

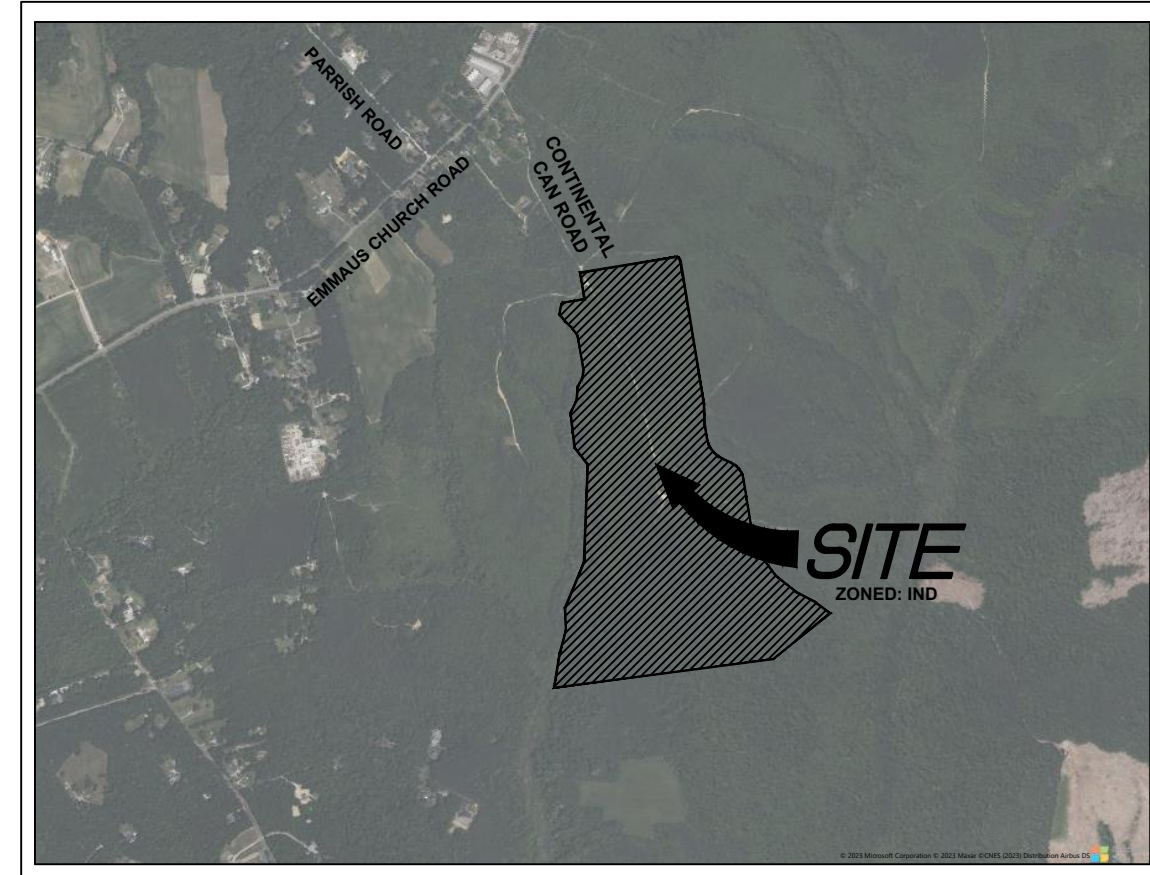
**VIRGINIA DEPARTMENT OF TRANSPORTATION
SUBDIVISION AND SITE CONSTRUCTION PLAN GENERAL NOTES**

- All materials and construction within the public right of way shall be in accordance with the latest edition of the Virginia Department of Transportation's Road and Bridge Specifications, Road and Bridge Standards and Virginia Work Area Protection Manual.
- Land Use Permits (LUP) shall be obtained from the Virginia Department of Transportation prior to beginning any construction within the existing state maintained right-of-way (including access).
- VDOT requires notification 48 hours prior to commencing with initial construction activities. Please contact the appropriate permit office in which your proposed activities are to occur.
- Approval of a detailed construction sequencing and maintenance of traffic plan for the work zone is a prerequisite for issuance of a Land Use Permit. The plan shall accommodate access to and construction within VDOT maintained right-of-way.
- Work Zones - Requests for the implementation of temporary lane and shoulder closures on Interstate, Limited Access Primary Routes, and Routes 58 and 460 must be entered into the VDOT Lane Closure Advisory Management System (LCAMS) by 12:00 pm on Thursday the week before the work is to take place for approval. Contact the Work Zone Coordinator at 804-609-5338 for questions and assistance. All lane/shoulder closures requiring LCAMS approval shall be entered into VA Traffic Lane/Shoulder closures on primary and major secondary routes must also be entered in VA Traffic. Major secondary routes are defined as those listed in the Richmond District Recommended Work Hours document. Just prior to the first cone24 going down, users must contact the TOC at 804-796-4520 to activate the work zone and when the last cone has been picked up to deactivate the work zone.
- Permittee must notify Virginia Department of Transportation TOC when there is a crash in a work zone at 804-796-4520.
- Prior to any construction, the contractor shall consult the developer's engineering consultant and verify the approval of the plans by all applicable federal, state and local agencies.
- Contractor shall verify location and elevation of all underground utilities shown on plans in areas of construction prior to starting work. Contact the developer's engineering consultant immediately if location or elevation is different from that shown on plan. If there appears to be a conflict, or upon discovery of any utility not shown on this plan, call "Miss Utility" at 811. The developer shall be responsible for the relocation of any utility within existing and proposed right of way required by the development.
- The permittee or their agent must contact the VDOT Customer Service Center at 1-800-367-7623 a minimum of 48 hours prior to initiating any planned excavation within 1,000 feet of a signalized intersection and/or near VDOT ITS infrastructure. Excavation may proceed only after the VDOT regional utility location agent has notified the permittee that the utility marking has been completed. Additional information can be found at http://www.virginiadot.org/businessresources/IM/TE-383_Request_For_Marking_VDOT_Utility_Location.pdf. "Miss Utility" does not locate VDOT utilities.
- The contractor shall verify the elevations of all points of connection of proposed work to existing curbs, sanitary lines, water lines, etc., prior to construction.
- Design changes, specified materials changes and field changes from the approved plans shall be re-submitted to VDOT for approval prior to proceeding with the work. A letter of explanation shall accompany the proposed revision along with drainage calculations when appropriate.
- VDOT approval of construction plans does not preclude the right to require additional facilities as deemed necessary for acceptance of the roads into the VDOT Secondary Road System based on field conditions or unapproved plan changes.
- VDOT approval of these plans will expire five (5) years from the date of approval for site plans and subdivision plans if construction has not started.
- Preliminary design of the pavement structure for all subdivision streets shall be in accordance with the current edition of *The Pavement Design Guide for Subdivision and Secondary Roads in Virginia*. The completed design worksheet appendix IV shall be included with the initial plan submittal for each proposed pavement section utilizing the predicted soil support value shown in Appendix I of The Pavement Design Guide or as reported in a geotechnical analysis of the on-site soils.
- A copy of the complete CBR report shall be submitted to VDOT in conjunction with final pavement designs. All pavement design recommendations shall be performed in accordance with the current edition of *Pavement Design Guide for Subdivision and Secondary Roads in Virginia*.
- All vegetation and organic material shall be removed from the right of way limits prior to conditioning of the subgrade.
- Upon discovery of soils that are unsuitable for foundations, subgrades, or other roadway construction purposes, the developer or his design engineer, which may be the contractor, shall immediately engage a geotechnical engineer and notify VDOT. These areas shall be excavated below plan grade as directed by the geotechnical engineer, backfilled with suitable material and compacted in accordance with current VDOT specifications.
- The necessity and locations for additional VDOT standard underdrains shall be determined at time of subgrade inspection. Video inspection of accessible outlet locations, manline longitudinal connections, and longitudinal pipe for all pavement underdrains, cross drains, edge drains and prefabricated geocomposite panel drains shall be conducted in accordance with Section 501 of the *Road and Bridge Specifications and Virginia Test Method 108 - Post Installation Inspection of Underdrains, Crossdrains, and Edge Drains*.
- VDOT shall have performed the required field inspection (proof roll) prior to placement of the aggregate base course(s). Contact VDOT for subgrade inspection 48 hours prior to scheduling placement of aggregate base course(s).
- The scheduling of aggregate base installation and subsequent paving activities shall accommodate forecasted weather conditions per Section 315 of *The Road and Bridge Specifications*.
- VDOT shall have approved the aggregate base course(s) for depth, template and performed the required field inspection (proof roll) prior to placement of any asphalt concrete surface course(s). Contact VDOT for inspection of the aggregate base course(s) 48 hours prior to application of the surface course(s).
- A licensed geotechnical engineer or his designee shall access in cause and certify recommended method of repair for all pavement structural failures prior to state acceptance.
- VDOT shall be provided documentation by a licensed geotechnical engineer, certifying that all in-place pavements meet or exceed the approved pavement design thickness prior to state acceptance of the street. Cores are to be obtained verifying pavement thickness unless otherwise directed by VDOT. The Permit Inspector shall be contacted 24 hours prior to the core samples being taken.
- All storm sewer design and construction shall be in accordance with latest *VDOT Drainage Manual, Road and Bridge Standards*, and HMs.
- All pre-cast units shall be VDOT approved. Certification and VDOT stamp is required on all units.
- All concrete shall be class A3-AE (air entrained 3,000 PSI) unless otherwise specified.
- All roadside ditches shown as paved on plans are to be paved in accordance with the standard typical section as shown on the plans. Any additional paving of the ditches, other than those shown on the road plans will be determined prior to acceptance of the roads into the VDOT secondary road system. Contact the developer's Road & Bridge Specifications Section 302, Drainage Structures addresses post installation visual/video camera inspection of storm sewer pipes and pipe culverts. Inspection frequency shall be in accordance with the specifications and/or as necessitated by the Engineer. Video inspection shall be conducted in accordance with *Virginia Test Method (VTM) 123, Post Installation Inspection of Buried Storm Sewer Pipe and Pipe Culverts*.
- A construction entrance shall be installed on each individual lot prior to any lot grading or home construction activities and shall be adequately maintained until all construction traffic areas within the lot have been stabilized.
- All entrances shall be designed and constructed in accordance with current VDOT standards. Residential lot access shall be provided per the following criteria:
 - All driveway entrances and entrance culverts shall conform to PE-1 private entrance standards unless otherwise approved by VDOT. No entrance culverts are to be installed within five (5) feet of a property corner.
 - VDOT standard CG-9D entrances shall be used when an entrance is required in curb and gutter neighborhoods unless otherwise approved by VDOT.
- Dry gutter is not allowed in VDOT right of way except as shown on VDOT's entrance standard details.
- The developer shall furnish and install stop signs and stop bars at street intersections and all regulatory signage per the *Manual of Uniform Traffic Control Devices*. All signs must be installed on VDOT standard STP-1 sign posts.
- Installation, maintenance and operation of street lighting shall be provided by and at the sole expense of others. VDOT will allow lighting within the right of way by Land Use Permit (LUP) only. Lighting on curb-sections shall be placed behind the curb and preferably behind the sidewalk. For shoulder sections, the pole shall be placed a minimum of 10' from edge of pavement and behind the ditch line. All lighting proposed within the right of way must be designed in accordance with the *ASTM Guide for Roadway Lighting* and shall meet the current Illuminating Engineering Society of North America (IESNA) Standards.
- Traffic signals require an individual Land Use Permit. The applicant shall be responsible for the design costs of any traffic signal installation or modification of existing signals. Design plans must be prepared and submitted to VDOT by a licensed professional engineer for review and approval. This includes the foundation design and any equipment associated with the completed traffic signal. All equipment must be approved by VDOT. Shop drawings must be submitted for review and approval prior to fabricating any signal structural components.
- Soil stabilization is required within 7 days for all areas where clearing, grading, excavation or other land disturbing activities have permanently ceased or where land disturbance activities have been temporarily suspended for an anticipated duration of greater than 7 days, or upon completion of grading operations for a specified area. Soil stabilization shall begin as soon as practicable, but not later than the seven days following the day when land disturbing activities temporarily or permanently ceased. No structure shall be constructed on state maintained right of ways, or on right of ways intended to be maintained by VDOT unless said structures are shown on construction plans approved by VDOT or such structures are covered by a VDOT LUP (or by a letter of intent from the Resident Administrator/Resident Engineer to issue said permit at the time of state acceptance).

FORGE LOGISTICS BUILDING TWO

SP#: _____

SAINT PETERS MAGISTERIAL DISTRICT NEW KENT, VIRGINIA



VICINITY MAP

SCALE: 1" = 2,000'

SCANNELL PROPERTIES

DEVELOPER

August 21, 2023

CONSTRUCTION NOTES

- THIS PROJECT TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST VDOT ROAD & BRIDGE SPECIFICATIONS AND ROAD DESIGN & STANDARDS INCLUDING ALL SUBSEQUENT REVISIONS.
- SEWER: PUBLIC
WATER: PUBLIC
- CONTRACTOR SHALL VERIFY BOTH HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL ACQUIRE ANY AND ALL NECESSARY CONSTRUCTION PERMITS.
- DATUM FOR ALL ELEVATIONS IS U.S.C.& G.
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
- ALL SUBGRADE MATERIAL SHALL HAVE A MINIMUM CBR VALUE OF TEN (10). PRIOR TO PLACEMENT OF AGGREGATE BASE COURSE, THE CONTRACTOR SHALL HAVE AT LEAST TWO CBR TESTS DONE BY A QUALIFIED GEOTECHNICAL FIRM. RELATIVE TO THE RESULTS, THE ENGINEER MAY ALTER THE PAVEMENT DESIGN.
- STAKING SHALL BE DONE ONLY BY A CERTIFIED LAND SURVEYOR. DO NOT STAKE FROM THESE PLANS.
- ALL MATERIAL FOR WATER AND SEWER SYSTEMS SHOWN SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH LATEST APPLICABLE SPECIFICATIONS OF NEW KENT COUNTY.
- ALL WORK SHALL BE SUBJECT TO INSPECTION BY DESIGNATED COUNTY OFFICIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE CHIEF INSPECTOR 48 HOURS PRIOR TO START OF WORK.
- A LAND DISTURBANCE PERMIT IS REQUIRED PRIOR TO ANY LAND DISTURBANCE. THE OWNER NEEDS TO ARRANGE PRE-CONSTRUCTION MEETING WITH REPRESENTATIVE OF NEW KENT COUNTY ENVIRONMENTAL DEPARTMENT AT LEAST 48 HOURS PRIOR TO LAND DISTURBANCE.
- WATER AND SEWER ALIGNMENT HAVE NOT BEEN TESTED FOR THE PRESENCE OF ROCK.
- STANDARD VDOT STOP SIGN TO BE FURNISHED AND INSTALLED BY DEVELOPER.
- ANY ROADSIDE DITCHLINES WHICH HAVE NOT ESTABLISHED A GOOD SOD BY STATE ACCEPTANCE WILL BE PAVED PER CURRENT VDOT CRITERIA.
- ALL NEW AND RELOCATED UTILITIES ARE TO BE INSTALLED UNDERGROUND INCLUDING ELECTRIC, TELEPHONE, AND CATV.
- SIGNS, PLANTINGS, STRUCTURES OR OTHER OBSTRUCTIONS WHICH OBSCURE OR IMPEDE SIGHT LINES BETWEEN THREE FEET AND SIX FEET IN HEIGHT ABOVE GRADE SHALL BE PROHIBITED WITHIN THE SIGHT TRIANGLE. A RIGHT OF ENTRY FOR THE PURPOSE OF REMOVING ANY OBJECT, MATERIAL OR OTHER OBSTRUCTION THAT HINDERS THE CLEAR SIGHT ACROSS THE AREA SHALL BE DEDICATED TO THE COUNTY.

SITE INFORMATION

- DEVELOPER:
 - NAME: SCANNELL PROPERTIES
 - ADDRESS: C/O MR. JOEL SCANNELL, 8801 RIVER CROSSING BLVD., INDIANAPOLIS, INDIANA 46240
 - PHONE: (317) 843-5959 OFFICE
- CIVIL ENGINEER:
 - NAME: TIMMONS GROUP
 - ADDRESS: C/O MS. KATHLEEN HALPAUS P.E., 4701 OWENS WAY, SUITE 900, PRINCE GEORGE, VIRGINIA 23875
 - PHONE: (804) 541-6619 OFFICE (804) 458-1511 FAX
- PROPERTY OWNER:
 - NAME: SPF INVESTMENTS LLC
 - ADDRESS: 403 E GRACE STREET, RICHMOND, VIRGINIA 23219
- PARCELS:
 - GPIN: H13-0380-4661; TAX MAP#: 32-4; DEED BOOK 414, PAGE 409; SITE AREA: 612.57 AC.
- CURRENT PARCEL ZONING: (IND) INDUSTRIAL OPPORTUNITY
- ZONING REQUIREMENTS:
 - MINIMUM LOT AREA:
 - WITH PUBLIC WATER AND SEWER = 20,000 SQ. FT.
 - MINIMUM LOT WIDTH:
 - ALL LOTS SHALL HAVE A MINIMUM WIDTH OF 150'
 - MINIMUM FRONT SETBACK:
 - PRINCIPAL STRUCTURES = 70 FEET
 - ACCESSORY STRUCTURES = 30 FEET
 - BUFFER BETWEEN PARKING AND STREET = 30 FEET
 - MINIMUM REAR YARD:
 - ACCESSORY STRUCTURES, PARKING AND DRIVE AISLES = 10 FEET
 - MINIMUM SIDE YARD:
 - ACCESSORY STRUCTURES, PARKING AND DRIVE AISLES = 10 FEET
 - MAXIMUM HEIGHT:
 - 75 FEET
 - UNDEVELOPABLE AREAS: 99.08 Ac.± (16%)
AREA OF WETLANDS: 34.65 Ac.± (6%)
 - LIMITS OF DISTURBANCE = 104.75 Ac.
 - IMPERVIOUS SURFACE AREA: 83.44 Ac. (79.7%)
 - MAP NO. 51127C0200CB VERSION 2.6.3.6 DATED OCTOBER 21, 2021
 - PROPOSED USE: WAREHOUSE
 - BUILDING INFORMATION:
 - 1,393,383 S.F. INDUSTRIAL BUILDING (1-STORY)
 - 7,440 S.F. TRAILER MAINTENANCE BUILDING (1-STORY)
 - 3,550 S.F. TRANSPORTATION BUILDING (1-STORY)
 - 1,137 S.F. GUARD SHACK (1-STORY)
 - PARKING:
 - OFFICE: 1/300 S.F. = 19,687 S.F./ 300 = 66 SPACES
 - TRAILER SERVICE BUILDING: 2 PER SERVICE BAY = 2 * 3 SERVICE BAYS = 6 SPACES
 - WAREHOUSE: 1/10,000 S.F. = 1,378,383 S.F./ 10,000 = 138 SPACES
 - TOTAL REQUIRED: 210 SPACES INCLUDING 7 HANDICAP SPACES
 - TOTAL PROVIDED: 655 SPACES INCLUDING 18 HANDICAP SPACES
 - LOADING:
 - 1/ 15,000 S.F. = 93 SPACES REQUIRED
 - 270 SPACES PROVIDED
 - TOPOGRAPHIC AND BOUNDARY INFORMATION PROVIDED BY TIMMONS GROUP AND FLOWN TOPO.
 - THIS PROJECT HAS AN APPROVED REZONING CASE ADOPTED THROUGH 0-11-19 (R), APPROVED ON AUGUST 10, 2009.
 - NOTES:
 - ALL NEW OR RELOCATED UTILITIES SHALL BE PLACED UNDERGROUND
 - AMENDMENT/DEVIATION FROM THE FINAL APPROVED SITE PLAN SHALL BE SUBMITTED TO THE PLANNING DEPARTMENT FOR SUPPLEMENTAL REVIEW AND APPROVAL

MISS UTILITY OF VIRGINIA

THE CONTRACTOR SHALL CALL "MISS UTILITY" 48 HOURS PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT THE ENGINEER IMMEDIATELY IF THE LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLAN. IF THERE APPEARS TO BE A CONFLICT, AND/OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON PLAN, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY UTILITY WITHIN THE EXISTING AND/OR RIGHT OF WAY REQUIRED BY THE DEVELOPMENT. CONTACT MISS UTILITY OF VIRGINIA: 1-800-552-7001 (TOLL FREE)

PUBLIC UTILITY QUANTITIES		
WATER		
12" CLASS 52 D.I. WATERLINE		74 L.F.
4" TYPE "K" HARD COPPER DOMESTIC W/L		13 L.F.
12"x12" TEE		1 EA.
12" 90° BEND		1 EA.
2" WATER METER		1 EA.
2" CORP STOP		1 EA.
12" X 4" REDUCER		1 EA.
PRIVATE UTILITY QUANTITIES		
WATER		
12" CLASS 52 D.I. FIRE LINE		6,800 L.F.
8" CLASS 52 D.I. FIRE LINE		3,360 L.F.
4" TYPE "K" HARD COPPER DOMESTIC W/L		700 L.F.
2" TYPE "K" HARD COPPER DOMESTIC W/L		83 L.F.
10" DOUBLE DETECTOR CHECK VALVE ASSEMBLY W/ FDC		1 EA.
12" GATE VALVE		17 EA.
8" GATE VALVE		10 EA.
12"x12" TEE		3 EA.
12"x8" TEE		10 EA.
12"x4" TEE		2 EA.
12"x2" TEE		1 EA.
12" 90° BEND		1 EA.
12"x45" BEND		4 EA.
4"x45" BEND		2 EA.
F.H. ASSEMBLY		7 EA.
SEWER		
6" CLASS 52 GRAVITY SEWER LINE		4,380 L.F.
8" PVC GRAVITY SEWER LINE		869 L.F.
48" MANHOLES		20 EA.
6" CLEANOUTS		9 EA.
PUBLIC UTILITIES NOTES		
1. IF A CONFLICT ARISES BETWEEN THESE PLANS AND THE APPLICABLE COUNTY STANDARDS, THE NEW KENT COUNTY UTILITY STANDARDS, LATEST EDITION, SHALL PREVAIL.		

REVISIONS

DATE	SHEET NUMBERS

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C0.0	COVER SHEET	C3.13	WATERLINE PROFILES
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C1.1	EXISTING CONDITIONS AND PHASE I E&S CONTROL	C3.16	WATERLINE PROFILES
C1.2	EXISTING CONDITIONS AND PHASE I E&S CONTROL	C3.17	WATERLINE PROFILES
C1.3	EXISTING CONDITIONS AND PHASE I E&S CONTROL	C3.18	WATERLINE PROFILES
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C7.7	PHASE II E&S CONTROL AND MINOR HYDROLOGY
C7.8	PHASE II E&S CONTROL AND MINOR HYDROLOGY
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C9.0	PROPOSED MAJOR HYDROLOGY
C10.0	WATER QUALITY ANALYSIS PLAN



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TIMMONS GROUP
4701 Owens Way, Suite 900 | Prince Georges, VA 23875
TEL 804-541-6600 FAX 804-458-1511 www.timmons.com

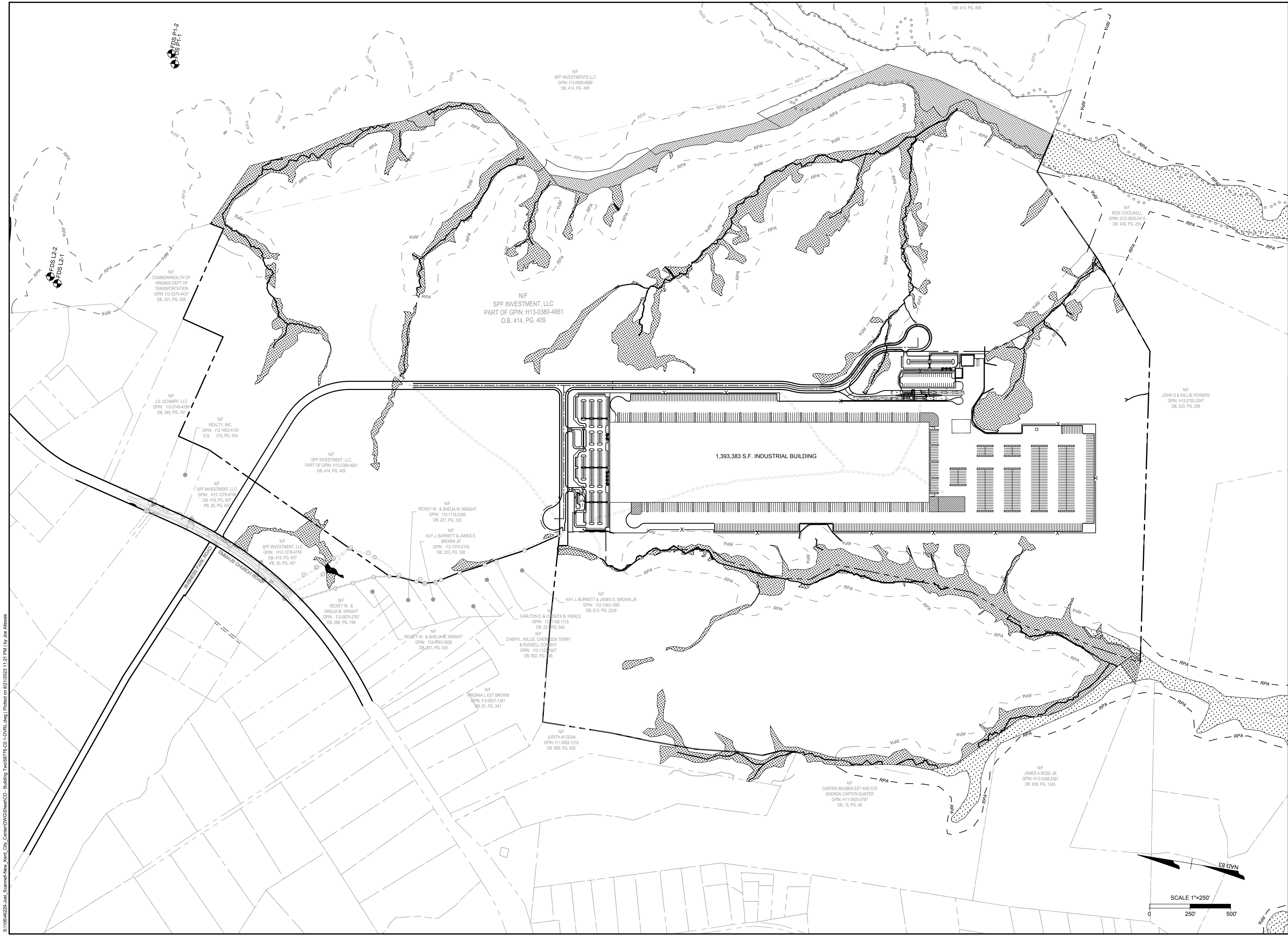
YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISION DESCRIPTION
8/21/2023	

TIMMONS GROUP
FORGE LOGISTICS BUILDING TWO
NEW KENT COUNTY - VIRGINIA
COVER SHEET

JOB NO.	58776
SHEET NO.	C0.0

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YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISION DESCRIPTION
8/21/2023 <td></td>	

DRAWN BY
J. ALLESSIE

DESIGNED BY
M. HETZLER

CHECKED BY
K. HALPAUS

SCALE
1" = 250'

TIMMONS GROUP

FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA

OVERALL PLAN

JOB NO.
58776

SHEET NO.
C0.1

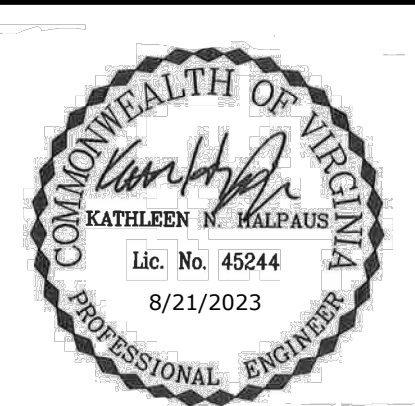
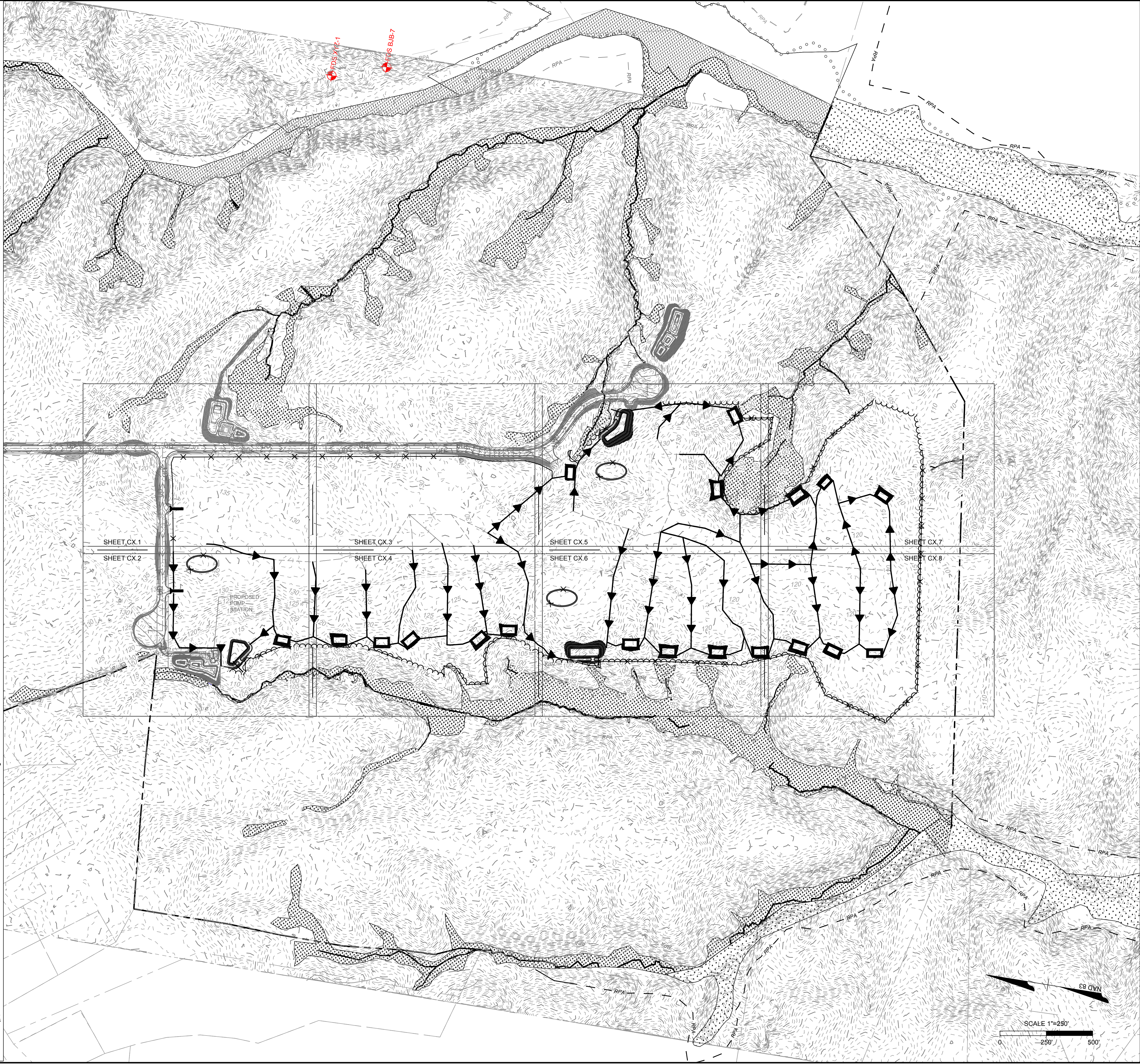
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S:\10646229-lobl_Scamell-New_Kent_City_Center\DWGS\sheet\CD - Building Two\58776-CD_1\DWG.dwg | Plotted on 8/21/2023 11:21 PM by Joe Alessie

9VAC25-840-40. Minimum standards.

A VESCP must be consistent with the following criteria, techniques and methods:

1. Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven days to denuded areas that may not be at final grade but will remain dormant for longer than 14 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.
2. During construction of the project, soil stock piles and borrow areas shall be stabilized or protected with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as borrow areas and soil intentionally transported from the project site.
3. A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized. Permanent vegetation shall not be considered established until a ground cover is achieved that is uniform, mature enough to survive and will inhibit erosion.
4. Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land-disturbing activity and shall be made functional before upslope land disturbance takes place.
5. Stabilization measures shall be applied to earthen structures such as dams, dikes and diversions immediately after installation.
6. Sediment traps and sediment basins shall be designed and constructed based upon the total drainage area to be served by the trap or basin.
 - a. The minimum storage capacity of a sediment trap shall be 134 cubic yards per acre of drainage area and the trap shall only control drainage areas less than three acres.
 - b. Surface runoff from disturbed areas that is comprised of flow from drainage areas greater than or equal to three acres shall be controlled by a sediment basin. The minimum storage capacity of a sediment basin shall be 134 cubic yards per acre of drainage area. The outfall system shall, at a minimum, maintain the structural integrity of the basin during a 25-year storm of 24-hour duration. Runoff coefficients used in runoff calculations shall correspond to a bare earth condition or those conditions expected to exist while the sediment basin is utilized.
7. Cut and fill slopes shall be designed and constructed in a manner that will minimize erosion. Slopes that are found to be eroding excessively within one year of permanent stabilization shall be provided with additional slope stabilizing measures until the problem is corrected.
8. Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume or slope drain structure.
9. Whenever water seeps from a slope face, adequate drainage or other protection shall be provided.
10. All storm sewer inlets that are made operable during construction shall be protected so that sediment-laden water cannot enter the conveyance system without first being filtered or otherwise treated to remove sediment.
11. Before newly constructed stormwater conveyance channels or pipes are made operational, adequate outlet protection and any required temporary or permanent channel lining shall be installed in both the conveyance channel and receiving channel.
12. When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction. Nonerodible material shall be used for the construction of causeways and cofferdams. Earthen fill may be used for these structures if armored by nonerodible cover materials.
13. When a live watercourse must be crossed by construction vehicles more than twice in any six-month period, a temporary vehicular stream crossing constructed of nonerodible material shall be provided.
14. All applicable federal, state and local requirements pertaining to working in or crossing live watercourses shall be met.
15. The bed and banks of a watercourse shall be stabilized immediately after work in the watercourse is completed.
16. Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:
 - a. No more than 500 linear feet of trench may be opened at one time.
 - b. Excavated material shall be placed on the uphill side of trenches.
 - c. Effluent from dewatering operations shall be filtered or passed through an approved sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing streams or off-site property.
 - d. Material used for backfilling trenches shall be properly compacted in order to minimize erosion and promote stabilization.
17. Where construction vehicle access routes intersect paved or public roads, provisions shall be made to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a paved or public road surface, the road surface shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by sweeping or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner. This provision shall apply to individual development lots as well as to larger land-disturbing activities.
18. All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed, unless otherwise authorized by the VESCP authority. Trapped sediment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation.
19. Properties and waterways downstream from development sites shall be protected from sediment deposition, erosion and damage due to increases in volume, velocity and peak flow rate of stormwater runoff for the stated frequency storm of 24-hour duration in accordance with the following standards and criteria. Stream restoration and relocation projects that incorporate natural channel design concepts are not man-made channels and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels:
 - a. Concentrated stormwater runoff leaving a development site shall be discharged directly into an adequate natural or man-made receiving channel, pipe or storm sewer system. For those sites where runoff is discharged into a pipe or pipe system, downstream stability analyses at the outfall of the pipe or pipe system shall be performed.
 - b. Adequacy of all channels and pipes shall be verified in the following manner:
 - (1) The applicant shall demonstrate that the total drainage area to the point of analysis within the channel is one hundred times greater than the contributing drainage area of the project in question; or
 - (2) (a) Natural channels shall be analyzed by the use of a two-year storm to verify that stormwater will not overtop channel banks nor cause erosion of channel bed or banks;
 - (b) All previously constructed man-made channels shall be analyzed by the use of a ten-year storm to verify that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not cause erosion of channel bed or banks; and
 - (c) Pipes and storm sewer systems shall be analyzed by the use of a ten-year storm to verify that stormwater will be contained within the pipe or system.
 - (3) If existing natural receiving channels or previously constructed man-made channels or pipes are not adequate, the applicant shall:
 - (1) Improve the channels to a condition where a ten-year storm will not overtop the banks and a two-year storm will not cause erosion to the channel, the bed, or the banks; or
 - (2) Improve the pipe or pipe system to a condition where the ten-year storm is contained within the appurtenances;
 - (4) Develop a site design that will not cause the pre-development peak runoff rate from a two-year storm to increase when runoff outfalls into a natural channel or will not cause the pre-development peak runoff rate from a ten-year storm to increase when runoff outfalls into a man-made channel; or
 - (5) Provide a combination of channel improvement, stormwater detention or other measures which is satisfactory to the VESCP authority to prevent downstream erosion.
 - d. The applicant shall provide evidence of permission to make the improvements.
 - e. All hydrologic analyses shall be based on the existing watershed characteristics and the ultimate development condition of the subject project.
 - f. If the applicant chooses an option that includes stormwater detention, he shall obtain approval from the VESCP of a plan for maintenance of the detention facilities. The plan shall set forth the maintenance requirements of the facility and the person responsible for performing the maintenance.
 - g. Outfall from a detention facility shall be discharged to a receiving channel, and energy dissipators shall be placed at the outfall of all detention facilities as necessary to provide a stabilized transition from the facility to the receiving channel.
 - h. All on-site channels must be verified to be adequate.
 - i. Increased volumes of sheet flows that may cause erosion or sedimentation on adjacent property shall be diverted to a stable outlet, adequate channel, pipe or pipe system, or to a detention facility.
 - j. In applying these stormwater management criteria, individual lots or parcels in a residential, commercial or industrial development shall not be considered to be separate development projects. Instead, the development, as a whole, shall be considered to be a single development project. Hydrologic parameters that reflect the ultimate development condition shall be used in all engineering calculations.
 - k. All measures used to protect properties and waterways shall be employed in a manner which minimizes impacts on the physical, chemical and biological integrity of rivers, streams and other waters of the state.
 1. Any plan approved prior to July 1, 2014, that provides for stormwater management that addresses any flow rate capacity and velocity requirements for natural or man-made channels shall satisfy the flow rate capacity and velocity requirements for natural or man-made channels if the practices are designed to (i) detain the water quality volume and to release it over 48 hours; (ii) detain and release over a 24-hour period the expected rainfall resulting from the one year, 24-hour storm; and (iii) reduce the allowable peak flow rate resulting from the 1-, 2-, and 10-year, 24-hour storms to a level that is less than or equal to the peak flow rate from the site assuming it was in a good forested condition, achieved through multiplication of the forested peak flow rate by a reduction factor that is equal to the runoff volume from the site when it was in a good forested condition divided by the runoff volume from the site in its proposed condition, and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels as defined in any regulations promulgated pursuant to § 62.1-44.15:54 or 62.1-44.15:65 of the Act.
 - m. For plans approved on and after July 1, 2014, the flow rate capacity and velocity requirements of § 62.1-44.15:52 A of the Act and this subsection shall be satisfied by compliance with water quantity requirements in the Stormwater Management Act (§ 62.1-44.15:24 et seq. of the Code of Virginia) and attendant regulations, unless such land-disturbing activities are in accordance with 9VAC25-870-48 of the Virginia Stormwater Management Program (VSMP) Regulations.
 - n. Compliance with the water quantity minimum standards set out in 9VAC25-870-66 of the Virginia Stormwater Management Program (VSMP) Regulations shall be deemed to satisfy the requirements of subdivision 19 of this subsection.



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 K. HALPAUS

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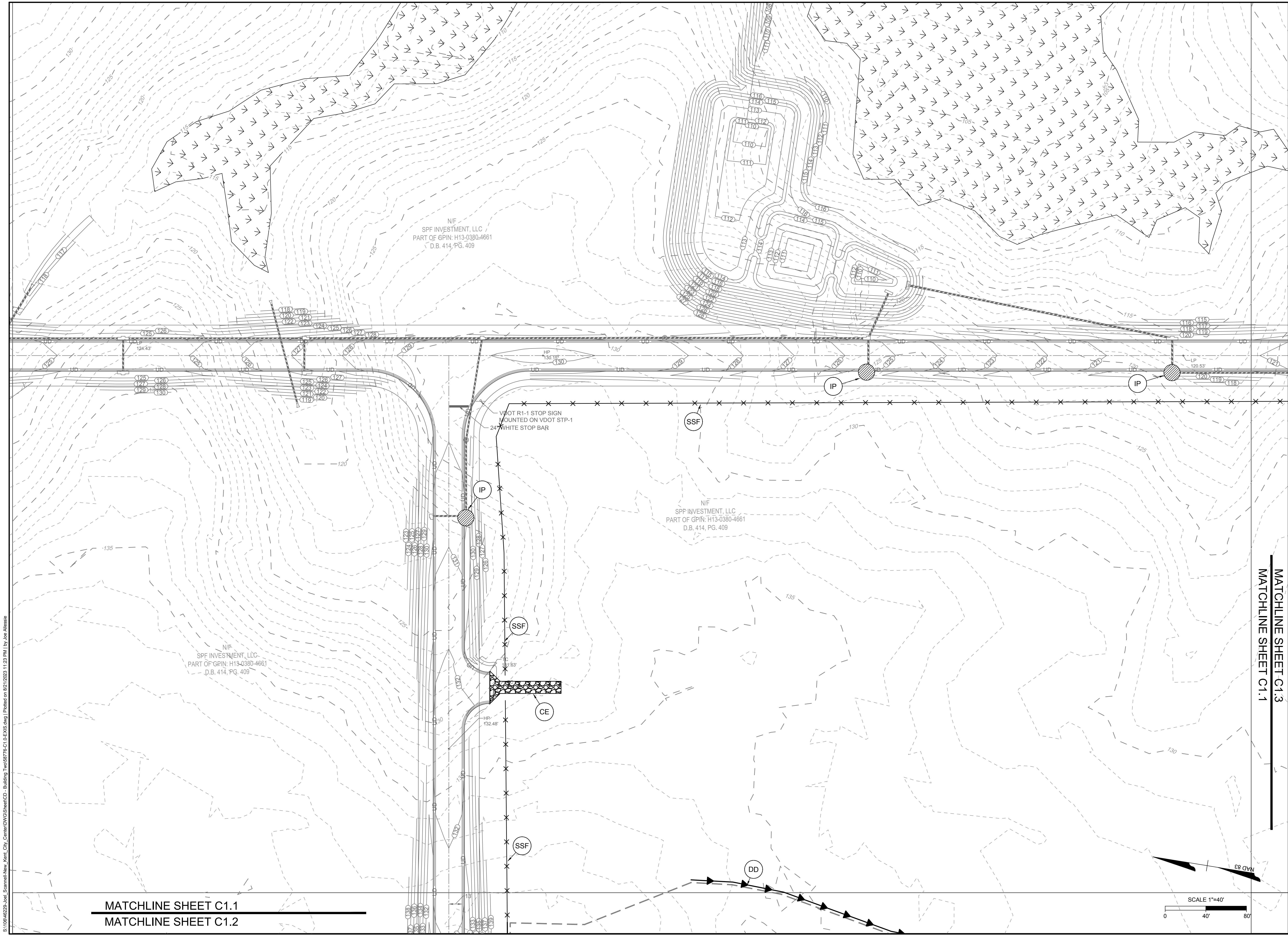
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EXISTING CONDITIONS AND PHASE I E&S CONTROL OVERALL

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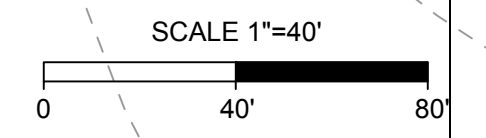
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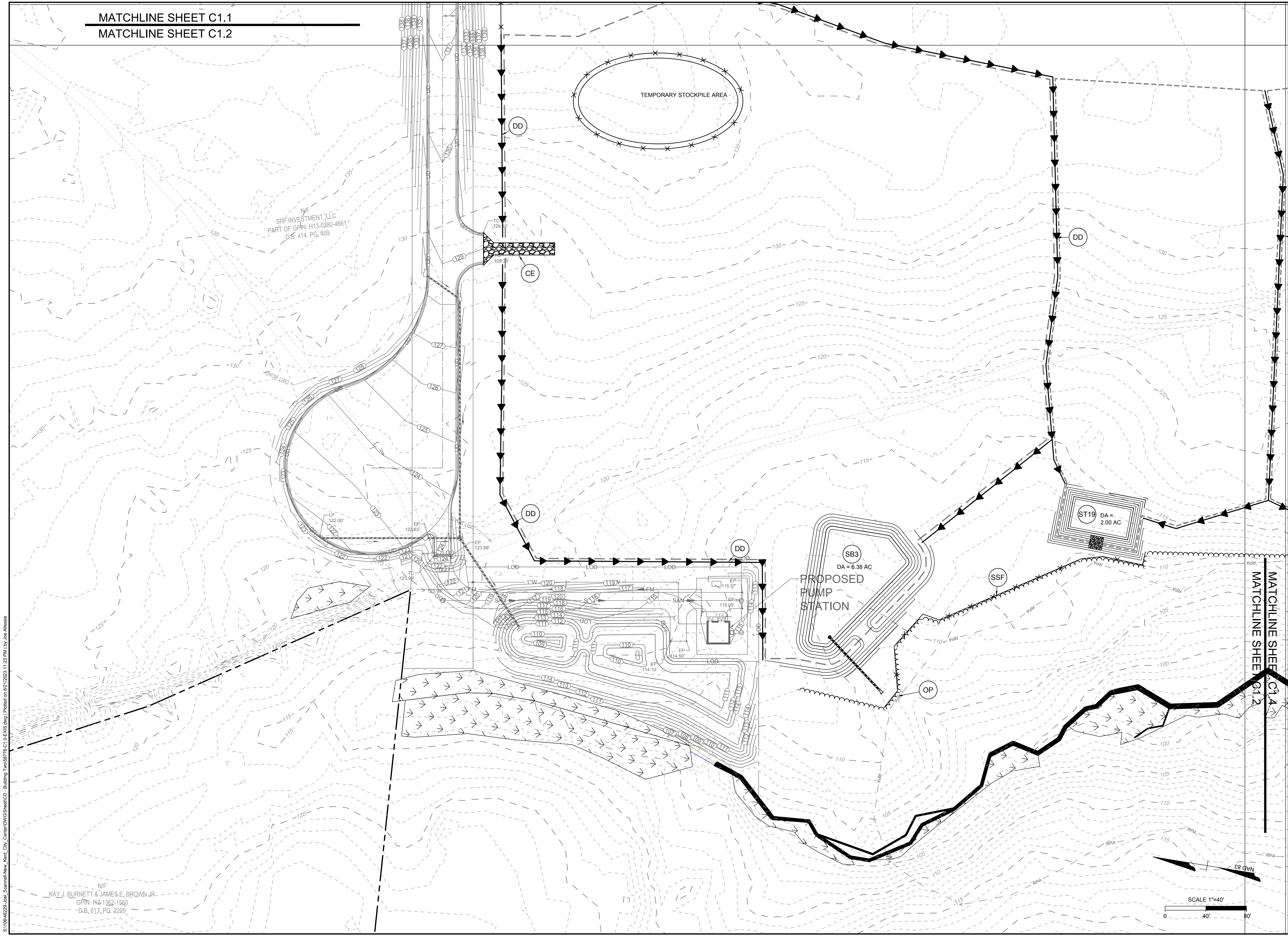
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R.L.MASTROBRE
CHECKED BY
R.K.LAELLESBINE
SCALE

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SPF INVESTMENT, LLC
PART OF GPN: H13-0280-4661
D.B. 414, PG. 409

N/F
KAY J. BURNETT & JAMES E. BROWN JR.
GPN: H42-1362-1560
D.B. 613, PG. 2229

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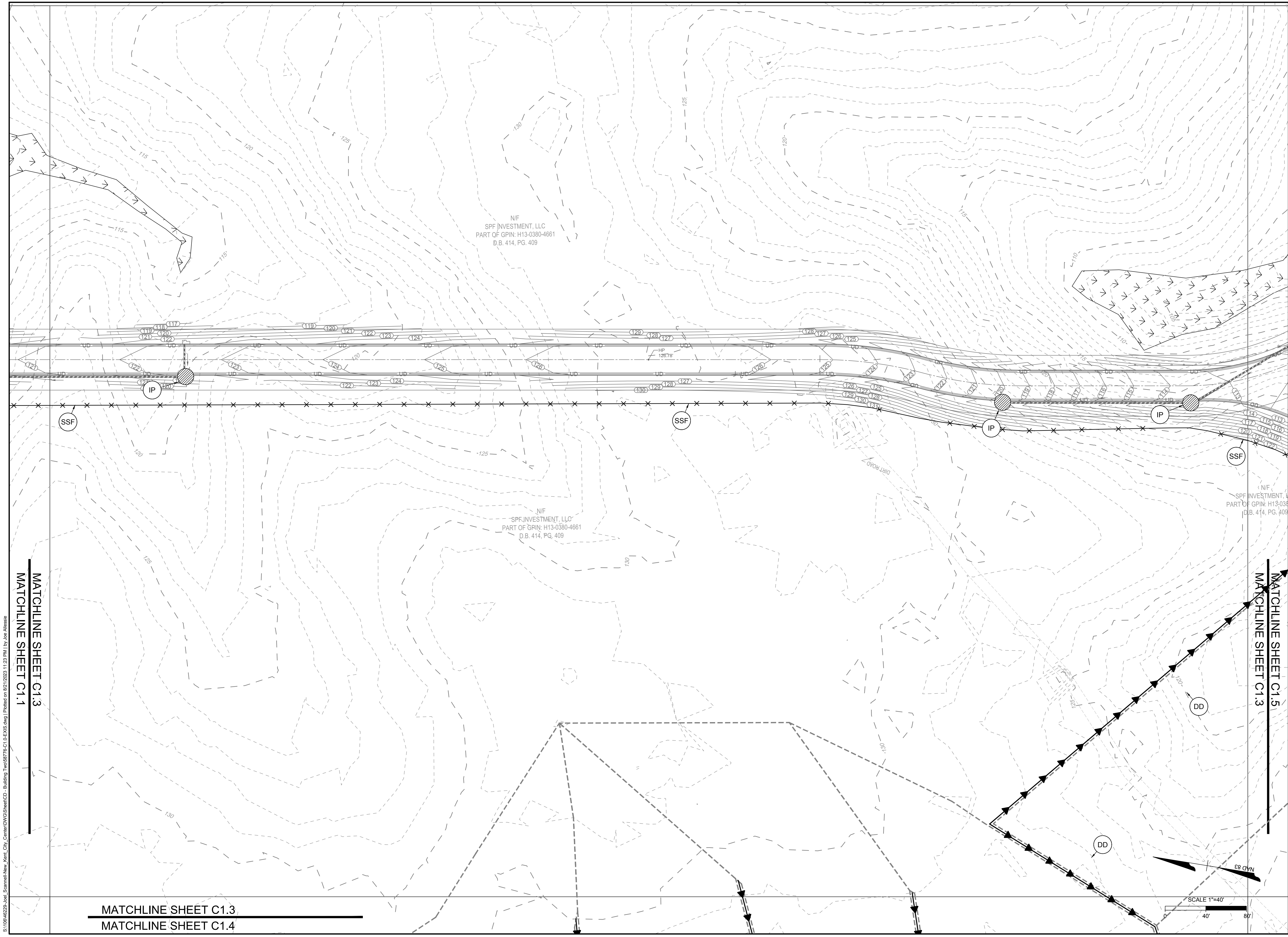
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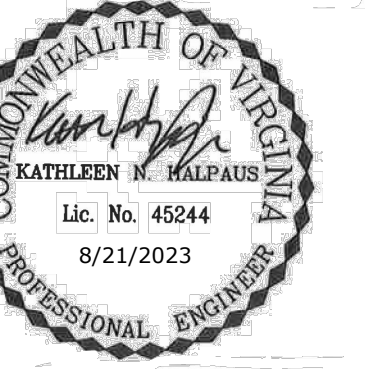
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RK.LASTORBE

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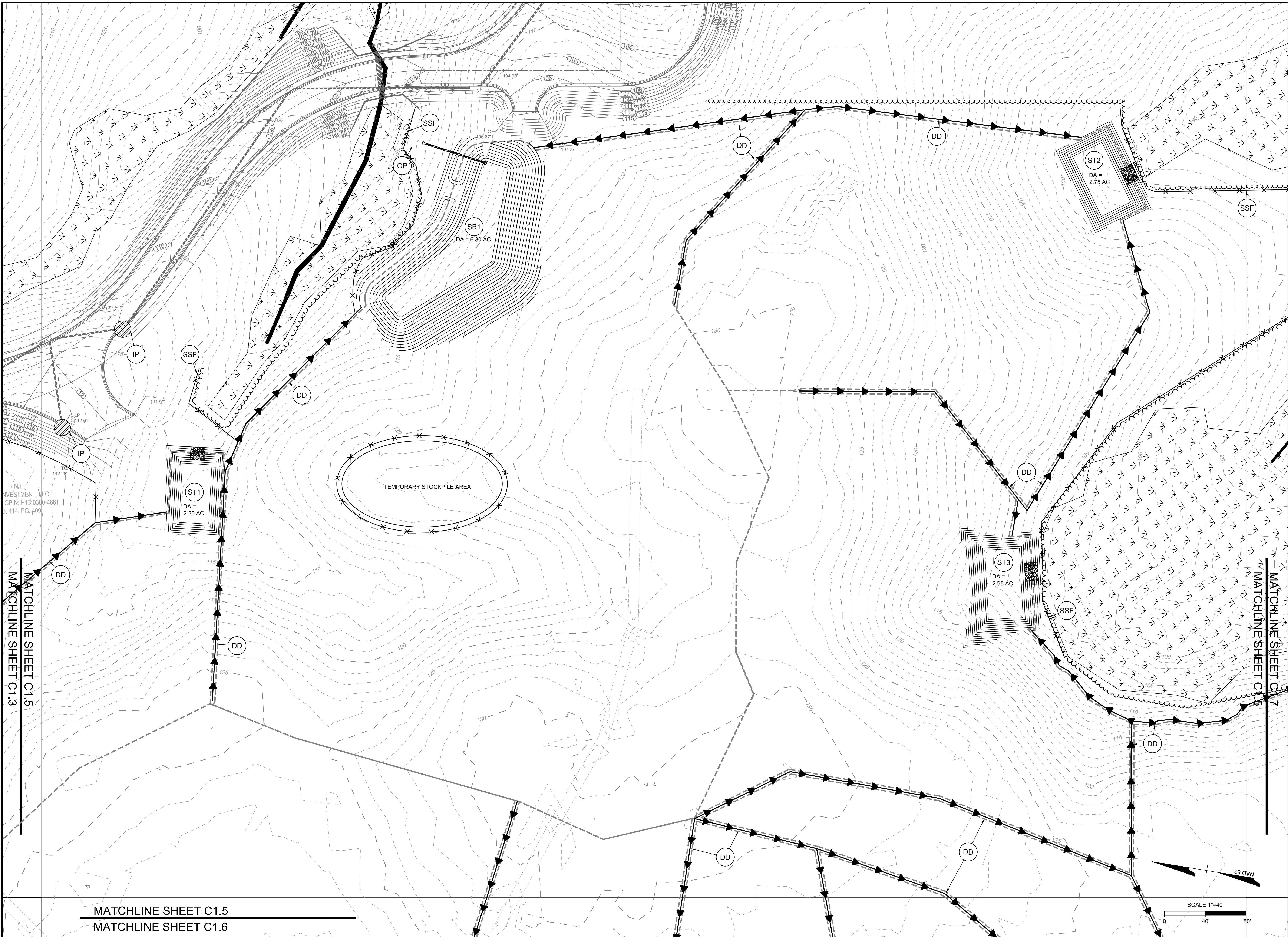
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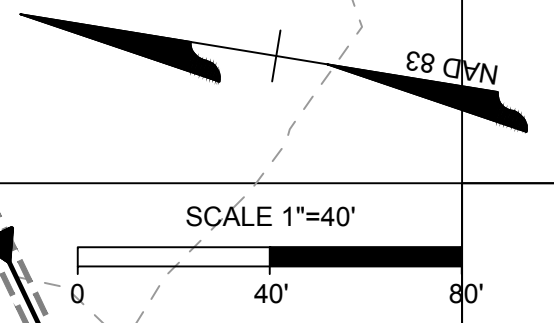
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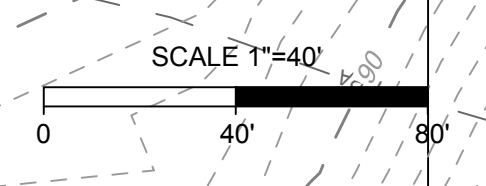
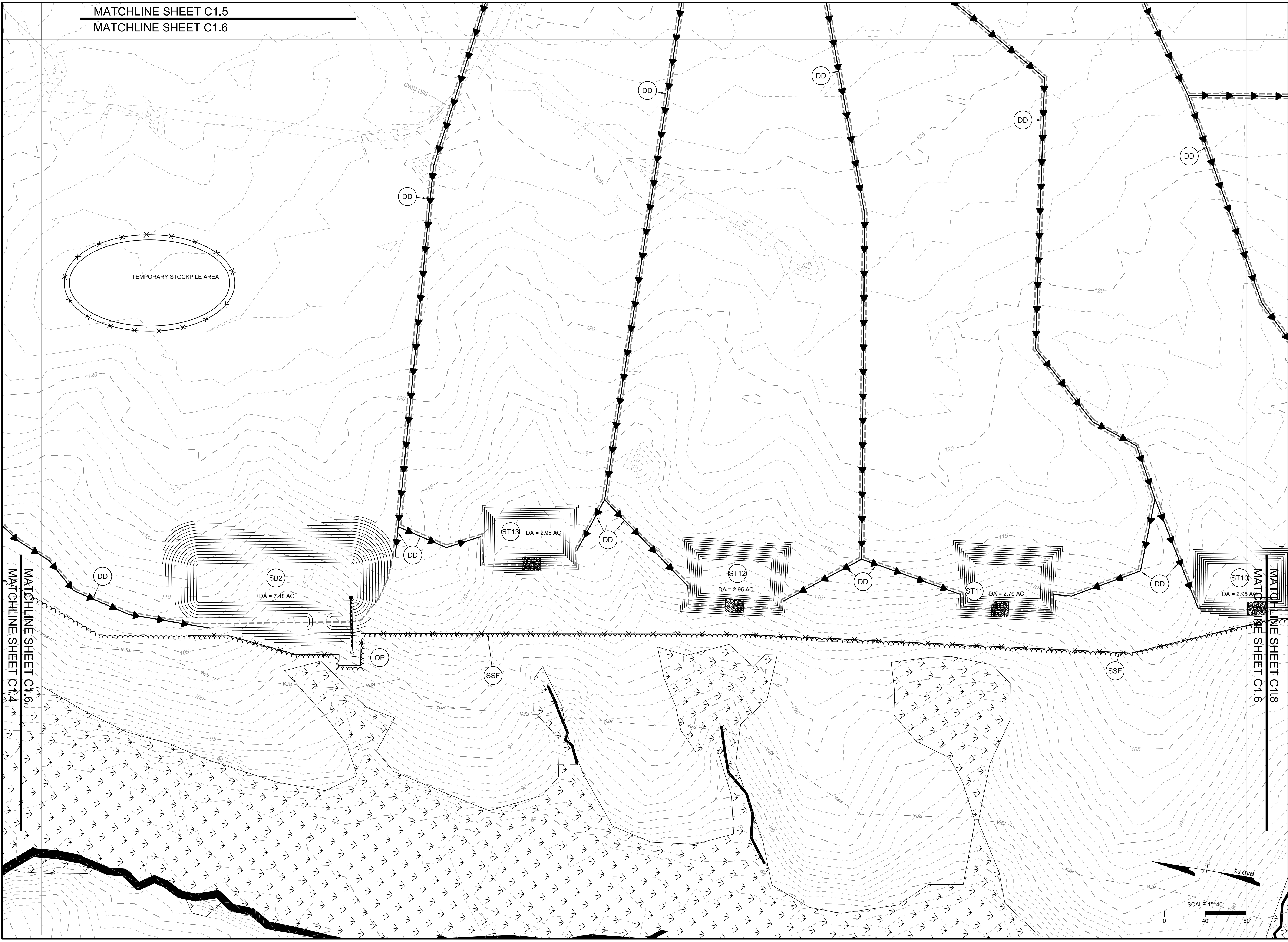
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 DESIGNED BY: R.M.LASTORBE
 CHECKED BY: R.K.LASTORBE
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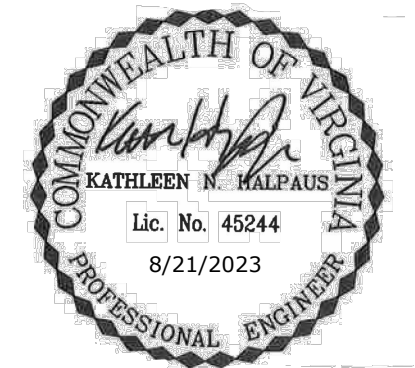


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DESIGNED BY
R.M. LAUSTBAE

CHECKED BY
K.L. LAUSTBAE

SCALE

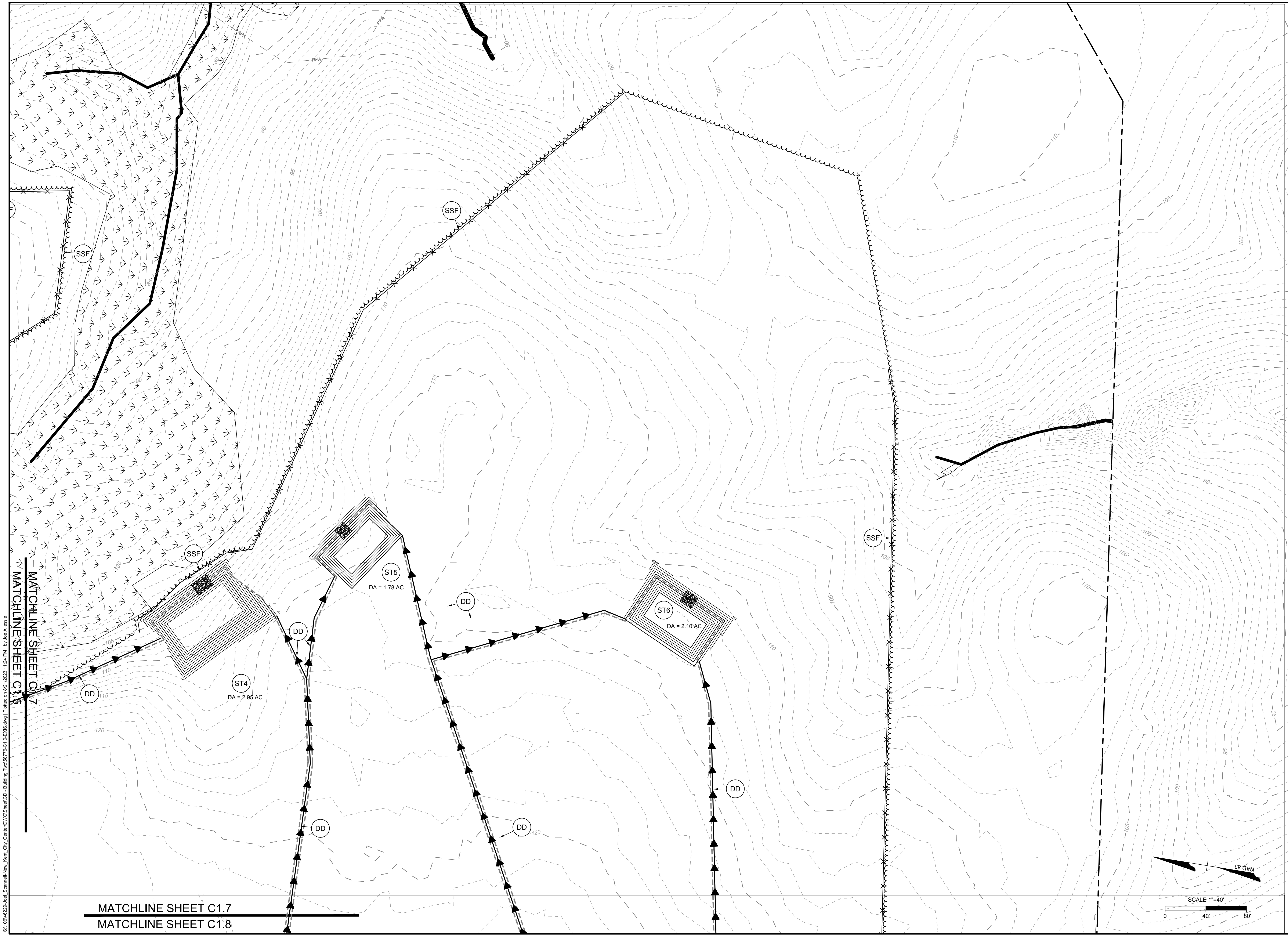
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EROSION CONTROL GENERAL NOTES

- CONTACT THE NEW KENT COUNTY ENVIRONMENTAL DEPARTMENT AT (804) 966-8580 PRIOR TO COMMENCING ANY LAND DISTURBANCE ACTIVITIES ON THE SITE. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE NEW KENT COUNTY ORDINANCE AND THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
- NOTIFY THE NEW KENT COUNTY ENVIRONMENTAL DEPARTMENT ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES EVERY FIVE BUSINESS DAYS AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE LEFT DORMANT FOR MORE THAN ONE YEAR.
- THE CONTRACTOR IS RESPONSIBLE FOR DAILY REMOVAL OF SEDIMENT THAT HAS BEEN TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOILS WHICH MAY PRESENT A HEALTH HAZARD, TRAFFIC SAFETY PROBLEM, OR HARM ANIMAL OR PLANT LIFE.

EROSION AND SEDIMENT CONTROL MEASURES:

THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL MEASURES NECESSARY TO PREVENT SOIL FROM ERODING OR BEING TRACKED ONTO ADJACENT PROPERTY, STREETS, DRAINAGE SYSTEMS, AND WATERWAYS. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. THE MINIMUM STANDARDS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE FROM NEW KENT COUNTY.

- 3.02 TEMPORARY STONE CONSTRUCTION ENTRANCE: A STONE PAD, LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE, TO REDUCE THE SOIL TRANSPORTED ONTO PUBLIC ROADS AND OTHER PAVED AREAS.
- 3.05 SILT FENCE: A TEMPORARY SEDIMENT BARRIER CONSTRUCTED OF POSTS, FILTER FABRIC AND, IN SOME CASES, A WIRE SUPPORT FENCE, PLACED ACROSS OR AT THE TOE OF A SLOPE OR IN A MINOR DRAINAGE WAY TO INTERCEPT AND DETAIN SEDIMENT AND DECREASE FLOW VELOCITIES FROM DRAINAGE AREAS OF LIMITED SIZE. APPLICABLE WHERE SHEET AND RILL EROSION OR SMALL CONCENTRATED FLOWS MAY BE A PROBLEM. MAXIMUM EFFECTIVE LIFE OF 6 MONTHS.
- 3.07 STORM DRAIN INLET PROTECTION: THE INSTALLATION OF VARIOUS KINDS OF SEDIMENT TRAPPING MEASURES AROUND DROP INLET STRUCTURES PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA; LIMITED TO DRAINAGE AREAS NOT EXCEEDING ONE ACRE, AND NOT INTENDED TO CONTROL LARGE, CONCENTRATED STORMWATER FLOWS.
- 3.09 TEMPORARY DIVERSION DIKE: A RIDGE OF COMPACTED SOIL CONSTRUCTED AT THE TOP OR BASE OF A SLOPING DISTURBED AREA WHICH DIVERTS OFF-SITE RUNOFF AWAY FROM UNPROTECTED SLOPES AND TO A STABILIZED OUTLET, OR TO DIVERT SEDIMENT-LADEN RUNOFF TO A SEDIMENT TRAPPING STRUCTURE. MAXIMUM EFFECTIVE LIFE IS 18 MONTHS.
- 3.13 TEMPORARY SEDIMENT TRAP: A TEMPORARY PONDING AREA FORMED BY CONSTRUCTING AN EARTHEN EMBANKMENT WITH A STONE OUTLET IN ORDER TO DETAIN SEDIMENT-LADEN RUNOFF FROM SMALL DISTURBED AREAS LONG ENOUGH TO ALLOW THE MAJORITY OF THE SEDIMENT TO SETTLE OUT.
- 3.14 TEMPORARY SEDIMENT BASIN: A TEMPORARY BARRIER OR DAM WITH A CONTROLLED STORMWATER RELEASE STRUCTURE WHICH IS FORMED BY CONSTRUCTING AN EMBANKMENT OF COMPACTED SOIL ACROSS A DRAINAGEWAY. IT IS USED TO DETAIN SEDIMENT-LADEN RUNOFF FROM DRAINAGE AREAS 3 ACRES OR GREATER FOR ENOUGH TIME TO ALLOW MOST OF THE SUSPENDED SOLIDS TO SETTLE OUT. IT CAN BE CONSTRUCTED ONLY WHERE THERE IS SUFFICIENT SPACE AND APPROPRIATE TOPOGRAPHY. MAXIMUM EFFECTIVE LIFE IS 18 MONTHS UNLESS DESIGNED AS A PERMANENT POND BY A QUALIFIED PROFESSIONAL.
- 3.31 TEMPORARY SEEDING: ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR PERIODS OF 14 DAYS TO ONE YEAR BY SEEDING WITH APPROPRIATE RAPIDLY-GROWING PLANTS.
- 3.32 PERMANENT SEEDING: ESTABLISHMENT OF PERENNIAL VEGETATIVE COVER BY PLANTING SEED ON ROUGH-GRADED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A YEAR OR MORE OR WHERE PERMANENT, LONG-LIVED VEGETATIVE COVER IS NEEDED ON FINE-GRADED AREAS.
- 3.36 SOIL STABILIZATION BLANKETS AND MATTING: THE INSTALLATION OF A PROTECTIVE BLANKET (TREATMENT 1) OR A SOIL STABILIZATION MAT (TREATMENT 2) ON A PREPARED PLANTING OF A STEEP SLOPE, CHANNEL OR SHORELINE.
- 3.39 DUST CONTROL: REDUCING SURFACE AND AIR MOVEMENT OF DUST DURING LAND DISTURBANCE, DEMOLITION OR CONSTRUCTION ACTIVITIES IN AREAS SUBJECT TO DUST PROBLEMS IN ORDER TO PREVENT SOIL LOSS AND REDUCE THE PRESENCE OF POTENTIALLY HARMFUL AIRBORNE SUBSTANCE.

EROSION CONTROL NARRATIVE

PROJECT DESCRIPTION: THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A 1,393,383 SQUARE FOOT BUILDING WITH ASSOCIATED UTILITES, PARKING, AND STORMWATER MANAGEMENT IMPROVEMENTS.

EXISTING SITE CONDITIONS: THE SITE IS COMPLETELY FORESTED. PORTIONS OF THE SITE SLOPE TO AN AREA OF WETLANDS TO THE SOUTHWEST AND OTHER PORTIONS SLOPE TO AN AREA OF WETLANDS TO THE SOUTHEAST. THE WETLANDS ON-SITE ARE TRIBUTARY OF SCHIMMOE CREEK.

ADJACENT AREAS: THE SITE IS SURROUNDED BY EMMAUS CHURCH ROAD TO THE WEST, FOREST TO THE SOUTH, FOREST TO THE EAST, JASPER ENGINES & TRANSMISSIONS ALONG WITH INTERIOR SPECIALTY CONSTRUCTION INC TO THE NORTH. NO ADJACENT AREAS WILL BE IMPACTED BY THE CONSTRUCTION.

OFFSITE AREAS: THERE ARE NO OFFSITE AREAS PROPOSED WITH THIS PROJECT. ANY OFFSITE BORROW OR DUMP SHALL BE PROPERLY PERMITTED PRIOR TO USE.

SOILS: ACCORDING TO THE MOST RECENT DATA AVAILABLE FOR NEW KENT COUNTY FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE, THERE ARE THREE (3) SOIL TYPES REPRESENTED ONSITE:

MAP UNIT SYMBOL "6B" - CAROLINE LOAM, 2 TO 6 PERCENT SLOPES
 MAP UNIT SYMBOL "7B" - CAROLINE-EMPORIA COMPLEX, 2 TO 6 PERCENT SLOPES
 MAP UNIT SYMBOL "7C" - CAROLINE-EMPORIA COMPLEX, 6 TO 10 PERCENT SLOPES
 MAP UNIT SYMBOL "16A" - JOHNSTON MUCKY LOAM, 0 TO 2 PERCENT SLOPES
 MAP UNIT SYMBOL "28D" - NEVARC-REMLIK COMPLEX, 6 TO 15 PERCENT SLOPES
 MAP UNIT SYMBOL "28E" - NEVARC-REMLIK COMPLEX, 15 TO 25 PERCENT SLOPES
 MAP UNIT SYMBOL "34B" - SLAGLE-EMPORIA, 2 TO 6 PERCENT SLOPES

CRITICAL AREAS: WETLANDS AND RPA ARE PRESENT ON THE SITE. NO RPA IMPACTS ARE PROPOSED WITH THIS DEVELOPMENT. WETLAND IMPACTS SHALL BE PROPERLY PERMITTED PRIOR TO CONSTRUCTION IN THE WETLANDS AREA.

EROSION AND SEDIMENT CONTROL MEASURES: TEMPORARY CONSTRUCTION ENTRANCE, SILT FENCE, SUPER SILT FENCE, INLET PROTECTION, SEDIMENT BASINS, SEDIMENT TRAPS AND OUTLET PROTECTION WILL SERVE AS THE PRIMARY EROSION CONTROL MEASURES. WHERE THERE HAS BEEN MUD/SOIL/SEDIMENT TRANSPORTED BY CONSTRUCTION TRAFFIC ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. TEMPORARY AND PERMANENT SEEDING WILL ALSO BE USED AS NEEDED. SEEDING SHALL BE DONE IN ACCORDANCE WITH TABLES ON THIS SHEET.

PERMANENT STABILIZATION: DURING CONSTRUCTION, SOIL STOCK PILE SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF THE SOIL STOCKPILE ON SITE. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE LEFT DORMANT FOR MORE THAN ONE YEAR. OUTLET PROTECTION SHALL BE INSTALLED PER PLAN.

STORMWATER RUNOFF: STORMWATER RUNOFF WILL BE MANAGED THROUGH THE USE OF UNDERGROUND STORM SEWER CONVEYANCE SYSTEMS DRAINING TO THE PROPOSED WET PONDS. THE WET PONDS HAVE BEEN DESIGNED TO MEET VIRGINIA RUNOFF REDUCTION METHOD. THE BASINS WILL HELP TO CONTROL STORMWATER RUNOFF FROM THE SITE SO THAT THERE WILL BE NO INCREASED RISKS OF FLOODING OR EROSION.

MAINTENANCE: BOTH TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH STATE AND LOCAL STANDARDS.

CALCULATIONS: ALL CALCULATIONS HAVE BEEN SUBMITTED TO COUNTY AND STATE OFFICIALS FOR REVIEW.

EROSION CONTROL SEQUENCE OF CONSTRUCTION

- NOTIFY THE NEW KENT COUNTY ENVIRONMENTAL DEPARTMENT AT (804) 966-8580 FOR A PRE-CONSTRUCTION MEETING AND ON-SITE VISIT ONE WEEK PRIOR TO BEGINNING CONSTRUCTION.
- INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON PLAN.
- BEGIN CLEARING OPERATIONS.
- INSTALL SILT FENCE AND DIVERSIONS. GRADE THE SEDIMENT TRAPS & BASINS AS SHOWN ON PLAN.
- ADD TEMPORARY AND PERMANENT SEEDING AS NEEDED.
- BEGIN ROUGH GRADING OPERATIONS AND STORM SEWER AND UTILITY INSTALLATION.
- FINE GRADE SITE, ADD PAVEMENT AND APPLY TEMPORARY STABILIZATION IF REQUIRED PER STATE STANDARDS. STABILIZE THE SITE WITH VEGETATION AND STRAW MULCH ACCORDING TO STATE REGULATIONS.
- APPLY PERMANENT STABILIZATION ON ANY REMAINING BARE SOIL. ONCE ALL UPSTREAM AREAS ARE STABILIZED, CONVERT SEDIMENT BASINS TO PERMANENT BASINS. APPROVAL BY THE ENVIRONMENTAL DEPARTMENT IS REQUIRED PRIOR TO ANY CONVERSION OF THE SEDIMENT BASIN.
- CONTINUING MAINTENANCE PRACTICES SHALL BE PERFORMED TO ENSURE PROTECTION OF DOWNSTREAM PROPERTIES.
- NO EROSION CONTROL DEVICE SHALL BE REMOVED UNTIL AN ADEQUATE STAND OF GRASS HAS BEEN OBTAINED. EROSION CONTROL MEASURES SHALL BE REMOVED IN ACCORDANCE WITH VIRGINIA REGULATION 9VAC25-840-10 MS-18. APPROVAL BY THE ENVIRONMENTAL DEPARTMENT IS REQUIRED PRIOR TO REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.

NOTE: ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN ARE TO BE CONSTRUCTED, MAINTAINED, AND REMOVED IN ACCORDANCE WITH THE CURRENT EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATION 9VAC25-840.

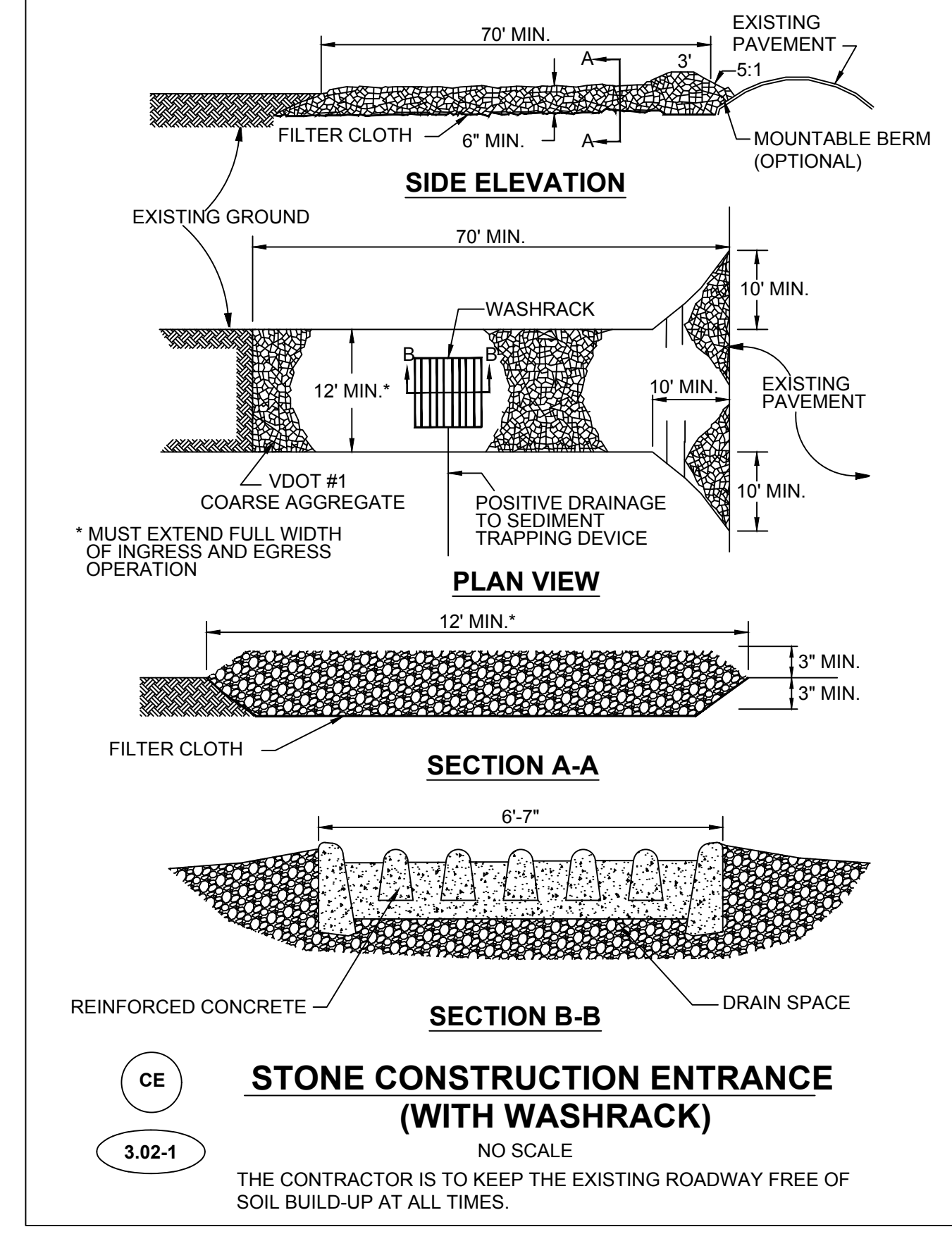
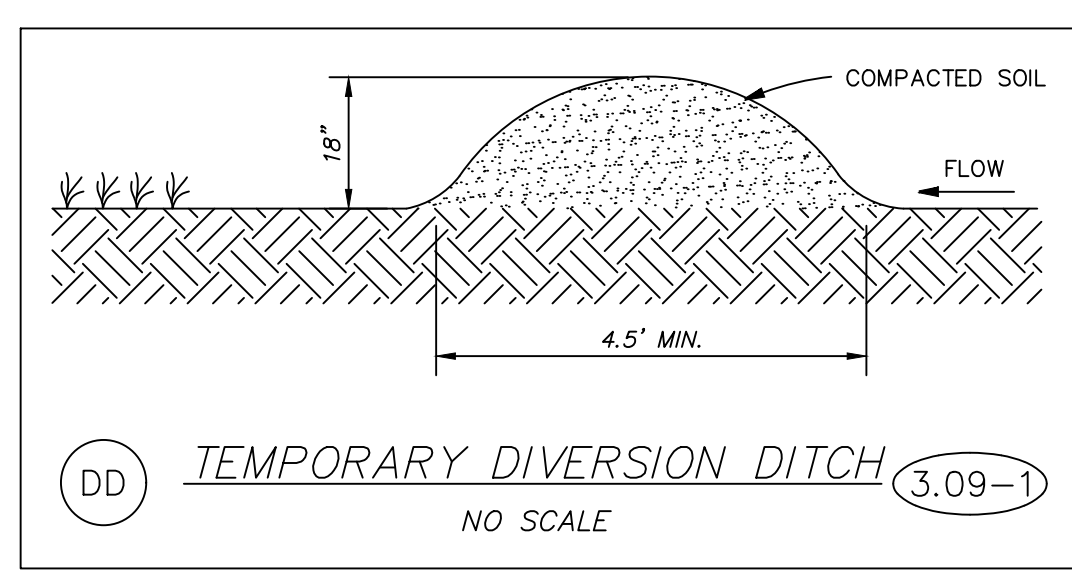
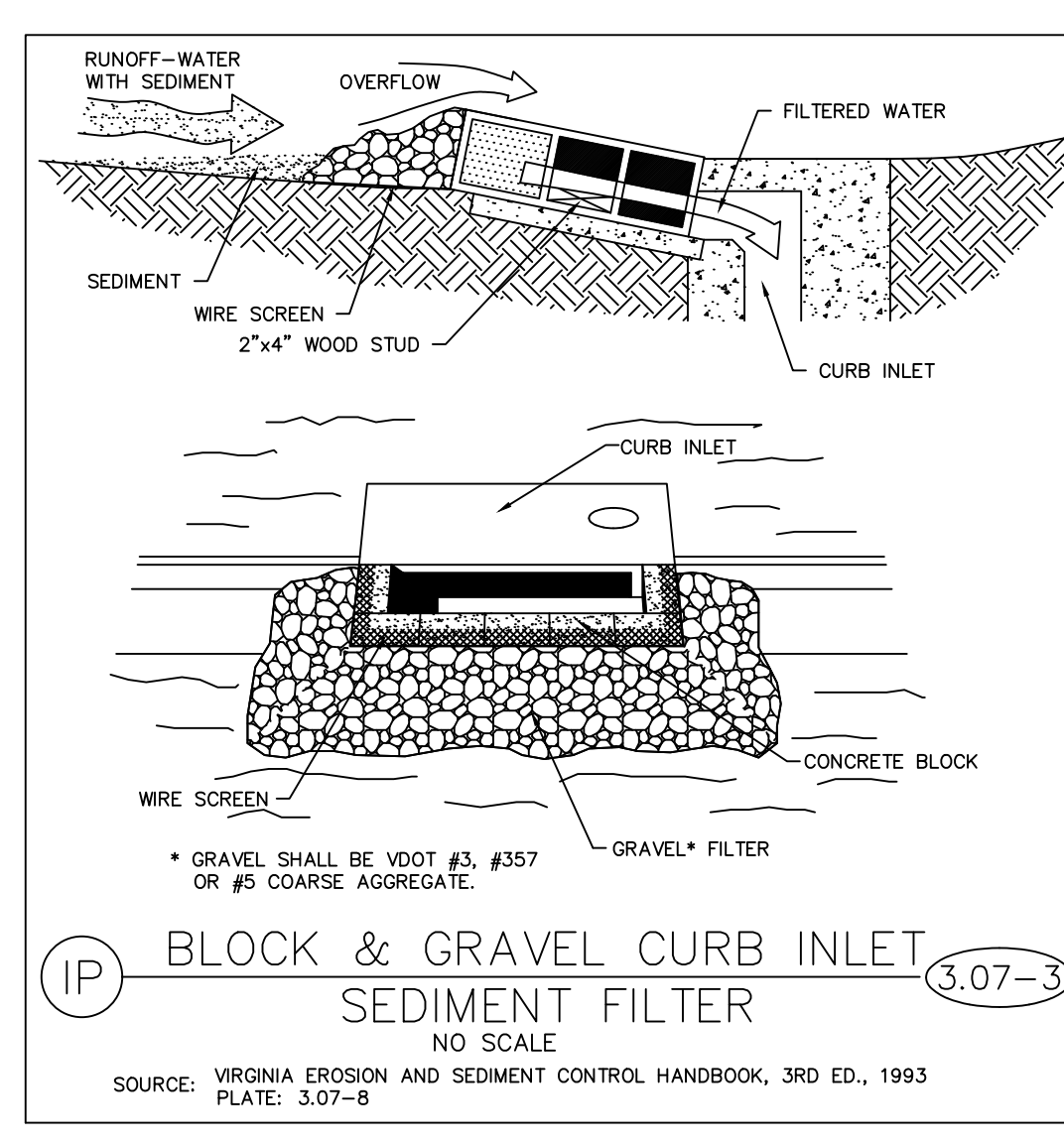
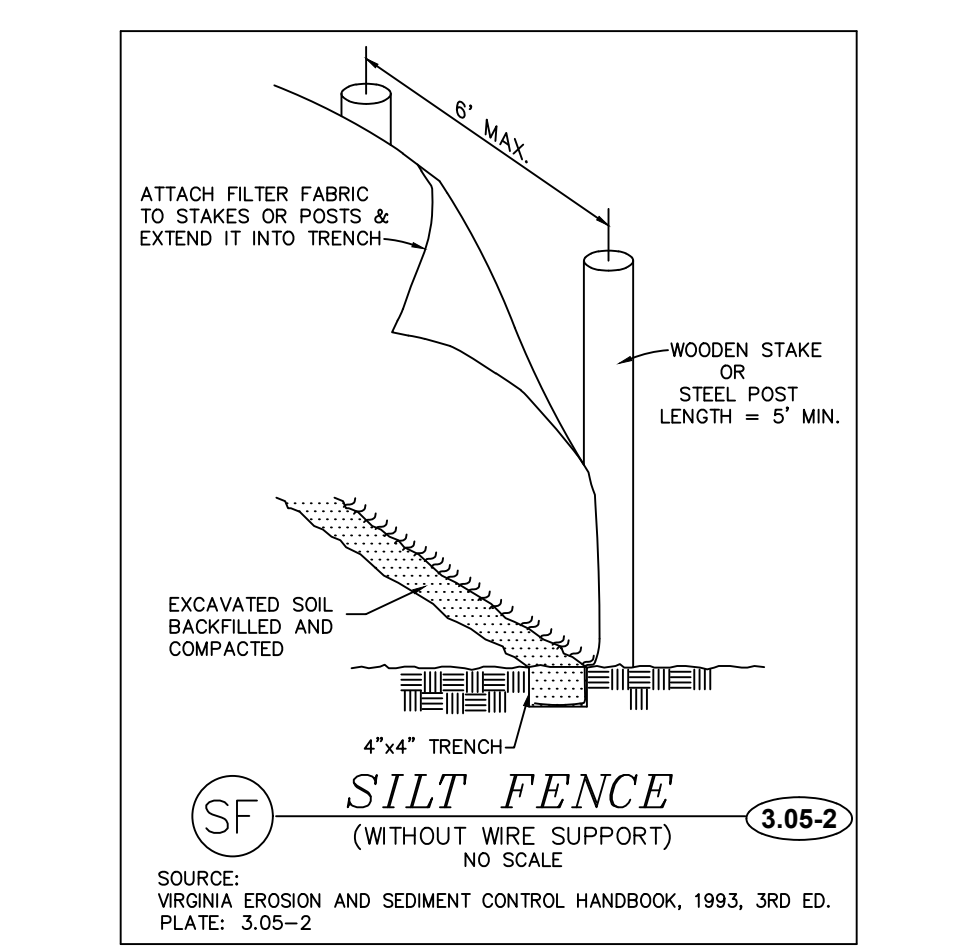
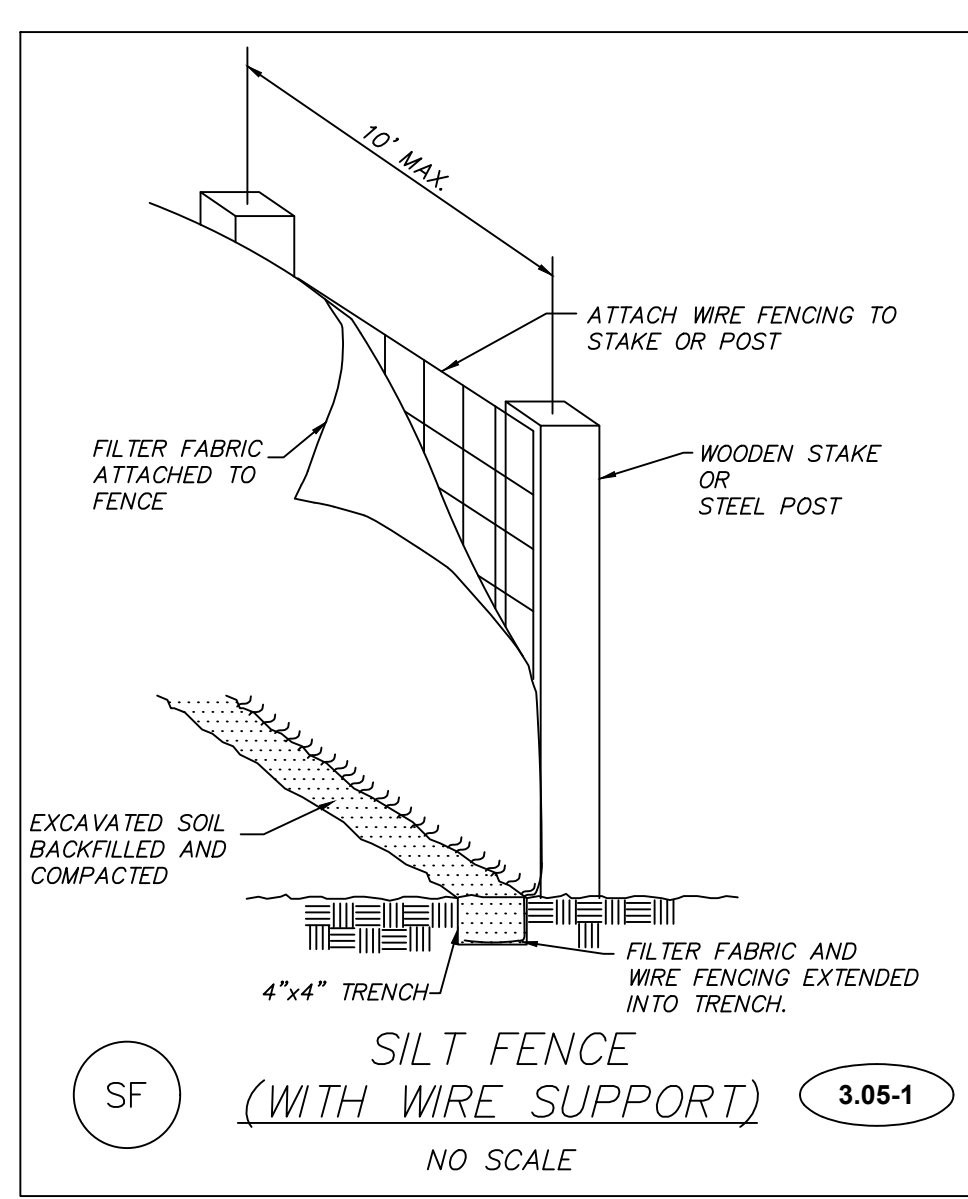


TABLE 3.32-D SITE SPECIFIC SEEDING MIXTURES FOR COASTAL PLAIN AREA

SITE CONDITIONS	SEEDING MIXTURES	RATES
		PER ACRE
HIGH MAINTENANCE LAWNS	-TURF-TYPE TALL FESCUE OR KENTUCKY 31	200-250 LBS.
	-HYBRID BERMU DAGGRASS (SEED)**	40 LBS. (UNHULLED)
MINIMUM CARE LAWN	-HYBRID BERMU DAGGRASS (BY OTHER VEGETATIVE ESTABLISHMENT METHOD, SEE STD. & SPEC. 3.34)	30 LBS. (HULLED)
	-KENTUCKY 31 OR TURF-TYPE TALL FESCUE	175-200 LBS.
GENERAL SLOPE (3:1 OR LESS)	-COMMON BERMU DAGGRASS**	75 LBS.
	-KENTUCKY 31 FESCUE	128 LBS.
	-RED TOP GRASS	20 LBS.
LOW-MAINTENANCE SLOPE (STEEPER THAN 3:1)	-SEASONAL NURSE CROP*	150 LBS.
	-KENTUCKY 31 TALL FESCUE	93-108 LBS.
	-COMMON BERMU DAGGRASS**	0-15 LBS.
SLOPE (STEEPER THAN 3:1)	-RED TOP GRASS	2 LBS.
	-SEASONAL NURSE CROP*	20 LBS.
	-SERICEA LESPEDEZA**	20 LBS.

