

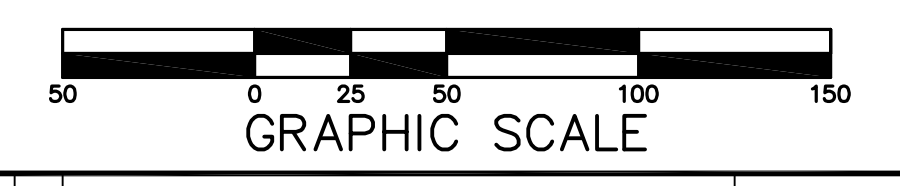
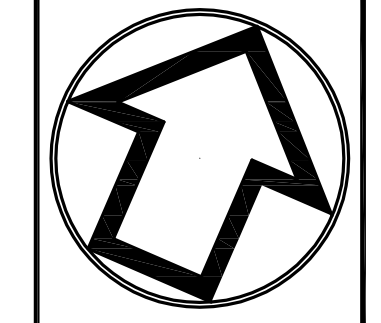
KEY MAP 1"=1000'

LEGEND

- LIMIT OF DISTURBANCE
- NPDES PERMIT BOUNDARY
- BASIN/BMP SHED BOUNDARY
- POINT OF INFLUENCE
- STORMWATER TEST PIT
- AMENDED SOILS/ERNMX-178 (OR EQUAL)
- ROOFTOP DISCONNECTION
- PROTECT EXISTING TREES

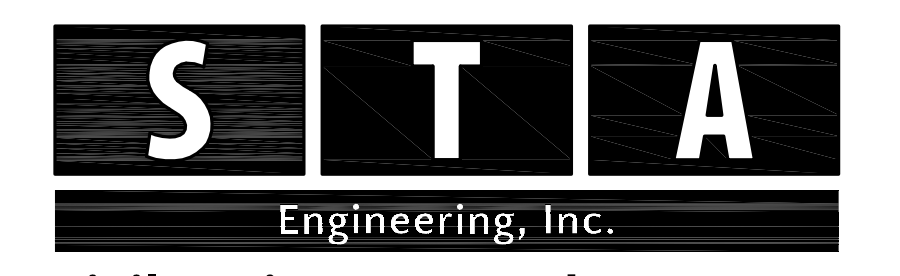
LEGEND

- PROPOSED WATER SERVICE
- PROPOSED SANITARY LATERAL
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED TREE ROW
- PROPOSED CURB
- PROPOSED EDGE OF ROAD
- PROPOSED EDGE OF ROAD
- PROPOSED EASEMENT
- PROPOSED RIGHT-OF-WAY
- PROPOSED CENTERLINE
- PROPOSED CONCRETE WALKWAY
- PROPOSED CONTOUR (MAJOR)
- PROPOSED CONTOUR (MINOR)



No.	INT.	REVISIONS	DATE
		S.T.A. PLAN ORIGINATION DATE	DEC. 17, 2018

PCSM PLAN
OF THE
GLASGOW TRACT
PREPARED FOR
GLASGOW, INC.
SITE SITUATE IN
UPPER MERION TOWNSHIP
MONTGOMERY COUNTY, PENNSYLVANIA

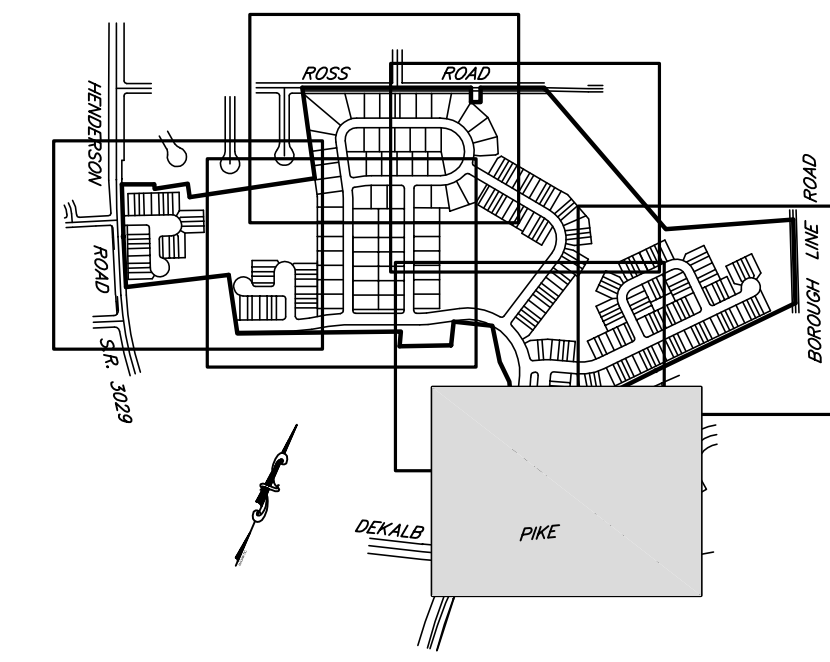


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PLAN SCALE	DRAFTED BY	PROJECT MANAGER	PLAN SHEET NUMBER
HORIZONTAL:	A.C.H.	S.A.R.	
1"=50'	PROJECT NUMBER	DRAWING FILE NUMBER	51 OF 90
	5674	5674PCSM	



S.R. 0202



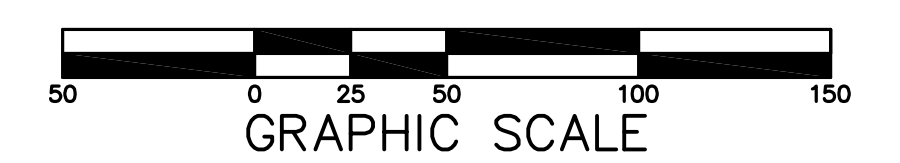
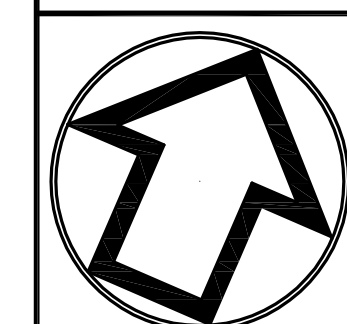
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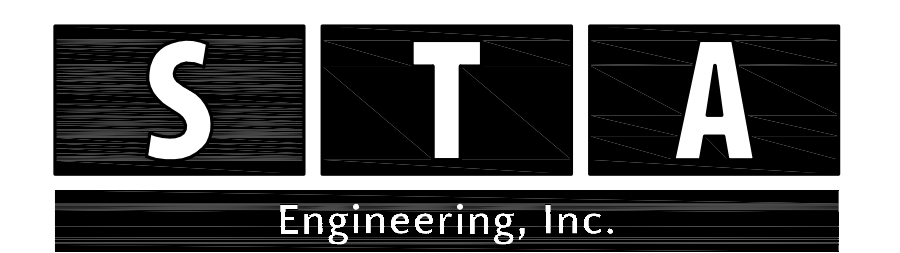
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POST CONSTRUCTION STORMWATER MANAGEMENT OPERATION AND MAINTENANCE NOTES

SITE SPECIFIC CONSTRUCTION SEQUENCE

1. BMP DESCRIPTIONS:

The primary BMP's proposed for the development site consists of the following:
 Non-Structural BMP's
 1. BMP 5.4.1 - Protect Sensitive/Special Value Features - Existing Pond, Waters and Wetlands will remain
 2. BMP 5.4.3 - Protect/Utilize Natural Flow Pathways in Overall Stormwater Planning and Design - On-site stormwater discharges into the existing pond or into the conveyance channel that conveys stormwater to the receiving watercourse
 3. BMP 5.6.3 - Part 1 Protect Existing Trees
 4. BMP 5.8.1 - Rooftop Disconnection

Structural BMP's
 5. BMP 6.4.2/6.4.5 - Infiltration/Bio-retention Basins D, E, G, H, K, L, P
 6. BMP 6.4.2/6.4.5 - Infiltration/Bio-retention BMP's F, J, N, R, S
 7. 10. BMP 6.7.2/5.6.3 Part 2 - Landscape Restoration
 8. BMP 6.7.3 - Soils Amendment & Restoration

2. GENERAL BMP OPERATION, MAINTENANCE, INSPECTION AND CERTIFICATION NOTES:

At such time that the site is stabilized and the temporary during construction erosion and sediment controls are removed, the permanent non-structural and structural BMP's will be installed and functioning. The structural BMP's are intended to be permanent facilities that mitigate peak flows and address minimal volume control in addition to promoting water quality.

