



## FERGUSON TOWNSHIP PLANNING COMMISSION REGULAR MEETING AGENDA

Monday, October 11, 2021

6:00 PM

Zoom Meeting

<https://us02web.zoom.us/j/83268113138>

Meeting ID: 832 6811 3138

- I. **Call To Order**
- II. **Citizen Input**
- III. **Approval of Regular Meeting Minutes**
  - A. September 27, 2021
- IV. **Unfinished Business**
- V. **New Business**

### A. Land Development Plans

#### i. **Orchard Square Preliminary Land Development Plan**

Penn Terra Engineering, Inc. submitted, on behalf of their client, The Orchard Square Preliminary Land Development Plan. This plan proposes the construction of a 19,856 square foot Commercial Shopping Center, associated parking and utilities. As proposed, there will be 3 store fronts with 100 parking spaces. The lot, T.P. 24-004-067F,0000-, is 0.115 acres. The parcel is located within the General Commercial (C) Zoning District and within the Corridor Overlay District.

Staff has reviewed the proposed Orchard Square Preliminary Land Development Plan and is not recommending any conditions to be included with the plan.

***Recommended Motion:** That the Planning Commission make a recommendation to the Board of Supervisors to approve the Orchard Square Preliminary Land Development Plan subject to the conditions described in the Community Planner's memorandum dated October 7, 2021.*

**Staff Recommendation:** Staff recommends that the Planning Commission review the Orchard Square Preliminary Land Development Plan and recommend approval to the Board of Supervisors pending outstanding review comments.

## **B. Community Planning**

### **i. Rediscover State College Campaign**

*Brad Groznik from Groznik PR requested to attend a meeting with the Planning Commission on a potential campaign for the Centre Region called 'Rediscover State College'. The goal of this campaign is to promote the region to people considering moving back to State College for a higher quality of life.*

*The Rediscover State College website can be viewed at the following URL:  
<https://www.rediscoverstatecollege.com/>*

## **VI. Official Reports and Correspondences**

- A. Board of Supervisors
- B. CRPC Report
- C. Land Development Plans
- D. Staff Updates

## **VII. Adjournment**

**FERGUSON TOWNSHIP PLANNING COMMISSION  
REGULAR MEETING MINUTES  
MONDAY, SEPTEMBER 27, 2021  
6:00 PM**

**ATTENDANCE**

The Planning Commission held its second meeting of the month on Monday, September 27, 2021, as a zoom meeting. In attendance:

**Commission:**

Jeremie Thompson – Chair  
Jerry Binney – Vice Chair  
Robert Crassweller  
Bill Keough  
Lisa Rittenhouse  
Dr. Ellen Taricani  
Lewis Steinberg  
Qian Zhang – Alternate

**Staff:**

Jenna Wargo, Planning & Zoning Director  
Kristina Bassett, Community Planner  
Jeff Ressler, Zoning Administrator  
David Pribulka, Township Manager

Others in attendance: Rhonda Demchak, Recording Secretary; Laura Dininni, Chair, Ferguson Township Board of Supervisors; Wes Glebe, Ferguson Township Residents; Christopher Bruce, Ferguson Township Resident; Chad Stafford, Civil Engineer, Penn Terra Engineering

**I. CALL TO ORDER**

Mr. Thompson called the Ferguson Township Planning Commission's regular meeting to order on Monday, September 27, 2021, at 6:00 p.m. Mr. Thompson noted that the Planning Commission meeting had been advertised in accordance with the PA Sunshine Act as a virtual zoom meeting. Persons attending and wanted to participate were asked to enter their name, municipality, and topic by utilizing the Q&A bubble at the bottom of the screen.

Ms. Wargo took roll call, and the Planning Commission had a quorum.

**II. CITIZEN INPUT**

There were none.

**III. APPROVAL OF REGULAR MEETING MINUTES SEPTEMBER 13, 2021**

Dr. Taricani moved that the Planning Commission **approve** the minutes of August 23, 2021. Mr. Crassweller seconded the motion. The motion passed unanimously.

Due to a scheduling conflict with the Township Manager, Jerry Binney moved that the Planning Commission start with the Draft Ordinance Amendment under Community Planning. Dr. Taricani seconded the motion. The motion passed unanimously

**IV. COMMUNITY PLANNING**

**A. Draft Ordinance Amendment – Turf Grass, Weeds and Other Vegetation**

Mr. Pribulka noted that the Board of Supervisors reviewed a draft amendment to the Township's Turf Grass, Weeds and Other Vegetation Ordinance on September 7, 2021. Comments on the ordinance have been incorporated in the revised draft that is included in the agenda packet. The amendments include an increase in the permitted height of

managed turf grass from six inches to eight inches; requirements to establish a mowed buffer around any installation; and removal of the audit provisions, as well as other minor amendments. The Board referred the amendments to Planning Commission for review and comment. There is an Ordinance Enforcement Officer that routinely patrols the Township and there is a process if there is a violation. Several years ago, native landscape gardens were added to the ordinance, but not many have taken advantage of the permit process.

Ms. Zhang asked how the ordinance of height is enforced. Mr. Pribulka noted that it is mostly complaint driven and the Township has a part-time Ordinance Enforcement Officer.

Mr. Steinberg asked what the standard is in other regions of Centre County. Mr. Pribulka noted it is mostly 6-8 inches but have seen it go to 10 inches.

Mr. Crassweller noted that the ordinance doesn't define what a weed is. Mr. Pribulka stated that it is subject to interpretation and will refine the language as appropriate. Mr. Crassweller asked if there were any provisions for field mice or moles. Mr. Pribulka noted that the 2-foot buffer surrounding any native landscape should deter nuisance animals.

Mr. Keough asked how many of the violations with the 6-inch grass occur with occupied homes. Mr. Pribulka noted that it is not common, but there have been violations. Mr. Keough asked if anyone spoke with PSU about the differences between 6-inch to 8-inch. Mr. Pribulka will reach out to the Extension Office for consultation. Mr. Pribulka noted that he has researched the differences in heights and has found no differences in keeping out invasive insects/species. Mr. Keough expressed concerns with changing the heights because 6 inches is common to the Homeowners Association and is opposed to the proposed change. Mr. Keough felt that the only reason this is being presented because of one incident where the resident didn't comply.

Dr. Taricani noted that 8-inch-high grass is a significant amount.

Ms. Rittenhouse stated that she lives in an HOA and noted that some will try to sidestep the HOA by going to the Township to get their way. Ms. Rittenhouse stated it is a consistent issue in Foxpointe.

Mr. Steinberg concurred with Mr. Keough to keep it at 6 inches.

Ms. Zhang asked if language could be added to the ordinance to address the HOA's. Mr. Pribulka noted it could be added but does not suggest having subset regulations. Mr. Pribulka stated that it is legally permissible for a HOA covenant to be more restrictive than the Township ordinances.

Mr. Keough asked why grow zone was removed from the ordinance and suggested adding back into the ordinance. Mr. Pribulka noted that the policy refers to green infrastructure, but the signage, marketing material, etc. are called grow zones. Mr. Keough suggested adding low-mow, no-mow meadows, and grow zones to the last sentence under B of Green Infrastructure. Mr. Pribulka will work the language back into the ordinance.

Mr. Thompson stated that there are residents in the northeast of the Township that are concerned with increasing the height. Mr. Thompson expressed concerns with pesticides not being properly applied. Mr. Pribulka noted that the Township has certified applicators on staff for roadside spraying.

Mr. Keough moved that the Planning Commission **recommend** approval of the Turfgrass, Weeds, and Other Vegetation ordinance proposed and maintain the 6-inch grass height that is in the current ordinance. Mr. Binney seconded the motion. The motion passed unanimously.

## V. UNFINSHED BUSINESS

### A. Zoning and SALDO Updates

Ms. Wargo noted that Comprehensive updates to the Township's Zoning and Subdivision and Land Development (SALDO) Ordinances were adopted in November 2019 by the Board of Supervisors. While applying the new regulations, staff has identified additional areas within the ordinance that need to be amended. The Board was presented with a redlined copy of staff's proposed amendments at the August 2, 2021 Board of Supervisors meeting. The board identified additional amendment that they would like to see included. Those comments are reflected in this redlined draft. On September 13, 2021, Planning Commission reviewed the first draft of amendments and provided input to staff. Staff has updated the redlined draft to reflect those comments as well. Ms. Wargo noted it will be an ongoing process.

Mr. Keough thanked the staff for reworking the language on page 2 of 18 in the agenda packet.

Mr. Steinberg had concerns regarding the disputed review fees about the clarity and could they pay the fee first then dispute. Ms. Wargo noted that the language is from the MPC and legally can't withhold approving a land development plan. Mr. Binney asked if interest could be charged. Ms. Wargo will look into but doubts that it can be done. Ms. Wargo will consult with the Township solicitor regarding the fees.

Mr. Keough asked how the fire hydrants requirements are handled in the RR and RA zones for residential properties because it is not listed. Ms. Wargo stated that there isn't a requirement but there is an exemption placed in the water supply requirement. Mr. Keough suggested getting clarity regarding the exemptions. Mr. Keough noted in the western end of the Township many years ago if there were three or more houses in a subdivision, the subdivider had to install a water tank in the ground. Mr. Keough would like to know if the tanks are still in the ordinance, if so, he suggested removing. Ms. Rittenhouse stated that Harris Township still has the ordinance where the developer can place holding tanks or sprinklers.

## VI. NEW BUSINESS

### A. Land Development Plans

#### i. Rogan/Sycamore Drive Subdivision Application for Consideration of a Modification/Waiver from §22.306. – Minor Subdivision

Ms. Bassett reported that Penn Terra Engineering, Inc. on behalf of their client, has requested a modification/waiver from Section 22.306. – Minor Subdivision. This section has a process that outlines requirements for submission, however the definition of a Minor Subdivision was omitted from the most recent update of the Subdivision and Land Development Ordinance. The plan is to split one lot into two. There was no fee due to the omission by the staff.

Ms. Bassett reviewed and gave an overview of the lot via a slide.

Mr. Keough moved that the Planning Commission **make** a recommendation to the Board of Supervisors to approve or deny the Application for Consideration of a Modification from §22.306. – Minor Subdivision. Mr. Crassweller seconded the motion. The motion passed unanimously.

**ii. Rogan/Sycamore Drive Subdivision Application for Consideration of a Modification/Waiver from §22-512.1.E. – Sidewalks**

Ms. Bassett reported that Penn Terra Engineering, Inc. on behalf of their client, has requested a modification/waiver from Section 22.512.1.E. – Sidewalks. This section states that sidewalks are required along both sides of all private streets and/or driveways serving more than three units unless a modification is granted by the Board of Supervisors. Only two lots are being proposed, each with approximately 50 foot frontage to the lot. No sidewalks currently exist along Sycamore Drive. The roadside berms along Sycamore Drive are rip rap lined channels and if sidewalks would be developed along Sycamore Drive, it would require the sidewalks to be placed into the lots and outside of the right-of-way.

Mr. Binney moved that the Planning Commission **make** a recommendation to the Board of Supervisors to approve or deny the Application for Consideration of a Modification from §22.512.1.E. – Sidewalks. Dr. Taricani seconded the motion. The motion passed unanimously.

**iii. Rogan/Sycamore Drive Subdivision Application for Consideration of a Modification/Waiver from §506.1.B. & G. – Water Supply**

Ms. Bassett reported that Penn Terra Engineering, Inc. on behalf of their client, has requested a modification/waiver from Section 22.506.1.B & G. – Water Supply. These sections require a fire hydrant to be provided along public roads for the protection of buildings. The spacing between fire hydrants shall not exceed 1000 feet in developments of one and two-family dwellings as measured along the center line of the fire apparatus access roads. Since the proposed house on Lot 1R is set back on the lot, it is not within the required distance from the fire hydrant.

The applicant wishes to install a National Fire Protection Association (NFPA) 13D Sprinkler System in the planned home(s) in lieu of relocating the fire hydrant as required by the Township's Ordinance. Relocating the fire hydrant requires an extension of nearly 700 linear feet and upgrading the current water infrastructure from 4" to 6" pipe. Installing the NFPA 13D Sprinkler System is financially feasible and provides a better opportunity for fire control in the proposed home. The Alpha Fire Chief has reviewed this request and supports.

Mr. Keough asked if the sprinkler system commitment will be included in a later land development plan. Ms. Wargo stated that they will need to submit a land development plan for the homes.

Mr. Crassweller moved that the Planning Commission **make** a recommendation to the Board of Supervisors to approve or deny the Application for Consideration of a Modification from §22.506.1.B. & G. – Water Supply. Mr. Keough seconded the motion. The motion passed unanimously.

**iv. Rogan/Sycamore Drive Subdivision Application for Consideration of a Modification/Waiver from §22-301. General**

Ms. Bassett reported that the applicant is requesting to go through the land development process as a Preliminary/Final land development plan instead of two separate plans. Public utilities will be available to connect to the home and minimal earth disturbances will occur on the site.

Mr. Binney moved that the Planning Commission make a recommendation to the Board of Supervisors to approve or deny the Application for Consideration of a Modification from \$22.301. – General. Mr. Keough seconded the motion. The motion passed unanimously.

**v. Rogan/Sycamore Drive Preliminary Subdivision**

Ms. Bassett reported that Penn Terra Engineering, Inc. submitted, on behalf of their client, The Rogan/Sycamore Drive Subdivision. The Rogan/Sycamore Drive Subdivision is a 10.152 acre lot located on Sycamore Drive and is currently undeveloped. The purpose of this plan is to subdivide Tax Parcel 24-009A,254-,0000- into two lots, proposed Lot 1A and Lot 1R. The existing lots are 0.547 acres, 0.414 acres, and 0.268 acres respective to the Tax Parcels listed above. Lot 1A is proposed to be 2.586 acres. Lot 1R is proposed to be 7.566 acres. The parcel is located within the Single Family Residential (R1) zoning district. Ms. Bassett shared her screen to review the plan.

Mr. Thompson noted that it appears that access will need to cross over an intermittent stream. Mr. Chad Stafford, Civil Engineer, Penn Terra stated that it is essentially a water swale from the mountain above and there is an existing pipe at the crossing. There is an agreement in place between the two homeowners. Mr. Crassweller expressed concerns with the mountainside because of the slope and the water that is there. Ms. Bassett and Ms. Wargo stated that is why the Township requires a land development plan for steep slopes and will address those issues. Mr. Crassweller stated there have been a lot of problems with the subdivision in the past and is not in favor. Ms. Bassett noted that the Public Works Department installed new inlets and stormwater piping and it has helped a lot.

Mr. Keough expressed his concerns with construction vehicles being able to cross the culvert and perhaps place a note on the plan. Mr. Keough suggested adding further language to the plan regarding no further subdivision will be allowed.

Mr. Thompson also concurs with Mr. Keough regarding construction vehicles. Mr. Stafford noted that the driveway is wider than Sycamore Drive at 26 feet wide.

Mr. Keough moved that the Planning Commission **make** a recommendation to the Board of Supervisors to approve or deny the draft ordinance. Mr. Thompson seconded the motion. The motion passed 4-1 with Mr. Crassweller opposing.

**VII. COMMUNITY PLANNING – CONTINUED**

**B. MOBILE FOOD VENDOR SURVEY**

Ms. Wargo noted that at the September 13th Planning Commission meeting, staff was directed to investigate the viability of meeting with the local mobile food vendors to discuss the Township's regulations for food trucks and allow for input. This task has proven to be unfeasible due to lack of contact information for the vendors. As an alternative, staff has created a draft survey for review and input by Planning Commission that the Township can distribute to vendors for their input, as well as include on the Township's social media accounts. Included in the agenda is the

draft survey.

Mr. Binney would like to know if any of them operate in the vicinity of other restaurants. Ms. Bassett stated that Ferguson Township doesn't allow them to be in the vicinity of other eating establishments. Ms. Wargo noted that the current ordinance was changed to allow with permission from the property owner.

Mr. Keough stated that he wants the mobile food vendors to be successful and to provide a service. Mr. Keough would like to know what their business model would be and suggested having a meeting with them. Ms. Wargo noted that staff has contacted the food inspector for vendor contact information. Ms. Wargo noted that it is not an easy process to find contact information and noted that the manager is not comfortable postponing amendments to hold a meeting with all the vendors. Ms. Wargo recommended that a meeting in the winter would be ideal. Mr. Keough stated he has no problem in delaying discussions but expressed concerns with not having the meeting due to the unfeasibility. Mr. Keough stated that the Planning Commission is going to initiate an additional study to try to make it better and will give to the Board of Supervisors later.

Mr. Binney suggested talking with the vendor at Myers Dairy for their business model. Ms. Rittenhouse suggested having a sub-committee because in order to get the vendors together, you need an inside person who is in the food industry. Ms. Rittenhouse stated it is difficult to reach the vendors, but perhaps talk with Clem to pull them all together. Ms. Wargo will reach out to Clem.

Ms. Wargo stated that since COVID-19 there have been no issues with the food trucks near restaurants.

Mr. Steinberg stated that there are restaurants that don't want a food truck on the public street outside of their venue. Mr. Binney concurred and suggested having a waiver from a restaurant that states it can't be within so many feet of the establishment.

Mr. Keough noted that we don't regulate competing restaurants and asked why government is imposing regulations with the food truck industry. Mr. Steinberg stated that food trucks involve the township roads, so it needs to have regulations.

Mr. Crassweller suggested adding the places that they can't be located to keep it simple. Ms. Wargo noted that they did look at that idea and did add the other zoning districts to the ordinance.

Mr. Thompson added that there are food trucks offering Grubhub.

## **VIII. OFFICIAL REPORTS AND CORRESPONDENCES**

### **A. Board of Supervisors**

Ms. Bassett reported that the Board approved the Flag Lot on Greenwood Circle and discussed the official map.

### **B. CRPC Report**

Dr. Taricani reported that they will be meeting next week during the lunch hour.

### **C. Land Development Plans**

Ms. Bassett reported that the Centre Animal Hospital submitted a plan to expand their building and a lot consolidation.

**D. Staff Updates**

Ms. Wargo reported they will be interviewing for Faye Drawl's position in mid-October.

Mr. Keough stated that the developer for the student housing building on the corner of Buckhout and College Avenue has started surveying. Mr. Keough noted that one of the survey markers is 3 feet into the alley next to the adjacent apartment building owned by the Yocum's. Mr. Keough asked if staff could look into the survey marker. Ms. Wargo will investigate.

Mr. Thompson noted that PennDot held meetings to discuss the [State College Area Connector project.](#)

Mr. Keough asked if there has been any indication of a high-speed railway coming from Philadelphia through State College onto Pittsburgh. Mr. Thompson stated that he can't confirm but did hear something about it. Mr. Thompson watched a recorded roundtable discussion regarding new service routes for Amtrak that will connect Pittsburgh to Philadelphia to New York.

**IX. Adjournment**

Mr. Binney made a motion to adjourn the September 27, 2021, Planning Commission meeting at 8:45 p.m.

Respectfully Submitted,

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Rob Crassweller, Secretary  
For the Planning Commission



# TOWNSHIP OF FERGUSON

3147 Research Drive • State College, Pennsylvania 16801  
Telephone: 814-238-4651 • Fax: 814-238-3454  
[www.twp.ferguson.pa.us](http://www.twp.ferguson.pa.us)

TO: Planning Commission

FROM: Kristina Bassett, Community Planner

DATE: October 7, 2021

SUBJECT: Orchard Square Preliminary Land Development Plan

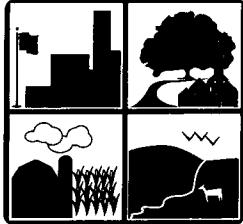
The land development plan proposes the construction of a 19,856 square foot Commercial/retail shopping center with associated parking and utilities. As proposed, there will be 3 retail store fronts and 119 parking spaces, including 5 ADA handicap spaces provided. The retail spaces are proposed to be 10,722 square feet, 6,483 square feet and 2,566 square feet.

The lot, Tax Parcel 24-4-67F, is 0.115 acres. It is located in the General Commercial (C) Zoning District and within the Corridor Overlay District.

Staff has reviewed the proposed Orchard Square Preliminary Land Development Plan and is not recommending any conditions be included with the plan.

**Recommended Motion:** the Planning Commission make a recommendation to the Board of Supervisors to approve the Orchard Square Preliminary Land Development Plan pending outstanding comments attached below.

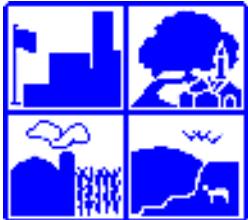
**Staff Recommendation:** The Planning Commission make a recommendation to the Board of Supervisors to approve the Orchard View Preliminary LDP, dated August 11, 2021 and last revised on September 29, 2021 pending outstanding comments.



# TOWNSHIP OF FERGUSON

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- TO:** Kristina Bassett, Community Planner
- FROM:** Jeffrey Ressler, Zoning Administrator *JR*
- DATE:** October 7, 2021
- SUBJECT: Orchard Square Land Development Plan 2<sup>nd</sup> Review**
- 
1. The location of signs as regulated by the Signs Regulations must be included on the plan. [Chapter 19, Part 1] (Chapter 22, Section 401.1.A.(1).m) **Comment Addressed.**
  2. The face area of signs as regulated by the Signs Regulations must be included on the plan. [Chapter 19, Part 1] (Chapter 22, Section 401.1.A.(1).m) **Comment Remains**
  3. The height of signs as regulated by the Signs Regulations must be included on the plan. [Chapter 19, Part 1] (Chapter 22, Section 401.1.A.(1).m) **Comment Remains.**
  4. The proposed ground sign in the Corridor Overlay District shall not exceed ten feet in height above grade except that the sign height is permitted to be an additional three feet higher with a landscaped base elevated with each mounding up to three feet tall. Chapter 27-401.1.H. **Comment Remains.**
  5. Proposed loading zone is not permitted in drive aisles. **Comment Addressed.**
  6. Handicapped parking signs should also list that vehicles may be towed. **Comment Addressed.**
  7. Proposed street address and address for each unit, if applicable, must be included on the plan. (Chapter 22, Section 401.1.A.3.q) **Comment Addressed.**
  8. The roof top mechanicals shall be screened by fencing or other means at least  $\frac{3}{4}$  the height of the system. Chapter 27-401.1.G, **Comment Addressed.**
  9. A statement of the calculations used to determine the number of required parking spaces must be included on the plan. (Chapter 22, Section 401.C.1.e) The required parking can be calculated on Net Floor area instead of gross floor area. **Comment addressed.**
  10. The property is located in the Source Water Protection Overlay District Zone II. Note number 2a on the plan should be revised to add that this property is in the Source Water Protection Overlay District Zone II. **Comment Addressed.**
  11. The plan will need to contain a notes as required in Chapter 22-514.2.A. **Comment Addressed.**
  12. The plan must comply with the requirements of Chapter 22-514.2.B.1. **Comment Addressed.**
  13. The registered design professional shall prepare a report to the Ferguson Township Planning Commission demonstrating compliance with the requirements of this section, including any recommended mitigating measures designed to ensure compliance. Chapter 22-514.2.D. **Comment Addressed**



## TOWNSHIP OF FERGUSON

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TO: Kristina Aneckstein, Community Planner  
FROM: Ron Seybert, Township Engineer  
DATE: October 5, 2021   
SUBJECT: Orchard Square Preliminary Land Development Plan  
Third Review (ES – 426)

I have completed my third review of the '*Orchard Square Preliminary Land Development Plan*' consisting of 15 sheets and '*Orchard Square Stormwater Management Site Plan*' consisting of 5 sheets both as prepared by PennTerra Engineering, dated August 11, 2021, last revised September 29, 2021. The following are comments from my review. All prior resolved comments have been removed.

Stormwater Management Site Plan Set:

2. Once all of the plan comments from NTM are addressed, I will prepare the stormwater agreement for applicant signature. **Pending.**

If you or the applicant have any questions on these comments, please contact me.

Copy: Scott Brown/Aaron Jolin, NTM

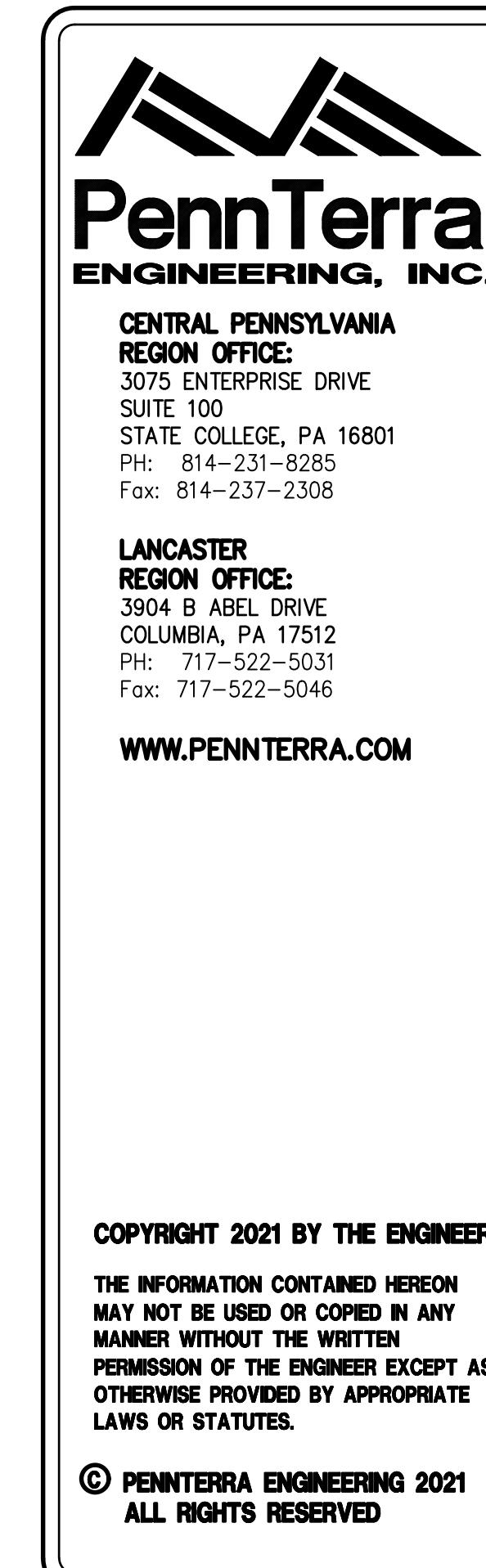
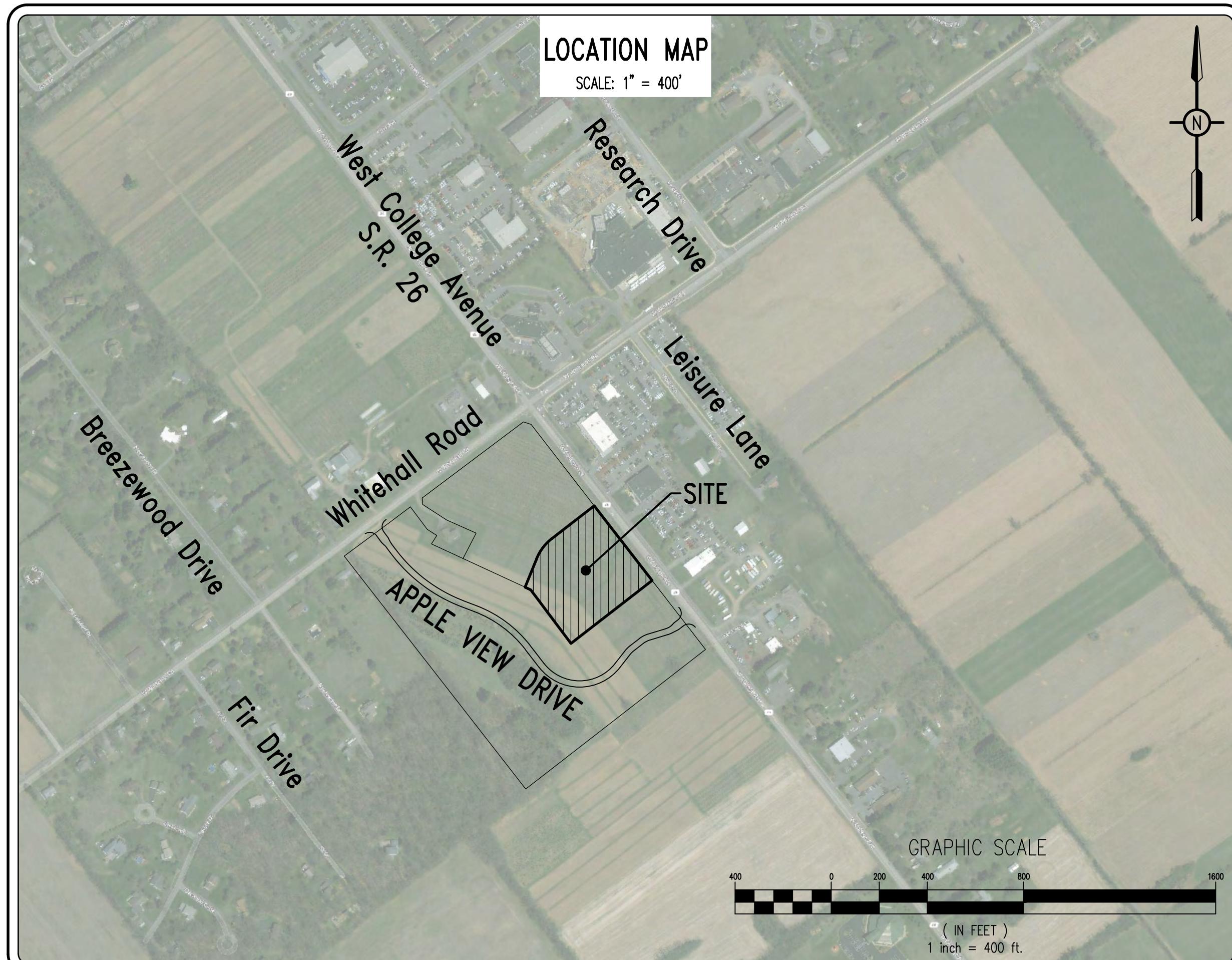
# ORCHARD SQUARE