TABLE 3.31-B (Revised June 2003)
TEMPORARY SEEDING SPECIFICATIONS QUICK REFERENCE FOR ALL REGIONS

APPLICATION DATES	SEED SPECIES	APPLICATION RATES
Sept 1 - Feb 15	50/50 Mix of Annual Ryegrass (olum multi-florum) & Coastal (Winter) Rye (Secale cereale)	50 - 100 (lb/acre)
Feb 15 - Apr 30	Annual Ryegrass (olum multi-florum)	60 - 100 (lb/acre)
May 1 - Aug 31	German Millet	50 (lb/acre)

FERTILIZER & LIME

- Apply 10-10-10 fertilizer at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 50 lbs. / 1,000 sq. ft.)

NOTE:
 1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
 2 - Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.
 3 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at <http://www.dnr.state.va.us/watersheds/tenn/03a>

TABLE 3.32-E (Revised June 2003)
PERMANENT SEEDING SPECIFICATIONS FOR COASTAL PLAIN AREA

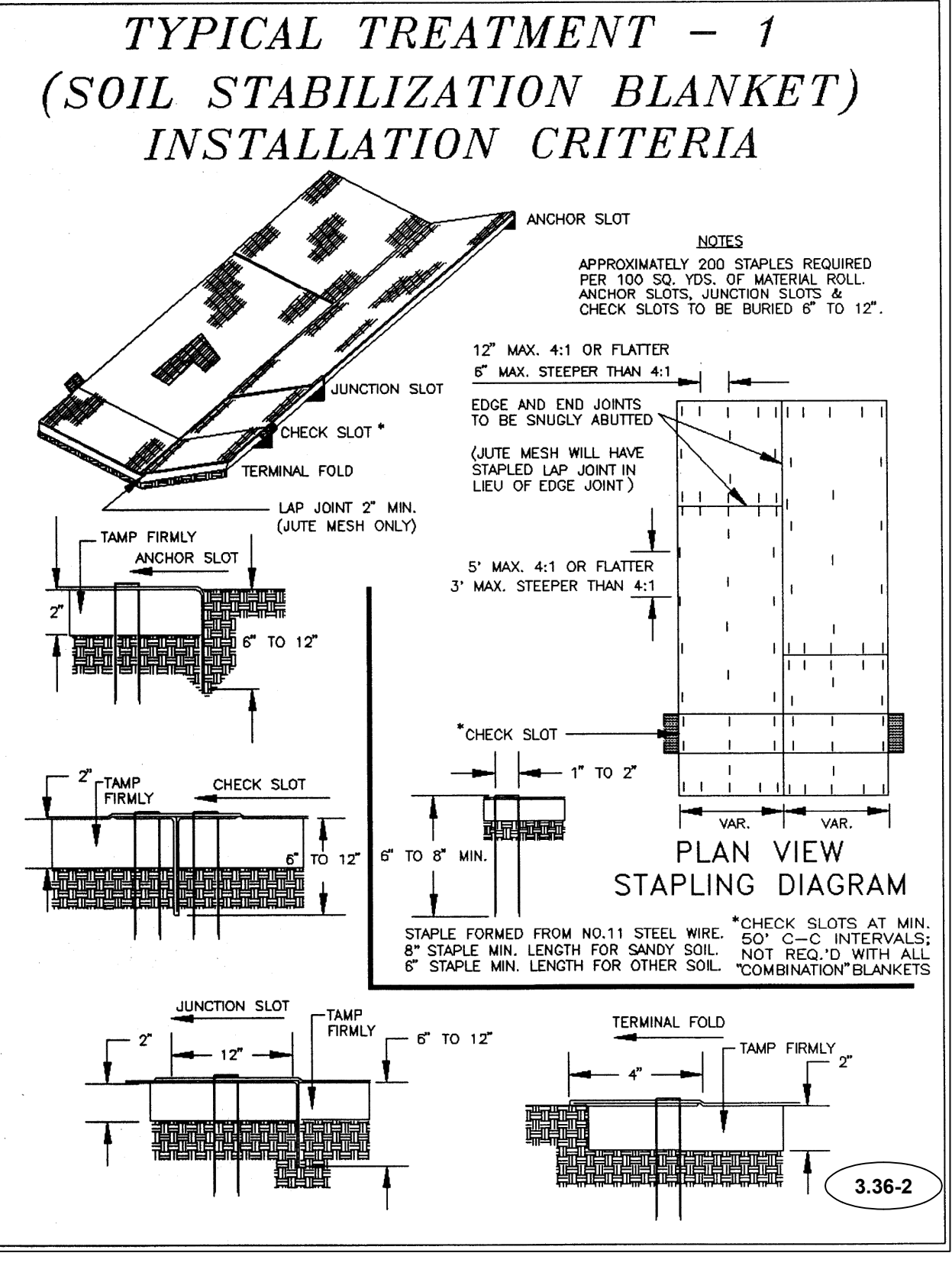
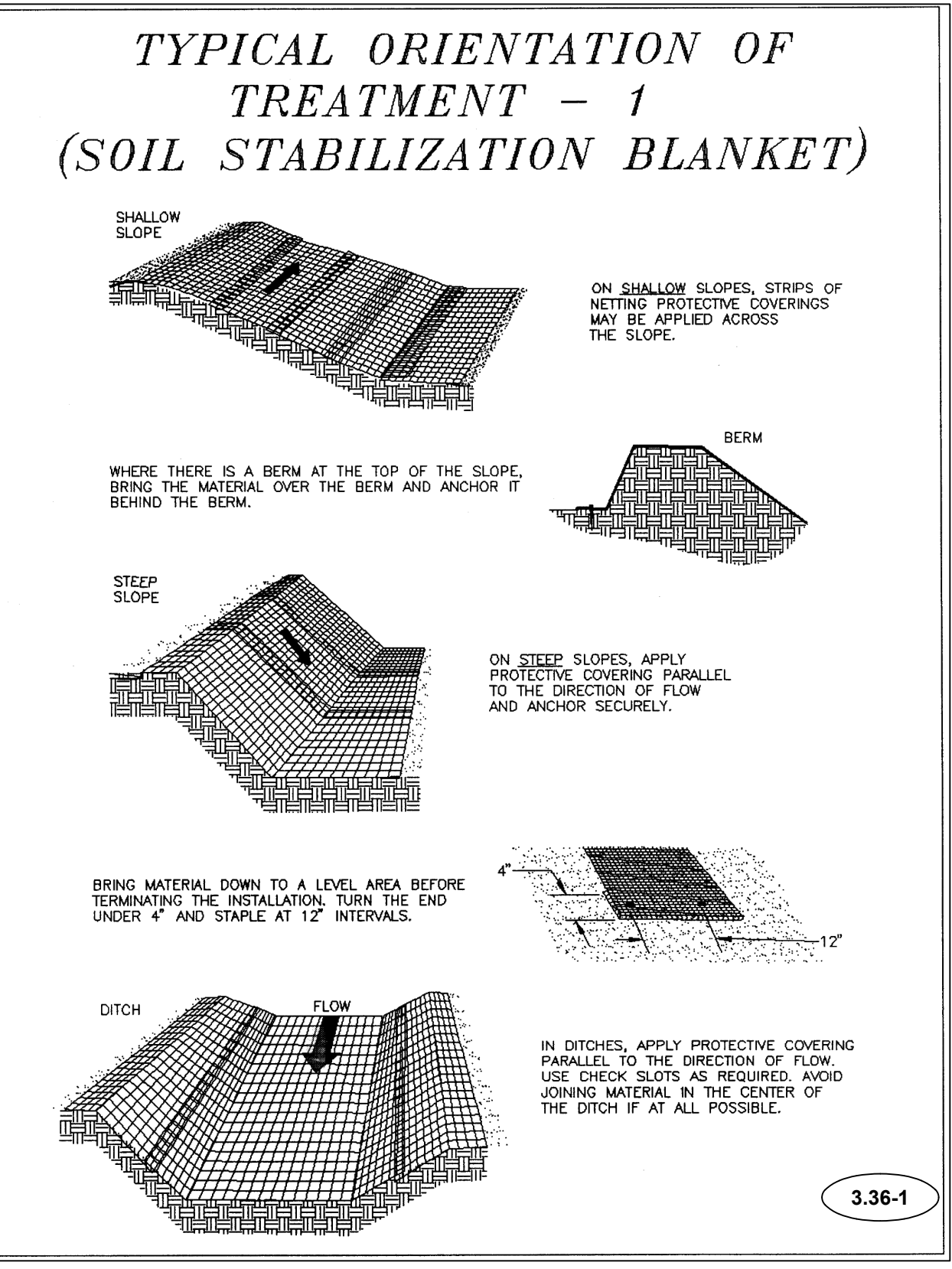
LAND USE	SEED	
	SPECIES	APPLICATION RATES
Minimum Care Lawn (Common or Residential)	Tall Fescue* or Bermudagrass*	175 - 200 lbs.
High-Maintenance Lawn	Tall Fescue* or Bermudagrass* (seed) or Bermudagrass* (by other vegetative establishment method, see Std. & Spec. 3.34)	200-250 lbs. 40 lbs. (unhulled) 30 lbs. (hulled)
General Slope (3:1 or less)	Tall Fescue* Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop*	128 lbs. 2 lbs. 2 lbs. TOTAL: 130 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue* Bermudagrass* Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop* (Species dependent)	93-108 lbs. 0-15 lbs. 2 lbs. 20 lbs. TOTAL: 120 lbs.

1 - When selecting varieties of turfgrasses, use the Virginia Crop Improvement Association (VCA) recommended turfgrass variety list. Quality seed will be a label indicating that they are approved by VCA. A current turfgrass variety list is available at the local County Extension office or through VCA at 804-746-4884 or at <http://www.vca.org>
 2 - Use seasonal nurse crop in accordance with seeding dates as stated below:
 February, March - April - Annual Rye
 May - August - Fescue Millet
 September, October - November 15th - Annual Rye
 November 16th - January - Winter Rye
 3 - May through October, use hybrid seed. All other seeding periods, use unhybrid seed. If Hybrid Longgrass is used, include in any slope or low maintenance mixture during winter seeding periods, increase to 30 - 40 lbs/acre.

FERTILIZER & LIME

- Apply 10-20-10 fertilizer at a rate of 500 lbs. / acre (or 12 lbs. / 1,000 sq. ft.)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 50 lbs. / 1,000 sq. ft.)

NOTE:
 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site
 - Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.
 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at <http://www.dnr.state.va.us/watersheds/tenn/03a>



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YOUR VISION ACHIEVED THROUGH OURS.

DATE: 8/21/2023

DRAWN BY: J. ALLESSIE

DESIGNED BY: M. HETZLER

CHECKED BY: K. HALPATIS

SCALE: NONE

TIMMONS GROUP

FORGE LOGISTICS BUILDING TWO

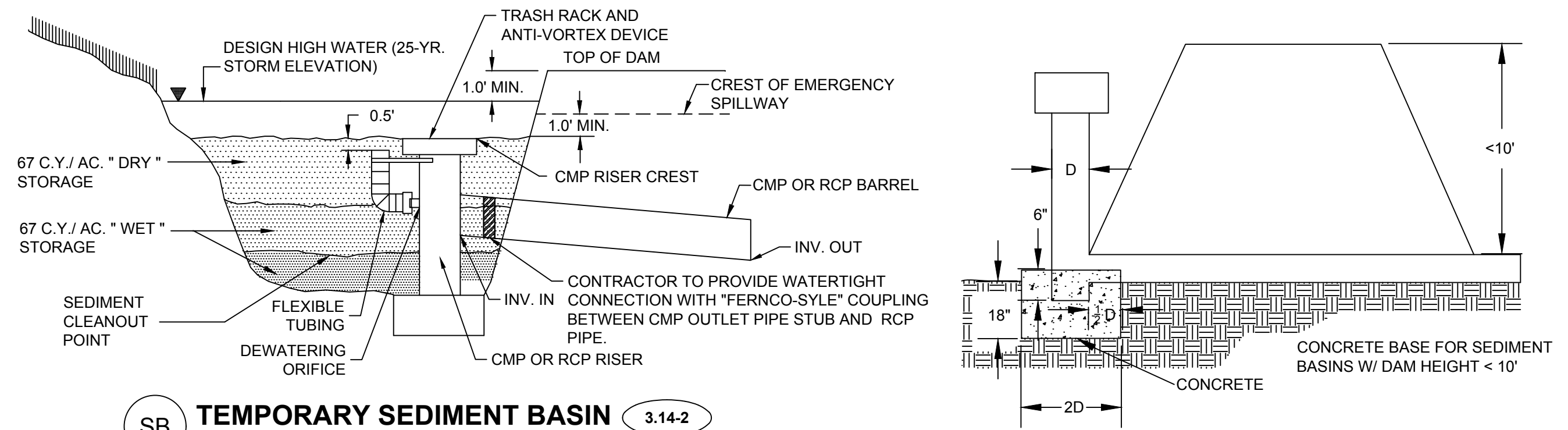
EROSION CONTROL NOTES AND DETAILS

NEW KENT COUNTY - VIRGINIA

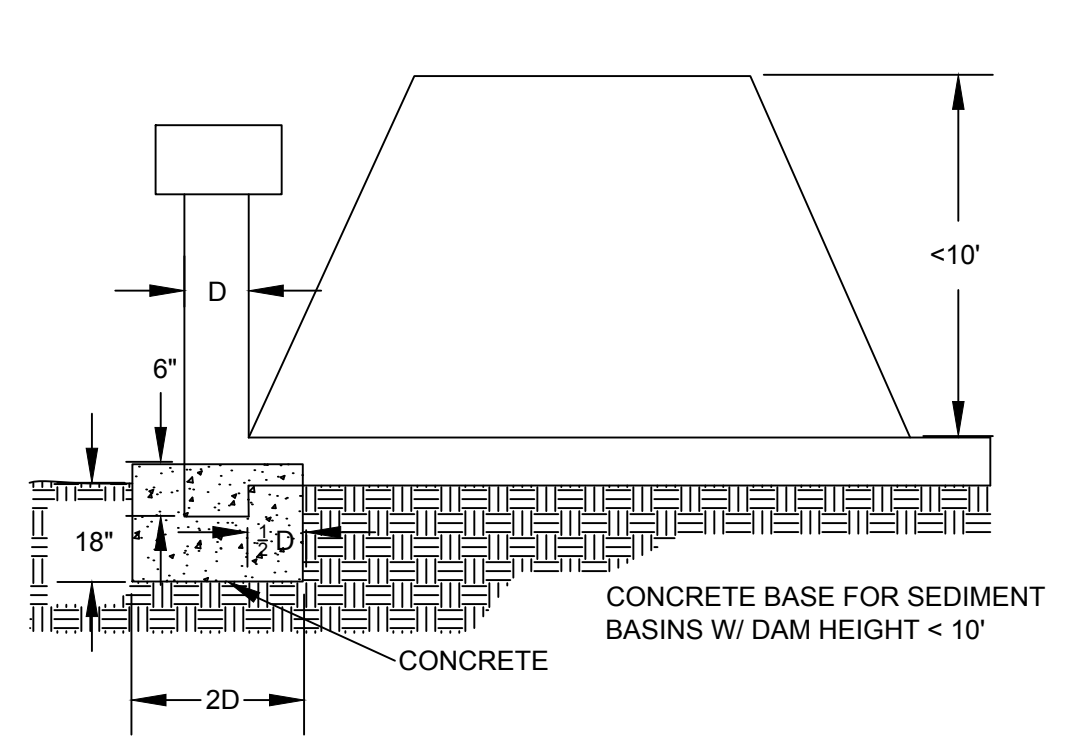
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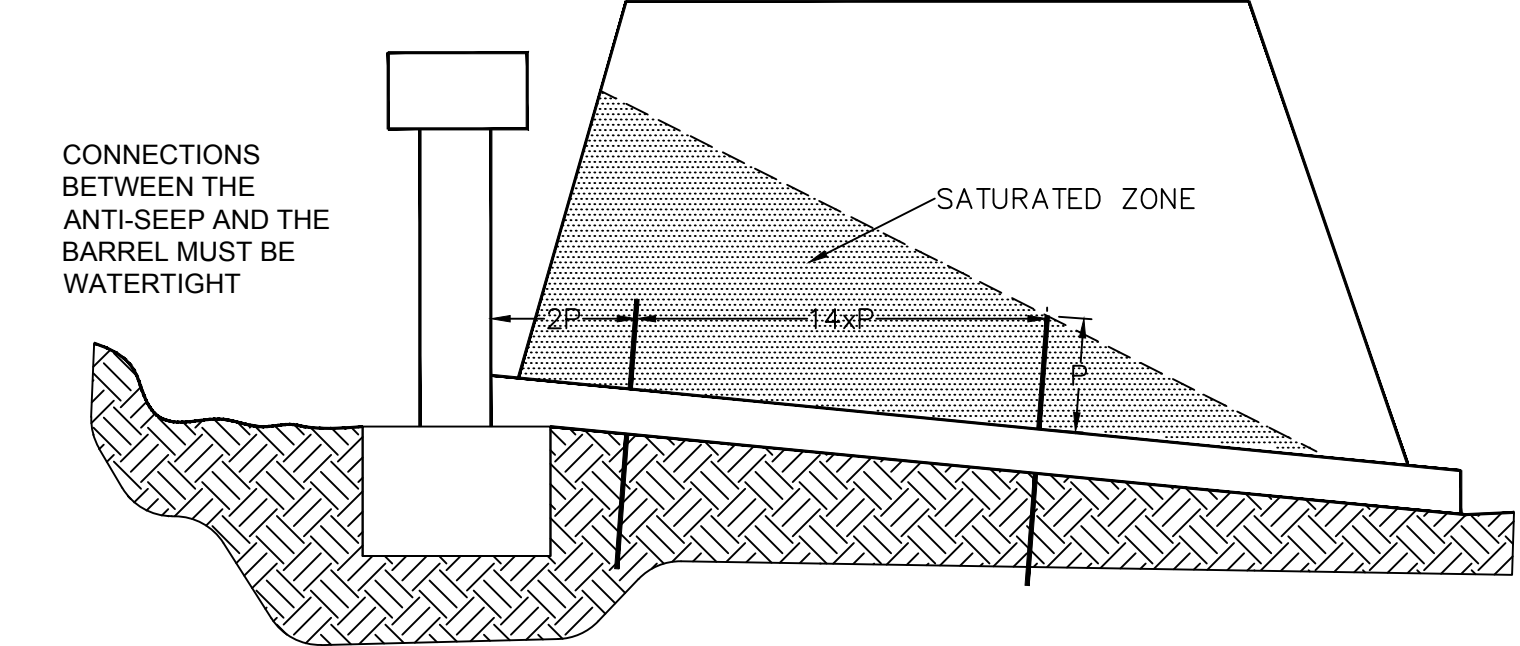
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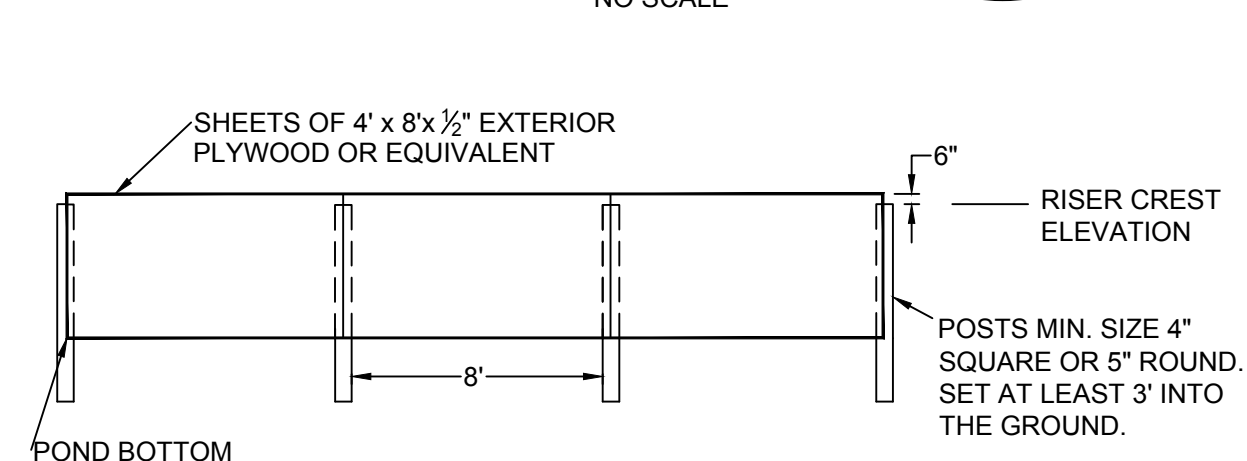
SB TEMPORARY SEDIMENT BASIN
NO SCALE 3.14-2



RISER PIPE BASE
NO SCALE 3.14-14

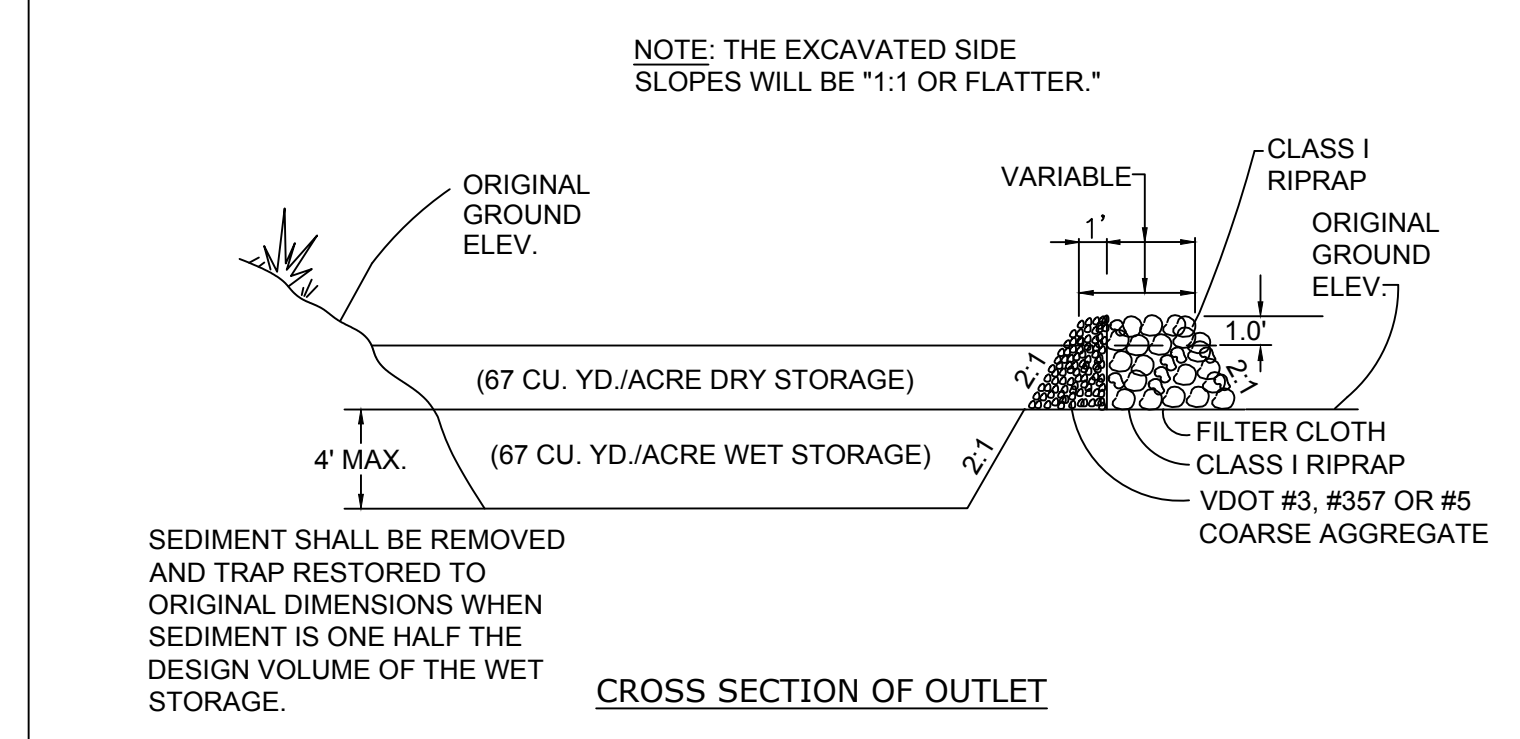


ANTI-SEEP COLLAR
NO SCALE 3.14-4

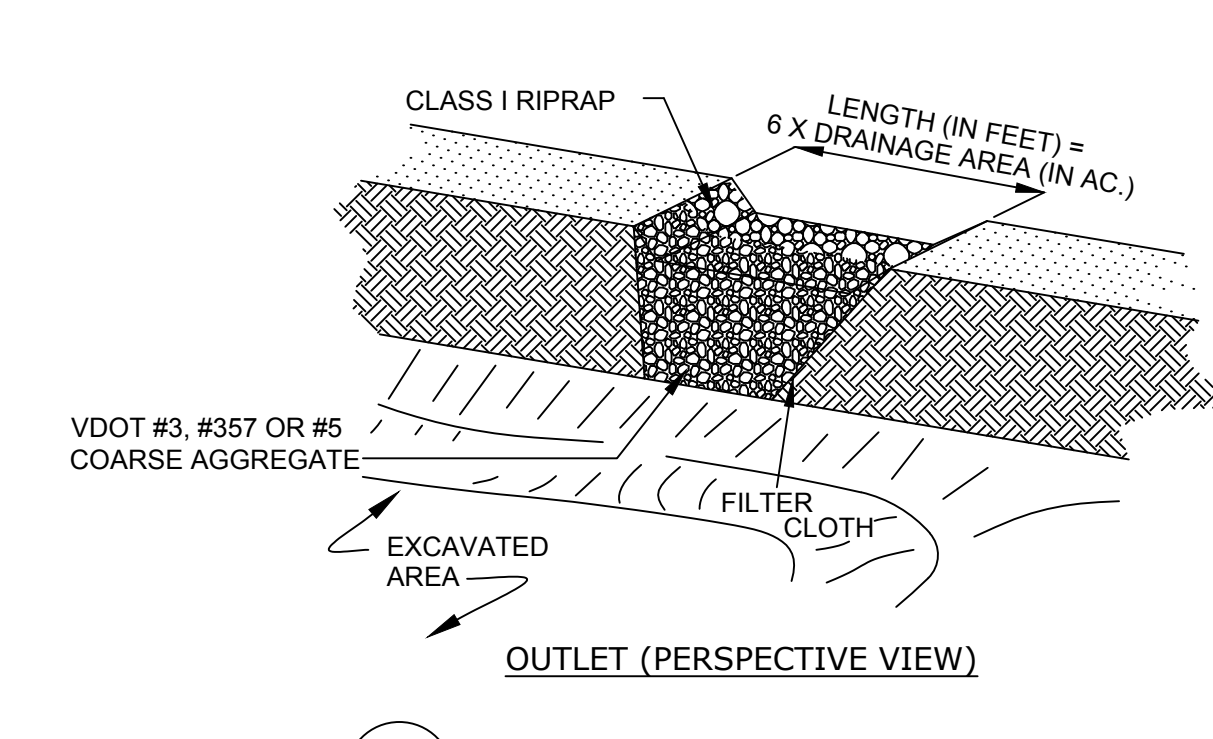


EXAMPLE PLAN VIEWS OF BAFFLE LOCATIONS IN SEDIMENT BASINS
NO SCALE 3.14-6

DESIGN DRAINAGE AREA (PHIPPHI)	Wet Storage		Dry Storage		Barrel Elevation	Riser Crest Elevation	Riser Diameter (inches)	Dewatering Device Elevation	Dewatering Diameter (inches)	25-Yr. Storm Elevation	Emergency Spillway Elevation	Anti-Vortex Device Diameter (inches)	Top of Dam Elevation	Top of Dam Width (feet)	Barrel		ANTI-SEEP COLLARS				
	Volume Required (Cu. Yd.)	Volume Provided (Cu. Yd.)	Volume Required (Cu. Yd.)	Volume Provided (Cu. Yd.)											Pipe Length (feet)	Pipe Diameter (inches)	Invert In	Invert Out	# REQUIRED	DIMENSIONS	
1	6.30	422	755	422	639	104.00	107.00	24	105.50	7	108.00	108.00	36	109.00	10	60.0	15	104.00	103.00	3	2.5'x2.5'
2	7.48	501	755	501	637	102.00	105.00	27	103.50	7	106.00	106.00	42	107.00	10	50.0	18	102.00	101.00	2	2.5'x2.5'
3	6.38	427	735	427	590	109.00	112.00	24	110.50	7	113.00	113.00	36	114.00	10	70.0	18	109.00	108.00	2	2.5'x2.5'

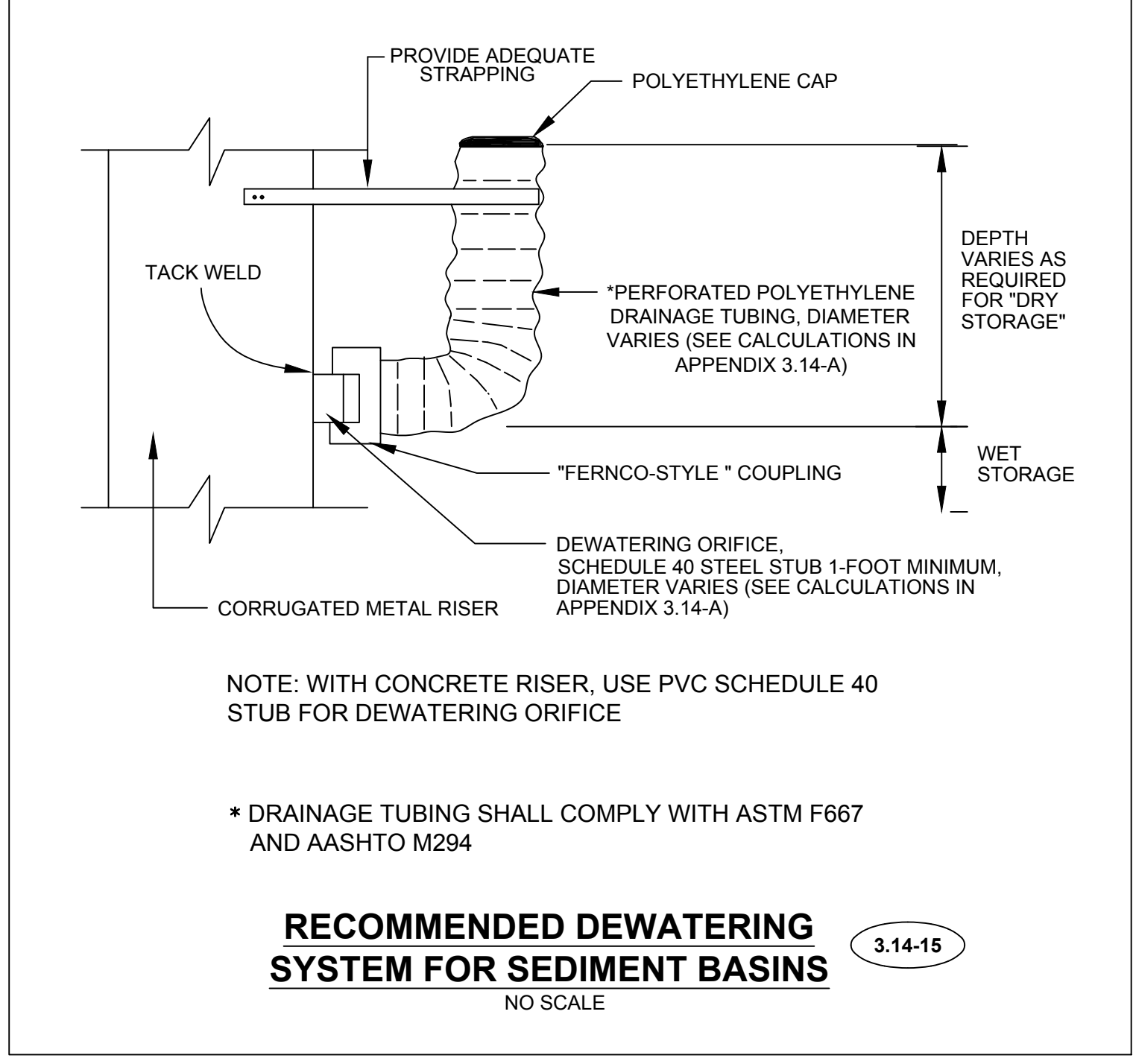


CROSS SECTION OF OUTLET

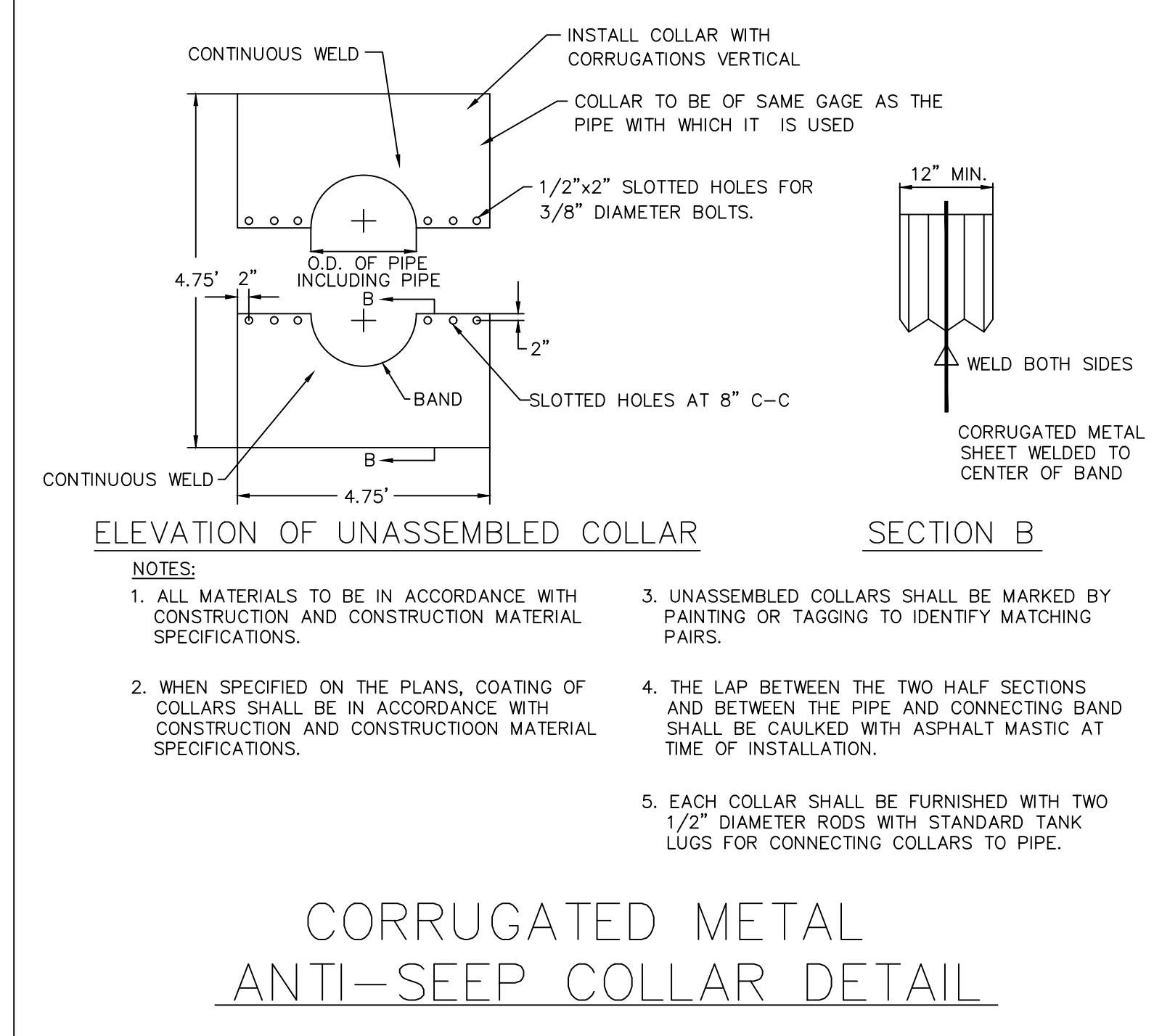


ST TEMPORARY SEDIMENT TRAP
NO SCALE
PLATE 3.13-2

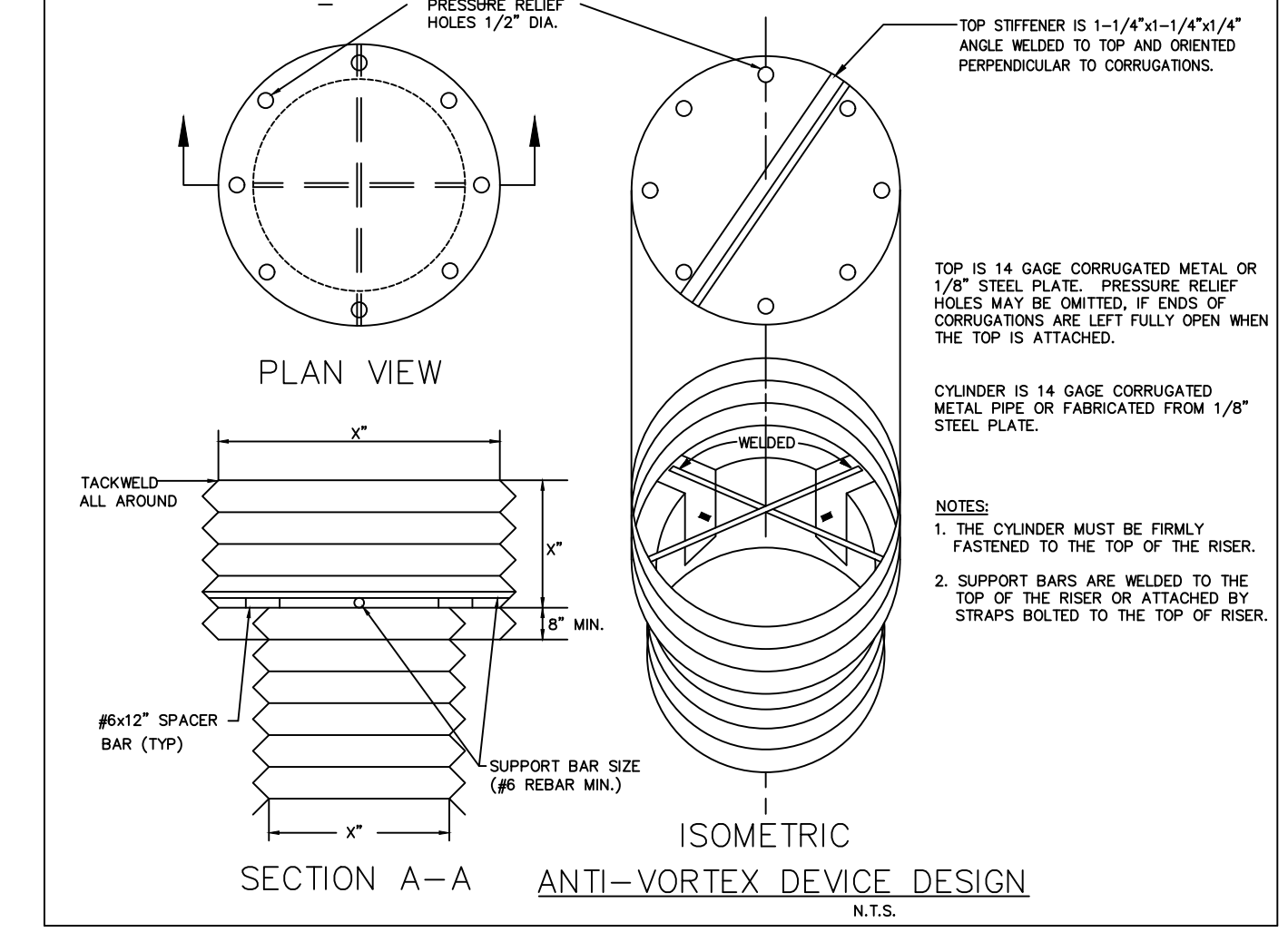
Trap #	Drainage Area (ac-ft)	Wet Storage			Dry Storage			Outlet Length (Feet)	Bottom Elevation	Top of Berm Elevation	Top of Berm Width	Bottom Dimensions (L x W)
		Volume Required (Cu. Yd.)	Volume Provided (Cu. Yd.)	Elevation	Volume Required (Cu. Yd.)	Volume Provided (Cu. Yd.)	Elevation					
1	2.20	147	152	109.00	147	214	111.00	14.00	107.00	112.00	3	58'x29'
2	2.75	184	185	95.00	184	252	97.00	16.50	93.00	98.00	3	65'x32'
3	2.95	198	203	95.00	198	274	97.00	18.00	93.00	98.00	3	68'x34'
4	2.95	198	203	104.00	198	274	106.00	18.00	102.00	107.00	3	68'x34'
5	1.78	119	121	112.00	119	178	114.00	11.00	110.00	115.00	3	52'x25'
6	2.10	141	143	112.00	141	204	114.00	13.00	110.00	115.00	3	56'x28'
7	1.87	125	142	115.00	125	203	117.00	11.50	113.00	118.00	3	64'x24'
8	2.50	168	172	112.00	168	237	114.00	15.00	110.00	115.00	3	64'x30'
9	2.95	198	203	110.00	198	274	112.00	18.00	108.00	113.00	3	68'x34'
10	2.95	198	203	107.00	198	274	109.00	18.00	105.00	110.00	3	68'x34'
11	2.70	181	185	107.00	181	252	109.00	16.50	105.00	110.00	3	65'x32'
12	2.95	198	203	105.00	198	274	107.00	18.00	103.00	108.00	3	68'x34'
13	2.95	198	203	107.00	198	274	109.00	18.00	105.00	110.00	3	68'x34'
14	2.90	194	203	109.00	194	274	111.00	17.50	107.00	112.00	3	68'x34'
15	2.95	198	203	114.00	198	274	116.00	18.00	112.00	117.00	3	68'x34'
16	2.95	198	203	112.00	198	274	114.00	18.00	110.00	115.00	3	68'x34'
17	2.80	188	192	114.00	188	264	116.00	17.00	112.00	117.00	3	64'x34'
18	2.60	174	182	108.00	174	249	110.00	16.00	106.00	111.00	3	64'x32'
19	2.00	134	143	111.00	134	202	113.00	12.00	109.00	114.00	3	56'x28'



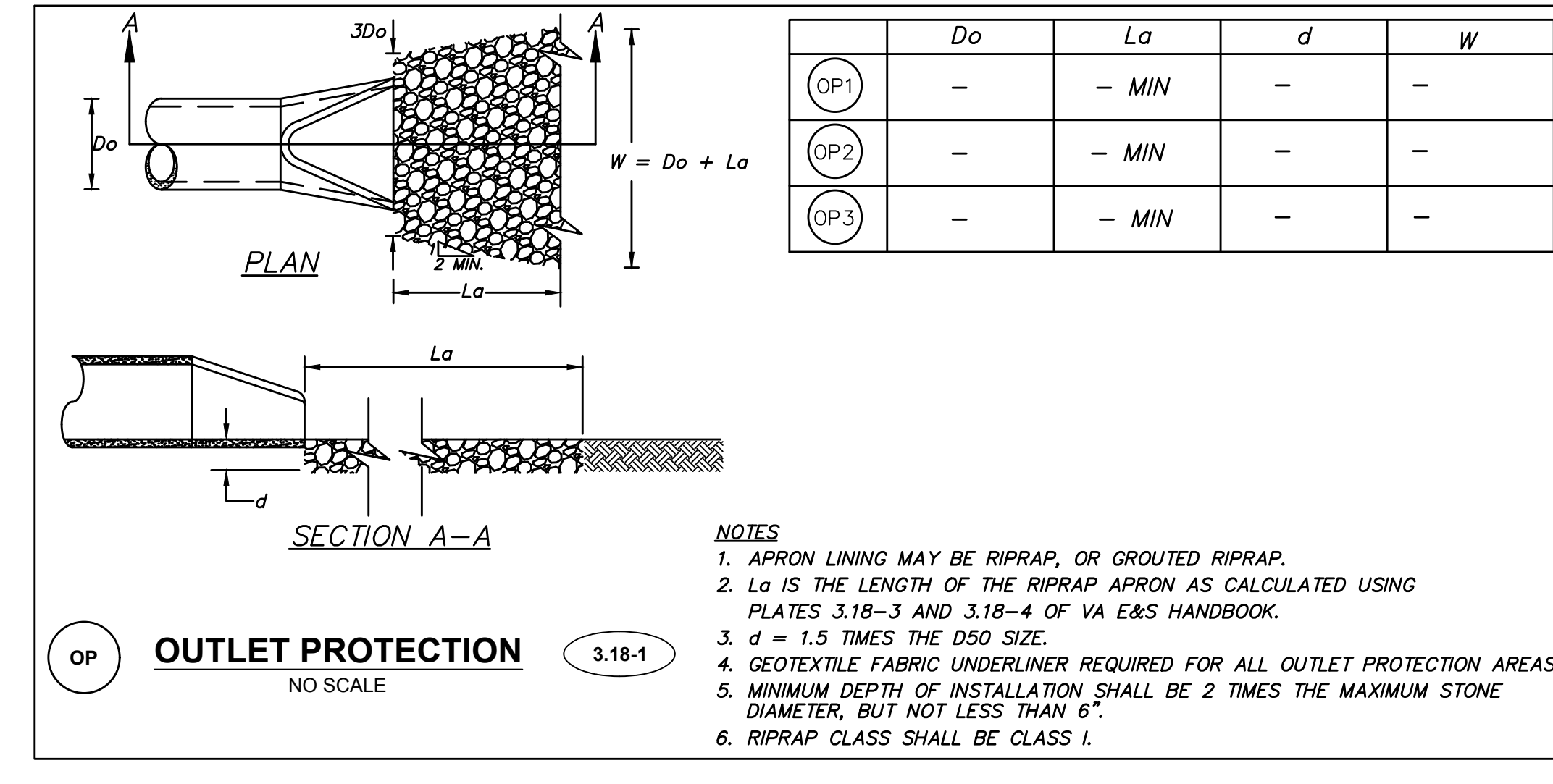
RECOMMENDED DEWATERING SYSTEM FOR SEDIMENT BASINS
NO SCALE 3.14-15



CORRUGATED METAL ANTI-SEEP COLLAR DETAIL



ANTI-VORTEX DEVICE DESIGN
N.T.S.



OUTLET PROTECTION
NO SCALE 3.18-1

	D_o	L_a	d	W
OP1	-	- MIN	-	-
OP2	-	- MIN	-	-
OP3	-	- MIN	-	-

- NOTES**
- APRON LINING MAY BE RIPRAP, OR GROUTED RIPRAP.
 - L_a IS THE LENGTH OF THE RIPRAP APRON AS CALCULATED USING PLATES 3.18-3 AND 3.18-4 OF VA E&S HANDBOOK.
 - $d = 1.5$ TIMES THE D_{50} SIZE.
 - GEOTEXTILE FABRIC UNDERLINER REQUIRED FOR ALL OUTLET PROTECTION AREAS.
 - MINIMUM DEPTH OF INSTALLATION SHALL BE 2 TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6".
 - RIPRAP CLASS SHALL BE CLASS I.



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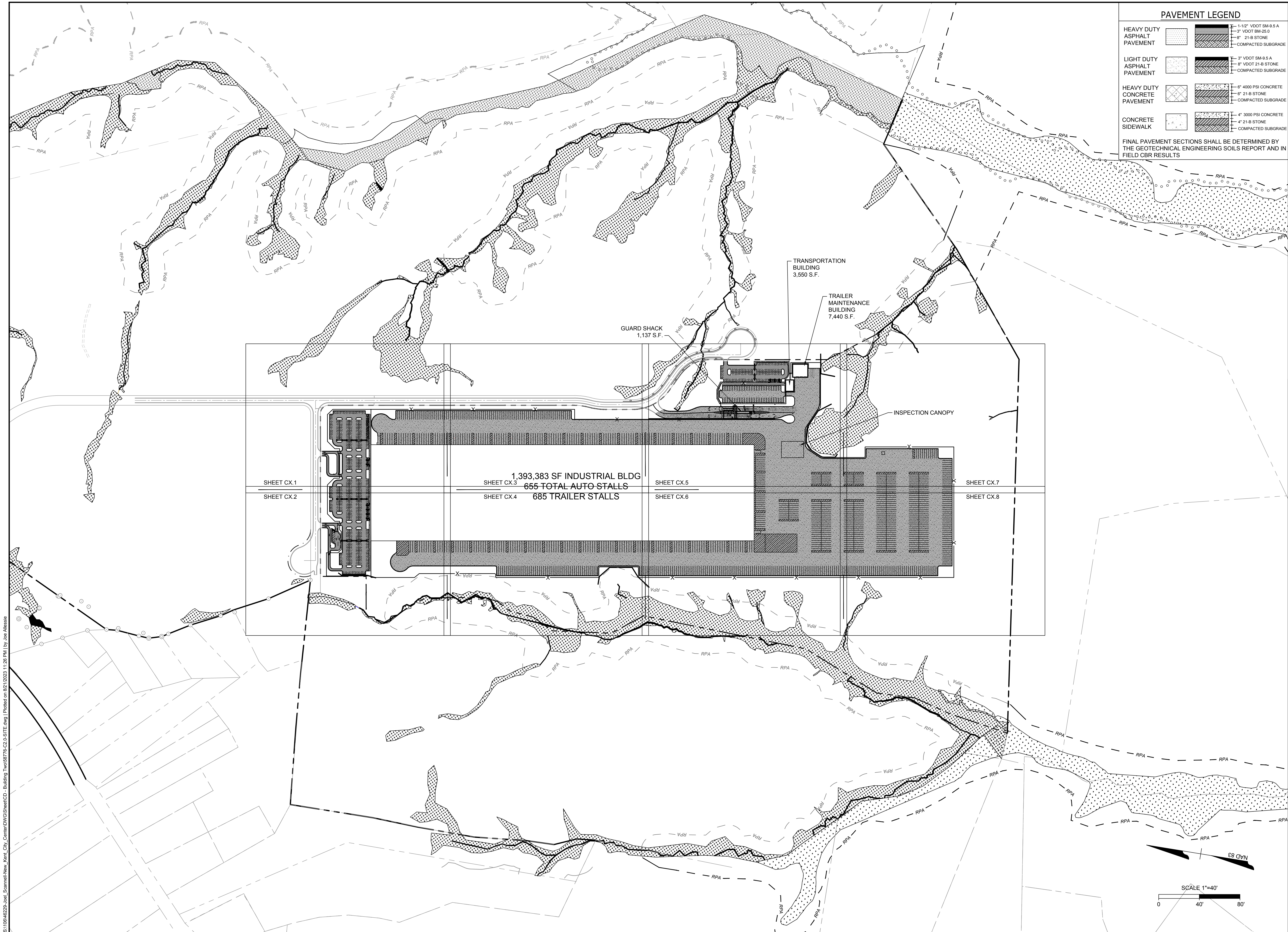
DATE: 8/21/2023
DRAWN BY: J. ALLESSIE
DESIGNED BY: M. HETZLER
CHECKED BY: K. HALPAUS
SCALE: NONE

TIMMONS GROUP

FORGE LOGISTICS BUILDING TWO
NEW KENT COUNTY - VIRGINIA

EROSION CONTROL NOTES AND DETAILS

JOB NO. 58776
SHEET NO. C1.10



PAVEMENT LEGEND

HEAVY DUTY ASPHALT PAVEMENT	1-1/2" VDOT SM-9.5 A	3" VDOT BM-25.0	8" 21-8 STONE	COMPACTED SUBGRADE
LIGHT DUTY ASPHALT PAVEMENT	3" VDOT SM-9.5 A	8" VDOT 21-8 STONE	COMPACTED SUBGRADE	
HEAVY DUTY CONCRETE PAVEMENT	6" 4000 PSI CONCRETE	6" 21-8 STONE	COMPACTED SUBGRADE	
CONCRETE SIDEWALK	4" 3000 PSI CONCRETE	4" 21-8 STONE	COMPACTED SUBGRADE	

FINAL PAVEMENT SECTIONS SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEERING SOILS REPORT AND IN FIELD CBR RESULTS



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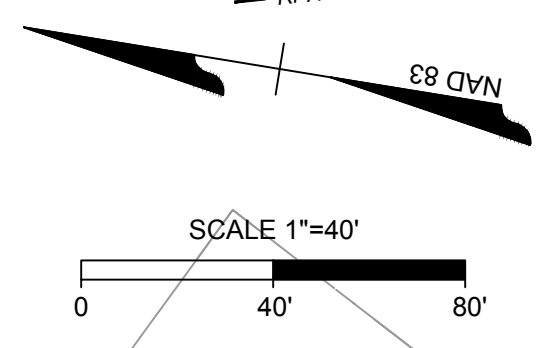
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DATE: 8/21/2023
 DRAWN BY: J. ALLESSIE
 DESIGNED BY: M. HETZLER
 CHECKED BY: K. HALPAUS
 SCALE: 1" = 250'

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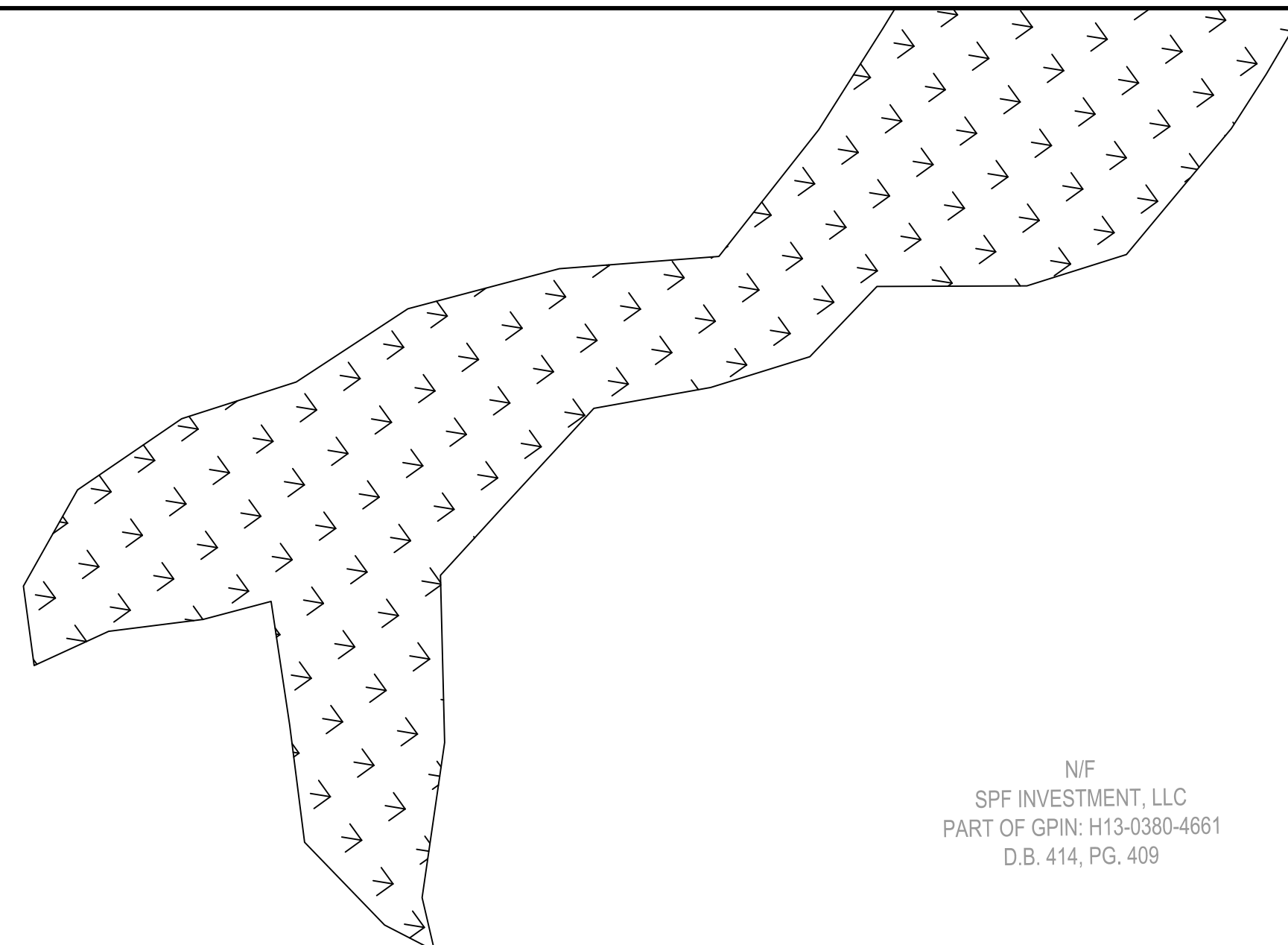
FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA
 SITE PLAN OVERALL

JOB NO. 58776
 SHEET NO. C2.0

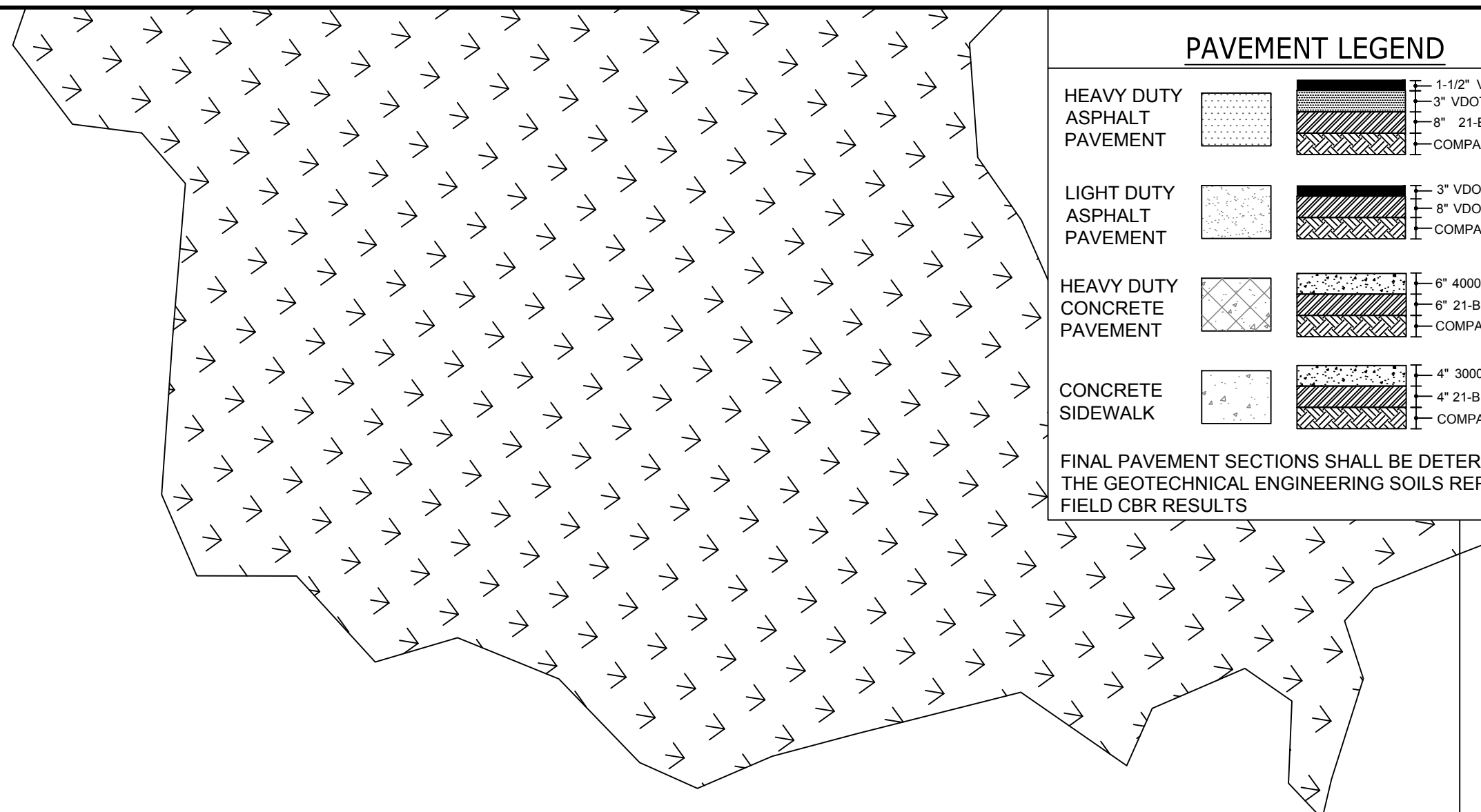


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 SPF INVESTMENT, LLC
 PART OF GPIN: H13-0380-4661
 D.B. 414, PG. 409



PAVEMENT LEGEND

HEAVY DUTY ASPHALT PAVEMENT	1-1/2" VDOT SM-9.5 A 3" VDOT BM-25.0 8" 21-B STONE COMPACTED SUBGRADE
LIGHT DUTY ASPHALT PAVEMENT	3" VDOT SM-9.5 A 8" VDOT 21-B STONE COMPACTED SUBGRADE
HEAVY DUTY CONCRETE PAVEMENT	6" 4000 PSI CONCRETE 8" 21-B STONE COMPACTED SUBGRADE
CONCRETE SIDEWALK	4" 3000 PSI CONCRETE 4" 21-B STONE COMPACTED SUBGRADE

FINAL PAVEMENT SECTIONS SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEERING SOILS REPORT AND IN FIELD CBR RESULTS

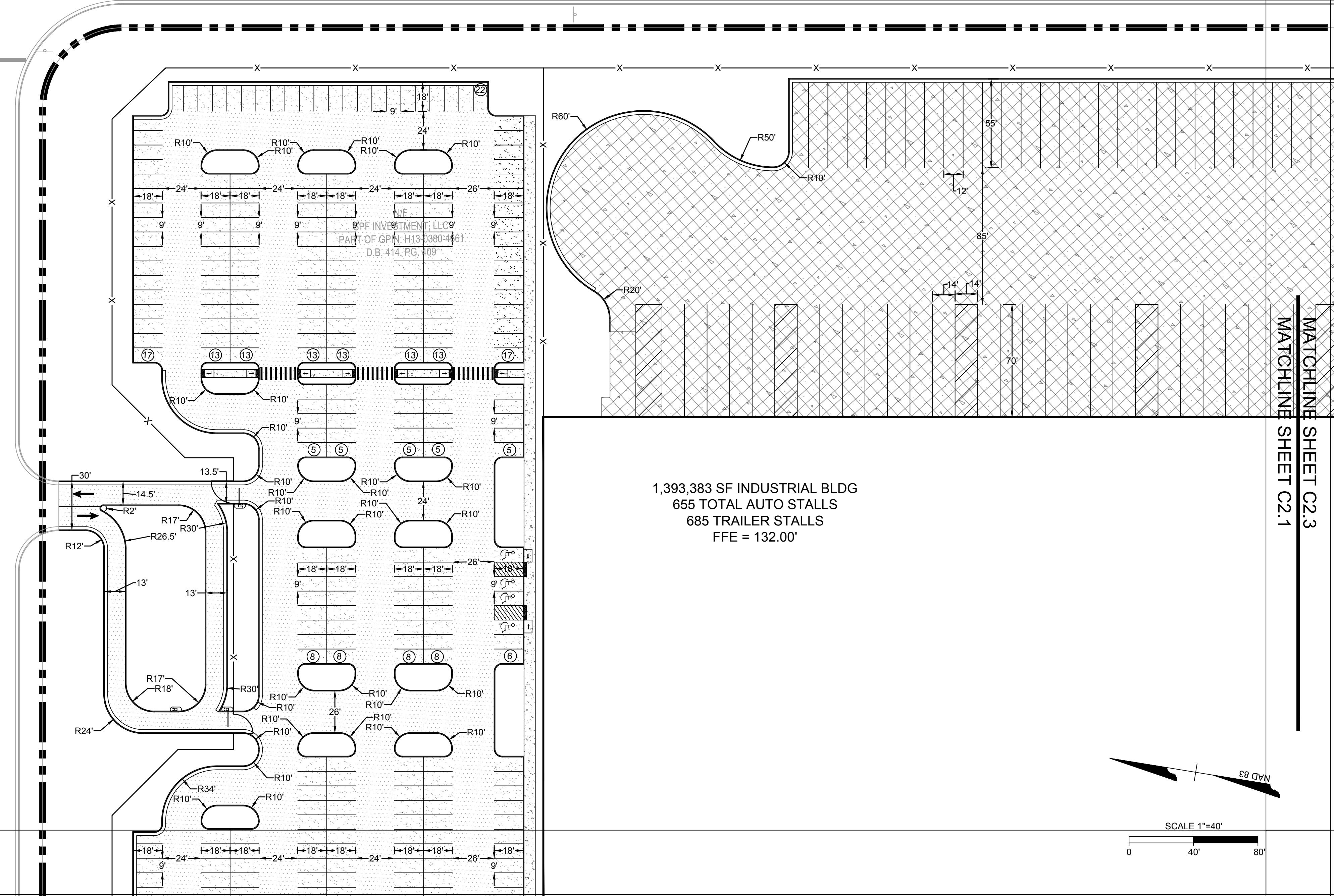


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MATCHLINE SHEET C2.3
 MATCHLINE SHEET C2.1

MATCHLINE SHEET C2.1
 MATCHLINE SHEET C2.2

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FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA
 SITE PLAN

JOB NO.	58776
SHEET NO.	C2.1

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MATCHLINE SHEET C2.1
MATCHLINE SHEET C2.2

(2) 2 HOLSTER ELECTRIC
CAR CHARGING STATIONS

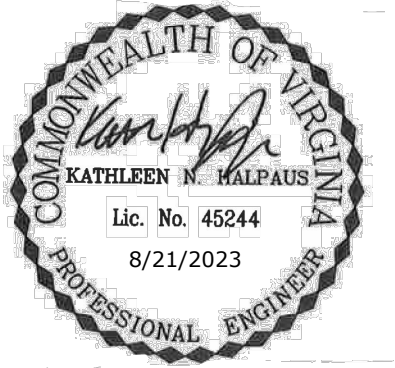
(3) 2 HOLSTER ELECTRIC
CAR CHARGING STATIONS

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SPF INVESTMENT, LLC
PART OF GPIN: H13-0380-4661
D.B. 414, PG. 409

1,393,383 SF INDUSTRIAL BLDG
655 TOTAL AUTO STALLS
685 TRAILER STALLS
FFE = 132.00'

PAVEMENT LEGEND		
HEAVY DUTY ASPHALT PAVEMENT		1-1/2" VDOT SM-9.5 A 3" VDOT BM-25.0 8" 21-8 STONE COMPACTED SUBGRADE
LIGHT DUTY ASPHALT PAVEMENT		3" VDOT SM-9.5 A 8" VDOT 21-8 STONE COMPACTED SUBGRADE
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DATE	REVISION DESCRIPTION

DATE
8/21/2023
DRAWN BY
J. ALLESSIE
DESIGNED BY
M. HETZLER
CHECKED BY
K. HALPAUS
SCALE
1" = 40'

TIMMONS GROUP

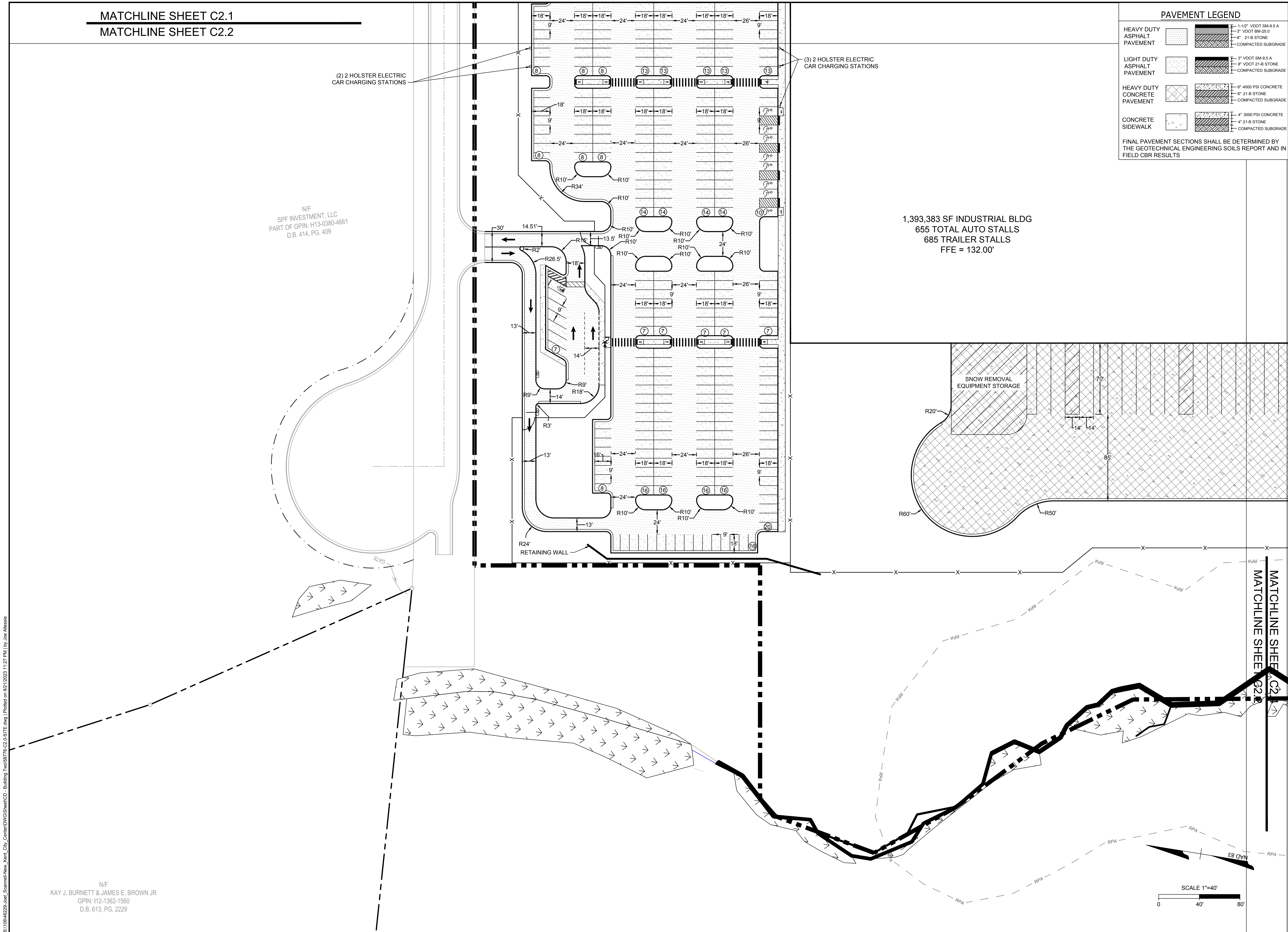
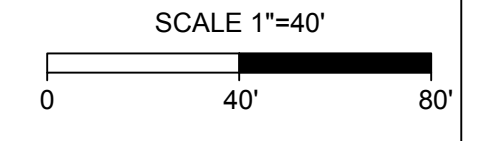
FORGE LOGISTICS BUILDING TWO
NEW KENT COUNTY - VIRGINIA
SITE PLAN

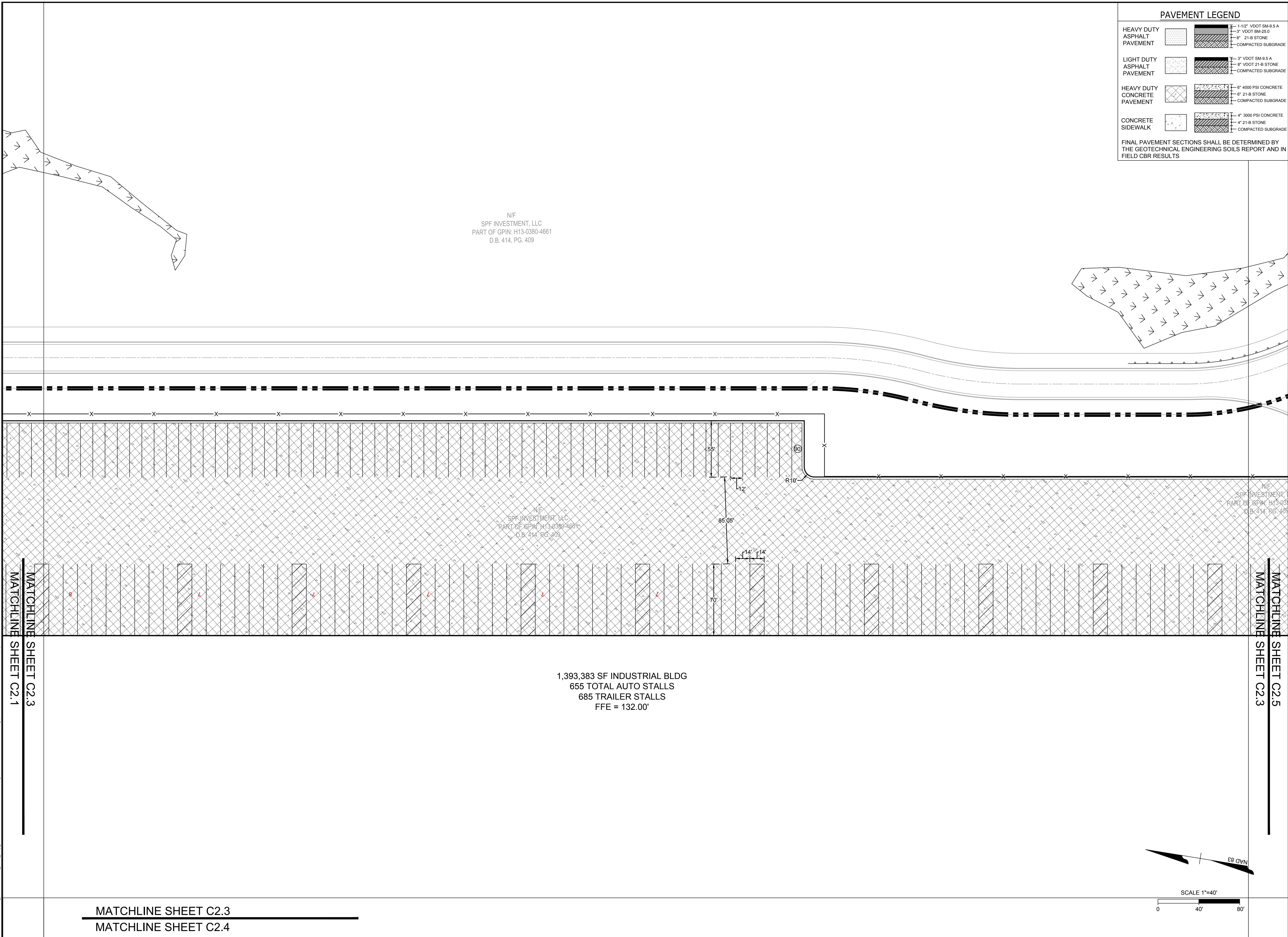
JOB NO.
58776
SHEET NO.
C2.2

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KAY J. BURNETT & JAMES E. BROWN JR
GPIN: I12-1362-1560
D.B. 613, PG. 2229



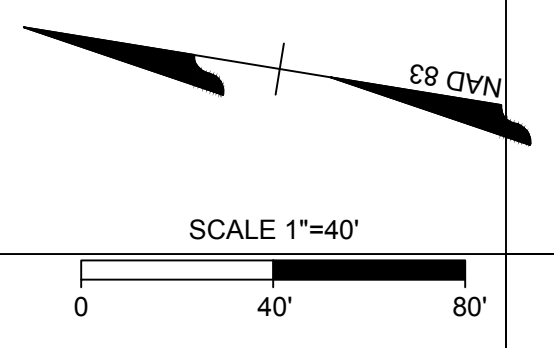


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PART OF GPIN: H13-0380-4661
D.B. 414, PG. 409

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SPF INVESTMENT, LLC
PART OF GPIN: H13-0380-4661
D.B. 414, PG. 409

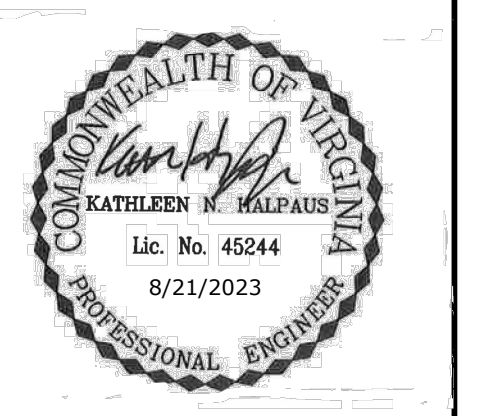
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PART OF GPIN: H13-0380-4661
D.B. 414, PG. 409

1,393,383 SF INDUSTRIAL BLDG
655 TOTAL AUTO STALLS
685 TRAILER STALLS
FFE = 132.00'



PAVEMENT LEGEND	
HEAVY DUTY ASPHALT PAVEMENT	1-1/2" VDOT SM-9.5 A 3" VDOT BM-25.0 8" 21-8 STONE COMPACTED SUBGRADE
LIGHT DUTY ASPHALT PAVEMENT	3" VDOT SM-9.5 A 8" VDOT 21-8 STONE COMPACTED SUBGRADE
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CONCRETE SIDEWALK	4" 3000 PSI CONCRETE 4" 21-8 STONE COMPACTED SUBGRADE

FINAL PAVEMENT SECTIONS SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEERING SOILS REPORT AND IN FIELD CBR RESULTS



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DRAWN BY	J. ALLESSIE
DESIGNED BY	M. HETZLER
CHECKED BY	K. HALPAUS
SCALE	1" = 40'

FORGE LOGISTICS BUILDING TWO

NEW KENT COUNTY - VIRGINIA

SITE PLAN

JOB NO.	58776
SHEET NO.	C2.3

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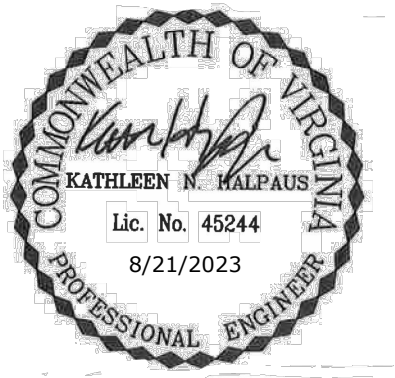
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MATCHLINE SHEET C2.3
 MATCHLINE SHEET C2.4

1,393,383 SF INDUSTRIAL BLDG
 655 TOTAL AUTO STALLS
 685 TRAILER STALLS
 FFE = 132.00'

PAVEMENT LEGEND	
HEAVY DUTY ASPHALT PAVEMENT	1-1/2" VDOT SM-9.5 A 3" VDOT BM-25.0 8" 21-8 STONE COMPACTED SUBGRADE
LIGHT DUTY ASPHALT PAVEMENT	3" VDOT SM-9.5 A 8" VDOT 21-8 STONE COMPACTED SUBGRADE
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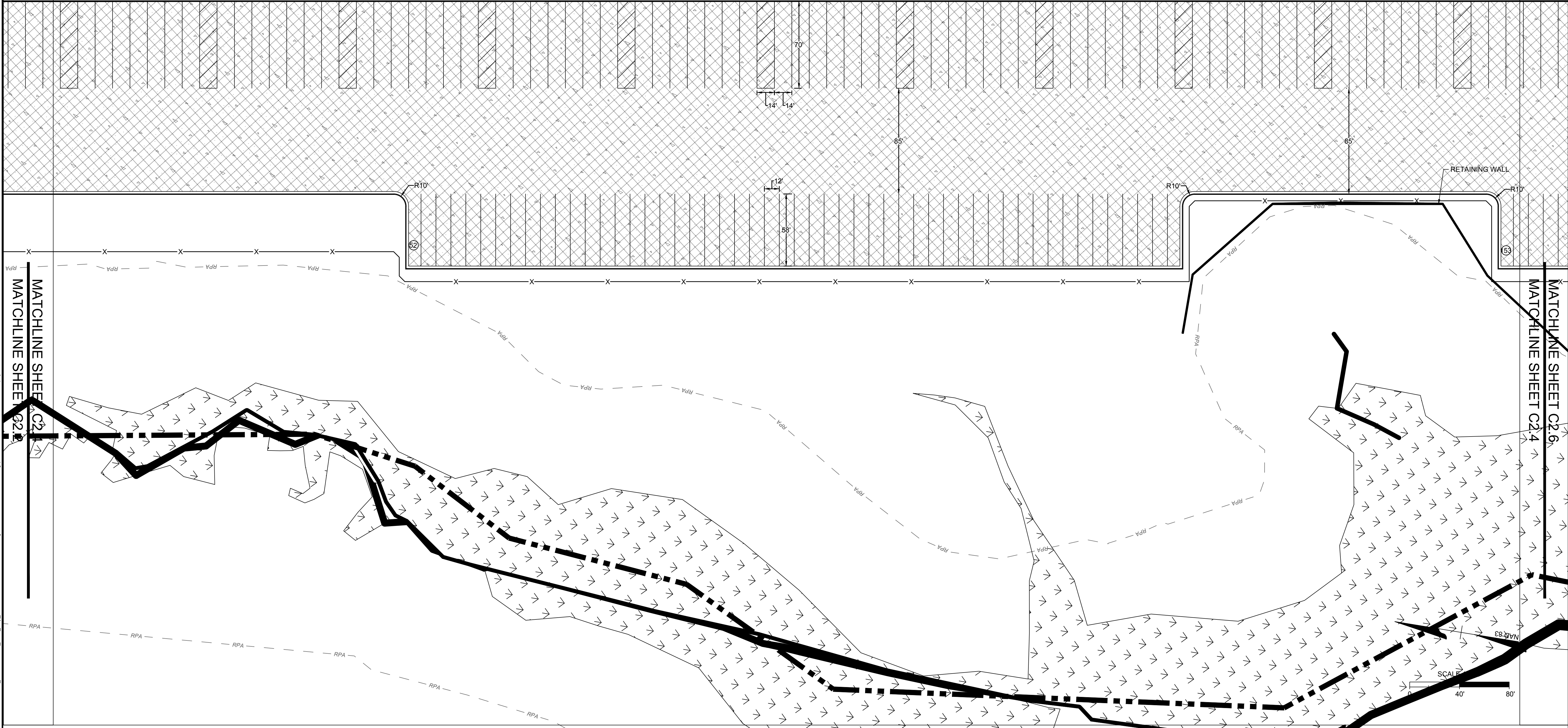
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 DESIGNED BY: M. HETZLER
 CHECKED BY: K. HALPAUS
 SCALE: 1" = 40'

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 NEW KENT COUNTY - VIRGINIA
 SITE PLAN

JOB NO. 58776
 SHEET NO. C2.4



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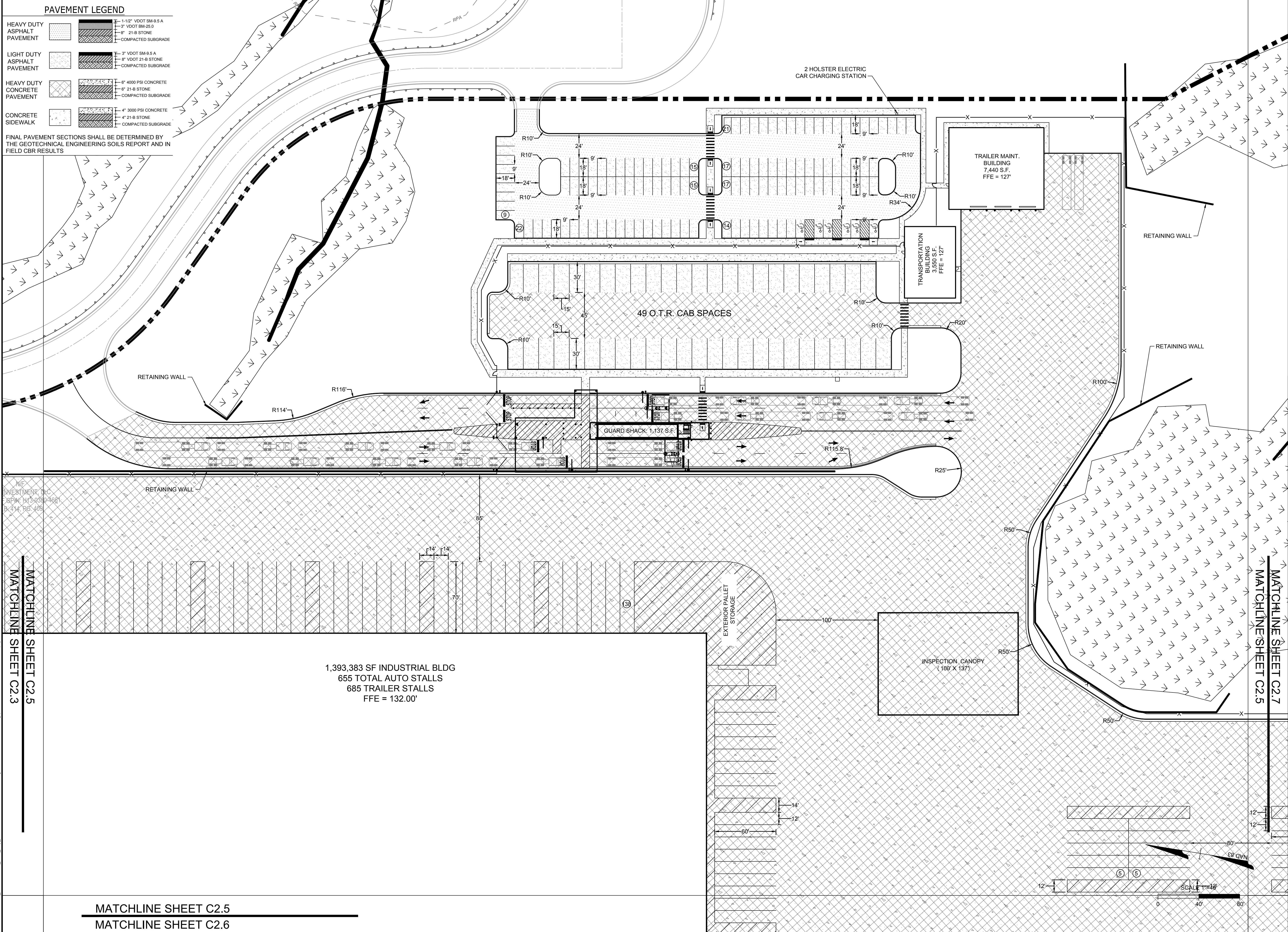
DATE: 8/21/2023
 DRAWN BY: J. ALLESSIE
 DESIGNED BY: M. HETZLER
 CHECKED BY: K. HALPAUS

SCALE: 1" = 40'

TIMMONS GROUP

FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA
 SITE PLAN

JOB NO. 58776
 SHEET NO. C2.5



PAVEMENT LEGEND

HEAVY DUTY ASPHALT PAVEMENT	1-1/2" VDOT SM-9.5 A 3" VDOT BM-25.0 8" 21-B STONE COMPACTED SUBGRADE
LIGHT DUTY ASPHALT PAVEMENT	3" VDOT SM-9.5 A 8" VDOT 21-B STONE COMPACTED SUBGRADE
HEAVY DUTY CONCRETE PAVEMENT	6" 4000 PSI CONCRETE 6" 21-B STONE COMPACTED SUBGRADE
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FINAL PAVEMENT SECTIONS SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEERING SOILS REPORT AND IN FIELD CBR RESULTS

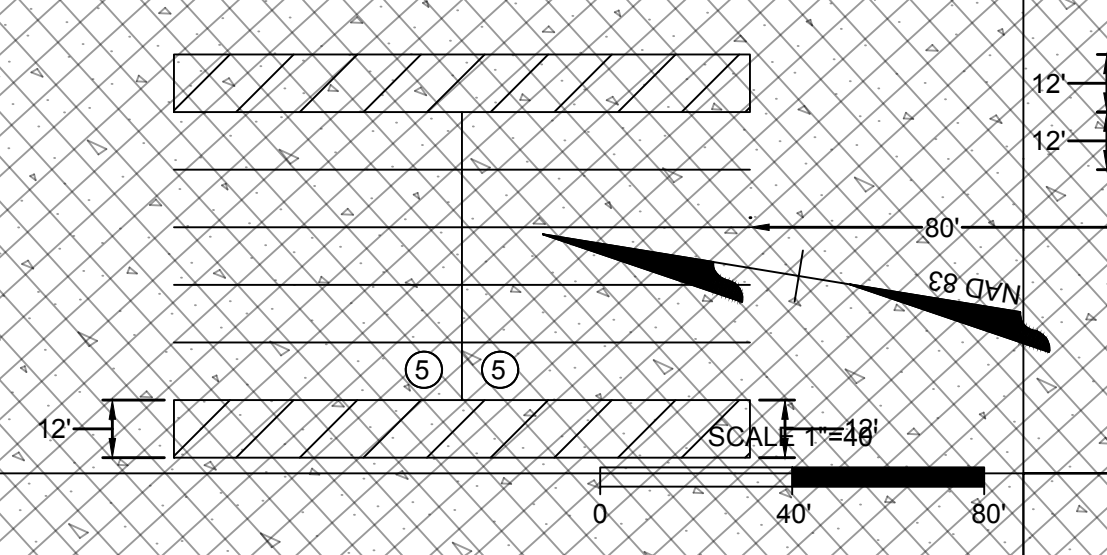
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 68PM H43-030-4681
 B-414 PG. 405

MATCHLINE SHEET C2.5
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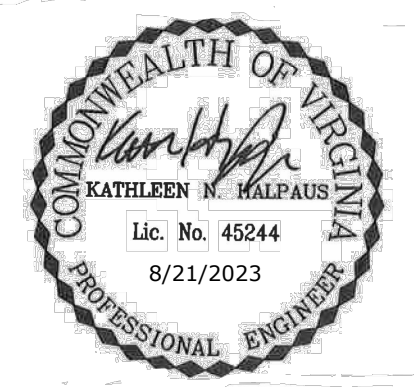
1,393,383 SF INDUSTRIAL BLDG
 655 TOTAL AUTO STALLS
 685 TRAILER STALLS
 FFE = 132.00'

MATCHLINE SHEET C2.7
 MATCHLINE SHEET C2.5

MATCHLINE SHEET C2.5
 MATCHLINE SHEET C2.6



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 DESIGNED BY: M. HETZLER
 CHECKED BY: K. HALPAUS
 SCALE: 1" = 40'

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FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA
 SITE PLAN

JOB NO.	58776
SHEET NO.	C2.6

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MATCHLINE SHEET C2.5
 MATCHLINE SHEET C2.6

1,393,383 SF INDUSTRIAL BLDG
 655 TOTAL AUTO STALLS
 685 TRAILER STALLS
 FFE = 132.00'



PAVEMENT LEGEND

HEAVY DUTY ASPHALT PAVEMENT		1-1/2" VDOT SM-9.5 A 3" VDOT BM-25.0 5" 21-B STONE COMPACTED SUBGRADE
LIGHT DUTY ASPHALT PAVEMENT		3" VDOT SM-9.5 A 8" VDOT 21-B STONE COMPACTED SUBGRADE
HEAVY DUTY CONCRETE PAVEMENT		4" 3000 PSI CONCRETE 4" 21-B STONE COMPACTED SUBGRADE
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FINAL PAVEMENT SECTIONS SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEERING SOILS REPORT AND IN FIELD CBR RESULTS

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DATE	REVISION DESCRIPTION
8/21/2023	