General Maintenance - The stormwater management BMP's shall be owned and maintained by the established Homeowner's Association (HOA) in perpetuity. The HOA shall conduct maintenance on a short-term and long-term schedule in accordance with the maintenance procedures outlined in this narrative and on the PCSM plans. Until such time that the HOA is fully established and operational, the developer and/or permittee shall perform the required maintenance of the stormwater management BMP's. In addition to the procedures outlined in the narrative and on the plans, a member of the HOA Board of Directors or HOA Management Company shall be responsible to make a visual inspection of the BMP facilities after all major storm events to verify their integrity and to note any damage requiring corrective action. Furthermore, said party shall be responsible to perform an annual inspection of the facilities and generate a report to document the condition of the facilities. Copies of the annual report shall be submitted to the HOA for review and, where required, corrective action. If significant repairs are required, the Township Engineer shall be consulted prior to repair. The Municipality shall have the right, but not the duty, to inspect the stormwater management facilities, and if the HOA fails to do so, perform necessary maintenance.

Critical Stages/Oversight - The permittee shall provide engineering construction oversight during installation of all aspects of the stormwater management facility. A licensed professional engineer knowledgeable in the design and construction of stormwater BMP's, preferably the design engineer, shall conduct the oversight. Refer to the PCSM plans for a complete tabulation of the designated BMP's requiring construction oversight.

Final Certification - the permittee shall include with the Notice of Termination "Record Drawings" with a final certification statement from a licensed professional, which reads as follows:
 "I, (name), do hereby certify pursuant to the penalties of 18, Pa.c.s.a. § 4904 to the best of my knowledge, information and belief, that the accompanying record drawings accurately reflect the as-built conditions, are true and correct, and are in conformance with Chapter 102 of the Rules and Regulations of the Department of Environmental Protection and that the project site was constructed in accordance with the approved PCSM Plan, all approved plan changes and accepted construction practices."

The permittee shall retain a copy of the record drawings as a part of the approved PCSM Plan and shall provide a copy of the record drawings as a part of the approved PCSM Plan to the person identified in this section as being responsible for the long-term operation and maintenance of the PCSM BMP's.

Upon permanent stabilization of the earth disturbance activity under § 102.22(a)(2) (relating to permanent stabilization), and installation of BMP's in accordance with an approved plan prepared and implemented in accordance with § 102.4 and 102.8 (relating to erosion and sediment control requirements, and PCSM requirements), the permittee or co-permittee shall submit a Notice of Termination (NOT) to the Department or Chester County Conservation District. Prior to accepting the NOT, the Department and/or Conservation District staff will perform a final inspection and approve or deny the NOT.

C. SPECIFIC BMP OPERATION AND MAINTENANCE NOTES:

Short Term:

Inspect BMP's after major storm events for damage and/or erosion activity, paying close attention to the embankments, spillway, and berm. Repair erosion with appropriate measures immediately.

Inspect BMP plantings installed from containers on a monthly basis during the growing season for the first two years to evaluate plant establishment and mortality - replace dead plants with same or like plants able to establish in the cultural conditions present. If necessary, replace plants with a different species suitable to any microclimatic effects that might develop.

Long Term:

Until the permittee or co-permittee has received written approval of a Notice of Termination, the permittee or co-permittee will remain responsible for compliance with the permit terms and conditions including long-term operation and maintenance of all PCSM BMP's on the project site and responsibility for violations occurring on the project site.

The permittee or co-permittee shall be responsible for long-term operation and maintenance of PCSM BMP's unless a different person is identified in the Notice of Termination and has agreed to long-term operation and maintenance of PCSM BMP's.

For any property containing a PCSM BMP, the permittee or co-permittee shall record an instrument with the recorder of deeds, which will assure disclosure of the PCSM BMP and the related obligations in the ordinary course of a title search of the subject property. The recorded instrument must identify the PCSM BMP, provide for necessary access related to long-term operation and maintenance for PCSM BMP's and provide notice that the responsibility for long-term operation and maintenance of the PCSM BMP is a covenant that runs with the land that is binding upon and enforceable by subsequent grantees, and provide proof of filing with the Notice of Termination under § 102.70(a)(5) (relating to permit termination).

The person or entity responsible for performing long-term operation and maintenance may enter into an agreement with another person including a conservation district, non-profit organization, municipality, authority, private corporation or other person to transfer the responsibility for PCSM BMP's or to perform long-term operation and maintenance and provide notice thereof to the department.

A permittee or co-permittee that fails to transfer long-term operation and maintenance of the PCSM BMP or otherwise fails to comply with this requirement shall remain jointly and severally responsible with the landowner for long-term operation and maintenance of the PCSM BMP's located on the property.

A written report must be completed to document each inspection and all BMP repair and maintenance activities.

The PCSM Plan, inspection reports and monitoring records shall be available for review and inspection by the Department or the Conservation District.

Specific BMP Construction Sequence and Long-Term Maintenance Notes:

GENERAL:

- Catch basins and inlets should be inspected and cleaned at least two times per year and after runoff events.
- Vehicles should not be parked or driven over infiltration BMP's.
- Structural BMP's should be inspected for accumulation of sediment, damage to outlet structures, signs of contamination or spills, and berm stability.

INFILTRATION/BIO-RETENTION BMP'S:

APPLIES TO BASINS D, E, G, H, K, L, P AND BMP'S F, J, N, R, S

Construction Sequence-Critical Stage:

- Unless otherwise infeasible, construction of the permanent basin should be scheduled to allow for installation of the specified seed mixes as soon as permanent basin construction is complete between early April to mid-June to provide the plants with a full growing season to build strong root reserves for winter hardiness. In no case shall seed be installed prior to April 1 or later than September 15. If necessary, install annual rye cover crop for over-wintering, followed by site preparation and application of the specified seed mixes during the following spring.
- A licensed professional engineer (or authorized representative) knowledgeable in the design and construction of stormwater BMP's, preferably the design engineer, shall conduct the oversight during installation.
- Insure that all areas tributary to the basin are stabilized prior to basin construction.
- Prepare site for excavation and/or embankment construction. All existing vegetation should remain if feasible and should only be removed for construction. Care should be taken to prevent compaction of the basin bottom. If excavation is required, clear the area to be excavated of all vegetation. Remove tree roots, rocks and boulders only in excavation area.
- Excavate bottom of basin to design elevation.
- Install surrounding embankments and inlet and outlet control structures. Install u-drain in accordance with the detail and provide solid cap within the inlet structure.
- Grade subsoil in bottom of basin being careful not to compact the basin bottom area. If the area has been subject to compaction or sedimentation during construction, infiltration testing may be required during/prior to the construction of the BMP to verify the volume credits taken by design. If unfavorable conditions are encountered during installation (i.e. groundwater and/or bedrock, etc.), the engineer should be consulted and the location of the proposed facility should be re-evaluated.
- Install soil mix to required design depth and fine grade, being careful not to compact. Refer to Basin and BMP soil mix specifications.
- Prepare for seeding by eliminating any weed growth prior to seed installation using an appropriate herbicide to control undesirable vegetation. For optimal seed establishment, soil ph shall be between 5.5 and 6.5.
- Apply seed by carefully proportioning seed for the entire area. Broadcast seed in two separate applications by applying seed at half the suggested rate for each application to ensure even and adequate coverage. After the full rate of seeding has been achieved, follow by rolling or tracking seed into the top 1/4 inch of soil to achieve good seed to soil contact - do not roll or track the seed when soil is wet.
- Cover seeded area with a light layer of salt hay, threshed straw or pine needles or apply erosion control matting over 3:1 slopes.
- Plant and mulch according to specifications on the landscape plan. Install any anti-grazing measures, if necessary.

Maintenance:

- Maintenance is necessary to ensure proper function of the bio-retention/infiltration basin and should take place on a quarterly basis. When infiltration basins are first made functional they should be inspected monthly and after any large storm event. All inspections should include investigation for potential sources of contamination.
- All basin structures expected to receive and/or trap debris and sediment should be inspected for clogging and excessive debris and sediment accumulation at least four times per year, as well as after every storm greater than 1 inch.
- Sediment removal should be conducted when the basin is completely dry. Sediment should be disposed of properly and once sediment is removed, disturbed areas need to be immediately stabilized and re-vegetated.
- During the establishment of vegetation with the basin area, the solid cap should remain off. Once vegetation is fully established, install solid cap and perform routine inspections and maintenance as necessary. Solid cap is to remain in place until such time that it becomes necessary to drain the facility. The Township and/or the Conservation District shall be consulted prior to opening the cap. If slow drainage persists and the cap has to be opened on a regular basis, a professional engineer should evaluate the facility as required to determine an appropriate course of action. This includes, but is not limited to, replacement of the facility.

