

PRELIMINARY / FINAL SUBDIVISION & LAND DEVELOPMENT PLAN

FOR

LOWER ALLEN COMMONS

3525 GETTYSBURG ROAD
LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PA

LOCATION MAP

GRAPHIC SCALE
400 200 0 400
SCALE: 1"=400'
SCALE IN FEET

ACT 287 LIST OF UTILITIES

THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF ACT 287 OF 1974 AS AMENDED BY ACT 187 OF 1998 AND ACT 50 OF 2017 FOR NOTIFICATION OF UTILITIES BEFORE EXCAVATION IN CONTRACT AREA. THE ONE UNDERGROUND UTILITIES LOCATION CALL NUMBER IS 1-800-242-1776. DESIGN SERIAL NUMBER IS 20183380628, SUBMITTED ON 12/04/2018.

UTILITIES AND RESPONSES PROVIDED BY PA ONE CALL:

(AH) WINDSTREAM 929 MARTHAS WAY HIAWATHA, IA 52233 CONTACT: LOCATE DESK PERSONNEL EMAIL: locate.desk@windstream.com	(LAL) LOWER ALLEN TOWNSHIP 2233 GETTYSBURG ROAD CAMP HILL, PA 17011 CONTACT: DANIEL FLINT EMAIL: dflint@lctwp.org
(AX) PENNSYLVANIA AMERICAN WATER 852 WESLEY DR MECHANICSBURG, PA 17055 CONTACT: MICHAEL GENNOE EMAIL: michael.gennoe@paawater.com	(PRD) PPL ELECTRIC UTILITIES CORPORATION 503 NEW MARKET ST WILKES BARRE, PA 18702 CONTACT: MARC SANTAYANA EMAIL: mcsantayana@pplweb.com
(CTI) FRONTIER COMMUNICATIONS OF PA INC. 67 SOUTH MAIN STREET SHICKSHINNY, PA 18655 CONTACT: JOHN BUGDONOVITCH EMAIL: john.bugdonovitch@ftr.com	(SB) COMCAST 4601 SMITH STREET HARRISBURG, PA 17109 CONTACT: MICHAEL SWIARD EMAIL: mike.swiard@comcast.com
(HC) VERIZON PENNSYLVANIA LLC 1026 HAY STREET PITTSBURGH, PA 15221 CONTACT: DEBORAH BARUM EMAIL: deborah.d.barum@verizon.com	(TW) CENTURY LINK 120 BALTIMORE STREET PO BOX 896 HARRISBURG, PA 17101 CONTACT: LEO HILBERT EMAIL: leo.chilbert@centurylink.com
(LA1) LOWER ALLEN TOWNSHIP AUTHORITY 120 UMEKLIN ROAD NEWTON, PA 17070 CONTACT: BRIAN KAUFFMAN EMAIL: bkauffman@lctwp.org	(U) UGI UTILITIES INC 1301 MP DRIVE MIDDLETON, PA 17057 CONTACT: STEPHEN BATEMAN EMAIL: sbateman@ugi.com

Pennsylvania One Call System Response List

Responses for Serial Number: 20183380628 as of 2/10/2020 11:46 AM	
AM	WINDSTREAM CLEAR - NO FACILITIES * 12/04/2018 21:57:35
AM	PENNSYLVANIA AMERICAN WATER DESIGN CONFLICT, PLEASE SEND PLANS TO: JEFF MORAN PENNSYLVANIA AMERICAN WATER 852 WESLEY DR MECHANICSBURG, PA 17055 * 12/04/2018 09:18:19
CTI	FRONTIER COMMUNICATIONS (CTI) INC. CONFLICT, LINES HEAVY, DIRECT CONTACT TO FOLLOW BY FACILITY OWNER * 12/04/2018 10:42:17
HC	VERIZON PENNSYLVANIA LLC CLEAR - NO FACILITIES * 12/04/2018 10:09:57
LA1	LOWER ALLEN TOWNSHIP AUTHORITY ENGINEERING COMPLETED - A PDF FILE OR MARKED UP PLANS WERE SENT TO THE REQUESTOR * 12/04/2018 11:24:00
LA1	LOWER ALLEN TOWNSHIP ENGINEERING COMPLETED - A PDF FILE OR MARKED UP PLANS WERE SENT TO THE REQUESTOR * 12/05/2018 15:52:18
PRD	PPL ELECTRIC UTILITIES CORPORATION ENGINEERING COMPLETED - A PDF FILE OR MARKED UP PLANS WERE SENT TO THE REQUESTOR * 12/20/2018 12:57:55
SB	CONCAT CABLE COMMUNICATIONS INC CONFLICT, LINES HEAVY, DIRECT CONTACT TO FOLLOW BY FACILITY OWNER * 12/04/2018 15:42:18
TW	CENTURYLINK FORMERLY INBANG FIELD MARKED * 12/04/2018 15:42:25
UJ	UGI UTILITIES INC-HARRISBURG ENGINEERING COMPLETED - A PDF FILE OR MARKED UP PLANS WERE SENT TO THE REQUESTOR * 02/07/2019 11:55:28

Sheet List Table

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- GD-1 GRADING & DRAINAGE PLAN
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- EC-2 EROSION & SEDIMENTATION CONTROL NOTES
- EC-3 EROSION & SEDIMENTATION CONTROL DETAILS
- EC-4 EROSION & SEDIMENTATION CONTROL DETAILS

PREPARED FOR:

Lower Allen Township
Development Authority

2233 Gettysburg Road
Camp Hill, PA 17011
(717) 975-7575

PREPARED BY:

BL
Companies
ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING

2601 Market Place, Suite 350
Harrisburg, PA 17110
(717) 651-9850
(717) 651-9858 Fax

CUMBERLAND COUNTY PLANNING DEPARTMENT REVIEW CERTIFICATION

REVIEWED THIS 2 DAY OF MAR, 2020 BY THE CUMBERLAND COUNTY PLANNING
DEPARTMENT.

DIRECTOR Kirk Sot /SH)

LOWER ALLEN TOWNSHIP BOARD OF COMMISSIONERS APPROVAL

APPROVED BY THE BOARD OF COMMISSIONERS, LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PA.
APPROVED THE 27 DAY OF APRIL, 2020

CONDITIONS OF APPROVAL COMPLETED THIS 26 DAY OF AUGUST, 2020

PRESIDENT D. ... /S
SECRETARY Helen Grunder /S

CERTIFICATE OF OWNERSHIP, ACKNOWLEDGEMENT OF PLAN, AND OFFER OF DEDICATION

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF Cumberland SS

ON THIS, THE 24 DAY OF August, 2020, BEFORE ME Helen Grunder, THE UNDERSIGNED
OFFICER, PERSONALLY APPEARED Max Stoner, KNOWN TO ME (OR SATISFACTORILY PROVEN TO

BE THE PERSON(S) WHOSE NAME(S) IS/ARE SUBSCRIBED TO THE WITHIN INSTRUMENT, AND

ACKNOWLEDGED THAT He EXECUTED THE SAME FOR THE PURPOSES THEREIN CONTAINED.

IN WITNESS WHEREOF, I HEREBUTO
SET MY HAND AND OFFICIAL SEAL

Max E. Stoner
MAX E. STONER

LOWER ALLEN TOWNSHIP DEVELOPMENT
AUTHORITY CHAIRMAN

Helen Grunder
HELEN ANNE GRUNDER

NOTARY Commonwealth of Pennsylvania - Notary Seal
Helen Grunder Notary Public
Cumberland County
My commission expires January 28, 2023
Commission number 1287508
Member, Pennsylvania Association of Notaries

LANDOWNERS

Lower Allen Township Development Authority
2233 Gettysburg Road
Camp Hill, PA 17011
(717) 975-7575

DEVELOPER / APPLICANT

Lower Allen Township Development Authority
2233 Gettysburg Road
Camp Hill, PA 17011
(717) 975-7575

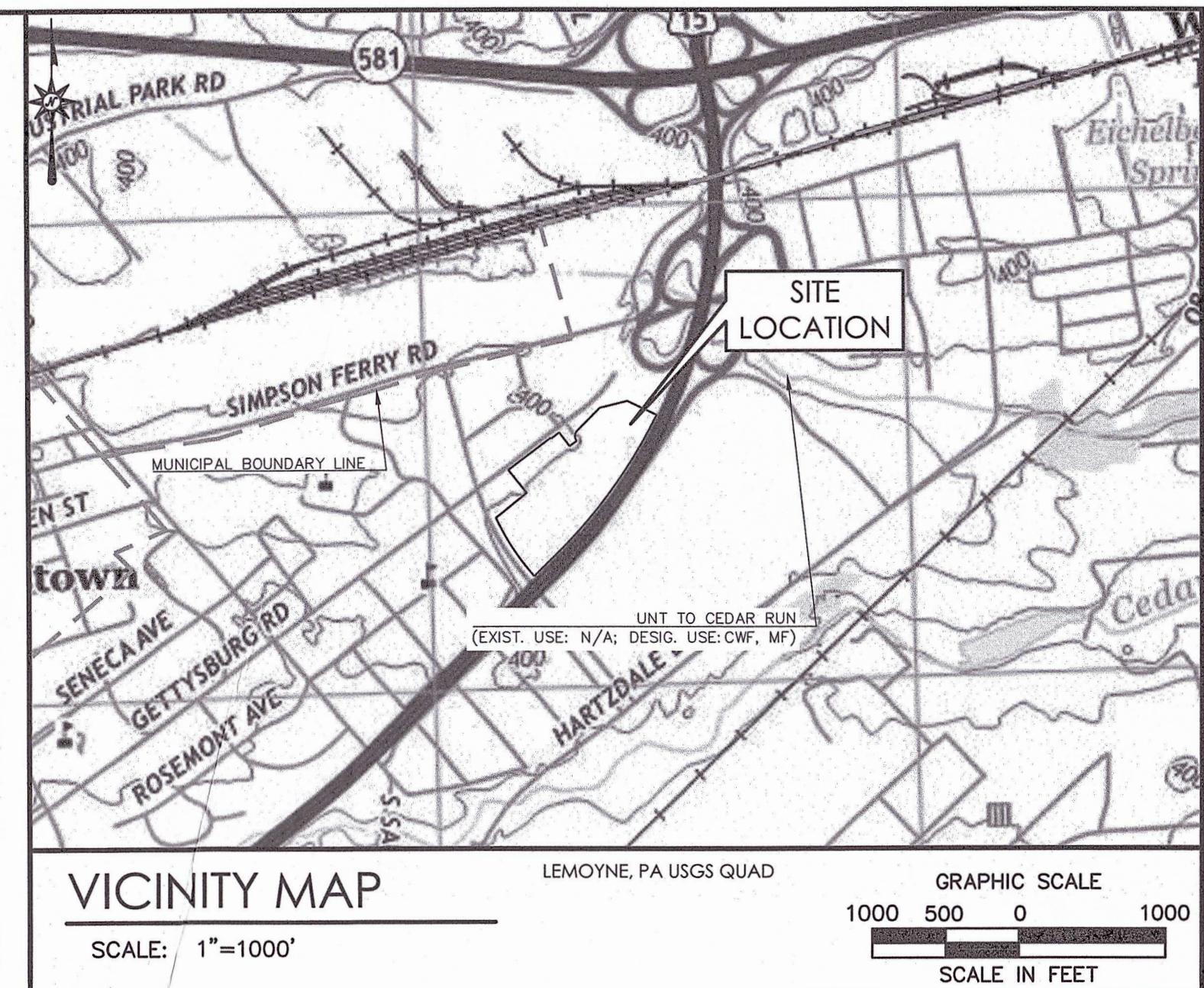
DATES

ISSUE DATE: FEBRUARY 18, 2020
REVISIONS: APRIL 6, 2020
MAY 7, 2020
JUNE 2, 2020

PLAN PURPOSE

THE PURPOSE OF THIS PLAN IS TO PERMIT FOR THE BULK
GRADING AND STORMWATER MANAGEMENT OF LOWER
ALLEN COMMONS AS WELL AS THE CONSTRUCTION OF
A NEW MAIN ACCESS DRIVE ON LANDS LOCATED IN
LOWER ALLEN TOWNSHIP.

CV-1 No. 1 of 17



VICINITY MAP

LEMOYNE, PA USGS QUAD
GRAPHIC SCALE
1000 500 0 1000
SCALE IN FEET

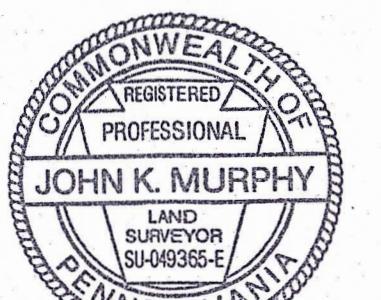
CERTIFICATION OF ACCURACY

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE SURVEY
AND PLAN SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT.

JOHN K. MURPHY P.L.S.
REG. NO. SU-049365-E

8/12/20

DATE



ENGINEER'S CERTIFICATION

I, ALARIC J. BUSHER, P.E., A REGISTERED PROFESSIONAL ENGINEER IN THE
COMMONWEALTH OF PENNSYLVANIA, HEREBY CERTIFY THAT TO THE BEST OF MY
KNOWLEDGE THIS PLAN IS ACCURATE AND CORRECT AS INDICATED.

ALARIC J. BUSHER
REG. NO. PE 60320

AUGUST 24, 2020



SITE PLAN NOTES

- ALL CONSTRUCTION SHALL COMPLY WITH LOWER ALLEN TOWNSHIP, PENNSYLVANIA DEPARTMENT OF TRANSPORTATION (PENNDOT) STANDARDS AND SPECIFICATIONS. IN THE ABOVE REFERENCED INCREASING HIERARCHY, IF ANY SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL STATE AND LOCAL REGULATIONS.
- THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY CONSTRUCTION PERMITS, INCLUDING PENNDOT, PIPES AND SEWER AND WATER CONNECTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE CIVIL ENGINEER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO BIDDING. ANY CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CONFIRMED WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO BIDDING.
- ALL CONTRACTORS AND SUBCONTRACTORS SHALL OBTAIN COMPLETE DRAWING PLAN SETS FOR BIDDING AND CONSTRUCTION. PLAN SETS SHALL NOT BE DISASSEMBLED INTO PARTS. PLAN SETS FOR USE BY CONTRACTORS AND SUBCONTRACTORS OF INDIVIDUAL TRADES, IT SHALL BE THE CONTRACTOR'S AND SUBCONTRACTOR'S RESPONSIBILITY TO OBTAIN COMPLETE PLAN SETS FOR USE IN BIDDING AND CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE SITE ENGINEER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS.
- CONTRACTOR(S) TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK AND BE RESPONSIBLE FOR COORDINATION SAME. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, MATERIALS PER PLANS AND SPECIFICATIONS TO THE OWNER AND CIVIL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
- THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION NOTES PROVIDED ON THE EROSION & SEDIMENTATION CONTROL PLAN NOTES/DETAILS.
- ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURBS OR EDGE OF PAVING UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE.
- DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
- DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN OVER SCALED DIMENSIONS.
- THE WORD "MEET" ON THIS PLAN MEANS CONTRACTOR TO MATCH AND TIE TO EXISTING SURFACE ELEVATION. THE WORD "PROVIDE" ON THE PLAN SET MEANS CONTRACTOR TO PROVIDE, FURNISH, AND INSTALL.
- ALL NOTES AND DIMENSIONS DESIGNATED "TYPICAL" OR "TYP" APPLY TO ALL LIKE OR SIMILAR CONDITIONS THROUGHOUT THE PROJECT.
- IF PLANS AND OR SPECIFICATIONS ARE IN CONFLICT, THE MOST STRINGENT SHALL APPLY.
- THE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND CONSTRUCTION DETAILS OF BUILDING.
- SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE OWNER AND ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES, TRAFFIC CONTROLLERS AND UNIFORMED TRAFFIC OFFICERS AS REQUIRED, ORDERED BY THE ENGINEER OR REQUIRED BY THE LOCAL GOVERNING AUTHORITIES OR AS REQUIRED BY PERMIT STIPULATIONS.
- REFER TO DETAIL SHEETS FOR PAVEMENT, CURBING, AND SIDEWALK INFORMATION.
- TRAFFIC CONTROL SIGNS SHALL CONFORM TO PENNDOT STANDARD DETAIL SHEETS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SIGNS SHALL BE INSTALLED PLUMB WITH THE EDGE OF THE SIGN 2' OFF THE FACE OF THE CURB, AND WITH 7' VERTICAL CLEARANCE UNLESS OTHERWISE DETAILED OR NOTED.
- THE CONTRACT LIMIT IS THE LIMIT OF DISTURBANCE LINE UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY UTILITY COMPANY FEES SHALL BE PAID FOR BY THE CONTRACTOR.
- THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PAINT MIXTURE PRIOR TO STRIPING. ALL PAINT STRIPING SHALL HAVE A MINIMUM OF 2 COATS OF PAINT.
- PAVEMENT MARKING KEY:

4" SYL	4" SOLID YELLOW DOUBLE LINE	4" SRL	4" SOLID RED LINE
4" SYL	4" SOLID YELLOW LINE	12" SWSB	12" SOLID WHITE STOP BAR
24" SYL	24" SOLID YELLOW LINE	24" SWSB	24" SOLID WHITE STOP BAR
4" SWL	4" SOLID WHITE LINE	6" BWL	6" BROKEN WHITE LINE
24" SWL	24" SOLID WHITE LINE	6" AWL	6" AUXILIARY WHITE LINE
6" SWL	6" SOLID WHITE LINE		
- PARKING SPACES SHALL BE STRIPED WITH 4" SYL; HATCHED AREA SHALL BE STRIPED WITH 4" SYL AT A 45° ANGLE, 2' ON CENTER. HATCHING SYMBOLS, AND STRIPING FOR HANDICAPPED SPACES SHALL BE PAINTED BLUE. OTHER MARKINGS SHALL BE PAINTED WHITE OR AS NOTED.
- STOP BAR AND STOP LEGEND MARKINGS SHALL BE HOT THERMOPLASTIC TYPE IN ACCORDANCE WITH PENNDOT SPECIFICATIONS, UNLESS WHERE EPOXY RESIN PAVEMENT MARKINGS ARE INDICATED.
- THE CONTRACTOR SHALL REMOVE CONFLICTING PAVEMENT MARKINGS BY METHOD APPROVED BY PENNDOT.
- THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS OR SIGNAGE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE A TOPOGRAPHIC SIGNED AND SEALED AS-BUILT SURVEY BY A STATE LICENSED LAND SURVEYOR AND RECORD DRAWINGS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES AND STORMWATER MANAGEMENT FACILITIES) TO THE OWNER AND THE TOWNSHIP AT THE END OF CONSTRUCTION AND IN CONFORMANCE WITH THE SPECIFICATIONS.
- THE ENGINEER IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ENGINEER HAS NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
- THE CONTRACTOR SHALL COMPLY WITH CFR 29 PART 1926 FOR EXCAVATION TRENCHING AND TRENCH PROTECTION REQUIREMENTS.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, SITE ENGINEER, AND APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION DURING THE BIDDING PROCESS.
- NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLAN IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
- THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
- CONSTRUCTION OCCURRING ON THIS SITE SHALL COMPLY WITH NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, AND CHAPTER 16 OF NFPA 1, UNIFORMED FIRE CODE.
- NEW BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS PLACED IN A POSITION TO BE PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY PER THE NFPA CODE.
- ANY COMPONENTS TO REMAIN OR BE PROTECTED THAT ARE DAMAGED DURING DEMOLITION AND/OR SALVAGE OPERATIONS SHALL BE REPLACED IN KIND AT THE EXPENSE OF THE CONTRACTOR.
- ALL EXISTING AND PROPOSED EASEMENTS ON OR AFFECTING THE SITE ARE SHOWN ON THE PLANS.
- A COPY OF THE APPROVAL FROM THE PA DEPARTMENT OF LABOR AND INDUSTRY, WHERE APPLICABLE, SHALL BE PROVIDED BEFORE A BUILDING PERMIT IS ISSUED.
- NEITHER THE DEPARTMENT NOR ANY MUNICIPALITY TO WHICH PERMIT-ISSUING AUTHORITY HAS BEEN DELEGATED UNDER THE "STATE HIGHWAY LAW" SHALL BE LIABLE FOR DAMAGES FOR ANY INJURY TO PERSONS OR PROPERTY ARISING OUT OF THE EXERCISE OF DUTIES BY THE CONTRACTOR OR THE OWNER TO REMOVE A DRIVEWAY. FURTHERMORE, THE TOWNSHIP SHALL NOT BE HELD LIABLE FOR DAMAGES TO PERSONS OR PROPERTY ARISING OUT OF THE ISSUANCE OR DENIAL OF A DRIVEWAY PERMIT BY THE DEPARTMENT.
- CONTRACTOR TO ERECT AND INSTALL "BL COMPANIES" SIGN PRIOR TO CONSTRUCTION. COORDINATE LOCATION WITH TOWNSHIP AND ENGINEER. CONTRACTOR TO MAINTAIN SIGN DURING CONSTRUCTION AND RETURN SIGN TO ENGINEER AFTER COMPLETION OF SITE CONSTRUCTION.
- NO PARKING FIRE ZONES, FIRE LANES AND/OR SIGNAGE SHALL BE ESTABLISHED AND PROPERLY DESIGNATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FIRE DISTRICT FIRE MARSHAL AND SHALL BE PROVIDED TO THE SATISFACTION TO THE TOWNSHIP/FIRE MARSHALL.

GRADING AND DRAINAGE GENERAL NOTES

- A FIRE DEPARTMENT ACCESS BOX (KNOX BOX) SHALL BE INSTALLED. THIS BOX WILL BE REQUIRED TO CONTAIN KEYS TO THE BUILDING, GATES, FIRE PROTECTION SYSTEM AND OTHER AREAS REQUESTED BY THE FIRE DEPARTMENT.
- PURSUANT TO SECTION 420 OF THE ACT OF JUNE 1, 1945 (P.L. 1242, No. 428), AS AMENDED, A HIGHWAY OCCUPANCY PERMIT WILL BE REQUIRED BEFORE ANY IMPROVEMENTS ARE INITIATED WITHIN A STATE HIGHWAY [RIGHT-OF-WAY].
- ALL WORK SHALL BE IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SPECIFICATIONS AND PUBLICATION 72, ROADWAY CONSTRUCTION STANDARDS, UNLESS OTHERWISE NOTED.
- WORK ZONE TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH PENNDOT PUBLICATION 213.
- A RIGHT-OF-WAY PERMIT IS REQUIRED BEFORE STARTING ANY WORK WITHIN THE PUBLIC STREET RIGHT-OF-WAY.
- THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS. ALL PAVEMENT MARKINGS SHALL BE HOT THERMOPLASTIC.
- ALL STORM DRAINAGE PIPE SHALL BE SMOOTH INTERIOR UNLESS OTHERWISE NOTED.
- LOT OWNERS ARE REQUIRED TO MAINTAIN LOT GRADING AND SURFACE DRAINAGE PATTERNS AND CHARACTERISTICS IN ACCORDANCE WITH THE APPROVED PLAN.
- MANHOLE COVERS FOR STORM MANHOLES SHALL BE CAST WITH THE WORD "STORM" FOR IDENTIFICATION PURPOSE.
- CONSTRUCTION OF ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY AND WORK RELATED TO STORM DRAINAGE FACILITIES REQUIRES INSPECTION BY THE TOWNSHIP. PROVIDE A MINIMUM 48 HOURS NOTICE TO THE TOWNSHIP BEFORE STARTING WORK.
- CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION SITE MEETING WITH THE TOWNSHIP ENGINEER AT LEAST 48 HOURS PRIOR TO STARTING SITE CONSTRUCTION ACTIVITIES.
- SITE DISTURBANCE IS PERMITTED TO START ONLY IF AND WHEN SUFFICIENT TIME IS AVAILABLE TO STABILIZE DISTURBED AREAS IN ACCORDANCE WITH PADEP REQUIREMENTS AND WITH THE APPROVED PLAN.