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J. ALLESSIE

DESIGNED BY
M. HETZLER

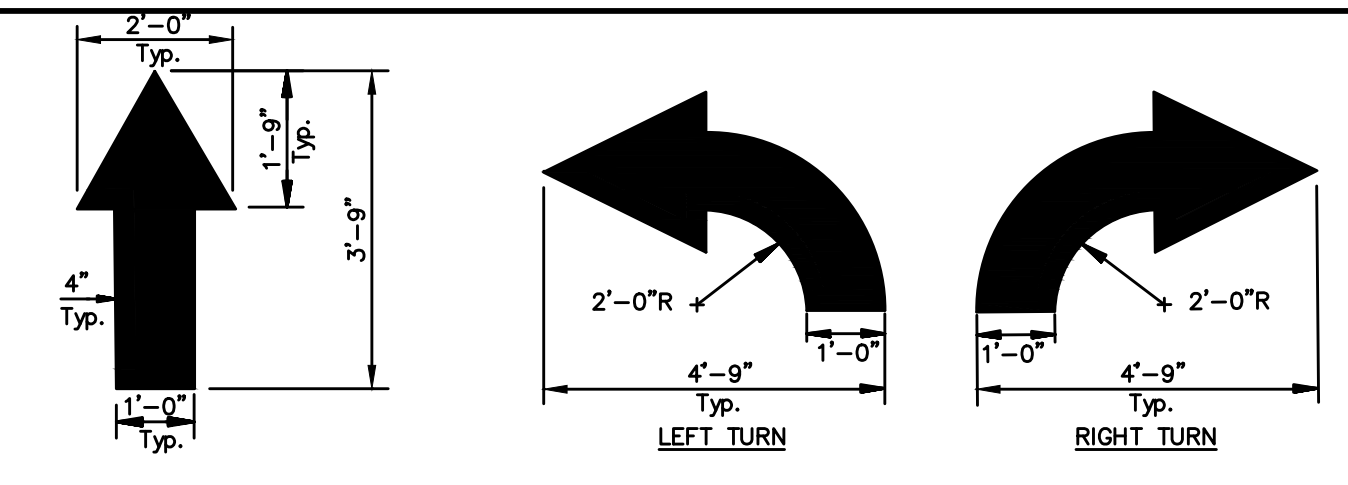
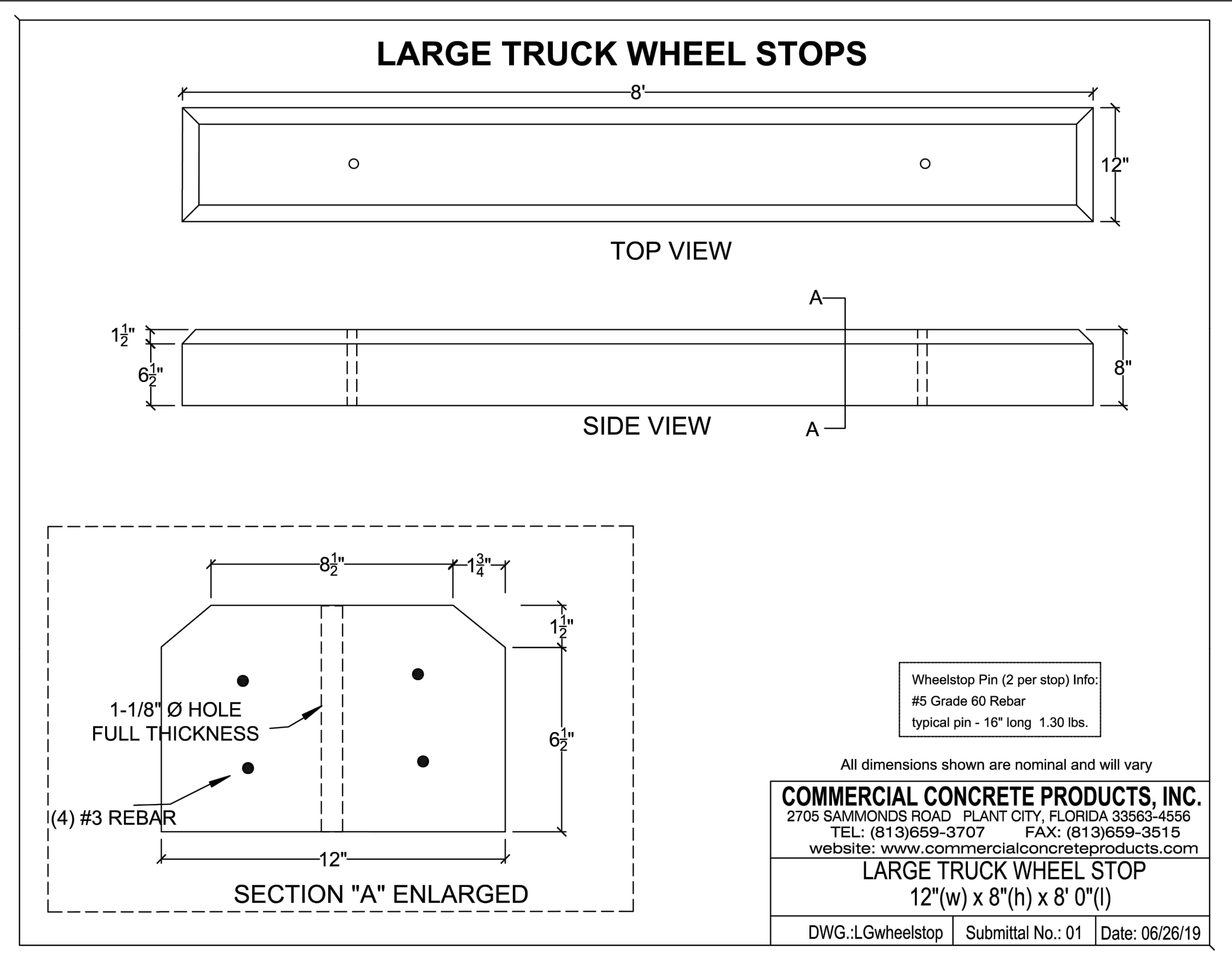
CHECKED BY
K. HALPAUS

SCALE
 NONE

TIMMONS GROUP
 FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA
 SITE NOTES AND DETAILS

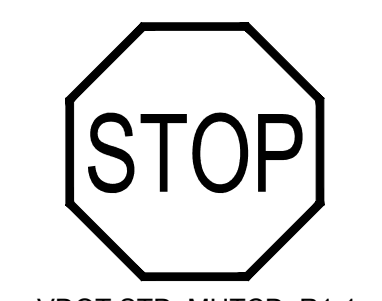
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JOB NO.	58776
SHEET NO.	C2.9

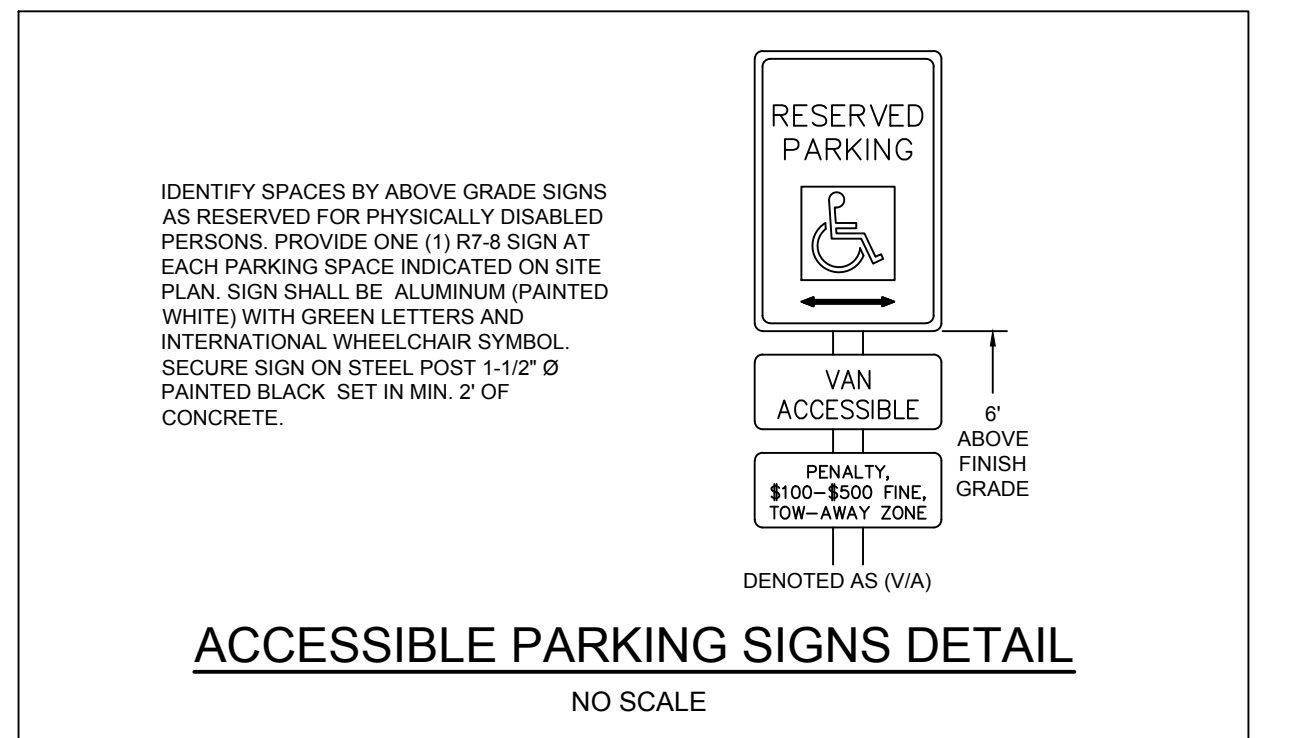
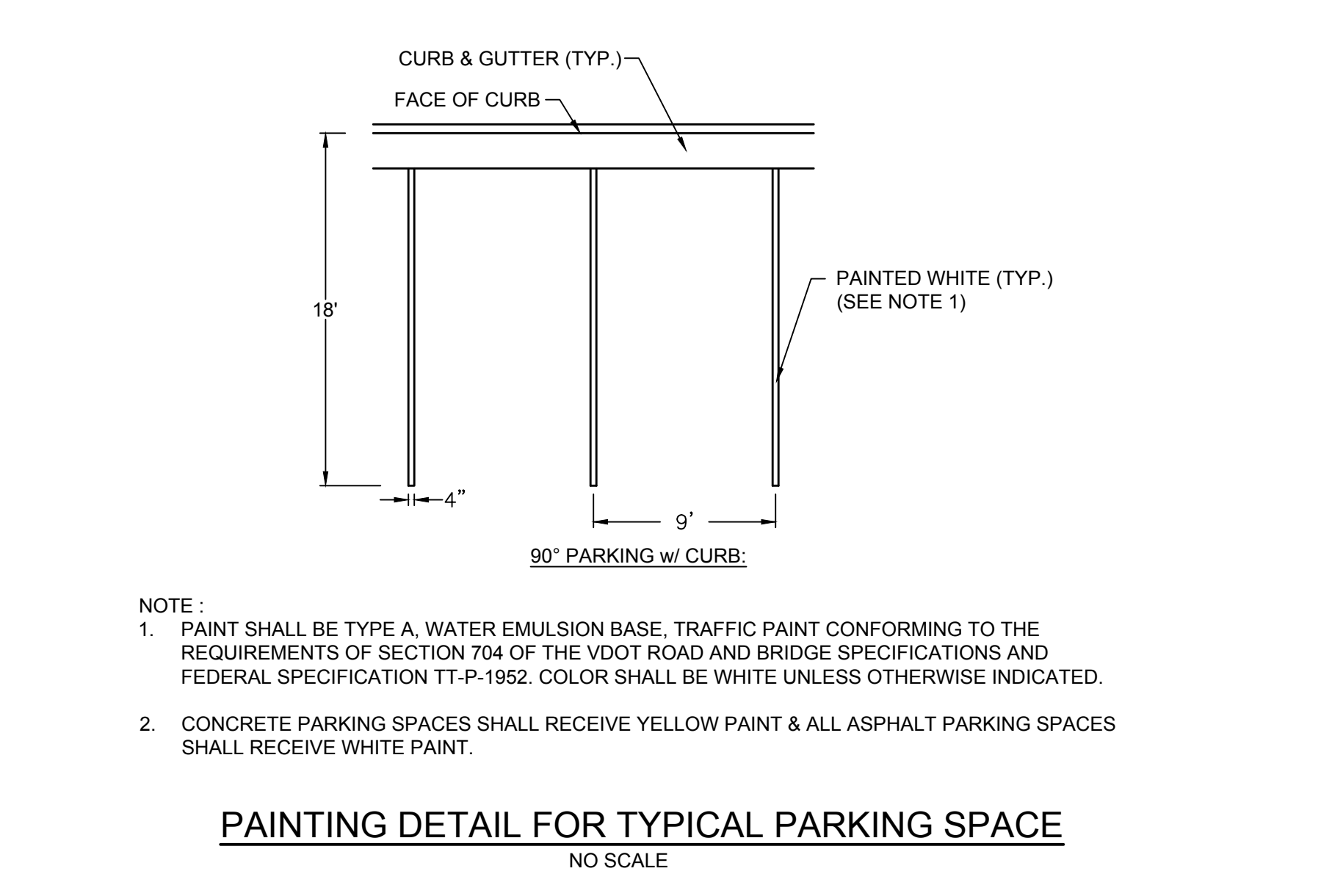
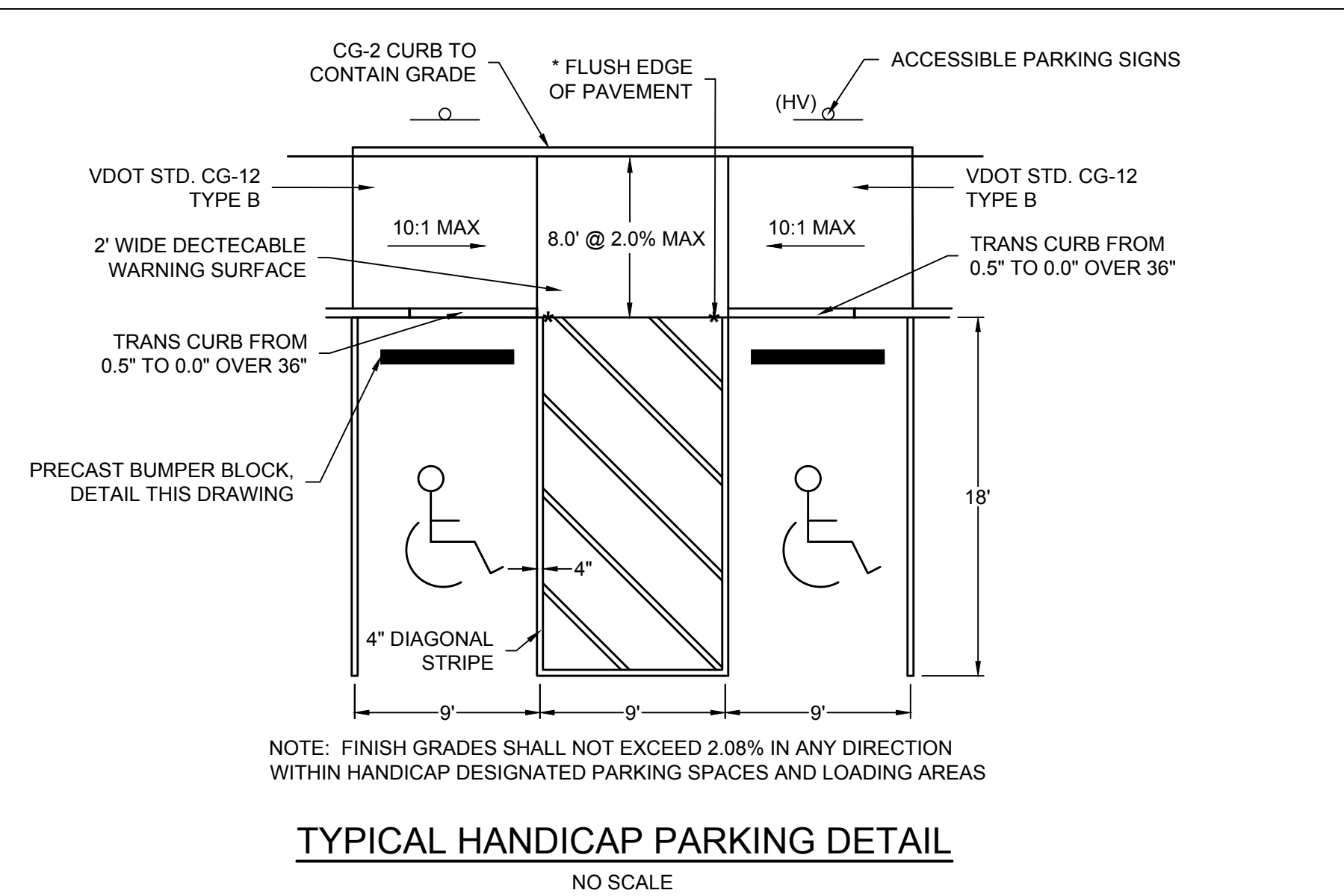
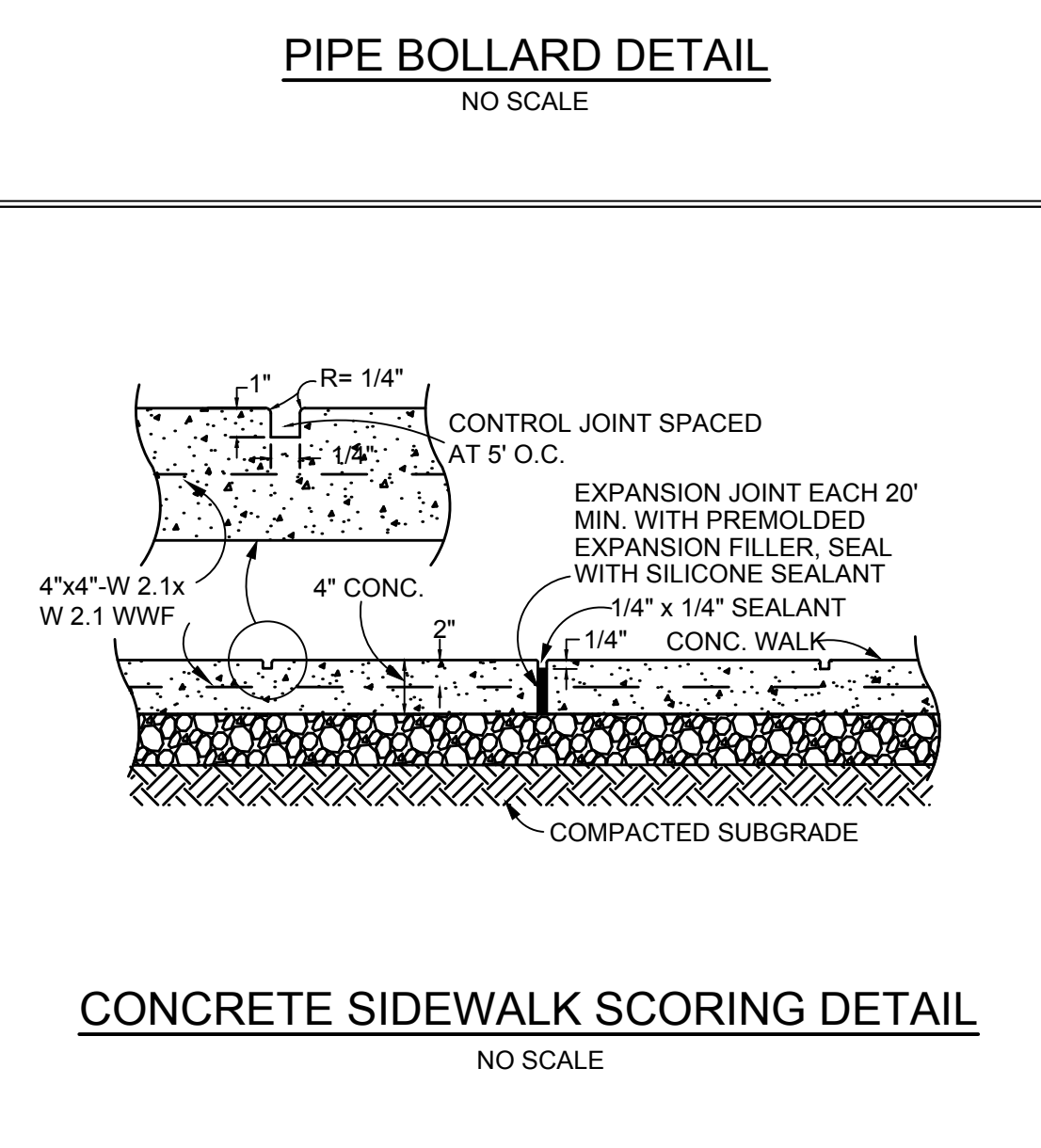
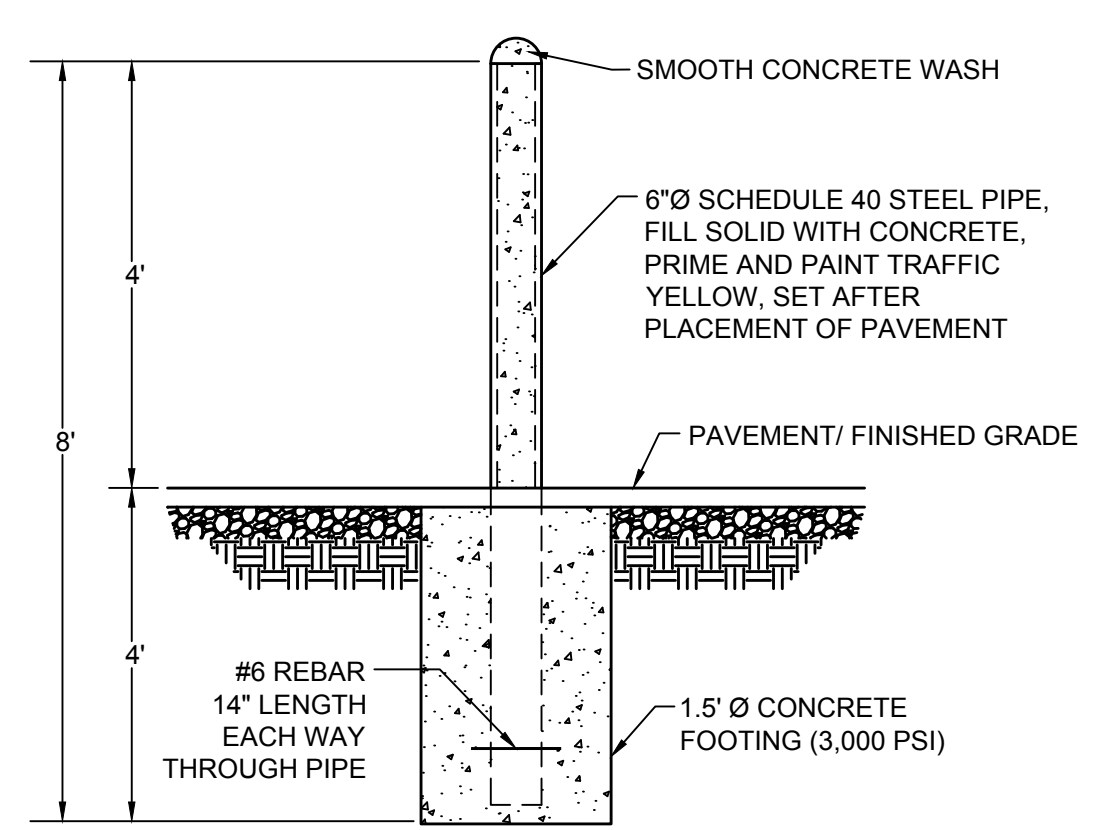
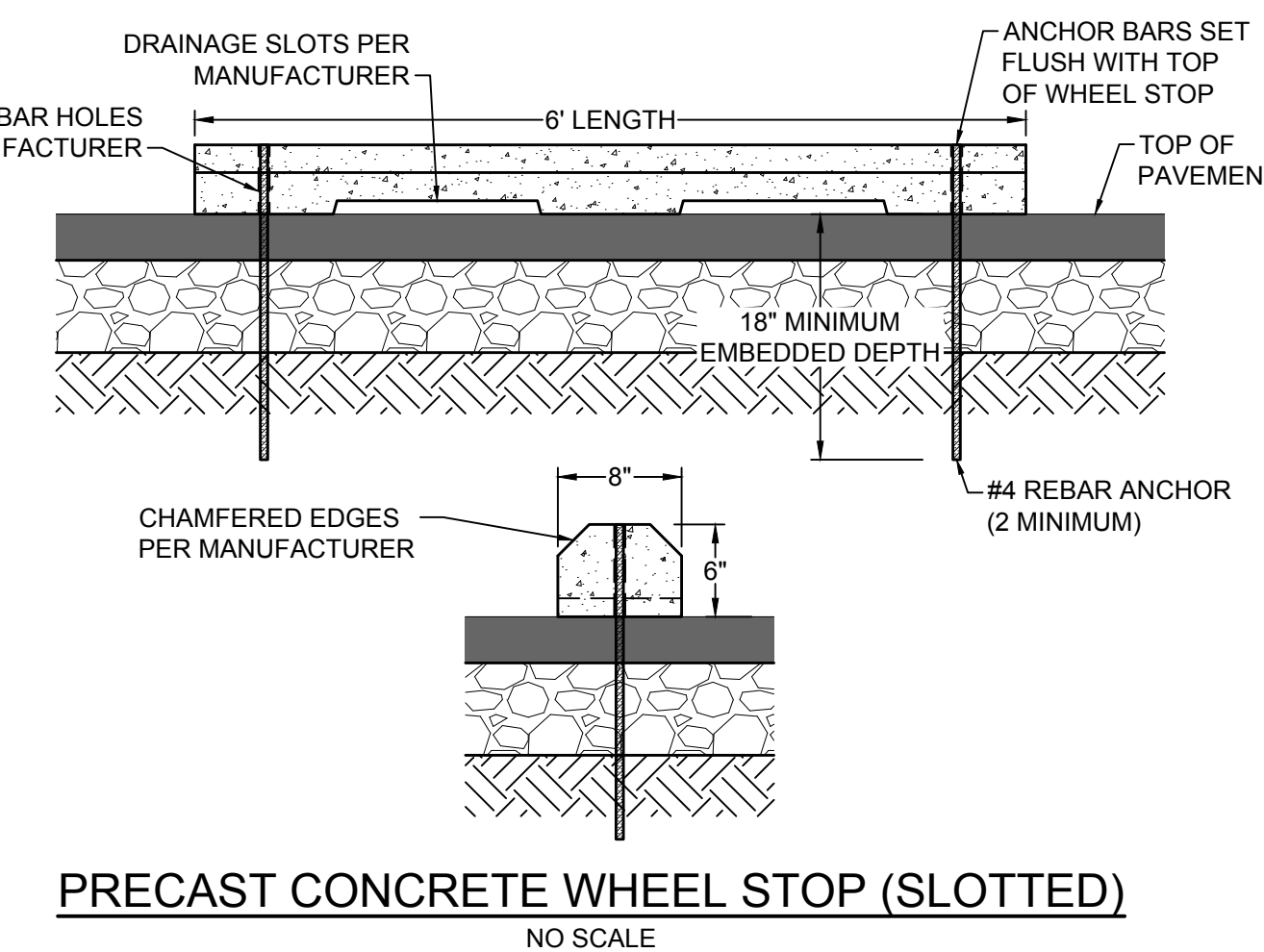
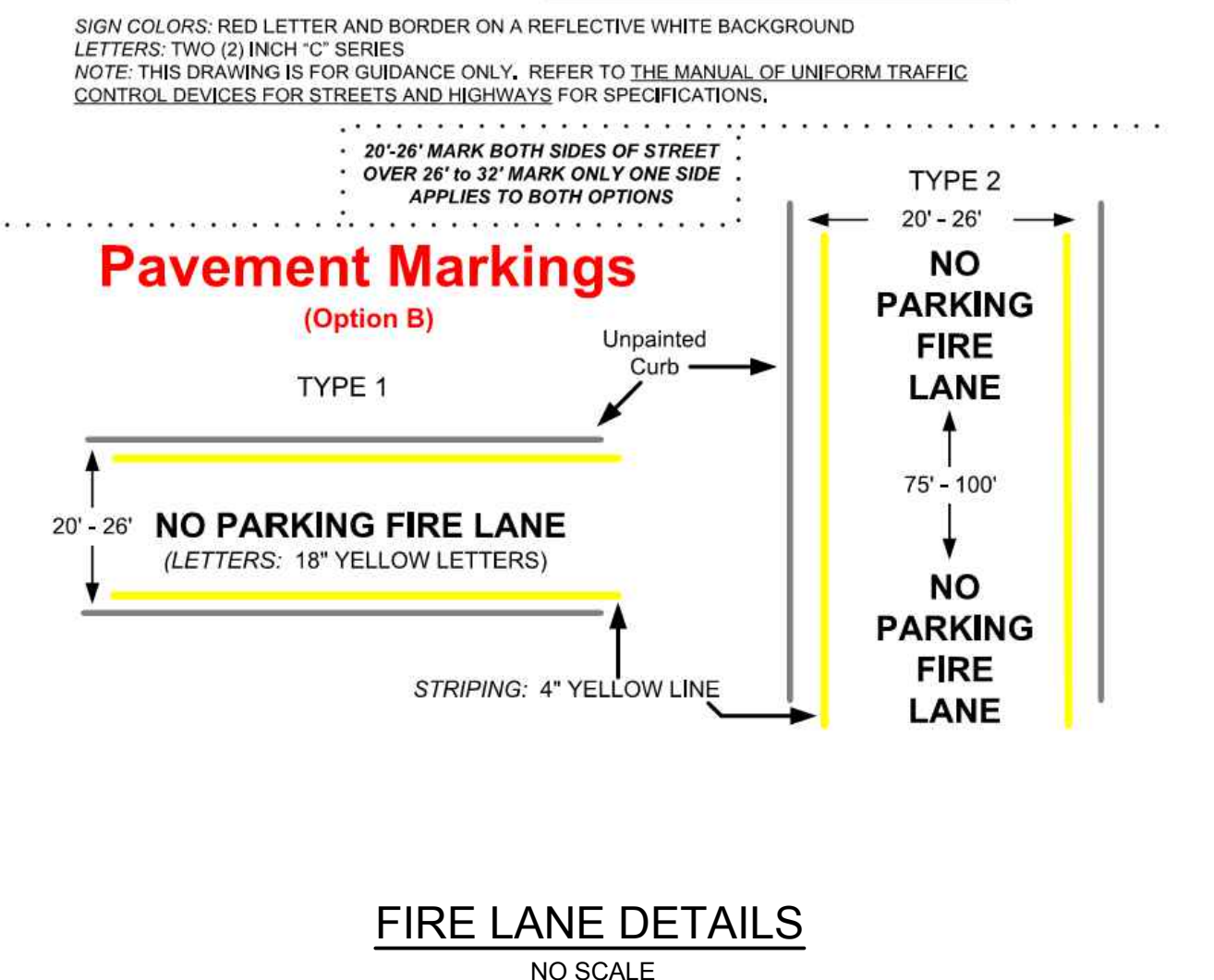
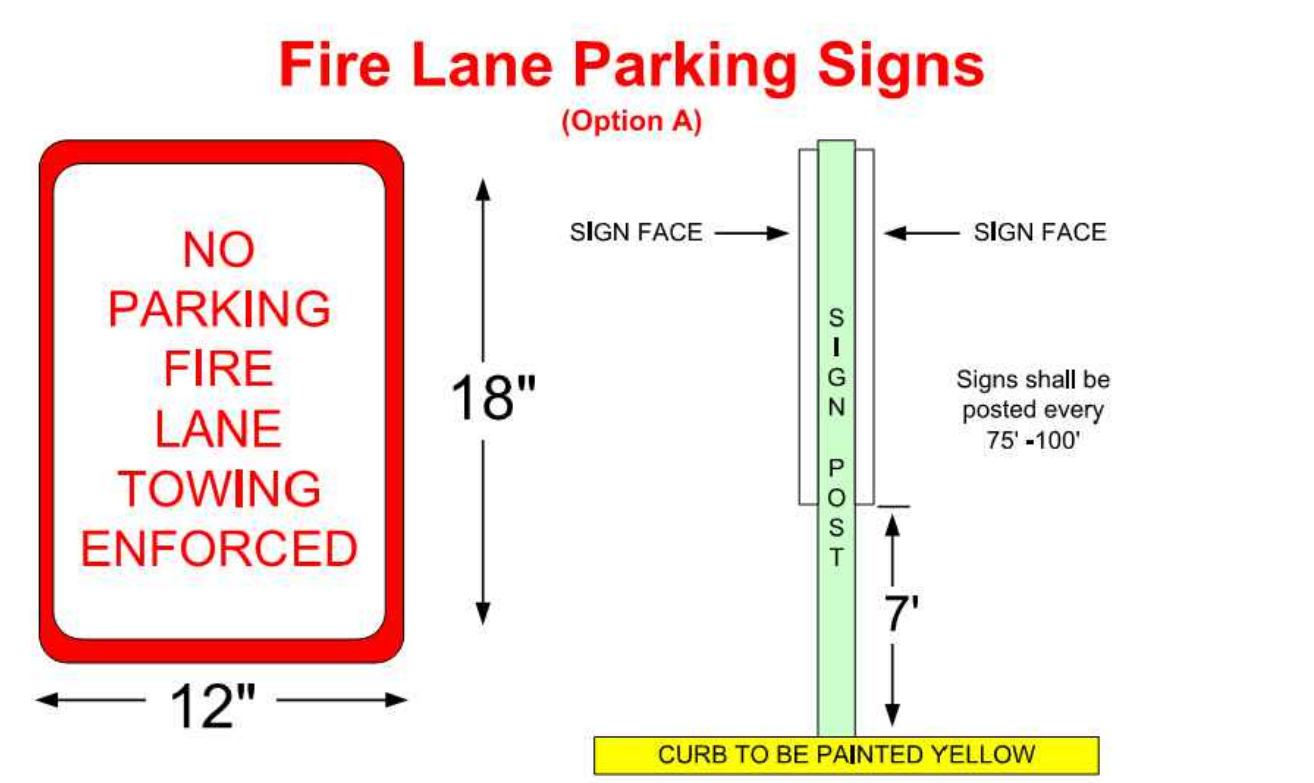


SIGNAGE NOTES

- ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF EACH OF THE FOLLOWING AND ANY REVISION THERETO:
 - MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - THE VIRGINIA SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.
- SIGN LOCATIONS ARE APPROXIMATE AND ARE TO BE MODIFIED IN THE FIELD TO AVOID CONFLICT WITH UNDERGROUND UTILITIES OR OTHER OBSTRUCTIONS, AND TO COMPLY WITH STANDARDS REFERENCED IN NOTE 1 ABOVE.
- ALL SIGNS OUTSIDE OF VDOT ROW SHALL BE INSTALLED ON STEEL POST 1.5" DIA. GALVANIZED SET IN MIN. 2' OF CONCRETE DEPTH AND 1' DIA. OF CONCRETE.



STRIPING AND SIGNAGE NOTES & DETAILS
 NO SCALE



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YOUR VISION ACHIEVED THROUGH OURS.

DATE: 8/21/2023
DRAWN BY: J. ALLESSIE
DESIGNED BY: M. HETZLER
CHECKED BY: K. HALPAUS
SCALE: NONE

TIMMONS GROUP
FORGE LOGISTICS BUILDING TWO
NEW KENT COUNTY - VIRGINIA
SITE NOTES AND DETAILS
JOB NO. 58776
SHEET NO. C2.10

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NOTES:

- THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
- CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
- CURB HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) WILL BE PAID FOR AS RADIAL CURB.
- THE DEPTH OF CURB MAY BE REDUCED AS MUCH AS 3" (2" DEPTH) OR INCREASED AS MUCH AS 3" ON DEPTH IN ORDER THAT THE BOTTOM OF CURB WILL CONFORM WITH THE TOP OF A CURB OF THE PREVIOUS SUBSTRUCTURE. OTHERWISE, THE DEPTH IS TO BE AS SHOWN. NO ADJUSTMENT IN THE PRICE IS TO BE MADE FOR A DECREASE OR AN INCREASE IN DEPTH.
- CG-2 IS TO BE USED ON ROADWAYS MEETING THE REQUIREMENTS FOR CG-4 AS SHOWN IN APPENDIX A OF THE VDOT ROAD DESIGN MANUAL, IN THE SECTION ON GS URBAN STANDARDS.

ACCEPTABLE ALTERNATIVE IF CURB IS EXTRUDED

SPECIFICATION REFERENCE
105 502

STANDARD 6" CURB
VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT ROAD AND BRIDGE STANDARDS
REVISION DATE: SHEET 1 OF 1
203.01

GENERAL NOTES:

- THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOMES.
- DETECTABLE WARNING TO BE CLASS A-1 CONCRETE (CLASS A-4 IF PRECAST) WITH SLIP RESISTANT INTEGRAL SURFACE COVERING THE FULL WIDTH OF THE RAMP FLOOR BY 2' FROM LENGTH IN THE DIRECTION OF PEDESTRIAN TRAVEL. OTHER TYPES OF MATERIAL WITH THE TRUNCATED DOMES DETECTABLE WARNING MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
- SLOPING SIDES OF CURB RAMP MAY BE POURED MONOLITHICALLY WITH RAMP FLOOR OR BY USING PERMISSIBLE CONSTRUCTION JOINT WITH REQUIRED BARS.
- IF RAMP FLOOR IS PRECAST, HOLES MUST BE PROVIDED FOR DOWEL BARS SO THAT ADJOINING FLARED SIDES CAN BE CAST IN PLACE AFTER PLACEMENT OF PRECAST RAMP FLOOR. PRECAST CONCRETE SHALL BE CLASS A-4.
- REQUIRED BARS ARE TO BE NO. 5 X 8' PLACED 1' CENTER TO CENTER ALONG BOTH SIDES OF THE RAMP FLOOR. MINIMUM DEPTH OF RAMP FLOOR MINIMUM CONCRETE COVER 1/2".
- CURB / CURB AND GUTTER SLOPE TRANSITIONS ADJACENT TO CURB RAMP ARE INCLUDED IN PAYMENT FOR CURB / CURB AND GUTTER.
- CURB RAMP ARE TO BE LOCATED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THEY ARE TO BE PROVIDED AT INTERSECTIONS WHEREVER AN UNDESIRABLE ROUTE WITHIN THE RIGHT OF WAY OF A HIGHWAY FACILITY CROSSES A CURB REGARDLESS OF WHETHER SIDEWALK IS EXISTING, PROPOSED, OR NONEXISTENT. THEY MUST BE LOCATED WITHIN PEDESTRIAN CROSSWALKS AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER, AND SHOULD NOT BE LOCATED BEHIND VEHICLE STOP LINES, EXISTING LIGHT POLES, FIRE HYDRANTS, DRIP INLETS, ETC. ACCESSIBLE ROUTES PROVIDE A CONTINUOUS UNRESTRICTED STABLE FIRM AND SLIP RESISTANT PATH CONNECTING ALL ACCESSIBLE ELEMENTS OF A FACILITY THAT CAN BE APPROACHED, ENTERED AND USED BY PEDESTRIANS.
- RAMP MAY BE PLACED ON RADIAL OR TANGENTIAL SECTIONS PROVIDED THAT THE CURB OPENING IS PLACED WITHIN THE LIMITS OF THE CROSSWALK AND THAT THE SLOPE AT THE CONNECTION OF THE CURB OPENING IS ACCOMMODATE THE TURNING REQUIREMENTS OF ANTICIPATED HEAVY TRUCK TRAFFIC. REFER TO STANDARD CG-13, COMMERCIAL ENTRANCE (HEAVY TRUCK TRAFFIC) FOR CONCRETE DEPTH.
- WHEN CURB RAMP ARE USED IN CONJUNCTION WITH A SHARED USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH.
- WHEN ONLY ONE CURB RAMP IS PROVIDED FOR TWO CROSSINGS (IRREGULAR), A 4' x 4' LANDING AREA SHALL BE PROVIDED TO MANEUVER A WHEELCHAIR INTO THE CROSSWALK WITHOUT GOING INTO THE TRAVELWAY. THIS 4' x 4' LANDING AREA MAY INCLUDE THE GUTTER PAN.
- ALL CASES WHERE CURB RAMP INTERSECT A RADIAL SECTION OF CURB AT ENTRANCES OR STREET CONNECTIONS, THE DETECTABLE WARNING SURFACE SHALL HAVE A FACTORY RADIUS OR BE FIELD MODIFIED AS RECOMMENDED BY THE MANUFACTURER TO MATCH THE BACK OF CURB.

TYPICAL DESIGN

SECTION A-A

SECTION B-B

TYPE A PERPENDICULAR

TYPE A WITH BUFFER STRIP

TYPE C PARALLEL & PERPENDICULAR

DETECTABLE WARNING INSTALLED ON A RADIUS

TRUNCATED DOME DETAIL

DETECTABLE WARNING DETAIL

NOTES: FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.
THIS DESIGN TO BE USED FOR CONSTRUCTION THAT INCORPORATES WIDER SIDEWALK LANDING (4' WIDE) REQUIRED AT TOP OF CURB RAMP. MINIMUM CURB RAMP LENGTH 8 FEET FOR NEW CONSTRUCTION, 6 FEET FOR ALTERATIONS.

SPECIFICATION REFERENCE
105 502

CG-12 DETECTABLE WARNING SURFACE
TYPE A (PERPENDICULAR) APPLICATION
VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT ROAD AND BRIDGE STANDARDS
REVISION DATE: SHEET 2 OF 5
7/11 203.06

NOTES:

- THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
- CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
- COMBINATION CURB & GUTTER HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) SHALL BE PAID FOR AS RADIAL COMBINATION CURB & GUTTER.
- FOR USE WITH STABILIZED OPEN-GRADED DRAINAGE LAYERS, THE BOTTOM OF THE CURB & GUTTER SHALL BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUBBASE COURSES AND TO THE DEPTH OF THE PAVEMENT.
- ALLOWABLE CRITERIA FOR THE USE OF CG-6 IS BASED ON ROADWAY CLASSIFICATION AND DESIGN SPEED AS SHOWN IN APPENDIX A OF THE ROAD DESIGN MANUAL IN THE SECTION ON GS URBAN STANDARDS.

SPECIFICATION REFERENCE
105 502

COMBINATION 6" CURB AND GUTTER
VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT ROAD AND BRIDGE STANDARDS
REVISION DATE: SHEET 1 OF 1
201.03

NOTES: FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.
THE SELECTION OF CURB TYPE AND THE CONFIGURATION OF THE BUFFER STRIP MAY VARY TO MEET EXISTING FIELD CONDITIONS AND ROADWAY GEOMETRIES PROVIDING THE DIMENSIONS AND SLOPES ARE AS NOTED.
THIS COMBINED (PARALLEL & PERPENDICULAR) DESIGN CAN BE USED WITH ADJOINING BUFFER STRIP LANDING AT BOTTOM OF TWO SLOPING SIDES WITH 5' x 5' MIN. DIMENSIONS. THE SHORT PERPENDICULAR RUN TO THE STREET CAN BE PROTECTED BY A LANDSCAPED SETBACK OR CONNECTED TO THE SIDEWALK WITH A WARPED SURFACE.

TANGENT PLAN

SECTION A-A

TYPE C PARALLEL & PERPENDICULAR APPLICATION

ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	
	4" CURB	6" CURB
0	2	4
1	2	5
2	3	5
3	3	6
4	4	8
5	5	10
6	7	14
7	13	15
8	15	15

THE REQUIRED LENGTH OF A PARALLEL RAMP IS LIMITED TO 15 FEET, REGARDLESS OF THE SLOPE.

SPECIFICATION REFERENCE
105 502

CG-12 DETECTABLE WARNING SURFACE
TYPE C (PARALLEL & PERPENDICULAR) APPLICATION
VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT ROAD AND BRIDGE STANDARDS
REVISION DATE: SHEET 4 OF 5
7/11 203.08

GENERAL NOTES:

- THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOMES.
- DETECTABLE WARNING TO BE CLASS A-1 CONCRETE (CLASS A-4 IF PRECAST) WITH SLIP RESISTANT INTEGRAL SURFACE COVERING THE FULL WIDTH OF THE RAMP FLOOR BY 2' FROM LENGTH IN THE DIRECTION OF PEDESTRIAN TRAVEL. OTHER TYPES OF MATERIAL WITH THE TRUNCATED DOMES DETECTABLE WARNING MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
- SLOPING SIDES OF CURB RAMP MAY BE POURED MONOLITHICALLY WITH RAMP FLOOR OR BY USING PERMISSIBLE CONSTRUCTION JOINT WITH REQUIRED BARS.
- IF RAMP FLOOR IS PRECAST, HOLES MUST BE PROVIDED FOR DOWEL BARS SO THAT ADJOINING FLARED SIDES CAN BE CAST IN PLACE AFTER PLACEMENT OF PRECAST RAMP FLOOR. PRECAST CONCRETE SHALL BE CLASS A-4.
- REQUIRED BARS ARE TO BE NO. 5 X 8' PLACED 1' CENTER TO CENTER ALONG BOTH SIDES OF THE RAMP FLOOR. MINIMUM DEPTH OF RAMP FLOOR MINIMUM CONCRETE COVER 1/2".
- CURB / CURB AND GUTTER SLOPE TRANSITIONS ADJACENT TO CURB RAMP ARE INCLUDED IN PAYMENT FOR CURB / CURB AND GUTTER.
- CURB RAMP ARE TO BE LOCATED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THEY ARE TO BE PROVIDED AT INTERSECTIONS WHEREVER AN UNDESIRABLE ROUTE WITHIN THE RIGHT OF WAY OF A HIGHWAY FACILITY CROSSES A CURB REGARDLESS OF WHETHER SIDEWALK IS EXISTING, PROPOSED, OR NONEXISTENT. THEY MUST BE LOCATED WITHIN PEDESTRIAN CROSSWALKS AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER, AND SHOULD NOT BE LOCATED BEHIND VEHICLE STOP LINES, EXISTING LIGHT POLES, FIRE HYDRANTS, DRIP INLETS, ETC. ACCESSIBLE ROUTES PROVIDE A CONTINUOUS UNRESTRICTED STABLE FIRM AND SLIP RESISTANT PATH CONNECTING ALL ACCESSIBLE ELEMENTS OF A FACILITY THAT CAN BE APPROACHED, ENTERED AND USED BY PEDESTRIANS.
- RAMP MAY BE PLACED ON RADIAL OR TANGENTIAL SECTIONS PROVIDED THAT THE CURB OPENING IS PLACED WITHIN THE LIMITS OF THE CROSSWALK AND THAT THE SLOPE AT THE CONNECTION OF THE CURB OPENING IS ACCOMMODATE THE TURNING REQUIREMENTS OF ANTICIPATED HEAVY TRUCK TRAFFIC. REFER TO STANDARD CG-13, COMMERCIAL ENTRANCE (HEAVY TRUCK TRAFFIC) FOR CONCRETE DEPTH.
- WHEN CURB RAMP ARE USED IN CONJUNCTION WITH A SHARED USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH.
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- ALL CASES WHERE CURB RAMP INTERSECT A RADIAL SECTION OF CURB AT ENTRANCES OR STREET CONNECTIONS, THE DETECTABLE WARNING SURFACE SHALL HAVE A FACTORY RADIUS OR BE FIELD MODIFIED AS RECOMMENDED BY THE MANUFACTURER TO MATCH THE BACK OF CURB.

TYPICAL DESIGN

SECTION A-A

SECTION B-B

TYPE A PERPENDICULAR

TYPE B PARALLEL

TYPE C PARALLEL & PERPENDICULAR

DETECTABLE WARNING INSTALLED ON A RADIUS

TRUNCATED DOME DETAIL

DETECTABLE WARNING DETAIL

SPECIFICATION REFERENCE
105 502

CG-12 DETECTABLE WARNING SURFACE
(GENERAL NOTES)
VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT ROAD AND BRIDGE STANDARDS
REVISION DATE: SHEET 2 OF 5
203.05 7/11

SEWER

- SAN - EXISTING SANITARY SEWER
- SAN - SANITARY SEWER
- 1 N 7605.80 E 9378.25 - SANITARY MANHOLE NUMBER W/ COORDINATE LOCATION
- ⊙ - EX SANITARY MANHOLE
- ⊙ - SANITARY MANHOLE
- ⊙ - EXISTING CLEAN OUT
- ⊙ - CLEAN OUT

WATER

- W - EXISTING WATER LINE
- W - WATER LINE
- ⊙ - BUTTERFLY VALVE
- ⊙ - GATE VALVE
- ⊙ - POST INDICATOR VALVE
- ⊙ - EXISTING WATER METER
- ⊙ - WATER METER
- ⊙ - EXISTING FIRE HYDRANT
- ⊙ - FIRE HYDRANT
- ⊙ - WATER LINE REDUCER
- ⊙ - EX WATER LINE PLUG
- ⊙ - WATER LINE PLUG
- ⊙ - WATER LINE CROSS
- ⊙ - WATER LINE TEE
- ⊙ - FIRE DEPT CONNECTION
- ⊙ - WATER SPIGOT
- ⊙ - EXISTING WELL CASING

MISCELLANEOUS UTILITIES

- ⊙ - EXISTING LIGHT POLE
- ⊙ - EXISTING YARD LIGHT
- ⊙ - EXISTING GROUND LIGHT
- ⊙ - PROPOSED LIGHT POLES
- ⊙ - EXISTING UTILITY POLE
- ⊙ - UTILITY POLE
- ⊙ - EXISTING GUY WIRE
- ⊙ - EXISTING ELECTRIC METER
- ⊙ - EXISTING OVERHEAD ELECTRIC
- ⊙ - OVERHEAD ELECTRIC
- ⊙ - EX UNDERGROUND ELECT LINE
- ⊙ - UNDERGROUND ELECTRIC LINE
- ⊙ - EXISTING TELEPHONE PEDESTAL
- ⊙ - EXISTING TELEPHONE MANHOLE
- ⊙ - EX OVERHEAD TELEPHONE LINE
- ⊙ - OVERHEAD TELEPHONE LINE
- ⊙ - EX UNDERGROUND TELEPHONE LINE
- ⊙ - UNDERGROUND TELEPHONE LINE
- ⊙ - EX OVERHEAD FIBER OPTIC LINE
- ⊙ - OVERHEAD FIBER OPTIC LINE
- ⊙ - EX UNDERGROUND FIBER OPTIC LINE
- ⊙ - UNDERGROUND FIBER OPTIC LINE
- ⊙ - EX CABLE TV PEDESTAL
- ⊙ - EX OVERHEAD CABLE TV LINE
- ⊙ - OVERHEAD CABLE TV LINE
- ⊙ - EX UNDERGROUND CABLE TV
- ⊙ - UNDERGROUND CABLE TV LINE
- ⊙ - COMBINED POWER/CATV
- ⊙ - COMBINED POWER, TELE, CATV
- ⊙ - COMBINED POWER, TELEPHONE
- ⊙ - COMBINED TELEPHONE, CATV
- ⊙ - EXISTING GAS METER
- ⊙ - EXISTING GAS VALVE
- ⊙ - EXISTING GAS LINE
- ⊙ - GAS LINE

SITE

- ⊙ - EXISTING STORM SEWER
- ⊙ - STORM SEWER
- ⊙ - EX DROP INLET
- ⊙ - DROP INLET & STRUCTURE #
- ⊙ - EX STORM SEWER MANHOLE
- ⊙ - STORM SEWER MANHOLE
- ⊙ - EX ROOF DRAIN DOWNSPOUT
- ⊙ - ROOF DRAIN DOWNSPOUT
- ⊙ - EXISTING CURB
- ⊙ - CURB
- ⊙ - EXISTING CURB & GUTTER
- ⊙ - CURB & GUTTER
- ⊙ - PROPERTY LINE
- ⊙ - BENCH MARK
- ⊙ - APPROX BORING LOCATION
- ⊙ - LIMITS OF CONSTRUCTION
- ⊙ - EXISTING TREE LINE
- ⊙ - CLEARING LIMITS
- ⊙ - EXISTING SHRUB
- ⊙ - EXISTING TREE
- ⊙ - EXISTING FENCE
- ⊙ - FENCE
- ⊙ - EXISTING CONTOUR
- ⊙ - CONTOUR
- ⊙ - SPOT ELEVATION
- ⊙ - CIL SWALE
- ⊙ - EXISTING SIGN
- ⊙ - SIGN
- ⊙ - BOLLARD
- ⊙ - EXISTING FLAG POLE
- ⊙ - PROP. MARKER FOUND / ROD FOUND
- ⊙ - PIPE FOUND
- ⊙ - MONUMENT FOUND

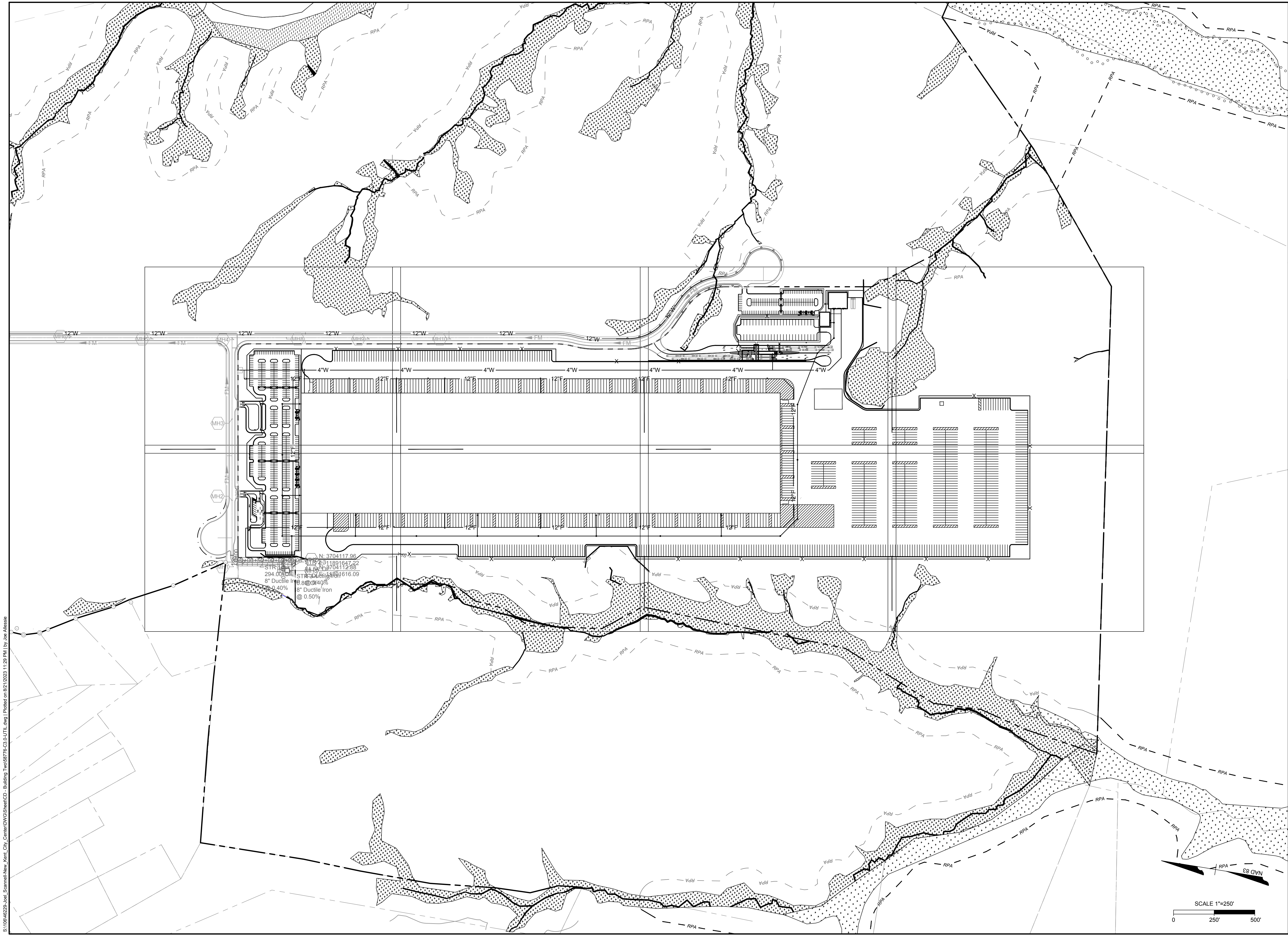
SEWER

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- ⊙ - WATER LINE CROSS
- ⊙ - WATER LINE TEE
- ⊙ - FIRE DEPT CONNECTION
- ⊙ - WATER SPIGOT
- ⊙ - EXISTING WELL CASING

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DATE	REVISION DESCRIPTION
8/21/2023 <td></td>	

DRAWN BY
J. ALLESSIE

DESIGNED BY
M. HETZLER

CHECKED BY
K. HALPAUS

SCALE
1" = 250'

FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA
UTILITY PLAN OVERALL

JOB NO.
58776

SHEET NO.
C3.0

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DESIGNED BY M. HETZLER
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SCALE 1" = 40'

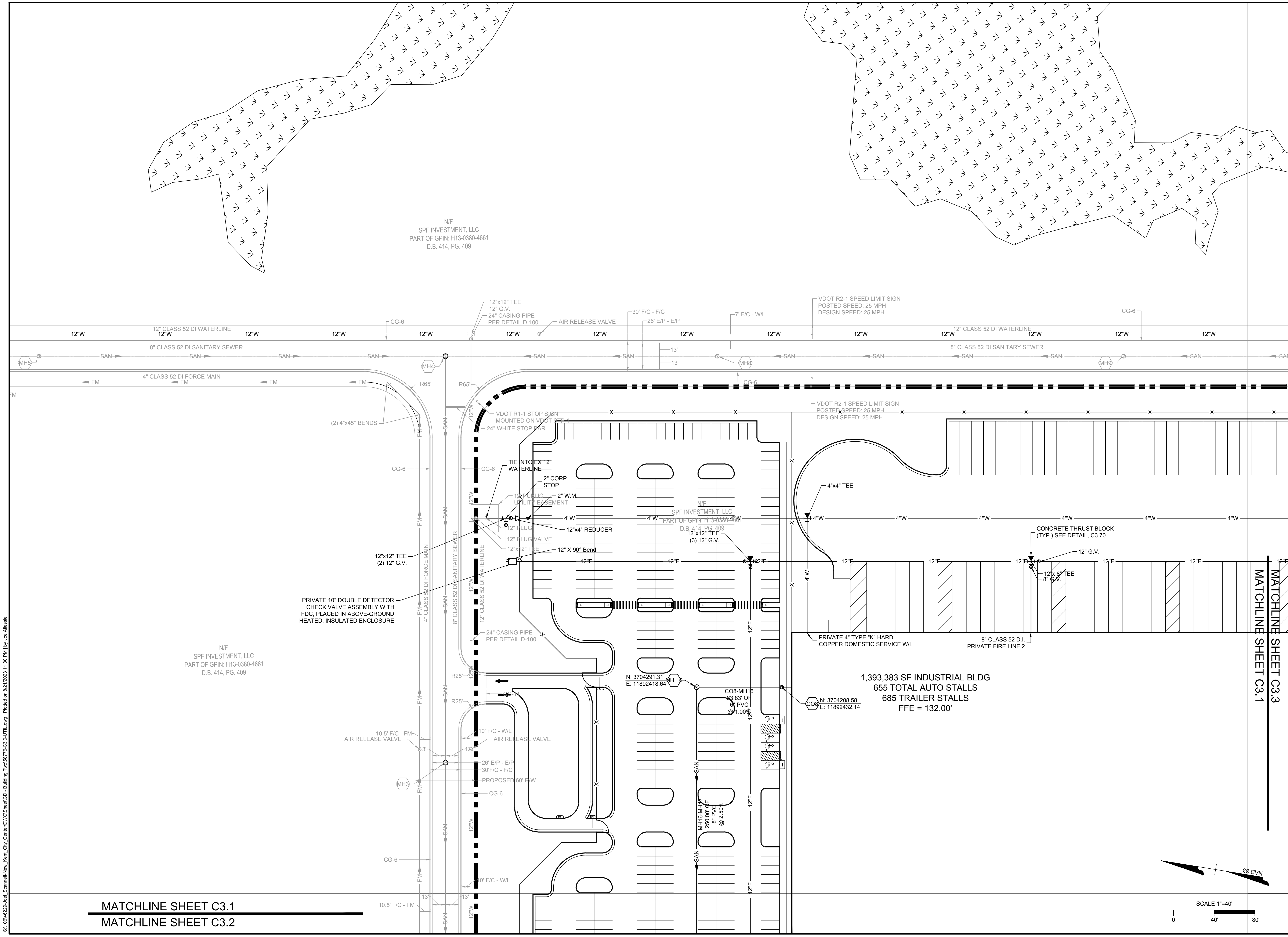
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FORGE LOGISTICS BUILDING TWO

NEW KENT COUNTY - VIRGINIA
UTILITY PLAN

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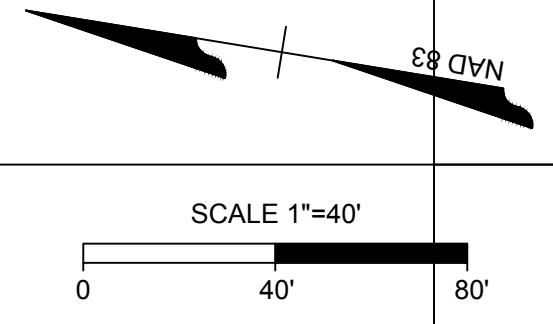


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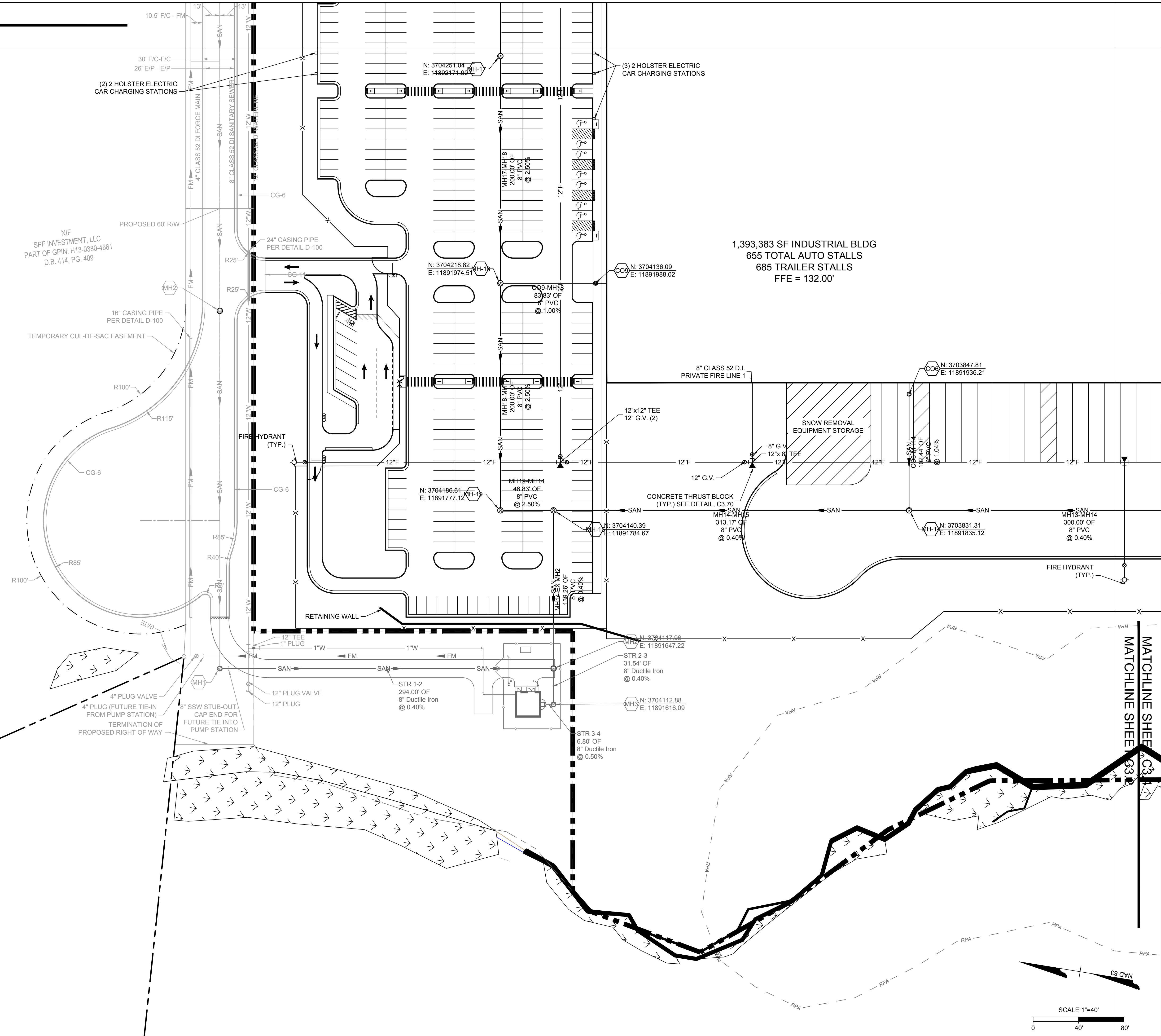
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D.B. 414, PG. 409

1,393,383 SF INDUSTRIAL BLDG
655 TOTAL AUTO STALLS
685 TRAILER STALLS
FFE = 132.00'



MATCHLINE SHEET C3.1
MATCHLINE SHEET C3.2

MATCHLINE SHEET C3.1
MATCHLINE SHEET C3.2



N/F
SPF INVESTMENT, LLC
PART OF GPIN: H13-0380-4661
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1,393,383 SF INDUSTRIAL BLDG
655 TOTAL AUTO STALLS
685 TRAILER STALLS
FFE = 132.00'

N/F
KAY J. BURNETT & JAMES E. BROWN JR
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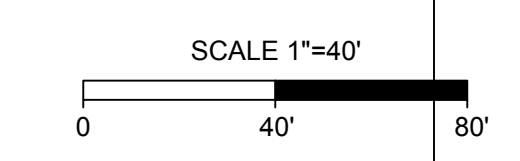
DATE
8/21/2023
DRAWN BY
J. ALLESSIE
DESIGNED BY
M. HETZLER
CHECKED BY
K. HALPAUS

SCALE
1" = 40'

TIMMONS GROUP

FORGE LOGISTICS BUILDING TWO
NEW KENT COUNTY - VIRGINIA
UTILITY PLAN

JOB NO.
58776
SHEET NO.
C3.2



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DESIGNED BY
 M. HETZLER

CHECKED BY
 K. HALPAUS

SCALE
 1" = 40'

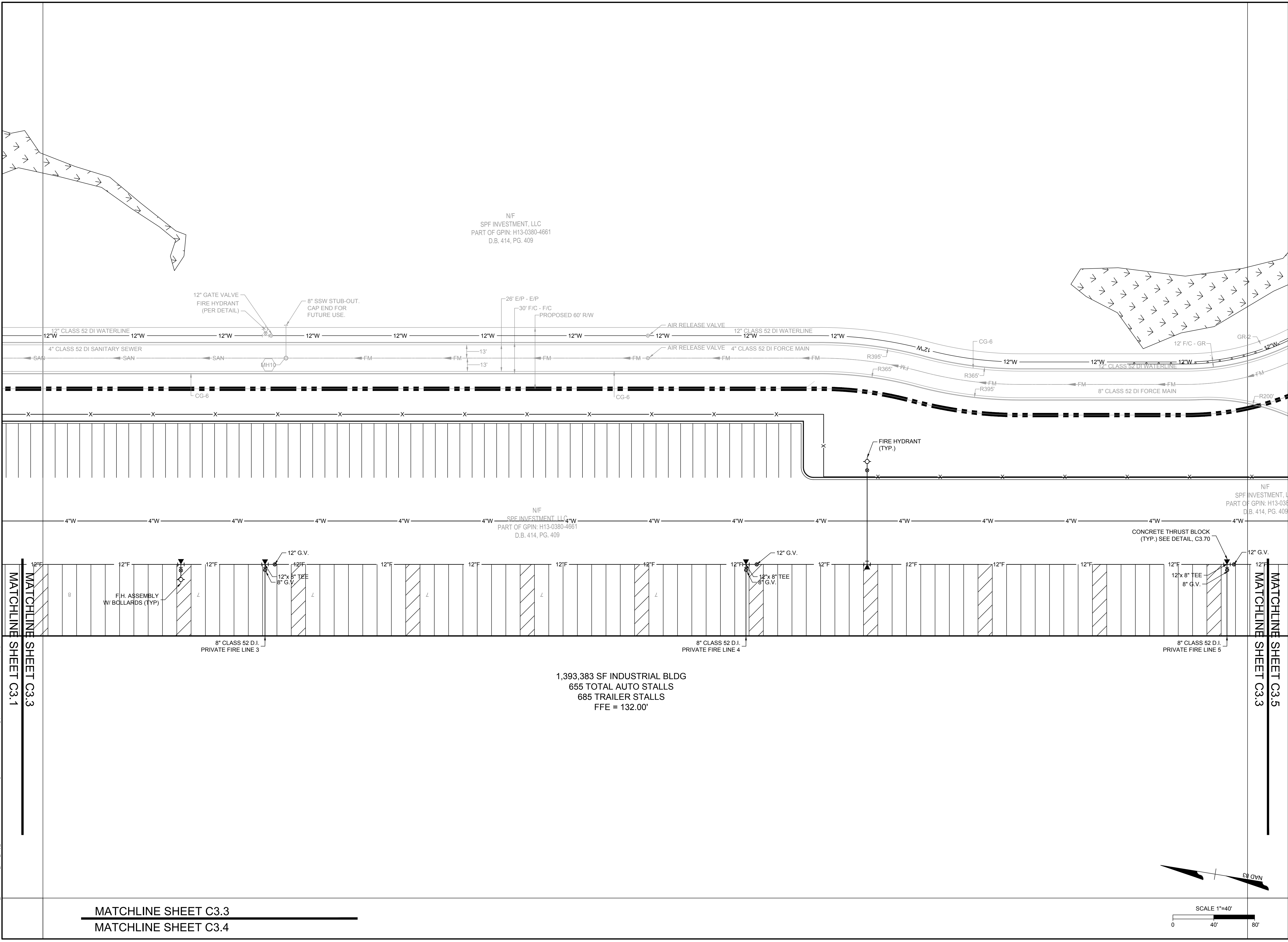
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DATE
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FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA

UTILITY PLAN

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MATCHLINE SHEET C3.3
 MATCHLINE SHEET C3.4

1,393,383 SF INDUSTRIAL BLDG
 655 TOTAL AUTO STALLS
 685 TRAILER STALLS
 FFE = 132.00'



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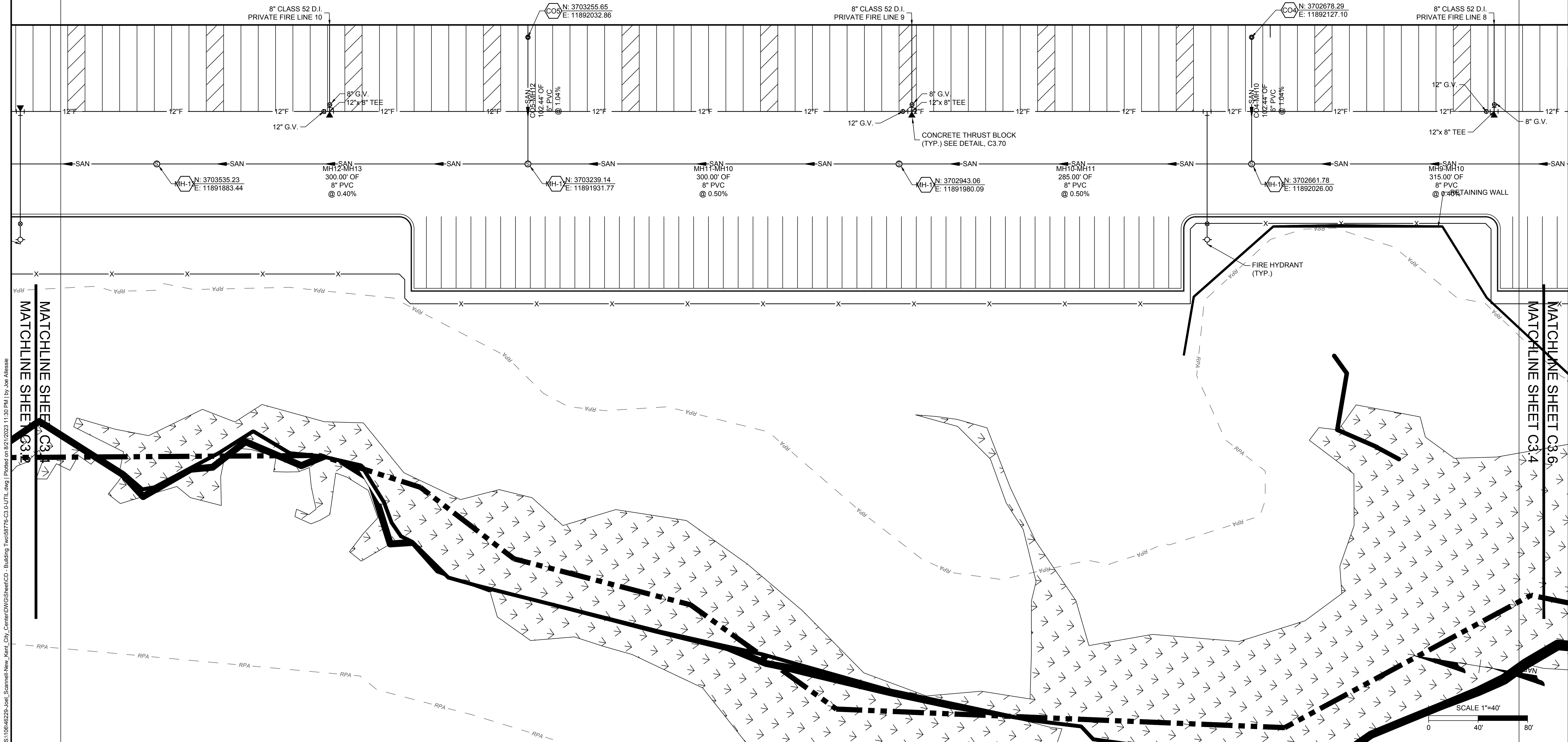
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DATE: 8/21/2023
 DRAWN BY: J. ALLESSIE
 DESIGNED BY: M. HETZLER
 CHECKED BY: K. HALPAUS

SCALE: 1" = 40'

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 FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA
 UTILITY PLAN

JOB NO. 58776
 SHEET NO. C3.4



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8/21/2023 <td></td>	

DATE
8/21/2023

DRAWN BY
J. ALLESIE

DESIGNED BY
M. HETZLER

CHECKED BY
K. HALPAUS

SCALE
1" = 40'

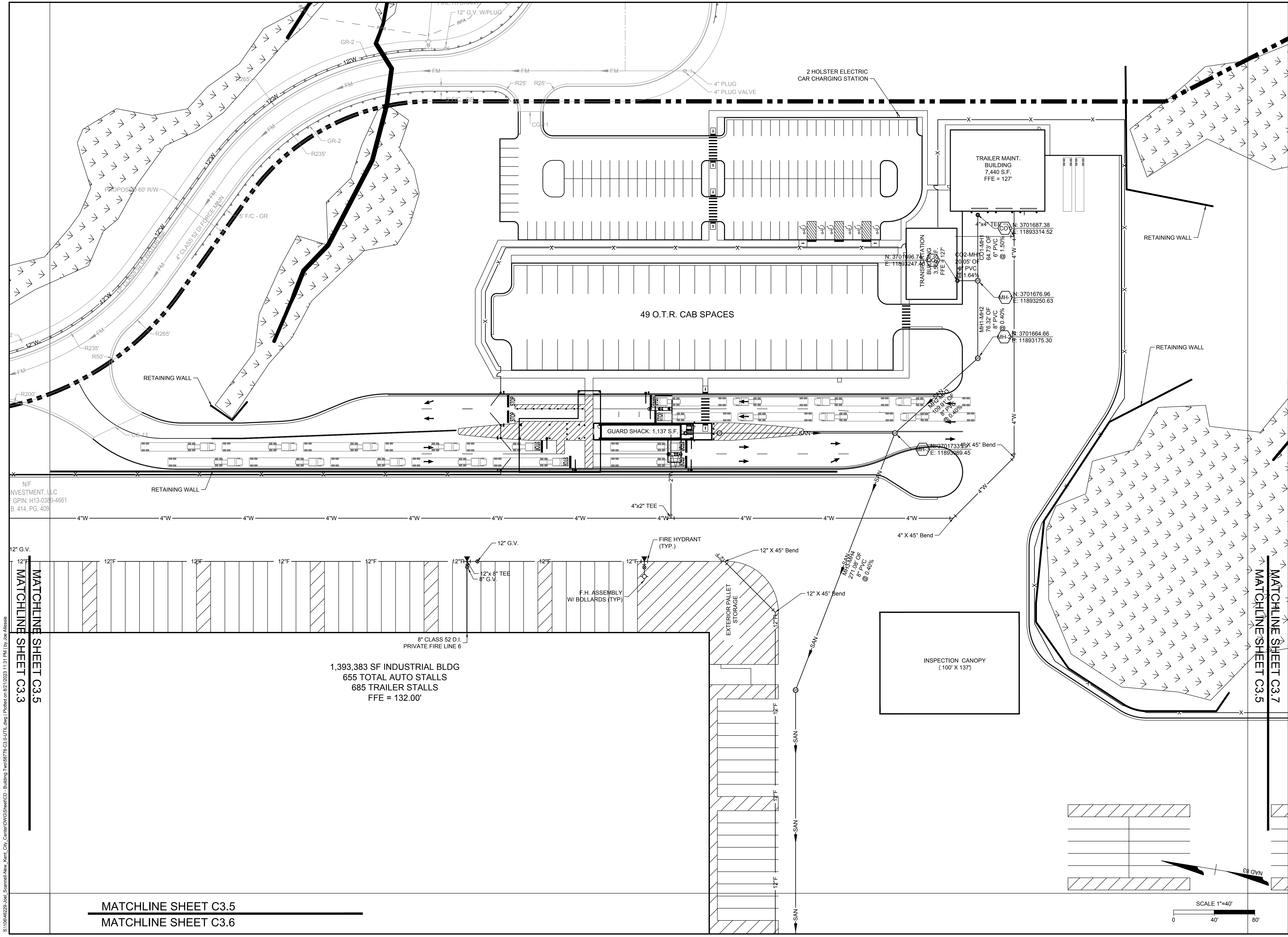
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NEW KENT COUNTY - VIRGINIA

UTILITY PLAN

JOB NO.
58776

SHEET NO.
C3.5



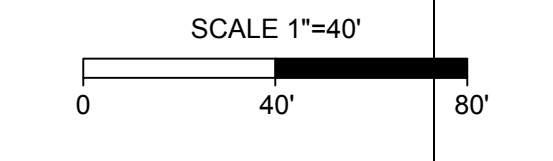
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MATCHLINE SHEET C3.5
MATCHLINE SHEET C3.3

MATCHLINE SHEET C3.7
MATCHLINE SHEET C3.5

MATCHLINE SHEET C3.5
MATCHLINE SHEET C3.6

1,393,383 SF INDUSTRIAL BLDG
655 TOTAL AUTO STALLS
685 TRAILER STALLS
FFE = 132.00'

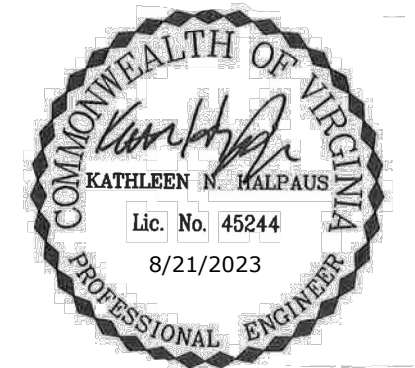
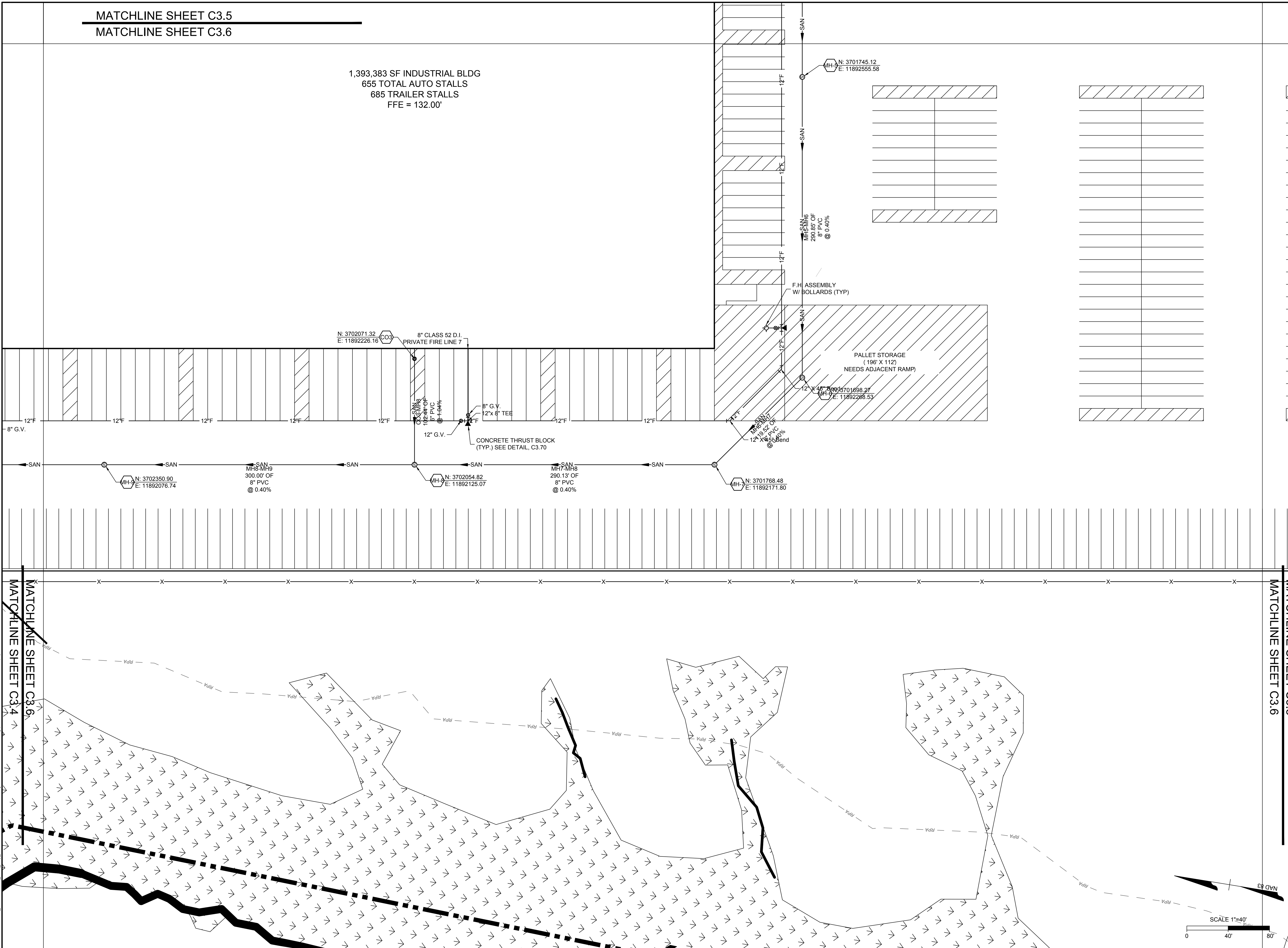


S:\10646229-lobl_Scammell-New_Kent_City_Center\DWGS\SheetCD - Building_Two\58776_C3.0\UTIL.dwg | Printed on 8/21/2023 11:31 PM | by Job Allesie

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MATCHLINE SHEET C3.5
MATCHLINE SHEET C3.6

1,393,383 SF INDUSTRIAL BLDG
655 TOTAL AUTO STALLS
685 TRAILER STALLS
FFE = 132.00'



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DATE: 8/21/2023
DRAWN BY: J. ALLESIE
DESIGNED BY: M. HETZLER
CHECKED BY: K. HALPAUS

SCALE: 1" = 40'

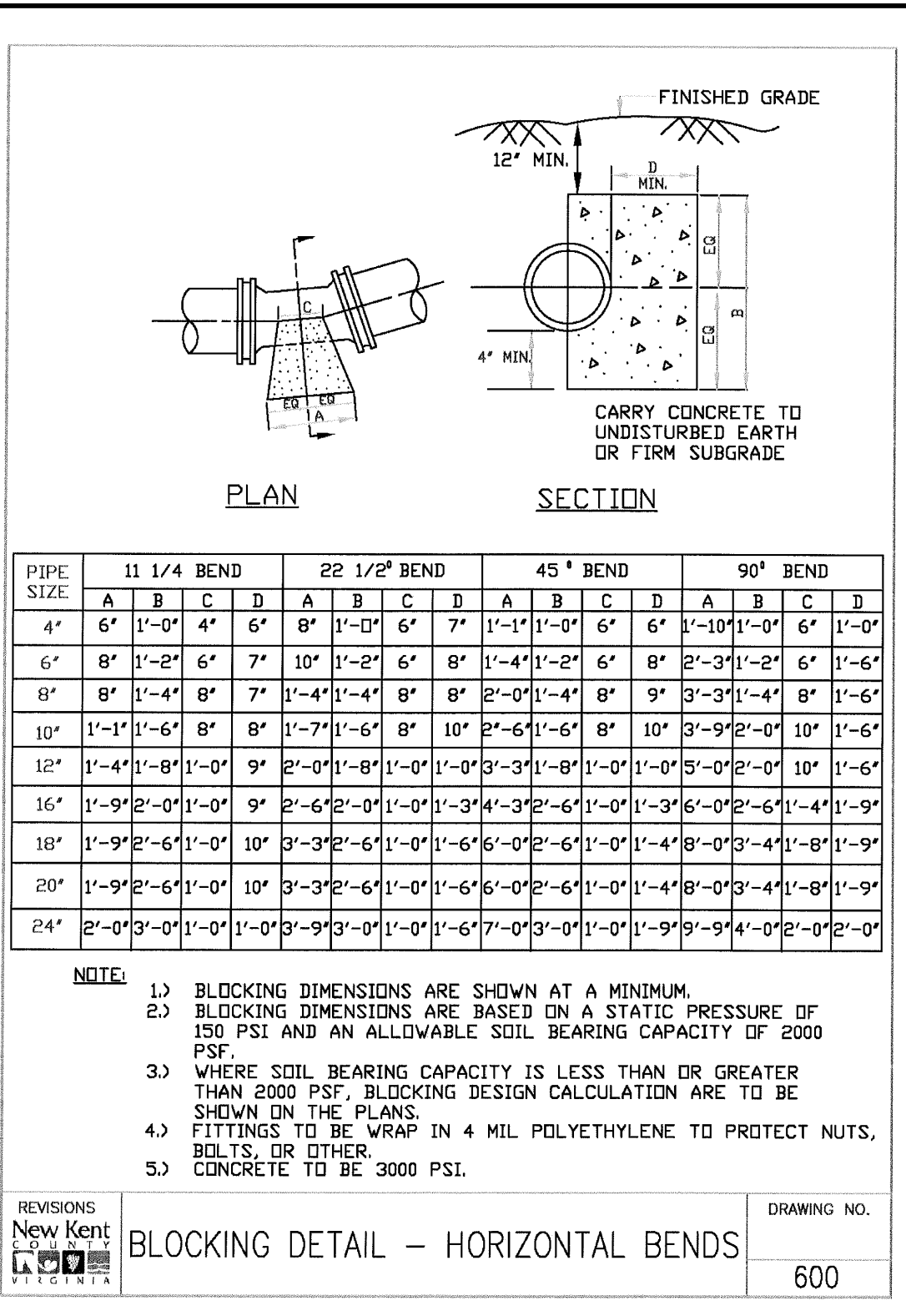
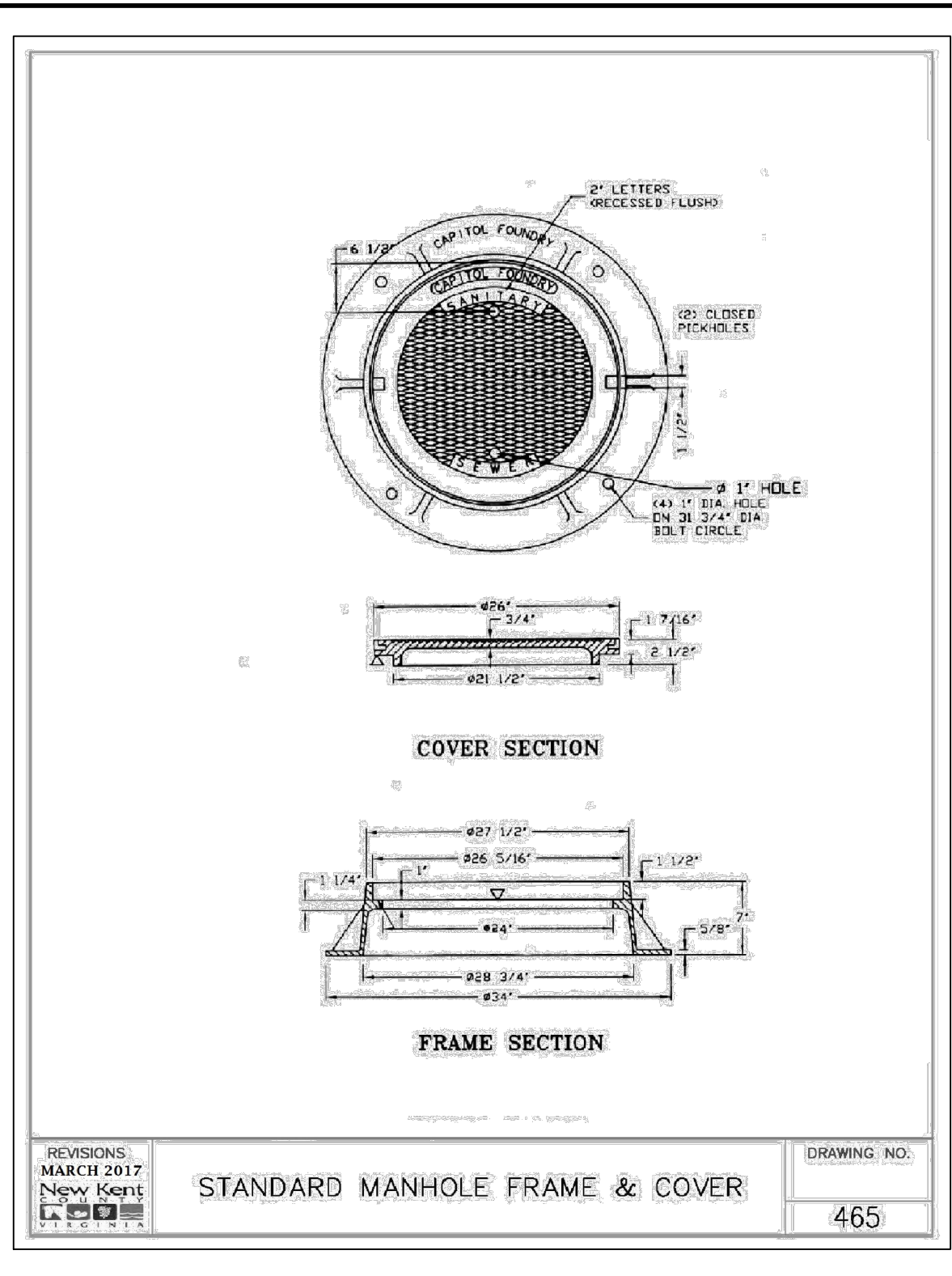
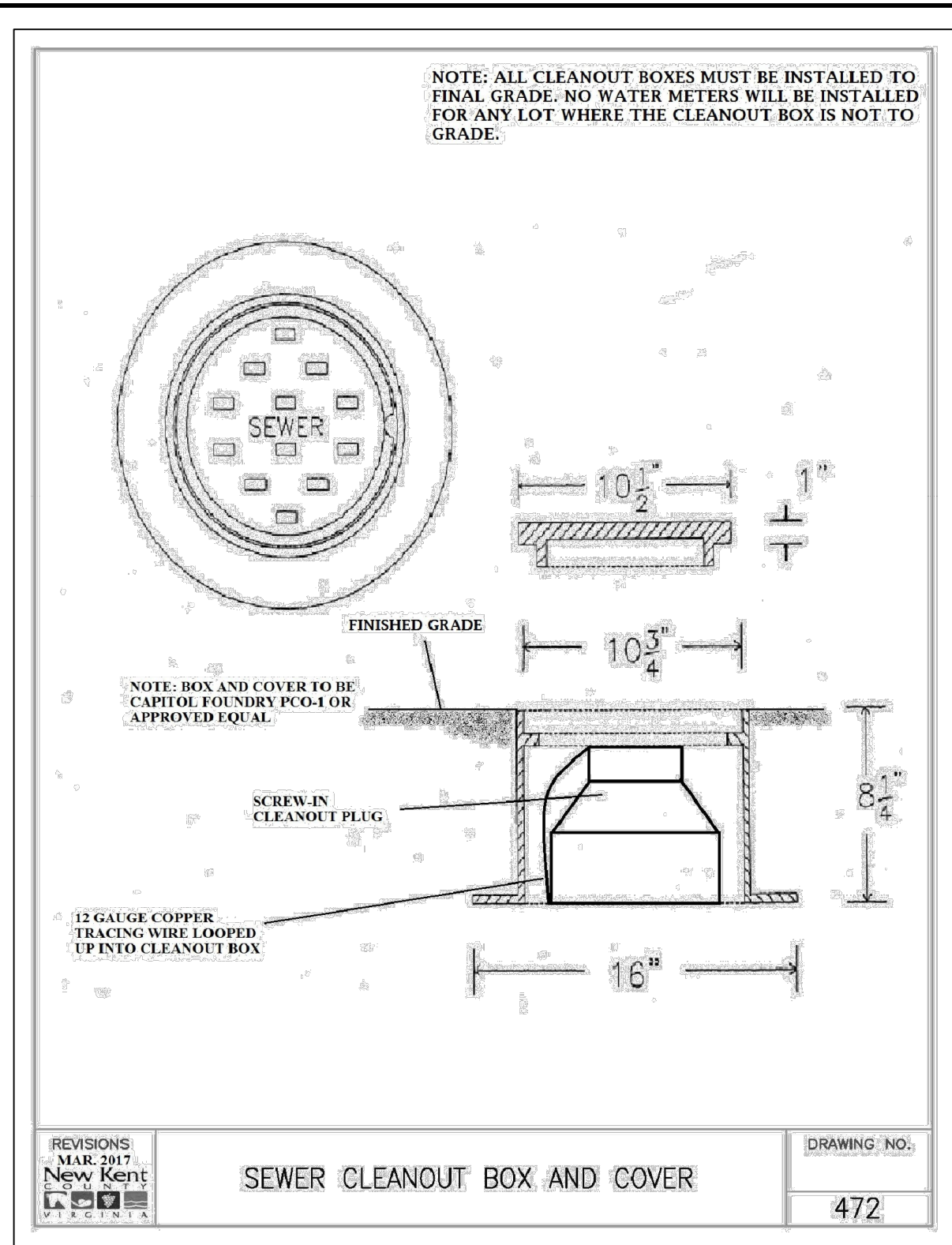
TIMMONS GROUP

FORGE LOGISTICS BUILDING TWO
NEW KENT COUNTY - VIRGINIA
UTILITY PLAN

JOB NO. 58776
SHEET NO. C3.6

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PIPE RESTRAINT LENGTH (FT)

PIPE SIZE	REDUCER - LARGE SIZE					TEES - BRANCH LINE SIZE							
	4"	6"	8"	10"	12"	4"	6"	8"	10"	12"			
4"	15	28	48	67	84	101	125	11	6	2	1	1	1
6"	17	40	61	80	97	122	23	19	16	9	3	1	1
8"	30	53	73	92	117	32	29	23	17	11	6	1	1
12"	31	56	77	106	117	45	40	36	31	24	15	8	1
16"	31	57	90	106	117	62	57	53	48	39	24	15	8
20"	32	70	106	117	117	78	74	68	63	54	39	24	15
24"	32	70	106	117	117	94	88	84	88	74	54	39	24
30"	32	70	106	117	117	117	117	117	117	117	117	117	117

HORIZONTAL PIPE RESTRAINT LENGTH (FT)

PIPE SIZE	11-1/4" BEND		22-1/2" BEND		45° BEND		90° BEND		DEAD END	
	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER
4"	2	3	3	7	5	21	15	21	15	21
6"	3	5	5	9	9	22	28	28	28	28
8"	3	6	6	12	12	28	38	38	38	38
12"	4	8	8	17	17	40	55	55	55	55
16"	6	11	11	22	22	52	72	72	72	72
20"	7	13	13	26	26	63	89	89	89	89
24"	8	15	15	31	31	74	105	105	105	105
30"	9	18	18	37	37	89	128	128	128	128

VERTICAL PIPE RESTRAINT LENGTH (FT)

PIPE SIZE	11-1/4" BEND		22-1/2" BEND		45° BEND		90° BEND	
	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER
4"	3	2	6	3	13	6	N/A	N/A
6"	5	2	9	4	18	8	N/A	N/A
8"	6	3	11	5	23	10	N/A	N/A
12"	8	4	16	7	33	14	N/A	N/A
16"	10	5	20	9	42	18	N/A	N/A
20"	13	6	25	11	51	22	N/A	N/A
24"	15	6	29	13	60	26	N/A	N/A
30"	18	8	35	15	73	31	N/A	N/A

DI RESTRAINT LENGTH TABLE

REVISIONS: New Kent
DRAWING NO. 805

MINIMUM TEST TIME TWO HOURS

WATER LINE TEST BASED ON 150 PSI		WATER LINE TEST BASED ON 150 PSI	
SIZE	MAX. ALLOWABLE LEAKAGE	SIZE	MAX. ALLOWABLE LEAKAGE
3/4"	.0138 GAL/2 HRS/100 L.F.	16"	.2942 GAL/2 HRS/100 L.F.
1"	.0184 GAL/2 HRS/100 L.F.	20"	.3678 GAL/2 HRS/100 L.F.
1 1/2"	.0276 GAL/2 HRS/100 L.F.	24"	.4413 GAL/2 HRS/100 L.F.
2"	.0368 GAL/2 HRS/100 L.F.	30"	.5517 GAL/2 HRS/100 L.F.
3"	.0552 GAL/2 HRS/100 L.F.	36"	.6620 GAL/2 HRS/100 L.F.
4"	.0736 GAL/2 HRS/100 L.F.	42"	.7724 GAL/2 HRS/100 L.F.
6"	.1103 GAL/2 HRS/100 L.F.	48"	.8827 GAL/2 HRS/100 L.F.
8"	.1471 GAL/2 HRS/100 L.F.	54"	.9930 GAL/2 HRS/100 L.F.
12"	.2207 GAL/2 HRS/100 L.F.		