LANDSCAPE RESTORATION:

Construction Sequence:

- All plant material to be installed in accordance with the planting practices stated in Chapter 3 of "Tree Maintenance" by P.P. Prune (5th or most recent edition).
- Take extreme care in handling and installing all plants to prevent damage to bark, branches, and root balls.
- All planting areas shall be free from weeds prior to the beginning of planting operation. Contact herbicide sprays should only be used as required and all manufactures specifications followed.
- Prepare tree and shrub planting pits with proper size excavations and backfill during planting with prepared backfill mixture. Backfill in layers, water thoroughly to allow settlement and remove air pockets.
- Plant root balls at the same relation to grade as previously grown at the nursery. High or low root balls shall not be accepted.
- Backfill planting soil of 50% topsoil and 50% peat moss shall be mixed with existing soil at a rate of 1/3 planting soil and 2/3 existing soil.
- Fertilize all plants with appropriate starter fertilizer at time of planting.
- All plantings must be thoroughly watered within the first 12 hours of installation. The contractor is responsible for providing water for this operation.
- Mulch all plantings immediately after planting operations are completed with a three-inch (3") layer of finely shredded bark mulch or locore root. The mulch shall be aged a minimum of 6 months. A granular pre-emergent weed control shall be spread prior to mulching. The limit of this mulch for deciduous trees and single evergreen trees shall be the area of the pit excavation. For all evergreen tree and shrub clusters, a fully mulched bed shall be created. Mulch planting beds entirely around and between all plants for a fully mulched bed. Depth shall be cleanly cut and tapered to match surrounding lawn grades.
- All shrubs are to be mulched in groups. No singularly mulched shrubs will be accepted, unless a singular specimen shrub in lawn has been shown on the drawings. A continuous mulch bed shall be provided for each grouping or cluster of shrubs to the extent of their collective branch drip line.

Maintenance:

- Application of a carefully selected herbicide around the protective tree shelters/tubes may be necessary, and reinforced by selective cutting/manual removal, if necessary for the initial 2 to 3 years of growth and may be necessary for up to 5 years until tree growth and tree canopy begins to form, naturally inhibiting weed growth (once shading is adequate, growth of invasives and other weeds will be naturally prevented, and the trees becomes self-maintaining).
- Review of the new trees should be undertaken intermittently to determine if replacement trees should be provided (some modest rate of planting failure is usual).
- Landscape restoration areas planted with a proper cover crop can be expected to require annual mowing to control invasive species.

SOIL AMENDMENT AND RESTORATION:

Construction sequence:

- A licensed professional engineer (or authorized representative) knowledgeable in the design and construction of stormwater bmp's, preferably the design engineer, shall conduct the oversight of installation of amended soils.
- All on-lot construction and excavation should be completed and stabilized prior to commencement of soil amendment. If upslope areas are not stabilized, install silt fence upslope of soil amendment areas until upslope lawn is established.
- Rototill or rip subgrade to ensure that the subsoil is in a loose, friable condition. Leave soil in a loose state. Remove rocks.
- Distribute the compost/topsoil mix evenly over the prepared subsoil while minimizing soil compaction. Spread the nutrients. Rototill again. Rake, seed and stabilize.

Maintenance:

- Maintain as lawn area with routine mowing and weed control maintenance.
- The soil restoration process may need to be repeated over time due to compaction by use and/or settling.

SPECIAL GEOLOGIC FORMATIONS OR SOIL CONDITIONS & POTENTIAL POLLUTION:

To the best of our knowledge, no geologic formations or soil conditions having the potential to cause pollution to surface waters exist at the site.

THERMAL IMPACT STATEMENT:

Stormwater runoff from the proposed impervious surfaces will be directed into numerous bio-retention and infiltration stormwater management facilities before leaving the site in order to minimize the potential for thermal impacts upon the receiving watercourses. Stormwater runoff will be treated and filtered in the facility before entering the stormwater conveyance system or discharged through vegetated areas where the runoff has additional time to cool before reaching the surface waters.

NPDES POST CONSTRUCTION STORMWATER MANAGEMENT PLANNING AND DESIGN:

- Preserve the integrity of stream channels and maintain and protect the physical, biological and chemical qualities of the receiving stream.** The proposed infiltration and bio-retention facilities will promote the biological uptake of stormwater pollutants before being discharged from the site and entering the receiving stream.
- Prevent an increase in the rate of stormwater runoff.** A series of basins placed throughout the site are used to manage and meet the peak flow requirements. Post-development peak flow rates are designed to be less than the pre-development peak flow rates that leave the site at all discharge analysis points.
- Minimize any increase in stormwater runoff volume.** Numerous post-construction non-structural and structural stormwater BMP's are proposed to reduce the 2-year increase in the volume of stormwater runoff to the pre-development runoff volume. Non-structural and structural BMP's will help reduce stormwater volume and promote improvements in water quality.
- Minimize impervious areas.** Street imperviousness is reduced by reducing street widths from that which is required by ordinance. Ninety-five percent (95%) of the proposed impervious area drains to a Post-Construction Stormwater Management BMP.
- Maximize the protection of existing drainage features and existing vegetation.** No new stormwater discharge points are proposed as part of this land development. Post-development flows leaving the site are less than the calculated pre-development flows from the site.
- Minimize land clearing and grading.** Site grading exists primarily in the areas proposed for construction and a portion of the site will remain undisturbed. A portion of the existing impervious areas will be removed and restored to a vegetated area.
- Minimize Soil Compaction.** Soil compaction is minimized to the greatest extent possible.

- Utilize other structural or nonstructural BMP's that prevent or minimize changes in stormwater runoff.** In addition to the infiltration and bio-retention facilities that manage peak runoff, promote water quality and manage runoff volume; landscape restoration, soil amendment, preservation of existing trees, removal of existing unnecessary impervious surfaces and directing surface runoff into vegetated areas all work together to prevent or minimize changes in stormwater runoff.