DEMOLITION NOTES

- CONTRACTOR SHALL SECURE ANY PERMITS, PAY ALL FEES AND PERFORM CLEARING AND GRUBBING AND DEBRIS REMOVAL PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.
- EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE EROSION AND SEDIMENTATION PLAN SHALL BE INSTALLED BY THE DEMOLITION CONTRACTOR PRIOR TO START OF DEMOLITION, AND CLEARING AND GRUBBING OPERATIONS.
- REMOVE AND DISPOSE OF ANY DEMOLITION MATERIAL, DEBRIS AND RUBBISH REQUIRING REMOVAL FROM THE WORK AREA IN AN APPROVED OFF SITE LANDFILL, BY AN APPROVED HAULER. HAULER SHALL COMPLY WITH ALL REGULATORY REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK.
- THE CONTRACTOR SHALL PREPARE ALL MANIFEST DOCUMENTS AS REQUIRED PRIOR TO COMMENCEMENT OF DEMOLITION.
- THE CONTRACTOR SHALL CUT AND PLUG, OR ARRANGE FOR THE APPROPRIATE UTILITY COMPANY TO CUT AND PLUG ALL SERVICE PIPING AS REQUIRED, OR AS OTHERWISE NOTED HEREON. ALL SERVICES MAY NOT BE SHOWN ON THIS PLAN. THE CONTRACTOR SHALL INVESTIGATE THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTENT OF SERVICE PIPING TO BE REMOVED, CUT OR PLUGGED. THE OWNER SHALL PAY ALL UTILITY CO. PROVIDER FEES FOR DEMOLITION AND REMOVALS.
- THE CONTRACTOR SHALL PROTECT ALL IRON PINS, MONUMENTS AND PROPERTY CORNERS DURING DEMOLITION ACTIVITIES. ANY CONTRACTOR DISTURBED PINS, MONUMENTS, AND OR PROPERTY CORNERS, ETC. SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
- THE DEMOLITION CONTRACTOR SHALL STABILIZE THE SITE AND KEEP EROSION CONTROL MEASURES IN PLACE UNTIL THE COMPLETION OF HIS WORK OR UNTIL THE COMMENCEMENT OF WORK BY THE SITE CONTRACTOR, WHOEVER OCCURS FIRST, AS REQUIRED OR DEMANDED NECESSARY BY THE ENGINEER OR OWNER'S REPRESENTATIVE. THE SITE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE MAINTENANCE OF EXISTING EROSION AND SEDIMENT CONTROLS AND FOR INSTALLATION OF ANY NEW EROSION AND SEDIMENT CONTROLS AS PER THE EROSION AND SEDIMENTATION POLLUTION CONTROL PLAN, AT THAT TIME.
- THE CONTRACTOR SHALL ADHERE TO ALL OSHA, FEDERAL, STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY UTILITY COMPANY FEES SHALL BE PAID BY THE CONTRACTOR.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNAL LIGHTS, FENCES AND UNIFORMED TRAFFIC OFFICERS AS REQUIRED, ORDERED BY THE LOCAL GOVERNING AUTHORITY. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC LANES AND PEDESTRIAN WALKWAYS AT ALL TIMES UNLESS WRITTEN APPROVAL FROM THE APPROPRIATE GOVERNING AGENCY IS GRANTED.
- INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND OWNER'S RECORDS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF EXISTING UTILITIES. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION THE CONTRACTOR SHALL CONTACT PENNSYLVANIA ONE CALL 72 HOURS BEFORE COMMENCEMENT OF WORK AT (800) 242-1776 AND VERIFY ALL UTILITY AND DRAINAGE LOCATIONS.
- THE CONTRACTOR SHALL PROVIDE DISCONNECT NOTIFICATION TO ALL UTILITIES LISTED WITHIN THE PA ONE-CALL INFORMATION PROVIDED ON SHEET CV-1 AT LEAST THREE WEEKS PRIOR TO BEGINNING DEMOLITION.
- BACKFILL TO COMPACT DENSIFIED FOUNDATION HOLES AND REMOVED DRIVEWAY AREAS WITH APPROVED SOIL MATERIAL. SOIL MATERIAL MUST BE DENSIFIED AND RECOMPACTED TO A MAXIMUM OF 95% OF FILL. CONSTRUCTION FOUNDATION AREA SHALL BE BACKFILLED IN 6" LIFTS WITH GRAVEL FILL OR SUITABLE MATERIAL, COMPACTED TO 95% MAX. DRY DENSITY (MODIFIED PROCTOR TEST), PER ASTM D155 AT ± 2% OF OPTIMUM MOISTURE CONTENT, AS SPECIFIED IN THE PROJECT GEOTECHNICAL REPORT. EMPLOY WATERING EQUIPMENT FOR DUST CONTROL.
- THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, DRAINAGE STRUCTURE, SWALE OR LANDSCAPED AREAS DISTURBED DURING DEMOLITION TO THEIR ORIGINAL CONDITION OR BETTER, AS SATISFACTION OF THE OWNER, THE LOWER ALLEN TOWNSHIP AND PENNDOT.
- NO WORK ON THIS SITE SHALL BE INITIATED BY THE CONTRACTOR UNTIL A PRE-CONSTRUCTION MEETING WITH OWNER AND THE PROJECT ENGINEER IS CONFERRED. THE CONTRACTOR SHOULD BE AWARE OF ANY SITE INFORMATION AVAILABLE SUCH AS GEOTECHNICAL AND ENVIRONMENTAL REPORTS, AS WELL AS HAVE ONE CALL DIG MARK OUTS OF EXISTING UTILITIES COMPLETED PRIOR TO MEETING.
- THE CONTRACTOR OR DEMOLITION CONTRACTOR SHALL INSTALL TEMPORARY SHEETING OR SHORING AS NECESSARY FOR PROTECTION DURING CONSTRUCTION AND DEMOLITION. SHEETING OR SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, LICENSED IN THIS STATE AND EVIDENCE OF SUCH SUBMITTED TO THE OWNER PRIOR TO INSTALLATION.
- NO SALVAGE SHALL BE PERMITTED UNLESS PAID TO THE OWNER AS A CREDIT.
- 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.
- THE CONTRACTOR SHALL COMPLY WITH CFR29 PART 1926 FOR EXCAVATION, TRENCHING, AND TRENCH PROTECTION REQUIREMENTS.
- THE CONTRACTOR SHALL NOT COMMENCE DEMOLITION OR UTILITY DISCONNECTIONS UNTIL AUTHORIZED TO DO SO BY THE OWNER.
- CARE SHOULD BE TAKEN TO PREVENT DUST AND DEBRIS FROM LEAVING THE BOUNDARIES OF THE PROPERTY.
- 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. CONDITIONS ENCOUNTERED DURING EXCAVATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 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.
- THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR GETS WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
- UTILITY CONTACTS ARE LISTED ON SHEET CV-1.
- ASBESTOS OR HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.
- DEMOLITION CONTRACTOR SHALL COORDINATE EXISTING FACILITIES UTILITY DISCONNECTS WITH THE RER CONSTRUCTION REPRESENTATIVE A MINIMUM 7 DAYS PRIOR TO ANTICIPATED DEMOLITION OF STRUCTURES.
- CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS SET FOR OTHER PERTINENT INFORMATION.

UTILITY CONSTRUCTION NOTES

- CONTRACTOR/OWNER IS RESPONSIBLE FOR CONTACTING THE LOCAL MUNICIPALITIES TO SECURE PERMITS AND FOR PAYMENT OF FEES FOR STREET CUTS AND CONNECTIONS TO EXISTING UTILITIES.
- THE SITE UTILITY PLAN DETAILS SITE INSTALLED PIPES UP TO 5' FROM THE BUILDING FACE. REFER TO DRAWINGS BY OTHERS FOR BUILDING CONNECTIONS. SITE CONTRACTOR SHALL SUPPLY AND INSTALL PIPE ADAPTERS AS NECESSARY AT BUILDING CONNECTION POINT OR AT EXISTING UTILITY OR PIPE CONNECTION POINT.
- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE SEWERS CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE SITE ENGINEER IN THE EVENT OF ANY DISCOVERED OR UNFORESEEN CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.
- UTILITY CONNECTION DESIGN AS PROVIDED ON THE PLAN MAY CHANGE SUBJECT TO UTILITY CO. AND LOWER ALLEN TOWNSHIP AUTHORITY STAFF REVIEW.
- THE CONTRACTOR SHALL ENSURE THAT ALL UTILITY COMPANIES AND LOWER ALLEN TOWNSHIP AUTHORITY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET. THE CONTRACTOR SHALL PERFORM PROPER COORDINATION WITH THE RESPECTIVE UTILITY COMPANY.
- THE CONTRACTOR SHALL ARRANGE FOR COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES FOR SERVICE INSTALLATION AND CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY COMPANIES AND SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTION, RELOCATIONS, INSPECTIONS, AND DEMOLITION.
- ALL EXISTING PAVEMENT WHERE UTILITY PIPING IS TO BE INSTALLED SHALL BE SAW CUT (UNLESS DEMOLISHED). AFTER UTILITY INSTALLATION IS COMPLETED, THE CONTRACTOR SHALL INSTALL TEMPORARY AND/OR PERMANENT PAVEMENT REPAIR AS DETAILED ON THE PLANS OR AS REQUIRED BY THE PENNDOT OR LOWER ALLEN TOWNSHIP.
- ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- ALL UTILITIES SHALL BE CLEARED BY A MINIMUM OF 1.0'. ALL UTILITY POLES SHALL BE CLEARED BY A MINIMUM OF 2.0' OR TUNNELED IF REQUIRED.
- SANITARY LATERAL SHALL MAINTAIN (10' MIN. HORIZONTAL 1.5' VERTICAL MIN.) SEPARATION DISTANCE FROM WATER LINES, OR ADDITIONAL PROTECTION MEASURES WILL BE REQUIRED WHERE PERMITTED.
- RELOCATION OF UTILITY COMPANY FACILITIES SUCH AS POLES, TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FACILITY OWNERS.
- THE CONTRACTOR SHALL COMPACT THE PIPE BACKFILL IN 6" LIFTS ACCORDING TO THE PIPE BEDDING DETAILS. TRENCH BOTTOM SHALL BE STABILE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED IN AREAS OF ROCK EXCAVATION. STORM SEWERS MAY BE PLACED PRIOR TO PLACING FILL.
- CONTRACTOR SHALL COORDINATE INSTALLATION FOR ELECTRICAL SERVICES TO PYLON SIGNS AND SITE LIGHTING WITH THE BUILDING ELECTRICIAN/ELECTRICAL CONTRACTOR.
- THE SITE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, OR LANDSCAPED AREAS DISTURBED DURING CONSTRUCTION, TO THEIR PRE-CONSTRUCTION CONDITION OR BETTER.
- INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE ARE SHOWN TO ALERT THE CONTRACTOR TO POSSIBLE CONDITIONS. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE, INCLUDING SERVICES. CONTACT, PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE COMMENCEMENT OF WORK AT "1-800-242-1776" AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
- THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES FOR SERVICE INSTALLATIONS AND CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY COMPANIES AND WITH THE LOWER ALLEN TOWNSHIP AUTHORITY AND CONTRACTOR SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTION, RELOCATIONS, INSPECTIONS, AND DEMOLITION.
- ELECTRIC, TELEPHONE, AND CABLE SERVICES FOR THE SITE SHALL BE INSTALLED UNDERGROUND. THE SITE CONTRACTOR SHALL INSTALL AND BACKFILL 2"-4" PVC CONDUITS FOR TELEPHONE AND CABLE SERVICE AND 2"-4" PVC CONDUITS FOR ELECTRIC SERVICE PRIMARY AND SECONDARY PER BUILDING ELECTRICAL PLANS (SCHEDULE 80 UNDER PAVEMENT, SCHEDULE 40 IN NON PAVEMENT AREAS). SERVICES MAY BE INSTALLED IN A COMMON TRENCH WITH 12" CLEAR SPACE BETWEEN. MINIMUM COVER IS 36" ON ELECTRIC CONDUITS, AND 24" ON TELEPHONE AND CABLE CONDUITS. SERVICES SHALL BE MARKED WITH MAGNETIC LOCATOR TAPE AND SHALL BE BEDDED, INSTALLED, AND BURIED IN ACCORDANCE WITH ELECTRIC COMPANY, PLANE COMPANY AND TELEPHONE COMPANY STANDARDS. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATIONS AND TRANSFORMER LOCATIONS. INSTALL CONCRETE ENCASEMENT ON PRIMARY ELECTRIC CONDUITS IF REQUIRED BY ELECTRIC COMPANY.
- ALL WATER LINES TO HAVE A MINIMUM COVER OF 54" AND A MAXIMUM COVER OF 60" UNLESS OTHERWISE APPROVED BY LOWER ALLEN TOWNSHIP.
- ALL WATER MAINS, WATER SERVICES AND SANITARY SEWER LATERAL SHALL CONFORM TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION OR THE APPROPRIATE LOCAL UTILITY COMPANY SPECIFICATIONS, AS WELL AS VAULTS AND ACCESS COVERS IN VEHICULAR TRAFFIC AREAS SHALL BE QUALIFIED FOR H-20 LOADING.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, ENGINEER, UTILITY PROVIDER AND APPROPRIATE REGULATORY AGENCIES PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE OWNERS, THE PROJECT ENGINEER, UTILITY COMPANIES AND GOVERNING AUTHORITIES.
- ANY EXISTING POTABLE WATER WELL(S) IF FOUND SHALL BE ABANDONED AND REMOVED PER THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND HEALTH CODE REQUIREMENTS.
- MANHOLE RIMS AND CATCH BASIN GRATES SHALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE RIMS AND VALVE COVERS TO BE RAISED OR LOWERED FLUSH WITH FINAL GRADE AS NECESSARY.
- ALL SANITARY SEWER AND LATERAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOWER ALLEN TOWNSHIP AUTHORITY'S CONSTRUCTION AND MATERIAL SPECIFICATIONS.
- UTILITY PENETRATIONS AND LOCATIONS ARE SHOWN FOR THE CONTRACTOR'S INFORMATION AND SHALL BE VERIFIED.
- ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION FOR APPROVAL PRIOR TO BACKFILLING IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANY AND/OR THE LOCAL MUNICIPALITIES' REQUIREMENTS.
- A ONE-FOOT MINIMUM CLEARANCE BETWEEN WATER, GAS, ELECTRICAL, AND TELEPHONE LINES AND STORM SEWERS SHALL BE PROVIDED. A SIX-INCH MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN STORM AND SANITARY SEWER WITH A CONCRETE ENCASEMENT.
- CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC., AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING STUB OUTS, INCLUDING ROOF/FOOTING DRAIN CONNECTIONS TO ROOF LEADERS AND TO STORM DRAINAGE SYSTEM.
- EXCAVATIONS SHALL BE BACKFILLED DAILY AND TEMPORARY BERMS OR DIKES SHALL BE CONSTRUCTED AROUND ALL EXCAVATIONS, INCLUDING THOSE FOR UTILITY TRENCHES, BUILDING FOUNDATIONS, ETC., TO PREVENT THE ENTRY OF SURFACE WATER.
- CONTRACTOR SHALL TAKE ALL SPECIAL PRECAUTIONS REQUIRED BY UTILITY COMPANIES FOR PIPE CROSSINGS OF DISMISSED METAL MATERIALS.
- THE CONTRACTOR SHALL SECURE ALL NECESSARY TOWNSHIP AND PENNDOT UTILITY HOPS PRIOR TO THE COMMENCEMENT OF WORK.
- ALL NONRESIDENTIAL USER CONNECTIONS INVOLVED IN FOOD PREPARATION AND/OR SERVICE SHALL HAVE A PROPERLY SIZED OUTSIDE GREASE TRAP UNLESS WAIVED BY THE LOWER ALLEN TOWNSHIP AUTHORITY.

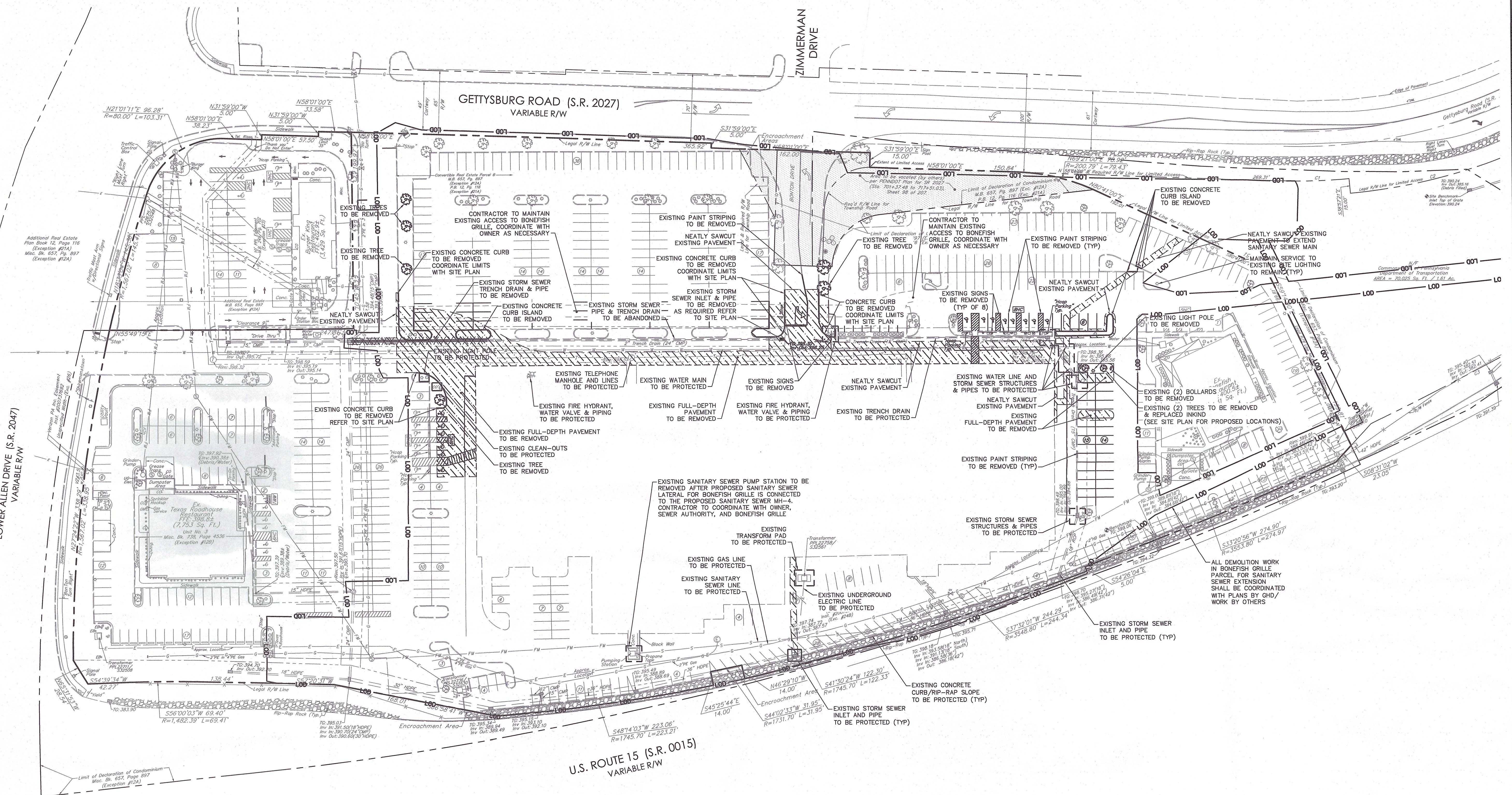
**PRELIMINARY/FINAL SUBDIVISION
& LAND DEVELOPMENT PLAN**

3525 GETTYSBURG ROAD

LOWER ALLEN COMMONS

LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PA

LOWER ALLEN DRIVE (S.R. 2047)
VARIABLE R/W



REVISIONS
No. 1 Date 04/06/2020
2 05/07/2020
3 06/02/2020
Desc. REVISED PER TOWNSHIP COMMENTS
REVISED PER TOWNSHIP COMMENTS
REVISED PER TOWNSHIP AUTHORITY COMMENTS

Designed A.J.D.
Drawn C.J.S.
Reviewed A.J.B.
Scale 1" = 50'
Project No. 1800416
Date 02/18/2020
CAD File: DM180041601

Title DEMOLITION PLAN
Sheet No.

GRAPHIC SCALE
50 25 0 50
SCALE IN FEET

DM-1
No. 4 of 17

**PRELIMINARY/FINAL SUBDIVISION
& LAND DEVELOPMENT PLAN**

3525 GETTYSBURG ROAD

LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PA

LOWER ALLEN COMMONS

3525 GETTYSBURG ROAD

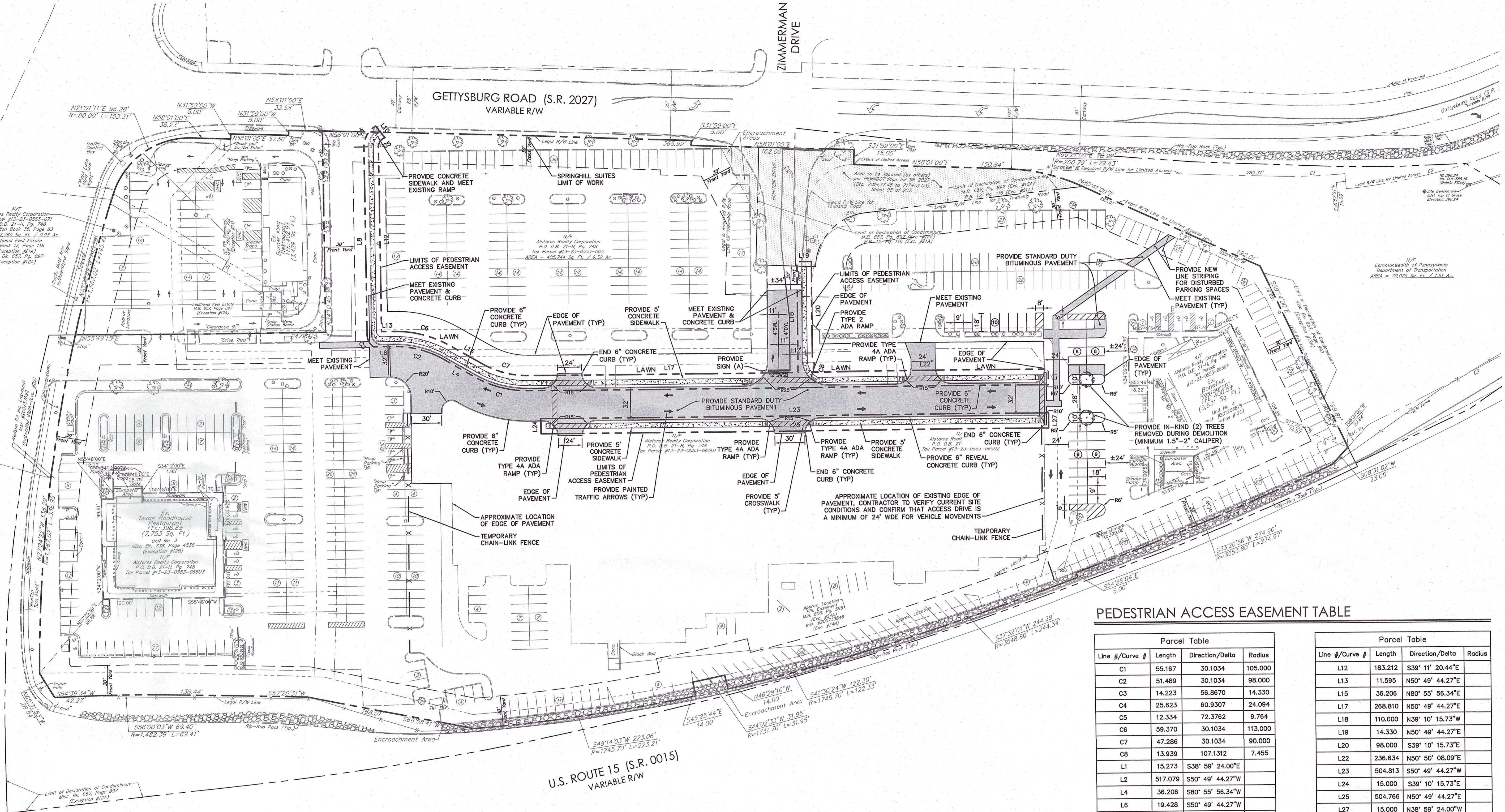
LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PA

LOWER ALLEN COMMONS

LOWER ALLEN DRIVE (S.R. 2047)
VARIABLE R/W



8/24/2020, SURGEON GENERAL'S ORDER 1804 & 1804A (DWG SP-1804 & 1804A DWG SP-1)



ZONING INFORMATION

LOCATION: LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY

ZONE: REGIONAL COMMERCIAL DISTRICT (C-4)

USE: FOOD SERVICES (NAICS NO. 72) (PERMITTED USE)

LEGEND					
PROPERTY LINE	EASEMENT LINE	BUILDING SETBACK LINE	CONCRETE CURB	STANDARD DUTY BITUMINOUS PAVEMENT	CONCRETE
PROPOSED FENCE	EDGE OF PAVEMENT	PROPOSED SIGN	PROPOSED TREE		

PENNSYLVANIA ACT 287 (1974) AS AMENDED BY PENNSYLVANIA ACT 199 (2004) REQUIRES NO LESS THAN THREE (3) WORKING DAYS AND NO MORE THAN 10 WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH. PA ONE-CALL SERIAL NO. 20183380628

* THERE IS NO MINIMUM LOT AREA. LOT AREA SHALL BE BASED UPON REQUIRED SETBACKS, IMPERVIOUS COVERAGE, OFF-STREET PARKING AND LOADING/UNLOADING, FLOODPLAINS/NETLANDS, STEEP SLOPE REQUIREMENTS, WOODLAND PRESERVATION AND OTHER APPLICABLE CRITERIA AS SET FORTH IN ZONING ORDINANCE.