MAXIMUM ALLOWABLE LEAKAGE FOR THE WATER MAIN WILL BE CALCULATED USING THE FOLLOWING FORMULA:

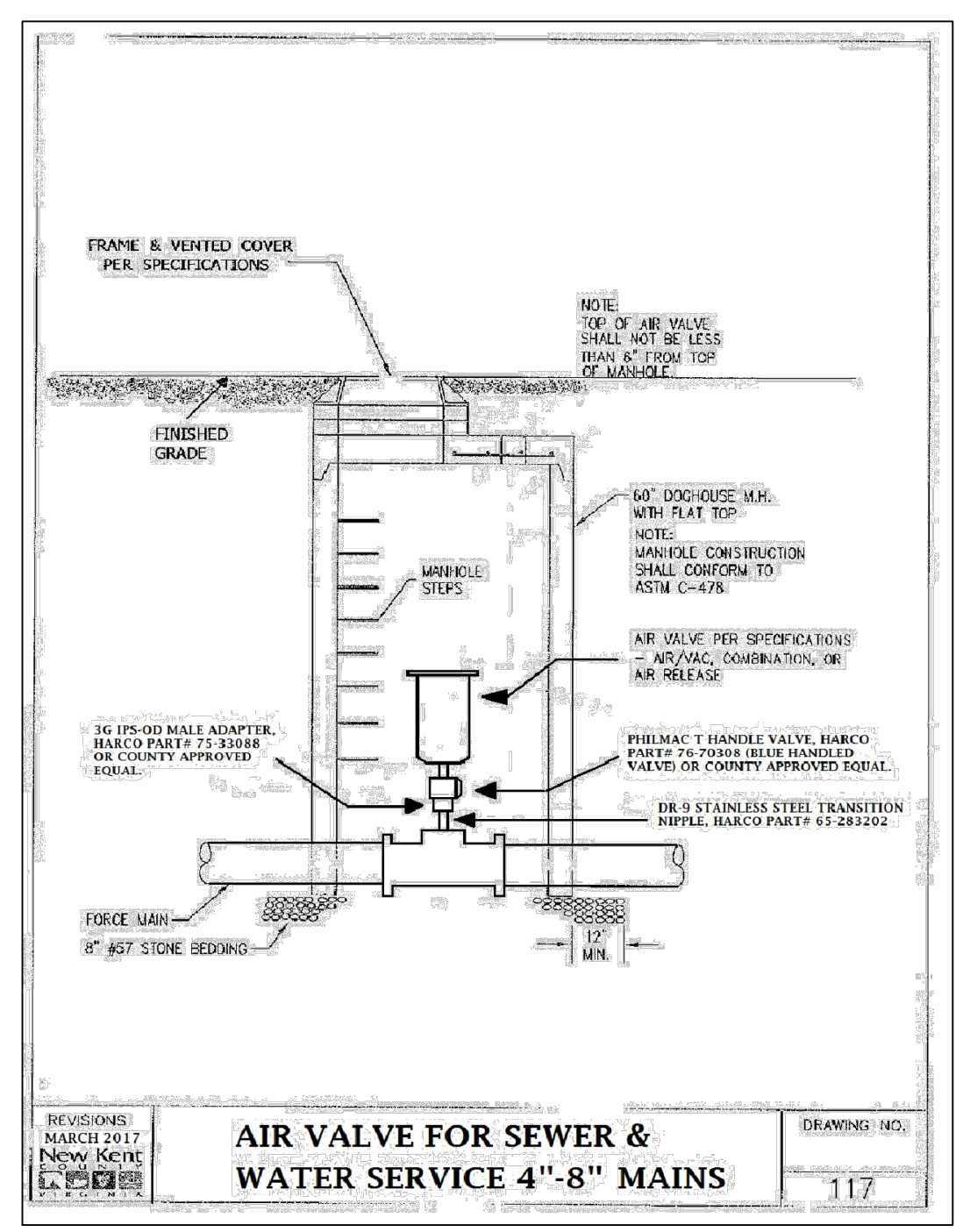
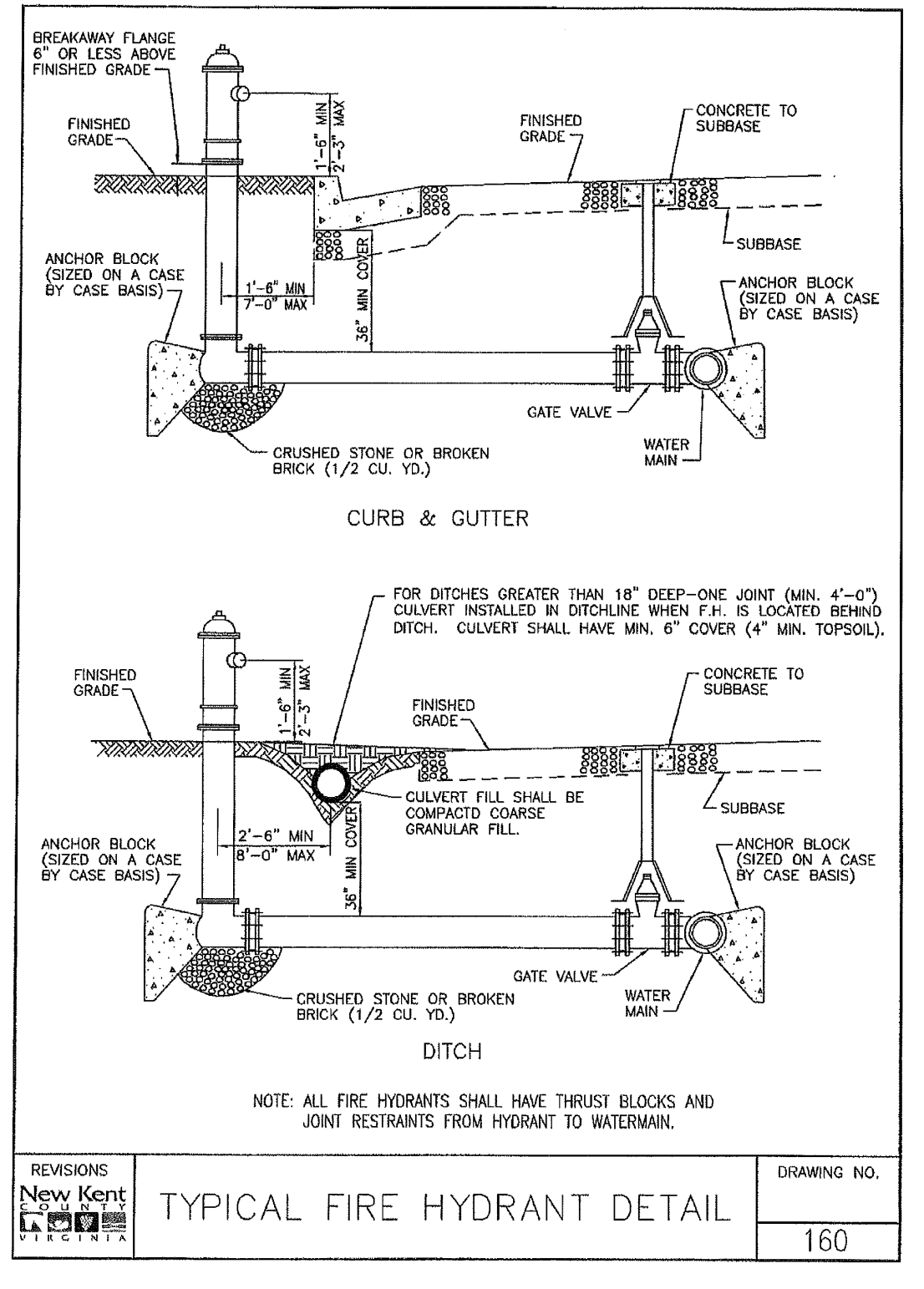
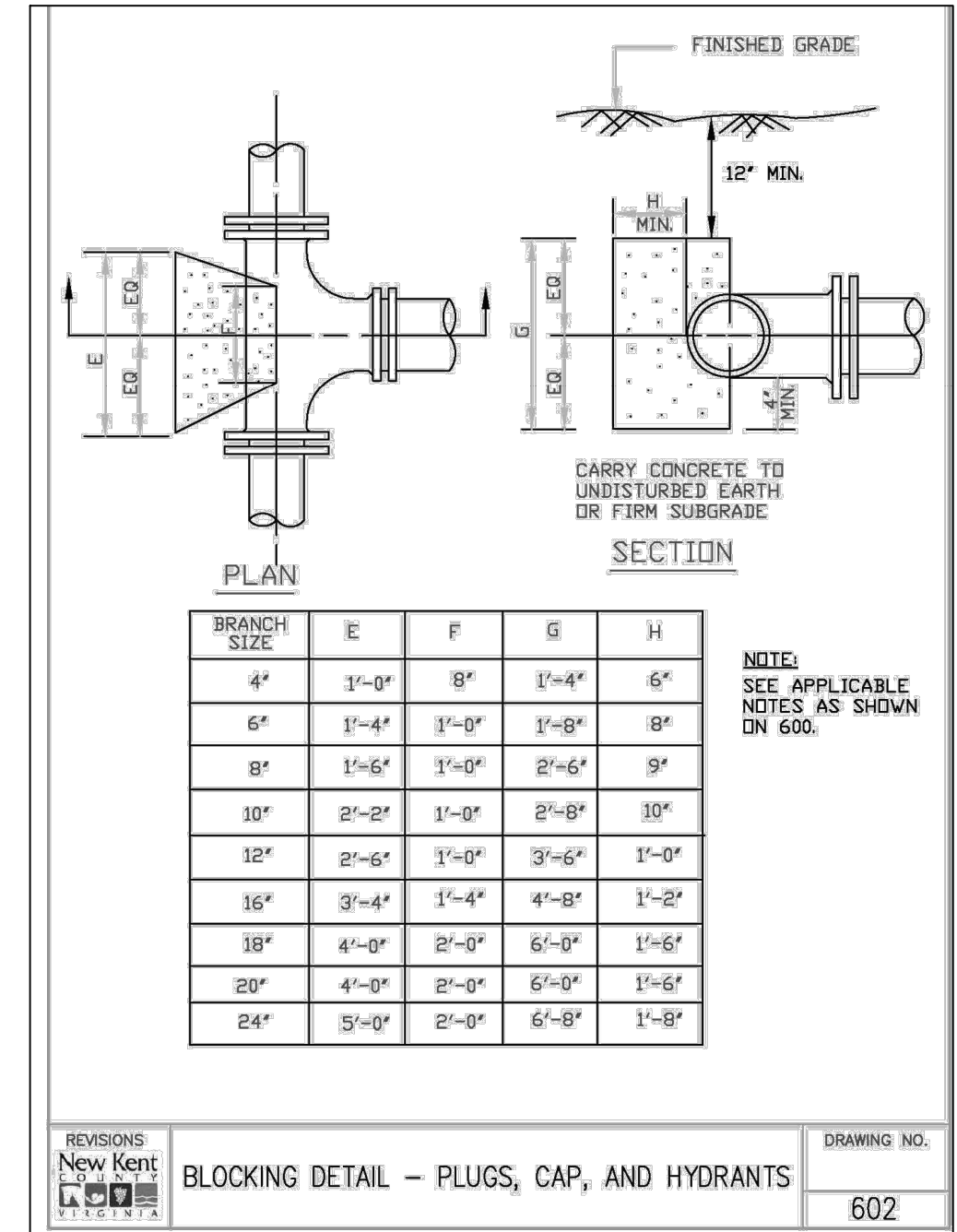
$$L = \frac{DS\sqrt{P}}{133200}$$

WHERE:
L = MAXIMUM ALLOWABLE LEAKAGE, GALLONS/HOUR
S = LENGTH OF PIPE IN TEST SECTION, IN FEET
D = NOMINAL DIAMETER OF TESTED PIPE, IN INCHES
P = TEST PRESSURE, POUNDS PER SQUARE INCH 150 PSI OR 1 1/2 THE WORKING PRESSURE WHICHEVER IS GREATER MEASURED AT THE HIGH POINT OF THE TEST SYSTEM.

ALLOWABLE LEAKAGE TABLE - WATER LINES
BASED ON FORMULAS FROM AWWA SPECIFICATIONS

REVISIONS: New Kent
DRAWING NO. 803

- WATER NOTES
- ALL CONSTRUCTION MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF STANDARDS FROM NEW KENT COUNTY PUBLIC UTILITIES DEPARTMENT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE NEW KENT COUNTY PUBLIC UTILITIES DEPARTMENT AND SCHEDULING A PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS PRIOR TO STARTING ANY WORK ON THIS PROJECT. ALL WORK SHALL BE SUBJECT TO INSPECTION BY NEW KENT COUNTY INSPECTORS. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.
 - THE LOCATION OF EXISTING UTILITIES ACROSS OR ALONG THE LINE OF THE PROPOSED WORK IS NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN IS ONLY APPROXIMATELY CORRECT. THE CONTRACTOR SHALL, ON HIS OWN INITIATIVE, AND AT NO EXTRA COST, LOCATE ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES.
 - MINIMUM COVER OVER TOP OF WATER PIPE SHALL BE 3.5 FEET.
 - DATUM FOR ALL ELEVATIONS SHOWN IN NATIONAL GEODETIC SURVEY.
 - ENGINEER SHALL CERTIFY THAT UNPAVED STREETS ARE TO SUBGRADE PRIOR TO CONTRACTOR INSTALLING WATER SYSTEM, CURB AND GUTTER, IF REQUIRED, SHALL BE INSTALLED PRIOR TO ACCEPTANCE OF WATER SYSTEM BY NEW KENT COUNTY PUBLIC UTILITIES DEPARTMENT.
 - CONTRACTOR SHALL CALL "MISS UTILITY" TOLL FREE AT 1-800-552-7001 PRIOR TO CONSTRUCTION.
 - NO STRUCTURES OR PLANTING OF TREES SHALL BE PERMITTED IN UTILITY EASEMENTS.
 - SERVICE SADDLES MUST BE USED ON ALL CONNECTIONS TO PVC WATER MAINS.
 - FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH NEW KENT STANDARD DRAWING D-160.
 - VANDALPROOF COVERS SHALL BE USED ON ALL MANHOLES IN EASEMENTS. WATERTIGHT COVERS SHALL BE USED IN FLOODPLAINS. THE MANHOLE COVERS SHALL BE IN ACCORDANCE WITH NEW KENT COUNTY STANDARD DRAWINGS D-465 OR D-466 AND D-468. FINAL ACCEPTANCE BY NEW KENT COUNTY SHALL NOT BE MADE UNTIL ALL WORK SHOWN ON APPROVED UTILITY PLANS IS COMPLETED INCLUDING PAVING, GRADING AND ALL REQUIRED ADJUSTMENTS.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO NEW KENT COUNTY PUBLIC UTILITIES FOR APPROVAL OF ALL MATERIALS PRIOR TO CONSTRUCTION.
 - LIGHTING MAY NOT BE PLACED ON EASEMENTS WHICH CONTAIN WATER OR SEWER LINES. IF IT IS NECESSARY TO INSTALL LIGHTING WITHIN THE WATER OR SEWER EASEMENT, THIS WORK MUST BE APPROVED BY NEW KENT COUNTY PUBLIC UTILITIES.
 - APPROVED "AS BUILT" DRAWINGS MUST BE PROVIDED TO THE COUNTY PRIOR TO ACCEPTANCE OF THIS WORK.
 - ALL WATER SERVICE CONNECTIONS WHERE THE STATIC PRESSURE IS ANTICIPATED TO BE GREATER THAN 80 PSI SHALL HAVE AN INDIVIDUAL PRESSURE REDUCING VALVE INSTALLED AS REQUIRED BY THE BOCA CODE.
 - THE EXTERIOR OF ALL FIRE HYDRANTS ABOVE THE GROUND LINE SHALL BE SHOP PAINTED SAFETY YELLOW. THE BONNET SHALL BE PAINTED SAFETY BLUE FOR ALL HYDRANTS. SINCE THE WATERLINE WILL NOT BE IMMEDIATELY PUT INTO USE, IT SHALL BE FLUSHED AND RESAMPLED PRIOR TO ADDING ANY CUSTOMER. THIS SHOULD ALSO BE CONSIDERED IN THE FUTURE FOR THE SURROUNDING PARCELS.



PIPE RESTRAINT LENGTH (FT)

PIPE SIZE	REDUCER - LARGE SIZE					TEES - BRANCH LINE SIZE						
	4"	6"	8"	10"	12"	4"	6"	8"	10"	12"		
4"	15	28	48	67	84	101	125	11	6	2	1	1
6"	17	40	61	80	97	122	23	19	16	9	3	1
8"	30	53	73	92	117	32	29	23	17	11	6	1
12"	31	56	77	106	117	45	40	36	31	24	15	8
16"	31	57	90	106	117	62	57	53	48	39	24	15
20"	32	70	106	117	117	78	74	68	63	54	39	24
24"	32	70	106	117	117	94	88	84	88	74	54	39
30"	32	70	106	117	117	117	117	117	117	117	117	117

HORIZONTAL PIPE RESTRAINT LENGTH (FT)

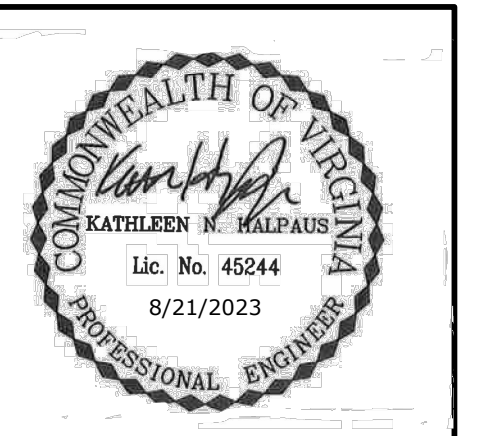
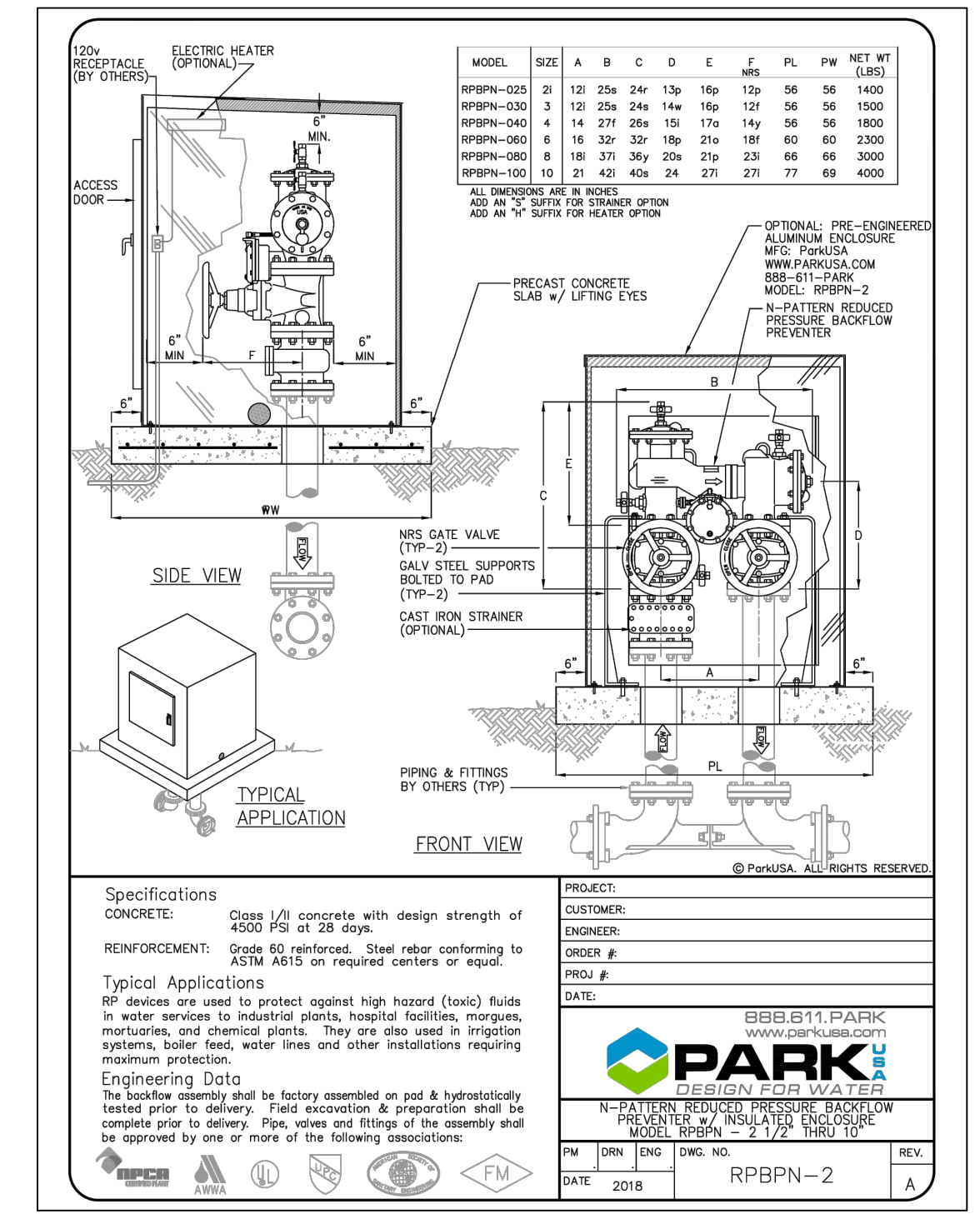
PIPE SIZE	11-1/4" BEND		22-1/2" BEND		45° BEND		90° BEND		DEAD END	
	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER
4"	2	3	3	7	5	21	15	21	15	21
6"	3	5	5	9	9	22	28	28	28	28
8"	3	6	6	12	12	28	38	38	38	38
12"	4	8	8	17	17	40	55	55	55	55
16"	6	11	11	22	22	52	72	72	72	72
20"	7	13	13	26	26	63	89	89	89	89
24"	8	15	15	31	31	74	105	105	105	105
30"	9	18	18	37	37	89	128	128	128	128

VERTICAL PIPE RESTRAINT LENGTH (FT)

PIPE SIZE	11-1/4" BEND		22-1/2" BEND		45° BEND		90° BEND	
	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER
4"	3	2	6	3	13	6	N/A	N/A
6"	5	2	9	4	18	8	N/A	N/A
8"	6	3	11	5	23	10	N/A	N/A
12"	8	4	16	7	33	14	N/A	N/A
16"	10	5	20	9	42	18	N/A	N/A
20"	13	6	25	11	51	22	N/A	N/A
24"	15	6	29	13	60	26	N/A	N/A
30"	18	8	35	15	73	31	N/A	N/A

DI RESTRAINT LENGTH TABLE

REVISIONS: New Kent
DRAWING NO. 805



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REVISION DESCRIPTION

DATE	DESCRIPTION
8/21/2023	

DRAWN BY
J. ALLESSIE

DESIGNED BY
M. HETZLER

CHECKED BY
K. HALPAUS

SCALE
NONE

TIMMONS GROUP

FORGE LOGISTICS BUILDING TWO
NEW KENT COUNTY - VIRGINIA

UTILITIES NOTES AND DETAILS

JOB NO.
58776

SHEET NO.
C3.7

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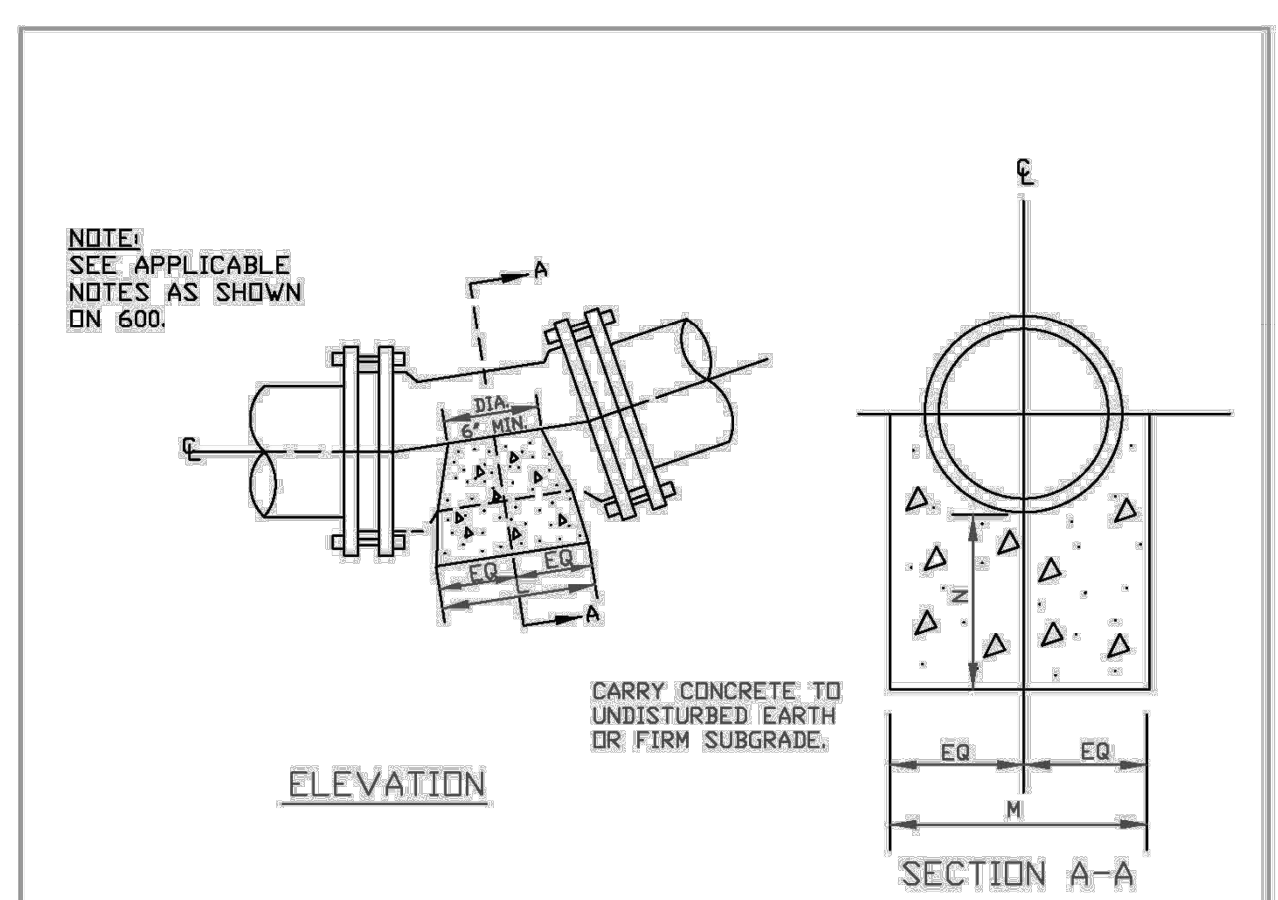
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 DRAWN BY: J. ALLESSIE
 DESIGNED BY: M. HETZLER
 CHECKED BY: K. HALPAUS
 SCALE: NONE

TIMMONS GROUP
 FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA
 UTILITIES NOTES AND DETAILS

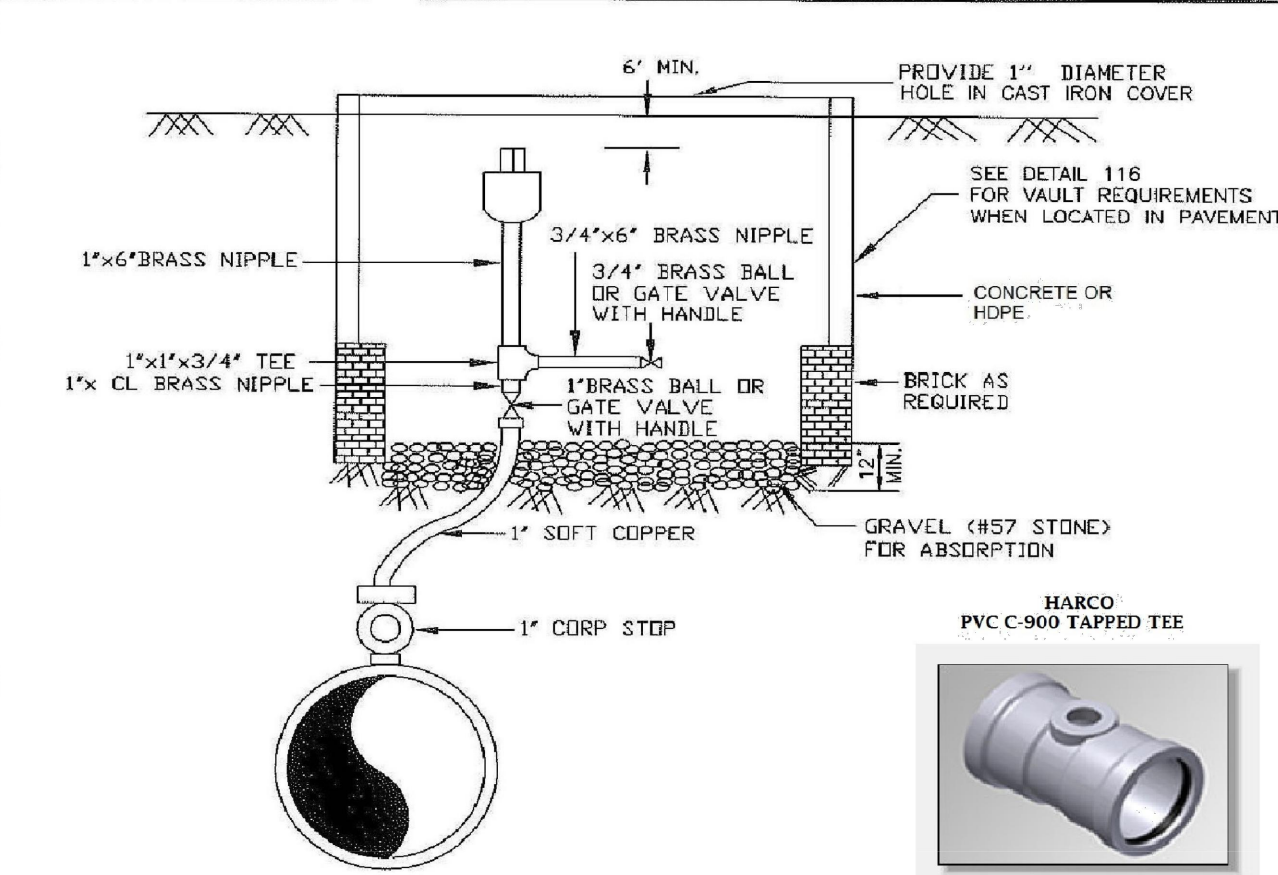
JOB NO. 58776
 SHEET NO. C3.8



PIPE SIZE	11-1/4" BEND			22-1/2" BEND			45" BEND		
	L	M	N	L	M	N	L	M	N
6"	6"	1'-2"	8"	10"	1'-2"	8"	1'-2"	1'-2"	8"
8"	8"	1'-4"	8"	11"	1'-4"	8"	1'-9"	1'-4"	8"
10"	8"	1'-6"	8"	1'-3"	1'-6"	9"	2'-5"	1'-6"	1'-0"
12"	8"	2'-0"	8"	1'-4"	2'-0"	9"	2'-8"	2'-0"	1'-2"
16"	1'-1"	2'-4"	9"	2'-1"	2'-4"	1'-0"	4'-0"	2'-4"	1'-6"
18"	1'-5"	2'-8"	10"	2'-9"	2'-8"	1'-2"	5'-6"	2'-8"	2'-0"
20"	1'-5"	2'-8"	10"	2'-9"	2'-8"	1'-2"	5'-6"	2'-8"	2'-0"
24"	1'-10"	3'-0"	1'-0"	3'-7"	3'-0"	1'-4"	6'-0"	3'-6"	2'-6"

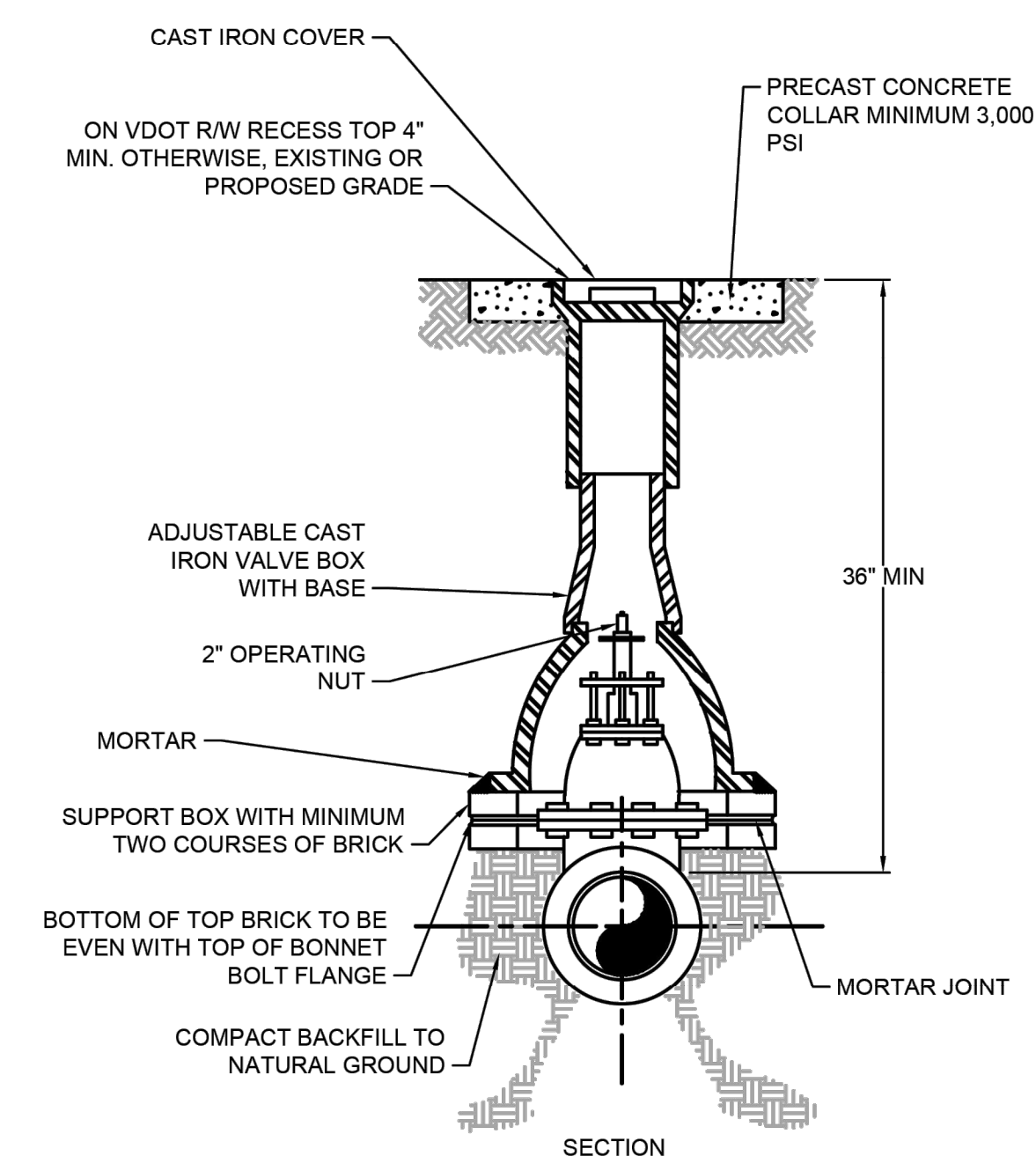
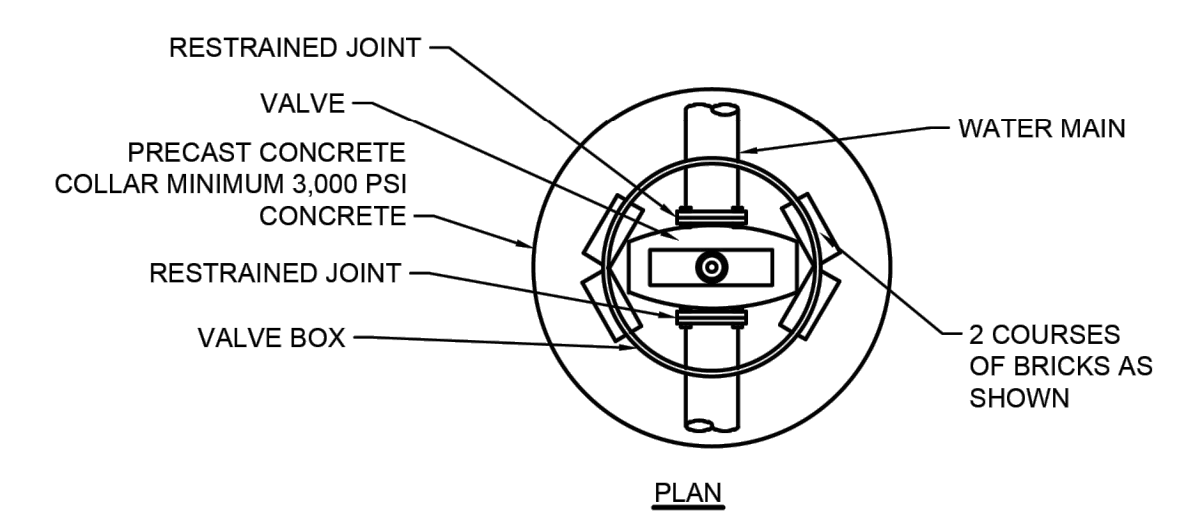
NOTE: BLOCKING BASED ON PRESSURE OF 150 PSI AND ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF, CONCRETE TO BE 3000 PSI.

REVISIONS: MARCH 2017
New Kent
 BLOCKING DETAIL - LOWER VERTICAL BENDS
 DRAWING NO. 603



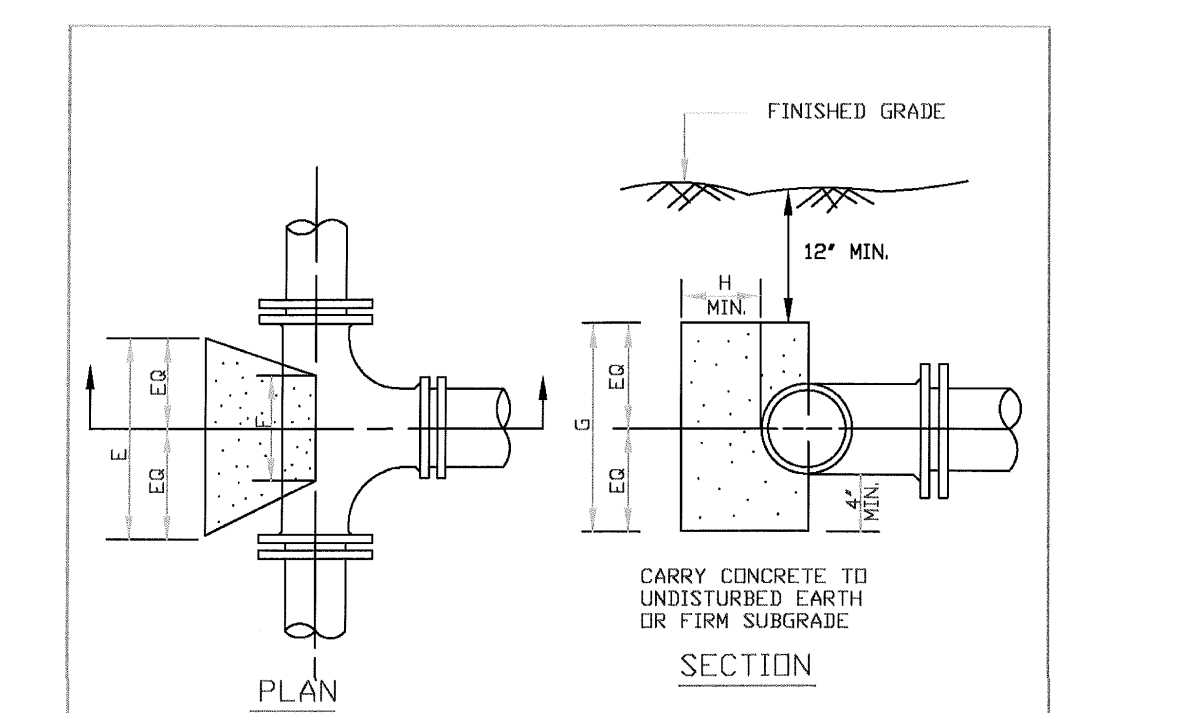
- NOTE: 1. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO DESIGN THE PUBLIC WATER SYSTEM TO MINIMIZE THE NUMBER OF AIR RELEASE VALVES BY ELIMINATING HIGH POINTS WHERE REASONABLY FEASIBLE AND TO PROPERLY SIZE THE AIR RELEASE VALVE TAKING INTO CONSIDERATION ALL THE DESIGN FACTORS. DRIFICE SIZE SHALL BE NOTED ON PLANS.
2. ALL COPPER FITTINGS WILL BE COMPRESSION TYPE.
3. HARCO TAPPED SERVICE TEE FOR C-900 PIPE (OR COUNTY APPROVED EQUAL) MUST BE USED FOR WATER MAINS OR FORCE MAINS THAT ARE 4" - 8".
4. WHERE THE AIR RELEASE VALVE IS REMOTE FROM THE WATER LINE THERE MUST BE CONTINUOUS RISE IN THE COPPER SUPPLY LINE TO THE AIR RELEASE VALVE AND NO TRAP SHALL BE PERMITTED.
5. AIR RELEASE VALVE TO BE PLACED WHERE NOT SUBJECT TO FLOODING.
6. 1" AIR RELEASE VALVE ARE GENERALLY USED ON WATERLINES 12" OR LESS IN DIAMETER.
7. LARGER, STRAIGHT RUN LINES MAY REQUIRE EVEN LARGER AIR RELEASES UNDER CERTAIN CIRCUMSTANCES. THESE ARE TO BE EVALUATED ON A CASE BY-CASE BASIS.

REVISIONS: MARCH 2017
New Kent
 1" RELEASE VALVE
 DRAWING NO. 115



- NOTES
 1. ALL VALVES AND FITTINGS SHALL HAVE STAINLESS STEEL TIE RODS.

GATE VALVE SETTING - WITH PRECAST CONCRETE COLLAR
 N.T.S.



BRANCH SIZE	E	F	G	H
4"	1'-0"	8"	1'-4"	6"
6"	1'-4"	1'-0"	1'-8"	8"
8"	1'-6"	1'-0"	2'-6"	9"
10"	2'-0"	1'-0"	2'-8"	10"
12"	2'-6"	1'-0"	3'-6"	1'-0"
16"	3'-4"	1'-4"	4'-8"	1'-2"
18"	4'-0"	2'-0"	6'-0"	1'-6"
20"	4'-0"	2'-0"	6'-0"	1'-6"
24"	5'-0"	2'-0"	6'-8"	1'-8"

REVISIONS: MARCH 2017
New Kent
 BLOCKING DETAIL - TEES
 DRAWING NO. 601

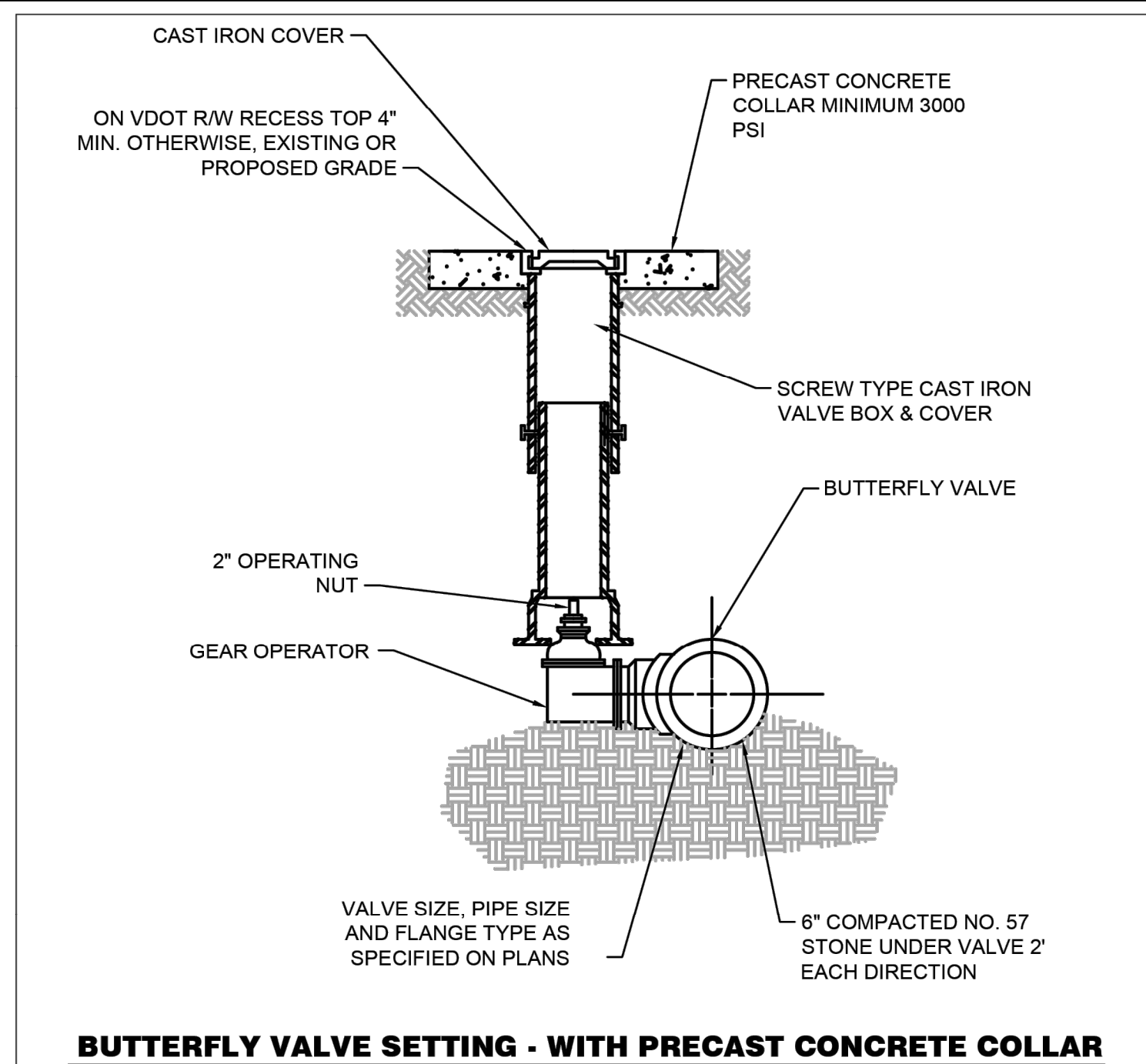
PIPE MATERIAL TYPE AND SIZE	MAXIMUM DEFLECTION AT EACH JOINT	DEFLECTIONS (INCHES EACH JOINT) 19' LAYING LENGTH	RADIUS (MINIMUM)
DUCTILE IRON (PUSH-ON JOINT)			
6" TO 12"	2" 30'	9.5'	413'
14" TO 16"	2" 00'	7.5'	516'
18" +	1" 30'	5.5'	688'
DUCTILE IRON (MECHANICAL JOINT)			
6"	3" 30'	13.5'	291'
8" TO 12"	3" 00'	11.5'	344'
16"	2" 00'	7.5'	516'
24"	1" 30'	5.5'	688'

Note: Any deflection not listed for iron pipe may be derived by:
 $R = \frac{90^\circ}{1/2 \text{ Manufacturer's } X 18" \times 2}$ Deflection = tan joint deflection X 18" X 12
 Max. Jt. Deflection π

PIPE NOM. DIA.	PIPE I.D.	RADIUS (MIN.)	PRESSURE RATING - DIMENSION RATIO
6"	6.9"	272.5'	150 psi DR 18
8"	9.05"	326.3'	150 psi DR 18
10"	11.10"	377.5'	150 psi DR 18
12"	13.20"	430.0'	150 psi DR 18
14"	15.30"	482.5'	165 psi DR 26
16"	17.40"	535.0'	165 psi DR 26
18"	19.50"	587.5'	165 psi DR 26
20"	21.60"	640.0'	165 psi DR 26
24"	25.80"	745.0'	165 psi DR 26

- Notes: 1. Any radius not listed for PVC pipe may be derived by: $Do 300 + 100 (Do = \text{outside diameter in Feet})$
2. Due to the difficulty of measuring deflections on curved pipe, no deflections are given. It is expected that curved water lines will be properly shown on the plans and staked in the field.

REVISIONS: MARCH 2017
New Kent
 ALLOWABLE DEFLECTIONS FOR WATER PIPE
 DRAWING NO. 804



BUTTERFLY VALVE SETTING - WITH PRECAST CONCRETE COLLAR
 N.T.S.

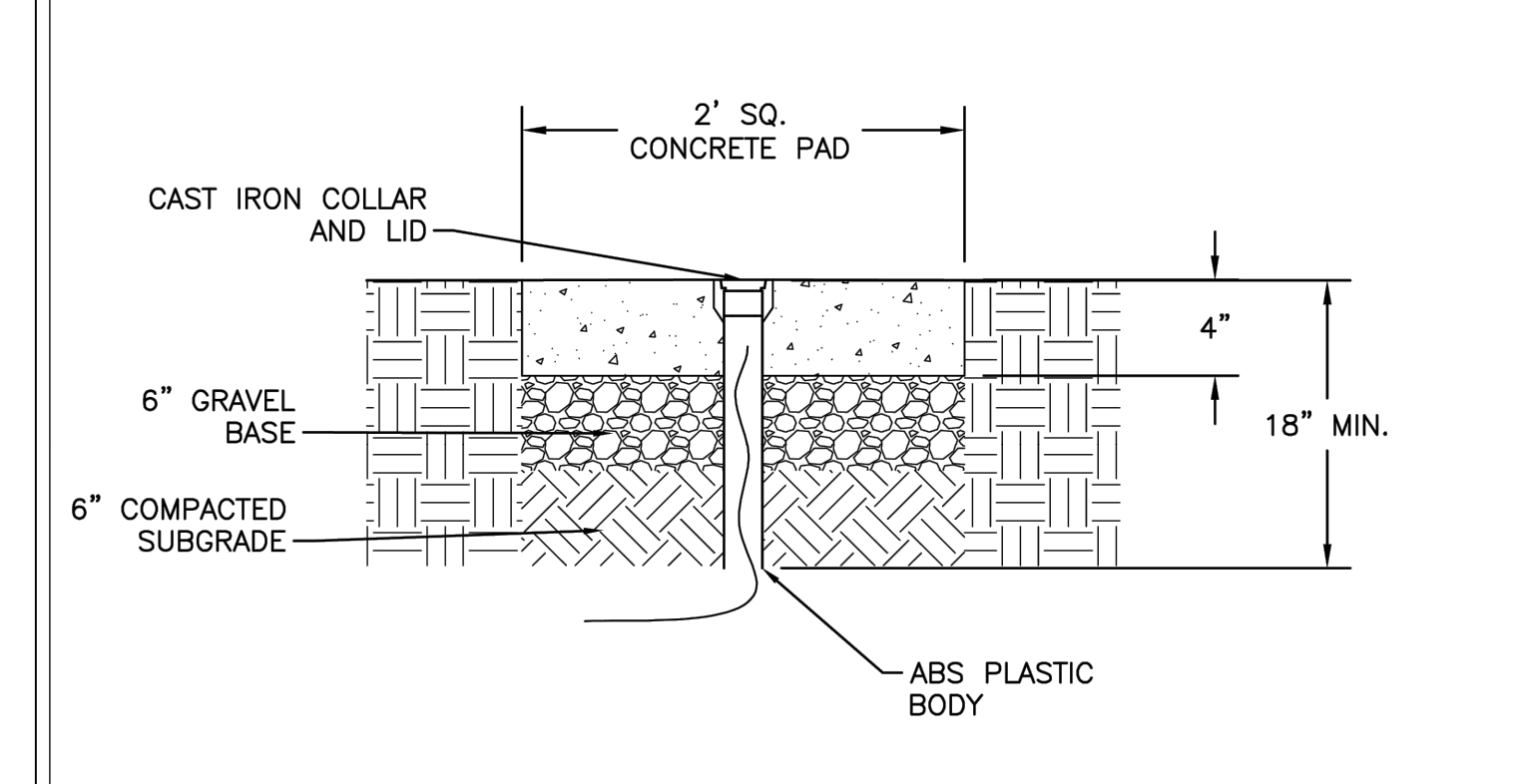
PIPE SIZE	PIPE RESTRAINT LENGTH (FT)													
	REDUCER - LARGE SIZE						TEES - BRANCH LINE SIZE							
4"	28	51	88	123	115	186	231	19	11	3	1	1	1	1
6"	30	74	112	147	174	225	41	35	29	16	4	1	1	1
8"	54	97	135	169	217	57	52	41	31	21	11	1	1	1
12"	57	102	143	196	82	73	65	56	44	112	104	97	85	123
16"	58	106	167	83	129	142	134	123	171	160	213			
20"	58	106	167	83	129	142	134	123	171	160	213			
24"	58	106	167	83	129	142	134	123	171	160	213			
30"	58	106	167	83	129	142	134	123	171	160	213			

PIPE SIZE	HORIZONTAL PIPE RESTRAINT LENGTH (FT)				
	11-1/4" BEND	22-1/2" BEND	45" BEND	90" BEND	DEAD END
4"	2	4	9	20	38
6"	3	6	12	28	54
8"	4	8	16	37	71
12"	6	11	22	53	102
16"	7	14	29	68	133
20"	9	17	35	83	163
24"	10	20	41	97	193
30"	12	24	49	117	236

PIPE SIZE	VERTICAL PIPE RESTRAINT LENGTH (FT)			
	11-1/4" BEND UPPER	11-1/4" BEND LOWER	22-1/2" BEND UPPER	22-1/2" BEND LOWER
4"	6	2	12	4
6"	8	3	16	5
8"	11	4	21	7
12"	15	5	30	9
16"	20	6	39	12
20"	24	7	48	14
24"	28	8	56	17
30"	34	10	68	20

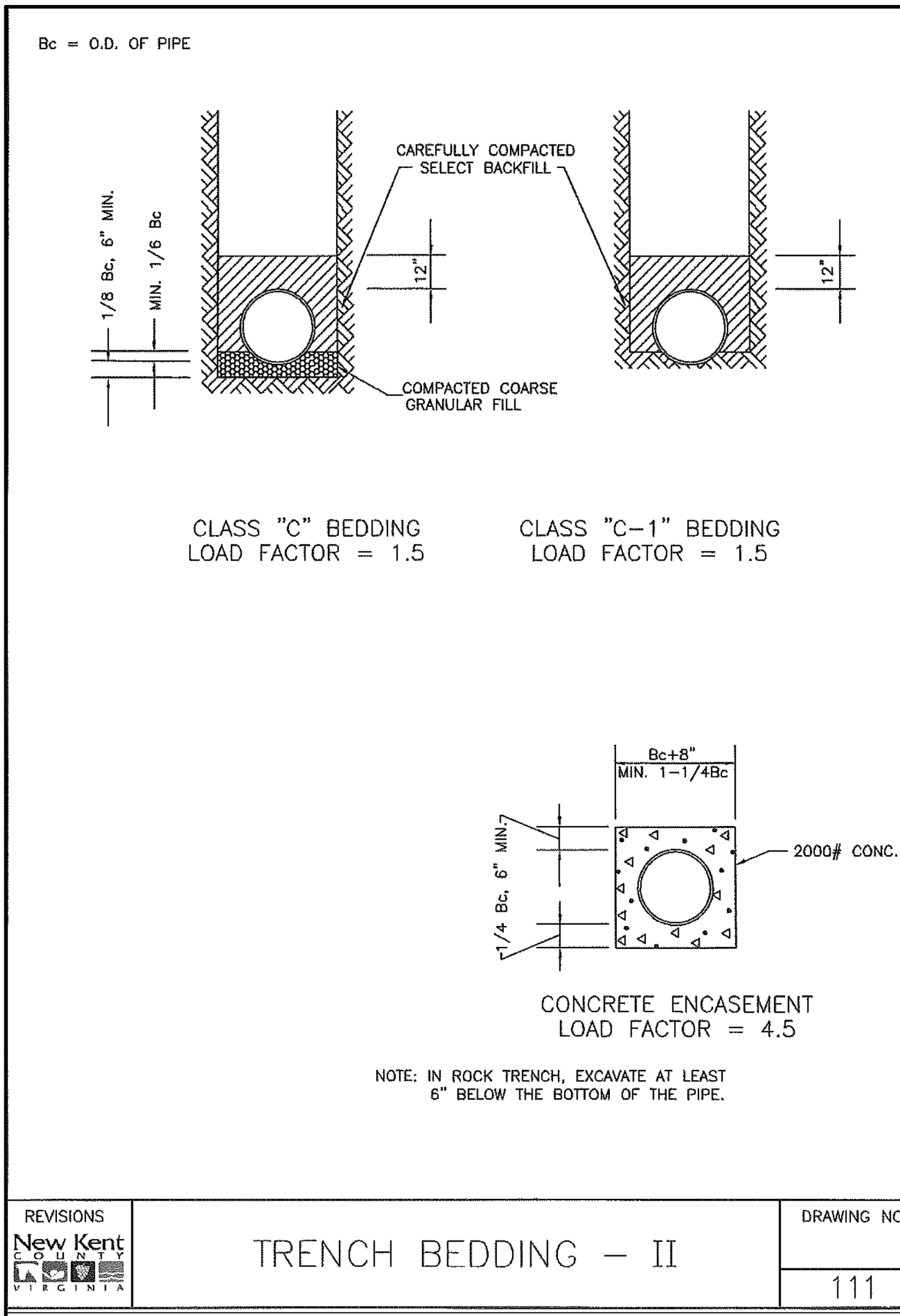
ALL CALCULATIONS BASED ON EBAA IRON RESTRAINT LENGTH CALCULATOR V5.01.
 ALL CALCULATIONS ASSUME SOIL TYPE CL, SAFETY FACTOR OF 1.5 TO 1, TRENCH TYPE 3,
 DEPTH OF BURY OF 3.5', TEST PRESSURE OF 200.
 TEES ASSUME "LENGTH ON RUN" OF 5'.
 VERTICAL OFFSETS ASSUME LOW SIDE DEPTH OF 5'.
 LISTED LENGTHS ARE MINIMUMS. RESTRAINTS SHALL BE INSTALLED TO NEXT JOINT BEYOND ALL LISTED DISTANCES.
 RESTRAINTS ARE TO BE INSTALLED THE SPECIFIED LENGTH IN EACH DIRECTION AWAY FROM THE JOINT.

REVISIONS: MARCH 2017
New Kent
 PVC RESTRAINT LENGTH TABLE
 DRAWING NO. 806

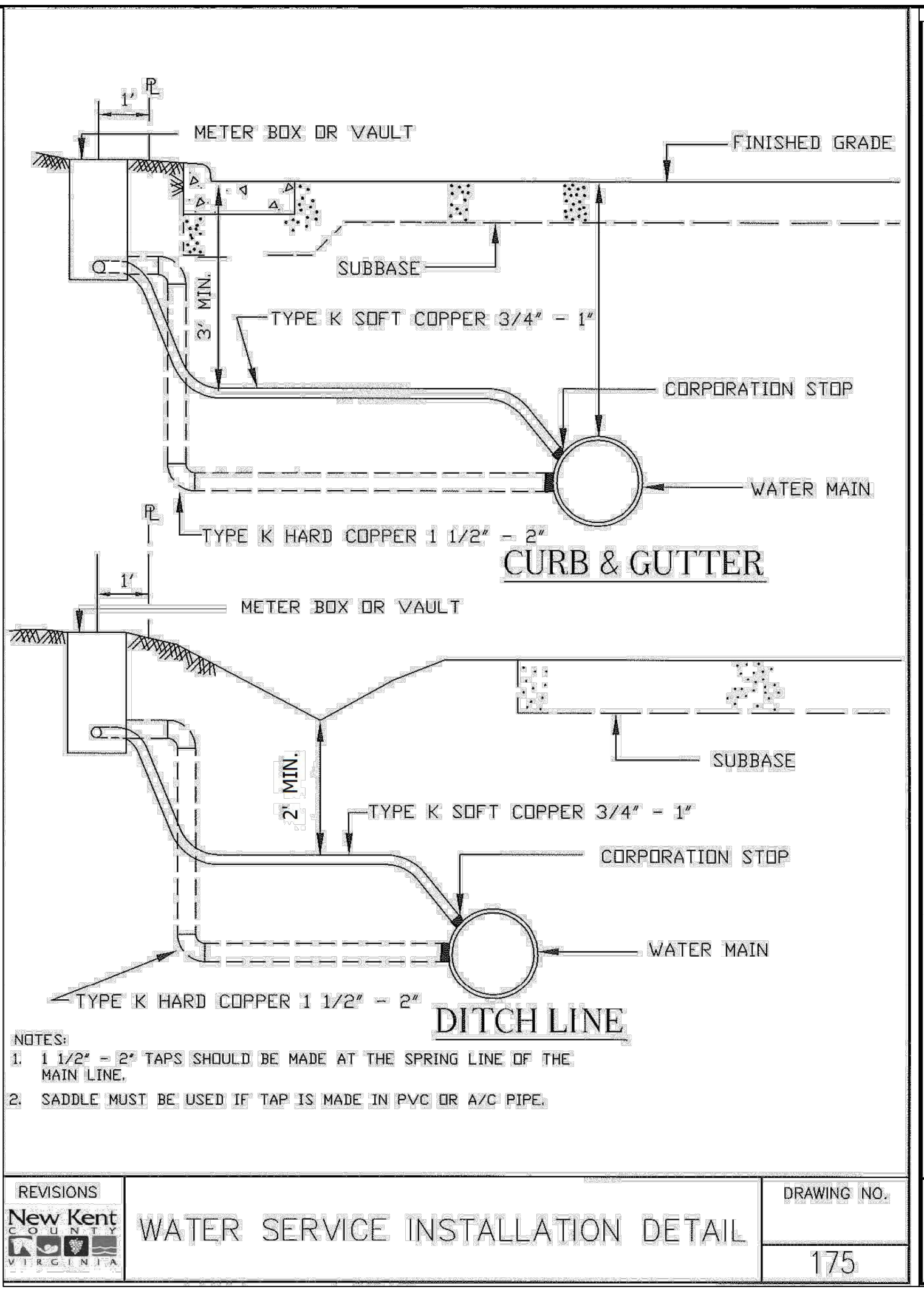


- NOTES
 1. TEST BOX TO BE BINGHAM TAYLOR P-200 TEST WITH FLARED BOTTOM; 2-1/2" SIZE OR EQUAL.
2. CONCRETE FOR PAD TO BE 3,000 PSI CONCRETE.
3. ALL TEST STATIONS LOCATED OUTSIDE PUBLIC RIGHT OF WAYS AND NOT ADJACENT TO OTHER ABOVE GROUND FACILITIES SHOULD HAVE A MARKER/WITNESS POST PROVIDED ADJACENT TO IT UNLESS OTHERWISE APPROVED BY DPU.
4. PRECAST REINFORCED CONCRETE RING 24" IN DIAMETER MAY BE USED IN LIEU OF 2' SQUARE PAD POURED IN PLACE.

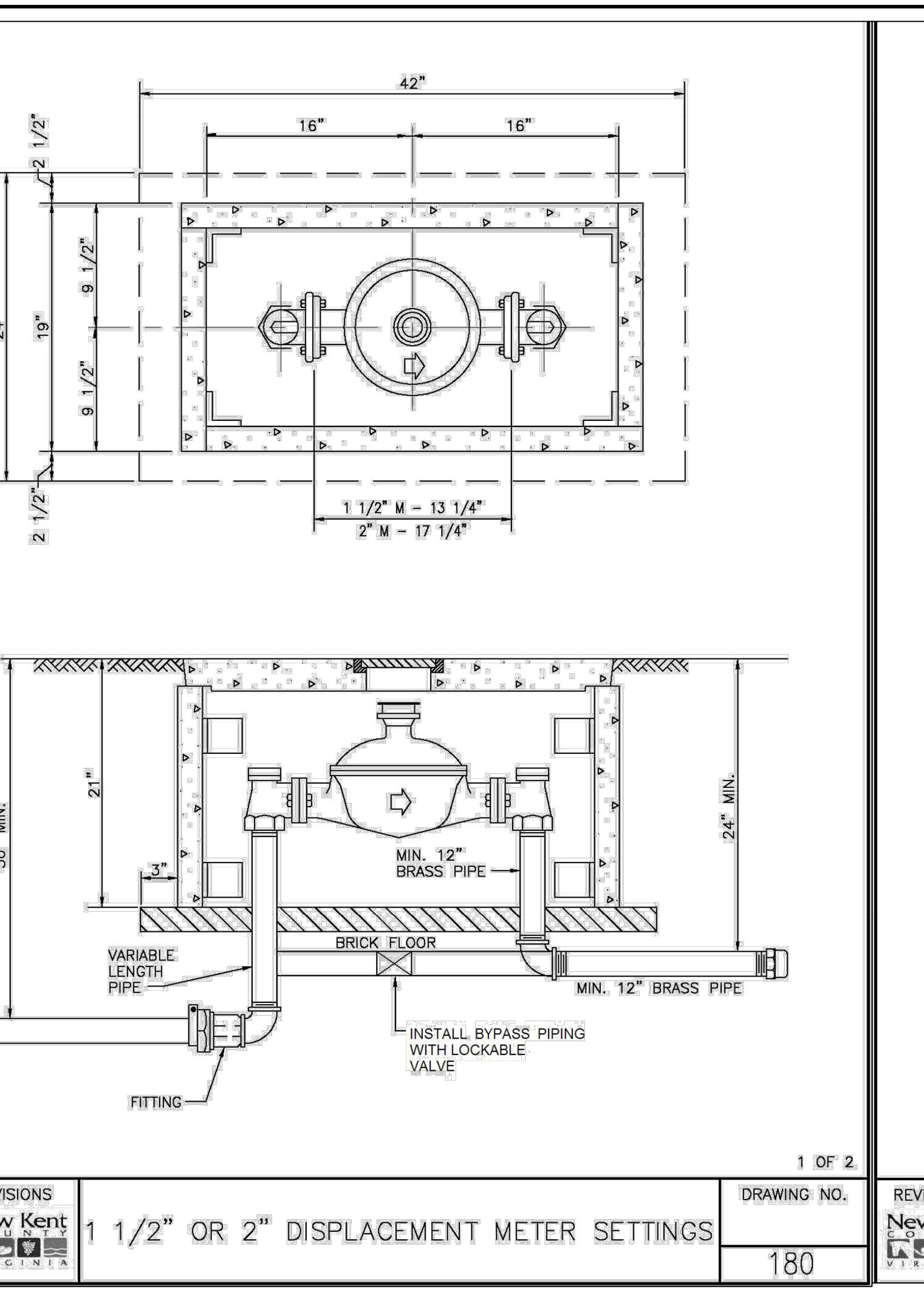
TEST STATION BOX
 N.T.S.



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New Kent LOGISTICS GROUP VIRGINIA	111



REVISIONS	DRAWING NO.
New Kent LOGISTICS GROUP VIRGINIA	175



REVISIONS	DRAWING NO.
New Kent LOGISTICS GROUP VIRGINIA	180

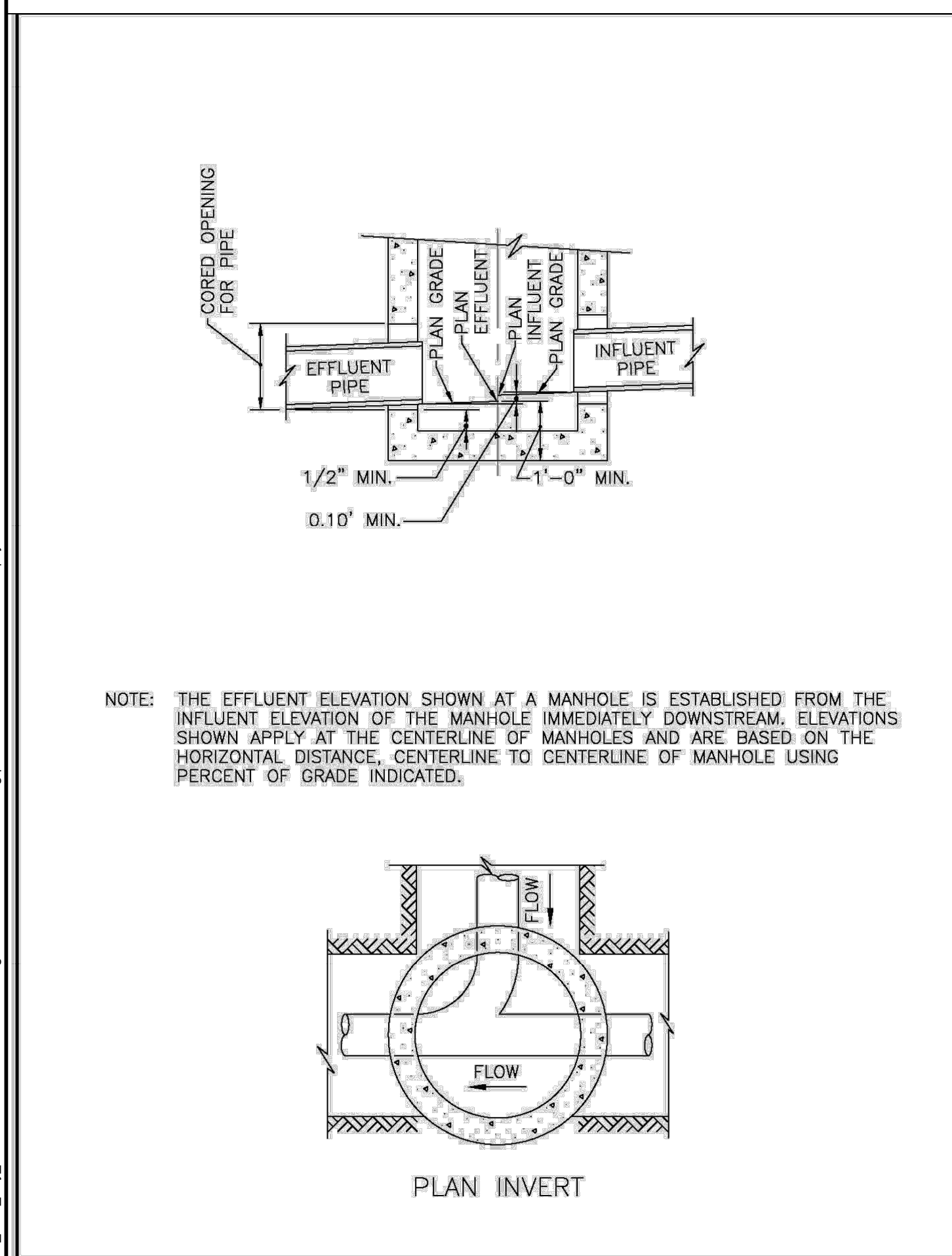
MATERIAL FOR 1 1/2" DISPLACEMENT METER WITH 1 1/2" INLET AND 1 1/2" OUTLET

QTY.	DESCRIPTION
1	1 1/2" Displacement Meter w/gaskets, bolts and nuts
2	1 1/2" Flanged angle valves
5	1 1/2" Brass Pipe (2 pcs. 12" long; 1 pc. variable length; Pipe to be cut and threaded by Contractor)
2	1 1/2" Brass elbows
1	#1 Cover
2	Side A
2	Side B
8	Angle
16	Bolts, nuts and washers; 1/2" x 3 1/2"
25	Bricks
1	1 1/2" Brass blind cap

MATERIAL FOR 2" DISPLACEMENT METER WITH 2" INLET AND 2" OUTLET

QTY.	DESCRIPTION
1	2" Displacement Meter w/gaskets, bolts and nuts
2	2" Flanged angle valves
5	2" Brass Pipe (2 pcs. 12" long; 1 pc. variable length; Pipe to be cut and threaded by Contractor)
2	2" Brass elbows
1	#1 Cover
2	Side A
2	Side B
8	Angle
16	Bolts, nuts and washers; 1/2" x 3 1/2"
25	Bricks
1	2" Brass blind cap

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New Kent LOGISTICS GROUP VIRGINIA	181



REVISIONS	DRAWING NO.
New Kent LOGISTICS GROUP VIRGINIA	455

MINIMUM TEST TIMES FOR VARIOUS MANHOLE DIAMETERS

DEPTH (FT)	DIAMETER, (IN.)								
	30	33	36	42	48	54	60	66	72
8	11	12	14	17	20	23	26	29	33
10	14	15	18	21	25	29	33	36	41
12	17	18	21	25	30	35	39	43	49
14	20	21	25	30	35	41	46	51	57
16	22	24	29	34	40	46	52	58	67
18	25	27	32	38	45	52	59	65	73
20	28	30	35	42	50	53	65	72	81
22	31	33	39	46	55	64	72	79	89
24	33	36	42	51	59	64	78	87	97
26	36	39	46	55	64	75	85	94	105
28	39	42	49	59	69	81	91	101	113
30	42	45	53	63	74	87	98	108	121

NOTE:

- THE TEST HEAD SHALL BE PLACED AT THE TOP OF THE MANHOLE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- A VACUUM OF 10 IN. OF MERCURY SHALL BE DRAWN ON THE MANHOLE, THE VALVE ON THE VACUUM LINE OF THE TEST HEAD CLOSED, AND THE VACUUM PUMP SHUT OFF. THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP TO 9 IN. OF MERCURY.
- THE MANHOLE SHALL PASS IF THE TIME FOR THE VACUUM READING TO DROP FROM 10 IN. OF MERCURY TO 9 IN. OF MERCURY MEETS OR EXCEEDS THE VALUES INDICATED IN TABLE ABOVE.
- IF THE MANHOLE FAILS THE INITIAL TEST, NECESSARY REPAIRS SHALL BE MADE BY AN APPROVED METHOD. THE MANHOLE SHALL THEN BE RETESTED UNTIL A SATISFACTORY TEST IS OBTAINED.

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MINIMUM SPECIFIED TIME REQUIRED FOR A 1.0 PSIG PRESSURE DROP FOR SIZE AND LENGTH OF PIPE INDICATED PRESSURE DROP FROM 3.5 PSIF TO 2.5 PSIG*

PIPE DIAMETER (IN.)	MINIMUM TIME (MIN. SEC)	TIME FOR LENGTH (L) (SEC)	SPECIFICATION TIME FOR LENGTH (L) SHOWN (MINSEC)									
			100 FT.	150 FT.	200 FT.	250 FT.	300 FT.	350 FT.	400 FT.	450 FT.		
6	5:40	.854 L	5:40	5:40	5:40	5:40	5:40	5:40	5:42	6:24		
8	7:34	1.520 L	7:34	7:34	7:34	7:34	7:36	8:52	10:08	11:24		
10	9:26	2.374 L	9:26	9:26	9:26	9:53	11:52	13:51	15:49	17:48		
12	11:20	3.418 L	11:20	11:20	11:24	14:15	17:05	19:56	22:47	25:38		
15	14:10	5.342 L	14:10	14:10	17:48	22:15	26:42	31:09	35:36	40:04		
18	17:00	7.692 L	17:00	19:13	25:38	32:03	38:27	44:52	51:16	57:41		
21	19:50	10.470 L	19:50	26:10	34:54	43:37	52:21	61:00	69:48	78:31		
24	22:40	13.674 L	22:47	34:11	45:34	56:58	68:22	79:46	91:10	102:33		
27	25:30	17.306 L	28:51	43:16	57:41	72:07	86:32	100:57	115:22	129:48		
30	28:20	21.366 L	35:37	53:25	71:13	89:02	106:50	124:38	142:26	160:15		
33	31:10	25.852 L	43:05	64:38	86:10	107:43	129:16	150:43	172:21	193:53		
36	34:00	30.768 L	51:17	76:55	102:34	128:12	153:50	179:29	205:07	230:46		
42	45:21	41.883 L	69:48	104:47	139:37	174:31	209:25	244:19	279:13	314:07		

*The 3.5 psig test pressure shall be increased by adding the average vertical height in feet of ground water above the sewer pipe invert, divided by 2.31 but the maximum starting test pressure shall not exceed 9 psig.

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MINIMUM TEST TIME TWO HOURS

WATER LINE TEST BASED ON 150 PSI		WATER LINE TEST BASED ON 150 PSI	
SIZE	MAX. ALLOWABLE LEAKAGE	SIZE	MAX. ALLOWABLE LEAKAGE
3/4"	.0124 (GAL/2 HRS)/100 L.F.	16"	.2648 (GAL/2 HRS)/100 L.F.
1"	.0166 (GAL/2 HRS)/100 L.F.	20"	.3310 (GAL/2 HRS)/100 L.F.
1 1/2"	.0248 (GAL/2 HRS)/100 L.F.	24"	.3972 (GAL/2 HRS)/100 L.F.
2"	.0331 (GAL/2 HRS)/100 L.F.	30"	.4958 (GAL/2 HRS)/100 L.F.
3"	.0497 (GAL/2 HRS)/100 L.F.	36"	.5958 (GAL/2 HRS)/100 L.F.
4"	.0662 (GAL/2 HRS)/100 L.F.	42"	.6951 (GAL/2 HRS)/100 L.F.
6"	.0993 (GAL/2 HRS)/100 L.F.	48"	.7944 (GAL/2 HRS)/100 L.F.
8"	.1324 (GAL/2 HRS)/100 L.F.	54"	.8937 (GAL/2 HRS)/100 L.F.
12"	.1986 (GAL/2 HRS)/100 L.F.		

MAXIMUM ALLOWABLE LEAKAGE FOR THE WATER MAIN WILL BE CALCULATED USING THE FOLLOWING FORMULA:

$$L = \frac{DS\sqrt{P}}{148,000}$$

WHERE:

- L = MAXIMUM ALLOWABLE LEAKAGE, GALLONS/HOUR
- S = LENGTH OF PIPE IN TEST SECTION, IN FEET
- D = NOMINAL DIAMETER OF TESTED PIPE, IN INCHES
- P = TEST PRESSURE, POUNDS PER SQUARE INCH 150 PSI OR 1 1/2 THE WORKING PRESSURE, WHICHEVER IS GREATER MEASURED AT THE HIGH POINT OF THE TEST SYSTEM.