# PRELIMINARY LAND DEVELOPMENT PLAN

# FERGUSON TOWNSHIP \* CENTRE COUNTY \* PENNSYLVANIA

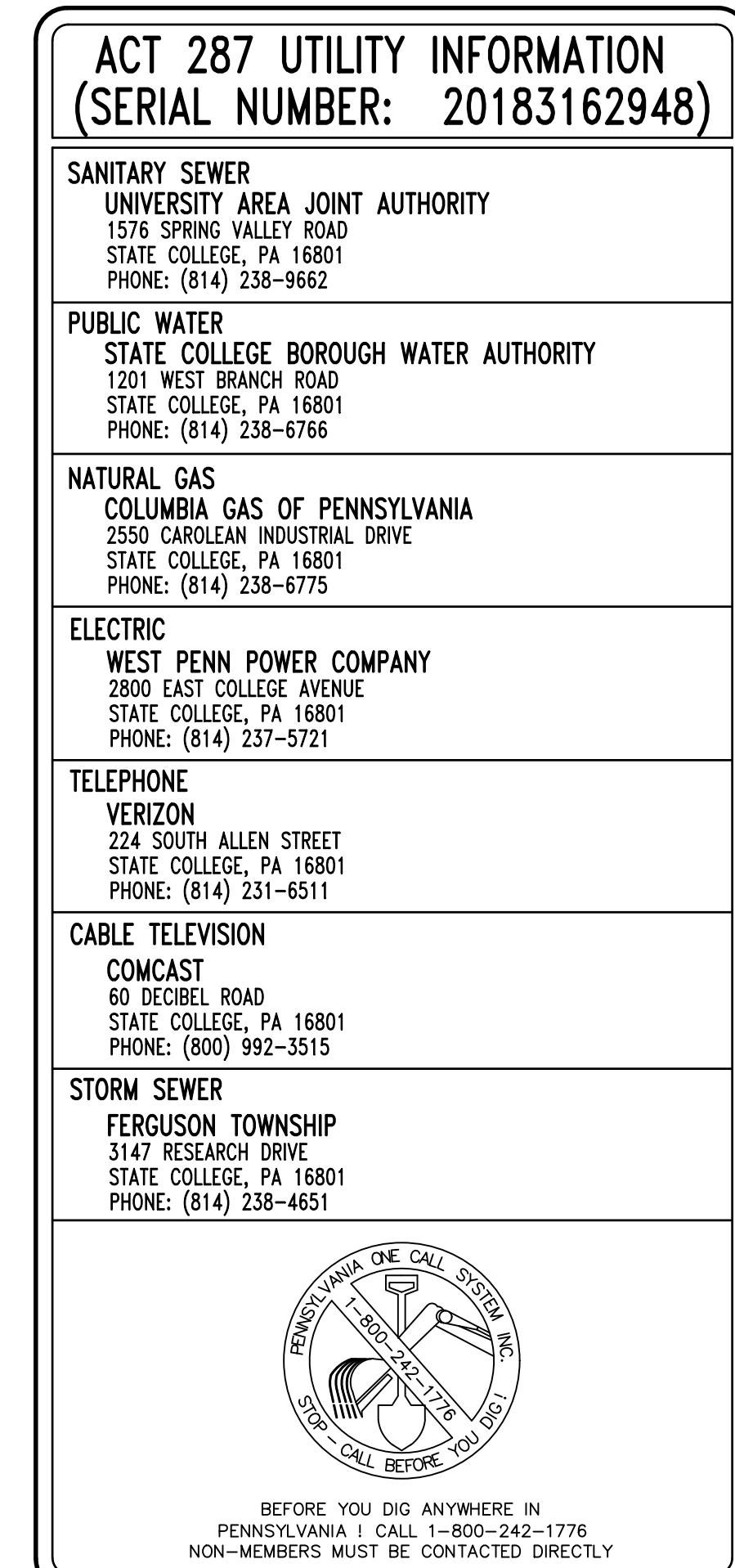
# AUGUST 11, 2021

LAST REVISED SEPTEMBER 29, 2021



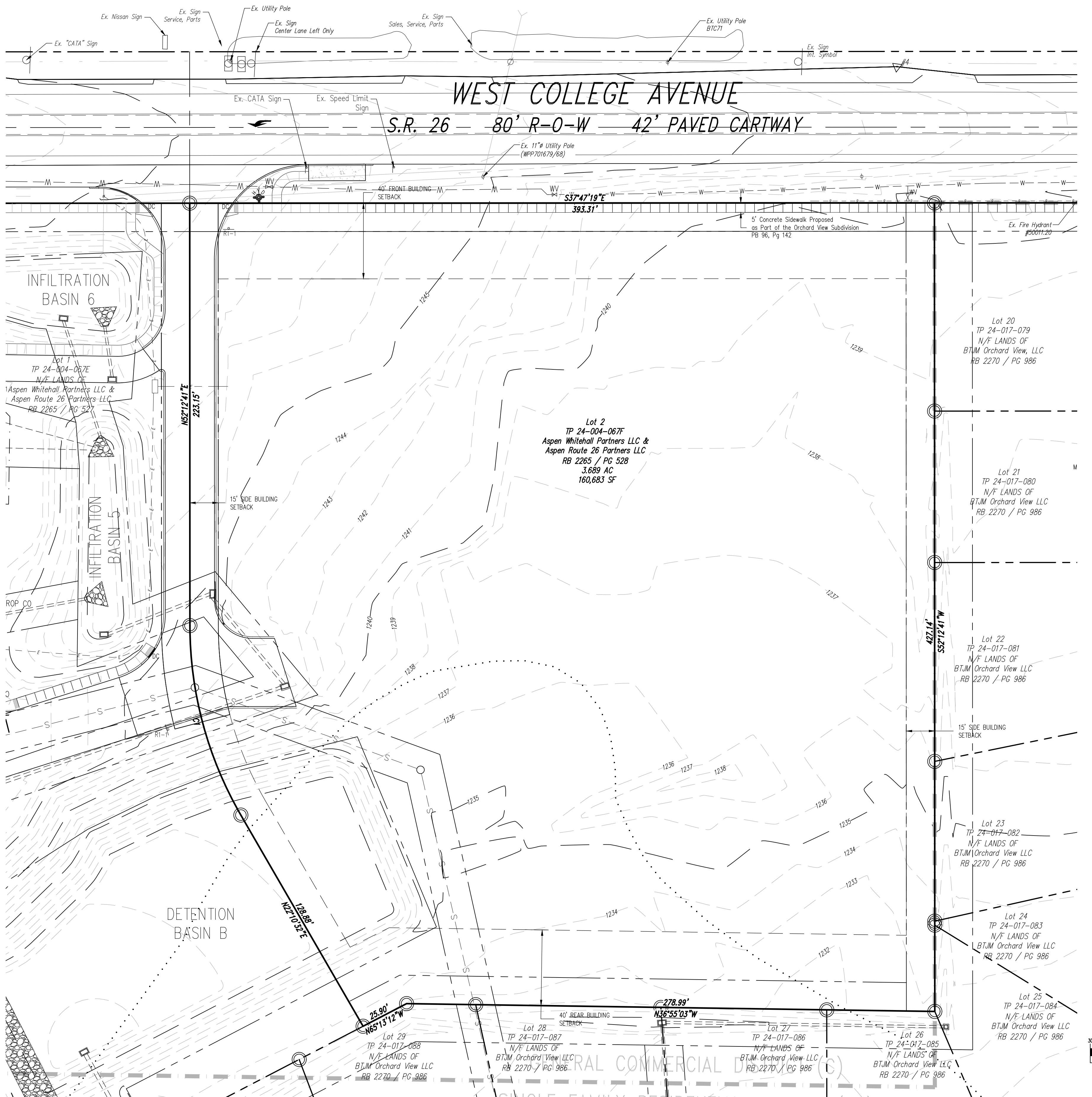
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ES3	EROSION & SEDIMENTATION CONTROL DETAILS



## GENERAL SITE DEMOLITION NOTES

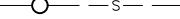
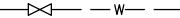
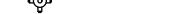
1. The Contractor is responsible for obtaining all local and state permits required for demolition work.
  2. The Contractor shall indemnify and hold harmless the Owner and/or architect and engineer for any and all injuries and/or damages to personnel, equipment and/or existing facilities in the demolition and construction described in the plans and specifications.
  3. Existing conditions as depicted on these plans are general and illustrative in nature and do not include mechanical, electrical and miscellaneous structures. It is the responsibility of the Contractor to examine the site and be familiar with existing conditions prior to bidding on the demolition work for this project. If conditions encountered during examination are significantly different than those shown, the Contractor shall notify the architect and engineer immediately.
  4. All existing utilities not to be removed or abandoned are to remain operational at all times. Appropriate existing utilities shall remain in service until replacement/relocated utilities are operational.
  5. All demolition waste and construction debris shall be removed by the Contractor and disposed of in a state approved waste site and in accordance to all local and state codes and permit requirements.
  6. All utility removal, relocation, cutting, capping and/or abandonment shall be coordinated with the appropriate utility company.
  7. The burning of cleared material and debris shall not be allowed.
  8. Erosion and sedimentation control measures around areas of demolition shall be installed prior to initiation of demolition activities. Refer to plan and details for site specific information including tree protection details, if necessary.
  9. Asbestos or hazardous materials, if found on site, shall be removed by a licensed hazardous materials Contractor. Contractor shall notify Owner immediately if hazardous materials are encountered.
  10. Contractor shall protect all corner pins, monuments, property corners, and benchmarks during demolition activities. If disturbed, Contractor shall have disturbed items reset by a licensed surveyor at no additional cost to the Owner.
  11. Contractor shall adhere to all local, state, federal, and OSHA regulations operating demolition equipment around utilities.
  12. Contractor shall provide and maintain traffic control measures in accordance with the PennDOT standards, and as required by local agencies working in and/or along streets, roads, highways, etc. It shall be the Contractor's responsibility to obtain approval and coordinate with local and/or state agencies regarding the need, extent, and limitations associated with installing and maintaining traffic control measures.
  13. Contractor shall protect at all times adjacent structures and items from damage due to demolition activities.
  14. Contractor shall coordinate existing facilities utility disconnects with the Owner a minimum 7 days prior to anticipated demolition of structures.
  15. Contractor shall refer to Construction Plans for other pertinent information where applicable.
  16. Contractor shall replace or repair to Owner's satisfaction all curb, utilities, sidewalks, landscaping, etc. damaged during construction that are not indicated to be removed.
  17. Contractor shall be responsible for all costs and work required to adjust existing and proposed utilities and appurtenances to finish grades within the limit of work.
  18. All paving to be removed shall be sawcut to provide a sharp clean edge. All sidewalks to be removed shall be sawcut at the nearest joint. Existing pavement shall be removed as required for new curb, walkway, or utility construction.
  19. Contractor shall verify the location of manholes, inlets valves, etc. Contractor shall test pit existing utilities as deemed necessary within the limits of construction to determine the exact location and depth as required. Report any discrepancies from that indicated on the plan to the architect. All existing utilities shall be retained unless marked otherwise, and appurtenances shall be adjusted to final grade. Damage to existing conditions and utilities to remain shall be repaired as required to the Owner's satisfaction at the expense of the Contractor.
  20. Contractor shall coordinate with utilities companies on installation, relocation or replacement of electrical, phone, gas and cable services.



# *SURVEY FEATURES LEGEND*

- *Property Line, Lot Line or Right of Way Line*
- - - *Adjoining Property Line*
- — — *Building Setback Line*
- - - - - *Easement Line*
- — — — — *Zoning Boundary*
- ◎ *Property Corner Found*
- Property Corner To Be Set*
- △ # *PennTerra Control Point*
- ◆ *Project Benchmark*

# *EXISTING FEATURES LEGEND*

 Existing Curbing & Edge of Pavement  
 Existing Bituminous Areas  
 Existing Contours w/ Elevation (1's & 2's)  
 Existing Contours w/ Elevation (5's & 10's)  
 Existing Sanitary Sewer w/ Manhole  
 Existing Water Line w/ Valve  
 Existing Storm Sewer Line w/ Inlet  
 Existing Overhead Utility Line w/ Pole  
 Existing Gas Line  
 Existing Underground Electric  
 Existing Fire Hydrant  
 Existing Manhole  
 Existing Utility Pole  
 Existing Guy Wire  
 Existing Sign  
 Existing Soil Limit Line / Boundary

## **EXISTING CURVE TABLE**

LENGTH	RADIUS	TANGENT	CHORD DIRECTION	CHORD	DELTA
'04.85'	200.00'	53.66'	N 37° 11' 36" E	103.65'	30° 02' 10"

A circular registration stamp. The outer ring contains the words "COMMONWEALTH OF PENNSYLVANIA" in a circular pattern. Inside this, a smaller circle contains the words "REGISTERED PROFESSIONAL". Below this is another circle containing "NEVIN L. GROVE". The innermost circle contains "LAND SURVEYOR" and "No. SU061171".

igner \_\_\_\_\_ CJW  
tsman \_\_\_\_\_ CJW  
.Manager \_\_\_\_\_ MAT  
veyor \_\_\_\_\_ MAK/JDF  
meter Ck. \_\_\_\_\_  
k \_\_\_\_\_ 543 Pg \_\_\_\_\_ 1

ut \_\_\_\_\_ EX. CON & DEMO

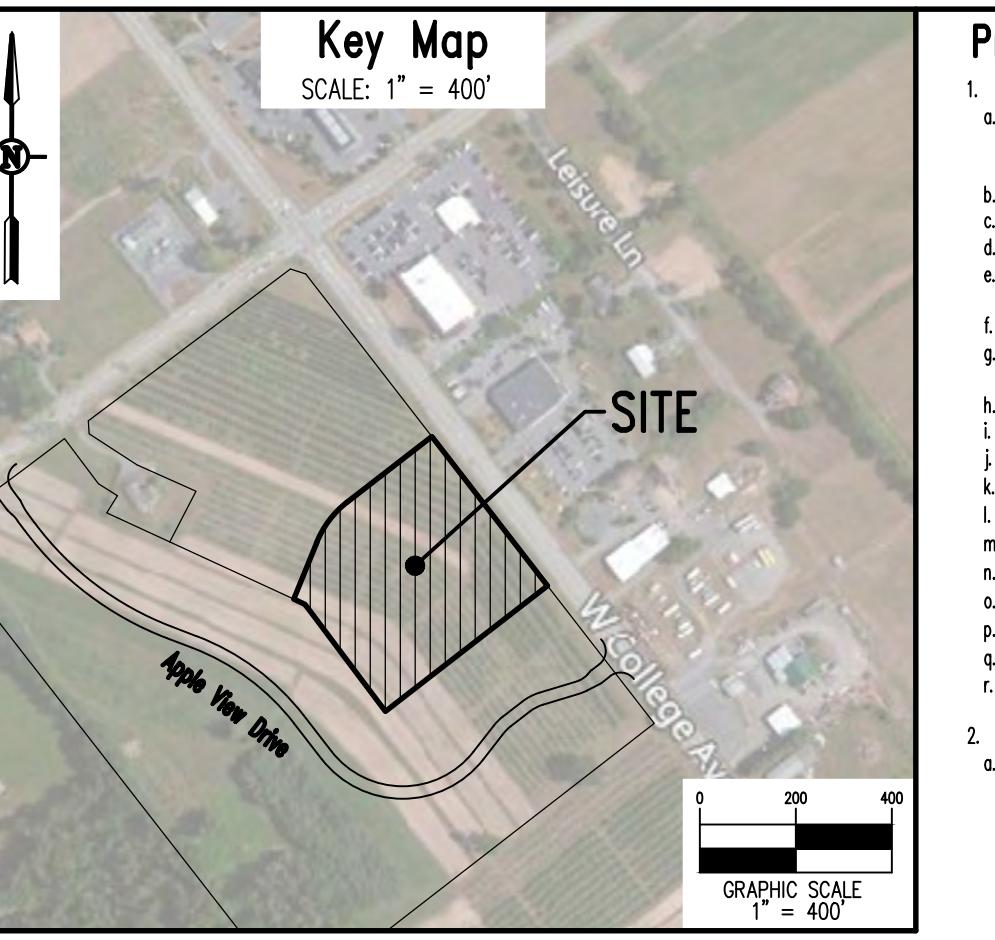
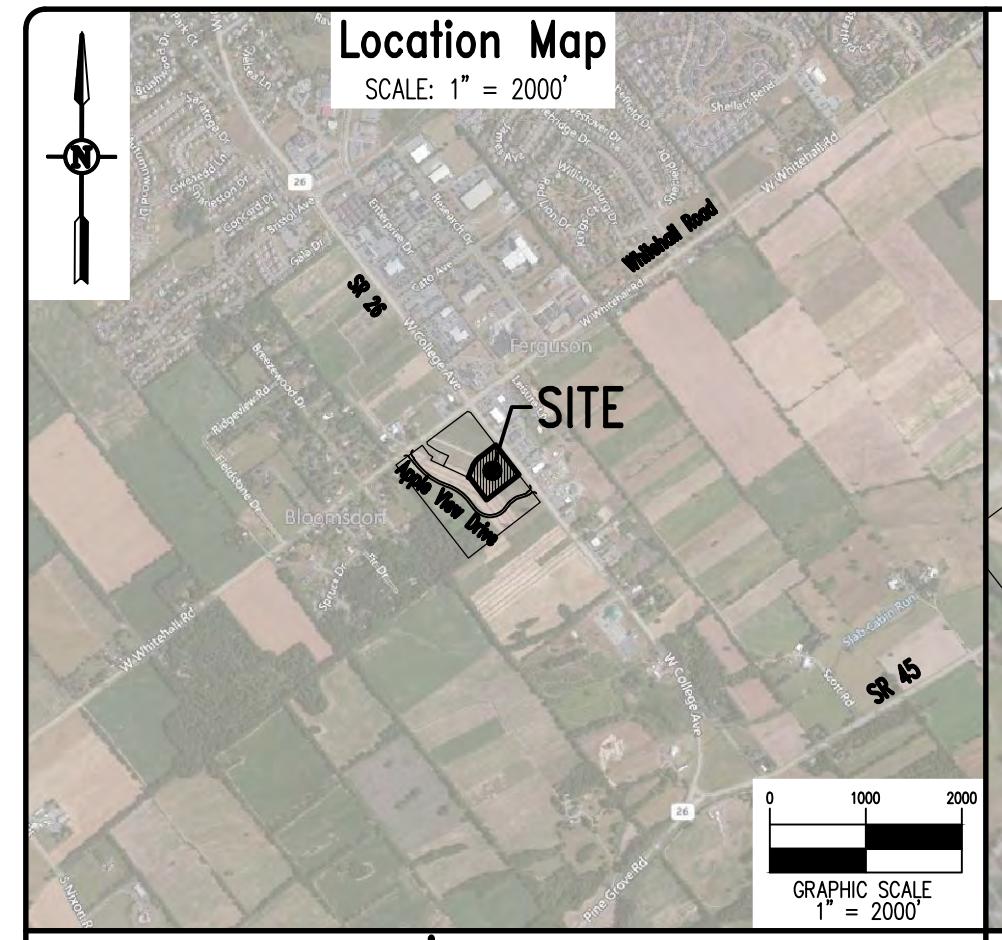
/21	REVISED PER TWP COMMENTS
/21	REVISED PER TWP COMMENTS
	Description

**GRUGSON TOWNSHIP  
CENTRE COUNTY  
UNIVERSITY VANDIA**

# PRELIMINARY LAND DEVELOPMENT PLAN

## **EXISTING CONDITIONS & DEMOLITION PLAN**

PROJECT NO.	
<b>17125.10</b>	
DATE	
<b>AUGUST 11, 2021</b>	
SCALE	SHEET NO.
" = 30'	<b>2</b>



#### Project Notes:

1. General Site Information:  
a. Owner Information: Aspen Whitehall Partners LLC / Aspen Route 26 Partners LLC  
116 Union Avenue  
Route 26, P.O. Box 2002  
24-04-067F  
b. Tax Parcel Numbers: Record Book 2265, Page 528  
c. Deed Information: 3.689 AC (160.683 SF)  
d. Total Parcel Area: 3283 West College Avenue  
State College, PA 16801  
e. Property Address: Ferguson Township  
f. Municipality: General Commercial District (C)  
g. Zoning: Corridor Overlay District  
h. Existing Site Use: Vacant Lot  
i. Proposed Site Use: Commercial Shopping Center  
j. Minimum Lot Size: 0.15 AC (6,000 SF)  
k. Existing Building Coverage: 40% (7,200 SF)  
l. Proposed Building Coverage: 125% (19,862 SF)  
m. Maximum Building Height: 40'  
n. Proposed Building Height: 26'  
o. Maximum Impervious: 804 (128,466 SF)  
p. Proposed Impervious: Pavement - 1.3 AC (56,967 SF); Sidewalk - 0.18 AC (7,931 SF); Building - 0.46 AC (19,862 SF)  
q. Total Impervious: 84,760 SF (53%)  
r. Source Water Protection: The site is within the Ferguson Township Source Water Protection Overlay District II

#### 2.

- Zoning (General Commercial/Corridor Overlay):  
Front: 50' - Reduced to 40' per below  
If a property is located in the General Commercial Zoning District, the setback may be reduced to 40' when abutting a corridor street per §27-210.1.C.(2)(b).  
Side: 15'  
Rear: 50' - Reduced to 40' per below  
Rear yard setback as designated in the underlying zoning may be reduced up to 10 feet when the designated rear yard does not abut a corridor street §27-210.1.C.(2)(b).

#### 3.

- Parking:  
a. Required Parking Spaces:  
General Retail (10,370 SF): 1 space per 200 SF of Net Floor Area (NFA)  
General Retail (6,330 SF): 1 space per 200 SF of Net Floor Area (NFA)  
General Retail (2,395 SF): 1 space per 200 SF of Net Floor Area (NFA)

- b. Parking Calculation:  
10,370 SF General Retail Store / 200 SF NFA = 52 Spaces  
0.46 AC General Retail / 200 SF NFA = 32 Spaces  
2,395 SF General Retail / 200 SF NFA = 12 Spaces  
Total Parking Spaces Required = 96 Spaces

- c. Total Parking Spaces Provided: 116 Spaces including 5 ADA Handicap Spaces

- d. Bicycle Parking Calculation:  
Short Term General Retail (10,305 SF): 1 space per 5,000 SF of Net Floor Area (NFA)  
10,305 SF General Retail / 5,000 SF NFA = 2 Short Term Bicycle Parking Spaces  
Long Term: General Retail (10,305 SF): 1 space per 10,000 to 12,000 SF of Net Floor Area (NFA)  
10,305 SF General Retail / 12,000 SF NFA = 2 Long Term Bicycle Parking Spaces

- e. Act 287 Utility Information (Serial Number: 2018362948): All utility locations should be verified prior to any construction. Utility information and locations should be considered approximate.

- a. Water: State College Authority  
1201 West Branch Road, State College, PA 16801; (814) 238-6768

- b. Sanitary Sewer: University Area Joint Authority  
1576 Spring Valley Road, State College, PA 16801; (814) 238-9562

- c. Telephone: Verizon  
224 South Allen Street, State College, PA 16801; (814) 231-6511

- d. Electric: West Penn Power Company  
2200 East College Avenue, State College, PA 16801; (814) 237-5721

- e. Cable television: Comcast  
60 Decibel Road, State College, PA 16801; (800) 992-3515

- f. Gas: Columbia Gas of Pennsylvania  
2550 Cordeau Drive, State College, PA 16801; (814) 238-6775

- g. Storm Sewer: Ferguson Township  
3147 Research Drive, State College, PA 16801; (814) 238-4651

- h. Natural Site Features & Survey Information:

- a. Soil limits and descriptions have been taken from the Natural Resources Conservation Service Web Soil Survey dated March 2019.  
b. There are not wetlands on the site according to the National Wetland Inventory Mapping (U.S. Fish & Wildlife Service) for State College, PA last updated March 2019.

- c. There are no portions of this site located within a Zone "X" 100-year Flood Plain according to the Federal Emergency Management Agency (FEMA) Map titled "Pennsylvania Flood Insurance Rate Maps", effective date May 4, 2003.

- d. Contours shown are taken from survey data collected in the field by PennTerra Engineering, Inc.

- e. Horizontal Datum is Pennsylvania North Zone State Plane Coordinates, North American Datum of 1983 (PA NAD83) U.S. Feet.

- f. Elevation Datum is the North American Vertical Datum of 1988 (NAVD 88).

- g. The Project Benchmark is a masonry nail set on the southwest corner of the electric vault located on Tax Parcel 24-004-067A along West Whitehall Road. Elevation = 1254.41'.

- h. Easement Information:

- a. All lots may be subject to future easements in favor of utility companies. Any future easements will be reflected in the deed for said lot.

- b. All pedestrian walkways, open space lots, drainage easements, detention basins, and all drainage structures located outside of the street R-O-W shall be monitored by Aspen Whitehall Partners LLC/Aspen Route 26 Partners LLC.

- c. For additional information, refer to:

- a. "Horner Farm Final Subdivision Plan", prepared by PennTerra Engineering, Inc., dated April 19, 2019, last revised May 27, 2020 and recorded at Centre County Recorder of Deeds in Book 95, Page 196 on September 22, 2020.

- b. "Orchard View Preliminary/Final Subdivision Plan", prepared by PennTerra Engineering, Inc., dated May 14, 2019, last revised April 8, 2021, and recorded at Centre County Recorder of Deeds in Book 96, Page 142 on May 5, 2021.

- c. "State College, PA (Whitetail Ridge) Stormwater Management Plan", prepared by PennTerra Engineering, Inc., dated April 19, 2021, last revised May 27, 2021 and recorded at Centre County Recorder of Deeds in Book 96, Page 124 on April 6, 2021.

- d. "Stormwater Management Agreement (Declaration of Stormwater Access and Maintenance Easement) for 3281 West College Avenue" dated February 5, 2021 and recorded at Centre County Recorder of Deeds in Record Book 2269, Page 823.

- e. "Horner Farm Final Subdivision Plan, Stormwater Management Site Plan", prepared by PennTerra Engineering, Inc., dated January 27, 2020 last revised May 27, 2020 and os-bult approved of the Stormwater Management Site Plan on \_\_\_\_\_.

- f. "Orchard Square Preliminary Land Development Plan, Erosion and Sedimentation Control Plan", Prepared by PennTerra Engineering, Inc., Dated August 11, 2021 last revised September 10, 2021, and approved by Centre County Conservation District on \_\_\_\_\_.

- g. "Preliminary Geologic Investigation-Horner Farms", prepared by CMT Laboratories, Inc., dated May 1, 2019.

- h. Face area and height for all signs shall conform to the Ferguson Township Sign Ordinance.

10. The date of application for a Zoning Permit is August 11, 2021.

11. This Record Plan Conforms with the plan receiving final approval by the Ferguson Township Board of Supervisors on \_\_\_\_\_, All Improvements are or will be installed in accordance with such plan in a manner and time as specified therein.

12. No proposed structures will have a built-in fire suppression system.

13. As-Built drawings/documentation (including verification of infiltration testing) of the stormwater management facilities must be prepared in accordance with Chapter 26 (§§6-402.4.) and submitted to Ferguson Township at the completion of construction as a prerequisite of issuance of Occupancy Permit or release of the Surety Bond. A narrative and photographic documentation for critical stages of construction and for the infiltration surface prior to placement of filter fabric/greended soils must be submitted to Ferguson Township.

14. A Stormwater Management Site Plan/CSM Plan and Soil Erosion & Sedimentation Control Plan have been prepared for State College PA (Whitehall Road) Lot 2, dated \_\_\_\_\_ and last revised \_\_\_\_\_.

15. A Highway occupancy permit is required pursuant to Section 420 of the Act of June 1, 1945 (P.L. 124, No. 428), known as the "State Highway Law", before driveway access to a State Highway is permitted. The PennDOT Highway Occupancy Permit 02027434 was issued for the construction of the existing shared access drive with IP 24-004-067E of West College Avenue.

16. A pre-construction conference is required prior to starting work on the stormwater management BMPs.

17. Approved Stormwater Management Site Plans must be on site at all times during construction.

18. A Declaration of Easements, Covenants, and Restrictions (DCR) between the owners of Tax Parcel 24-004-067E (Lot 1) and Tax Parcel 24-004-067 (Lot 2), and the Lessee/holder of Lot 1 (Sheetz, Inc.) for the construction and maintenance of shared access and stormwater management facilities located on Lots 1 and 2. The DCR Agreement is recorded in RB 2269 PG 666 at the Centre County Recorder of Deeds Office.

19. Per Appendix A, Source Water Protection Overlay District Map, dated January 2, 2019. The development site is within the Township-wide Source Water Protection Zone II Overlay District and is not within 10,000 feet of any of the existing public wells shown in the map.

