWN GRADIENT OF THE FUEL PUMP PAD OR UNDERGROUND STORAGE

 TANKS CHARLES AS A SHARD AND DAMP OF A TURE (FOR EXAMPLE (SAIGHT) MISTALLED ON THE OUTTLONG PIPE.)
- TANKS SHALL HAVE A SUMP AND BMP FEATURE (FOR EXAMPLE 'SNOUT') INSTALLED ON THE OUTFLOW PIPE.

 10. CONTRACTOR SHALL ALSO COMPLY WITH 29 CFR 1926.651 & 1926.652 OR COMPARABLE OSHA APPROVED STATE PLAN REQUIREMENTS FOR TRENCHING AND EXCAVATION.

 11. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT
- INFORMATION.

 UTILITY NOTES

 1. ALL SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS PREPARED BY RGS ASSOCIATES, INC., THE CURRENT REQUIREMENTS OF NORTH LEBANON TOWNSHIP, THE APPLICABLE SECTIONS OF THE PENNDOT
- STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION, AND ALL OTHER PERTINENT FEDERAL AND STATE LAWS.

 2. THE CONTRACTOR SHALL COMPLY AT ALL TIMES WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, PROVISIONS, AND POLICIES GOVERNING SAFETY AND HEALTH.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE AREAS AND CONDITIONS UNDER WHICH THE PROJECT IS TO BE CONSTRUCTED PRIOR TO THE SUBMISSION OF A BID.
 BEFORE EXCAVATION, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD BY THE PROPER AUTHORITIES. THE CONTRACTOR SHALL NOTIFY PA ONE CALL AT 1-800-242-1776. THE LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND MAY NOT ALL BE SHOWN. IT IS THE
- RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES.

 5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BID AND PERFORM ALL UTILITY WORK IN COMPLIANCE TO
- ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH THE INSTALLATION, INSPECTING, TESTING AND FINAL ACCEPTANCE OF ALL PROPOSED UTILITY CONSTRUCTION UNLESS OTHERWISE COORDINATED BEFOREHAND WITH SHEETZ.
 7. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY ON THE ADDITION, REMOVAL
- AND/OR RELOCATION OF UTILITIES AND UTILITY POLES AND THE EXTENSION OF ALL PROPOSED UTILITIES TO THE SHEETZ PROJECT STRUCTURES.

 8. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE UTILITY OF THE CONTRACTOR TO ENGLISE ALL UTILITIES ARE INSTALLED.
- 8. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE UTILITY COMPANY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL UTILITIES ARE INSTALLED CORRECTLY TO MEET PROJECT REQUIREMENTS WHETHER PERFORMED BY THE CONTRACTOR OR NOT.

 9. AN AS-BUILT DRAWING OF NEW UTILITY SERVICES SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER UPON COMPLETION OF THE PROJECT.
- UTILITY COMPANIES AND CONTACTS ARE LISTED ON SHEET LD-2.
 CONDUIT LOCATIONS TO FREESTANDING SIGNS AND SITE LIGHT POLES TO BE COORDINATED WITH SHEETZ CONSTRUCTION MANAGER.
 CONTRACTOR SHALL COORDINATE AND VERIFY WITH SHEETZ CONSTRUCTION MANAGER ON LOCATION AND
- SIZE OF THE STORE GREASE TRAP. GREASE TRAP SHALL BE PROVIDED WITH "T" PIPE IN OUTFLOW CHAMBER. ALL SANITARY SEWER PIPE SHALL BE SDR-35 PVC UNLESS OTHERWISE NOTED.

 13. CONTRACTOR SHALL COORDINATE WITH SHEETZ CONSTRUCTION MANAGER AND SHEETZ IT DEPARTMENT ON THE CONDUIT ROUTE TO STORE FOR TELE/COMMUNICATION SERVICES.
- CONTRACTOR SHALL ALSO COMPLY WITH 29 CFR 1926.651 & 1926.652 OR COMPARABLE OSHA APPROVED STATE PLAN REQUIREMENTS FOR TRENCHING AND EXCAVATION.
 CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION

UTILITY NOTES

MANHOLES.

A. GENERAL NOTES - SANITARY <u>SEWER</u>

- A. <u>GENERAL NOTES SANITARY SEWER</u>

 1. MINIMUM OF 4' OF COVER IS REQUIRED OVER ALL SEWER LINES. THE SEWER MAIN SHALL BE
- CONSTRUCTED TO THE LINE AND GRADE SHOWN ON THE PLANS.

 2. THE CONTRACTOR IS RESPONSIBLE FOR ALL FIELD TESTING AND "RECORD DRAWINGS" PER THE AUTHORITY REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN FIELD RECORDS OF THE LOCATION AND DEPTH OF ALL SANITARY SEWER LATERAL LOCATIONS, AND SHALL PROVIDE THIS INFORMATION TO THE DESIGN ENGINEER FOR PREPARATION OF AS-BUILT DRAWINGS.
- INFORMATION TO THE DESIGN ENGINEER FOR PREPARATION OF AS-BUILT DRAWINGS.

 3. A MINIMUM VERTICAL SEPARATION OF 18" SHALL BE MAINTAINED BETWEEN ALL WATER AND SEWER CROSSINGS. IF THIS CLEARANCE CANNOT BE MAINTAINED, A CONCRETE ENCASEMENT SHALL BE PROVIDED.
- 4. ALL SANITARY SEWER IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUNICIPAL SEWER AUTHORITY CONSTRUCTION SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE OF APPLICABLE STANDARDS AND SPECIFICATIONS AS WELL AS THE REQUIRED METHODS OF CONSTRUCTION. ALL DEVIATIONS FROM THE PLANS MUST BE APPROVED PRIOR TO CONSTRUCTION
- 5. 95% STANDARD PROCTOR FILL COMPACTION IS REQUIRED FOR ALL SANITARY SEWER FACILITIES LOCATED IN FILL MATERIAL. TESTING MUST BE IN ACCORDANCE WITH THE APPROPRIATE AASHTO AND ASTM STANDARDS
- AASHTO AND ASTM STANDARDS.

 6. ALL SANITARY SEWER MANHOLES WITHIN THE PUBLIC RIGHT-OF-WAY SHALL HAVE THE MANHOLE CONE SECTION ROTATED TO MINIMIZE IMPACTS WITHIN THE VEHICLE WHEEL PATHS.
- ALL CLEANOUTS & SANITARY MANHOLES LOCATED WITHIN PAVED AREAS SHALL BE INSTALLED WITH TRAFFIC BEARING TOPS.
 A MINIMUM OF 0.1 FEET OF FALL SHALL BE PROVIDED THROUGH ALL SANITARY SEWER
- 9. ALL SANITARY SEWERS SHALL BE CONSTRUCTED FROM SDR-35 PVC UNLESS OTHERWISE NOTED ON THE PLANS.

GENERAL NOTES - WATER SERVICE CONTRACTOR SHALL INSTALL A COMPLETE WATER SYSTEM TO INCLUDE THE EXTENSION OF AN

- INDIVIDUAL SERVICE LATERAL (EXACT LOCATION AND SIZE TO BE DETERMINED BY MEP) IN CONFORMANCE WITH THE SPECIFICATIONS AND DETAILS OF THE MUNICIPAL AUTHORITY.

 THE CONTRACTOR IS RESPONSIBLE FOR ALL TESTING AND "RECORD DRAWINGS" PER AUTHORITY REQUIREMENTS.
- 3. ALL WATER MAINS SHALL COMPLY WITH CITY OF LEBANON AUTHORITY SPECIFICATIONS UNLESS SPECIFIC WAIVERS HAVE BEEN GRANTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE OF APPLICABLE STANDARDS AND SPECIFICATIONS AS WELL AS THE REQUIRED METHODS OF CONSTRUCTION. ALL DEVIATIONS FROM THE PLANS MUST BE APPROVED PRIOR TO CONSTRUCTION.
- 4. 95% FILL COMPACTION IS REQUIRED FOR ALL WATER DISTRIBUTION FACILITIES LOCATED IN FILL MATERIAL.
 5. THE CONSTRUCTION OF WATER AND SANITARY SEWER LINES SHALL BE IN ACCORDANCE WITH PA
- DEP REGULATIONS RELATED TO HORIZONTAL AND VERTICAL SEPARATION.

 6. ALL WATER APPURTENANCES SHALL BE SET TO FINISHED GRADE, UNLESS OTHERWISE NOTED.

 7. IF A FIRE DEPARTMENT CONNECTION (FDC) IS REQUIRED FOR ANY BUILDING, THE FDC SHALL BE PLACED WITHIN A DISTANCE AS DETERMINED BY LOCAL, STATE AND FEDERAL REGULATIONS, PER NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODE, AS REVISED, IN COORDINATION WITH MUNICIPAL STAFF AND THE LOCAL FIRE DEPARTMENT. THE FIRE HYDRANT LOCATION(S) DEPICTED ON THE PLANS HAVE BEEN PLACED WITH THE BEST AVAILABLE INFORMATION AVAILABLE AT THIS TIME. HOWEVER, RELOCATION OR ADDITIONS OF THE FDC MAY CAUSE THE NEED TO RELOCATE FIRE HYDRANTS.

GENERAL NOTES - STORM DRAINAGE THE PROPERTY OWNER WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL STORMWATER

- MANAGEMENT FACILITIES TO ENSURE THEY ARE KEPT IN DESIGN CONDITION.

 2. THE STORMWATER COLLECTION AND CONVEYANCE SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH DESIGN STANDARDS AND SPECIFICATIONS IN PLACE AT THE TIME OF PLAN APPROVALS. RGS ASSUMES NO RESPONSIBILITY FOR CHANGES IN SPECIFICATIONS THAT MAY OCCUR AFTER PLAN APPROVAL THAT WOULD REQUIRE ALTERNATE MATERIALS OR INSTALLATION REQUIREMENTS. THE CONTRACTOR SHALL VERIFY ALL CURRENT STANDARDS AND NOTIFY THE OWNER/DEVELOPER AND RGS ASSOCIATES OF ANY DISCREPANCIES THAT MAY EXIST PRIOR TO THE START OF CONSTRUCTION.
- CONSTRUCTION OF STORMWATER MANAGEMENT AND EROSION CONTROL FACILITIES SHALL BE IN ACCORDANCE WITH THE MUNICIPALITY AND COUNTY CONSERVATION DISTRICT STANDARDS AND SPECIFICATIONS.
 ALL STORMWATER MANAGEMENT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE
- MATERIAL SPECIFICATIONS, UNLESS OTHERWISE NOTED.

 5. EASEMENT CONFLICTS PROHIBITED: NOTHING SHALL BE PLACED, PLANTED, SET, OR PUT WITHIN THE AREA OF ANY EASEMENT THAT WOULD ADVERSELY AFFECT THE FUNCTION OF THE EASEMENT. NO PERSON SHALL PLACE ANY STRUCTURE, FILL, OR VEGETATION INTO A STORM WATER MANAGEMENT FACILITY OR WITHIN A DRAINAGE EASEMENT WHICH WILL LIMIT OR ALTER THE FUNCTIONS OF THE FACILITY OR EASEMENT IN ANY WAY.
- THE MUNICIPALITY WILL HAVE THE RIGHT TO ACCESS THROUGH EASEMENTS.
 WHERE ANY PART OF THE PROPOSED STORM DRAIN SYSTEM IS TO BE CONSTRUCTED WITHIN A FILL SECTION, THE CONTRACTOR SHALL COMPACT ALL SELECT FILL MATERIAL TO 95% OF ASTM D-698 (AASHTO T-99) WITH A MOISTURE CONTENT ± 3% OF OPTIMUM UP TO THE PIPE BEDDING. REFER TO THE "STORMWATER MANAGEMENT CONSTRUCTION SPECIFICATIONS" FOR A
- DESCRIPTION OF SELECT FILL MATERIAL.

 8. ALL EMBEDMENT MATERIALS USED FOR BEDDING, HAUNCHING AND INITIAL BACKFILL FOR SLCPP/HDPEP PIPE SHALL CONFORM TO AASHTO SECTION 30 AND ASTM D-2321 AS PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

D. ADS PIPE INSTALLATION NOTES

- STORMDRAIN PIPES SHALL BE ADS (N-12) HDPE PIPE WITH ADS PRO-LINK ULTRA (IN-LINE BELL)
 PIPE JOINTS (FOR SOIL TIGHT CONNECTIONS) AND/OR ADS PRO-LINK WT (FOR WATER TIGHT
 CONNECTIONS). REFER TO PLAN AND PROFILES FOR MATERIALS USED.
- 2. ALL EMBEDMENT MATERIALS USED FOR BEDDING, HAUNCHING AND INITIAL BACKFILL FOR HDPE PIPE SHALL CONFORM TO AASHTO SECTION 30 AND ASTM D-2321 AS PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- 3. CONTRACTOR IS TO MAKE ADJUSTMENTS AS NEEDED AT THE PIPE BELL JOINTS IN THE TRENCH CONSTRUCTION AND BACKFILL. REFER TO ADS TECHNICAL NOTE 3.115 FOR INSTALLATION SPECIFICATIONS. (CURVE PIPE INSTALLATION ONLY)

ALL PROPOSED UTILITIES SHALL BE UNDERGROUND, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE UNDERGROUND ELECTRICAL SERVICE. THE EXISTING UTILITIES SHOWN HAVE BEEN DETERMINED AND REFERENCED BASED UPON INFORMATION RECEIVED FROM THE UTILITY COMPANIES, SURVEYORS, VISITS TO THE SITE

- THE EXISTING UTILITIES SHOWN HAVE BEEN DETERMINED AND REFERENCED BASED UPON INFORMATION RECEIVED FROM THE UTILITY COMPANIES, SURVEYORS, VISITS TO THE SITE AND GENERAL BEST INFORMATION, TO THE BEST OF RGS ASSOCIATES' KNOWLEDGE, AT THE TIME OF DESIGN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION BY CALLING THE PENNSYLVANIA ONE CALL SYSTEM 1-800-242-1776 A MINIMUM OF 3 DAYS PRIOR TO EXCAVATING OR WITH CAREFUL EXPLORATORY WORK, AT THE CONTRACTOR'S RISK, PRIOR TO CONSTRUCTION FOR THOSE PRIVATE LINES WHICH ARE NOT ABLE TO BE LOCATED THROUGH THE ONE CALL PROCESS. IT MAY BECOME NECESSARY TO ADJUST THE PROPOSED UTILITY LOCATION IN THE FIELD TO RESOLVE ANY UTILITY CROSSING CONFLICTS WHICH MAY OCCUR. RGS ASSOCIATES SHALL BE NOTIFIED
- IMMEDIATELY IF ANY SUCH CONFLICTS ARE ENCOUNTERED.
 4. ALL UTILITY ELEVATIONS ARE AT THE INVERT UNLESS OTHERWISE NOTED.

WETLAND NOTES

1. IN JULY OF 2024 A PRELIMINARY WETLANDS INVESTIGATION TO DETERMINE THE EXTENT OF WETLANDS PRESENT ON THE SITE WAS CONDUCTED BY VORTEX ENVIRONMENTAL, INC. AT SUCH TIME, NO WETLANDS WERE REPORTED ON THE SITE AS THE SOILS, VEGETATION, AND HYDROLOGY OF SAMPLE SITES DID NOT MEET THE CRITERIA FOR WETLAND DETERMINATIONS.

CONSTRUCTION SEQUENCE SCHEDULE

ANTICIPATED TIME FRAME

EROSION AND SEDIMENT CONTROL NOTES

- THE MEASURES REQUIRED IN THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN SHALL APPLY AS IF SHOWN ON THIS PLAN. THESE MEASURES SHALL BE COMPLETED AND IN SERVICE PRIOR TO THE COMMENCEMENT OF ANY SITE WORK OR CONSTRUCTION, PER THE SEQUENCE OF CONSTRUCTION OUTLINED ON THE APPROVED EROSION AND SEDIMENT CONTROL
- 2. SOIL TYPES PRESENT ON THE SITE, PER THE SOIL SURVEY OF LEBANON COUNTY, PENNSYLVANIA ARE AS FOLLOWS:

SYMBOL	NAME	SLOPE	HYDRO GROUP
BeB	BEDINGTON SHALY SILT LOAM	3-8%	В
CmB	COMLY SILT LOAM	3-8%	С
KnB	KLINESVILLE SHALY SILT LOAM	3-8%	D

PADOT/STREET NOTES

- 1. A HIGHWAY OCCUPANCY PERMIT IS REQUIRED PURSUANT TO SECTION 420 OF THE ACT OF JUNE 1, 1945 (P.L. 1242, NO. 428), KNOWN AS THE "STATE HIGHWAY LAW", BEFORE STREET OR DRIVEWAY ACCESS TO A STATE HIGHWAY IS PERMITTED. ACCESS TO THE STATE HIGHWAY SHALL ONLY BE AS AUTHORIZED BY A HIGHWAY OCCUPANCY PERMIT, AND THE PLANNING COMMISSION'S
- APPROVAL OF THIS PLAN IN NO WAY IMPLIES THAT SUCH PERMIT CAN BE ACQUIRED.

 2. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ENSURING THAT DEEDS TO LOTS WHICH CONTAIN CLEAR SIGHT TRIANGLES AND LINE OF SIGHT EASEMENTS SHALL PROVIDE THAT NO STRUCTURE, PLANTINGS, OR GRADING SHALL BE ERECTED, INSTALLED, OR PERFORMED WITHIN THE AREA OF
- 3. DESIGN AND PLACEMENT OF TRAFFIC SIGNS SHALL FOLLOW THE REQUIREMENTS SPECIFIED IN PADOT PUBLICATION 236, HANDBOOK OF APPROVED SIGNS, AND PADOT PUBLICATION 201, engineering AND TRAFFIC STUDIES.

THE CLEAR SIGHT TRIANGLE WHICH WILL OBSCURE THE VISION OF MOTORISTS.

MUNICIPAL SPECIFIC NOTES

- LIGHTING SHALL BE PROVIDED IN CONFORMANCE WITH SECTION 21-524, OF THE NORTH LEBANON TOWNSHIP MUNICIPAL CODE AND SECTION 610.10, OF THE NORTH LEBANON TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.
- 2. WHEN REQUIRED BY THE TOWNSHIP, ALL STREETLIGHTS WILL BE INSTALLED BY MET-ED (FIRST ENERGY) WITH THE DEVELOPER PAYING FOR ALL THE MATERIAL AND LABOR COST. THE DEVELOPER MUST USE THE COLONIAL STYLE POST TOP AND POLE OFFERED BY MET-ED (FIRST ENERGY). MET-ED (FIRST ENERGY) STILL OWNS AND MAINTAINS THE SYSTEM. A MINIMUM NINETY-WATT LED LIGHT IS REQUIRED. THE LIGHTS SHALL BE SHOWN ON THE SUBDIVISION PLAN AT INTERVALS OF NOT MORE THAN 200 FEET AND ARE SUBJECT TO APPROVAL BY MET-ED (FIRST ENERGY) AND THE TOWNSHIP. A SEPARATE SHEET SHALL REFLECT THE PROPOSED STREETLIGHT LAYOUT WITH DISTANCES BETWEEN LIGHTS SHOWN AND LOT WIDTHS AT CURB TO DETERMINE FUTURE STREETLIGHT ASSESSMENT COSTS.
- 3. IT IS MET-ED'S POLICY TO ENERGIZE THE LIGHTS UPON INSTALLATION IN NORTH LEBANON TOWNSHIP. THE DEVELOPER WILL BE RESPONSIBLE FOR ALL COSTS, INCLUDING ENERGY COSTS, UNTIL SUCH TIME AS THE STREET IS DEDICATED AND ACCEPTED BY THE TOWNSHIP. STREETLIGHT ASSESSMENT IS BASED ON FRONT FOOT ASSESSMENT.
- ASSESSMENT IS BASED ON FRONT FOOT ASSESSMENT.

 4. THE DEVELOPER IS REQUIRED TO PROVIDE A LOCKING MECHANISM AT THE BOX THAT HOUSES THE SWITCH FOR THE STREETLIGHT(S). THE LOCKING MECHANISM MUST BE APPROVED BY THE ROADMASTER OF NORTH LEBANON TOWNSHIP PRIOR TO INSTALLATION.

5. THE MUNICIPALITY IS NOT RESPONSIBLE FOR MAINTENANCE OF ANY AREA NOT DEDICATED TO

- AND ACCEPTED FOR PUBLIC USE, AND NO ALTERATION TO SWALES, OR BASINS, OR PLACEMENT OF STRUCTURES SHALL BE PERMITTED WITHIN EASEMENTS.

 6. THE TYPICAL STREET CROSS-SECTION IS IN ACCORDANCE WITH THE MUNICIPAL ORDINANCE.

 7. 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
- PAID FROM THE FINANCIAL SECURITY POSTED WITH THE TOWNSHIP.