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J. ALLESSIE	J. ALLESSIE
DESIGNED BY	DESIGNED BY
M. HETZLER	M. HETZLER
CHECKED BY	CHECKED BY
K. HALPAUS	K. HALPAUS
SCALE	SCALE
NONE	NONE

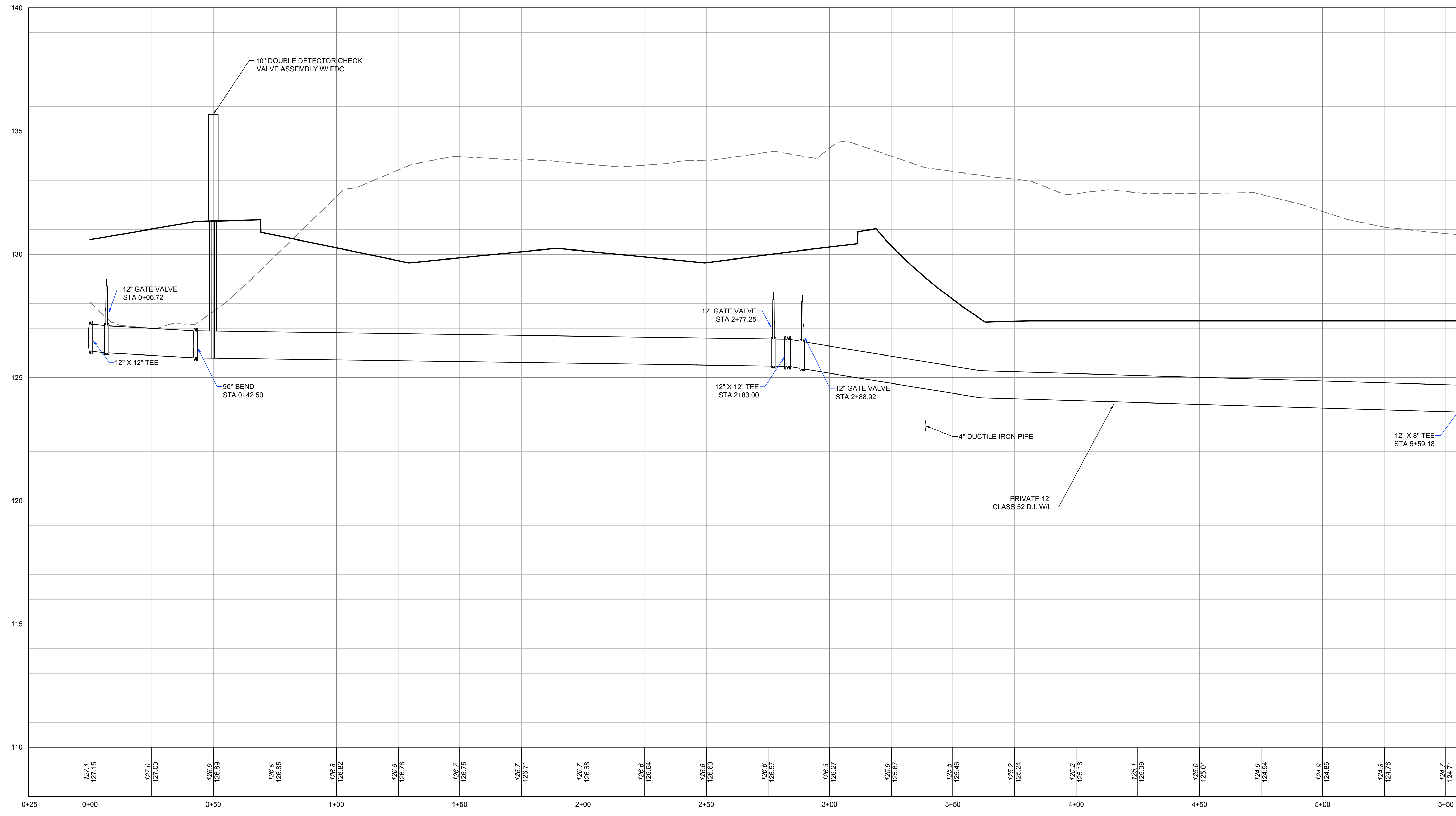
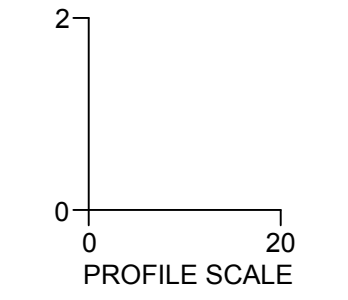
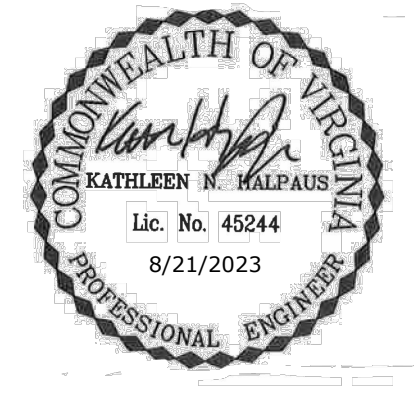
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UTILITIES NOTES AND DETAILS

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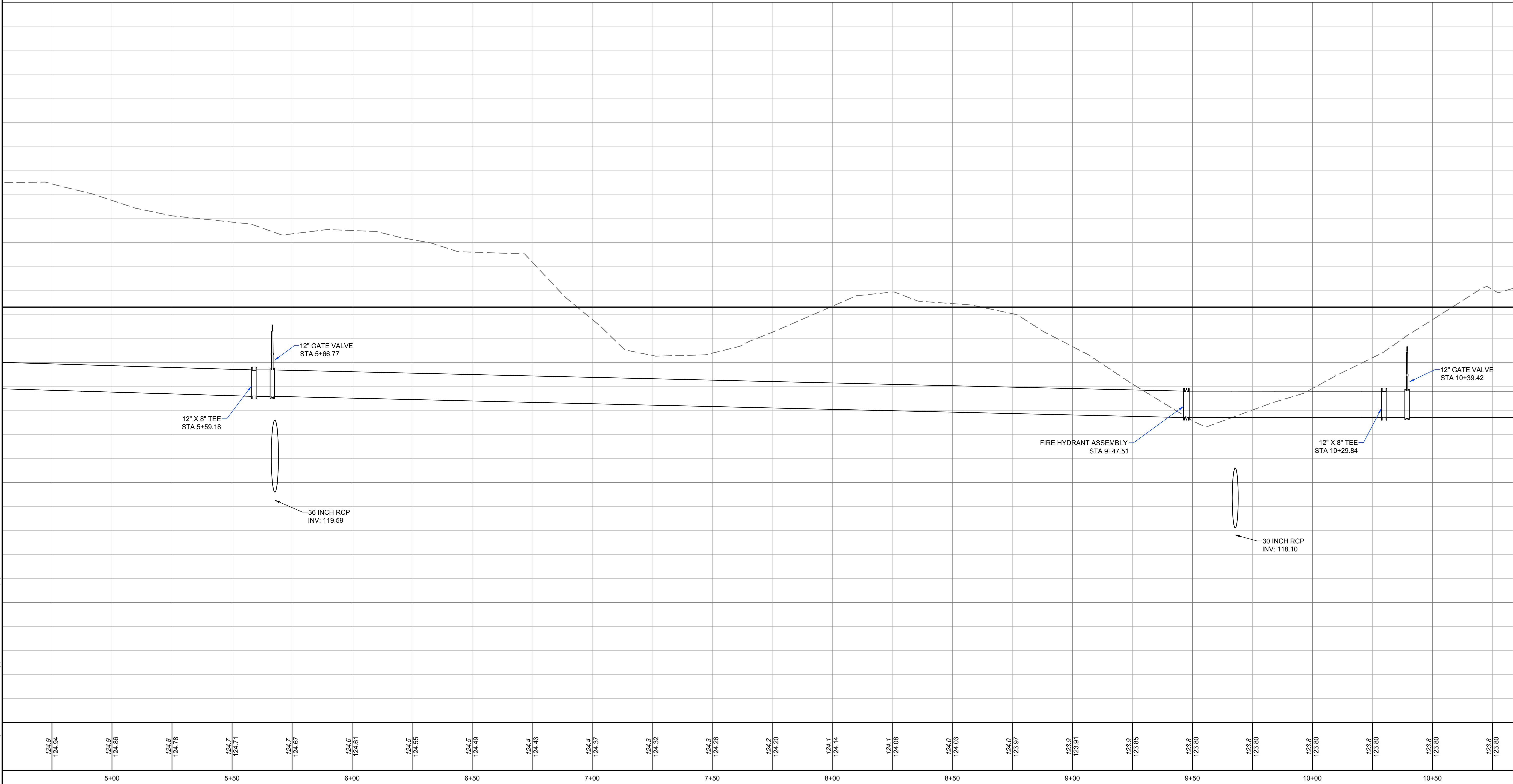
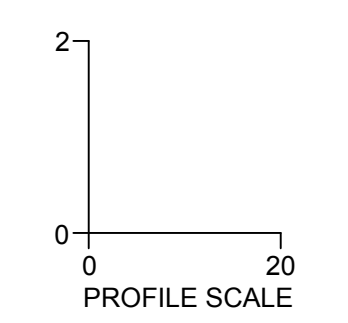
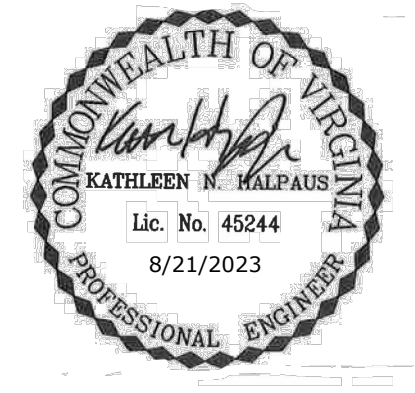
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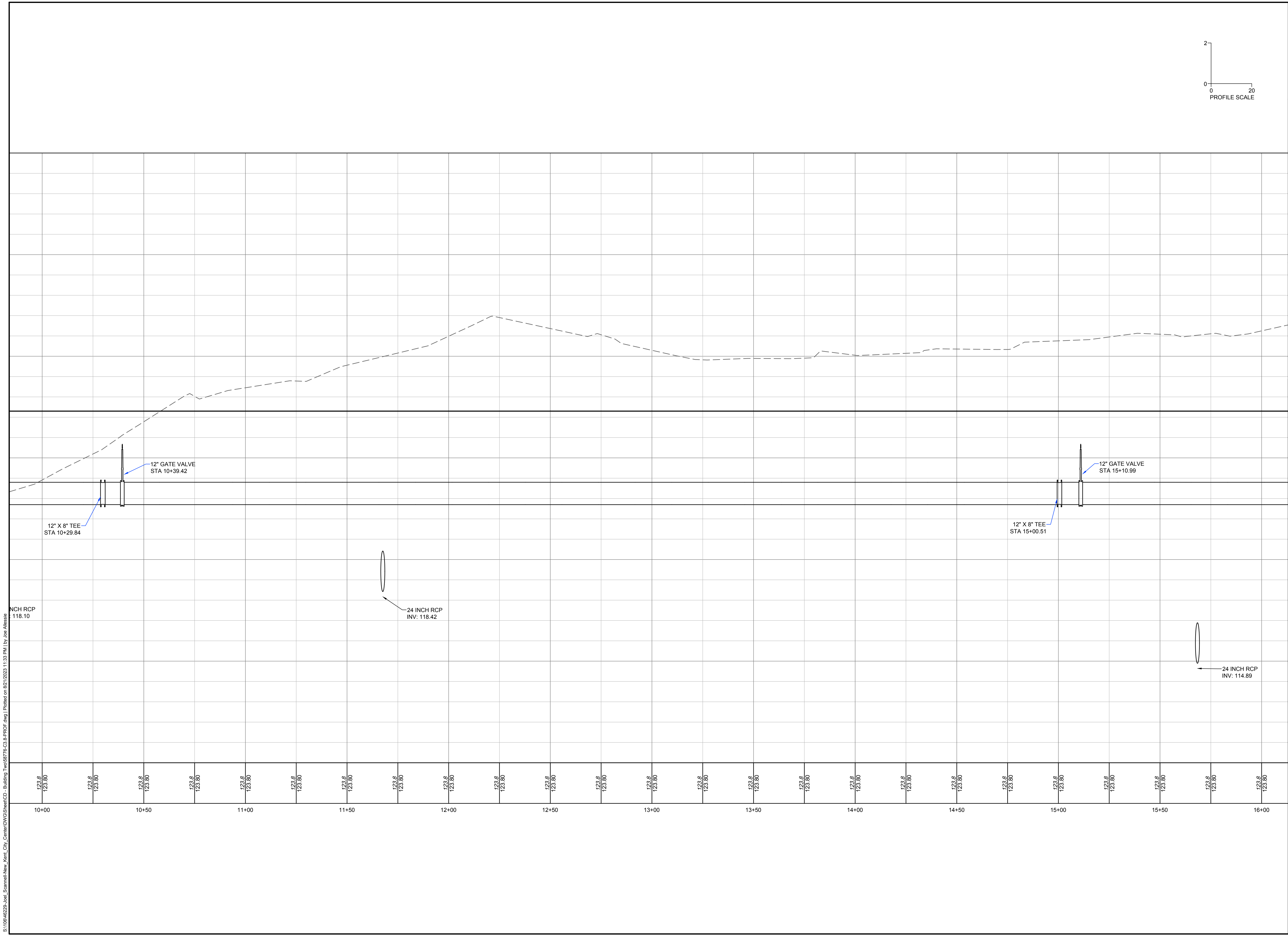
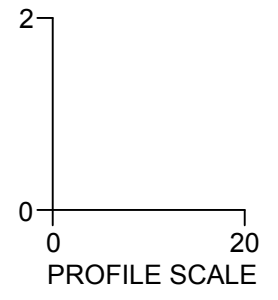
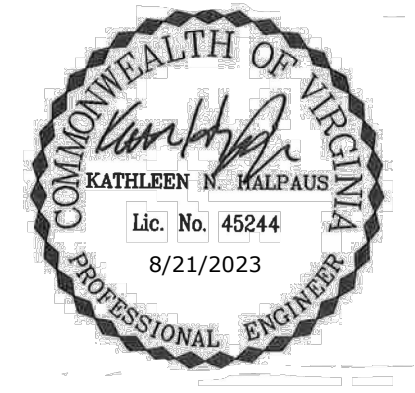
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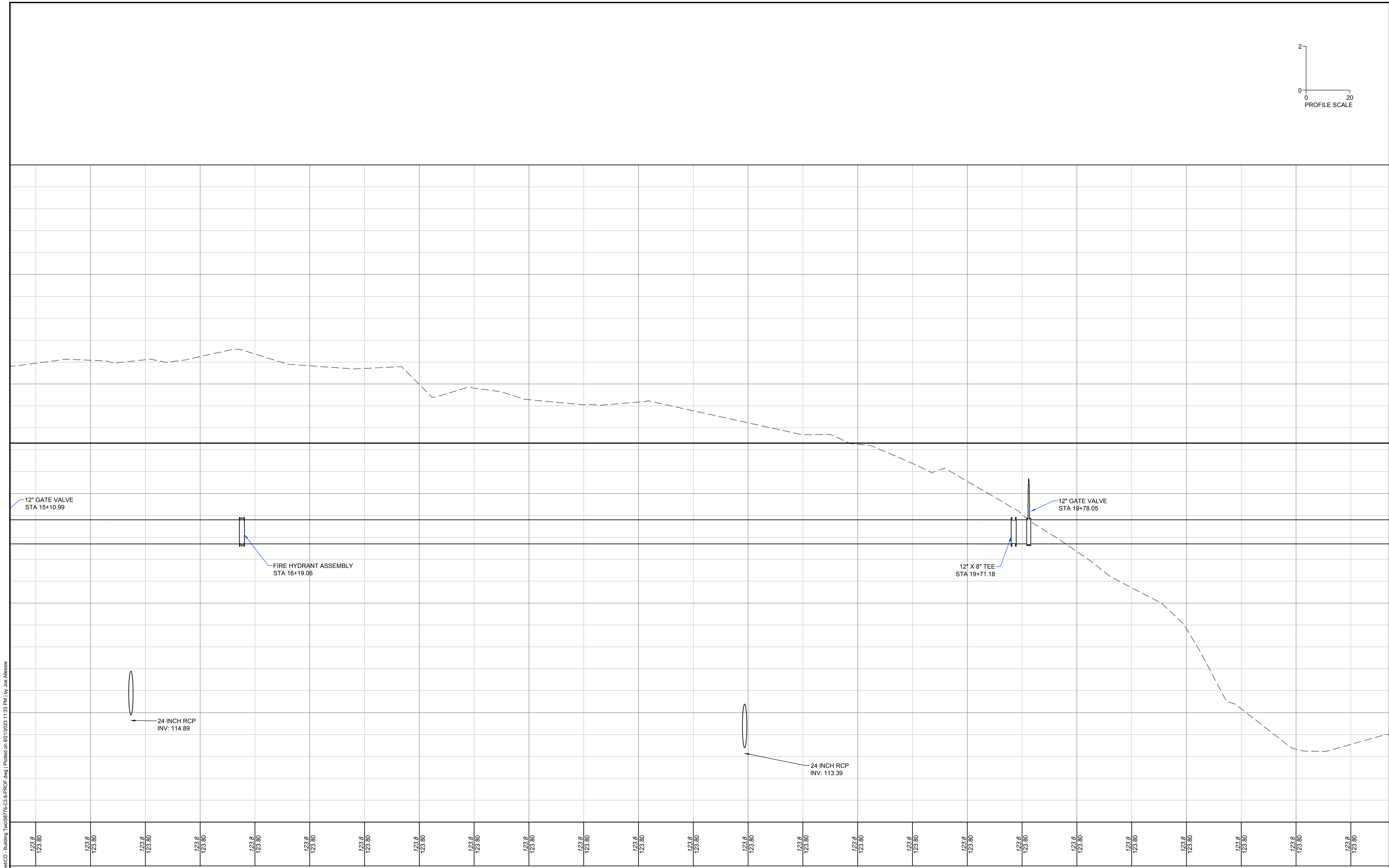
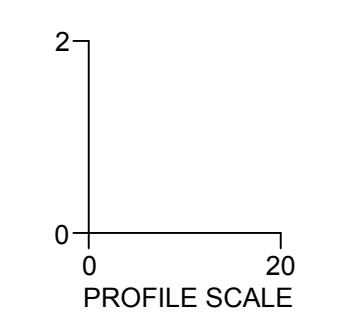
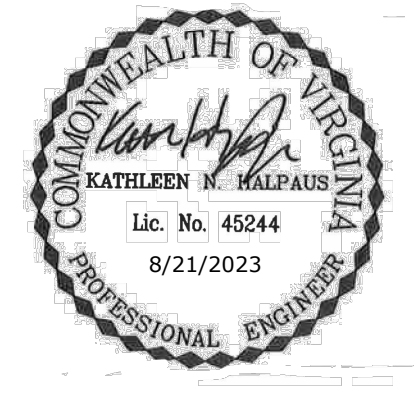
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15+50	16+00	16+50	17+00	17+50	18+00	18+50	19+00	19+50	20+00	20+50	21+00
123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8
123.80	123.80	123.80	123.80	123.80	123.80	123.80	123.80	123.80	123.80	123.80	123.80

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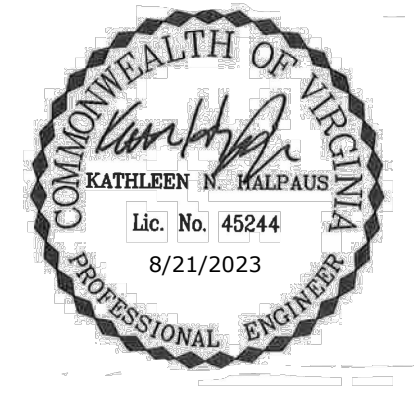
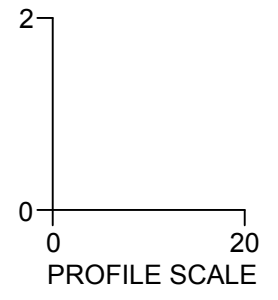
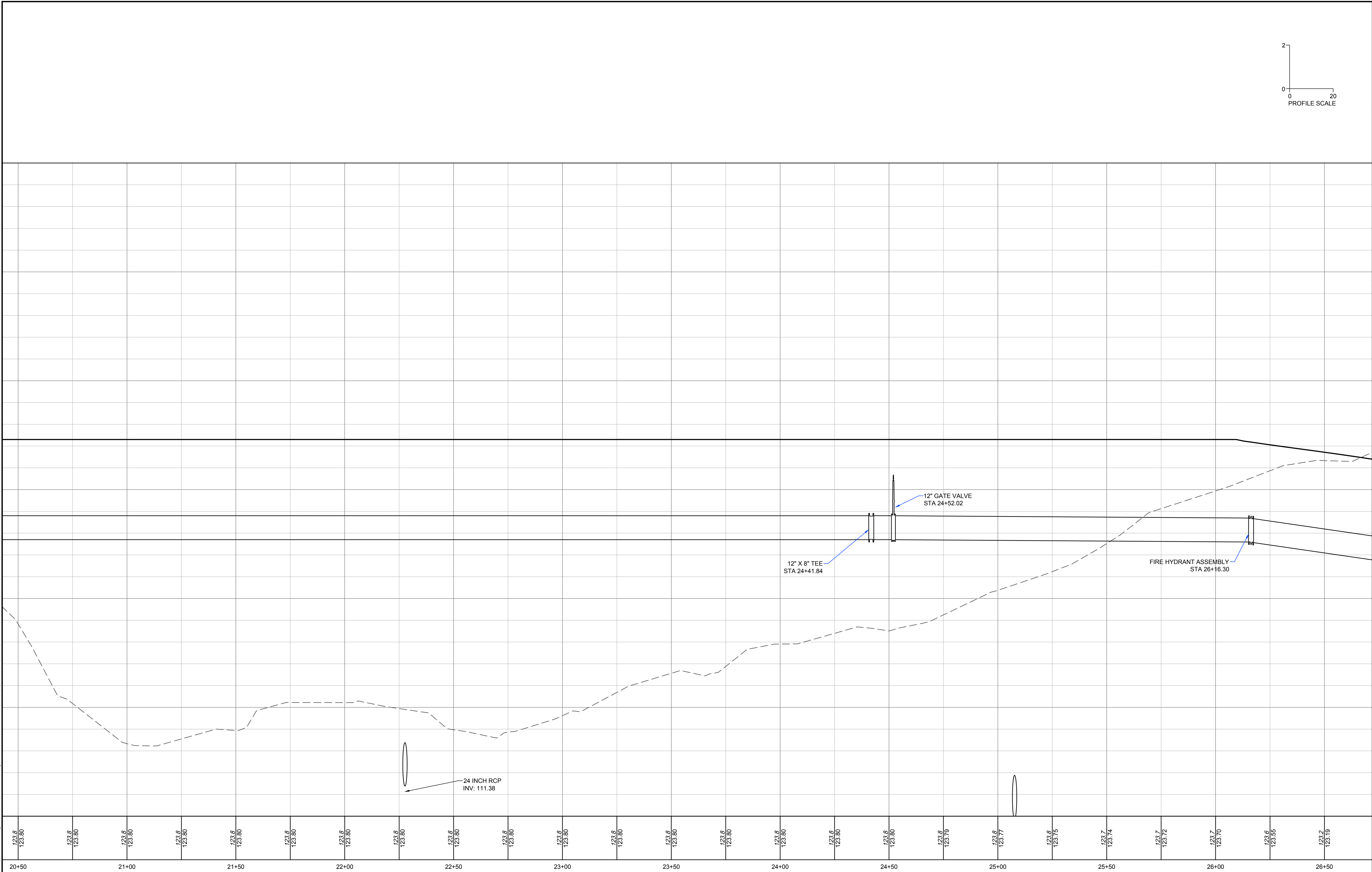
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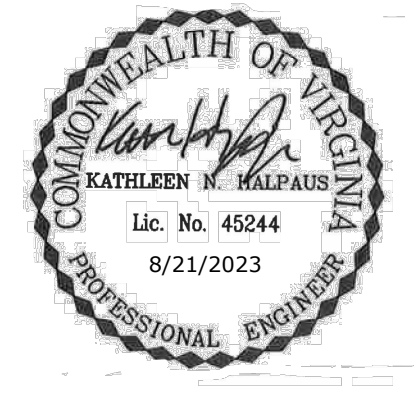
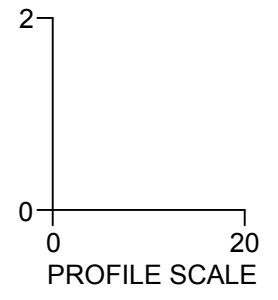
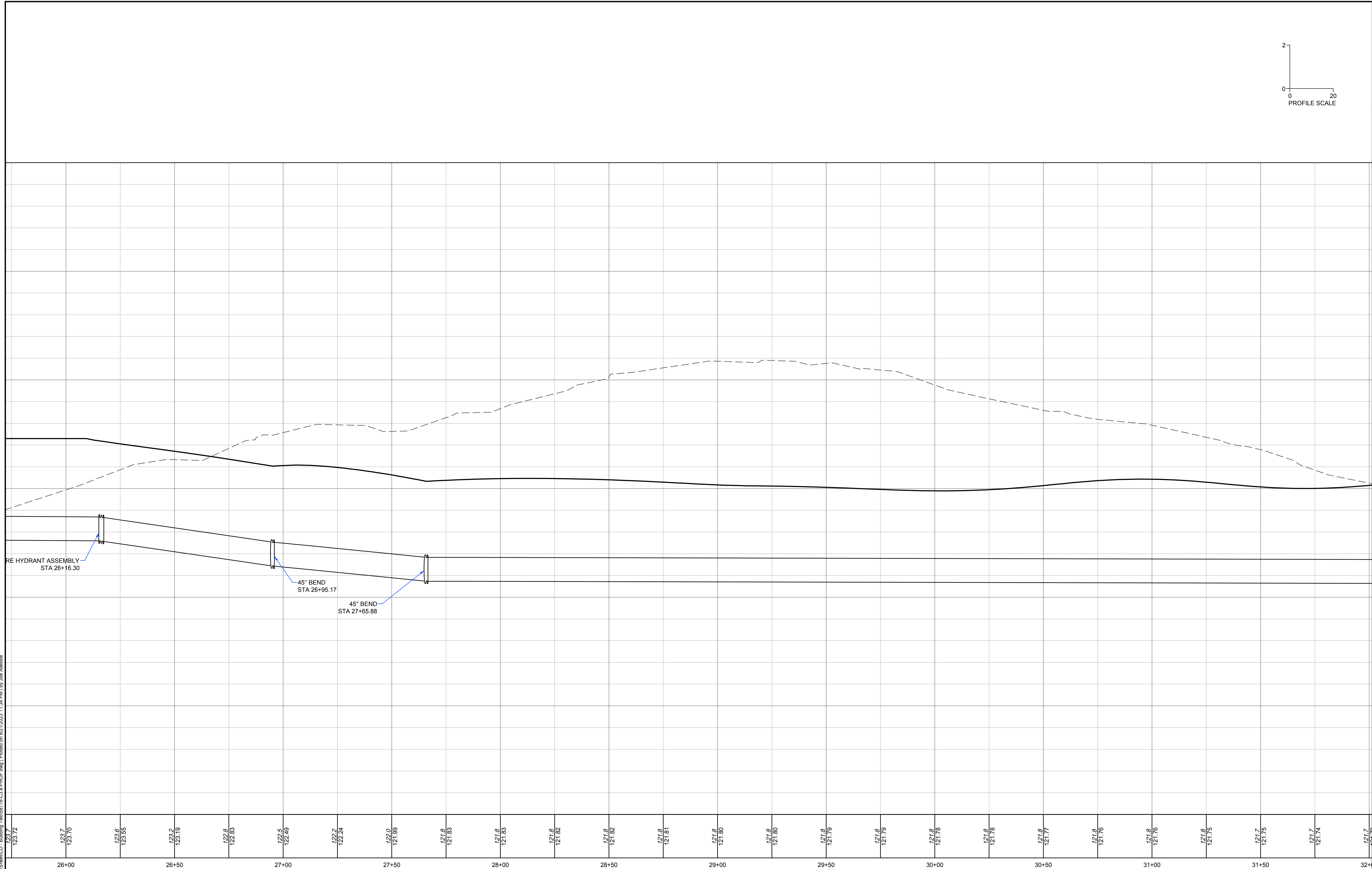
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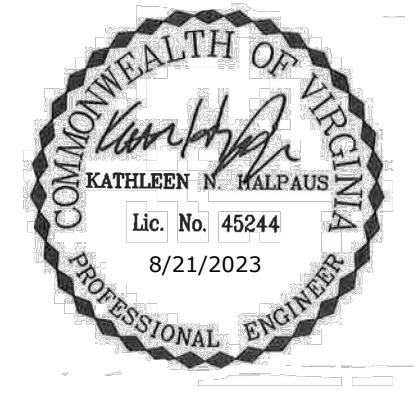
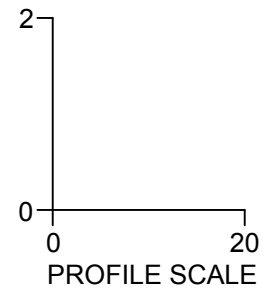
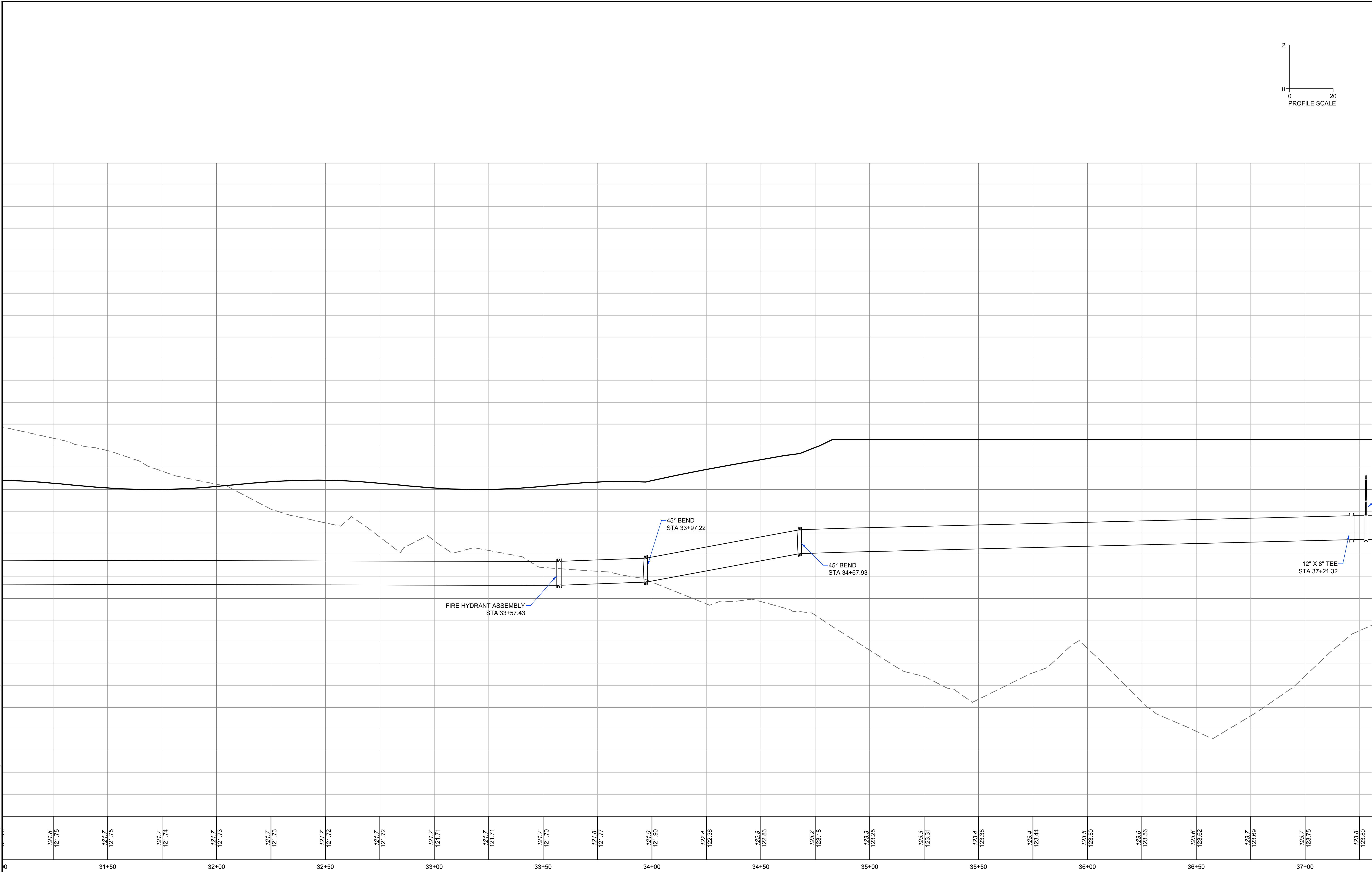
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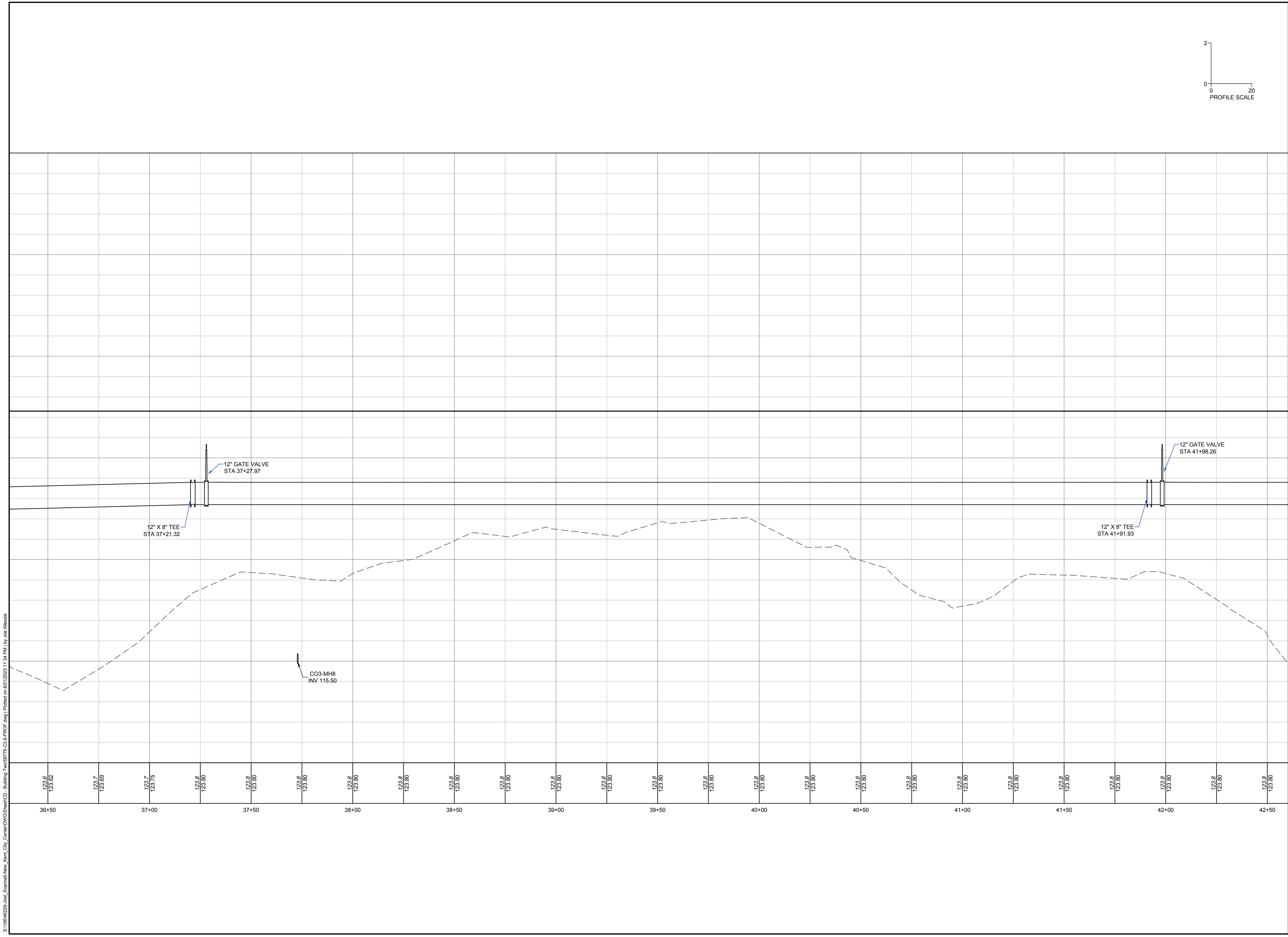
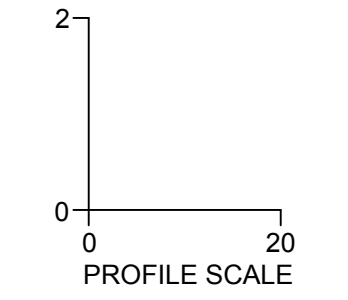
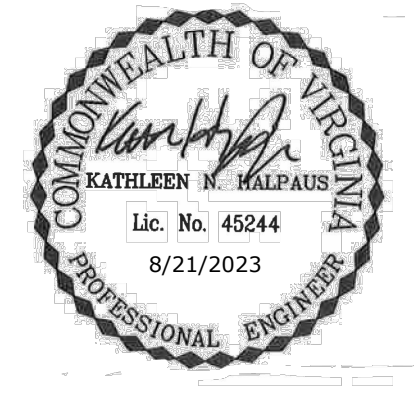
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 NEW KENT COUNTY - VIRGINIA

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58776

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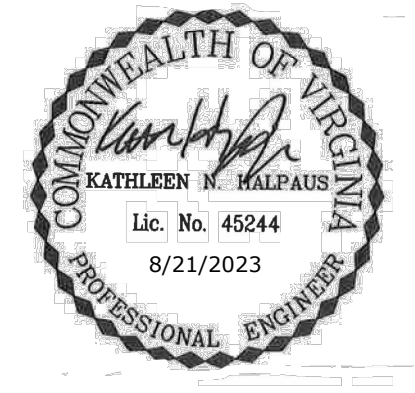
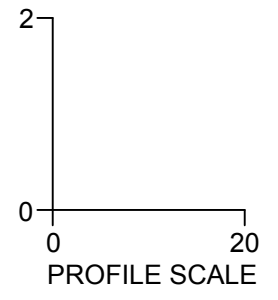
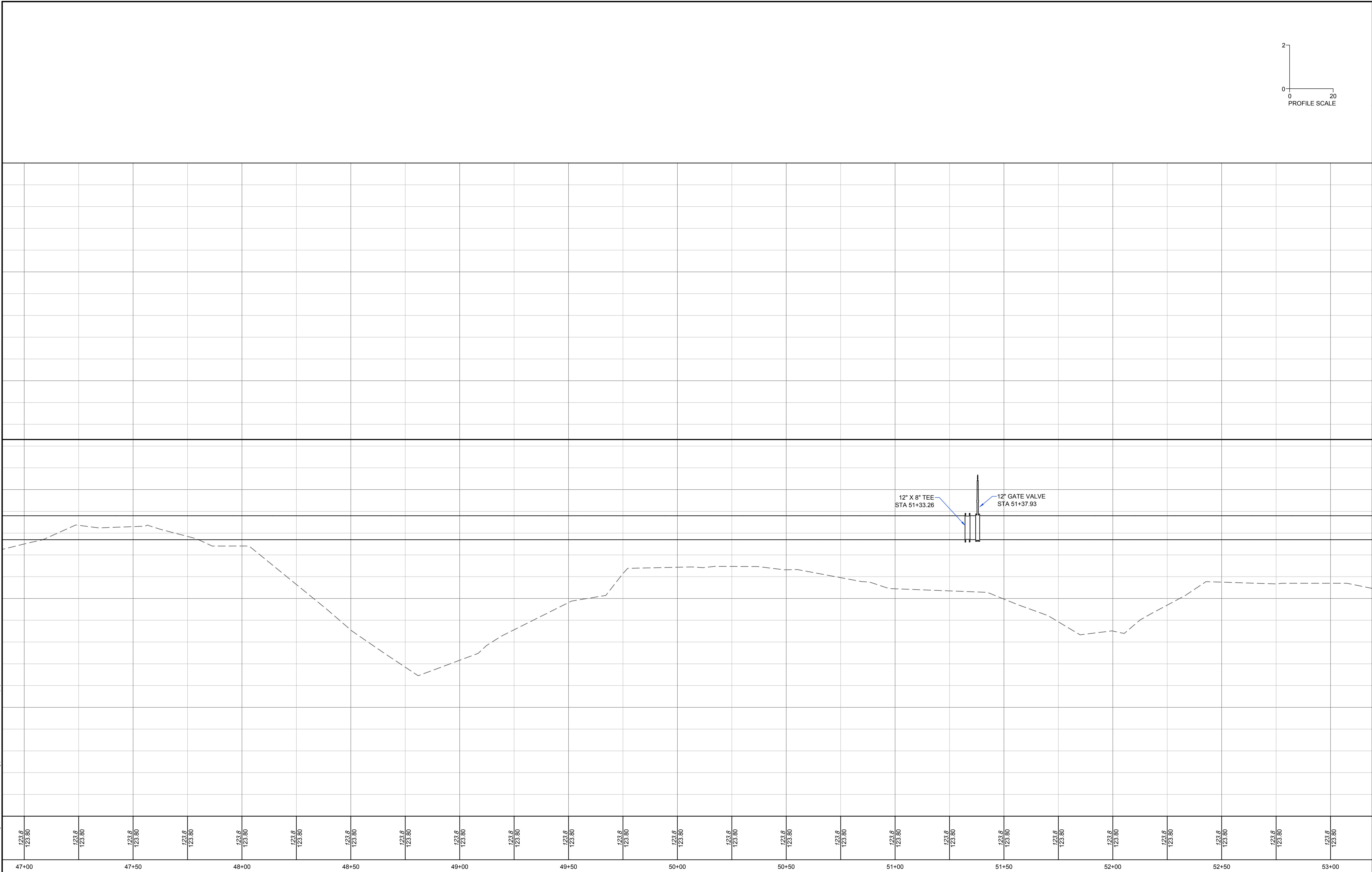
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WATERLINE PROFILES

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SHEET NO.	C3.17

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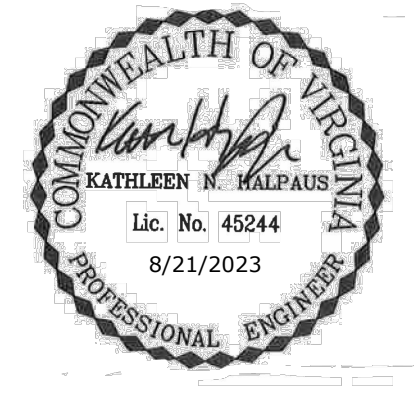
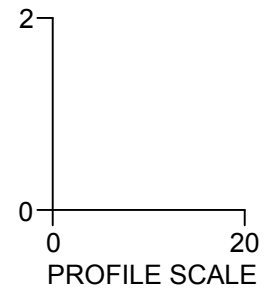
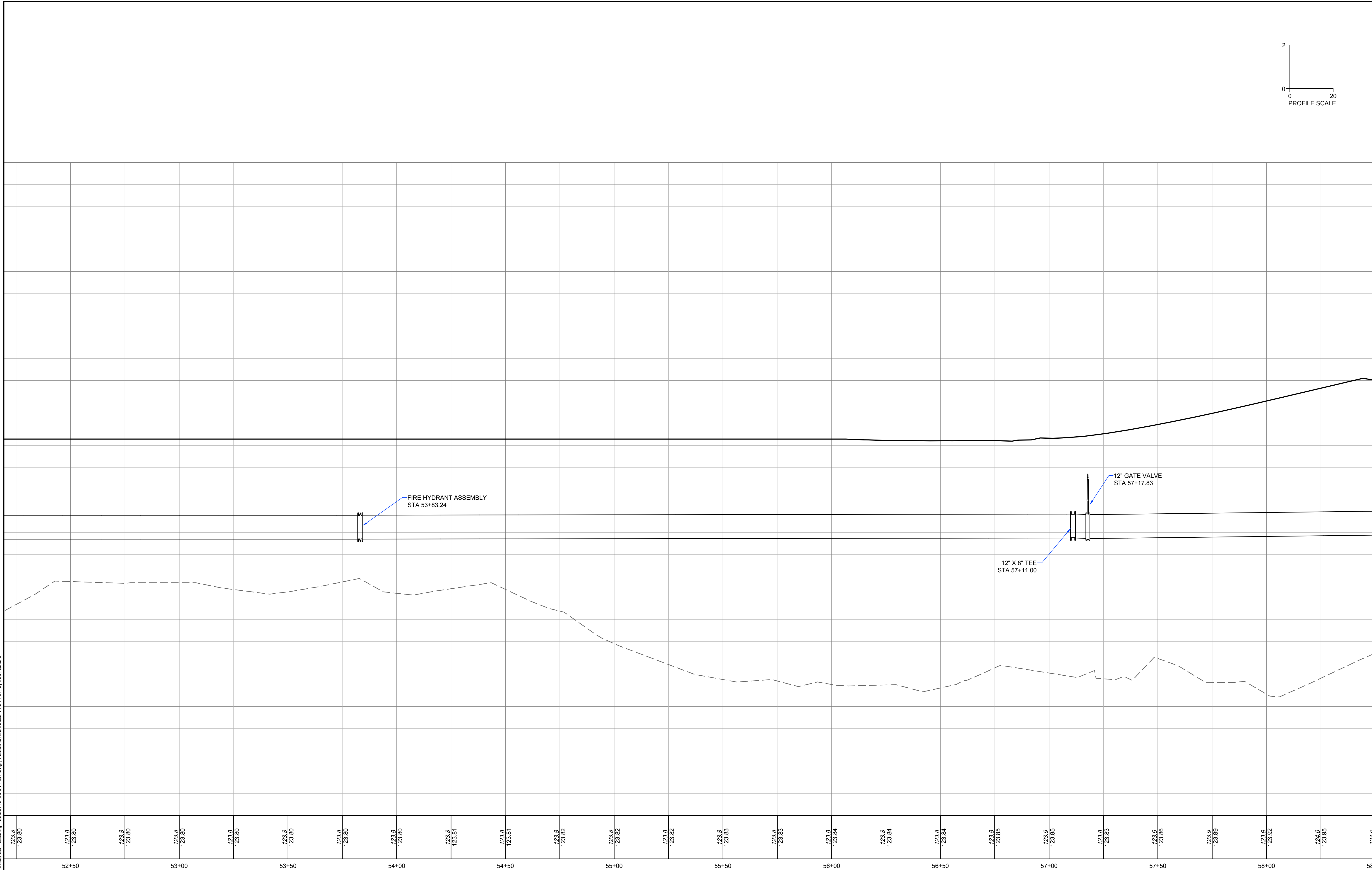
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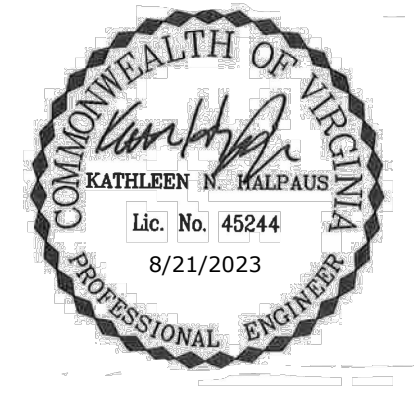
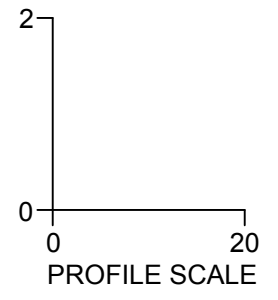
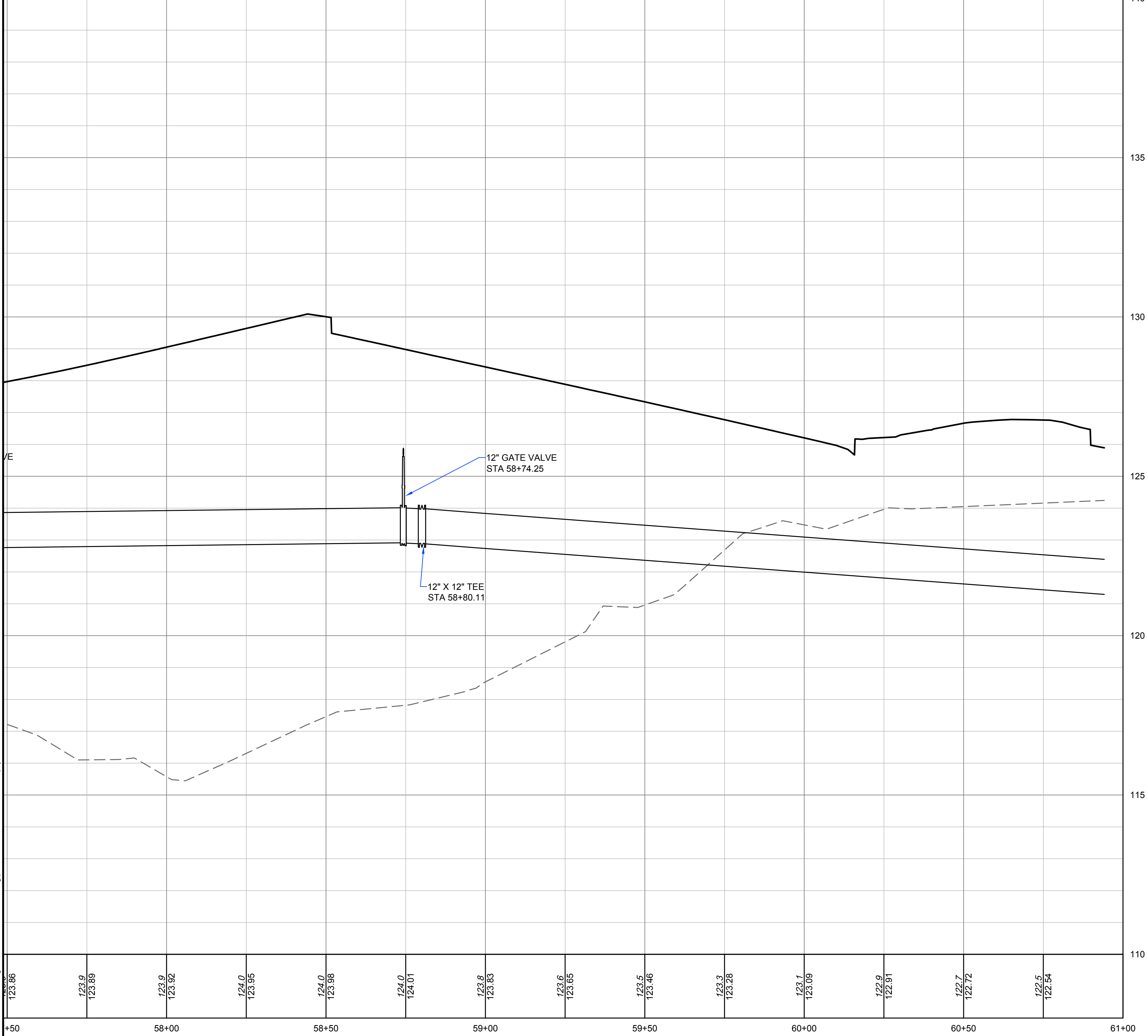
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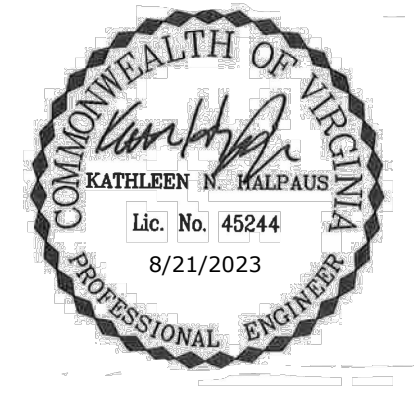
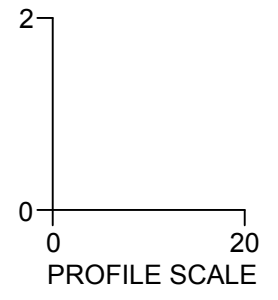
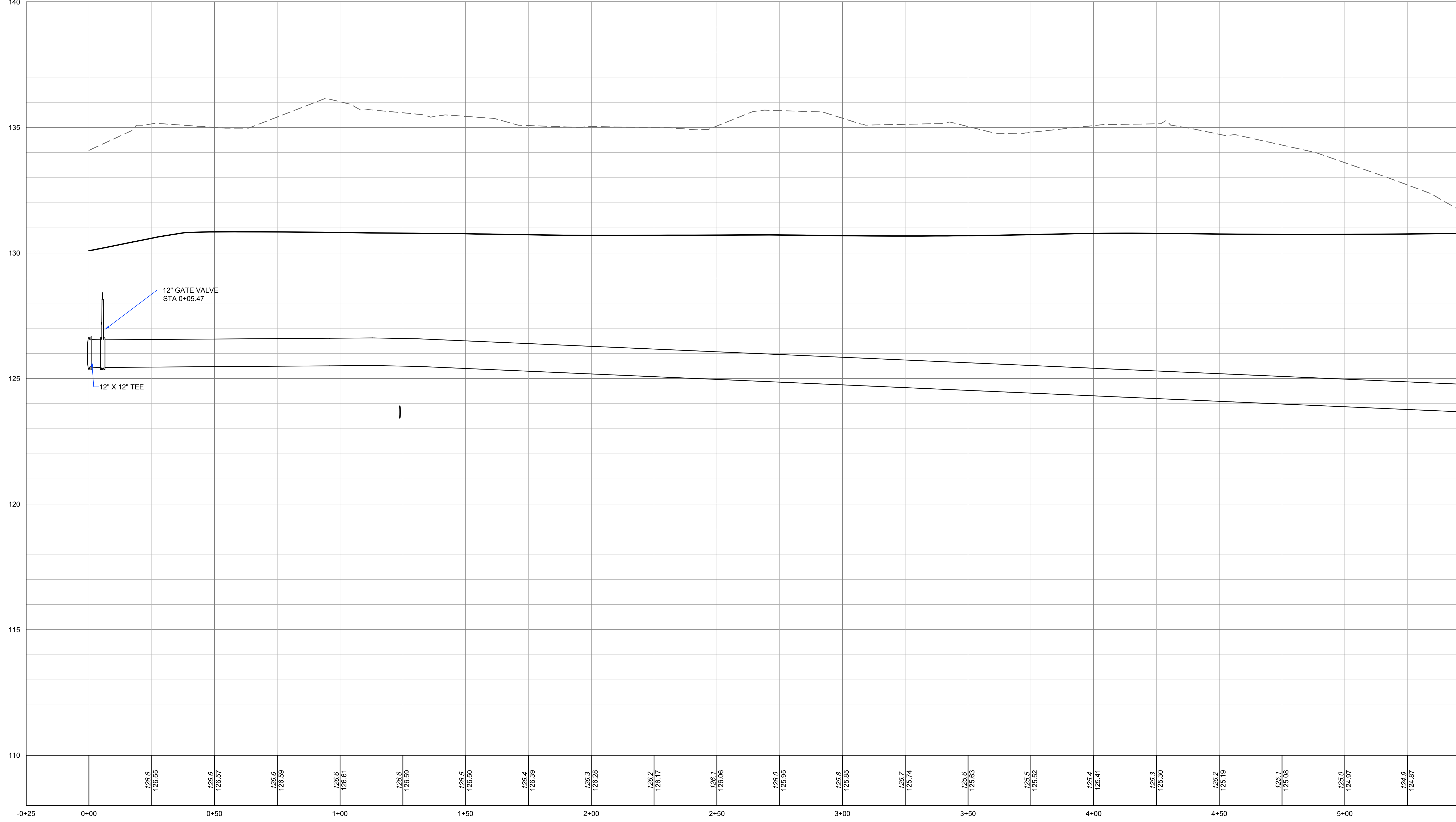
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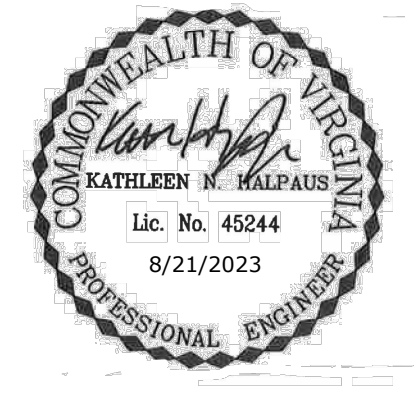
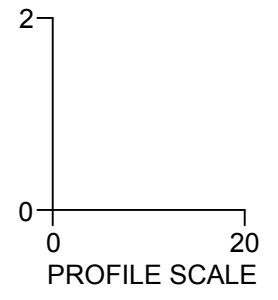
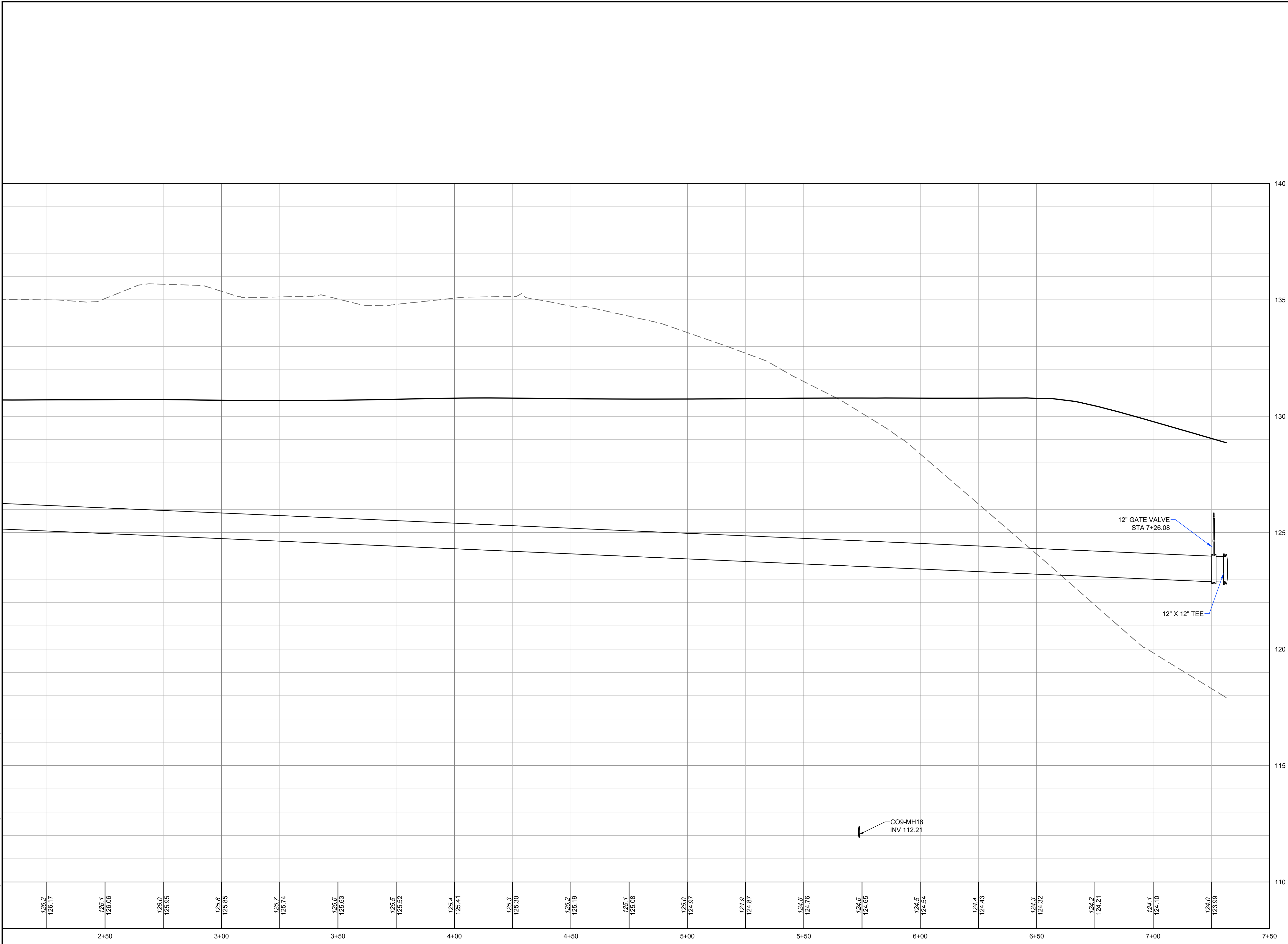
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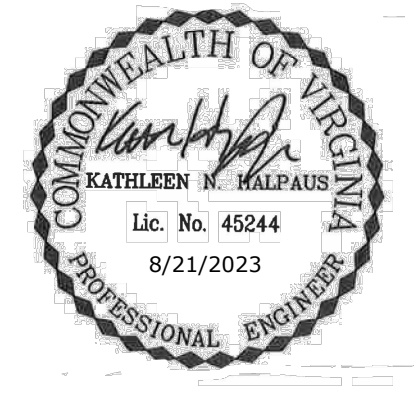
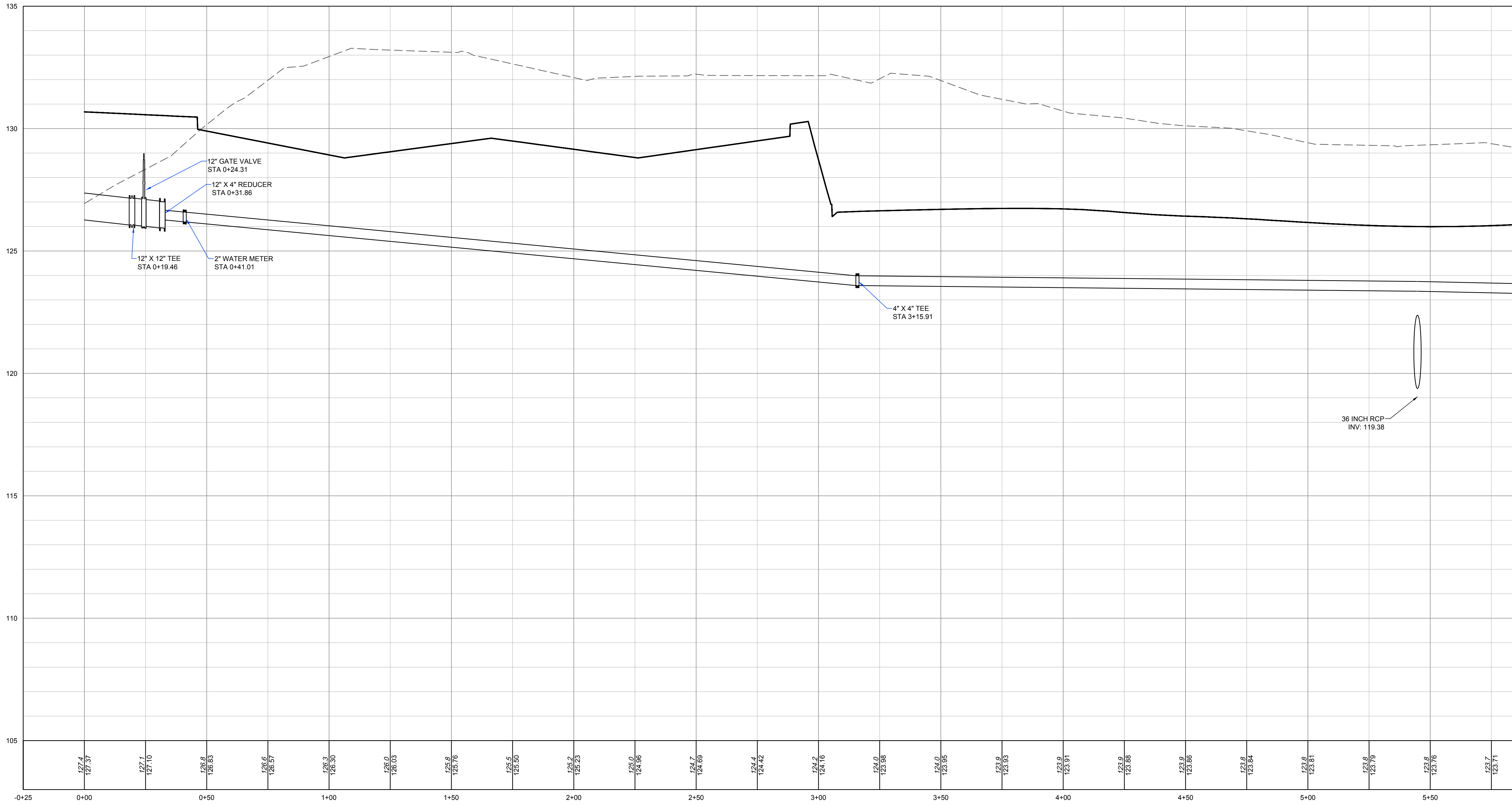
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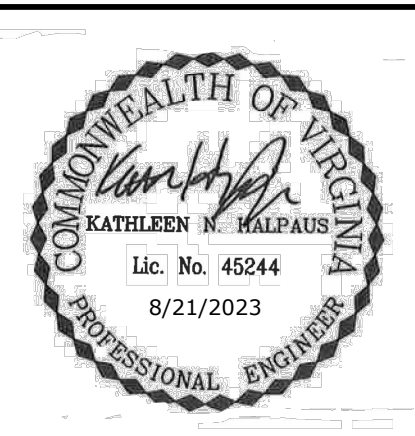
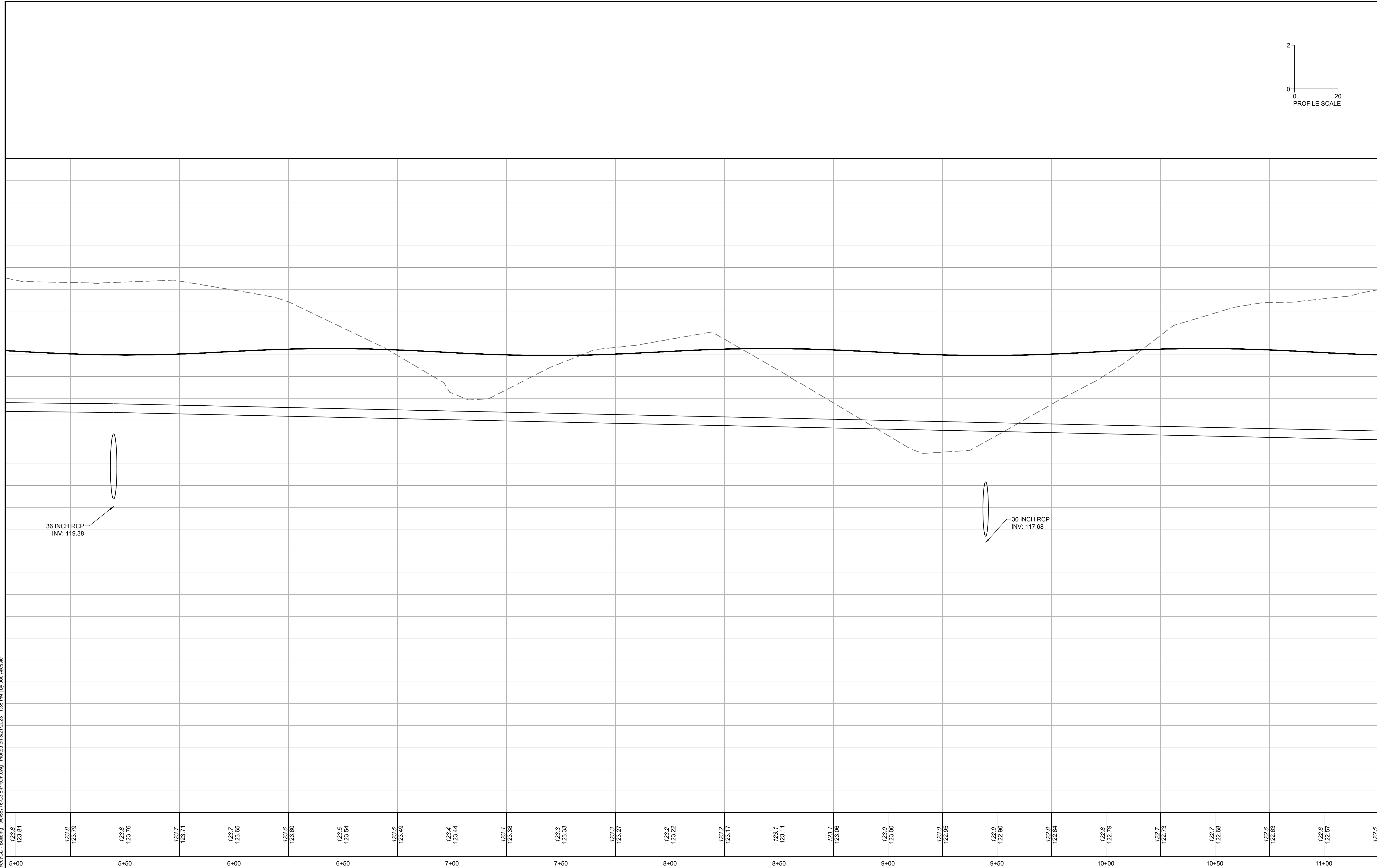
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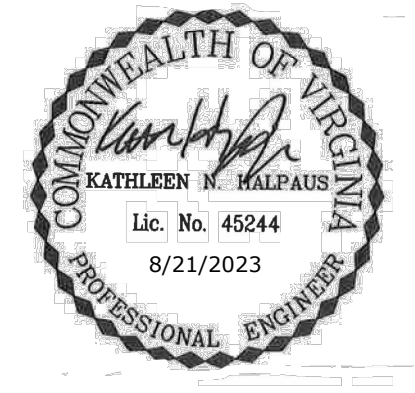
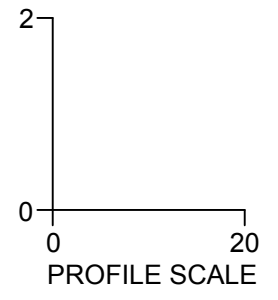
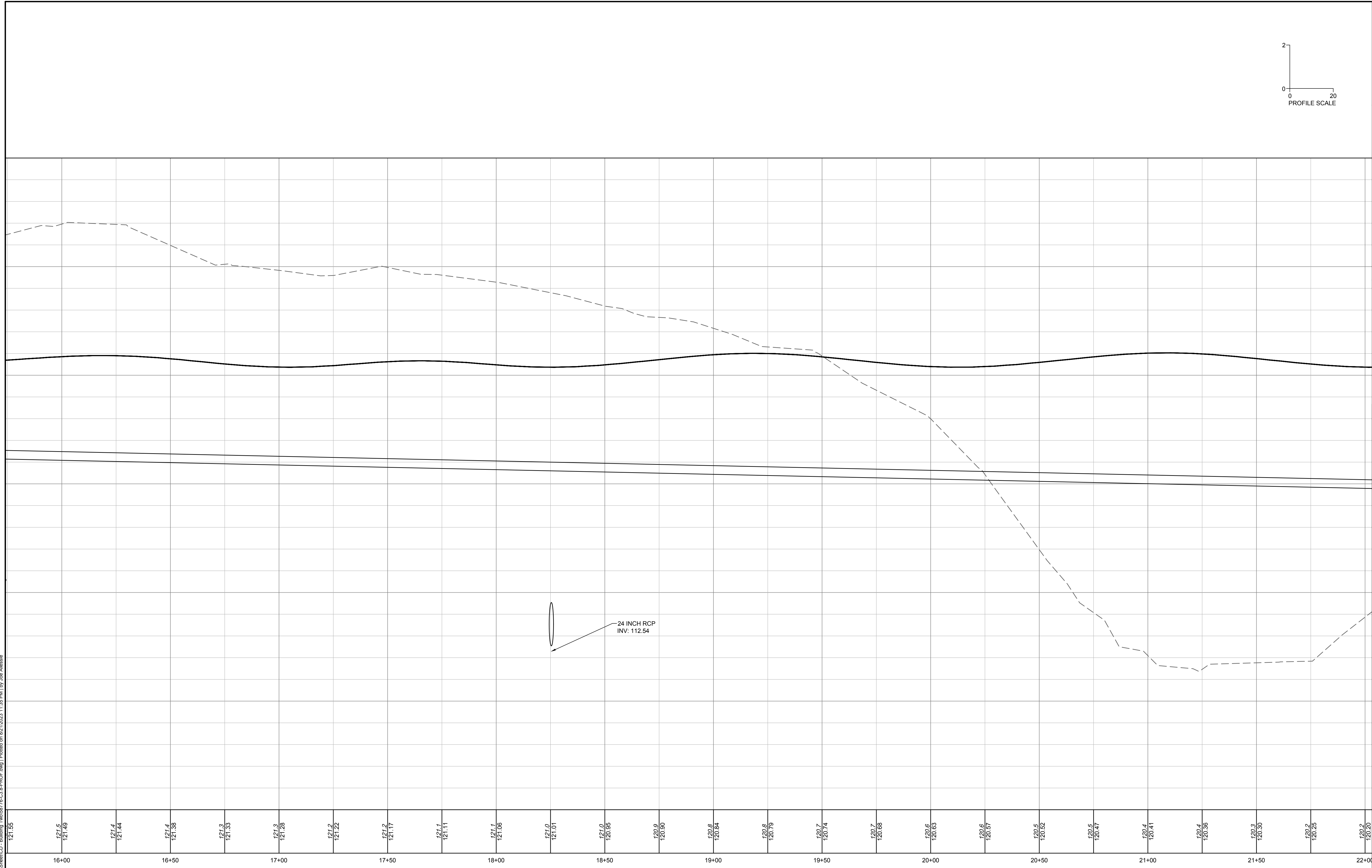
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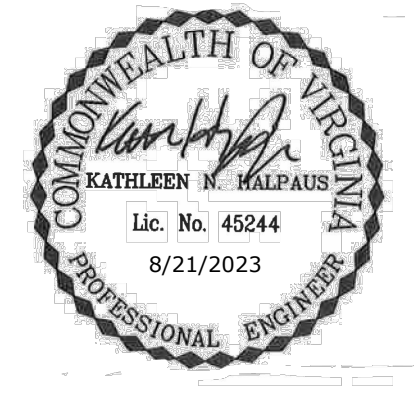
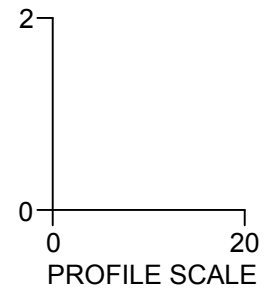
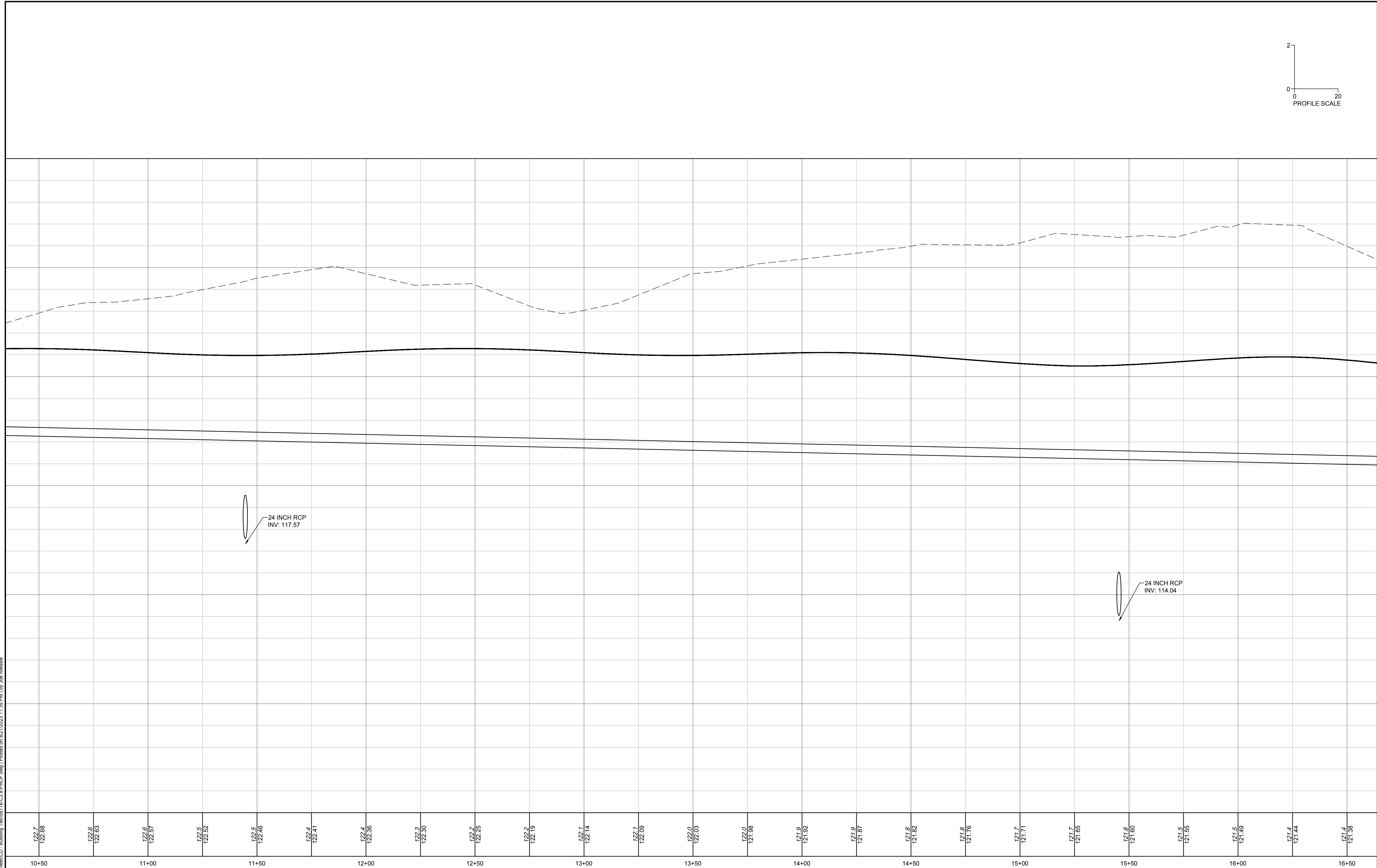
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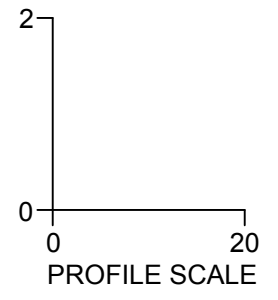
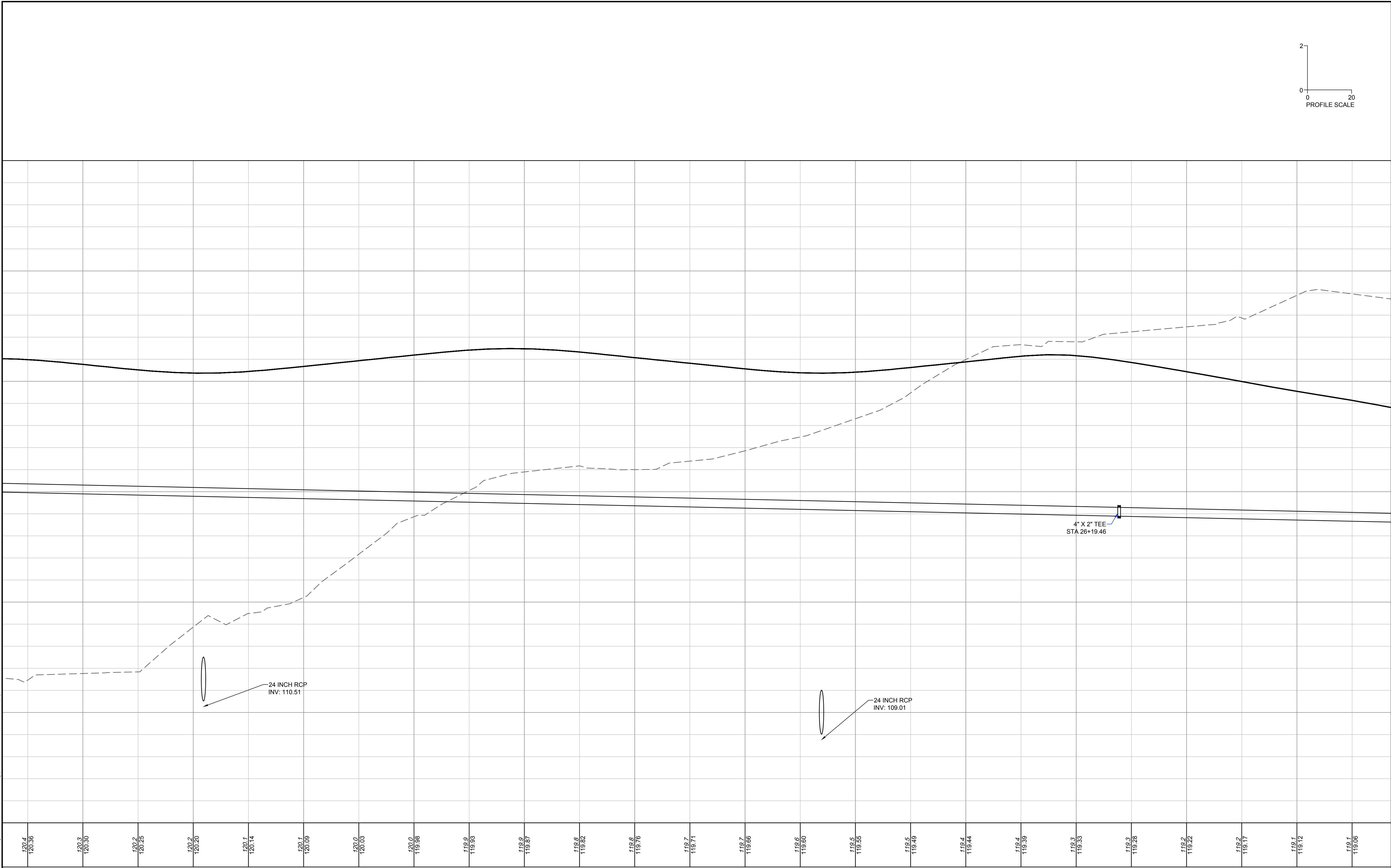
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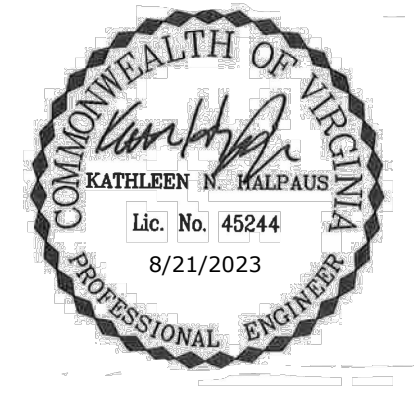
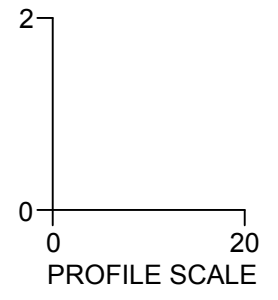
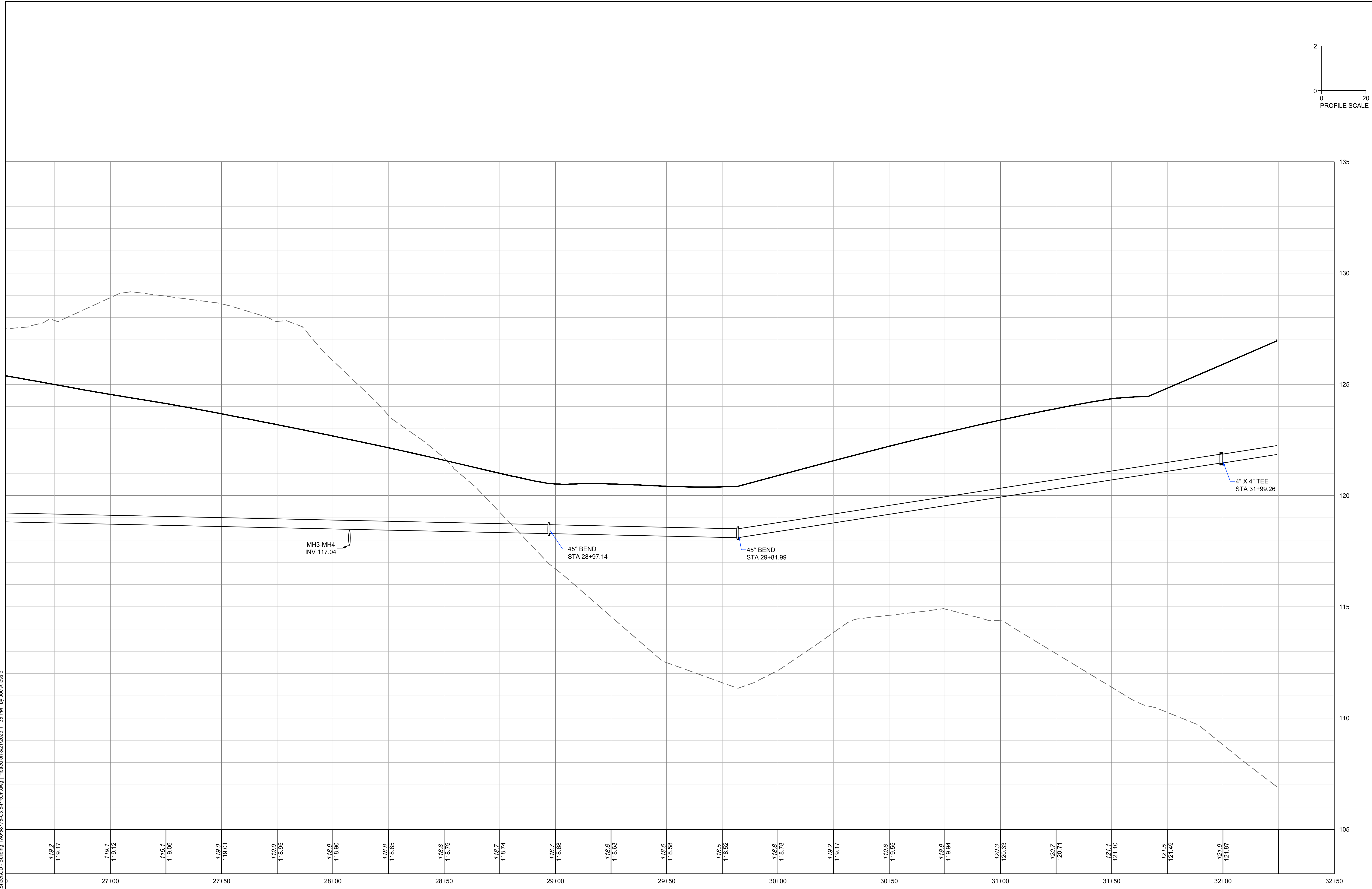
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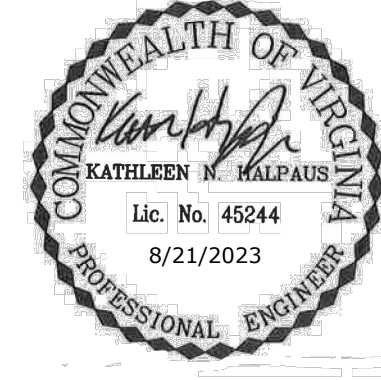
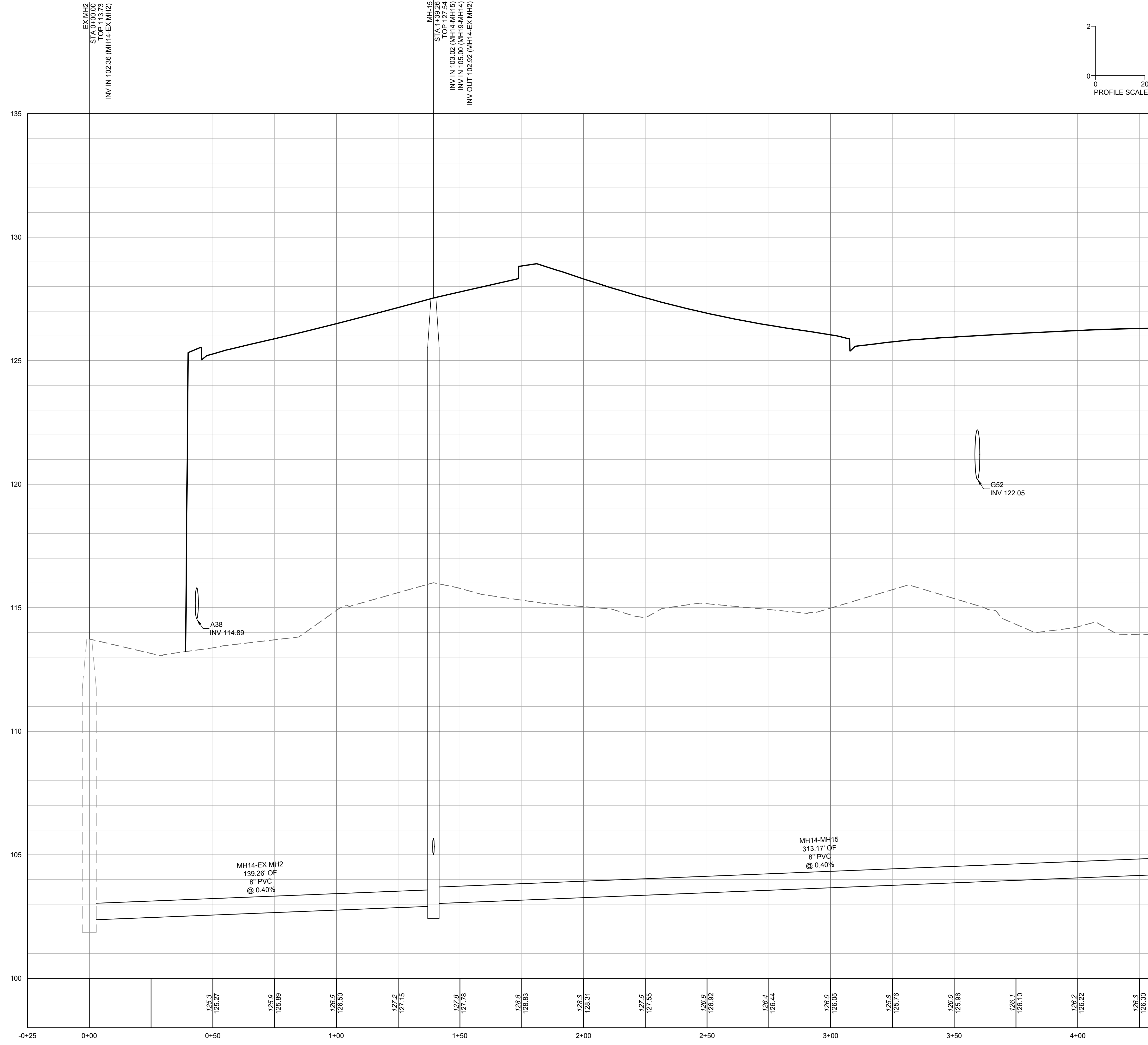
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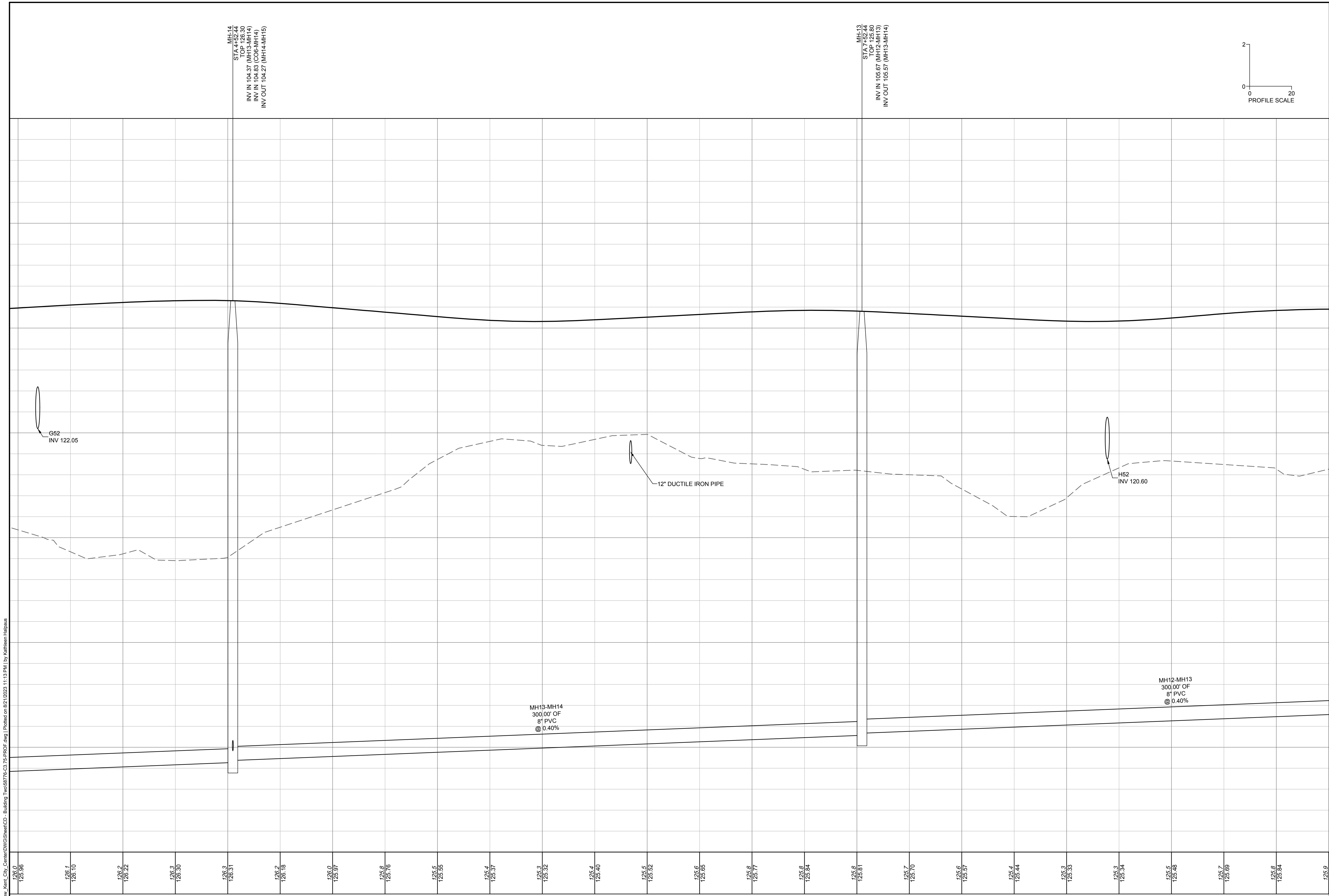
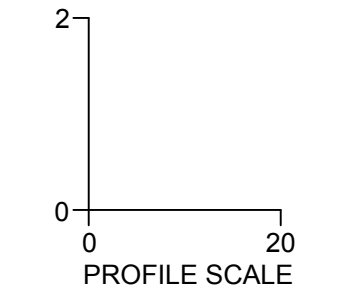
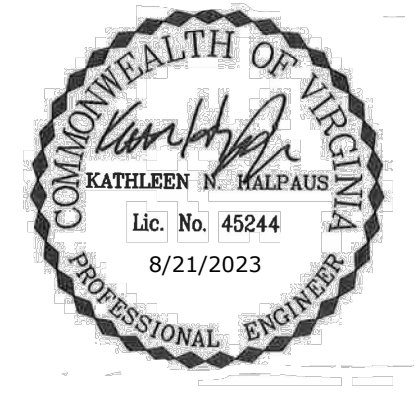
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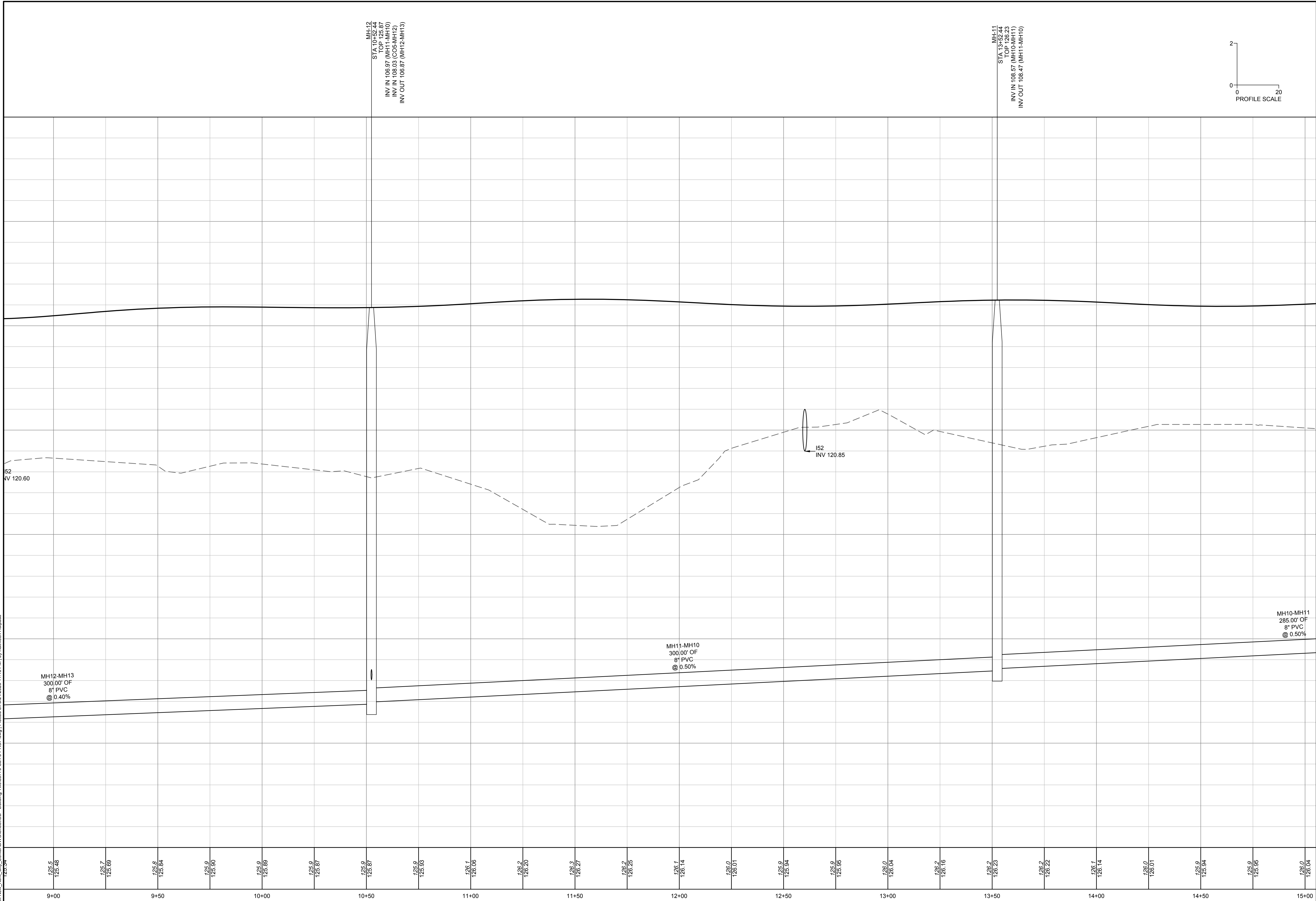
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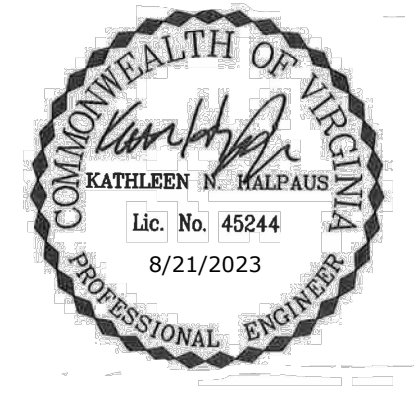
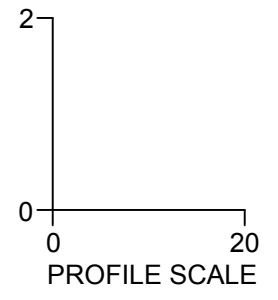
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MH-12
 STA 10+52.44
 TOP 125.87
 INV IN 106.97 (MH11-MH10)
 INV IN 108.03 (CO5-MH12)
 INV OUT 106.87 (MH12-MH13)

MH-11
 STA 13+50.00
 TOP 126.23
 INV IN 108.57 (MH10-MH11)
 INV OUT 108.47 (MH11-MH10)



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 NEW KENT COUNTY - VIRGINIA

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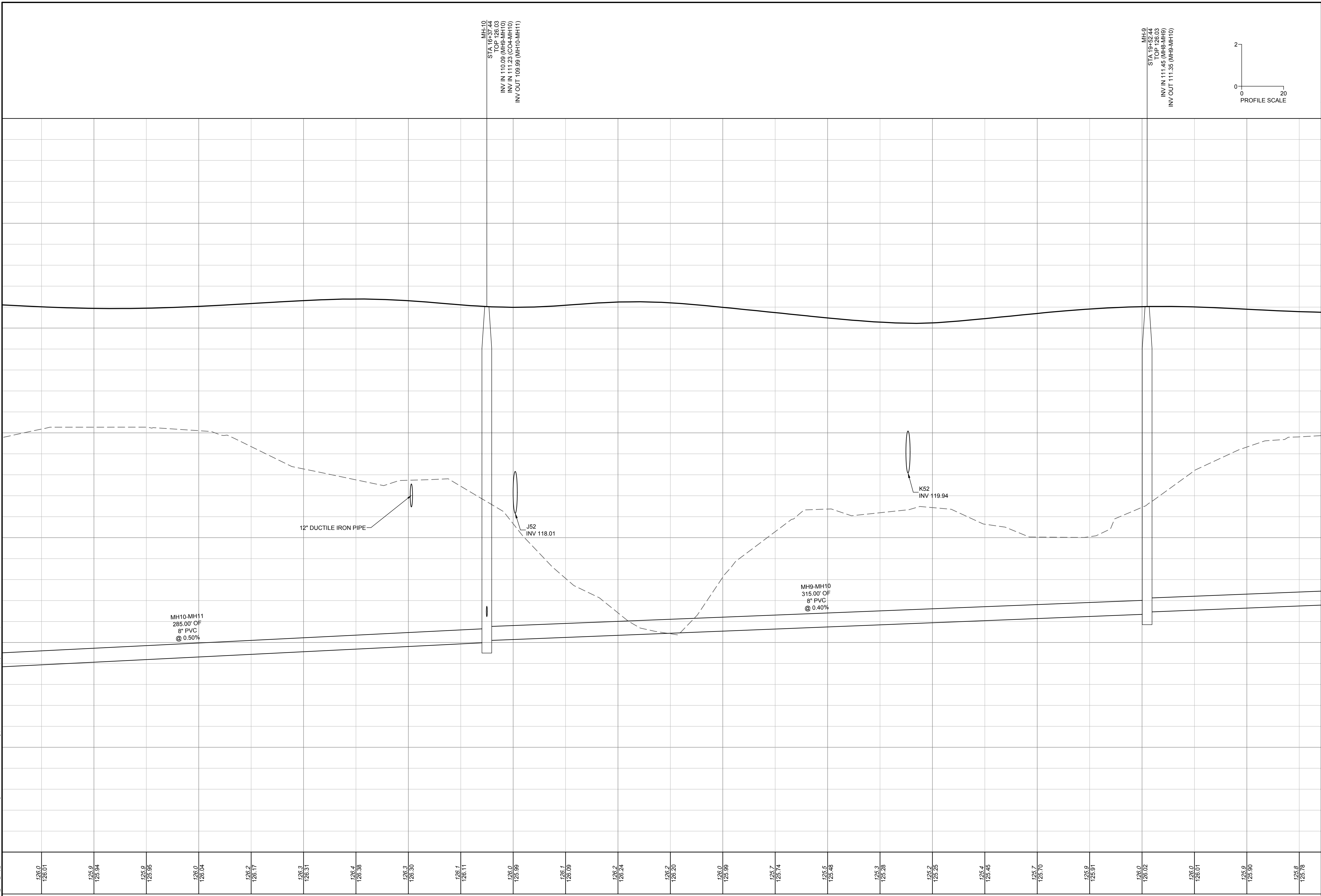
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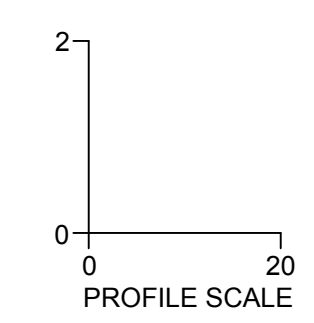
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SANITARY SEWER 1 PROFILE

