FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

PATTON TOWNSHIP,
CENTRE COUNTY, PA

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CERTIFICATION OF OWNERSHIP:
COMMONWEALTH OF PENNSYLVANIA
: SS:
COUNTY OF CENTRE
RECORD BOOK 2159 PAGE 862

ON THIS THE _____ DAY OF _____ 20_____, BEFORE ME, A NOTARY PUBLIC IN AND FOR THE COMMONWEALTH OF PENNSYLVANIA, THE OFFICER OF THE UNDERSIGNED PARTERSHIP PERSONALLY APPEARED:

STEVE HAFFNER, MEMBER
JCP GROUP, LLC

WHO ACKNOWLEDGED THAT THEY ARE THE OWNER OF THE PROPERTY SHOWN ON THIS PLAN, THAT THE PLAN THEREOF WAS MADE AT THEIR DIRECTION, THAT THEY ACKNOWLEDGE THE SAME TO BE THEIR ACT AND PLAN, AND DESIRE THE SAME TO BE RECORDED AS SUCH.

_____
SIGNATURE

IN WITNESS WHEREOF, I HEREUNTO SET MY HAND AND OFFICIAL SEAL.

_____
_____
NOTARY PUBLIC

MY COMMISSION EXPIRES_____ 20_____

PATTON TOWNSHIP BOARD OF SUPERVISORS:
APPROVED BY THE PATTON TOWNSHIP BOARD OF SUPERVISORS ON _____ 20 ____.

_____ _____ _____
CHAIR DATE

_____ _____ _____
SECRETARY DATE

PATTON TOWNSHIP PLANNING COMMISSION:
RECOMMENDED FOR APPROVAL BY THE PATTON TOWNSHIP PLANNING COMMISSION ON

_____ ___ 20 ____.

_____ _____ _____
CHAIR DATE

_____ _____ _____
SECRETARY DATE

PROFESSIONAL ENGINEER PLAN CERTIFICATION:
I, _____, A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF PENNSYLVANIA, DO HEREBY CERTIFY THAT THIS PLAN IS TRUE AND CORRECTLY REPRESENTS THE LOTS, LANDS, STREETS, ALLEYS, HIGHWAYS AND INFRASTRUCTURE AS DESIGNED AND PLOTTED BY ME FOR THE OWNERS OR AGENTS.

_____ _____ _____
JOSEPH G. KELLER, P.E. DATE
KELLER ENGINEERS

DESIGN ENGINEER STORMWATER CERTIFICATION:
I HEREBY CERTIFY THAT THE STORMWATER MANAGEMENT PLAN MEETS THE DESIGN CRITERIA AND STANDARDS OF THE PATTON TOWNSHIP STORMWATER MANAGEMENT ORDINANCE AND THE HALFMOON TOWNSHIP STORMWATER ORDINANCE.

_____ _____ _____
JOSEPH G. KELLER, P.E. DATE
KELLER ENGINEERS

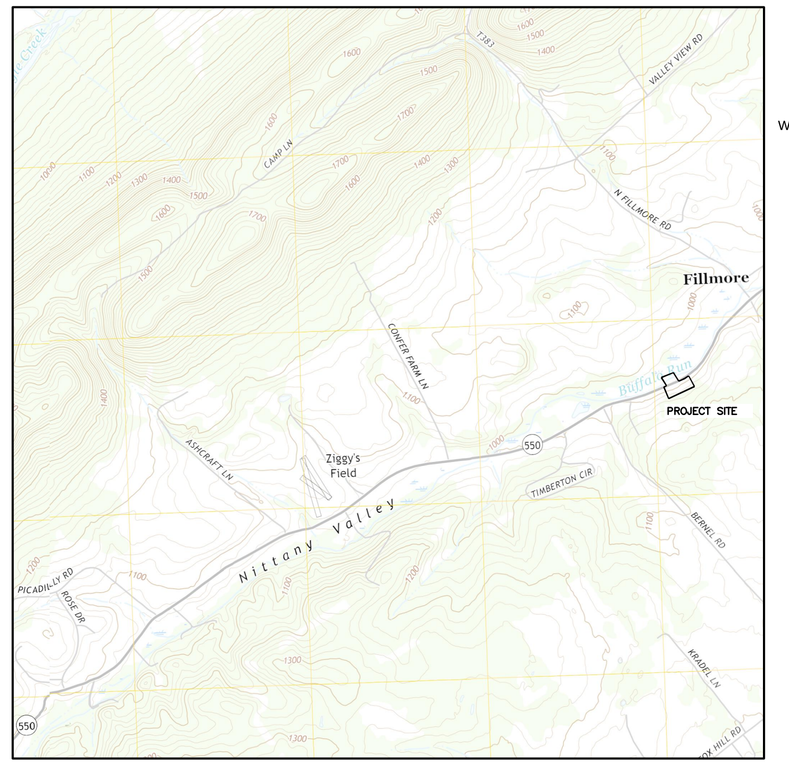
OWNER STORMWATER ACKNOWLEDGEMENT:
I HEREBY ACKNOWLEDGE THAT THE STORMWATER MANAGEMENT SYSTEM IS TO BE MAINTAINED IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE PROGRAM AND IS TO REMAIN A PERMANENT FIXTURE WHICH CANNOT BE ALTERED OR REMOVED WITHOUT APPROVAL OF PATTON TOWNSHIP.

_____ _____ _____
OWNER DATE

FIRE COMPANY APPROVAL ACKNOWLEDGEMENT:
RECOMMENDED FOR APPROVAL

_____ _____ _____
APPROVED BY

KELLER ENGINEERS
HOLLIDAYSBURG • STATE COLLEGE



LOCATION MAP 2000' 0' 2000'

LOCATION MAP

EXISTING UTILITY INFORMATION:

1. UTILITY LOCATION: AN EFFORT HAS BEEN MADE TO LOCATE AND ILLUSTRATE APPROXIMATE LOCATION OF EXISTING UNDERGROUND UTILITY LINES. HOWEVER, ALL BURIED UTILITIES ARE NOT NECESSARILY SHOWN.
2. ENGINEER UTILITY NOTIFICATION: THE ENGINEER HAS COMPLIED WITH THE REQUIREMENTS OF ACT 287 (1974) OF THE GENERAL ASSEMBLY OF THE COMMONWEALTH OF PENNSYLVANIA AS AMENDED BY ACT 50 (2017) KNOWN AS THE UNDERGROUND UTILITY LINE PROTECTION LAW. THIS LAW REQUIRES THAT A PRELIMINARY DESIGN NOTIFICATION BE MADE MORE THAN 90–DAYS PRIOR TO FINAL DESIGN COMPLETION, AND/OR A FINAL DESIGN NOTIFICATION BE MADE NOT LESS THAN 10 NOR MORE THAN 90 BUSINESS DAYS PRIOR TO FINAL DESIGN COMPLETION.
3. OWNER UTILITY NOTIFICATION: THE OWNER SHALL COMPLY WITH THE REQUIREMENTS OF ACT 287 (1974) OF THE GENERAL ASSEMBLY OF THE COMMONWEALTH OF PENNSYLVANIA AS AMENDED BY ACT 50 (2017) KNOWN AS THE UNDERGROUND UTILITY LINE PROTECTION LAW. THIS LAW REQUIRES THAT AN ADDITIONAL DESIGN NOTIFICATION BE MADE OR CAUSED TO BE MADE BY THE OWNER IF MORE THAN 90–DAYS LAPSES SINCE THE LAST DESIGN NOTIFICATION MADE BY THE ENGINEER. THIS ADDITIONAL DESIGN NOTIFICATION MUST BE MADE NO MORE THAN 90–DAYS PRIOR TO THE PROJECT BID DATE, OR IN ABSENCE OF A BID, NO MORE THAN 90–DAYS PRIOR TO THE CONSTRUCTION START DATE. THE OWNER MUST THEN REACT ACCORDINGLY:
   - BY CAUSING THE UPDATED UTILITY FIELD MARKINGS TO BE RE–SURVEYED.
   - BY CAUSING THE UPDATED UTILITY FIELD MARKINGS TO BE ADDED TO PROJECT BASE MAPPING AND CONSTRUCTION DOCUMENTS IF CHANGES HAVE OCCURRED SINCE LAST EFFORT.
   - BY CAUSING DESIGN ADJUSTMENTS TO BE MADE TO REFLECT UPDATED UTILITY LOCATIONS IF SO REQUIRED.
4. CONTRACTOR UTILITY NOTIFICATION: THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF ACT 287 (1974) OF THE GENERAL ASSEMBLY OF THE COMMONWEALTH OF PENNSYLVANIA AS AMENDED BY ACT 50 (2017) KNOWN AS THE UNDERGROUND UTILITY LINE PROTECTION LAW. THIS LAW REQUIRES THAT AN EXCAVATION NOTIFICATION BE MADE BY THE CONTRACTOR NOT LESS THAN THREE OR MORE THAN TEN WORKING DAYS' NOTICE PRIOR TO EXCAVATION.
5. NOTIFICATION CONTACT INFORMATION:

CALL BEFORE YOU DIG:	COMMON GROUND ALLIANCE NATIONAL ONE–CALL 811
CALL BEFORE YOU DIG:	PA ONE–CALL SYSTEM, INC.: 1–800–242–1776

6. NOTIFICATION HISTORY:
   - PA ONE–CALL PRELIMINARY DESIGN NOTIFICATION DATE: 2024–01–08
   - PA ONE–CALL PRELIMINARY DESIGN SERIAL #: 20240081387
   - PA ONE–CALL FINAL DESIGN NOTIFICATION DATE:
   - PA ONE–CALL FINAL DESIGN SERIAL #:
7. KNOWN UTILITIES: A LIST OF KNOWN UTILITIES HAVING FACILITIES IN THE GENERAL AREA, PER THE PA ONE CALL SYSTEM PRELIMINARY DESIGN NOTIFICATION SERIAL #20240081387, CAN BE FOUND BELOW. THESE UTILITY COMPANIES MAY OR MAY NOT HAVE FACILITIES IN THIS SPECIFIC PROJECT LOCATION.

UTILITY COMPANIES INDICATED	WITH PRESENCE IN AREA:
• ELECTRIC	FIRSTENERGY CORPORATION 21 SOUTH MAIN STREET AKRON, OHIO 44308 MELLYSSA ADAMS MADAMS@FIRSTENERGYCORP.COM 330.604.4073
• SANITARY SEWER	PENN STATE UNIVERSITY WASTEWATER TREATMENT PLANT 501 UNIVERSITY DRIVE STATE COLLEGE, PA 16801 CONTACT: JEFF MCDONALD JAM86@PSU.EDU 814.865.7701
• STORMWATER FACILITIES	PATTON TOWNSHIP 100 PATTON PLAZA STATE COLLEGE, PA 16803 CONTACT: GLENN COAKLEY GCOAKLEY@TWP.PATTON.PA.US 814.234.0271
• SANITARY SEWER	UNIVERSITY AREA JOINT AUTHORITY 1576 SPRING VALLEY ROAD STATE COLLEGE, PA 16801 CONTACT: DAREN BROWN DBROWN@UAJA.COM 814.238.5361 EXT 7715

PENNSYLVANIA ONE CALL SYSTEM, INC. 1-800-242-1776 STOP! CALL BEFORE YOU DIG!

3500 E. College Avenue
Suite 1100
State College, PA 16801
P:(814) 231-2925

KELLER ENGINEERS
CIVIL • STRUCTURAL • SURVEY
www.keller-engineers.com

REVISION	DESCRIPTION	DATE

FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

TITLE

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

KELLER ENGINEERS, INC. EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS CONTAINED IN THESE PLANS AND DESIGNS. THEY ARE NOT TO BE REPRODUCED, CHANGED, OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE WRITTEN PERMISSION AND CONSENT OF KELLER ENGINEERS, INC.

PROJECT NO.:	4769–1
FILE NAME:	TITLE & INDEX.DWG
DATE:	2025–01–03
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	

01

GENERAL:

1. PROJECT DESCRIPTION: FILLMORE MARKET & CAFE: PROPOSED COMMERCIAL BUILDING WITH ASSOCIATED INFRASTRUCTURE ELEMENTS INCLUDING PARKING LOT, ON LOT WATER SUPPLY, ON LOT SEWAGE DISPOSAL, UTILITY EXTENSIONS, STORMWATER MANAGEMENT, ETC.
2. PROPERTY OWNER: JCP GROUP, LLC 4082 BUFFALO RUN ROAD PORT MATILDA, PA 16870 814.954.2211
3. DEVELOPER: JCP GROUP, LLC 4082BUFFALO RUN ROAD PORT MATILDA, PA 16870 814.954.2211
4. PROPERTY LOCATION: 2781 BUFFALO RUN ROAD
5. SOURCE OF TITLE: RB 2159, PG 862 UPI #18-02-021
6. PROJECT ENGINEER: KELLER ENGINEERS, INC.
7. PROJECT SURVEYOR: KELLER ENGINEERS, INC.

ZONING:

1. ZONING DISTRICT: A1 – RURAL DISTRICT
2. CURRENT USE: UNDEVELOPED
3. PROPOSED USE: COMMERCIAL
4. AREA: 3.655 ACRES (DEED)
5. SETBACKS:
   A. FRONT 40' (ON COLLECTOR STREET)
   B. SIDE 30'
   C. REAR 75'
6. ALLOWABLE BUILDING HEIGHT:
   A. MAX ALLOWABLE: 45'
   B. PROPOSED: 30'
7. VEHICLE PARKING:
   A. REQUIRED: 24 STALLS
   B. PROVIDED: 26 STALLS
8. BICYCLE PARKING
   A. REQUIRED: 4 STALLS
   B. PROVIDED: 6 STALLS
9. BUILDING COVERAGE:
   C. MAX ALLOWABLE: 20%
   D. PROPOSED: 2.09%
10. TOTAL COVERAGE:
    A. MAX ALLOWABLE: 40%
    B. PROPOSED: 12.92%

ZONING VARIANCE:

1. A VARIANCE FROM ZONING ORDINANCE SECTION 425-67.A WAS GRANTED BY PATTON TOWNSHIP ZONING HEARING BOARD ON 2024-05-02.
2. VARIANCE ALLOWS FOR RELOCATION OF EXISTING NON-CONFORMING USE STORE BUILDING AND MODERNIZATION OF OPERATION.

SURVEY:

1. TOPOGRAPHIC SURVEY INFORMATION: EXISTING TOPOGRAPHIC FEATURES ARE BASED ON A FIELD SURVEY PERFORMED BY KELLER ENGINEERS, INC.
2. BOUNDARY SURVEY INFORMATION: PROPERTY AND ROW LINES ARE BASED ON A PLAN ENTITLED "REPLOT HULL FAMILY FARM", PREPARED BY MEASE ENGINEERING ASSOCIATES, RECORDED IN CENTRE COUNTY PLAT BOOK 38, PAGE 111, AS WELL AS EXISTING FIELD EVIDENCE. AS SUCH, THE DEPICTED BOUNDARY IS NOT TO BE CONSIDERED THE RESULT OF A COMPLETE BOUNDARY SURVEY.
3. HORIZONTAL CONTROL: BASED ON NAD 83, PA STATE COORDINATE SYSTEM – NORTH ZONE.
4. VERTICAL CONTROL: BASED ON NAVD 88.
5. OPERATIONS: CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD, AND PRESERVE ALL SURVEY CONTROL MONUMENTS IN THE AREA OF CONSTRUCTION.

GOVERNING CODES, REGULATIONS, PERMITS & APPROVALS:

1. PERMIT REQUIRED: PRIOR TO THE CONSTRUCTION OF ANY BUILDING, A BUILDING PERMIT SHALL BE APPLIED FOR FROM THE TOWNSHIP.
2. GENERAL: CONTRACTOR MUST BE AWARE THAT VARIOUS SITE PROJECT PERMITS AND APPROVALS ARE OR MUST BE IN EFFECT DURING CONSTRUCTION.
3. PERMIT CONDITIONS: MUST BE OBSERVED AT ALL TIMES.
4. PERMIT COPIES: MAINTAIN A COPY OF EACH APPLICABLE SITE PERMIT AT THE JOB SITE AT ALL TIMES.
5. SITE PERMITS IN EFFECT:
   A. LAND DEVELOPMENT APPROVAL – PATTON TOWNSHIP
   B. EROSION & SEDIMENTATION POLLUTION CONTROL PLAN APPROVAL – CENTRE COUNTY CONSERVATION DISTRICT.
   C. NPDES GENERAL PERMIT – PADEP
   D. HIGHWAY OCCUPANCY PERMIT – PENNDOT
6. CODE AND REGULATIONS COPIES: MAINTAIN A COPY OF ALL CITED CODES AND REGULATIONS AT THE JOB SITE AT ALL TIMES.
7. CODES AND REGULATIONS IN EFFECT:
   A. TITLE 25 OF THE PA CODE, CHAPTER 102 EROSION CONTROL.

SITE CONSTRUCTION:

1. STRICTEST PROVISION: SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THESE PLANS CONFLICT WITH THE GENERAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
2. REGULATORY COMPLIANCE: WORK SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL CODES AND REQUIREMENTS.
3. QUESTIONS: SHALL BE DIRECTED TO THE OWNER REPRESENTATIVE.
4. OBSERVE ALL REQUIREMENTS OF PENNDOT ROADWAY CONSTRUCTION STANDARDS CONCERNING DRIVEWAY CONSTRUCTION.
5. CONTRACTOR SHALL:
   - PROVIDE REQUIRED CONSTRUCTION LAYOUT.
   - VERIFY ALL FIELD CONDITIONS, AND COORDINATE DIMENSIONS, ELEVATIONS, AND DETAILS SHOWN ON THE DRAWINGS.
   - NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO PREPARATION OF SHOP DRAWINGS AND THE START OF CONSTRUCTION.
   - COORDINATE WORK OF ALL DISCIPLINES, SUBCONTRACTORS, AND UTILITY COMPANIES PERFORMING WORK AT THE SITE.
   - REPAIR ANY DAMAGE DONE TO EXISTING FEATURES AS A RESULT OF THIS WORK. DAMAGED ITEMS SHALL BE REPLACED IN KIND AND AT NO ADDITIONAL COST TO OWNER.
   - KEEP ROADS CLEAN AND FREE OF DEBRIS.
   - PROTECT ANY OPEN EXCAVATION AT END OF WORK SHIFT WITH FIVE-FOOT HIGH ORANGE SAFETY FENCE WITH POSTS AT SIX-FOOT SPACING.

UTILITIES:

1. GOVERNING AUTHORITY: COORDINATE GENERAL UTILITY SERVICE LATERAL INSTALLATIONS WITH THE APPROPRIATE UTILITY PROVIDER.
2. PROTECTION OF EXISTING UTILITIES: CONTRACTOR SHALL USE EXTREME CAUTION TO PROTECT ALL EXISTING UTILITIES WHEN WORKING IN PROXIMITY. THE LOCATION OF EXISTING UNDERGROUND UTILITIES INDICATED ON PLANS IS BASED ON A COMBINATION OF ORIGINAL DESIGN INFORMATION, PUBLIC AND HISTORICAL RECORDS, FIELD EVIDENCE, AND OWNER TESTIMONY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS WITH THE OWNERS OF SUCH UNDERGROUND UTILITIES PRIOR TO WORKING IN AREA TO CONFIRM EXACT LOCATION AND DEPTH, AND TO DETERMINE IF ADDITIONAL UTILITIES MAY BE PRESENT IN AREA. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UNDERGROUND UTILITIES.
3. UTILITY INSTALLATION: ALL UTILITY ROADWAY AND PARKING LOT CROSSINGS MUST BE INSTALLED PRIOR TO PLACEMENT OF PAVEMENT BASE COURSE.

GRADING:

1. EARTH WASTE MATERIAL: CONTRACTOR IS RESPONSIBLE FOR SECURING AN OFFSITE WASTE EARTH DISPOSAL AREA (IF EXCESS OR UNSUITABLE MATERIAL IS PRESENT). DISPOSAL AREA MUST HAVE AN APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR WASTE EARTH PLACEMENT.
2. FILL PLACEMENT: ENGINEERED FILL SHALL BE PLACED BENEATH ANY PROPOSED BUILDING FOOTPRINT AND TO A LINE 30' BEYOND ANY PROPOSED BUILDING ENVELOPE. STANDARD PLACEMENT TECHNIQUE MAY BE USED IN OTHER FILL AREAS.
3. EFFECTUATE FINAL GRADING TO ACHIEVE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES, AND TOWARDS STORMWATER COLLECTION AND CONVEYANCE FACILITIES.

HIGHWAY OCCUPANCY PERMIT – GENERAL:

1. DRIVEWAY CLASSIFICATION: MEDIUM VOLUME
2. THE EXISTING SPEED LIMIT ON SR 0550 IS 35 MPH.
3. THE RIGHT-OF-WAY IS FREE ACCESS.
4. ALL WORK IN PA STATE HIGHWAY RIGHT-OF-WAY IS TO BE PERFORMED CONSIST WITH THE FOLLOWING:
   - PENNDOT PUBLICATION 13M, DESIGN MANUAL PART 2 – HIGHWAY DESIGN
   - PENNDOT PUBLICATION 34, APPROVED AGGREGATE PRODUCERS (BULLETIN 14)
   - PENNDOT PUBLICATION 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15)
   - PENNDOT PUBLICATION 41, PRODUCERS OF BITUMINOUS MATERIALS (BULLETIN 41)
   - PENNDOT PUBLICATION 42, PRODUCERS OF READY MIX CONCRETE (BULLETIN 42)
   - PENNDOT PUBLICATION 46, TRAFFIC ENGINEERING MANUAL
   - PENNDOT PUBLICATION 72M, STANDARDS FOR ROADWAY CONSTRUCTION
   - PENNDOT PUBLICATION 111, PAVEMENT MARKINGS AND SIGNING STANDARDS
   - PENNDOT PUBLICATION 212, OFFICIAL TRAFFIC CONTROL DEVICES
   - PENNDOT PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES
   - PENNDOT PUBLICATION 408, SPECIFICATIONS
5. DETAILS, OTHER THAN THOSE INDICATED, ARE ON THE FOLLOWING STANDARD DRAWINGS:
   - RC-64M JUNE 1, 2010 CURBS AND GUTTERS
   - RC-70M FEB 8, 2019 PERIMETER CONTROL DEVICES
   - RC-72M FEB 8, 2019 INLET AND OUTLET PROTECTION
6. THE DRIVEWAY HAS BEEN DESIGNED (AND WILL BE CONSTRUCTED AND MAINTAINED) CONSISTENT WITH TITLE 67, CHAPTER 441 REGULATIONS.
7. PA STATE HIGHWAY RIGHT-OF-WAY MAY NOT BE USED FOR PARKING.
8. PERMITTEE IS RESPONSIBLE FOR MAINTENANCE OF ALL AUTHORIZED STRUCTURES, FACILITIES, AND DRAINAGE.
9. PERMITTEE IS RESPONSIBLE FOR MAINTENANCE OF ALL AUTHORIZED SIGNS AND PAVEMENT MARKINGS.
10. CONTACT PENNSYLVANIA ONE-CALL (1-800-242-1776) THREE WORKING DAYS BEFORE EXCAVATION OR DEMOLITION WORK. SERIAL NUMBER FOR COLLEGE TOWNSHIP.
11. ANTICIPATED AVERAGE DAILY TRAFFIC (ADT) FOR THE PROPOSED ACCESS IS:
    - CARS: 2,121
    - SINGLE UNIT TRUCKS: 44
    - COMBINATION TRUCKS: 0
    - TOTAL: 2,165
12. DISTANCE TO:
    - NEAREST INTERSECTION EAST: 2,000 FEET SOUTH FILLMORE ROAD
    - NEAREST INTERSECTION WEST: 1,500 FEET BERNEL ROAD
    - NEAREST TRAFFIC SIGNAL IS: SITE IS NOT PROXIMATE TO ANY TRAFFIC SIGNALS
    - NEAREST OPPOSITE DRIVEWAY EAST: 1,400 FEET
    - NEAREST OPPOSITE DRIVEWAY WEST: 1,500 FEET
    - NEAREST ADJACENT DRIVEWAY EAST: 175 FEET
    - NEAREST ADJACENT DRIVEWAY WEST: 750 FEET
13. IF A TRAFFIC SIGNAL IS WITHIN 500 FEET OF THE SITE, CALL DISTRICT TRAFFIC ENGINEER AT 814-765-0400 AT LEAST 3 DAYS PRIOR TO THE START OF WORK.
14. THIS PERMIT MAY BE RESTRICTED ON WORKING HOURS AND TIMES FOR HOLIDAYS, WEEKENDS, AND SPECIAL OR UNFORESEEN EVENTS AND WILL REQUIRE APPROVAL FROM THE COUNTY OFFICE PRIOR TO WORKING DURING THESE PERIODS.
15. THE PERMITTEE'S CONTRACTOR SHALL SAWCUT AND REMOVE SHOULDER MATERIAL AS NECESSARY TO ENSURE THE PAVEMENT REPLACEMENT IS ADJACENT TO THE FULL-DEPTH PAVEMENT OF THE TRAVEL LANE.
16. FINAL APPROVAL OF THE PROPOSED SAWCUT LOCATION WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE AND WILL BE CONFIRMED AT THE PRE-CONSTRUCTION MEETING. IF THE SAWCUT MUST BE LOCATED WITHIN A TRAVEL LANE, IT WILL BE NECESSARY TO MILL AND OVERLAY THE TRAVEL LANE TO PREVENT A JOINT IN A WHEEL PATH.
17. THE PROPOSED PAVEMENT SECTION IS AS INDICATED ON THE PLAN, OR OTHERWISE MATCH THE EXISTING AS FOUND IN THE FIELD, WHICHEVER IS GREATER.
18. PRIOR TO AN OVERLAY, BITUMINOUS OR CONCRETE BASE REPAIR OR JOINT REPLACEMENT MAY BE REQUIRED. REPAIR/REPLACEMENT WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE.
19. ALL EXISTING PAVEMENT MARKINGS WHICH ARE NO LONGER APPROPRIATE SHALL BE ERADICATED BY THE PERMITTEE'S CONTRACTOR. THE PERMITTEE'S CONTRACTOR SHALL PLACE ALL REQUIRED NEW PAVEMENT MARKINGS.
20. ALL PAVEMENT MARKINGS OTHER THAN LONGITUDINAL LINES TO BE HOT THERMOPLASTIC (PENNDOT PUBLICATION 111, TC-8600).
21. MATCH EXISTING PAVEMENT MARKINGS AT THE LIMITS OF WORK.
22. MATERIAL CERTIFICATION MUST BE PROVIDED, BY AN APPROVED MANUFACTURER LISTED IN THE DEPARTMENT'S PUBLICATION 35 (BULLETIN 15), FOR ALL MATERIALS AND STRUCTURES WITHIN PENNDOT RIGHT-OF-WAY.
23. THE PERMITTEE'S CONTRACTOR SHALL CONTACT THE COUNTY MAINTENANCE MANAGER AT THE TIME OF GUIDERAIL REMOVAL; ALL EXISTING GUIDERAIL TO BE REMOVED SHALL BE TRANSPORTED TO AND STORED PER THE DIRECTION FROM THE COUNTY MAINTENANCE MANAGER OR HIS REPRESENTATIVE.
24. ALL PROPOSED PEDESTRIAN FACILITIES REFLECTED ON THESE PLANS, INCLUDING THOSE THAT ARE OUTSIDE OF PENNDOT LEGAL RIGHT-OF-WAY, SHALL BE CONSTRUCTED TO COMPLY WITH THE REQUIREMENTS OF THE U.S. ACCESS BOARD, PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) OF THE ACCESSIBILITY GUIDELINES OF BUILDINGS AND FACILITIES (ADAAG). PENNDOT DESIGN MANUAL PART 2, CHAPTER 6, AND PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION (PENNDOT PUBLICATION 72M, RC-67M) PROVIDE GUIDANCE ON ADA ACCESSIBLE DESIGN FOR PEDESTRIAN FACILITIES AND CAN BE UTILIZED FOR REFERENCE.
25. ALL SLOPE MEASUREMENTS WILL BE INSPECTED/VERIFIED WITH A 2-FOOT SMART LEVEL.
26. IT IS THE RESPONSIBILITY OF THE PERMITTEE'S CONTRACTOR TO REMOVE ANY DEBRIS AND FLUSH OUT ALL EXISTING AND NEW STORM DRAINAGE FACILITIES WITHIN THE PROJECT LIMITS AT THE COMPLETION OF THE CONSTRUCTION.
27. MODIFICATIONS TO EXISTING DRAINAGE STRUCTURES MAY RESULT IN THE NEED TO REPLACE THE STRUCTURE. REPLACEMENT WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE.
28. STRUCTURAL STEEL BICYCLE SAFE GRATES MUST BE PROVIDED FOR ALL INLETS WITHIN THE ROADWAY PAVEMENT OF THOSE THAT MAY RECEIVE BICYCLE TRAFFIC (PENNDOT PUBLICATION 72M, RC-45M).
29. THE RESPONSIBILITY FOR ENSURING THAT ALL UTILITY POLES WITHIN THE PROPOSED PAVING ARE RELOCATED OUTSIDE OF PAVED AREAS AND SHOULDERS SHALL BE THAT OF THE PERMITTEE. THE UTILITY POLES MUST BE RELOCATED BEFORE THE START OF ANY PAVING OPERATIONS.
30. THE PERMITTEE IS RESPONSIBLE FOR THE COORDINATION OF RELOCATING ANY CONFLICTING UTILITIES WHICH ARE A RESULT OF THOSE IMPROVEMENTS.
31. ALL UTILITY RELOCATION PERMITS TAKE PRECEDENCE OVER THE UTILITY RELOCATION POSITIONS SHOWN ON THE HOP PLANS.
32. LIST OF PUBLIC UTILITIES: SEE TITLE SHEET.
33. LEGAL RIGHT-OF-WAY:
    - THE LEGAL RIGHT-OF-WAY FOR SR 0550, FORMERLY LEGISLATIVE ROUTE 346, WAS ORIGINALLY ESTABLISHED WITH A 33' WIDTH, OBTAINED FROM PENNDOT STRAIGHT LINE PLAN PAGE NO. 51 PER FORM 989 QUARTER SESSION DOCKET #C, PG 126 NOVEMBER 1798.
    - THE LEGAL RIGHT-OF-WAY FOR SR 0550 IS DEPICTED AT A 50' WIDTH BASED ON SUBDIVISION PLAN ENTITLED "REPLOT PLAN HULL FAMILY FARM" BY MEASE ENGINEERING ASSOCIATES, DATED 1988-03-11 AND RECORDED ON APRIL 14, 1988 IN THE CENTRE COUNTY RECORDER OF DEEDS OFFICE AT BOOK 38 PAGE 111.

HIGHWAY OCCUPANCY PERMIT – MAINTENANCE AND PROTECTION OF TRAFFIC:

1. THIS WORK CONSISTS OF THE MAINTENANCE AND PROTECTION OF TRAFFIC AND THE PROTECTION OF THE PUBLIC WHEN APPROACHING AND DEPARTING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.
2. FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES. MAINTAIN TRAFFIC DURING HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES CONSISTENT WITH THE METHODS INDICATED ON THESE DRAWINGS AND THE FOLLOWING:
   - PENNDOT PUBLICATION 35
   - PENNDOT PUBLICATION 46
   - PENNDOT PUBLICATION 72M
   - PENNDOT PUBLICATION 111
   - PENNDOT PUBLICATION 212
   - PENNDOT PUBLICATION 213
   - PENNDOT PUBLICATION 236
   - PENNDOT PUBLICATION 408
   - MUTCD, CURRENT EDITION
3. REMOVE THESE DEVICES IMMEDIATELY UPON COMPLETION OF THE WORK. PENNDOT WILL REMOVE ANY TRAFFIC CONTROL DEVICES ERECTED BY DEPARTMENT FORCES.
4. PERMITTEE'S CONTRACTOR MUST ARRANGE FOR INSPECTION OF ALL TRAFFIC CONTROL DEVICES PRIOR TO START OF WORK.
5. COVER OR REMOVE ALL CONFLICTING SIGNS AND ERADICATE ALL CONFLICTING PAVEMENT MARKINGS.
6. MOUNT ALL LONG-TERM ADVANCE WARNING SIGNS ON TYPE III BARRICADES UNLESS OTHERWISE NOTED OR INSTRUCTED BY DISTRICT OFFICE.
7. ALL SIGNS AND DEVICES TO BE MAINTAINED IN NEW OR LIKE NEW CONDITION.
8. DRIVEWAYS WILL BE KEPT ACCESSIBLE AT ALL TIMES. LOCATE ALL SIGNS SO THAT SIGHT DISTANCES WILL NOT BE OBSTRUCTED AT DRIVEWAYS AND LOCAL ROADS.
9. ALL CHANNELIZING DEVICES, BARRICADES, AND SIGNS SHALL HAVE TYPE III OR BETTER PRISMATIC RETROREFLECTIVE SHEETING. SHEETING SHALL BE APPROVED AND LISTED IN PENNDOT PUBLICATION 35 (BULLETIN 15).
10. NO TRAFFIC RESTRICTIONS OR LANE CLOSURES ARE PERMITTED BETWEEN 6:00 AM AND 9:00 AM AND BETWEEN 3:00 PM AND 6:00 PM MONDAYS THROUGH FRIDAYS OR ON LEGAL HOLIDAYS AND WEEKENDS ASSOCIATED LEGAL HOLIDAYS. ALL RESTRICTIONS AND CLOSURES ARE TO BE REMOVED BY NOON ON THE DAY PRIOR TO THE LEGAL HOLIDAY.
11. PERMITTEE'S CONTRACTOR SHALL NOTIFY LOCAL EMERGENCY AUTHORITIES (E.G., POLICE, FIRE, MEDICAL), AFFECTED BUSINESSES, SCHOOL DISTRICT(S), THE GENERAL PUBLIC, THE DISTRICT PERMIT MANAGER AND THE DISTRICT APRAS COORDINATOR AT LEAST FOURTEEN DAYS PRIOR TO ANY SIGNIFICANT TRAFFIC IMPACTS (E.G., LATERAL WIDTH RESTRICTIONS LESS THAN 16 FEET, DETOURS).
12. MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE PATA DRAWING 202A IN THE CURRENT PENNDOT PUBLICATION 213, "TEMPORARY TRAFFIC CONTROL GUIDELINES".
13. DROPOFFS CREATED BY CONSTRUCTION OPERATIONS SHALL BE TREATED CONSISTENT WITH PUBLICATION 408, SECTION 901.3(J).
14. REMOVE ALL SHORT-TERM WORK ZONE TRAFFIC CONTROL SIGNING UPON COMPLETION OF THAT DAY'S WORK PERIOD.
15. RESTRICTING TRAFFIC FLOW WITHIN THE WORK AREA SHALL BE MINIMIZED TO PREVENT TRAFFIC CONGESTION AND UNSAFE TRAFFIC CONDITIONS.
16. NOTIFY THE LOCAL MUNICIPALITY WHERE SIGNALIZED INTERSECTIONS FALL WITHIN THE WORK ZONE. DO NOT FLAG A SIGNALIZED INTERSECTION WITHOUT THE MUNICIPALITY PLACING THE SIGNAL ON FLASH.
17. THE PERMITTEE'S CONTRACTOR SHALL COMPLY WITH ACT 229 OF DECEMBER 2002 DURING CONSTRUCTION ACTIVITIES WITHIN PENNDOT'S RIGHT-OF-WAY.

HIGHWAY OCCUPANCY PERMIT – RECORD OF EXISTING TYPES OF ROADWAY PAVEMENT

SR	SEGMENT	LENGTH	FROM	TO
05500280		2,450'	0	2450

- REFER TO BITUMINOUS PAVEMENT SECTION/MATCH STATE HIGHWAY ROW DETAIL FOR DEPICTION OF EXISTING TYPES OF ROADWAY PAVEMENT AT PROPOSED DRIVEWAY INTERSECT.

THE DEPTHS OF MATERIAL ARE SHOWN FOR DESIGN PURPOSES ONLY. ANY RISK OF UNANTICIPATED COSTS ASSOCIATED WITH DIFFERENCES BETWEEN THE LISTED DEPTHS AND THE ACTUAL DEPTHS SHALL BE ACCEPTED BY THE CONTRACTOR.