 8. THE DEVELOPER SHALL MAINTAIN UNDEDICATED STREETS.

 9. STORMWATER INLETS OR DRAINAGE PIPES WHICH BECOME FILLED WITH MUD OR DEBRIS FROM CONSTRUCTION ACTIVITIES SHALL BE CLEANED BY THE RESPONSIBLE CONTRACTOR, DEVELOPER,

HAVE THE AREA PROPERLY MARKED AND BARRICADED AND TO HAVE THE COSTS AND PENALTY

- OR LANDOWNER.

 10. CONSTRUCTION OF SEWER LATERALS SHALL COMPLY WITH THE RULES, REGULATIONS, AND SPECIFICATIONS OF NLTMA. DO NOT BACKFILL SEWER LATERAL TRENCH UNTIL INSPECTED BY AN
- AUTHORIZED NLTMA REPRESENTATIVE.

 11. CONSTRUCTION OF WATER LATERALS SHALL COMPLY WITH THE RULES, REGULATIONS, AND SPECIFICATIONS OF THE CITY OF LEBANON AUTHORITY.

 12. IN ACCORDANCE WITH NORTH LEBANON TOWNSHIP ORDINANCE NO. 2-2010 (AS AMENDED), ALL

MULTI-FAMILY RESIDENTIAL, COMMERCIAL, INDUSTRIAL, AND INSTITUTIONAL BUILDINGS ARE

- REQUIRED TO HAVE A RAPID ENTRY SYSTEM (KNOX LOCK BOX) INSTALLED PRIOR TO ISSUANCE OF USE AND OCCUPANCY PERMITS.

 13. WHERE EXISTING TOWNSHIP RIGHTS-OF-WAY ARE PROPOSED TO BE EXCAVATED FOR THE CONNECTION TO PUBLIC UTILITIES OR OTHER CONSTRUCTION RELATED TO THIS PLAN, A STREET OCCUPANCY PERMIT IS REQUIRED FROM NORTH LEBANON TOWNSHIP. FINANCIAL SECURITY TO GUARANTEE PROPER STREET RESTORATION SHALL BE INCLUDED AS A LINE ITEM WITH OTHER
- FINANCIAL SECURITY REQUIRED FOR THE PROJECT.

 14. NOTHING SHALL BE PLACED, PLANTED, SET, OR PUT WITHIN THE AREA OF AN EASEMENT THAT WOULD ADVERSELY AFFECT THE FUNCTION OF THE EASEMENT OR CONFLICT WITH THE EASEMENT AGREEMENT.

IITII ITV I IST

ADDRESS:

UTILITY	<u>LIST</u>
COMPANY:	COMCAST CABLE LEBANON C/O USIC LOCATING SERVICES INC
ADDRESS:	13085 HAMILTON CROSSING BLVD STE 200 CARMEL, IN. 46032
CONTACT:	USIC OFFICE PERSONNEL 800-811-7981
COMPANY: ADDRESS:	LEBANON AUTHORITY CITY OF 2311 RIDGEVIEW RD LEBANON, PA. 17042
CONTACT:	BOB SENTZ BSENTZ@LEBANONAUTHORITY.ORG 717-272-2841
COMPANY:	LUMEN FORMERLY LEVEL 3

1025 ELDORADO BLVD

BROOMFIFLD, CO. 80021

CONTACT: LUMEN OPERATOR PERSONNEL RELOCATIONS@LUMEN.COM 877-366-8344 EXT. 3

COMPANY: FIRSTENERGY CORPORATION ADDRESS: 21 S MAIN ST AKRON, OH. 44308

CONTACT: MELLYSSA ADAMS MADAMS@FIRSTENERGYCORP.COM 320, 604, 4073

330-604-4073 NORTH LEBANON TOWNSHIP COMPANY 725 KIMMERLINGS ROAD ADDRESS: LEBANON, PA. 17046 OFFICE PERSONNEL 717-273-7132 COMPANY UGI UTILITIES INC 1301 AIP DR MIDDLETOWN, PA. 17057-5987 CONTACT: GEOFFREY FERGUSON GFERGUSON@UGI.CON 610-807-3118 VERIZON PENNSYLVANIA LLC COMPANY: ADDRESS: 40 S MERCER ST

NEW CASTLE, PA. 16101

TRICIA.L.JACOBS@VERIZON.COM

COMPANY: WINDSTREAM
ADDRESS: 1450 CENTER POINT RD
HIAWATHA, IA. 52233
CONTACT: LOCATE DESK PERSONNEL
LOCATE.DESK@WINDSTREAM.COM

800-289-1901

724-656-5224

TRICIA JACOBS

GEOTECHNICAL NOTES

- A. GENERAL RECOMMENDATIONS
 IF REDOXIMORPHIC FEATURES (SOIL MOTTLING AND COLORATION PATTERNS FORMED BY THE REDUCTION OF IRON AND/OR MANGANESE FROM SATURATED CONDITIONS IN THE SOIL) ARE ENCOUNTERED:
- ENCOUNTERED:

 1.1. A QUALIFIED PROFESSIONAL SHOULD DETERMINE IF THE FEATURES OBSERVED ARE
 ASSOCIATED WITH A HISTORIC CONDITION (ASSOCIATED WITH FILL, PREVIOUS SITE
 CONDITION, OR NATURAL COLORATION) OR ARE ASSOCIATED WITH CONDITIONS THAT
- COULD PRESENTLY OCCUR (SEASONAL VARIATIONS IN THE WATER TABLE).

 1.2. EVALUATE THE ELEVATION OF THE FEATURES RELATIVE TO THE PROPOSED DESIGN
 ELEVATION OF THE SWM FEATURE AND DETERMINE IF THE SIZE AND ELEVATION OF THE SWM
- FEATURE CAN BE ADJUSTED TO ALLEVIATE THE CONFLICT.

 1.3. RETAIN ECS AND CIVIL ENGINEER TO EVALUATE ALTERNATE DESIGN CONCEPTS. ALTERNATE DESIGNS PROPOSED BY THE PROFESSIONAL SHOULD BE SEALED AND SUBMITTED TO THE
- 2. IF THE FIELD VERIFIED INFILTRATION RATES ARE EXCESSIVELY HIGH (GREATER THAN 6 INCHES
- PER HOUR) AND CATION EXCHANGE CAPACITY IS KNOWN:
 2.1. DETERMINE THE EXTENT OF THE MATERIALS EXHIBITING THE HIGH INFILTRATION RATES
 THROUGH A COMBINATION OF VISUAL-MANUAL CLASSIFICATION, HAND PROBING, DENSITY
 TESTING, OR OTHER SUITABLE METHODS AS DETERMINED BY ECS.
- 2.2. OVEREXCAVATE THE MATERIALS TO THE DEPTH WHERE THE MATERIAL TYPE CHANGES OR A MAXIMUM DEPTH OF 2 FEET, WHICHEVER IS ENCOUNTERED FIRST.
 2.3. IF EXCESSIVE RATES ARE ASSOCIATED WITH WEATHERED OR BROKEN ROCK, THE ROCK SURFACE SHOULD BE EXAMINED BY ECS, PRIOR TO REPLACEMENT OF SUITABLE MATERIAL.
 2.4. REPLACE THE EXCAVATED MATERIAL WITH FINER GRAINED MATERIALS APPROVED BY ECS.
- SUITABLE SOIL MIXTURES CAN CONSIST OF A BLEND OF ON-SITE AND/OR OFF-SITE MATERIALS AVAILABLE TO THE CONTRACTOR GENERALLY CONFORMING TO THE TABLE BELOW, WITH FIELD INFILTRATION RATES POST PLACEMENT DETERMINED AND APPROVED BY ECS.

 2.5. MATERIALS SHOULD BE LIGHTLY TRACKED INTO PLACE IN NON-STRUCTURAL AREAS.

 2.6. IF MATERIAL REPLACEMENT IS REQUIRED IN STRUCTURAL AREAS (EX: BELOW-GRADE SWM FACILITIES IN PAVED AREAS). MATERIAL PLACEMENT SPECIFICATIONS. INCLUDING
- SUBMITTED TO THE TOWNSHIP FOR APPROVAL.

 3. IF THE FIELD VERIFIED INFILTRATION RATES ARE EXCESSIVELY LOW (LESS THAN 0.1 IN/HR):

 3.1. DETERMINE THE EXTENT OF THE MATERIALS EXHIBITING THE LOW INFILTRATION RATES

MATERIALS TYPE, MIX RATIO, COMPACTIVE EFFORT AND REQUIRED DENSITY SHOULD BE

DETERMINED BY ECS. TECHNICAL RECOMMENDATIONS SHOULD BE SEALED BY ECS AND

- THROUGH A COMBINATION OF VISUAL-MANUAL CLASSIFICATION, HAND PROBING, DENSITY TESTING, OR OTHER SUITABLE METHODS AS DETERMINED BY THE ECS.

 3.2. OVEREXCAVATE THE MATERIALS TO THE DEPTH WHERE THE MATERIAL TYPE CHANGES OR A MAXIMUM DEPTH OF 2 FEET, WHICHEVER IS ENCOUNTERED FIRST.
- 3.3. IF BEDROCK IS ENCOUNTERED, THE ROCK SHOULD BE REMOVED TO A MINIMUM DEPTH OF 2
 FEET BELOW THE BOTTOM OF BASIN AND SHOULD BE EXAMINED BY ECS, PRIOR TO
 REPLACEMENT OF SUITABLE MATERIAL.
 3.4. REPLACE THE EXCAVATED MATERIAL WITH MORE COARSELY GRAINED MATERIALS APPROVED
- BY ECS. SUITABLE SOIL MIXTURES CAN CONSIST OF A BLEND OF ON-SITE AND/OR OFF-SITE MATERIALS AVAILABLE TO THE CONTRACTOR, AND SUBJECT TO TESTING AND APPROVAL OF ECS.

 3.5. SUITABLE SOIL MIXTURES MAY CONSIST OF MATERIALS BLENDED BY VOLUME RATIOS AS
- 3.6. MATERIALS SHOULD BE LIGHTLY TRACKED INTO PLACE IN NON-STRUCTURAL AREAS.4. CONSTRUCTION RECOMMENDATIONS

DETERMINED BY ECS.

IT IS RECOMMENDED THAT VERIFICATION OF THE SUBGRADE CONDITIONS AT THE TIME OF CONSTRUCTION BE CONDUCTED BY AN AUTHORIZED ECS REPRESENTATIVE.

DURING EXCAVATION OF THE BASIN, THE MATERIALS AT THE BOTTOM OF BASIN SHOULD BE VERIFIED TO BE CONSISTENT WITH THOSE ENCOUNTERED IN THE EXPLORATION. PROPER PERFORMANCE OF INFILTRATION FACILITIES WILL BE INFLUENCED BY THE VARIABILITY IN THE SUBSURFACE. IT WILL BE IMPORTANT THAT CONSTRUCTION EQUIPMENT DOES NOT TRAFFIC ON THE MATERIALS AT THE INFILTRATION BED ELEVATION, AND THAT HAND PROBING ON AN APPROXIMATELY 25 FOOT GRID OR ISOLATED TEST PITS BE PROVIDED TO EVALUATE PROPER OFFSET DISTANCES FROM BEDROCK LIMITING ZONES

WE RECOMMEND SWM FACILITIES BE LOCATED A MINIMUM OF 25 FEET FROM ADJACENT BUILDINGS, TAKEN FROM EDGE OF SWM FACILITY TO OUTSIDE OF FOOTING. THE ALLOWABLE BUFFER DISTANCE IS HIGHLY DEPENDENT ON SITE CONSTRAINTS INCLUDING BUT NOT LIMITED TO, FOUNDATION TYPE, SUBGRADE SOILS, GEOLOGY, STRUCTURAL LOADING, FOUNDATION BEARING ELEVATION, INVERT ELEVATION, AND GROUNDWATER. IF SITE CONSTRAINTS PROHIBIT THIS RECOMMENDATION, THE FACILITY MAY BE LOCATED CLOSER TO A BUILDING SUBJECT TO THE REVIEW AND APPROVAL OF ECS. IT IS IMPORTANT TO NOTE THAT THE CLOSE PROXIMITY OF BUILDINGS WILL GENERALLY NOT NEGATIVELY IMPACT THE FUNCTIONALITY OF THE STORMWATER FACILITIES, BUT WATER INFILTRATION AND A REDUCED BUFFER MAY NEGATIVELY AFFECT THE BEARING CAPACITY OF ADJACENT BUILDINGS.

LIMITING ZONE REMEDIATION NOTES

- LIMITING ZONE REMEDIATION NOTES

 THE CONTRACTOR SHALL PROBE THE VIRGIN SOIL BENEATH THE EXCAVATED BOTTOM OF EACH
 OF THE SUB-SURFACE STORMWATER MANAGEMENT FACILITIES TO VERIFY THAT A MINIMUM OF 24
 INCHES IS PROVIDED TO THE LIMITING ZONE IN ACCORDANCE WITH APPENDIX C OF THE PA DEP
 STORMWATER BEST MANAGEMENT PRACTICES MANUAL.
- STORMWATER BEST MANAGEMENT PRACTICES MANUAL.

 2. IF A DEPTH OF 24 INCHES TO THE EXISTING BEDROCK IS NOT NATURALLY POSSIBLE, THE CONTRACTOR SHALL REMEDIATE THE MANTLE BELOW THE FACILITY IN ACCORDANCE WITH THE
- a.UNDER THE DIRECTION OF THE PROJECT GEO-TECHNICAL ENGINEER, THE CONTRACTOR SHALL OVER EXCAVATE THE BOTTOM OF THE FACILITY AN ADDITIONAL 24 INCHES.

 b. THE CONTRACTOR SHALL REMOVE ANY BEDROCK ENCOUNTERED WITHIN THE 24 INCHES.
 c. UNDER THE SUPERVISION AND DIRECTION OF THE PROJECT GEO-TECHNICAL ENGINEER, THE CONTRACTOR SHALL CONSTRUCT A SOIL MANTLE BETWEEN THE REMAINING BEDROCK AND
- THE BOTTOM OF THE PROPOSED SUB-SURFACE STORMWATER MANAGEMENT FACILITY TO A DEPTH OF 24 INCHES.

 3. THE COMPOSITION, COMPACTION AND MATERIAL SPECIFICATIONS SHALL BE IN ACCORDANCE

WITH THE RECOMMENDATIONS OF THE PROJECT GEO-TECHNICAL ENGINEER.

GRADING NOTES

- THE FINISHED FLOOR ELEVATIONS (FFE) SHOWN ON THE PLAN REPRESENT THE ELEVATION OF THE FIRST FLOOR INSIDE THE BUILDING.
 THE CONTRACTOR AND/OR BUILDER SHALL CONFIRM ALL ELEVATION RELATIONSHIPS PRIOR TO
- CONSTRUCTION. ANY DISCREPANCIES SHALL BE SUBMITTED TO RGS ASSOCIATES IMMEDIATELY.

 3. ALL FINISHED FLOOR ELEVATIONS MUST BE SET A MINIMUM OF TWO (2) FEET ABOVE THE 100 YEAR WATER SURFACE ELEVATION OF ANY ADJACENT STORMWATER FACILITY.

PRIOR PLANS OF RECORD/REFERENCE PLANS

HEILMANDALE ROAD SANITARY SEWER PROJECT FOR NORTH LEBANON
TOWNSHIP MUNICIPAL AUTHORITY
PREPARED BY MATTHEW & HOCKLEY ASSOCIATES, LTD.

DATED OCTOBER 4, 1991

SANITARY SEWER PLAN FOR LONG LANE FOR NORTH LEBANON

TOWNSHIP MUNICIPAL AUTHORITY

RECORDED AS PLAN BOOK 81, PAGE 186

PREPARED BY STECKBECK ENGINEERING ASSOCIATES

REVISED MARCH 13, 2015

PENNDOT HIGHWAY PLAN, COMMONWEALTH OF PENNSYLVANIA.

PREPARED BY STECKBECK ENGINEERING ASSOCIATES
DATED MAY 3, 2001

PRELIMINARY/FINAL SUBDIVISION AND LAND DEVELOPMENT PLAN
FOR LEBANON (72) DPP X, LLC. AND J.C. ASSOCIATES

WATE RLINE DRAWINGS (MAPS NL-137 & NL-137A)
PROVIDED BY CITY OF LEBANON AUTHORITY

DEPARTMENT OF TRANSPORTATION, DRAWINGS AUTHORIZING ACQUISITION OF RIGHT-OF-WAY, FOR STATE ROUTE 0072, SECTION 639 R/W STA. 146+50.00 TO STA. 166+00.00 RECORDED IN LEBANON COUNTY, PA IN FILE 7, SECTION A-5 DATE RECORDED SEPTEMBER 12, 1989

SEAL
SEAL
351 SHEETZ
351 SHEETZ WAY
CLAYSBURG, PA 16625
(814) 239-6013
AS NOTED
NO DATE

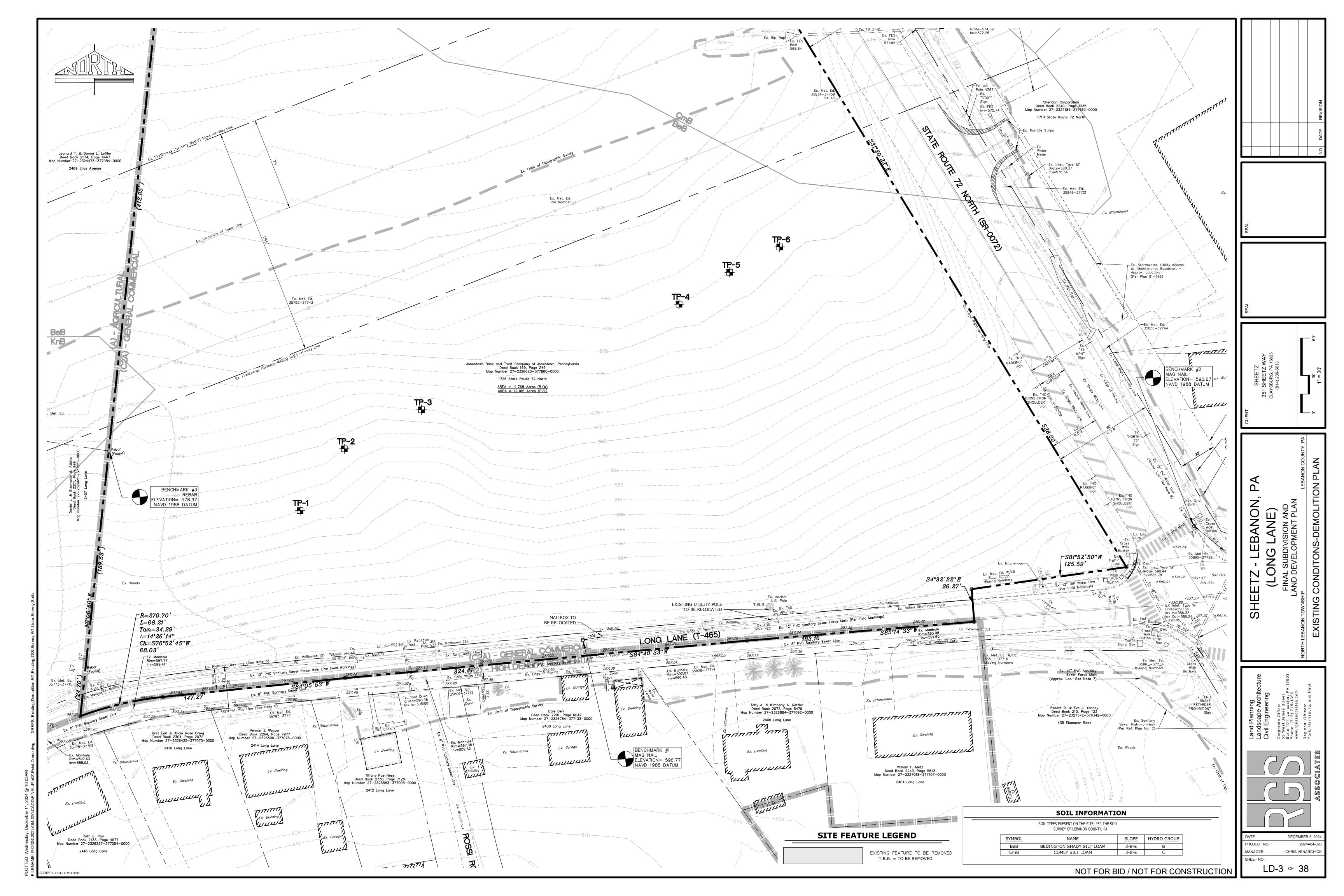
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ND DEVELOPMENT PLAN
LEBANON COUNT