20. Storage and Use of Chemicals shall be comply with all associated state and federal laws.

#### Owner's Certification

State of \_\_\_\_\_  
County of \_\_\_\_\_

On the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_  
personally appeared before me and certified that they were the owners of the properties shown on this plan and acknowledge the same to be their act and plan and designs, the same to be recorded as such, according to the law.

witness my hand and seal, this date \_\_\_\_\_

Notary Public Commission Expires \_\_\_\_\_

Ferguson Township Planning Commission Approved

Chairman Date \_\_\_\_\_

Secretary Date \_\_\_\_\_

#### Township Supervisors

Ferguson Township Supervisors Approved

Chairman Date \_\_\_\_\_

Secretary Date \_\_\_\_\_

#### Township Engineer Certification

I, \_\_\_\_\_, have reviewed and hereby certify that the plan meets all engineering design standards and criteria of the Ferguson Township Code of Ordinances.

#### Design Engineer Certification

I, \_\_\_\_\_, hereby certify that this plan meets all design requirements of the Subdivision and Land Development Ordinance, Zoning Ordinance and all other applicable Chapters of the Ferguson Township Code.

#### Professional Land Surveyor Certification

I, Nevin L. Grove, a Professional Land Surveyor in the Commonwealth of Pennsylvania, do hereby certify that this plan correctly represents the tracts of lands as shown.

Signature Date \_\_\_\_\_

#### Fire Chief Certification

I have reviewed and hereby certify that the location of Fire Lanes and Fire Hydrants shown on this plan are adequate.

Fire Chief Date \_\_\_\_\_

**PennTerra**  
**ENGINEERING INC.**

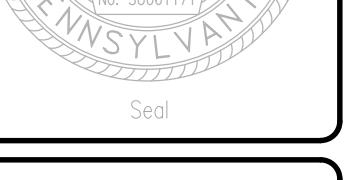
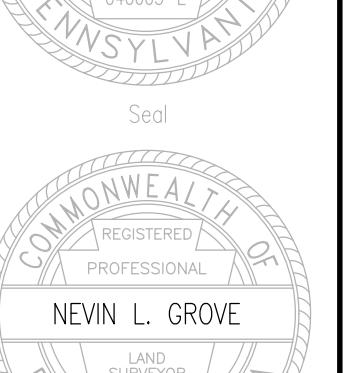
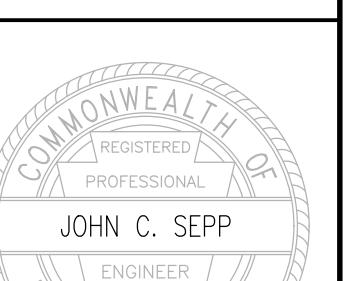
CENTRAL PENNSYLVANIA  
REGION OFFICE:  
3075 ENTERPRISE DRIVE  
SUITE 100  
STATE COLLEGE, PA 16801  
PH: 814-231-8285  
Fax: 814-231-2308

LANTER  
REGION OFFICE:  
3904 B ABEL DRIVE  
COLUMBIA, PA 17512  
PH: 717-522-5031  
Fax: 717-522-5046

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Designer \_\_\_\_\_ CJW

Draftsman \_\_\_\_\_ CJW

Proj Manager \_\_\_\_\_ MAT

Surveyor \_\_\_\_\_ MAK/JDF

Perimeter Ok \_\_\_\_\_

Book 543 Pg 1

File 17125-10-PRE-01-SIGNATURES & NOTES

Layout SIG & NOTES

REVISIONS

#### ORCHARD SQUARE

FERGUSON TOWNSHIP  
CENTRE COUNTY  
PENNSYLVANIA

#### PRELIMINARY LAND DEVELOPMENT PLAN

#### SIGNATURES & NOTES

PROJECT NO. 17125.10

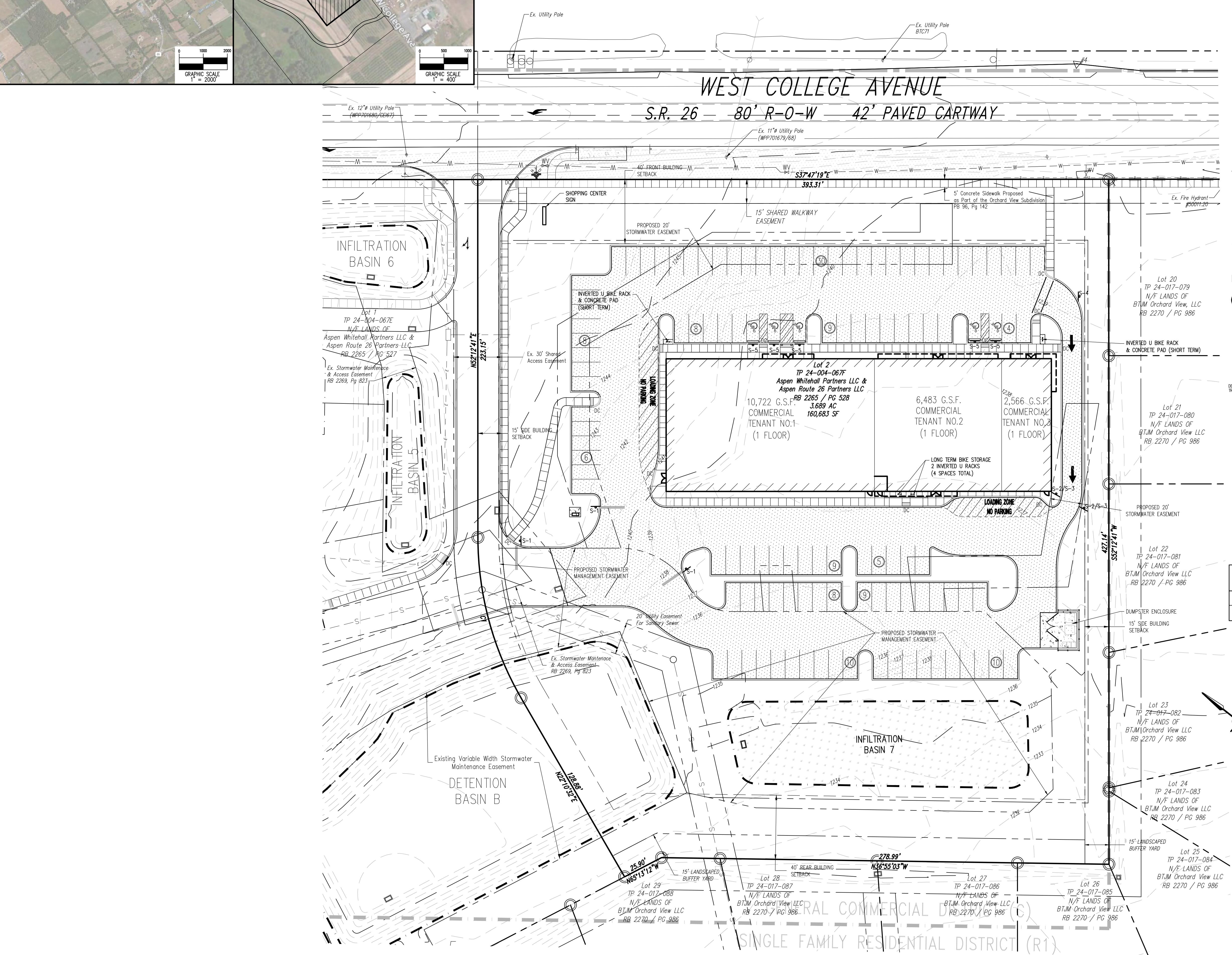
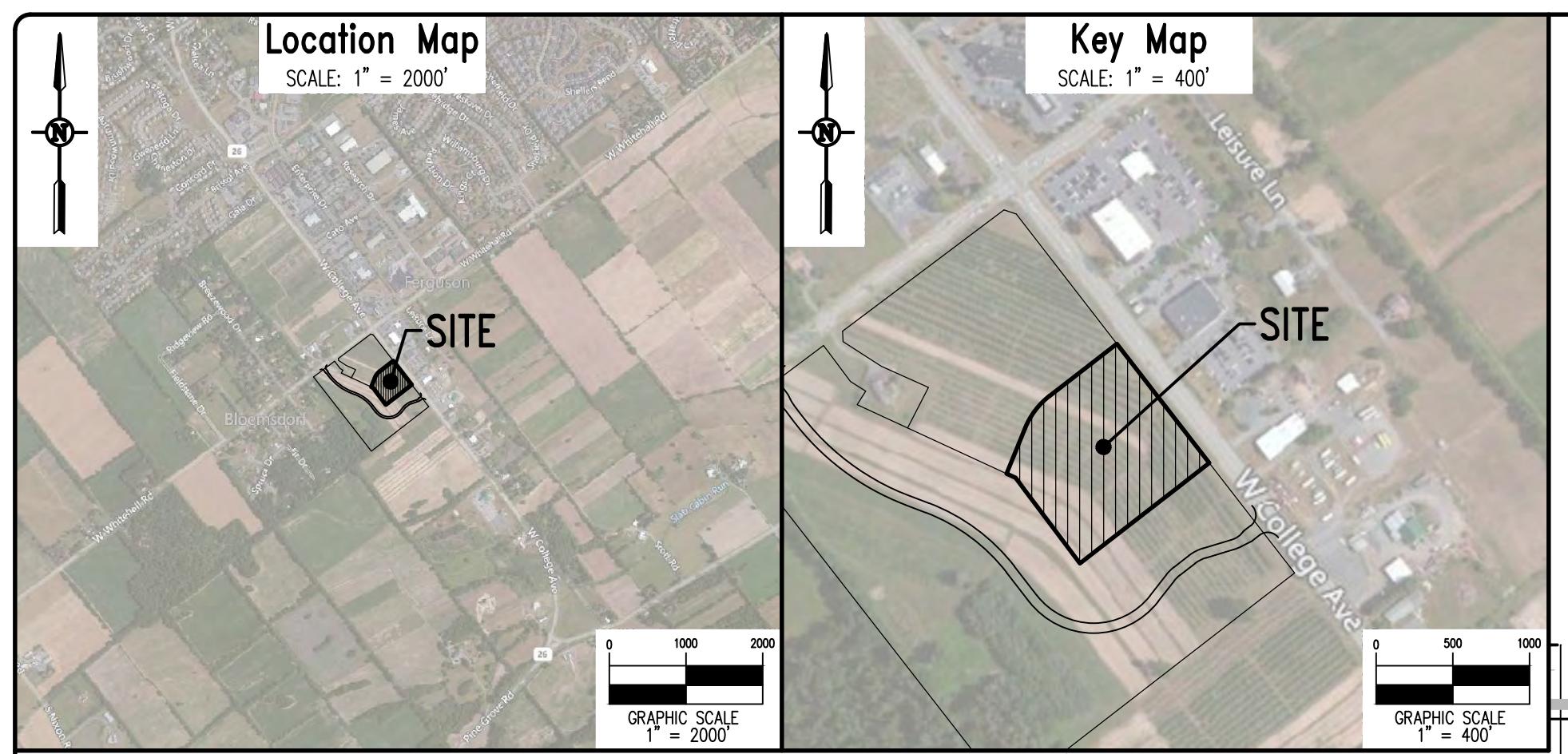
DATE

AUGUST 11, 2021

SCALE

NONE

3



### SURVEY FEATURES LEGEND

- Property Line, Lot Line or Right of Way Line
- - - Adjoining Property Line
- Building Setback Line
- Easement Line
- Zoning Boundary
- Property Corner Found
- Property Corner To Be Set
- △# PennTerra Control Point
- ◆ Project Benchmark

### EXISTING FEATURES LEGEND

- Existing Curbing & Edge of Pavement
- Existing Bituminous Areas
- Existing Contours w/ Elevation (1's & 2's)
- Existing Contours w/ Elevation (5's & 10's)
- Existing Sanitary Sewer w/ Manhole
- Existing Water Line w/ Valve
- Existing Storm Sewer Line w/ Inlet
- Existing Overhead Utility Line w/ Pole
- Existing Fire Hydrant
- Existing Manhole
- Existing Utility Pole
- > Existing Guy Wire
- Existing Sign
- Existing Limit Line / Boundary
- Existing Soil Type

### PROPOSED FEATURES LEGEND

- [Proposed Building Icon] PROPOSED BUILDING
- PROPOSED CURBING & EDGE OF PAVEMENT
- PROPOSED CONCRETE SIDEWALK
- PROPOSED CONCRETE AREAS
- PROPOSED BITUMINOUS PAVEMENT AREAS
- PROPOSED STORMWATER BASIN / BEST MANAGEMENT PRACTICE (BMP) FACILITIES
- PROPOSED PAINTED SITE CROSSWALK (ACCESSIBLE ROUTE)
- PROPOSED PAINTED HANDICAPPED PARKING SYMBOLS
- PROPOSED TRAFFIC FLOW ARROWS (NOT PAINTED)
- PROPOSED PARKING STALL COUNT
- PROPOSED SIGN W/ LABEL
- PROPOSED DEPRESSED CURB W/ CURB TRANSITION
- PROPOSED HANDICAPPED RAMP

### EXISTING CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	CHORD DIRECTION	CHORD	DELTA
C1	104.85'	200.00'	53.66'	N 37° 11' 36" E	103.65'	30° 02' 10"

GRAPHIC SCALE  
30 0 15 30 60 120  
(IN FEET)  
1 inch = 30 ft.

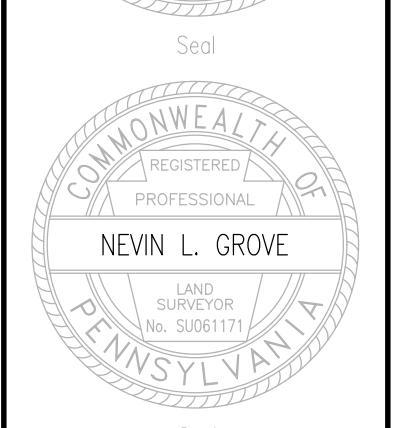
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**ENGINEERING INC.**

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Designer	CJW
Draftsman	CJW
Proj Manager	MAT
Surveyor	MAK/JDF
Perimeter Ok.	
Book	543 Pg 1
File	17125-10-PRE-04-RECORD
Layout	RECORD

9/28/21 REVISED PER IMP COMMENTS  
9/30/21 REVISED PER IMP COMMENTS  
Date Description  
REVISIONS

### ORCHARD SQUARE

FERGUSON TOWNSHIP  
CENTRE COUNTY  
PENNSYLVANIA

### PRELIMINARY LAND DEVELOPMENT PLAN

### RECORD PLAN

PROJECT NO.	17125-10
DATE	AUGUST 11, 2021
SCALE	1" = 30'
SHEET NO.	4

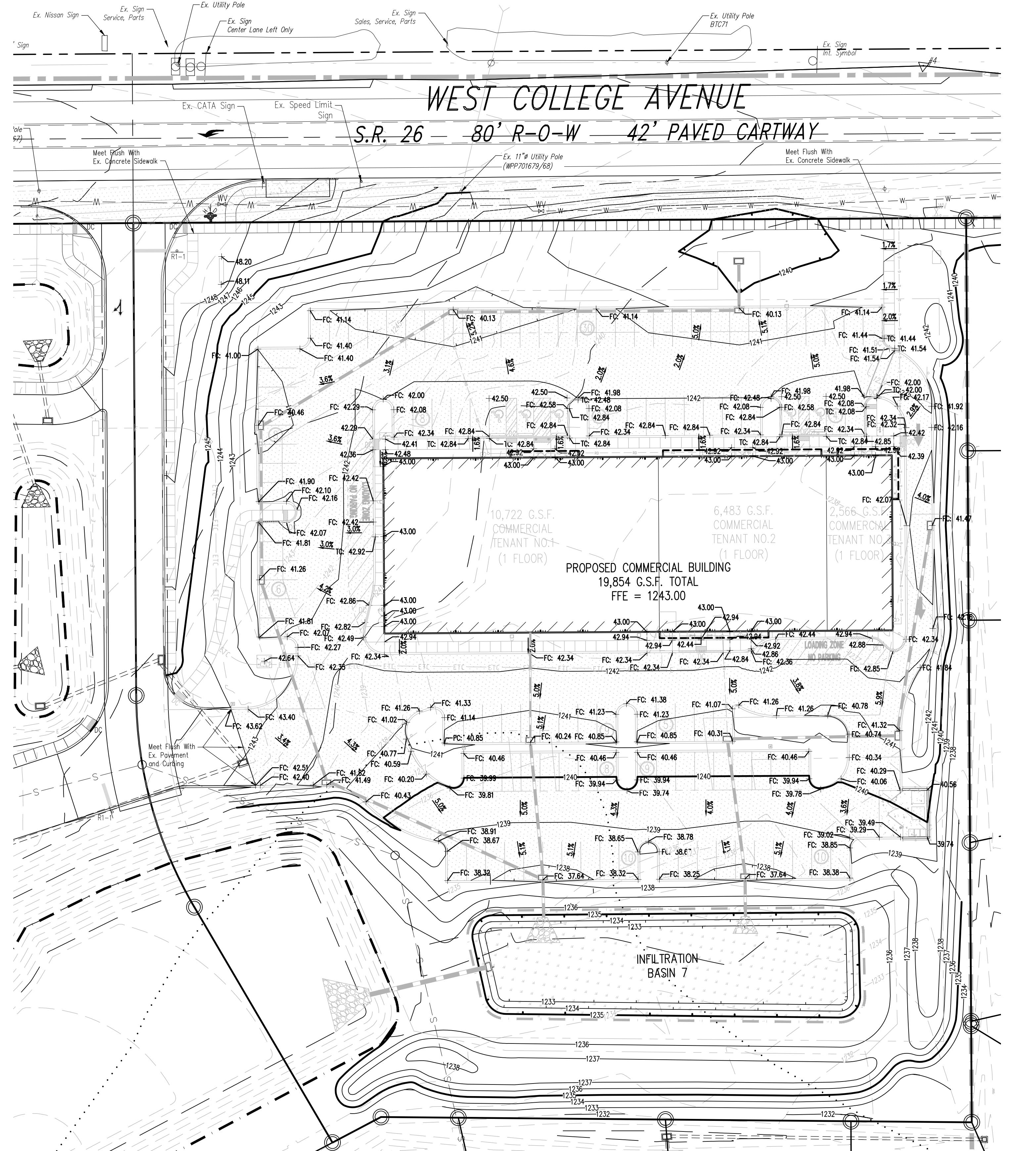


#### GRADING NOTES

- The Contractor shall be responsible for examining the areas and conditions under which the project is to be constructed prior to the submission of a bid. Submission of a bid shall be construed to mean the Contractor has reviewed the site and is familiar with conditions and constraints of the site. Should this be in the General Construction notes?
- Before excavation, all underground utilities shall be located in the field by the proper authorities. The Contractor shall notify one call 1-800-242-1776. The location of all utilities and underground structures are approximate and may not all be shown. It is the responsibility of the Contractor to determine the existence and exact location of all utilities and underground structures.
- All existing trees, vegetation, pavements, concrete foundations, structures and organic topsoil shall be stripped and removed from new construction areas unless noted otherwise.
- Maximum slopes shall be 3:1 (horizontal:vertical) unless noted otherwise.
- All areas not paved shall be sodded, topsoiled, seeded, mulched or landscaped unless otherwise noted in the construction drawings, site specifications or instructed by the Owner.
- Contractor shall refer to the geotechnical report prior to initiation of any earthwork activity.
- Contractor shall refer to other plans within this construction set for other pertinent information.
- The maximum slope within all the handicapped spaces shall be 2.00% in any direction.
- The maximum slope for all on-site sidewalks shall be 4.90% with a maximum cross slope of 2.00% and curb ramps shall have a maximum slope of 8.30%.
- Proposed spot elevation are to bottom of curb unless noted otherwise.
- The Contractor shall notify Owner's testing agency before any placement and compaction of fills on the site. Fill areas shall be prepared and compacted per the project specifications and certified by the Owner's testing agency. Contractor shall be responsible for removal, retesting, and replacement of fills not meeting the specifications. The Contractor is also responsible for all expenses associated with replacement of fills not meeting the specifications.
- All fill material brought on to the job by the Contractor must comply with all applicable D.E.P. regulations regarding clean fill.
- Refer to the latest version of the Orchard Square Stormwater Management Site Plan set.

#### ADA ACCESSIBILITY GUIDELINES

- Notable Guidelines per 2010 ADA Standards for Accessible Route Design:
- The running slope of walking surfaces shall not be steeper than 1:20, and the cross slope of walking surfaces shall not be steeper than 1:48.
  - The clear width of walking surfaces shall be 36 inches minimum.
  - Handrails shall be provided along accessible route walking surfaces with running slopes steeper than 1:20 except at curb ramps.
  - Door openings shall provide a clear width of 32 inches minimum. Openings more than 24 inches deep shall provide a clear opening of 36 inches minimum.
  - Ramp runs shall have a running slope not steeper than 1:12, and the cross slope of ramp runs shall not be steeper than 1:48.
  - The rise for any ramp run shall be 30 inches maximum.
  - Ramps shall have landings at the top and bottom of each ramp run, and must comply with Section 405.7 of the 2010 ADA Standards.
  - Curb ramps shall not be steeper than 1:20, curb ramp side flares shall not be steeper than 1:10, and landings shall be provided at the tops of curb ramps.
  - Curb ramp landings shall be 36 inches minimum, and the landing clear width shall be at least as wide as the curb ramp (excluding flared sides).
  - Parking spaces shall comply with Section 502 of the 2010 ADA Standards.
  - Handicap car parking spaces shall be 96 inches wide minimum and van parking spaces shall be 132 inches wide minimum, and shall have an adjacent access aisle complying with Section 502.3 of the 2010 ADA Standards.
  - Access aisles serving car and van parking spaces shall be 60 inches wide minimum, and shall extend the full length of the parking space(s) they serve.
  - Reference 2010 ADA Standards for Accessible Route Design for additional information.



#### SURVEY FEATURES LEGEND

Property Line, Lot Line or Right of Way Line
Adjoining Property Line
Building Setback Line
Easement Line
Zoning Boundary
Property Corner Found
Property Corner To Be Set
PennTerra Control Point
Project Benchmark

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Existing Overhead Utility Line w/ Pole
Existing Fire Hydrant
Existing Manhole
Existing Utility Pole
Existing Guy Wire
Existing Sign
Existing Soil Limit Line / Boundary
Existing Soil Type



COMMONWEALTH OF PENNSYLVANIA

JOHN C. SEPP

ENGINEER

O400035-1

RECEIVED  
PA STATE ARCHIVES  
2021

17125.10-PRE-06-GRADING

#### UTILITY NOTES

- All site work shall be done in accordance with the plans prepared by PennTerra Engineering Inc., the current requirements of the governing municipality, the applicable sections of the PennDOT standard specifications for roadway construction and all other pertinent federal and state laws.
- The Contractor shall comply at all times with applicable federal, state and local laws, provisions, and policies governing safety and health, including the federal construction safety act (public law 91-54), federal register, chapter xvii, part 1926 of title 29 regulations, occupational safety and health regulations for construction, and subsequent publications updating these regulations.
- The Contractor shall be responsible for examining the areas and conditions under which the project is to be constructed prior to the submission of a bid. Submission of a bid shall be construed to mean the Contractor has reviewed the site and is familiar conditions and constraints of the site.
- Before excavation, all underground utilities shall be located in the field by the proper authorities. The Contractor shall notify one call at 1-800-242-1776. The location of all utilities and underground structures are approximate and may not all be shown. It is the responsibility of the Contractor to determine the existence and exact location of all utilities and underground structures.
- It is the responsibility of the Contractor to bid and perform all utility work in compliance to all applicable local and state codes and regulations. The Contractor shall be responsible for all fees associated with the installation, testing and final acceptance of all proposed utilities construction.
- Contractor shall be responsible for all fees associated with the installation, inspection, testing and final acceptance of all proposed utility construction.
- Contractor shall coordinate with the appropriate utility company on the addition, removal and/or relocation of utilities and utility poles and the extension of all proposed utilities to the proposed facilities.
- All utilities shall be installed in accordance with the specifications of the respective utility company. It is the responsibility of the Contractor to ensure all utilities are installed correctly to meet project requirements whether performed by the Contractor or not.
- Contractor shall verify all utility service connections at the proposed building with the architectural/mechanical/plumbing/electrical plans.
- An as-built drawing of new utility services shall be prepared by the Contractor and submitted to the Owner upon completion of the project.
- All sanitary sewer & water lines shall have 4' minimum coverage.
- All water service lines shall be constructed with 48" minimum cover.
- All public water main construction and all private water main & lateral service construction shall be in accordance with the water authority's standards and specifications.
- All 8" public water lines shall be ductile iron pipe class 52 min manufactured in accordance with AWWA C150 & C151 standards, & shall be cement lined, and bituminous seal coated inside & out in accordance with AWWA C140 standards.
- All private water mains shall be ductile iron Class 52 min manufactured in accordance with ANSI/AWWA C150 & C151 standards, & shall be cement lined, and bituminous seal coated inside & out in accordance with ANSI/AWWA C140 standards.
- All 6" water service lines to fire hydrants off of the 8" water main shall be ductile iron Class 52 manufactured in accordance with ANSI/AWWA C150 & C151 standards, shall be cement lined & shall be bituminous seal coated inside & out in accordance with ANSI/AWWA C140 standards. PVC is acceptable to some authorities.
- All sanitary sewer service laterals shall be in accordance the sanitary sewer authority's standards and specifications. PVC pipe material shall be as shown on plan.

#### STATE COLLEGE BOROUGH WATER AUTHORITY

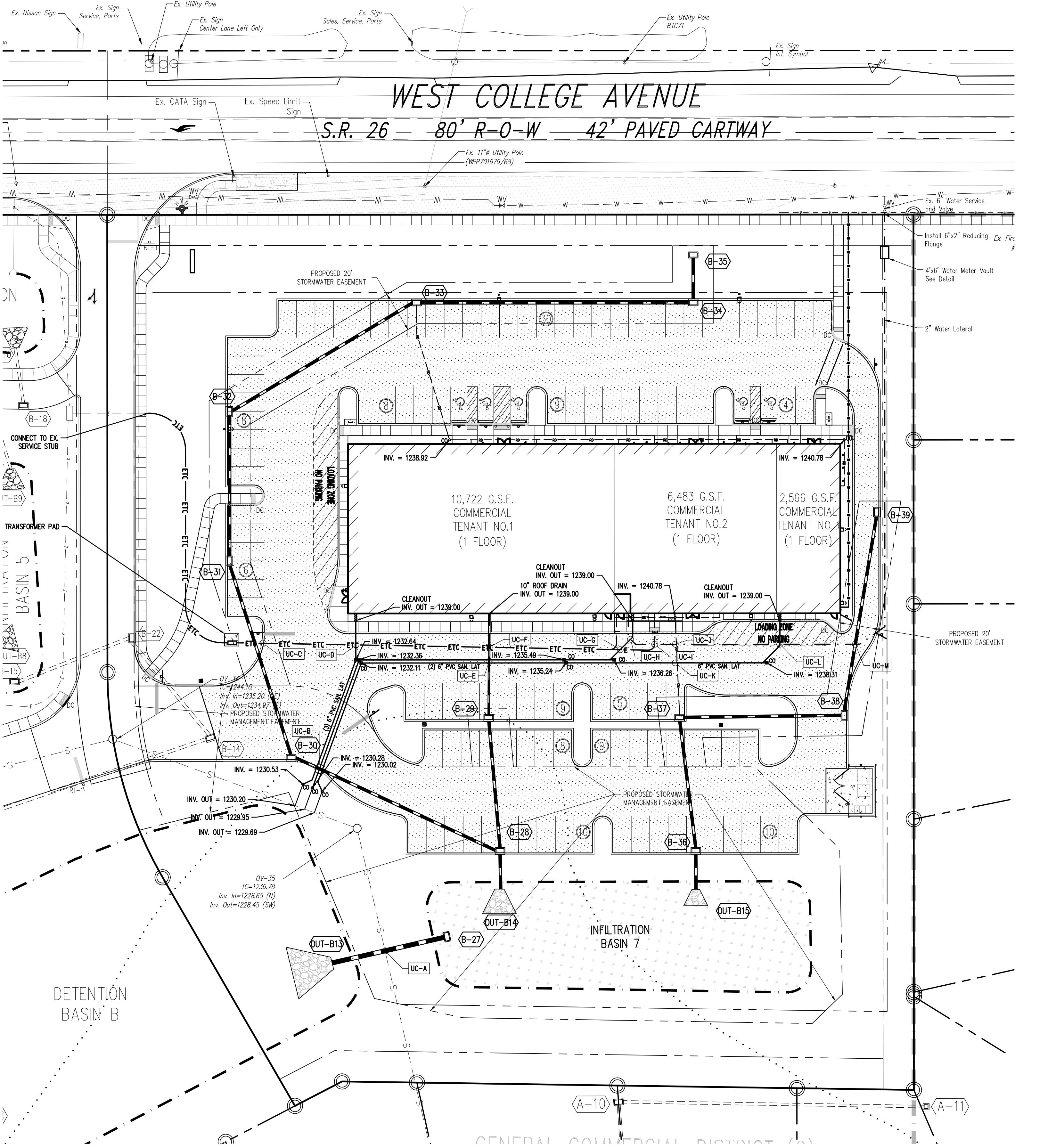
All private water main & lateral service construction shall be in accordance with State College Borough Water Authority's (SCBWA) "material & installation specifications for "private" distribution lines, service lines & fire hydrants", latest edition

#### UNIVERSITY AREA JOINT AUTHORITY

Sanitary sewer laterals & clean-outs beyond UAJA's utility easement shall be PVC schedule 40 in accordance with UAJA specifications. Sanitary sewer laterals within the utility easement shall be PVC SDR-35.