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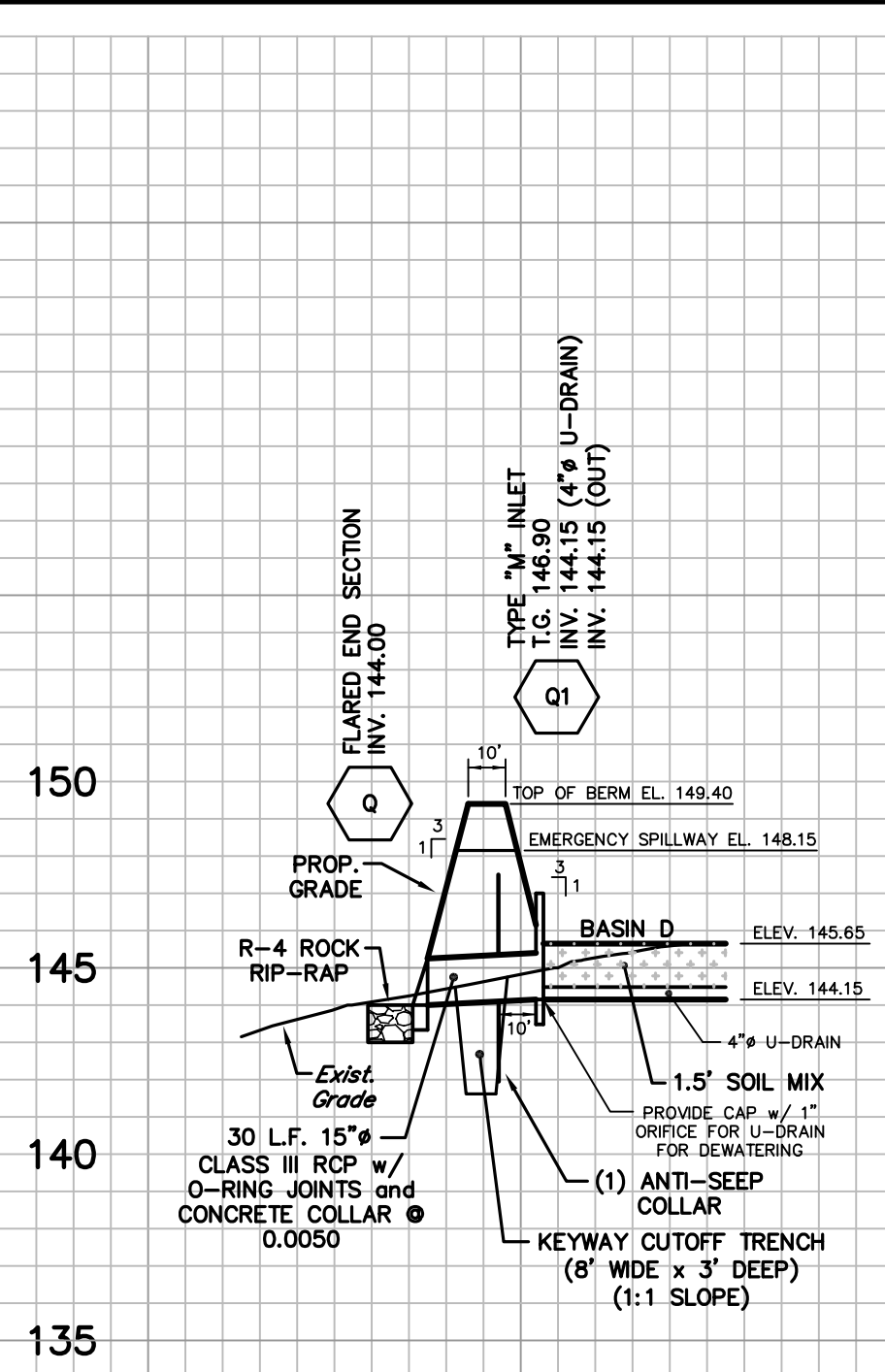
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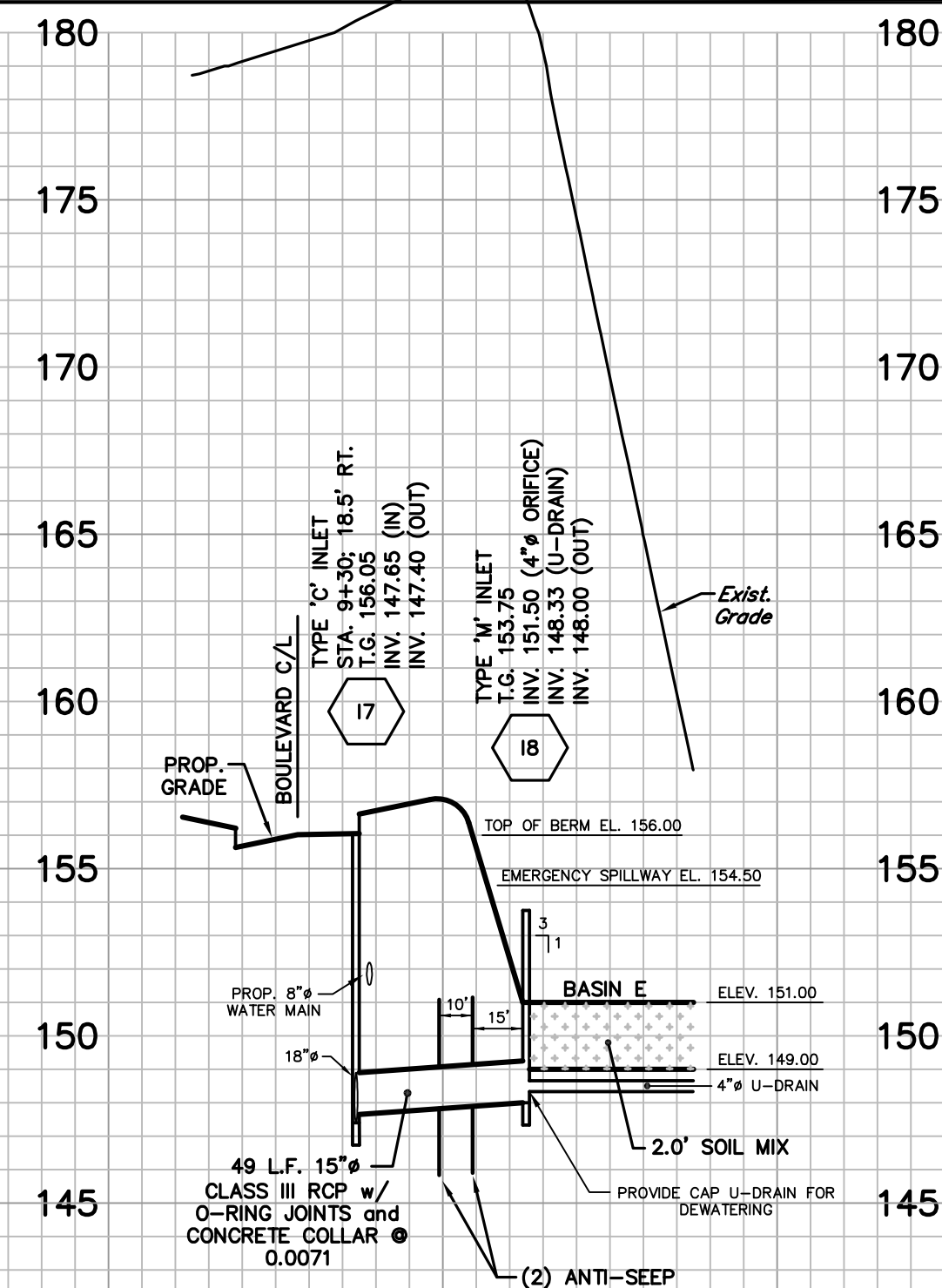
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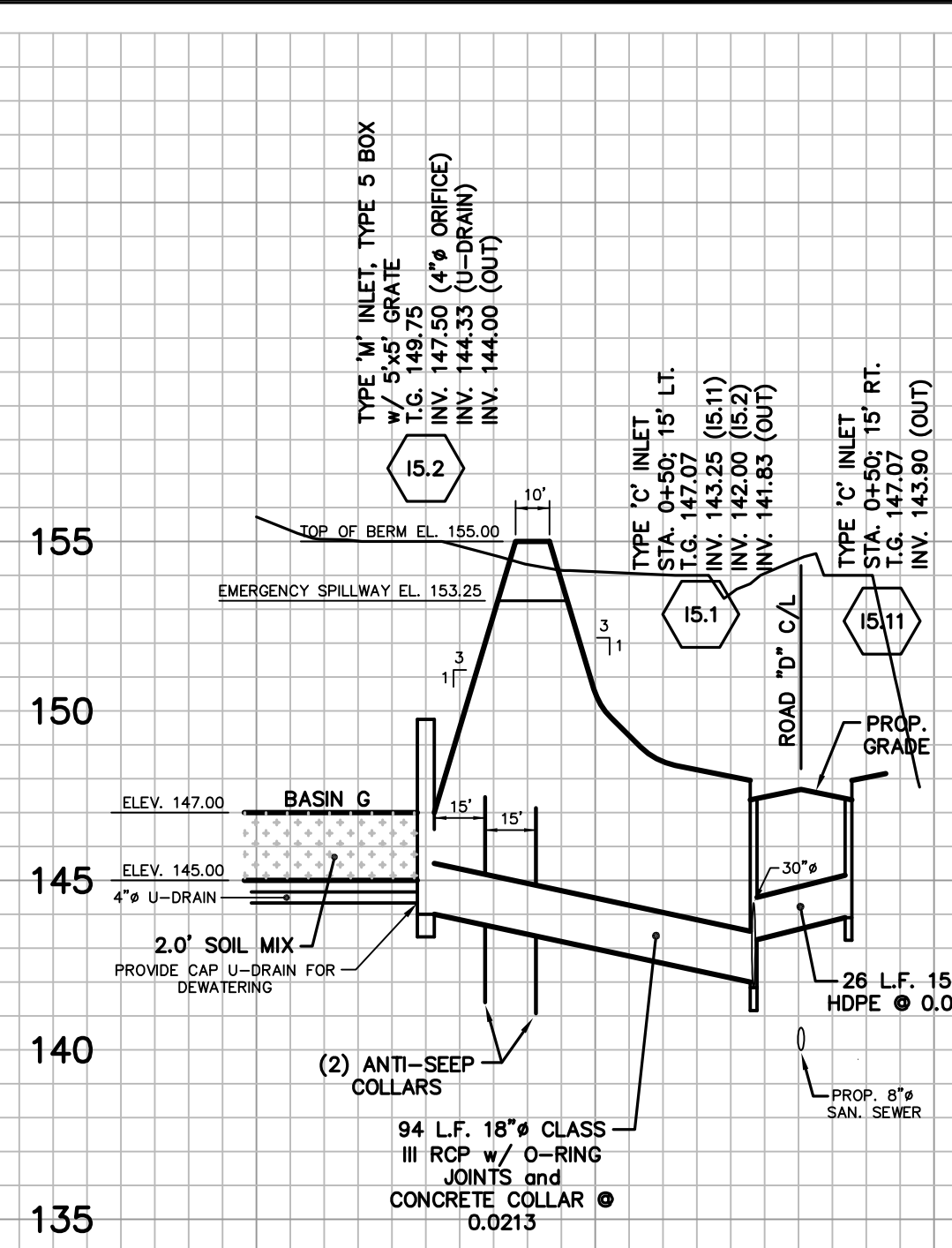
BASIN D OUTFALL