LEGEND

SLANT/GRAY STRAIGHT/DARK	EXISTING FEATURE / PROPOSED FEATURE
	BUILDING SETBACK LINE
1161	CONTOUR
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	EASEMENT
	EDGE OF PAVEMENT
S	SANITARY SEWER
	STORM SEWER
G	NATURAL GAS
W	WATER
TEC	TELEPHONE, ELECTRIC & CABLE
	PROPERTY CORNER
	UTILITY POLE
	POLE MOUNTED LIGHT
	STORMWATER INLET

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DATE	REVISION DESCRIPTION

FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

INDEX

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

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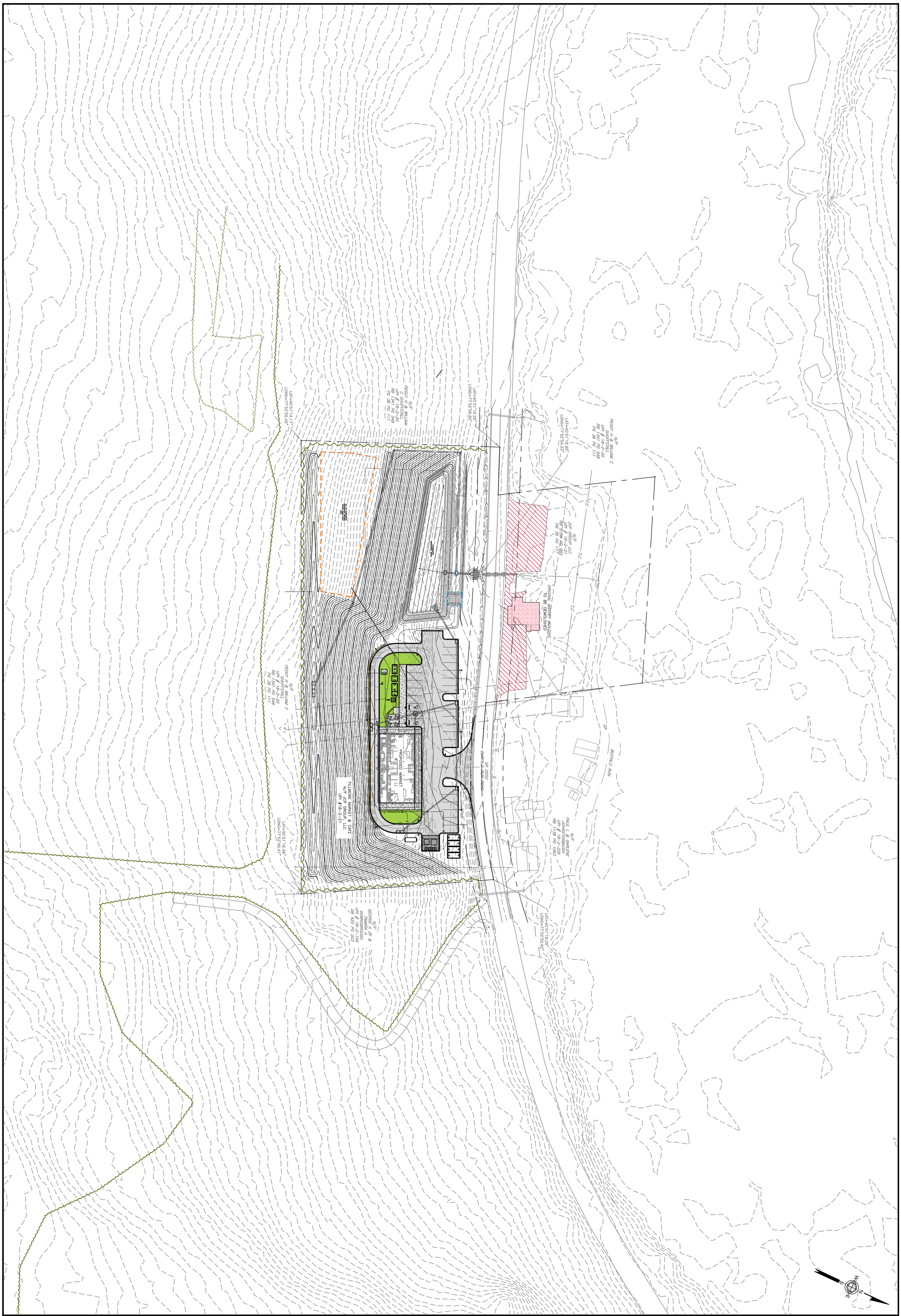
02



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FILE NAME:			
DATE:	2025-01-03		
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03		DATE & INITIALS / REVISION DESCRIPTION	SCALE: 1"=50' (50' 0' 50')

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

DEMO PLAN

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

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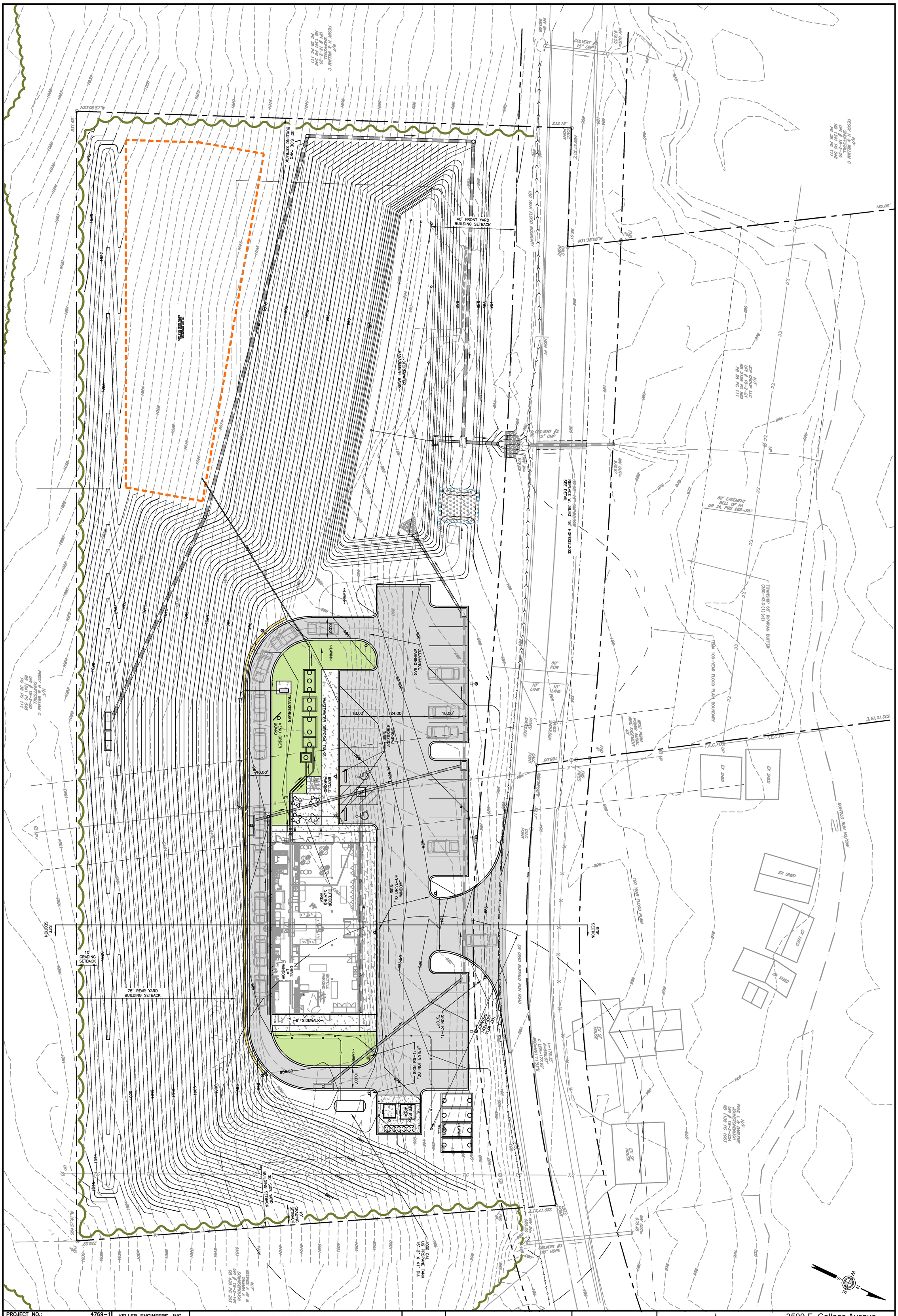

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

SITE PLAN

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

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FEMA 100-YEAR FLOODPLAIN BOUNDARY

EX CULVERT #1
15" CMP
INV IN EL=980.98
INV OUT EL=979.55
SLOPE=4.33%

CALC POINT

982.57

982.51

982.31

982.14

982.45

982.26

981.72

982.38

982.17

981.79

982.40

982.29

981.85

982.65

TOWNSHIP 65' RIPARIAN BUFFER

SR 0550 BUFFALO RUN ROAD

FLOOD PLAIN

FEMA 100-YEAR FLOODPLAIN BOUNDARY

LIMIT OF WORK
PROPOSED CULVERT REPLACEMENT
SEGMENT 280 OFFSET 453

EX CULVERT #2
15" CMP
REPLACE W/ 18" HDPE@2.30%
39.93'
INV IN EL=979.69
INV OUT EL=978.83

76.68' 18" HDPE@26.76%

INLET #10
18" DRAIN BASIN
SOLID COVER
TOP EL=1010.00
INV IN EL=1005.37
INV OUT EL=1005.27

INFILTRATION TEST PIT #1
EX GRADE EL=983.67
EL 982.17=BASIN BOTTOM
EL 979.67=BASIN SUBGRADE

INLET #9
18" DRAIN BASIN
SOLID COVER
TOP EL=988.00
INV IN EL=984.75
INV OUT EL=984.65

CO: G=982.17
INV EL=980.79

CO: G=982.17
INV EL=980.77

CO: G=982.17
INV EL=980.75

CO: G=982.17
INV EL=980.57

100.74' 4" PERF HDPE@0.50%

INFILTRATION TEST PIT #2
EX GRADE EL=992.40
EL 982.17=BASIN BOTTOM
EL 979.67=BASIN SUBGRADE

138.82' 18" HDPE@3.27%

OUTLET STRUCTURE
TYPE M TOP UNIT
STANDARD BOX
TOP EL=984.50
INV IN EL=980.15 (6" UNDERDRAIN)
INV OUT EL=980.15

CO: G=982.17
INV EL=980.37

36.15' 4" PERF HDPE@0.50%

INLET #8
TYPE M TOP UNIT
STANDARD BOX
TOP EL=986.00
INV IN EL=980.11
INV OUT EL=980.11

CROSS
INV EL=980.29

CO: G=982.17
INV EL=980.30

CROSS
INV EL=980.27

29.78' 4" PERF HDPE@0.50%

CROSS
INV EL=980.25

CROSS
INV EL=980.21

CROSS
INV EL=980.19

TEE
INV=980.17

10.86' 12" HDPE@0.37%

15.69' 18" HDPE@0.38%
INV OUT=980.05

INLET #7
18" PIPE END SECTION
INV OUT EL=980.03
W. ROCK APRON
OUTLET PROTECTION
INLET WIDTH=29"
OUTLET WIDTH=6.0'
LENGTH=9.0'
ROCK=R-3

R-3 ROCK LINING
PIPE OUTLET PROTECTION
TO LIMITS & EXTENTS SHOWN

FLOW LINE
8.03'@0.37%

EMERGENCY SPILLWAY
R-3 ROCK LINING
CHANNEL SIZES TO LIMITS
SHOWN.
SEE DETAIL.

AVAILABLE SIGHT DIST LEFT: 1,007'

EX SHOULDER
1.0'@1.00%

51.23' 4" PERF HDPE@0.50%

49.82' 4" PERF HDPE@0.50%

48.42' 4" PERF HDPE@0.50%

47.01' 4" PERF HDPE@0.50%

45.61' 4" PERF HDPE@0.50%

45.25' 4" PERF HDPE@0.50%

CO: G=982.17
INV EL=980.40

CO: G=982.17
INV EL=980.42

CO: G=982.17
INV EL=980.45

CO: G=982.17
INV EL=980.49

CO: G=982.17
INV EL=980.52

CO: G=982.17
INV EL=980.55

184.75' 18" HDPE@0.50%

214.27' 4" SOLID HDPE FOUNDATION UNDERDRAIN AT 1.57%

4" SOLID HDPE FOUNDATION UNDERDRAIN

OLD WELL

INFILTRATION TEST PIT #3
EX GRADE EL=994.50
EL 992.17=BASIN BOTTOM
EL 979.67=BASIN SUBGRADE

CROSSING FOUNDATION UNDERDRAIN AT 12" HDPE
12" HDPE INV EL=982.25
4" UNDERDRAIN INV EL=981.14
4" UNDERDRAIN TOP EL=981.47
CROSS 4" UNDERDRAIN BELOW 12" HDPE

12" HDPE END SECTION
INV OUT EL=982.17
W. ROCK APRON
OUTLET PROTECTION
INLET WIDTH=29"
OUTLET WIDTH=6.0'
LENGTH=9.0'
ROCK=R-3

40.61' 12" HDPE@0.42%

CLEARANCE WARNING BAR

BEGIN RETAINING WALL
BW987.02
EXP HT=0'

TW987.00
EXP HT=0'

BW999.00
EXP HT=18'

BW987.52
EXP HT=18'

TC986.72
BC986.22
77.68'@2.34%
TC986.42
30.56'@2.36%
TC986.83
26.67'@2.36%
TC986.92
13.74'@1.31%
18.67'@2.00%

TC985.90
BC986.40
R=6.00'
14.71'@
0.68%

TC985.42
BC984.92
R=6.00'
10.00
2.00%

24.00'@
2.00%

TC985.22
BC984.72
R=6.00'
18.00'@
1.00%

TC984.76
24.00'@
3.08%

TC986.00
BC985.50
10.00'@
2.00%

TC986.20
BC985.70
10.00'@
2.00%

INLET #1
TYPE M TOP UNIT
STANDARD BOX
TOP UP. EL=984.59
TOP LOW EL=984.54
INV IN EL=982.34
INV OUT EL=982.34

TC985.04
BC984.54
R=6.00'

15.08'@
2.00%

10.00'@
2.00%

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

GRADING PLAN

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

DATE & INITIALS	REVISION DESCRIPTION

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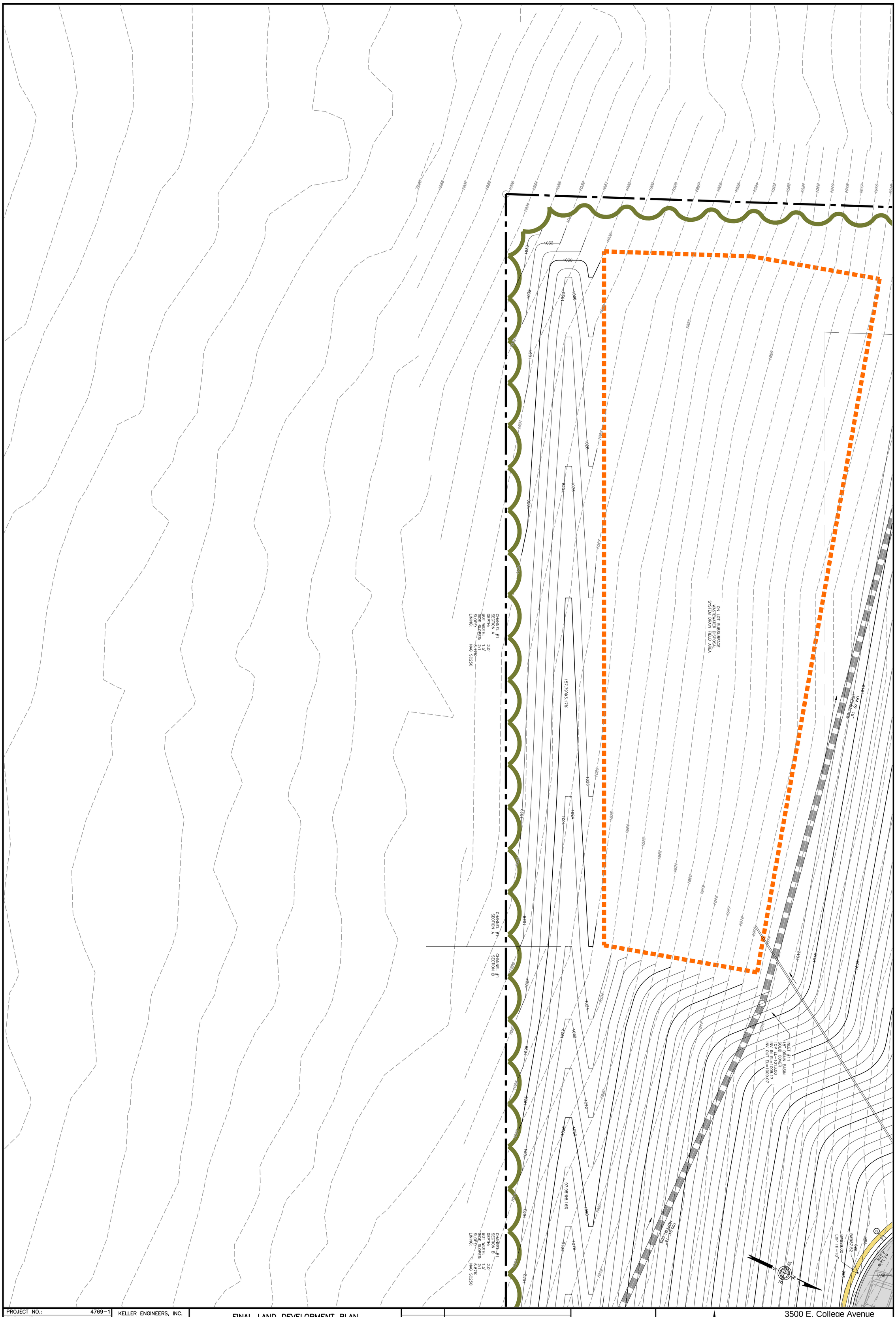

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FILLMORE MARKET & CAFE

GRADING PLAN

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

GRADING PLAN

PATTON TOWNSHIP, CENTRE COUNTY
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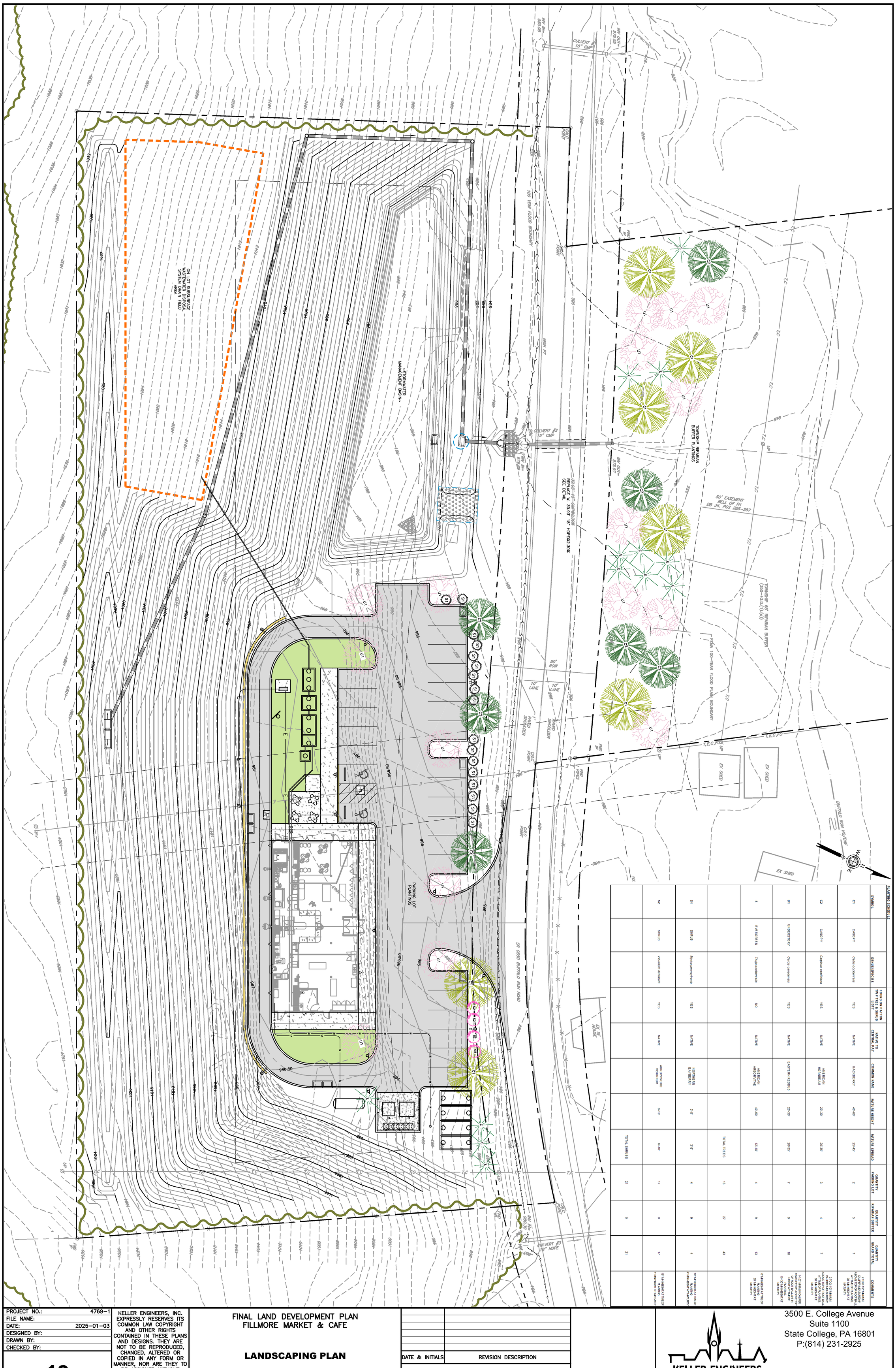

PLANTING SCHEDULE

SYMBOL		GENUS SPECIES	FOUND ON PATTON TWP TREE & SHRUB LIST?	NATIVE TO CENTRAL PA?	COMMON NAME	MATURE HEIGHT	MATURE SPREAD	QUANTITY PARKING LOT	QUANTITY RIPARIAN BUFFER	QUANTITY GRAND TOTAL	COMMENTS
C1	CANOPY	Celtis occidentalis	YES	NATIVE	HACKBERRY	40'-60'	25'-45'	2	5	7	2"DIA.-12" MINIMUM CALIPER MEASURED 6" ABOVE TOP OF ROOT BALL AT TIME OF PLANTING 30' MIN HEIGHT AT MATURITY
C2	CANOPY	Cephalus canadiensis	YES	NATIVE	AMERICAN HORNBEAM	20'-30'	20'-35'	3	4	7	2"DIA.-12" MINIMUM CALIPER MEASURED 6" ABOVE TOP OF ROOT BALL AT TIME OF PLANTING 30' MIN HEIGHT AT MATURITY
U1	UNDERSTORY	Cercis canadensis	YES	NATIVE	EASTERN REDBUD	20'-30'	20'-35'	7	9	16	1-1/2" MINIMUM CALIPER MEASURED 6" ABOVE TOP OF ROOT BALL AT TIME OF PLANTING 15'-30' MIN HEIGHT AT MATURITY
E	EVERGREEN	Thuja occidentalis	NO	NATIVE	AMERICAN ARBORVITAE	40'-60'	12'-18'	4	9	13	6' MIN HEIGHT AT TIME OF PLANTING 20' MIN HEIGHT AT MATURITY
S1	SHRUB	Myrica pennsylvanica	YES	NATIVE	NORTHERN BAYBERRY	3'-8'	3'-6'	4	0	4	18" MIN HEIGHT AT TIME OF PLANTING 4' MIN HEIGHT AT MATURITY
							TOTAL TREES	16	27	43	
S2	SHRUB	Viburnum dentatum	YES	NATIVE	ARROWWOOD VIBURNUM	6'-10'		17	0	17	18" MIN HEIGHT AT TIME OF PLANTING 4' MIN HEIGHT AT MATURITY
							TOTAL SHRUBS	21	0	21	

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

LANDSCAPING PLAN

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

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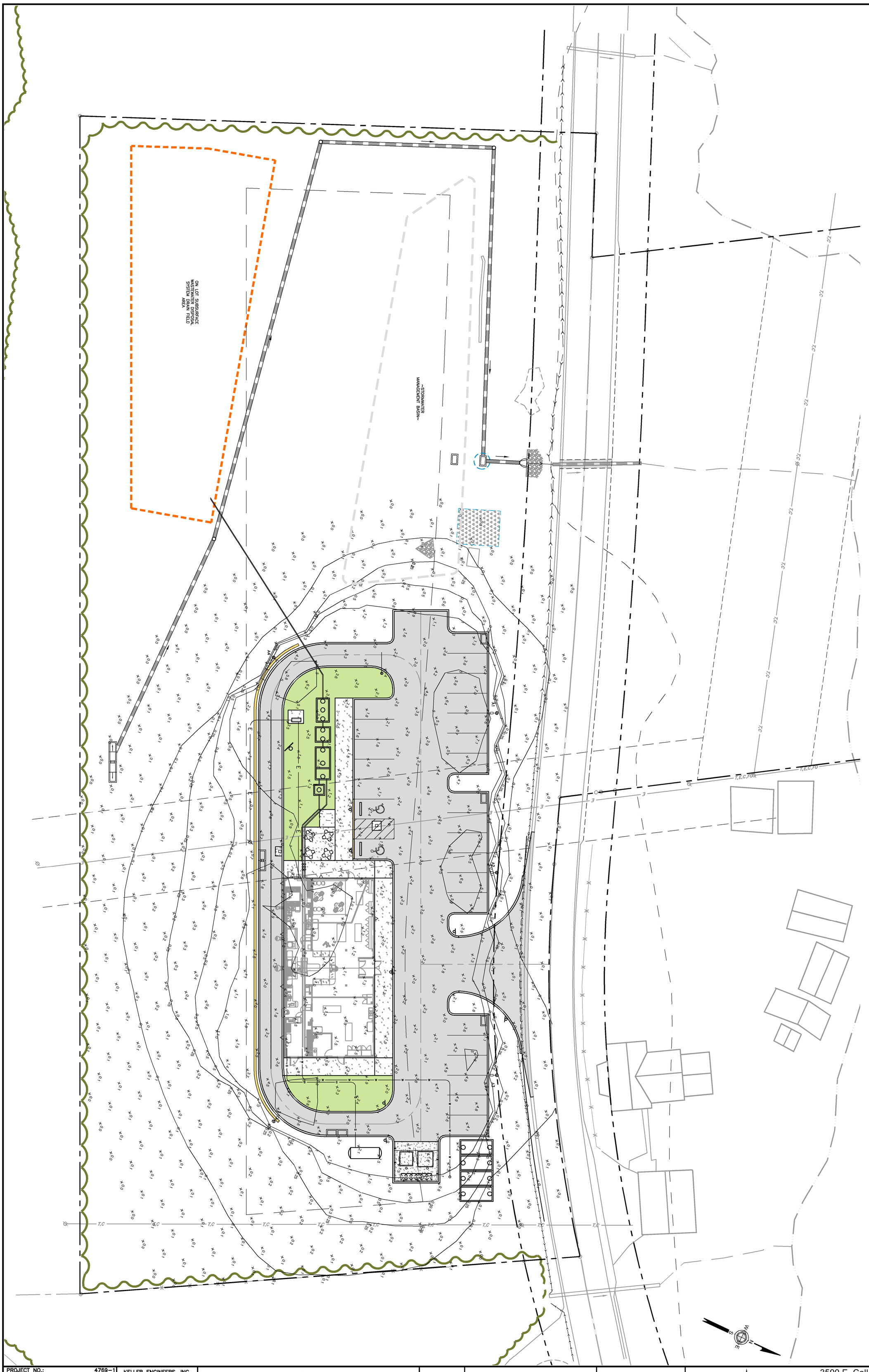

OUTDOOR LIGHTING FIXTURE SCHEDULE

LABEL	SYMBOL	CODE	LOCATION	CONFIGURATION	QTY	DESCRIPTION	MANUFACTURER	FIXTURE CATALOG #	FINISH	FEATURES	HEIGHT	BASE HEIGHT
A1 - A5		A	SITE	SINGLE: POLE	5	170W LED	LITHONIA LIGHTING	D-SERIES SIZE 0 LED	BLACK	MEETS IES CUTOFF CRITERIA	15'-2"	2"
B1 - B8		B	BUILDING	SINGLE: WALL MOUNT	8	13W LED	LITHONIA LIGHTING	WPX0 LED	BLACK	MEETS IES CUTOFF CRITERIA	8'	N/A

LABEL	MOUNT DESCRIPTION	MOUNT CATALOG #	ANGLE	BULB DESCRIPTION	BULB CATALOG #	POLE DESCRIPTION	POLE MANUFACTURER	POLE FINISH	POLE CATALOG #	SHAFT	TENON/TOP	HEIGHT	IES FILE	LUMENS	LLF	TOTAL WATTS	LUMINAIRE HEIGHT	TOTAL ASSEMBLY HEIGHT
A1 - A5	POLE MOUNT	N/A	90°	40 LEDS	N/A	SQUARE STRAIGHT	LITHONIA LIGHTING	Black	SSS 15 4C	4" Straight	4"	15'	DSX0_LED_P7_40K_80CRI_BLC4.ies	Absolute	1.00	170	15'	15'-2"
B1 - B8	WALL MOUNT	N/A	90°	10 LEDS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	WPX0_LED_ALO-4_40K_MVOLT.ies	Absolute	1.00	12.5	8'	8'

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

OUTDOOR LIGHTING PLAN

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

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EROSION CONTROL PLAN LEGEND

SOILS LINE

SOIL TYPE ABBREVIATION

LIMIT OF DISTURBANCE

CFS

COMPOST FILTER SOCK

ROCK CONSTRUCTION ENTRANCE

COMPOST FILTER SOCK INLET PROTECTION CULVERT

INLET PROTECTION

LIMIT OF DISTURBANCE=3.05 AC

12" COMPOST FILTER SOCK TYP

4.25' V OVER 70 LF H=
AVG SLOPE LENGTH 6.07%
USE 12" CFS W. MAX SLOPE
LENGTH OF 170'

COMPOST FILTER SOCK INLET PROTECTION CULVERTS

32" COMPOST FILTER SOCK TYP

EXISTING WOOD LOT COVER

~STORMWATER MANAGEMENT BASIN~

43' V OVER 174 LF H=
AVG SLOPE LENGTH 25%
USE 32" CFS W. MAX SLOPE
LENGTH OF 190'

EL 984.00

ON LOT SUBSURFACE WASTEWATER DISPOSAL SYSTEM AREA

EL 1027.00

UPLAND CLEAN WATER DIVERSION CHANNEL

TBM NAIL IN POLE
ELEV=983.10

TOPSOIL STOCKPILE AREA

EXISTING WOOD LOT COVER

LIMIT OF DISTURBANCE

12" COMPOST FILTER SOCK TYP

RCE WITH WASH RACK

WASH RACK SUMP/PUMP

32" COMPOST FILTER SOCK TYP

REC WASH RACK PUMP WATER FILTER BAG LOCATION

EL 987.00

37' V OVER 171 LF H=
AVG SLOPE LENGTH 22%
USE 32" CFS W. MAX SLOPE
LENGTH OF 190'

EL 1024.00

COMPOST FILTER SOCK INLET PROTECTION CULVERTS

PROJECT NO.:	4769-1
FILE NAME:	
DATE:	2025-01-03
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12

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

E&SPC PLAN - PREDEVELOPMENT

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

DATE & INITIALS	REVISION DESCRIPTION

SCALE: 1"=20'

20' 0' 20'

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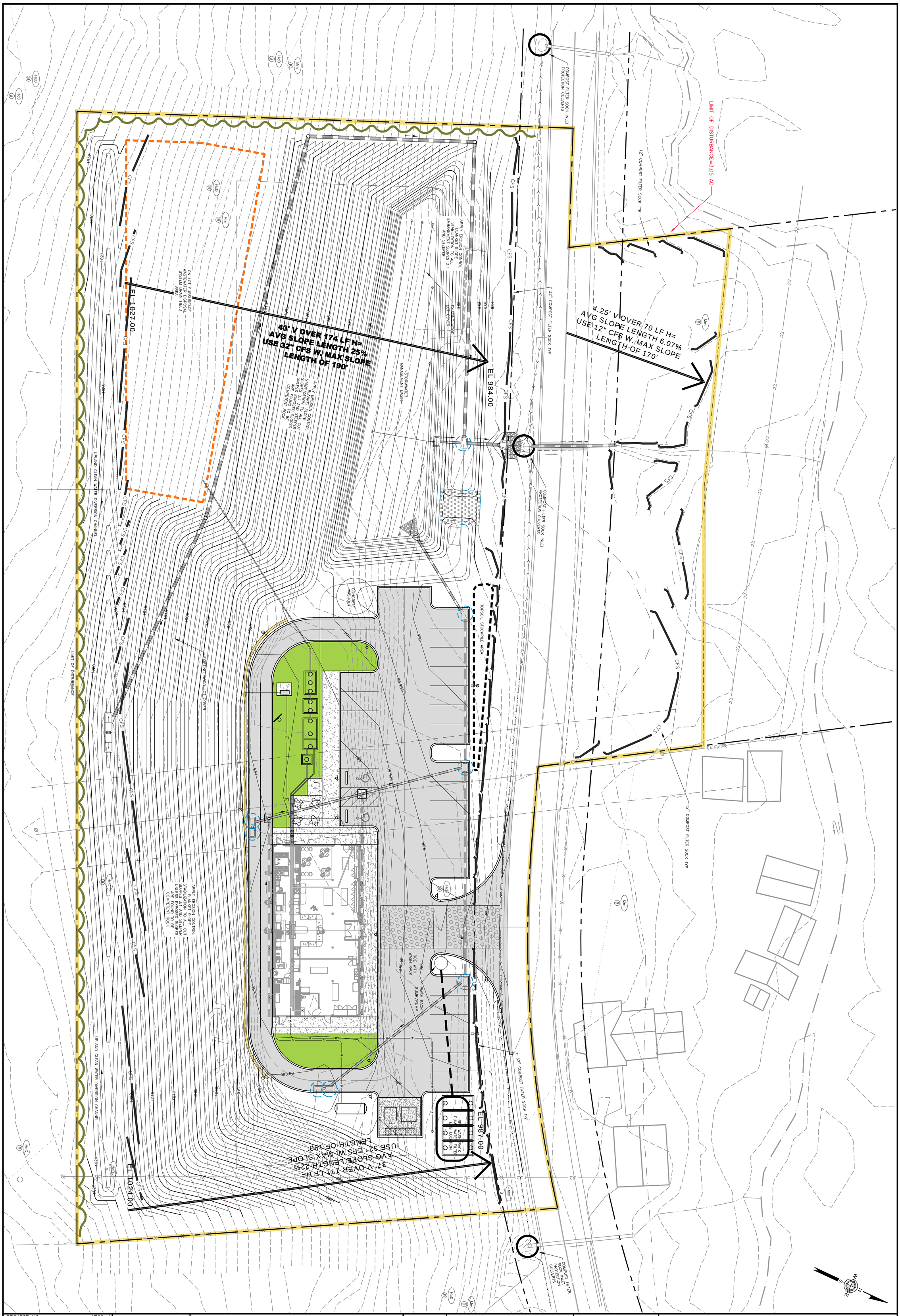

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

E&SPC PLAN - POST DEVELOPMENT

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

DATE & INITIALS	REVISION DESCRIPTION

SCALE: 1"=20'

20' 0' 20'

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

VEHICLE ROUTING PLAN
REFUSE TRUCK

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

DATE & INITIALS	REVISION DESCRIPTION

SCALE: 1"=20'

20' 0' 20'

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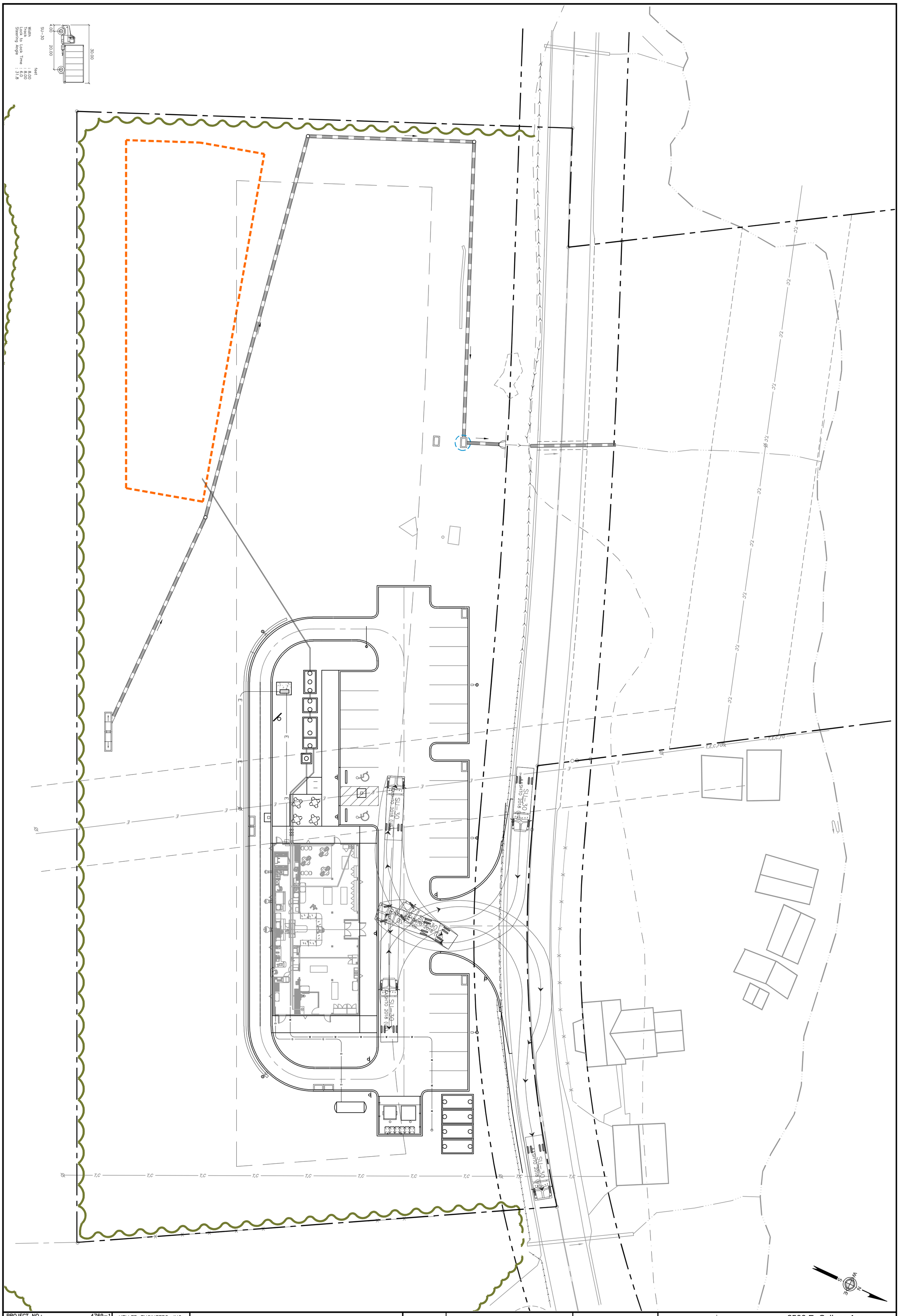

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

VEHICLE ROUTING PLAN
DELIVERY TRUCK

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

DATE & INITIALS	REVISION DESCRIPTION

SCALE: 1"=20'

20' 0' 20'

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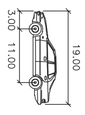
P

	feet
Width	: 7.00
Track	: 6.00
Lock to Lock Time	: 6.0
Steering Angle	: 31.6



N23°05'57"W
531.65'
233.15'
N66°52'33"E
56.01'
N31°38'08"W
185.00'
T.C
E
W
G
S32°15'19"E
185.00'
N69°32'00"E
S64°57'47"W
226.29'
S29°17'23"E
L=178.35'
R=566.67'
CH=177.63'
BRG=N16°11'53"E

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

VEHICLE ROUTING PLAN
PASSENGER CAR

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

DATE & INITIALS	REVISION DESCRIPTION

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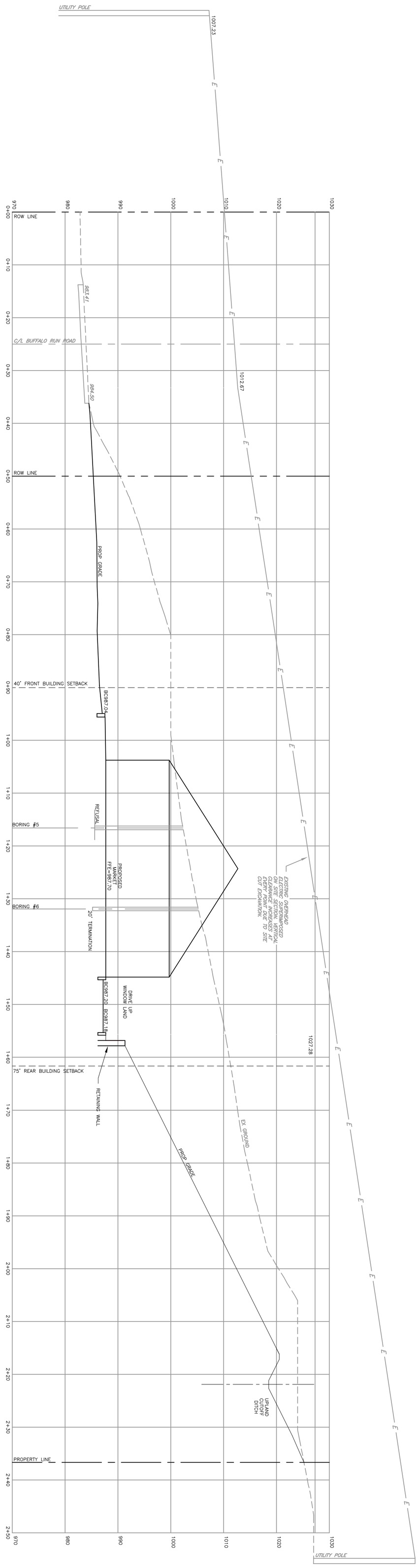

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

SITE SECTION

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

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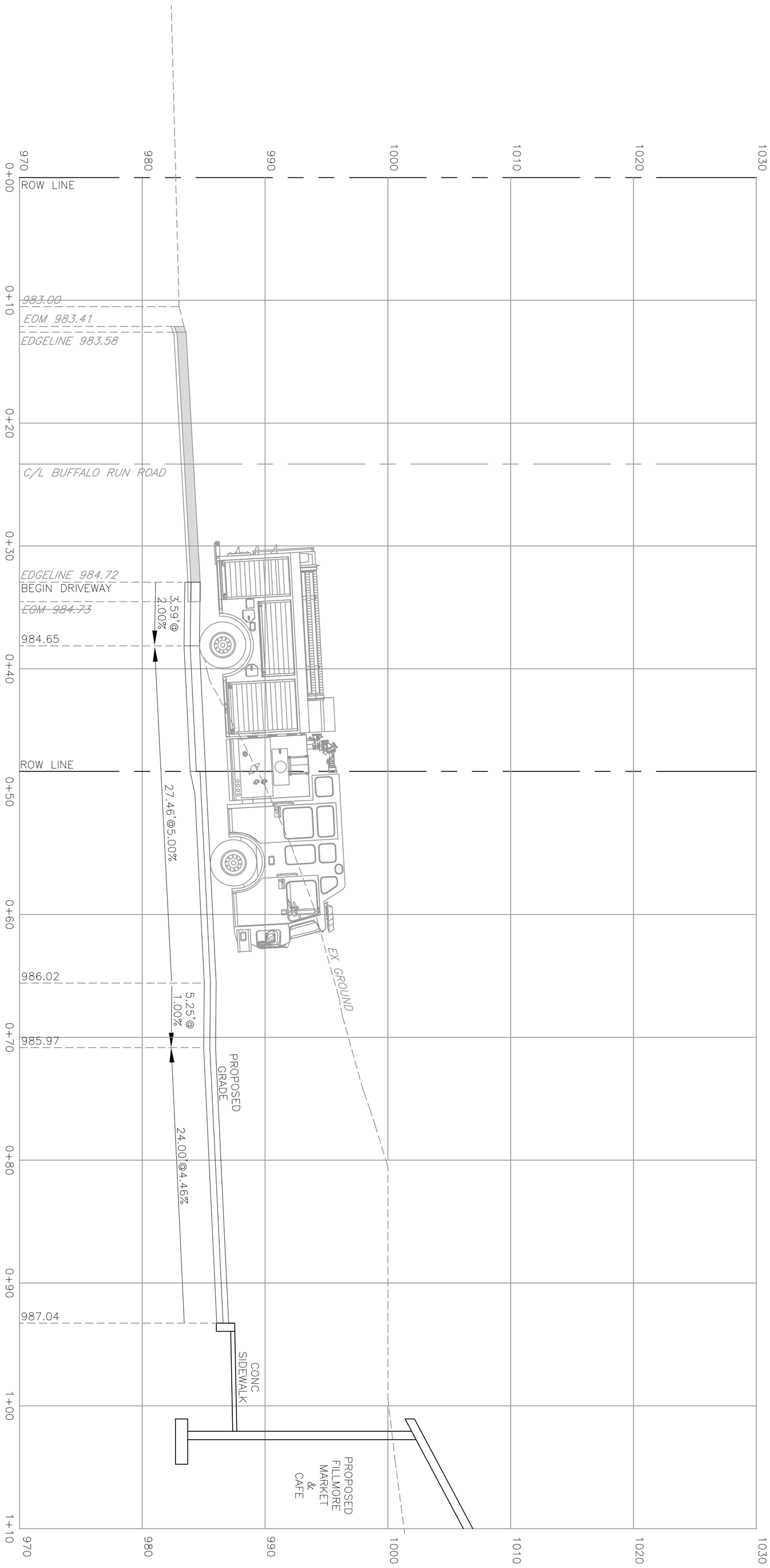

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

DRIVEWAY PROFILE

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

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CURBING:

THE FOLLOWING DETAILS ARE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF PENNDOT ROADWAY CONSTRUCTION (RC) STANDARDS

1. 8" REVEAL CURBING WITHIN STATE HIGHWAY ROW. CURBS AND GUTTERS (RC-64M)

BITUMINOUS PAVEMENT SECTION/MATCH STATE HIGHWAY ROW

NOTES:
1. SAWCUT ALL JOINTS VERTICAL AND NEAT.
2. PLACE TACK COAT ON EXISTING SAWCUT BITUMINOUS SURFACES
3. APPLY SEALER MATERIAL ALONG JOINT BETWEEN EXISTING AND NEW BITUMINOUS WEARING SURFACES.