Contractor shall coordinate depths of non-gravity utility lines gravity line invert & other non-gravity lines to obtain adequate depths, clearances, & coverage.

The Contractor shall refer to the architectural plans for the exact location of utility entrances, building dimensions, roof leaders exit doors, exit ramps, and porches. All site work shall be done in accordance with the plans prepared by PennTerra Engineering, the current regulations of the governing municipality, and all other pertinent federal, state & local laws. Any conflicts between the architectural plans and site plans shall be reported immediately to the Owner's representative

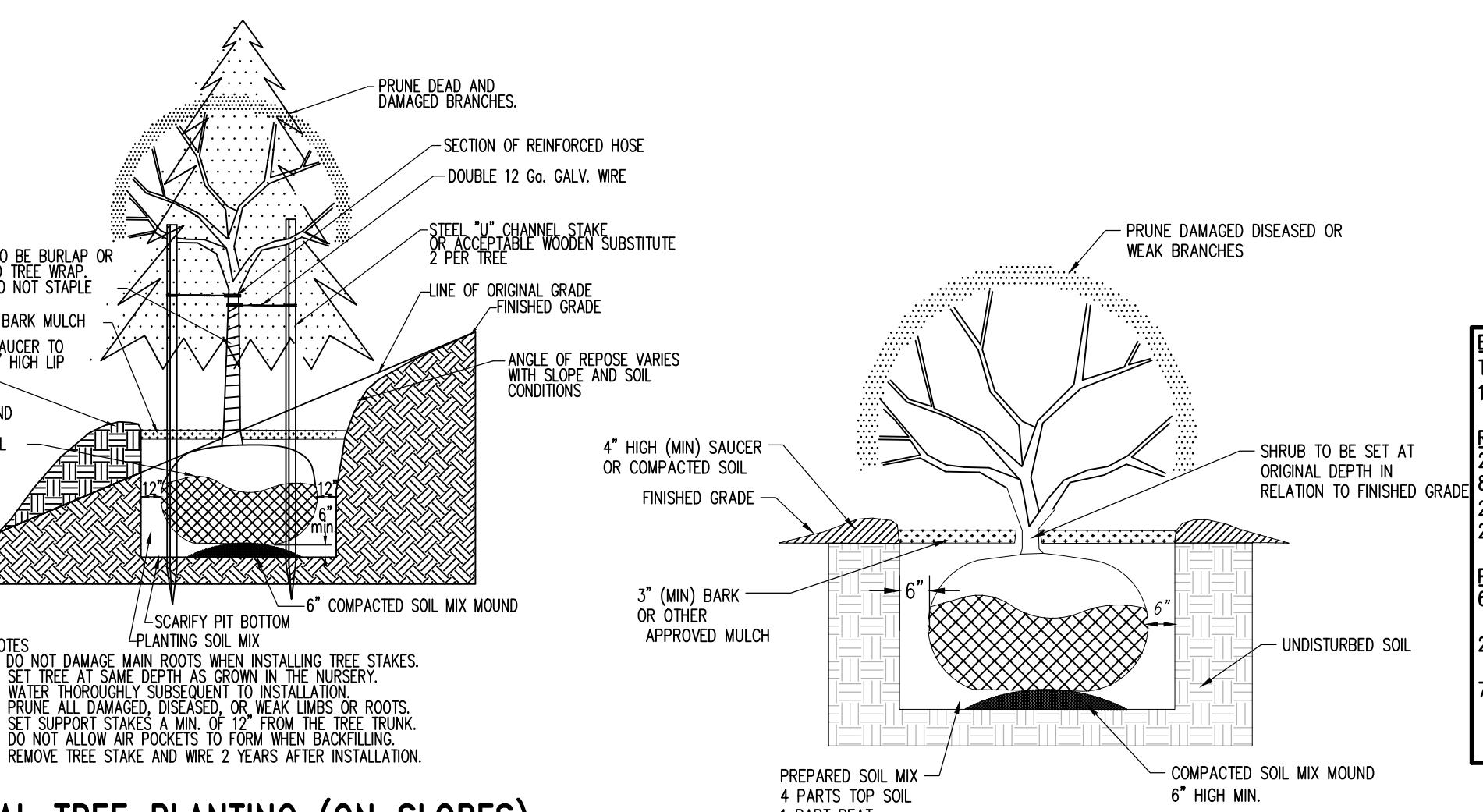


PLANTING SCHEDULE					
SYMBOL	KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE
<b>C A N O P Y   T R E E S</b>					
(1)	T-1	5	Katsura Tree	Cercidiphyllum japonica	2" Cal.
(1)	T-2	4	Scarlet Oak	Quercus coccinea	2" Cal.
(1)	T-3	6	London Planetree	Platanus x acerifolia	2" Cal.
(1)	T-4	10	Armstrong Maple	Acer x freemanii 'Armstrong'	2" Cal.
(1)	T-5	6	Silver Linden	Tilia tomentosa	2" Cal.
(1)	T-6	6	Thornless Honeylocust	Gleditsia triacanthos inermis	2" Cal.
(1)	T-7	5	Red Sunset Maple	Acer rubrum 'Red Sunset'	2" Cal.
<b>U N D E R S T O R Y / E V E R G R E E N   T R E E S</b>					
(1)	E-1	20	Norway Spruce	Picea abies	6' Ht.
(1)	E-2	16	Red Pine	Pinus resinosa	6' Ht.
(1)	E-3	23	Concolor Fir	Abies concolor	6' Ht.
<b>S H R U B S</b>					
(1)	S-1	41	Ninebark	Physocarpus opulifolius	36"
(1)	S-2	63	Ruby Slipper Oakleaf Hydrangea	Hydrangea quercifolia 'Ruby Slipper'	36"
(1)	S-3	20	Burkwood Viburnum	Viburnum x burkwoodii	36"
(1)	S-4	47	Bottlebrush Buckeye	Aesculus parviflora	36"
(1)	S-5	58	Red Chokeberry	Aronia arbutifolia	36"
(1)	S-6	25	Red Twig Dogwood	Cornus sericea	36"
(1)	S-7	42	Pink Summersweet	Clethra alnifolia 'Rosea'	36"
(1)	S-8	69	Densiformis Yew	Taxus x media 'Densiformis'	36"
(1)	S-9	10	English Spreading Yew	Taxus baccata 'Repandens'	36"
(1)	S-10	20	Elijah Blue Fescue	Festuca ovina glauca 'Elijah Blue'	3.5" Pots 15" O.C.

NOTE: ALL TREES AND SHRUBS SHALL BE PLANTED IN ACCORDANCE WITH THE "GUIDE TO PLANTING IN FERGUSON TOWNSHIP".

LANDSCAPE NOTES

1. Trees are to be mulched individually in a 4' diameter circle.
2. The mulch is to be double shredded hardwood bark mulch, well-aged and dark in color. Apply the mulch 3"-4" thick.
3. Plant material substitutions may only be permitted at the approval of the owner and approving municipality prior to planting.
4. Any plantings which do not survive for a period of one year from the date of planting are to be replaced by the landscape contractor at no additional cost to the Owner.
5. All new plant material is to be kept watered by the landscape contractor when working on site until acceptance of the completion of the landscape or end of the season (then resume next season until project is completed). The owner will be responsible for watering thereafter.
6. All disturbed areas not being planted in trees or shrubs are to be fine graded with 6" of topsoil and seeded with a hardy perennial grass seed mixture and mulched with straw.
7. Grass must be 2 inches high over 90% of the seeded areas prior to acceptance by the owner.
8. All caliper measurements for landscaping shall be measured at 6" above the root ball.
9. Quantities of plant material noted on the planting schedule are to be verified with quantities shown on the plan which will have priority.
10. See sheet ES2 for lawn and basin bottom seed mixes.

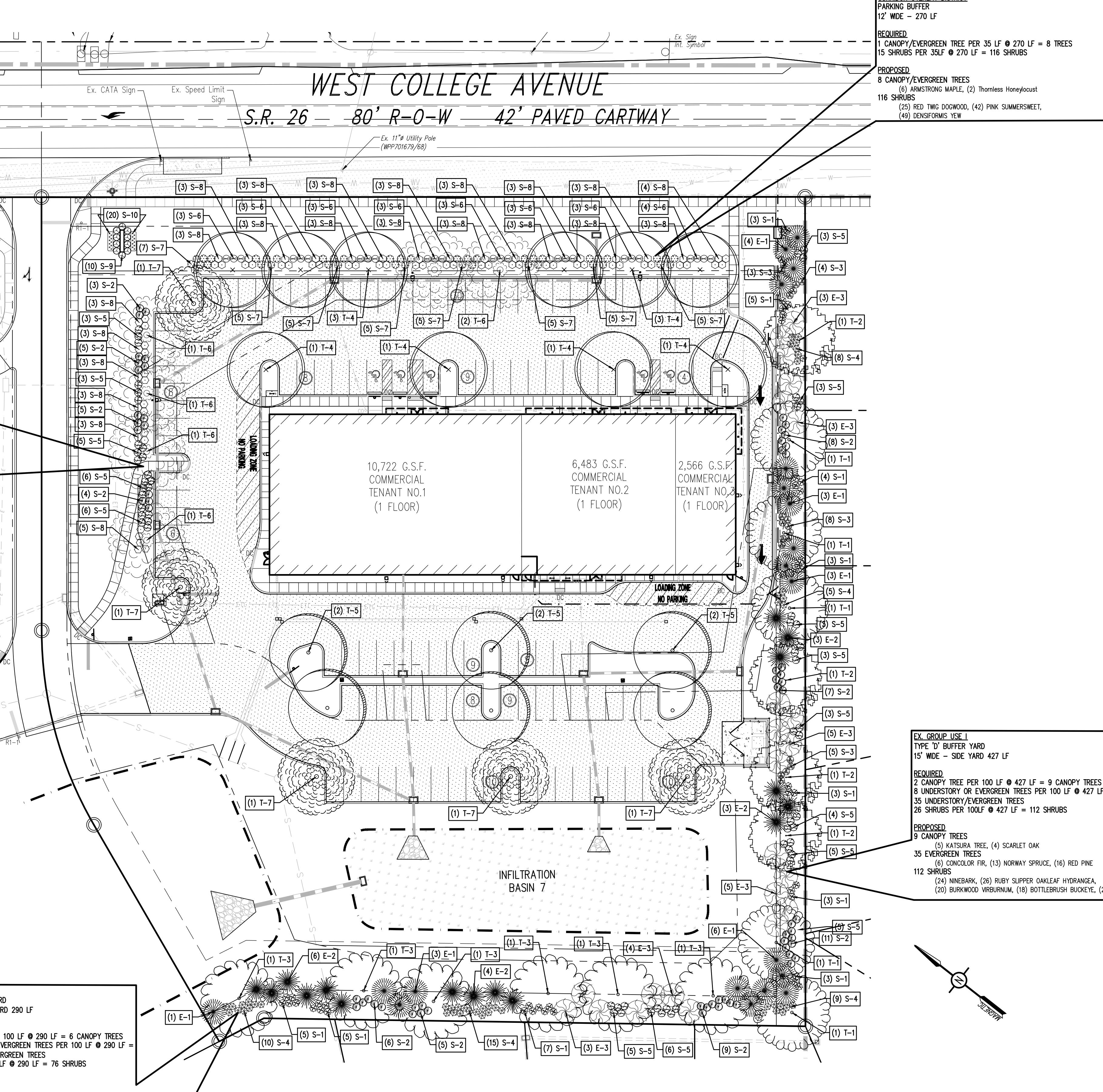


TYPICAL TREE PLANTING (ON SLOPES)

NOT TO SCALE

TYPICAL SHRUB PLANTING DETAIL

NOT TO SCALE



CORRIDOR OVERLAY DISTRICT  
PARKING BUFFER  
12' WIDE - 270 LF  
REQUIRED  
1 CANOPY/EVERGREEN TREE PER 35 LF @ 270 LF = 8 TREES  
15 SHRUBS PER 35LF @ 270 LF = 116 SHRUBS  
PROPOSED  
8 CANOPY/EVERGREEN TREES  
(6) ARMSTRONG MAPLE, (2) THORNLESS HONEYLOCUST  
116 SHRUBS  
(25) RED TWIG DOGWOOD, (42) PINK SUMMERSWEET,  
(49) DENSIFORMIS YEW

Designer CJW  
Draftsman CJW  
Proj Manager MAT  
Surveyor MAK/JDF  
Perimeter Ok \_\_\_\_\_  
Book 543 Pg 1  
File 17125.10-PRE-09-LANDSCAPE  
Layout LANDSCAPE

9/28/21 REVISED PER IMP COMMENTS  
9/28/21 REVISED PER IMP COMMENTS  
Date Description  
REVISIONS

## ORCHARD SQUARE

FERGUSON TOWNSHIP  
CENTRE COUNTY  
PENNSYLVANIA

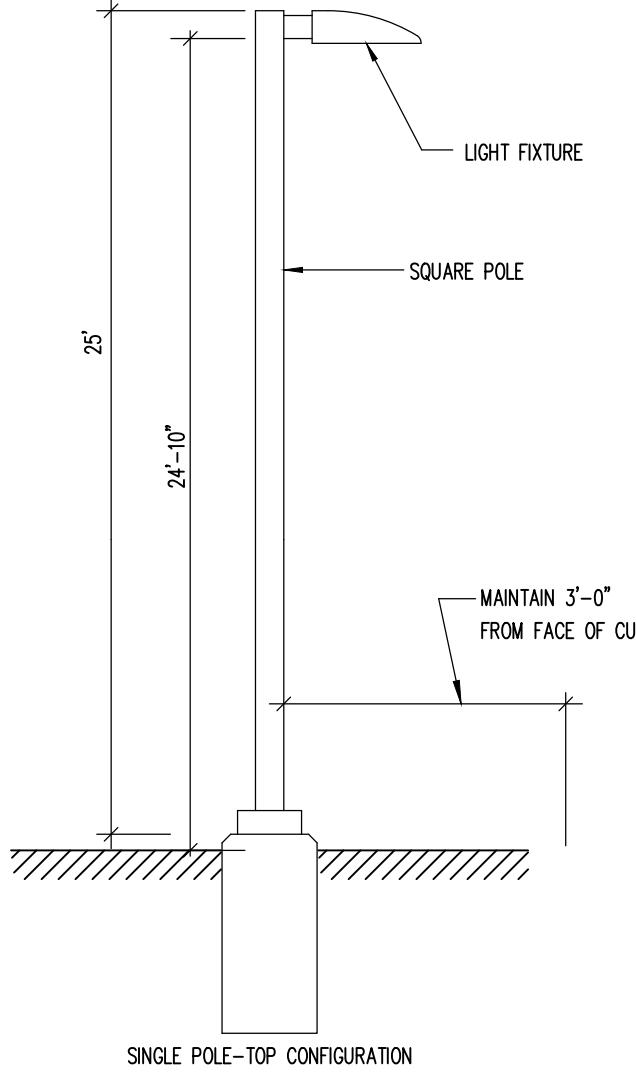
## PRELIMINARY LAND DEVELOPMENT PLAN

## LANDSCAPING PLAN

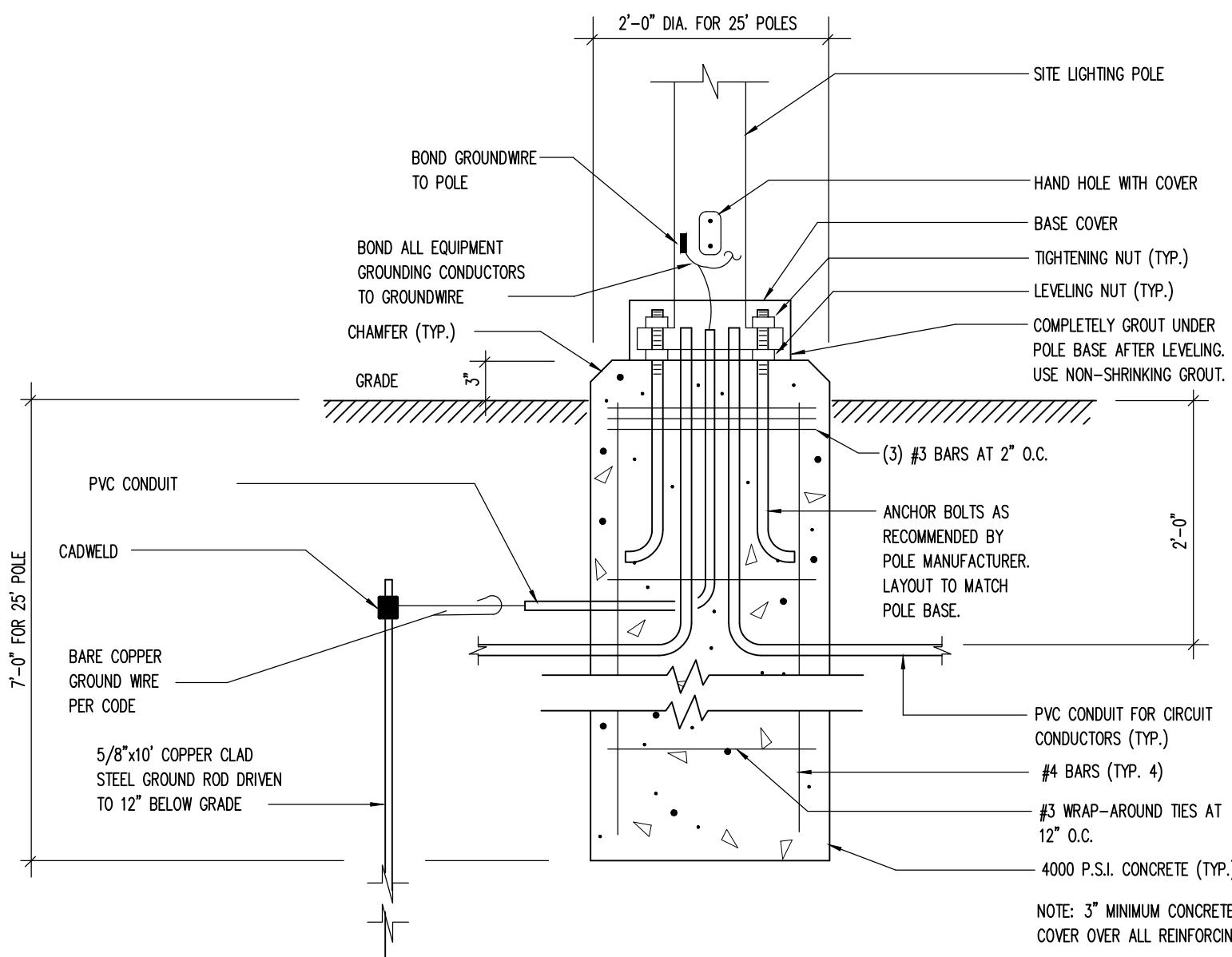
PROJECT NO. 17125.10  
DATE AUGUST 11, 2021  
SCALE 1" = 30'  
SHEET NO. 8  
GRAPHIC SCALE  
( IN FEET )  
1 inch = 50 ft.

## ELECTRICAL NOTES

- Electrical contractor shall verify and coordinate all existing and new underground facilities with all contractors, utility companies, etc. before beginning any underground construction.
- Wiring under all pavement surfaces shall be in PVC conduit size as indicated – minimum size 1". Electrical contractor shall verify location of all roadways, walkways, patios, terraces, etc. and provide conduit under all locations for wiring access.
- All circuits shall be complete with ground wire.
- All conduit shall be set at a minimum depth of 24".
- All wiring trenches shall be run as close as possible to all curbs – no wiring shall run through the center of any island, planter, terrace, courtyard, etc. Electrical contractor shall verify conduit location in the field before excavating.
- Contractor shall provide electrical design studies and drawings per latest building & electrical code standards for lighting connections, circuitry & controller, and shall be responsible for any code approvals for the designs.
- Proposed fixtures for curfew lighting shall be installed on same circuit to be set to remain on past after-business hours. All other proposed fixtures shall be set to be turned off for after-business hours.
- Electrical installation for lighting shall include required wiring and conduit to 5' outside of the building. Building contractor to supply control panels, timing clocks and connection to exterior wiring.



**SITE LIGHTING POLE DETAIL - TYPE A & B FIXTURES**  
NOT TO SCALE



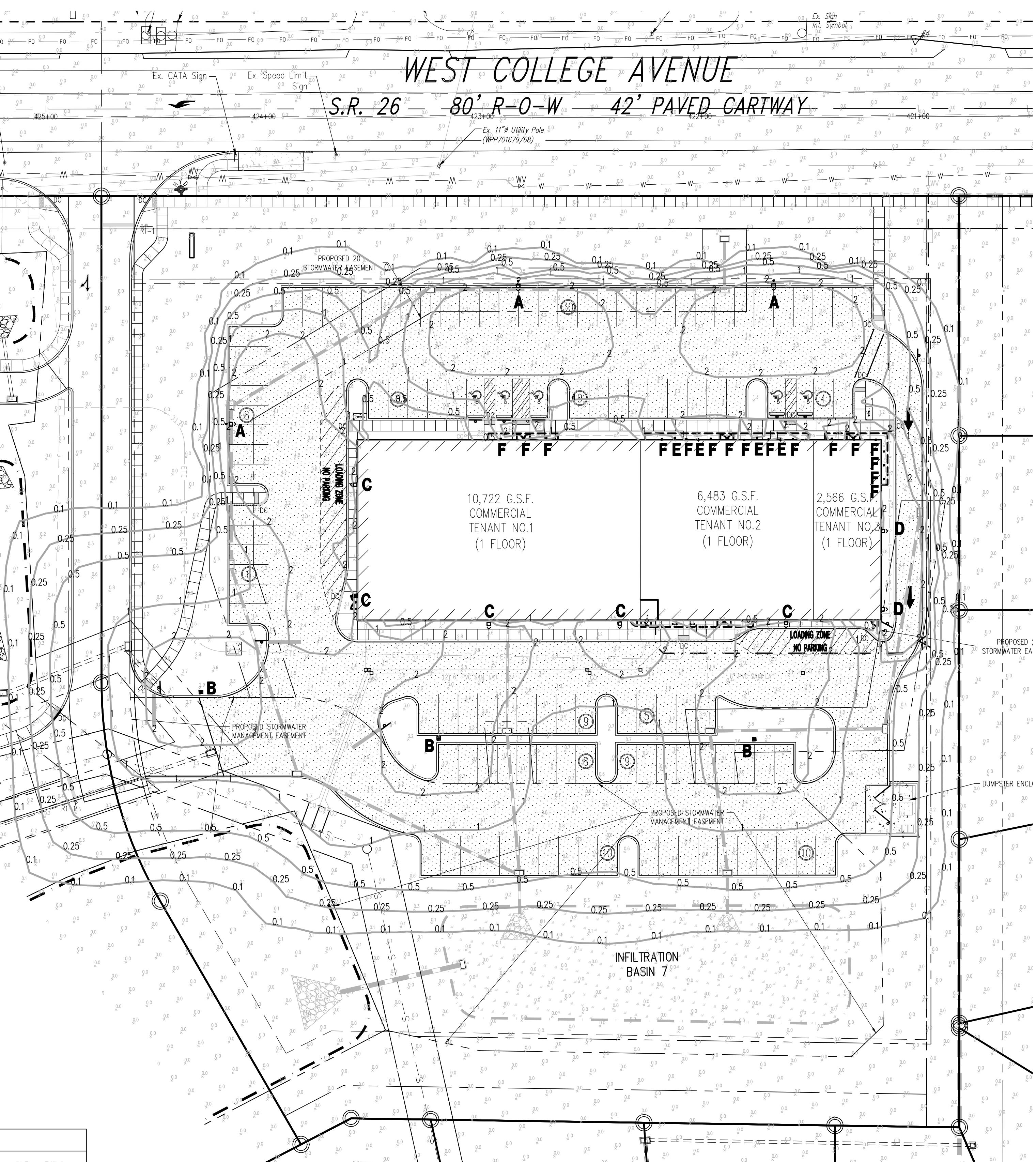
Statistics					
Description	Symbol	Avg	Max	Min	Max/Min Avg/Min
PAVED AREA		2.0	6.9	0.4	7.3;1 5.0:1
TRESPASS		0.3	6.9	0.0	f/c + N/A N/A

## LUMINAIRE SCHEDULE

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Filename	Lumens per Lamp	LLF	Efficiency
□	A	3	LSI INDUSTRIES, INC.	SLM-LED-24L-SIL-FT-40-70CR1-IL	SLICE MEDIUM LED, 24,000 Ims, FORWARD THROW DISTRIBUTION, 4,000 CCT, 70 CRI, INTEGRAL HPS, 25 MOUNTING HEIGHT	SLM-LED-24L-SIL-FT-40-70CR1-IES	15717	1	100%
□	B	3	LSI INDUSTRIES, INC.	SLM-LED-24L-SIL-SW-40-70CR1	SLICE MEDIUM LED, 24,000 Ims, TYPE V DISTRIBUTION, 4,000 CCT, 70 CRI, 25 MOUNTING HEIGHT	SLM-LED-24L-SIL-5W-	23670	1	100%
△	C	5	EATON - MCGRAW-EDISON (FORMER COOPER LIGHTING)	GWC-AF-01-LED-E1-T4FT-600	GALLEON WALL LUMINAIRE (1) 70 CRI, 10000 Ims, 6150mA, 100W, WITH 16 LEDS EACH, AND TYPE IV FORWARD THROW OPTICS, 11" MOUNTING HEIGHT	GWC-AF-01-LED-E1-T4FT-600.ies	263	1	100%
△	D	2	EATON - MCGRAW-EDISON (FORMER COOPER LIGHTING)	GWC-AF-01-LED-E1-T4W-600	GALLEON WALL LUMINAIRE (1) 70 CRI, 10000 Ims, 6150mA, 100W, WITH 16 LEDS EACH, AND TYPE IV WIDE OPTICS, 8" MOUNTING HEIGHT	GWC-AF-01-LED-E1-T4W-600.ies	260	1	100%
△	E	4	BOOM Converted by LUMCAT V 07/2015 / M.S.	31074 LED 5.3W, 7" MOUNTING HEIGHT	31074_BEGA_IES.ies	318	1	100%	
□	F	16	COOPER LIGHTING SOLUTIONS - HALO (FORMERLY EATON)	SMD6R6927WH	6" Round Surface Mount, 600 Im, 42° 2700K CCT, 80 CRI LEDs, 10" MOUNTING HEIGHT	SMD6R6927WH.ies	18	1	100%

## WEST COLLEGE AVENUE

S.R. 26 - 80' R-O-W - 42' PAVED CARTWAY



## SURVEY FEATURES LEGEND

Property Line, Lot Line or Right of Way Line
Adjoining Property Line
Building Setback Line
Easement Line
Zoning Boundary
Property Corner Found
Property Corner To Be Set

## EXISTING FEATURES LEGEND

Existing Curbing & Edge of Pavement
Existing Sanitary Sewer w/ Manhole
Existing Water Line w/ Valve
Existing Storm Sewer Line w/ Inlet
Existing Overhead Utility Line w/ Pole
Existing Fire Hydrant
Existing Manhole
Existing Utility Pole
Existing Guy Wire
Existing Sign

## PROPOSED FEATURES LEGEND

PROPOSED BUILDING	PROPOSED BUILDING
PROPOSED CURBING & EDGE OF PAVEMENT	PROPOSED CURBING & EDGE OF PAVEMENT
PROPOSED CONCRETE SIDEWALK	PROPOSED CONCRETE SIDEWALK
PROPOSED CONCRETE AREAS	PROPOSED CONCRETE AREAS
PROPOSED BITUMINOUS PAVEMENT AREAS	PROPOSED BITUMINOUS PAVEMENT AREAS
PROPOSED 4" PVC SANITARY SEWER LATERAL W/ CLEAN OUT	PROPOSED 4" PVC SANITARY SEWER LATERAL W/ CLEAN OUT
PROPOSED SINGLE UNIT DOMESTIC WATER SERVICE LATERAL W/ CURB BOX	PROPOSED SINGLE UNIT DOMESTIC WATER SERVICE LATERAL W/ CURB BOX
PROPOSED STORM SEWER W/ TYPE C INLET	PROPOSED STORM SEWER W/ TYPE C INLET
PROPOSED STORM SEWER ROOF DRAIN	PROPOSED STORM SEWER ROOF DRAIN
PROPOSED GAS LINE	PROPOSED GAS LINE
PROPOSED COMBINED UTILITY CONDUIT	PROPOSED COMBINED UTILITY CONDUIT
PROPOSED STORM SEWER INLET - TYPE M	PROPOSED STORM SEWER INLET - TYPE M
PROPOSED STORM SEWER INLET - TYPE C	PROPOSED STORM SEWER INLET - TYPE C
PROPOSED CLEAN-OUT	PROPOSED CLEAN-OUT
PROPOSED CLEAN-OUT W/ CONC. PAD	PROPOSED CLEAN-OUT W/ CONC. PAD