MH-10
 STA 16+37.44
 INV IN 110.09 (MH9-MH10)
 INV IN 111.23 (CO4-MH10)
 INV OUT 109.99 (MH10-MH11)

MH-9
 STA 19+52.44
 TOP 126.03
 INV IN 111.45 (MH8-MH9)
 INV OUT 111.35 (MH9-MH10)

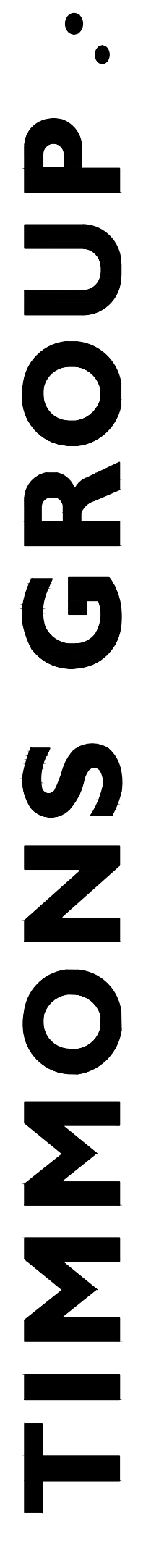


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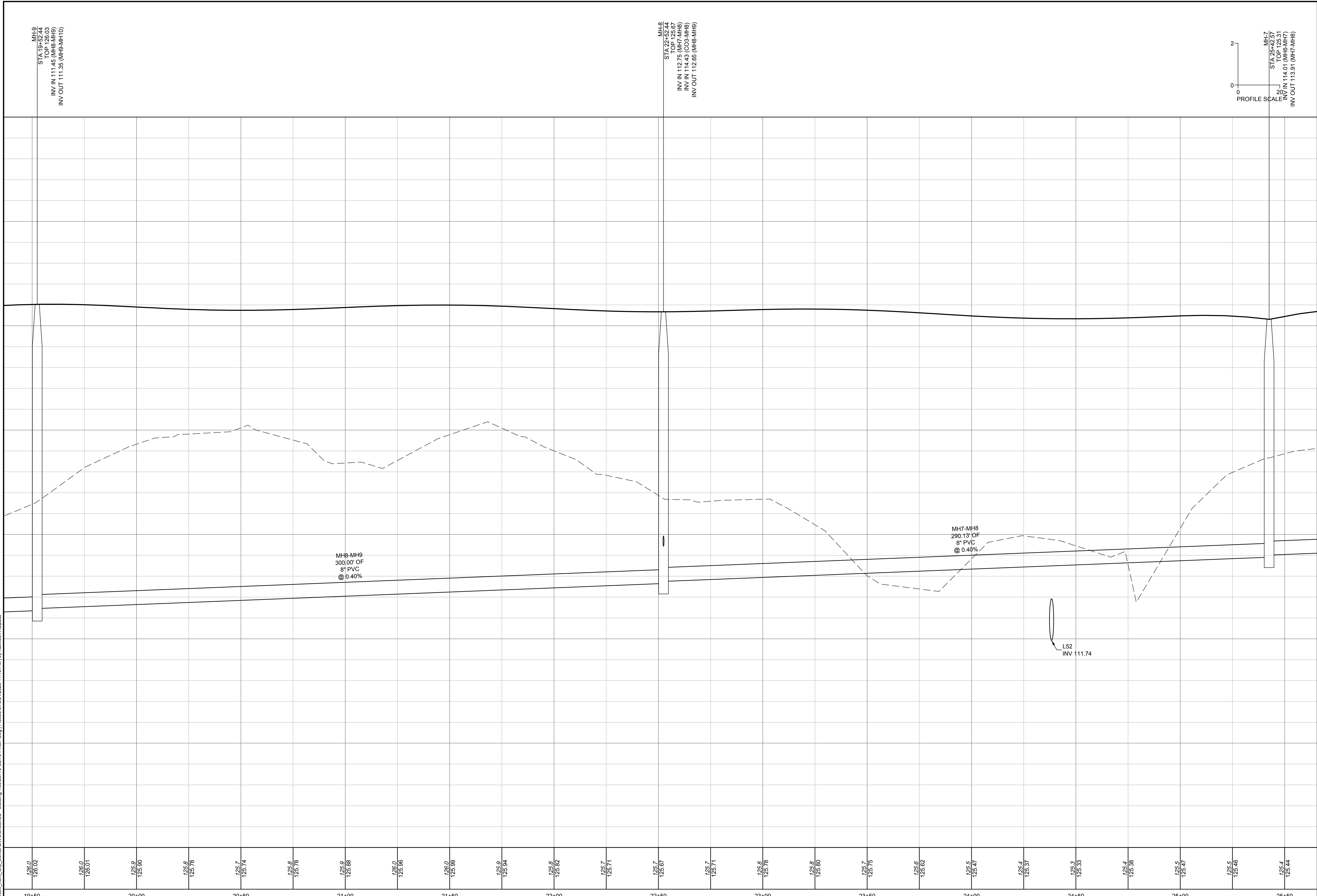


FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA
SANITARY SEWER PROFILE

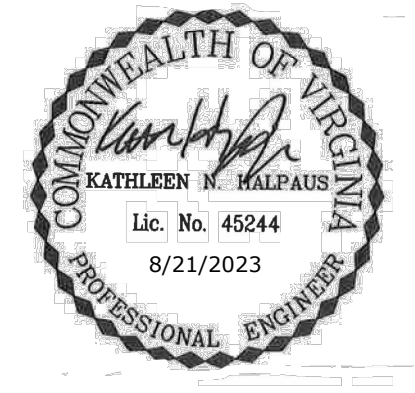
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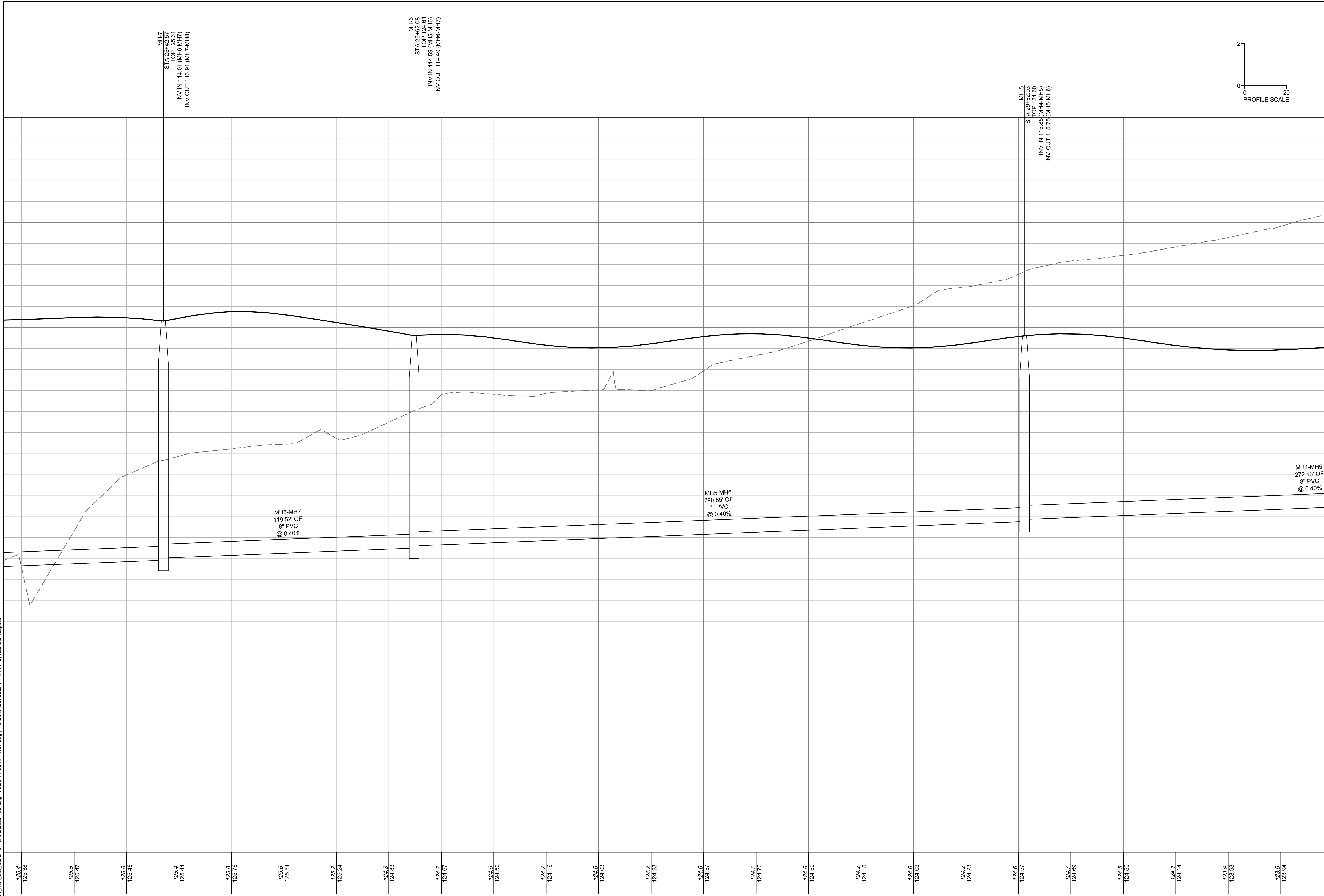
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NEW KENT COUNTY - VIRGINIA

SANITARY SEWER PROFILE

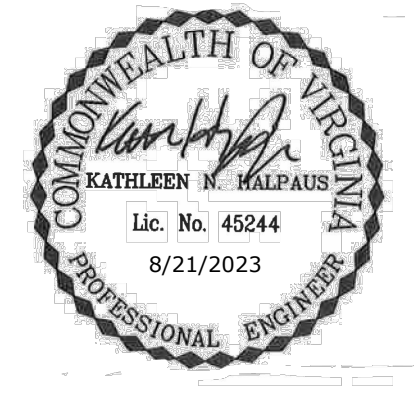
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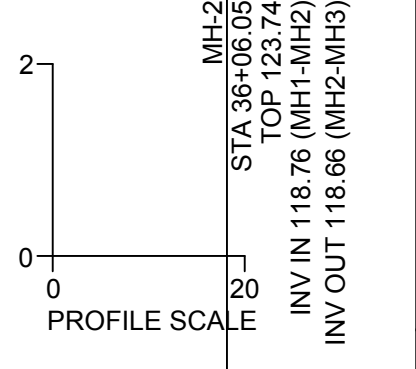
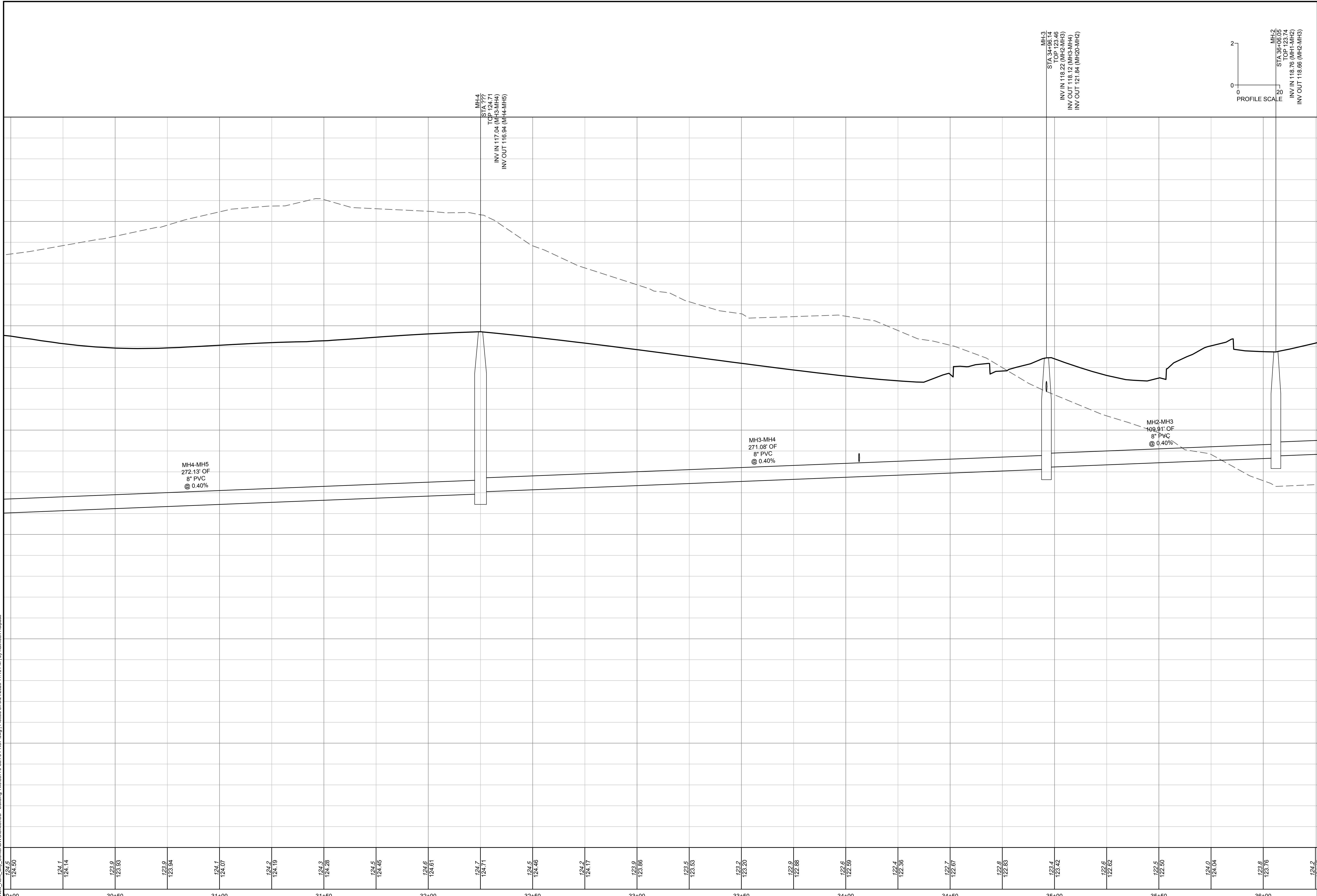
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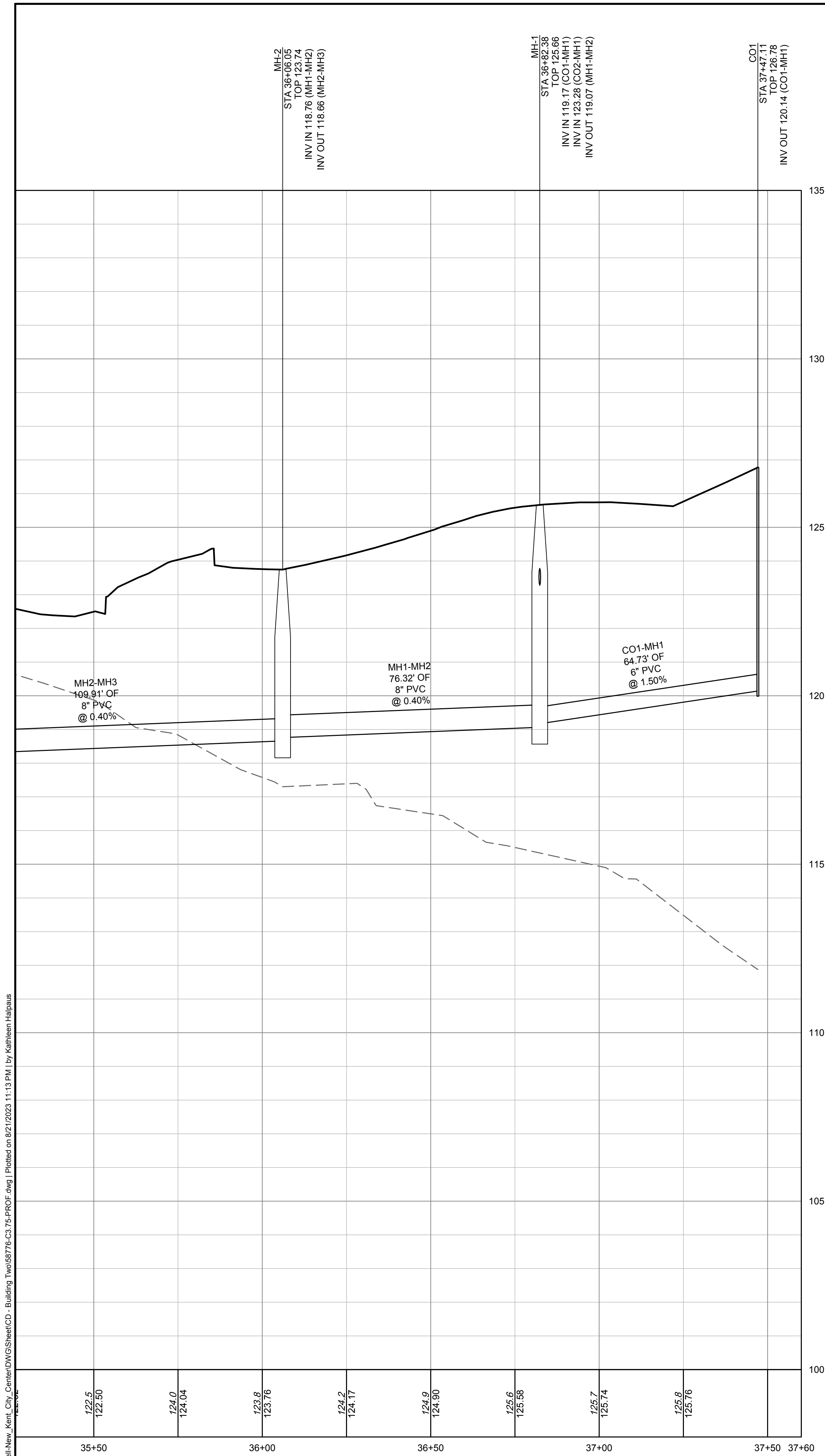
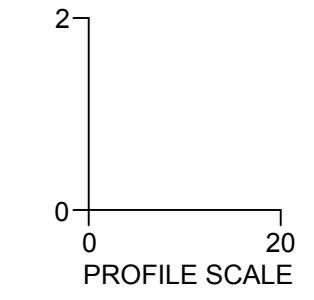
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SANITARY SEWER 1 PROFILE



PIPE TABLE				
PIPE NAME	SIZE	LENGTH	SLOPE	BEARING
CO1-MH1	6"	64.73 LF	1.50%	S80° 43' 49"W
CO2-MH1	6"	20.05 LF	1.64%	S9° 16' 11"E
MH1-MH2	8"	76.32 LF	0.40%	S80° 43' 49"W
MH2-MH3	8"	109.91 LF	0.40%	N51° 21' 39"W
MH3-MH4	8"	271.08 LF	0.40%	N78° 09' 02"W
MH5-MH6	8"	290.85 LF	0.40%	S80° 43' 49"W
MH6-MH7	8"	119.52 LF	0.40%	N54° 01' 34"W
MH7-MH8	8"	290.13 LF	0.40%	N9° 16' 11"W
MH8-MH9	8"	300.00 LF	0.40%	N9° 16' 11"W
MH9-MH10	8"	315.00 LF	0.40%	N9° 16' 11"W
MH10-MH11	8"	285.00 LF	0.50%	N9° 16' 11"W
MH11-MH10	8"	300.00 LF	0.50%	N9° 16' 11"W
MH12-MH13	8"	300.00 LF	0.40%	N9° 16' 11"W
MH13-MH14	8"	300.00 LF	0.40%	N9° 16' 11"W
MH14-MH15	8"	313.17 LF	0.40%	N9° 16' 11"W
MH19-MH14	8"	46.83 LF	2.50%	S9° 16' 11"E
MH14-EX MH2	8"	139.26 LF	0.40%	S80° 43' 49"W
MH16-MH17	8"	250.00 LF	2.50%	S80° 43' 49"W
MH17-MH18	8"	200.00 LF	2.50%	S80° 43' 49"W
MH18-MH19	8"	200.00 LF	2.50%	S80° 43' 49"W
CO3-MH8	6"	102.44 LF	1.04%	S80° 43' 49"W
CO4-MH10	6"	102.44 LF	1.04%	S80° 43' 49"W
CO5-MH12	6"	102.44 LF	1.04%	S80° 43' 49"W
CO6-MH14	6"	102.44 LF	1.04%	S80° 43' 49"W
CO8-MH16	6"	83.83 LF	1.00%	N9° 16' 11"W
CO9-MH18	6"	83.83 LF	1.00%	N9° 16' 11"W
MH20-MH2	6"	172.67 LF	-0.87%	S9° 16' 11"E
CO7-MH20	6"	33.28 LF	0.50%	S9° 16' 11"E
MH4-MH5	8"	272.13 LF	0.40%	S80° 43' 49"W

SANITARY SEWER SCHEDULE	
CO1	TOP = 126.78 INV OUT = 120.14 (W)
CO2	TOP = 126.81 INV OUT = 123.61 (S)
CO3	TOP = 127.90 INV OUT = 115.50 (W)
CO4	TOP = 127.90 INV OUT = 112.30 (W)
CO5	TOP = 127.90 INV OUT = 109.10 (W)
CO6	TOP = 127.90 INV OUT = 105.90 (W)
CO7	TOP = 124.13 INV OUT = 123.62 (S)
CO8	TOP = 131.79 INV OUT = 123.72 (N)
CO9	TOP = 131.79 INV OUT = 112.21 (N)
EX MH2	TOP = 113.73 INV IN = 102.36 (E)
MH-1	TOP = 125.66 INV IN = 119.17 (E) INV IN = 123.28 (N) INV OUT = 119.07 (W)
MH-2	TOP = 123.74 INV IN = 118.76 (E) INV OUT = 118.66 (NW)
MH-3	TOP = 123.46 INV IN = 118.22 (SE) INV OUT = 118.12 (W) INV OUT = 121.84 (N)
MH-4	TOP = 124.71 INV IN = 117.04 (E) INV OUT = 116.94 (W)
MH-5	TOP = 124.60 INV IN = 115.85 (E) INV OUT = 115.75 (W)
MH-6	TOP = 124.61 INV IN = 114.59 (E) INV OUT = 114.49 (NW)
MH-7	TOP = 125.31 INV IN = 114.01 (SE) INV OUT = 113.91 (N)
MH-8	TOP = 125.67 INV IN = 112.75 (S) INV IN = 114.43 (E) INV OUT = 112.65 (N)
MH-9	TOP = 126.03 INV IN = 111.45 (S) INV OUT = 111.35 (N)
MH-10	TOP = 126.03 INV IN = 110.09 (S) INV IN = 111.23 (E) INV OUT = 109.99 (N)
MH-11	TOP = 126.23 INV IN = 108.57 (S) INV OUT = 108.47 (N)
MH-12	TOP = 125.87 INV IN = 106.97 (S) INV IN = 108.03 (E) INV OUT = 106.87 (N)
MH-13	TOP = 125.80 INV IN = 105.67 (S) INV OUT = 105.57 (N)
MH-14	TOP = 126.30 INV IN = 104.37 (S) INV IN = 104.83 (E) INV OUT = 104.27 (N)
MH-15	TOP = 127.54 INV IN = 103.02 (S) INV IN = 105.00 (N) INV OUT = 102.92 (W)
MH-16	TOP = 129.91 INV IN = 122.89 (S) INV OUT = 122.72 (W)
MH-17	TOP = 129.74 INV IN = 116.47 (E) INV OUT = 116.37 (W)
MH-18	TOP = 129.82 INV IN = 111.37 (E) INV IN = 111.37 (S) INV OUT = 111.27 (W)
MH-19	TOP = 126.43 INV IN = 106.27 (E) INV OUT = 106.17 (S)
MH-20	TOP = 124.70 INV IN = 123.35 (S) INV IN = 123.45 (N)

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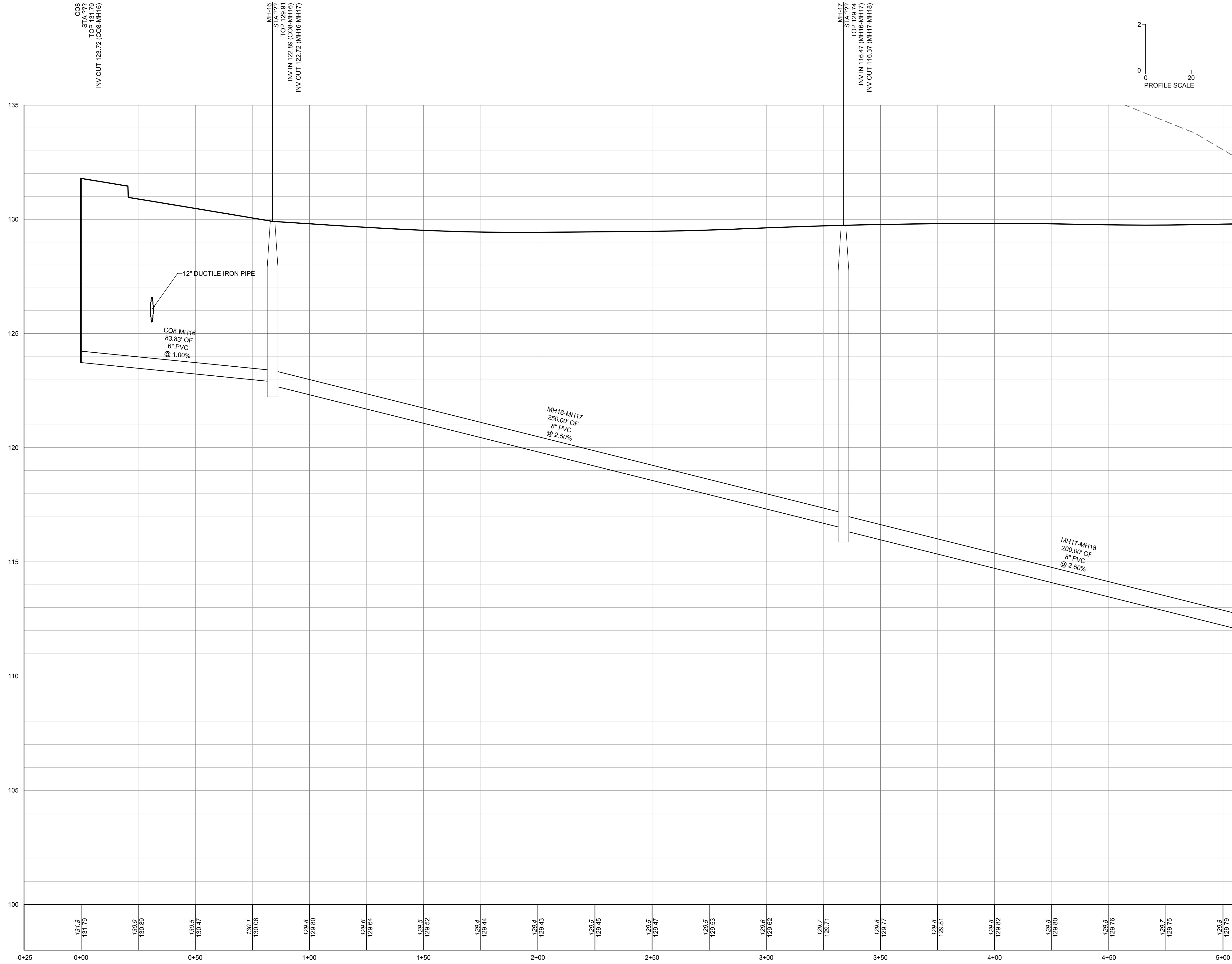
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SANITARY SEWER PROFILE

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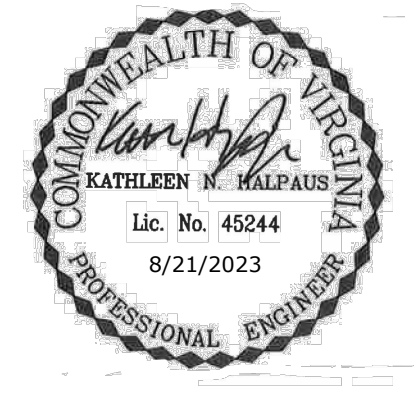
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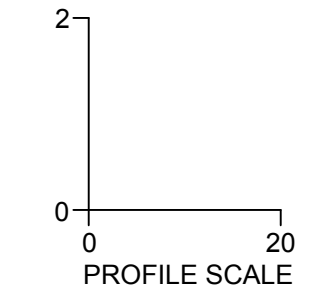
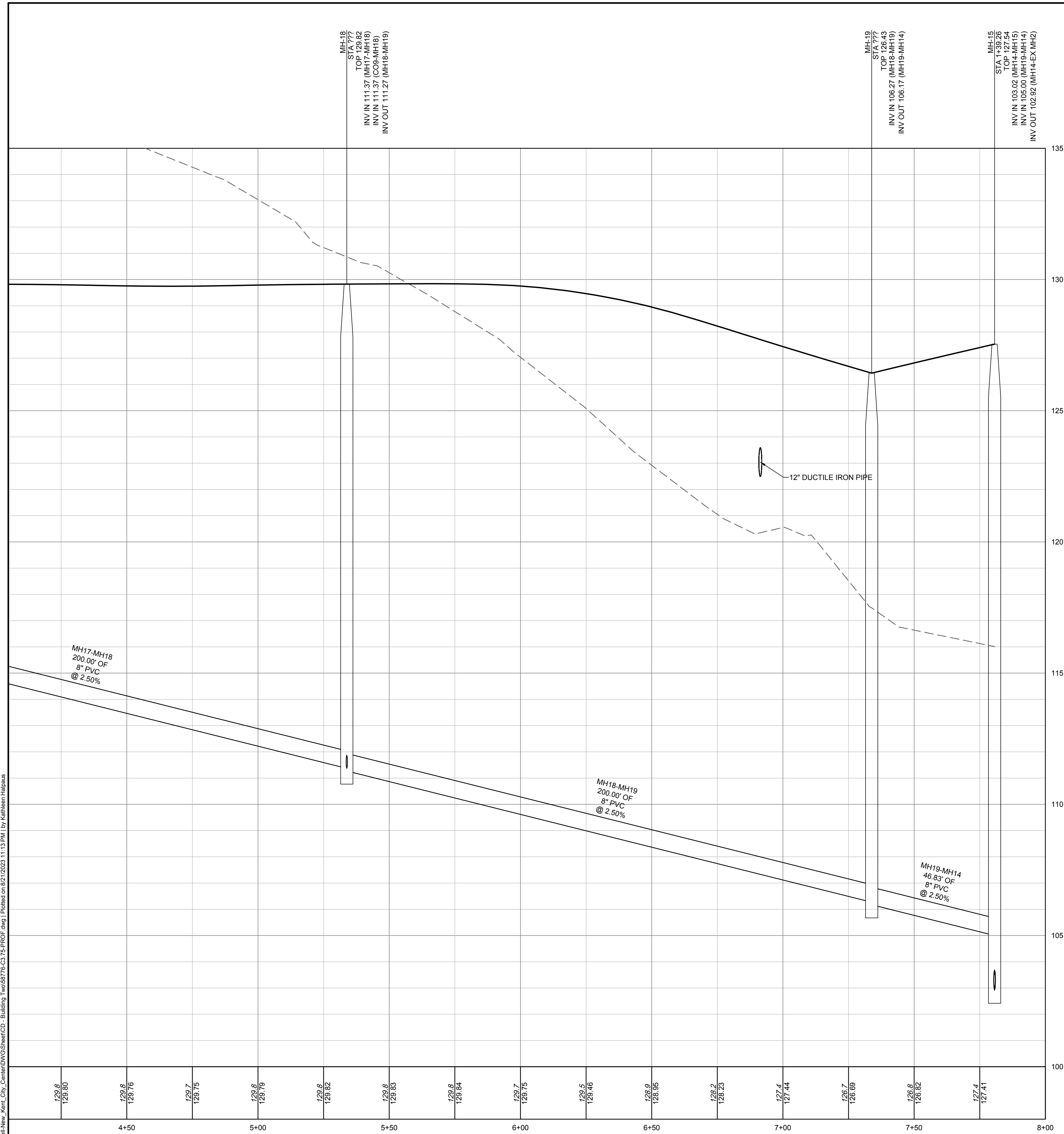
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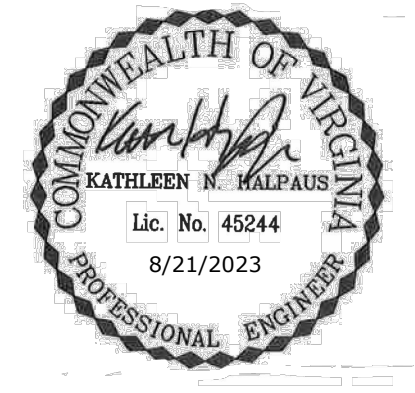
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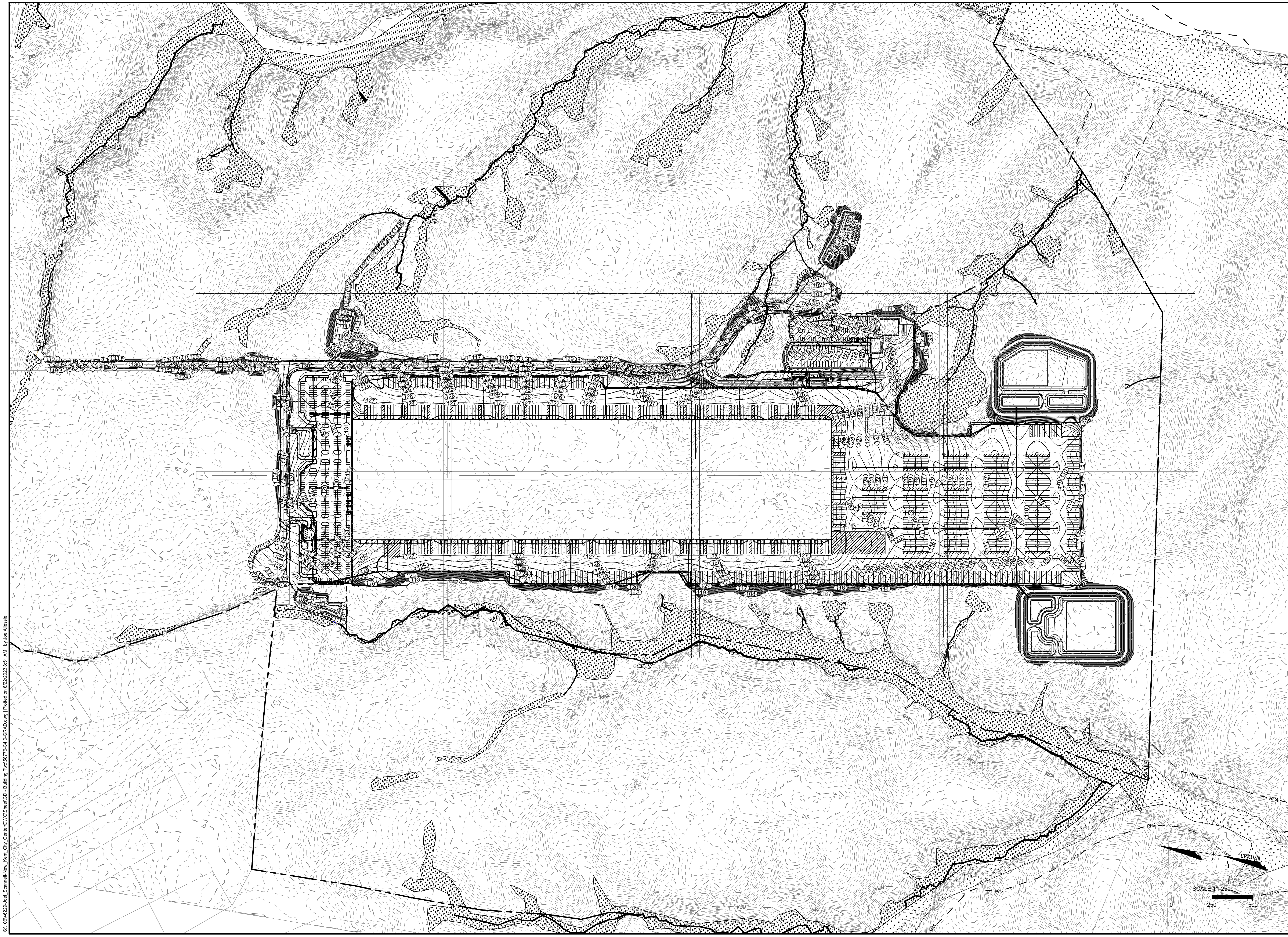
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SCALE
1" = 250'

FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA

GRADING AND DRAINAGE PLAN OVERALL

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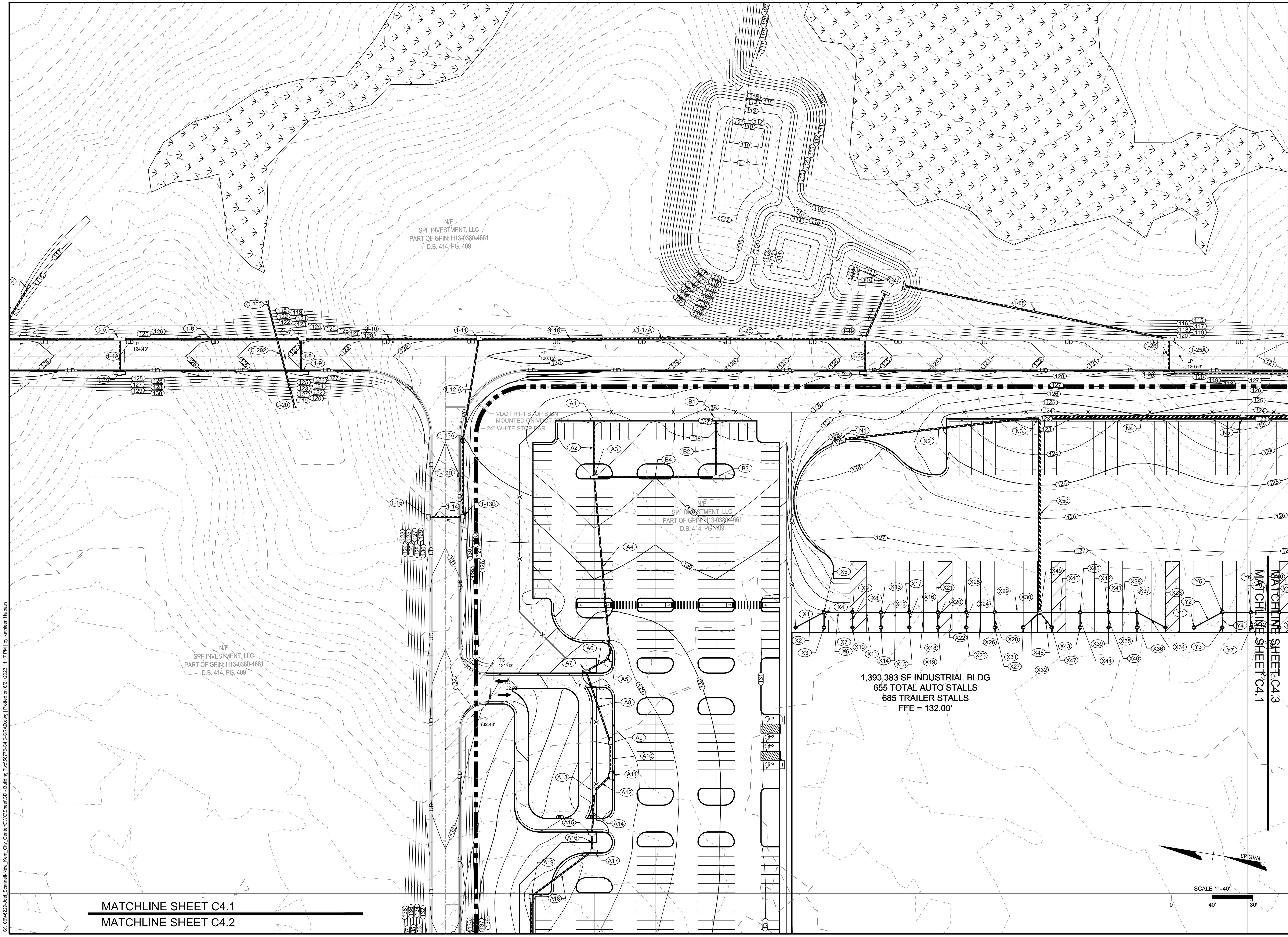


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SCALE 1" = 40'

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FORGE LOGISTICS BUILDING TWO
NEW KENT COUNTY - VIRGINIA
GRADING AND DRAINAGE PLAN
JOB NO. 58776
SHEET NO. C4.1



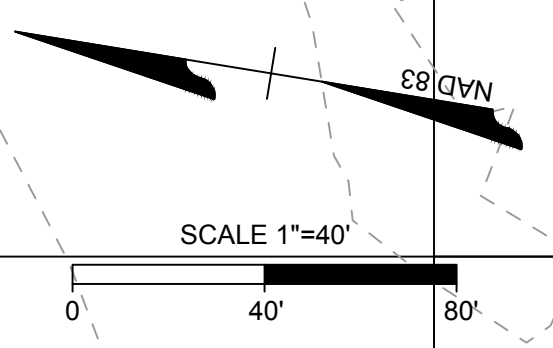
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SPF INVESTMENT, LLC
PART OF GPIN: H13-0380-4661
D.B. 414, PG. 409

N/F
SPF INVESTMENT, LLC
PART OF GPIN: H13-0380-4661
D.B. 414, PG. 409

N/F
SPF INVESTMENT, LLC
PART OF GPIN: H13-0380-4661
D.B. 414, PG. 409

1,393,383 SF INDUSTRIAL BLDG
655 TOTAL AUTO STALLS
685 TRAILER STALLS
FFE = 132.00'

MATCHLINE SHEET C4.3
MATCHLINE SHEET C4.1



MATCHLINE SHEET C4.1
MATCHLINE SHEET C4.2

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MATCHLINE SHEET C4.1
MATCHLINE SHEET C4.2



(2) 2 HOLSTER ELECTRIC
CAR CHARGING STATIONS

(3) 2 HOLSTER ELECTRIC
CAR CHARGING STATIONS

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SPF INVESTMENT, LLC
PART OF GPN: H13-0380-4661
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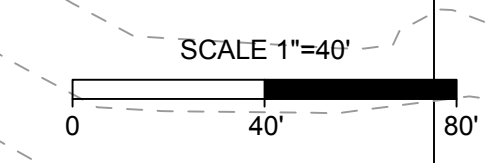
1,393,383 SF INDUSTRIAL BLDG
655 TOTAL AUTO STALLS
685 TRAILER STALLS
FFE = 132.00'

SNOW REMOVAL
EQUIPMENT STORAGE

RETAINING WALL

MATCHLINE SHEET C4.1
MATCHLINE SHEET C4.2

N/F
KAY J. BURNETT & JAMES E. BROWN JR.
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D.B. 613, PG. 2229



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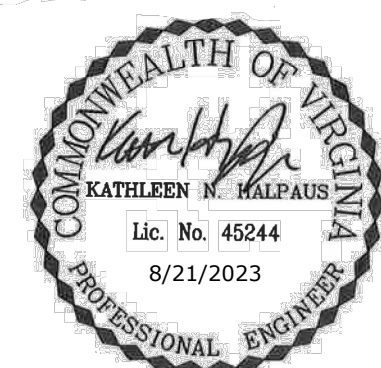
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DESIGNED BY
M. HETZLER
CHECKED BY
K. HALPAUS
SCALE
1" = 40'

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NEW KENT COUNTY - VIRGINIA
GRADING AND DRAINAGE PLAN

JOB NO.	58776
SHEET NO.	C4.2

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J. ALLESSIE

DESIGNED BY
M. HETZLER

CHECKED BY
K. HALPAUS

SCALE
1" = 40'

JOB NO.
58776

SHEET NO.
C4.3

DATE
8/21/2023

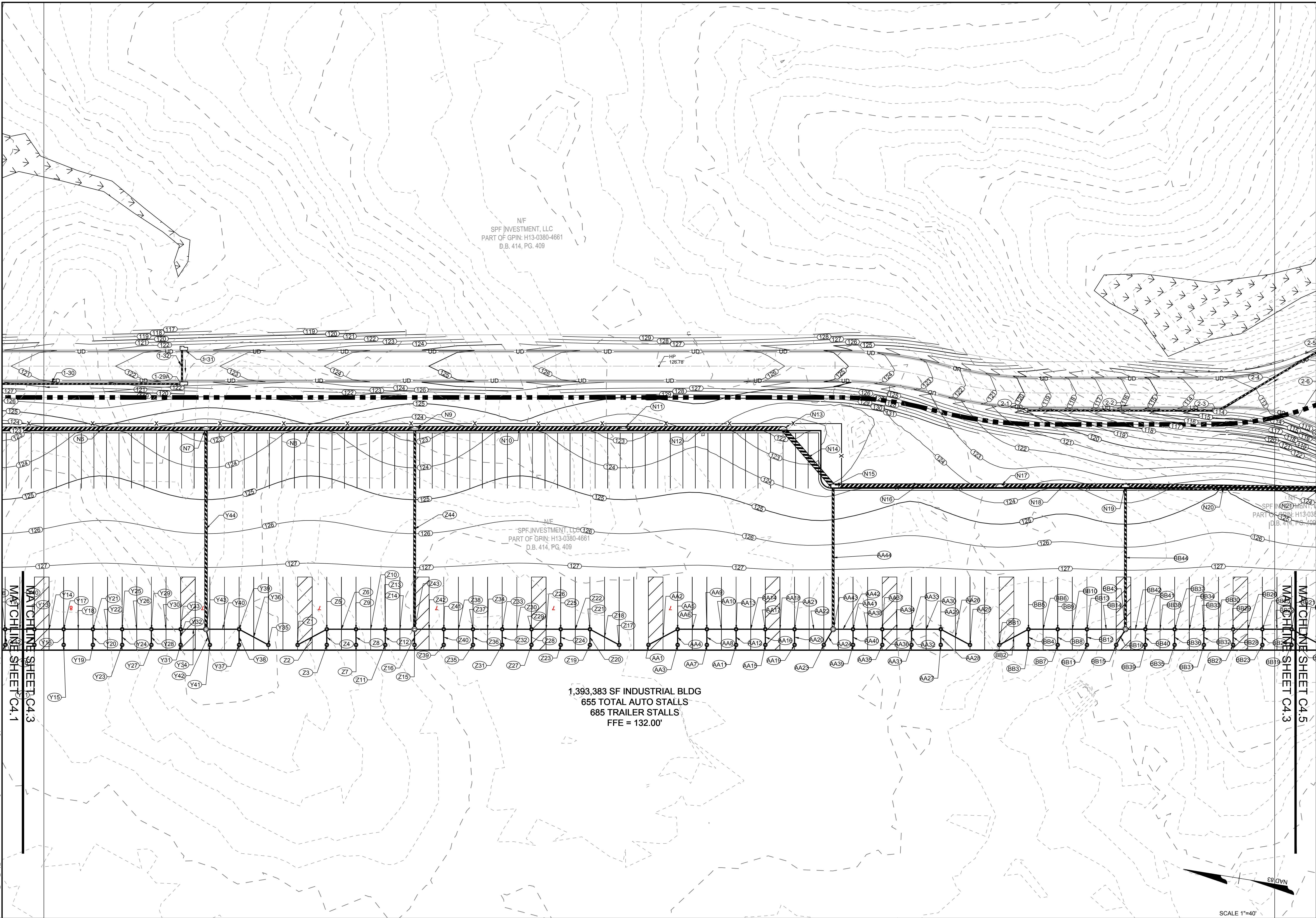
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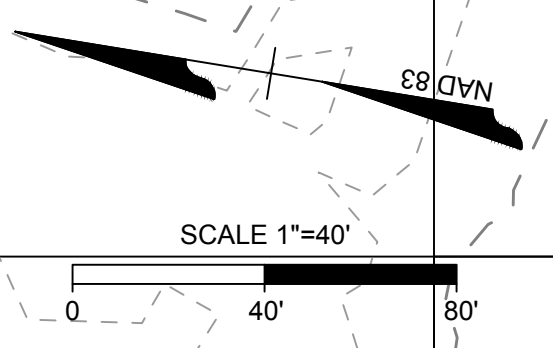
FORGE LOGISTICS BUILDING TWO NEW KENT COUNTY - VIRGINIA GRADING AND DRAINAGE PLAN



N/F
SPF INVESTMENT, LLC
PART OF GPIN: H13-0380-4661
D.B. 414, PG. 409

N/F
SPF INVESTMENT, LLC
PART OF GPIN: H13-0380-4661
D.B. 414, PG. 409

1,393,383 SF INDUSTRIAL BLDG
655 TOTAL AUTO STALLS
685 TRAILER STALLS
FFE = 132.00'



MATCHLINE SHEET C4.3
MATCHLINE SHEET C4.4

MATCHLINE SHEET C4.1

MATCHLINE SHEET C4.3

MATCHLINE SHEET C4.5

MATCHLINE SHEET C4.3

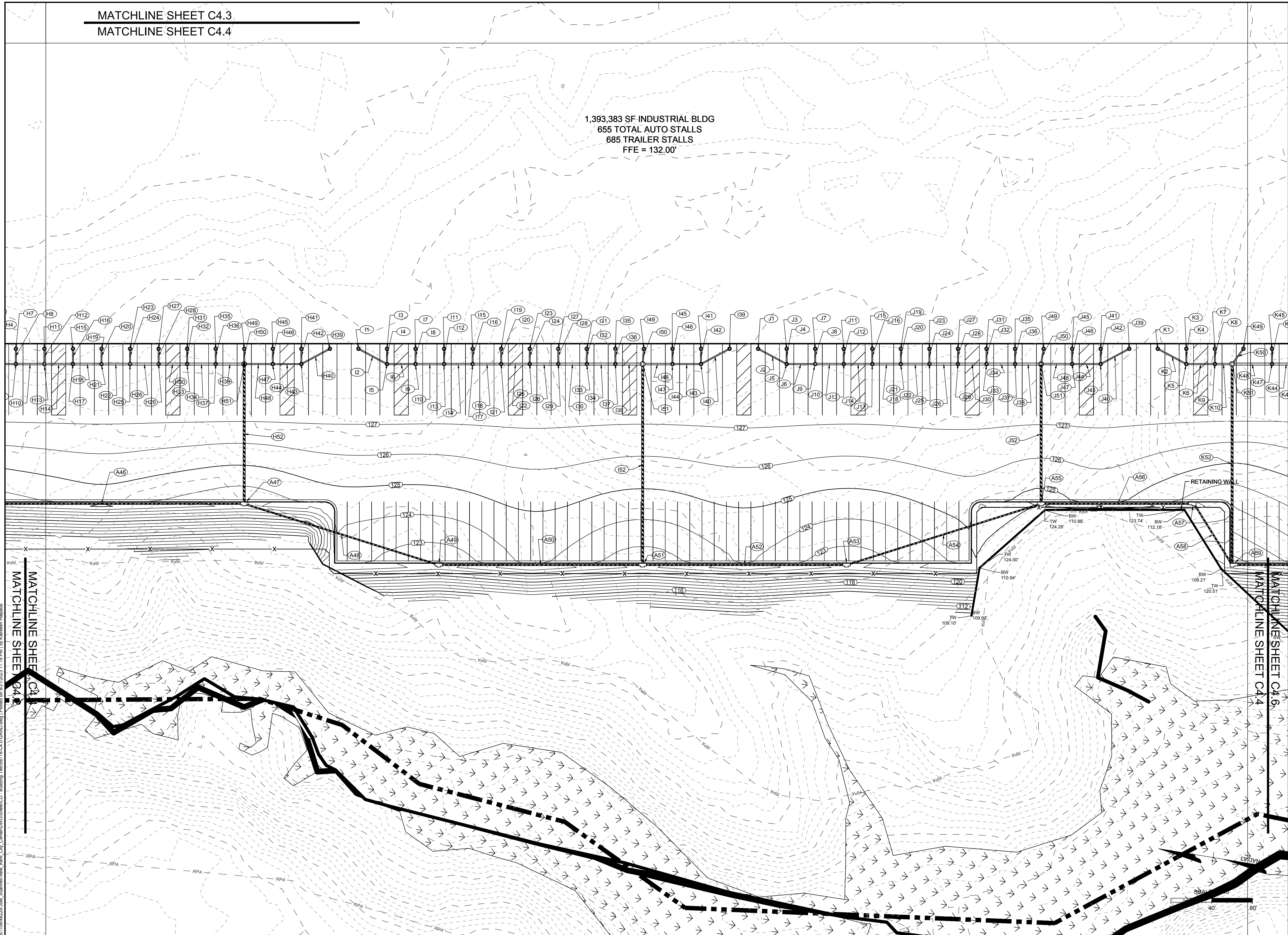
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MATCHLINE SHEET C4.3
MATCHLINE SHEET C4.4



1,393,383 SF INDUSTRIAL BLDG
655 TOTAL AUTO STALLS
685 TRAILER STALLS
FFE = 132.00'



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DESIGNED BY
M. HETZLER
CHECKED BY
K. HALPAUS
SCALE
1" = 40'

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NEW KENT COUNTY - VIRGINIA
GRADING AND DRAINAGE PLAN

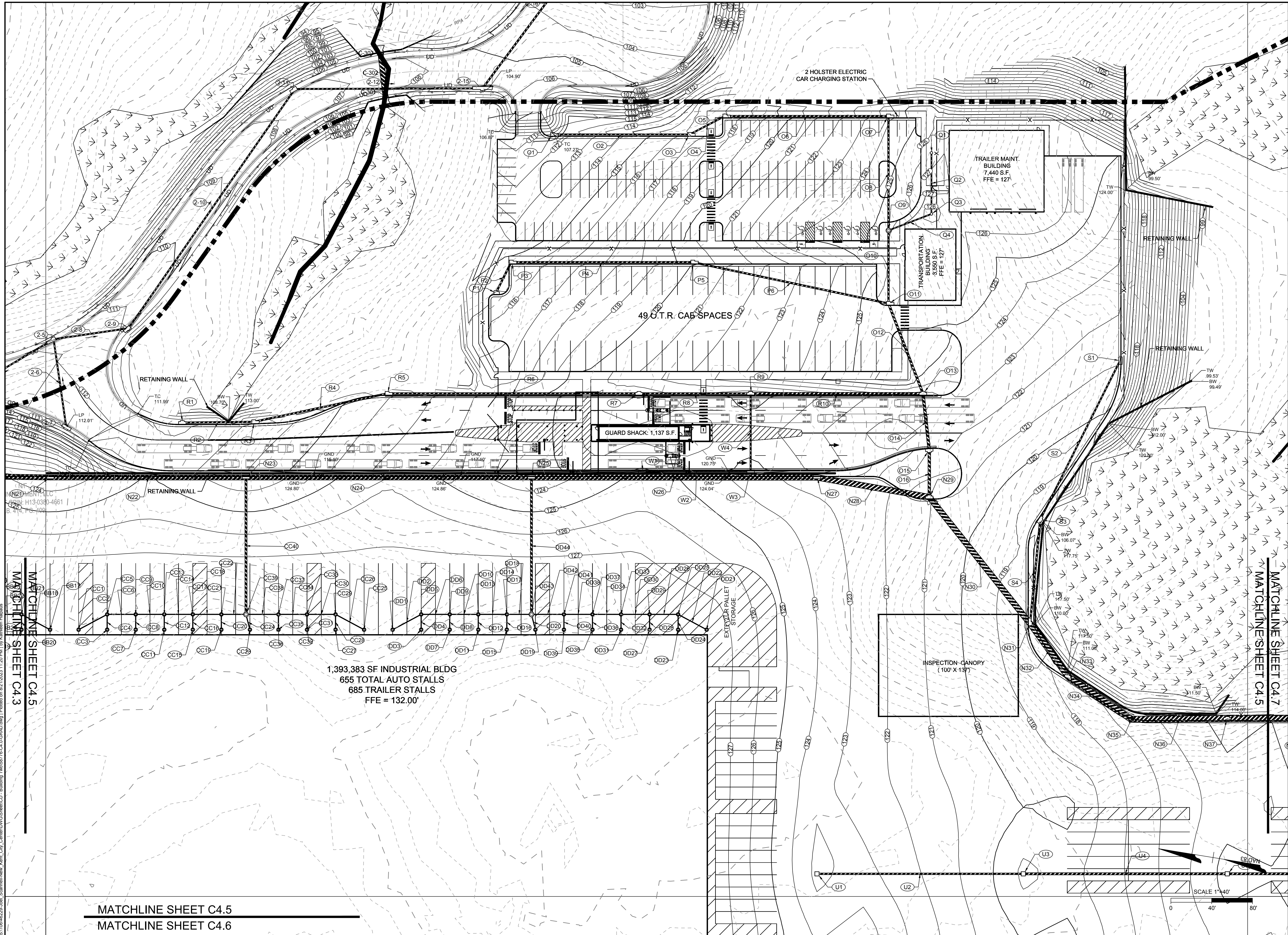
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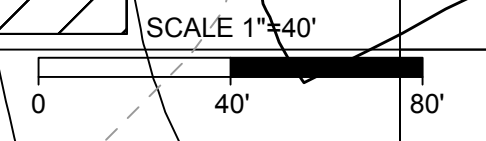
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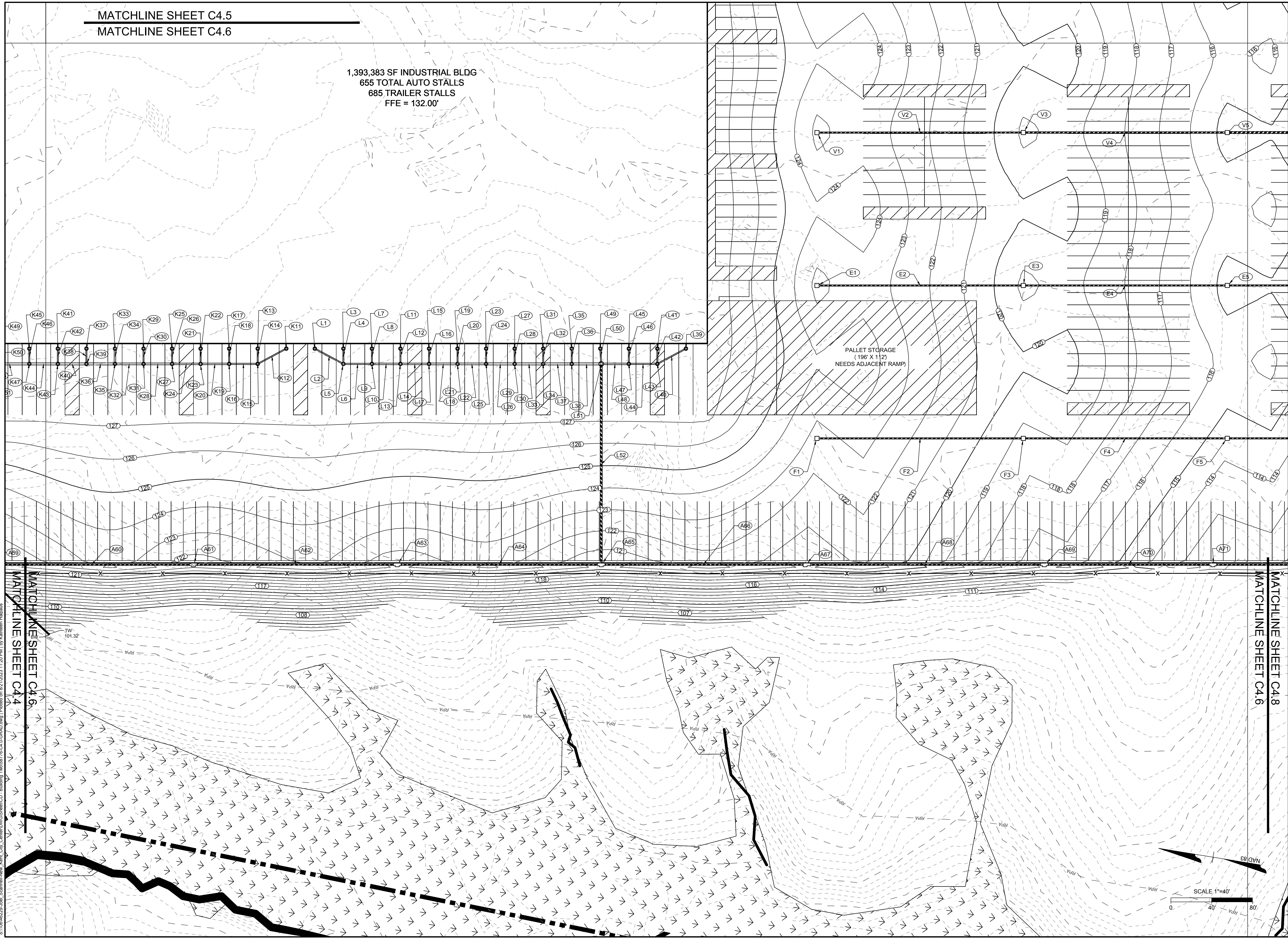
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 MATCHLINE SHEET C4.6



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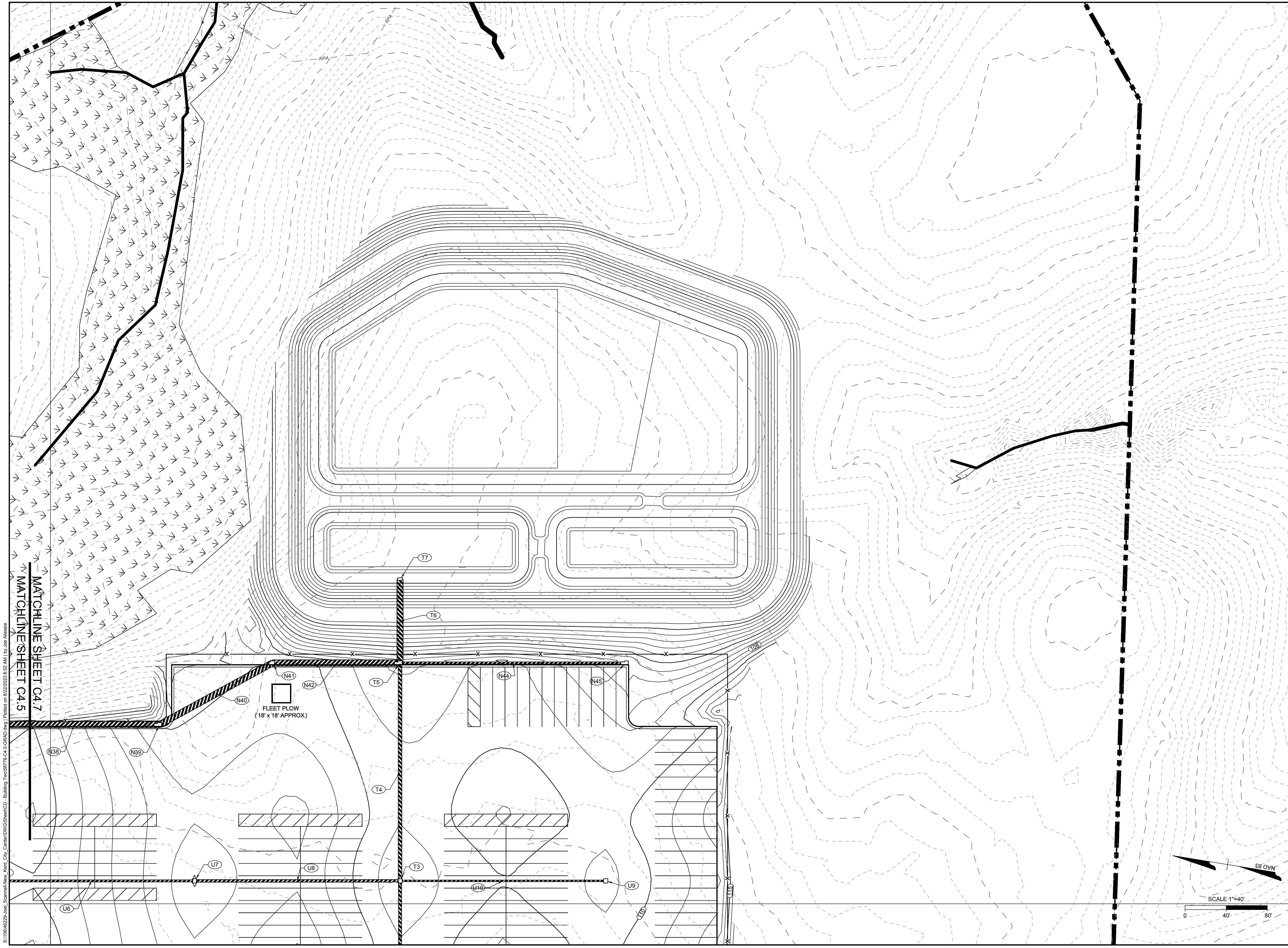
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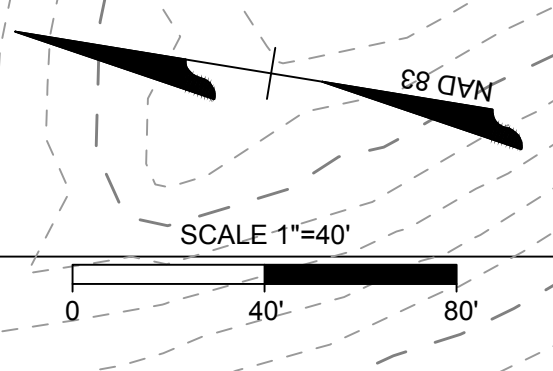
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N41
N42
N40
FLEET PLOW
(18' x 18' APPROX.)



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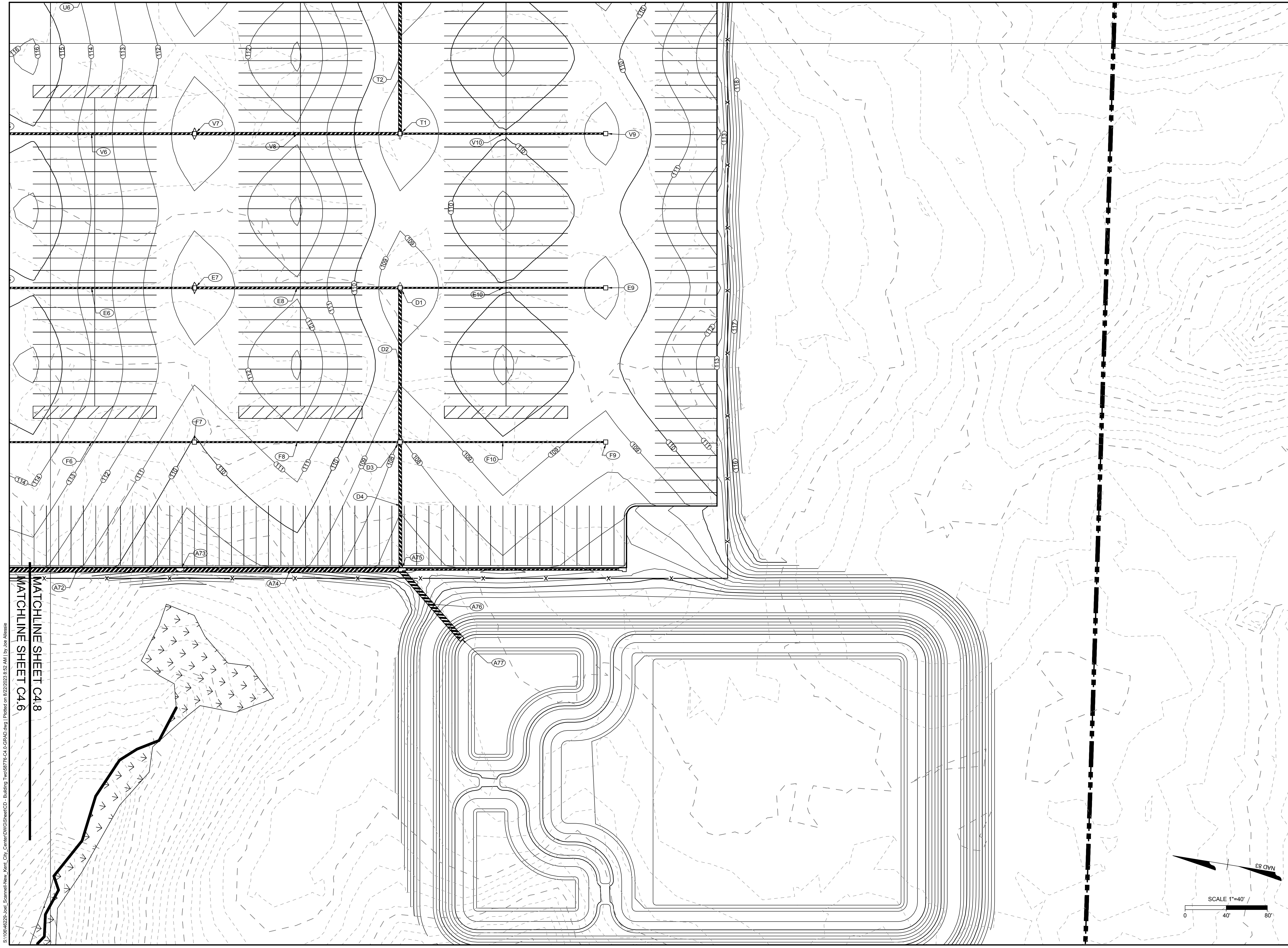
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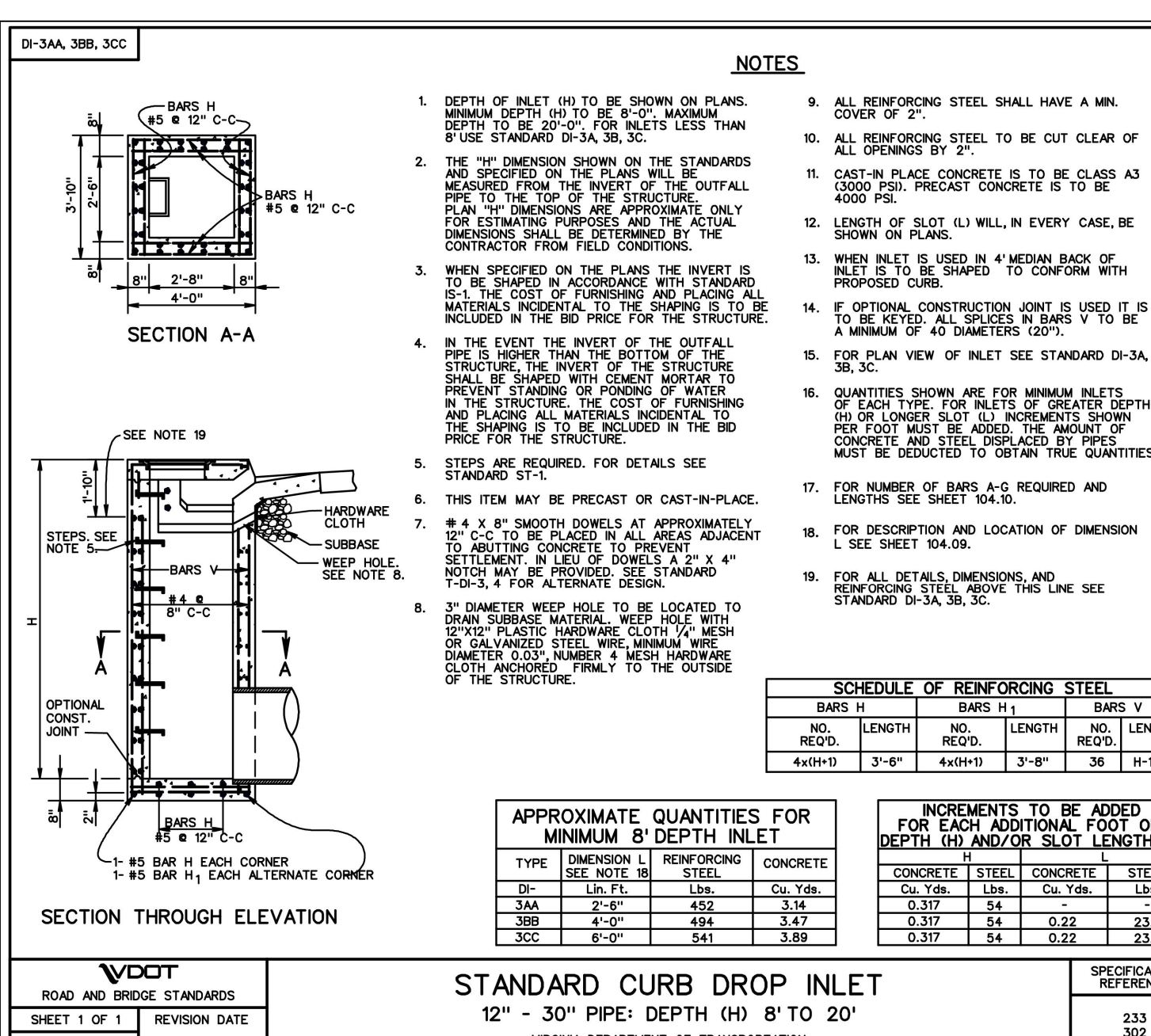
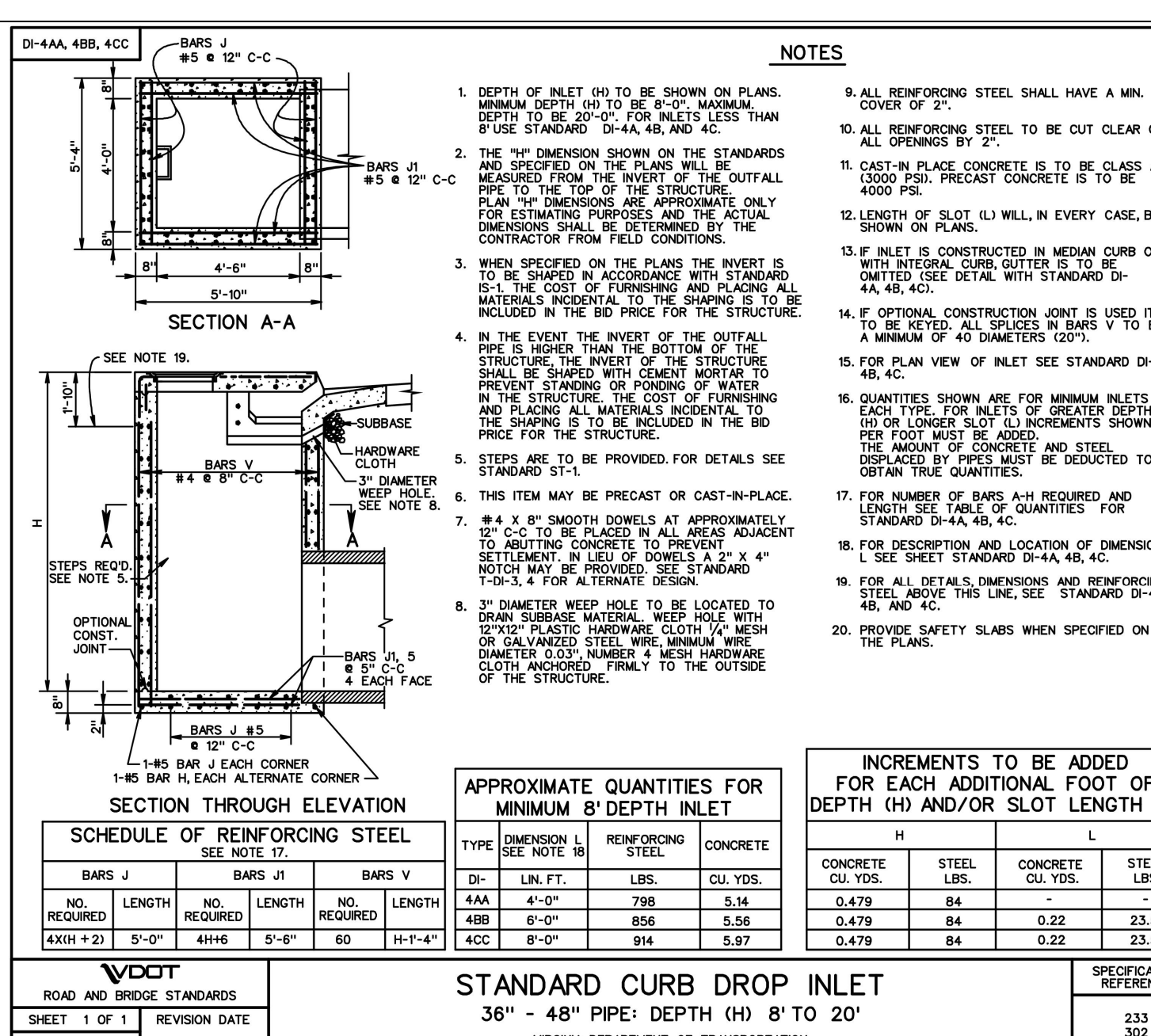
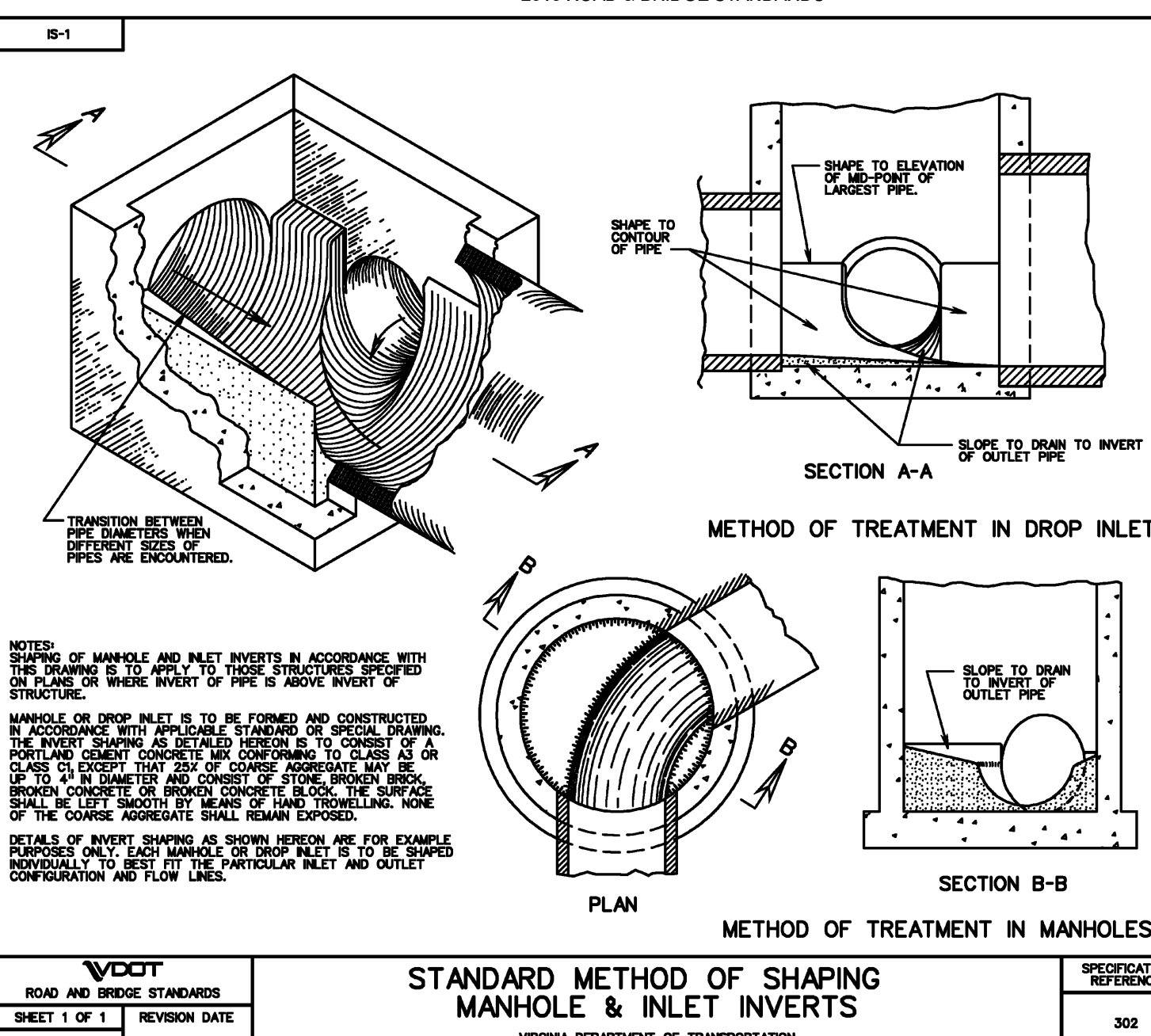
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CONSTRUCTION SEQUENCE OF WET POND:

- 1. STABILIZE THE DRAINAGE AREA. FINAL GRADING AND CONSTRUCTION OF ED POND COMPONENTS SHOULD ONLY BE CONSTRUCTED AFTER THE CONTRIBUTING DRAINAGE AREA TO THE POND IS STABILIZED.
2. ASSEMBLE CONSTRUCTION MATERIALS ON-SITE. MAKE SURE THEY MEET DESIGN SPECIFICATIONS, AND PREPARE AND STAGING AREAS.
3. CLEAR AND STRIP THE PROJECT AREA TO THE DESIRED SUB-GRADE.
4. INSTALL E&S CONTROLS PRIOR TO CONSTRUCTION, INCLUDING TEMPORARY DEWATERING DEVICES AND STORMWATER DIVERSION PRACTICES. ALL AREAS SURROUNDING THE POND THAT ARE GRADED OR DENuded DURING CONSTRUCTION MUST BE PLANTED WITH TURF GRASS, NATIVE PLANTINGS, OR OTHER APPROVED METHODS OF SOIL STABILIZATION.
5. EXCAVATE THE CORE TRENCH AND INSTALL THE SPILLWAY PIPE.
6. INSTALL THE RISER OR OUTFLOW STRUCTURE AND ENSURE THE TOP INVERT OF THE OVERFLOW WEIR IS CONSTRUCTED LEVEL AT THE DESIGN ELEVATION.
7. CONSTRUCT THE EMBANKMENT AND ANY INTERNAL BERMS IN 8 TO 12-INCH LIFTS, OR AS DIRECTED BY GEOTECHNICAL RECOMMENDATIONS, AND COMPACT AS REQUIRED WITH APPROPRIATE EQUIPMENT.
8. EXCAVATE/GRADE UNTIL THE APPROPRIATE ELEVATION AND DESIRED CONTOURS ARE ACHIEVED FOR THE BOTTOM AND SIDE SLOPES OF THE ED POND.
9. CONSTRUCT THE EMERGENCY SPILLWAY IN CUT OR STRUCTURALLY STABILIZED SOILS.
10. INSTALL OUTLET PIPES, INCLUDING EMERGENCY AND PRIMARY OUTLET APRON PROTECTION.
11. STABILIZE EXPOSED SOILS WITH TEMPORARY SEED MIXTURES APPROPRIATE FOR THE POND BUFFER. ALL AREAS ABOVE THE NORMAL POOL ELEVATION SHOULD BE PERMANENTLY STABILIZED BY HYDRO SEEDING OR SEEDING OVER STRAW.
12. PLANT THE POND BUFFER AREA, FOLLOWING THE PONDSCAPING PLAN (SEE SECTION 6.7 OF THE VIRGINIA DCR STORMWATER DESIGN SPECIFICATION NO. 14 WET POND. (VERSION 2.0, JANUARY 1, 2013))

SWM/BMP NOTES:

- 1. ALL BARREL AND RISER ASSEMBLIES MUST BE "O-RING" CONCRETE PIPE, NO SMALLER THAN 15" IN DIAMETER.
2. THE SWM/BMP FACILITY SHALL BE OBSERVED BY A PROFESSIONAL ENGINEER DURING CONSTRUCTION "AS BUILT" INFORMATION WILL BE REQUIRED FOR FUTURE CERTIFICATION OF THE FACILITY.
3. THE CONTRACTOR SHALL FOLLOW THE CONSTRUCTION SEQUENCE AS PROVIDED IN SECTION 8 OF THE VIRGINIA DCR STORMWATER DESIGN SPECIFICATION NO. 14 WET PONDS (VERSION 2.0, JANUARY 1, 2013). A SUMMARY IS PROVIDED ON THIS SHEET.