PARKING INFORMATION

ITEM #	ITEM	REQUIREMENTS	PROPOSED	VARIANCE
1	MINIMUM LOT AREA	NONE REQUIRED*	12.80 ACRES	NO
2	MINIMUM LOT WIDTH	50 FEET AT DEDICATED RIGHT-OF-WAY LINE	>50 FEET	NO
3	MINIMUM FRONT YARD DEPTH	30 FEET	>30 FEET	NO
4	MINIMUM REAR YARD DEPTH	35 FEET	N/A	NO
5	MINIMUM FRONT YARD LANDSCAPING	5 PERCENT	>5 PERCENT	NO
6	MAXIMUM BUILDING HEIGHT	75 FEET	<75 FEET	NO
7	MAXIMUM IMPERVIOUS COVERAGE	70 PERCENT	EXISTING 85.89% PROPOSED 83.34%	NO

EXISTING PARKING INFORMATION

ITEM #	ITEM	REQUIREMENTS	EXISTING
1	PARKING REQUIREMENTS FOR TEXAS ROADHOUSE	1 SPACE PER 2 SEATS 239 SEATS / 2 SEATS = 120 SPACES	143 SPACES
2	PARKING REQUIREMENTS FOR BONFISH GRILLE	1 SPACE PER 2 SEATS 230 SEATS / 2 SEATS = 115 SPACES	118 SPACES
3	PARKING REQUIREMENTS FOR LOWER ALLEN COMMONS	N/A	751 SPACES

SIGN LEGEND

NO.	DOT NO./ SIGN SIZE	LEGEND	QTY.
A	R1-1 30x30"	STOP	1

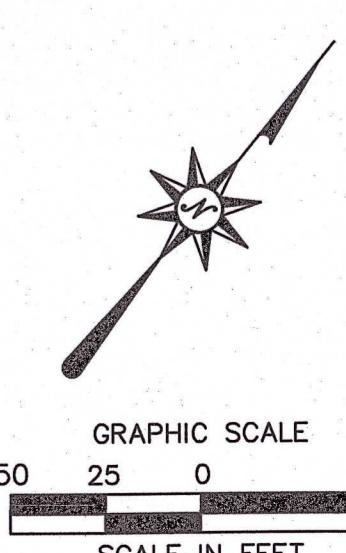
REVISIONS
Date: 04/15/2020
Reviewed: 05/01/2020
Comments: REVISED PER TOWNSHIP COMMENTS
REVIEWED PER TOWNSHIP AUTHORITY COMMENTS

Designed: A.J.D.
Drawn: C.J.S.
Reviewed: A.J.B.
Scale: 1" = 50'
Project No.: 1800416
Date: 02/18/2020
CAD File: SP180041601

Title: SITE PLAN

Sheet No.:

SP-1
No. 5 of 17



FOR PERMITTING PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION

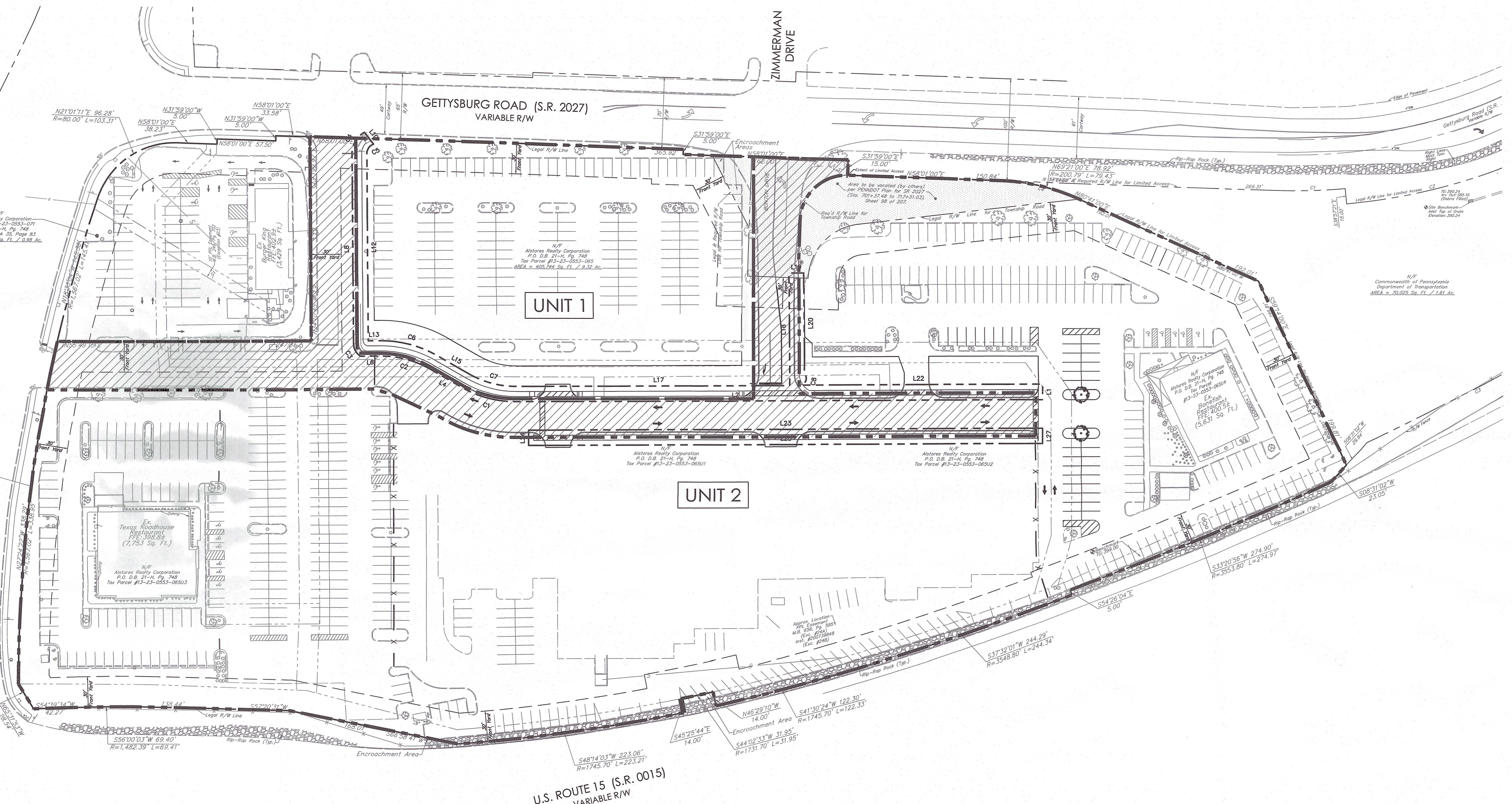
**PRELIMINARY/FINAL SUBDIVISION
& LAND DEVELOPMENT PLAN**

LOWER ALLEN COMMONS

3525 GETTYSBURG ROAD

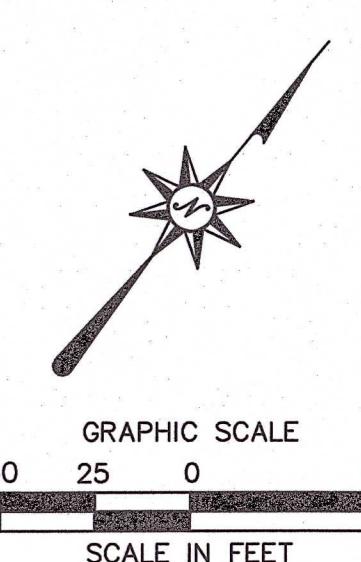
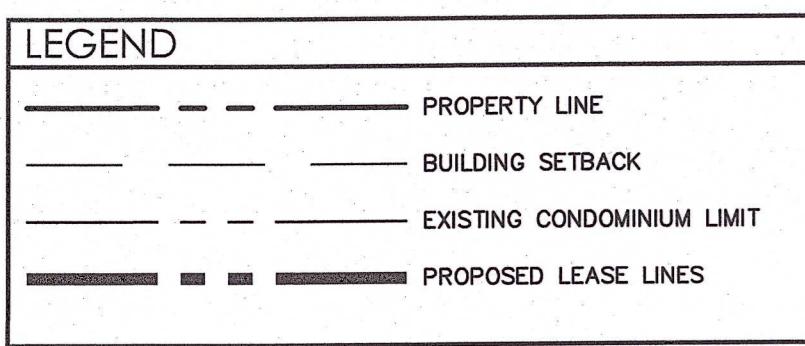
LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PA

LOWER ALLEN DRIVE (S.R. 2047)
VARIABLE R/W



LEASE AREAS:

UNIT #	UNIT AREA	PERCENT OF TOTAL AREA
1	2.12 ACRES	16.6 PERCENT
2	10.67 ACRES	83.4 PERCENT
TOTAL	12.79 ACRES	100 PERCENT



REVISIONS
No. Date Desc.
1 04/06/2020 REVISED PER TOWNSHIP AND COUNTY COMMENTS
2 05/07/2020 REVISED PER TOWNSHIP AUTHORITY COMMENTS
3 06/02/2020 REVISED PER TOWNSHIP COMMENTS

Designed A.J.D.
Drawn C.J.S.
Reviewed A.J.B.
Scale 1" = 50'
Project No. 1800416
Date 02/18/2020
CAD File: SP180041601-LEASE_LINES

Title CONDOMINIUM PLAN
Sheet No. CP-1

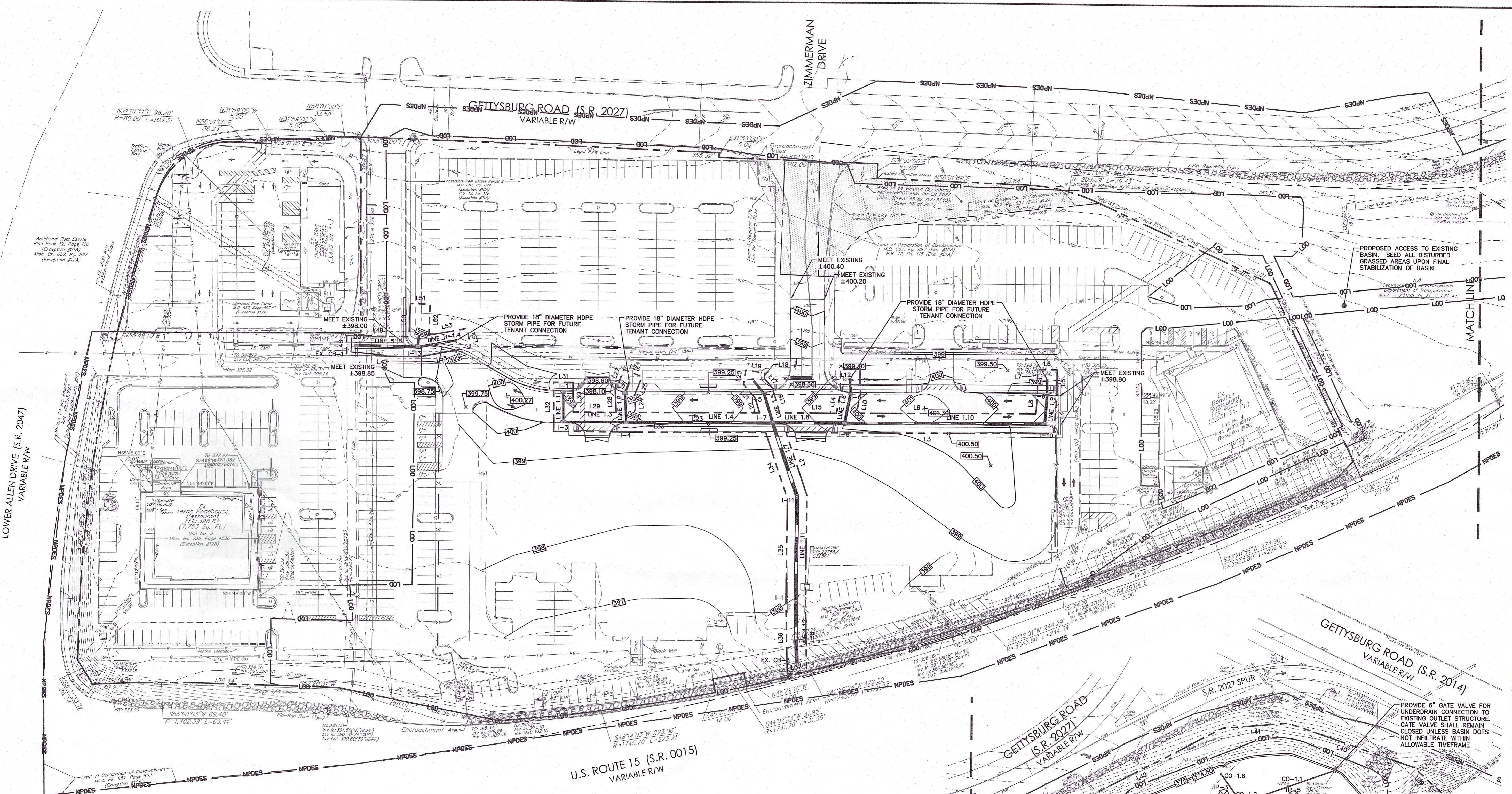
No. 6 of 17

PRELIMINARY/FINAL SUBDIVISION & LAND DEVELOPMENT PLAN

3525 GETTYSBURG ROAD

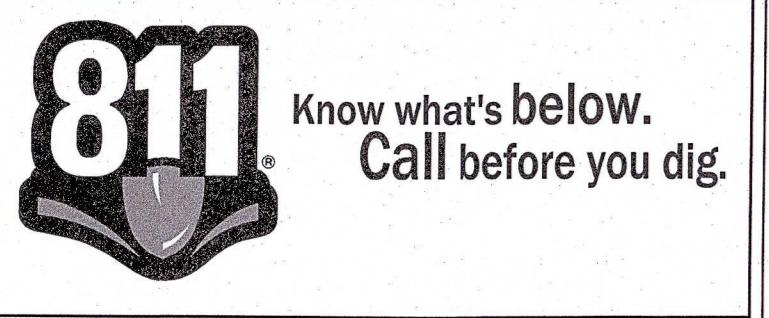
LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PA

LOWER ALLEN DRIVE (S.R. 2047)



GRADING & DRAINAGE NOTES

1. THE OWNER OFFERS A BLANKET EASEMENT OVER THE ENTIRE PROPERTY FOR THE PURPOSE OF STORMWATER MANAGEMENT TO LOWER ALLEN TOWNSHIP. LOWER ALLEN TOWNSHIP HAS THE RIGHT, BUT NOT THE DUTY, TO ENTER ONTO THE PROPERTY TO INSPECT THE STORMWATER MANAGEMENT FACILITIES AND REQUIRE ANY NECESSARY MAINTENANCE AT THE OWNER'S EXPENSE.

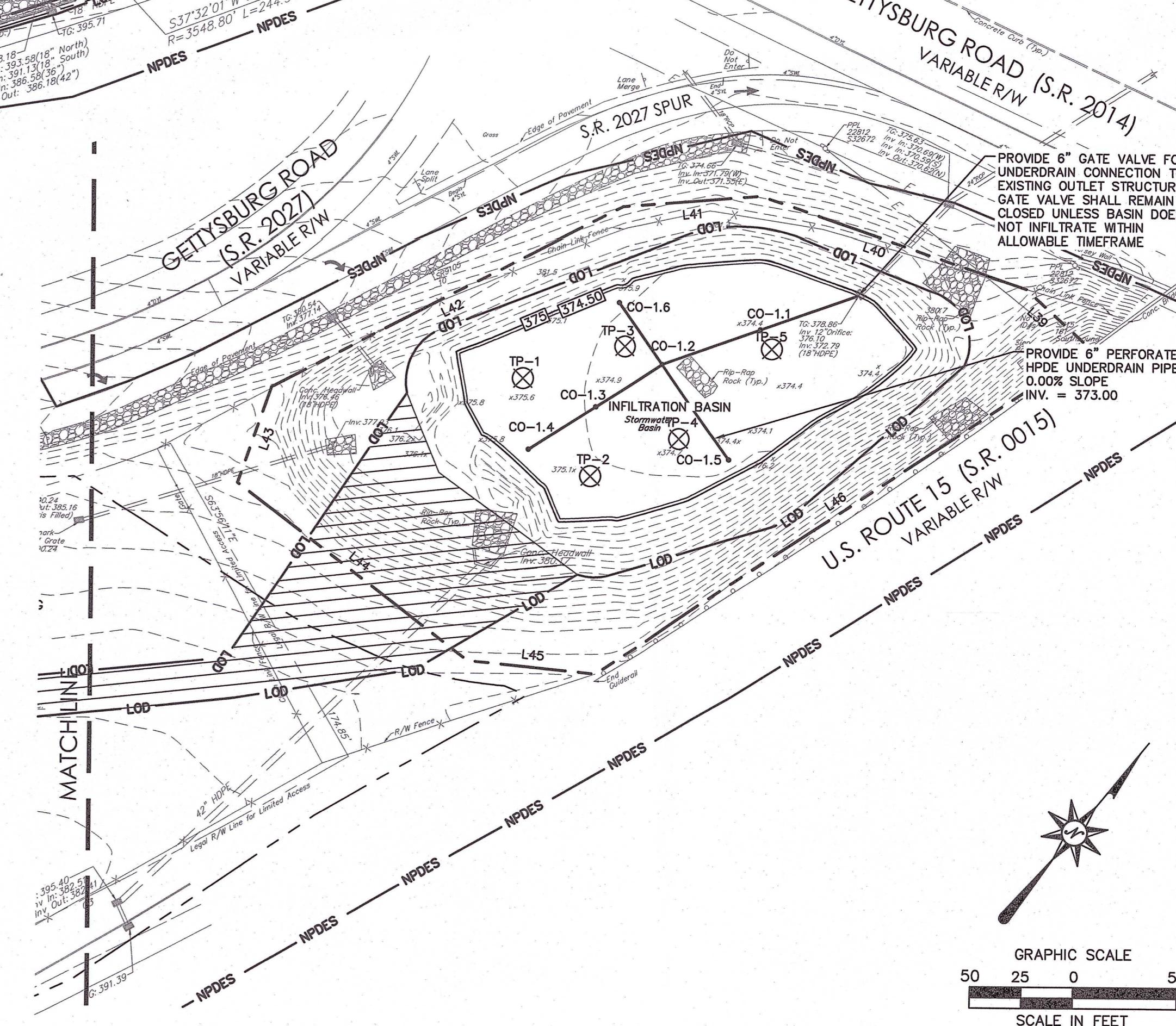


STORMWATER MANAGEMENT EASEMENT TABLE

Line Table		
Line #	Length	Direction
L1	109.541	N38° 38' 25.93"W
L2	67.502	N57° 48' 13.82"W
L3	273.968	N50° 49' 40.95"E
L4	39.729	N34° 38' 39.32"W
L5	25.393	N39° 10' 15.73"W
L6	20.000	S50° 49' 44.27"W
L7	24.805	S39° 10' 15.73"E
L8	20.459	S34° 38' 39.32"E
L9	183.533	S50° 49' 40.95"W
L10	19.397	N28° 10' 21.83"W
L11	25.963	N39° 10' 15.73"W
L12	20.000	S50° 49' 44.27"W
L13	24.037	S39° 10' 15.73"E
L14	21.358	S28° 10' 21.83"E
L15	58.084	S50° 49' 40.95"W
L16	26.035	S56° 00' 16.06"W
L17	13.499	N79° 45' 03.08"E
L18	5.390	N30° 15' 02.10"W
L19	20.000	S59° 44' 57.90"W

Line Table		
Line #	Length	Direction
L20	14.610	S30° 15' 02.10"E
L21	18.514	S79° 45' 03.08"E
L22	15.788	S56° 00' 16.06"E
L23	126.018	S50° 39' 40.95"W
L24	18.272	N41° 01' 51.98"W
L25	19.400	N17° 38' 28.73"W
L26	20.000	S72° 21' 31.27"W
L27	23.540	S17° 38' 28.73"E
L28	21.763	S41° 01' 51.98"E
L29	43.916	S50° 49' 40.95"W
L30	30.013	N39° 12' 59.99"W
L31	20.000	S50° 47' 00.01"W
L32	49.998	S39° 12' 59.99"E
L33	216.221	N50° 49' 40.95"E
L34	70.869	S57° 48' 13.82"E
L35	106.468	S38° 38' 25.93"E
L36	73.596	S40° 28' 28.11"E
L37	20.052	N45° 30' 42.14"E
L38	71.855	N40° 22' 28.11"W

Line Table		
Line #	Length	Direction
L39	42.375	N86° 32' 58.25"W
L40	135.551	S69° 51' 12.09"W
L41	67.334	S46° 18' 21.14"W
L42	190.804	S23° 33' 13.38"W
L43	49.184	S19° 44' 38.80"E
L44	141.332	N88° 29' 19.11"E
L45	61.804	N56° 46' 21.54"E
L46	287.095	N17° 11' 55.36"E
L47	73.702	S52° 08' 27.71"W
L48	20.000	N39° 29' 14.50"W
L49	63.678	N52° 08' 27.71"E
L50	34.038	N36° 46' 21.54"E
L51	20.019	N52° 12' 32.25"E
L52	31.692	S36° 52' 44.70"E
L53	39.835	N40° 45' 46.62"E
L54	20.000	S49° 14' 13.38"E
L55	53.581	S40° 45' 46.62"W