PROPOSED STORMWATER BASIN/BEST MANAGEMENT PRACTICE (BMP) FACILITIES
PROPOSED PAINTED SITE CROSSWALK (ACCESSIBLE ROUTE)
PROPOSED PAINTED HANDICAPPED PARKING SYMBOLS
PROPOSED TRAFFIC FLOW ARROWS (NOT PAINTED)
PROPOSED PARKING STALL COUNT
PROPOSED SIGN W/ LABEL
PROPOSED DEPRESSED CURB W/ CURB TRANSITION
PROPOSED HANDICAPPED RAMP

## LIGHTING LEGEND

FOOT CANDLES AT GROUND ELEVATION
FOOT CANDLE CONTORS

Designer	CJW
Draftsman	CJW
Proj Manager	MAT
Surveyor	MAK/JDF
Perimeter Ok	
Book	543 Pg 1
File	17125.10-PRE-10-LIGHTING
Layout	LIGHTING

9/28/21 REVISED PER IMP COMMENTS  
9/30/21 REVISED PER IMP COMMENTS  
Date Description REVISIONS

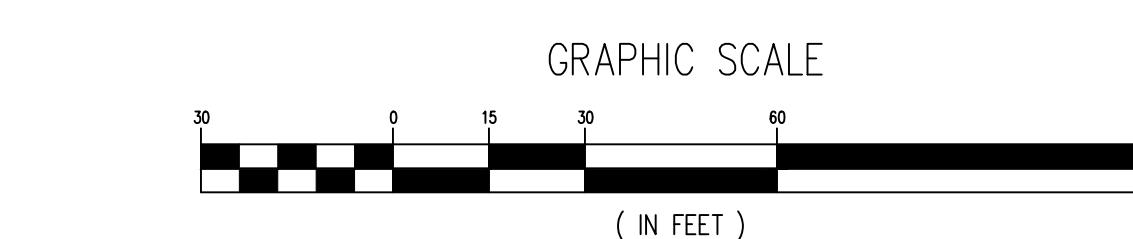
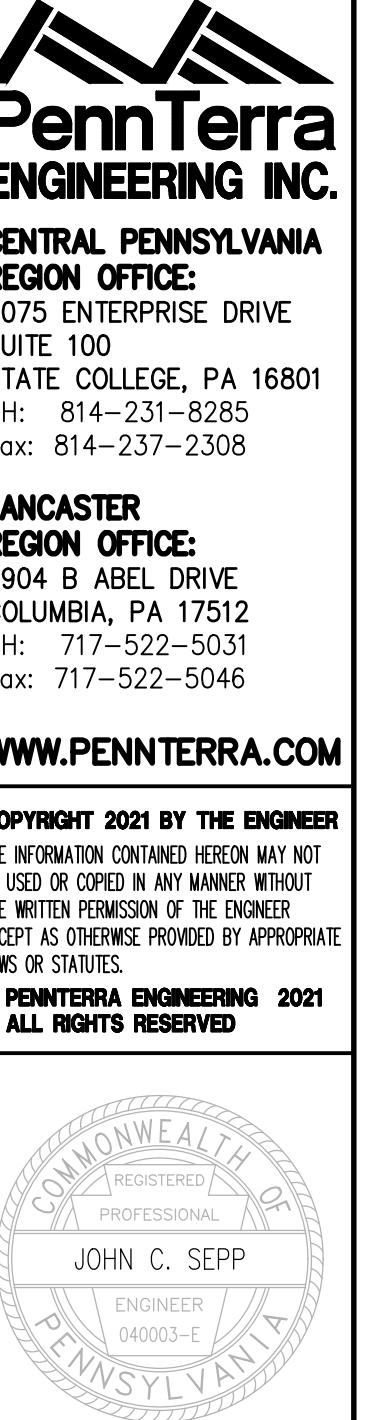
## ORCHARD SQUARE

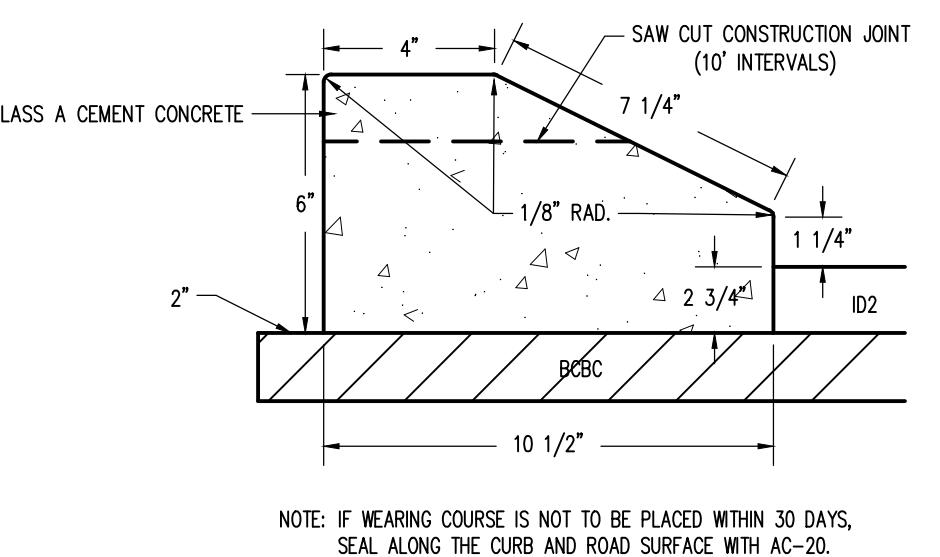
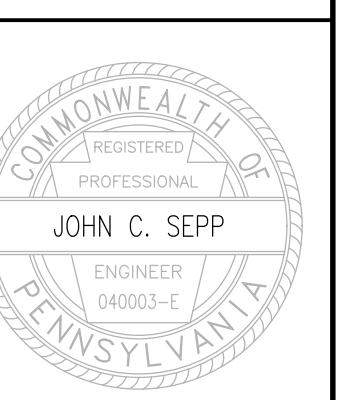
FERGUSON TOWNSHIP  
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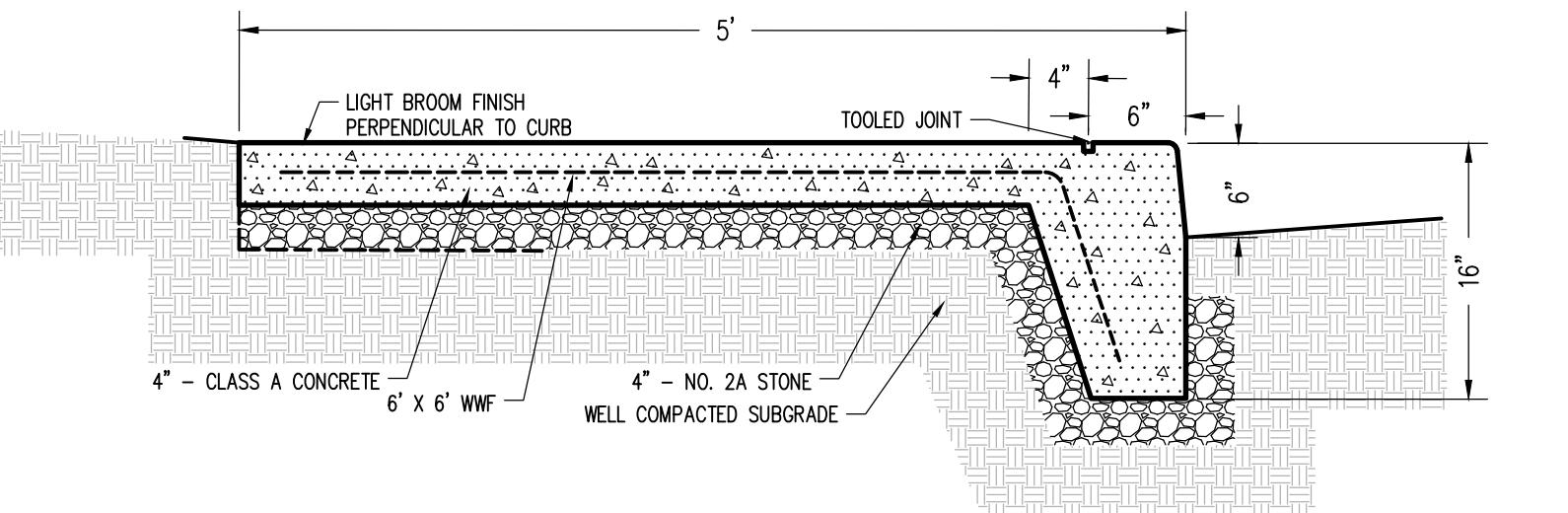
## PRELIMINARY LAND DEVELOPMENT PLAN

## LIGHTING PLAN

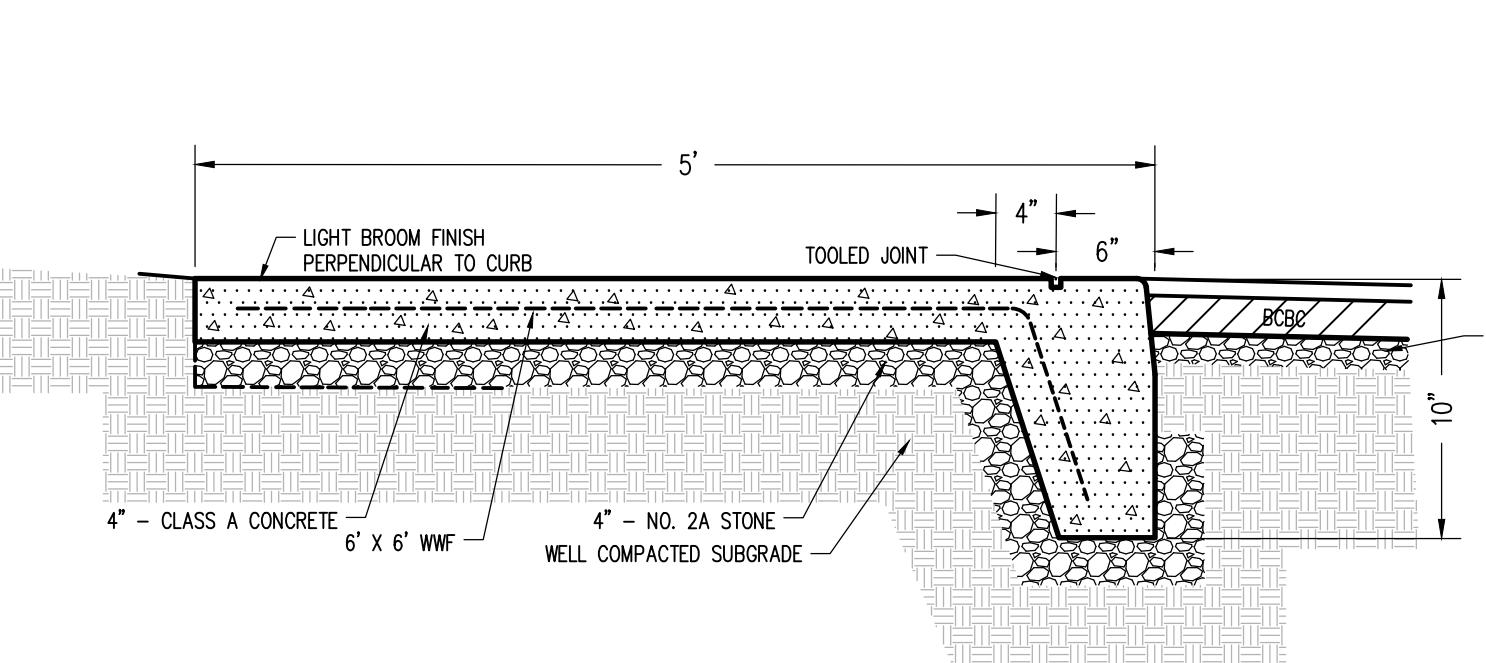
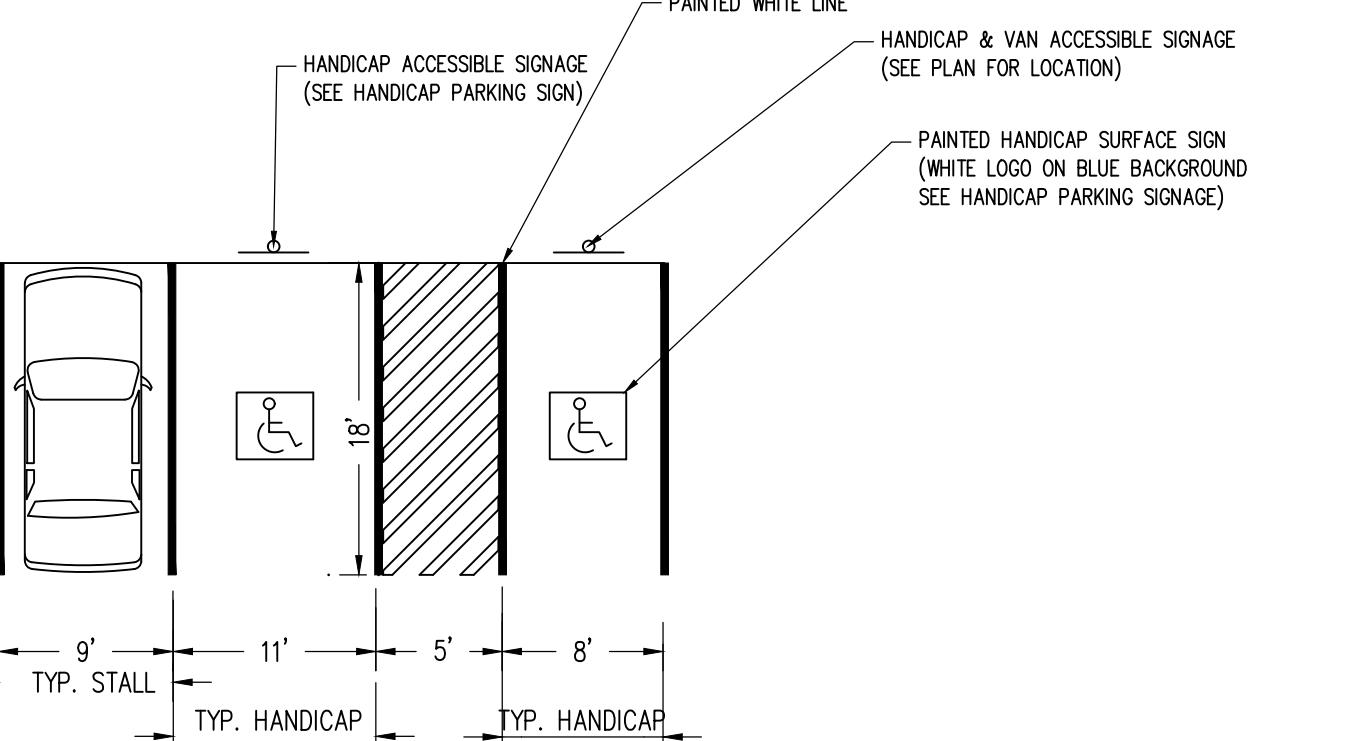
## GRAPHIC SCALE

PROJECT NO.  
17125.10DATE  
AUGUST 11, 2021SCALE  
1" = 30'  
SHEET NO.  
9


**EXTRUDED CONCRETE MOUNTABLE CURB DETAIL**

 NOT TO SCALE  
PD5004

**INTEGRAL CURB & SIDEWALK 5' WIDE**

NOT TO SCALE


**INTEGRAL CURB & SIDEWALK 5' WIDE FLUSH WITH ADA PARKING**

NOT TO SCALE

PD5004

MATCH FULL HT. CURB WDTH

8" CLASS A CEMENT CONCRETE

 2" DEEP 3/16" WIDE  
CONTRACTION JOINT  
(SPACE 4' MIN-20' MAX)

NO. 2A STONE SUBBASE

WELL COMPACTED SUBGRADE

**DEPRESSED CONCRETE CURB**

NOT TO SCALE

PD5004

10'

 2" DEEP 3/16" WIDE  
CONTRACTION JOINT  
(SPACE 4' MIN-20' MAX)

NO. 2A STONE SUBBASE

WELL COMPACTED SUBGRADE

10"

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NO. 2A STONE SUBBASE

WELL COMPACTED SUBGRADE

10"

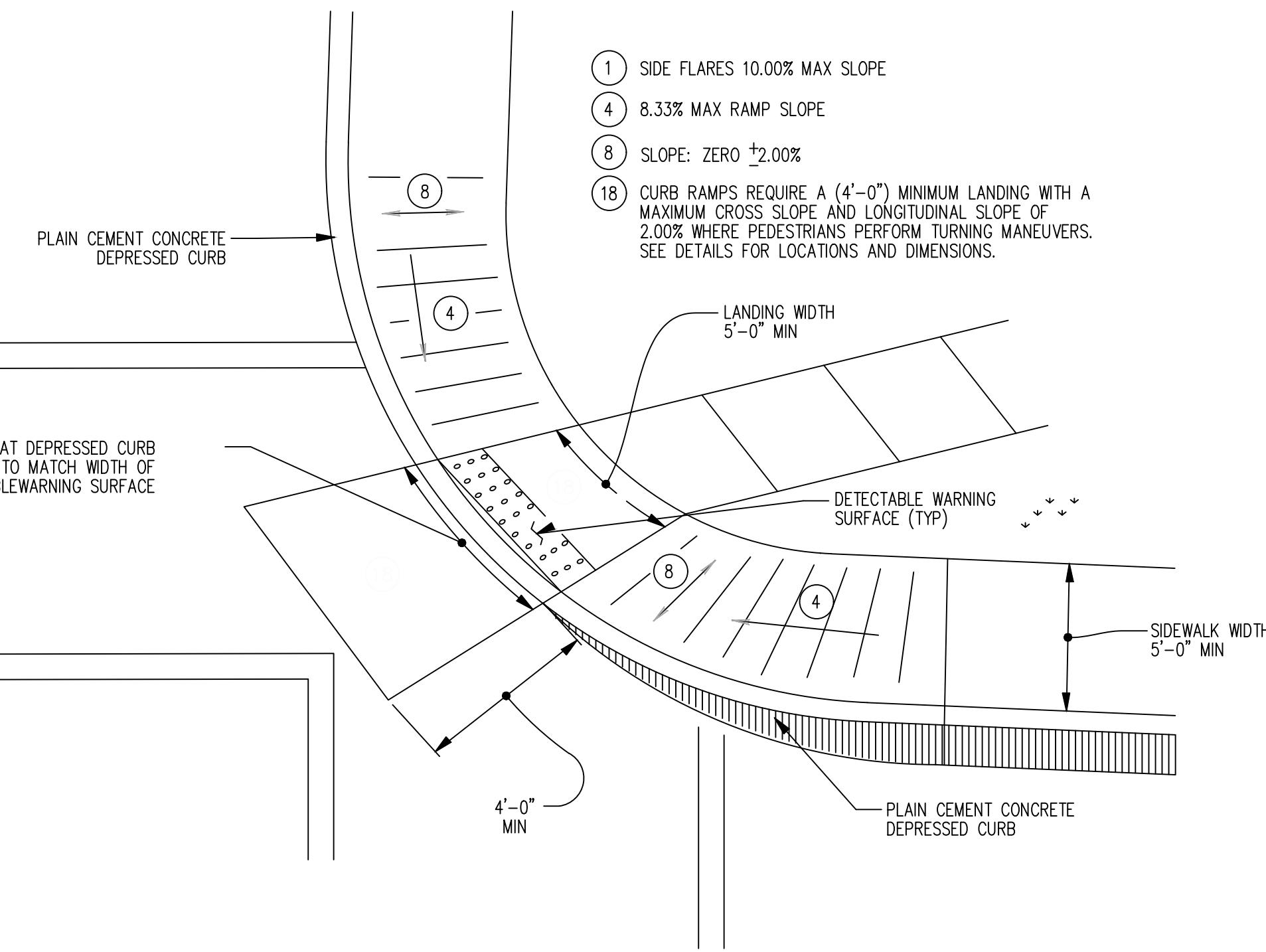
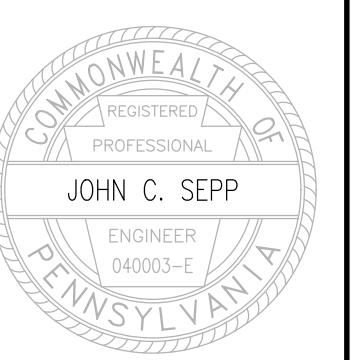
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CONTRACTION JOINT  
(SPACE 4' MIN-20' MAX)

NO. 2A STONE SUBBASE

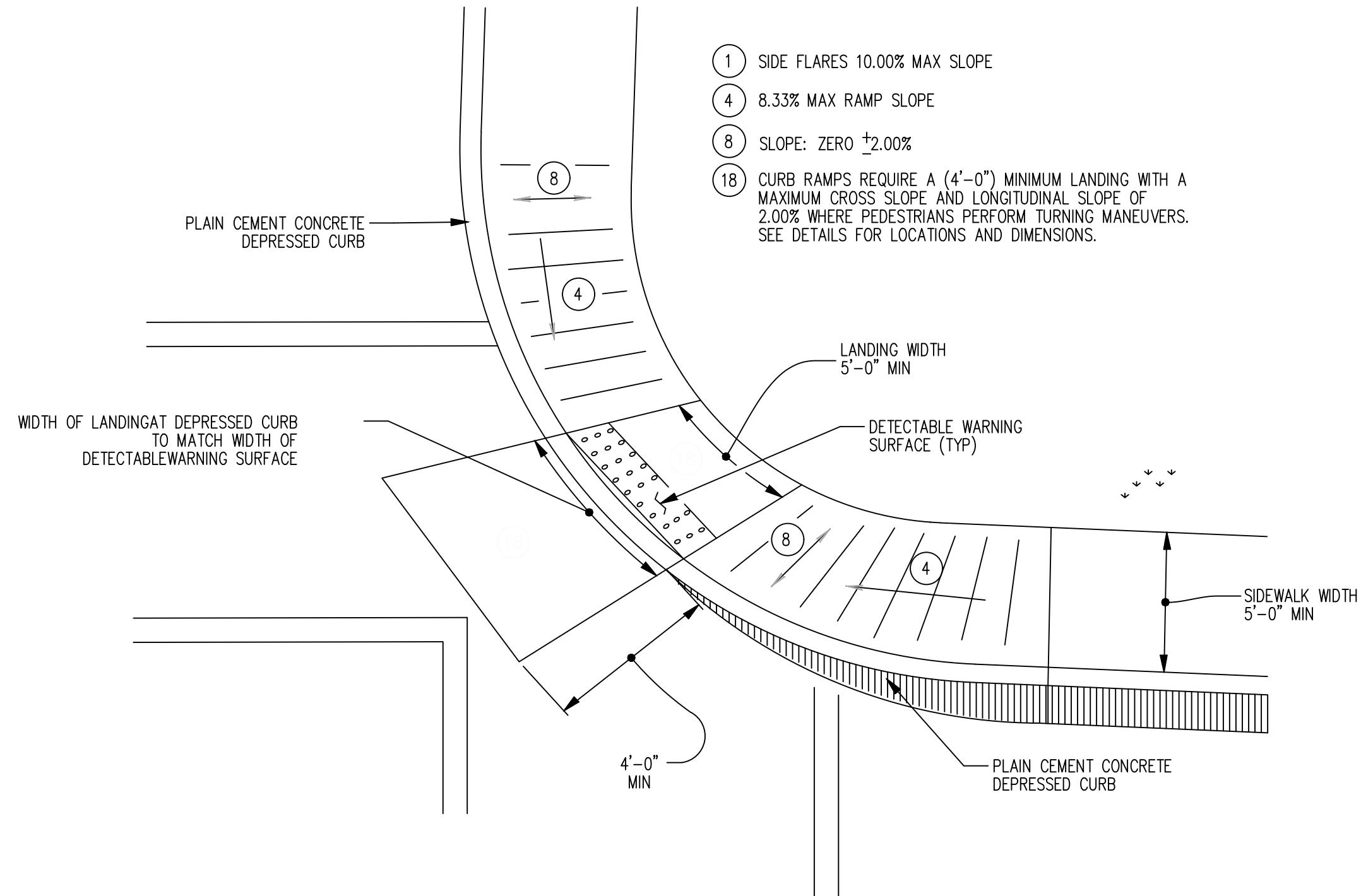
WELL COMPACTED SUBGRADE

10"

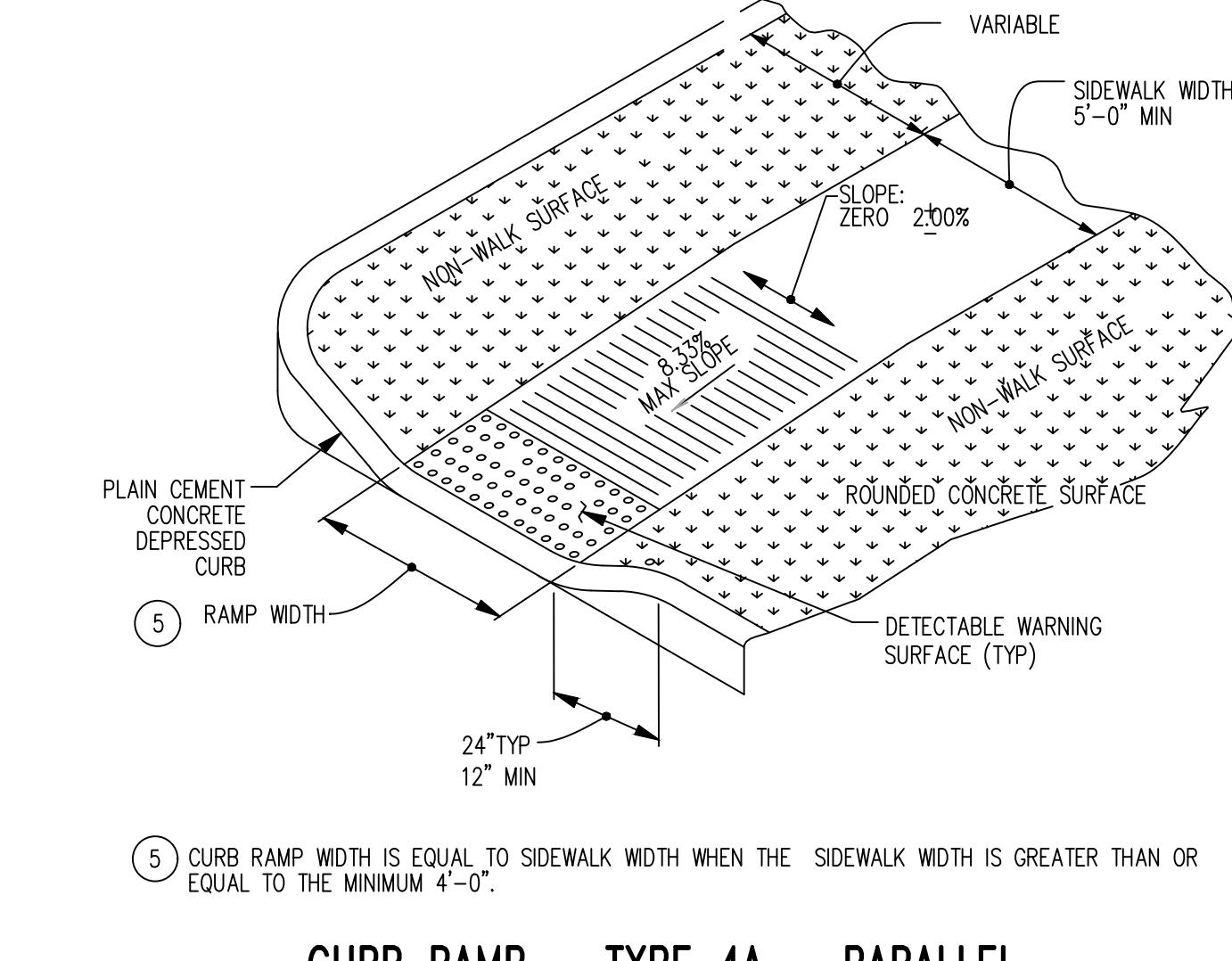
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CONTRACTION JOINT  
(SPACE 4' MIN-20' MAX)