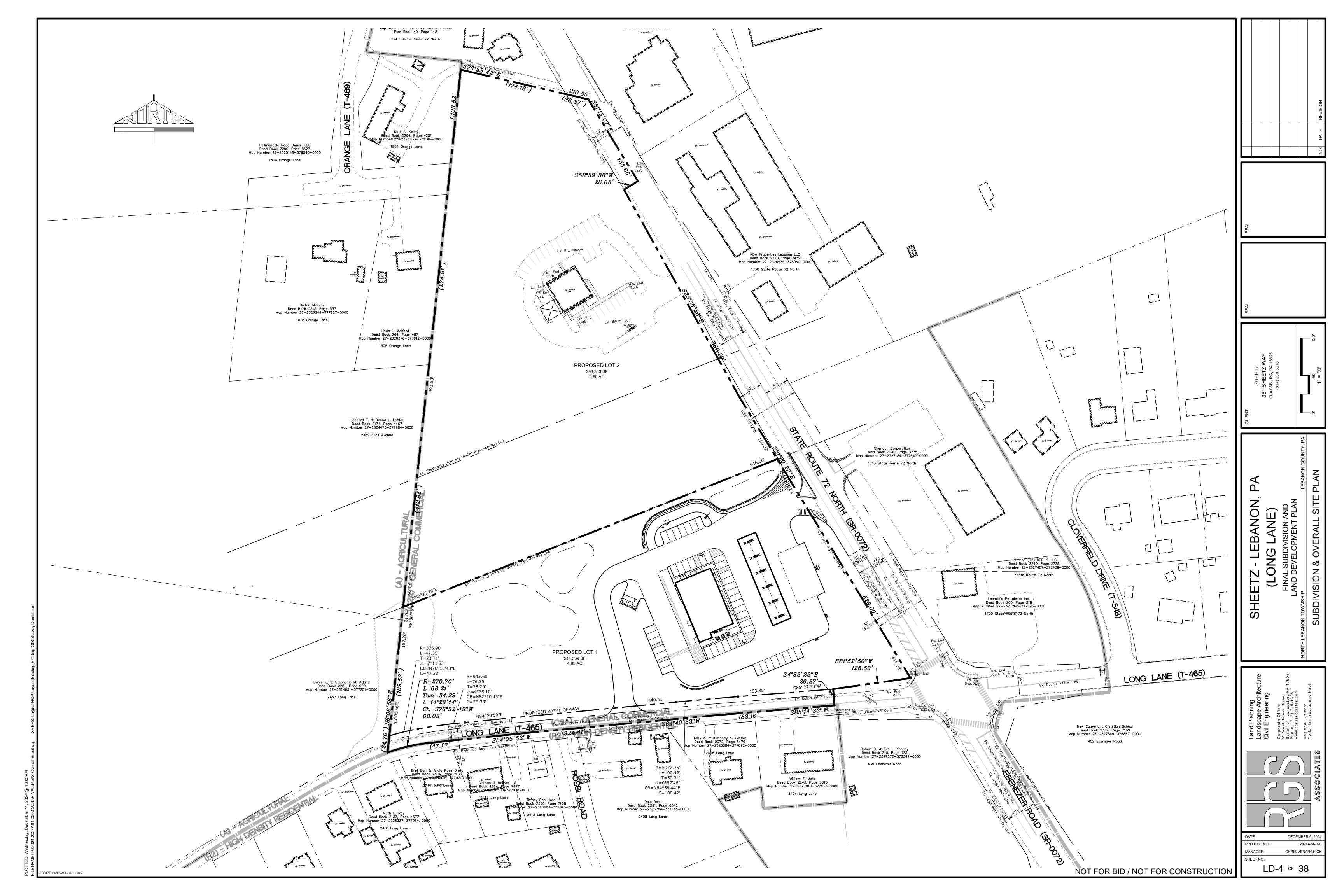
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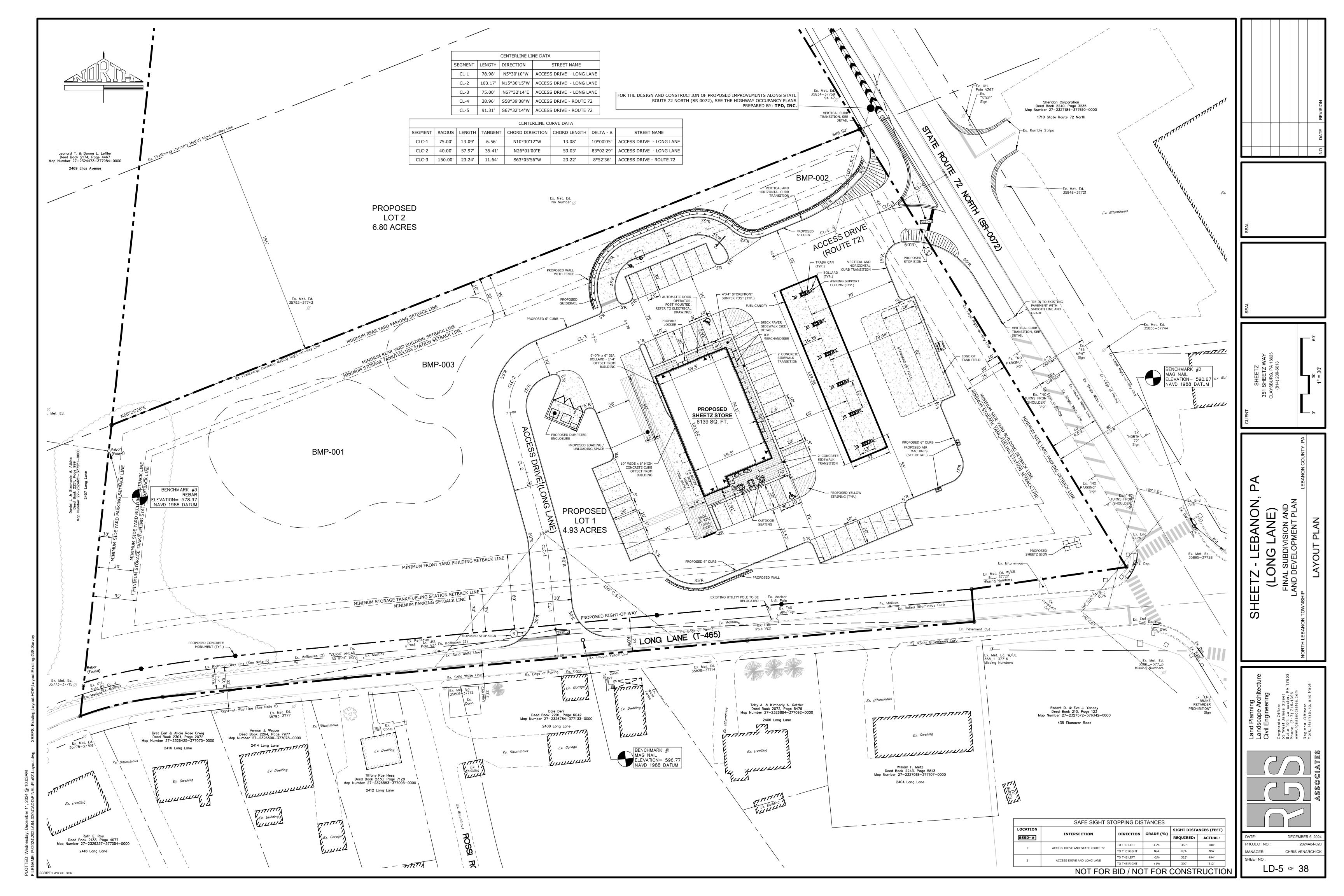
DATE: DECEMBER 6, 202
PROJECT NO.: 2024A84-02

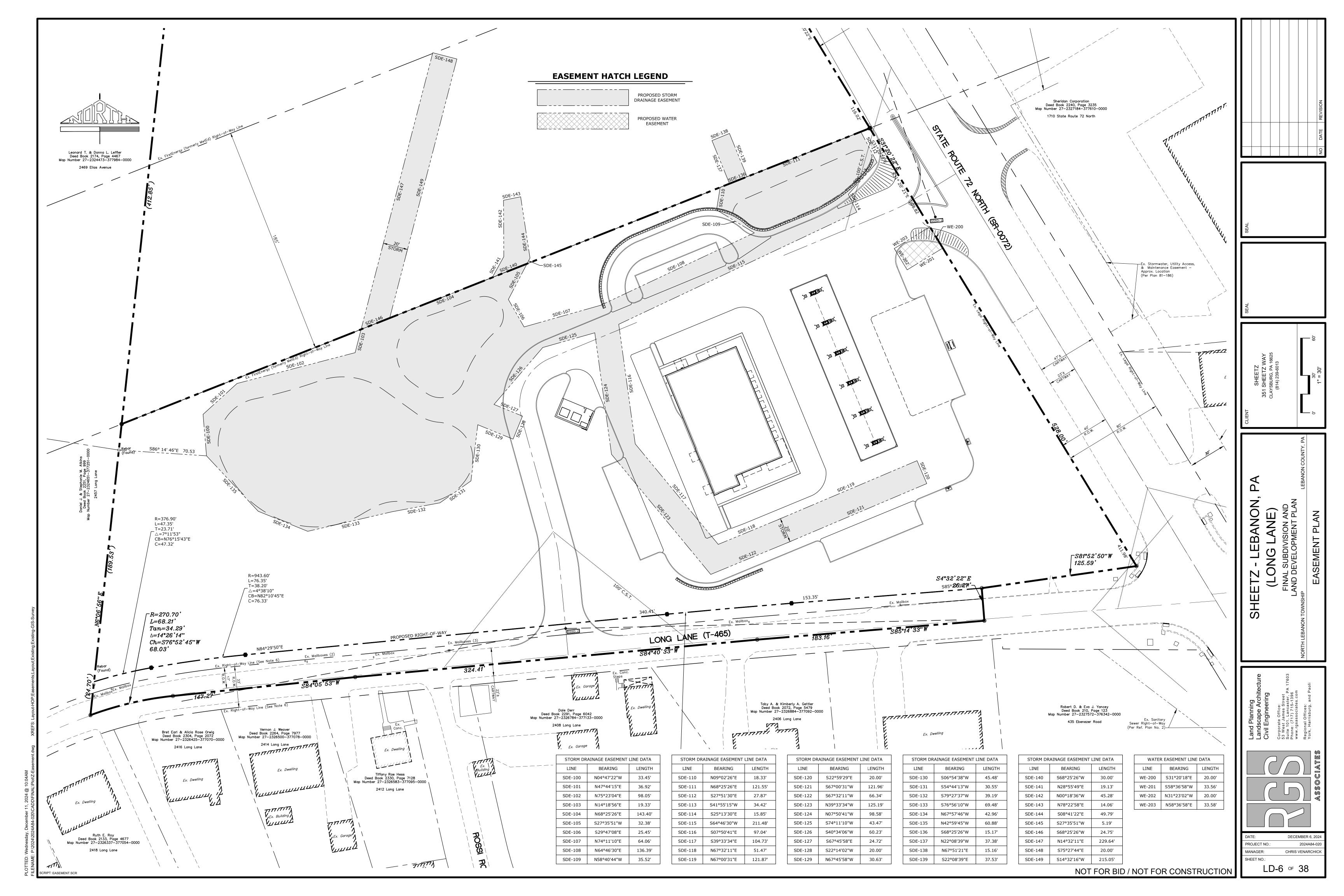
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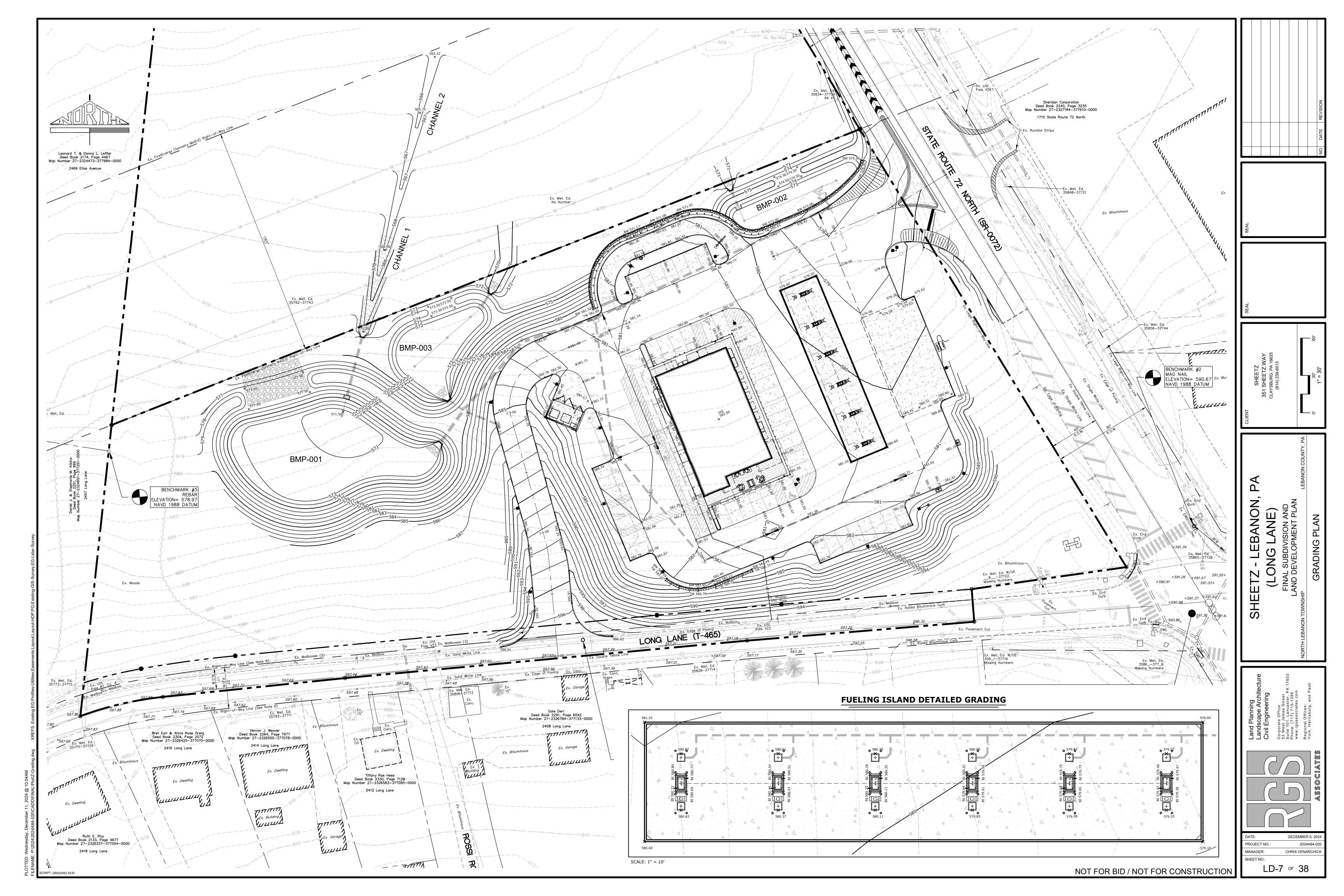
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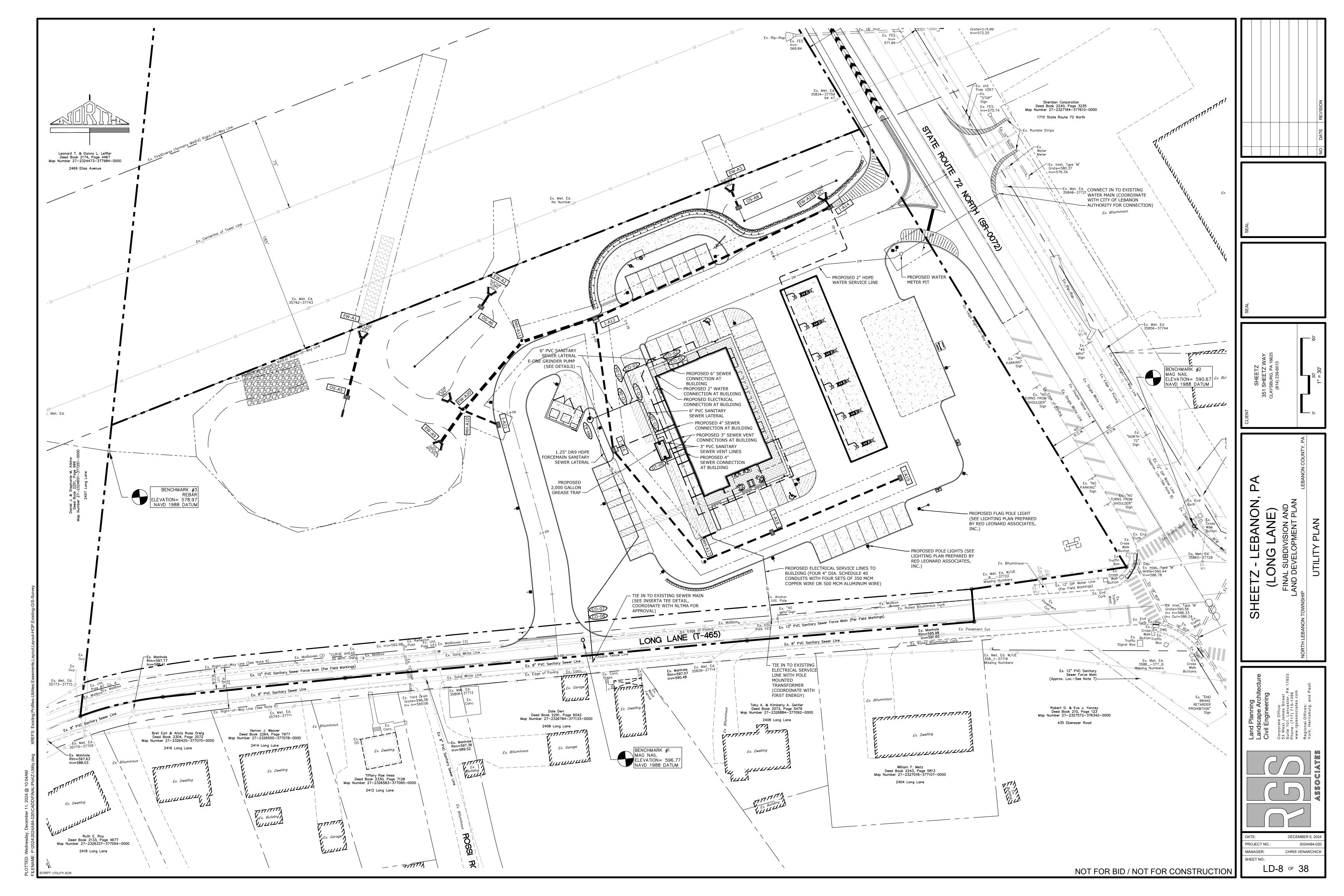












2. THE LANDSCAPE CONTRACTOR SHALL LOCATE AND VERIFY ALL UNDERGROUND UTILITIES PRIOR TO ANY PLANTING, AND SHALL FIFLD-ADJUST THE LOCATIONS OF TREES AND SHRUBS, IF NECESSARY, TO AVOID ANY CONFLICT WITH THESE UTILITIES. CONTACT THE LANDSCAPE ARCHITECT FOR APPROVAL OF ANY PROPOSED DESIGN CHANGES.

THIS PLAN IS FOR PLANTING INFORMATION ONLY. REFER TO GRADING, UTILITY, SITE LAYOUT AND SEDIMENT EROSION CONTROL PLANS FOR ALL RELATED INFORMATION.

4. ALL PLANTS AND SHRUBS SHALL BE AS SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE DETAILS AND COMMENTS NOTED ON THESE DRAWINGS 5. ALL PLANT MATERIALS SHALL BE SUBJECT TO APPROVAL OR REJECTION BY THE LANDSCAPE

ARCHITECT OR THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION PLANT MATERIALS INSTALLED WITHOUT PRIOR APPROVAL ARE SUBJECT TO REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE IF DETERMINED TO BE UNSATISFACTORY. REJECTED PLANT MATERIALS SHALL BE REMOVED IMMEDIATELY FROM THE PROJECT SITE. 6. PROPOSED LOCATIONS OF ALL NON-HERBACEOUS PLANT MATERIALS AND PLANTING BED OUTLINES

SHALL BE STAKED AND OUTLINED IN THE FIELD BY THE CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL VERIFY ALL GRADES, DIMENSIONS, AND EXISTING

CONDITIONS, AND SHALL REPORT ANY IDENTIFIED DISCREPANCIES TO THE LANDSCAPE ARCHITECT IF SITE WORK HAS BEEN MODIFIED AND DIFFERS FROM INFORMATION SHOWN ON THE APPROVED PLANS, AND POTENTIAL CHANGES TO THE PLANTING DESIGN ARE NECESSARY, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT FOR INSTRUCTIONS. 8. PROCEED WITH WORK ONLY WHEN PRESENT AND FORECASTED WEATHER CONDITIONS PERMIT

PLANTING WITHOUT EXCESSIVE SOIL COMPACTION AND/OR UNNECESSARY PLANT DAMAGE. 9. PLANT TREES, SHRUBS, AND OTHER PLANT MATERIALS AFTER FINISHED GRADES ARE ESTABLISHED,

AND BEFORE PLANTING ANY TURF AREAS UNLESS OTHERWISE INDICATED. 10. THE CONTRACTOR SHALL INSPECT ALL PLANTING AREAS BEFORE ANY TOPSOIL IS PLACED OR PLANTING BEGINS TO ENSURE ADEQUATE DRAINAGE EXISTS. IF ANY AREAS TO BE PLANTED SHOW EVIDENCE OF POOR DRAINAGE, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY FOR CORRECTIVE ACTION. ANY PLANT MATERIAL THAT DIES DUE TO POOR OR INADEOUATE DRAINAGE SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. REMOVE ANY EXCESS SOIL FROM PLANT ROOT FLARES. IF PRESENT.