143.7	143.9	144.3	144.8	145.3	145.6
0	+25	+50	+75	1	



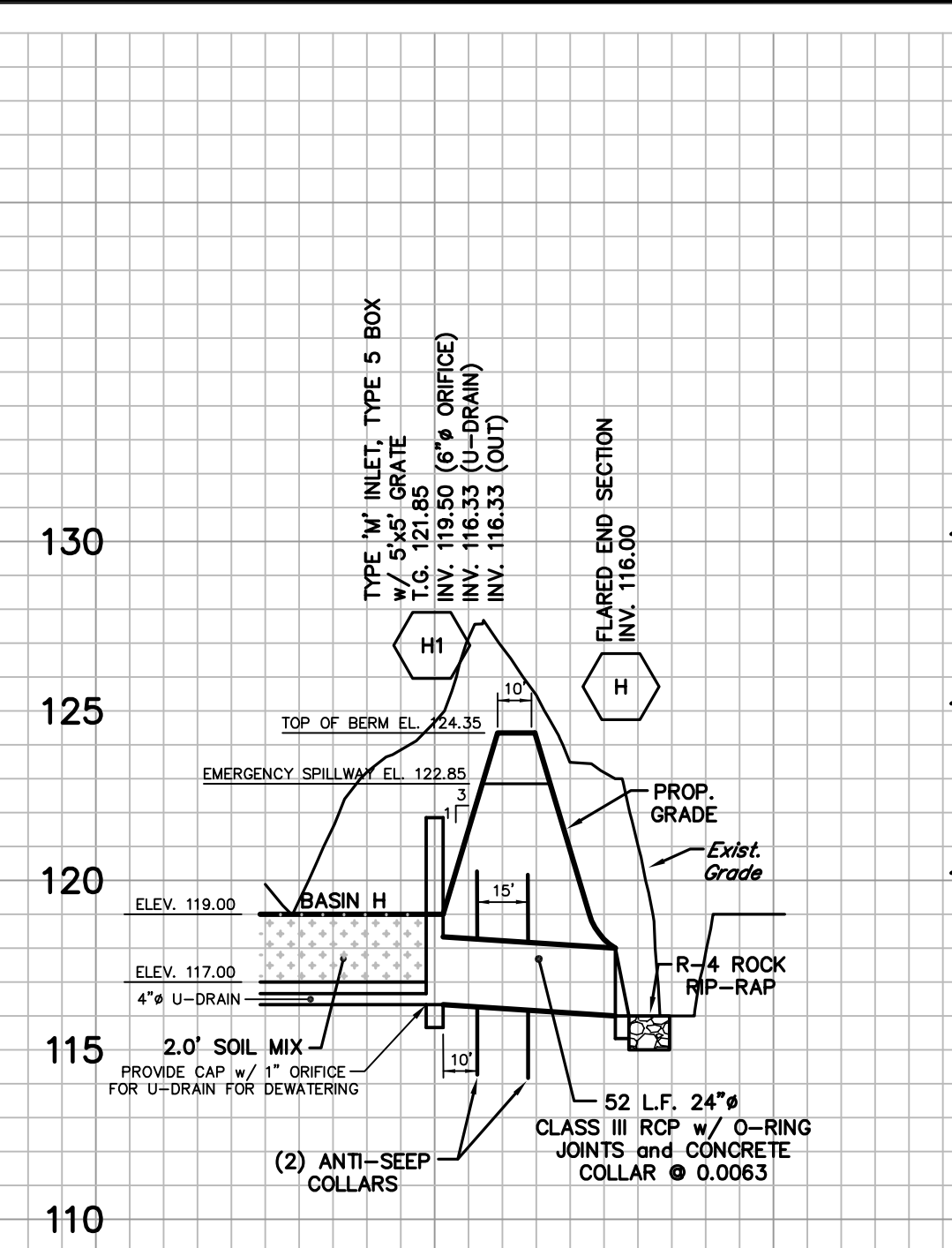
BASIN E OUTFALL

148.7	149.5	150.4	151.0	151.7	152.0
0	+25	+50	+75	1	



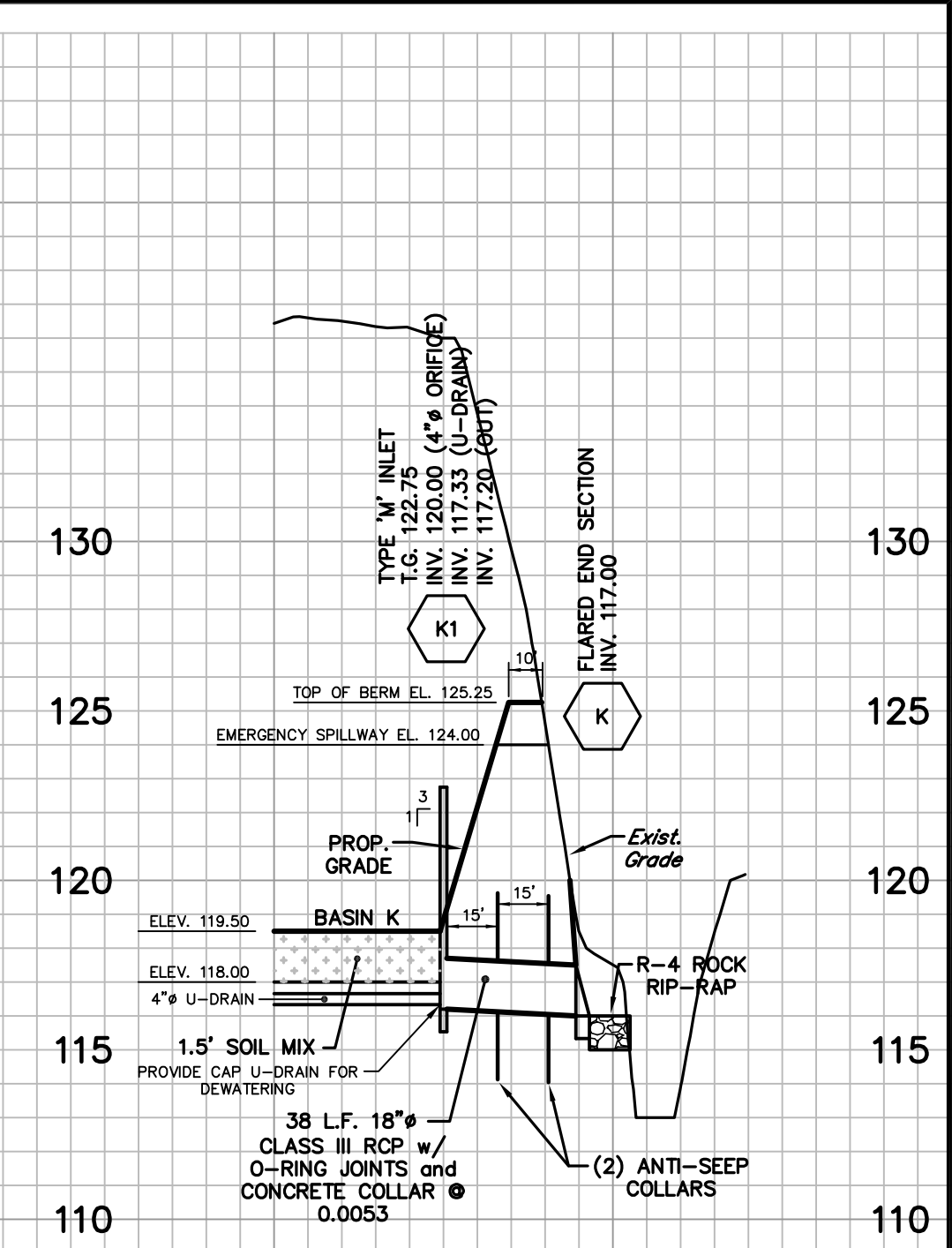
BASIN G OUTFALL

145.23	145.02	145.02	144.45	144.11	144.02	144.02
0	+25	+50	+75	1	+25	



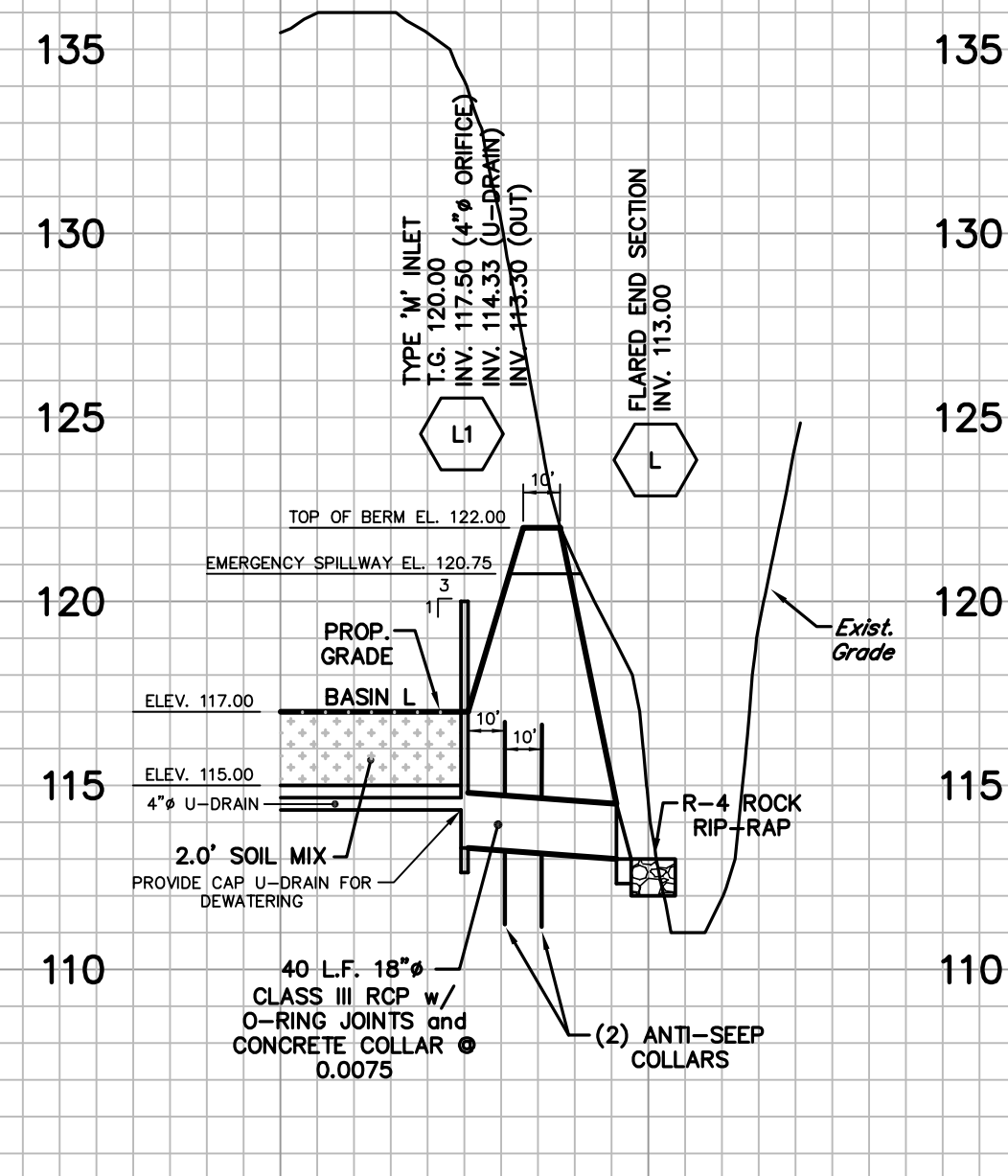