1976 SURFACE TREATMENT SEAL COAT 3" WIDTH
1978 BITUMINOUS WEARING COURSE ID-2 SCRATCH 1.5" DEPTH, 20' WIDTH
1987 LEVEL BITUMINOUS WEARING COURSE ID-2 SCRATCH 1.0" DEPTH, 20' WIDTH
2005 BITUMINOUS WEARING COURSE ID-2 SCRATCH 0.5" DEPTH, 20' WIDTH
2005 BITUMINOUS WEARING COURSE ID-2 1.0" DEPTH, 20' WIDTH
2011 SURFACE TREATMENT SEAL COAT
2017 SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE SCRATCH PG 64-22, 9.5 MM MIX 0.5" DEPTH, 20' WIDTH
2017 SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE PG 64-22, 9.5 MM MIX SRL-H, 1.5" DEPTH, 20' WIDTH
SR 0550-BUFFALO RUN ROAD
1959 BITUMINOUS WEARING COURSE CP-2 2.0" DEPTH, 16' WIDTH
1924 BITUMINOUS WEARING COURSE ID-2 1.0" DEPTH, 16' WIDTH
1924 CRUSHED STONE SUBBASE 3.0" DEPTH, 16' WIDTH
1976 BITUMINOUS CONCRETE BASE COURSE 3.0" DEPTH, 2' WIDTH
MILL EXISTING WEARING COURSE FOR PAVEMENT NOTCH INTERFACE 2" DEPTH
SUPERPAVE ASPHALT MIX DESIGN WEARING COURSE, PG 64-22, 0.3 TO < 3 MILLION ESAL'S, 9.5MM MIX, SRL-H, 2" DEPTH
SUPERPAVE ASPHALT MIX DESIGN BASE COURSE, PG 64-22, 0.3 TO < 3 MILLION ESAL'S, 25.0MM MIX, 7" DEPTH
SUBBASE 6" DEPTH (NO. 2A)
SEE PRIVATE SITE BITUMINOUS PAVEMENT SECTION
6.00% MAX
2.00%
12" MIN
SR 0550 SHOULDER
EDGE LINE
PROPOSED DRIVEWAY
LEGAL ROW

BITUMINOUS PAVEMENT SECTION PRIVATE SITE

SLOPE PER GRADING PLAN
SUBBASE COURSE 2A COARSE AGGREGATE SUBBASE, 6" DEPTH.
SUPERPAVE ASPHALT MIX DESIGN HMA BASE COURSE, PG 64-22, <0.3 MILLION ESAL'S, 25MM MIX, 4" DEPTH.
SUPERPAVE ASPHALT MIX DESIGN HMA WEARING COURSE, PG 64-22, <0.3 MILLION ESAL'S, 9.5MM MIX, 1.5" DEPTH, SRL-L

CURB TAPER

FULL REVEAL
CURB TAPER
2"

CONCRETE CURB JOINTS

PLAN
CONTRACTION JOINT
A
20' MAX
SECTION A-A CONTRACTION JOINT
2" DEEP, 3/16" WIDE

CONCRETE CURB VERTICAL FACE 6"–12" REVEAL FULL DEPTH

NOTE:
1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PENNDOT PUBLICATION 408, SECTION 630 FOR PLAIN CEMENT CONCRETE CURB AND DEPRESSED CURB.
2. PROVIDE LATERAL CONTRACTION JOINTS AT 4' MIN, 10' MAX SPACING UNLESS OTHERWISE NOTED.
3. PROVIDE ½" EXPANSION JOINT MATERIAL CUT TO CONFORM TO THE CROSS-SECTIONAL AREA WITH SEALANT ALONG CURB/BUILDING WALL INTERFACE. AT INTERFACE WITH EXISTING CURBS, AT COLD JOINTS. AND AT OTHER LOCATIONS WHERE INDICATED ON PLAN.
4. IF MEARING COURSE MILL NOT BE PLACED WITHIN 30 DAYS, SEAL ALONG THE CURB AND ROAD SURFACE WITH AC-20.

2A COARSE AGGREGATE SUBBASE
4" CONC SIDEWALK
8"
7"
24"
6"–12" REVEAL
GRADE
R=3/4"

CONCRETE CURB VERTICAL FACE – 6" REVEAL FULL DEPTH DEPRESSED

NOTE:
1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PENNDOT PUBLICATION 408, SECTION 630 FOR PLAIN CEMENT CONCRETE CURB AND DEPRESSED CURB.
2. PROVIDE LATERAL CONTRACTION JOINTS AT 4' MIN, 10' MAX SPACING UNLESS OTHERWISE NOTED.
3. PROVIDE ½" EXPANSION JOINT MATERIAL CUT TO CONFORM TO THE CROSS-SECTIONAL AREA WITH SEALANT ALONG CURB/BUILDING WALL INTERFACE. AT INTERFACE WITH EXISTING CURBS, AT COLD JOINTS. AND AT OTHER LOCATIONS WHERE INDICATED ON PLAN.
4. IF WEARING COURSE MILL NOT BE PLACED WITHIN 30 DAYS, SEAL ALONG THE CURB AND ROAD SURFACE WITH AC-20.

2A COARSE AGGREGATE SUBBASE
CURB:
• CAST-IN-PLACE CLASS A CONC. – 3,000 PSI
• SLIP-FORM CLASS AA CONC. – 6,000 PSI
4"
12 1/2"
10"
BCBC
WEARING
8"
R=3/4"
DRIVEWAY
R=1/4"
12"
2 1/2" REVEAL

CONCRETE CURB VERTICAL FACE – 6" REVEAL BCBC SUPPORTED

NOTE:
1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PENNDOT PUBLICATION 408, SECTION 630 FOR PLAIN CEMENT CONCRETE CURB AND DEPRESSED CURB.
2. PROVIDE LATERAL CONTRACTION JOINTS AT 4' MIN, 10' MAX SPACING UNLESS OTHERWISE NOTED.
3. PROVIDE ½" EXPANSION JOINT MATERIAL CUT TO CONFORM TO THE CROSS-SECTIONAL AREA WITH SEALANT ALONG CURB/BUILDING WALL INTERFACE. AT INTERFACE WITH EXISTING CURBS, AT COLD JOINTS. AND AT OTHER LOCATIONS WHERE INDICATED ON PLAN.
4. IF WEARING COURSE MILL NOT BE PLACED WITHIN 30 DAYS, SEAL ALONG THE CURB AND ROAD SURFACE WITH AC-20.

2A COARSE AGGREGATE SUBBASE
WEARING COURSE
BCBC
8"
4"
7 1/2"
6" REVEAL
CURB:
• CAST-IN-PLACE CLASS A CONC. – 3,000 PSI
• SLIP-FORM CLASS AA CONC. – 6,000 PSI
R=3/4"
7"
R=1/4"
GRADE

CONCRETE WHEEL STOP

ELEVATION
6"
8"
1.5"
#6 WIRE
FINISH GRADE
PLAN
4"
9"
1" DIA TAPERED HOLES WITH IRON PINS
END SECTION
1.5"
9"
WHEEL STOP: CLASS AA CONC.-5,750 PSI
FINISH GRADE
#6 WIRE
#5 WIRE 8" ON CENTER
4.5"
1" X 1" CHAMFER
1" DIA TAPERED HOLE WITH IRON PIN 1'-3" SETTING
WHEEL STOP
TYPICAL PARKING STALL
9'
30"

PROJECT NO.: 4769-T
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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

DETAILS - SITE

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

REVISION DESCRIPTION	DATE & INITIALS

KELLER ENGINEERS
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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

DETAILS - SITE

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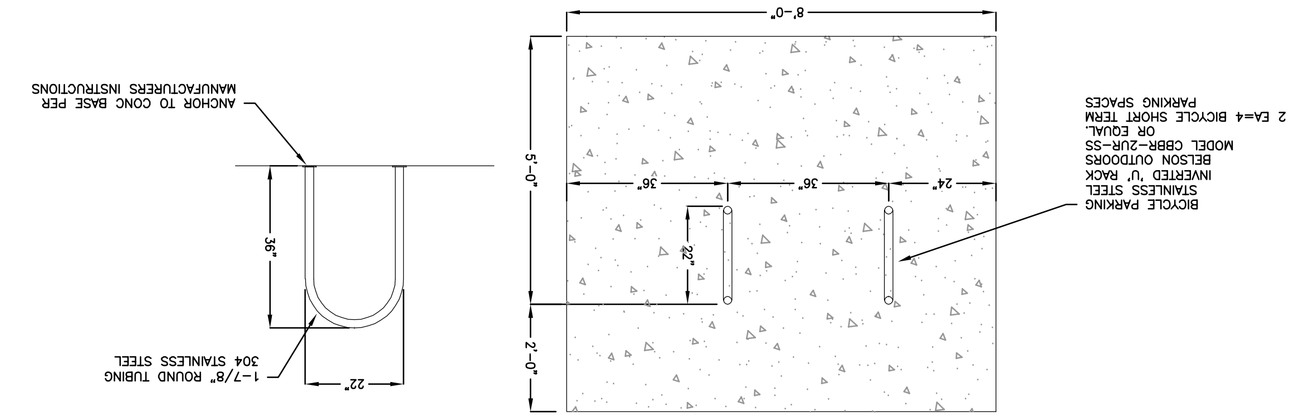
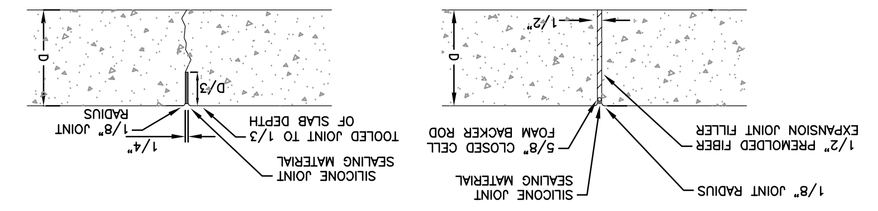
BICYCLE PARKING AREA
SHORT TERM



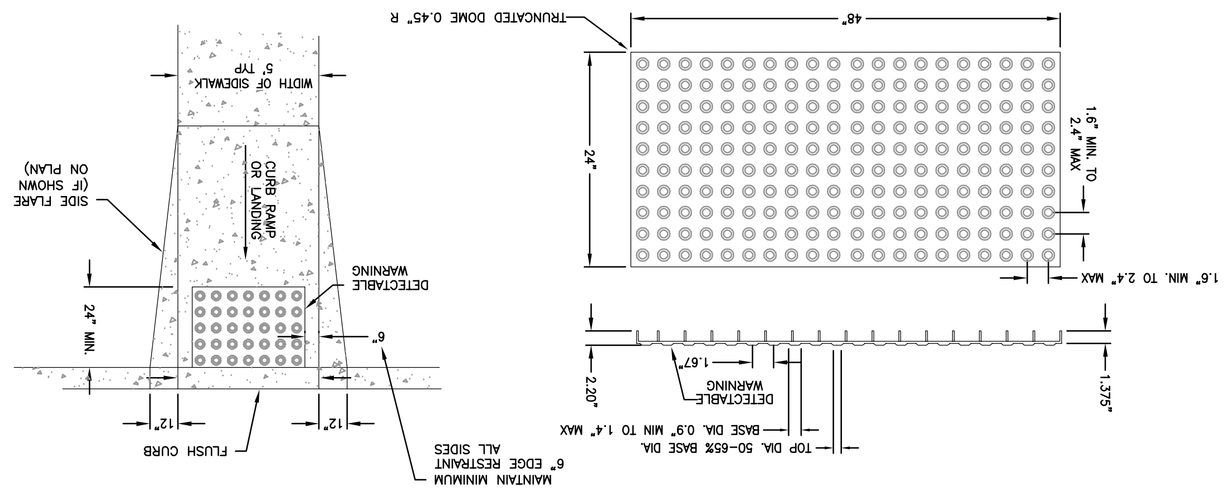
CONCRETE SIDEWALK – JOINTS

NOTE:
1. MATCH JOINT SEALING MATERIAL TO COLOR OF ADJOINING CONCRETE SURFACE, OR AS APPROVED BY THE OWNER.
2. MAKE THE TOP OF THE JOINT SEALING MATERIAL NOT LESS THAN 1/16" OR MORE THAN 3/16" BELOW THE CONCRETE SURFACE.



DETECTABLE WARNING
CAST IN PLACE POLYMER COMPOSITE
(USE UNLESS OTHERWISE NOTED ON PLAN)

ADA DETECTABLE WARNING:
1. MATERIAL: CAST-IN-PLACE POLYMER COMPOSITE, MATTE FINISH EXTERIOR GRADE HOMOGENEOUS GLASS AND CARBON REINFORCED POLYESTER BASED SHEET MOLDING COMPOUND COMPOSITE MATERIAL.
2. COLOR CONTRAST: MIN. 70% LIGHT REFLECTANCE BETWEEN DETECTABLE WARNING AND ADJOINING SURFACE.
3. BASE-TO-BASE SPACING: 0.65" MIN. AS MEASURED BETWEEN THE MOST ADJACENT DOMES ON SQUARE GRID.
4. COLOR: BRICK RED (CONFIRM COLOR SELECTION WITH OWNER PRIOR TO ORDERING)
5. MANUFACTURER: ADA SOLUTIONS, INC. OR APPROVED EQUAL.



POLE-MOUNTED SITE LIGHT FOUNDATION

HEIGHT FROM FINISHED GRADE TO TOP OF LIGHT FIXTURE	MINIMUM DIAMETER OF PIER	MINIMUM DEPTH OF PIER BELOW GRADE	PIER REINFORCEMENT VERTICALLY
12' OR LESS	14"	4'-0"	4 #4
14'	14"	4'-0"	4 #4
16'	16"	4'-6"	4 #5
18'	16"	4'-6"	4 #5
20'	16"	5'-0"	4 #5
22'	18"	5'-0"	4 #6
24'	18"	5'-6"	4 #6
25'	18"	5'-6"	4 #6

HARDWARE CLASSIFICATION

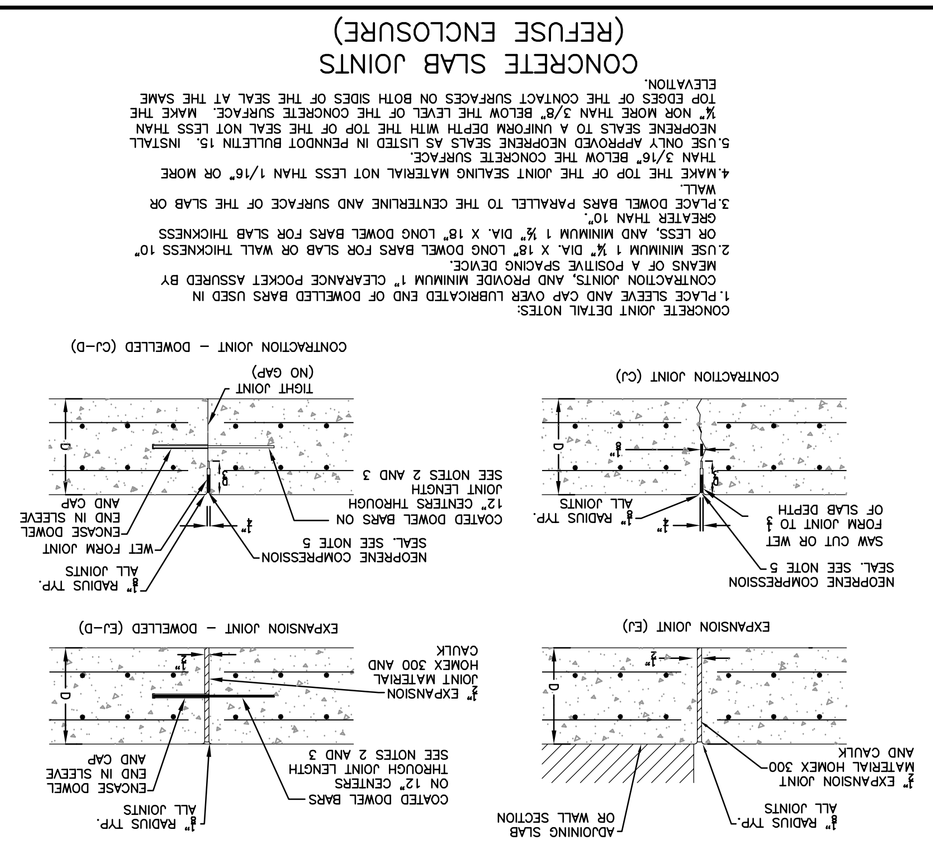
BOLT SIZE	BOLT GRADE	NUTS	WASHERS	GALVANIZING
1" X VARIOUS FULL LENGTH GALVANIZED	ASTM F-1554 GRADE 105 CLASS 2A	ASTM A-563-DH CLASS 2B	ASTM F-436	ASTM A-153 CLASS C

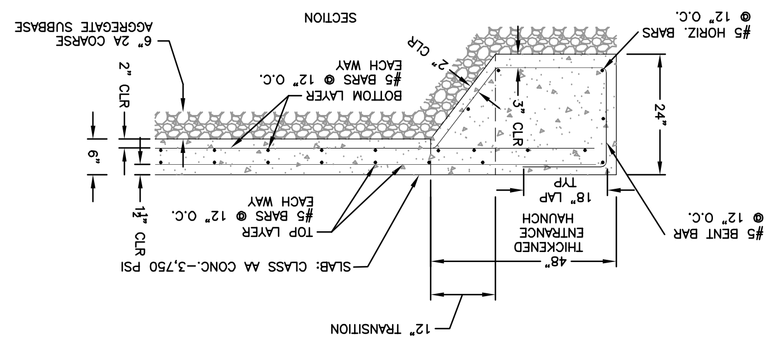
POLE-MOUNTED SITE LIGHT

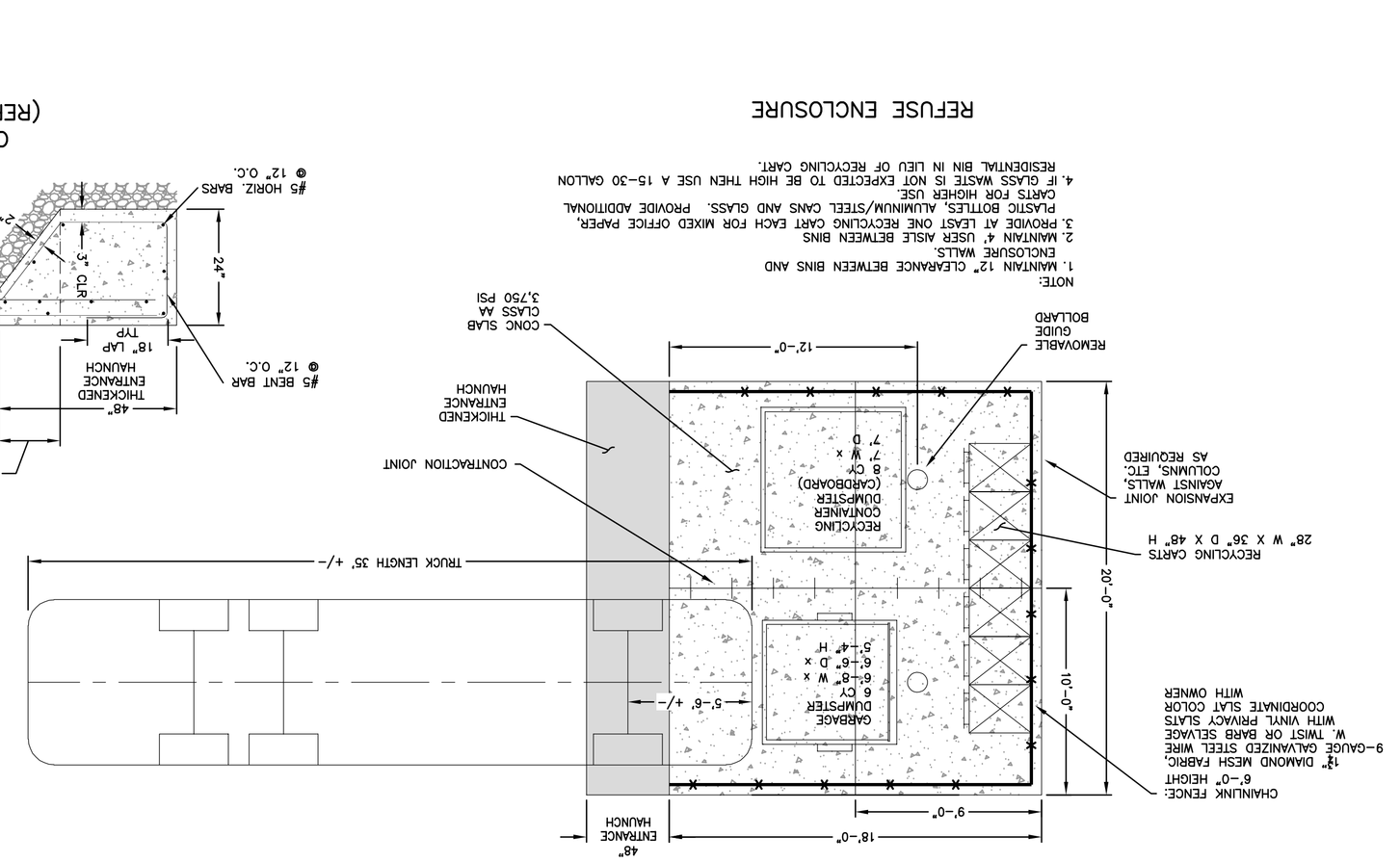
NOTE:
1. COORDINATE ALL FIXTURE TYPES AND APPURTENANCES WITH OWNER PRIOR TO ORDERING.
2. ALL APPURTENANCES (POLES AND MOUNTS) TO BE COORDINATED WITH FIXTURE FOR PROPER FIELD ASSEMBLY AND INSTALLATION.
3. COORDINATE POLE ANCHOR BOLT PATTERN AND PIER DIAMETER WITH MANUFACTURER'S RECOMMENDED POLE MOUNTING PATTERN PRIOR TO INSTALLING CONCRETE PIERS. ADVISE ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLATION OF ANY COMPONENTS.
4. CONCRETE PIER BASE TO BE 4,000 PSI CLASS AAA REINFORCED CONCRETE.
5. REINFORCEMENT STEEL TO BE GRADE 40, f_y = 40KSI.
6. MAINTAIN 2" COVER ON ALL REINFORCEMENT STEEL.

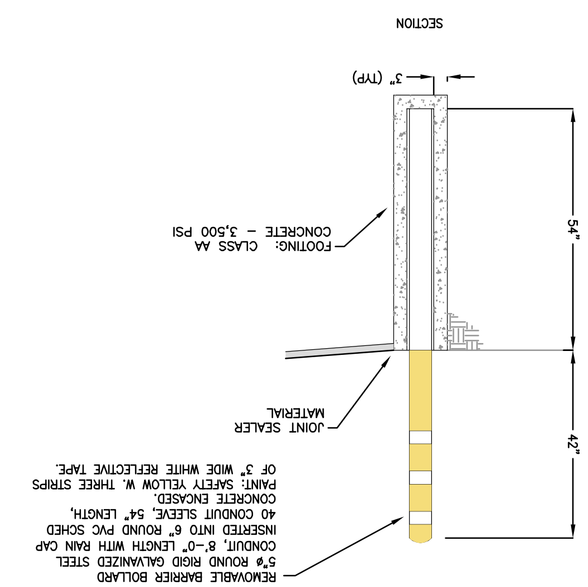
CONCRETE SIDEWALK

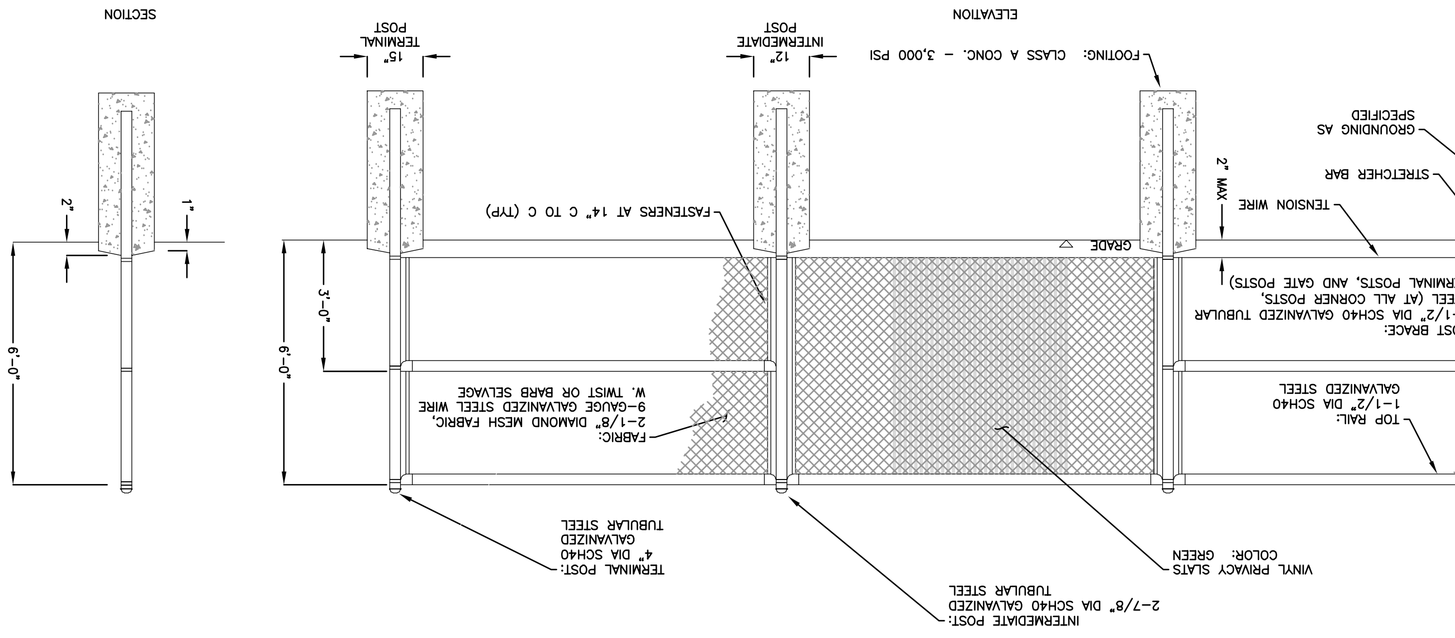
NOTE:
1. SIDEWALK WIDTH PER PLAN.
2. SIDEWALK CROSS-SLOPE 2% MAX.











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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

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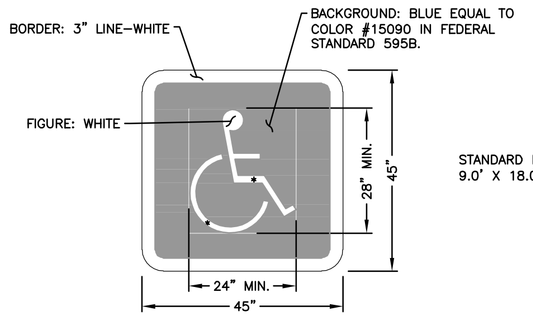
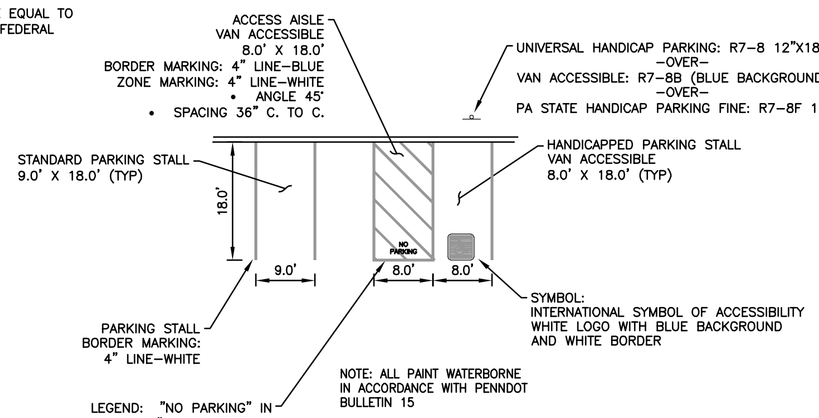


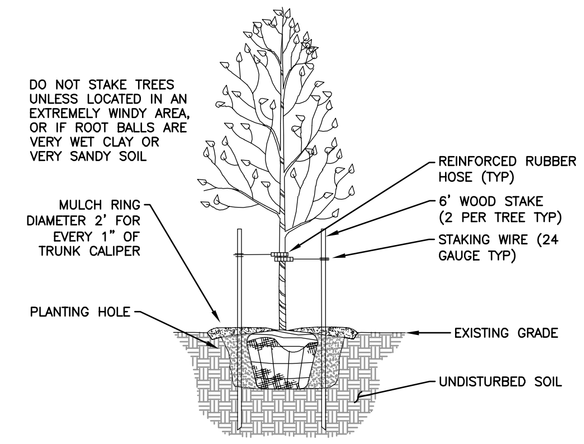
NOTE: ALL PAINT WATERBORNE IN ACCORDANCE WITH PENNDOT BULLETIN 15

PAVEMENT MARKING
INTERNATIONAL SYMBOL
OF ACCESSIBILITY LEGEND



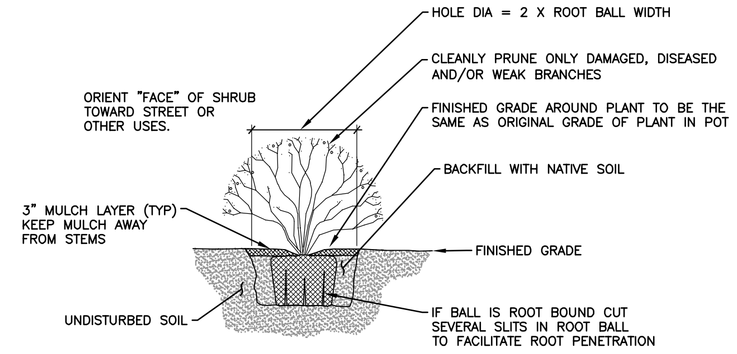
NOTE: ALL PAINT WATERBORNE IN ACCORDANCE WITH PENNDOT BULLETIN 15

PAVEMENT MARKING
PARKING STALLS – 90°

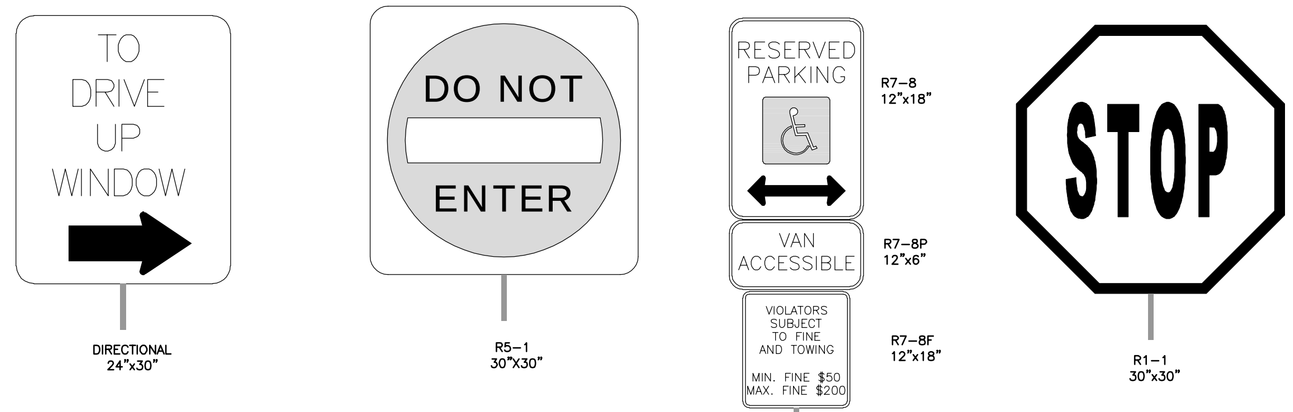


NOTE:
1. EXCAVATE PLANTING HOLE TO DEPTH OF THE ROOT BALL. PLANTING HOLE DIA = 2 X ROOT BALL WIDTH.
2. SET ROOT BALL AT, OR SLIGHTLY ABOVE FINISHED GRADE. DO NOT COVER THE ROOT BALL WITH SOIL.
3. CUT TWINE, OR BURLAP, FROM AROUND TRUNK. CUT WIRE BASKET FROM THE TOP PORTION OF THE ROOT BALL (IF APPLICABLE).
4. BACKFILL WITH EXISTING SOIL. USE OF SOIL AMENDMENTS IS NOT RECOMMENDED.
5. TAMP SOIL AROUND ROOT BALL FIRMLY.
6. MULCH RING WITH HAND CUT EDGE, SHALL BE PLACED AROUND EACH TREE IF NOT LOCATED IN A MULCHED BED, PLACE 3" SHREDDED TANBARK MULCH IN RING, TAPER TO 0" AT TRUNK.
7. ONLY PRUNE DEAD, BROKEN, OR CROSSOVER LIMBS.