12. LANDSCAPE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN WORKING IN AREAS OF EXISTING VEGETATION THAT IS TO REMAIN AND TO BE PROTECTED. IF SUCH VEGETATION IS INJURED OR DESTROYED DURING CONSTRUCTION, IT SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR WITH PLANTS OF A SIZE AND SPECIES AS DETERMINED BY THE LANDSCAPE ARCHITECT, AND SUCH REPLACEMENT SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER

13. PLANT QUANTITIES NOTED ON THE PLANT LIST SHOULD MATCH THE PLANT SYMBOLS SHOWN ON THE

FOUND BETWEEN THE QUANTITIES NOTED IN THE PLANT LIST AND THE DRAWING SYMBOLS 14. ALL AREAS DISTURBED BY PLANTING OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE, AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

DRAWINGS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL PLANT MATERIAL BASED UPON GRAPHIC

SYMBOL OUANTITIES AND SHALL CONTACT THE LANDSCAPE ARCHITECT IF A DIFFERENCE IS

ALL TREES SHALL HAVE BEEN NURSERY GROWN IN A CLIMATE SIMILAR TO THAT OF THE FINAL 2. ALL PLANTS SHALL HAVE A NORMAL GROWTH HABIT AND SHALL BE SOUND. HEALTHY, AND VIGOROUS. THEY SHALL BE FREE FROM DISEASE, INSECTS, INSECT EGGS, LARVAE, AND DEFECTS

SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT ALL PLANTING SHALL BE PERFORMED IN CONFORMANCE WITH GOOD NURSERY AND LANDSCAPE 4. REOUIREMENTS FOR PLANT MEASUREMENTS, BRANCHING, GRADING, QUALITY, AND BALLING AND

BURLAPPING SHALL FOLLOW THE CODE OF STANDARDS AS RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC., IN THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1. CURRENT EDITION, AS AMENDED, DO NOT PRUNE TO ATTAIN REQUIRED SIZES. 5. IF FORMAL PLANTING ARRANGEMENTS OR A CONSISTENT ORDER OF PLANTS IS INDICATED ON THE

DRAWINGS, SELECT STOCK FOR UNIFORM HEIGHT AND SPREAD. 6. ALL STREET TREES AND SCREENING PLANT MATERIALS SHALL BE INSTALLED DURING THE FIRST PLANTING SEASON FOLLOWING COMPLETION OF OTHER SITE WORK. 7. THE CONTRACTOR SHALL MAINTAIN ALL PLANTINGS PRIOR TO THE BEGINNING OF THE GUARANTEE PERIOD BY WATERING, FERTILIZING, DISEASE CONTROL, PRUNING, AND WEEDING TO KEEP THE

COMPLETED WORK AND/OR UNCOMPLETED WORK IN A CLEAN AND NEAT CONDITION AT ALL TIMES.

ALL MATERIAL SHALL BE GUARANTEED BY INSTALLER FOR THE DURATION OF 18 MONTHS FOLLOWING THE DATE OF PLANTING, OR 12 MONTHS AFTER FINAL INSPECTION AND ACCEPTANCE OF THE WORK, WHICHEVER IS GREATER. PLANTS SHALL BE ALIVE AND IN SATISFACTORY GROWING CONDITION AT THE END OF THE GUARANTEE PERIOD

2. AT TIME OF PLANTING, REPLACEMENT TREES SHALL BE A MINIMUM TRUNK CALIPER OF TWO (2) INCHES AT A HEIGHT OF SIX (6) INCHES ABOVE FINISHED GRADE AND LOCATED WITHIN UNBUILDABLE SECTIONS OF THE SITE.

3. THE CONTRACTOR SHALL GUARANTEE THAT PLANTS SHALL BE IN VIGOROUS AND THRIVING CONDITION AT THE END OF THE GUARANTEE PERIOD. SHOULD ANY PLANTS APPEAR TO BE IN POOR HEALTH OR LACK NORMAL GROWTH HABIT, AS DETERMINED BY THE LANDSCAPE ARCHITECT, THEY SHALL BE REMOVED AT ONCE AND REPLACED.

4. DURING THE TIME BETWEEN THE INSTALLATION OF PLANTS AND THE BEGINNING OF THE GUARANTEE PERIOD, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE SUPERINTENDENCE OF THE PLANTINGS. SHOULD ANY PLANT BE STOLEN OR OTHERWISE REMOVED, ANY SUCH PLANT SHALL BE REPLACED BY THE CONTRACTOR. THE GUARANTEE PERIOD WILL BEGIN WHEN ALL PLANTS ARE INSTALLED AS SHOWN AND SPECIFIED IN THESE PLANS.

WITHIN THE GUARANTEE PERIOD, THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY HEALTHY VIGOROUS GROWING CONDITIONS OF PLANTS. 6. INSPECTION TO DETERMINE WORK COMPLETION FOR BEGINNING THE ONE-YEAR GUARANTEE PERIOD

WILL BE MADE BY THE OWNER AND LANDSCAPE ARCHITECT UPON WRITTEN NOTICE REQUESTING SUCH INSPECTION SUBMITTED BY THE CONTRACTOR AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO THE ANTICIPATED INSPECTION DATE. AFTER INSPECTION, THE CONTRACTOR WILL BE NOTIFIED OF ANY DEFICIENCIES TO BE CORRECTED.

8. IF DEFICIENCIES ARE NOTED, A SECOND INSPECTION TO DETERMINE WORK COMPLETION FOR BEGINNING THE ONE-YEAR GUARANTEE PERIOD WILL BE MADE BY THE OWNER AND LANDSCAPE ARCHITECT UPON WRITTEN NOTICE REQUESTING SUCH INSPECTION SUBMITTED BY THE CONTRACTOR AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO THE ANTICIPATED INSPECTION DATE. 9. ONCE ANY AND ALL DEFICIENCIES ARE ADDRESSED, THE CONTRACTOR WILL BE NOTIFIED OF THE

DATE THAT THE WORK HAS BEEN APPROVED FOR BEGINNING THE GUARANTEE PERIOD. 10. ONE-YEAR FROM THE FROM THE START OF THE PLANT GUARANTEE PERIOD, OR 18 MONTHS AFTER PLANTING, WHICHEVER IS GREATER, THE CONTRACTOR, OWNER AND LANDSCAPE ARCHITECT WILL INSPECT THE SITE TO LOCATE ANY PLANTS THAT ARE NOT IN A VIGOROUS AND THRIVING CONDITION. A SITE INSPECTION REPORT WILL BE ISSUED TO THE CONTRACTOR. THE CONTRACTOR WILL HAVE 30 DAYS TO REPLACE ANY PLANTS IDENTIFIED AS FAILING THE GUARANTEE STANDARD.

NOTES IN THIS SECTION APPLY TO ALL PLANTING AREAS OTHER THAN LANDSCAPED PCSM BMPS. SOIL PREPARATION REQUIREMENTS FOR PCSM BMPS CAN BE FOUND ON SHEET SW-34. 2. PRIOR TO PLANTING, THE LANDSCAPE CONTRACTOR SHALL OBTAIN, AND FORWARD TO THE LANDSCAPE ARCHITECT, SOIL AGRONOMY TESTING REPORTS FROM AN APPROVED SOILS LABORATORY SUCH AS THE PENNSYLVANIA STATE UNIVERSITY'S AGRICULTURAL ANALYTICAL SERVICES LABORATORY. TESTS SHALL BE COMPLETED FOR EACH EXISTING SOIL TYPE AND FOR EACH BATCH OF IMPORTED TOPSOIL. TESTS TO INCLUDE SOIL FERTILITY, PARTICLE SIZE, SAND SEIVE ANALYSIS, ORGANIC MATTER AND SOLUBLE SALTS. CONTRACTOR TO REQUEST SOIL AMENDMENT RECOMMENDATIONS FOR EACH CATEGORY OF TURF AND/OR LANDSCAPE PLANT TO BE INSTALLED IN

3. ALL SOIL AMENDMENTS SHALL BE INSTALLED PER THE SOIL AGRONOMY REPORT, AND SHALL BE PROVIDED BY THE LANDSCAPE CONTRACTOR. 4. PERENNIAL, ANNUAL AND BULB PLANTING AREAS SHALL HAVE AMENDED SOILS AS FOLLOWS

FOR EACH 100 S.F. AREA:

6 CU. FT. OF CLEAN COMPOST 5-6 LBS, MILORGANITE OR EQUAL 2-3 LBS. OF 0-20-20 FERTILIZER

5. AGRIFORM 20-10-5 PLANTING TABLETS OR EQUIVALENT SHALL BE USED FOR ALL TREE AND SHRUB PLANTINGS PER THE MANUFACTURER'S SPECIFICATIONS. TABLETS ARE NOT A REPLACEMENT FOR AMENDMENTS REQUIRED BY THE SOIL AGRONOMY TEST RESULTS. 6. APPLY AMENDMENTS ON-SITE, AND MIX SOIL TO FULLY ADDRESS ALL EXISTING SOIL DEFICIENCIES.

DO NOT APPLY AMENDMENTS NOR TILL IF EXISTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR 7. LANDSCAPE PLANTING AREAS SHALL BE FREE OF ANY DELETERIOUS MATERIAL OR LIQUID SUCH AS PAINT, PAINT WASHOUT, CONCRETE SLURRY, CONCRETE RUBBLE, CEMENT, PLASTER, OILS, GASOLINE, DIESEL FUEL, PAINT THINNER, TURPENTINE TAR, ROOFING COMPOUND, ACID, AND STONES LARGER

THAN 3" IN ANY DIRECTION 8. TOPSOIL SHALL BE PLACED AT A MINIMUM DEPTH OF 6".

9. IN ALL PLANTING AREAS, IF INSUFFICIENT TOPSOIL IS PRESENT PRIOR TO PLANTING, THE SITE CONTRACTOR SHALL PROVIDE AND PLACE THE REQUIRED TOPSOIL AT THE LANDSCAPE CONTRACTOR'S REQUEST. THE TOPSOIL SHALL BE ROUGH GRADED BY THE SITE CONTRACTOR AND FINISH GRADED BY THE LANDSCAPE CONTRACTOR.

10. CONTRACTOR SHALL KILL OFF ANY EXISTING TURF AND UNWANTED VEGETATION WITHIN PROPOSED BED LIMITS. COMPLETE REMOVAL OF TURF BY MEANS OF A SOD CUTTER OR SCUFFING IS AN ACCEPTABLE ALTERNATIVE METHOD TO HERBICIDE APPLICATION. IF HERBICIDE IS NOT USED, THE CONTRACTOR SHALL COMPLETELY REMOVE ALL EXISTING PLANT ROOTS.

THE CONTRACTOR MAY APPLY A PRE-EMERGENT HERBICIDE PER THE MANUFACTURERS SPECIFICATIONS TO THE ENTIRE PLANTING BED FOR CONTROL OF WEED GERMINATION. . A LAYER OF 3" THICK DOUBLE SHREDDED HARDWOOD MULCH DYED BROWN OR BLACK SHALL BE

APPLIED ACROSS THE ENTIRE PLANTING BED AREA UNLESS OTHERWISE INDICATED ON THE PLAN. MULCH SHALL NOT COVER THE CROWNS OF ANY HERBACEOUS PLANTS, NOR THE ROOT FLARES OF PLACE "DEWITT 15 YEAR WEED BARRIER" WOVEN POLYPROPYLENE OR APPROVED EQUAL IN ALL PLANTED BEDS AND AT EACH TREE RING.

GRASS SEED SHALL BE FRESH, CLEAN, DRY, NEW-CROP SEED COMPLYING WITH AOSA'S "RULING FOR

TESTING SEEDS" FOR PURITY AND GERMINATION TOLERANCES. TURFGRASS SOD SHALL COMPLY WITH 'SPECIFICATIONS FOR TURFGRASS SOD MATERIALS' IN TPI GUIDELINE SPECIFICATIONS TO TURFGRASS SODDING. TURFGRASS SOD SHALL BE A VIABLE SOD OF UNIFORM DENSITY, COLOR, AND TEXTURE. IT SHALL BE STRONGLY ROOTED AND CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT. RECOMMENDED TIME OF TURFGRASS SEEDING IS SEPTEMBER 1ST TO OCTOBER 15TH. WHERE

SPRING SEEDINGS ARE NECESSARY, SEED NO LATER THAN APRIL 1ST FOR BEST RESULTS. SOW RECOMMENDED SEED MIXTURE ADAPTED TO USE IN CLIMATIC CONDITIONS OF THE SPECIFIC SITE AREA. PRIOR TO SEEDING AND/OR SODDING, REMOVE ANY EXISTING VEGETATION FROM PROPOSED LAWN

EXCESS DEAD VEGETATION SHOULD BE TURNED UNDER, IF THE SITE IS NOT TOO WET FOR TILLING WITHOUT EXCESSIVE SOIL COMPACTION. IF TOPSOIL HAS BEEN DEPLETED OR REMOVED IN THE AREA TO BE SEEDED OR SODDED, PROVIDE SOIL AMENDMENTS PER THE SOIL AGRONOMY REPORT

DIVIDE TOTAL SEED QUANTITY INTO TWO EQUAL LOTS, SOWING ONE LOT IN ONE DIRECTION, AND THE SECOND LOT AT RIGHT ANGLES TO THE FIRST WITH A MECHANICAL SEEDER OR SPREADER. EXTRA CARE SHALL BE TAKEN TO FLIMINATE DEPRESSIONS OR AIR POCKETS BY ROLLING OR TAMPING LAWN BASE BEFORE INSTALLATION. ALL SOD MUST BE DELIVERED AND INSTALLED WITHIN 36 HOURS OF BEING CUT. SOD SHALL BE LAID SMOOTHLY, EDGE TO EDGE WITH STAGGERED JOINTS.

IMMEDIATELY AFTER INSTALLATION. THE SOD SHALL BE WATERED TO A DEPTH OF 4" INTO THE SOIL. 10. MULCHING WITH STRAW, HYDROMULCH, OR FIBER MATS IS RECOMMENDED TO PROTECT SEED FROM DRYING OUT OR WASHING AWAY. HEAVY MULCHES SHOULD BE REMOVED FROM THE AREA WITHIN A FEW DAYS AFTER SEED GERMINATION.

1. BOUNDARIES OF NEWLY SEEDED AREAS SHALL BE WELL DEFINED WITH SIGNS OR OTHER MARKERS TO DETER INTRUSION UNTIL LAWN AREAS ARE FULLY ESTABLISHED. 12 CONTRACTOR IS RESPONSIBLE FOR TURE MAINTENANCE LINTIL SATISFACTORY TURE IS ESTABLISHED AS DETERMINED BY THE LANDSCAPE ARCHITECT. MAINTENANCE TO INCLUDE WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, REPLANTING, AND PERFORMING OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE TURF, ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS AND REMULCH TO PRODUCE A UNIFORMLY SMOOTH TURF. PROVIDE MATERIALS AND

INSTALLATION THE SAME AS THOSE USED IN THE ORIGINAL INSTALLATION. a. FILL IN AS NECESSARY SOIL SUBSIDENCE THAT MAY OCCUR BECAUSE OF SETTLING OR OTHER PROCESSES. REPLACE MATERIALS AND TURF DAMAGED OR LOST IN AREAS OF SUBSIDENCE.

b. IN AREAS WHERE MULCH HAS BEEN DISTURBED BY WIND OR MAINTENANCE OPERATIONS, ADD NEW MULCH AND ANCHOR AS REQUIRED TO PREVENT DISPLACEMENT.

c. APPLY TREATMENTS AS REQUIRED TO KEEP TURF AND SOIL FREE OF PESTS AND PATHOGENS OR DISEASE. USE INTEGRATED PEST MANAGEMENT PRACTICES WHENEVER POSSIBLE TO MINIMIZE THE USE OF PESTICIDES AND REDUCE HAZARDS. 3. WATERING: INSTALL AND MAINTAIN TEMPORARY PIPING, HOSES, AND TURF-WATERING EQUIPMENT

TO CONVEY WATER FROM SOURCES AND TO KEEP TURF UNIFORMLY MOIST TO A DEPTH OF 4 INCHES. a, SCHEDULE WATERING TO PREVENT WILTING, PUDDLING, EROSION, AND DISPLACEMENT OF SEED OR MULCH. LAY OUT TEMPORARY WATERING SYSTEM TO AVOID WALKING OVER MUDDY OR NEWLY PLANTED AREAS.

b. WATER TURF WITH FINE SPRAY AT A MINIMUM RATE OF 1 INCH PER WEEK UNLESS RAINFALL PRECIPITATION IS ADEQUATE.

14. MOW TURF AS SOON AS TOP GROWTH IS TALL ENOUGH TO CUT. REPEAT MOWING TO MAINTAIN SPECIFIED HEIGHT WITHOUT CUTTING MORE THAN ONE-THIRD OF GRASS HEIGHT. REMOVE NO MORE THAN ONE-THIRD OF GRASS-LEAF GROWTH IN INITIAL OR SUBSEQUENT MOWINGS. DO NOT DELAY MOWING UNTIL GRASS BLADES BEND OVER AND BECOME MATTED. DO NOT MOW WHEN GRASS IS

15. TURF POST-FERTILIZATION: APPLY FERTILIZER AFTER INITIAL MOWING AND WHEN GRASS IS DRY. USE FERTILIZER THAT PROVIDES ACTUAL NITROGEN OF AT LEAST 1 LB/1000 SQ. FT. TO TURF AREA.

16. SATISFACTORY TURF - TURF INSTALLATIONS SHALL MEET THE FOLLOWING CRITERIA AS DETERMINED BY LANDSCAPE ARCHITECT/ENGINEER: AT END OF MAINTENANCE PERIOD. A HEALTHY, UNIFORM, CLOSE STAND OF GRASS HAS BEEN ESTABLISHED, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING 70 PERCENT OVER ANY 10 SQ. FT. AND BARE SPOTS NOT EXCEEDING 5

7. CONTRACTOR TO USE SPECIFIED MATERIALS TO REESTABLISH TURF THAT DOES NOT COMPLY WITH REQUIREMENTS, AND CONTINUE MAINTENANCE UNTIL TURF IS SATISFACTORY.

PRIOR TO FINAL SEEDING/PLANTING OF THE STORMWATER MANAGEMENT FACILITIES, THE CONTRACTOR SHALL PROVIDE POST-CONSTRUCTION INFILTRATION TESTING IN THE BIO-RETENTION FACILITIES TO DETERMINE ACTUAL DEWATERING RATES. RESULTS TO BE PROVIDED TO PROJECT'S LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER WHO WILL THEN RECOMMEND ANY REOUIRED ADJUSTMENTS TO PROPOSED PLANTINGS. FINAL PLANT SPECIES SELECTIONS MAY BE MODIFIED AS NECESSARY BASED UPON ACTUAL FIELD-CONDITION INFILTRATION RATES.

PLUGS SHALL ONLY BE INSTALLED WHEN THEY ARE IN ACTIVE GROWTH. PROPER INSTALLATION PERIODS VARY BY SPECIES. CONSULT PLANT SUPPLIER FOR GUIDANCE ON PLANTING PERIODS AND TIMING. INSTALLATION OUTSIDE OPTIMAL PLANTING PERIODS COULD RESULT IN PLANT LOSS. PROCEED WITH WORK ONLY WHEN PRESENT AND FORECASTED WEATHER CONDITIONS PERMIT PLANTING WITHOUT EXCESSIVE SOIL COMPACTION AND/OR UNNECESSARY PLANT DAMAGE. AVOID PLANTING IN EXCESSIVELY MOIST CONDITIONS UNLESS PLANTING IN HYDRIC SOILS.

4. CONTRACTOR TO LAYOUT AND INSTALL PLUGS AS SOON AS POSSIBLE FOLLOWING PLANT DELIVERY IF PLANTING MUST BE DELAYED DUE TO WEATHER OR CONSTRUCTION DELAYS, MOVE PLUGS TO A PROTECTED AND SHADED AREA. IRRIGATE AS NEEDED.

THOROUGHLY WATER PLUG TRAYS PRIOR TO PLUG REMOVAL AND PLANTING. PLUG SPECIES ARE TO BE DISTRIBUTED ACROSS THE FACILITY AT THE SPECIFIED SPACING, AND SHALL BE COMBINED WITH OTHER SPECIES (IF SO NOTED) IN A RANDOM FASHION. 8. FOR PLANTING AREAS TO BE MULCHED, APPLY MULCH PRIOR TO INSTALLATION OF THE PLUGS.

9. WHERE APPLICABLE, SECURE EROSION CONTROL MATTING PRIOR TO PLANTING. PLANT PLUGS DIRECTLY THROUGH THE EROSION CONTROL MATTING. 10. CONTRACTOR SHALL ONLY REMOVE PLUGS FROM TRAYS BY PUSHING PLANTS UP THROUGH THE

BOTTOM OF THE LINER. DO NOT PULL THE PLANTS BY THEIR FOLIAGE. 11. CONTRACTOR SHALL NOT 'TEASE' THE PLUG ROOT SYSTEMS APART AS IS CUSTOMARY WITH OTHER CONTAINERIZED PLANTS WITH DENSE ROOT SYSTEMS.