BASIN H OUTFALL

119.88	120.81	124.66	126.16	123.12	116.02	119.02
0	+25	+50	+75	1		



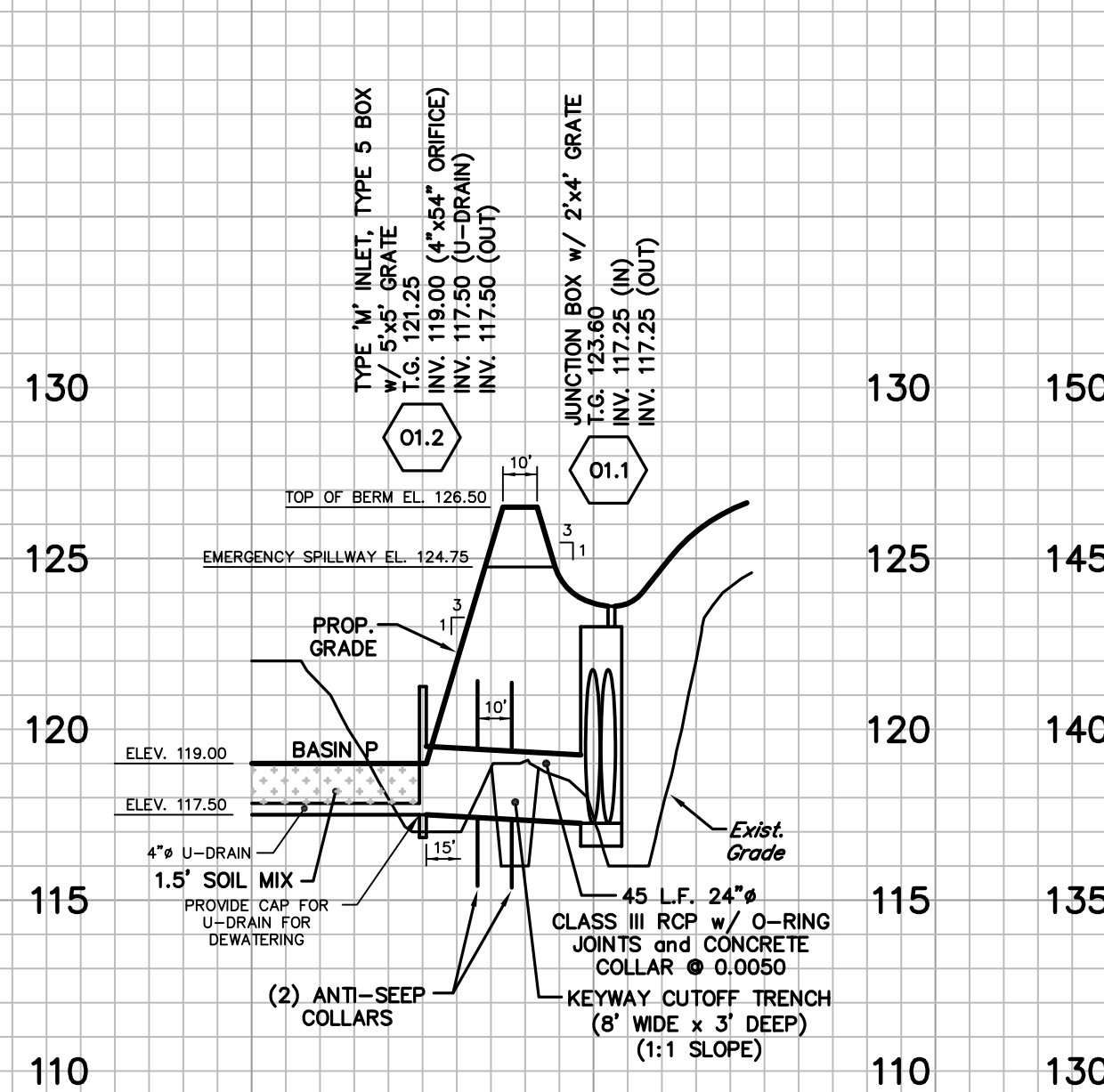
BASIN K OUTFALL

126.43	126.43	126.02	127.64	117.50	116.63
0	+25	+50	+75	1	



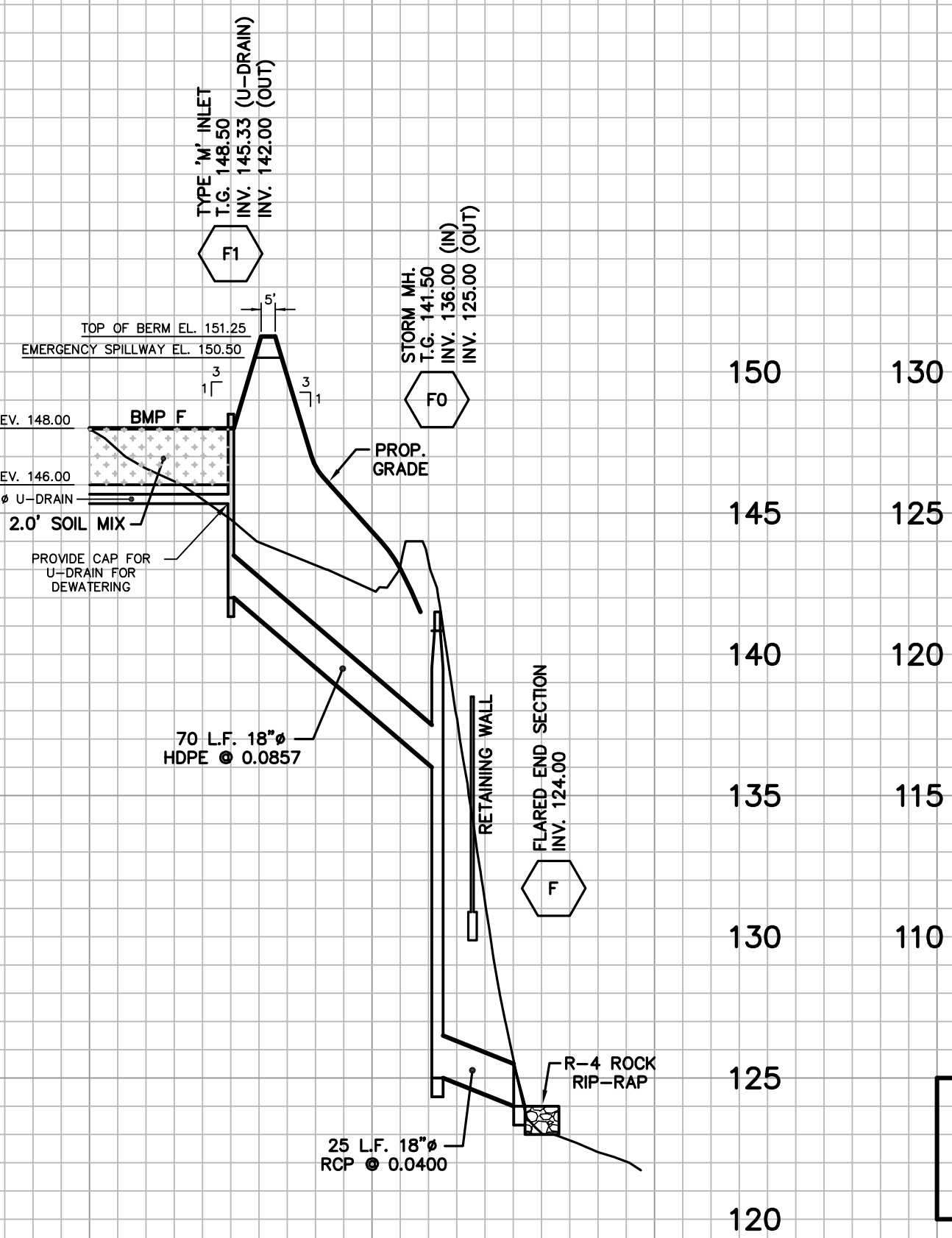
BASIN L OUTFALL

124.4	125.0	123.7	121.4	113.5	112.6