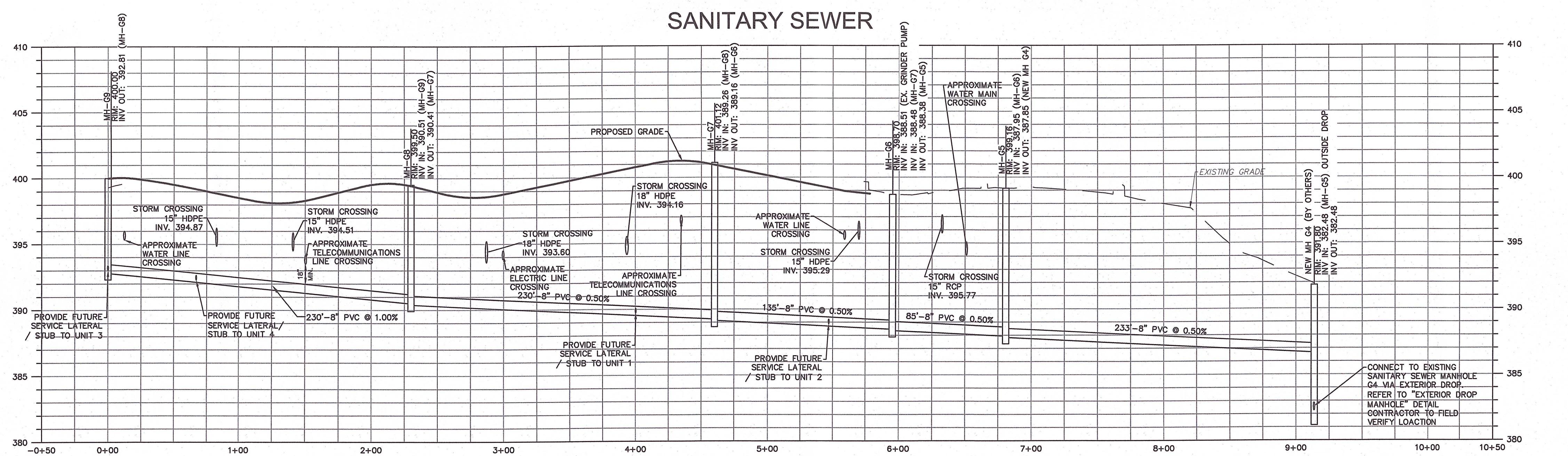
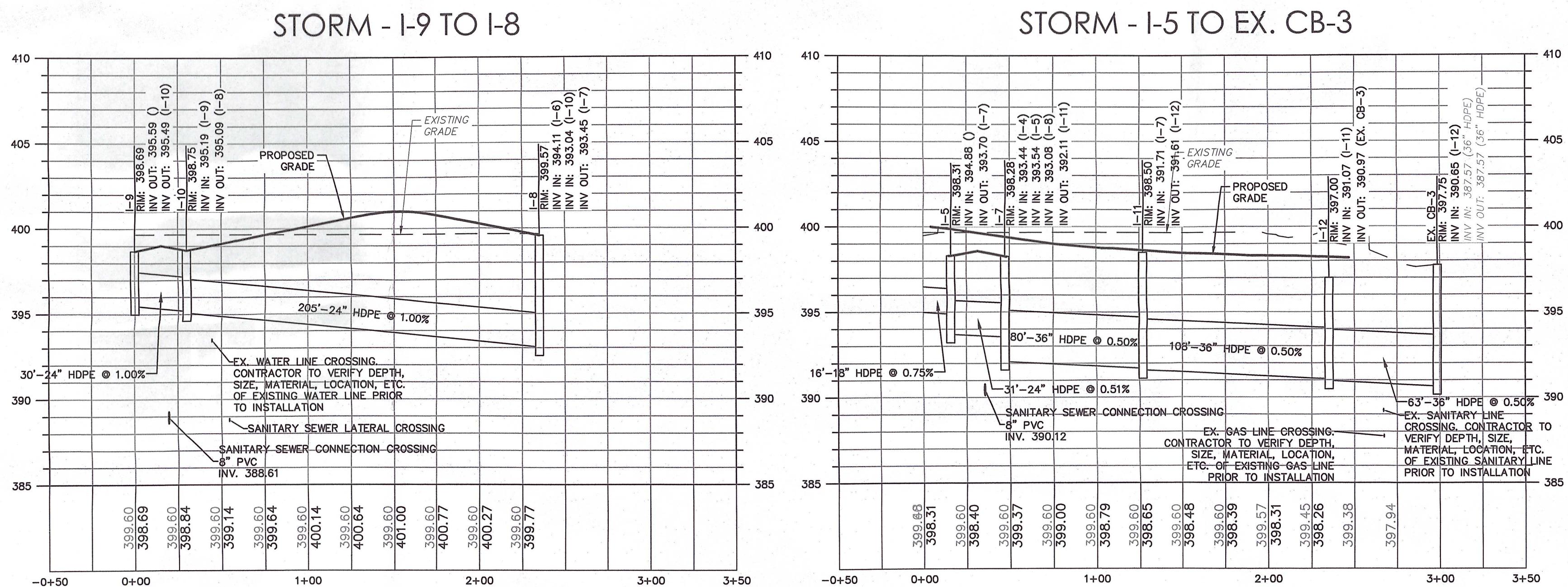
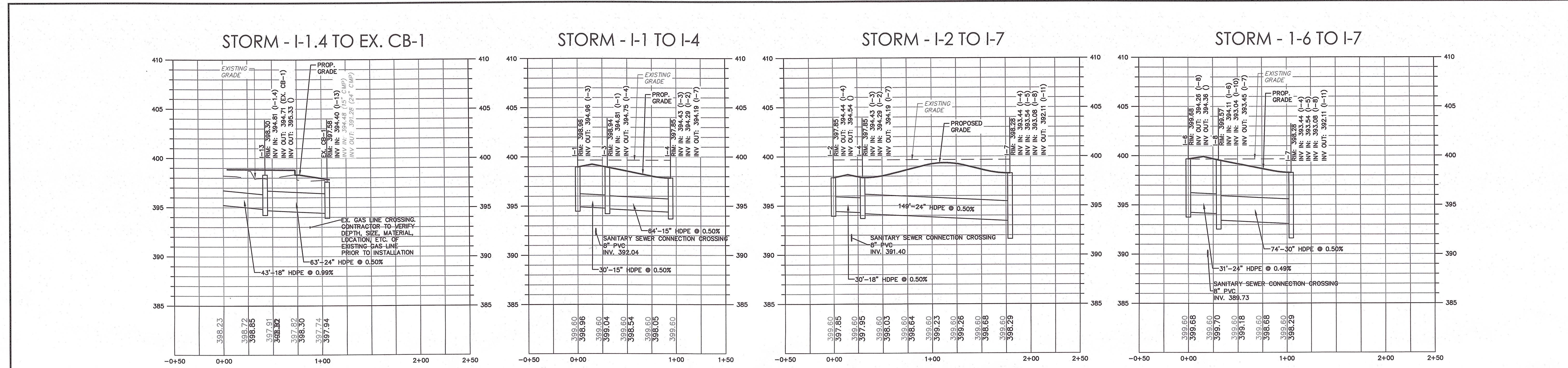
REVISIONS
Date
04/08/2020
REVISED PER TOWNSHIP AND COUNTY COMMENTS
05/07/2020
REVISED PER TOWNSHIP AUTHORITY COMMENTS
05/07/2020

Designed
A.J.D.
Drawn
C.J.S.
Reviewed
A.J.B.
Scale
1" = 50'
Project No.
1800416
Date
02/18/2020
CAD File:
GD180041601

Title
GRADING &
DRAINAGE PLAN

Sheet No.
No. 2-3
8/24/2020, CURECONE, C. 03818041614.DWG.CD

FOR PERMITTING PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION



**PRELIMINARY/FINAL SUBDIVISION
& LAND DEVELOPMENT PLAN**

LOWER ALLEN COMMONS

3525 GETTYSBURG ROAD

LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PA

No. Date Desc. Revised per Township and County Comments
1 04/06/2020 Revised per Township and County Comments
2 05/07/2020 Revised per Township Authority Comments
3 06/02/2020 Revised per Township Authority Comments

Designed A.J.D.
Drawn C.J.S.
Reviewed A.J.B.
Scale AS NOTED
Project No. 1800416
Date 02/18/2020
CAD File: PR180041601

Title PROFILES

Sheet No.

VERTICAL GRAPHIC SCALE
5 2.5 0 5
SCALE IN FEET
HORIZONTAL GRAPHIC SCALE
50 25 0 50
SCALE IN FEET

PR-1
No. 9 of 17

FOR PERMITTING PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION

**PRELIMINARY/FINAL SUBDIVISION
& LAND DEVELOPMENT PLAN**

3525 GETTYSBURG ROAD
LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PA

REVISIONS
No. 1
Date 04/06/2020
Desc. REVISED PER TOWNSHIP AND COUNTY COMMENTS
2
Date 05/07/2020
Desc. REVISED PER TOWNSHIP AUTHORITY COMMENTS
3
Date 06/02/2020
Desc. REVISED PER TOWNSHIP AUTHORITY COMMENTS

Designed
Drawn
Reviewed
A.J.D.
C.J.S.
A.J.B.
Scale AS NOTED
Project No. 1800416
Date 02/18/2020
CAD File: DN180041601

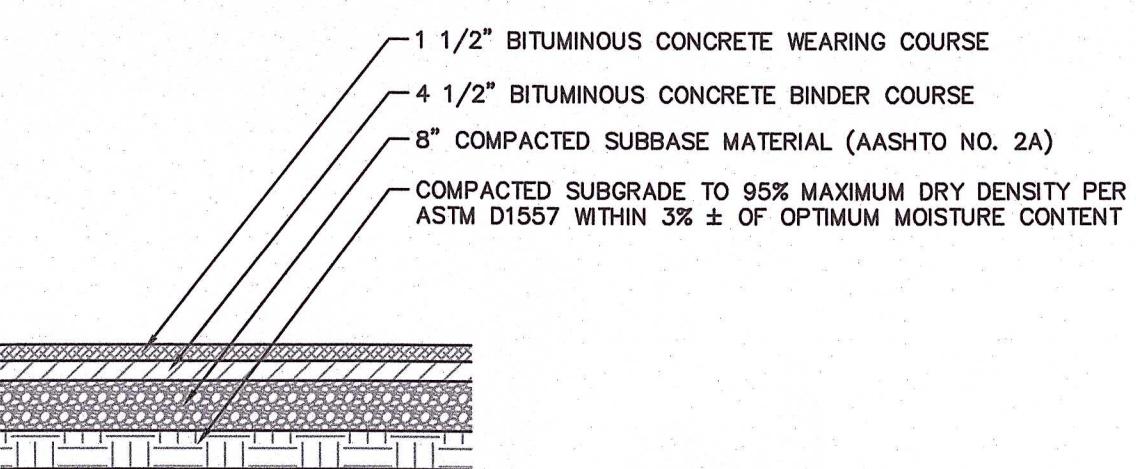
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DETAIL SHEET

Sheet No.

DN-1

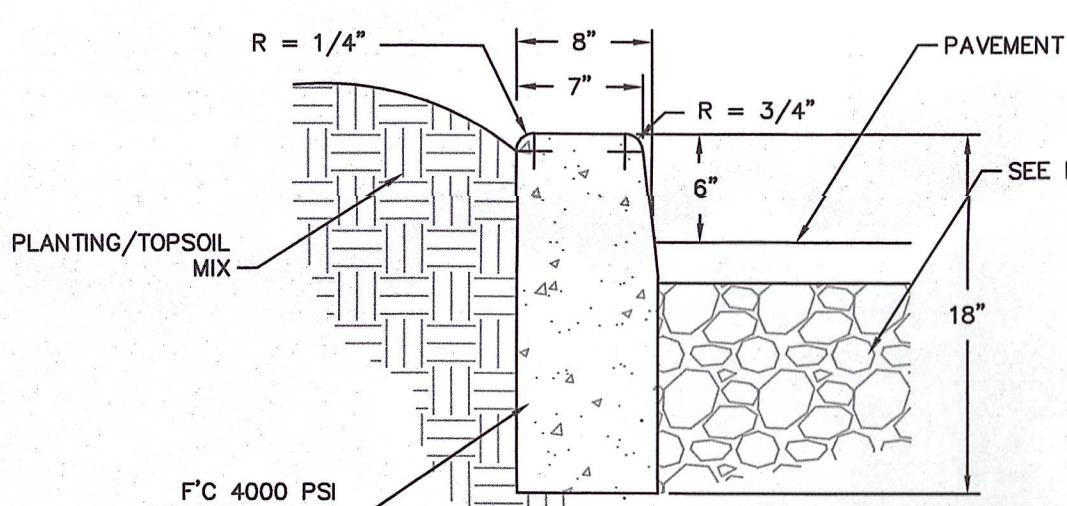
No. 10 of 17



NOTES:
1. ALL PAVING MATERIALS AND INSTALLATION PROCEDURES
SHALL CONFORM TO PENNDOT STANDARDS, PUB. 408.

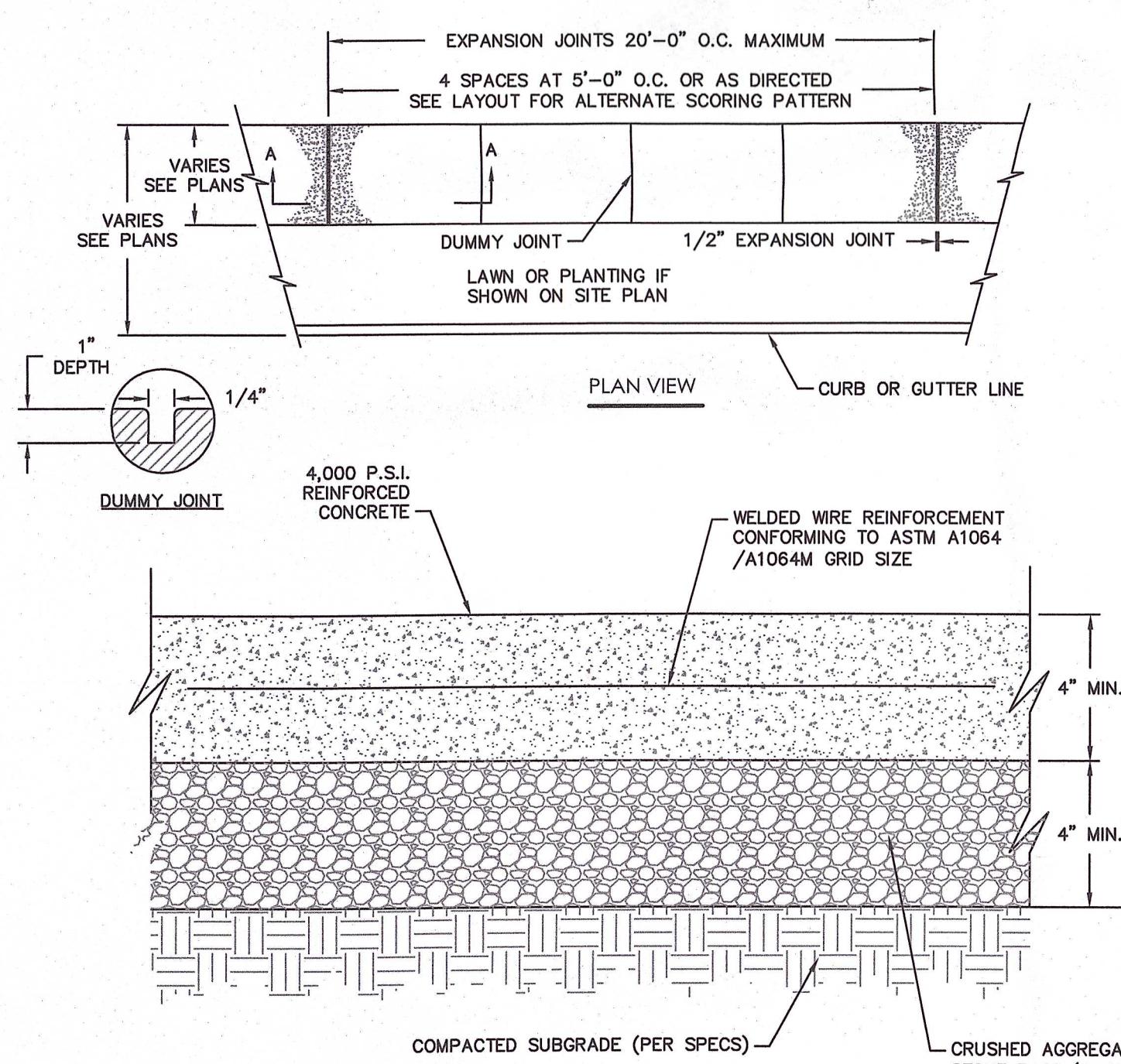
**STANDARD DUTY BITUMINOUS
PAVING DETAIL ON-SITE**

N.T.S.



6" REVEAL CONCRETE CURB

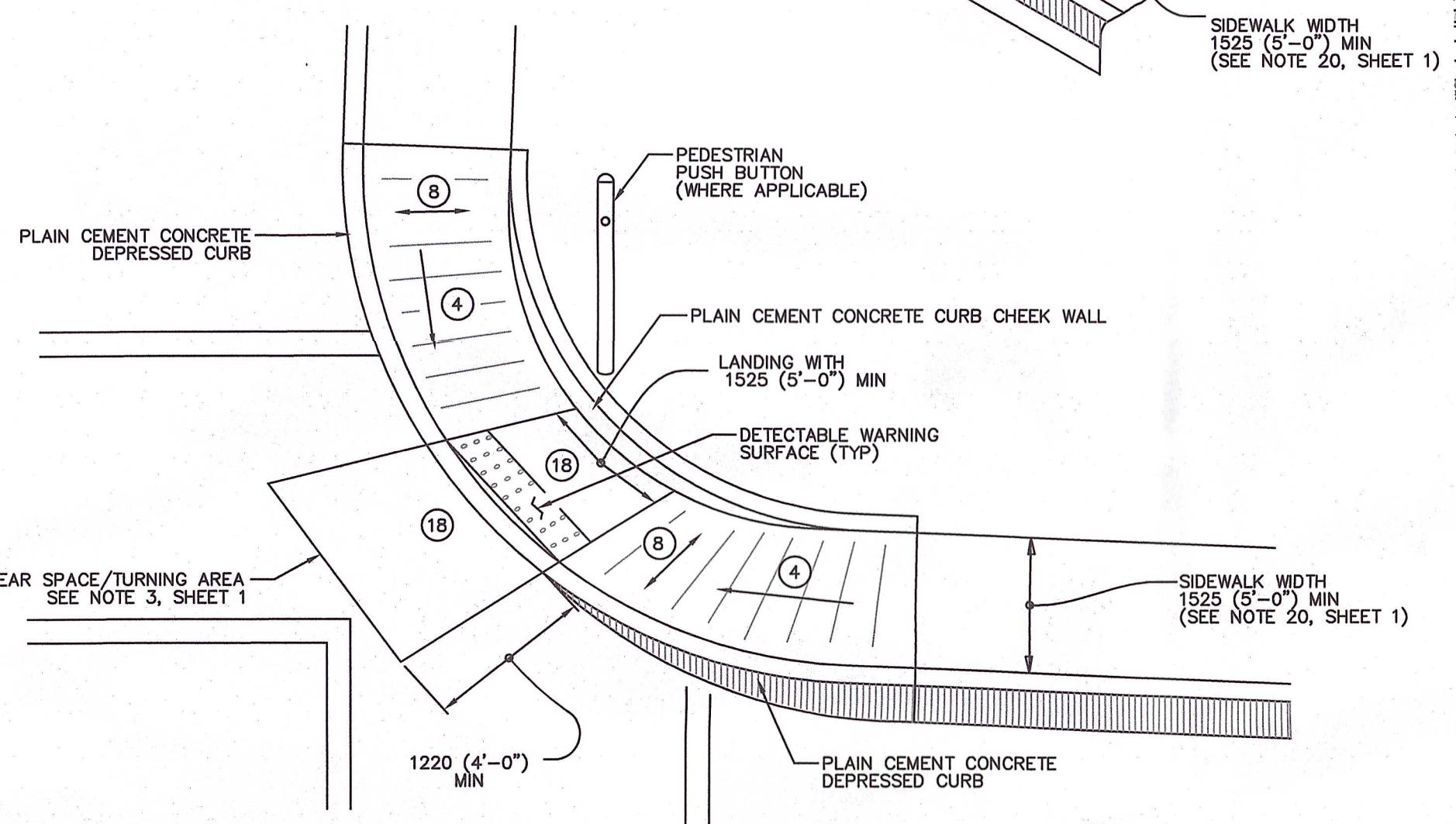
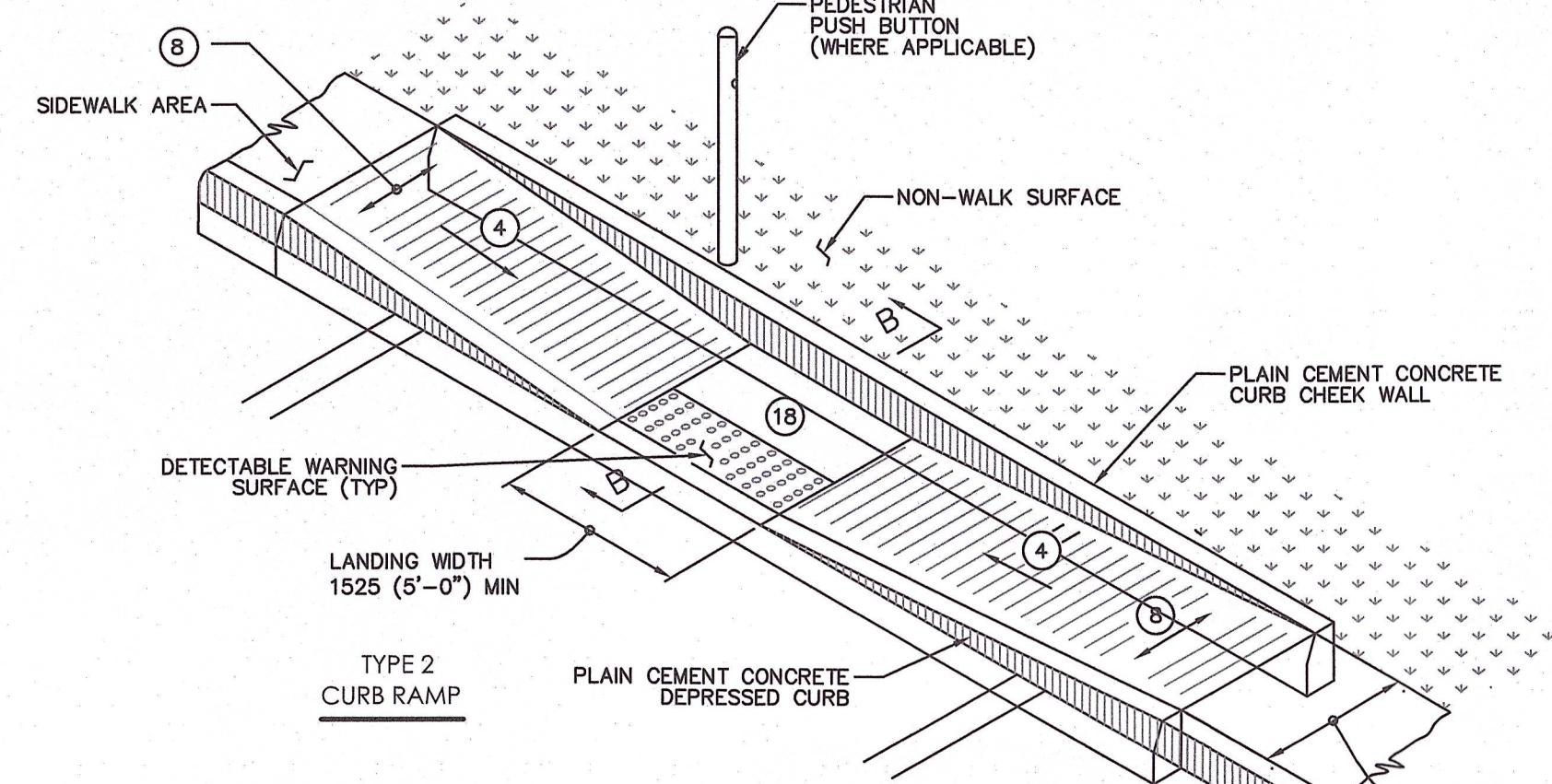
N.T.S.