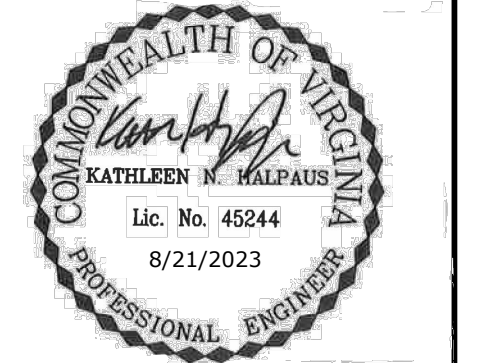
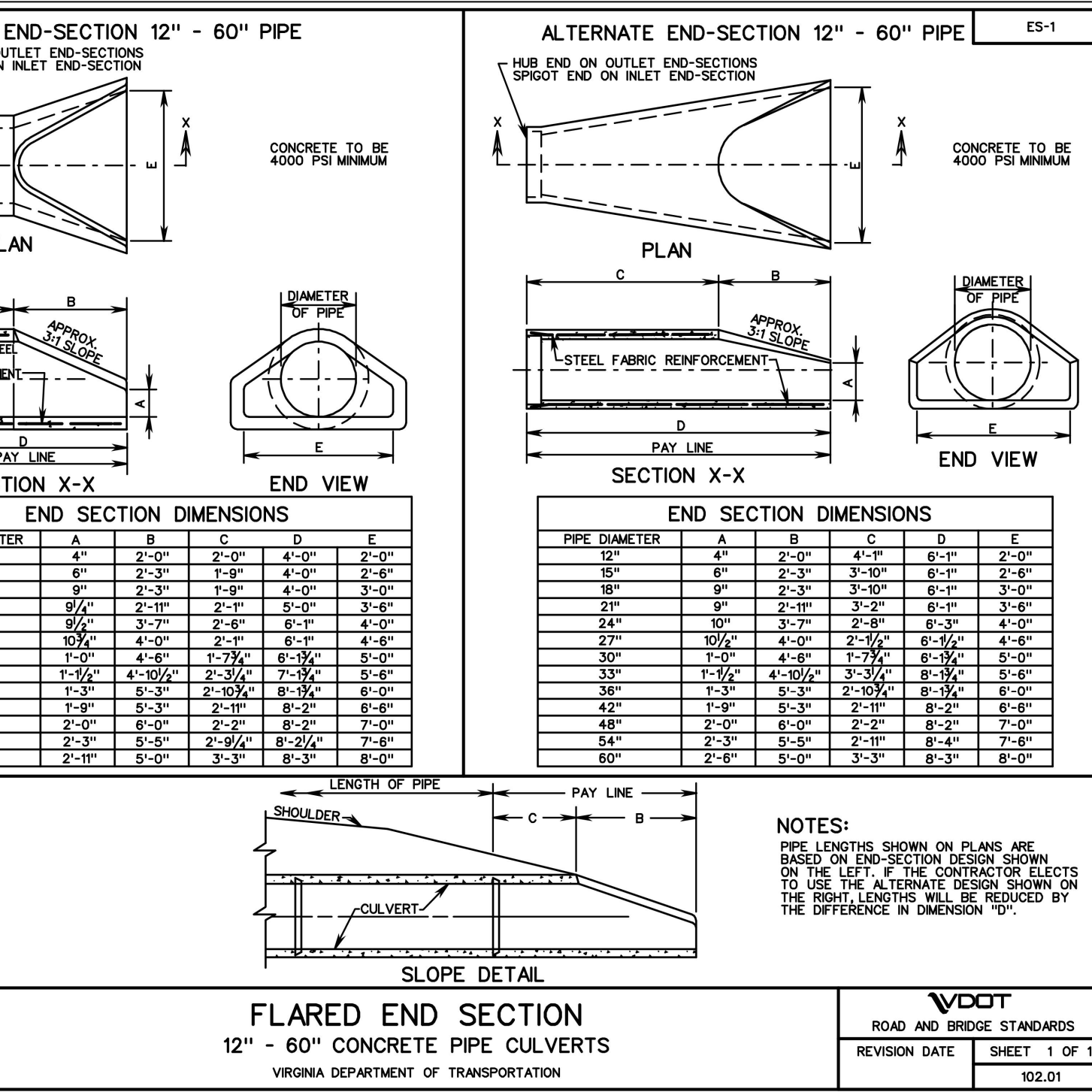
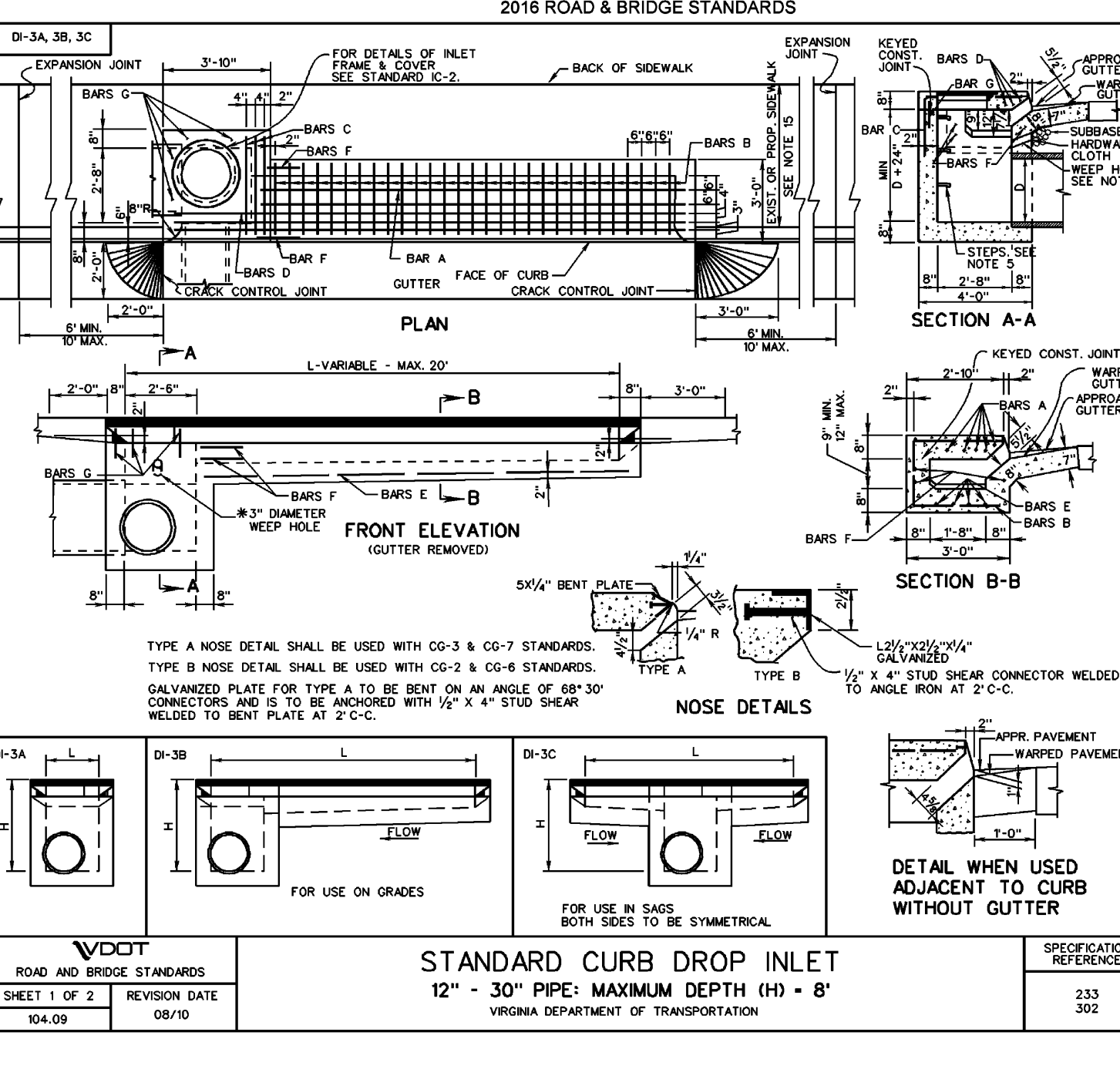
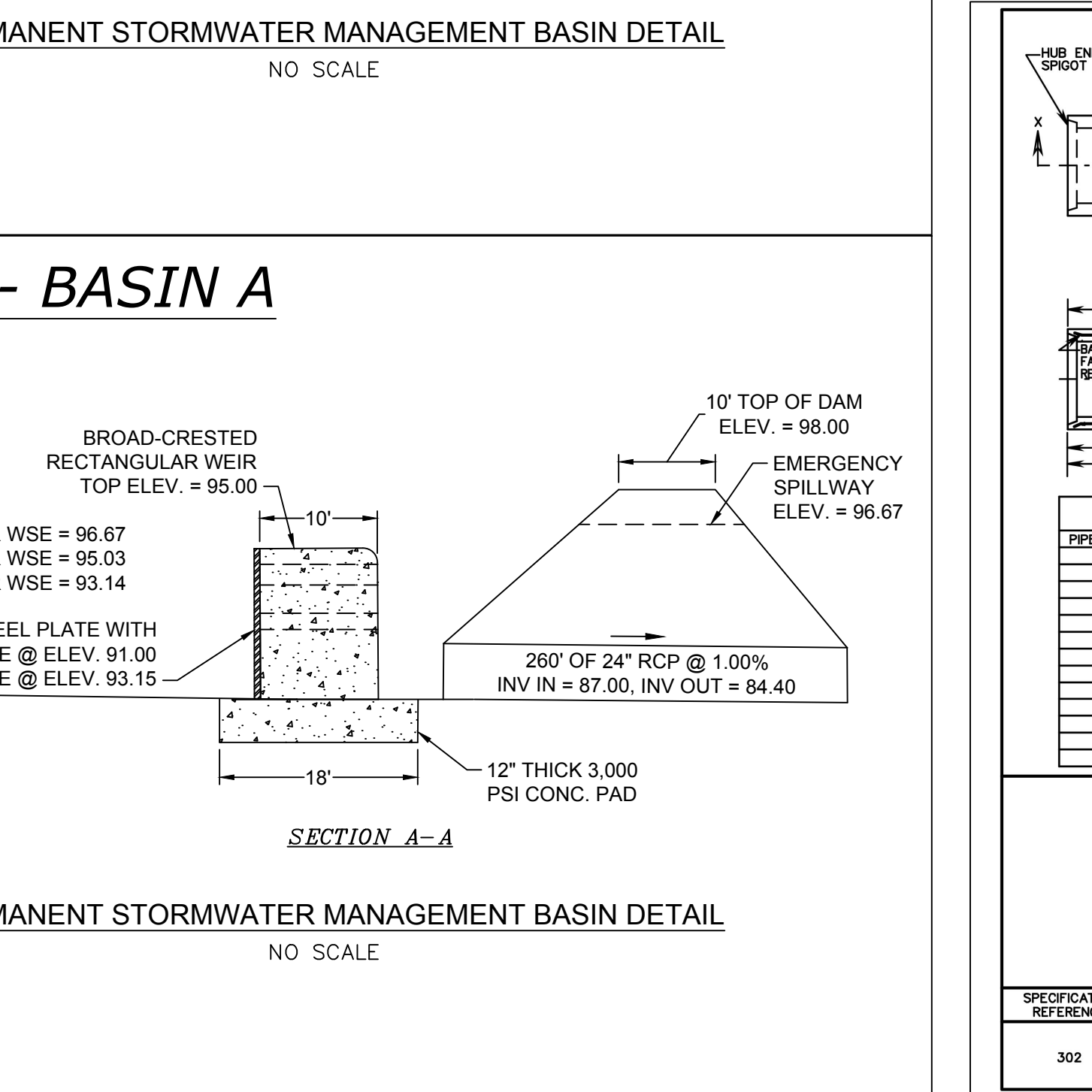
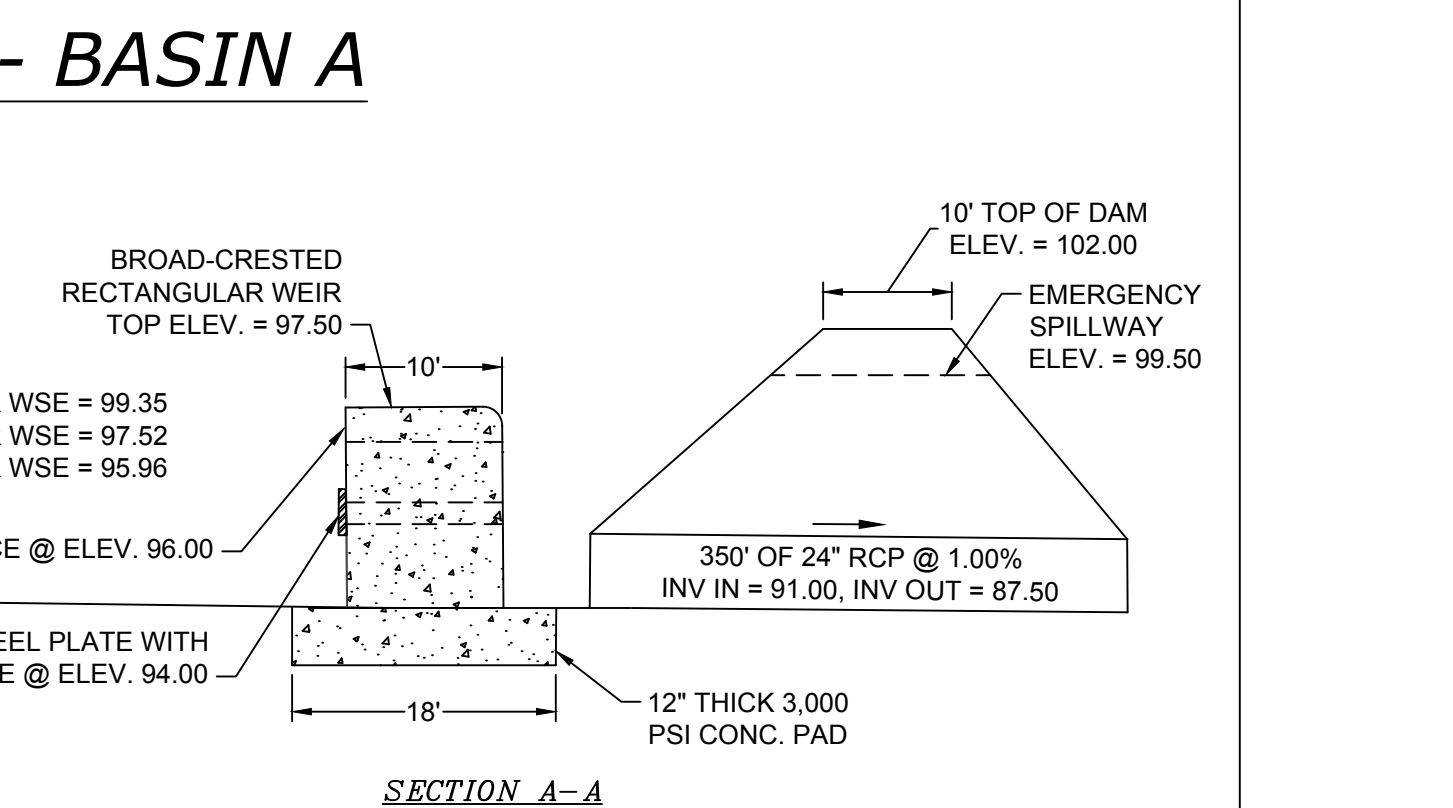
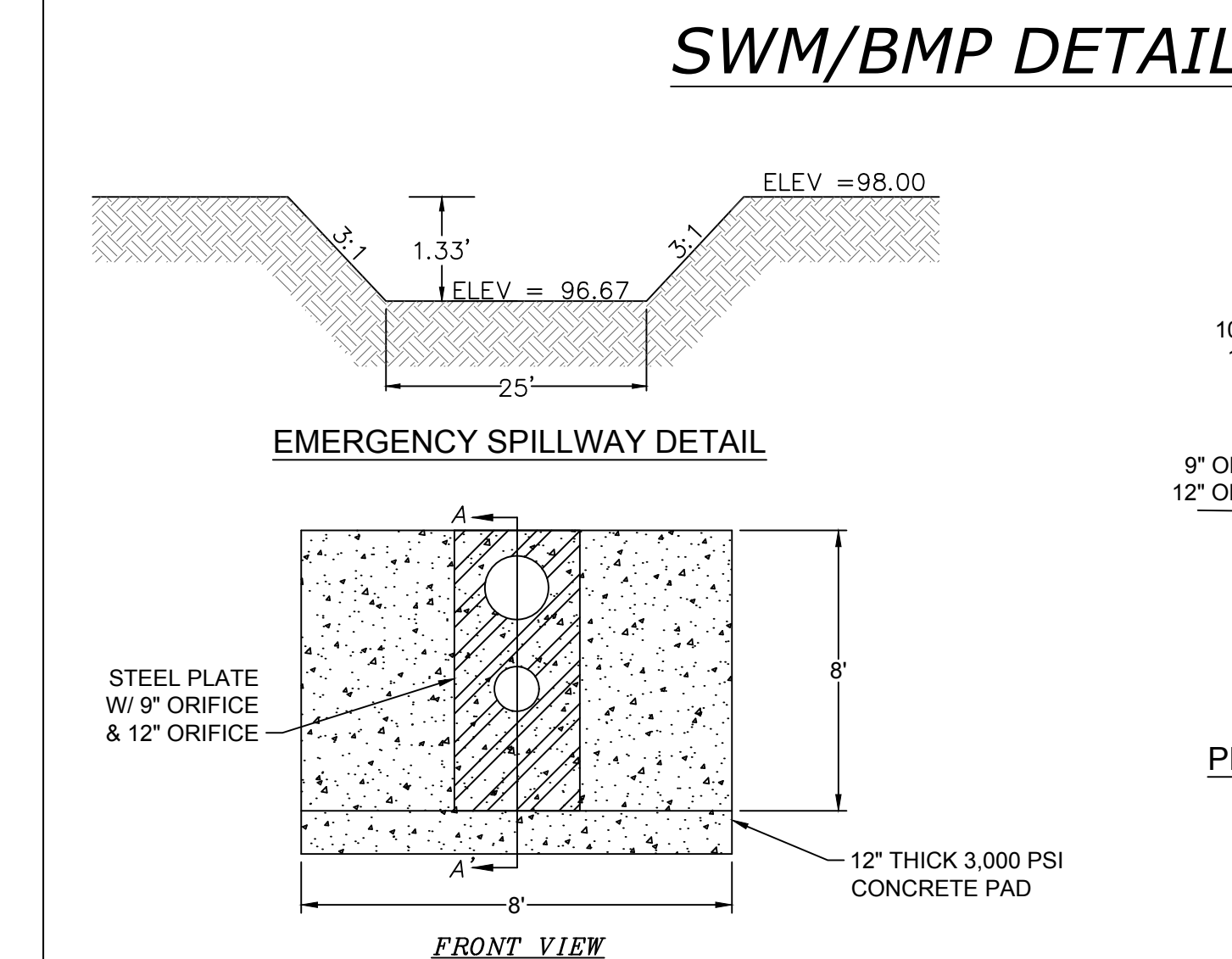
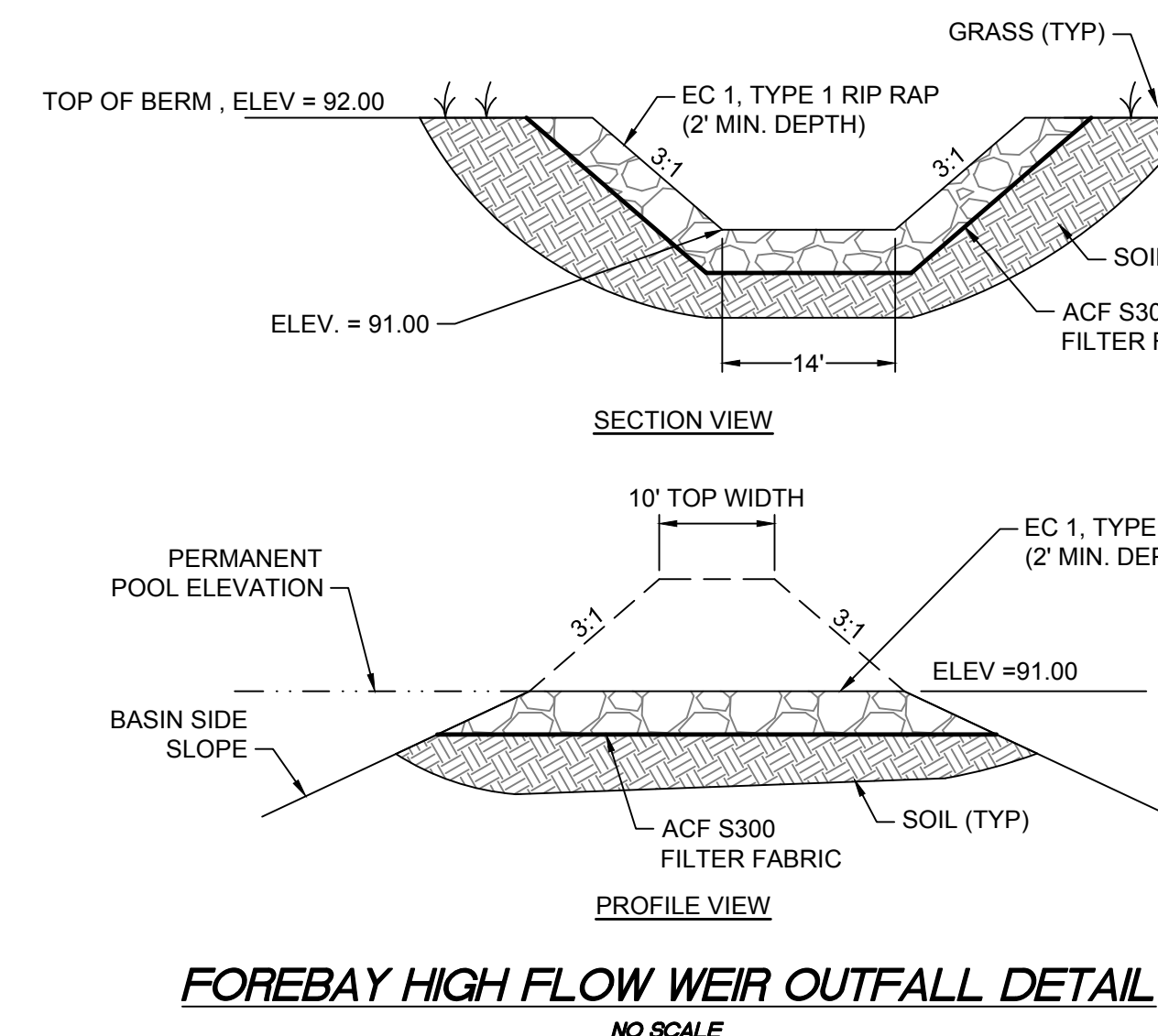
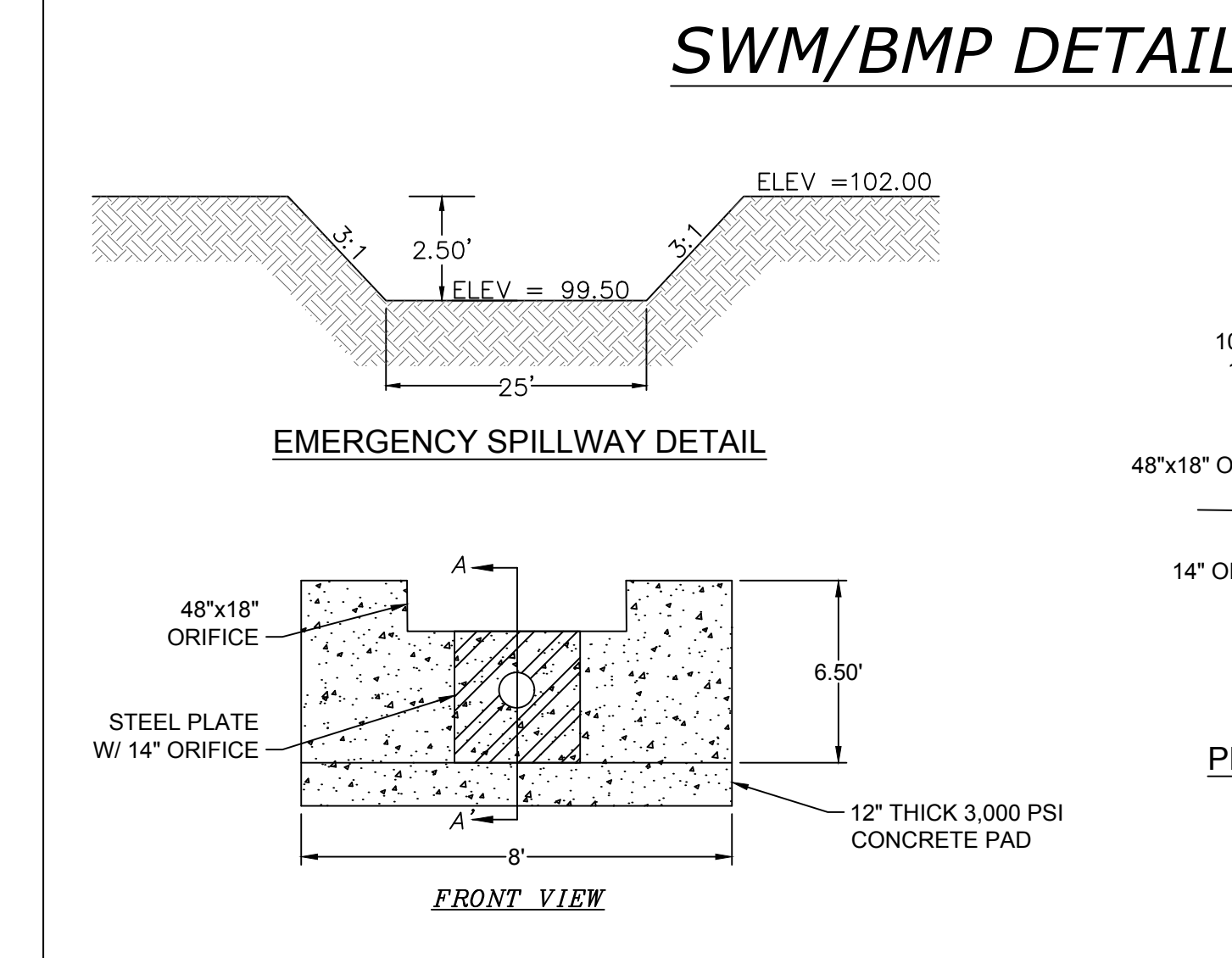
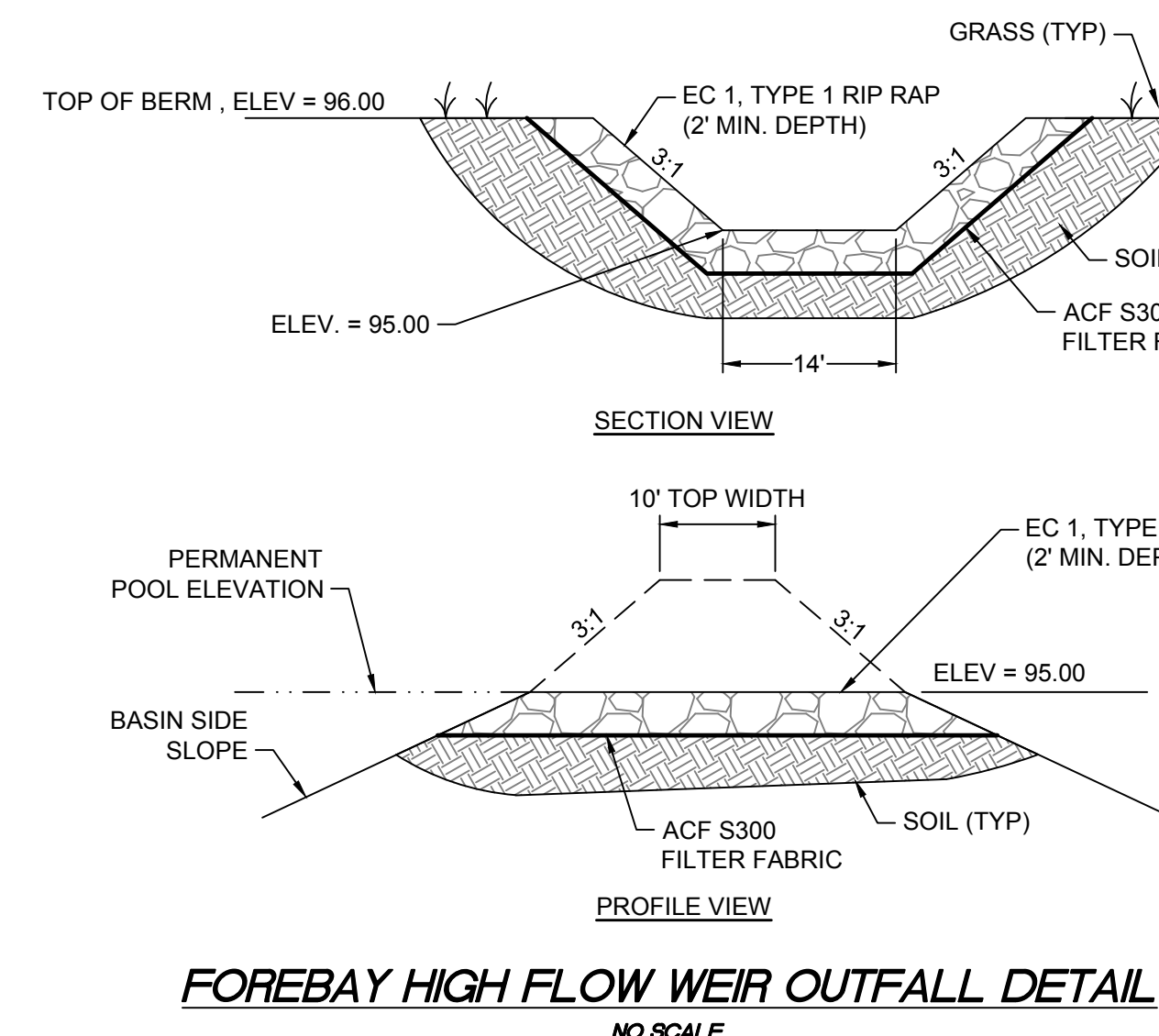


GENERAL GEOTECHNICAL CONSTRUCTION NOTES FOR BASINS

- 1. A QUALIFIED GEOTECHNICAL ENGINEER SHALL BE ON-SITE DURING ALL FILLING OPERATIONS. PLACEMENT AND COMPACTION OF THE GENERAL DAM FILL SHALL BE MONITORED AND TESTED BY THE GEOTECHNICAL ENGINEER. ALL SUBGRADES TO RECEIVE FILL SHALL BE EXAMINED BY THE GEOTECHNICAL ENGINEER.
2. MATERIALS USED FOR FILL SHALL BE CLASSIFIED AS SC MATERIAL, FREE FROM ROCKS, ROOT MASS OR CLODS. FILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8" AND EACH LIFT SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR.
3. THE DESIGN HEIGHT OF THE EMBANKMENT SHALL BE INCREASED BY THE AMOUNT NEEDED TO ENSURE THAT THE DESIGN TOP OF FILL ELEVATION WILL BE MAINTAINED AFTER SETTLEMENT HAS TAKEN PLACE.
4. MINIMUM COMPACTION REQUIREMENTS MUST BE MET AT CRITICAL POINTS (AGAINST THE CONCRETE WEIR AND WING WALLS). THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL BE MAINTAINED IN THE RANGE OF +/- TWO TO THREE PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT.
5. CONTRACTOR SHALL PLACE EXCAVATED MATERIAL THAT IS UNSUITABLE FOR USE AS FILL AT DESIGNATED AREAS. THE LOCATION SHALL BE APPROVED BY THE OWNER PRIOR TO PLACEMENT OF MATERIAL. CONTRACTOR SHALL GRADE AND SEED EXCESS MATERIAL PER STATE EROSION AND SEDIMENT CONTROL GUIDELINES.
6. CONSTRUCT 2' WIDE KEY TRENCH A MINIMUM OF 4' BELOW THE EXISTING STRIPPED SUBGRADES. THE KEY TRENCH MAY BE EXTENDED DEEPER IF THE UNDERLYING SOILS ARE NOT CONSIDERED SUITABLE FOR SUPPORT OF FILL AT THE TIME OF CONSTRUCTION.
7. PLACE THREE INCHES OF TOPSOIL ON DAM SLOPES AFTER GRADING COMPLETION. TOPSOIL SHALL BE TRACKED (PERPENDICULAR TO THE AXIS OF THE DAM) WITH TRACKING EQUIPMENT. PERMANENTLY SEE THE DAM SLOPE PER STATE EROSION AND SEDIMENT CONTROL MEASURES.

STORMWATER BASIN MAINTENANCE AND INSPECTION

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING INSPECTIONS AND MAINTENANCE UNTIL THE PROJECT IS SUBSTANTIALLY COMPLETED AND "TURNED OVER" TO THE OWNER, AT WHICH TIME THE OWNER SHALL BECOME RESPONSIBLE FOR PERFORMING INSPECTIONS AND MAINTENANCE.
2. THE SLOPES AND EMBANKMENTS SHALL BE MOWED AT LEAST TWICE A YEAR.
3. MEASURE THE DEPTH OF THE SEDIMENT IN THE FOREBAYS. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE-HALF THE FOREBAY DEPTH (OR ONCE EVERY 5 YEARS AT A MINIMUM).
4. DEBRIS AND LITTER SHALL BE REMOVED AT LEAST TWICE A YEAR.
5. INSPECT DAM EMBANKMENT ON A YEARLY BASIS AND ADDRESS ANY SETTLING, WOODY GROWTH, PIPING, EROSION, OR SEEPAGE.
6. INSPECT RISER STRUCTURE, TRASH RACKS AND OUTLET ON A YEARLY BASIS TO ENSURE SYSTEM MEETS ORIGINAL DESIGN AND IS IN GOOD WORKING CONDITION.



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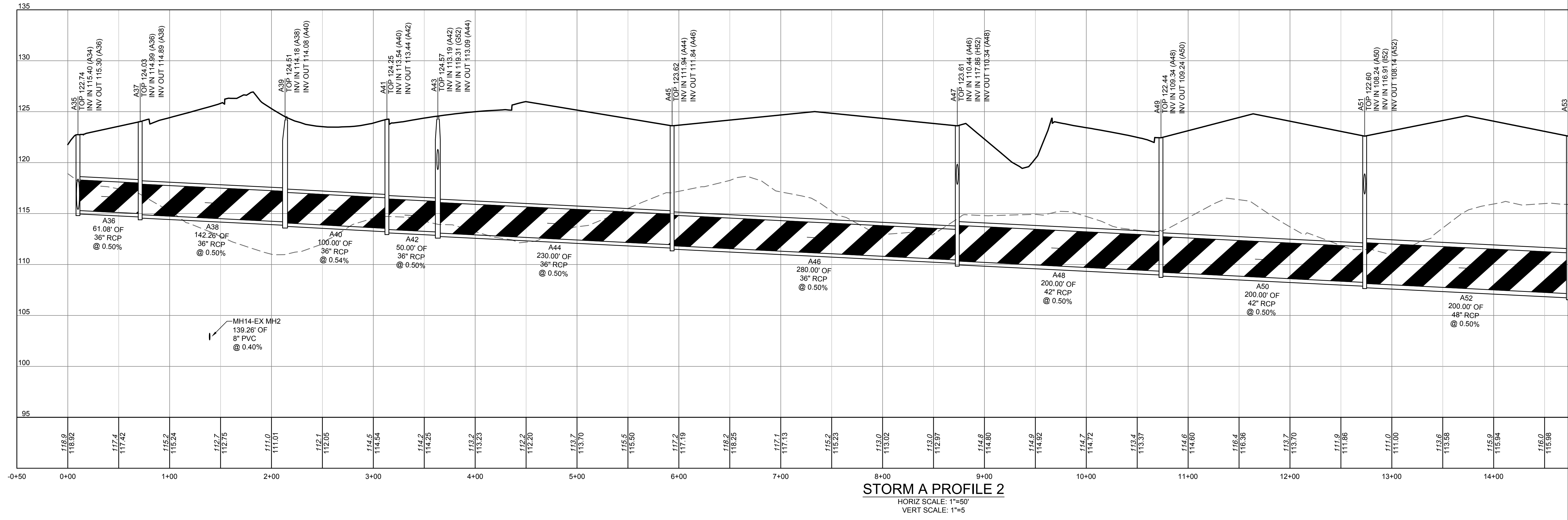
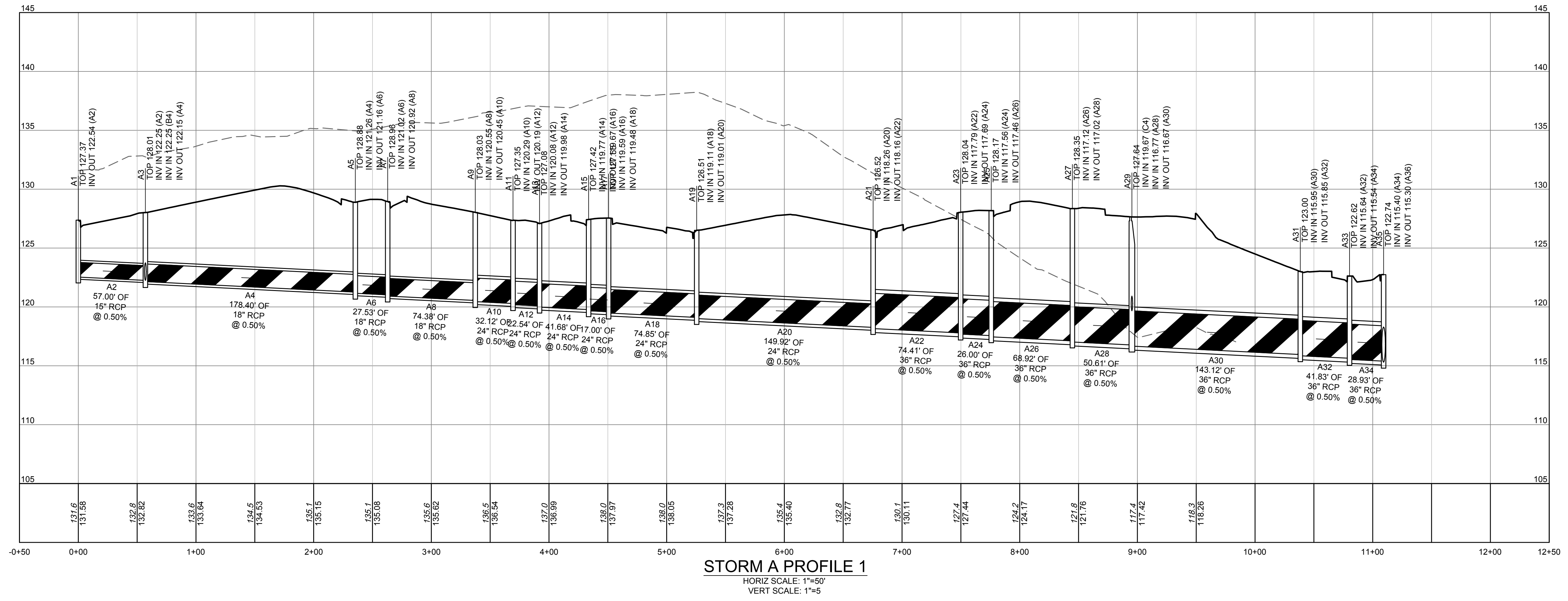
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STORM SEWER PROFILES

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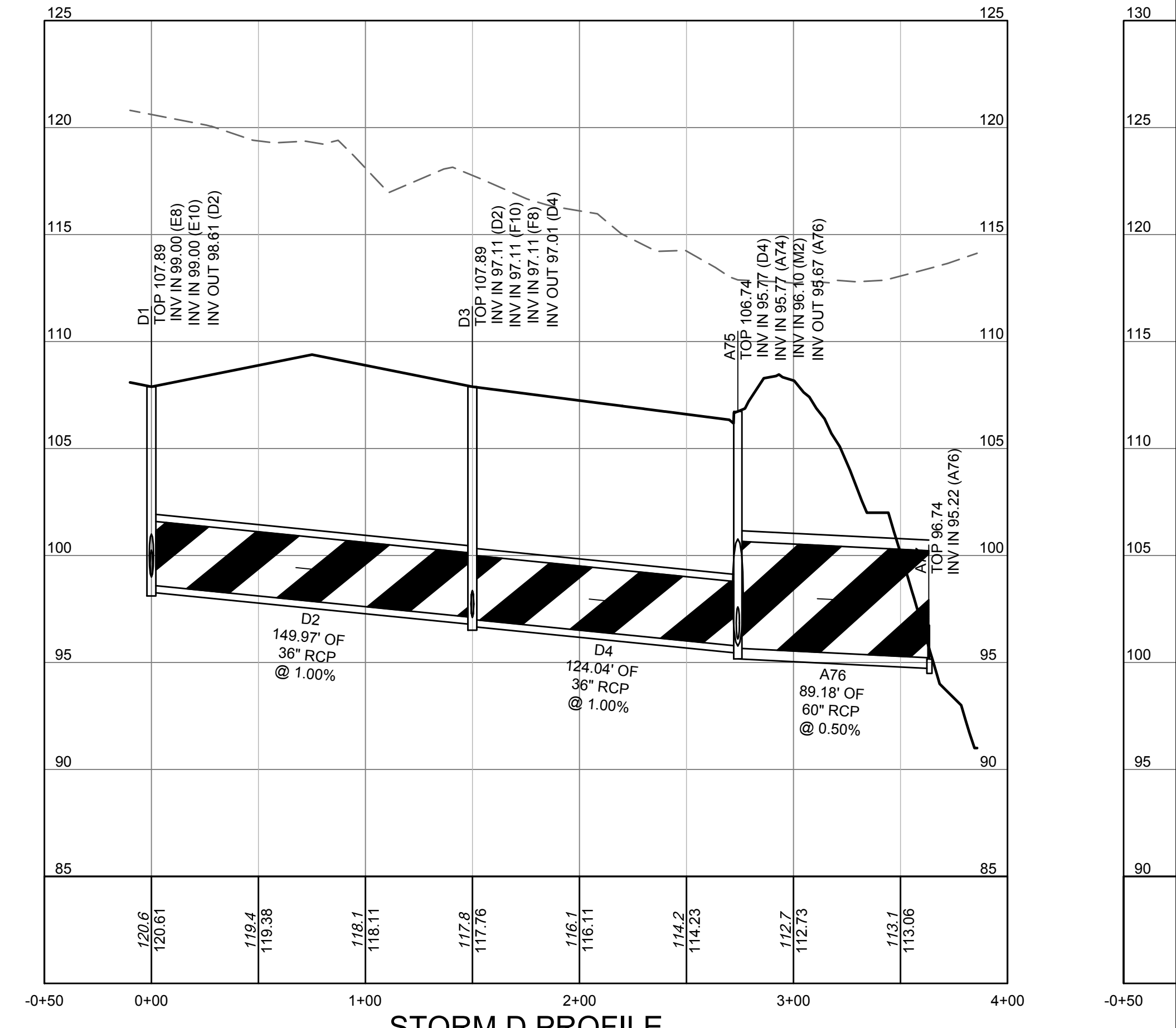
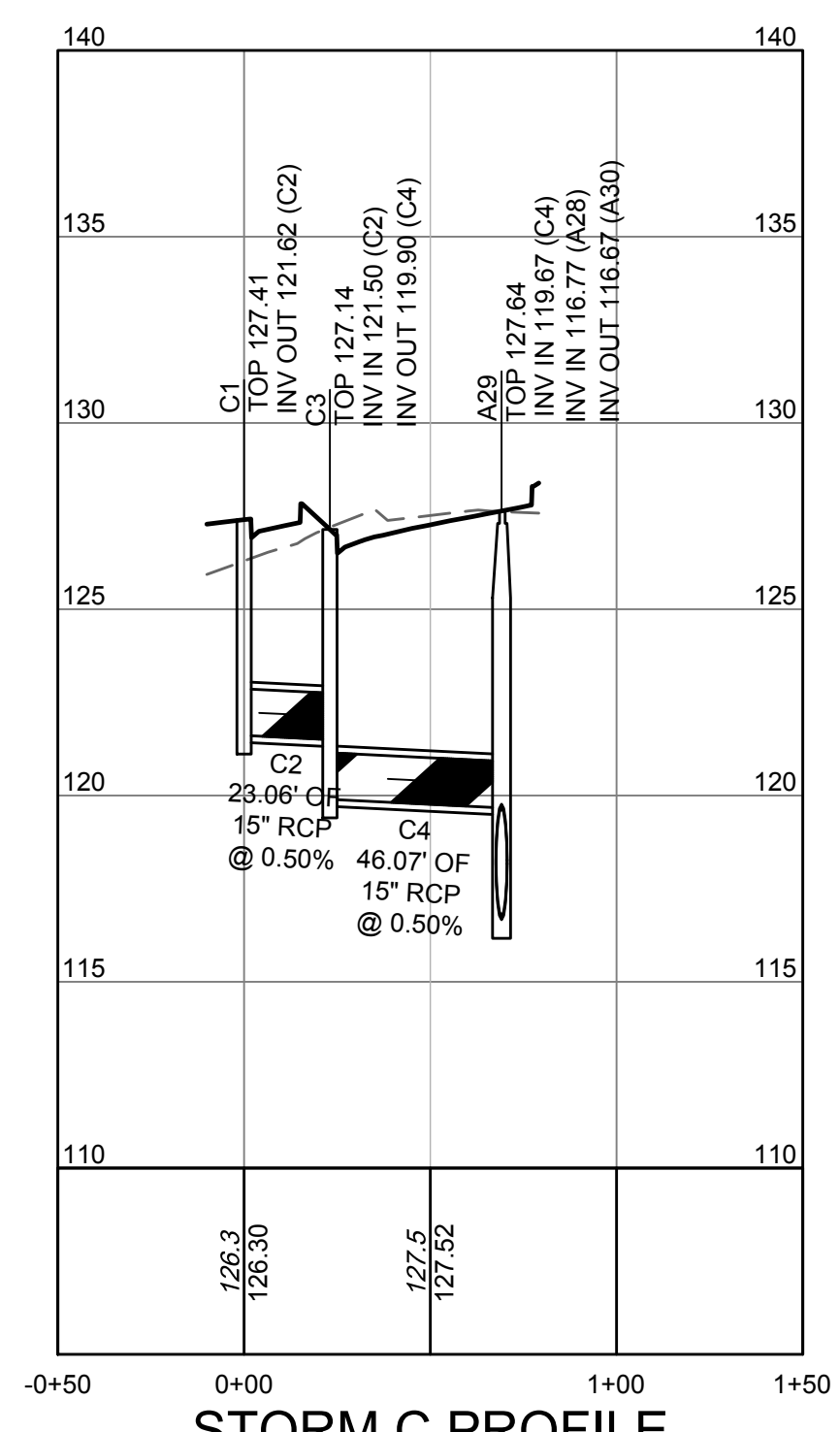
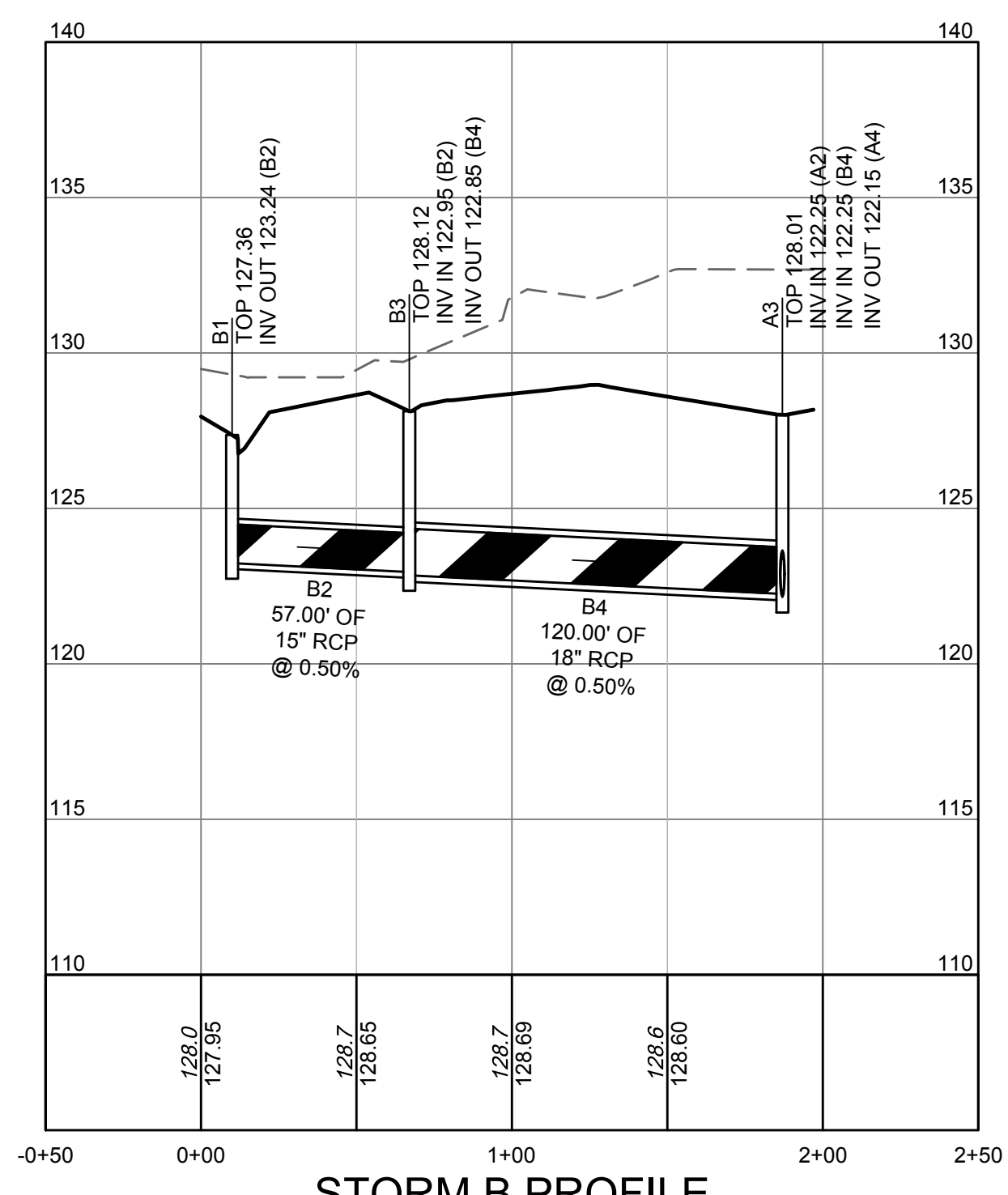
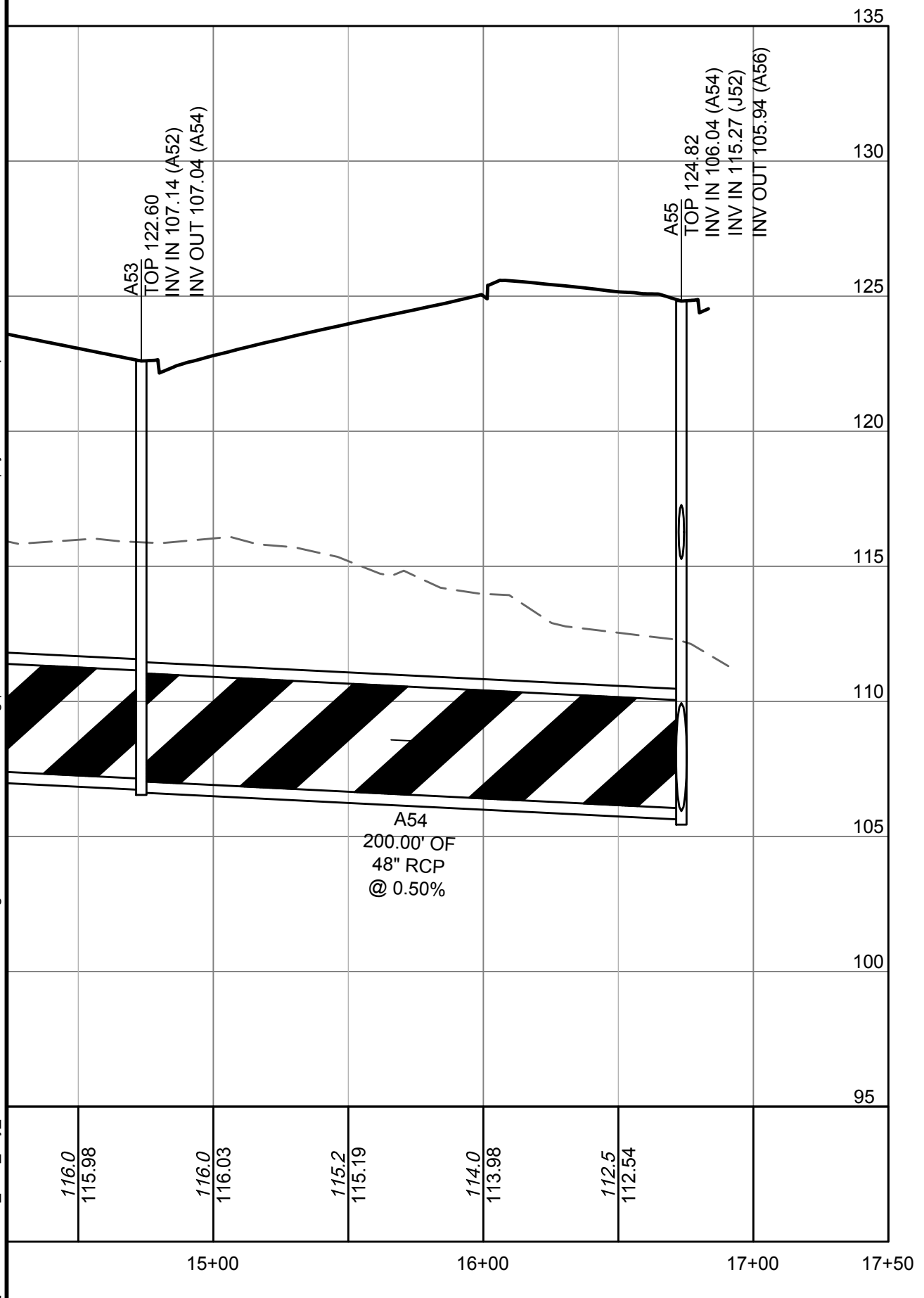
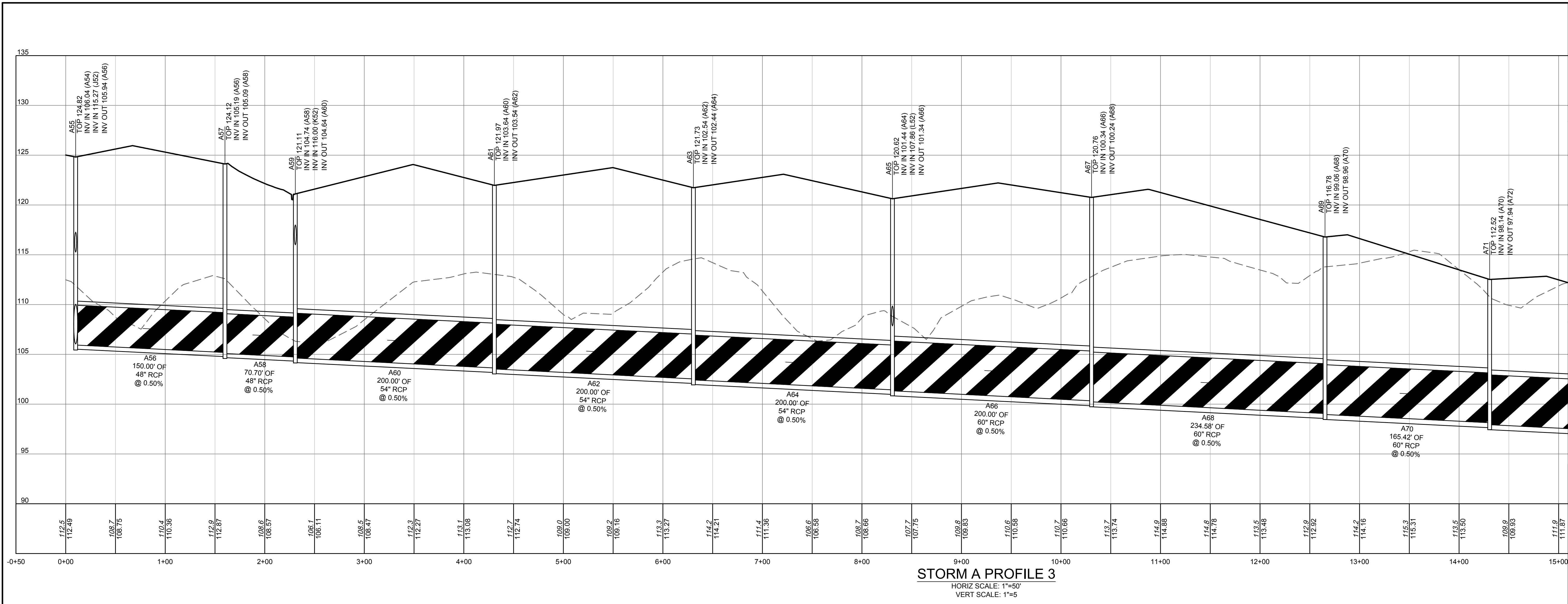
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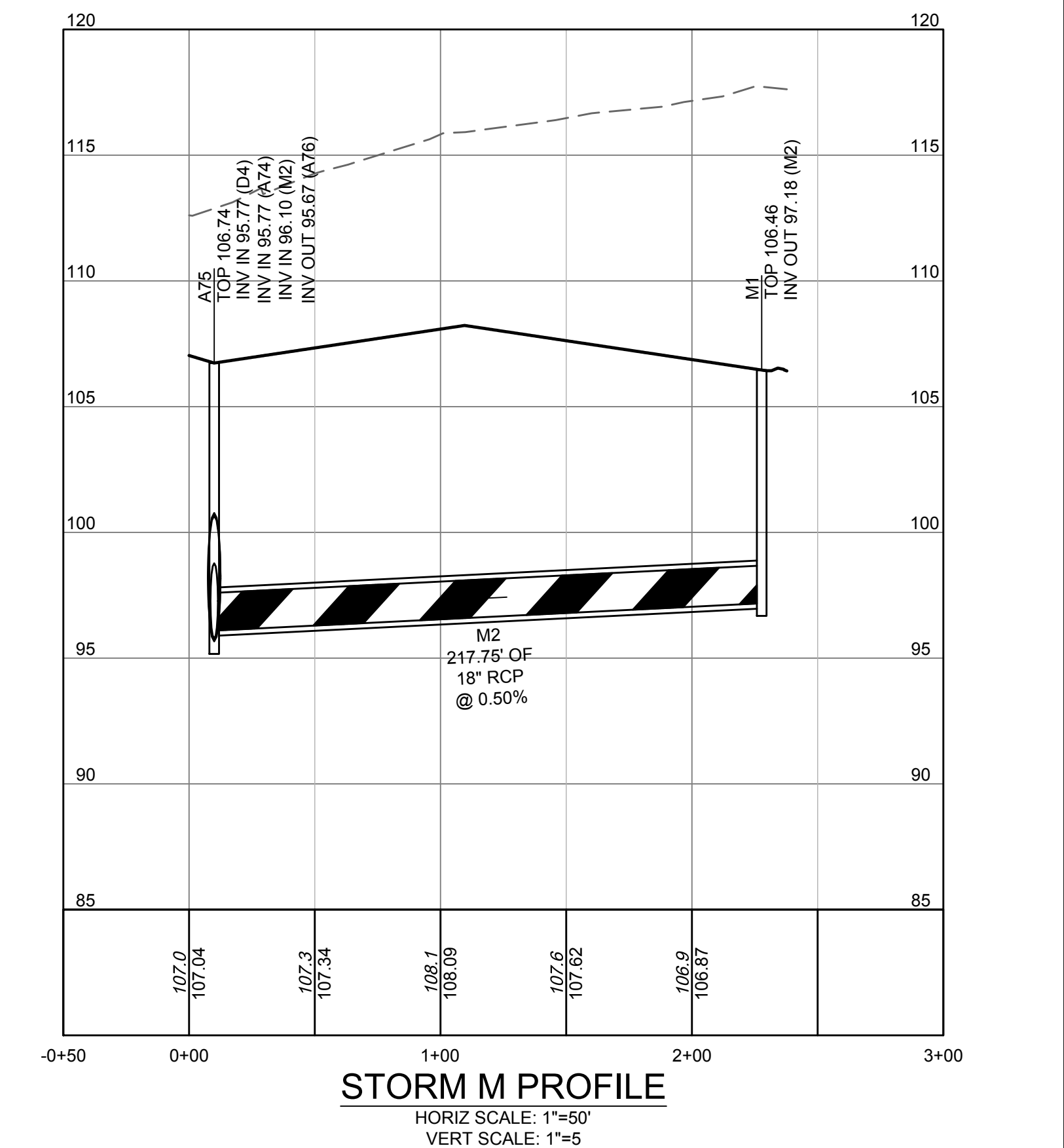
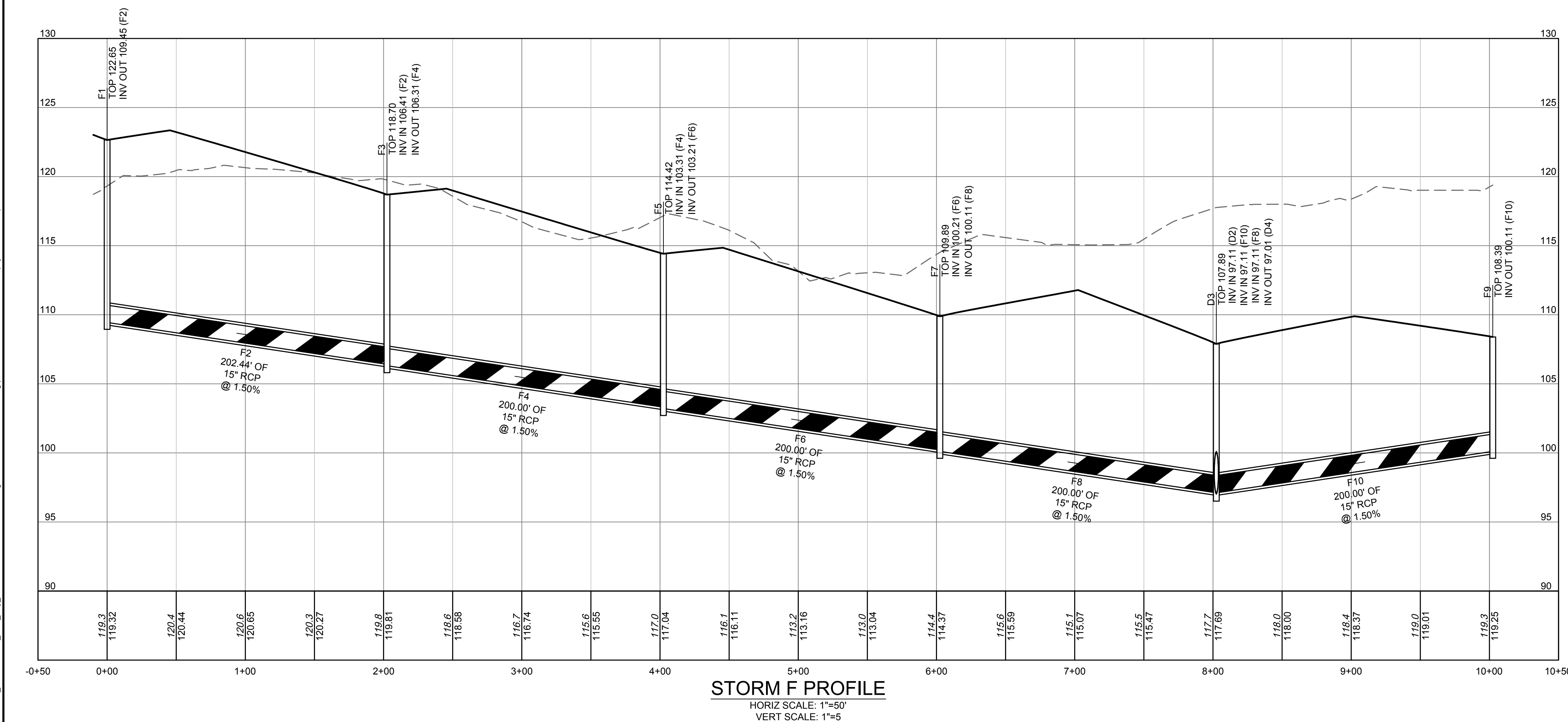
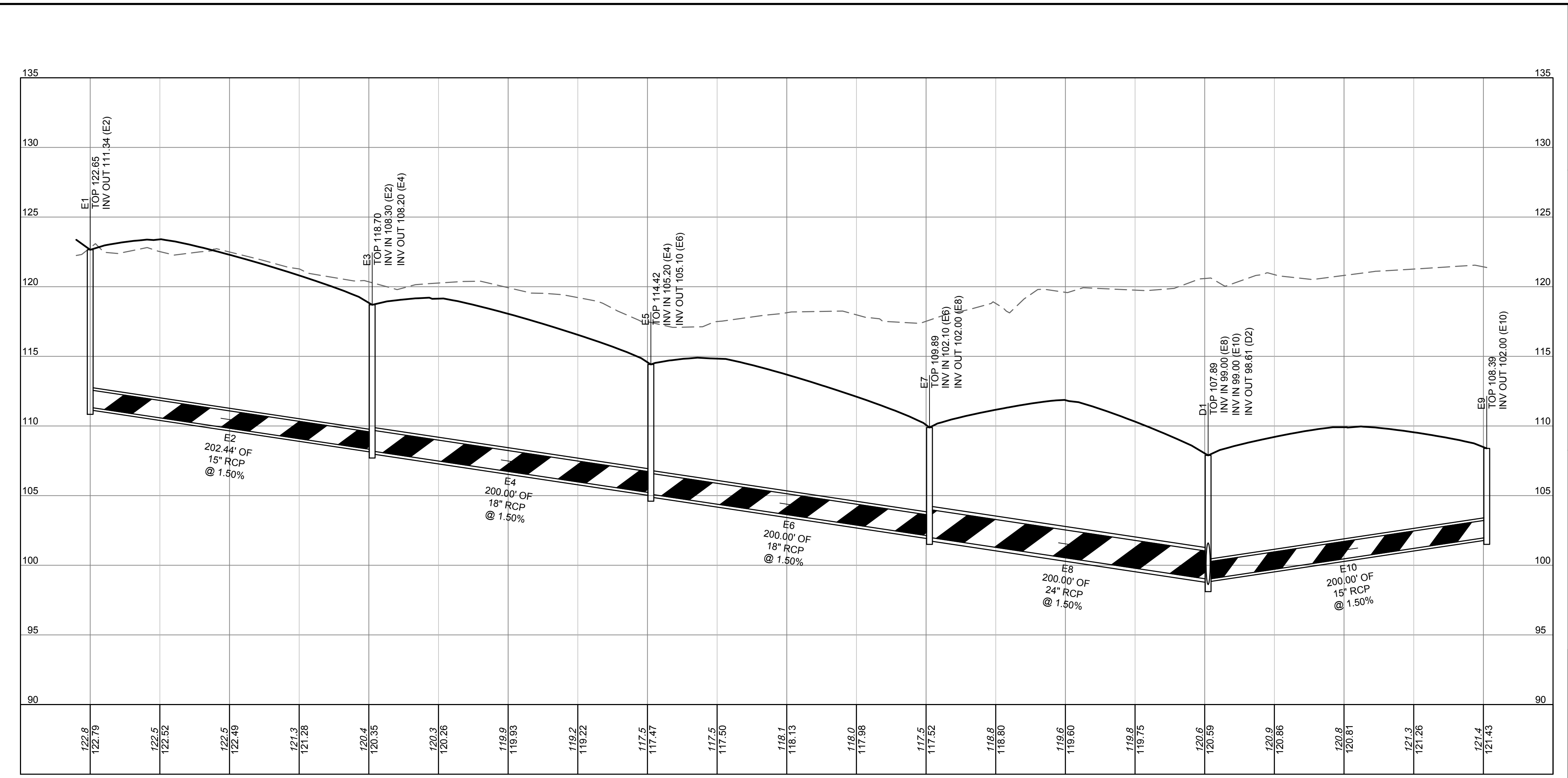
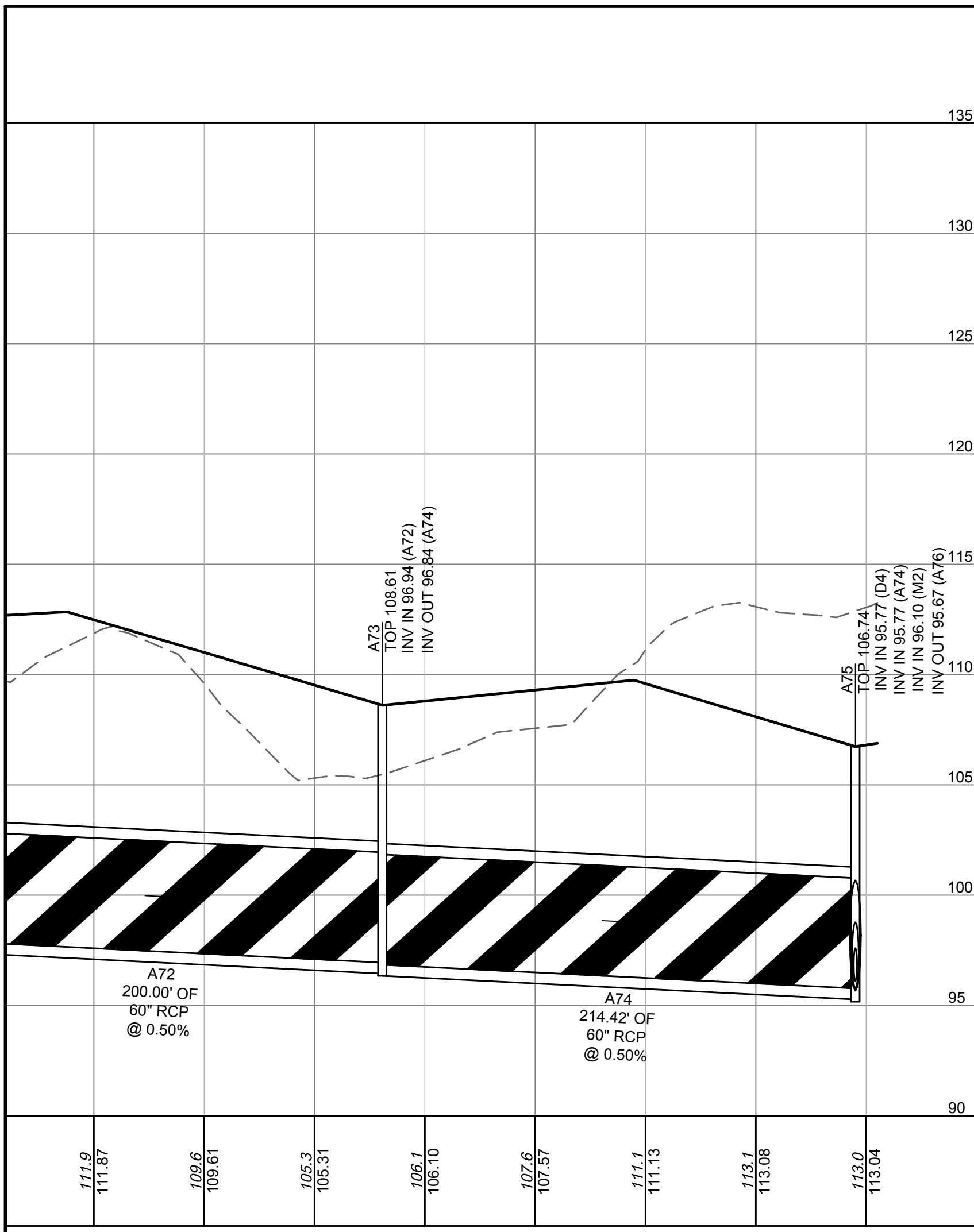
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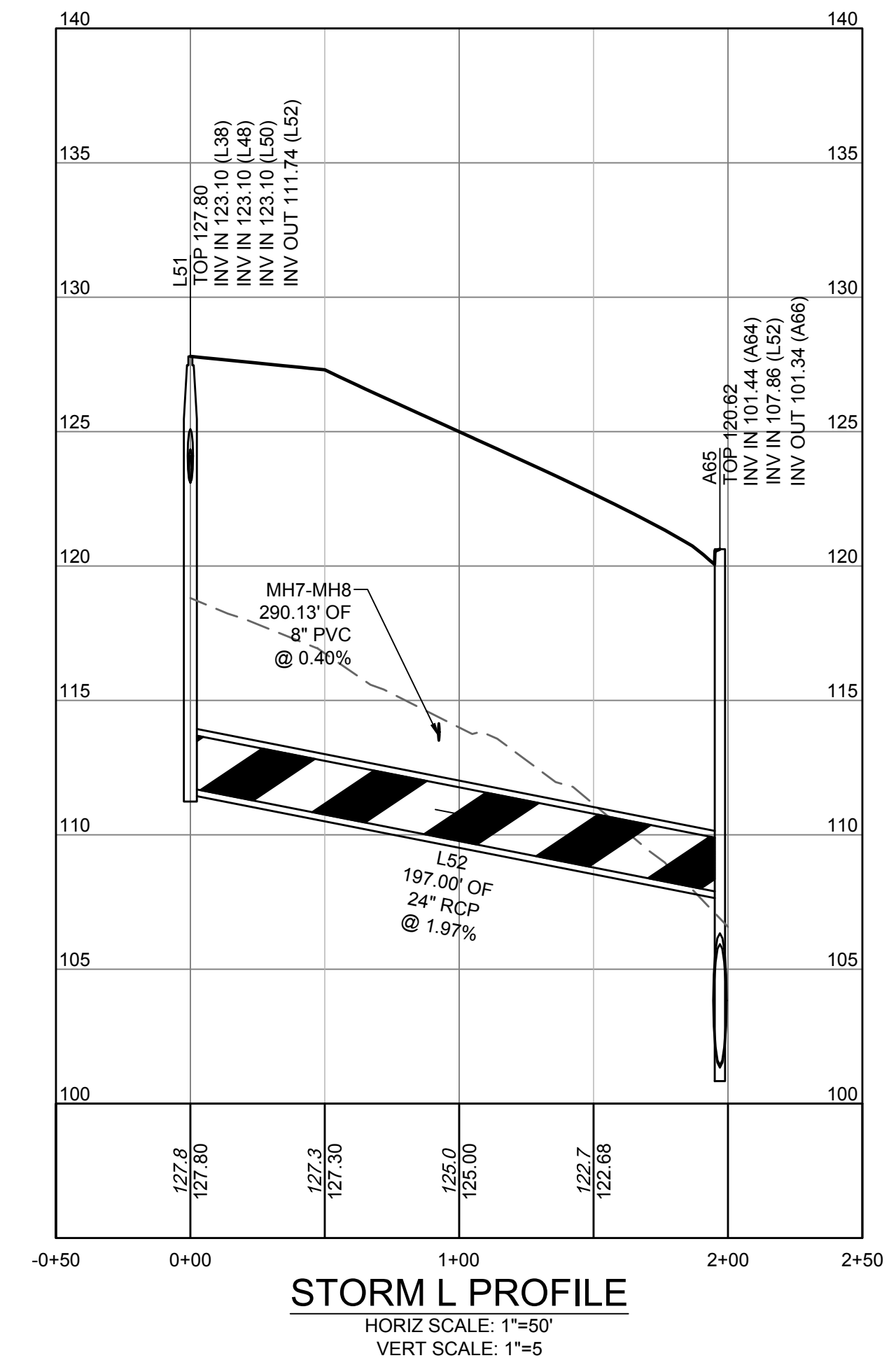
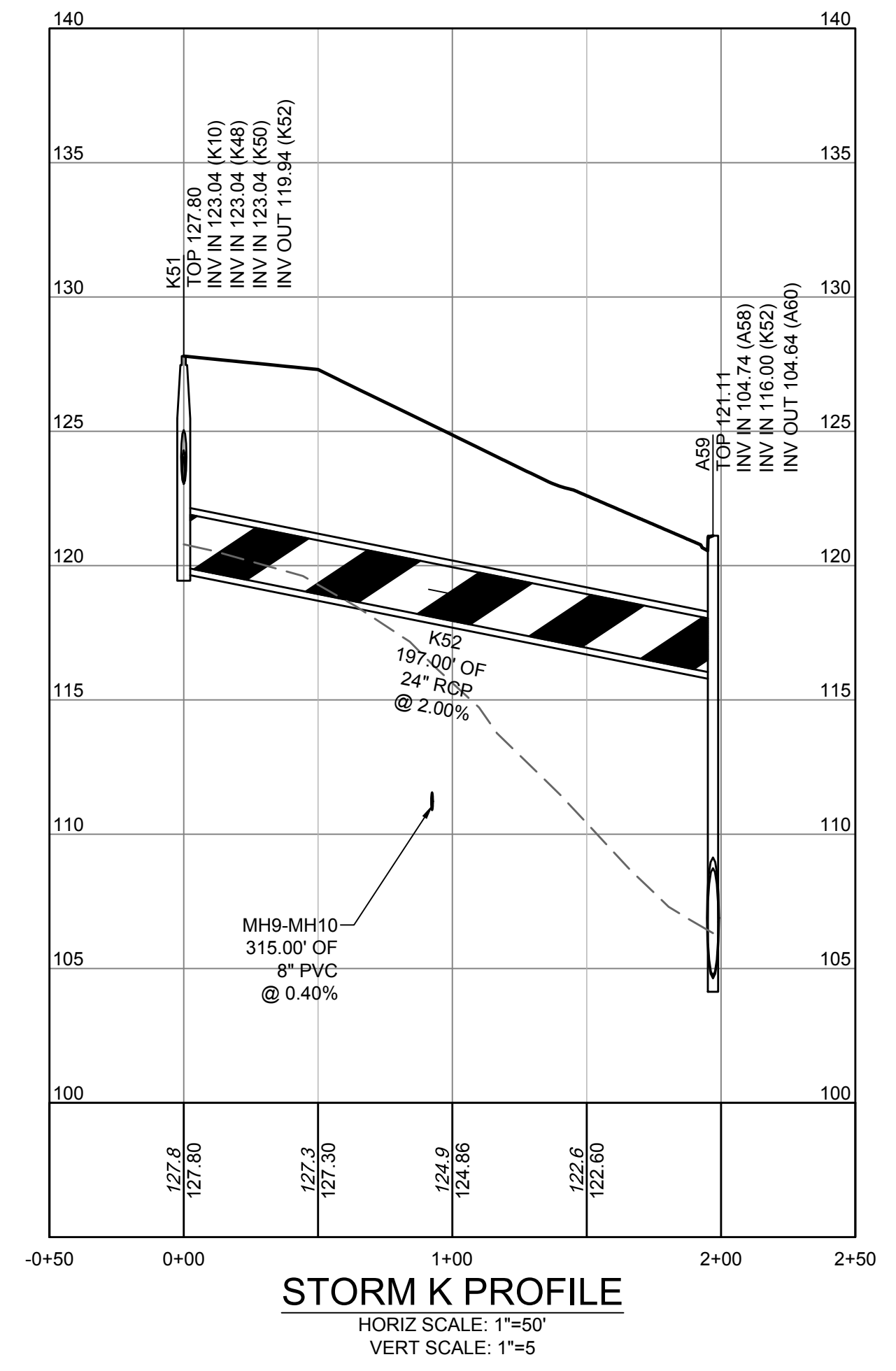
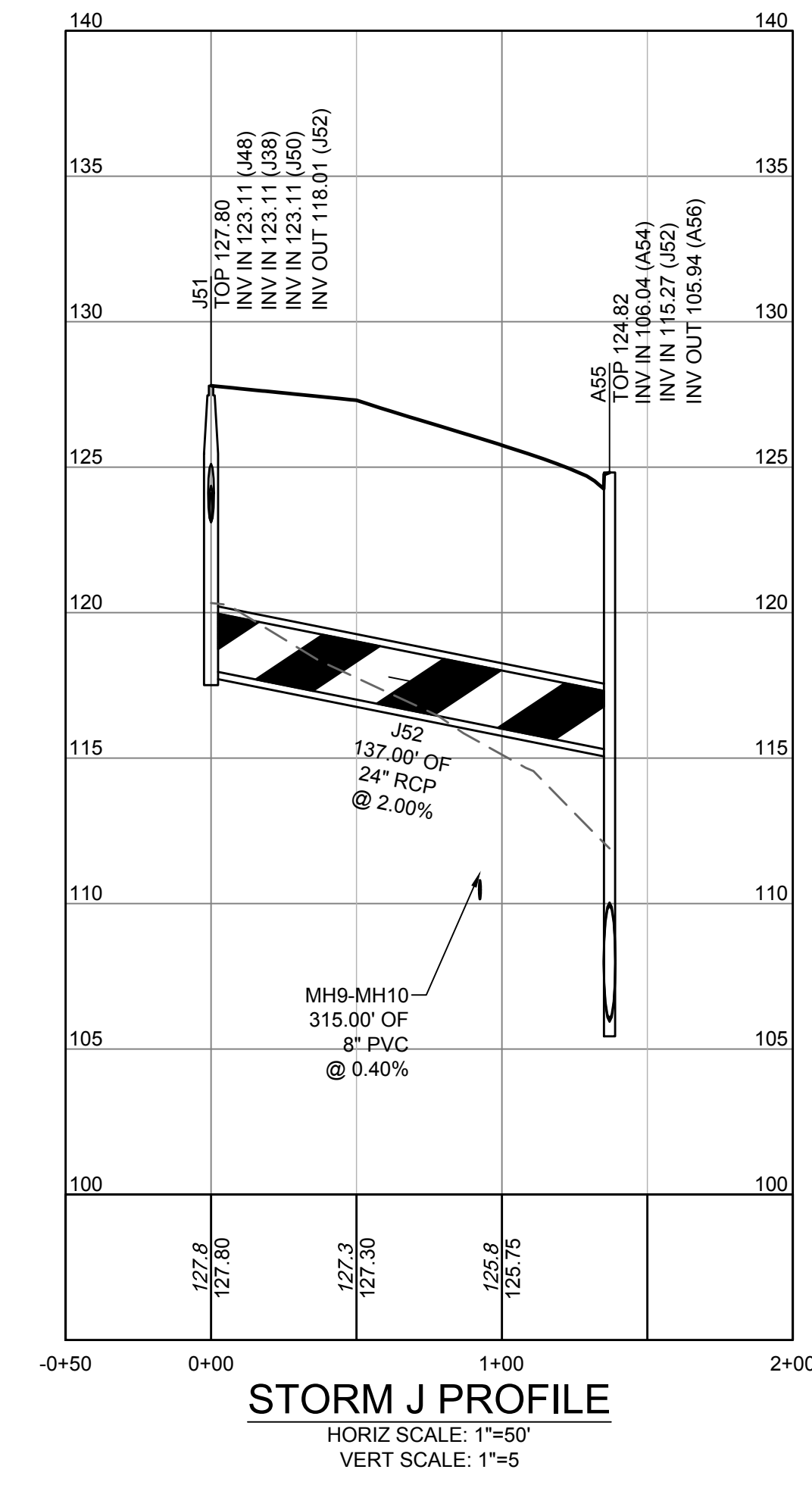
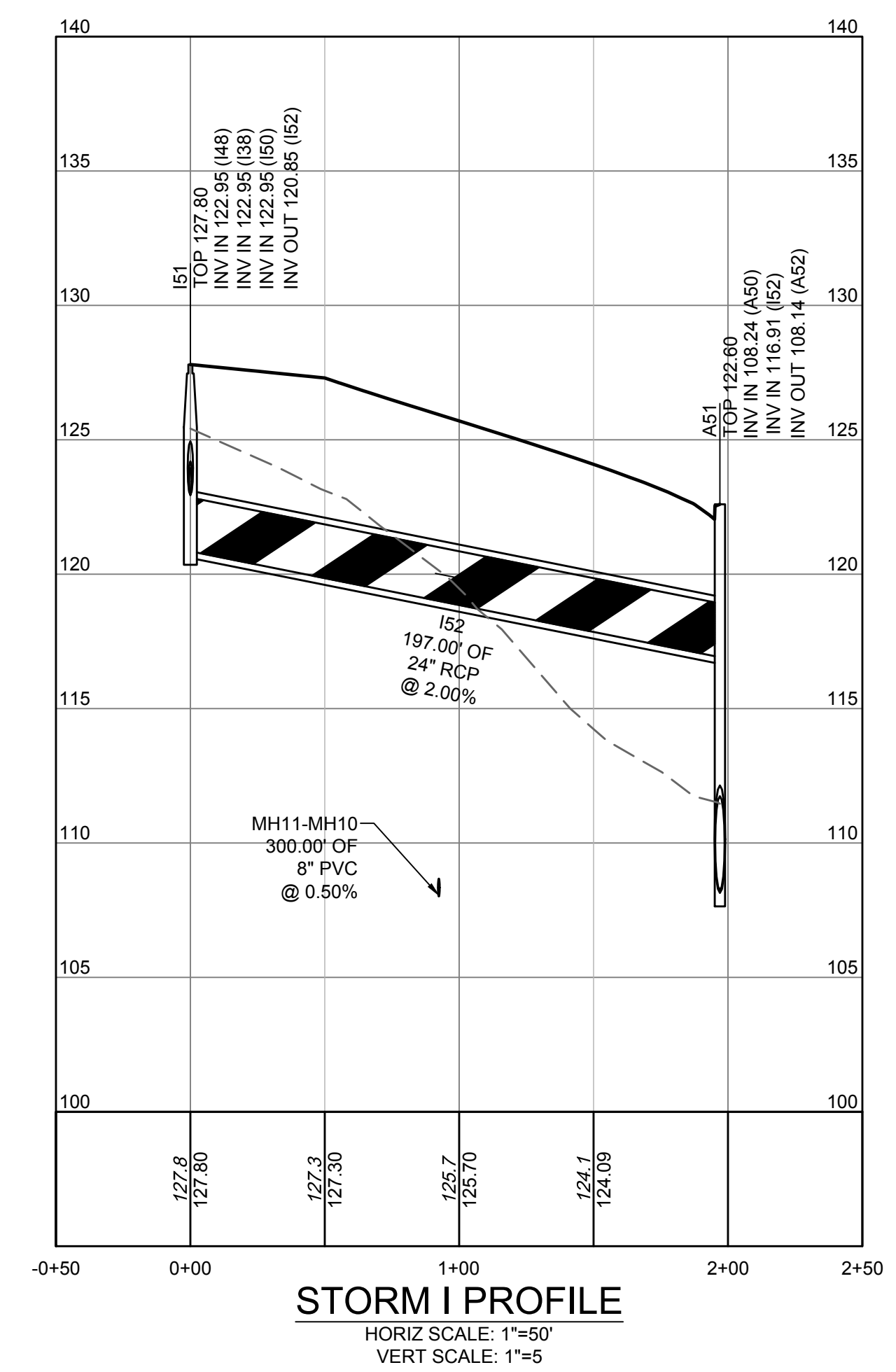
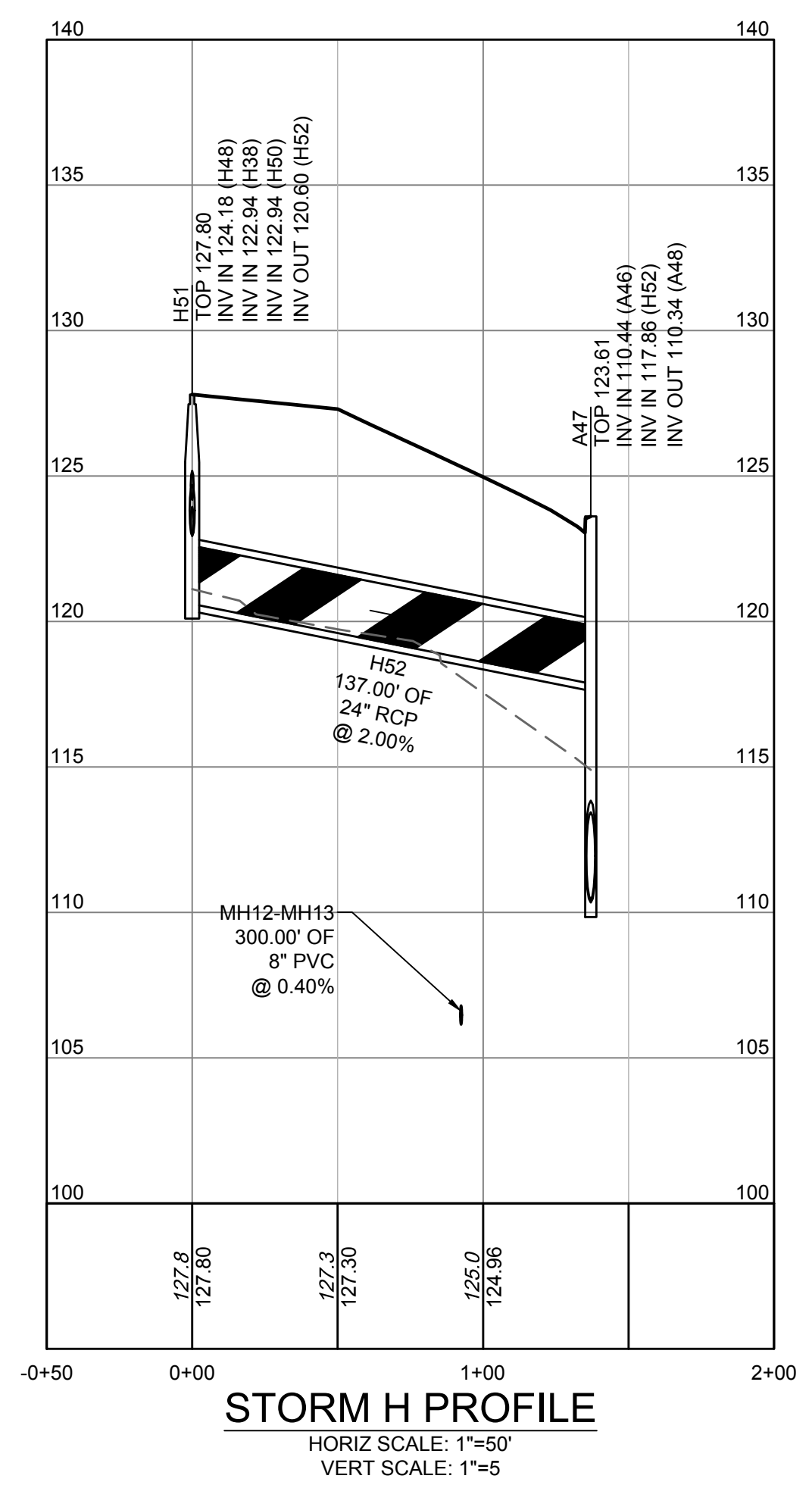
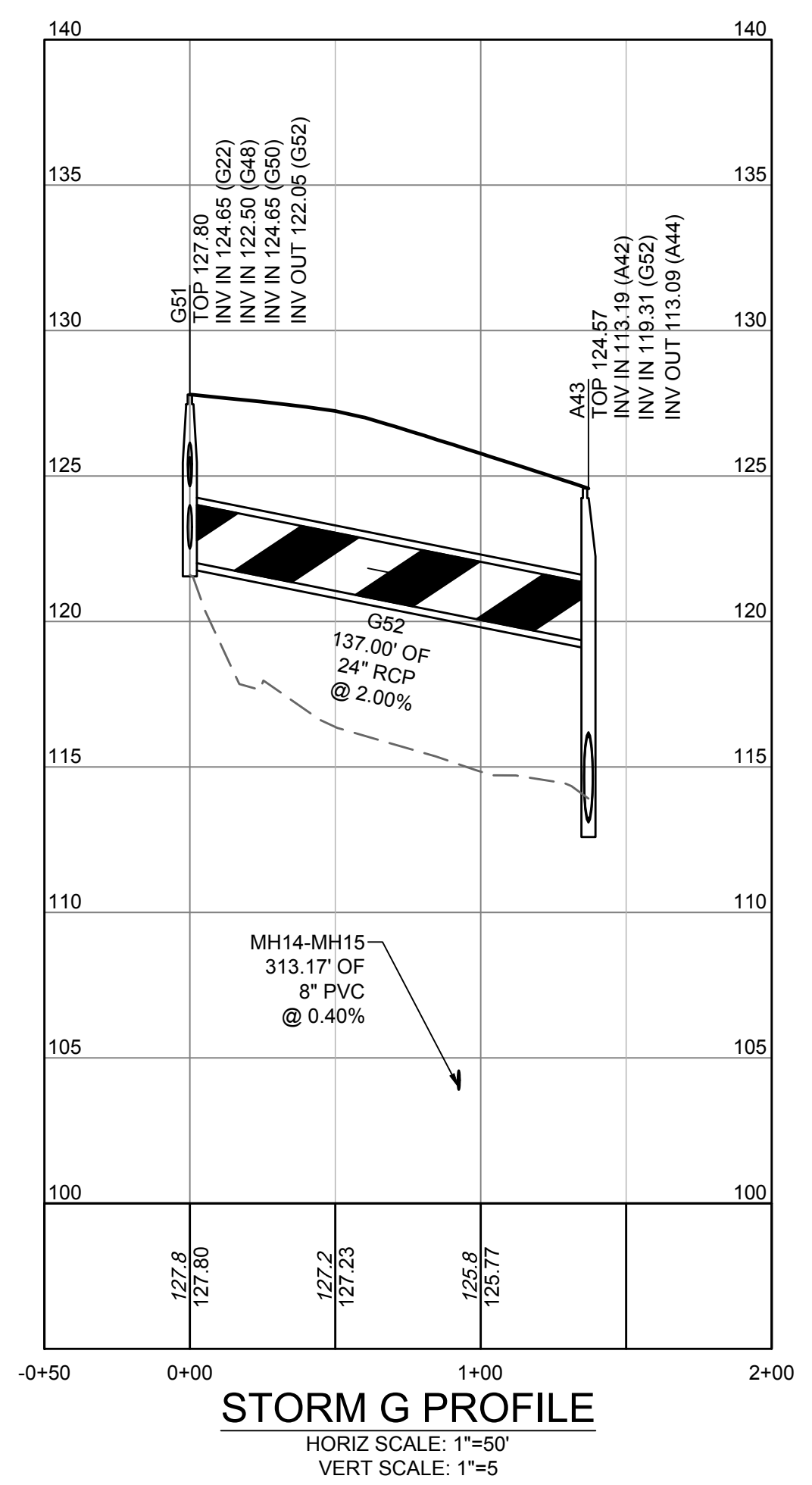
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 CHECKED BY
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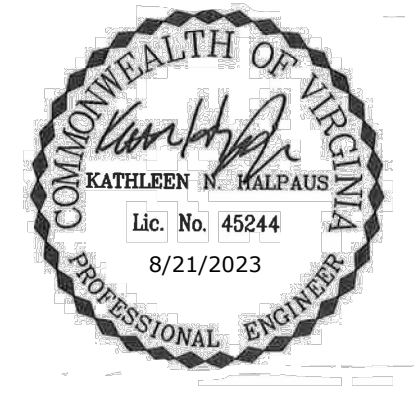
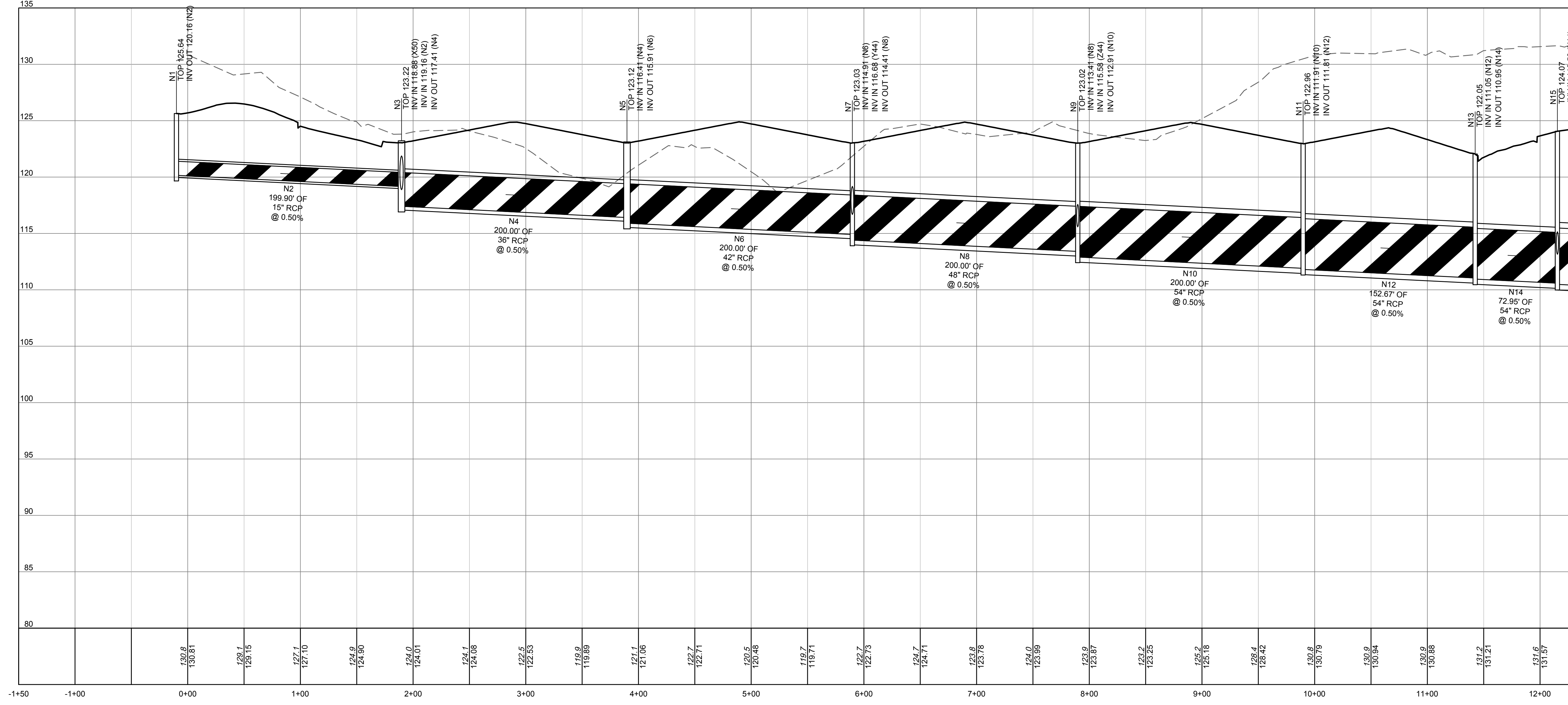
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STORM SEWER PROFILES

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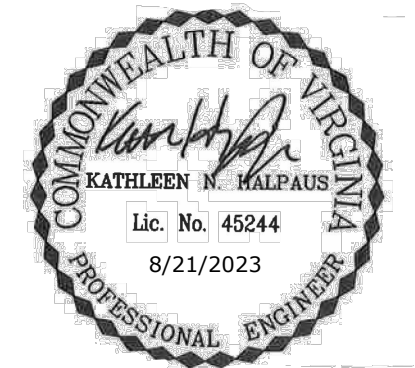
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FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA
 STORM SEWER PROFILES