0	+25	+50	+75	1	



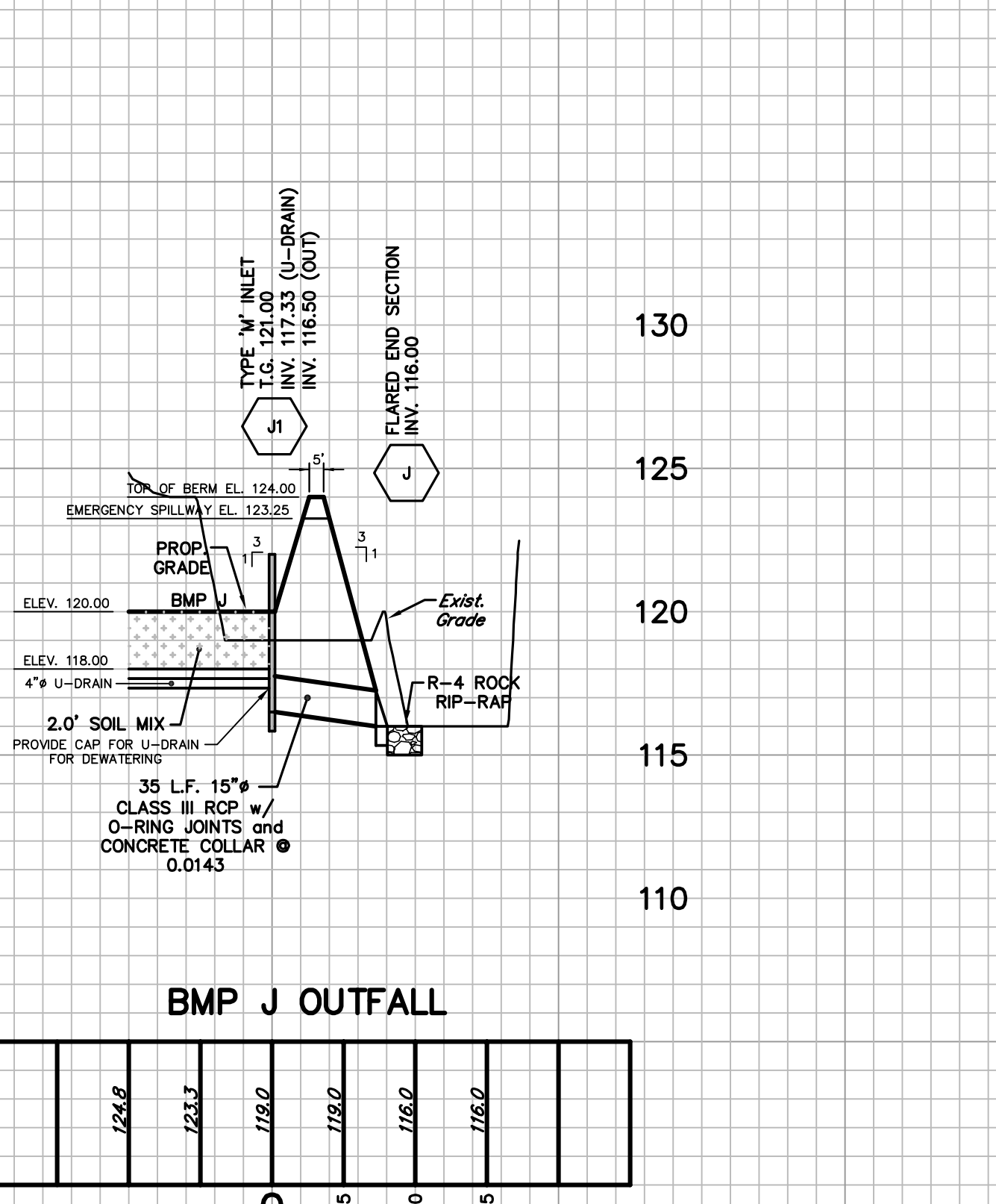
BASIN P OUTFALL

122.0	126.6	117.0	119.0	117.4	119.7
0	+25	+50	+75	1	



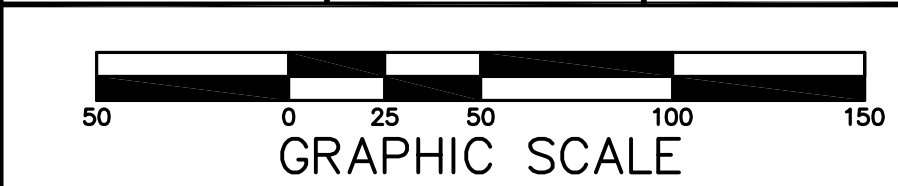
BMP F OUTFALL

142.9	146.3	144.8	143.4	142.3	141.0	138.7	122.6
0	+25	+50	+75	1			



BMP J OUTFALL

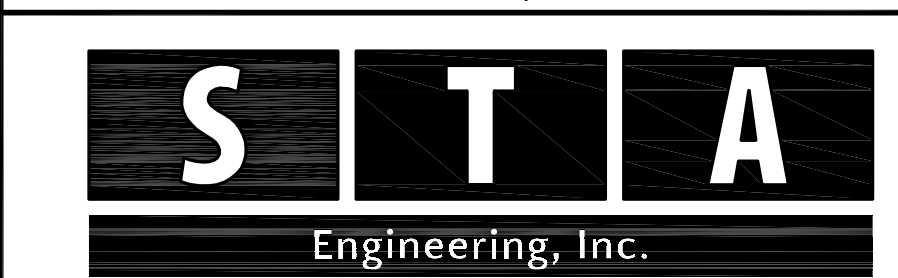