12. PLUGS SHALL BE PLANTED SO THAT THE TOP OF THE PLUG SOIL MEDIA IS FLUSH WITH THE FINISHED GRADE. LIGHTLY TAMP SURROUNDING SOIL TO INCREASE SOIL-ROOT CONTACT AND TO MINIMIZE FROST HEAVING POTENTIAL.

13. PLUGS SHALL BE WATERED IMMEDIATELY FOLLOWING PLANTING TO REDUCE AIR POCKETS AND TO MAXIMIZE CONTACT BETWEEN THE PLUG ROOTS AND PREPARED SOIL.

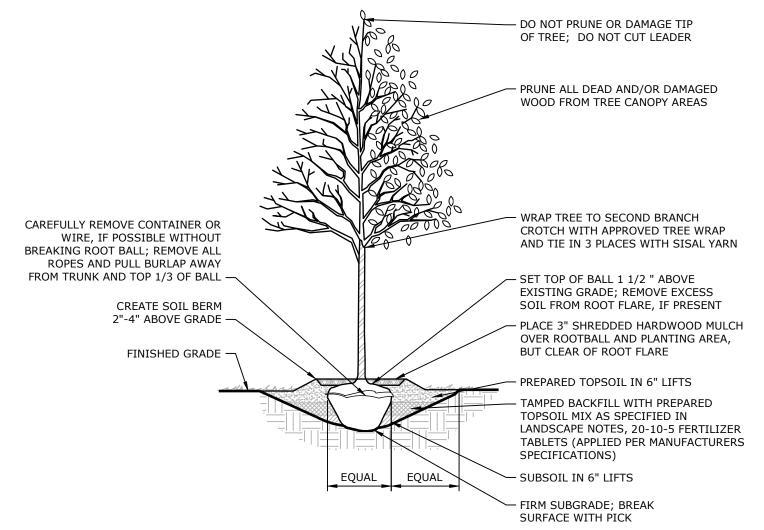
14. MONITOR NEW PLANTINGS FOR SIGNS OF DISEASES, PESTS AND WATER STRESS. 15. KEEP NEW PLANTINGS FREE OF UNDESIRABLE AND INVASIVE SPECIES.

16. CONTRACTOR SHALL REMOVE ALL CUT VEGETATION TO ENSURE STORMWATER MANAGEMENT CONTROL STRUCTURES ARE KEPT CLEAR AND FREE OF DEBRIS

PLANT SCHEDULE

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTA
STREE	ET TREE	<u>S</u>			
GT	7	Gleditsia triacanthos inermis	Thornless Honey Locust	2" - 2.5" Cal.	B&B
ZS	6	Zelkova serrata	Japanese Zelkova	2" - 2.5" Cal.	B&B
SHRU	BS				
BM	6	Buxus microphylla 'Little Missy'	Little Missy Littleleaf Boxwood	1 gal.	Cont.
LMV	20	Liriope muscari 'Variegata'	Variegated Lilyturf	3.5"	Pot
NF	10	Nepeta x 'Walker's Low'	Walker's Low Catmint	12" - 18"	Pot
PL	7	Prunus laurocerasus 'Otto Luyken'	Otto Luyken English Laurel	3 gal.	Cont.

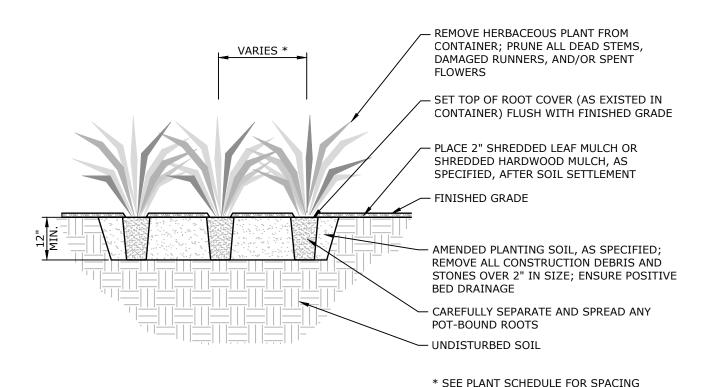


I. ALL TREES SHALL HAVE BEEN NURSERY GROWN IN A CLIMATE SIMILAR TO THAT OF THE FINAL PLANTING SITE. 2. ALL TREES SHALL HAVE A NORMAL GROWTH HABIT AND SHALL BE SOUND, HEALTHY AND VIGOROUS; THEY SHALL BE FREE FROM DISEASE, INSECTS, INSECT EGGS, AND LARVAE

3. ALL PLANTING SHALL BE PERFORMED IN CONFORMANCE WITH GOOD NURSERY AND LANDSCAPE PRACTICE. 4. REOUIREMENTS FOR TREE MEASUREMENTS, BRANCHING, GRADING, OUALITY, BALLING, AND BURLAPPING SHALL FOLLOW THE CODE OF STANDARDS RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN INC., IN THE AMERICAN STANDARD FOR NURSERY STOCK, ANSIZ60, CURRENT EDITION, AS AMENDED. 5. SEE LANDSCAPE NOTES FOR REQUIRED SOIL TESTING, PREPARATION AND AMENDMENT.

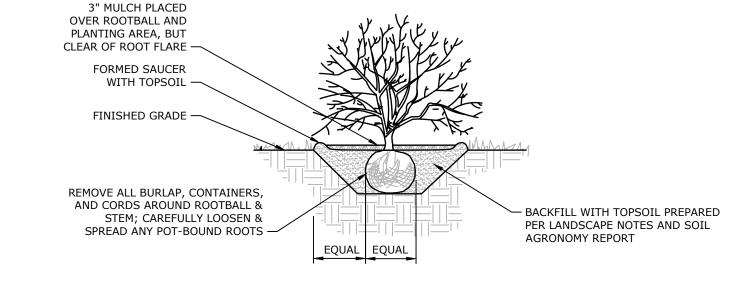
TYPICAL DECIDUOUS TREE PLANTING

NOT TO SCALE



TYPICAL HERBACEOUS PERENNIAL PLANTING

NOT TO SCALE



SET PLANTS AT SAME FINISHED GRADE AS GROWN IN THE NURSERY

. ALL SHRUBS SHALL HAVE BEEN NURSERY GROWN IN A CLIMATE SIMILAR TO THAT OF THE FINAL PLANTING SITE. . ALL SHRUBS SHALL HAVE A NORMAL GROWTH HABIT AND SHALL BE SOUND, HEALTHY AND VIGOROUS; THEY SHALL BE

FREE FROM DISEASE, INSECTS, INSECT EGGS, AND LARVAE. 4. ALL PLANTING SHALL BE PERFORMED IN CONFORMANCE WITH GOOD NURSERY AND LANDSCAPE PRACTICE.

5. REQUIREMENTS FOR SHRUB MEASUREMENTS, BRANCHING, GRADING, QUALITY, BALLING, AND BURLAPPING OF SHRUBS SHALL FOLLOW THE CODE OF STANDARDS RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC., IN THE

AMERICAN STANDARD FOR NURSERY STOCK, ANSIZ60, CURRENT EDITION, AS AMENDED. 5. SEE LANDSCAPE NOTES FOR REQUIRED SOIL TESTING, PREPARATION AND AMENDMENT.

TYPICAL SHRUB PLANTING

NOT TO SCALE

PLUG PLANTING LIST

PERENNIALS (BOTANICAL NAME - COMMON NAME) AGASTACHE FOENICULUM - BLUE GIANT HYSSOP ASCLEPIAS INCARNATA - SWAMP MILKWEED ASTER NOVAE-ANGLIAE - NEW ENGLAND ASTER ASTER NOVI-BELGII - NEW YORK ASTER COREOPSIS TRIPTERIS - TALL TICKSEED • EUPATORIUM FISTULOSUM - TRUMPETWEED EUPATORIUM PERFOLIATUM - BONESET EUPATORIUM PURPUREUM - JOE PYE WEED HELENTUM AUTUMNALE - COMMON SNEEZEWEED HELIOPSIS HELIANTHOIDES - OXEYE SUNFLOWER IRIS VERSICOLOR - HARLEOUIN BLUEFLAG IRIS VIRGINICA - VIRGINIA IRIS LOBELIA CARDINALIS - CARDINAL FLOWER LOBELIA SIPHILITICA - BLUE LOBELIA MONARDA BRADBURIANA - EASTERN BEEBALM MONARDA DIDYMA 'JACOB CLINE' - SCARLET BEEBALM PYCNANTHEMUM MUTICUM - CLUSTERED MOUNTAINMINT SENECIO AUREUS - GOLDEN RAGWORT VERBANA HASTATA - BLUE VERVAIN

GRASSES AND SEDGES (BOTANICAL NAME - COMMON NAME) CAREX BICKNELLI - BICKNELL'S SEDGE

VERNONIA NOVEBORACENSIS - NEW YORK IRONWEED

 CAREX EBURNEA - BRISTLELEAF SEDGE CAREX CHEROKEENSIS - CHEROKEE SEDGE CAREX EMORYI - EMORY'S SEDGE CAREX SCOPARIA - BLUNT BROOM SEDGE CAREX VULPINOIDEA - FOX SEDGE CHASMANTHIUM LATIFOLIUM - INDIAN WOOD OATS ELYMUS HYSTRIX - BOTTLEBRUSH GRASS JUNCUS EFFUSUS - COMMON RUSH JUNCUS TENUIS - POVERTY RUSH

 PANICUM VIRGATUM - SWITCHGRASS SCHIZACHYRIUM SCOPARIUM - LITTLE BLUESTEM 1. THE REQUIRED PLUG COUNT IS BASED ON PLUGS BEING

PLANTED IN A GRID PATTERN AT 24" ON-CENTER WITHIN THE BASIN BOTTOM. 2. 30% OF BASIN PLUG PLANTINGS SHALL BE COMPRISED OF A MINIMUM OF 10 PERENNIAL SPECIES FROM THE PROVIDED SPECIES LIST. THE REMAINING 70% OF BASIN PLUG PLANTINGS SHALL BE COMPRISED OF 6 GRASS AND

3. CONTRACTOR SHALL CONTACT RGS LANDSCAPE ARCHITECT FOR ALTERNATE PLUG SPECIES SHOULD PROVIDED SPECIES NOT BE AVAILABLE. 4. CONSULT PLANT SUPPLIER FOR GUIDANCE ON THE

SEDGE SPECIES FROM THE PROVIDED SPECIES LIST.

PLANTING PERIODS AND TIMING. INSTALLATION OUTSIDE OPTIMAL PLANTING PERIODS COULD RESULT IN PLANT 5. PROCEED WITH WORK ONLY WHEN PRESENT AND FORECASTED WEATHER CONDITIONS PERMIT PLANTING WITHOUT EXCESSIVE SOIL COMPACTION AND/OR UNNECESSARY PLANT DAMAGE. AVOID PLANTING IN

EXCESSIVELY MOIST CONDITIONS UNLESS PLANTING IN

HYDRIC SOILS. 6. CONTRACTOR TO LAYOUT AND INSTALL PLUGS AS SOON AS POSSIBLE FOLLOWING PLANT DELIVERY TO SITE. 7. IF PLANTING MUST BE DELAYED DUE TO WEATHER OR CONSTRUCTION DELAYS, MOVE PLUGS TO A PROTECTED

AND SHADED AREA. IRRIGATE AS NEEDED. 8. THOROUGHLY WATER PLUG TRAYS PRIOR TO PLUG REMOVAL AND PLANTING. 9. PLUG SPECIES ARE TO BE DISTRIBUTED ACROSS THE FACILITY AT THE SPECIFIED SPACING IN A RANDOM

FASHION 10. CONTRACTOR SHALL ONLY REMOVE PLUGS FROM TRAYS BY PUSHING PLANTS UP THROUGH THE BOTTOM OF THE LINER. DO NOT PULL THE PLANTS BY THEIR FOLIAGE.

PLUG INSTALLATION NOTES 11. CONTRACTOR SHALL NOT 'TEASE' THE PLUG ROOTS SYSTEMS APART AS IS CUSTOMARY WITH OTHER

CONTAINERIZED PLANTS WITH DENSE ROOT SYSTEMS. 12. PLUGS SHALL BE PLANTED SO THAT THE TOP OF THE PLUG SOIL MEDIA IS FLUSH WITH THE FINISHED GRADE. LIGHTLY TAMP THE SURROUNDING SOIL TO INCREASE SOIL-ROOT CONTACT AND TO MINIMIZE FROST HEAVING POTENTIAL. 13. PLUGS SHALL BE WATERED IMMEDIATELY FOLLOWING

PLANTING TO REDUCE AIR POCKETS AND TO MAXIMIZE CONTACT BETWEEN THE PLUG ROOTS AND PREPARED SOIL. 14. MONITOR NEW PLANTINGS FOR SIGNS OF DISEASES, PESTS AND WATER STRESS.

15. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE TO KEEP NEW PLANTINGS FREE OF UNDESIRABLE AND INVASIVE 16. CONTRACTOR SHALL REMOVE ALL CUT VEGETATION TO

ENSURE STORMWATER MANAGEMENT CONTROL STRUCTURES ARE KEPT CLEAR AND FREE OF DEBRIS. 17. ONCE PLUGS ARE INSTALLED, THE BASIN BOTTOM SHALL BE OVERSEEDED WITH ERNMX-126 (ERNST BASIN FLOOR LOW MAINTENANCE GRASS MIX).

18. INTERIOR SIDE SLOPES OF BASIN SHALL BE PLANTED WITH ERNMX-260-1 (PA PIEDMONT PROVINCE UPL MEADOW MIX). BMP-002 PLUG CALCULATION

BASIN BOTTOM (SF.) PLUG SPACING (IN.) REQUIRED PLUGS 1,950 24 488

BMP-003 PLUG CALCULATION

BASIN BOTTOM (SF.) PLUG SPACING (IN.) REQUIRED PLUGS AREA OF PLUG \vee \vee \vee

BMP FACILITY PLUG PLANTING DETAIL

NOT TO SCALE

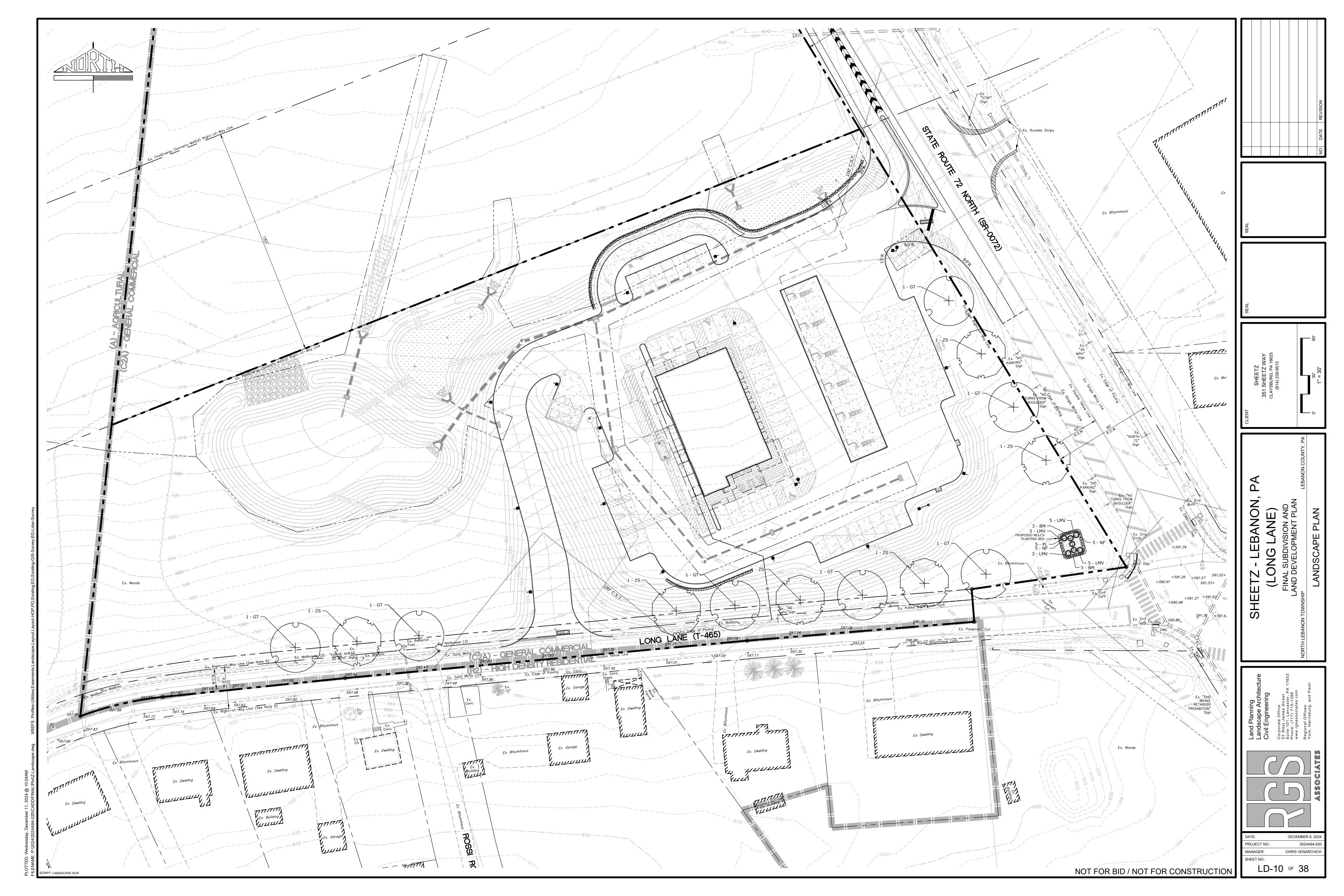
SHEET NO LD-9 of 38

CHRIS VENARCHIC MANAGER

PROJECT NO

2024A84-0

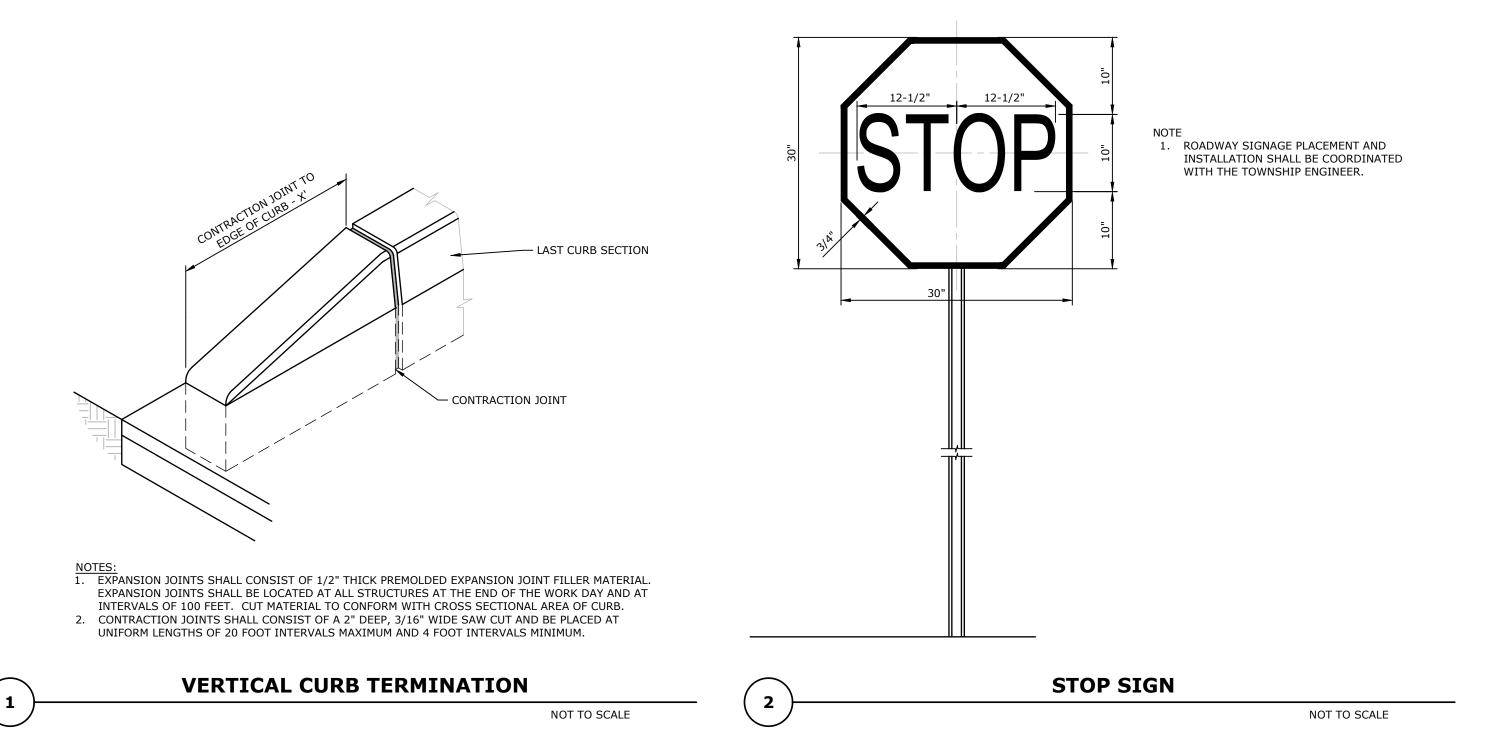
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SCALE: 1" = 50' LOW POINT ELEV = 581.07 HIGH POINT ELEV = 596.73 LOW POINT STA = 2+95.58PVI STA = 2+44.58 PVI ELEV = 582.08 A.D. = 5.03% PVI STA = 0+60.93PVI ELEV = 594.93 A.D. = -3.00% K = 20.29K = 30.0090.14' VC 101.99' VC STA.: 0+00.00; ELEV.: 597.59 LONG LANE CENTERLINE 618 610 594 606 6" PVC @ 6.00% —31.5 L.F. OF 592 604 6" PVC @ 3.00% CROSSING 602 602 600 6" PVC @ -2.00% 6" PVC @ 10.00% 4.9 L.F. OF _ 4.2 L.F. OF 598 6" PVC @ 3.00% 596 6" PVC @ 10.00% 29.3 L.F. OF 594 6" PVC @ 10.00% 6" PVC @ 3.54% 592 __4.2 L.F. OF -17.0 L.F. OF RC-34 4'X GRATE = 1 INV. IN = 1 INV. OUT 590 6" PVC @ 10.00% 4" PVC @ 8.00% ┌-9.8 L.F. 588 ┌─34.7 L.F. OF OF 4" PVC 6" PVC @ 7.50% 586 ⊢15" STORM 582 584 OF 6" PVC CROSSING @ 1.99% 582 580 578 576 578 574 576 572 572 CO-02 570 570 568 568 566 564 562 77 5 60-03 60-04 60-05 60-06 550 544 542 1+00 1+50 2+00 2+50 0+00 0+50 1+00 1+50 2+00 0+00 0+50 GREASE TRAP HORZ. SCALE: 1"=50' **BUILDING TO EXISTING CONNECTION IN LONG LANE ACCESS DRIVE - LONG LANE** HORZ. SCALE: 1"=50' HORZ. SCALE: 1"=50' **VERT. SCALE: 1"= 5' VERT. SCALE: 1"= 10' VERT. SCALE: 1"= 10'**

PROJECT NO.: SHEET NO.: LD-11 of 38

LEGEND



___ 2 PIECE BREAKAWAY SIGN SUPPORT SYSTEM, STEEL, SIGN POST -2.5 POUND/FOOT MINIMUM 4" MAX HEIGHT - ANCHOR POST **SIGN POST**

GAUGE 2.25" TOP SECTION.