NOTES:
1. 1/4" WIDE x 1" DEEP DUMMY JOINTS SCORED AT 5'-0" INTERVALS.
2. CONSTRUCTION EXPANSION JOINTS SPACED EVERY 20' AND BETWEEN CURB AND SIDEWALK WHERE ADJACENT
3. SIDEWALK TO BE BROOM FINISHED
4. COLOR TO BE SELECTED BY OWNER

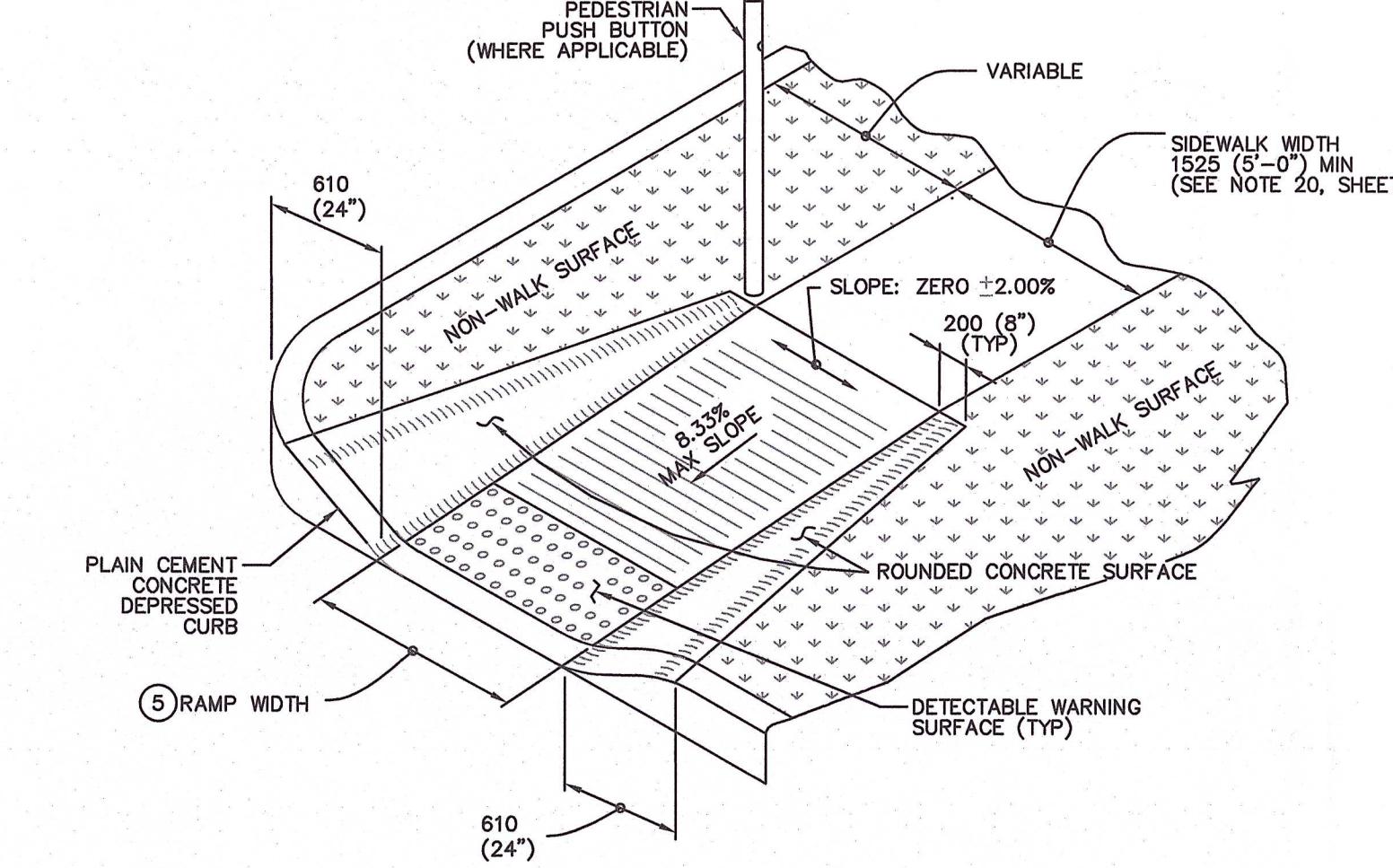
SIDEWALK DETAIL

N.T.S.



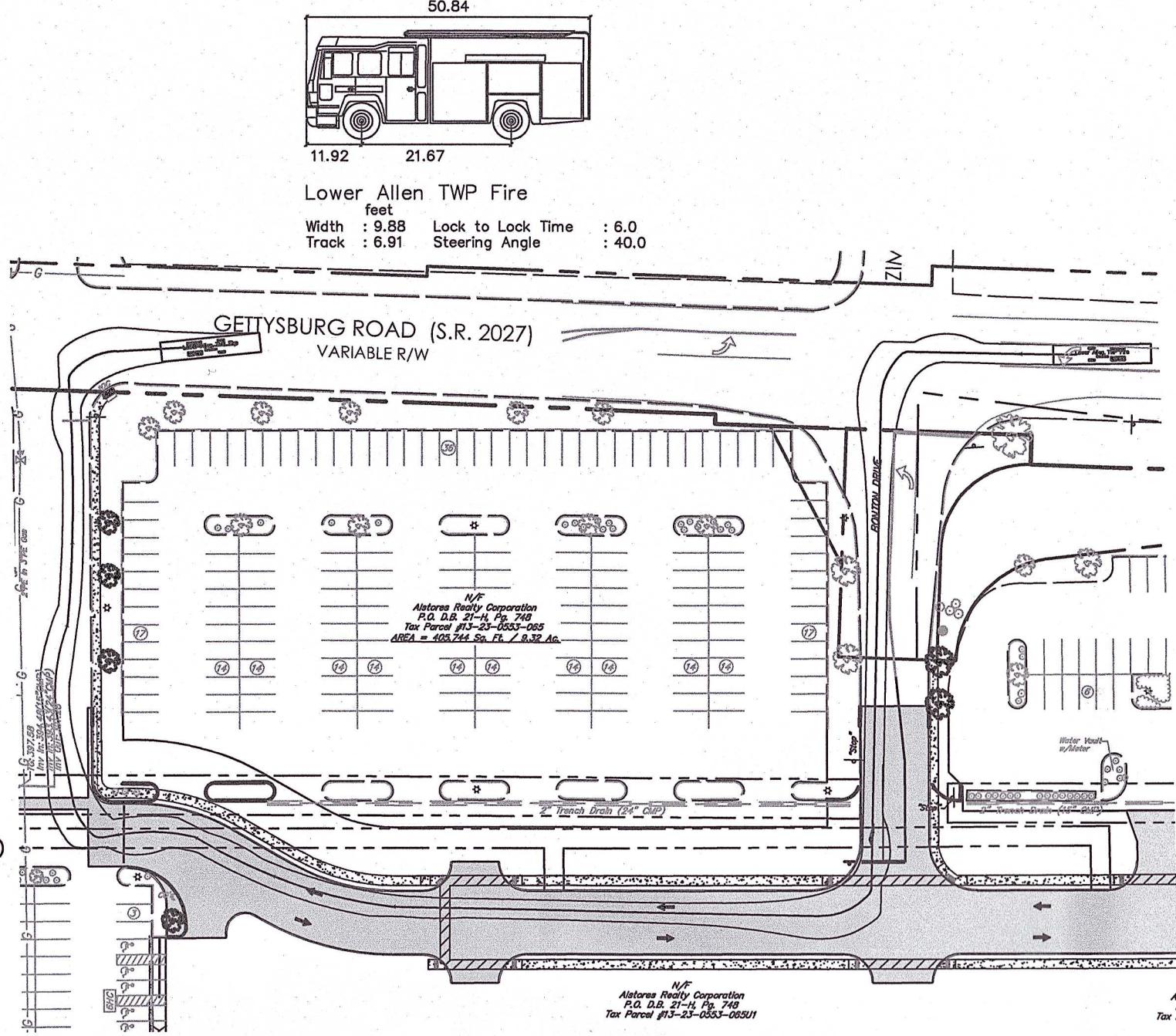
**TYPE 2 CURB RAMP
SECTION B-B**

N.T.S.



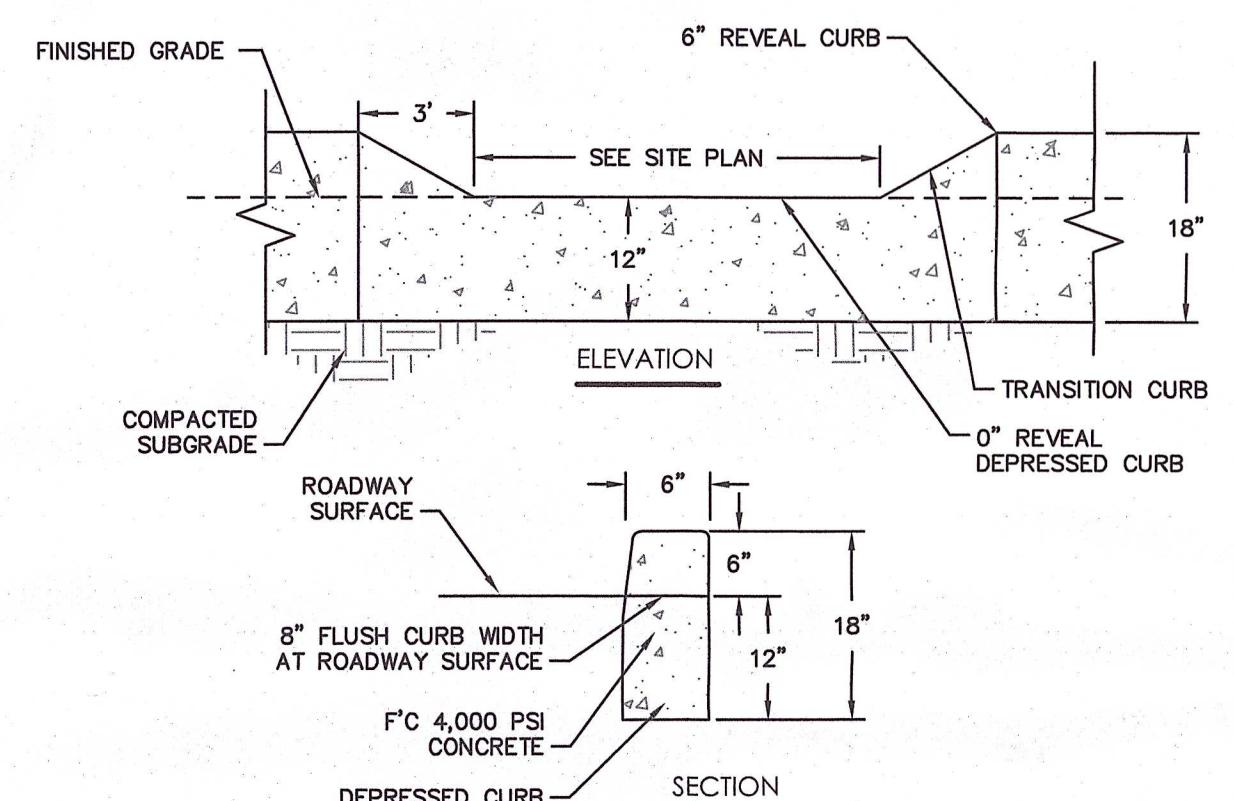
**ALTERNATE TYPE 4A
CURB RAMP (PARALLEL)**

N.T.S.



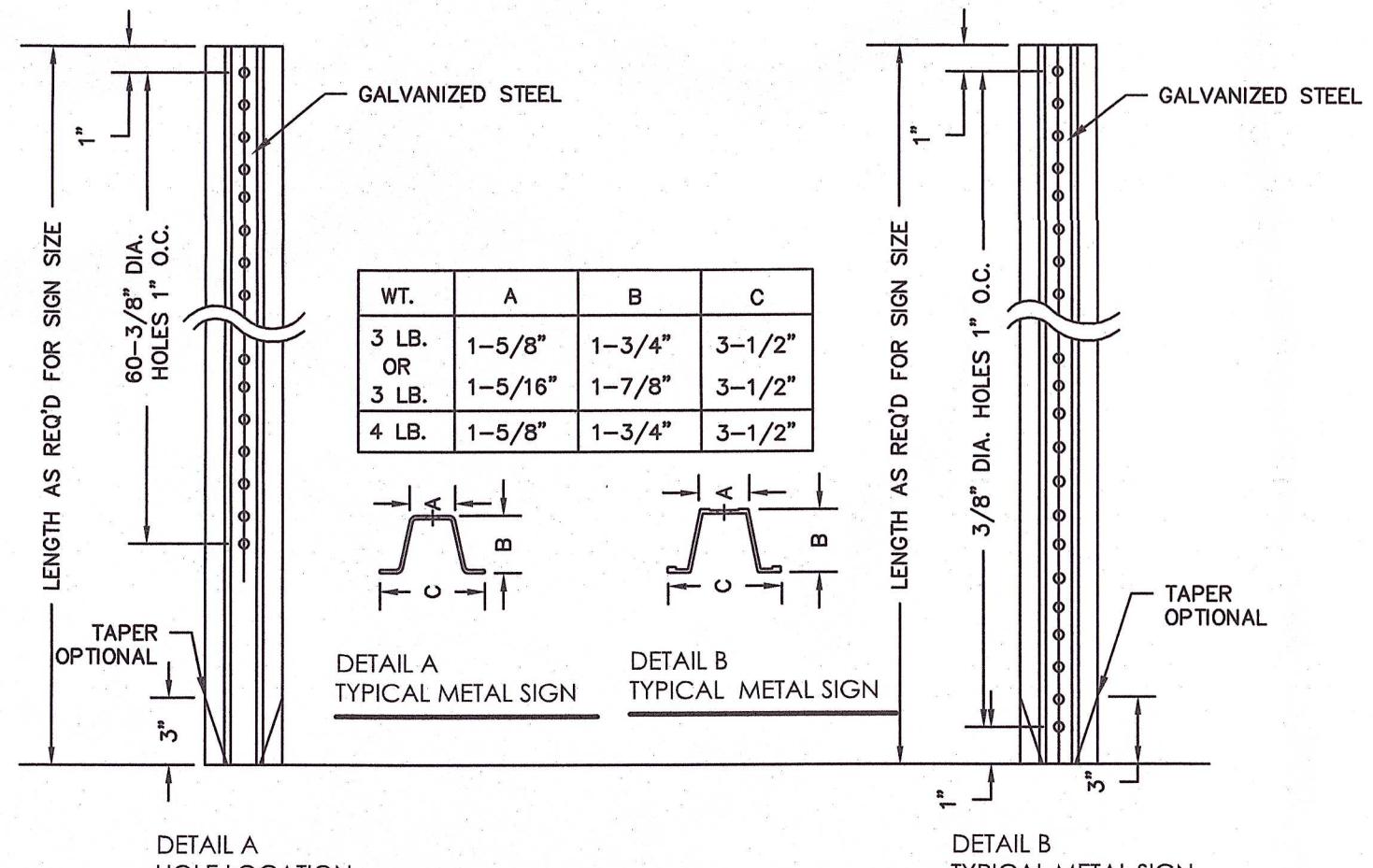
TRUCK TURNING TEMPLATE

N.T.S.



**6" REVEAL DEPRESSED/
CONCRETE CURB**

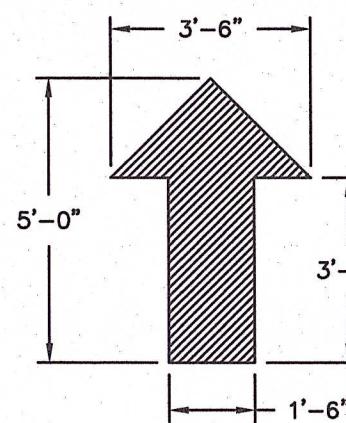
N.T.S.



NOTES:
1. STEEL FOR POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499-81 GRADE 60 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1-76 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT OF 30 LBS OR GREATER PER LINEAR FOOT.
2. AFTER FABRICATION ALL STEEL POSTS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A-123.
3. SIGN MOUNTING HEIGHT TO BE PER MUTCD REQUIREMENTS.
4. ALL SIGN POSTS SHALL HAVE "BREAK AWAY" FEATURES THAT MEET AASHTO REQUIREMENTS CONTAINED IN "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS". THE "BREAK AWAY" FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGN SHOWN ON THE PLANS AT 60 MPH WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

TYPICAL METAL SIGN POST

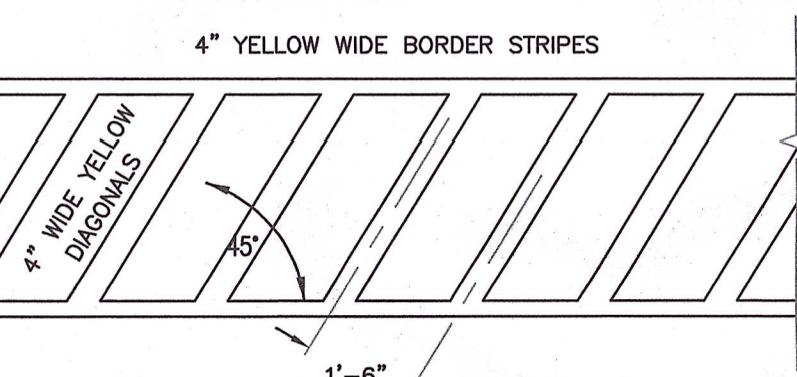
N.T.S.



NOTES:
1. WHITE ARROWS TO BE CENTERED IN TRAVEL LANE

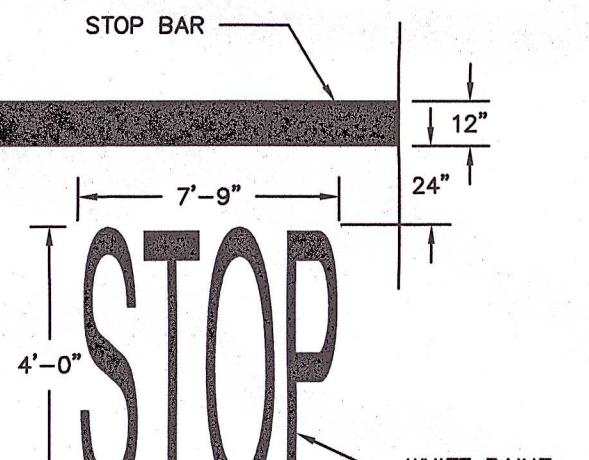
PAINTED TRAFFIC ARROW DETAIL

N.T.S.



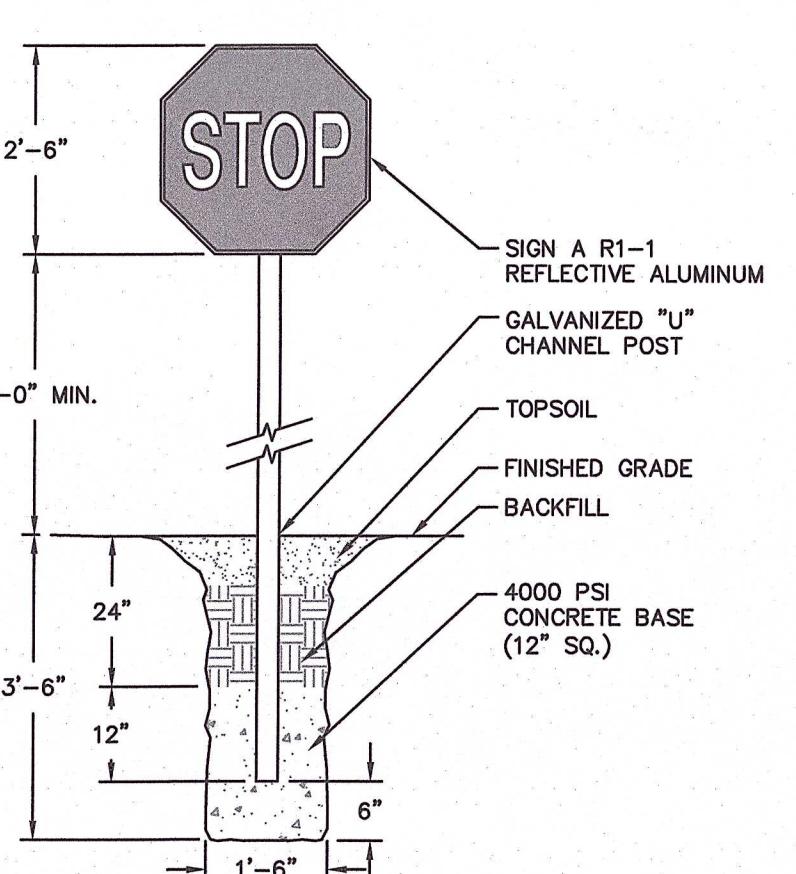
PAINT STRIPING DETAIL

N.T.S.



STOP BAR DETAIL

N.T.S.



NOTES:
1. CONSTRUCT SIGN IN ACCORDANCE WITH DOT SPECIFICATIONS.

STOP SIGN DETAIL

N.T.S.

**PRELIMINARY/FINAL SUBDIVISION
& LAND DEVELOPMENT PLAN
LOWER ALLEN COMMONS**

3525 GETTYSBURG ROAD
LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PA

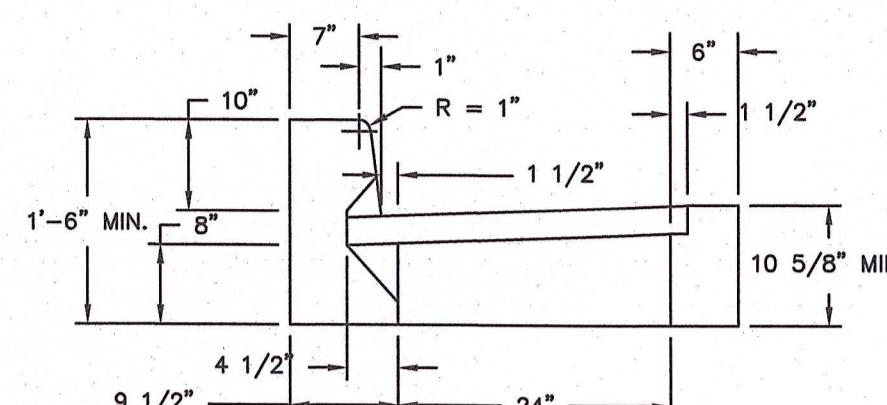
REVISIONS
No. 1 04/06/2020
2 05/07/2020
3 06/02/2020

Designed A.J.D.
Drawn C.J.S.
Reviewed A.J.B.
Scale AS NOTED
Project No. 1800416
Date 02/18/2020
CAD File: DN18004161

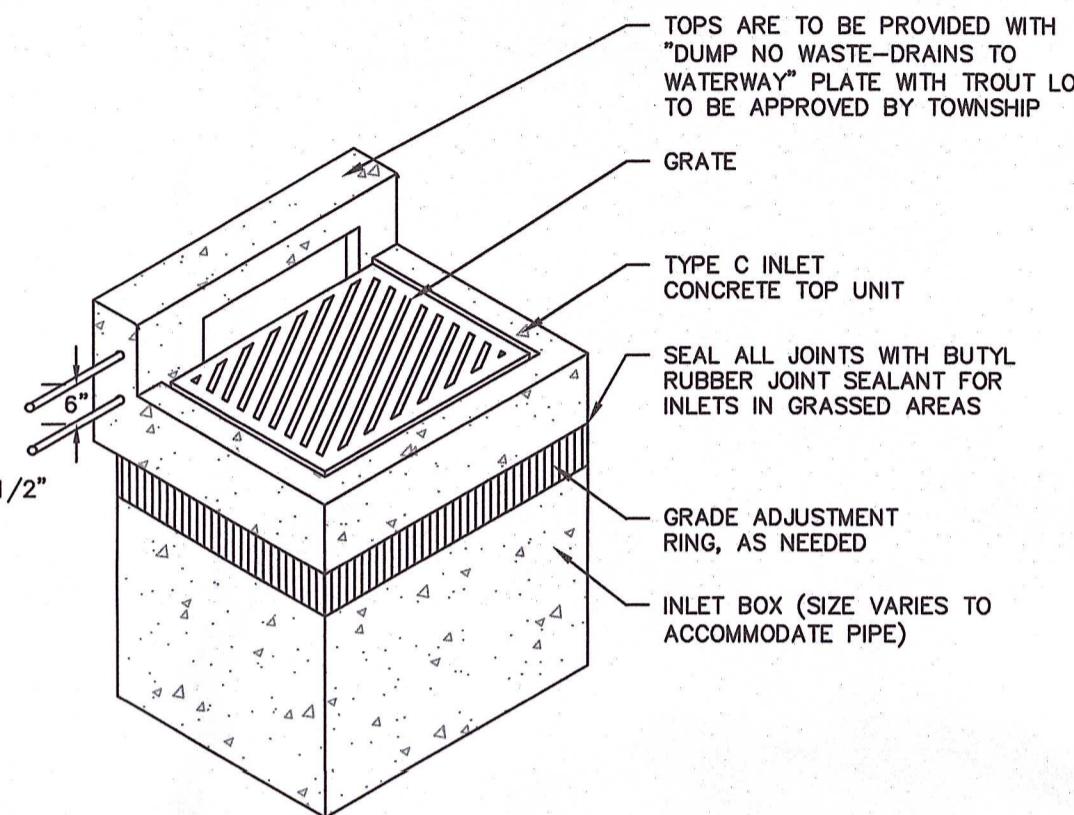
Title
DETAIL SHEET

Sheet No.