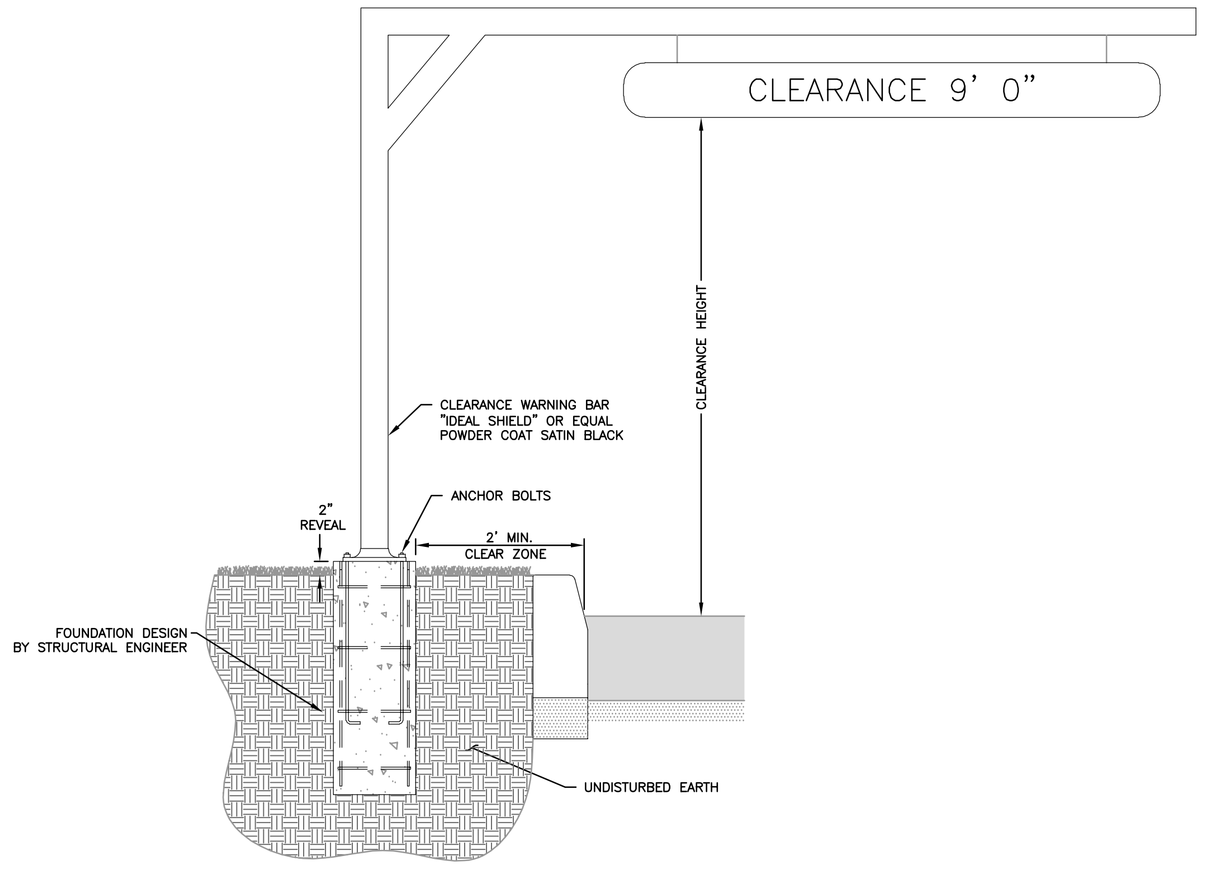
TREE PLANTING



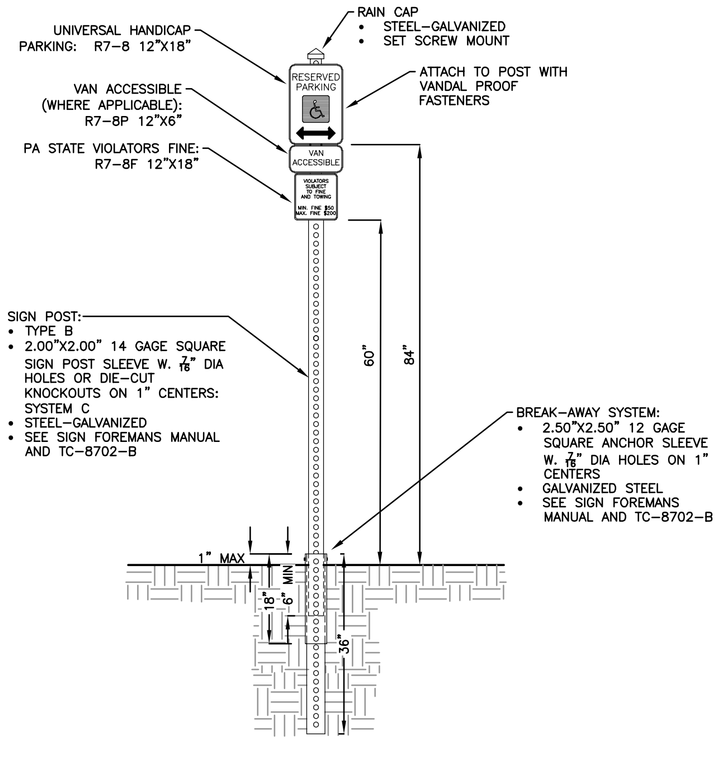
SHRUB PLANTING



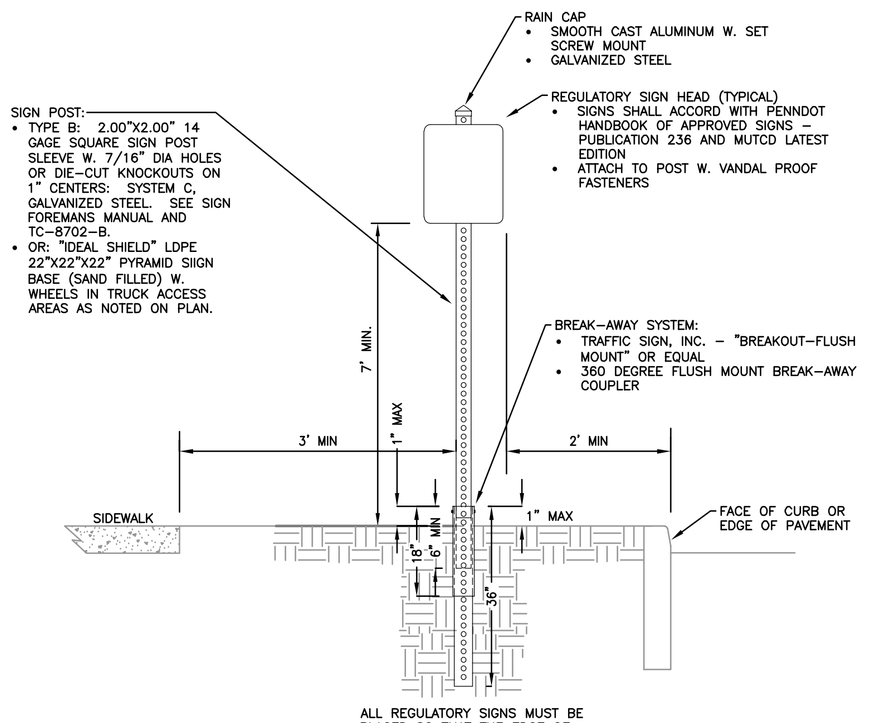
SIGN HEADS



CLEARANCE WARNING BAR



UNIVERSAL HANDICAPPED PARKING
VAN ACCESIBLE
POST-MOUNTED



ALL REGULATORY SIGNS MUST BE PLACED SO THAT THE EDGE OF THE SIGN HEAD IS NO CLOSER THAN 2' TO THE EDGE OF PAVEMENT OR FACE OF CURB.

SIGN
POST-MOUNTED

3500 E. College Avenue
Suite 1100
State College, PA 16801
P:(814) 231-2925

KELLER ENGINEERS
CIVIL • STRUCTURAL • SURVEY
www.keller-engineers.com

DATE & INITIALS	REVISION DESCRIPTION

FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

DETAILS - SITE
PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

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DATE:	2025-01-03
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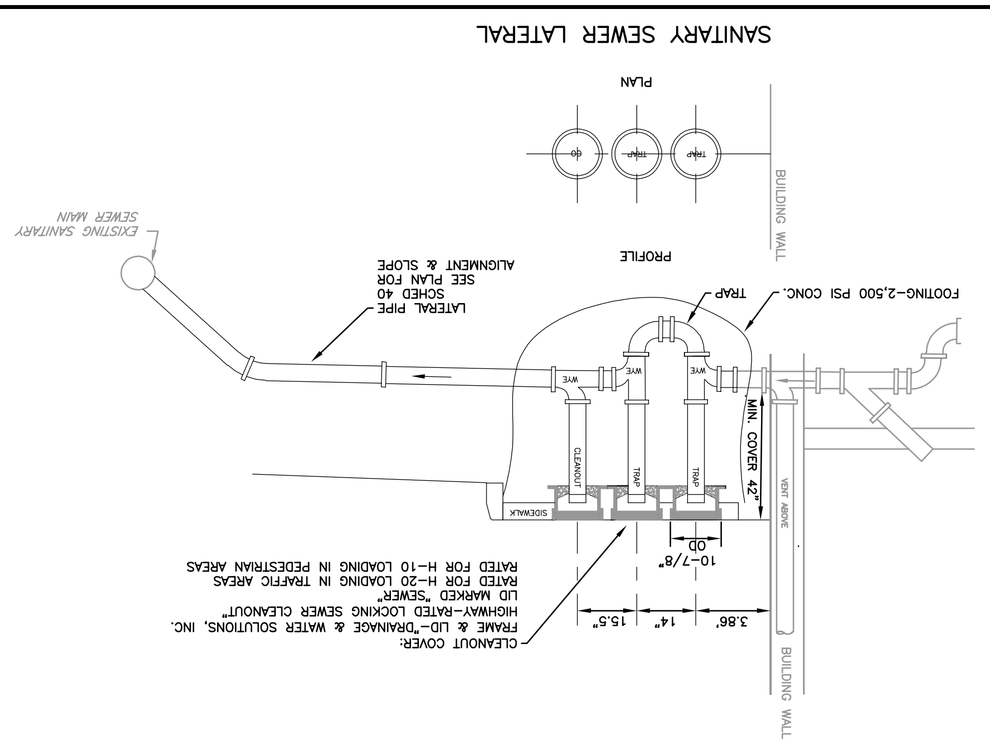
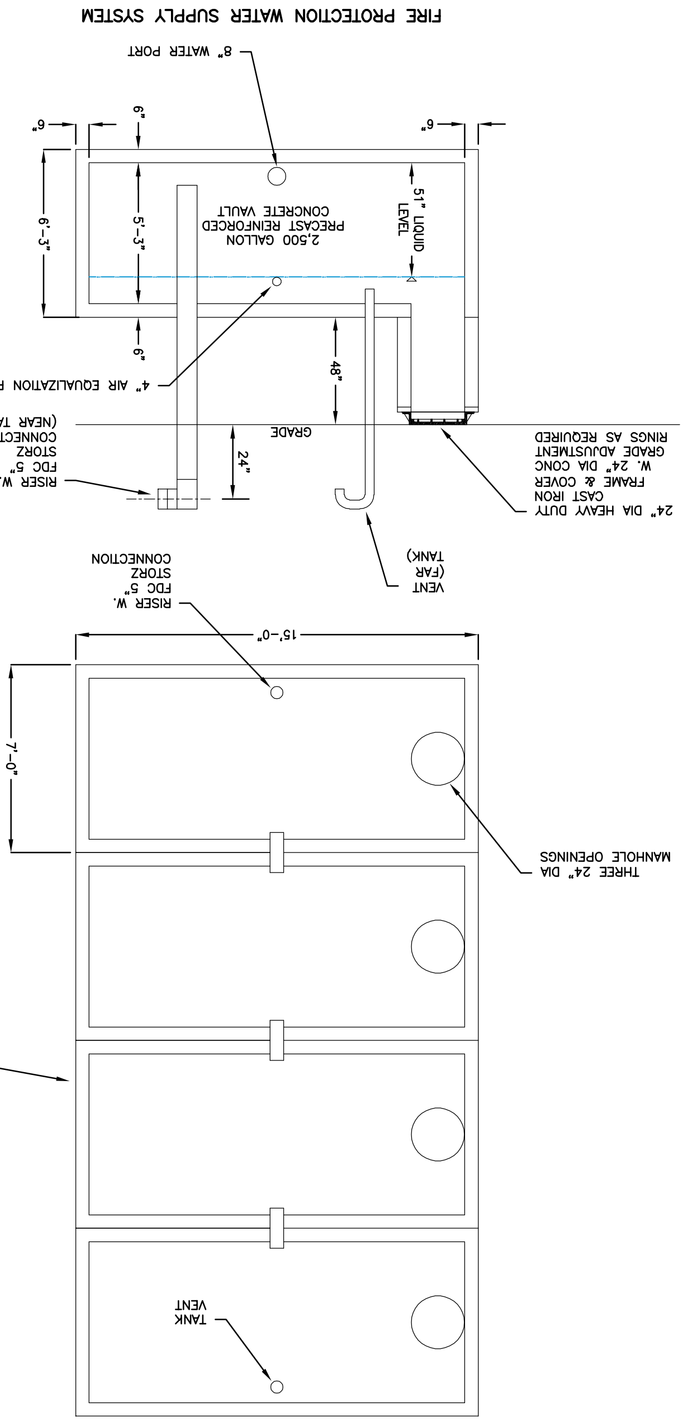
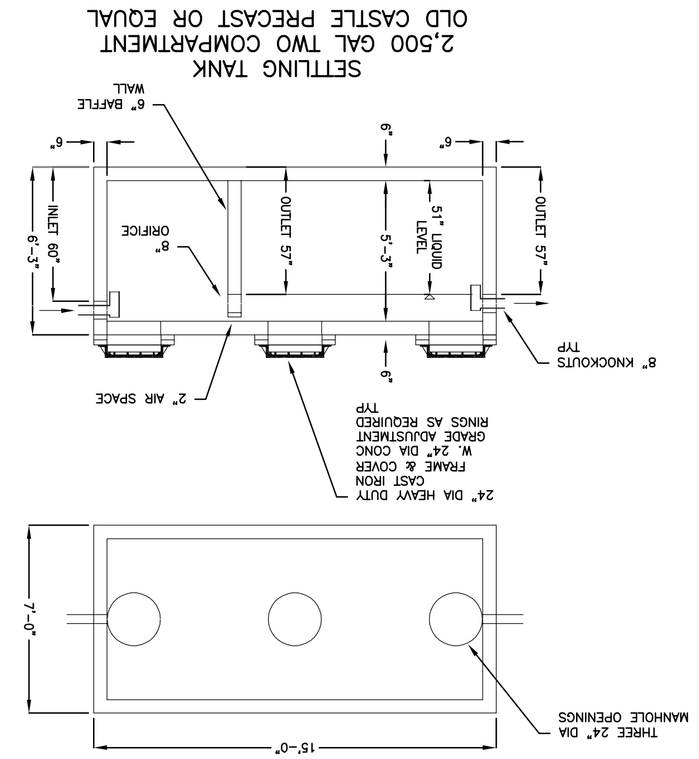
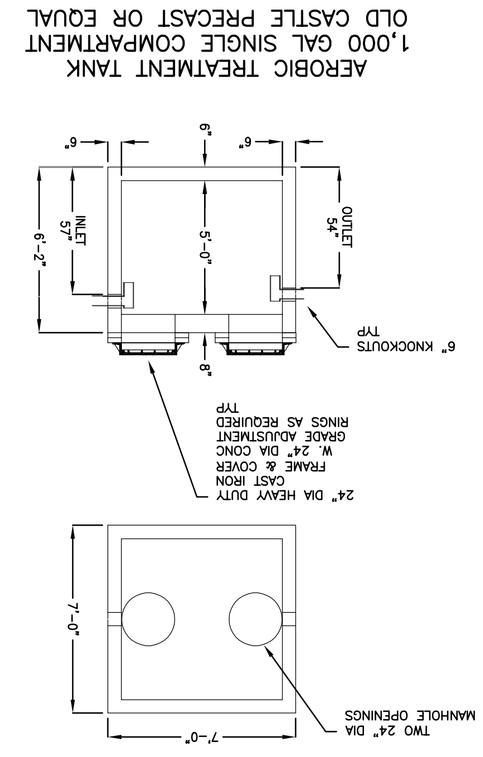
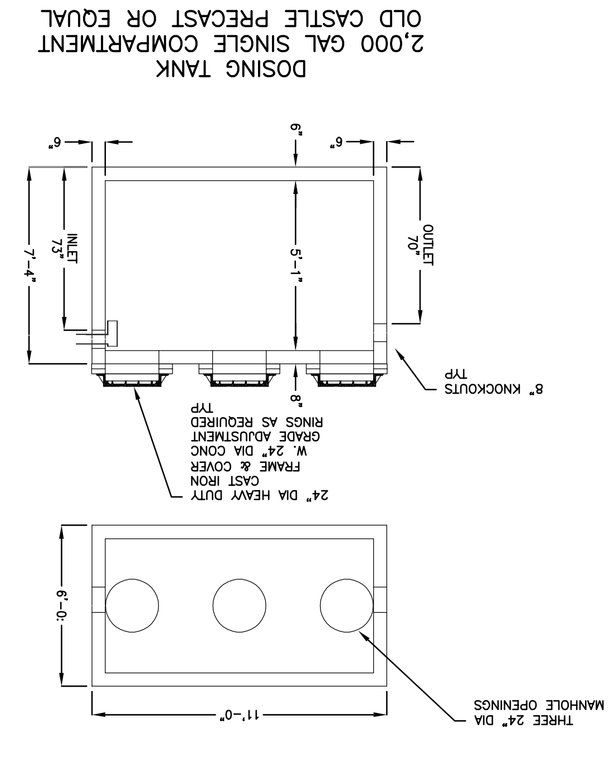
DRAWN BY:	
CHECKED BY:	

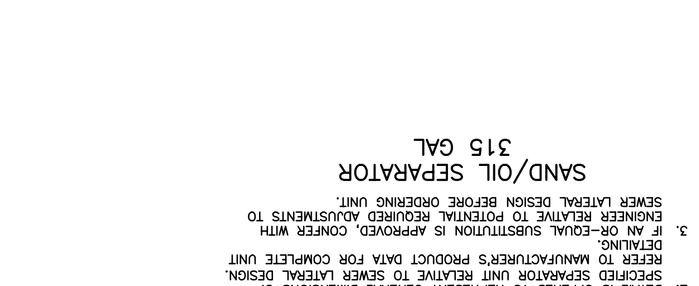


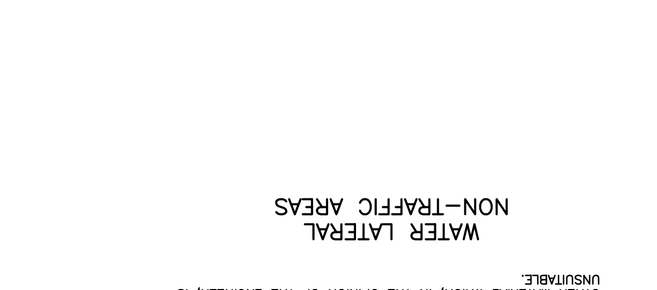


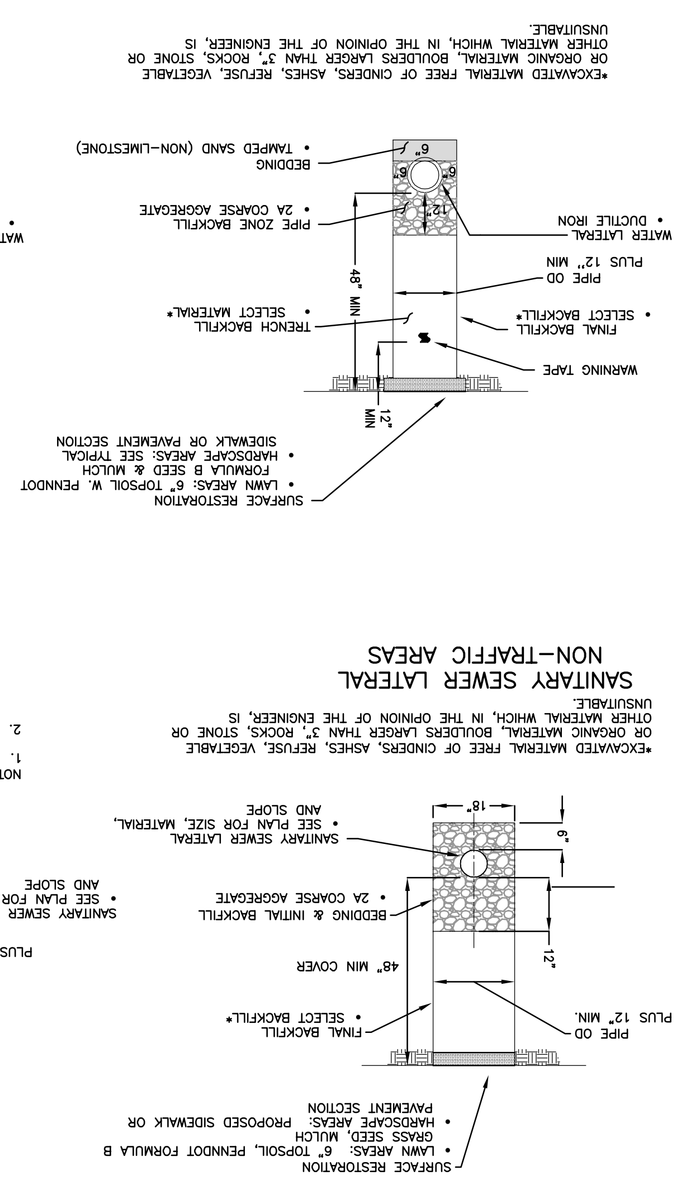


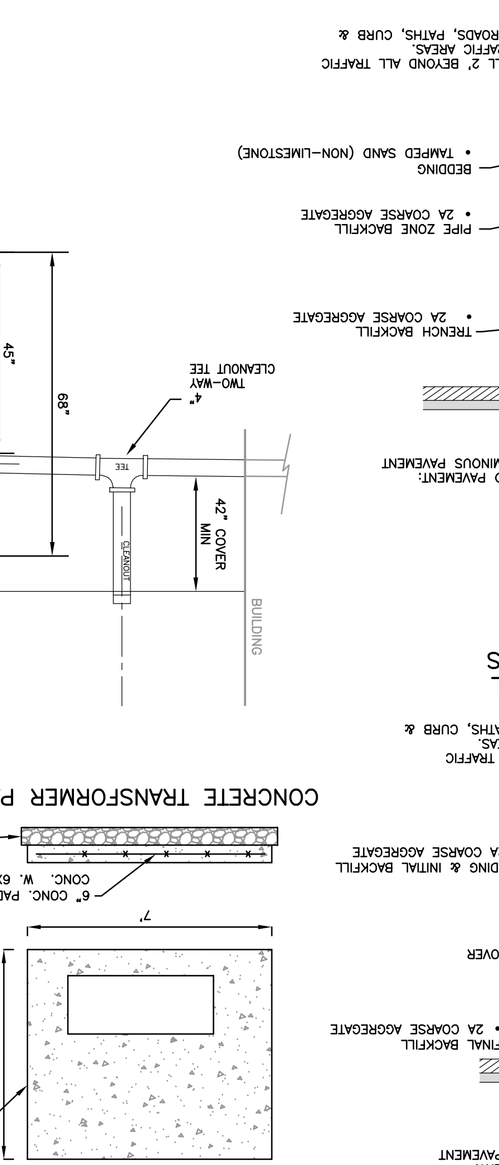


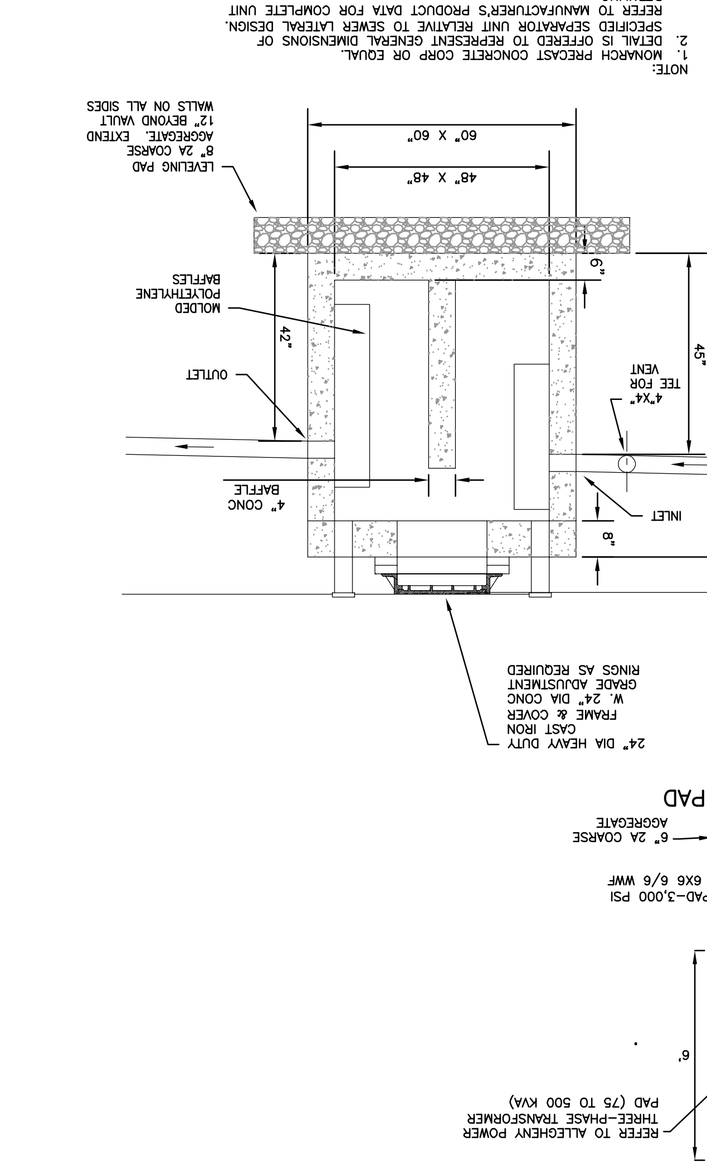


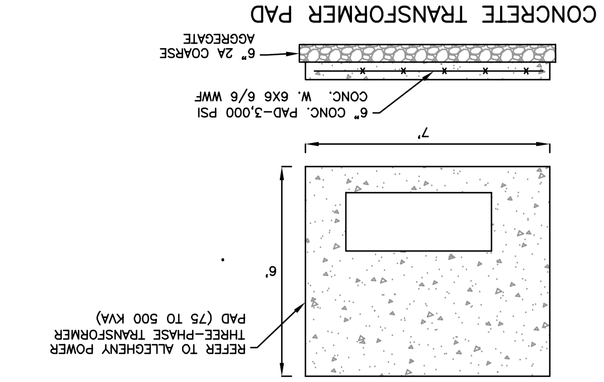












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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

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PROJECT NO.:	4769-1
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DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	

23

GENERAL NOTES:

1. ALL EARTH DISTURBANCE, 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 MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM, INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THE SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING, AND TOPSOIL STRIPPING MAY NOT COMMENCE AT 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.
7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN 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.
9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET. SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
14. VEHICLE AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM LOT AREAS ONTO COMPLETED AMICUS DRIVE.
15. 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, RE-GRADING, RE-SEEDING, RE-MULCHING AND RE-NETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
16. 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.
17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORKDAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
18. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES (6 TO 12 INCHES ON COMPACTED SOILS) PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM 2 INCHES OF TOPSOIL.
20. 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.
21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
26. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
27. 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.
28. 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.
29. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED WITH ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
30. 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.
31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
32. 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.
33. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO $10,000 PER DAY IN CIVIL PENALTIES, UP TO $10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO $25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

SITE SPECIFIC NOTES:

1. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
2. ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES.
3. UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
4. CHANNELS HAVING RIPRAP, RENO MATTRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING.
5. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
6. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM 8" LAYERED LIFTS AT 100% MAXIMUM DRY DENSITY.

E&SPC TEMPORARY BMP OPERATION, MAINTENANCE AND INSPECTION:

1. GENERAL:
   A. TEMPORARY EROSION & SEDIMENT POLLUTION CONTROL FOR THIS PROJECT IS PROVIDED BY A VARIETY OF BEST MANAGEMENT PRACTICES, INCLUDING ROCK CONSTRUCTION ENTRANCE, INLET FILTERS, COMPOST FILTER SOCK, EROSION CONTROL BLANKET, SOIL BINDERS AND/OR FLOCCULANTS, AND PUMPED WATER FILTER BAGS.
2. MAINTENANCE RESPONSIBILITY:
   A. DURING CONSTRUCTION: THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF BOTH TEMPORARY AND PERMANENT BMPS FOR THE DURATION OF THE CONSTRUCTION EFFORT. THE PRIME SITE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE OF ALL BMPS UNTIL STABILIZATION HAS OCCURRED.
   B. REMOVAL: THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL TEMPORARY BMPS UPON ACHIEVEMENT OF A VEGETATIVE COVERAGE WITH A DENSITY OF 70% ACROSS THE DISTURBED AREAS.
   C. THEREAFTER: UPON FINAL COMPLETION THE FACILITIES WILL BE TURNED OVER TO THE OWNER WHO WILL THEN BECOME RESPONSIBLE FOR CONTINUING MAINTENANCE OF THE PERMANENT BMPS.
3. FACILITY INSPECTION SCHEDULE:
   A. DURING CONSTRUCTION: THE CONTRACTOR SHALL INSPECT BOTH TEMPORARY AND PERMANENT BMPS ON A WEEKLY BASIS, AND AFTER EACH MEASURABLE RAINFALL EVENT UNTIL STABILIZATION IS ACHIEVED.
   B. THEREAFTER: THE OWNER SHALL INSPECT PERMANENT BMPS WEEKLY, AND AFTER EACH MEASURABLE RAINFALL EVENT THEREAFTER.
   C. REQUIRED MAINTENANCE WORK: ALL REQUIRED PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, REGRADING, RE-SEEDING, RE-MULCHING, AND RE-NETTING, SHALL BE PERFORMED BY THE RESPONSIBLE PARTY IMMEDIATELY. A TIME LIMIT OF ONE WORKING DAY IS IMPOSED FOR MAKING REPAIRS TO BMPS REQUIRING REPAIRS OR MAINTENANCE.
4. GENERAL:
   A. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, RE-GRADING, RE-SEEDING, RE-MULCHING, AND RE-NETTING MUST BE PERFORMED IMMEDIATELY.
   B. AN ADEQUATE SUPPLY OF ADDITIONAL E&SPC CONTROL MATERIALS SHALL BE STOCKED ON SITE TO BE USED IN THE EVENT THAT EMERGENCY REPAIRS ARE REQUIRED.
   C. DISTRIBUTE ACCUMULATED SEDIMENT REMOVED FROM E&SPC CONTROL STRUCTURES ON TEMPORARY STOCKPILES, OR REMOVE FROM SITE AND DISPOSE OF IN APPROVED MANNER AND LOCATION.
   D. INLET PROTECTION: ALL STORMWATER INLETS AS SHOWN ON PLAN (EXISTING/PROPOSED), WHICH DO NOT DISCHARGE TO SEDIMENT TRAPS OR BASINS, MUST BE PROTECTED (FILTERED) UNTIL THE TRIBUTARY AREAS ARE STABILIZED.
   E. DEWATERING: THE COST OF PUMPING AND DEWATERING THE CONSTRUCTION AREA IS INCIDENTAL TO OTHER ITEMS OF CONSTRUCTION. NO SEPARATE PAYMENT WILL BE MADE.
   F. TEMPORARY STABILIZATION:
      1) MUST BE UTILIZED AS NEEDED DURING PLANNED OR UNPLANNED PROJECT SUSPENSION OR IF THE DISTURBED AREA ACHIEVES FINAL GRADE DURING AN UNFAVORABLE GROWING SEASON.
      2) DURING WINTER, TEMPORARY STABILIZATION CONSISTS OF MULCHING AT THE RATE OF 3 TONS/ACRE.
      3) AT ALL OTHER TIMES UTILIZE TEMPORARY SEED AND MULCH IN ACCORDANCE WITH THE SEEDING CHART CONTAINED ON THIS PLAN.
5. TEMPORARY STOCKPILING:
   A. ANY MATERIAL INCLUDING TOPSOIL NOT IMMEDIATELY PLACED IN THE FINAL PROPOSED POSITION MUST BE TEMPORARILY STOCKPILED. THIS TEMPORARY STOCKPILE MUST BE TRIBUTARY TO APPROPRIATE E&SPC DEVICES AND APPROVED BY THE ENGINEER.
   B. CONSTRUCT STOCKPILE TO FREELY DRAIN SURFACE WATER.
   C. COVER STOCKPILES TO PREVENT WINDBLOWN DUST.
   D. LONG TERM STOCKPILES MUST BE TEMPORARILY STABILIZED WITH TEMPORARY SEEDING AND MULCHING.
   E. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.
6. RECYCLING AND DISPOSAL MEASURES: THE CONTRACTOR SHALL MAKE EVERY ATTEMPT TO RECYCLE WASTE AND DEMOLITION MATERIAL. IF THIS MATERIAL CANNOT BE RECYCLED, THE CONTRACTOR SHALL DISPOSE OF THE MATERIAL IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL GUIDELINES AND REGULATIONS.
7. STABILIZATION:
   A. STOCKPILED TOPSOIL TO BE UTILIZED ON ALL SPECIFIED PERMANENT STABILIZATION AREAS. SUPPLEMENT STOCKPILES AS REQUIRED.
   B. PLACE A MINIMUM DEPTH OF 4" OF TOPSOIL ON ALL AREAS TO BE VEGETATED PRIOR TO SEEDING AND MULCHING.
   C. SCARIFY AREAS THAT ARE TO BE TOP-SOILED TO A MINIMUM DEPTH OF 3" TO 5" (6" TO 12" ON COMPACTED SOILS) PRIOR TO PLACEMENT.
   D. CUT OR FILL SLOPES TO BE TOPSOILED (6" MINIMUM DEPTH), SEEDED AND MULCHED IN REGULAR VERTICAL INCREMENTS (15' MAXIMUM) AS THE SLOPE IS BEING CONSTRUCTED.
   E. ALL FINAL CUT, FILL, OR STORMWATER EMBANKMENT SLOPES 3:1 OR STEEPER SHALL HAVE AN EROSION CONTROL BLANKET INSTALLED IN CONJUNCTION WITH THE PERMANENT VEGETATIVE BMP. TERRA JUTE EROSION CONTROL FABRIC OR EQUIVALENT SHALL BE USED FOR THIS PURPOSE.
   F. TEMPORARY STABILIZATION WILL BE UTILIZED AS NEEDED DURING PLANNED OR UNPLANNED PROJECT SUSPENSION, OR IF THE DISTURBED AREA ACHIEVES FINAL GRADE DURING AN UNFAVORABLE GROWING SEASON. DURING THE WINTER, TEMPORARY STABILIZATION CONSISTS OF MULCHING AT THE RATE OF 3 TONS/ACRE. UTILIZE TEMPORARY SEED AND MULCH IN ACCORDANCE WITH THE DETAIL SHOWN IN THIS PLAN AT ALL OTHER TIMES.