LONG, A CORNER BOLT AND A RAIN CAP.

1. POSTS SHALL BE SQUARE BREAKAWAY POST SYSTEM CONSISTING OF A

2. THE POST SHALL BE CORNER WELDED WITH 7/16" HOLES ON CENTER,

GALVANIZED WITH A COATING DESIGNATION OF G-140.

3. A COMPLETE POST SYSTEM SHALL CONSIST OF AN ANCHOR SECTION

OF AT LEAST 3'-6" LONG, A SQUARE TOP POST AT LEAST TEN FEET

4. ANY FREESTANDING SIGN IN A PARKING LOT SHALL BE MOUNTED AS SHOWN. PROVIDE SIGNAGE ON BOTH SIDES OF POST WHEN REQUIRED ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH

14 GAUGE GALVANIZED STEEL SQUARE POST, 3'-6" ANCHOR AND A 12

ON ALL FOUR SIDES AND BASE, ONLY THE HOLES USED FOR MOUNTING SIGNS SHALL BE PUNCHED OUT. THE COATING SHALL BE HOT DIPPED

MUTCD CODE

R1-1

R7-x

R7-8

STOP

NO PARKING

NO PARKING (SYMBOL)

PEDESTRIAN CROSSING

LEFT LANE MUST TURN LEFT R3-7

HANDICAP PARKING

- Grout fence or railing Grout fence or railing post in place post in place Fleld core Into Fleid core into block Top block In second course These generic pedestrian guard and fence details show a few potential options for their Installation on the top of a Redi-Rock retaining wall. It is the design engineer's responsibility to fully design and detail the connection of the guard posts to the retaining wall blocks and assure acceptable resistance to the applied forces. Redl-Rock blocks are plain concrete, without steel reinforcement. **Grouted Connection Grouted Connection** (1 Block) (2 Blocks) Fence or railing post Core and grout or connect with flanged base plate Flange base plate attached to top block with adhesive set anchor bolts ReInforced concrete sidewalk Flange Bolted Connection Moment Slab Connection THIS DRAWING IS FOR REFERENCE ONLY. DETERMINATION OF THE SUITABILITY AND/OR MANNER OF USE OF ANY DETAILS CONTAINED IN THIS DOCUMENT IS THE SOLE RESPONSIBILITY OF THE DESIGN

ENGINEER OF RECORD. FINAL PROJECT DESIGNS, INCLUDING ALL CONSTRUCTION DETAILS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER USING THE ACTUAL CONDITIONS OF THE

• CONTRACTOR TO COORDINATE COLOR WITH SHEETZ. FENCE OR PEDESTRIAN GUARD

CONNECTION OPTIONS (REDIROCK) NOT TO SCALE

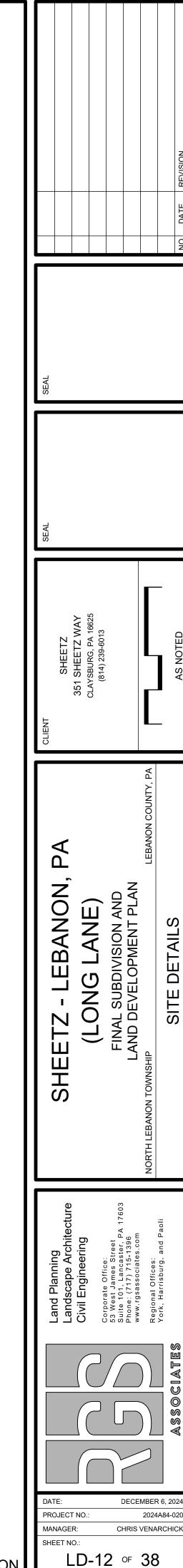
 Grade to drain surface water Setback = 1 %" (41 mm) away from wall (5" batter angle on wall) - Non-woven geotextile fabric (If specified by Engineer based on site soil conditions) RETAINED SOIL Move blocks forward during installation Exposed wall to engage shear knobs (Typical) (Height varies with design) - Drainstone (AASHTO No. 57 or equivalent) to extend at least 12" (305 mm) behind blocks - Fill wedge between adjacent blocks with drainstone (all blocks) Fill vertical core slot with drainstone (PC blocks) Middle block (Typical) Block widths vary with design Bury depth Solld bottom block Block widths vary with design Drain (As specified by Engineer) Leveling pad (As specified by Engineer)

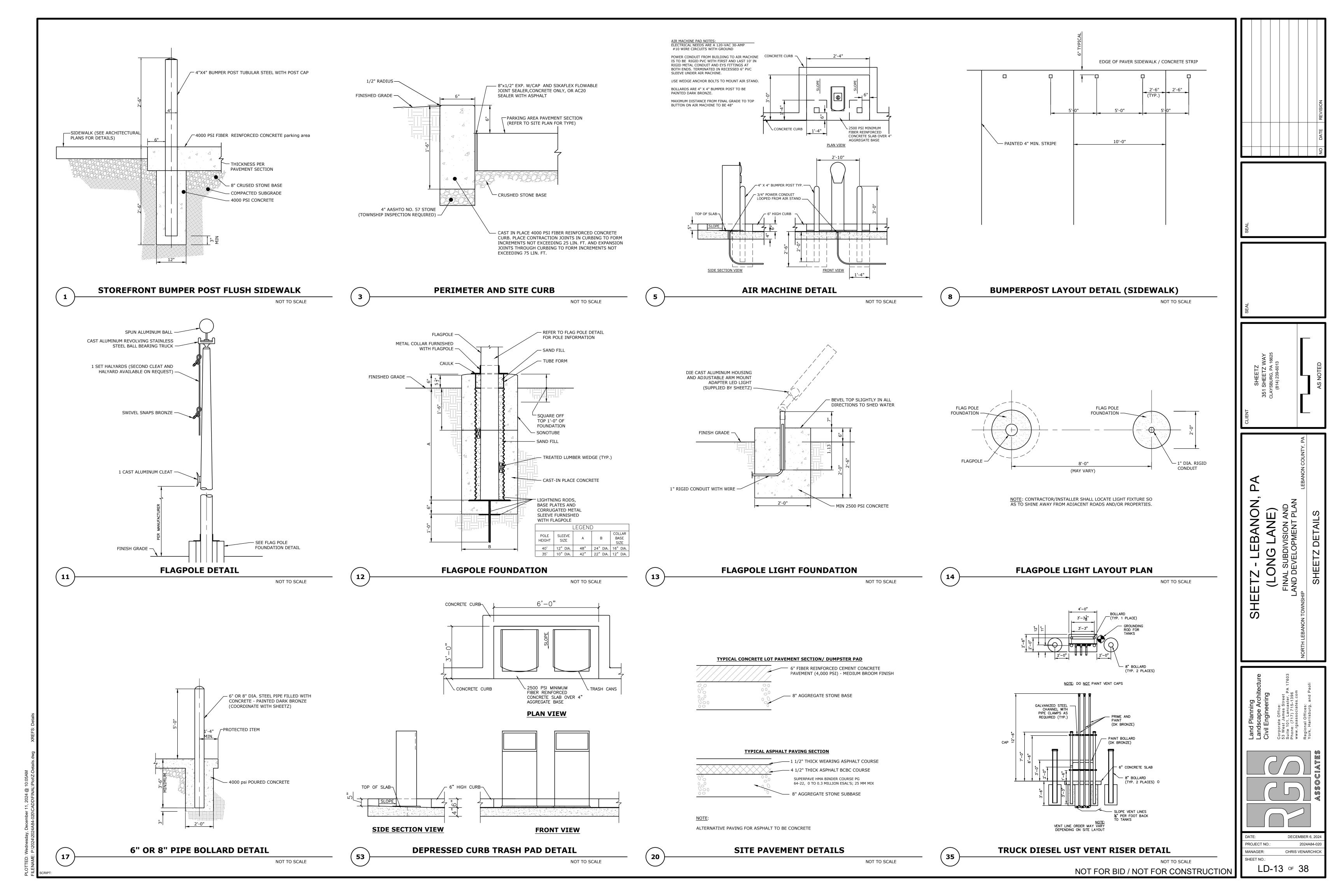
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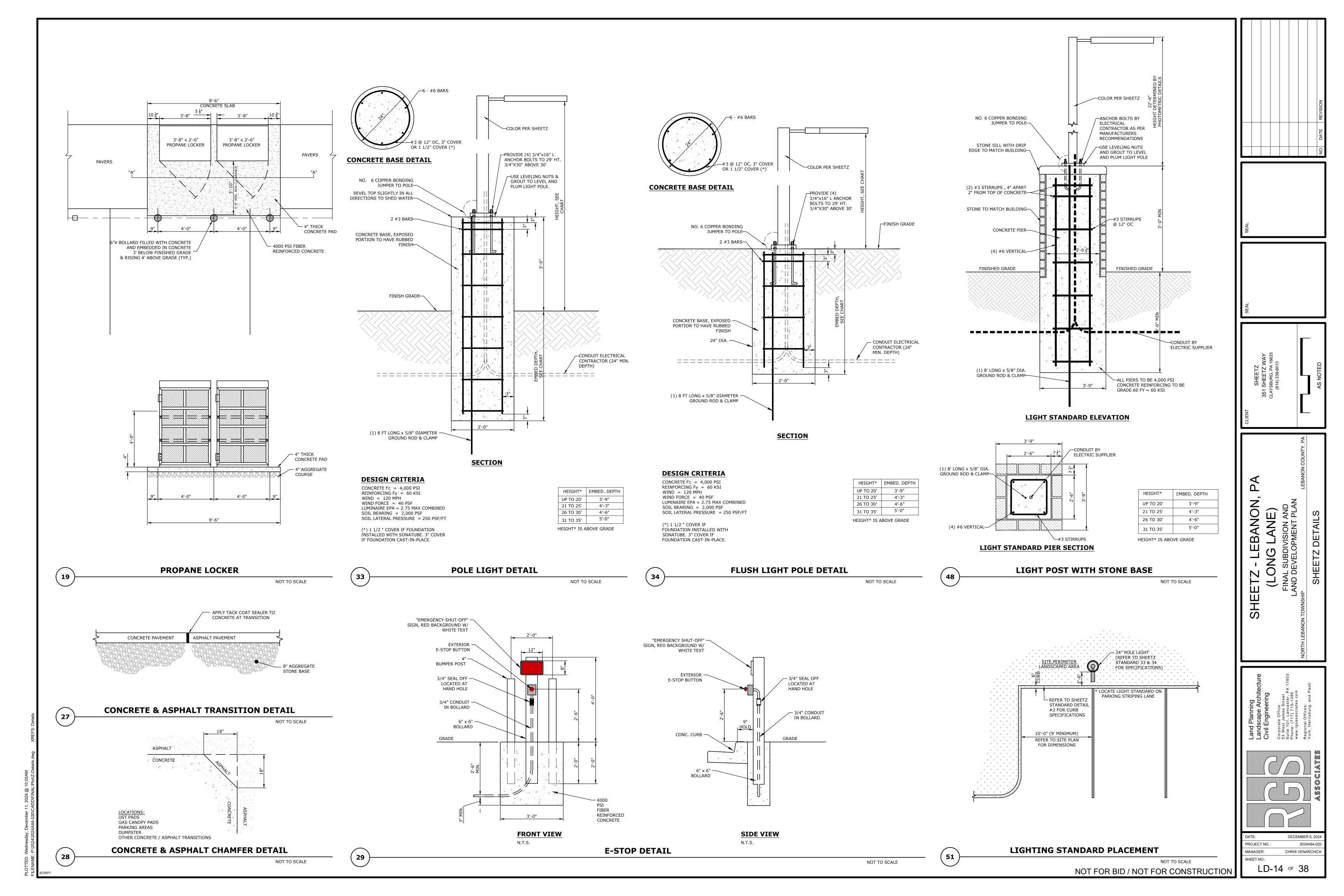
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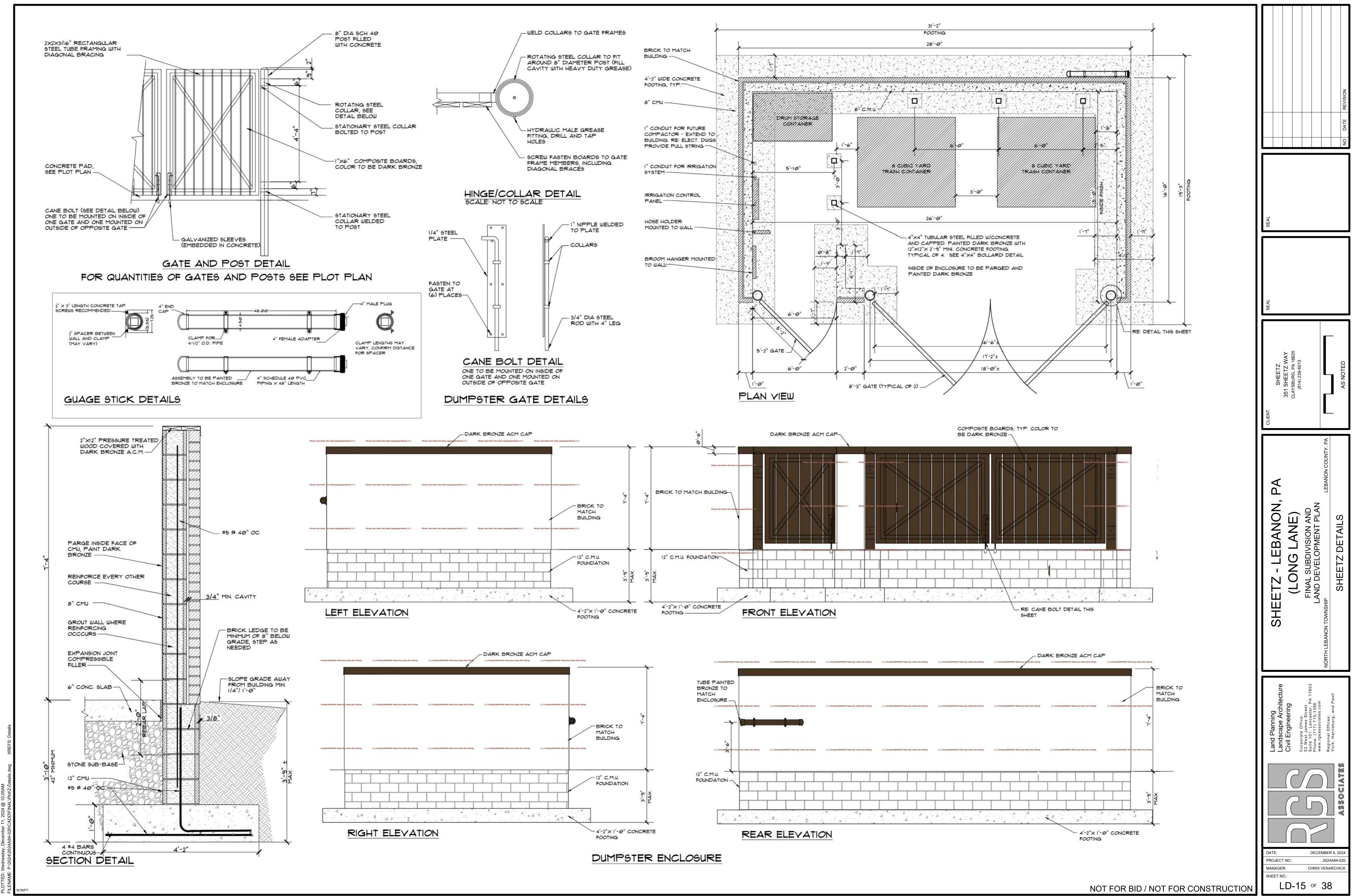
• CONTRACTOR TO COORDINATE COLOR WITH SHEETZ.