DN-3
No. 12 of 17



SECTION A-A

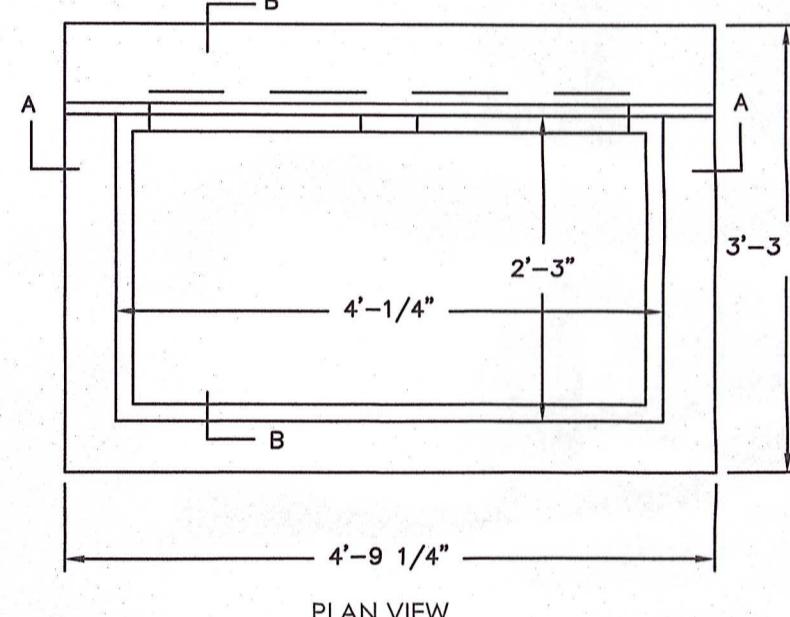


NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SECTION 605 AND STANDARDS FOR ROADWAY CONSTRUCTION, RC-45 AND RC-46. CONTRACTOR SHALL VERIFY INLET BOX SIZING BASED ON PIPE SIZES AND ALIGNMENT PRIOR TO ORDERING PRECAST STRUCTURES.
2. ALL DRAINAGE STRUCTURES SHALL HAVE Poured-in-Place CONCRETE CHANNEL BOTTOMS.
3. ALL PENNDOT INLETS ARE TO BE PROVIDED WITH EITHER A PAINTED STENCILED LOGO ON THE ROADWAY OR ANOTHER ACCEPTABLE MARKING APPROVED BY THE GOVERNING AGENCY...

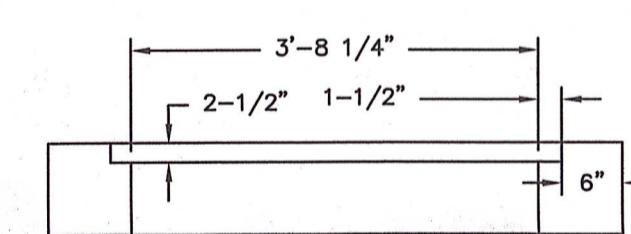
NOTES:

1. INLET TO BE IN CONFORMANCE WITH PA DOT ROADWAY CONSTRUCTION STANDARDS (RC-34) AND CERTIFIED FOR H2O LOADING.
2. PROVIDE BIKE SAFE GRATE.

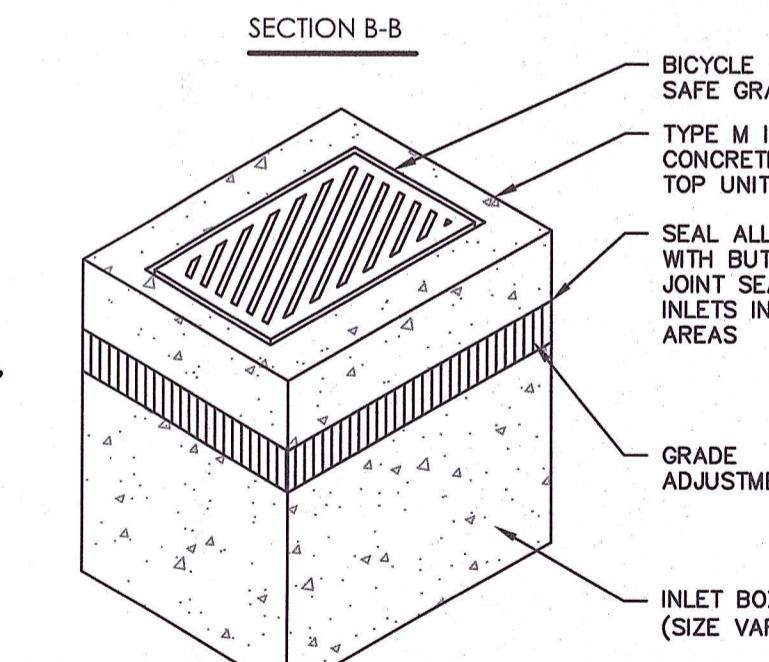


TYPE "C" INLET

N.T.S.



SECTION A-A



NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SECTION 605 AND STANDARDS FOR ROADWAY CONSTRUCTION, RC-45 AND RC-46. CONTRACTOR SHALL VERIFY INLET BOX SIZING BASED ON PIPE SIZES AND ALIGNMENT PRIOR TO ORDERING PRECAST STRUCTURES.
2. ALL DRAINAGE STRUCTURES SHALL HAVE Poured-in-Place CONCRETE CHANNEL BOTTOMS.
3. ALL PENNDOT INLETS ARE TO BE PROVIDED WITH EITHER A PAINTED STENCILED LOGO ON THE ROADWAY OR ANOTHER ACCEPTABLE MARKING APPROVED BY THE GOVERNING AGENCY.

TYPE "M" INLET

N.T.S.

TOPS ARE TO BE PROVIDED WITH "DUMP NO WASTE-DRAINS TO WATERWAY" PLATE WITH TROUT LOGO TO BE APPROVED BY TOWNSHIP

TO

WATERWAY

PLATE

WITH

TROUT

LOGO

TO

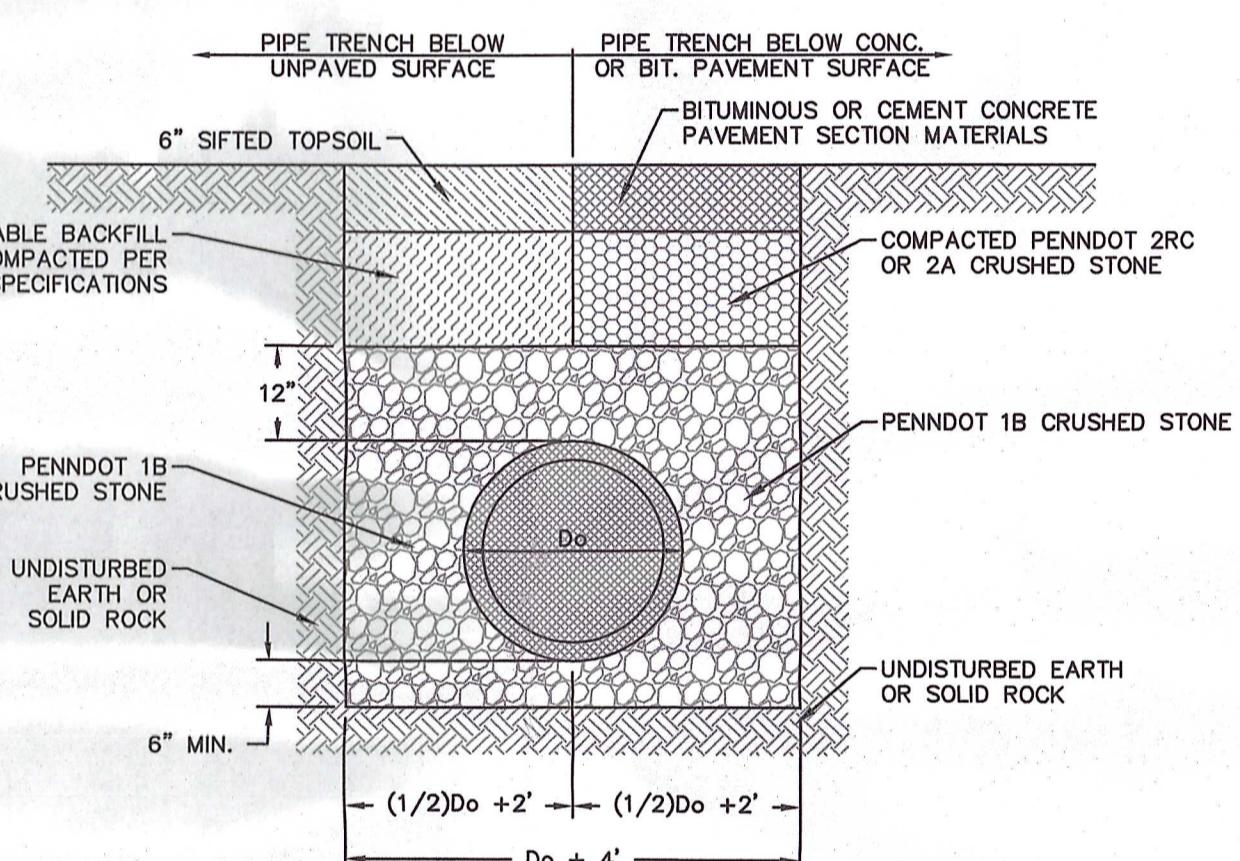
BE

APPROVED

BY

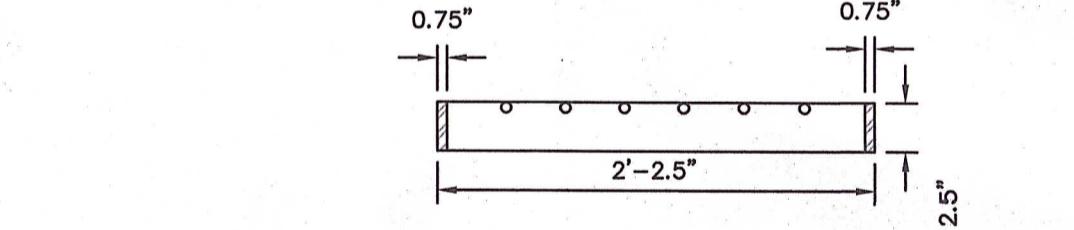
TOWNSHIP

SECTION B-B

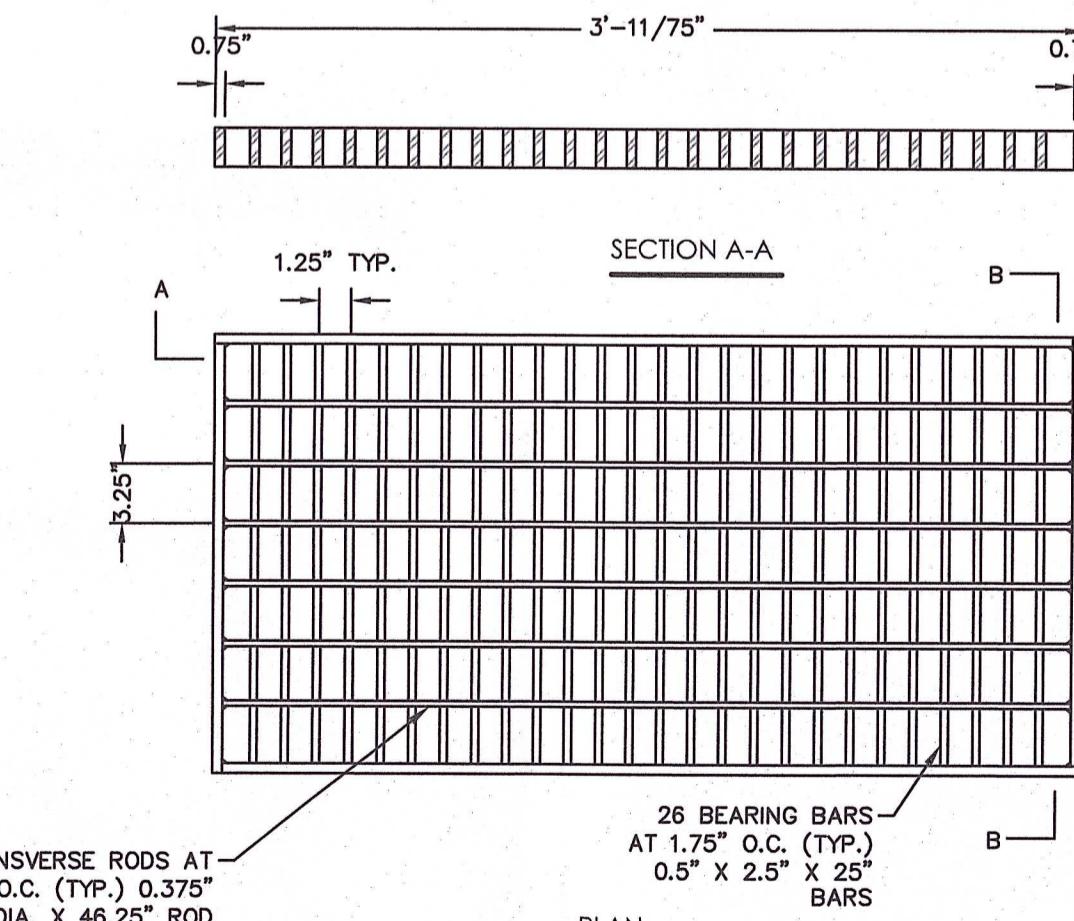


STORM PIPE TRENCH SECTION

N.T.S.

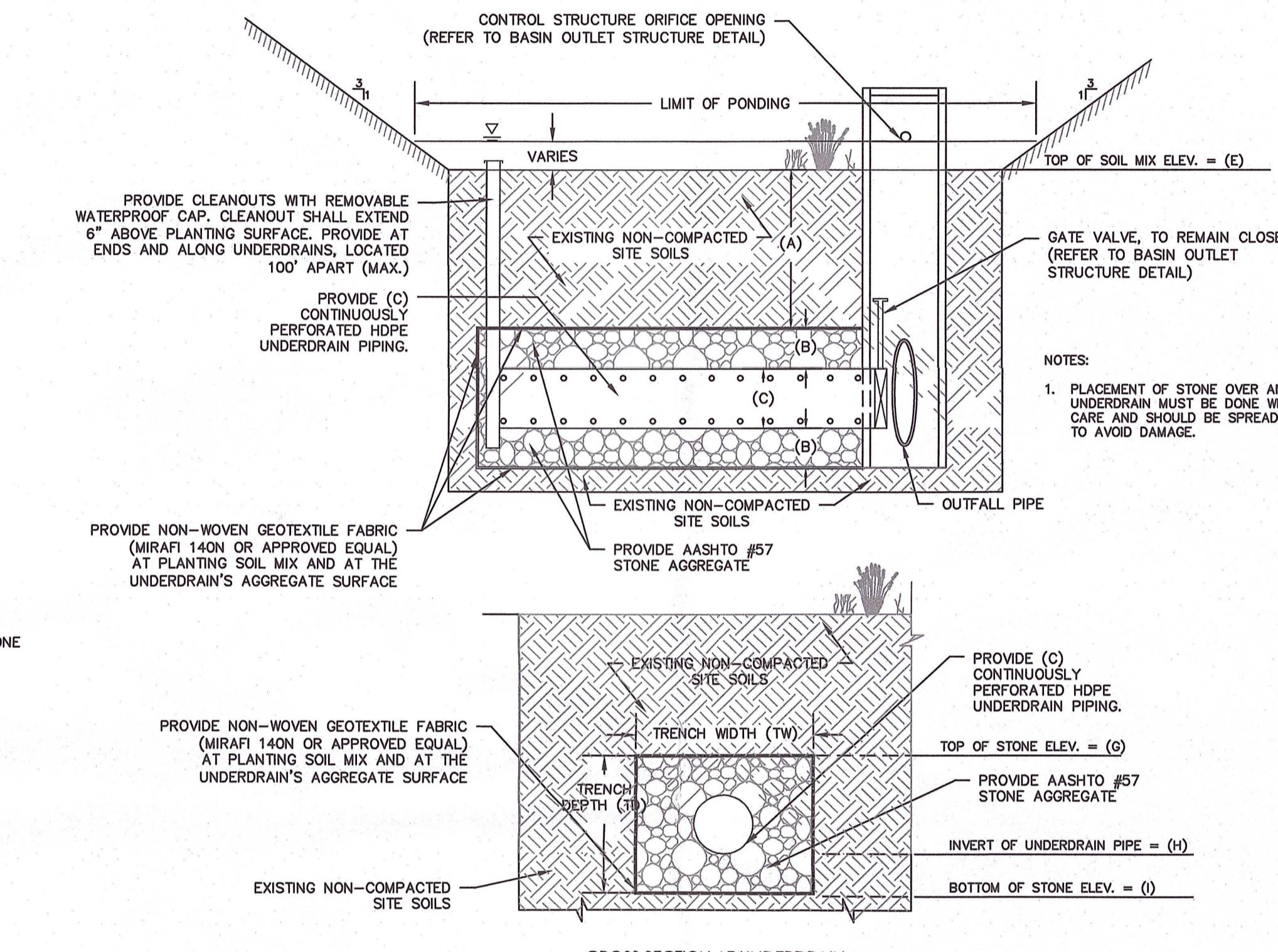


SECTION B-B



STRUCTURAL STEEL BIKE SAFE GRATE

N.T.S.

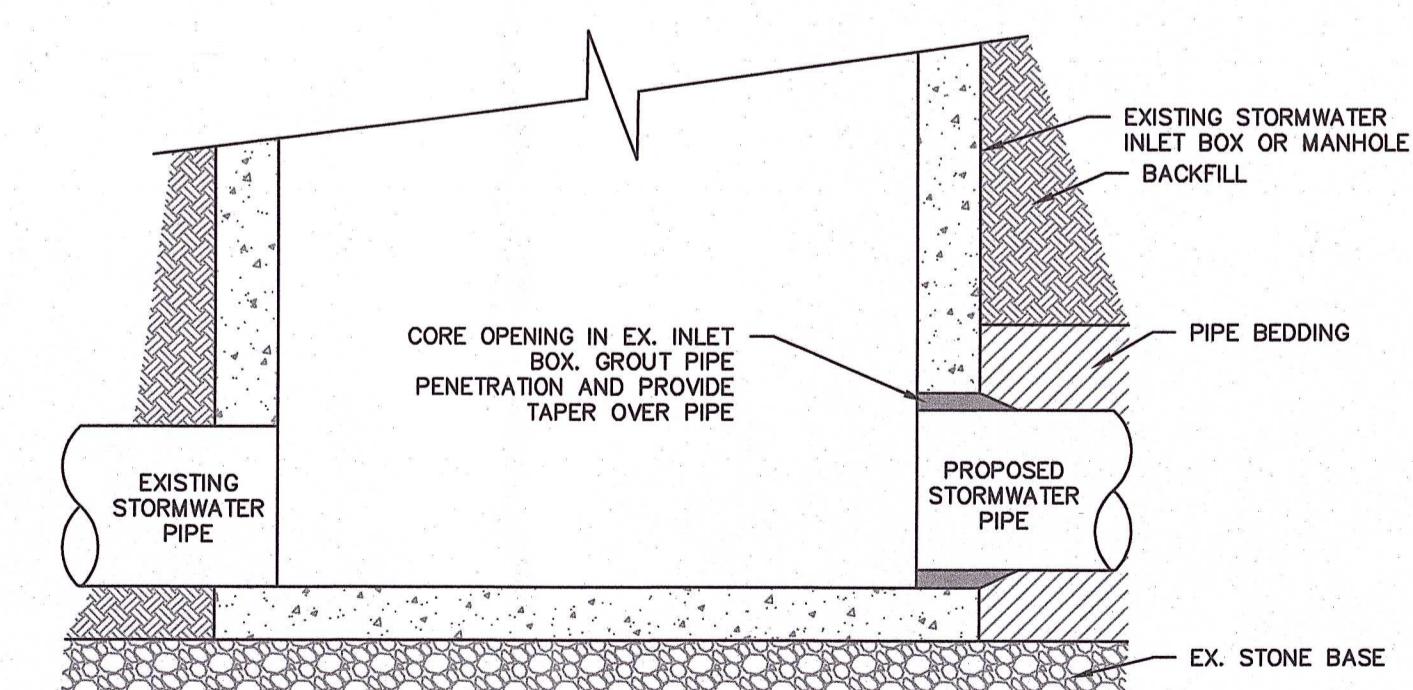


CROSS SECTION AT UNDERDRAIN

INFILTRATION FACILITY	DEPTH (A)	DEPTH (B)	INSIDE DIA. (C)	ELEV. (E)	ELEV. (G)	ELEV. (H)	ELEV. (I)	TRENCH WIDTH (TW)	TRENCH DEPTH (TD)
INFILTRATION BASIN	8"	4"	6"	374.50	373.83	373.00	372.67	18"	14"

INFILTRATION BASIN CROSS SECTION /
UNDERDRAIN DETAIL

N.T.S.



CONNECTION TO EXISTING
STORM DRAINAGE STRUCTURE

N.T.S.

STANDARD E&S NOTES

- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (SHEET NUMBER, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL NOTIFY THE OWNER AND/OR OPERATOR OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THESE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARED, THE PLAN PREPARED, AND A LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CIVILIC STAGES OF IMPLEMENTATION OF THE E&S PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.