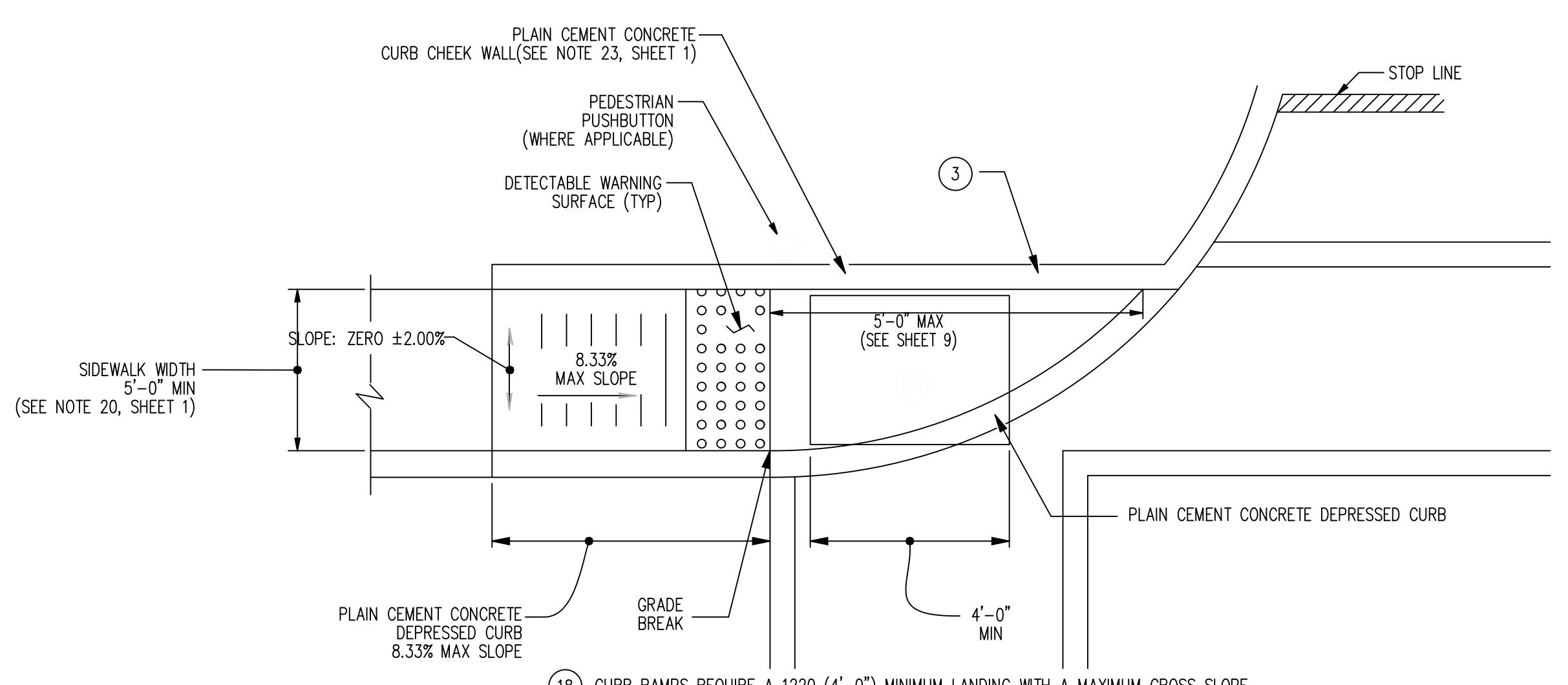
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NOT TO SCALE



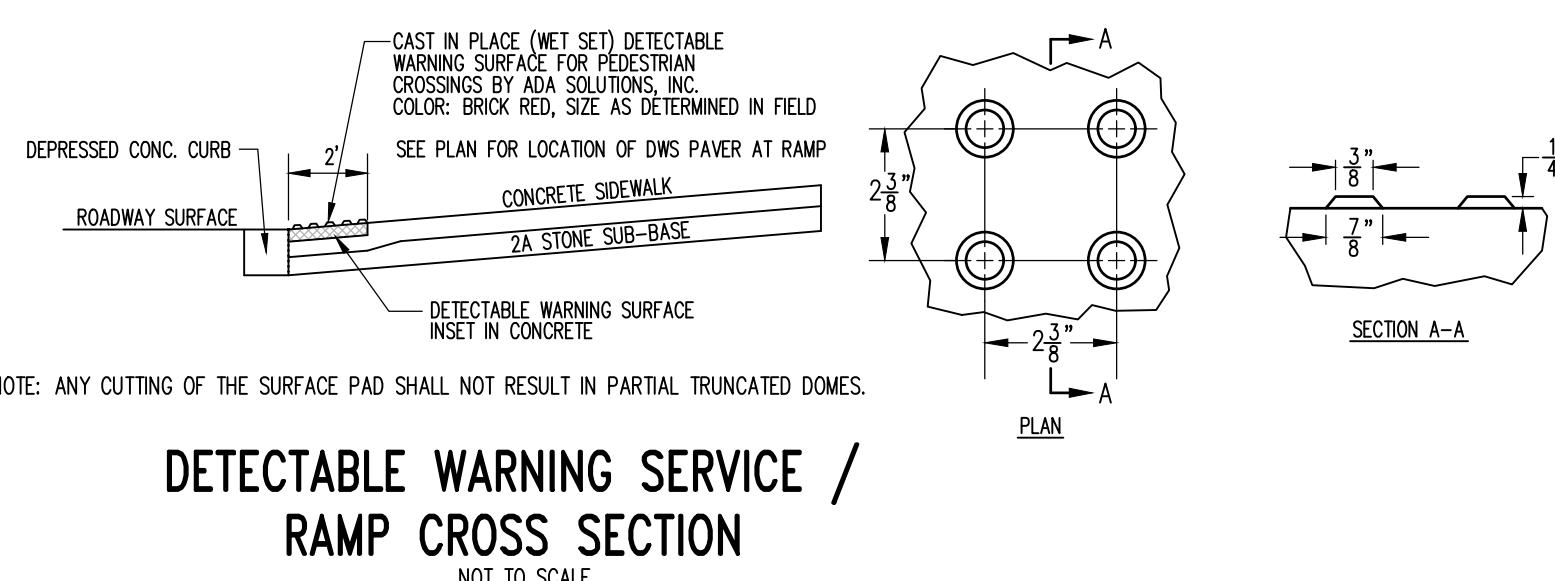
**CURB RAMP - TYPE 2**  
NOT TO SCALE



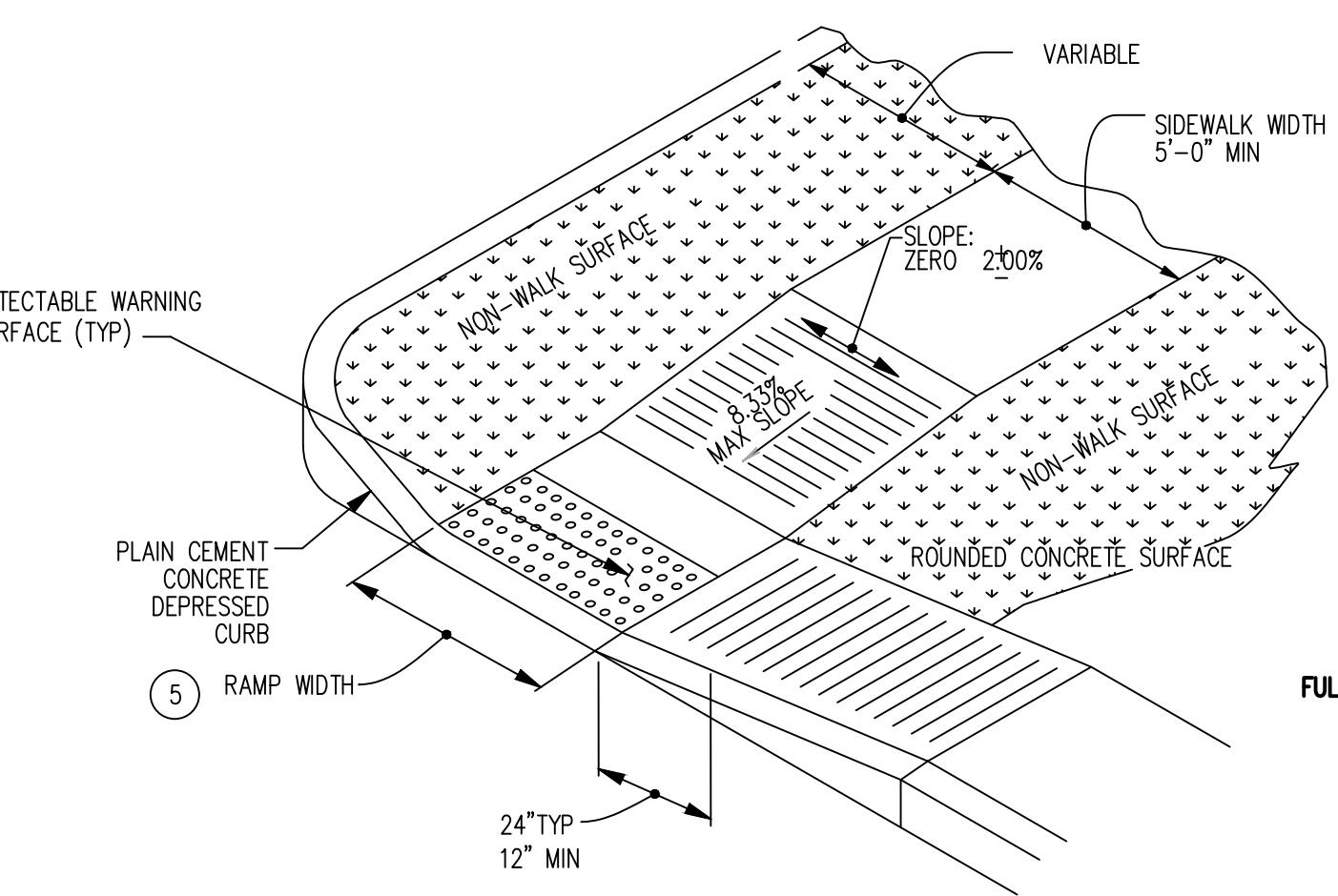
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NOT TO SCALE



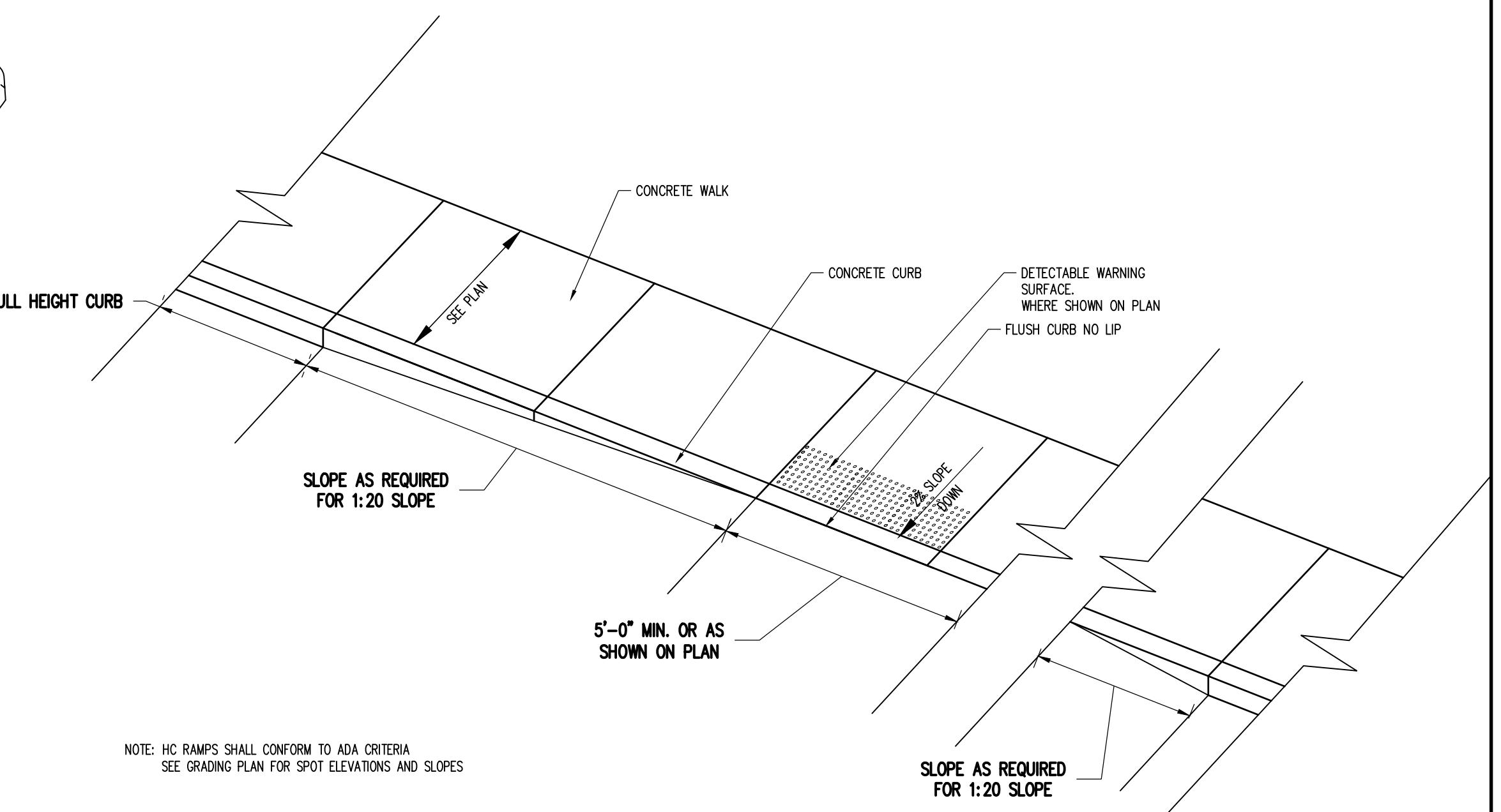
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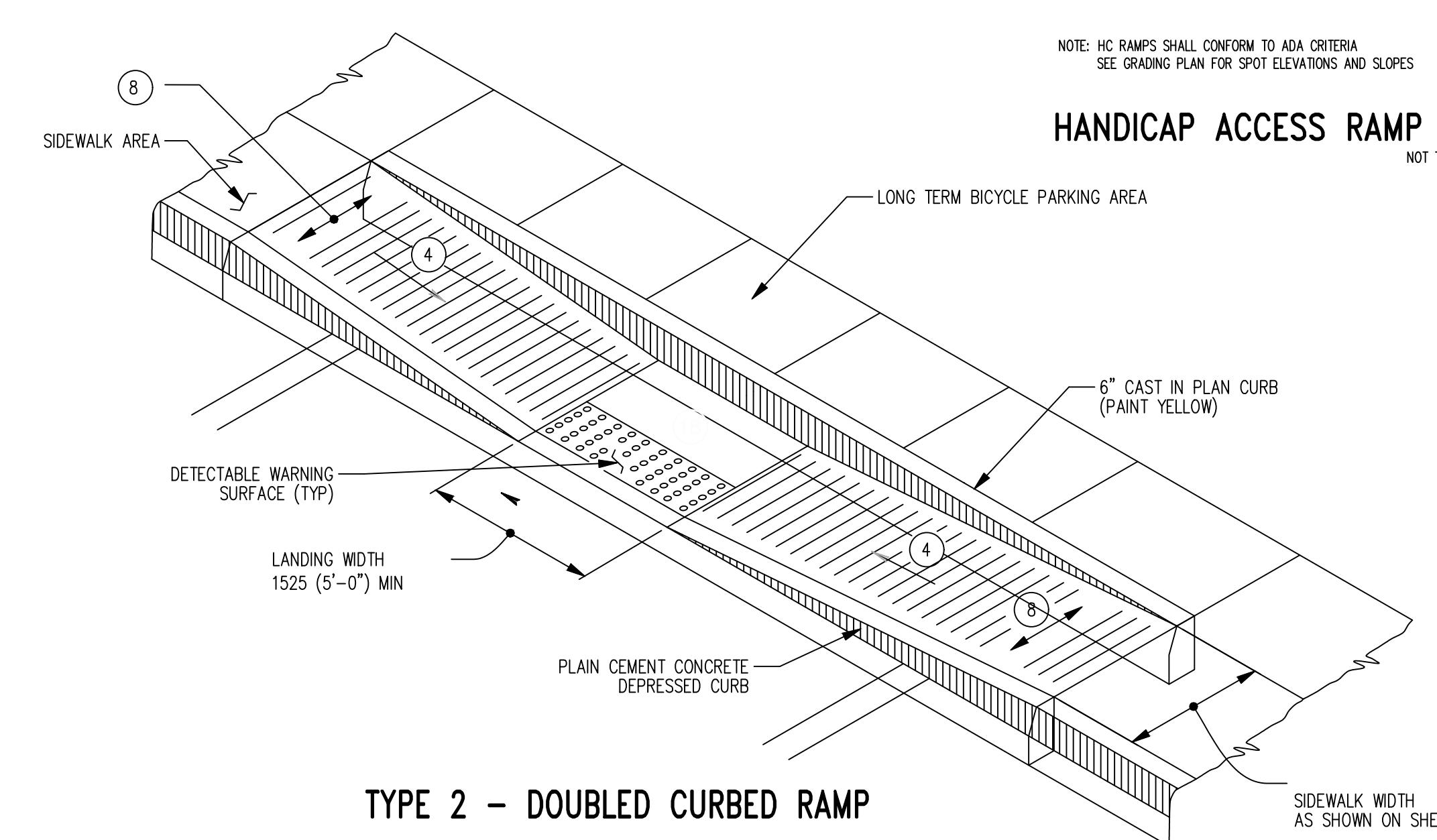
**DETECTABLE WARNING SERVICE /  
RAMP CROSS SECTION**  
NOT TO SCALE



**CURB RAMP - MODIFIED TYPE 4A - PARALLEL**  
NOT TO SCALE



**HANDICAP ACCESS RAMP TYPE B FLUSH WITH PARKING**  
NOT TO SCALE



**TYPE 2 - DOUBLED CURBED RAMP**

Designer CJW  
Draftsman CJW  
Proj Manager MAT  
Surveyor MAK/JDF  
Perimeter Ok \_\_\_\_\_  
Book 543 Pg 1  
File 17125.10-PRE-HI-DETAILS  
Layout DETAILS (3)

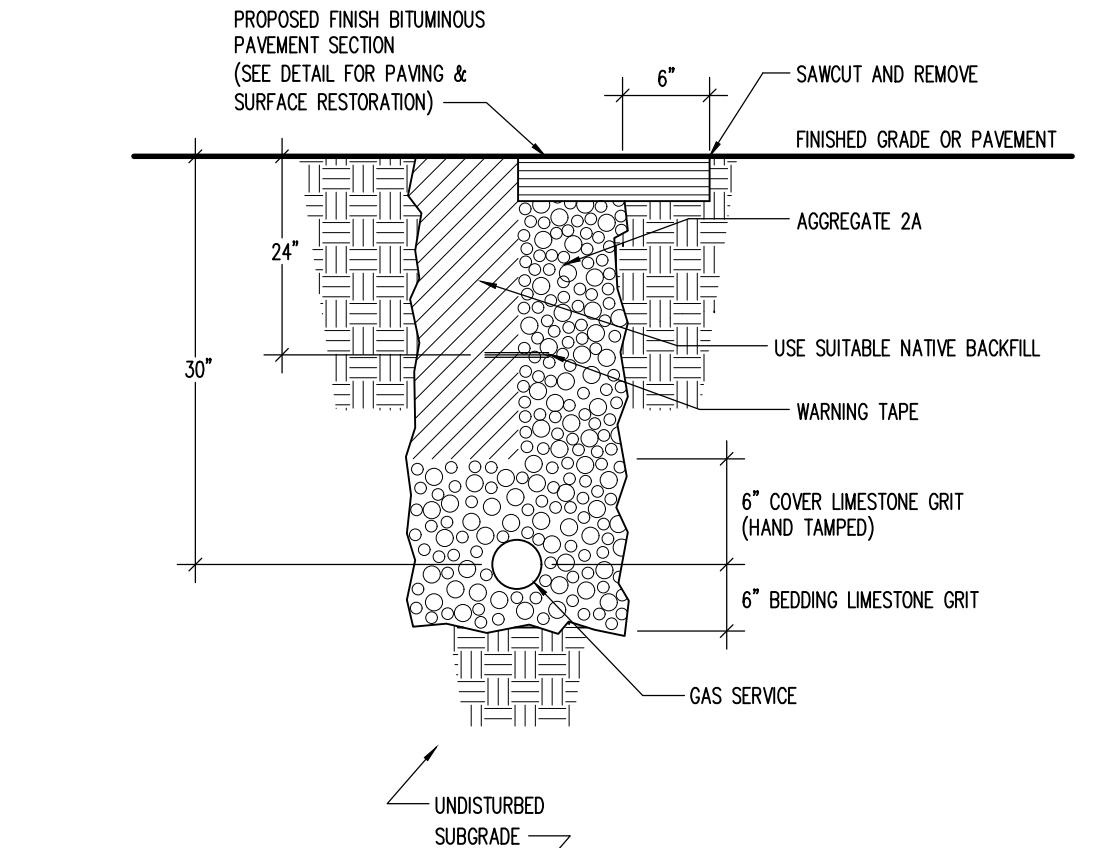
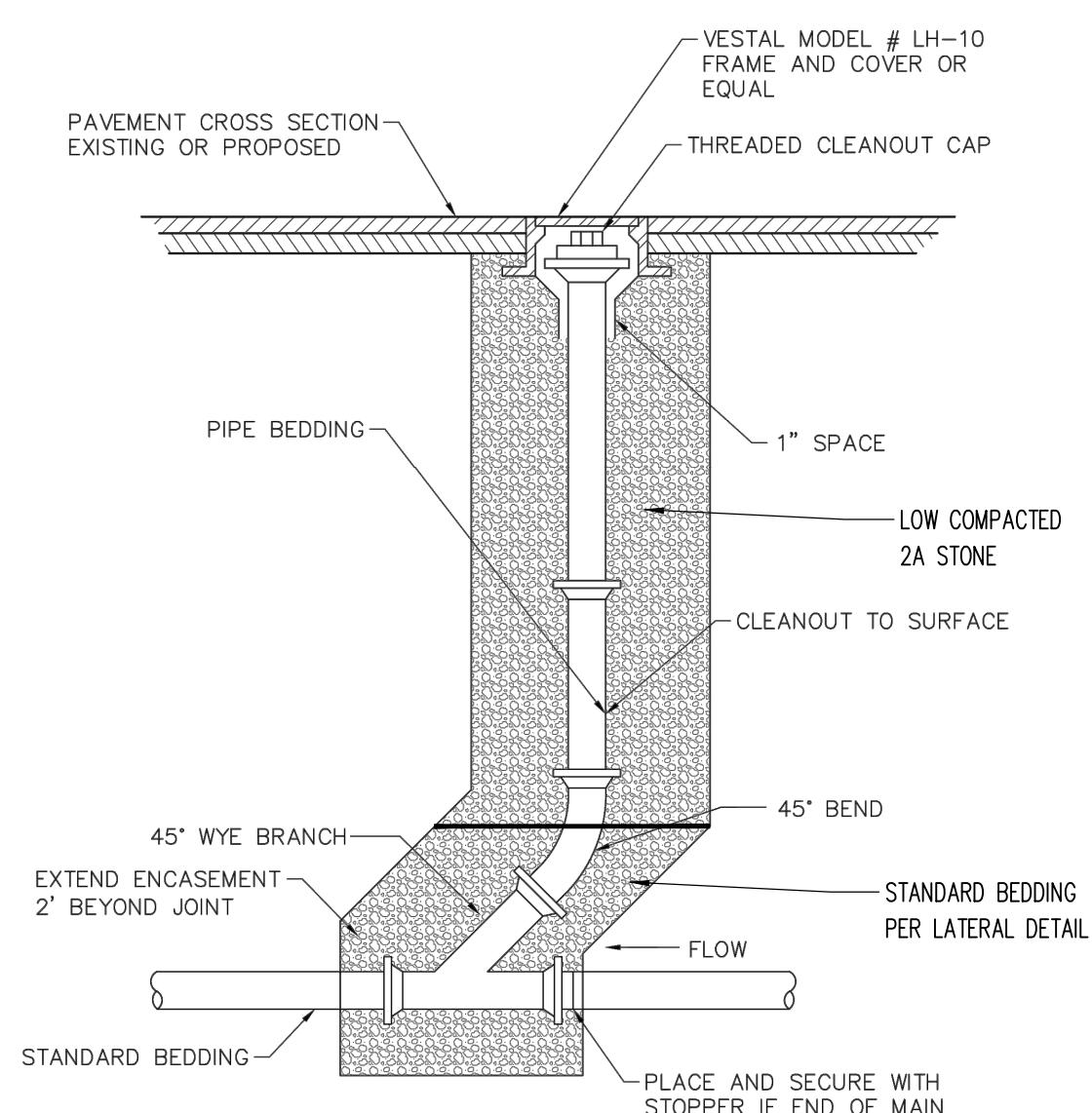
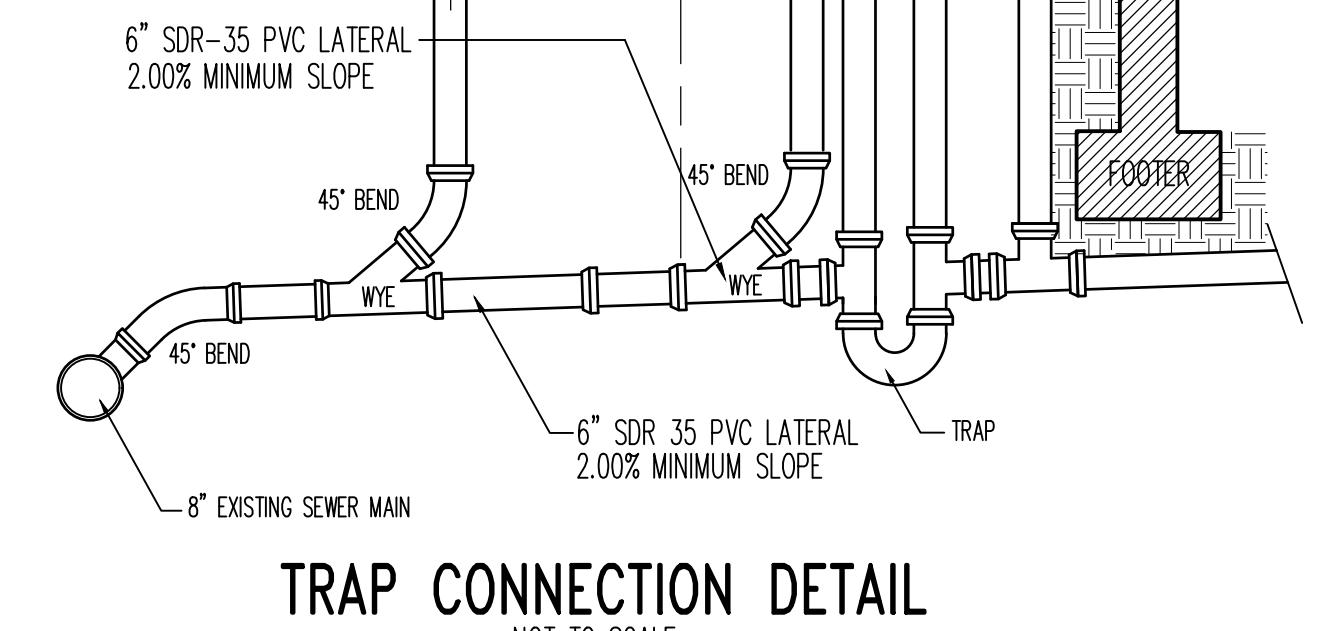
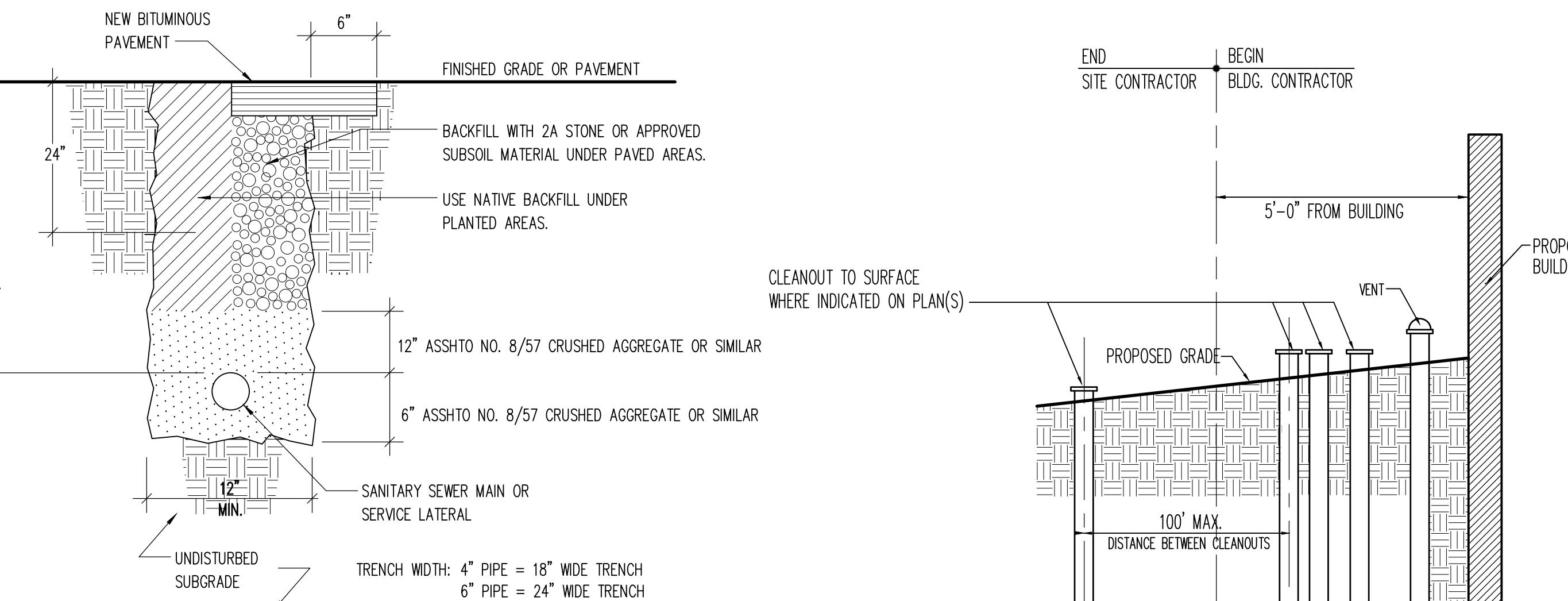
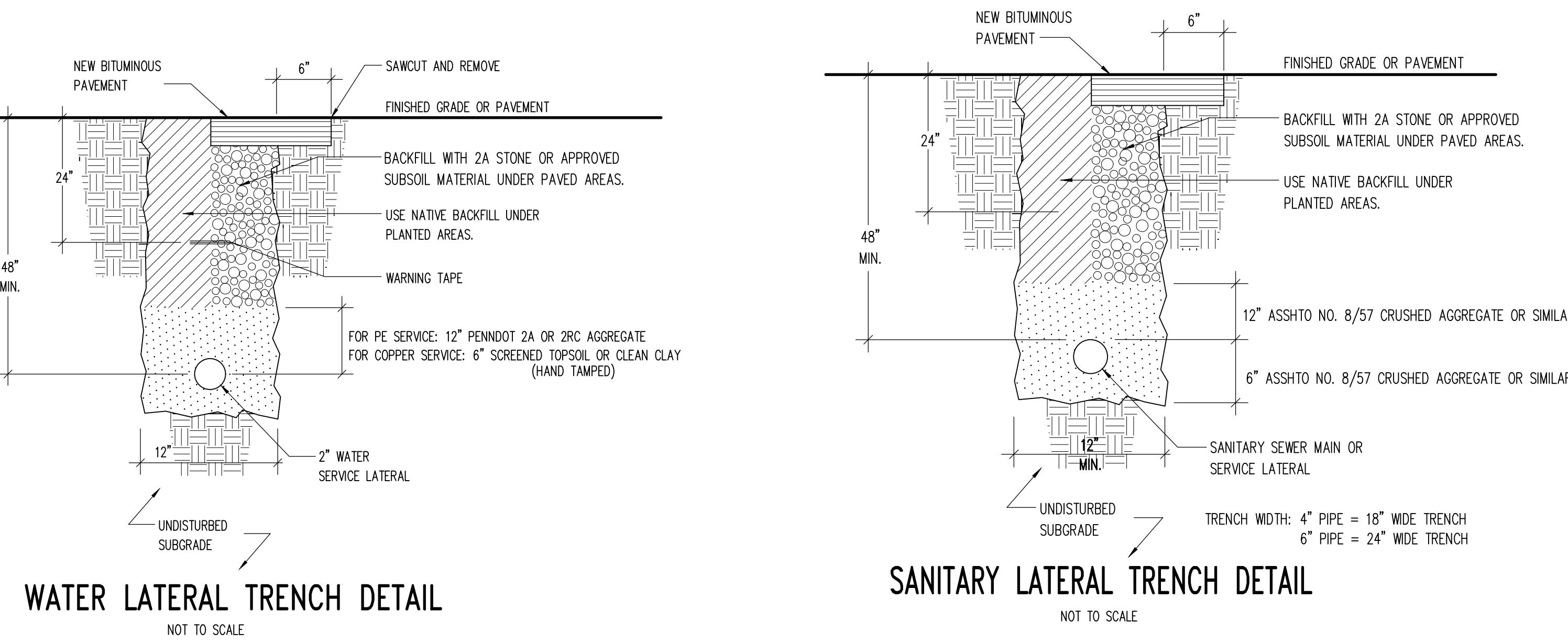
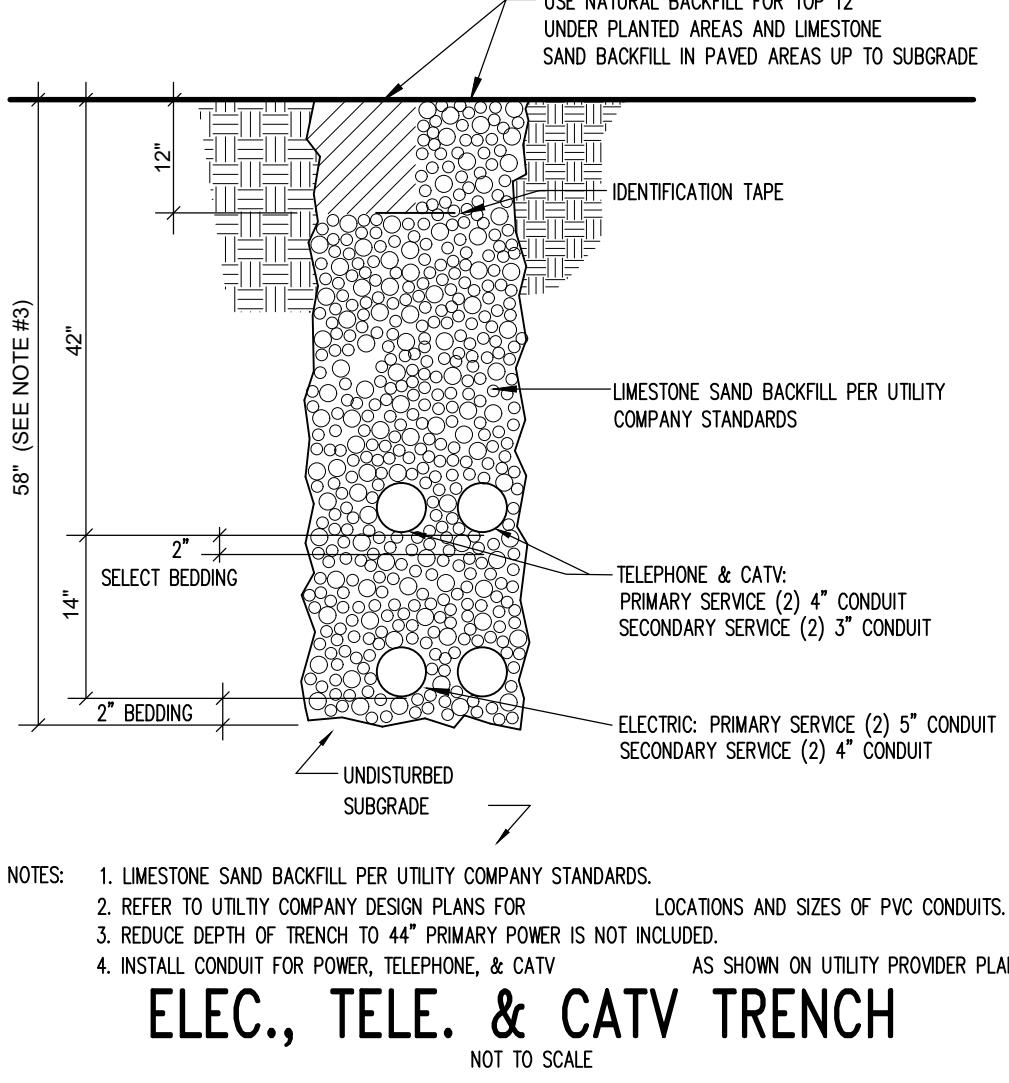
9/28/21 REVISED PER IMP COMMENTS  
9/28/21 REVISED PER IMP COMMENTS  
Date Description REVISIONS