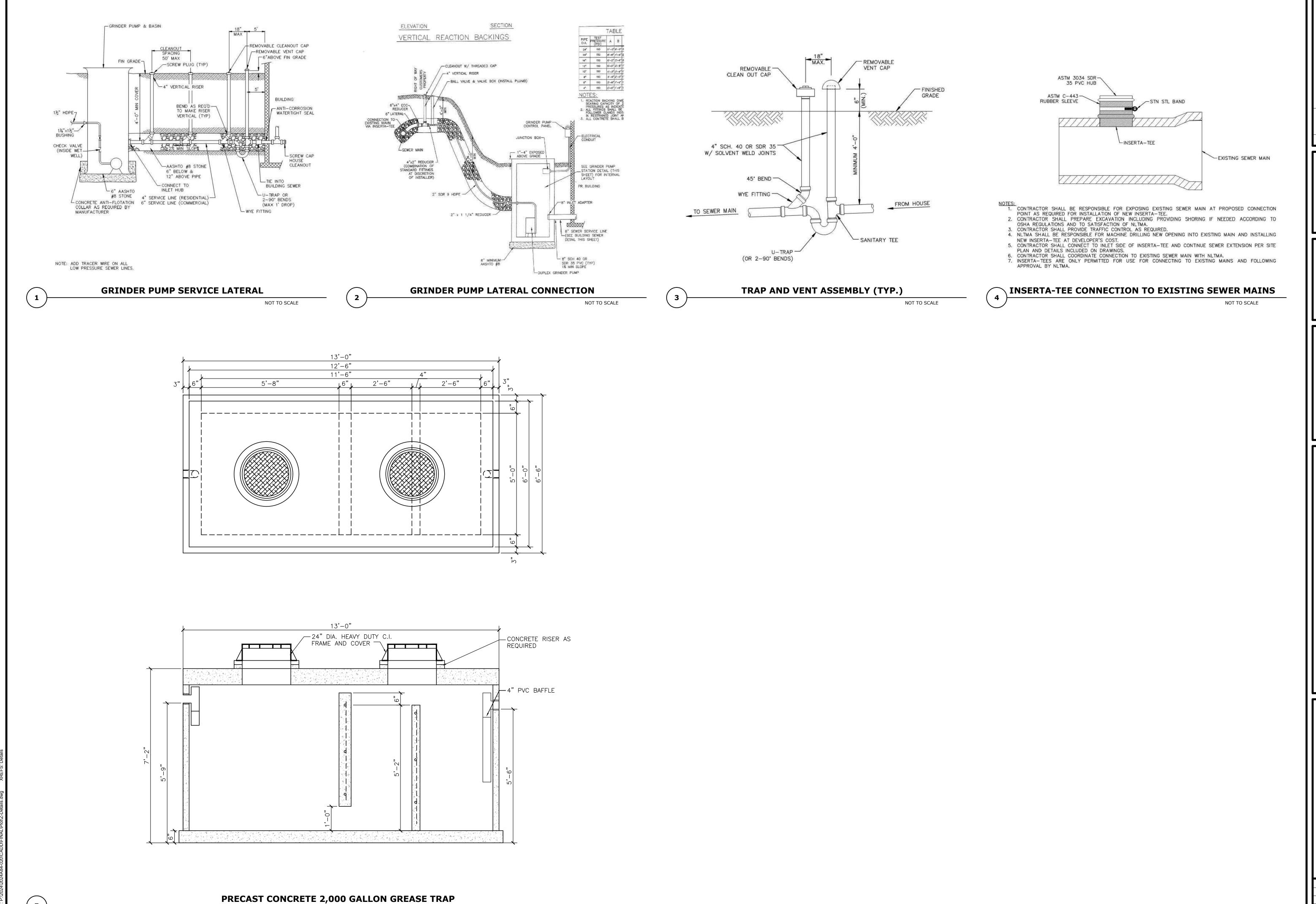
TYPICAL GRAVITY WALL DETAIL (REDIROCK) NOT TO SCALE



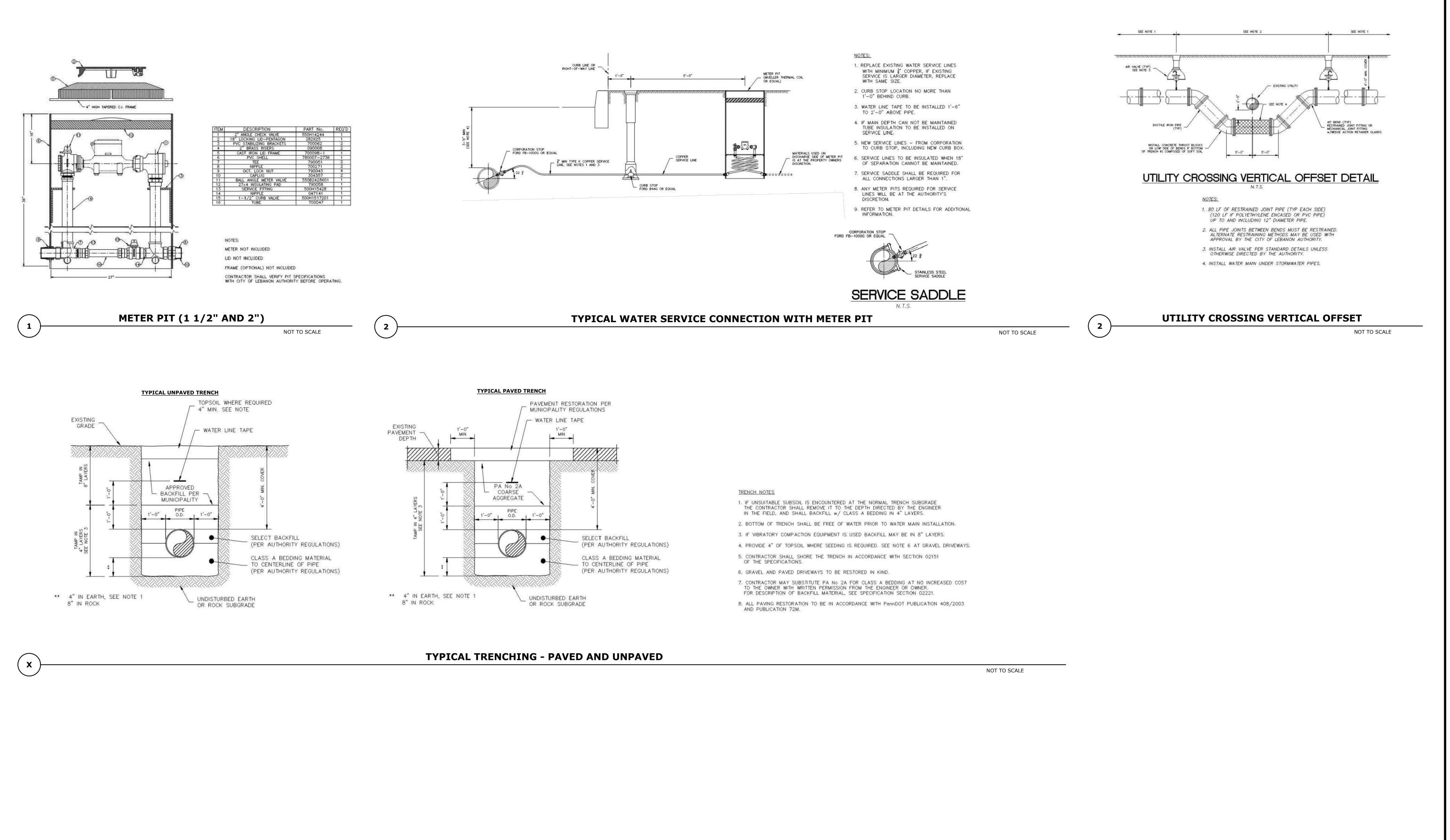








NOT TO SCALE



PROJECT NO.: 2024A84-020

MANAGER: SHEET NO.: CHRIS VENARCHICK

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THE MOST PERMEABLE BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE PRINCIPAL SPILLWAY (I.E. OUTLET STRUCTURE AND DISCHARGE PIPE) MUST BE INSTALLED

THAN ONE TREAD TRACK OF HEAVY EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A SHEEPSFOOT OR VIBRATORY ROLLER. THE FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION WILL BE OBTAINED WITH THE FOLIPMENT USED THE FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SO THAT IF FORMED INTO A BALL IT WILL NOT CRUMBLE, YET NOT BE SO WET THAT WATER CAN BE SQUEEZED OUT.

WHEN REQUIRED BY THE REVIEWING AGENCY, THE MINIMUM REQUIRED DENSITY SHALL NOT BE LESS THAN 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM. EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY, AND IS TO BE CERTIFIED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. ALL COMPACTION IS TO BE DETERMINED BY AASHTO METHOD T-99 (STANDARD PROCTOR).

CUT OFF TRENCH
THE CUTOFF TRENCH SHALL BE EXCAVATED INTO IMPERVIOUS MATERIAL ALONG OR PARALLEL TO THE CENTERLINE OF THE EMBANKMENT AS SHOWN ON THE PLANS. THE BOTTOM WIDTH OF THE TRENCH SHALL BE GOVERNED BY THE EQUIPMENT USED FOR

EXCAVATION, WITH THE MINIMUM WIDTH BEING FOUR FEET. THE DEPTH SHALL BE AT LEAST TWO FEET BELOW EXISTING GRADE OR AS SHOWN ON THE PLANS. THE SIDE SLOPES OF THE TRENCH SHALL BE 1 TO 1 OR FLATTER. THE BACKFILL SHALL BE COMPACTED WITH CONSTRUCTION EQUIPMENT, ROLLERS, OR HAND TAMPERS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY.

EMBANKMENT CORE THE CORE SHALL BE PARALLEL TO THE CENTERLINE OF THE EMBANKMENT AS SHOWN ON THE

THE TOP WIDTH OF THE CORE SHALL BE A MINIMUM OF FOUR FEET. THE HEIGHT SHALL EXTEND UP TO AT LEAST THE 10 YEAR WATER ELEVATION OR AS SHOWN ON THE SIDE SLOPES SHALL BE 1 TO 1 OR FLATTER.

THE CORE SHALL BE COMPACTED WITH CONSTRUCTION EQUIPMENT, ROLLERS, OR HAND TAMPERS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY. IN ADDITION, THE CORE SHALL BE PLACED CONCURRENTLY WITH THE OUTER SHELL OF EMBANKMENT.

STRUCTURE BACKFILL WITH FLOWABLE FILL BACKFILL ADJACENT TO PIPES OR STRUCTURES SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL

THE FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL NEEDS TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE.

LINDER NO CIRCUMSTANCES SHALL FOLITPMENT BE DRIVEN OVER ANY PART OF A CONCRETE STRUCTURE OR PIPE, UNLESS THERE IS A COMPACTED FILL OF 24" OR GREATER OVER THE STRUCTURE OR PIPE. THE MIXTURE SHALL HAVE A 100-200 PSI; 28 DAY UNCONFINED COMPRESSIVE STRENGTH. THE

FLOWABLE FILL SHALL HAVE A MINIMUM PH OF 4.0 AND A MINIMUM RESISTIVITY OF 2,000 OHM-CM. MATERIAL SHALL BE PLACED SUCH THAT A MINIMUM OF 6" (MEASURED PERPENDICULAR TO THE OUTSIDE OF THE PIPE) OF FLOWABLE FILL SHALL BE UNDER (BEDDING), OVER AND, ON THE

SIDES OF THE PIPE. 7. FLOWABLE FILL ONLY NEEDS TO EXTEND UP TO THE SPRING LINE FOR RIGID CONDUITS. AVERAGE SLUMP OF THE FILL SHALL BE 7" TO ASSURE FLOWABILITY OF THE MATERIAL.

9. ADEQUATE MEASURES SHALL BE TAKEN (SAND BAGS, ETC.) TO PREVENT FLOATING THE PIPE. 10. THE MATERIAL SHALL COMPLETELY FILL ALL VOIDS ADJACENT TO THE FLOWABLE FILL ZONE. 11. BACKFILL MATERIAL OUTSIDE THE STRUCTURAL BACKFILL (FLOWABLE FILL) ZONE SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE CORE OF THE EMBANKMENT OR OTHER EMBANKMENT MATERIALS.

<u>PIPE CONDUITS</u>
ALL PIPES SHALL BE CIRCULAR IN CROSS SECTION.

REINFORCED CONCRETE PIPE - MATERIALS
REINFORCED CONCRETE PIPE SHALL HAVE BELL AND SPIGOT JOINTS WITH RUBBER GASKETS AND SHALL EQUAL OR EXCEED ASTM C-361.

REINFORCED CONCRETE PIPE - BEDDING
REINFORCED CONCRETE PIPE CONDUITS SHALL BE LAID IN A CONCRETE BEDDING/CRADLE FOR THEIR ENTIRE LENGTH. THIS BEDDING/CRADLE SHALL CONSIST OF HIGH SLUMP CONCRETE PLACED UNDER THE PIPE AND UP THE SIDES OF THE PIPE AT LEAST 50% OF ITS OUTSIDE DIAMETER WITH A MINIMUM THICKNESS OF 6 INCHES.

WHERE A CONCRETE CRADLE IS NOT NEEDED FOR STRUCTURAL REASONS, FLOWABLE FILL MAY BE USED AS DESCRIBED IN THE "STRUCTURE BACKFILL" SECTION OF THIS STANDARD. GRAVEL BEDDING IS NOT PERMITTED.

REINFORCED CONCRETE PIPE - LAYING PIPE BELL AND SPIGOT PIPE SHALL BE PLACED WITH THE BELL END UPSTREAM.

JOINTS SHALL BE MADE IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER OF 3. AFTER THE JOINTS ARE SEALED FOR THE ENTIRE LINE, THE BEDDING SHALL BE PLACED SO THAT ALL SPACES UNDER THE PIPE ARE FILLED.

4. CARE SHALL BE EXERCISED TO PREVENT ANY DEVIATION FROM THE ORIGINAL LINE AND GRADE

5. THE FIRST JOINT MUST BE LOCATED WITHIN 4 FEET FROM THE RISER.

SHALL CONFORM TO "STRUCTURE BACKFILL"

CONCRETE SHALL MEET THE REQUIREMENTS OF PENNSYLVANIA DEPARTMENT OF

TRANSPORTATION PUBLICATION 408, SECTIONS 605, 606 AND 714; AND AS MODIFIED HEREON. 2. REINFORCEMENT SHALL MEET THE MINIMUM REQUIREMENTS OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 408, SECTION 709.

ROCK RIPRAP SHALL MEET THE REQUIREMENTS OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 408.

STABILIZATION SPECIFICATIONS

1. UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES WILL EXCEED 4 DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED. MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE

ACTIVITIES. 2. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN DRAWINGS 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. TOPSOIL STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SIDE SLOPES MUST BE 2:1 OR

FLATTER. 4. 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 6 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.

5. TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION. COMPACTED SOILS SHOULD BE SCARIFIED 6 TO 12 INCHES ALONG CONTOUR WHENEVER POSSIBLE PRIOR TO

6. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINAL GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.

7. AN EROSION CONTROL BLANKET WILL BE INSTALLED ON ALL DISTURBED SLOPES 3:1 OR STEEPER, ALL AREAS OF CONCENTRATED FLOWS, AND DISTURBED AREAS WITHIN 50' OF A SURFACE WATER.

8. STRAW AND HAY MULCH SHOULD BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL. THIS METHOD IS LIMITED TO SLOPES NO STEEPER THAN 3:1. THE MACHINERY SHOULD BE OPERATED ON THE CONTOUR. (NOTE: CRIMPING OF HAY OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED). A WOOD CELLULOSE FIBER MAY BE SPREAD OVER THE STRAW MULCH AT A RATE OF 1,500 LB./ACRE.

9. TRACKING SLOPES IS REQUIRED BY RUNNING TRACKED MACHINERY UP AND DOWN THE SLOPE, LEAVING TREAD MARKS PARALLEL TO THE CONTOUR. (NOTE: IF A BULLDOZER IS USED, THE BLADE SHALL BE UP.) CARE SHOULD BE EXERCISED ON SOILS HAVING A HIGH CLAY CONTENT TO AVOID OVER-COMPACTION.

TEMPORARY SEEDING SPECIFICATIONS

1. IN ORDER TO ESTABLISH A QUICK GRASS COVER OVER DISTURBED AREAS, A TEMPORARY SEED MIXTURE SHALL BE USED AS FOLLOWS:

> SPECIES: PENNDOT FORMULA E % PURF LIVE SEED: 86% APPLICATION RATE: 48 LB./ACRE FERTILIZER TYPE: 5-5-5 FERTILIZE RATE: 1,000 LB./ACRE LIMING RATE: 1 T./ACRE MULCH TYPE: STRAW MULCHING RATE: 3 T./ACRE

2. STABILIZATION EFFORTS DURING THE NON-GERMINATING PERIOD, OCT. 15 TO MARCH 15, SHOULD BE MULCHED WITH CLEAN STRAW. (EQUIVALENT TO 0.75" TO 1" DEEP). CLEAN STRAW

MULCH SHOULD NOT BE FINELY CHOPPED OR BROKEN DURING APPLICATION. 3. STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL - ABOUT 3 INCHES. THIS METHOD SHOULD BE LIMITED TO SLOPES NO STEEPER THAN 3H:1V. THE MACHINERY SHOULD BE OPERATED ON THE CONTOUR.

4. MULCH ON SLOPES OF 8% OR STEEPER SHOULD BE HELD IN PLACE WITH NETTING. LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETS MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

5. ALL AREAS SHALL BE TEMPORARILY STABILIZED UPON CESSATION OF WORK FOR 4 DAYS OR MORE, OR AS SOON AS ANY DISTURBED AREA REACHES ITS FINAL GRADE.

PERMANENT SEEDING SPECIFICATIONS

1. ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED SHALL BE COVERED WITH GRASS OR A LEGUME IN ORDER TO MINIMIZE EROSION, UNLESS OTHERWISE DIRECTED BY THE OWNER AS FOLLOWS:

TOPSOIL PLACEMENT DEPTH: 6 IN. SPECIES: PENNDOT FORMULA B % PURE LIVE SEED: 83% APPLICATION RATE: 203 LB./ACRE FERTILIZER TYPE: 38-0-0 FERTILIZE RATE: 242 LB./ACRE LIMING RATE: 2 T./ACRE MULCHING RATE: 3 T./ACRE ANCHOR MATERIAL: WOOD FIBER ANCHOR METHOD: HYDRAULICALLY RATE OF ANCHOR MATERIAL APPL.: 774 LB./ACRE

SEEDING SEASON DATE: MARCH 15 - JUNE 1/AUGUST 1 TO OCTOBER 15 2. ALL DISTURBED AREAS WITH STEEP SLOPES SHALL BE COVERED WITH GRASS OR A LEGUME IN ORDER TO MINIMIZE EROSION, UNLESS OTHERWISE DIRECTED BY THE OWNER AS FOLLOWS:

TOPSOIL PLACEMENT DEPTH: 6 IN. SPECIES: PENNDOT FORMULA D % PURE LIVE SEED: 82% APPLICATION RATE: 242 LB./ACRE FERTILIZER TYPE: 38-0-0 FERTILIZE RATE: 242 LB./ACRE LIMING RATE: 2 T./ACRE

MULCH TYPE: STRAW MULCHING RATE: 3 T./ACRE ANCHOR MATERIAL: WOOD FIBER ANCHOR METHOD: HYDRAULICALLY RATE OF ANCHOR MATERIAL APPL.: 774 LB./ACRE

SEEDING SEASON DATE: MARCH 15 - JUNE 1/AUGUST 1 - OCTOBER 15 3. MULCHING SHALL BE USED TO PROTECT SEEDING AND HELP IN PREVENTING RUNOFF. A. CLEAN STRAW MULCH SHALL BE REQUIRED IN ALL DISTURBED AREAS (EQUIVALENT TO

0.75" TO 1" DEEP). CLEAN STRAW MULCH SHOULD NOT BE FINELY CHOPPED OR BROKEN

DURING APPLICATION. B. STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL - ABOUT 3 INCHES. THIS METHOD SHOULD BE LIMITED TO SLOPES NO STEEPER THAN 3H:1V. THE MACHINERY SHOULD BE OPERATED ON THE CONTOUR.

POLYMERIC AND GUM TACKIFIERS MIXED AND APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS MAY BE USED TO TACK MULCH. SYNTHETIC BINDERS, OR CHEMICAL BINDERS, MAY BE USED AS RECOMMENDED BY THE

MANUFACTURER TO ANCHOR MULCH PROVIDED SUFFICIENT DOCUMENTATION IS PROVIDED TO SHOW THEY ARE NON-TOXIC TO NATIVE PLANT AND ANIMAL SPECIES. MULCH ON SLOPES OF 8% OR STEEPER SHOULD BE HELD IN PLACE WITH NETTING. LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETS MAY BE STAPLED OVER THE MULCH

ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. SHREDDED PAPER HYDROMULCH SHOULD NOT BE USED ON SLOPES STEEPER THAN 5%. WOOD FIBER HYDROMULCH MAY BE APPLIED ON STEEPER SLOPES PROVIDED A TACKIFIER

IS USFD. 4. FOR FURTHER INFORMATION ON SEED MIXES, SEE THE E & S WORKSHEETS IN THE CHAPTER 102 REGULATIONS.

5. WELL IN ADVANCE OF THE NEED TO PERMANENTLY SEED ANY DISTURBED AREA, THE CONTRACTOR SHALL OBTAIN AND FORWARD A SOIL AGRONOMY TESTING REPORT FROM AN APPROVED SOILS LABORATORY SUCH AS THE PENNSYLVANIA STATE UNIVERSITY'S AGRICULTURAL ANALYTICAL SERVICES LABORATORY. THE REPORT SHALL DETERMINE THE ACTUAL LIME AND FERTILIZER RATES FOR THE ON-SITE TOPSOIL. THE CONTRACTOR SHALL FORWARD THE FINAL REPORT TO THE LANDSCAPE ARCHITECT OR CLIENT'S REPRESENTATIVE UPON RECEIPT.

6. ALL SOIL AMENDMENTS SHALL BE INSTALLED PER THE SOIL AGRONOMY REPORT, AND SHALL BE PROVIDED BY THE CONTRACTOR.

7. APPLY AMENDMENTS ON-SITE, AND MIX SOIL TO FULLY ADDRESS ALL EXISTING SOIL DEFICIENCIES. DO NOT APPLY AMENDMENTS NOR TILL IF EXISTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.