JOB NO. 58776
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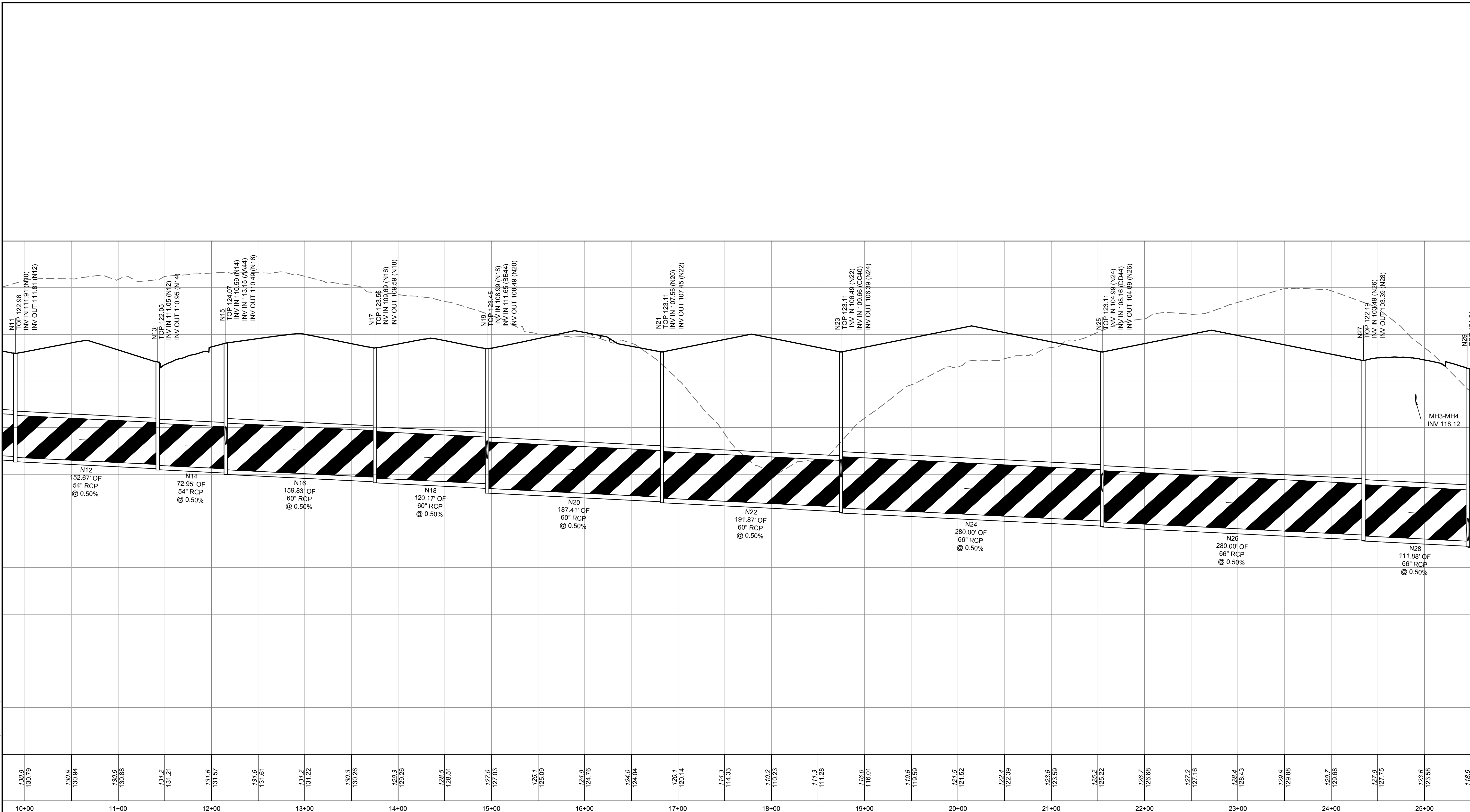
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FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA

STORM SEWER PROFILES

JOB NO. 58776
 SHEET NO. C5.5



Storm 3 Alignment N PROFILE
 HORIZ SCALE: 1"=50'
 VERT SCALE: 1"=5'

S:\10646229-Loop_Scammell-New_Kent_City_Center\DWG\SheetCD - Building Two\8776-C5.0-PROF.dwg | Printed on 8/21/2023 11:25 PM | by Kathleen Halpaus

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SCALE

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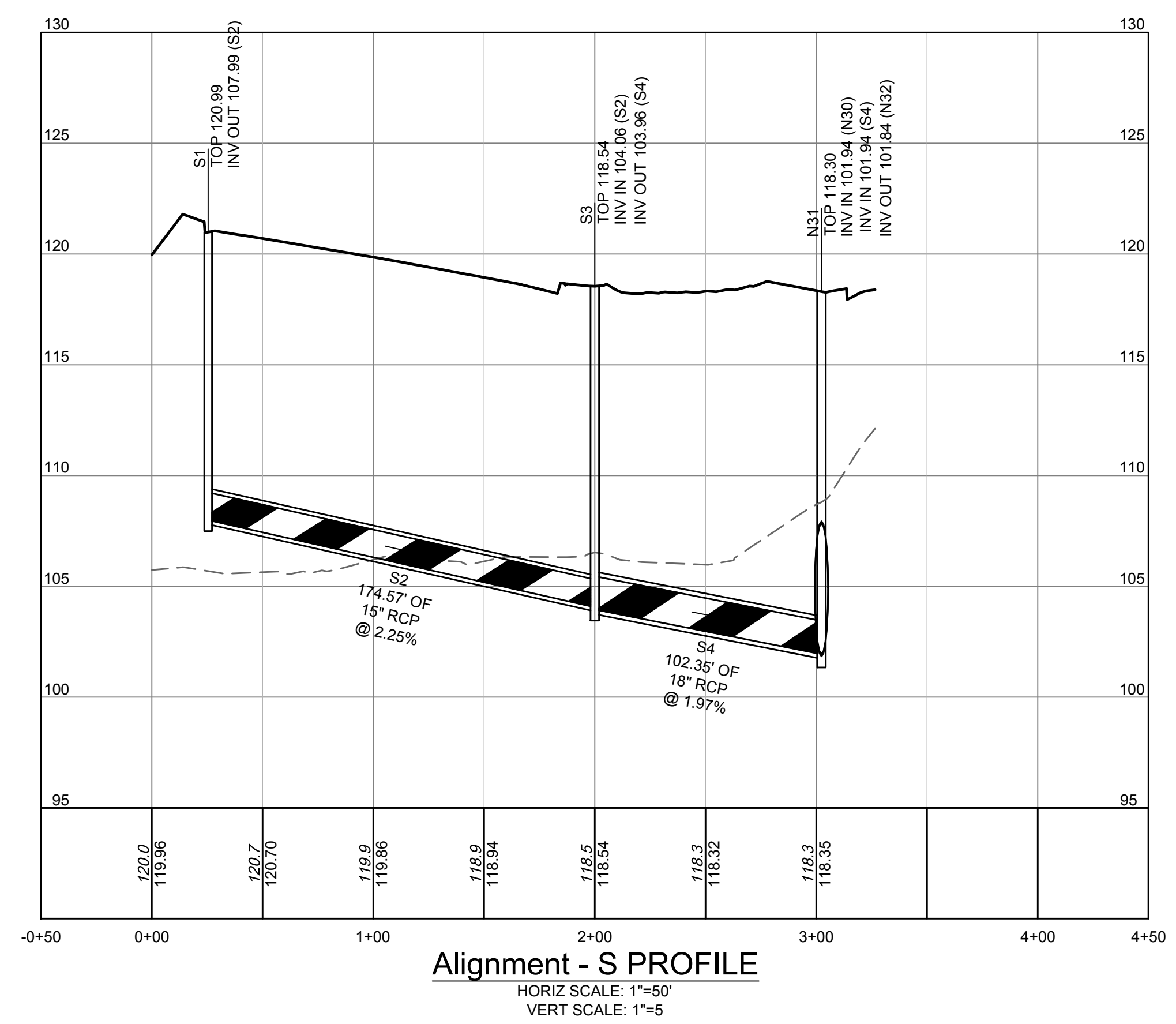
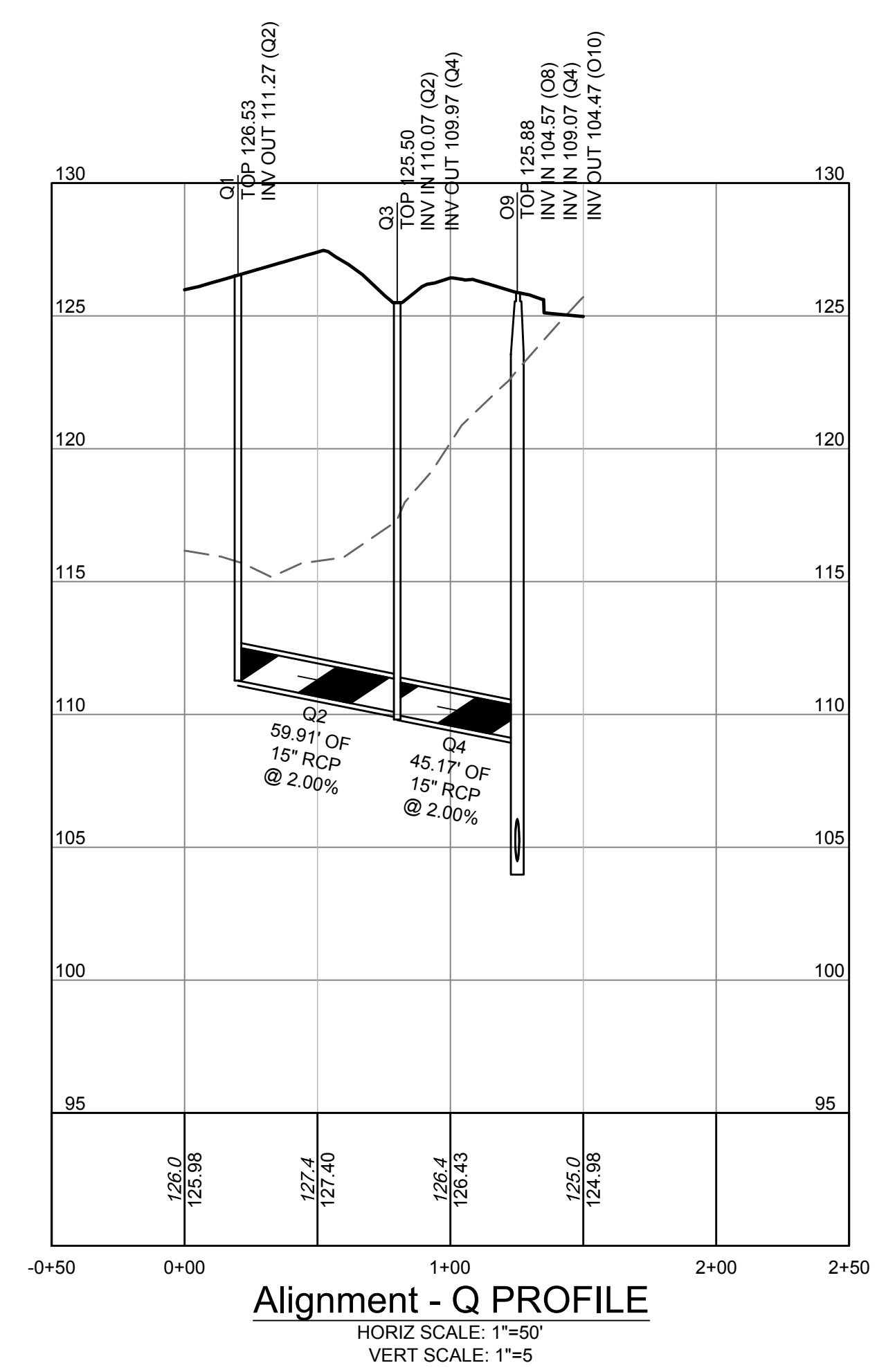
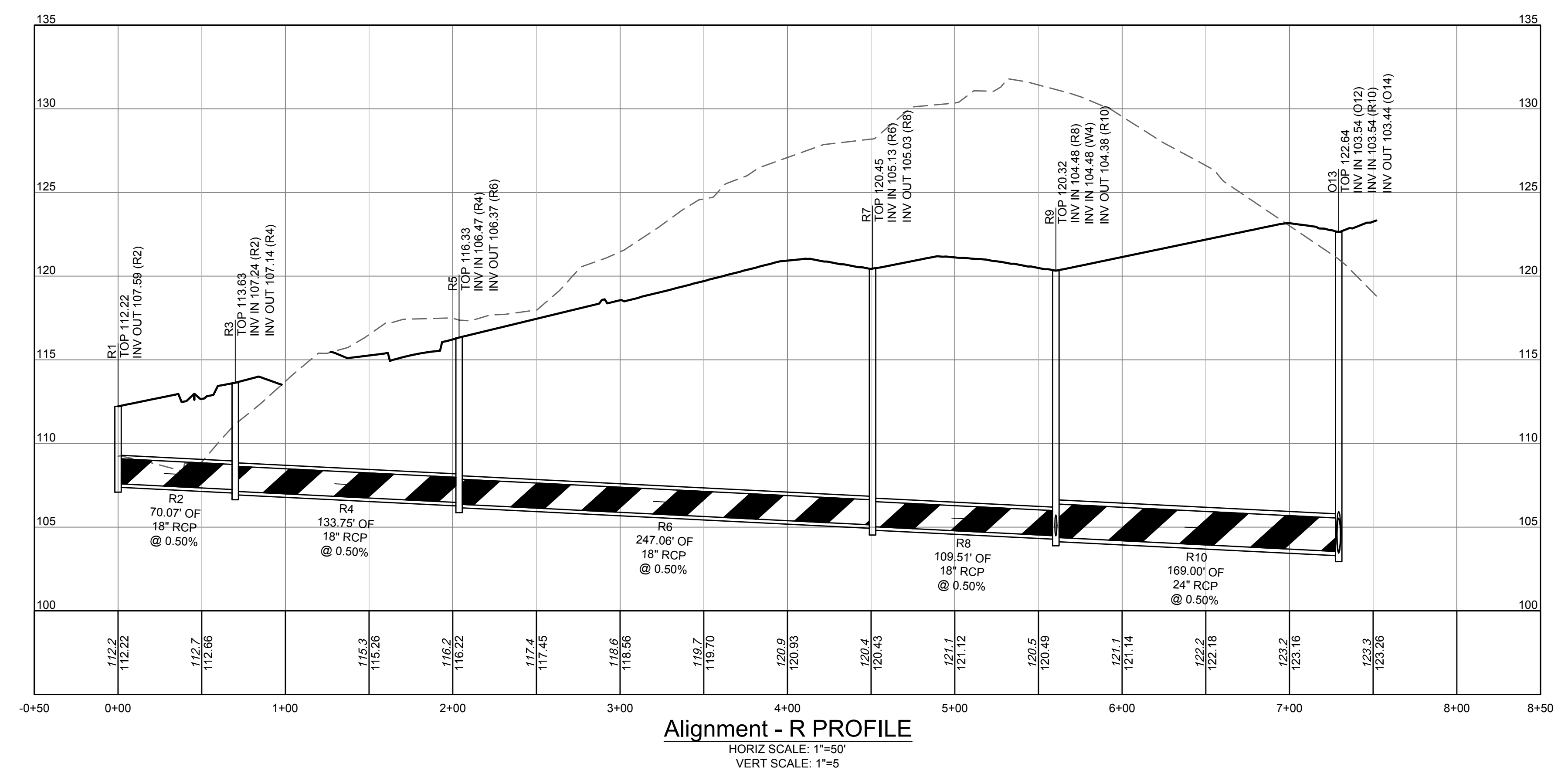
FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA

STORM SEWER PROFILES

JOB NO.
58776

SHEET NO.
C5.7

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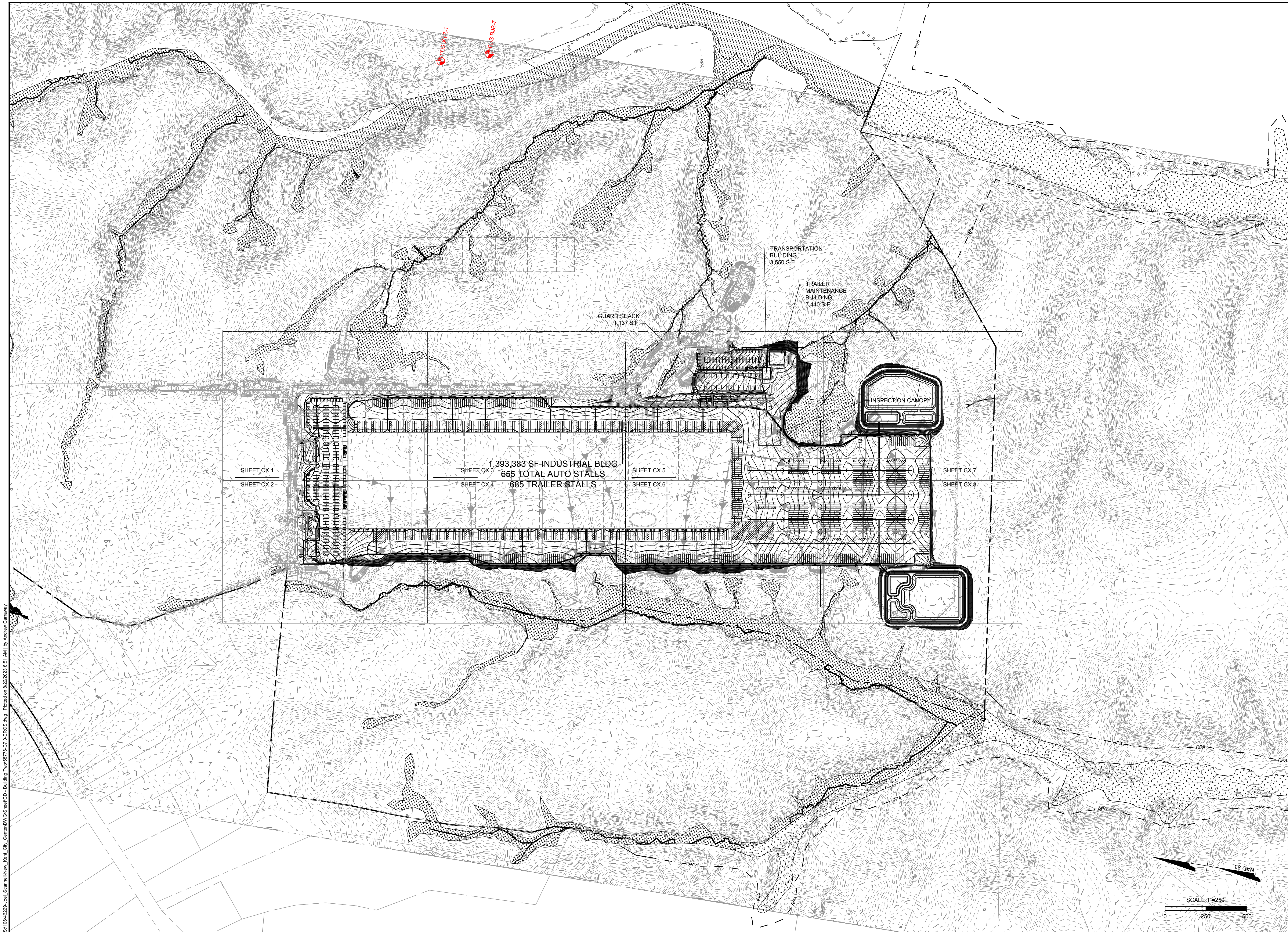
STORM STRUCTURE TABLE											
STRUCTURE #	TOP	STRUCTURE HEIGHT	DESCRIPTION	STRUCTURE #	TOP	STRUCTURE HEIGHT	DESCRIPTION	STRUCTURE #	TOP	STRUCTURE HEIGHT	DESCRIPTION
A1	127.37	4.83'	DI-3C 6 ft Throat	G33	127.95	3.35'	6" Cleanout	J19	127.95	3.58'	6" Cleanout
A3	128.01	5.86'	DI-3C 6 ft Throat	G35	127.80	3.77'	6" Cleanout	J21	127.80	3.60'	6" Cleanout
A5	128.88	7.72'	DI-3C 6 ft Throat	G37	127.95	3.73'	6" Cleanout	J23	127.95	3.82'	6" Cleanout
A7	128.96	8.04'	DI-3C 6 ft Throat	G39	127.80	4.15'	6" Cleanout	J25	127.80	3.84'	6" Cleanout
A9	128.03	7.58'	DI-3B 6 ft Throat	G41	127.95	4.11'	6" Cleanout	J27	127.95	4.06'	6" Cleanout
A11	127.35	7.16'	DI-3C 6 ft Throat	G43	127.80	4.58'	6" Cleanout	J29	127.80	4.08'	6" Cleanout
A13	127.08	7.10'	DI-3C 6 ft Throat	G45	127.95	4.49'	6" Cleanout	J31	127.95	4.30'	6" Cleanout
A15	127.42	7.75'	DI-3C 6 ft Throat	G47	127.80	4.96'	6" Cleanout	J33	127.80	4.32'	6" Cleanout
A17	127.55	8.07'	DI-3B 6 ft Throat	G49	127.95	2.14'	6" Cleanout	J35	127.95	4.54'	6" Cleanout
A19	126.51	7.50'	DI-3B 6 ft Throat	G51	127.80	5.75'	MH-1	J37	127.80	4.56'	6" Cleanout
A21	126.52	8.36'	DI-3B 6 ft Throat	H1	127.95	2.53'	6" Cleanout	J39	127.95	4.19'	6" Cleanout
A23	128.04	10.35'	DI-3B 6 ft Throat	H3	127.95	2.70'	6" Cleanout	J41	127.95	4.28'	6" Cleanout
A25	128.17	10.71'	DI-3C 6 ft Throat	H5	127.80	2.80'	6" Cleanout	J43	127.80	4.30'	6" Cleanout
A27	128.35	11.33'	DI-3C 6 ft Throat	H7	127.95	2.94'	6" Cleanout	J45	127.95	4.28'	6" Cleanout
A29	127.64	10.97'	MH-1	H9	127.80	3.04'	6" Cleanout	J47	127.80	4.54'	6" Cleanout
A31	123.00	7.15'	DI-3B 6 ft Throat	H11	127.95	3.18'	6" Cleanout	J49	127.95	4.76'	6" Cleanout
A33	122.62	7.08'	DI-3C 6 ft Throat	H13	127.80	3.28'	6" Cleanout	J51	127.80	9.79'	MH-1
A35	122.74	7.44'	DI-3B 6 ft Throat	H15	127.95	3.42'	6" Cleanout	K1	127.95	4.32'	6" Cleanout
A37	124.03	9.14'	DI-3C 6 ft Throat	H17	127.80	3.52'	6" Cleanout	K3	127.95	4.41'	6" Cleanout
A39	124.51	10.43'	MH-1	H19	127.95	3.66'	6" Cleanout	K5	127.80	4.43'	6" Cleanout
A41	124.25	10.81'	DI-3C 6 ft Throat	H21	127.80	3.76'	6" Cleanout	K7	127.95	4.65'	6" Cleanout
A43	124.57	11.48'	MH-1	H23	127.95	3.90'	6" Cleanout	K9	127.80	4.67'	6" Cleanout
A45	123.62	11.78'	DI-3C 6 ft Throat	H25	127.80	4.00'	6" Cleanout	K11	127.95	2.53'	6" Cleanout
A47	123.61	13.27'	DI-3C 6 ft Throat	H27	127.95	4.14'	6" Cleanout	K13	127.95	2.62'	6" Cleanout
A49	122.44	13.20'	DI-3C 6 ft Throat	H29	127.80	4.24'	6" Cleanout	K15	127.80	2.64'	6" Cleanout
A51	122.60	14.46'	DI-3C 6 ft Throat	H31	127.95	4.38'	6" Cleanout	K17	127.95	2.86'	6" Cleanout
A53	122.60	15.56'	DI-3C 6 ft Throat	H33	127.80	4.48'	6" Cleanout	K19	127.80	2.88'	6" Cleanout
A55	124.82	18.88'	DI-3C 6 ft Throat	H35	127.95	4.62'	6" Cleanout	K21	127.95	3.10'	6" Cleanout
A57	124.12	19.03'	DI-3B 6 ft Throat	H37	127.80	4.72'	6" Cleanout	K23	127.80	3.12'	6" Cleanout
A59	121.11	16.48'	DI-3B 6 ft Throat	H39	127.95	2.70'	6" Cleanout	K25	127.95	3.34'	6" Cleanout
A61	121.97	18.43'	DI-3C 6 ft Throat	H41	127.95	2.86'	6" Cleanout	K27	127.80	3.36'	6" Cleanout
A63	121.73	19.30'	DI-3C 6 ft Throat	H43	127.80	2.96'	6" Cleanout	K29	127.95	3.58'	6" Cleanout
A65	120.62	19.28'	DI-3C 6 ft Throat	H45	127.95	3.24'	6" Cleanout	K31	127.80	3.60'	6" Cleanout
A67	120.76	20.52'	DI-3C 6 ft Throat	H47	127.80	3.34'	6" Cleanout	K33	127.95	3.82'	6" Cleanout
A69	116.78	17.82'	DI-3C 6 ft Throat	H49	127.95	4.86'	6" Cleanout	K35	127.80	3.84'	6" Cleanout
A71	112.52	14.58'	DI-3C 6 ft Throat	H51	127.80	7.20'	MH-1	K37	127.95	4.06'	6" Cleanout
A73	108.61	11.77'	DI-3C 6 ft Throat	I1	127.95	2.53'	6" Cleanout	K39	127.80	4.08'	6" Cleanout
A75	106.74	11.07'	DI-3B 6 ft Throat	I3	127.95	2.78'	6" Cleanout	K41	127.95	4.30'	6" Cleanout
A77	96.74	12.87'	EW-1 for 15" Pipe	I5	127.80	2.80'	6" Cleanout	K43	127.80	4.32'	6" Cleanout
B1	127.36	4.12'	DI-3C 6 ft Throat	I7	127.95	3.02'	6" Cleanout	K45	127.95	4.54'	6" Cleanout
B3	128.12	5.27'	DI-3C 6 ft Throat	I9	127.80	3.04'	6" Cleanout	K47	127.80	4.56'	6" Cleanout
C1	127.41	5.79'	DI-3C 6 ft Throat	I11	127.95	3.26'	6" Cleanout	K49	127.95	4.82'	6" Cleanout
C3	127.14	7.24'	DI-3C 6 ft Throat	I13	127.80	3.28'	6" Cleanout	K51	127.80	7.86'	MH-1
D1	107.89	9.28'	DI-1	I15	127.95	3.50'	6" Cleanout	L1	127.95	2.53'	6" Cleanout
D3	107.89	10.88'	DI-1	I17	127.80	3.52'	6" Cleanout	L3	127.95	2.62'	6" Cleanout
E1	122.65	11.31'	DI-1	I19	127.95	3.74'	6" Cleanout	L5	127.80	2.64'	6" Cleanout
E3	118.70	10.50'	DI-1	I21	127.80	3.76'	6" Cleanout	L7	127.95	2.86'	6" Cleanout
E5	114.42	9.32'	DI-1	I23	127.95	3.98'	6" Cleanout	L9	127.80	2.88'	6" Cleanout
E7	109.89	7.89'	DI-1	I25	127.80	4.00'	6" Cleanout	L11	127.95	3.10'	6" Cleanout
E9	108.39	6.39'	DI-1	I27	127.95	4.22'	6" Cleanout	L13	127.80	3.12'	6" Cleanout
F1	122.65	13.20'	DI-1	I29	127.80	4.24'	6" Cleanout	L15	127.95	3.34'	6" Cleanout
F3	118.70	12.39'	DI-1	I31	127.95	4.46'	6" Cleanout	L17	127.80	3.36'	6" Cleanout
F5	114.42	11.21'	DI-1	I33	127.80	4.48'	6" Cleanout	L19	127.95	3.58'	6" Cleanout
F7	109.89	9.78'	DI-1	I35	127.95	4.70'	6" Cleanout	L21	127.80	3.60'	6" Cleanout
F9	108.39	8.28'	DI-1	I37	127.80	4.72'	6" Cleanout	L23	127.95	3.82'	6" Cleanout
G1	131.52	4.71'	6" Cleanout	I39	127.95	4.36'	6" Cleanout	L25	127.80	3.84'	6" Cleanout
G3	130.83	3.19'	6" Cleanout	I41	127.95	3.45'	6" Cleanout	L27	127.95	4.06'	6" Cleanout
G5	130.42	4.03'	6" Cleanout	I43	127.80	4.47'	6" Cleanout	L29	127.80	4.08'	6" Cleanout
G7	130.14	2.88'	6" Cleanout	I45	127.95	4.69'	6" Cleanout	L31	127.95	4.30'	6" Cleanout
G9	129.77	3.76'	6" Cleanout	I47	127.80	4.71'	6" Cleanout	L33	127.80	4.32'	6" Cleanout
G11	129.47	2.59'	6" Cleanout	I49	127.95	4.92'	6" Cleanout	L35	127.95	4.54'	6" Cleanout
G13	129.15	3.52'	6" Cleanout	I51	127.80	6.95'	MH-1	L37	127.80	4.56'	6" Cleanout
G15	128.81	2.31'	6" Cleanout	J1	127.95	2.53'	6" Cleanout	L39	127.95	4.22'	6" Cleanout
G17	128.57	3.32'	6" Cleanout	J3	127.95	2.62'	6" Cleanout	L41	127.95	4.31'	6" Cleanout
G19	128.12	2.00'	6" Cleanout	J5	127.80	2.64'	6" Cleanout	L43	127.80	4.33'	6" Cleanout
G21	127.97	3.10'	6" Cleanout	J7	127.95	2.86'	6" Cleanout	L45	127.95	4.55'	6" Cleanout
G23	127.95	2.74'	6" Cleanout	J9	127.80	2.88'	6" Cleanout	L47	127.80	4.57'	6" Cleanout
G25	127.95	2.59'	6" Cleanout	J11	127.95	3.10'	6" Cleanout	L49	127.95	4.77'	6" Cleanout
G27	127.80	3.01'	6" Cleanout	J13	127.80	3.12'	6" Cleanout	L51	127.80	16.06'	MH-1
G29	127.95	2.97'	6" Cleanout	J15	127.95	3.34'	6" Cleanout	M1	106.46	9.28'	DI-3B 6 ft Throat
G31	127.80	3.39'	6" Cleanout	J17	127.80	3.36'	6" Cleanout				

STORM PIPE TABLE											
PIPE #	DIA	FROM - TO	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DESCRIPTION				
A2	15"	A1 - A3	122.54	122.25	0.50%	57.00 LF	15 inch RCP				
A4	18"	A3 - A5	122.15	121.26	0.50%	178.40 LF	18 inch RCP				
A6	18"	A5 - A7	121.16	121.02	0.50%	27.53 LF	18 inch RCP				
A8	18"	A7 - A9	120.92	120.55	0.50%	74.38 LF	18 inch RCP				
A10	24"	A9 - A11	120.45	120.29	0.50%	32.12 LF	24 inch RCP				
A12	24"	A11 - A13	120.19	120.08	0.50%	22.54 LF	24 inch RCP				
A14	24"	A13 - A15	119.98	119.77	0.50%	41.68 LF	24 inch RCP				
A16	24"	A15 - A17	119.67	119.59	0.50%	17.00 LF	24 inch RCP				
A18	24"	A17 - A19	119.48	119.11	0.50%	74.85 LF	24 inch RCP				
A20	24"	A19 - A21	119.01	118.26	0.50%	149.92 LF	24 inch RCP				
A22	36"	A21 - A23	118.16	117.79	0.50%	74.41 LF	36 inch RCP				
A24	36"	A23 - A25	117.69	117.56	0.50%	26.00 LF	36 inch RCP				
A26	36"	A25 - A27	117.46	117.12	0.50%	68.92 LF	36 inch RCP				
A28	36"	A27 - A29	117.02	116.77	0.50%	50.61 LF	36 inch RCP				
A30	36"	A29 - A31	116.67	115.95	0.50%	143.12 LF	36 inch RCP				
A32	36"	A31 - A33	115.85	115.64	0.50%	41.83 LF	36 inch RCP				
A34	36"	A33 - A35	115.54	115.40	0.50%	28.93 LF	36 inch RCP				
A36	36"	A35 - A37	115.30	114.99	0.50%	61.08 LF	36 inch RCP				
A38	36"	A37 - A39	114.89	114.18	0.50%	142.26 LF	36 inch RCP				
A40	36"	A39 - A41	114.08	113.54	0.54%	100.00 LF	36 inch RCP				
A42	36"	A41 - A43	113.44	113.19	0.50%	50.00 LF	36 inch RCP				
A44	36"	A43 - A45	113.09	111.94	0.50%	230.00 LF	36 inch RCP				
A46	36"	A45 - A47	111.84	110.44	0.50%	280.00 LF	36 inch RCP				
A48	42"	A47 - A49	110.34	109.34	0.50%	200.00 LF	42 inch RCP				
A50	42"	A49 - A51	109.24	108.24	0.50%	200.00 LF	42 inch RCP				
A52	48"	A51 - A53	108.14	107.14	0.50%	200.00 LF	48 inch RCP				
A54	48"	A53 - A55	107.04	106.04	0.50%	200.00 LF	48 inch RCP				
A56	48"	A55 - A57	105.94	105.19	0.50%	150.00 LF	48 inch RCP				
A58	48"	A57 - A59	105.09	104.74	0.50%	70.70 LF	48 inch RCP				
A60	54"	A59 - A61	104.64	103.64	0.50%	200.00 LF	54 inch RCP				
A62	54"	A61 - A63	103.54	102.54	0.50%	200.00 LF	54 inch RCP				
A64	54"	A63 - A65	102.44	101.44	0.50%	200.00 LF	54 inch RCP				
A66	60"	A65 - A67	101.34	100.34	0.50%	200.00 LF	60 inch RCP				
A68	60"	A67 - A69	100.24	99.06	0.50%	234.58 LF	60 inch RCP				
A70	60"	A69 - A71	98.96	98.14	0.50%	165.42 LF	60 inch RCP				
A72	60"	A71 - A73	97.94	96.94	0.50%	200.00 LF	60 inch RCP				
A74	60"	A73 - A75	96.84	95.77	0.50%	214.42 LF	60 inch RCP				
A76	60"	A75 - A77	95.67	95.22	0.50%	89.18 LF	60 inch RCP				
B2	15"	B1 - B3	123.24	122.95	0.50%	57.00 LF	15 inch RCP				
B4	18"	B3 - A3	122.85	122.25	0.50%	120.00 LF	18 inch RCP				
C2	15"	C1 - C3	121.62	121.50	0.50%	23.06 LF	15 inch RCP				
C4	15"	C3 - A29	119.90	119.67	0.50%	46.07 LF	15 inch RCP				
D2	36"	D1 - D3	98.61	97.11	1.00%	149.97 LF	36 inch RCP				
D4	36"	D3 - A75	97.01	95.77	1.00%	124.04 LF	36 inch RCP				
E2	15"	E1 - E3	111.34	108.30	1.50%	202.44 LF	15 inch RCP				
E4	18"	E3 - E5	108.20	105.20	1.50%	200.00 LF	18 inch RCP				
E6	18"	E5 - E7	105.10	102.10	1.50%	200.00 LF	18 inch RCP				
E8	24"	E7 - D1	102.00	99.00	1.50%	200.00 LF	24 inch R				

STORM STRUCTURE TABLE			
STRUCTURE #	TOP	STRUCTURE HEIGHT	DESCRIPTION
AA1	127.95	9.80'	6" Cleanout
AA3	127.95	9.82'	6" Cleanout
AA5	127.80	9.92'	6" Cleanout
AA7	127.95	10.20'	6" Cleanout
AA9	127.80	10.30'	6" Cleanout
AA11	127.95	10.58'	6" Cleanout
AA13	127.80	10.68'	6" Cleanout
AA15	127.95	10.96'	6" Cleanout
AA17	127.80	11.06'	6" Cleanout
AA19	127.95	11.34'	6" Cleanout
AA21	127.80	11.44'	6" Cleanout
AA23	127.95	10.77'	6" Cleanout
AA25	127.95	10.36'	6" Cleanout
AA27	127.95	10.38'	6" Cleanout
AA29	127.80	10.48'	6" Cleanout
AA31	127.95	10.76'	6" Cleanout
AA33	127.80	10.86'	6" Cleanout
AA35	127.95	11.14'	6" Cleanout
AA37	127.80	11.24'	6" Cleanout
AA39	127.95	11.52'	6" Cleanout
AA41	127.80	11.62'	6" Cleanout
AA43	127.80	11.91'	48" Basic Manhole
BB1	127.95	12.06'	6" Cleanout
BB3	127.95	12.08'	6" Cleanout
BB5	127.80	12.18'	6" Cleanout
BB7	127.95	12.46'	6" Cleanout
BB9	127.80	12.56'	6" Cleanout
BB11	127.95	12.84'	6" Cleanout
BB13	127.80	12.94'	6" Cleanout
BB15	127.95	11.77'	6" Cleanout
BB17	127.95	11.10'	6" Cleanout
BB19	127.95	11.12'	6" Cleanout
BB21	127.80	11.22'	6" Cleanout
BB23	127.95	11.50'	6" Cleanout
BB25	127.80	11.60'	6" Cleanout
BB27	127.95	11.88'	6" Cleanout
BB29	127.80	11.98'	6" Cleanout
BB31	127.95	12.26'	6" Cleanout
BB33	127.80	12.36'	6" Cleanout
BB35	127.95	12.64'	6" Cleanout
BB37	127.80	12.74'	6" Cleanout
BB39	127.95	13.02'	6" Cleanout
BB41	127.80	13.12'	6" Cleanout
BB43	127.80	13.41'	48" Basic Manhole
CC1	127.95	13.42'	6" Cleanout
CC3	127.95	13.59'	6" Cleanout
CC5	127.80	13.54'	6" Cleanout
CC7	127.95	13.82'	6" Cleanout
CC9	127.80	13.92'	6" Cleanout
CC11	127.95	14.20'	6" Cleanout
CC13	127.80	14.30'	6" Cleanout
CC15	127.95	14.58'	6" Cleanout
CC17	127.80	14.68'	6" Cleanout
CC19	127.95	14.96'	6" Cleanout
CC21	127.80	15.06'	6" Cleanout
CC23	127.95	14.95'	6" Cleanout
CC25	127.95	14.10'	6" Cleanout
CC27	127.95	14.12'	6" Cleanout
CC29	127.80	14.22'	6" Cleanout
CC31	127.95	14.50'	6" Cleanout
CC33	127.80	14.60'	6" Cleanout
CC35	127.95	14.88'	6" Cleanout
CC37	127.80	14.98'	6" Cleanout
CC39	127.80	15.40'	48" Basic Manhole
DD1	127.95	15.30'	6" Cleanout
DD3	127.95	15.32'	6" Cleanout
DD5	127.80	15.42'	6" Cleanout
DD7	127.95	15.70'	6" Cleanout
DD9	127.80	15.80'	6" Cleanout
DD11	127.95	16.08'	6" Cleanout
DD13	127.80	16.18'	6" Cleanout
DD15	127.95	16.46'	6" Cleanout

STRUCTURE #	TOP	STRUCTURE HEIGHT	DESCRIPTION	STRUCTURE #	TOP	STRUCTURE HEIGHT	DESCRIPTION
DD17	127.80	16.56'	6" Cleanout	X1	131.91	8.02'	6" Cleanout
DD19	127.95	15.79'	6" Cleanout	X3	131.88	8.16'	6" Cleanout
DD21	127.83	14.72'	6" Cleanout	X5	131.11	7.49'	6" Cleanout
DD23	127.95	14.86'	6" Cleanout	X7	127.95	4.46'	6" Cleanout
DD25	127.73	14.89'	6" Cleanout	X9	127.80	4.56'	6" Cleanout
DD27	127.95	15.24'	6" Cleanout	X11	127.95	4.84'	6" Cleanout
DD29	127.80	15.34'	6" Cleanout	X13	127.80	4.94'	6" Cleanout
DD31	127.95	15.62'	6" Cleanout	X15	127.95	5.22'	6" Cleanout
DD33	127.80	15.72'	6" Cleanout	X17	127.80	5.32'	6" Cleanout
DD35	127.95	16.00'	6" Cleanout	X19	127.95	5.60'	6" Cleanout
DD37	127.80	16.10'	6" Cleanout	X21	127.80	5.70'	6" Cleanout
DD39	127.95	16.38'	6" Cleanout	X23	127.95	5.98'	6" Cleanout
DD41	127.80	16.48'	6" Cleanout	X25	127.80	6.08'	6" Cleanout
DD43	127.80	16.90'	48" Basic Manhole	X27	127.95	6.36'	6" Cleanout
N1	125.64	5.48'	DI-3C 6 ft Throat	X29	127.80	6.45'	6" Cleanout
N3	123.22	5.81'	DI-4C 10 ft Throat	X31	127.95	5.88'	6" Cleanout
N5	123.12	7.21'	DI-4C 10 ft Throat	X33	127.95	5.62'	6" Cleanout
N7	123.03	8.62'	DI-3C 6 ft Throat	X35	127.95	5.79'	6" Cleanout
N9	123.02	10.11'	DI-3C 6 ft Throat	X37	127.80	5.74'	6" Cleanout
N11	122.96	11.15'	DI-3C 6 ft Throat	X39	127.95	6.02'	6" Cleanout
N13	122.05	11.09'	DI-3C 6 ft Throat	X41	127.80	6.12'	6" Cleanout
N15	124.07	13.58'	DI-3B 6 ft Throat	X43	127.95	6.40'	6" Cleanout
N17	123.55	13.96'	DI-3C 6 ft Throat	X45	127.80	6.50'	6" Cleanout
N19	123.45	14.96'	DI-3C 6 ft Throat	X47	127.95	5.91'	6" Cleanout
N21	123.11	15.66'	DI-2C 6 ft Throat	X49	127.80	7.96'	MH-1
N23	123.11	16.72'	DI-2C 6 ft Throat	Y1	127.95	6.18'	6" Cleanout
N25	123.11	18.22'	DI-2C 6 ft Throat	Y3	127.95	6.20'	6" Cleanout
N27	122.19	18.80'	DI-2C 6 ft Throat	Y5	127.80	6.30'	6" Cleanout
N29	121.34	18.61'	DI-3C 6 ft Throat	Y7	127.95	6.58'	6" Cleanout
N31	118.30	16.46'	DI-3B 6 ft Throat	Y9	127.80	6.68'	6" Cleanout
N33	118.04	16.62'	DI-3C 6 ft Throat	Y11	127.95	6.96'	6" Cleanout
N35	116.43	15.48'	MH-1	Y13	127.80	7.06'	6" Cleanout
N37	115.01	14.63'	DI-3C 6 ft Throat	Y15	127.95	7.34'	6" Cleanout
N39	110.51	11.89'	DI-3B 6 ft Throat	Y17	127.80	7.44'	6" Cleanout
N41	109.23	14.46'	DI-3B 6 ft Throat	Y19	127.95	7.72'	6" Cleanout
N45	106.66	14.02'	DI-3B 6 ft Throat	Y21	127.80	7.72'	6" Cleanout
O1	111.94	4.86'	DI-3B 6 ft Throat	Y23	127.95	8.00'	6" Cleanout
O3	117.00	10.68'	DI-3B 6 ft Throat	Y25	127.80	8.10'	6" Cleanout
O5	117.88	11.85'	DI-3B 6 ft Throat	Y27	127.95	8.38'	6" Cleanout
O7	124.29	19.16'	DI-3B 6 ft Throat	Y29	127.80	8.48'	6" Cleanout
O9	125.88	21.41'	MH-1	Y31	127.95	8.76'	6" Cleanout
O11	126.29	22.28'	DI-3B 6 ft Throat	Y33	127.80	8.86'	6" Cleanout
O13	122.64	19.20'	DI-3C 6 ft Throat	Y35	127.95	8.66'	6" Cleanout
O15	122.67	19.61'	DI-3C 6 ft Throat	Y37	127.95	8.88'	6" Cleanout
P1	116.03	7.65'	DI-3B 4 ft Throat	Y39	127.80	8.78'	6" Cleanout
P3	115.40	7.44'	DI-3B 6 ft Throat	Y41	127.95	7.79'	6" Cleanout
P5	120.42	14.35'	DI-3B 6 ft Throat	Y43	127.80	9.20'	48" Basic Manhole
Q1	126.53	15.26'	30" Basin - Circular Grate	Z1	127.95	7.12'	6" Cleanout
Q3	125.50	15.69'	30" Basin - Circular Grate	Z3	127.95	7.14'	6" Cleanout
R1	112.22	4.63'	DI-3C 6 ft Throat	Z5	127.80	7.24'	6" Cleanout
R3	113.63	6.49'	DI-3B 6 ft Throat	Z7	127.95	7.52'	6" Cleanout
R5	116.33	9.96'	DI-3B 6 ft Throat	Z9	127.80	7.62'	6" Cleanout
R7	120.45	15.42'	DI-3C 6 ft Throat	Z11	127.95	7.90'	6" Cleanout
R9	120.32	15.94'	DI-3C 6 ft Throat	Z13	127.80	8.00'	6" Cleanout
S1	120.99	13.00'	DI-2C 6 ft Throat	Z15	127.95	7.80'	6" Cleanout
S3	118.54	14.59'	DI-3C 6 ft Throat	Z17	127.95	5.98'	6" Cleanout
T1	107.89	13.76'	DI-1	Z19	127.95	6.00'	6" Cleanout
T3	107.89	15.51'	DI-1	Z21	127.80	6.10'	6" Cleanout
T5	108.06	16.84'	DI-3B 6 ft Throat	Z23	127.95	6.38'	6" Cleanout
T7	91.52	24.80'	EW-1 for 15" Pipe	Z25	127.80	6.48'	6" Cleanout
U1	122.65	21.20'	DI-1	Z27	127.95	6.76'	6" Cleanout
U3	118.70	19.37'	DI-1	Z29	127.80	6.86'	6" Cleanout
U5	114.42	17.19'	DI-1	Z31	127.95	7.14'	6" Cleanout
U7	109.89	14.76'	DI-1	Z33	127.80	7.24'	6" Cleanout
U9	108.39	13.26'	DI-1	Z35	127.95	7.52'	6" Cleanout
V1	122.65	6.93'	DI-1	Z37	127.80	7.62'	6" Cleanout
V3	118.70	9.15'	DI-1	Z39	127.95	7.80'	6" Cleanout
V5	114.42	10.97'	DI-1	Z41	127.80	8.00'	6" Cleanout
V7	109.89	12.54'	DI-1	Z43	127.80	8.38'	48" Basic Manhole
V9	108.39	11.04'	DI-1				
W1	120.28	13.86'	DI-2C 6 ft Throat				
W3	120.03	14.78'	DI-2C 6 ft Throat				

STORM PIPE TABLE						
PIPE #	FROM - TO	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DESCRIPTION
AA2	AA1 - AA5	118.30	117.98	1.00%	31.76 LF	8" HDPE
AA4	AA3 - AA5	118.13	117.98	1.00%	15.00 LF	8" HDPE
AA6	AA5 - AA9	117.88	117.60	1.00%	28.00 LF	10" HDPE
AA8	AA7 - AA9	117.75	117.60	1.00%	15.00 LF	8" HDPE
AA10	AA9 - AA13	117.50	117.22	1.00%	28.00 LF	12" HDPE
AA12	AA11 - AA13	117.37	117.22	1.00%	15.00 LF	8" HDPE
AA14	AA13 - AA17	117.12	116.84	1.00%	28.00 LF	15" HDPE
AA16	AA15 - AA17	116.99	116.84	1.00%	15.00 LF	8" HDPE
AA18	AA17 - AA21	116.74	116.46	1.00%	28.00 LF	15" HDPE
AA20	AA19 - AA21	116.61	116.46	1.00%	15.00 LF	8" HDPE
AA22	AA21 - AA43	116.36	115.99	1.00%	36.91 LF	15" HDPE
AA24	AA23 - AA43	117.18	117.00	1.00%	17.44 LF	8" HDPE
AA26	AA25 - AA29	117.74	117.42	1.00%	31.76 LF	8" HDPE
AA28	AA27 - AA29	117.57	117.42	1.00%	15.00 LF	8" HDPE
AA30	AA29 - AA33	117.32	117.04	1.00%	28.00 LF	10" HDPE
AA32	AA31 - AA33	117.19	117.04	1.00%	15.00 LF	8" HDPE
AA34	AA33 - AA37	116.94	116.66	1.00%	28.00 LF	12" HDPE
AA36	AA35 - AA37	116.81	116.66	1.00%	15.00 LF	8" HDPE
AA38	AA37 - AA41	116.56	116.28	1.00%	28.00 LF	15" HDPE
AA40	AA39 - AA41	116.43	116.28	1.00%	15.00 LF	8" HDPE
AA42	AA41 - AA43	116.18	115.99	1.00%	19.09 LF	15" HDPE
AA44	AA43 - N15	115.89	113.15	2.00%	137.00 LF	24 inch RCP
BB2	BB1 - BB5	116.04	115.72	1.00%	31.76 LF	8" HDPE
BB4	BB3 - BB5	115.87	115.72	1.00%	15.00 LF	8" HDPE
BB6	BB5 - BB9	115.62	115.34	1.00%	28.00 LF	10" HDPE
BB8	BB7 - BB9	115.49	115.34	1.00%	15.00 LF	8" HDPE
BB10	BB9 - BB13	115.24	114.96	1.00%	28.00 LF	12" HDPE
BB12	BB11 - BB13	115.11	114.96	1.00%	15.00 LF	8" HDPE
BB14	BB13 - BB43	114.86	114.49	1.00%	36.91 LF	15" HDPE
BB16	BB15 - BB43	116.18	116.00	1.00%	17.44 LF	8" HDPE
BB18	BB17 - BB21	117.00	116.68	1.00%	31.76 LF	8" HDPE
BB20	BB19 - BB21	116.83	116.68	1.00%	15.00 LF	8" HDPE
BB22	BB21 - BB25	116.58	116.30	1.00%	28.00 LF	10" HDPE
BB24	BB23 - BB25	116.45	116.30	1.00%	15.00 LF	8" HDPE
BB26	BB25 - BB29	116.20	115.92	1.00%	28.00 LF	12" HDPE
BB28	BB27 - BB29	116.07	115.92	1.00%	15.00 LF	8" HDPE
BB30	BB29 - BB33	115.82	115.54	1.00%	28.00 LF	15" HDPE
BB32	BB31 - BB33	115.69	115.54	1.00%	15.00 LF	8" HDPE
BB34	BB33 - BB37	115.44	115.16	1.00%	28.00 LF	15" HDPE
BB36	BB35 - BB37	115.31	115.16	1.00%	15.00 LF	8" HDPE
BB38	BB37 - BB41	115.06	114.78	1.00%	28.00 LF	15" HDPE
BB40	BB39 - BB41	114.93	114.78	1.00%	15.00 LF	8" HDPE



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DESIGNED BY
 M. HETZLER

CHECKED BY
 K. HALPAUS

SCALE
 1" = 250'

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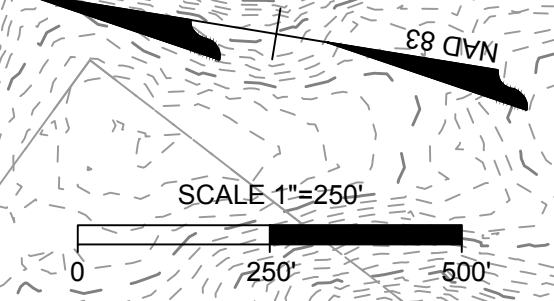
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 NEW KENT COUNTY - VIRGINIA

PHASE II E&S CONTROL AND MINOR HYDROLOGY OVERALL

JOB NO.
58776

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DATE

REVISION DESCRIPTION

DATE

REVISION DESCRIPTION

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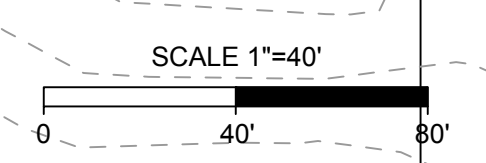
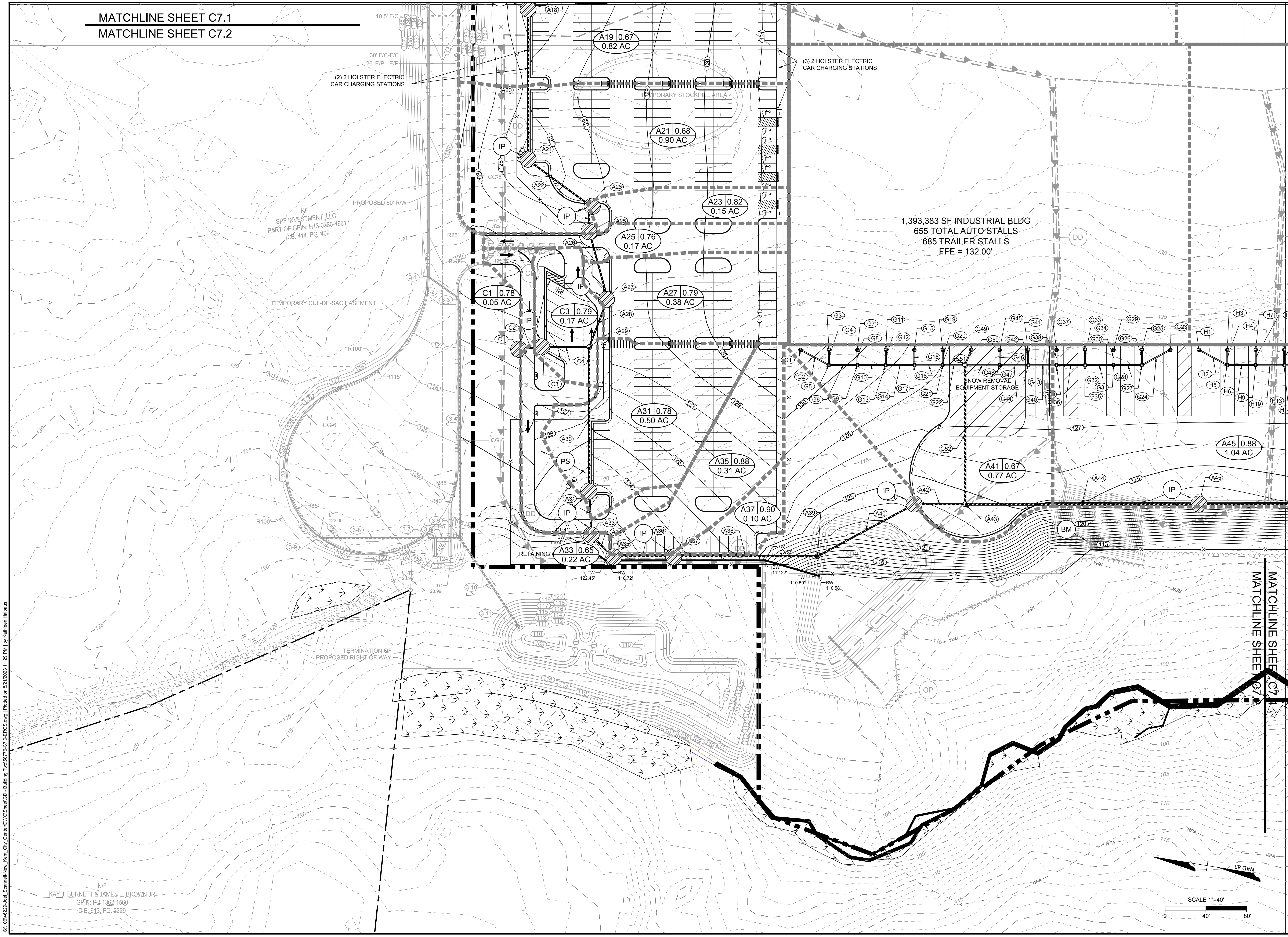
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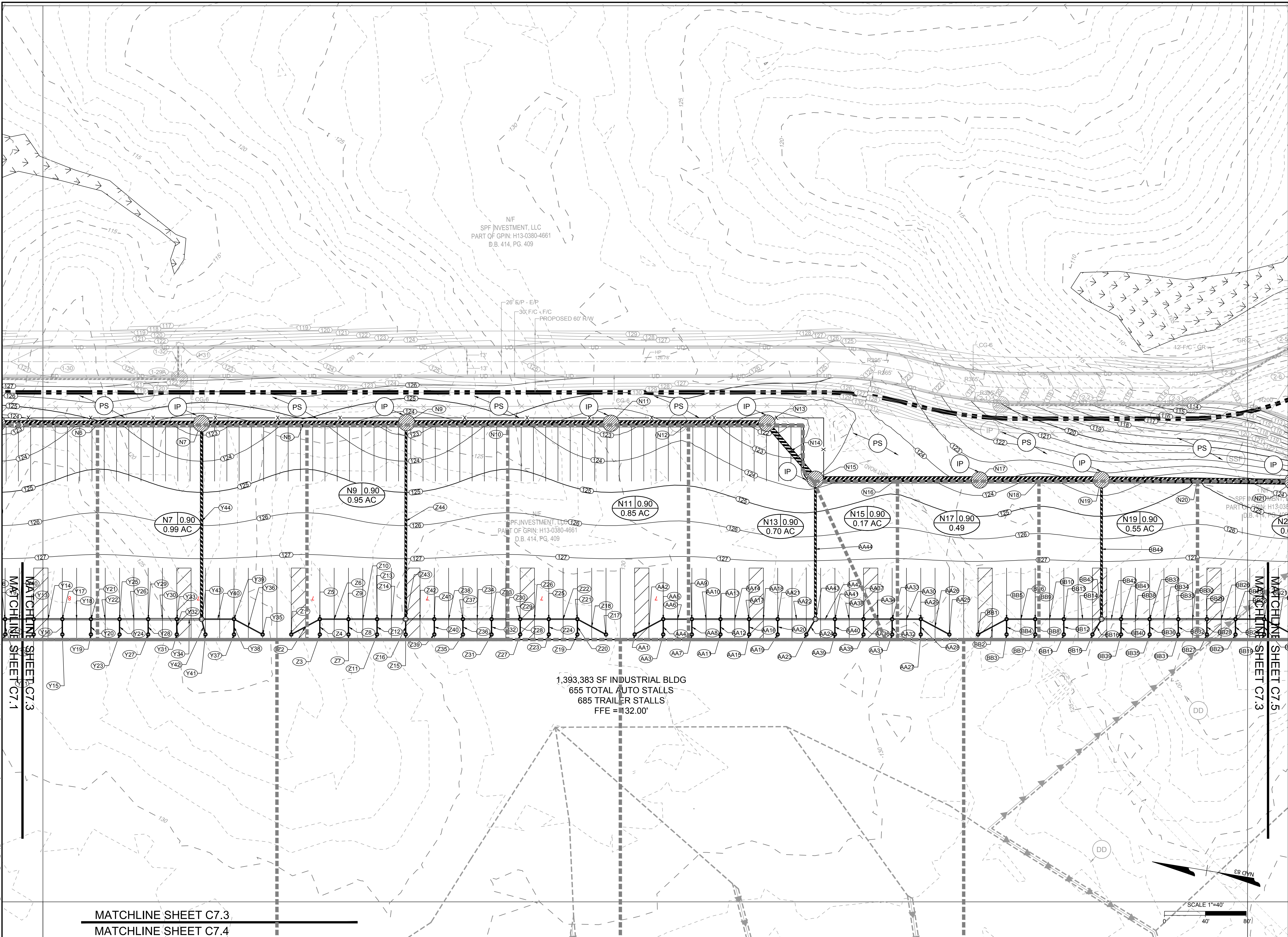
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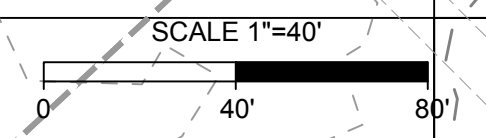
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1,393,383 SF INDUSTRIAL BLDG
655 TOTAL AUTO STALLS
685 TRAILER STALLS
FFE = 132.00'



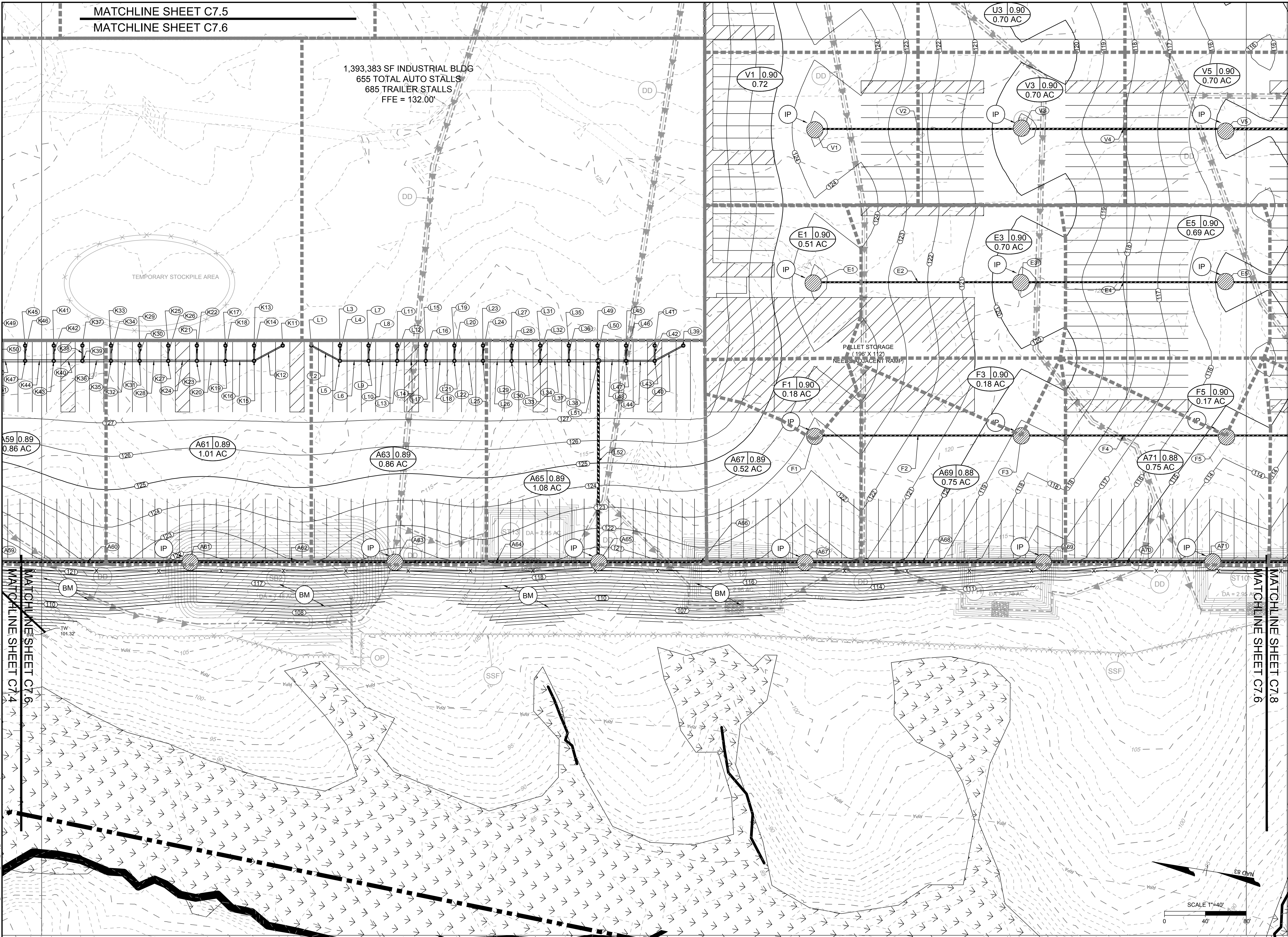
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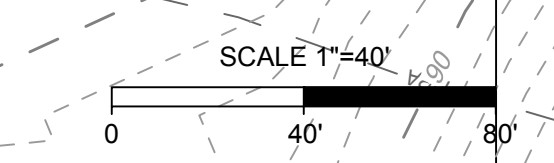
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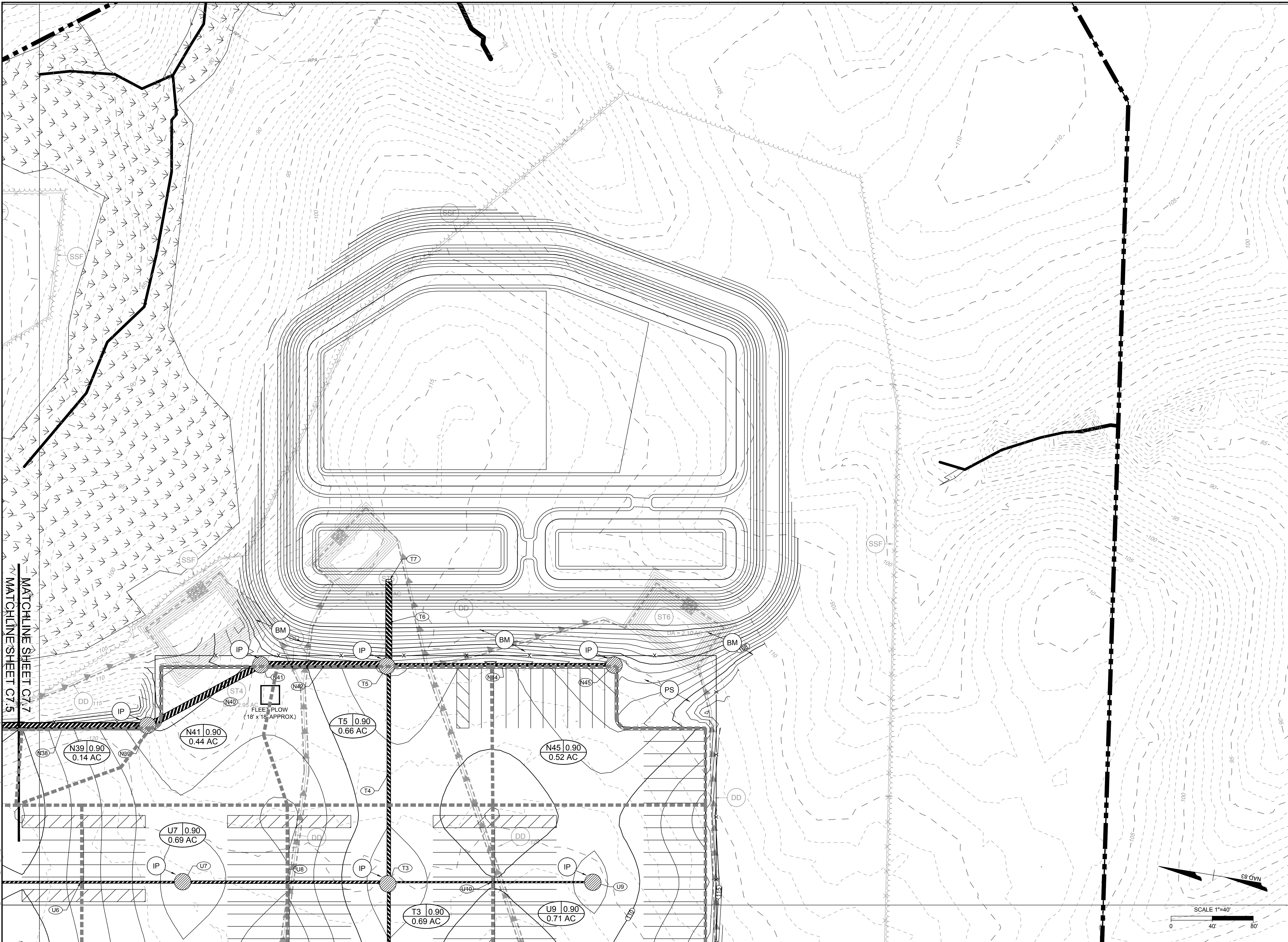
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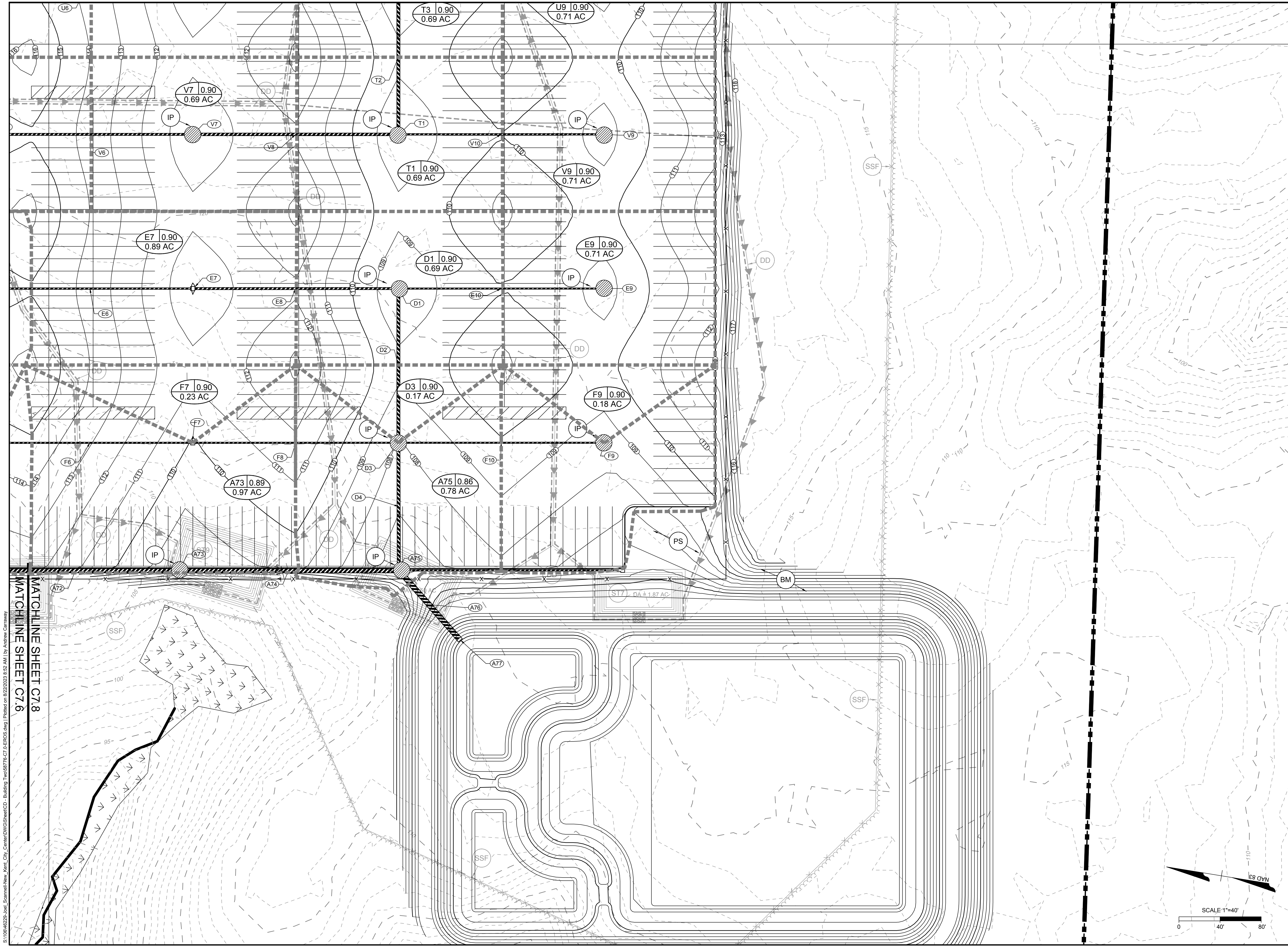
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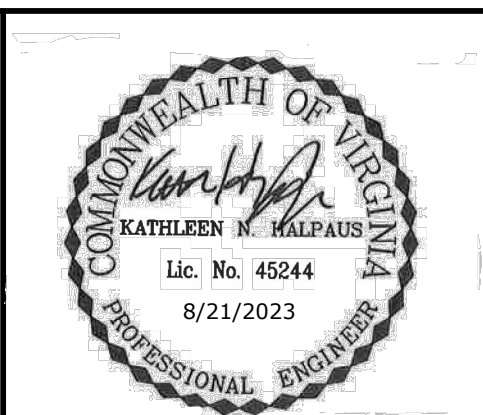
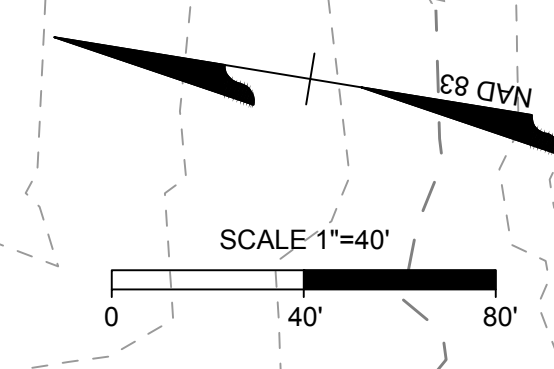
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HYDROLOGY LEGEND

- MAJOR DRAINAGE AREA (dashed line)
- TIME OF CONCENTRATION DRAINAGE ROUTE (solid line with arrows)
- MAJOR DRAINAGE AREA LABEL (circle with 'X-XXI 75 AC')



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DATE: 8/21/2023
 DRAWN BY: J. ALLESSIE
 DESIGNED BY: M. HETZLER
 CHECKED BY: K. HALPAUS

SCALE: 1"=250'

DATE:

REVISION DESCRIPTION

DATE:

DATE:

DATE:

DATE:

DATE:

TIMMONS GROUP

FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA
 EXISTING HYDROLOGY

JOB NO. 58776
 SHEET NO. C8.0

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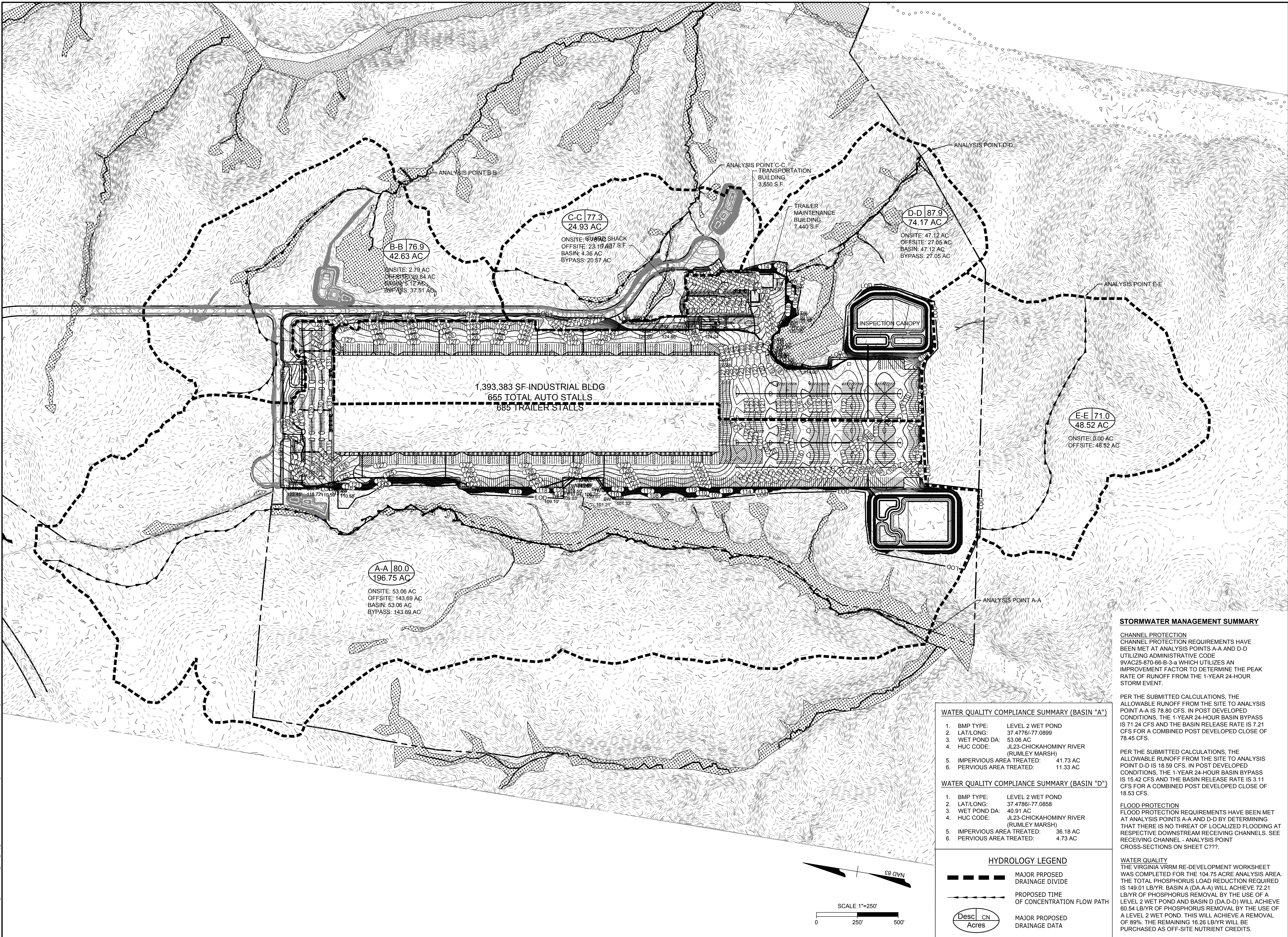


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YOUR VISION ACHIEVED THROUGH OURS.

DATE: 8/21/2023
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 SCALE: 1"=250'

TIMMONS GROUP
 FORGE LOGISTICS BUILDING TWO
 NEW KENT COUNTY - VIRGINIA
 PROPOSED MAJOR HYDROLOGY



B-B 76.9
 42.63 AC
 ONSITE: 2.79 AC
 OFFSITE: 39.84 AC
 BASIN: 3.12 AC
 BYPASS: 37.51 AC

C-C 77.3
 24.93 AC
 ONSITE: 6.66 AC SHACK
 OFFSITE: 23.19 AC ST
 BASIN: 4.36 AC
 BYPASS: 20.57 AC

D-D 87.9
 74.17 AC
 ONSITE: 47.12 AC
 OFFSITE: 27.05 AC
 BASIN: 47.12 AC
 BYPASS: 27.05 AC

E-E 71.0
 48.52 AC
 ONSITE: 0.00 AC
 OFFSITE: 48.52 AC

A-A 80.0
 196.75 AC
 ONSITE: 53.06 AC
 OFFSITE: 143.69 AC
 BASIN: 53.06 AC
 BYPASS: 143.69 AC

1,393,383 SF INDUSTRIAL BLDG
 655 TOTAL AUTO STALLS
 685 TRAILER STALLS

TRAILER MAINTENANCE BUILDING
 7,440 S.F.

INSPECTION CANOPY

WATER QUALITY COMPLIANCE SUMMARY (BASIN "A")

- BMP TYPE: LEVEL 2 WET POND
- LAT/LONG: 37.4776/-77.0899
- WET POND DA: 53.06 AC
- HUC CODE: JL23-CHICKAHOMINY RIVER (RUMBLEY MARSH)
- IMPERVIOUS AREA TREATED: 41.73 AC
- PERVIOUS AREA TREATED: 11.33 AC

WATER QUALITY COMPLIANCE SUMMARY (BASIN "D")

- BMP TYPE: LEVEL 2 WET POND
- LAT/LONG: 37.4786/-77.0858
- WET POND DA: 40.91 AC
- HUC CODE: JL23-CHICKAHOMINY RIVER (RUMBLEY MARSH)
- IMPERVIOUS AREA TREATED: 36.18 AC
- PERVIOUS AREA TREATED: 4.73 AC

STORMWATER MANAGEMENT SUMMARY

CHANNEL PROTECTION
 CHANNEL PROTECTION REQUIREMENTS HAVE BEEN MET AT ANALYSIS POINTS A-A AND D-D UTILIZING ADMINISTRATIVE CODE 9VAC25-870-66-B-3-a WHICH UTILIZES AN IMPROVEMENT FACTOR TO DETERMINE THE PEAK RATE OF RUNOFF FROM THE 1-YEAR 24-HOUR STORM EVENT.

PER THE SUBMITTED CALCULATIONS, THE ALLOWABLE RUNOFF FROM THE SITE TO ANALYSIS POINT A-A IS 78.80 CFS. IN POST DEVELOPED CONDITIONS, THE 1-YEAR 24-HOUR BASIN BYPASS IS 71.24 CFS AND THE BASIN RELEASE RATE IS 7.21 CFS FOR A COMBINED POST DEVELOPED CLOSE OF 78.45 CFS.

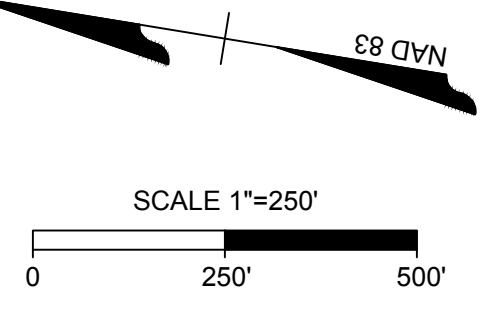
PER THE SUBMITTED CALCULATIONS, THE ALLOWABLE RUNOFF FROM THE SITE TO ANALYSIS POINT D-D IS 18.59 CFS. IN POST DEVELOPED CONDITIONS, THE 1-YEAR 24-HOUR BASIN BYPASS IS 15.42 CFS AND THE BASIN RELEASE RATE IS 3.11 CFS FOR A COMBINED POST DEVELOPED CLOSE OF 18.53 CFS.

FLOOD PROTECTION
 FLOOD PROTECTION REQUIREMENTS HAVE BEEN MET AT ANALYSIS POINTS A-A AND D-D BY DETERMINING THAT THERE IS NO THREAT OF LOCALIZED FLOODING AT RESPECTIVE DOWNSTREAM RECEIVING CHANNELS. SEE RECEIVING CHANNEL - ANALYSIS POINT CROSS-SECTIONS ON SHEET C???

WATER QUALITY
 THE VIRGINIA VRRM RE-DEVELOPMENT WORKSHEET WAS COMPLETED FOR THE 104.75 ACRE ANALYSIS AREA. THE TOTAL PHOSPHORUS LOAD REDUCTION REQUIRED IS 149.01 LB/YR. BASIN A (DA-A-A) WILL ACHIEVE 72.21 LB/YR OF PHOSPHORUS REMOVAL BY THE USE OF A LEVEL 2 WET POND AND BASIN D (DA-D-D) WILL ACHIEVE 60.54 LB/YR OF PHOSPHORUS REMOVAL BY THE USE OF A LEVEL 2 WET POND. THIS WILL ACHIEVE A REMOVAL OF 89%. THE REMAINING 16.26 LB/YR WILL BE PURCHASED AS OFF-SITE NUTRIENT CREDITS.

HYDROLOGY LEGEND

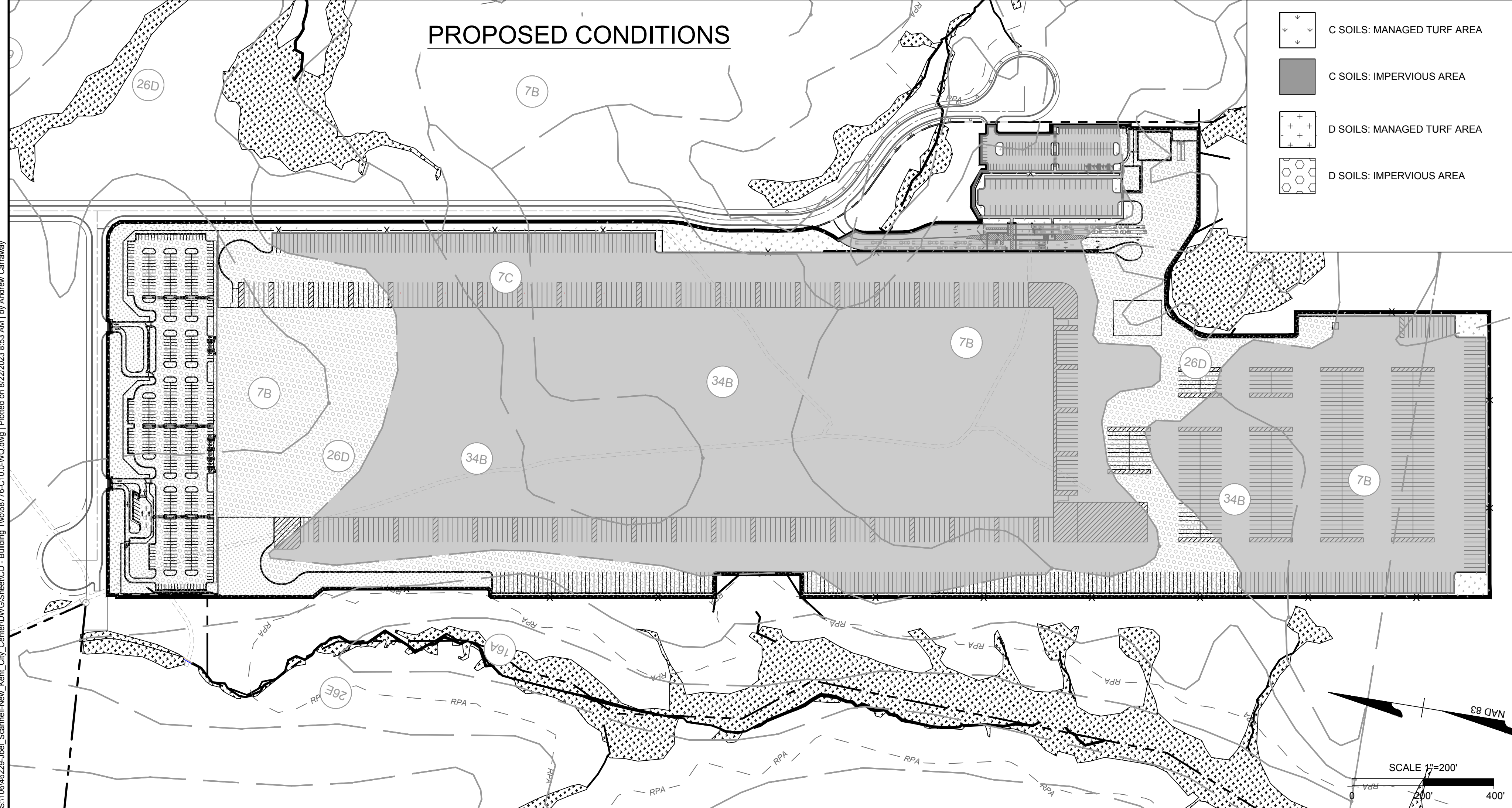
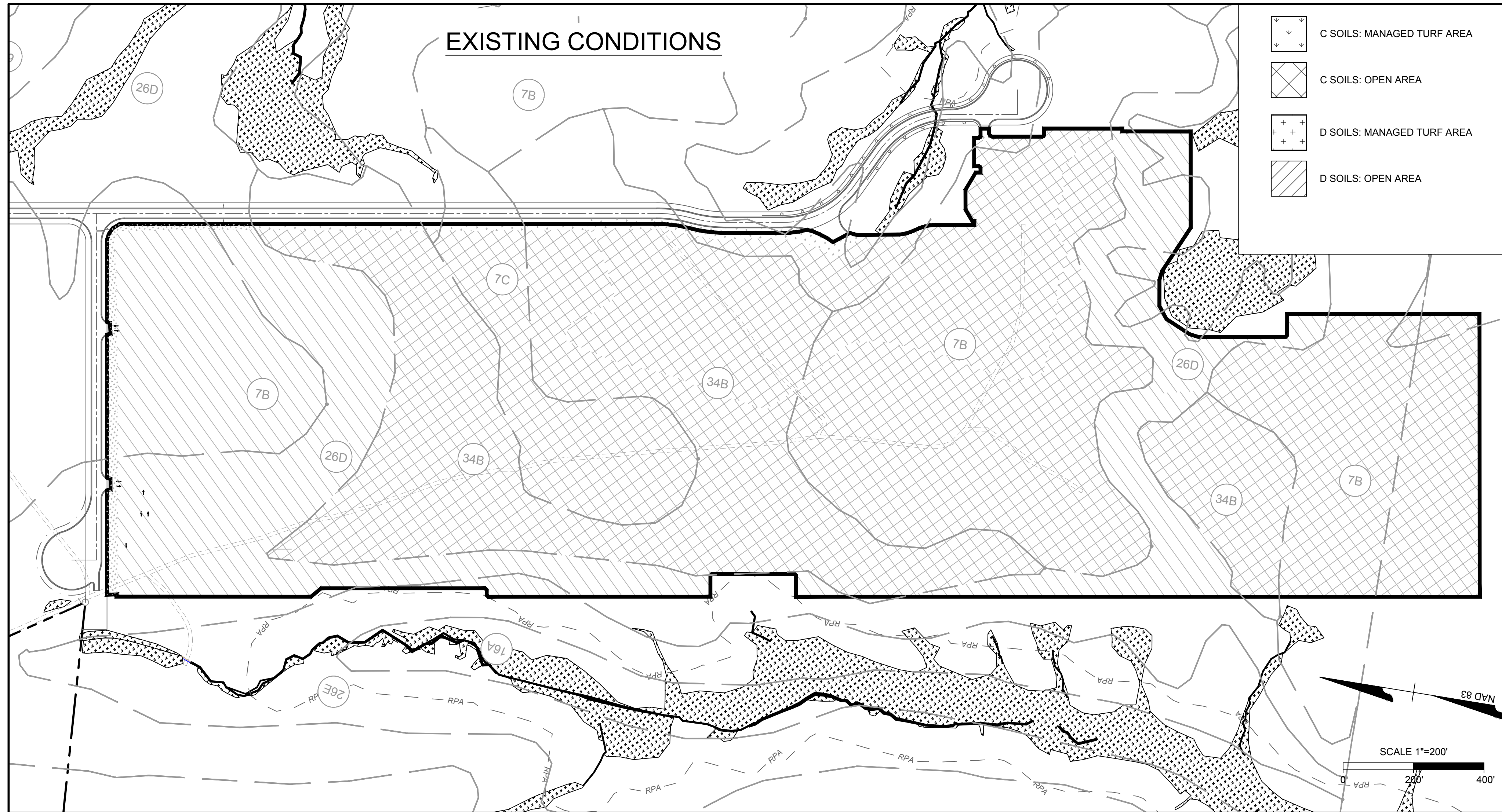
	MAJOR PROPOSED DRAINAGE DIVIDE
	PROPOSED TIME OF CONCENTRATION FLOW PATH
	MAJOR PROPOSED DRAINAGE DATA



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 SHEET NO. C9.0



- C SOILS: MANAGED TURF AREA
- C SOILS: OPEN AREA
- D SOILS: MANAGED TURF AREA
- D SOILS: OPEN AREA

- C SOILS: MANAGED TURF AREA
- C SOILS: IMPERVIOUS AREA
- D SOILS: MANAGED TURF AREA
- D SOILS: IMPERVIOUS AREA

Map unit symbol	Map unit name	Rating
6B	Caroline loam, 2 to 6 percent slopes	C
7B	Caroline-Emporia complex, 2 to 6 percent slopes	C
7C	Caroline-Emporia complex, 6 to 10 percent slopes	C
11B	Craven-Caroline complex, 2 to 6 percent slopes	D
12B	Craven-Uchen complex, 2 to 6 percent slopes	D
16A	Johnston mucky loam, 0 to 2 percent slopes, frequently flooded	A/D
17B	Kempville fine sandy loam, 2 to 6 percent slopes	B
18B	Kempville gravelly fine sandy loam, 2 to 6 percent slopes	B
19B	Kempville-Emporia complex, 2 to 6 percent slopes	B
20B	Kempville-Suffolk complex, 2 to 6 percent slopes	B
26D	Nevaro-Remlik complex, 6 to 15 percent slopes	D
26E	Nevaro-Remlik complex, 15 to 25 percent slopes	D
26F	Nevaro-Remlik complex, 25 to 60 percent slopes	D
33A	Slagle fine sandy loam, 0 to 2 percent slopes	C
34B	Slagle-Emporia complex, 2 to 6 percent slopes	C

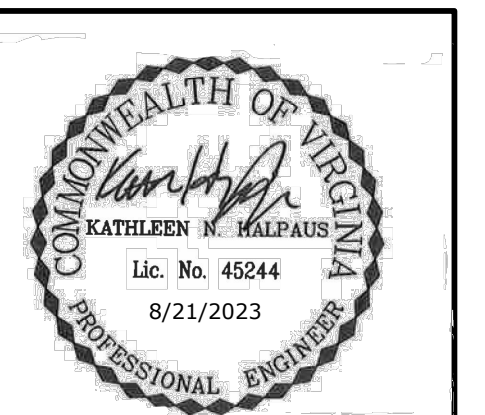
SOILS LEGEND

SOIL DIVIDE

14A SOIL MAP UNIT SYMBOL

NOTE:
THE SOURCE OF THE SOILS MAP AND SOIL SERIES DESCRIPTIONS IS FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.

MAP UNIT NAMES:
3B: APPLING-URBAN LAND COMPLEX
3C: APPLING-URBAN LAND COMPLEX



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REVISION DESCRIPTION

DATE	DESCRIPTION

Project Name: **New Kent City Center - Building 2**
Date: **8/21/2023**

CLEAR ALL
(Ctrl+Shift+A)

data input cells
constant values
calculation cells
final results

Site Information

Post-Development Project (Treatment Volume and Loads)

Land Cover (acres)	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) – undisturbed, protected forest/open space or reforested					0.00
Managed Turf (acres) – disturbed, graded (for yards or other turf) to be			14.31	7.00	21.31
Impervious Cover (acres)			62.29	21.15	83.44
					104.75

Constants

Annual Rainfall (inches)	43
Target Rainfall Event (inches)	1.00
Total Phosphorus (TP) EMC (mg/L)	0.26
Total Nitrogen (TN) EMC (mg/L)	1.86
Target TP Load (lb/acre/yr)	0.41
Pj (unitless correction factor)	0.90

Runoff Coefficients (Rv)

	A Soils	B Soils	C Soils	D Soils
Forest/Open Space	0.02	0.03	0.04	0.05
Managed Turf	0.15	0.20	0.22	0.25
Impervious Cover	0.95	0.95	0.95	0.95

Post-Development Requirement for Site Area

TP Load Reduction Required (lb/yr) 149.01

LAND COVER SUMMARY -- POST DEVELOPMENT

Land Cover Summary		Treatment Volume and Nutrient Loads	
Forest/Open Space Cover (acres)	0.00	Treatment Volume (acre-ft)	7.0139
Weighted Rv (forest)	0.00	Treatment Volume (cubic feet)	305,523
% Forest	0%	TP Load (lb/yr)	191.96
Managed Turf Cover (acres)	21.31	TN Load (lb/yr) (Informational Purposes Only)	1,373.25
Weighted Rv (turf)	0.23		
% Managed Turf	20%		
Impervious Cover (acres)	83.44		
Rv (impervious)	0.95		
% Impervious	80%		
Site Area (acres)	104.75		
Site Rv	0.80		

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TIMMONS GROUP

FORGE LOGISTICS BUILDING TWO
NEW KENT COUNTY - VIRGINIA
WATER QUALITY ANALYSIS PLAN

JOB NO. 58776
SHEET NO. C10.0

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