CUMBERLAND COUNTY CONSERVATION DISTRICT
310 ALLEN ROAD, ROOM 301
CARLISLE, PA 17013
P: 717.240.7812

- AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIVE MATERIAL.
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT.
- ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1, AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FILL MATERIAL MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL, OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RETENETING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELLED, OR SWEEP INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES – 5 TO 12 INCHES ON COMPACTED SOILS. PRIOR TO PLACEMENT OF TOPSOIL, AREAS TO BE VEGETATED SHALL HAVE A MINIMUM DEPTH OF 2 INCHES OF TOPSOIL.
- 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 DETERIMENTAL TO PROPER GRADING AND SEEDING PREPARATION, COMPACTED SOILS SHOULD BE SCARIFIED 6 TO 12 INCHES ALONG CONTOUR whenever possible prior to seeding.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIVE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION, CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STABILIZATION MANAGEMENT. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
- FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$1,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

TEMPORARY SEEDING FOR SOIL STABILIZATION

1. SEEDING MIXTURE TYPE I (TOPSOIL STOCKPILES SPECIES:	ANNUAL RYEGRASS (70%) PERENNIAL RYEGRASS (30%)
% PURE LIVE SEED:	95%
FERTILIZER TYPE:	4LBS./MSF
FERT. APPLICATION RATE:	10-10-10
LIMING RATE:	12.5 LBS/1,000 SF
MULCH TYPE:	40 LBS/1,000 SF
MULCH RATE:	140 LBS/1,000 SF
ANCHOR MATERIAL:	EC3000 COPOLYMER TACKIFIER
ANCHORING METHOD:	SLURRY, MIX AND SPRAY
ANCHORING RATE OF APPLICATION:	3 LBS/ACRE
SEEDING DATE:	AS REQUIRED

SEED MIXTURES

CONFORMING TO THE PENNSYLVANIA SEED ACT OF 1965 (ACT NO. 187) AND AMENDMENTS, AND REGULATIONS OF THE PENNSYLVANIA DEPARTMENT OF AGRICULTURE, BUREAU OF PLANT INDUSTRY. HAVE THE PENNSYLVANIA DEPARTMENT OF AGRICULTURE, BUREAU OF PLANT INDUSTRY, CONDUCT PURITY AND GERMINATION ANALYSIS, FOLLOWING THE CURRENT RULES FOR TESTING SEEDS, OF THE ASSOCIATION OF OFFICIAL SEED ANALYSTS.

USE KENTUCKY BLUEGRASS, PERENNIAL RYEGRASS, CREEPING RED FESCUE, CHEWING FESCUE, HARD FESCUE, AND BIRDSFOOT TREFOL.

USE SEED, PRETESTED BY THE PENNSYLVANIA DEPARTMENT OF AGRICULTURE, IN 10-POUND (NET) WATERPROOF CONTAINERS, WITH A TAG ATTACHED TO EACH BAG.

USE A PREXIMED SEED WITH AN INSPECTION TAG, STAMPED, DATED, AND SIGNED BY THE DEPARTMENT OF AGRICULTURE INSPECTOR SEWN OR STAPLED TO THE OUTSIDE OF EACH BAG. DO NOT USE SEED FROM CONTAINERS THAT ARE NOT SEALED OR THAT HAVE BEEN STORED WITH HERBICIDES.

DO NOT USE SEED, UNLESS IT HAS BEEN INSPECTED AND SAMPLED, AS SPECIFIED, OR SAMPLED BY INDIVIDUAL SPECIES AND LOT NUMBER, AND MIXED, ON THE PROJECT, UNDER DEPARTMENT SUPERVISION.

PERMANENT SEED MIXTURES:

% PURE LIVE SEED: VARIES WITH SEEDING MIXTURE - MINIMUM 95%
ANCHOR MATERIAL: EC3000 COPOLYMER TACKIFIER
ANCHORING RATE: SLURRY, MIX AND SPRAY
SEEDING DATES: MARCH 15-MAY 30 AND AUGUST 15-OCTOBER 15

BASIN PLANTING SEED MIX

Retention Basin Floor Mix - Low Maintenance (ERNMX-126)*		
Seeding Rate	20-40 lb per acre	
Mix Type	Uplands & Meadows	
Species List	Puccinellia distans, "Alkaligrass, 'Fults'" Panicum clandestinum, "Tioga" (Deer tongue, 'Tioga') Agrostis stolonifera (Creeping Bentgrass) Elymus virginicus, PA Ecotype (Virginia Wildrye, PA Ecotype) Poa palustris (Fowl Bluegrass) Carex spinoidea, PA Ecotype (Fox Sedge, PA Ecotype) Juncus effusus (Soft Rush) Carex scoparia, PA Ecotype (Blunt Broom Sedge, PA Ecotype)	
	20.0% 19.0% 18.0% 18.0% 15.0% 5.0% 3.0% 2.0%	

*OR APPROVED EQUAL

ERNMX-126 IS PROVIDED BY:

ERNST SEEDS
8884 MERCER PIKE, MEADVILLE, PA 16335
800-873-3321
<https://www.ernstseed.com/>

MULCHING

MULCHES SHOULD BE APPLIED AT THE RATES SHOWN IN TABLE 11.6

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. NOTE: CRIMPING OF HAY OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.

POLYMERIC AND GUM TACKIFIERS MIXED AND APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS MAY BE USED TO TACK MULCH. AVOID APPLICATION DURING RAIN AND ON WINDY DAYS. A 24-HOUR CURING PERIOD AND A SOIL TEMPERATURE HIGHER THAN 45°F ARE TYPICALLY REQUIRED. APPLICATION SHOULD GENERALLY BE HEAVIEST AT EDGES OF SEDED AREAS AND AT CRESTS OF RIDGES AND BANKS TO PREVENT LOSS BY WIND. THE RECOMMENDER OF THE AREA SHOULD BE ADVISED UNIFORMLY. BINDERS MAY BE APPLIED AFTER MULCH IS SPREAD OR SPRAYED INTO THE MULCH AS IT IS BEING BLOWN ONTO THE SOIL. APPLYING STRAW AND BINDER TOGETHER IS GENERALLY MORE EFFECTIVE.

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 USED. THE APPLICATION RATE FOR ANY HYDROMULCH SHOULD BE 2,000 LB/ACRE AT A MINIMUM.

TABLE 11.6		
MULCH APPLICATION RATES		
MULCH TYPE	APPLICATION RATE (MIN.)	NOTES
STRAW	3 TONS 140 LB.	EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN
HAY	3 TONS 140 LB.	TIMOTHY, MIXED CLOVER AND TIMOTHY OR OTHER NATIVE FORAGE GRASSES
WOOD CHIPS	4-6 TONS 185-275 LB.	MAY PREVENT GERMINATION OF GRASSES AND LEGUMES
HYDROMULCH	1 TON 47 LB.	SEE LIMITATIONS ABOVE

SOILS

Ub URBAN LAND AND UDORTHENTS, 0 TO 8 PERCENT SLOPES

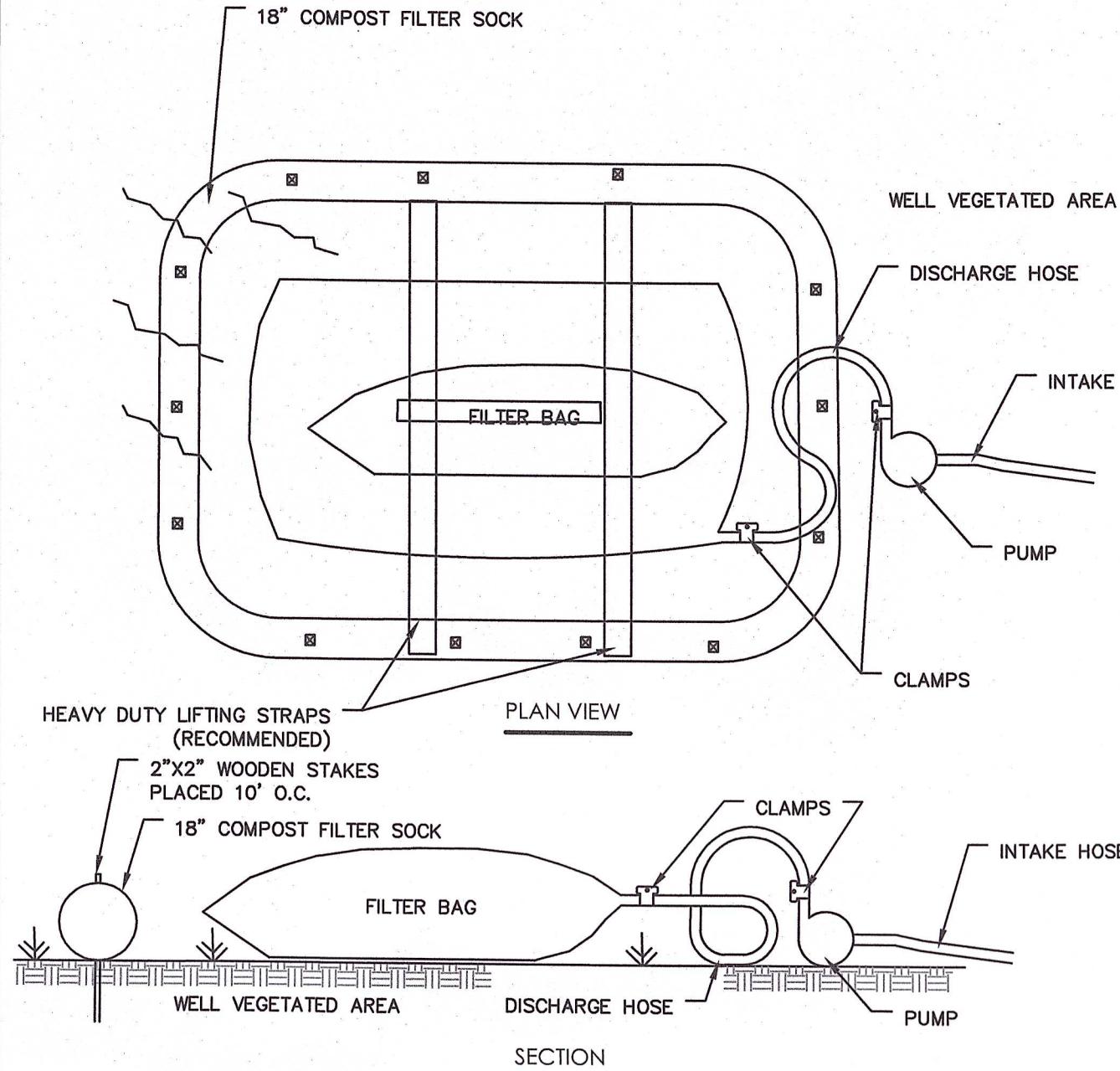
SOIL LIMITATIONS AND RESOLUTIONS

LIMITATIONS:
• CUT BANKS CAVE
• CORROSION OF UNCOATED STEEL AND CONCRETE
• DROUGHT
• EASILY ERODIBLE
• SEASONAL HIGH WATER TABLE
• HYDRIC/HYDRO INCLUSIONS
• LOW STRENGTH OR LANDSLIDE PRONE
• SLOW PERCOLATION
• POOR SOURCE OF TOPSOIL
• MODERATE POTENTIAL FOR FROST ACTION
• LOW SHRINK-SWELL
• POTENTIAL SINKHOLES

RESOLUTIONS:
• EXCAVATION WILL BE PROPERLY SUPPORTED BY SHEETING AND SHORING TO PREVENT CAVES
• NO UNPROTECTED STEEL IS EXPECTED TO BE IN DIRECT CONTACT WITH SOILS
• NO WETLANDS ARE IN THE DEVELOPMENT AREA. DELINEATED WETLANDS ADJACENT TO LOD WILL BE PROTECTED BY BMPs DURING CONSTRUCTION
• PROVIDE POSITIVE DRAINAGE ACROSS THE SITE
• STONE BASE WILL BE PROVIDED TO PREVENT SHRINK-SWELL FROM EFFECTING FINISHED SURFACES
• EROSION CONTROL MATTING AND IMMEDIATE STABILIZATION WILL BE USED ON ALL STEEP SLOPES TO LIMIT EROSION
• SITES WILL BE STABILIZED AS INDICATED ON THE PLAN
• SATISFACTORY SOIL AND FILL COMPACTION SPECIFICATIONS ARE INCLUDED ON THE PLAN TO ADDRESS THE CLAYEY SUBSOIL, SHRINK-SWELL POTENTIAL, AND COMPACTION LIMITATIONS.

TABLE 11.6		
SOIL AMENDMENT APPLICATION RATE EQUIVALENTS		
SOIL AMENDMENT	PERMANENT SEEDING APPLICATION RATE	NOTES
AGRICULTURAL LIME	6 TONS 240 LB.	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
10-20-20 FERTILIZER	1,000 LB. 25 LB.	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS

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

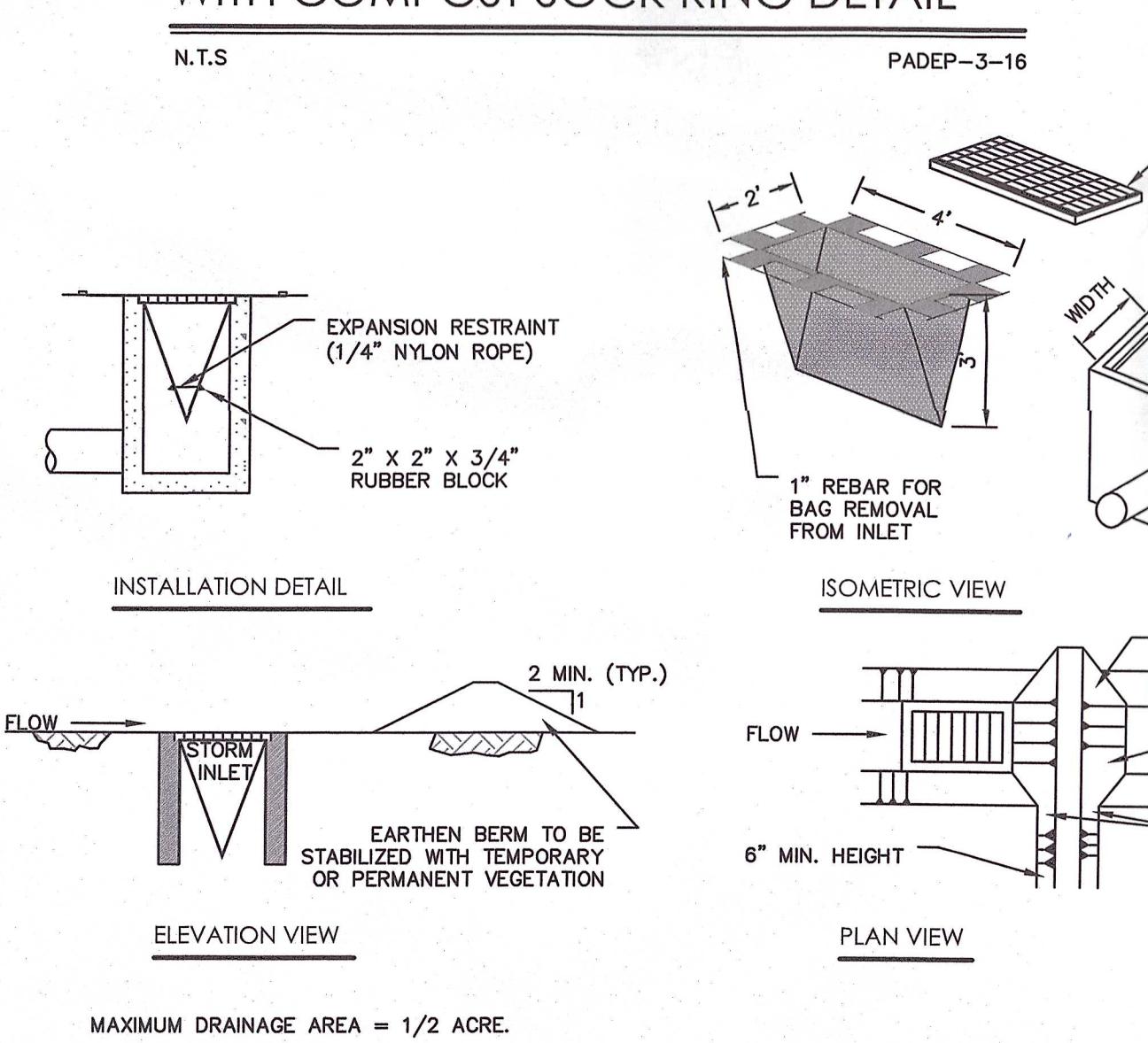
PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON BASINS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING BASINS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREA, WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS SHALL PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

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

PUMPED WATER FILTER BAG WITH COMPOST SOCK RING DETAIL



MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR BASIN. BERM SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.

AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM BASINOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF BASINING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

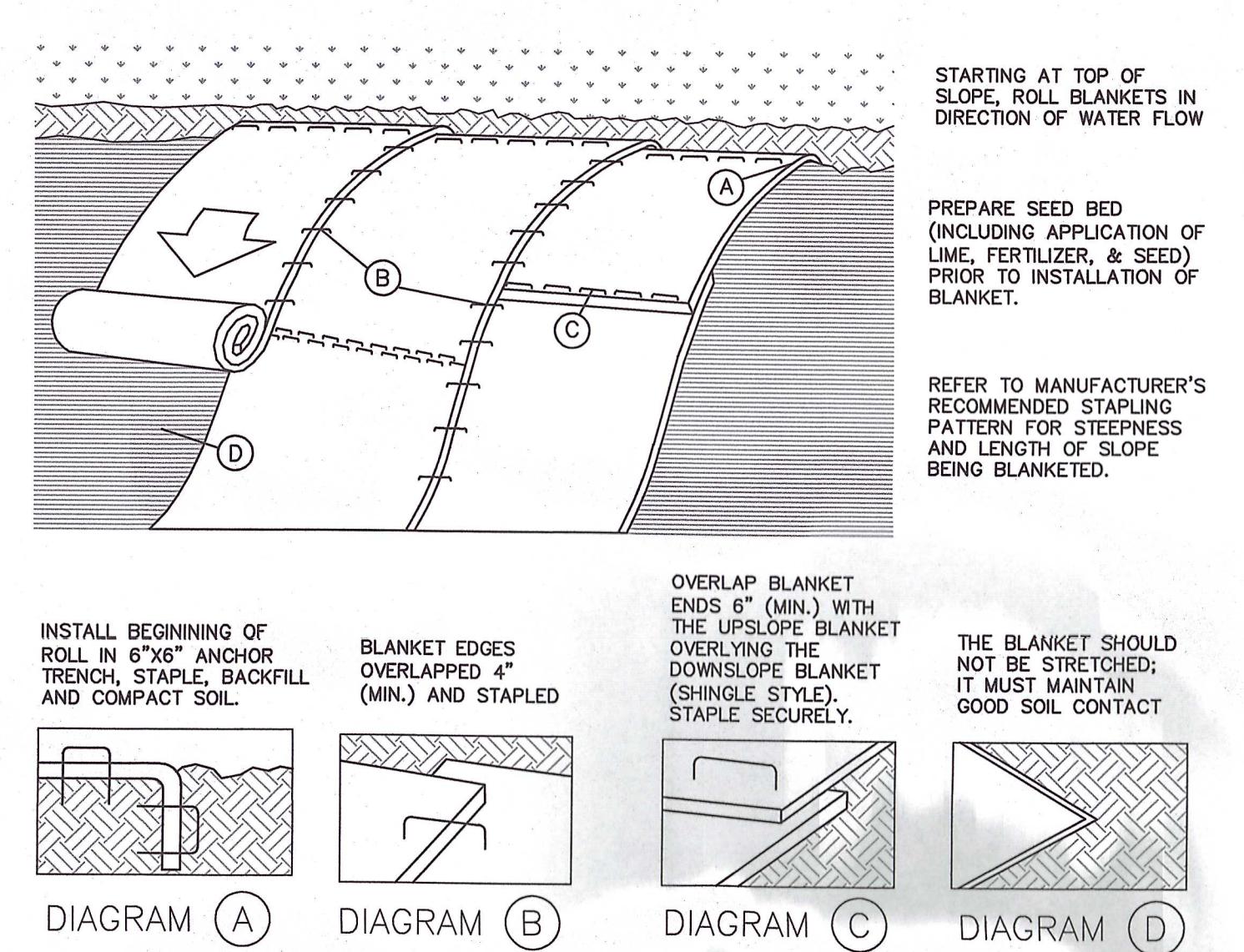
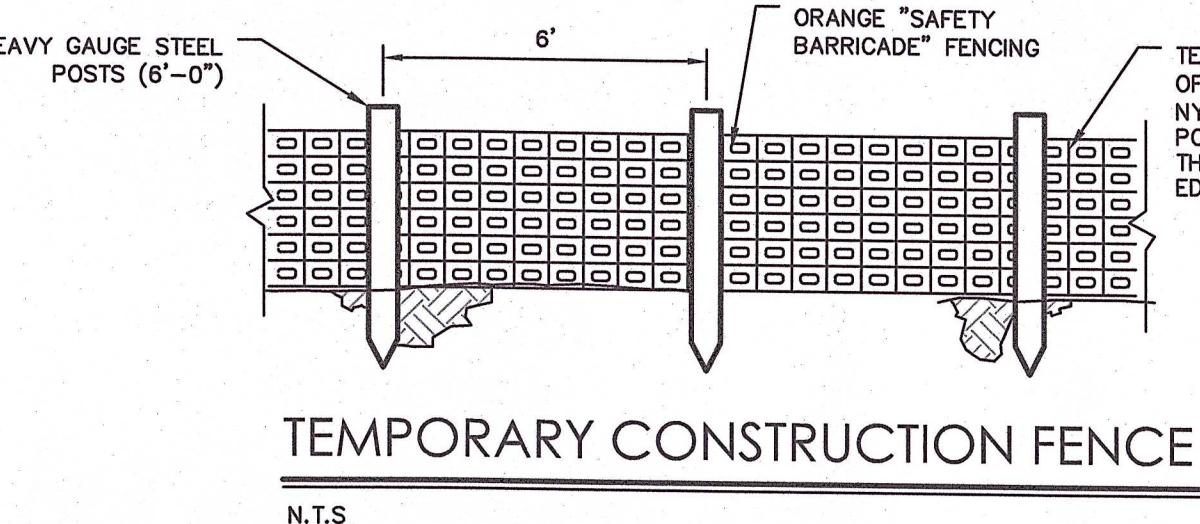
INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

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

FILTER BAG INLET PROTECTION - TYPE M INLET DETAIL

N.T.S.

PADEP-4-16



SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.

SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.

BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DON NOT STRETCH BLANKET.