### Company of the Co	BMP TYPE FACILITY NOS.	CONSTRUCTION NOTES	CRITICAL STAGES OF PROFESSIONAL OVERSIGHT	OPERATION AND MAINTENANCE
The color of the	FACILITIES	INSTALLED AT THE LOCATION AND IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS INCLUDED ON THIS PLAN, UNLESS OTHERWISE REQUIRED BY THE		 THE FACILITY SHALL ALSO BE CLEANED IMMEDIATELY AFTER PETROLEUM SPILLS. THE OWNER SHALL CONTACT THE APPROPRIATE REGULATORY AGENCIES (BUT NOT LIMITED TO THE PA DEP AND THE TOWNSHIP) IN THE EVENT OF A SPILL AND CLEANUP OPERATION. CLEAN OUT AND DISPOSE OF ACCUMULATED OIL, GREASE, AND SEDIMENTS. REMOVE ACCUMULATED TRASH AND DEBRIS. THE CLEAN OUT AND DISPOSAL TECHNIQUES SHOULD BE ENVIRONMENTALLY
STATE OF THE COLUMN ASSESSMENT OF THE COLUMN A		THE LOCATION AND IN ACCORDANCE WITH THE DETAILS	ENSURE INSTALLATION IS IN GENERAL CONFORMANCE WITH THE	REMOVED FROM THE UNDERGROUND SWM FACILITY BY VACUUM TRUCK OR OTHER MANUAL MEANS. THE OWNER SHALL DISPOSE OF REMOVED SEDIMENT AND DEBRIS IN ACCORDANCE WITH THE RECYCLING AND DISPOSAL NOTES. REGULAR MAINTENANCE (AFTER EACH MEASURABLE STORM EVENT (0.25 INCH OR GREATER) OR A MINIMUM OF TWICE PER YEAR): REMOVE ACCUMULATED SEDIMENT, TRASH, AND DEBRIS FROM THE FACILITY. CLEAN OUT AND DISPOSE OF ACCUMULATED OIL, GREASE, AND SEDIMENTS. REMOVE ACCUMULATED TRASH AND DEBRIS. THE CLEAN OUT AND DISPOSAL TECHNIQUES SHOULD BE ENVIRONMENTALLY ACCEPTABLE AND IN ACCORDANCE WITH LOCAL REGULATIONS. SEDIMENT AND DEBRIS SHALL BE REMOVED FROM THE UNDERGROUND SWM FACILITY BY VACUUM TRUCK OR OTHER MANUAL MEANS. THE OWNER SHALL DISPOSE OF REMOVED SEDIMENT AND DEBRIS IN ACCORDANCE WITH THE RECYCLING AND DISPOSAL NOTES. DOCUMENTATION REQUIREMENTS: PREPARE ANNUAL INSPECTION REPORTS AS REQUIRED BY THE MUNICIPAL ORDINANCE AND STORMWATER AGREEMENT. PREPARE AND MAINTAIN INSPECTION, REPAIR, AND REPLACEMENT LOGS/REPORTS IN ACCORDANCE WITH PA DEP CHAPTER 102 REGULATIONS AND THE CONDITIONS OF THE NPDES PERMIT. GENERAL REQUIREMENTS: THE FACILITY SHALL ALSO BE CLEANED IMMEDIATELY AFTER PETROLEUM SPILLS. THE OWNER SHALL CONTACT THE APPROPRIATE REGULATORY AGENCIES (BUT NOT LIMITED TO THE PA DEP AND THE TOWNSHIP) IN THE EVENT OF A SPILL AND CLEANUP OPERATION. CLEAN OUT AND DISPOSE OF ACCUMULATED OIL, GREASE, AND SEDIMENTS. REMOVE ACCUMULATED TRASH AND DEBRIS. THE CLEAN OUT AND DISPOSAL TECHNIQUES SHOULD BE ENVIRONMENTALLY ACCEPTABLE AND IN ACCORDANCE WITH HOLD AND DISPOSAL FOR MAINTAIN THE WINDERGROUND SWM FACILITY BY VACUUM TRUCK OR OTHER MANUAL MEANS. THE OWNER SHALL DISPOSE OF REMOVED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM THE UNDERGROUND SWM FACILITY BY VACUUM TRUCK OR OTHER MANUAL MEANS. THE OWNER SHALL DISPOSE OF REMOVED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM THE UNDERGROUND SWM FACILITY BY VACUUM TRUCK OR OTHER MANUAL MEANS. THE OWNER SHALL DISPOSE OF REMOVED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM THE UNDERGROUND SWM FACILITY B
## 100 CT	FILTER (NOT A PCSM BMP) BEST MANAGEMENT PRODUCTS, INC. SNOUT WITH BIO-SKIRT INLETS (F)	CONTRIBUTING DRAINAGE AREA TO THE FACILITY HAS RECEIVED FINAL STABILIZATION. 2. SNOUT HOOD INSTALLATION SHALL BE COMPLETED IN	MANUFACTURER	 PREPARE AND MAINTAIN INSPECTION, REPAIR, AND REPLACEMENT LOGS/REPORTS IN ACCORDANCE WITH PA DEP CHAPTER 102 REGULATIONS AND THE CONDITIONS OF THE NPDES PERMIT. GENERAL REQUIREMENTS: THE FACILITY SHALL ALSO BE CLEANED IMMEDIATELY AFTER PETROLEUM SPILLS. THE OWNER SHALL CONTACT THE APPROPRIATE REGULATORY AGENCIES (BUT NOT LIMITED TO THE PA DEP AND THE TOWNSHIP) IN THE EVENT OF A SPILL AND CLEANUP OPERATION. CLEAN OUT AND DISPOSE OF ACCUMULATED OIL, GREASE, AND SEDIMENTS. REMOVE ACCUMULATED TRASH AND DEBRIS. THE CLEAN OUT AND DISPOSAL TECHNIQUES SHOULD BE ENVIRONMENTALLY ACCEPTABLE AND IN ACCORDANCE WITH LOCAL REGULATIONS. SEDIMENT AND DEBRIS SHALL BE REMOVED FROM THE UNDERGROUND SWM FACILITY BY VACUUM TRUCK OR OTHER MANUAL MEANS. THE OWNER SHALL DISPOSE OF REMOVED SEDIMENT AND DEBRIS IN ACCORDANCE WITH THE
OPP NO. 2 SERVICE CONTROL OF MARKET CONTROL OF SERVICE AND STORM TO THE PROPERTY AND PROTECT CHAIRMY. SERVICE CONTROL OF SERVICE AND STORM TO THE PROTECT CHAIRMY. SERVICE CONTROL OF SERVICE CONTROL O	MANHOLES (R)			 ALL MAINTENANCE, REPAIR AND REPLACEMENT SHALL BE IN ACCORDANCE WITH THE MOST CURRENT (AS OF THE DATE OF INSPECTION) SPECIFICATIONS OUTLINED BY THE MANUFACTURER REGULAR MAINTENANCE (AFTER EACH MEASURABLE STORM EVENT (0.25 INCH OR GREATER) OR A MINIMUM OF TWICE PER YEAR): REMOVE ACCUMULATED SEDIMENT, TRASH, AND DEBRIS FROM THE FACILITY CLEAN OUT AND DISPOSE OF ACCUMULATED OIL, GREASE, AND SEDIMENTS. REMOVE ACCUMULATED TRASH AND DEBRIS. THE CLEAN OUT AND DISPOSAL TECHNIQUES SHOULD BE ENVIRONMENTALLY ACCEPTABLE AND IN ACCORDANCE WITH LOCAL REGULATIONS. SEDIMENT AND DEBRIS SHALL BE REMOVED FROM THE UNDERGROUND SWM FACILITY BY VACUUM TRUCK OR OTHER MANUAL MEANS. THE OWNER SHALL DISPOSE OF REMOVED SEDIMENT AND DEBRIS IN ACCORDANCE WITH THE RECYCLING AND DISPOSAL NOTES. DOCUMENTATION REQUIREMENTS: PREPARE ANNUAL INSPECTION REPORTS AS REQUIRED BY THE MUNICIPAL ORDINANCE AND STORMWATER AGREEMENT. PREPARE AND MAINTAIN INSPECTION, REPAIR, AND REPLACEMENT LOGS/REPORTS IN ACCORDANCE
AMD REMAINING APPARTMENCES. AMD REMAINING APPARE FOR REPAIR SOLUTIONS IF THESE COMPONENTS ARE DAMAGED. DOUGHET AT ION REQUIREMENTS. PREPAIR SAMULA INSPECTION REPORTS AS REQUIRED BY THE MUNICIPAL DIGITAL	BIO-RETENTION BMP NO. 3	BE PROTECTED FROM COMPACTION (WITHIN TWO FEET OF THE SUBGRADE OF THE FACILITY). THE FACILITY MAY NOT RECEIVE RUNOFF UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA TO FACILITY HAS RECEIVED FINAL STABILIZATION. UPLAND TRIBUTARY CONVEYANCE FACILITIES SHALL BE FLUSHED AND SEDIMENT REMOVED. CONTRACTOR SHALL PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE FACILITY. CONTRACTOR SHALL USE LOW-PRESSURE EQUIPMENT AND UTILIZE NON-INFILTRATION AREAS FOR EQUIPMENT STAGING TO PERFORM EXCAVATION AND INSTALLATION. SEDIMENT LADEN OVERBURDEN AND DEPOSITION SHALL BE REMOVED FROM THE FACILITY TO PROVIDE A FREE DRAINING SUBGRADE. CONTRACTOR TO TEST PIT FACILITY PRIOR TO INSTALLATION TO DETERMINE DEPTH TO LIMITING ZONE (WATER TABLE). PLACEMENT OF THE SOIL MEDIA SHALL BE DONE IN TWO (2) LIFTS TO THE DEPTH SHOWN ON THE DETAIL. OVERFILLING IS RECOMMENDED TO ACCOUNT FOR SETTLEMENT. LIGHT HAND TAMPING IS ACCEPTABLE IF NECESSARY. PRESOAK THE PLANTING SOIL PRIOR TO PLANTING VEGETATION TO AID IN SETTLEMENT. EROSION CONTROL BLANKET OR HYDROSEED SHALL BE APPLIED TO THE BOTTOM OF THE FACILITY TO PROMOTE	 (SEE MATERIAL SPECIFICATIONS): A. SOIL MEDIA (MATERIAL RECEIPT AND TESTING RESULTS OR PRE-CERTIFIED MEDIA RECEIPT) 2. FIELD MEASURE EXCAVATED BOTTOM FOR GENERAL CONFORMANCE WITH THE REQUIRED SURFACE AREA OF BED. 3. PROBE THE BOTTOM OF FACILITY WITH A SOIL PROBE TO VERIFY DEPTH TO LIMITING ZONE. 4. REVIEW OF FACILITY BOTTOM TO CONFIRM A FREE-DRAINING (UN-COMPACTED), SEDIMENT FREE SUBGRADE. 5. PLACEMENT OF SOIL MEDIA TO DEPTH SPECIFIED ON PLAN. 6. VISUAL INSPECTION OF RISER STRUCTURE, TRASH RACK, EMERGENCY 	THE AREAS OF VEGETATION WHICH FAIL TO SUSTAIN YEARLY GROWTH ARE TO BE REPLANTED OR RESEEDED ON A YEARLY BASIS OR UNTIL CONSISTENT GERMINATION CAN BE SUSTAINED. SHRUBS, FORBS OR GRASSES WHICH ARE DEAD ARE TO BE REPLACED DURING GERMINATION PERIODS. VEGETATION ON THE EMBANKMENT AND SIDESLOPES SHALL BE MOWED ANYTIME THE VEGETATION IS GREATER THAN 6" IN HEIGHT OR AS REQUIRED BY THE MUNICIPALITY MATERIALS THAT ARE REMOVED MUST BE DISPOSED IN ACCORDANCE WITH APPLICABLE REGULATIONS. CARE SHALL BE TAKEN NOT TO DAMAGE THE REMAINING STRUCTURES/PIPING WITHIN THE FACILITY, DURING THE MAINTENANCE OPERATIONS. REGULAR MAINTENANCE: (AFTER EACH MEASURABLE STORM EVENT (0.25 INCH OR GREATER) OR A MINIMUM OF TWICE PER YEAR): REFER TO THE BMP SEEDING SPECIFICATIONS AND DEBRIS FROM THE FACILITY REFER TO THE BMP SEEDING SPECIFICATIONS AND OPERATION AND MAINTENANCE NOTES INCLUDED AS PART OF THE PROJECT'S LANDSCAPE PLAN FOR ANNUAL MAINTENANCE REQUIREMENTS; REMOVE CLIPPINGS AND INVASIVE PLANTS IF 72 HOURS AFTER A RAINFALL EVENT, PONDING WATER IS FOUND WITHIN THE PRINCIPAL SPILLWAY OR ON THE SURFACE ABOVE THE FACILITY, THE FACILITY IS NOT OPERATING PROPERLY. IF THE FACILITY IS NOT DRAINING PROPERLY, UTILIZE THE UNDERDRAIN SYSTEM (IF APPLICABLE) OR PUMP FOR DEWATERING. REMOVE AND REPLACE AREAS OF SOIL MEDIA WHICH APPEAR TO HAVE SEDIMENT ACCUMULATION, CLOGGED, OR HOLDING WATER. INSPECT THE FACILITY FOR RILLS ON THE EMERGENCY SPILLWAY, INTERIOR, AND EXTERIOR EMBANKMENT SLOPES. REPAIR RILL AREAS WITH CLEAN FILL AND TOPSOIL WITH LIGHT TAMPING; RESEED DISTURBED AREAS.
REMOVE AND REPLACE AREAS OF SOIL MEDIA WHICH APPEAR TO HAVE SEDIMENT AMPING IS ACCEPTABLE IF NECESSARY. PRESOAK THE PLANTING SOIL PRIOR TO PLANTING VEGETATION TO AID IN SETTLEMENT. EROSION CONTROL BLANKET OR HYDROSEED SHALL BE APPLIED TO THE BOTTOM OF THE FACILITY TO PROMOTE EARLY STABILIZATION AND ESTABLISHMENT. PLANT VEGETATION ACCORDING WITH THE APPROVED LANDSCAPE PLAN AND DETAILS. PLANT VEGETATION AND DETAILS. PLANT VEGETATION ACCORDING WITH THE APPROVED LANDSCAPE PLAN AND DETAILS. POOLUMENTATION REQUIREMENTS: OCCUMENTATION REQUIREMENTS: DOCUMENTATION REQUIREMENTS: PREMOVE AND REPLACE AREAS OF SOIL MEDIA WHICH APPEAR TO HAVE SEDIMENT ACCUMULATION, CLOGGED, OR HOLDING WATER. INSPECT THE FACILITY FOR RILLS ON THE EMERGENCY SPILLWAY, INTERIOR, AND EXTERIOR EMBANKMENT SLOPES. REPAIR RILL AREAS WITH CLEAN FILL AND TOPSOIL WITH LIGHT TAMPING; RESEED DISTURBE! AND REMAINING APPURTENANCES. OCOMMENTATION REQUIREMENTS: DOCUMENTATION REQUIREMENTS: PREPARE ANNUAL INSPECTION REPORTS AS REQUIRED BY THE MUNICIPAL ORDINANCE AND STORMWATER AGREEMENT.	DETENTION FACILITY	 PLANT VEGETATION ACCORDING WITH THE APPROVED LANDSCAPE PLAN AND DETAILS. AT ALL TIMES DURING CONSTRUCTION THE FACILITY SHALL BE PROTECTED FROM COMPACTION (WITHIN TWO FEET OF THE SUBGRADE OF THE FACILITY). THE FACILITY MAY NOT RECEIVE RUNOFF UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA TO FACILITY HAS RECEIVED FINAL STABILIZATION. UPLAND TRIBUTARY CONVEYANCE FACILITIES SHALL BE FLUSHED AND SEDIMENT REMOVED. CONTRACTOR SHALL PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE FACILITY. CONTRACTOR SHALL USE LOW-PRESSURE EQUIPMENT AND UTILIZE NON-INFILTRATION AREAS FOR EQUIPMENT STAGING TO PERFORM EXCAVATION AND INSTALLATION. SEDIMENT LADEN OVERBURDEN AND DEPOSITION SHALL BE REMOVED FROM THE FACILITY TO PROVIDE A FREE DRAINING SUBGRADE. CONTRACTOR TO TEST PIT FACILITY PRIOR TO INSTALLATION TO DETERMINE DEPTH TO LIMITING ZONE (WATER TABLE). PLACEMENT OF THE SOIL MEDIA SHALL BE DONE IN TWO (2) 	(SEE MATERIAL SPECIFICATIONS): A. OUTFALL BARREL PIPE B. ANTI-SEEP COLLAR C. CORE MATERIAL 2. CUTOFF TRENCH AND CLAY CORE. 3. INSTALLATION OF OUTFALL BARREL, CONCRETE CRADLE, AND ANTI-SEEP COLLAR. 4. FIELD MEASURE EXCAVATED BOTTOM FOR GENERAL CONFORMANCE WITH THE REQUIRED SURFACE AREA OF BED. 5. VISUAL INSPECTION OF RISER STRUCTURE, TRASH RACK, EMERGENCY	AND REMAINING APPURTENANCES. CONTACT PROJECT ENGINEER FOR REPAIR SOLUTIONS IF THESE COMPONENTS ARE DAMAGED. DOCUMENTATION REQUIREMENTS: PREPARE ANNUAL INSPECTION REPORTS AS REQUIRED BY THE MUNICIPAL ORDINANCE AND STORMWATER AGREEMENT. PREPARE AND MAINTAIN INSPECTION, REPAIR, AND REPLACEMENT LOGS/REPORTS IN ACCORDANCE WITH PA DEP CHAPTER 102 REGULATIONS AND THE CONDITIONS OF THE NPDES PERMIT. GENERAL REQUIREMENTS: THE AREAS OF VEGETATION WHICH FAIL TO SUSTAIN YEARLY GROWTH ARE TO BE REPLANTED OR RESEEDED ON A YEARLY BASIS OR UNTIL CONSISTENT GERMINATION CAN BE SUSTAINED. SHRUBS, FORBS OR GRASSES WHICH ARE DEAD ARE TO BE REPLACED DURING GERMINATION PERIODS. VEGETATION ON THE EMBANKMENT AND SIDESLOPES SHALL BE MOWED ANYTIME THE VEGETATION IS GREATER THAN 6" IN HEIGHT OR AS REQUIRED BY THE MUNICIPALITY MATERIALS THAT ARE REMOVED MUST BE DISPOSED IN ACCORDANCE WITH APPLICABLE REGULATIONS. CARE SHALL BE TAKEN NOT TO DAMAGE THE REMAINING STRUCTURES/PIPING WITHIN THE FACILITY, DURING THE MAINTENANCE OPERATIONS. REGULAR MAINTENANCE: (AFTER EACH MEASURABLE STORM EVENT (0.25 INCH OR GREATER) OR A MINIMUM OF TWICE PER YEAR): REGULAR MAINTENANCE: (AFTER EACH MEASURABLE STORM EVENT (0.25 INCH OR GREATER) OR A MINIMUM OF TWICE PER YEAR): REGULAR MAINTENANCE: (AFTER EACH MEASURABLE STORM EVENT (0.25 INCH OR GREATER) OR A MINIMUM OF TWICE PER YEAR): REGULAR MAINTENANCE: (AFTER EACH MEASURABLE STORM EVENT (0.25 INCH OR GREATER) OR A MINIMUM OF TWICE PER YEAR): FREMOVE ACCUMULATED SEDIMENT, TRASH, AND DEBRIS FROM THE FACILITY REFER TO THE BMP SEEDING SPECIFICATIONS AND OPERATION AND MAINTENANCE REQUIREMENTS; REMOVE CLIPPINGS AND INVASIVE PLANTS IF 72 HOURS AFTER A RAINFALL EVENT, PONDING WATER IS FOUND WITHIN THE PRINCIPAL SPILLWAY OR ON THE SURFACE ABOVE THE FACILITY, THE FACILITY IS NOT OPERATING PROPERLY. IF THE FACILITY IS NOT DRAINING PROPERLY, UTILIZE THE UNDERDRAIN SYSTEM (IF APPLICABLE)
OPERATION & MAINTENANCE NOTES OPERATION & MAINTENANCE NOTES		TAMPING IS ACCEPTABLE IF NECESSARY. PRESOAK THE PLANTING SOIL PRIOR TO PLANTING VEGETATION TO AID IN SETTLEMENT. EROSION CONTROL BLANKET OR HYDROSEED SHALL BE APPLIED TO THE BOTTOM OF THE FACILITY TO PROMOTE EARLY STABILIZATION AND ESTABLISHMENT. PLANT VEGETATION ACCORDING WITH THE APPROVED LANDSCAPE PLAN AND DETAILS.	OPERATION & MAINTENANCE N	 REMOVE AND REPLACE AREAS OF SOIL MEDIA WHICH APPEAR TO HAVE SEDIMENT ACCUMULATION, CLOGGED, OR HOLDING WATER. INSPECT THE FACILITY FOR RILLS ON THE EMERGENCY SPILLWAY, INTERIOR, AND EXTERIOR EMBANKMENT SLOPES. REPAIR RILL AREAS WITH CLEAN FILL AND TOPSOIL WITH LIGHT TAMPING; RESEED DISTURBED AREAS. INSPECTION PRINCIPAL SPILLWAY OUTLET STRUCTURE, OUTFALL BARREL, VELOCITY DISSIPATER, AND REMAINING APPURTENANCES. CONTACT PROJECT ENGINEER FOR REPAIR SOLUTIONS IF THESE COMPONENTS ARE DAMAGED. DOCUMENTATION REQUIREMENTS: PREPARE ANNUAL INSPECTION REPORTS AS REQUIRED BY THE MUNICIPAL ORDINANCE AND STORMWATER AGREEMENT. PREPARE AND MAINTAIN INSPECTION, REPAIR, AND REPLACEMENT LOGS/REPORTS IN ACCORDANCE WITH PA DEP CHAPTER 102 REGULATIONS AND THE CONDITIONS OF THE NPDES PERMIT.

NOT FOR BID / NOT FOR CONSTRUCTION

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MANAGER:

PROJECT NO

2024A84-0 CHRIS VENARCHIC

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