E&SPC TEMPORARY BMPS:

1. ROCK CONSTRUCTION ENTRANCE:
   A. ABACT: UTILIZE ABACT ALTERNATIVE ROCK CONSTRUCTION ENTRANCE CONSISTING OF 6" COMPACTED 2RC AGGREGATE ON 8" AASHTO #1 STONE.
   B. INSTALL AT LOCATION PER PLAN.
   C. MAINTAIN THE SPECIFIED THICKNESS OF ALL ROCK CONSTRUCTION ENTRANCES BY THE ADDITION OF ROCK. MAINTAIN A STOCKPILE OF ROCK MATERIAL ON SITE FOR THIS PURPOSE.
2. STREET SWEEPING:
   A. TRAIN ALL CURRENT EMPLOYEES WHO PERFORM STREET SWEEPING OR MAINTENANCE ON THIS BMP.
   B. UTILIZE MECHANICAL BROOM VACUUM STREET SWEEPER TO SWEEP ALL PAVED AREAS CLEAN FROM TRACKED MUD, SOIL, AND DUST DURING EACH DAY INVOLVING EARTH DISTURBANCE OPERATIONS AND AS OTHERWISE MAY BE REQUIRED. USE HIGH EFFICIENCY, VACUUM-ASSISTED OR REGENERATIVE AIR SWEEPERS WHENEVER POSSIBLE.
   C. DO NOT UTILIZE WATER SPRAY BARS FOR DUST CONTROL.
   D. OPERATE ALL SWEEPERS TO ACHIEVE OPTIMAL DEBRIS REMOVAL AS RECOMMENDED BY MANUFACTURER. THIS INCLUDES ADJUSTING SWEEPER SPEED, BRUSH ALIGNMENT, ROTATION RATE, AND SWEEPING PATTERN.
   E. PAVED AREAS INCLUDE PRIVATE PARKING LOT, DRIVEWAY, AND TOWNSHIP OR STATE ROADWAYS IF SO REQUIRED.
   F. SWEEP AT SUFFICIENT INTERVALS TO AVOID LARGE CLODS OF EARTH REMAINING ON ROADWAYS AND PAVED AREAS FOR ANY PERIOD OF TIME, AND SWEEP AT END OF EACH WORKING DAY.
   G. DO NOT SWEEP DURING RAINSTORMS.
   H. COLLECT DEBRIS FROM SWEEPER HOPPER AND REMOVE TO ACCEPTABLE PERMANENT DISPOSAL SITE. DISPOSE OF COLLECTED DEBRIS REGULARLY; DO NOT ALLOW TO ACCUMULATE. DO NOT DISPOSE COLLECTED MATERIAL NEAR ANY STORM DRAIN OR SURFACE WATER BODIES, OR WHERE WIND OR RAIN COULD SCATTER DEBRIS.
   I. INSPECT AND MAINTAIN ALL SWEEPERS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
   J. KEEP RECORDS OF STREET SWEEPING ACTIVITIES INCLUDING FREQUENCY OF SWEEPING.
3. COMPOST FILTER SOCK:
   A. ABACT: UTILIZE COMPOST FILTER SOCK WITH WOOD CHIPS FOR THIS PROJECT.
   B. THE COMPOST FILTER SOCK LAYOUT CONTAINED WITHIN THIS PLAN IS REPRESENTATIVE IN NATURE. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL INSTALLATION PROCEDURES IDENTIFIED IN THE EROSION AND SEDIMENT POLLUTION CONTROL MANUAL AND MANUFACTURERS INSTALLATION REQUIREMENTS. THIS INCLUDES LEVELING, END EXTENSIONS, ANCHORING, SECTION STRENGTHENING, LAPPING, ETC.
   C. COMPOST FILTER SOCK MUST BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH SOCK SHALL BE EXTENDED AT LEAST 8' UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT.
   D. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
   E. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES ½ THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL GUIDELINES AND REGULATIONS.
   F. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
   G. BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
   H. 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 IMPROVEMENT.
   I. REMOVE ACCUMULATED SEDIMENT AS NECESSARY TO MAINTAIN FUNCTIONALITY OF THE COMPOST FILTER SOCK. IN ANY CASE, REMOVE DEPOSITS WHEN SEDIMENT ACCUMULATION REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS OR REPLACE 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 SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.
4. INLET FILTER BAGS:
   A. INSTALL AT LOCATIONS INDICATED ON PLAN.
   B. EMPTY BAG WHEN ACCUMULATED DEBRIS/SEDIMENT REACHES ½ MAXIMUM CAPACITY. REPLACE IF BAG IS RIPPED OR TORN. EXTRA FILTER BAGS MUST BE MAINTAINED ON SITE FOR THIS PURPOSE. DISPOSE OF ALL SEDIMENT REMOVED FROM DEVICES IN AN APPROVED MANNER.
5. DRAINAGE DITCHES:
   A. INSTALL AT LOCATIONS INDICATED ON PLAN.
   B. MAINTAIN DESIGN CAPACITY AT ALL TIMES. REMOVE ALL SEDIMENT ACCUMULATION AND DISPOSE OF IN AN APPROVED MANNER. REPAIR OR REPLACE PROTECTIVE LININGS AT THE FIRST SIGN OF DETERIORATION.
6. PUMPED WATER FILTER BAGS:
   A. INSTALL AT LOCATIONS INDICATED ON PLAN.
   B. PUMPED WATER SEDIMENT FILTER BAGS: REPLACE FILTER BAG ONCE SEDIMENT REACHES ½ MAXIMUM CAPACITY, OR IF BAG IS RIPPED OR TORN. EXTRA FILTER BAGS MUST BE MAINTAINED ON SITE FOR THIS PURPOSE. DISPOSE OF ALL SEDIMENT REMOVED FROM DEVICES IN AN APPROVED MANNER.
7. EROSION CONTROL BLANKET:
   A. INSTALL ON ALL COMPLETED EMBANKMENT OR EXCAVATIONS WITH SLOPES OF 3:1 OR GREATER.
   B. INSTALL ON ALL SEEDED AREAS WITHIN 50' OF A SURFACE WATER AND 100 FEET OF A SPECIAL PROTECTION WATER REGARDLESS OF SLOPE.
   C. INSTALL OR APPLY BLANKETS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
   D. FOR ROLLED BLANKETS, AREAS TO BE BLANKETED SHOULD BE SMOOTH AND UNIFORM TO ENSURE CONTINUOUS CONTACT BETWEEN BLANKET AND UNDERLYING SOIL. SMOOTHING OF SURFACE IS NOT REQUIRED FOR SPRAY-ON BLANKETS.
   E. A SPECIFIC EROSION CONTROL BLANKET PRODUCT HAS NOT BEEN IDENTIFIED IN THIS EROSION CONTROL PLAN; THEREFORE, MINIMUM STANDARDS FOR APPLICATION AS INDICATED ON DETAIL MUST BE FOLLOWED.
8. TEMPORARY SEEDING & MULCHING:
   A. IN PLANTING SEASON:
      - SEED: PENNDOT FORMULA E @ 10 LBS/1000 SY
      - MULCH: 3 TONS/ACRE (3 BALES/1000 SF) W. NON-ASPHALTIC EMULSION
      - APPLICATION DATES: MARCH 15 TO OCTOBER 15
   B. OUT OF PLANTING SEASON:
      - MULCH: 3 TONS/ACRE (3 BALES/1000 SF) W. NON-ASPHALTIC EMULSION, ANCHORED WITH APPROVED EROSION CONTROL NETTING.
      - APPLICATION DATES: OCTOBER 16 TO MARCH 14.
      - TO BE APPLIED IMMEDIATELY UPON COMPLETION OF INSTALLATION OF TEMPORARY SEDIMENT BASINS, TRAPS OR DITCH CHANNELS REQUIRING SUCH STABILIZATION) WITHIN SPECIAL PROTECTION WATERSHEDS.
      - TO BE APPLIED IMMEDIATELY TO SUBGRADE OF ANY DISTURBED AREA (INCLUDING STOCKPILES) WHERE CONSTRUCTION ACTIVITIES WILL TEMPORARILY CEASE FOR 24 HOURS OR GREATER WITHIN SPECIAL PROTECTION WATERSHEDS.
      - TO BE APPLIED IMMEDIATELY TO FINAL GRADE OF ANY DISTURBED AREA IF IT IS ACHIEVED DURING A RESTRICTED PERMANENT SEEDING SEASON WITHIN SPECIAL PROTECTION WATERSHEDS.
      - DISTURBED AREAS WHICH ARE NOT AT FINAL GRADE, AND WHICH WILL BE RE-DISTURBED WITHIN ONE YEAR MUST BE IMMEDIATELY STABILIZED IN ACCORDANCE WITH TEMPORARY SEEDING SPECIFICATIONS (PENNDOT FORMULA E SEED).
      - FOR SEEDING SPECIFICATIONS AND GERMINATING PERIODS, REFER TO PENNDOT PUBLICATION 408, SECTION 804.
9. PERMANENT SEEDING & MULCHING:
   A. LAWNS (SLOPES UP TO AND INCLUDING 3:1): USE ON ALL AREAS OF THE PROJECT GRADED AT 3:1 OR LESS THAT WILL BE ROUTINELY MOWED (WITH THE EXCEPTION OF STORMWATER BASIN BOTTOMS – SEE FORMULA W, AND DITCH CHANNELS – SEE FORMULA D) UNLESS PLANS SPECIFICALLY INDICATE OTHERWISE.
      1) SEED: PENNDOT FORMULA B @ 21 LBS/1000 SY
      2) SOIL SUPPLEMENTS:
         - PULVERIZED AGRICULTURAL LIMESTONE: 800 LB / 1000 SY
         - COMMERCIAL FERTILIZER 10-20-20: 140 LB / 1000 SY
         - UREAFORM FERTILIZER 38-0-0: 50 LB / 1000 SY
         - SLOW-RELEASE NITROGEN FERTILIZER: PER PENNDOT PUBLICATION 408
      3) MULCH: 3 TONS/ACRE (3 BALES/1000 SF) W. NON-ASPHALTIC EMULSION
      4) SOIL TESTING: CONFIRM APPLICATION RATES VIA SOIL TESTING
      5) APPLICATION DATES: MARCH 15 TO JUNE 1 & AUGUST 1 TO OCTOBER 15
      6) USE: LAWN AREAS. DEFAULT SEEDING APPLICATION FOR GENERAL SLOPE AREAS LESS THAN OR EQUAL TO 3:1.
   B. STEEPER SLOPES AND OTHER NON-MOWED SURFACES WITH ROCKY CONDITIONS: AS THIS FORMULA CONTAINS INVASIVE VETCH, IT IS NOT TO BE UTILIZED UNLESS SPECIFIC, STEEP (> 3:1), ROCKY CONDITIONS WILL NOT SUPPORT ANY OTHER VARIETY. DO NOT USE FORMULA C UNLESS IT IS SPECIFICALLY CALLED FOR ON PLANS OR FIELD-ORDERED BY ENGINEER.
      1) SEED: PENNDOT FORMULA C @ 9 LBS/1000 SY
      2) SOIL SUPPLEMENTS:
         - PULVERIZED AGRICULTURAL LIMESTONE: 800 LB / 1000 SY
         - COMMERCIAL FERTILIZER 10-20-20: 140 LB / 1000 SY
         - UREAFORM FERTILIZER 38-0-0: 50 LB / 1000 SY
         - SLOW-RELEASE NITROGEN FERTILIZER: NONE
      3) MULCH: 3 TONS/ACRE (3 BALES/1000 SF) W. NON-ASPHALTIC EMULSION
      4) SOIL TESTING: CONFIRM APPLICATION RATES VIA SOIL TESTING
      5) APPLICATION DATES:
         - RYE GRASS PORTION: MARCH 1 TO OCTOBER 15
         - CROWN VETCH PORTION: ANYTIME EXCEPT SEPTEMBER & OCTOBER
      6) USE: STEEP ROCKY AREAS. CROWN VETCH COMPONENT CONSIDERED AN INVASIVE SPECIES; DO NOT USE UNLESS SPECIFICALLY CALLED FOR ON PLAN.
   C. STEEPER SLOPES WHERE MOWING MAY OR MAY NOT OCCUR, & DRAINAGE CHANNELS: UTILIZE UPON CUT OR FILL SLOPES > 3:1 OR WITHIN DRAINAGE CHANNELS AND SWALES.
      1) SEED: PENNDOT FORMULA D @ 21 LBS/1000 SY
      2) SOIL SUPPLEMENTS:
         - PULVERIZED AGRICULTURAL LIMESTONE: 800 LB / 1000 SY
         - COMMERCIAL FERTILIZER 10-20-20: 140 LB / 1000 SY
         - UREAFORM FERTILIZER 38-0-0: 50 LB / 1000 SY
         - SLOW-RELEASE NITROGEN FERTILIZER: PER PENNDOT PUBLICATION 408
      3) MULCH: 3 TONS/ACRE (3 BALES/1000 SF) W. NON-ASPHALTIC EMULSION.
      4) SOIL TESTING: CONFIRM APPLICATION RATES VIA SOIL TESTING.
      5) APPLICATION DATES: MARCH 15 TO JUNE 1 & AUGUST 1 TO OCTOBER 15.
      6) MOWING: NO RESTRICTIONS.
      7) USE: DRAINAGE CHANNELS AND STEEPER SLOPE AREAS (> 3:1) REQUIRING FREQUENT MOWING AND NOT OTHERWISE RECEIVING FORMULA C.
   D. LOW MAINTENANCE SLOPE AREAS WITH MOWING RESTRICTIONS (IN LIEU OF FORMULA B): UTILIZE IN AREAS THAT WILL NOT RECEIVE FREQUENT MOWING. UTILIZE ONLY IF SPECIFICALLY CALLED FOR ON PLAN.
      1) SEED: PENNDOT FORMULA L @ 24 LBS/1000 SY
      2) SOIL SUPPLEMENTS:
         - PULVERIZED AGRICULTURAL LIMESTONE: 800 LB / 1000 SY
         - COMMERCIAL FERTILIZER 10-20-20: 140 LB / 1000 SY
         - UREAFORM FERTILIZER 38-0-0: 50 LB / 1000 SY
         - SLOW-RELEASE NITROGEN FERTILIZER: PER PENNDOT PUBLICATION 408
      3) MULCH: 3 TONS/ACRE (3 BALES/1000 SF) W. NON-ASPHALTIC EMULSION.
      4) SOIL TESTING: CONFIRM APPLICATION RATES VIA SOIL TESTING.
      5) APPLICATION DATES: MARCH 15 TO JUNE 1 & AUGUST 1 TO OCTOBER 15.
      6) MOWING: RESTRICTED TO TWO MOWING CYCLES PER YEAR AT 6" MIN. HEIGHT.
      7) USE: DRY, LOW OR NON-MOW AREAS IN LIEU OF FORMULA B.
   E. STREAM BANK/WETLAND AREAS: UTILIZE IN ALL STORMWATER BASIN BOTTOMS AND INSIDE SIDE SLOPES, AND ALONG STREAM BANKS, ETC.
      1) SEED: PENNDOT FORMULA W @ 10.5. LBS/1000 SY
      2) SOIL SUPPLEMENTS:
         - PULVERIZED AGRICULTURAL LIMESTONE: 800 LB / 1000 SY
         - COMMERCIAL FERTILIZER 10-20-20: 140 LB / 1000 SY
         - UREAFORM FERTILIZER 38-0-0: 50 LB / 1000 SY
         - SLOW-RELEASE NITROGEN FERTILIZER: PER PENNDOT PUBLICATION 408
      3) MULCH: 3 TONS/ACRE (3 BALES/1000 SF) W. NON-ASPHALTIC EMULSION.
      4) SOIL TESTING: CONFIRM APPLICATION RATES VIA SOIL TESTING.
      5) APPLICATION DATES: APRIL 1 TO JUNE 15 & AUGUST 16 TO SEPTEMBER 15.
      6) USE: WETLAND AREAS.
   F. STORMWATER BASINS AND OTHER FREQUENTLY INUNDATED AREAS:
      1) SEED: ERNST SEEDS ERNMX-126 RETENTION BASIN FLOOR MIX
      2) SOIL SUPPLEMENTS: PER MANUFACTURER'S RECOMMENDATIONS
      3) MULCH: PER MANUFACTURER'S RECOMMENDATIONS
      4) SOIL TESTING: CONFIRM APPLICATION RATES VIA SOIL TESTING.
      5) APPLICATION DATES: PER MANUFACTURER'S RECOMMENDATIONS
      6) USE: STORMWATER CONTROL BASINS (BOTTOM AND INSIDE EMBANKMENT SLOPES) AND OTHER FREQUENTLY INUNDATED AREAS.
      7) TO BE APPLIED IMMEDIATELY UPON ACHIEVEMENT OF FINAL GRADES AFTER PLACEMENT OF TOPSOIL.
      8) APPLY TO CUT/FILL SLOPES IN REGULAR VERTICAL INCREMENTS (15' MAX.) AS THE SLOPE IS BEING CONSTRUCTED.
      9) DISTURBED AREAS, WHICH ARE AT FINAL GRADE, OR, WHICH WILL NOT BE RE-DISTURBED WITHIN ONE YEAR, MUST BE IMMEDIATELY STABILIZED IN ACCORDANCE WITH PERMANENT SEEDING SPECIFICATIONS.
      10) APPLY A TACKIFIER IN CERTAIN AREAS SUCH AS STEEPER SLOPES IF BANK EROSION IS A CONCERN, OR IF BANK EROSION BECOMES PROBLEMATIC DURING THE GERMINATION PERIOD AT NO ADDITIONAL COST TO OWNER.
      11) DURING NON-GERMINATING PERIODS APPLY MULCH OR PROTECTIVE BLANKETING.
      12) FOR SEEDING SPECIFICATIONS AND GERMINATING PERIODS, REFER TO PENNDOT PUBLICATION 408, SECTION 804.

RECYCLING AND DISPOSAL PROCEDURES:

1. ANTICIPATED CONSTRUCTION WASTE:
   A. WASTE FILL
   B. DEMOLITION DEBRIS
   C. CONSTRUCTION DEBRIS
   D. CONCRETE WASH WATER
2. RECYCLING AND DISPOSAL: THE CONTRACTOR SHALL MAKE EVERY ATTEMPT TO RECYCLE WASTE AND DEMOLITION MATERIAL. IF THE MATERIAL CANNOT BE RECYCLED, THE CONTRACTOR SHALL DISPOSE OF THE MATERIAL IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL GUIDELINES AND REGULATIONS.
3. NO DEMOLITION MATERIALS OR CONSTRUCTION DEBRIS SHALL BE BURNED, BURIED, DUMPED OR DISCHARGED AT THE PROJECT SITE.

STAGING OF EARTHMOVING ACTIVITIES:

THE FOLLOWING STAGES OF CONSTRUCTION MUST BE SEQUENTIALLY IMPLEMENTED AND FOLLOWED UNLESS AN ALTERNATE APPROACH IS APPROVED BY ENGINEER AND CONSERVATION DISTRICT. ENGINEER MUST BE NOTIFIED AT EACH DEFINED CRITICAL INSPECTION STAGE SO THAT SITE OBSERVATIONS, MEASUREMENTS, AND PHOTO DOCUMENTATION CAN BE MADE. FAILURE TO NOTIFY IN A TIMELY FASHION MAY RESULT IN THE REQUIREMENT TO UNCOVER COMPLETED WORK.

1. PHASE 1 INITIAL TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL BMP INSTALLATION: INSTALL TEMPORARY E&SPC PERIMETER CONTROL BMPS INCLUDING:
   A. ROCK CONSTRUCTION ENTRANCE WITH WASH RACK.
   B. COMPOST FILTER SOCK PERIMETER PROTECTION AT NORTH (LOWER) END OF SITE.
   C. COMPOST FILTER SOCK PERIMETER PROTECTION AT SOUTH (UPPER) END OF SITE TO PROTECT UPLAND CLEAN WATER BYPASS CHANNEL INSTALLATION.
   D. COMPOST FILTER SOCK INLET PROTECTION AT THREE EXISTING CULVERTS BENEATH SR 550.
   E. CRITICAL INSPECTION STAGE #1 – NOTIFY ENGINEER AND REFER TO SCM CONSTRUCTION CERTIFICATION FORM.
2. PHASE 2 EXISTING STRUCTURE DEMOLITION:
   A. DEMOLISH EXISTING GENERAL STORE STRUCTURES ON NORTH END OF SITE.
   B. REMOVE EXISTING CONCRETE AND ASPHALT PAVEMENT.
   C. REMOVE EXISTING PAVEMENT SUBBASE.
   D. APPLY 6" TOPSOIL.
   E. SEED & MULCH.
3. TREE FELLING:
   A. FELL TREES TO INDICATED CLEARING LIMITS.
   B. DO NOT REMOVE STUMPS (AND THUS CREATE EARTH DISTURBANCE) UNTIL CLEARING AND GRUBBING STAGE AFTER INSTALLATION OF UPLAND CLEANWATER BYPASS SYSTEM IN NEXT STAGE.
4. PHASE 3 UPLAND CLEAN WATER BYPASS SYSTEM:
   A. CLEAR & GRUB ONLY PROPOSED UPLAND CLEAN WATER DIVERSION CHANNEL AND CONVEYANCE PIPE CORRIDOR SITE. DO NOT CLEAR & GRUB BALANCE OF SITE AT THIS STAGE UNTIL UPLAND CLEAN WATER BYPASS SYSTEM IS OPERATIONAL.
   B. INSTALL UPLAND CLEAN WATER DIVERSION CHANNEL. REMOVE EXCAVATION TAILINGS FROM SITE AREA AS CHANNEL IS EXCAVATED. DEWATER PIPE TRENCH EXCAVATION USING A PUMPED WATER FILTER BAG.
   C. IMMEDIATELY STABILIZE EXCAVATED CHANNEL WITH CHANNEL LINING; SEED & MULCH.
   D. INSTALL CLEAN WATER DIVERSION CONVEYANCE CULVERT AROUND SITE. DEWATER PIPE TRENCH EXCAVATION USING A PUMPED WATER FILTER BAG.
   E. INSTALL FILTER BAG INLET PROTECTION IN TYPE L INLETS WITHIN CLEAN WATER DIVERSION CHANNEL.
   F. ACTIVATE UPLAND CLEAN WATER DIVERSION AROUND SITE AREA.
   G. CRITICAL INSPECTION STAGE #2 – NOTIFY ENGINEER AND REFER TO SCM CONSTRUCTION CERTIFICATION FORM.
5. PHASE 4 CLEARING & GRUBBING:
   A. CLEAR AND GRUB BALANCE OF DEVELOPMENT AREA
   B. TREE FELLING AND STUMP CLEARING WITHIN ON-LOT SUBSURFACE WASTEWATER DRAIN FIELD AREA TO BE OVERSEEN BY WASTEWATER SYSTEM DESIGNER.
   C. CLEAR AND GRUB BALANCE OF DEVELOPMENT AREA.
   D. STRIP AND STOCK TOPSOIL.
6. PHASE 5 MASS GRADING:
   A. PERFORM MASS GRADING CUT EXCAVATION. IMMEDIATELY INSTALL EROSION CONTROL BLANKET UPON COMPLETED CUT SLOPES UNLESS COMPETENT ROCK IS ENCOUNTERED; SEED & MULCH.
   B. PERFORM SITE ROUGH GRADING AND CUT TO FILL OPERATIONS, ESTABLISH BUILDING AND PARKING AREA SUBGRADES.
7. PHASE 6 STORMWATER MANAGEMENT BASIN:
   A. CONSTRUCT STORMWATER MANAGEMENT BASIN EMBANKMENT UNDERDRAIN, AND OUTLET SYSTEM. INSTALL EROSION CONTROL BLANKET UPON COMPLETED SLOPES; SEED & MULCH.
   B. CRITICAL INSPECTION STAGE #3 – NOTIFY ENGINEER AT FOLLOWING INCREMENTAL STAGES OF BASIN CONSTRUCTION:
      1) UPON EXPOSURE OF BASIN SUBGRADE
      2) UPON INSTALLATION OF BASIN UNDERDRAIN
      3) UPON INSTALLATION OF FILTER SOIL
8. PHASE 7 SITE CONSTRUCTION:
   A. EXCAVATE BUILDING FOUNDATIONS.
   B. INSTALL ALL PROPOSED STORMWATER COLLECTION & CONVEYANCE INLETS AND PIPES. INSTALL FILTER BAG INLET PROTECTION ON PROPOSED INLETS AS THEY ARE INSTALLED TO ENSURE SEDIMENT LADEN RUNOFF DOES NOT ENTER STORMWATER CONVEYANCE SYSTEM.
   C. INSTALL LP GAS TANK.
   D. INSTALL SEWAGE DISPOSAL TANKS.
   E. INSTALL WATER WELL SERVICE LATERAL TO BUILDING.
   F. DEWATER UTILITY OR BUILDING EXCAVATIONS USING A PROPERLY SIZED PUMPED WATER FILTER BAG. MAINTAIN ADEQUATE SUPPLY OF PUMPED WATER FILTER BAGS AT PROJECT SITE TO TREAT EXCAVATION SITUATIONS AS REQUIRED. A PROPERLY SIZED PUMPED WATER FILTER BAG MUST:
      1) BE SIZED SUCH THAT THE PUMP RATE DOES NOT EXCEED THE DESIGN MAXIMUM OR 750 GPM.
      2) TRAP PARTICLES LARGER THAN 150 MICRONS.
      3) BE REPLACED WHEN ACCUMULATED SEDIMENTS REACH BAG CAPACITY.
      4) BE PLACED ON A BED OF STRAW OR AGGREGATE.
      5) BE PLACED ON A SLOPE OF NO GREATER THAN 5%.
   G. CONSTRUCT BUILDING.
   H. FINE GRADE PARKING AREAS AND DRIVE-UP WINDOW LANE.
   I. PLACE PAVEMENT SUBBASE.
   J. INSTALL CURB AND SIDEWALK.
   K. PLACE BITUMINOUS ASPHALT PAVEMENT.
   L. CONNECT PROPOSED BUILDING ROOF DRAINS TO SITE STORMWATER CONVEYANCE SYSTEM.
   M. INSTALL LANDSCAPING.
   N. PLACE TOPSOIL AND APPLY FINAL SEED AND MULCH.
   O. CRITICAL INSPECTION STAGE #4 – NOTIFY ENGINEER AND REFER TO SCM CONSTRUCTION CERTIFICATION FORM.
9. PHASE 8 FINAL STABILIZATION:
   A. UPON ACHIEVING 70% UNIFORM SITE STABILIZATION, AS DEFINED AND APPROVED BY THE CONSERVATION DISTRICT AND PADEP, AND WHICH MAY TAKE WEEKS OR EVEN MONTHS AFTER COMPLETION OF CONSTRUCTION, REMOVE TEMPORARY E&SPC BMPS.
   B. INSPECTION STAGE #5 – NOTIFY ENGINEER AND CONSERVATION DISTRICT AND REFER TO CONSTRUCTION CERTIFICATION FORM.

PROJECT NO.:	4769-1
FILE NAME:	
DATE:	2025-01-03
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

DETAILS - E&SPC

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

DATE & INITIALS	REVISION DESCRIPTION

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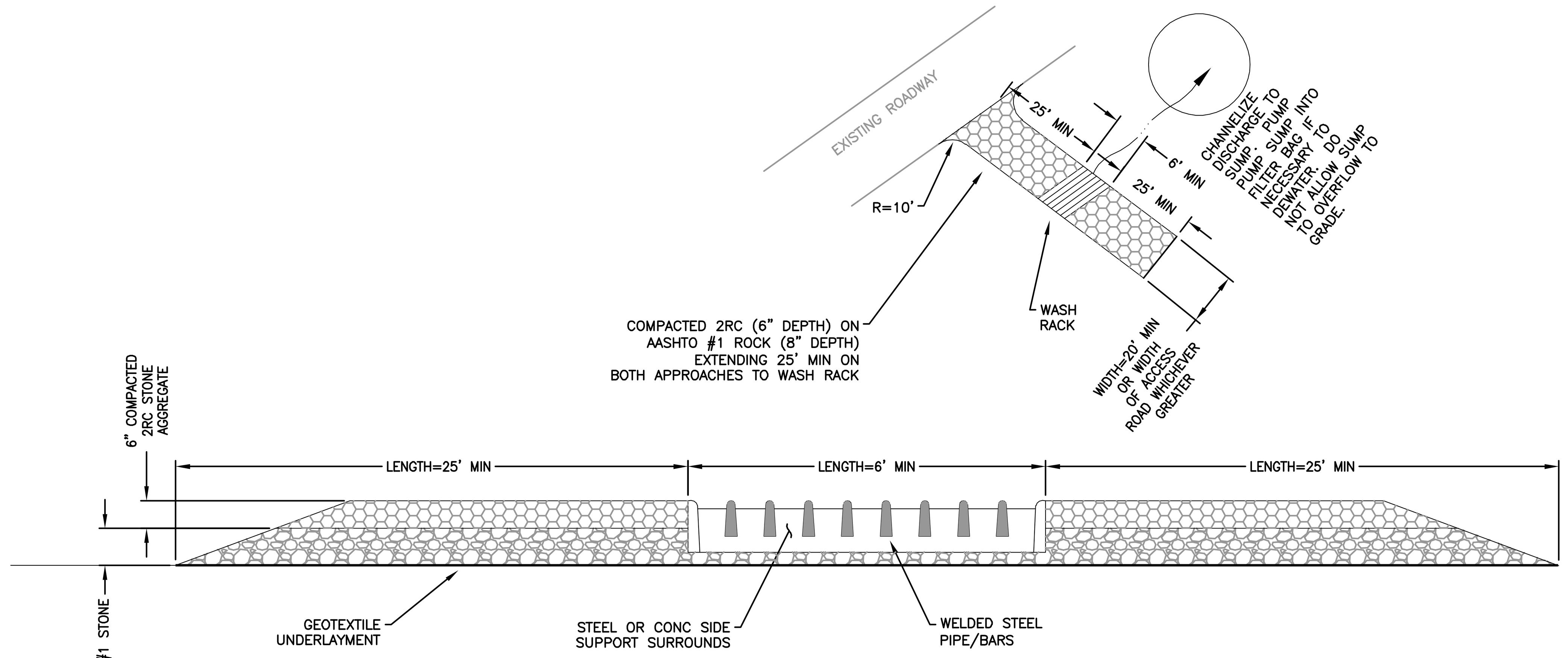
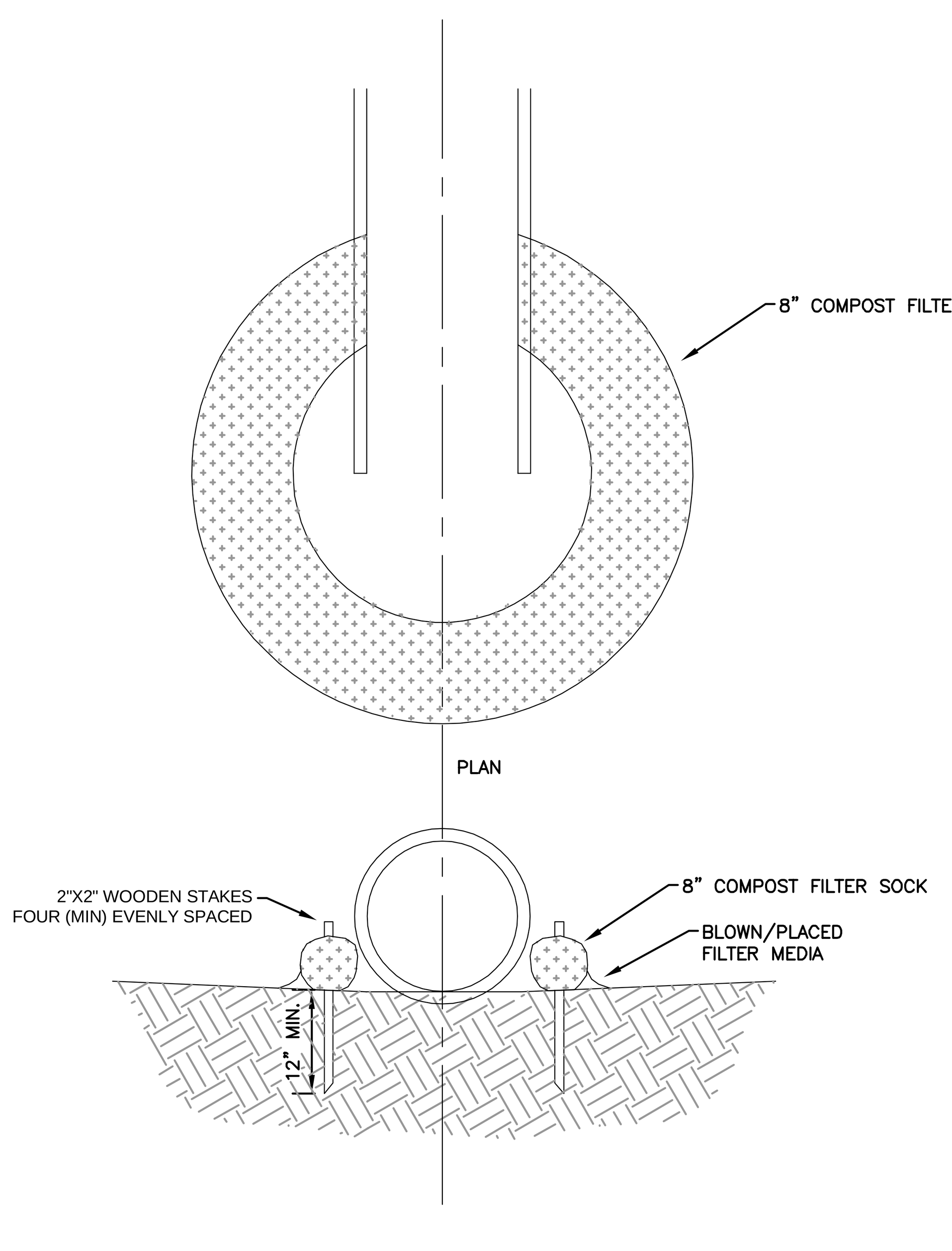


NOTE:
1. WASH RACK SHALL HAVE A MIN WIDTH OF 20', OR THE TOTAL WIDTH OF ACCESS ROAD, WHICHEVER GREATER.
2. WASH RACK SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE ANTICIPATED CONSTRUCTION VEHICLE TRAFFIC.
3. A WATER SUPPLY SHALL BE MADE AVAILABLE TO WASH THE WHEELS OF ALL VEHICLES EXITING THE SITE.
4. ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. DRAIN SPACE UNDER WASH RACK SHALL BE KEPT OPEN AT ALL TIMES. DAMAGE TO THE WASH RACK SHALL BE REPAIRED PRIOR TO FURTHER USE OF THE RACK. ALL SEDIMENT DEPOSITED ON ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

ALTERNATIVE ROCK CONSTRUCTION ENTRANCE WITH WASH RACK AASHTO #1 WITH COMPACTED 2RC ABACT



NOTE:
1. SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
3. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
4. BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
5. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE DRAINAGE STRUCTURE, STAKES SHALL BE REMOVED. THE SOCK SHALL BE REMOVED AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

COMPOST FILTER SOCK INLET PROTECTION CULVERTS

SEEDING TABLE

APPLICATION	% BY WEIGHT	MIN % PURITY	MIN % GERMINATION	MAX % WEED SEED	APPLICATION RATE LBS/1000 SY	APPLICATION RATE LBS/AC	
PENNDOT FORMULA B: MOWABLE LAWN AREAS W. SLOPES 3:1 OR LESS							
PERENNIAL RYEGRASS:	20.0%	98.0%	90.0%	0.15%	4.0		
CREEPING RED OR CHEWING FESCUE:	30.0%	98.0%	85.0%	0.15%	6.0		
KENTUCKY BLUE GRASS MIX:	50.0%	98.0%	80.0%	0.20%	11.0		
FERTILIZER - 10-20-20:						50	
LIME:						2000	
MULCH (CLEAN OAT OR WHEAT STRAW (APPLY W. NON-ASPHALTIC EMULSION PER MANUFACTURER'S RECOMMENDATION):						6000	(3 BALES/1000 SF)
PERMITTED APPLICATION DATES:	MARCH 1 TO OCTOBER 1						
PENNDOT FORMULA C: STEEPER SLOPE AREAS 3:1 OR GREATER W. ROCKY SOIL CONDITIONS							
NOTE: CROWN VETCH COMPONENT IS CONSIDERED AN INVASIVE SPECIES; DO NOT USE UNLESS SPECIFICALLY INDICATED							
CROWN VETCH:	45.0%	99.0%	70.0%	10.0%	4.0		
ANNUAL RYEGRASS:	55.0%	98.0%	90.0%	15.0%	5.0		
FERTILIZER - 10-20-20:						50	
LIME:						2000	
MULCH (CLEAN OAT OR WHEAT STRAW (APPLY W. NON-ASPHALTIC EMULSION PER MANUFACTURER'S RECOMMENDATION):						6000	(3 BALES/1000 SF)
APPLY WITH NON-ASPHALTIC EMULSION PER MANUFACTURER'S RECOMMENDATION							
PERMITTED APPLICATION DATES:	MARCH 1 TO OCTOBER 1						
PENNDOT FORMLA D: DRAINAGE CHANNELS, STEEPER SLOPE AREAS (> 3:1) REQUIRING FREQUENT MOWING							
(GENERALLY USE IN LIUE OF FORMULA C UNLESS ROCKY SOIL CONDITIONS PRESENT)							
TALL FESCUE	70.0%	98.0%	85.0%	0.15%	15.0		
CREEPING RED FESCUE OR CHEWINGS FESCUE	30.0%	98.0%	85.0%	0.15%	6.0		
FERTILIZER - 10-20-20:						50	
LIME:						2000	
MULCH (CLEAN OAT OR WHEAT STRAW (APPLY W. NON-ASPHALTIC EMULSION PER MANUFACTURER'S RECOMMENDATION):						6000	(3 BALES/1000 SF)
PERMITTED APPLICATION DATES:	MARCH 15 TO JUNE 1 / AUGUST 1 TO OCTOBER 15						
PENNDOT FORMULA E: TEMPORARY SEEDING							
ANNUAL RYEGRASS:	100.0%	98.0%	90.0%	0.15%	10.0		
FERTILIZER - 10-20-20:						50	
LIME:						2000	
MULCH (CLEAN OAT OR WHEAT STRAW (APPLY W. NON-ASPHALTIC EMULSION PER MANUFACTURER'S RECOMMENDATION):						60000	(3 BALES/1000 SF)
PERMITTED APPLICATION DATES IN PLANING SEASON:	MARCH 15 TO OCTOBER 15						
PERMITTED APPLICATION DATES OUT OF PLANTING SEASON:	OCTOBER 16 TO MARCH 14.						
	ANCHOR MULCH W. APPROVED EROSION CONTROL NETTING IN OUT OF PLANTING SEASON APPLICATIONS						
PENNDOT FORMULA L: STEEPER SLOPE AREAS 3:1 OR GREATER W. ROCKY SOIL CONDITIONS							
HARD FESCUE	55.0%	98.0%	85.0%	0.15%	13.0		
CREEPING RED FESCUE	35.0%	98.0%	85.0%	0.15%	8.5		
ANNUAL RYEGRASS:	10.0%	98.0%	90.0%	0.15%	2.5		
FERTILIZER - 10-20-20:						50	
LIME:						2000	
MULCH (CLEAN OAT OR WHEAT STRAW (APPLY W. NON-ASPHALTIC EMULSION PER MANUFACTURER'S RECOMMENDATION):						60000	(3 BALES/1000 SF)
PERMITTED APPLICATION DATES:	MARCH 15 TO JUNE 1 / AUGUST 1 TO OCTOBER 15						
ERNST ERNMX-126: FREQUENTLY INUNDATED AREAS SUCH AS STORMWATER BASIN BOTTOM AND INSIDE SLOPES	ALL PER MANUFACTURER'S RECOMMENDATIONS						

SOIL LIMITATIONS TABLE

SOIL NAME	SYMBOL	HSG	SLOPE	DEPTH (FEET)	CUTBANKS CAVE	CORROSIVE TO CONCRETE/STEEL	DROUGHTY	EASILY ERODIBLE	FLOODING	DEPTH TO SATURATED ZONE SEASONAL HIGH	HYDRIC/ HYDRIC INCLUSIONS	LOW STRENGTH / LANDSLIDE PRONE	SLOWPERCOLATION	PIPING	POOR SOURCE OFTOPSOIL	FROST ACTION	SHRINK - SWELL	POTENTIAL SINKHOLE	PONDING	WETNESS
Hagerstown Silty Clay Loam	HcC	B	8%-15%		X	S		X		X	X	X	X	X	X	X	X	X		
Hagerstown Silty Clay Loam	HcD		15%-25%																	
Melvin Silt Loam	Mm				X	S		X	X	X	X	X	X	X	X	X	X	X	X	X

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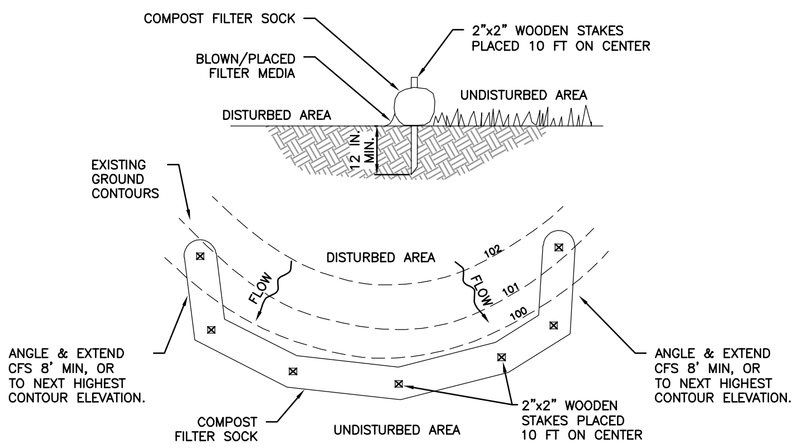


NOTE:
1. SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
5. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
6. BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. 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.
8. COMPOST SHOULD BE A WELL-DECOMPOSED, WEED FREE ORGANIC MATTER DERIVED FROM AGRICULTURE, FOOD, STUMP GRINDING, AND YARD OR WOOD/BARK ORGANIC MATTER SOURCES. THE COMPOST SHOULD BE AEROBICALLY COMPOSTED. THE COMPOST SHOULD POSSESS NO OBJECTIONABLE ODORS AND SHOULD BE REASONABLY FREE (<1% BY DRY WEIGHT) OF MAN-MADE FOREIGN MATTER. THE COMPOST PRODUCT SHOULD NOT RESEMBLE THE RAW MATERIAL FROM WHICH IT WAS DERIVED. WOOD OR BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS ARE NOT ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.
9. THE PHYSICAL PARAMETERS OF THE COMPOST SHOULD COMPLY WITH THE STANDARDS IN TABLE 4.2 WITHIN THE PADEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL, OR WITH PENNDOT PUBLICATION 408.

COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

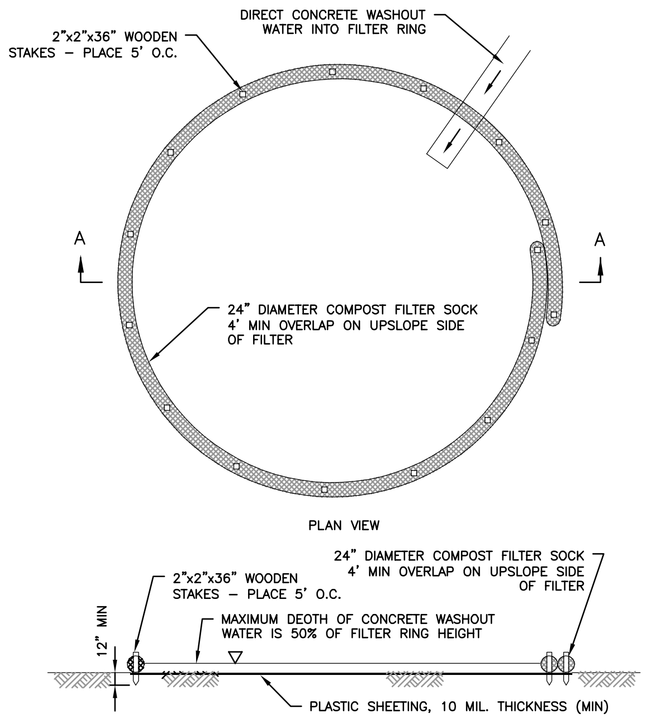
MATERIAL TYPE	3 MIL HDPE	5 MIL HDPE	5 MIL HDPE	MULTIFILIMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTIFILIMENT POLYPROPYLENE (HDMFPP)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	BIO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	1/8"
MESH OPENING		26 PSI	26 PSI	44 PSI	202 PSI
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	23% AT 1000 HOURS	23% AT 1000 HOURS		100% AT 1000 HOURS	100% AT 1000 HOURS
MINIMAL FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	9 MONTHS	1 YEAR	2 YEARS

TWO-PLY SYSTEMS	
INNER CONTAINMENT NETTING	HDPE BIAXIAL NET
	CONTINUOUSLY WOUND
	FUSION-WELDED JUNCTURES
	3/4" X 3/4" MAX APERTURE SIZE
OUTER FILTRATION MESH	COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER & NON-WOVEN FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH
	3/16" MAX APERTURE SIZE
SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS	

COMPOST STANDARDS

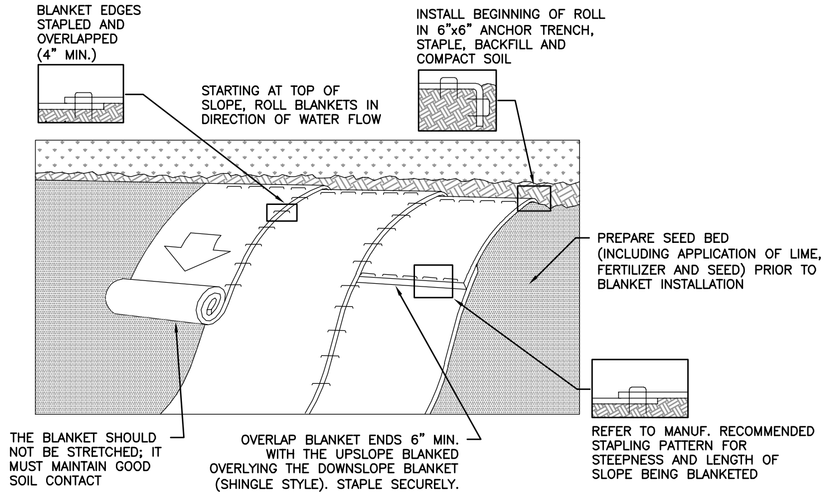
ORGANIC MATTER CONTENT	25%-100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5-8.5
MOISTURE CONTENT	30%-60%
PARTICLE SIZE	30%-50% PASS THROUGH 3/8" SIEVE
SOLUBLE SALT CONCENTRATION	5.0 dS/M (MMHOS/CM) MAX

COMPOST FILTER SOCK



NOTE:
1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE
3. 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR
4. ADDED HEIGHT.
5. IMPERVIOUS PLASTIC SHEETING SHOULD BE PLACED AT THE LOCATION OF THE WASHOUT.
6. STAKE COMPOST SOCKS AS RECOMMENDED BY THE MANUFACTURER AROUND PERIMETER OF THE PLASTIC SHEETING SO AS TO FORM A RING WITH THE ENDS OF THE SOCK LOCATED AT THE UPSLOPE CORNER.
7. ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE PLASTIC SHEETING AT ALL LOCATIONS.
8. WHERE NECESSARY, SOCKS MAY BE STACKED AND STAKED SO AS TO FORM A TRIANGULAR CROSS-SECTION.
9. PLACE AT A CONVENIENT LOCATION FOR ACCESS BY THE CONCRETE TRUCKS, PREFERABLY NEAR THE PLACE WHERE THE CONCRETE IS BEING POURED, BUT FAR ENOUGH FROM OTHER VEHICULAR TRAFFIC TO MINIMIZE THE POTENTIAL FOR ACCIDENTAL DAMAGE OR SPILLS. WHEREVER POSSIBLE, THEY SHOULD BE LOCATED ON SLOPES NOT EXCEEDING A 2% GRADE.
10. THE WASHOUT MUST CLEANED OF ACCUMULATED MATERIAL WHEN FACILITY IS 75% FULL.
11. MATERIAL CLEANED OUT OF DEVICE MUST BE PROPERLY DISPOSED. MATERIAL SUITABLE TO MIX WITH TOPSOIL CAN BE DEPOSITED IN/ON THE SITE'S TOPSOIL STOCKPILES WHICH ARE PROTECTED WITH DOWNSLOPE PERIMETER SEDIMENT BARRIERS. WHEN WASHOUT IS NO LONGER NEEDED THE PLASTIC SHEETING AND USED FILTER SOCK MUST BE TAKEN TO A LANDFILL FOR PROPER DISPOSAL.

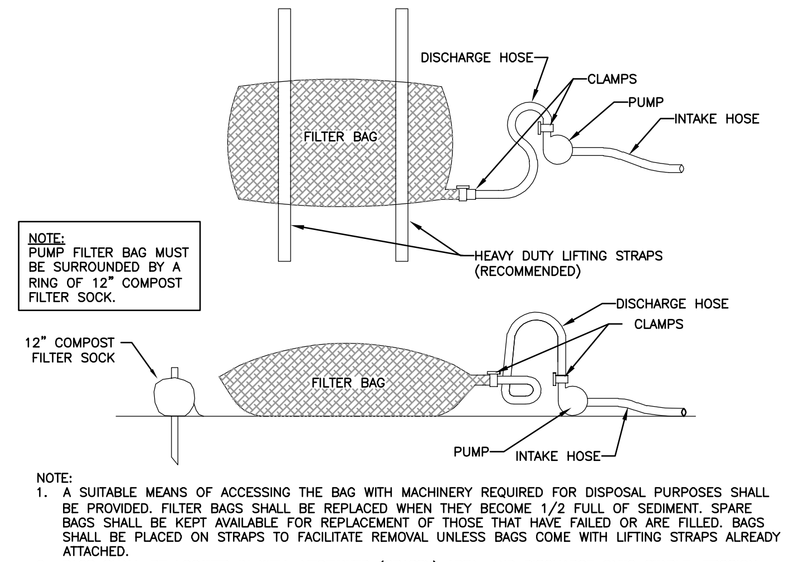
CONCRETE WASHOUT



NOTE:
1. ALL PLAN ILLUSTRATED EROSION CONTROL BLANKET IS NAG S75 UNLESS OTHERWISE NOTED.
2. APPLY EROSION CONTROL BLANKET TO ALL CUTS AND FILLS WITH SLOPES OF 25% OR GREATER.
3. SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.
4. PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
5. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.
6. BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
7. THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
8. BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

EROSION CONTROL BLANKET		
PRODUCT	APPLICATION	SLOPE RANGE
NORTH AMERICA GREEN S75	TEMPORARY	25% TO 33% (3:1)
NORTH AMERICA GREEN S150	TEMPORARY	34% TO 50% (2:1)
NORTH AMERICA GREEN SC150	TEMPORARY	51% TO 100% (1:1)
NORTH AMERICA GREEN SC250	PERMANENT	100% (1:1) OR >

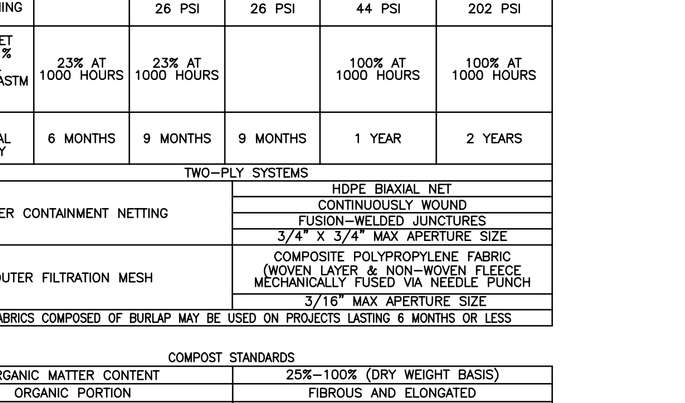
EROSION CONTROL BLANKET SLOPE STABILIZATION



NOTE:
1. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.
2. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
3. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.
4. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
5. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.
6. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.
7. LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:
8. COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS.

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

PUMPED WATER FILTER BAG WIDTH COMPOST FILTER SOCK



NOTE:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

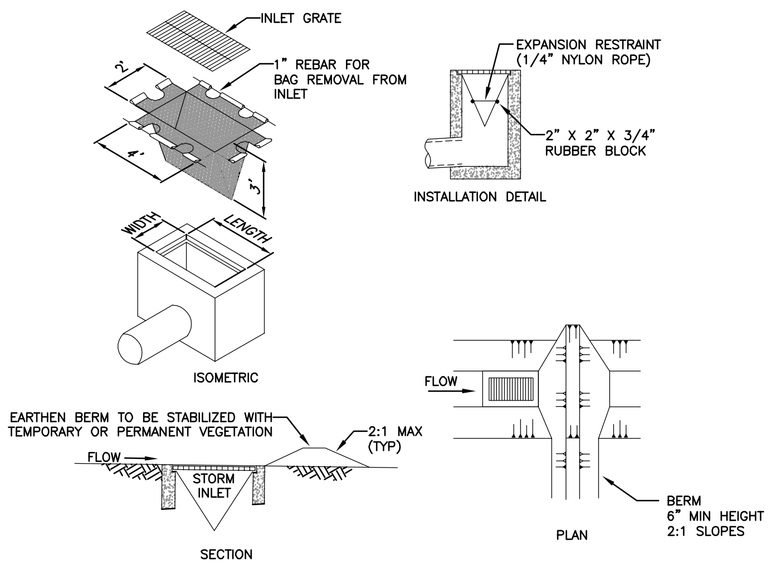
INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
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 TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING 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 SO 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.

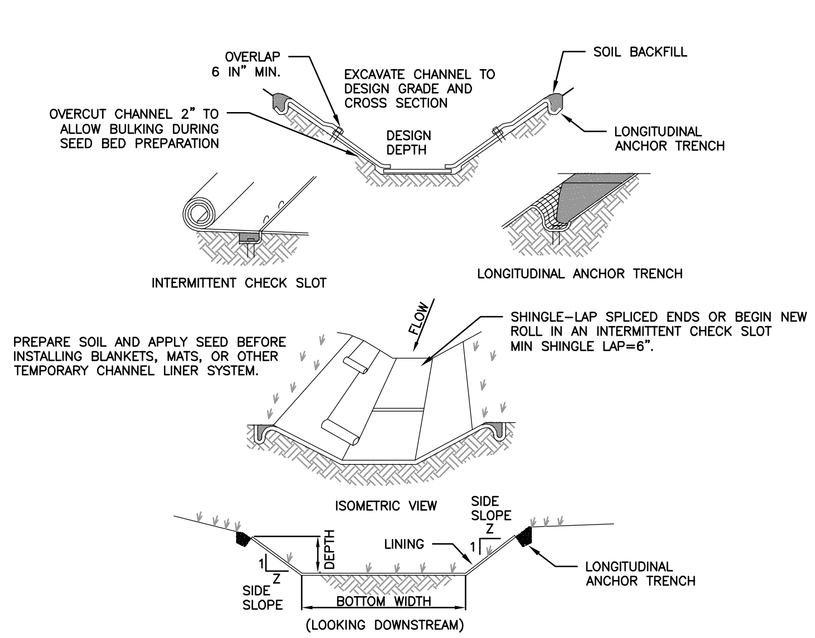
DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

FILTER BAG INLET PROTECTION - TYPE C INLET



NOTE:
1. MAXIMUM DRAINAGE AREA = 1/2 ACRE.
2. INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
3. ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.
4. 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 TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
5. 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 SO 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 ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.
6. DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

FILTER BAG INLET PROTECTION - TYPE M INLET



NOTE:
1. SEE PLAN FOR SYNTHETIC CHANNEL LINING TYPE.
2. SEE PROPRIETARY MANUFACTURER'S LINING INSTRUCTIONS FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION.
3. ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.
4. CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED.
5. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION.
6. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.
7. NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED.
8. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.

CHANNEL LINING

3500 E. College Avenue
Suite 1100
State College, PA 16801
P:(814) 231-2925

KELLER ENGINEERS
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www.keller-engineers.com

DATE & INITIALS	REVISION DESCRIPTION

FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

DETAILS - E&SPC
PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

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PROJECT NO.:	4769-1
FILE NAME:	
DATE:	2025-01-03
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	

PCSM GENERAL:

1. NPDES PERMIT INSPECTION AGENT DESIGNATION: THE NPDES PERMITTEE (OWNER/PERMITTEE) MUST DESIGNATE A RESPONSIBLE INDIVIDUAL, WHO MUST BE, OR WORK UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER, LAND SURVEYOR, LANDSCAPE ARCHITECT, OR GEOLOGIST TO BE ON SITE DURING CONSTRUCTION AT CRITICAL STAGES OF INSTALLATION OF BEST MANAGEMENT PRACTICES ASSOCIATED WITH THE NPDES PERMIT TO WITNESS, INSPECT, AND DOCUMENT INSTALLATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. NPDES PERMIT INSPECTION AGENT AUTHORITY: THE CONTRACTOR SHALL COOPERATE FULLY WITH THE DESIGNATED NPDES PERMIT INSPECTION AGENT.
3. NPDES CO-PERMITTEE REQUIREMENT: THE CONTRACTOR (CONTRACTOR AND ANY SUBCONTRACTORS DIRECTLY INVOLVED WITH ANY EARTH MOVING ACTIVITIES) SHALL BECOME A CO-PERMITTEE (CONTRACTOR/CO-PERMITTEE) WITH THE OWNER/PERMITTEE PRIOR TO COMMENCING SITE CONSTRUCTION ACTIVITIES.
4. PPC PLAN REQUIREMENT: CONTRACTOR/CO-PERMITTEE SHALL PREPARE AND IMPLEMENT A PREPAREDNESS, PREPARATION, AND CONTINGENCY (PPC) PLAN IF CRITICALLY CLASSIFIED MATERIALS INCLUDING FUELS, SOLVENTS, FERTILIZERS, CEMENT, HAZARDOUS SUBSTANCES, ETC. ARE TO BE STORED, UTILIZED, OR TRANSPORTED WITHIN THE PERMIT AREA. THE CONTRACTOR'S PPC PLAN SHALL BE SUBMITTED TO THE OWNER AND ENGINEER.

PCSM NOTIFICATIONS, EASEMENTS AND INSPECTION RIGHTS:

1. AGENCY OVERSIGHT: THE TOWNSHIP, CONSERVATION DISTRICT AND THEIR AGENTS AND ASSIGNS HAVE THE UNIMPEDED RIGHT TO ENTER ONTO AND UPON THE PROPERTY FOR THE PURPOSE OF INSPECTION AND/OR MAINTENANCE OF THE PERMANENT STORMWATER FACILITIES. THE OWNER/PERMITTEE ALSO HEREBY ACKNOWLEDGES THE TOWNSHIP'S AND CONSERVATION DISTRICT'S RIGHT TO ACCESS THE PROJECT SITE UPON NOTICE OR COMPLAINT TO REPAIR AND/OR MAINTAIN THE PERMANENT STORMWATER MANAGEMENT FACILITIES IN ACCORDANCE WITH THIS OWNERSHIP AND MAINTENANCE PLAN. ANY COSTS ASSOCIATED WITH MAINTENANCE AND/OR REPAIR ACTIVITIES CONDUCTED BY THE TOWNSHIP OR CONSERVATION DISTRICT SHALL BE BORNE BY THE OWNER/PERMITTEE.
2. AS-BUILT PLANS MUST BE PROVIDED TO TOWNSHIP PRIOR TO THEIR GRANT OF BUILDING OCCUPANCY CERTIFICATE, OR THEIR RELEASE OF SURETY. SEE FOLLOWING "PCSM PERMANENT BMP RECORD PLANS" NOTES.

PCSM BEST MANAGEMENT PRACTICES (BMPS):

1. STORMWATER MANAGEMENT BASIN SUBGRADE EXCAVATION:
   A. AVOID COMPACTION OF INFILTRATION BASIN SUBGRADE DURING CONSTRUCTION. COMPACTION OF PROPOSED INFILTRATION AREAS DURING CONSTRUCTION WILL LEAD TO BASIN FAILURE TO INFILTRATE. CONTRACTOR MUST USE SPECIAL CONSTRUCTION TECHNIQUES WITHIN THREE FEET OF ANY SPECIFIED INFILTRATION BASIN SUBGRADE ELEVATION AS FOLLOWS:
   - EXCAVATED INFILTRATION BASINS: FOR BASINS REQUIRING UNDERCUT EXCAVATION OR OVERBURDEN REMOVAL TO REACH THE SPECIFIED SUBGRADE ELEVATION, PERFORM INITIAL BASIN EXCAVATION CONSTRUCTION USING STANDARD EXCAVATION EQUIPMENT TO WITHIN THREE FEET OF THE SPECIFIED INFILTRATION BASIN SUBGRADE ELEVATION.
   - SMALL EXCAVATED FACILITIES: COMPLETE FINAL THREE FEET OF EXCAVATION TO SUBGRADE ELEVATION USING EQUIPMENT REMOVED FROM THE BASIN BOTTOM AREA (ASSUMED BOOM REACH OF 40' +/- LIMITS THIS APPROACH TO BASINS WITH A WIDTH OR DIAMETER OF 75' OR LESS). OPERATE FROM THE BASIN EMBANKMENT TOP, OR FROM BEYOND THE BASIN EMBANKMENT AREA. DO NOT RUN EQUIPMENT OF ANY KIND WITHIN THE FINAL BASIN SUBGRADE AREA.
   - LARGE EXCAVATED FACILITIES: COMPLETE FINAL THREE FEET OF EXCAVATION TO SUBGRADE ELEVATION USING MINIATURE RUBBER-TRACKED EXCAVATION EQUIPMENT WITH A WEIGHT CLASSIFICATION OF TWO TONS OR LESS, WORKING FROM ONE END OF BASIN TO THE OTHER AND AVOIDING RUNNING EQUIPMENT OVER EXCAVATED SUBGRADE.
   - EMBANKMENT INFILTRATION BASINS: FOR BASINS TO BE CONSTRUCTED AT OR ABOVE EXISTING GRADE LINES, DO NOT OPERATE EQUIPMENT WITHIN BASIN SUBGRADE AREA. CONSTRUCT ALL REQUIRED EMBANKMENT WITH EQUIPMENT REMOVED FROM BASIN AREA.

   B. IN EXTRAORDINARY CIRCUMSTANCES CONTRACTOR SHALL BE PERMITTED TO CONSTRUCT SINGLE PATH IN/SINGLE PATH OUT CAUSEWAYS INTO THE BASIN BOTTOM TO ACCESS REQUIRED EXCAVATION AREAS WITH EQUIPMENT. THIS WILL ONLY BE DONE AT THE DIRECTION OF THE ENGINEER, AND THE MINIMUM DEPTH OF SUCH CAUSEWAYS ABOVE BASIN SUBGRADE ELEVATION SHALL BE 36".
2. STORMWATER MANAGEMENT BASIN SUBGRADE PREPARATION:
   A. THE PROJECT SOIL SCIENTIST MUST INSPECT THE EXPOSED SUBGRADE AND PROVIDE MITIGATION RECOMMENDATIONS IF APPROPRIATE INCLUDING SCARIFICATION OR UNDERCUT AND REMOVAL OF UNSUITABLE MATERIALS SUCH AS CLAY TO A MORE SUITABLE INFILTRATIVE ZONE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THIS ACTIVITY WITH PROJECT SOIL SCIENTIST.
   B. REMOVE ALL TOPSOIL AND LARGE ROCKS FROM BASIN SUBGRADE AREA.
   C. BASIN SUBGRADE SOIL SHOULD BE IN A LOOSE FRIABLE CONDITION WITH NO EROSION RILLS OR WASHOUTS IN THE SUBGRADE SURFACE EXCEEDING 3" IN DEPTH.
   D. IF THE BASIN SUBGRADE SOIL IS NOT IN THIS LOOSE, FRIABLE CONDITION DUE TO NATURAL CONDITIONS OR DUE TO OVER-COMPACTION FROM CONSTRUCTION EQUIPMENT, THEN CONTRACTOR MUST PERFORM SCARIFICATION, RIPPING, OR SUBSOILING OF BASIN SUBGRADE AS DIRECTED BY PROJECT SOIL SCIENTIST.
   E. SUBSOILED AREAS MUST BE LOOSENED TO LESS THAN 200 PSI RESISTANCE TO A DEPTH OF 20" BELOW BASIN SUBGRADE WITH A SOLID SHANK RIPPER.
   F. EXCEPTIONS TO SUBSOILING REQUIREMENTS ARE AREAS WITHIN DRIP LINES OF TREES, OVER EXISTING OR PROPOSED UTILITY INSTALLATIONS, AND WHERE COMPACTION IS DESIRED BY DESIGN FOR STRUCTURES OR SLOPES.
3. STORMWATER MANAGEMENT BASIN PIPE UNDERDRAIN EXCAVATION AND INSTALLATION:
   A. EXCAVATE BASIN PIPE UNDERDRAIN TRENCH TO PRESCRIBED DEPTHS BASED ON REQUIRED PIPE SLOPE. NOTE THAT PIPE UNDERDRAIN SLOPE REQUIREMENTS MAY DICTATE PIPE UNDERDRAIN TRENCH DEPTH BENEATH BASIN SUBGRADE FROM ONE END OF BASIN TO THE OTHER.
   B. INSTALL REQUIRED TRENCH BEDDING.
   C. INSTALL PERFORATED AND SOLID UNDERDRAIN PIPE IN ACCORDANCE WITH PLAN.
   D. BACKFILL UNDERDRAIN PIPE WITH GRADED STONE PER PLAN TO PRESCRIBED DEPTH.
4. STORMWATER MANAGEMENT BASIN FILTER SOIL PREPARATION:
   A. STORMWATER MANAGEMENT BASIN FILTER SOIL IS UTILIZED TO:
   - PROTECT AND CUSHION THE INFILTRATION BASIN SUBGRADE DURING INITIAL BASIN CONSTRUCTION.
   - TO PROTECT THE BASIN SUBGRADE AGAINST SEDIMENT DEPOSITION AND CLOGGING DURING TEMPORARY OPERATION AS A SEDIMENT FACILITY.
   - TO PROVIDE A SEPARATION AND FILTER LAYER WHEN BASIN SUBGRADE IS ON OR WITHIN 24" OF ROCK.
   - TO PROVIDE A SEPARATION AND FILTER LAYER WHEN BASIN SUBGRADE IS ON OR WITHIN 24" OF SEASONAL HIGH WATER TABLE.
   - TO PROMOTE FILTRATION AND FOSTER PLANT GROWTH

   B. STORMWATER MANAGEMENT BASIN FILTER SOIL MAY CONSIST OF IN-SITU TOPSOILS IN UNALTERED FORM, OR AN AMENDED SOIL COMPOSITION AS DETERMINED BY PROJECT SOIL SCIENTIST.
   C. SECURE APPROVAL OF PROJECT SOIL SCIENTIST TO UTILIZE IN-SITU TOPSOILS FOR STORMWATER MANAGEMENT BASIN FILTER SOIL.
   D. OTHERWISE, IF IN-SITU TOPSOIL IS NOT FOUND TO BE SUITABLE FOR THIS USE, PREPARE AMENDED SOIL COMPOSITION UNDER DIRECTION OF PROJECT SOIL SCIENTIST.
   E. IN GENERAL, AN AMENDED SOIL COMPOSITION IS TO POTENTIALLY CONSIST OF:
   - APPROXIMATELY 40% GOOD QUALITY TOPSOIL. UNSATISFACTORY TOPSOIL MATERIALS ARE DEFINED AS THOSE CONTAINING HIGH CLAY COMPOSITION, TRASH, DEBRIS, ROCKS, OR FROZEN MATERIAL.
   - APPROXIMATELY 30% GOOD QUALITY COMPOST. THE PURPOSE OF THE COMPOST COMPONENT IS TO INCREASE ORGANIC CONTENT OF THE AMENDED SOIL MIXTURE TO PROMOTE PLANT MATERIAL GROWTH UPON THE BASIN BOTTOM. DO NOT USE BIO-SOLID COMPOST MIXTURE SOURCES; DO NOT USE COMPOST SOURCES WITH HIGH CLAY CONTENT OR PARTICULATES.
   - APPROXIMATELY 30% CLEAN WASHED SAND. IF REQUIRED, THE PURPOSE OF THE SAND COMPONENT IS TO LOOSEN THE OVERALL AMENDED SOIL MIX TO PROMOTE INFILTRATION. HOWEVER, EXCESSIVE SAND COMPONENT MAY INHIBIT PLANT GROWTH SO ONLY APPLY AS DIRECTED BY PROJECT SOIL SCIENTIST.
   - GYPSUM FLOCCULATION AGENT AT AN APPROXIMATE APPLICATION RATE OF 2.0 TONS PER ACRE IF DIRECTED BY PROJECT SOIL SCIENTIST. GYPSUM ACTS AS A SOIL BUILDING AGENT TO BIND FINE SOIL PARTICLES AND PROMOTE INFILTRATION.
   - LIME ACID REDUCTION AGENT AT AN APPROXIMATE APPLICATION RATE OF 2.0 TONS PER ACRE IF DIRECTED BY PROJECT SOIL SCIENTIST. LIME ACTS TO RAISE SOIL PH LEVELS TO PROMOTE PLANT GROWTH.
   - ¼" CLEAN WASHED ANTI-SKID MATERIAL IF REQUIRED TO PROVIDE LEVELING AGAINST EXPOSED ROCK SUBGRADE AND TO INHIBIT SINKHOLE FORMATION

   F. THE ABOVE MIX SPECIFICATION IS BROAD-BASED AND GENERAL. ACTUAL AMENDED SOIL COMPOSITIONS CAN VARY DRAMATICALLY FROM SITE TO SITE BASED ON AVAILABLE MATERIAL QUALITY AND CONDITION AND THEREFORE MUST BE THOROUGHLY VETTED AND PRE-TESTED BY PROJECT SOIL SCIENTIST RELATIVE TO FOREIGN BORROW MATERIAL SOURCE AND QUALITY, QUALITY OF ON-SITE MATERIALS, AND RESULTANT PERMEABILITY. VETTING TO CONSIST OF PROJECT SOIL SCIENTIST EVALUATION AND APPROVAL OF PROPOSED OFFSITE MATERIAL SOURCE LOCATIONS BEFORE DELIVERY TO SITE. PRE-TESTING TO CONSIST OF PREPARATION OF TRIAL MIXES AT SITE AT PROJECT SOIL SCIENTIST'S DIRECTION FOR CONFIRMATORY PERMEABILITY TESTING.
   G. ONCE AMENDED SOIL MIX DESIGN HAS BEEN APPROVED BY PROJECT SOIL SCIENTIST AND OWNER, STOCK SUFFICIENT QUANTITIES OF ALL IMPORT INGREDIENTS ON SITE. THOROUGHLY AND PROPERLY MIX COMPONENTS BEFORE PLACEMENT IN BASIN BOTTOM.
5. STORMWATER MANAGEMENT BASIN FILTER SOIL PLACEMENT:
   A. PERFORM STORMWATER MANAGEMENT FILTER SOIL PLACEMENT DURING DRY WEATHER AND EARLY ENOUGH IN THE YEAR TO PERMIT ESTABLISHMENT OF VEGETATION BEFORE ONSET OF WINTER.
   B. THE PROJECT GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING STORMWATER MANAGEMENT BASIN FILTER SOIL PREPARATION AND PLACEMENT TO PROVIDE QUALITY ASSURANCE AND CONTROL.
   C. FILTER SOIL SHALL BE PLACED FROM THE SIDES OF THE BASIN AREA, OR FROM CONSTRUCTED EQUIPMENT ACCESS LANES CONSISTING OF A MINIMUM 36" DEEP EARTH CUSHION TO CONFINE EQUIPMENT TO SINGULAR PATHS IN AND OUT OF THE BASIN AREA.
   D. PLACE FILTER SOIL LOOSE IN 8" LIFTS ON BASIN SUBGRADE, STARTING AT LOWEST END OF BASIN. DO NOT PLACE FILTER SOIL IN STANDING WATER. DO NOT COMPACT FILTER SOIL. DO NOT RUN EQUIPMENT ON COMPLETED STORMWATER MANAGEMENT BASIN BOTTOM.
   E. TILL TO A DEPTH OF 6-8". IF THE SOIL IS TOO DENSE FOR A TILLER, THE SOIL SHOULD FIRST BE BROKEN UP INTO LARGE AGGREGATES USING A SOIL RIPPER.
   F. DISTRIBUTE FILTER SOIL EVENLY OVER THE BASIN SUBGRADE AREA. FOR SMALL AREAS, STORMWATER MANAGEMENT BASIN FILTER SOIL MAY BE SPREAD BY HAND WITH A SHOVEL AND RAKED EVENLY OVER THE SOIL. FOR LARGER AREAS, USE A TRACTOR-MOUNTED SPREADER OR OTHER SIMILAR DEVICE UPON CONSTRUCTED EQUIPMENT ACCESS LANES.
   G. SPREAD LIME AND NUTRIENTS AS INDICATED BY SOIL TESTING OR AS DIRECTED BY PROJECT SOIL SCIENTIST.
   H. WATER THOROUGHLY AND ALLOW FILTER SOIL TO SETTLE FOR ONE WEEK. RE-APPLY ADDITIONAL FILTER SOIL TO RE-ESTABLISH FINAL BASIN BOTTOM IF SETTLEMENT OCCURS.
   I. RAKE BASIN BOTTOM TO A UNIFORM SMOOTH SURFACE.
   J. AFTER PLACEMENT CONFIRMATION TESTING SHALL BE PERFORMED BY PROJECT SOIL SCIENTIST AT A MINIMUM OF TWO LOCATIONS USING A METHOD SPECIFIED IN THE PA BMP MANUAL.
   K. IF THE DESIRED INFILTRATION RATE RANGE IS NOT MET, THEN THE CONTRACTOR SHALL MODIFY THE STORMWATER MANAGEMENT BASIN FILTER SOIL LAYER AS REQUIRED IN CONSULTATION WITH PROJECT SOIL SCIENTIST TO ACHIEVE THE SPECIFIED INFILTRATION RATE RANGE.
6. STORMWATER MANAGEMENT BASIN FINAL SEEDING, MULCHING, PLANTING
   A. APPLY SEED AND MULCH IMMEDIATELY AFTER SETTLEMENT QUARANTINE.
   B. NOTHING SHALL BE PLANTED WITHIN THE STORMWATER MANAGEMENT BASIN THAT WILL IMPEDE THE FLOW OF NATURAL DRAINAGE WITH THE EXCEPTION OF THE PLANTINGS ASSOCIATED WITH THE PLANS.
   C. NO STRUCTURES, TREES, OR SHRUBS SHALL BE PLACED OR PLANTED WITHIN THE STORMWATER MANAGEMENT BASIN UNLESS AUTHORIZED BY THE TOWNSHIP.
7. STORMWATER PIPE:
   A. HDPE:
   - ALL HDPE TO BE CLASS I CORRUGATED DOUBLE WALL SMOOTH INTERIOR HIGH DENSITY POLYETHYLENE WITH BELL END SLIP ON TYPE JOINT FITTINGS – ADS N-12 IB (INTEGRAL BELL) OR SIMILAR.
   - ALL HDPE TO HAVE WATER-TIGHT DOUBLE GASKET JOINTS UNLESS OTHERWISE INDICATED ON DRAWINGS (SOIL TIGHT NOT ACCEPTABLE – MUST BE WATER-TIGHT.

PCSM STAGING OF CONSTRUCTION ACTIVITIES:

1. ALL PCSM FACILITIES ARE ADDRESSED WITHIN THE EROSION & SEDIMENTATION CONTROL PLAN STAGING OF EARTHMOVING ACTIVITIES – SEE THAT PLAN.

PCSM PERMANENT BMP OPERATION, MAINTENANCE & INSPECTION:

1. OPERATION & MAINTENANCE DURING CONSTRUCTION – CONTRACTOR
   A. RESPONSIBLE PARTY: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF ALL PERMANENT STORMWATER MANAGEMENT BEST MANAGEMENT PRACTICES DETAILED HEREIN UNTIL COMPLETION OF CONSTRUCTION AND RELEASE OF CO-PERMITTEE STATUS AND OBLIGATION.
   B. INSPECTION SCHEDULE: THE CONTRACTOR SHALL INSPECT THE STORMWATER MANAGEMENT BEST MANAGEMENT PRACTICES ON A WEEKLY BASIS AND AFTER EACH SIGNIFICANT RAINFALL EVENT OF 0.25" OR MORE UNTIL COMPLETION OF CONSTRUCTION.
   C. INSPECTION & MAINTENANCE RECORDS AND NOTIFICATIONS: THE CONTRACTOR MUST MAINTAIN A RECORD OF ALL INSPECTIONS, REPAIRS, AND MAINTENANCE ACTIVITIES ASSOCIATED WITH THE PERMANENT STORMWATER MANAGEMENT BEST MANAGEMENT PRACTICES HEREIN DURING CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER, COUNTY CONSERVATION DISTRICT, AND TOWNSHIP PRIOR TO INITIATING ANY MAJOR REPAIR ACTIVITIES.
   D. BMP O&M:
      1) STORMWATER INLETS AND CONVEYANCE PIPES: REMOVE ACCUMULATED DEBRIS AND SEDIMENT AS REQUIRED TO MAINTAIN SYSTEM CAPACITY. CLEAN ALL COLLECTION AND CONVEYANCE FACILITIES PRIOR TO OWNER ACCEPTANCE.
      2) SINKHOLE REPAIR: IF A SINKHOLE DEVELOPS WITHIN THE STORMWATER MANAGEMENT BASIN OR THE GENERAL PROJECT VICINITY, OR IF A SINKHOLE DEVELOPS DOWNSTREAM OF THE PROJECT AREA DUE TO FAILURE OF ON-SITE STORMWATER MANAGEMENT FACILITIES AND/OR IMPROPER MAINTENANCE OF SUCH FACILITIES, THE CONTRACTOR SHALL SECURE THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER TO MAKE REQUIRED SINKHOLE REPAIRS. THE CONSERVATION DISTRICT AND TOWNSHIP ARE TO BE IMMEDIATELY NOTIFIED OF THE PRESENCE OF ANY SINKHOLE FORMATION.
      3) STORMWATER MANAGEMENT BASIN: INSPECT STORMWATER MANAGEMENT BASIN AFTER EACH APPRECIABLE RAINFALL EVENT, INCLUDING EMBANKMENT CONDITION, ORIFICE BLOCKAGE, EVIDENCE OF SINKHOLE FORMATION, ETC. REMOVE ANY ACCUMULATED DEBRIS INCLUDING SILT, LEAF LITTER, TRASH, ETC, FROM BASIN BOTTOM AND FROM DEBRIS SCREENS, ETC. NOTIFY ENGINEER OF ANY EVIDENCE OF ADVERSE EROSION DAMAGE SO THAT INSPECTIONS AND CORRECTIVE ACTIONS CAN BE TAKEN.
   E. INSPECTION & MAINTENANCE RECORDS AND NOTIFICATIONS: THE CONTRACTOR MUST MAINTAIN A RECORD OF ALL INSPECTIONS, REPAIRS, AND MAINTENANCE ACTIVITIES ASSOCIATED WITH THE PERMANENT STORMWATER MANAGEMENT BEST MANAGEMENT PRACTICES HEREIN DURING CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER, COUNTY CONSERVATION DISTRICT, AND TOWNSHIP PRIOR TO INITIATING ANY MAJOR REPAIR ACTIVITIES.
2. PERMANENT OPERATION & MAINTENANCE AFTER CONSTRUCTION – OWNER:
   A. RESPONSIBLE PARTY: THE OWNER SHALL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT FACILITIES ENUMERATED HEREIN AFTER COMPLETION OF CONSTRUCTION FOR THE LIFE OF THE BEST MANAGEMENT PRACTICE.
   B. COVENANT APPURTENANT: THE OWNER RESPONSIBILITY FOR LONG-TERM OPERATION AND MAINTENANCE OF THE POST CONSTRUCTION STORMWATER MANAGEMENT FACILITIES DETAILED HEREIN IS HEREBY COVENANTED APPURTENANT TO THE UNDERLYING PROPERTY.
   C. INSPECTION SCHEDULE: THE OWNER SHALL INSPECT THE STORMWATER MANAGEMENT FACILITIES ON AN ANNUAL BASIS AND AFTER EACH MAJOR STORM EVENT.
   D. OWNER INSPECTION & MAINTENANCE RECORDS AND NOTIFICATIONS: THE OWNER MUST MAINTAIN A RECORD OF ALL INSPECTIONS, REPAIRS, AND MAINTENANCE ACTIVITIES ASSOCIATED WITH THE PERMANENT STORMWATER MANAGEMENT FACILITIES HEREIN AT THE PROJECT SITE. THE OWNER SHALL SUBMIT A COPY OF SUCH INSPECTION RECORDS TO THE MUNICIPALITY ANNUALLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT. THE OWNER MUST NOTIFY THE CONSERVATION DISTRICT AND THE TOWNSHIP PRIOR TO INITIATING ANY MAJOR REPAIR ACTIVITIES.
   E. MUNICIPALITY MAINTENANCE INSPECTIONS: MAINTENANCE INSPECTIONS MAY BE PERFORMED BY THE TOWNSHIP TO ENSURE PROPER FUNCTIONING OF ALL STORMWATER MANAGEMENT FACILITIES. THESE INSPECTIONS MAY, AT A MINIMUM, BE PERFORMED ANNUALLY AND/OR FOLLOWING MAJOR STORM EVENTS. IF THE TOWNSHIP DETERMINES AT ANY TIME THAT ANY PERMANENT STORMWATER FACILITY HAS BEEN ELIMINATED, ALTERED, OR IMPROPERLY MAINTAINED, THE OWNER OF THE PROPERTY SHALL BE ADVISED OF CORRECTIVE MEASURES REQUIRED AND GIVEN THREE-DAYS TO INITIATE APPROPRIATE ACTION IN ACCORDANCE WITH A TIME SCHEDULE DICTATED BY THE TOWNSHIP. IF SUCH ACTION IS NOT TAKEN BY THE PROPERTY OWNER, THE TOWNSHIP MAY CAUSE THE WORK TO BE DONE AND BACKCHARGE ALL COSTS TO THE PROPERTY OWNER.
   F. BMP OPERATION & MAINTENANCE:
      1) STORMWATER INLETS AND CONVEYANCE PIPES: REMOVE ACCUMULATED DEBRIS AND SEDIMENT AS REQUIRED TO MAINTAIN SYSTEM CAPACITY. CLEAN ALL COLLECTION AND CONVEYANCE FACILITIES PRIOR TO OWNER ACCEPTANCE.
      2) SINKHOLE REPAIR: IF A SINKHOLE DEVELOPS WITHIN THE STORMWATER MANAGEMENT BASIN OR THE GENERAL PROJECT VICINITY, OR IF A SINKHOLE DEVELOPS DOWNSTREAM OF THE PROJECT AREA DUE TO FAILURE OF ON-SITE STORMWATER MANAGEMENT FACILITIES AND/OR IMPROPER MAINTENANCE OF SUCH FACILITIES, THE OWNER SHALL SECURE THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER TO MAKE REQUIRED SINKHOLE REPAIRS. THE CONSERVATION DISTRICT AND TOWNSHIP ARE TO BE IMMEDIATELY NOTIFIED OF THE PRESENCE OF ANY SINKHOLE FORMATION.
      3) STORMWATER MANAGEMENT BASIN: INSPECT STORMWATER MANAGEMENT BASIN AFTER EACH APPRECIABLE RAINFALL EVENT, INCLUDING EMBANKMENT CONDITION, ORIFICE BLOCKAGE, EVIDENCE OF SINKHOLE FORMATION, ETC. REMOVE ANY ACCUMULATED DEBRIS INCLUDING SILT, LEAF LITTER, TRASH, ETC, FROM BASIN BOTTOM AND FROM DEBRIS SCREENS, ETC. NOTIFY ENGINEER OF ANY EVIDENCE OF ADVERSE EROSION DAMAGE SO THAT INSPECTIONS AND CORRECTIVE ACTIONS CAN BE TAKEN.