**ORCHARD  
SQUARE**  
FERGUSON TOWNSHIP  
CENTRE COUNTY  
PENNSYLVANIA

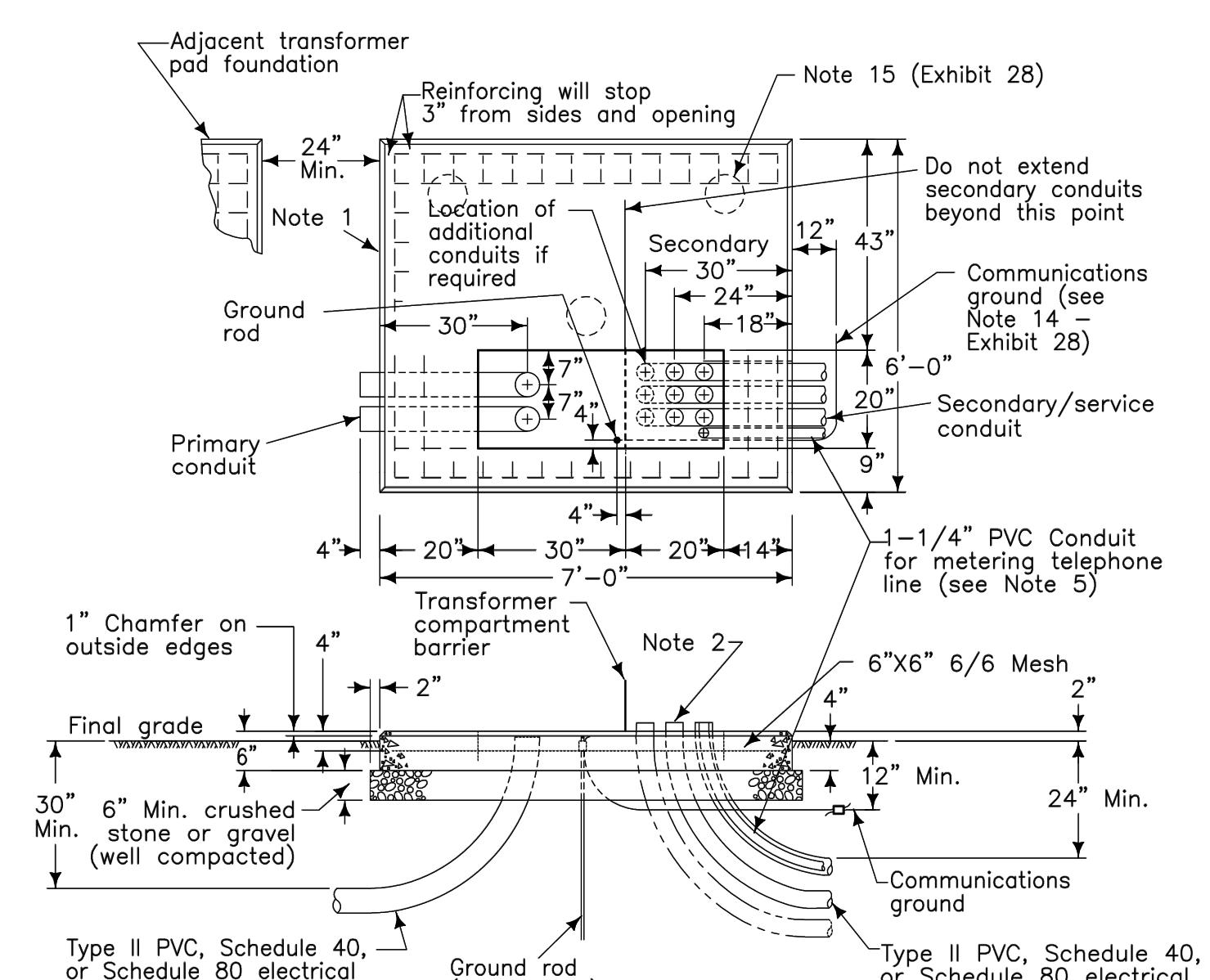
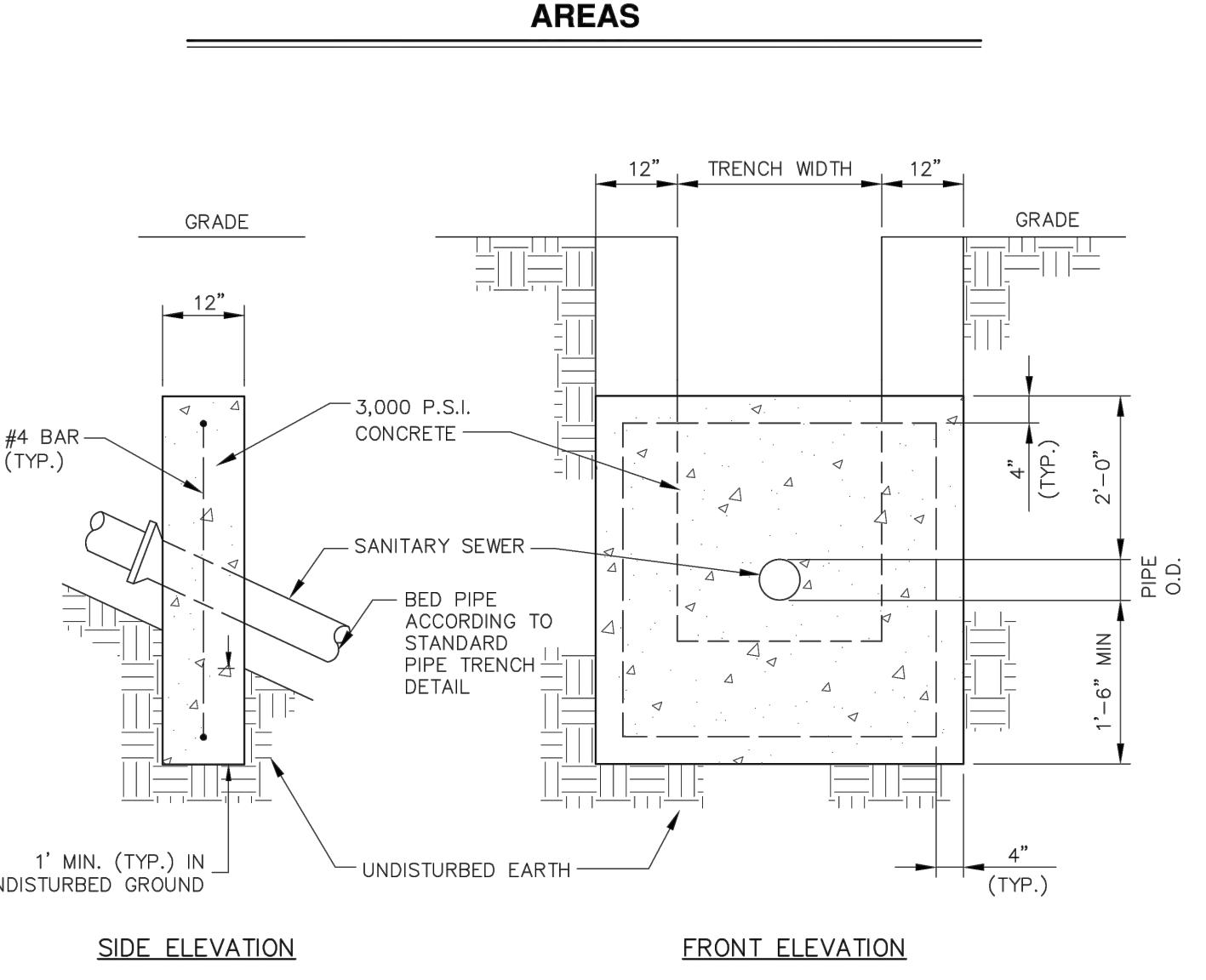
PRELIMINARY LAND  
DEVELOPMENT PLAN

CURB RAMP  
DETAILS

PROJECT NO. 17125.10  
DATE AUGUST 11, 2021  
SCALE N.T.S. SHEET NO. 11



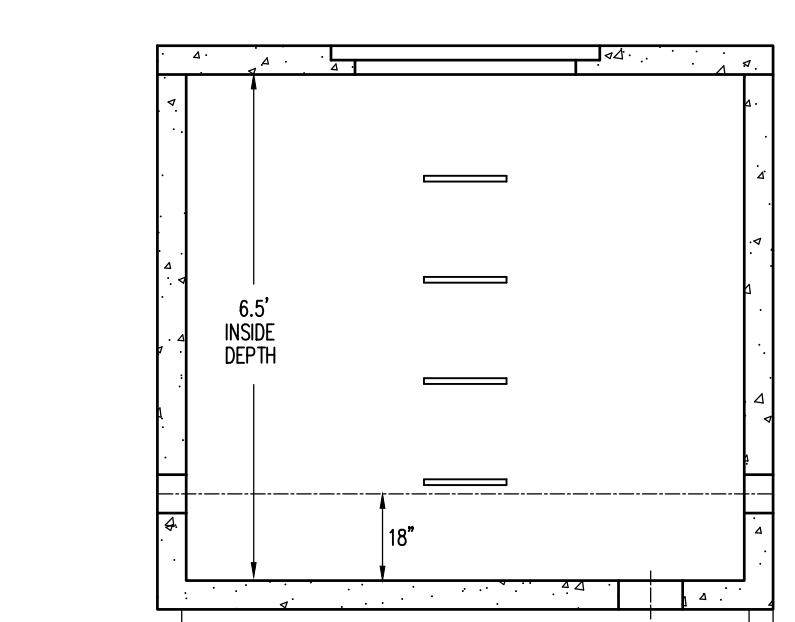
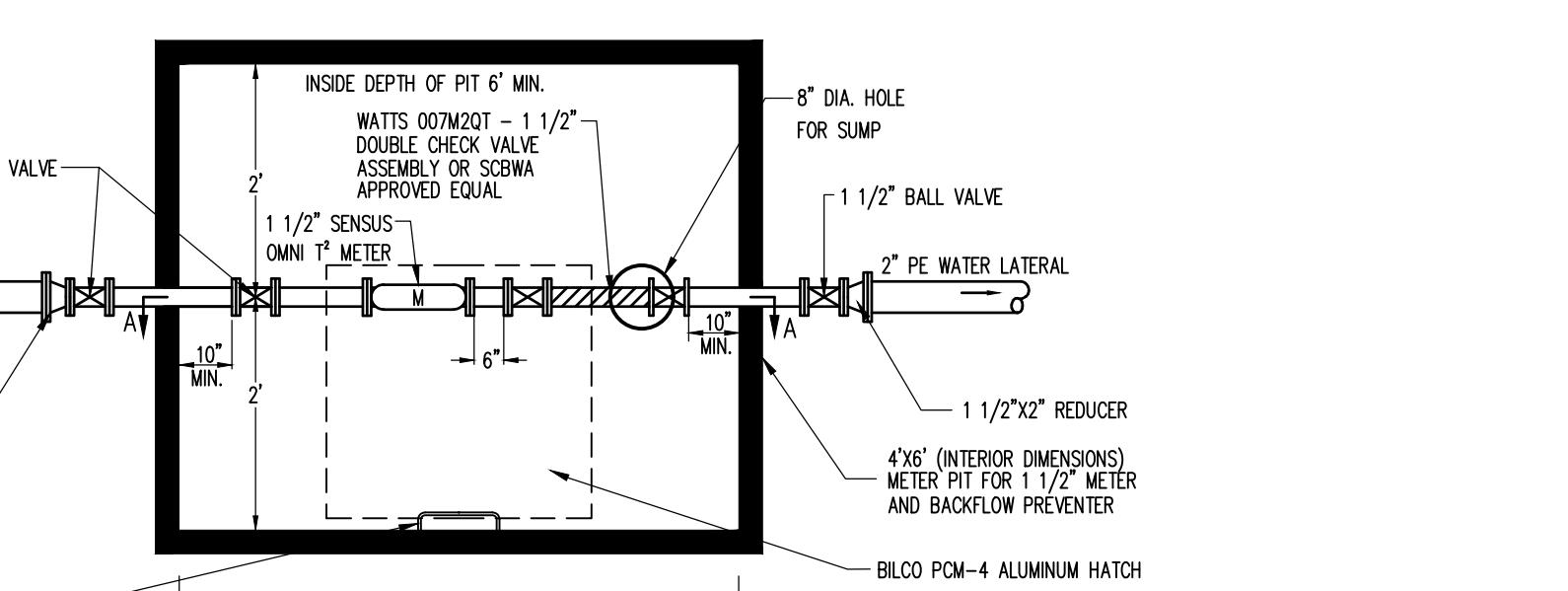
NATURAL GAS SERVICE TRENCH DETAIL  
NOT TO SCALE



- NOTES:
1. Refer to Exhibit 28 for concrete pad foundation, pad-mounted transformer General Notes.
  2. Secondary conduits should not extend more than 2 inches (maximum) above the top of foundation. Primary conduits should be cut off 2 inches below the top of foundation to allow for terminating the cables.
  3. Customer shall furnish and install one 5/8-inch diameter x 8-foot ground rod, grounding connections, and #6 AWG copper communications ground wire (minimum length of wire required - 7-1/2 feet).
  4. See Exhibit 22 for clearance from the building wall or other parts of building.
  5. When required, extend 1-1/4-inch conduit to location at the customer's building where telephone line service can be made available at the telephone demarcation point.

CONCRETE FLAT-PAD FOUNDATION  
PAD-MOUNTED TRANSFORMER 75 TO 500 KVA,  
THREE-PHASE, 34.5 KV & BELOW HIGH-SIDE

FirstEnergy  
Service Guide REV. 0  
EXHIBIT 26 DATE 8/14



1 1/2" METER & DOUBLE CHECK VALVE ASSEMBLY  
NOT TO SCALE

CROSSING KEY	GROUND ELEV.	UTILITY	INVERT ELEV.	CLEARANCE BETWEEN LINES
UC-A	1235.43	24" STORM 8" SANITARY MAIN	1230.47 1226.48	3.32'
UC-B	1241.09	15" STORM (3) 6" SANITARY LAT.	1233.84 1230.91	2.43'
UC-C	1242.45	4" ELECTRIC SERVICE 15" STORM	1239.62 1234.29	4.08'
UC-D	1242.16	4" ELECTRIC SERVICE	1239.33	3.83'
UC-E	1241.70	10" ROOF DRAIN (2) 6" SANITARY LAT.	1235.00 1234.35	3.24'
UC-F	1242.01	10" ROOF DRAIN 4" ELECTRIC SERVICE	1238.34 1237.01	1.00'
UC-G	1239.20	6" SANITARY LAT.	1239.20 1237.03	1.67'
UC-H	1242.23	6" SANITARY LAT. "WATER LAT."	1237.93 1236.60	1.00'
UC-I	1242.14	4" ELECTRIC SERVICE WATER LAT.	1239.31 1237.81	1.17'
UC-J	1242.08	6" ROOF DRAIN 6" SANITARY LAT.	1240.04 1239.51	1.96'
UC-K	1241.62	6" ROOF DRAIN "WATER LAT."	1236.91 1238.70	2.10'
UC-L	1242.13	"WATER LAT."	1237.37	1.00'
UC-M	1242.05	15" STORM "WATER LAT."	1237.57 1236.24	1.00'

\*NOTE: UTILITY LINES DENOTTED BY (\*) ARE TO BE DEFLECTED UNDER THE CROSSING UTILITY LINE TO ACHIEVE THE CLEARANCE BETWEEN LINES LISTED ABOVE.

Designer CJW  
Draftsman CJW  
Proj Manager MAT  
Surveyor MAK/JDF  
Perimeter Ok \_\_\_\_\_  
Book 543 Pg 1  
File 17125-10-PRE-11-DETAILS  
Layout DETAILS (2)

ORCHARD SQUARE  
FERGUSON TOWNSHIP  
CENTRE COUNTY  
PENNSYLVANIA

PRELIMINARY LAND DEVELOPMENT PLAN

UTILITY DETAILS

PROJECT NO. 17125-10  
DATE AUGUST 11, 2021  
SCALE N.T.S. SHEET NO. 12  
NOTES

12

#### STORMWATER MANAGEMENT NOTES

- All site work shall be done in accordance with the plans prepared by PennTerra Engineering, Inc., the current requirements of the governing municipality, the applicable sections of the PennDOT standard specifications for roadway construction, and all other pertinent federal and state laws.
- The Contractor shall comply at all times with specific federal, state and local laws, provisions, and policies governing safety and health, including the federal construction safety act, as amended.
- The Contractor shall be responsible for examining the areas and conditions under which the project is to be constructed prior to the submission of a bid. Submission of a bid to be constructed to mean the Contractor has reviewed the area and conditions with conditions and constraints of the project and the site.
- Contractor shall advise the appropriate utility locator in time by the proper authorities. The Contractor shall notify no one call 1-800-243-1776. The location of all utilities and underground structures are approximate and may not all be shown. It is the responsibility of the Contractor to determine the existence and exact location of all utilities and underground structures.
- An as-built drawing of new utility services shall be prepared by the Contractor and submitted to the Owner upon completion.
- All storm pipe shall be as noted. All joints shall be watertight.
- Contractor shall refer to other plans within this construction set for other pertinent information.
- Co-permittee requirements: Contractor to complete Pennsylvania Department of Environmental Protection (D.E.P.) forms and make application to become co-permittee of the individual NPDES permit prior to commencing any land disturbance. Contractor shall assume full responsibility for any fines or other measures imposed by regulatory agencies due to improper or delayed installation and / or maintenance of the temporary erosion and sedimentation control measures and post-construction stormwater measures installed. Contractor shall remain a co-permittee of the National Pollutant Discharge Elimination System (NPDES) permit until the notice of termination of the NPDES permit has been issued by the PA D.E.P.
- Notice of termination services: Contractor shall be responsible for the services for the notice of termination of the NPDES permit. This includes but is not limited to the following:
  - Hand deliver to the professional engineer responsible for the critical stages of construction noted in the post-construction stormwater management plan. The licensed professional or designer will be responsible for signing the required certification forms and certifying that the facilities have been built according to the approved plans, processing and recording any required forms and the as-built survey through the PA D.E.P. until the notice of termination is received.
  - Provide a copy of the topographic survey sealed by a licensed surveyor from the commonwealth of Pennsylvania of the stormwater management facilities (infiltration basin, rain garden and outlet structures, outlet pipes, tops of berms and spillways).
  - Provide double-ring infiltration tests as outlined in the December 2006 PA D.E.P. Stormwater BMP manual of the produced basin bottom soil mix prior to installation to certify that the soil mix meets the infiltration requirements noted on the plans.
- Contractor shall have a licensed professional submit as-built drawings documentation (including verification of infiltration testing results) of the stormwater management facilities prepared in accordance with chapter 10 of the governing municipality's code of ordinances and submitted to the governing municipality at the completion of construction as a prerequisite of issuance of occupancy permit or release of the surety bond. A narrative and photographic documentation for critical stages of construction and for the infiltration surface prior to placement of filter fabric/amended soils must also be submitted to the governing municipality.
- As-built infiltration testing in infiltration basins shall be performed at the top of the finished native soil layer prior to topsoil placement. This testing is in addition to the testing identified in Note 9.c. The number of infiltration tests performed shall be in accordance with the governing municipality's code of ordinances.

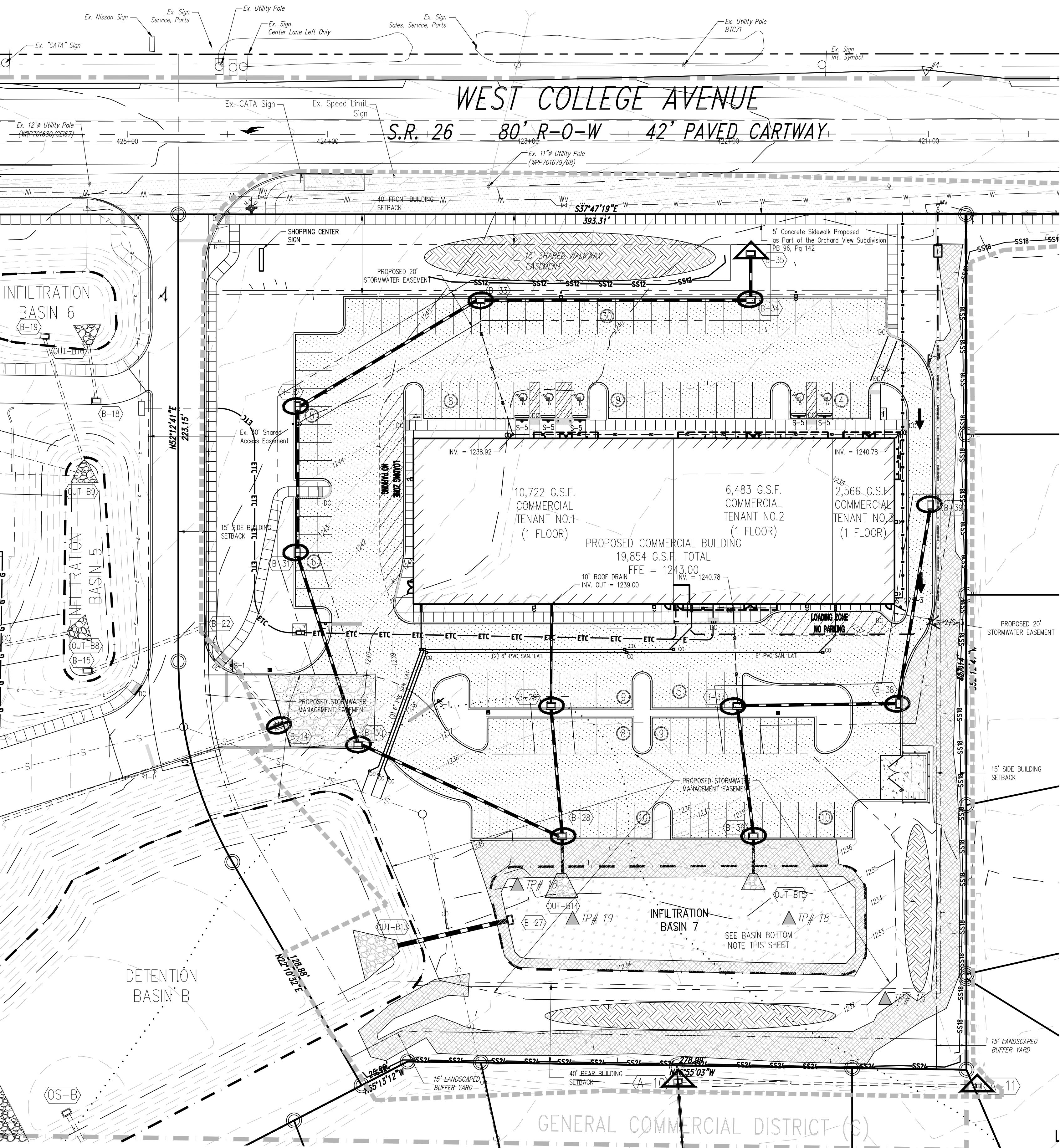
#### Critical Stages of Construction Notes

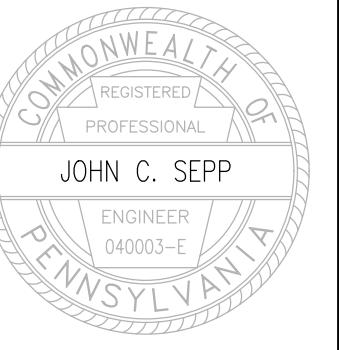
The following stages of construction require that a licensed professional or designer registered within the Commonwealth of Pennsylvania be present onsite. Notice shall be given two weeks prior to commencing construction activities for which the licensed professional will be present. The general site contractor shall be responsible for supplying & coordinating the licensed professional. The licensed professional will be required to certify and seal as-built drawings at the end of construction that the stormwater management facilities have been built to the specifications on the post construction stormwater management plans and details. The contractor shall file this certification with the Centre County Conservation District when the Notice of Termination (NOT) document is completed.