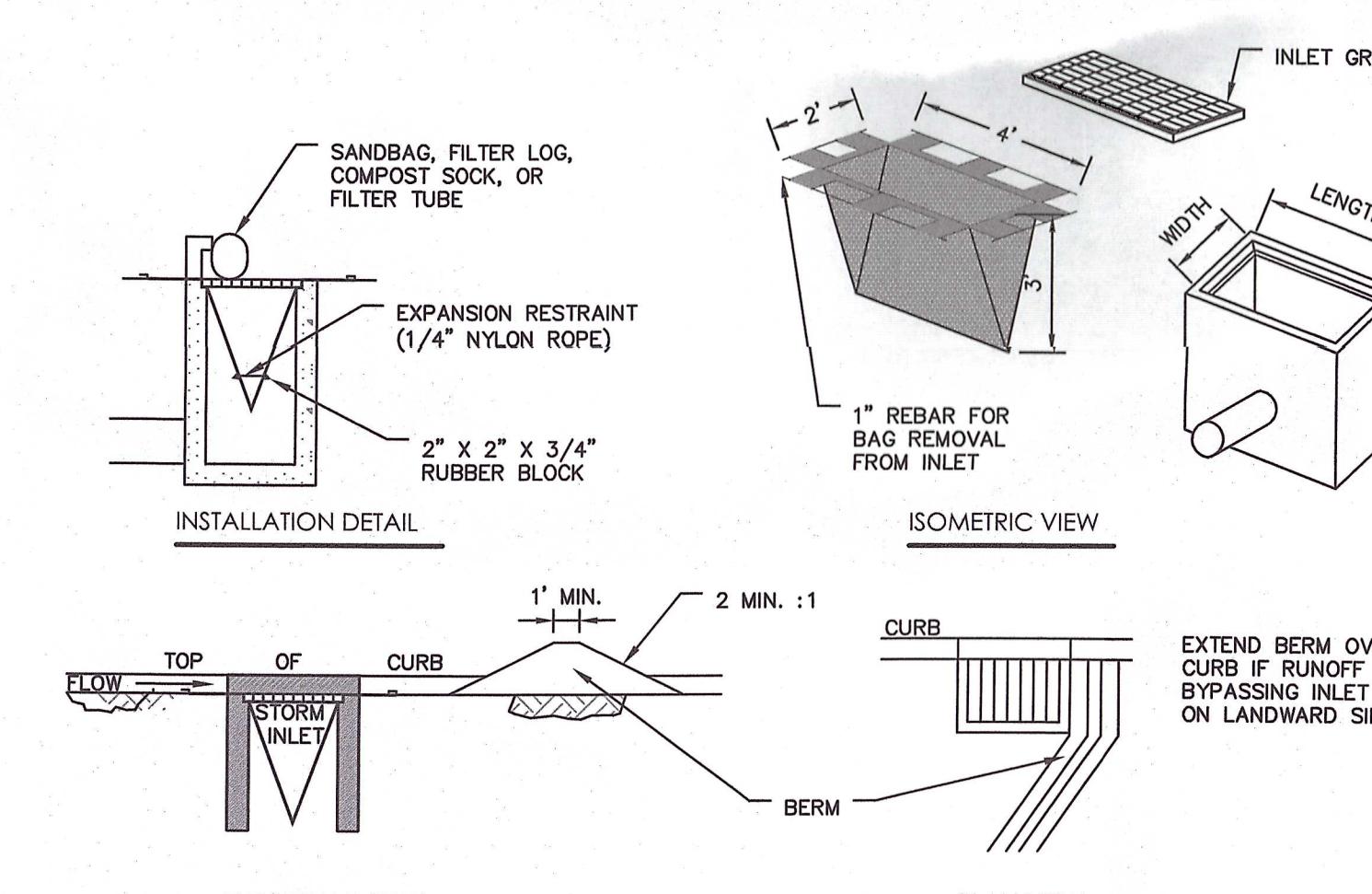
THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

EROSION CONTROL BLANKET INSTALLATION DETAIL

N.T.S.

PAEC-11-1



INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR BASIN. BERM SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.

AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM BASINOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF BASINING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

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

FILTER BAG INLET PROTECTION - TYPE C INLET DETAIL

N.T.S.

PADEP-4-15

Material Type	3 mil HDPE	5 mil HDPE	5 mil HDPE	Multi-Filament Polypropylene (MFPP)	Hea Multi-Poly (HC)
Material Characteristics	Photo-degradable	Photo-degradable	Bio-degradable	Photo-degradable	Photo-degradable
Sock Diameters	12"	12"	18"	18"	12"
Mesh Opening	3/8"	3/8"	3/8"	3/8"	3/8"
Tensile Strength	26 psi	26 psi	44 psi		21
UV Stability % Original Strength (ASTM G-155)	23% at 1000 hr.	23% at 1000 hr.	100% at 1000 hr.	1C	1C
Minimum Functional Longevity	6 months	9 months	6 months	1 year	2

Two-ply systems

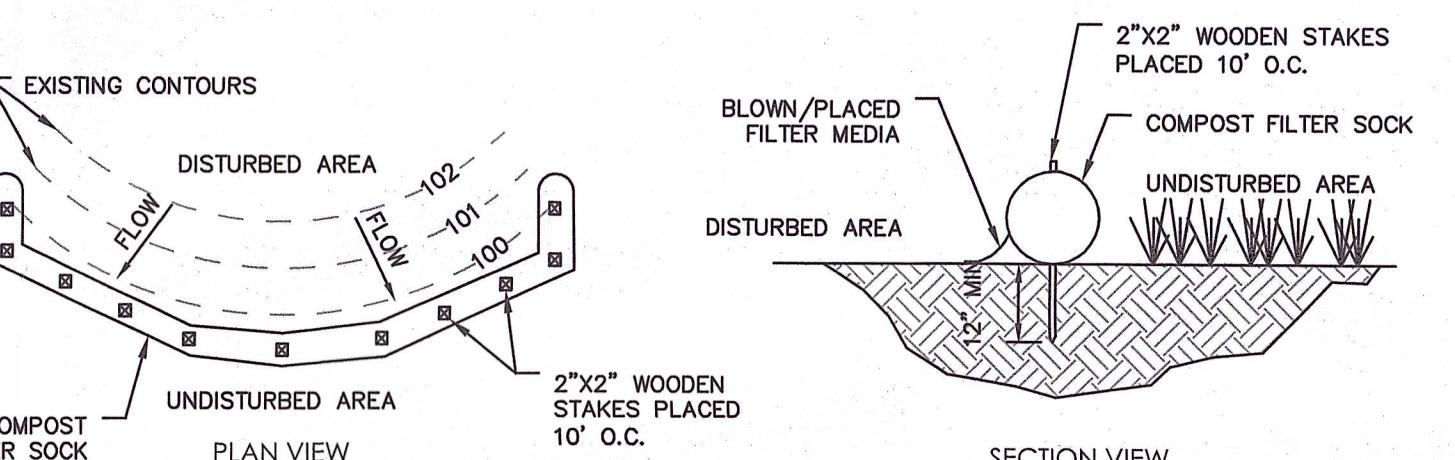
HDPE biaxial net
Continuously wound
Fusible-welded junctures
3/4" X 3/4" Max. aperture size
Composite Polypropylene Fab (Woven fabric and non-woven fit mechanically fused via needle p)
3/16" Max. aperture size

Inner Containment Netting

Outer Filtration Mesh

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

TABLE 4.2 COMPOST STANDARDS	
ORGANIC MATTER CONTENT	25%-100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5 - 8.5
MOISTURE CONTENT	30% - 60%
PARTICLE SIZE	30%-50% PASS THROUGH 3/8" SIEVE
SOLUBLE SALT CONCENTRATION	5.0 DS/100 (MG/100 GM) MAXIMUM



SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 FOUND IN PENNSYLVANIA DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT (FIGURE 4.1 FOUND IN PENNSYLVANIA DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL). MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN IN FIGURE 4.2. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS. PHOTODEGRADABLE SOCKS AFTER 1 YEAR.

POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

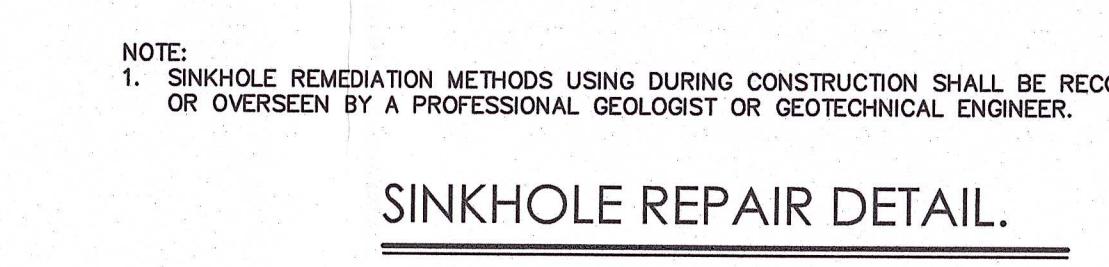
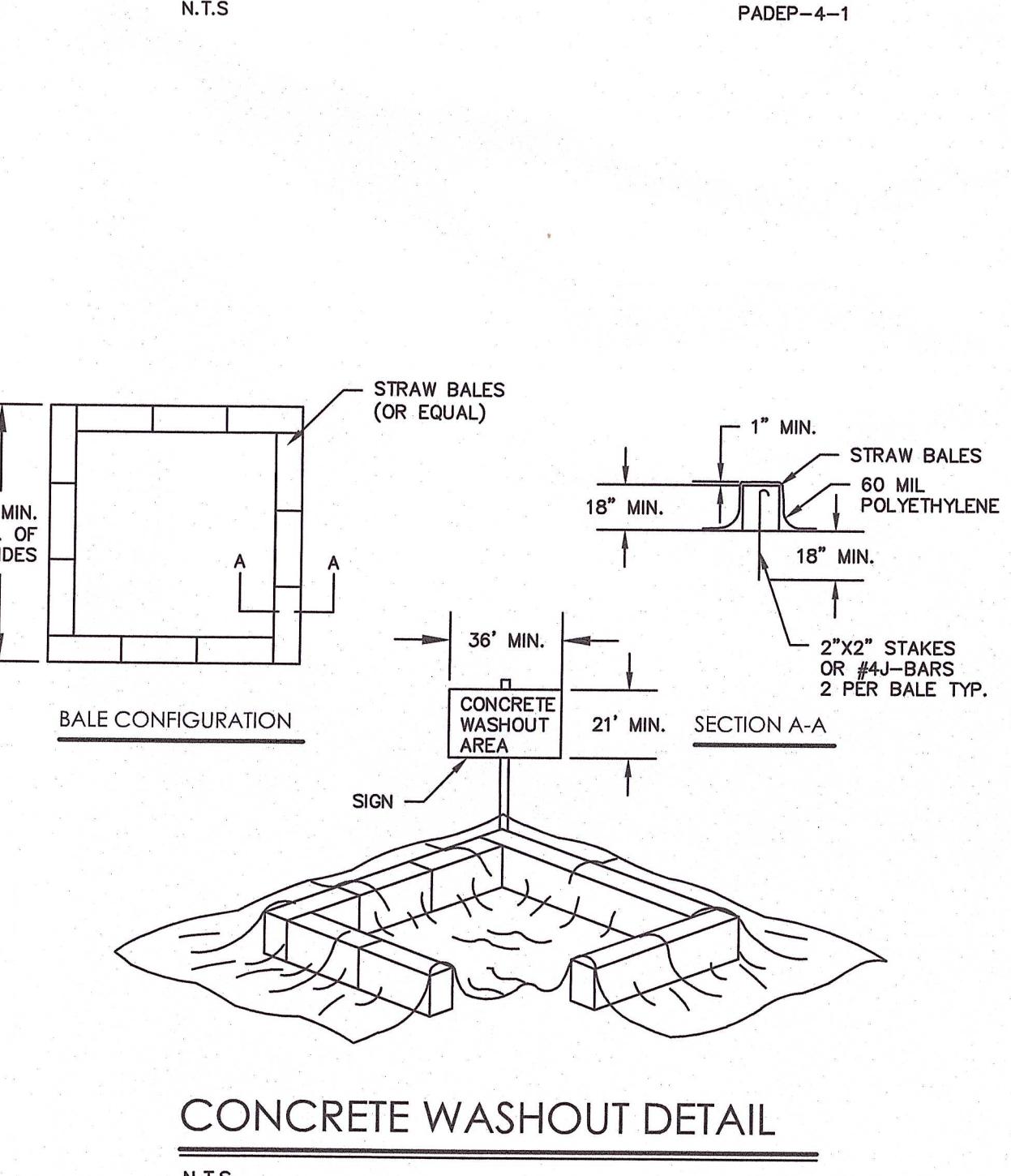
UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

WHERE SOCKS ARE PLACED ON PAVED SURFACES, CONCRETE BLOCKS SHOULD BE USED IMMEDIATELY DOWNSLOPE OF THE SOCKS (AT THE SAME INTERVALS RECOMMENDED FOR THE STAKES) TO HELP HOLD THE SOCK IN PLACE.

COMPOST FILTER SOCK DETAIL

N.T.S.

PADEP-4-1



NOTE: 1. SINKHOLE REMEDIATION METHODS USING DURING CONSTRUCTION SHALL BE RECOMMENDED BY OR OVERSEEN BY A PROFESSIONAL GEOLOGIST OR GEOTECHNICAL ENGINEER.

SINKHOLE REPAIR DETAIL.

N.T.S.

SEQUENCE OF CONSTRUCTION (LOWER ALLEN COMMONS)

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED AND IMMEDIATELY STABILIZED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.

IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES (BMPs) TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.

AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARED, AND A REPRESENTATIVE OF THE CUMBERLAND COUNTY CONSERVATION DISTRICT (CCCD) TO AN ON-SITE PRE-CONSTRUCTION MEETING.

CONTACT THE CCCD A MINIMUM OF THREE (3) DAYS PRIOR TO EARTH MOVING ACTIVITIES.

AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

ALL EARTHMOVING ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CONSTRUCTION SEQUENCE. EACH STAGE SHALL BE COMPLETED AND IMMEDIATELY STABILIZED BEFORE THE NEXT STAGE IS STARTED.

ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG OR EQUIVALENT FACILITY, OVER UNDISTURBED VEGETATED AREAS.

CONTRACTOR SHALL FIELD MARK ALL WATER OF THE COMMONWEALTH, INCLUDING STREAM BUFFERS, WETLAND BOUNDARIES, SPRING SEEPS, AND FLOODWAYS PRIOR TO EARTH DISTURBANCE.

CONTRACTOR SHALL FIELD MARK THE LIMIT OF DISTURBANCE WITH TEMPORARY CONSTRUCTION FENCE OR OTHER MEASURES APPROVED BY CCCD AND THE ENGINEER PRIOR TO EARTH DISTURBANCE.

ALL BUILDING MATERIALS AND WASTES MUST BE RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE CHAPTER 260, §§260.1 ET SEQ., 271.1, AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.

INSPECT THE SITE AND REPAIR ALL EXISTING SINKHOLES DISCOVERED (COORDINATE WITH GEOTECHNICAL ENGINEER). RUNOFF SHOULD NOT BE PERMITTED TO DIRECTLY ENTER ANY SINKHOLE DURING CONSTRUCTION. BERMS AND/OR SWALES SHALL BE CONSTRUCTED AND MAINTAINED AROUND ALL SINKHOLES TO PREVENT SURFACE WATER FROM ENTERING AND/OR ACCUMULATION AROUND ANY SINKHOLE UNTIL IT HAS BEEN STABILIZED AND THE OVERLYING CONSTRUCTION IS COMPLETE.

FOR CRITICAL STAGE ITEMS, NOTIFY OWNER/LICENSED PROFESSIONAL PRIOR TO IMPLEMENTATION OF STEP IN ACCORDANCE WITH PADEP REGULATIONS. UNDERLINED ITEMS INDICATE CRITICAL STAGES OF PCSM CONSTRUCTION

1. MAINTAIN EXISTING ACCESS DRIVE TO BONEIFSH GRILLE UNTIL CONSTRUCTION OF PROPOSED ACCESS DRIVE IS COMPLETE. THE CONTRACTOR SHALL ENSURE ROAD SURFACES WILL BE IN LINE, LAWN, PROPER TEMPORARY TRAFFIC CONTROL MEASURES WILL BE PROVIDED IF NECESSARY, AND EMERGENCY VEHICLES WILL NOT HAVE RESTRICTED ACCESS. THE OWNERS OF LOWER ALLEN COMMONS AND BONEIFSH GRILLE SHALL NOT BE NOTIFIED IF ACCESS WILL BE TEMPORARILY INTERRUPTED AS A RESULT OF CONSTRUCTION OF THE PROPOSED ACCESS DRIVE.

2. INSTALL AND MAINTAIN THE ROCK CONSTRUCTION ENTRANCE #1 DO NOT OBSTRUCT EXISTING ACCESS DRIVE TO BONEIFSH GRILLE. INSTALL TEMPORARY COMPOST FILTER SOCKS AND INLET PROTECTION (ON EXISTING INLETS) WHERE INDICATED ON THE PLAN. ALL VEHICLES ENTERING THE SITE SHALL DO SO VIA THE CONSTRUCTION ENTRANCE. TRACTING OF MUD ONTO PUBLIC ROADS IS NOT ALLOWABLE.

3. WORK ON SPRINGHILL SUITES PORTION OF THE SITE MAY BEGIN (SEE SEPARATE SEQUENCE OF CONSTRUCTION).

4. INSTALL TEMPORARY CONSTRUCTION FENCE AROUND BASIN AREAS AS SHOWN ON PLAN. GRADE THE AREAS WITH TRACKED EQUIPMENT ONLY. RELIEVE ANY BASIN AREAS THAT BECOME COMPACTED DURING GRADE BY RIPPLING USING A SOLID-SHANK RIPPER TO A DEPTH OF 20 INCHES. TOPSOIL STOCKPILE AREAS SHOULD BE DECOMPACTED AFTER REMOVAL OF THE SOIL.

5. DEMOLISH ON SITE STRUCTURES AND CLEAR DEVELOPMENT AREAS. NO DEMOLITION SHALL OCCUR IN THE EXISTING ACCESS DRIVE TO BONEIFSH GRILLE UNTIL THE CONSTRUCTION OF THE PROPOSED ACCESS DRIVE IS COMPLETE.

6. STRIP TOPSOIL WITHIN THE AREA OF PROPOSED IMPROVEMENTS AND STOCKPILE. THE TEMPORARY AREAS PROVIDED, STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET, AND SIDE SLOPES MUST ALSO BE 2:1 OR FLATTER. SEED WITH A TEMPORARY COVER, AND MULCH, SURROUND WITH FILTER SOCKS. BEGIN FILLING AREAS AS SHOWN ON THE PLAN. REINSTALL TEMPORARY CONSTRUCTION FENCE IN AREAS WHERE PAVEMENT REMOVAL/DEMOLITION/TOPSOIL REMOVAL OVERLAPS PROPOSED BASIN FOOTPRINTS. CESSION OF ACTIVITY FOR AT LEAST 4 DAYS REQUIRES TEMPORARY STABILIZATION.

7. EXCAVATE, FILL AND ROUGH GRADE THE SITE TO THE PROPOSED ELEVATIONS AS SHOWN ON THE GRADING/UTILITIES PLAN. DO NOT GRADE INFILTRATION AREAS AT THIS TIME.

8. INSTALL THE PROPOSED SANITARY SEWER, WATER LINE, AND ALL OTHER UTILITIES AS SHOWN ON THE PLAN. TRENCHES MUST BE BACKFILLED AT THE COMPLETION OF EACH DAY. COORDINATE WITH SPRINGHILL SUITES IMPROVEMENTS FOR UTILITY LATERAL/STUB CONNECTIONS.

9. CONSTRUCT DRIVEWAYS, SIDEWALK AND UTILITY SERVICE CONNECTIONS.

10. INSTALL/MODIFY BASIN (SEE BMP SEQUENCE OF CONSTRUCTION.)

11. INSTALL STORM SEWER INLETS, PIPES, AND MANHOLES BEGINNING AT THE DOWNSTREAM CONNECTIONS AND WORKING UPSTREAM. TRENCHES MUST BE BACKFILLED AT THE COMPLETION OF EACH DAY. ALL STORM SEWER CONSTRUCTION INCLUDES TRENCHING, BACKFILLING, APPLYING FINAL STABILIZATION, AND PIPE OUTLET PROTECTION. COORDINATE WITH SPRINGHILL SUITES IMPROVEMENTS FOR STORM SEWER CONNECTIONS TO PROPOSED INLETS AND STORM PIPE STUBS. INSTALL INLET PROTECTION.

12. REMOVE ROCK CONSTRUCTION ENTRANCE #1. PAVE ROADWAYS WITH PERMANENT ASPHALT BASE COURSE AS SOON AS PRACTICAL TO PREVENT EROSION. PAVE ROADWAYS WITH PERMANENT ASPHALT MARINGE COURSE.

13. FINISH GRADING. PLACE REMAINING TOPSOIL, APPLY SOIL AND LANDSCAPING.

14. ONCE ALL AREAS ARE STABILIZED WITH VEGETATION OR PAVEMENT, FLUSH ALL ACCUMULATED SEDIMENT IN PIPES AND INLETS. CLEAN OUT SEDIMENT AND DEBRIS FROM STORMWATER COLLECTION AND CONVEYANCE SYSTEM.

15. CONTACT CCCD FOR FINAL INSPECTION AND APPROVAL OF STABILIZATION. REMOVE ALL REMAINING SOIL EROSION AND SEDIMENT CONTROL MEASURES (SILT SOCK, INLET PROTECTION, ETC.), ONLY AFTER SITE IS COMPLETELY STABILIZED (WITH APPROVAL OF THE CUMBERLAND COUNTY CONSERVATION DISTRICT). IMMEDIATELY SEED AND STABILIZE ANY AREAS DISTURBED DURING REMOVAL OF BMPs.

STABILIZATION - CURRENT REGULATIONS STATE:

A. UPON COMPLETION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION.

B. EROSION AND SEDIMENT CONTROL BMP'S SHALL BE IMPLEMENTED AND MAINTAINED UNTIL THE PERMANENT STABILIZATION IS COMPLETED.

C. FOR AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY TO BE CONSIDERED PERMANENTLY STABILIZED, THE DISTURBED AREAS SHALL BE COVERED WITH ONE OF THE FOLLOWING:

A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION.

AN ACCEPTABLE BMP THAT PERMANENTLY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION.

INFILTRATION BASIN

BMP SEQUENCE OF CONSTRUCTION

1. ALL AREAS DESIGNATED FOR INFILTRATION SHALL NOT RECEIVE RUNOFF UNTIL THE CONTRIBUTORY DRAINAGE AREA HAS ACHIEVED FINAL STABILIZATION.

2. REMOVE EXISTING FENCE FOR ACCESS, AS NECESSARY.

3. REMOVE ANY BUILT UP SEDIMENT IN THE EXISTING FOREBAY AREAS.

4. EXCAVATE INFILTRATION BASIN TO BOTTOM OF UNDERDRAIN, OVEREXCAVATE 2 INCHES AND DECOMPACT SUBGRADE A MINIMUM 8 INCHES. ONLY IF THE SOIL IS COMPACTED OR THE LIMITING ZONE IS REACHED; TO RESTORE SOIL COMPOSITION AND POROSITY AS A RESULT OF UNPERMITTED COMPACTION OF BASIN FOOTPRINT, DECOMPACT TO A DEPTH OF 28 INCHES MIN. AT NO ADDITIONAL COST TO THE OWNER. MAINTAIN A MINIMUM DEPTH TO BEDROCK OF 12 FEET. IF FLOOR CANNOT BE DECOMPACTED, USE ENGINEERED FILL MATERIAL SECTION DURING SITE CONSTRUCTION. VIRGIN SOIL SHALL BE PROTECTED FROM COMPACTION BY HEAVY EQUIPMENT OPERATION OR STORAGE OF FILL OR CONSTRUCTION MATERIAL.

5. A QUALIFIED PROFESSIONAL SHALL TEST THE INFILTRATION RATES OF THE BASINS TO ENSURE THAT THE DESIGN INFILTRATION RATE IS BEING ACHIEVED; BASIN: 0.50 TO 10.00 IN/HR

6. INSTALL UNDERDRAIN AND PLANTING SOIL INCLUDING GEOTEXTILE, STONE, PIPE, FITTINGS, AND CLEAUNOTS.

7. INSTALL/MODIFY EXISTING OUTLET CONTROL STRUCTURE CONFIGURATION AS NEEDED PER PLANS AND DETAILS.

8. INSTALL COMPOST FILTER SOCK AT BOTTOM OF BASIN. SOILS IMPACTED BY SEDIMENTATION SHALL BE REMOVED (MINIMUM DEPTH OF 12 INCHES) AND REPLACED WITH ENGINEERED SOIL TO BASIN BOTTOM ELEVATION. ANY REMEDIATION WORK REQUIRED AS A RESULT OF UNAUTHORIZED COMPACTION OR SEDIMENTATION SHALL BE AT THE CONTRACTOR'S EXPENSE.

9. SEED AND STABILIZE SOIL IN BASIN WITH BASIN PLANTING MIX.

10. ONCE ALL UPSTREAM AREAS ARE STABILIZED, REMOVE TEMPORARY COMPOST FILTER SOCK WITHIN BASIN.