PCSM CONSTRUCTION INSPECTION SCHEDULE:

1. A CONDITION OF APPROVAL OF NPDES PERMIT NOTICE OF TERMINATION IS THE SUBMISSION OF A FINAL PROJECT CERTIFICATION STATEMENT BY THE OWNER'S DESIGNATED NPDES PERMIT INSPECTION AGENT. ABSENT THIS CERTIFICATION STATEMENT, THE PERMIT WILL NOT BE CLOSED OUT BY THE PADEP, AND THE CONTRACTOR'S OBLIGATIONS WILL NOT BE COMPLETE. IN ORDER TO PREPARE SUCH A CERTIFICATION STATEMENT, THE OWNER'S DESIGNATED NPDES PERMIT INSPECTION AGENT MUST PERFORM A FINAL PROJECT INSPECTION AS WELL AS INCREMENTAL INSPECTIONS OF ANY AND ALL COVERED WORK ASSOCIATED WITH ANY POST CONSTRUCTION STORMWATER MANAGEMENT PERMANENT BEST MANAGEMENT PRACTICES. THIS DOES NOT CONSTITUTE A FULL-TIME RESIDENT INSPECTION EFFORT, AND THEREFORE THE CONTRACTOR IS HEREBY ADVISED THAT HE MUST FULLY COORDINATE HIS WORK TO MAKE PROPER NOTIFICATIONS AND TIMELY REQUESTS FOR INSPECTION AT EACH CRITICAL JUNCTURE OF BMP INSTALLATION AS OUTLINED BELOW. IF SUCH NOTIFICATIONS AND REQUESTS FOR INSPECTIONS ARE NOT MADE IN A TIMELY FASHION, CONTRACTOR MAY BE REQUIRED TO RE-EXCAVATE ANY BMP COVERED WORK SO THAT PROPER DOCUMENTATION CAN BE MADE.
2. CRITICAL INSTALLATION INSPECTIONS SHALL BE REQUIRED AND WILL BE PERFORMED BY OWNER DESIGNATED NPDES PERMIT INSPECTION AGENT DURING THE COURSE OF PROJECT CONSTRUCTION INSTALLATION.
3. CONTRACTOR SHALL COOPERATE FULLY WITH OWNER DESIGNATED NPDES PERMIT INSPECTION AGENT IN PROVIDING PROPER AND TIMELY NOTIFICATIONS ALONG WITH REQUESTS FOR INSPECTION AT ALL CRITICAL JUNCTURES OF CONSTRUCTION SEQUENCE BEFORE WORK IS COVERED OR COMPLETED.
4. CRITICAL INSTALLATION INSPECTIONS SHALL BE PERFORMED TO DETERMINE GENERAL COMPLIANCE WITH DESIGN INTENT, AND TO PROPERLY DOCUMENT COVERED WORK INCLUDING FIELD MEASUREMENTS, PHOTO DOCUMENTATION, COLLECTION OF PCSM BMP MATERIAL CERTIFICATIONS AND DELIVERY TICKETS, AND PREPARATION OF FIELD INSPECTION REPORTS.
5. CRITICAL INSTALLATION INSPECTIONS WILL BE PERFORMED USING VISUAL INSPECTION TECHNIQUES AND HAND MEASUREMENTS, AND WILL NOT CONSTITUTE INCREMENTAL PRECISE AS-BUILT INSTRUMENT SURVEYS. CONTRACTOR IS NOT RELIEVED OF HIS OBLIGATION TO CONSTRUCT ALL PCSM BMPS IN FULL COMPLIANCE WITH DESIGN PLANS USING INSTRUMENT SURVEY CONTROL TECHNIQUES EVERY STEP OF THE WAY. CRITICAL INSPECTIONS DO NOT CONSTITUTE AS-BUILT CONFIRMATION OF COMPLETED WORK, OR ACCEPTANCE THEREOF. THEREFORE, ANY DEVIATIONS AND DISCREPANCIES, IF ANY EXIST, MAY NOT BE IDENTIFIED UNTIL FINAL AS-BUILT SURVEY AND PLAN PREPARATION IS COMPLETE – THE CONTRACTOR REMAINS RESPONSIBLE TO CONSTRUCT ALL WORK IN COMPLETE ACCORDANCE WITH THE PLANS.
6. CONTRACTOR WILL NOTIFY OWNER DESIGNATED INSPECTION AGENT AT THE CRITICAL PCSM PLAN STAGES DETAILED BELOW SO THAT AN INSPECTION CAN BE MADE, AND WILL STAND-DOWN UNTIL SUCH INSPECTION IS COMPLETED.

CRITICAL PCSM PLAN STAGES:

1. ALL CRITICAL PCSM PLAN STAGES ARE DEFINED WITHIN THE EROSION & SEDIMENTATION CONTROL PLAN STAGING OF EARTHMOVING ACTIVITIES – SEE THAT PLAN.

PCSM PERMANENT BMP RECORD PLANS:

1. POST CONSTRUCTION STORMWATER MANAGEMENT BMP STRUCTURES ARE SUBJECT TO DESIGN INTENT CONFIRMATION VIA AS-BUILT SURVEY AND PLAN PREPARATION.
2. THE OWNER SHALL CONDUCT AN AS-BUILT SURVEY AND PLAN PREPARATION AT THE COMPLETION OF CONSTRUCTION OF ALL STRUCTURAL BMPS TO DETERMINE IF ORIGINAL DESIGN INTENT HAS BEEN MET.
3. IF SIGNIFICANT DISCREPANCIES OR DEVIATIONS ARE DETECTED, THE OWNER SHALL NOTIFY THE CONTRACTOR TO MAKE REQUIRED REPAIRS, CORRECTIONS, OR ADJUSTMENTS AT NO ADDITIONAL COST TO OWNER. UPON COMPLETION, A SECOND AS-BUILT SURVEY WILL BE PERFORMED BY THE OWNER TO CONFIRM ACCURACY.
4. UPON CONFIRMATION OF ACCURACY, AND UPON COMPLETION OF ALL CONSTRUCTION, THE OWNER WILL RELEASE THE CONTRACTOR FROM FURTHER OBLIGATION, AND THE CO-PERMITTEE STATUS WILL BE ELIMINATED.

NPDES PERMIT NOTICE OF TERMINATION:

1. THE OWNER MUST SUBMIT A NOTICE OF TERMINATION TO THE CONSERVATION DISTRICT AND PADEP UPON COMPLETION OF ALL CONSTRUCTION ACTIVITIES.
2. NOTICE OF TERMINATION MUST INCLUDE ALL REQUIRED ASSOCIATED DOCUMENTATION, INCLUDING THE FOLLOWING:
   A. NOTICE OF TERMINATION FORM.
   B. FINAL PROJECT CERTIFICATION STATEMENT PREPARED BY OWNER/PERMITTEE'S DESIGNATED INSPECTION AGENT.
   C. FINAL PROJECT PERMIT REPORT INCLUDING STRUCTURAL BMP AS-BUILT PLANS, O&M INSPECTION REPORTS AND DOCUMENTATION, CONSTRUCTION PHOTOGRAPHS, AND COMPLIANCE CERTIFICATION.

PROJECT NO.:	4769-1
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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

DETAILS - PCSM

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

DATE & INITIALS	REVISION DESCRIPTION

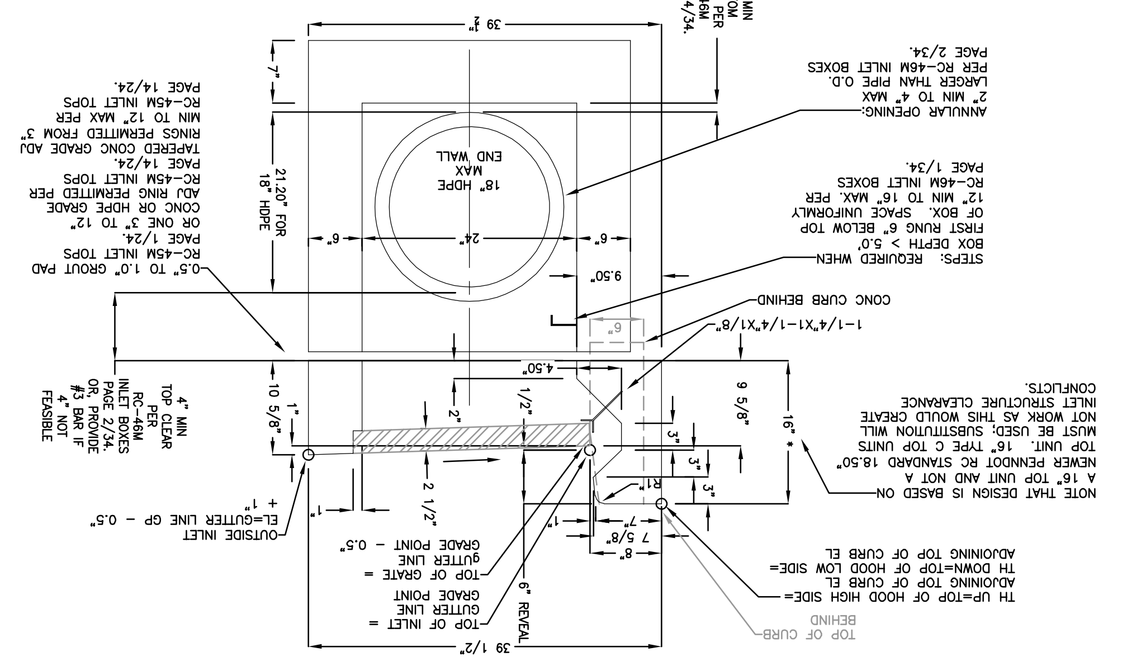
KELLER ENGINEERS
CIVIL • STRUCTURAL • SURVEY
www.keller-engineers.com
3500 E. College Avenue
Suite 1100
State College, PA 16801
P:(814) 231-2925

STORMWATER STRUCTURES:

THE FOLLOWING DETAILS ARE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF PENNDOT ROADWAY CONSTRUCTION (RC) STANDARDS

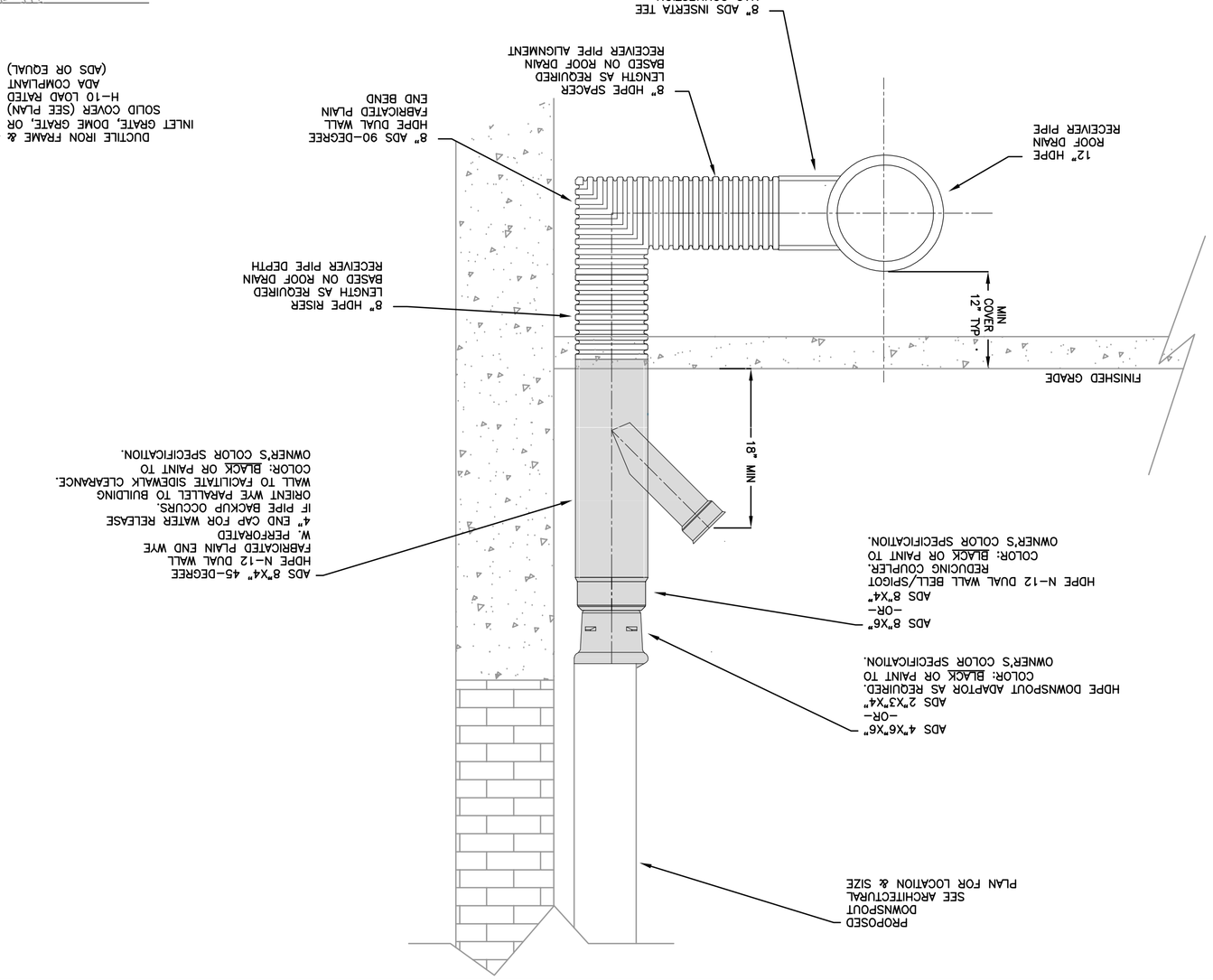
1. INLET TOPS, FRAMES, AND BICYCLE SAFE GRATES (RC-45M)

TYPE C INLET TOP
6" REVEAL

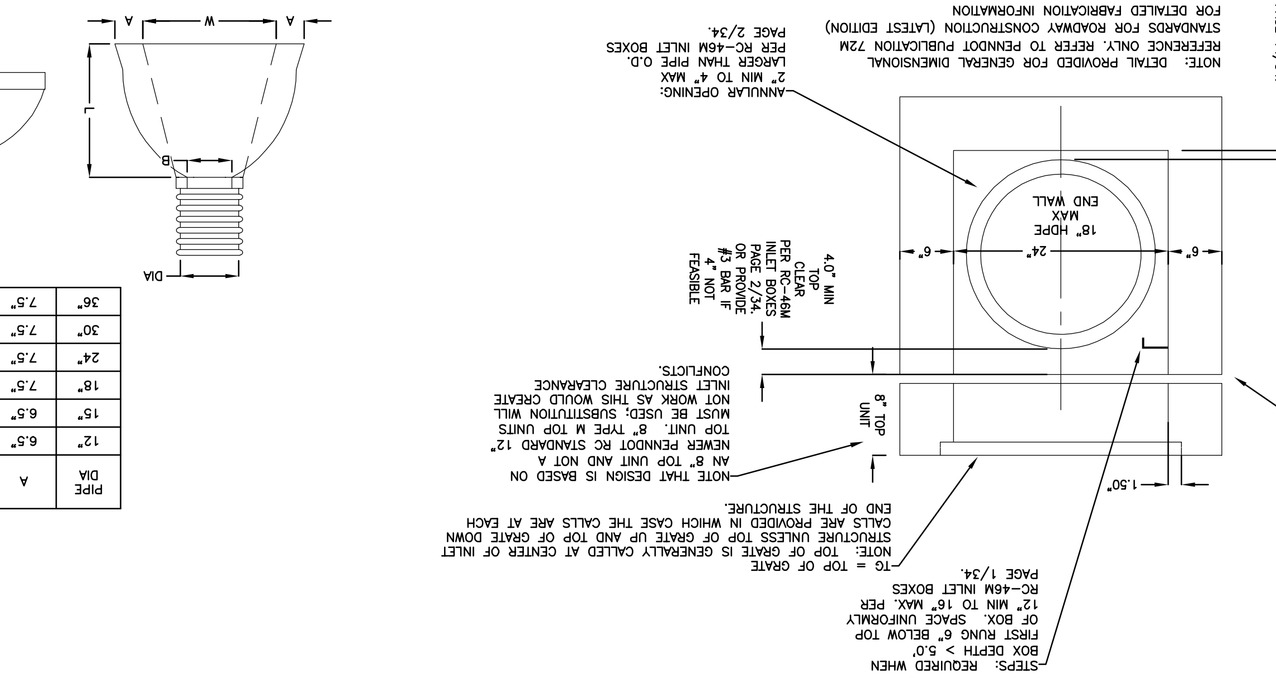


DOWNSPOUT CONNECTION

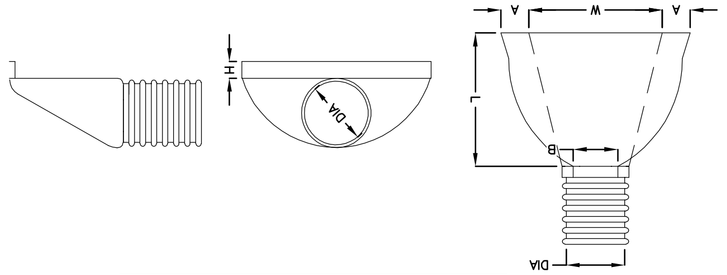
NOTE:
THIS DETAIL ILLUSTRATES THE STORMWATER MAIN AND CONNECTIONS FOR RECEIPT OF BUILDING DOWN SPOUTS, UP TO AND INCLUDING ADAPTOR BOOT.
SEE ARCHITECTURAL PLANS FOR DOWNSPOUT SIZE AND LOCATION.



TYPE M INLET TOP
8" TOP UNIT

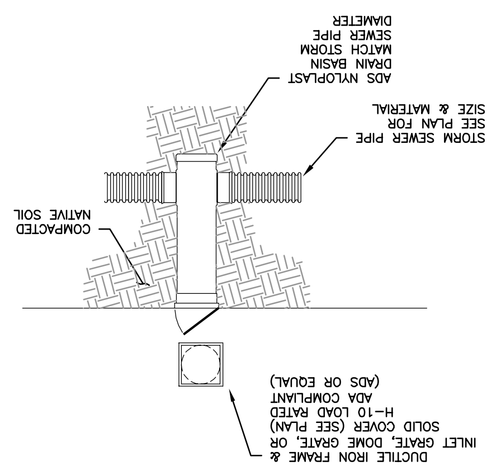


HDPE PIPE END SECTION

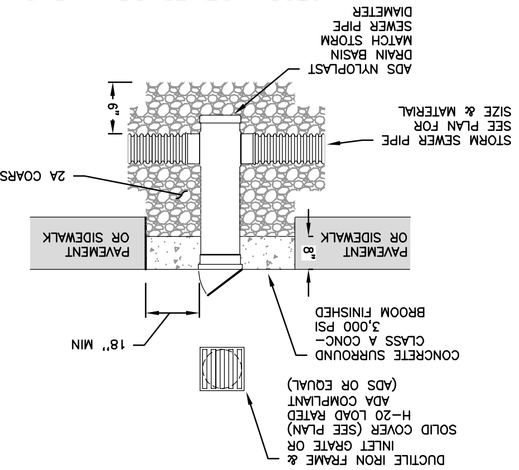


PIPE DIA	A	B (MAX)	H	L	W
12"	6.5"	10"	6.5"	25"	29"
15"	6.5"	10"	6.5"	25"	29"
18"	7.5"	15"	6.5"	32"	35"
24"	7.5"	18"	6.5"	36"	45"
30"	7.5"	22"	8.6"	58"	63"
36"	7.5"	25"	8.6"	58"	63"

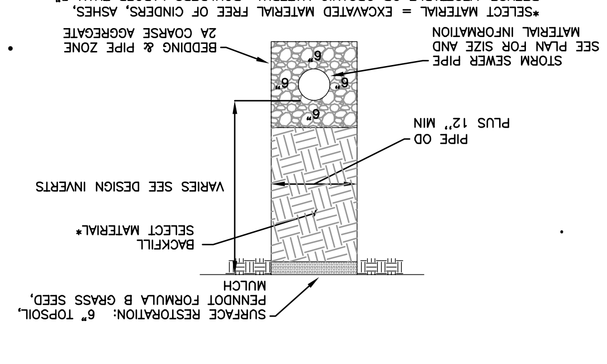
STORM SEWER DRAIN BASIN
LAWN AREAS



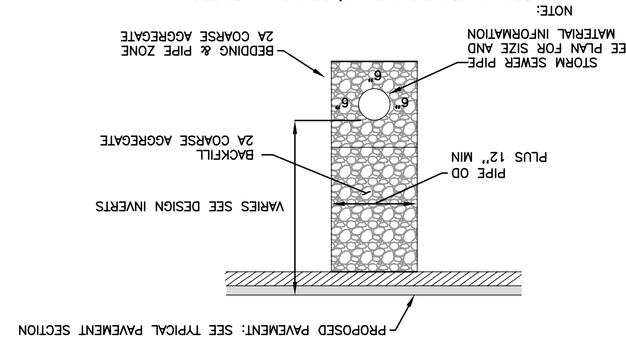
STORM SEWER DRAIN BASIN
TRAFFIC OR PEDESTRIAN AREAS



STORM SEWER TRENCH
NON-TRAFFIC AREAS



STORM SEWER TRENCH
TRAFFIC AREAS



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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

DETAILS - PCSM

PATTON TOWNSHIP, CENTRE COUNTY, PENNSYLVANIA

REVISION DESCRIPTION	DATE & INITIALS

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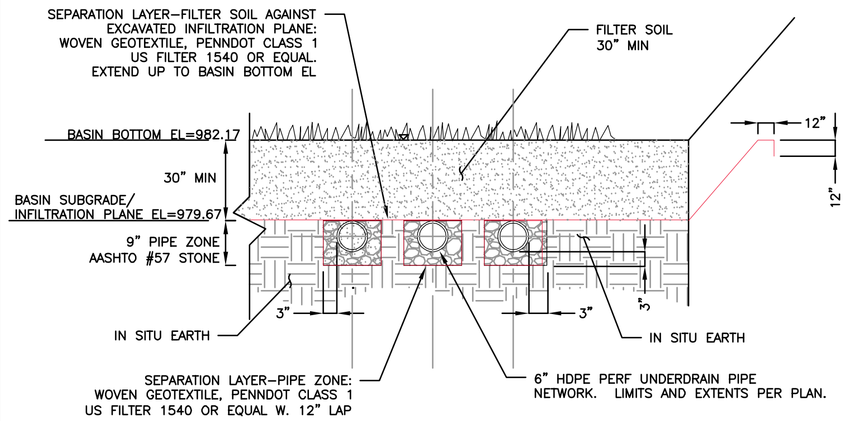
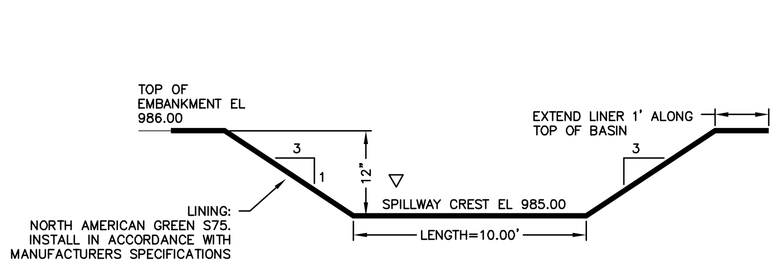
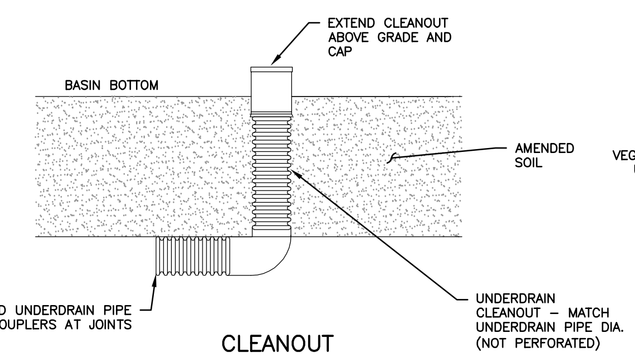


NOTE:
1. BASIN OVER–BURDEN LAYER (BETWEEN BASIN BOTTOM FINAL GRADE AND BASIN BOTTOM SUBGRADE)–TO REMAIN DURING INITIAL BASIN CONSTRUCTION:
   A. PROTECTS AND CUSHIONS THE CRITICAL INFILTRATION BASIN SUBGRADE DURING INITIAL BASIN CONSTRUCTION.
2. UPON FINAL CONSTRUCTION OF BASIN BOTTOM, OVER–BURDEN LAYER IS TO BE UNDERCUT AND REMOVED PER PLAN AND REPLACED WITH AN EQUIVALENT DEPTH OF FILTER SOIL (IN–SITU TOPSOIL OR AMENDED SOIL) AT DISCRETION OF PROJECT SOIL SCIENTIST.
3. FILTER SOIL LAYER IS TO MANIFEST AN INFILTRATION RATE RANGE OF 0.50 TO 2.00 INCHES PER HOUR.
4. PURPOSE OF FILTER SOIL (TOPSOIL OR AMENDED SOIL) LAYER IS TO PROVIDE PROPER STORMWATER FILTRATION, PARTICULARLY IF BASIN SUBGRADE IS ON ROCK, TO PROMOTE INFILTRATION, AND TO FOSTER PLANT GROWTH.
5. IF FILTER SOIL AMENDMENTS ARE REQUIRED, THEY MAY GENERALLY CONSIST OF:
   A. APPROXIMATELY 50% GOOD QUALITY TOPSOIL. UNSATISFACTORY TOPSOIL MATERIALS ARE DEFINED AS THOSE CONTAINING HIGH CLAY COMPOSITION, TRASH, DEBRIS, ROCKS, OR FROZEN MATERIAL. GOOD QUALITY TOPSOIL MAY OR MAY NOT BE AVAILABLE ON SITE.
   B. APPROXIMATELY 30% GOOD QUALITY COMPOST. THE PURPOSE OF THE COMPOST COMPONENT IS TO INCREASE ORGANIC CONTENT OF THE AMENDED SOIL MIXTURE TO PROMOTE PLANT MATERIAL GROWTH UPON THE BASIN BOTTOM. DO NOT USE BIO–SOLID COMPOST MIXTURE SOURCES; DO NOT USE COMPOST SOURCES WITH HIGH CLAY CONTENT OR PARTICULATES.
   C. APPROXIMATELY 20% CLEAN WASHED SAND. THE PURPOSE OF THE SAND COMPONENT IS TO LOOSEN THE OVERALL AMENDED SOIL MIX TO PROMOTE INFILTRATION.
   D. LIME OR GYPSUM FLOCCULATION AGENT AT AN APPROXIMATE APPLICATION RATE OF 1.5 TONS PER ACRE IF AND AS DIRECTED BY PROJECT SOIL SCIENTIST.
   E. ¼" CLEAN WASHED ANTI–SKID MATERIAL LAYER IF REQUIRED TO PROVIDE LEVELING AGAINST EXPOSED ROCK SUBGRADE PLANE AND TO INHIBIT SINKHOLE FORMATION IF AND AS DIRECTED BY PROJECT SOIL SCIENTIST.
6. FILTER SOIL MIXTURE COMPONENTS AND COMPOSITION SHALL BE DETERMINED BY PROJECT SOIL SCIENTIST BASED ON ON–SITE TEST MIXTURE PREPARATION AND INFILTRATION TESTING.
7. PROCURE, MIX, STORE, AND PLACE FILTER SOIL IN ACCORDANCE WITH POST CONSTRUCTION STORMWATER MANAGEMENT PLAN.
8. THE PROJECT SOIL SCIENTIST MUST INSPECT AND TEST FILTER SOIL FOREIGN BORROW MATERIAL SOURCES PRIOR TO DELIVERY TO PROJECTION SITE, REVIEW MATERIAL CERTIFICATIONS (SAND), AND APPROVE COMPOST SOURCES. MATERIALS THAT HAVE NOT BEEN PRE–APPROVED BY PROJECT SOIL SCIENTIST SHALL BE REMOVED FROM SITE.
9. THE PROJECT SOIL SCIENTIST MUST INSPECT THE EXPOSED BASIN SUBGRADE AND PROVIDE MITIGATION RECOMMENDATIONS PRIOR TO PLACEMENT OF FILTER SOIL MIXTURE. SUCH RECOMMENDATIONS COULD INCLUDE FURTHER UNDERCUT TO REMOVE OBJECTIONABLE SUBGRADE MATERIAL SUCH AS CLAY, FURTHER UNDERCUT TO EXPOSE ROCK PLANE IF PROXIMATE TO FINAL BASIN SUBGRADE ELEVATION, AND SCARIFICATION OR CHISEL PLOWING OF BASIN SUBGRADE MATERIAL TO PROMOTE INFILTRATION.
10. THE PROJECT SOIL SCIENTIST SHALL BE PRESENT DURING THE FILTER SOIL PREPARATION AND PLACEMENT PROCESS TO PROVIDE QUALITY ASSURANCE AND CONTROL.
11. PLACE FILTER SOIL IN LOOSE 8" LIFTS UPON BASIN SUBGRADE, STARTING AT LOWEST END OF BASIN. DO NOT PLACE FILTER SOIL IN STANDING WATER. DO NOT COMPACT. DO NOT RUN MECHANICAL EQUIPMENT ON COMPLETED BASIN BOTTOM.
12. PROJECT SOIL SCIENTIST MUST PERFORM CONFIRMATION INFILTRATION TESTING ON THE COMPLETED FILTER SOIL LAYER, WITH TESTS EVENLY DISTRIBUTED AT A COVERAGE OF 4 TO 6 TESTS PER ACRE OF BMP AREA, IN ORDER TO CONFIRM THE AS–BUILT INFILTRATION RATE IS WITHIN THE DESIGN SPECIFICATION RANGE OF 0.50 TO 2.00 INCHES PER HOUR. IF RESULTS ARE LESS THAN 0.50 INCHES PER HOUR, THEN PROJECT SOIL SCIENTIST TO MAKE RECOMMENDATIONS ON HOW TO ENHANCE PERFORMANCE OF FILTER SOIL LAYER, OR TO REMOVE AND REPLACE AS NECESSARY.

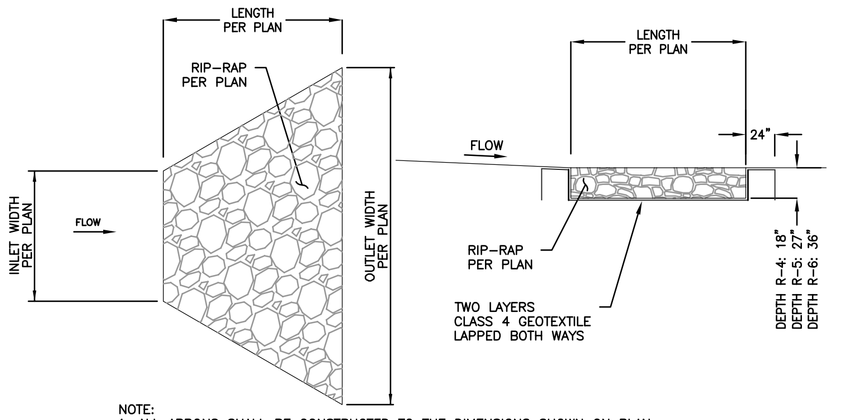
STORMWATER MANAGMENT BASIN FILTER SOIL WITH UNDERDRAIN



EMERGENCY SPILLWAY

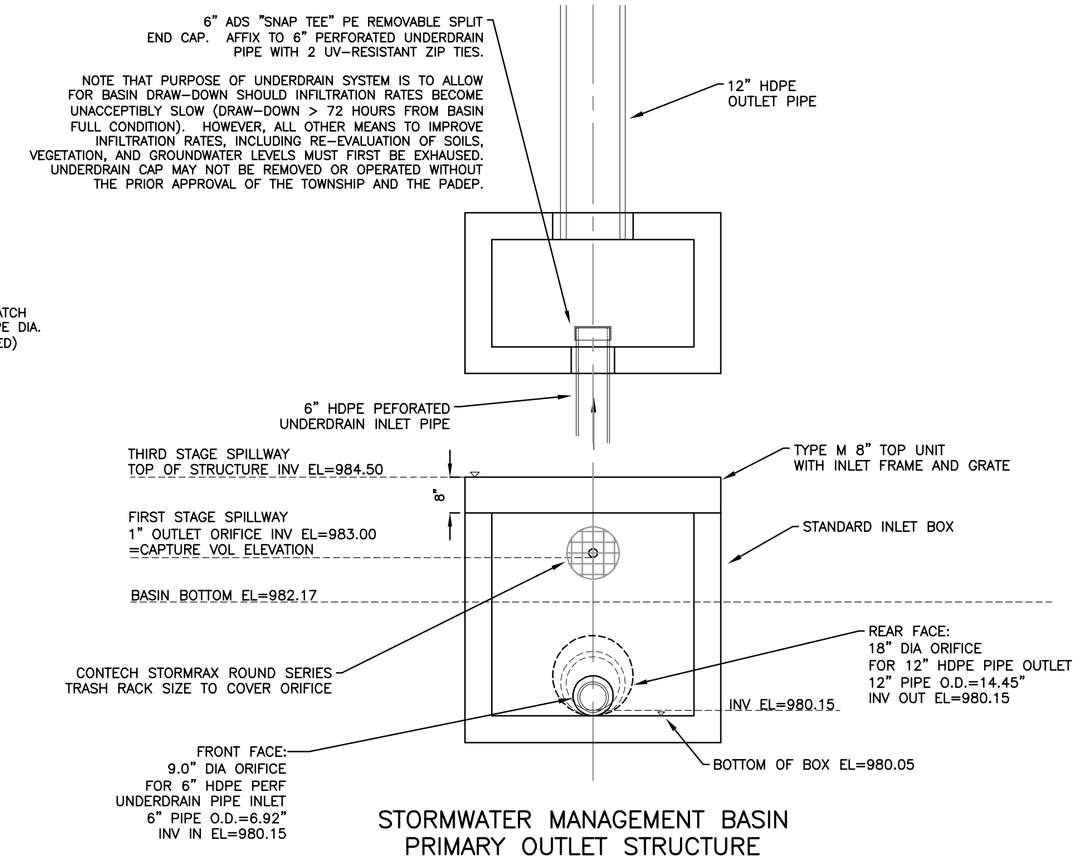


CLEANOUT STORMWATER BASIN UNDERDRAIN

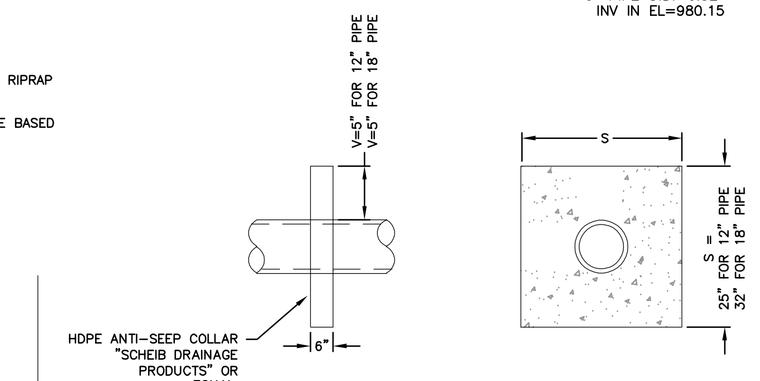


NOTE:
1. ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN ON PLAN.
2. ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.
3. PROVIDE CLASS 4 GEOTEXTILE ALONG INTERFACE AREAS WITH GROUND CONTACT.
4. APRON LONGITUDINAL SLOPE SHOULD BE LEVEL OR AS CLOSE TO LEVEL AS REASONABLY POSSIBLE BASED ON SITE CONDITIONS. MAX SLOPE = 5%.