- In order to ensure the basin floor is not compacted, equipment shall not be permitted to operate within the basin when the floor is less than 36" from subgrade elevation. A typical infiltration facility bottom excavation detail has been provided on the plans for construction. Alternatively, the contractor may develop their own plan and methods for bottom excavation. The contractor must review the proposed plan/methods with the licensed professional during the coordination meeting.
- Once subgrade of the facility has been reached, and prior to topsoil placement, the licensed professional and responsible testing firm shall be notified to schedule infiltration testing verification of the subgrade.
- A typical rock over excavation detail has been provided on the plans. Once subgrade of the basin floor has been reached, the contractor shall request the licensed professional review the subgrade to determine if rock over excavation is required.
- Infiltration testing of the final basin floor elevation to verify infiltration rates of the soil mixture (i.e. topsoil and amendments) placed on the basin floor is required. The contractor shall coordinate infiltration testing with the licensed professional and responsible testing firm. It is recommended that this soil mixture also be tested prior to placement.
- The contractor must notify the licensed professional of the installation of the outlet structure, outfall pipe and anti-seep collars prior to backfill to ensure installation has been completed in accordance with the approved plan.
- Compaction testing reports are required on the basin floor. The contractor shall coordinate compaction testing with the licensed professional and responsible testing firm.
- Berms shall be installed and compacted in conformance with the requirements of the local municipality's Stormwater Management Ordinance. If the municipality does not specify compaction requirements, then all berms shall be installed as follows:
  - Whenever berm fill material in excess of 3 feet in height is to be used, each layer of compacted fill shall be tested to determine its density per ASTM D2922 or ASTM D3017.
  - All berm lifts shall be 8" or less.
  - The density of each layer shall be 98% of a Standard Proctor Density analysis per ASTM D698.
- All proposed vegetation within the limits of construction shall be established to a 70% uniform vegetated cover prior to final notice of termination certification.

#### BASIN BOTTOM NOTE

The Infiltration Basin Bottom must be protected from compaction and sedimentation at all times during construction. Infiltration Basin Bottom 7 shall be initially excavated to be 1 foot above the final bottom elevation, as indicated on the Staging of Earth Moving Activities Sequence Step D on Sheet E52. The basin bottom shall remain at this interim elevation through construction until site stabilization is achieved, as indicated on the Staging of Earth Moving Activities Sequence Step L on Sheet E52.





## Standard Erosion and Sediment Control Plan Notes

- All earth disturbances, including clearing and grubbing as well as cuts and fills shall be done in accordance with the approved E&S plan. A copy of the approved drawings (stamped, signed and dated by the reviewing agency) must be available at the project site at all times. The reviewing agency shall be notified of any changes to the approved plan prior to implementation of those changes. The reviewing agency may require a written submittal of those changes for review and approval at its discretion.
- At least 7 days prior to starting any earth disturbance activities, including clearing and grubbing, the owner and/or operator shall invite all contractors, the landowner, appropriate municipal officials, the E&S plan 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 Centre County Conservation District to an on-site preconstruction meeting.
- At least 3 days prior to starting any earth disturbance activities, or expanding into an area previously unmarked, the Pennsylvania One Call System Inc. shall be notified at 1-800-242-1776 for the location of existing underground utilities.
- All earth disturbance activities shall proceed in accordance with the sequence provided in the plan drawings. Deviation from that sequence must be approved in writing from the local conservation district or by the Department prior to implementation.
- Areas to be filled are to be cleared, grubbed, and stripped of topsoil to remove trees, vegetation, roots and other objectionable material.
- Clearing, grubbing, and topsoil stripping shall be limited to those areas described in each stage of the construction sequence. General site clearing, grubbing and topsoil stripping may not commence in any stage or phase of the project until the E&S BMPs specified by the BMP sequence for that stage or phase have been installed and are functioning as described in this E&S plan.
- At no time shall construction vehicles be allowed to enter areas outside the limit of disturbance boundaries shown on the plan maps. These areas must be clearly marked and fenced off before clearing and grubbing operations begin.
- Topsoil required for the establishment of vegetation shall be stockpiled at the location(s) shown on the plan map(s) in the amount necessary to complete the finish grading of all exposed areas that are to be stabilized by vegetation. Each stockpile shall be protected in the manner shown on the plan drawings. Stockpile heights shall not exceed 35 feet. Stockpile slopes shall be 2H:1V or flatter.
- Immediately upon discovering unforeseen circumstances posing the potential for accelerated erosion and/or sediment pollution, the operator shall implement appropriate best management practices to minimize the potential for erosion and sediment pollution and notify the local conservation district and/or the regional office of the Department.
- All building materials and wastes shall be removed from the site and recycled or disposed of in accordance with the Department's Solid Waste Management Regulations at 25 Pa. Code 260.1 et seq., 271.1, and 287.1 et. seq. No building materials or wastes or unused building materials shall be burned, buried, dumped, or discharged at the site.
- All off-site waste and borrow areas must have an E&S plan approved by the local conservation district or the Department fully implemented prior to being activated.
- The contractor is responsible for ensuring that any material brought on site is clean fill. Form FP-001 must be retained by the property owner for any fill material affected by a spill or release of a regulated substance buy qualifying as clean fill due to analytical testing.
- 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 preventive and remedial maintenance work, including clear cut, repair, replacement, regrading, reseeding, remulching and retenting must be performed immediately. If the E&S BMPs fail to perform as expected, replacement BMPs, or modifications of those installed.
- A log showing dates that E&S BMPs were inspected as well as any deficiencies found and the date they were corrected shall be maintained on the site and be made available to regulatory agency officials at the time of inspection.
- Sediment tracked onto any public roadway or sidewalk shall be returned to the construction site by the end of each work day and disposed in the manner described in this plan. In no case shall the sediment be washed, shoveled, or swept into any roadside ditch, storm sewer, or surface water.
- All sediment removed from BMPs shall be disposed of in the manner described on the plan drawings.
- Areas which are to be topsoiled shall be scarified to a minimum depth of 3 to 5 inches – 6 to 12 inches on compacted soils – prior to placement of topsoil. Areas to be vegetated shall have a minimum 4 inches of topsoil in place prior to seeding and mulching. Fill outslopes shall have a minimum of 2 inches of topsoil.
- All fill shall be compacted as required to reduce erosion, slippage, settlement, subsidence or other related problems. Fill intended to support buildings, structures and conduits, etc. shall be compacted in accordance with local requirements or codes.
- All earthen fills shall be placed in compacted layers not to exceed 9 inches in thickness.
- Fill materials shall be free of frozen particles, brush, roots, sod, or other foreign or objectionable materials that would interfere with or prevent construction of satisfactory fills.
- Frozen materials or soft, mushy, or highly compressible materials shall not be incorporated into fills.
- Fill shall not be placed on saturated or frozen surfaces.
- Seeps or springs encountered during construction shall be handled in accordance with the standard and specification for subsurface drain or other approved method.
- All graded areas shall be permanently stabilized immediately upon reaching finished grade. Cut slopes in competent bedrock and rock fills need not be vegetated. 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.
- Immediately after earth disturbance activities cease in any area or subarea of the project, the operator shall stabilize all disturbed areas. During non-germinating months, mulch or protective blanketing shall be applied as described in the plan. Areas not at finished grade, which will be reactivated within 1 year, may be stabilized in accordance with the temporary stabilization specifications. Those areas which will not be reactivated within 1 year shall be stabilized in accordance with the permanent stabilization specifications.
- Permanent stabilization is defined as a minimum uniform, perennial 70% vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated erosion. Cut and fill slopes shall be capable of resisting failure due to slumping, sliding, or other movements.
- E&S BMPs shall remain functional as such until all areas tributary to them are permanently stabilized or until they are replaced by another BMP approved by the local conservation district or the Department.
- Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and/or operator shall contact the local conservation district for an inspection prior to removal/conversion of the E&S BMPs.
- After final site stabilization has been achieved, temporary erosion and sediment BMPs must be removed or converted to permanent post construction 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.
- Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and/or operator shall contact the local conservation district to schedule a final inspection.
- Failure to correctly install E&S BMPs, failure to prevent sediment-laden runoff from leaving the construction site, or failure to take immediate corrective action to resolve failure of E&S BMPs may result in administrative, civil, and/or criminal penalties being instituted by the Department as defined in Section 602 of the Pennsylvania Clean Streams Law. The Clean Streams Law provides for up to \$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.
- 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.
- 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.
- Channels having stone linings must be sufficiently over-excavated so that the design dimensions will be provided after placement of the protective lining.

## Staging of Earthmoving Activities

### Notes:

- A licensed professional or designee shall be present during construction of the basin. The contractor must coordinate with this responsible party prior to construction.
- The proposed infiltration basins must be protected from compaction and sedimentation. Excavation within the proposed infiltration basin bottoms at any point during construction must be made in accordance with the infiltration basin bottom excavation detail found on the stormwater management details sheet.
- The infiltration basin shall be constructed to interim elevations during the erosion and sedimentation stage. The interim elevations for all infiltration basins are higher than final grade. In locations where stormsewer outlet into the infiltration basin, the basin may be excavated to final grade within a footprint area necessary to accommodate the rip-rap apron of the outlet.

**Sequence:** All earth disturbance activities shall proceed in accordance with the following staging of earthmoving activities. Each stage shall be completed before a subsequent stage is initiated.

- Install the rock construction entrance, for the site at the location shown on the Erosion and Sedimentation Control Plan (E&SCP).
- Install the entire site perimeter silt sock, where shown on the E&SCP.
- Strip the topsoil Infiltration Basin 7 and stockpile at the location shown on the E&SCP. Seed the stockpile with the temporary seeding mixture and repair silt sock if damaged.
- Commence with construction of the proposed Infiltration Basin 7 (refer to Notes above). Construction of the basin shall include the outlet structure, outlet pipe and anti-seep collars. Stabilize the basin bottom with the temporary seeding mixture and sides with topsoil and appropriate permanent seeding mixture.
- Strip the topsoil from the remaining site construction area and stockpile at the location shown on the E&SCP. Seed the stockpile with the temporary seeding mixture and repair silt sock if damaged.
- Begin the rough grading of the remainder of the site.
- Once final grade of the building is reached, commence with the building construction. Continue with all other parking and driveway construction.
- Commence with construction of all utilities. All utilities are to be installed at the rate of the length of the utility that can be installed and backfilled in one day. All stormsewer shall be installed beginning at the downstream end and working upstream. Any erosion controls disturbed from the installation of these utilities shall be repaired or replaced properly at the end of each day. Inlet protection shall be placed immediately on all newly installed inlets and outlet protection installed at outlets.
- Continue with the site driveway and parking construction until all utilities are installed. Bring them to sub grade and stabilize with stone.
- Begin the paving operations, thus removing the rock construction entrance. All curbing and sidewalks shall also be installed.
- Check all erosion controls on a daily basis and make any needed repairs or replacements as needed immediately. Any erosion control disturbed or removed by the installation of utilities shall be repaired or replaced to proper functioning condition by the end of that same day. All areas abandoned for more than four (4) days are to be seeded with the temporary seeding mixture.
- Current regulations state: (a) Upon completion of an earth disturbance activity or any stage or phase of an activity, the site shall be immediately seeded, mulched or otherwise protected from accelerated erosion and sedimentation. (b) Erosion and sediment control BMPs shall be implemented and maintained until the permanent stabilization is completed. (c) For an earth disturbance activity or any stage or phase of an activity to be considered permanently stabilized, the disturbed areas shall be covered with one of the following: (1) A minimum uniform 70% perennial vegetative cover, with a density capable of resisting accelerated erosion and sedimentation. (2) An acceptable BMP which permanently minimizes accelerated erosion and sedimentation. Once stabilization has been achieved, all temporary erosion and sediment controls may be removed as follows:
  - Finalize the Infiltration Basin Construction. Apply the appropriate permanent seeding to all disturbed areas of the basin.
  - Remove all temporary controls, such as silt sock, topsoil stockpiles and inlet protection. Any areas disturbed by the removal of these controls shall be stabilized immediately with a permanent seeding mixture. Install Flexstorm Pure Inlet Filters within the appropriate inlets.

## Temporary Control Measures

Temporary control measures will be implemented to ensure that erosion is minimized and that sediment is retained during construction. The rock construction entrance will be provided at the site entrance to prevent tracking of sediment from the site. Silt sock will be placed at the locations shown on the Erosion and Sedimentation Control Plan to provide proper filtration of the site runoff. Inlet protection will be installed at inlets to prevent the sedimentation of the storm sewer systems.

Temporary seeding on all disturbed areas shall be done immediately after grading is finished and shall consist of the following:

Item	Rate
1. Agricultural grade limestone	1 ton / acre
2. Fertilizer 10-10-10	500 lbs. / acre
3. Annual ryegrass	40 lbs. / acre
4. Mulch (straw)	3 tons / acre

## Permanent Control Measures

Permanent control measures include the storm sewer, curbing, basin and seeding / landscaping.

Permanent seeding on all disturbed areas may consist of the following:

Soil Enhancements: For permanent seeding outside of the basin bottom, it is recommended that site specific soil testing be performed. Lieu of soil test recommendations, use the following acceptable schedule:

Apply 6 tons/acre (240 lbs./1,000 s.f.) Dolomitic Limestone and 1,000 lbs./acre (25 lbs./1,000 s.f.) of 10-20-20 fertilizer before seeding. Harrow or disc into upper three inches of soil. Permanent seeding on all basin bottom areas may consist of the following:

### Permanent seeding on Infiltration Basin Bottom may consist of the following:

Item	Rate
1. Seed Mixture Consists of: ERNMIX-180 by Ernst Seeds (or equal)	20 lbs. / acre (pure live seed)
2. Lolium multiflorum (Annual Ryegrass)	30 lbs. / acre (pure live seed)
3. Mulch	3 tons / acre

### Permanent seeding on all Basin Sides and other 3:1 slopes may consist of the following:

Item	Rate
1. Seed Mixture Consists of: ERNMIX-181-1 (Spring-Sept.)/ERNMIX 181-2 (Sept.1-Feb15) by Ernst Seeds (or equal)	45 lbs. / acre (pure live seed)
2. Lolium multiflorum (Annual Ryegrass)	25 lbs. / acre (pure live seed)
3. Mulch	3 tons / acre

### Permanent seeding on all other disturbed areas may consist of the following:

Item	Rate
1. Seed Mixture Consists of: 50% Poa pratensis (Kentucky Bluegrass) 30% Festuca rubra (Creeping Red Fescue) 20% Lolium perenne L. (Perennial Rye)	102 lbs. / acre
2. Mulch	3 tons / acre

For lawn areas, a suitable lawn mixture, such as Agway's Royal Green, shall be substituted for Item 3 of the permanent seeding mixture and applied at the rate directed by the manufacturer.

\*Mulching: Apply mulch immediately after seeding and anchor properly with an anchoring tool or following one of the methods listed below.

- Tracking: The process of cutting mulch into the soil via equipment that runs on tracks, is employed primarily on slopes 3:1 or steeper.
- Mulch Nettings: Staple lightweight biodegradable paper, plastic or cotton netting over the mulch according to the manufacturer's recommendations.
- Synthetic Binders: Synthetic binders such as acrylic DLR (AGRI-TAC), DCA-70, Petrosat or Terratack may be used at rates recommended by the manufacturer to anchor mulch material.
- Wood Cellulose Fiber: The fiber binder shall be applied at a net dry weight of 750 lb/acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 lbs of wood cellulose fiber per 100 gallons.
- Peg & Twine: Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions. Stakes may be driven before or after applying mulch. Secure mulch to surface by stretching twine between pegs in a criss-cross within a square pattern. Secure twine around each peg with two or more turns.

## Maintenance Program

During construction, the contractor will be responsible for maintenance and repair of all erosion and sedimentation control facilities. These facilities should be inspected weekly and after every runoff event. Any erosion control disturbed during construction or found to be inadequate upon inspection shall be repaired or replaced within 24 hours after the disturbance or the discrepancy is discovered. All inspections and repairs shall be documented within a written report and retained for record keeping. The maintenance of the erosion control facilities will include the following:

### Construction Entrance:

a. The entrance shall be maintained in a condition that will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measure used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way section of the filter fabric fence which has been undermined or topped must be immediately replaced with a rock filter outlet.

### Inlet Protection:

a. Sediment shall be removed from the structure and spread over an existing stockpile with controls already in place, or spread over an existing windrow and seeded with the temporary seeding mixture.

b. The structure should be checked regularly to ensure its soundness. If the stone filter has been disturbed and cannot perform its proper protective function, additional stone should be installed to provide adequate filtration.

### Soil Materials:

a. All sediment removed from erosion and sedimentation pollution control facilities shall be spread over spoil areas with controls already in place. Stabilize the spoil material with the temporary seeding mixture.

### Permanent Seeding:

a. If the vegetative cover is not established uniformly by the third mowing, the contractor shall reapply topsoil if necessary and seed and mulch as needed to provide adequate coverage.

### Silt Socks:

a. The Contractor shall maintain the socks in a functional condition at all times and it shall be routinely inspected.  
b. Where the socks require repair, it will be routinely repaired.  
c. The contractor shall remove sediment collected at the base of the sock when they reach 1/2 of the exposed height of the sock, or as directed by the Engineer. Alternatively, rather than create a soil disturbing activity, the engineer may call for additional sock to be added at areas of high sedimentation, placed immediately on top of the existing sediment laden sock. The sock will be dispersed on site when no longer required, as determined by the Engineer.

## Recycling and Disposal of Materials

The operator shall remove from the site, recycle, or dispose of all building materials and wastes in accordance with the Department's Solid Waste Management Regulations at 25 PA. Code 260.1 et seq., 271.1 et seq. and 287.1 et seq. The contractor shall not illegally bury, dump, or discharge any building material or wastes.

Wastes generated during the construction of this project shall be recycled if at all possible. Any materials that cannot be recycled or reused shall be disposed of at a Pennsylvania Department of Environmental Protection approved landfill. If soil and/or rock disposal areas are required, erosion and sedimentation controls shall be implemented at these areas. Any excess soil waste may only be disposed of at an approved E&S/NPDES permitted site.

## Responsibilities for Fill Materials

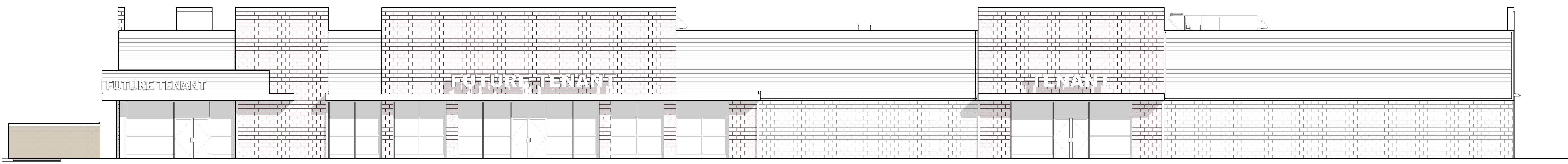
The contractor is responsible to use environmental due diligence to ensure any fill material required to be imported to or exported from the site qualifies as Clean Fill.

Clean Fill is defined as: Uncontaminated, non-water soluble, non-decomposable, inert, solid material. The term includes soil, rock, stone, dredged material, used asphalt, and brick, block or concrete from construction and demolition activities that is separate from other waste and is recognizable as such. The term does not include materials placed in or on the waters of the Commonwealth unless otherwise authorized. (The term "used asphalt" does not include milled asphalt or asphalt that has been processed for re-use.)

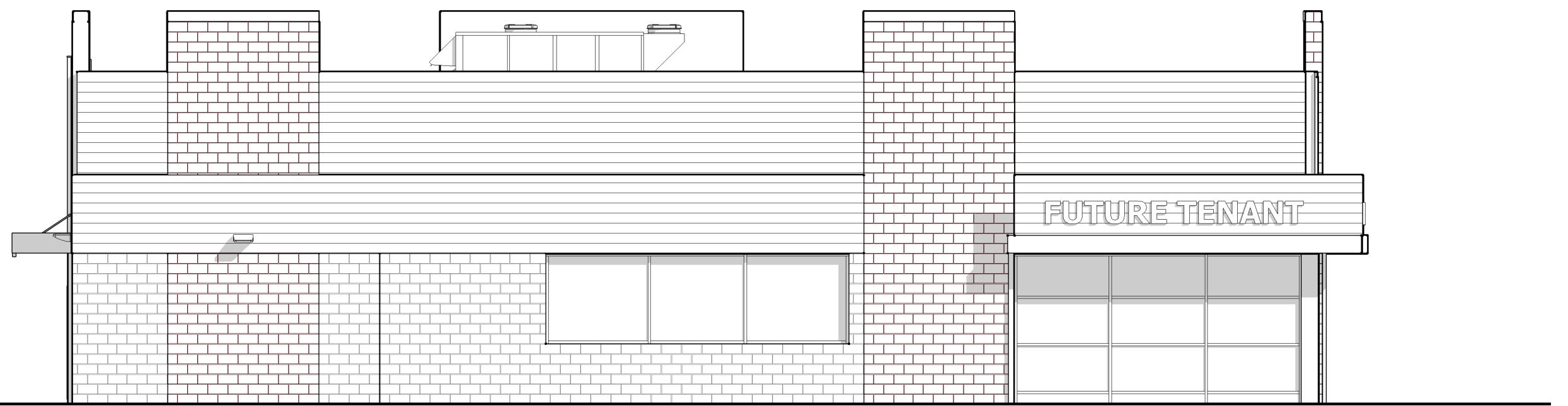
Environmental due diligence: Investigative techniques, including, but not limited to, visual property inspections, electronic data base searches, review of property ownership, review of property use history, Sanborn maps, environmental questionnaires, transaction screens, analytical testing, environmental assessments or audits. Analytical testing is not a required part of due diligence unless visual inspection and/or review of the past land use of the property indicates that the fill may have been subjected to a spill or release of regulated substance. If the fill may have been affected by a spill or release of a regulated substance, it must be tested to determine if it qualifies as clean fill. Testing should be performed in accordance with Appendix A of the Department's policy "Management of Fill".

Fill material that does not qualify as clean fill is regulated fill. Regulated fill is waste and must be managed in accordance with the Department's municipal or residual waste regulations based on 25 Pa. Code Chapters 287 Residual Waste Management or 271 Municipal Waste Management, whichever is applicable.

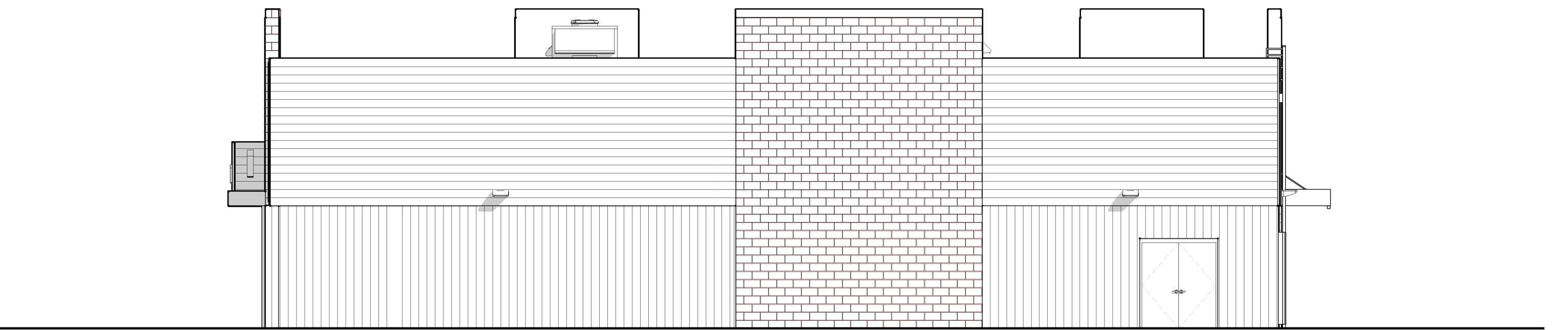




FRONT ELEVATION



SIDE ELEVATION



SIDE ELEVATION

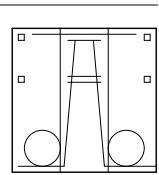


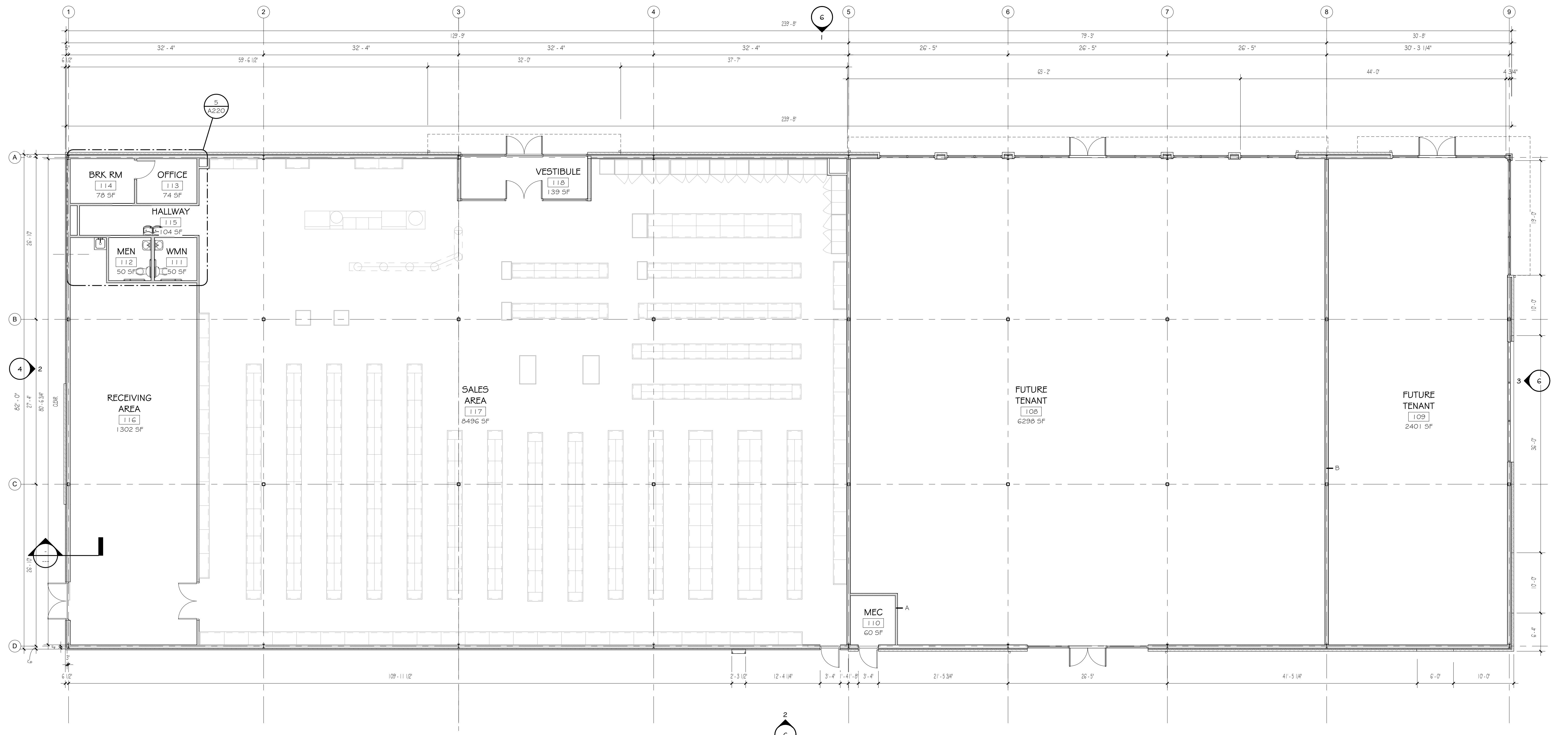
REAR ELEVATION

HARNER FARM

ELEVATIONS

david b. albright, a.i.a architect  
06/17/21 1/8" = 1'-0"





HARNER FARM

FRIST FLOOR PLAN

david b. albright, a.i.a architect  
06/17/21

1/8" = 1'-0"