ROCK APRON OUTLET PROTECTION

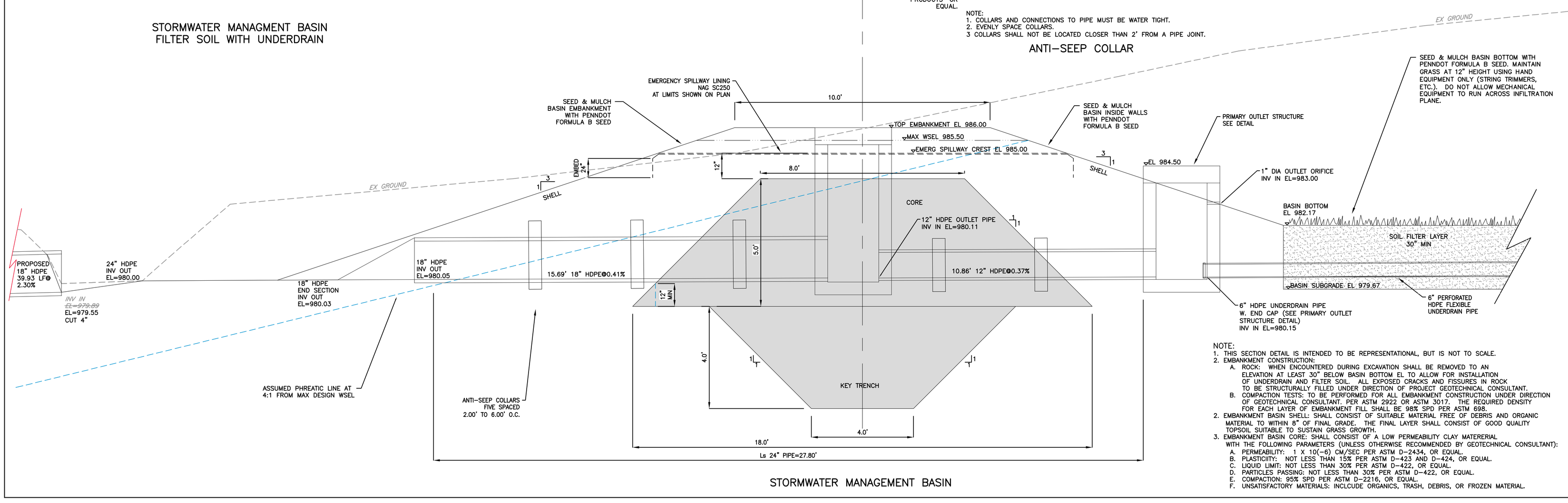


STORMWATER MANAGEMENT BASIN PRIMARY OUTLET STRUCTURE



NOTE:
1. COLLARS AND CONNECTIONS TO PIPE MUST BE WATER TIGHT.
2. EVENLY SPACE COLLARS.
3 COLLARS SHALL NOT BE LOCATED CLOSER THAN 2' FROM A PIPE JOINT.

ANTI–SEEP COLLAR



STORMWATER MANAGEMENT BASIN

NOTE:
1. THIS SECTION DETAIL IS INTENDED TO BE REPRESENTATIONAL, BUT IS NOT TO SCALE.
2. EMBANKMENT CONSTRUCTION:
   A. ROCK: WHEN ENCOUNTERED DURING EXCAVATION SHALL BE REMOVED TO AN ELEVATION AT LEAST 30" BELOW BASIN BOTTOM EL TO ALLOW FOR INSTALLATION OF UNDERDRAIN AND FILTER SOIL. ALL EXPOSED CRACKS AND FISSURES IN ROCK TO BE STRUCTURALLY FILLED UNDER DIRECTION OF PROJECT GEOTECHNICAL CONSULTANT.
   B. COMPACTION TESTS: TO BE PERFORMED FOR ALL EMBANKMENT CONSTRUCTION UNDER DIRECTION OF GEOTECHNICAL CONSULTANT. PER ASTM 2922 OR ASTM 3017. THE REQUIRED DENSITY FOR EACH LAYER OF EMBANKMENT FILL SHALL BE 98% SPD PER ASTM 698.
2. EMBANKMENT BASIN SHELL: SHALL CONSIST OF SUITABLE MATERIAL FREE OF DEBRIS AND ORGANIC MATERIAL TO WITHIN 8" OF FINAL GRADE. THE FINAL LAYER SHALL CONSIST OF GOOD QUALITY TOPSOIL SUITABLE TO SUSTAIN GRASS GROWTH.
3. EMBANKMENT BASIN CORE: SHALL CONSIST OF A LOW PERMEABILITY CLAY MATERERIAL WITH THE FOLLOWING PARAMETERS (UNLESS OTHERWISE RECOMMENDED BY GEOTECHNICAL CONSULTANT):
   A. PERMEABILITY: 1 X 10(–6) CM/SEC PER ASTM D–2434, OR EQUAL.
   B. PLASTICITY: NOT LESS THAN 15% PER ASTM D–423 AND D–424, OR EQUAL.
   C. LIQUID LIMIT: NOT LESS THAN 30% PER ASTM D–422, OR EQUAL.
   D. PARTICLES PASSING: NOT LESS THAN 30% PER ASTM D–422, OR EQUAL.
   E. COMPACTION: 95% SPD PER ASTM D–2216, OR EQUAL.
   F. UNSATISFACTORY MATERIALS: INCLCUDE ORGANICS, TRASH, DEBRIS, OR FROZEN MATERIAL.

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KELLER ENGINEERS
CIVIL • STRUCTURAL • SURVEY

DATE & INITIALS	REVISION DESCRIPTION

FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

DETAILS - PCSM
PATTON TOWNSHIP, CENTRE COUNTY PENNSYLVANIA

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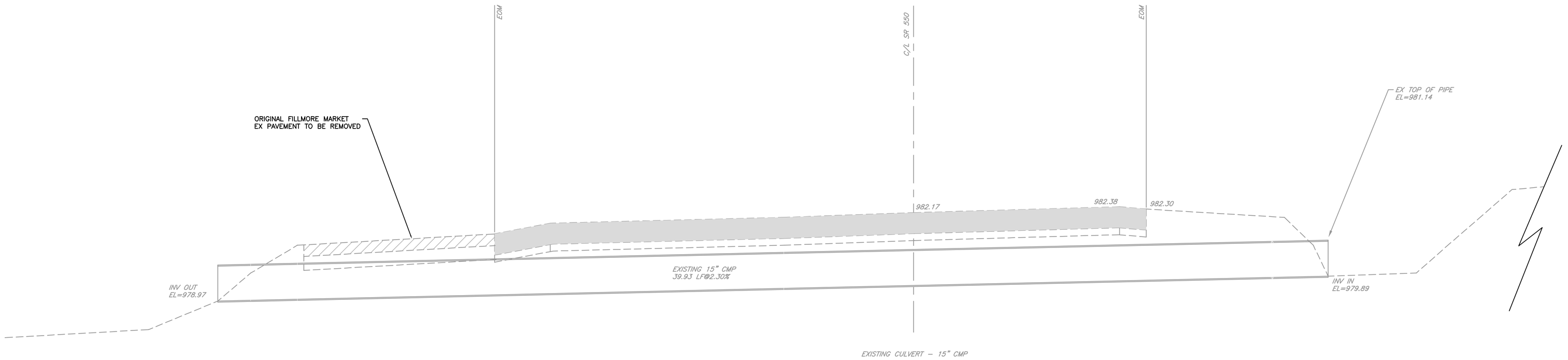

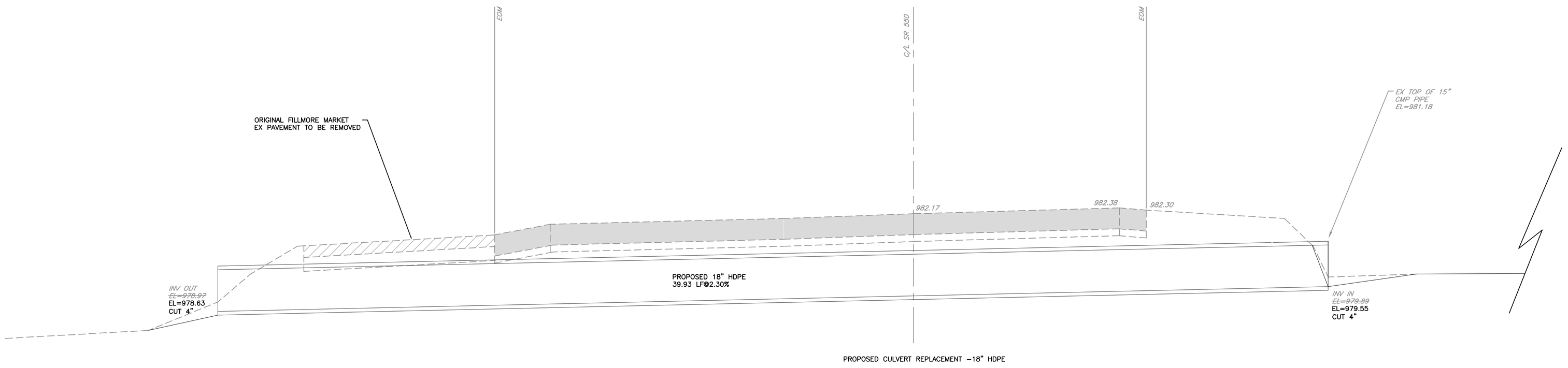

SR 550 CULVERT #2 REPLACEMENT

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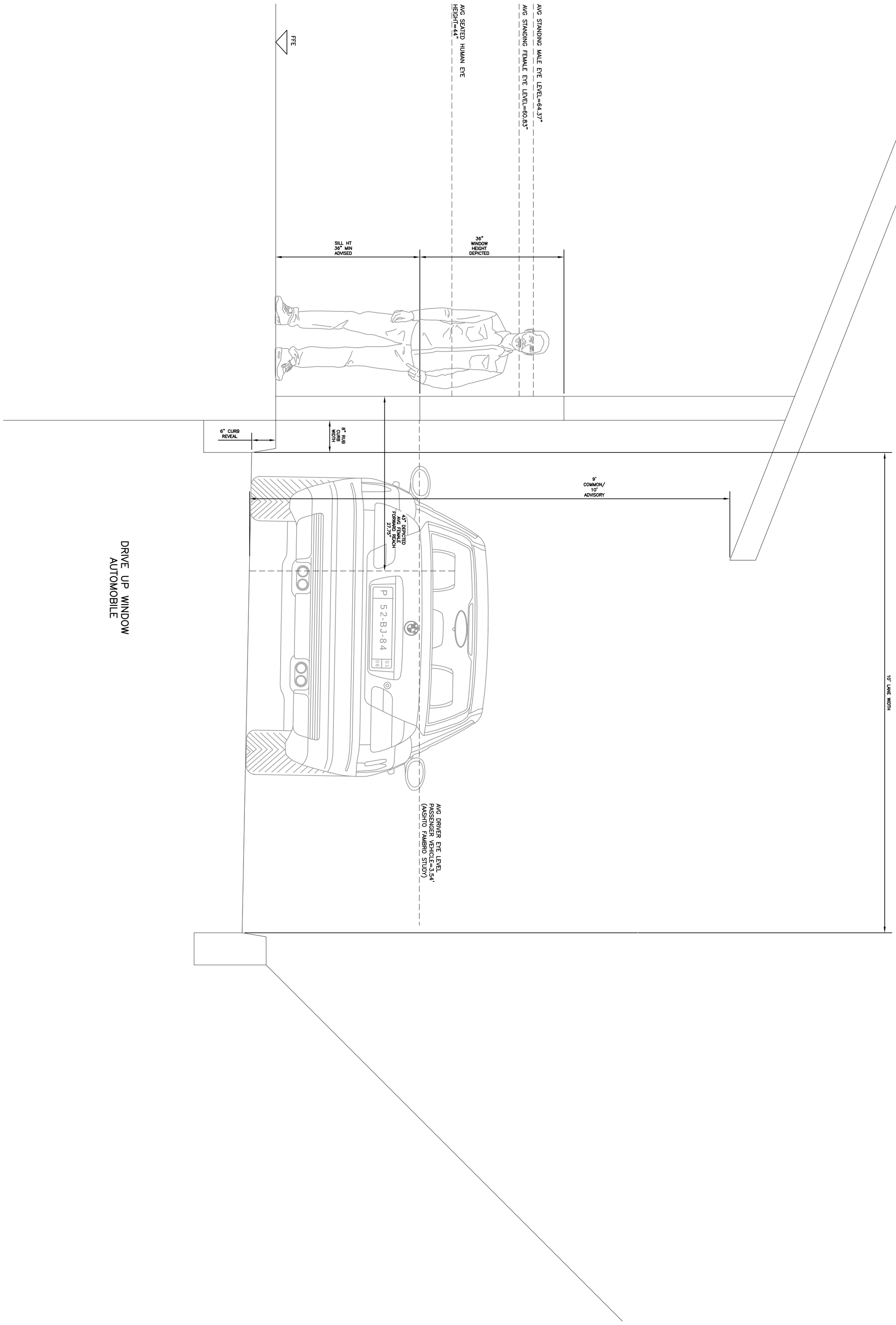

DRIVE UP WINDOW
AUTOMOBILE

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FINAL LAND DEVELOPMENT PLAN
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DETAILS - DRIVE UP WINDOW

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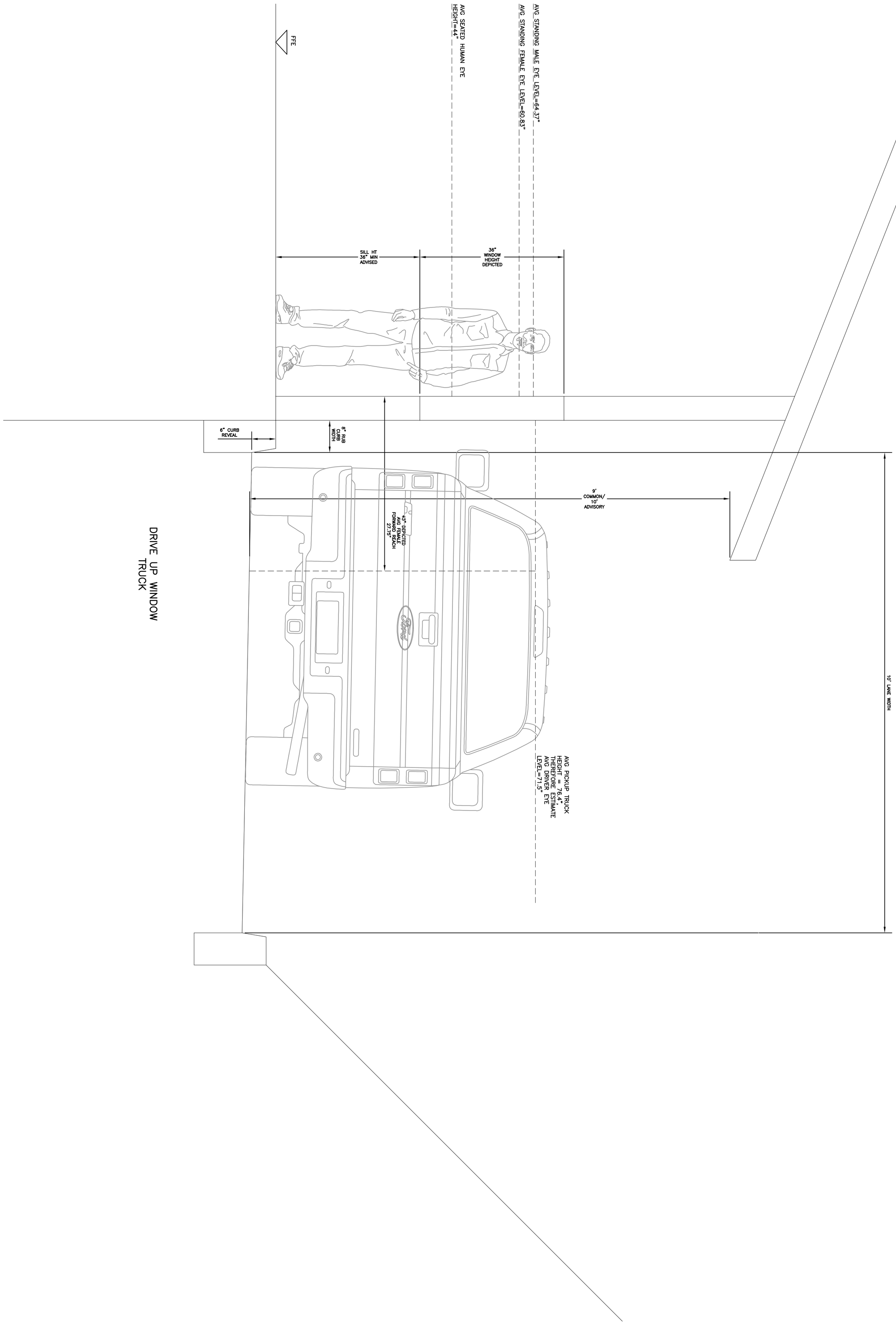

DRIVE UP WINDOW
TRUCK

PROJECT NO.:	4769-1
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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

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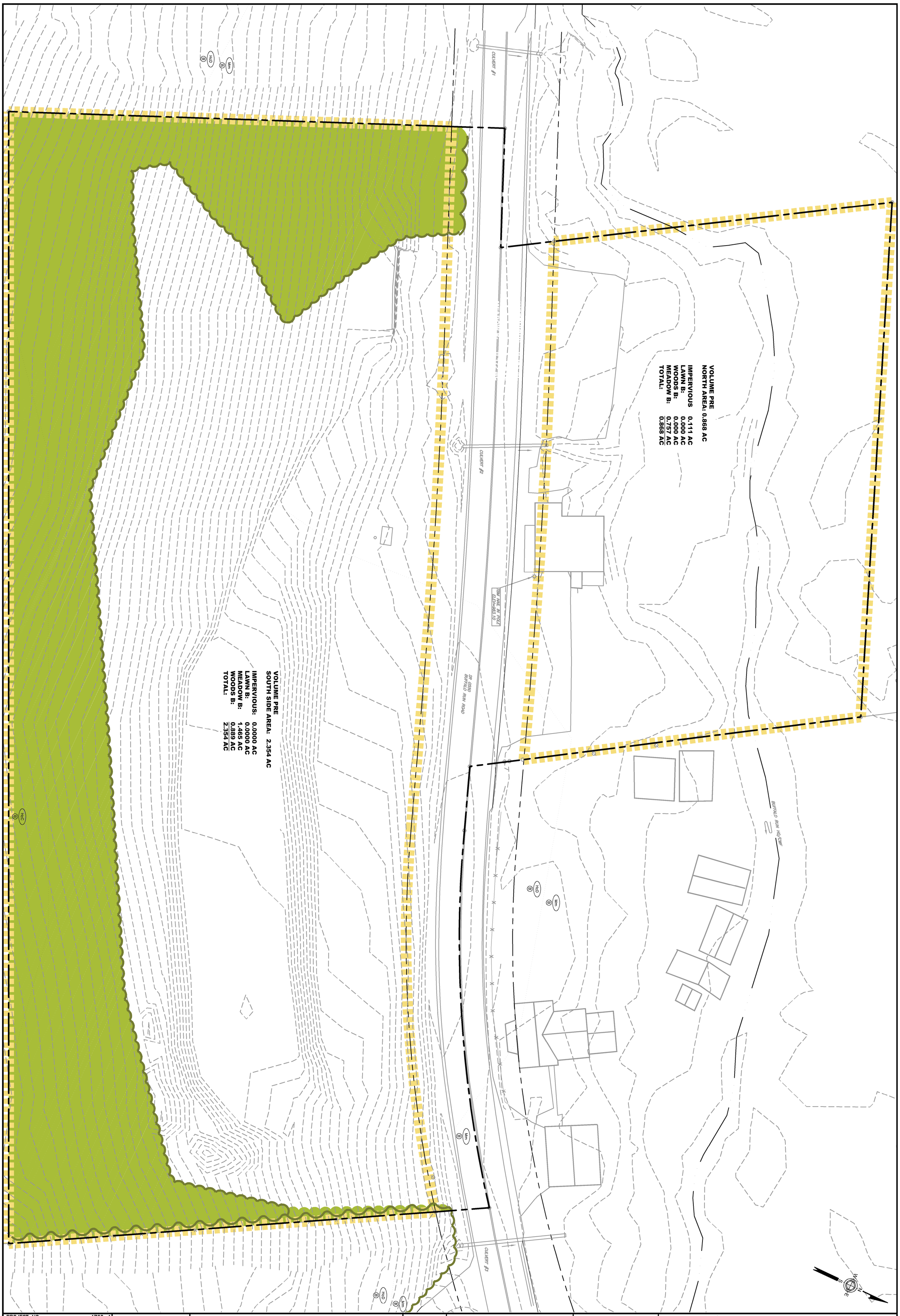

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

DRAINAGE AREA MAP
VOLUME CONTROL
PREDEVELOPMENT

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

DATE & INITIALS	REVISION DESCRIPTION

SCALE: 1"=20'

20' 0' 20'

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SLOW DRIP
ONLOT SUBSURFACE
WASTEWATER DISPOAL
SYSTSEM

SITE AREA:
2.354 AC

VOLUME POST
DA-B UNIMPEDED
AREA: 0.526 AC

IMP: 0.000 AC
LAWN B: 0.526 AC
TOTAL: 0.526 AC

VOLUME POST
NORTH SIDE AREA: 0.868 AC

IMP: 0.000 AC
MEADOW B: 0.868 AC
TOTAL: 0.868 AC

VOLUME POST
SOUTH SIDE AREA: 1.828 AC

IMP: 0.472 AC
LAWN B: 1.356 AC
TOTAL: 1.828 AC

CULVERT #1
CULVERT #2
CULVERT #3
SR 0550
BUFFALO RUN ROAD
BUFFALO RUN HQ CWF
HsD
Mm
HsC
GAS
W
E
ø

PROJECT NO.:	4769-1
FILE NAME:	
DATE:	2025-01-03
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DRAWN BY:	
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B

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

DRAINAGE AREA MAP
VOLUME CONTROL
POST DEVELOPMENT

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

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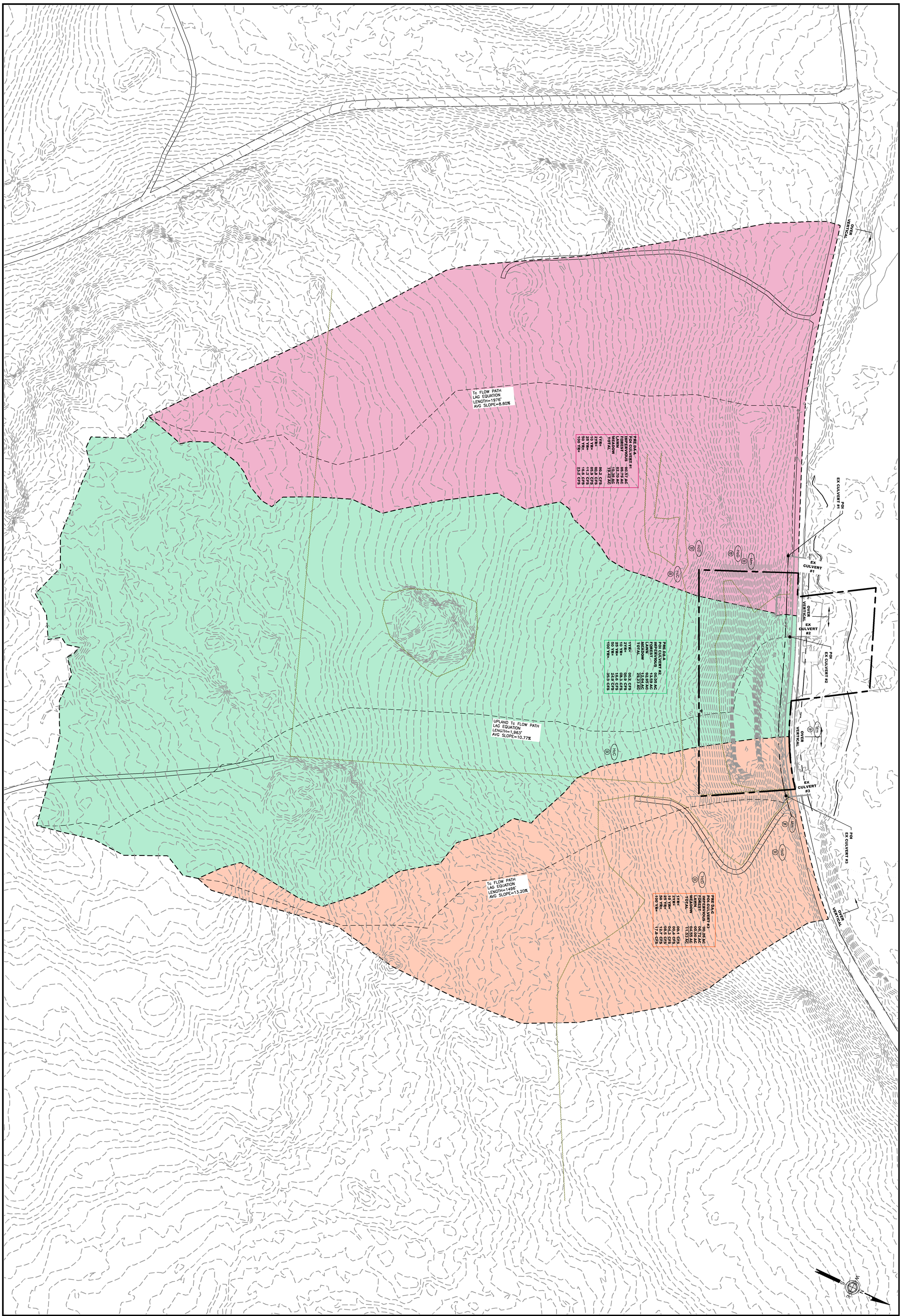

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C

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

DRAINAGE AREA MAP
RATE CONTROL
PRE DEVELOPMENT

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

DATE & INITIALS	REVISION DESCRIPTION

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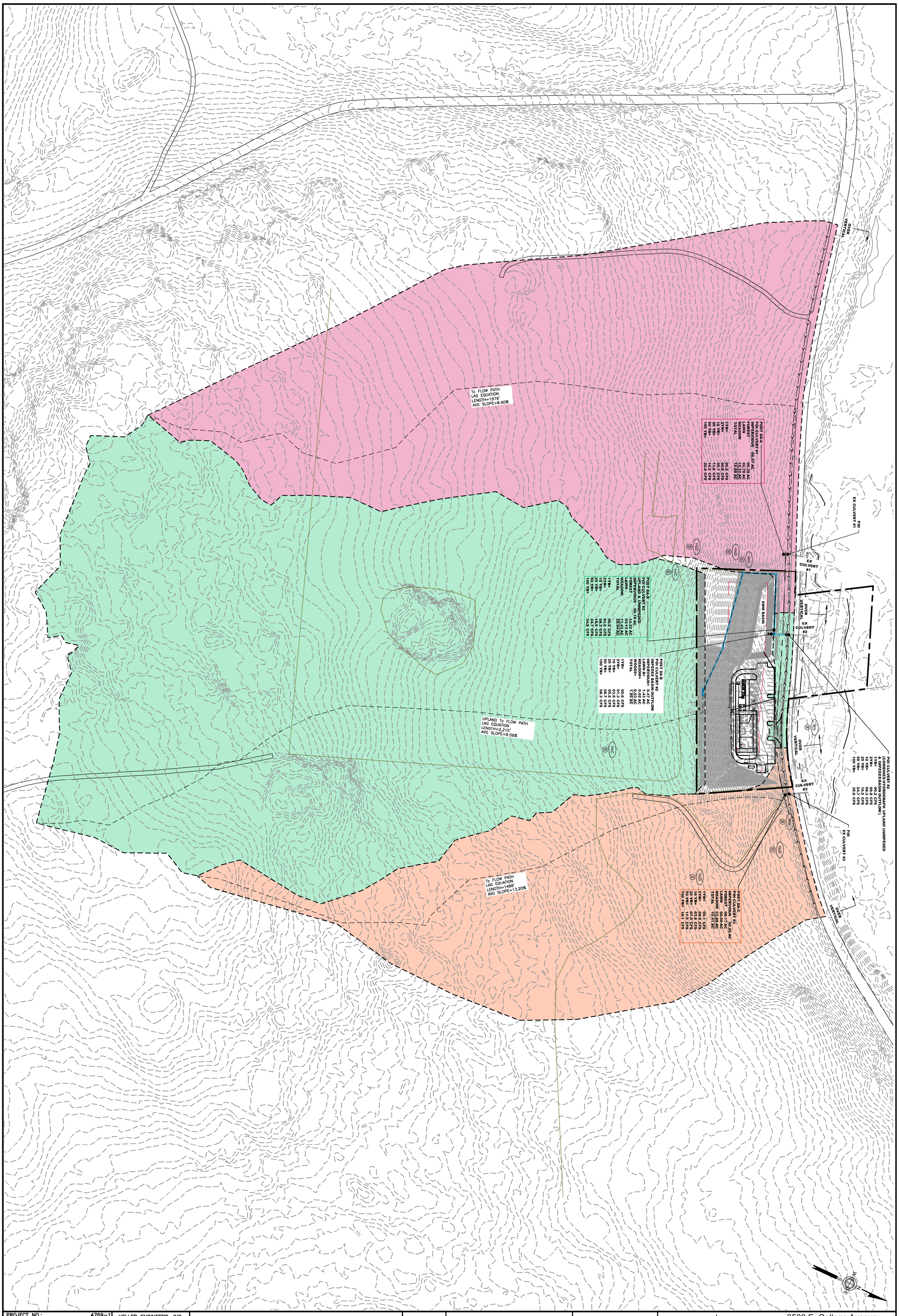

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D

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

DRAINAGE AREA MAP
RATE CONTROL
POST DEVELOPMENT

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

DATE & INITIALS	REVISION DESCRIPTION

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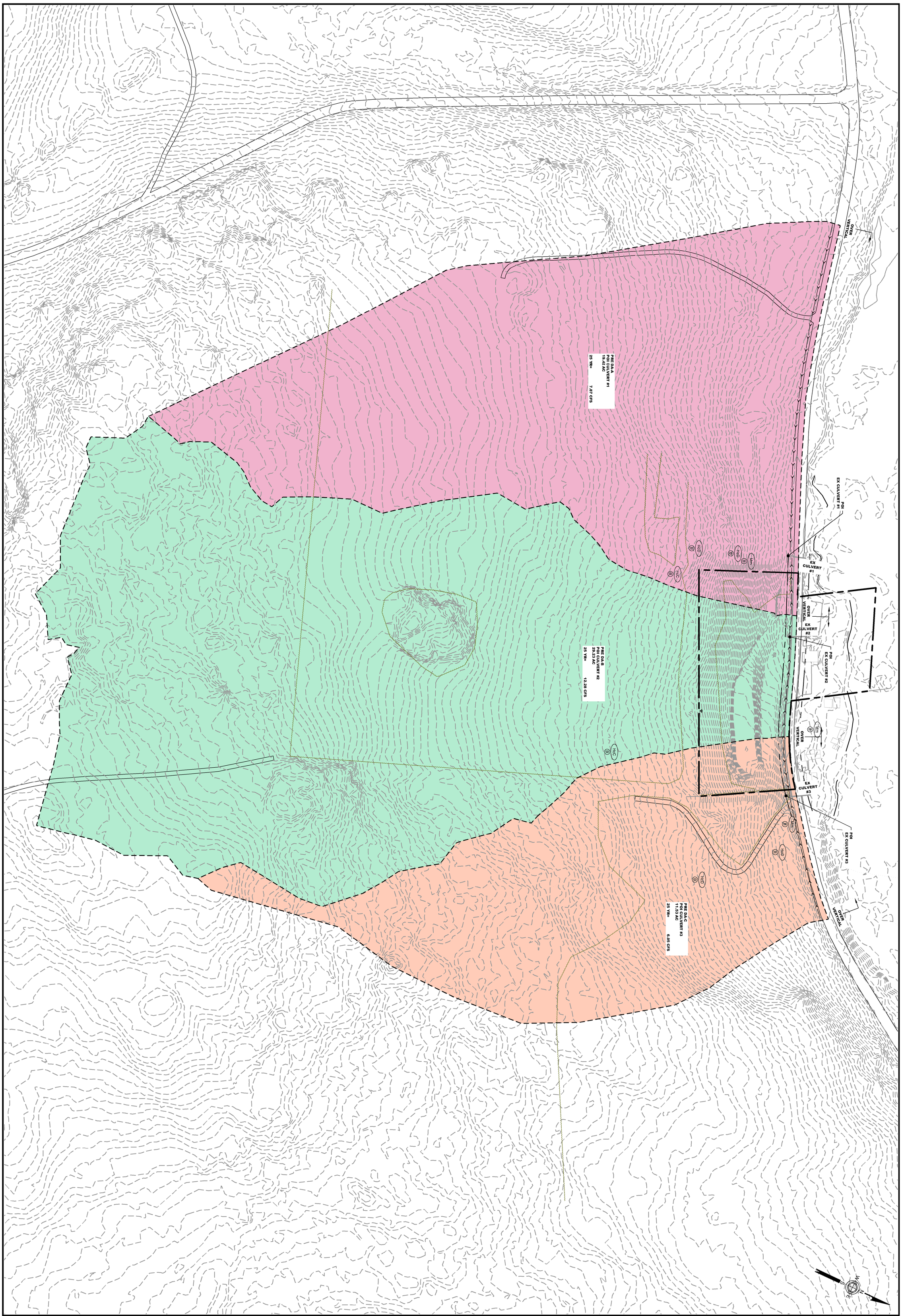

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E

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FINAL LAND DEVELOPMENT PLAN
FILLMORE MARKET & CAFE

DRAINAGE AREA MAP
CONVEYANCE
PREDEVELOPMENT

PATTON TOWNSHIP, CENTRE COUNTY
PENNSYLVANIA

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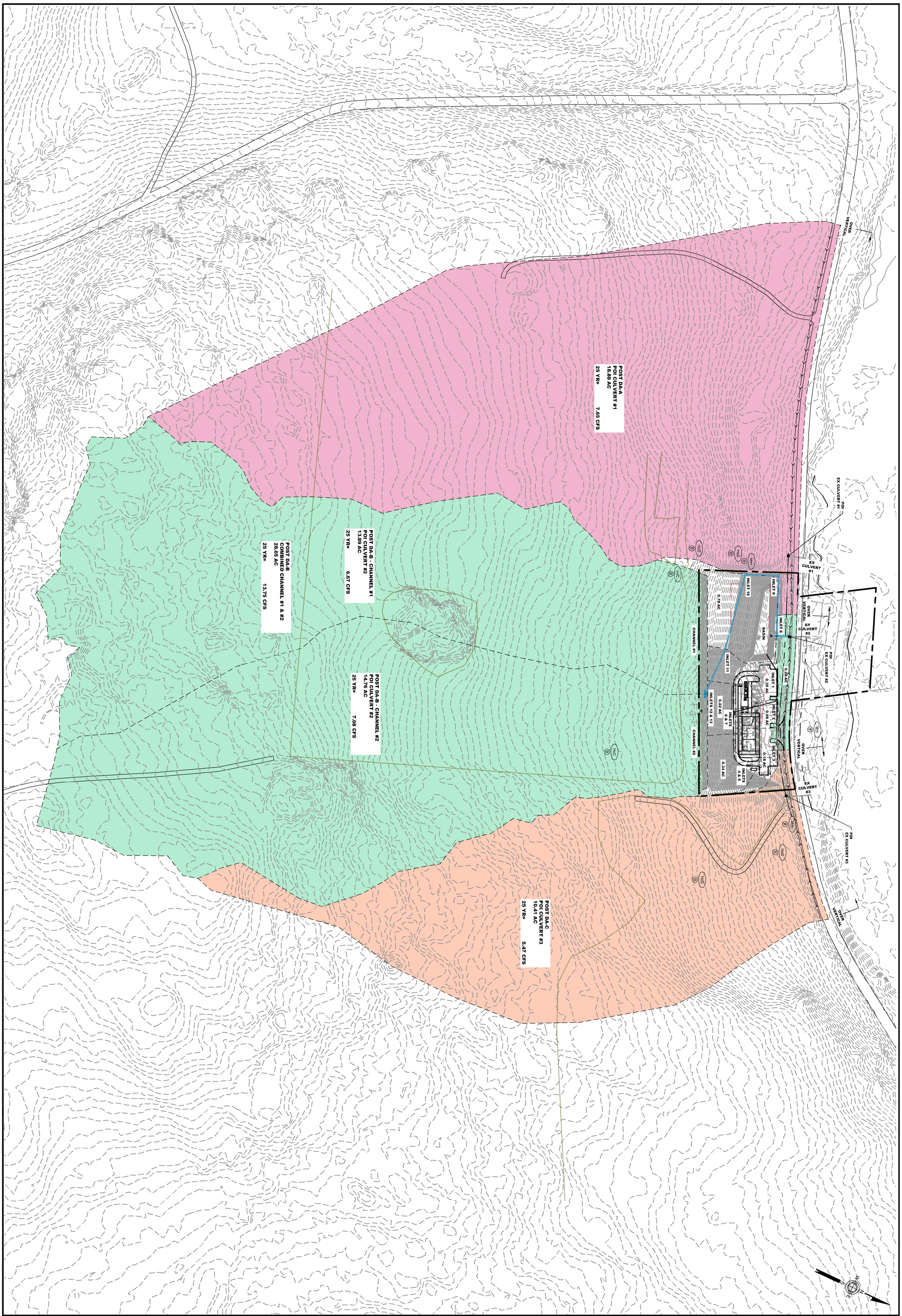

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FILE NAME:			
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F			SCALE: 1"=20' (20' 0' 20')

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