124.8	123.3	119.0	119.0	116.0	116.0
0	+25	+50	+75	1	



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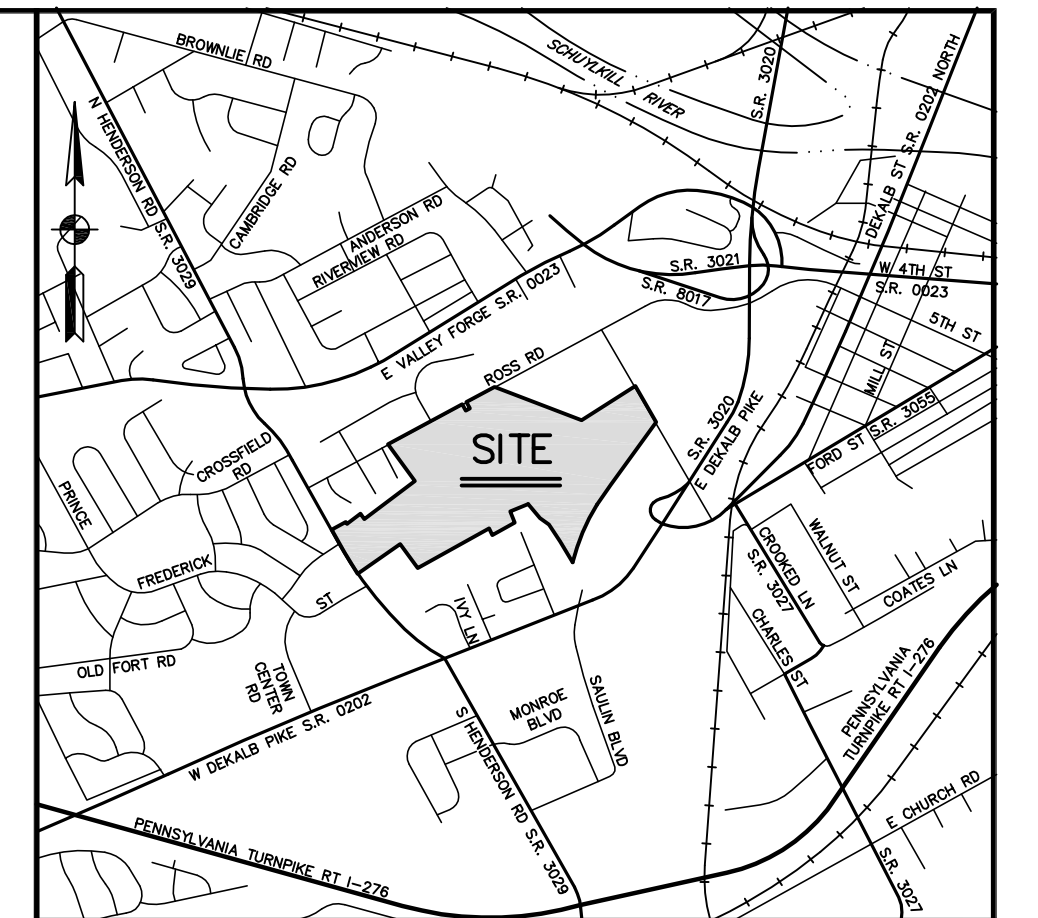
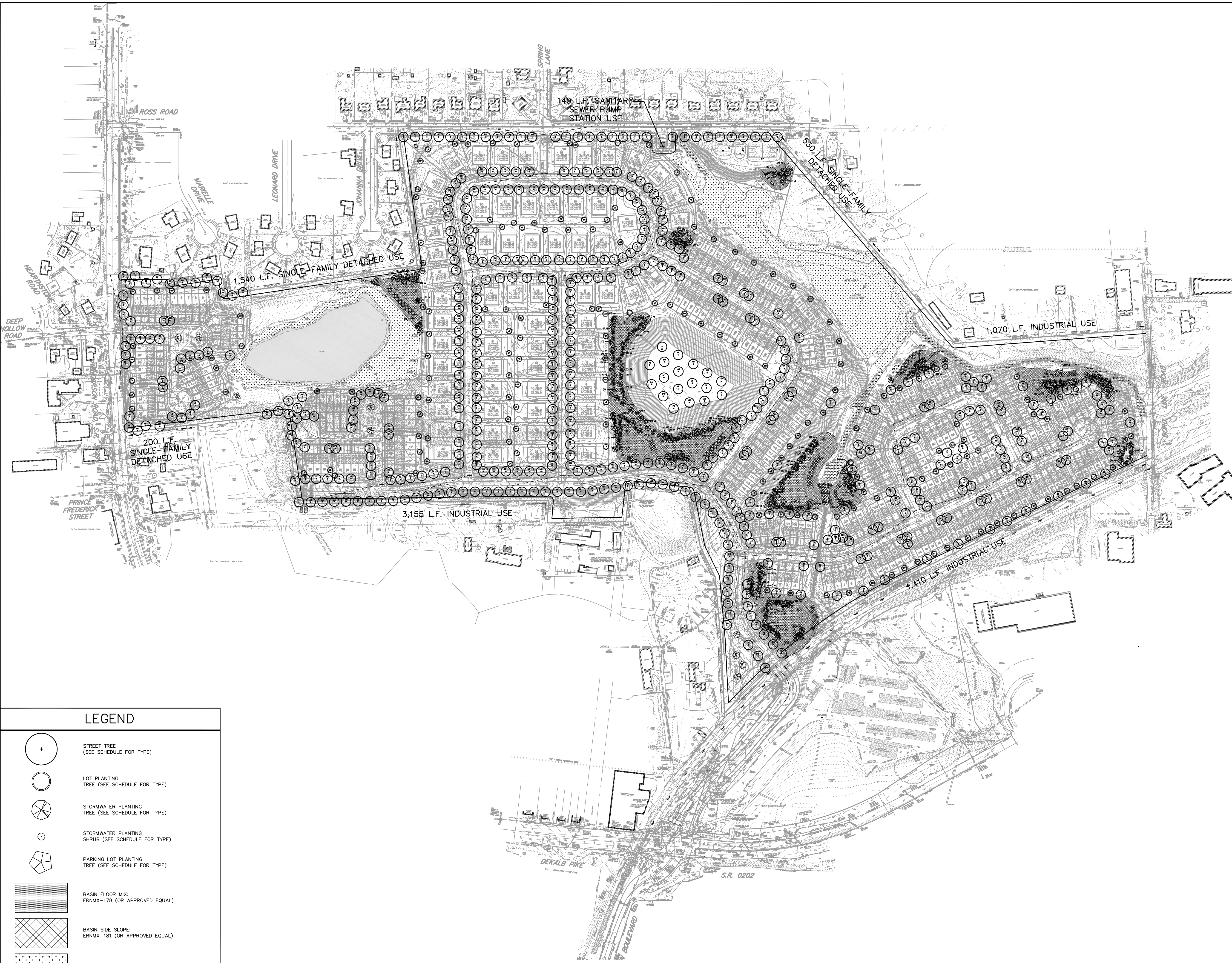
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PCSM PROFILES - BASIN & BMP OUTFALLS
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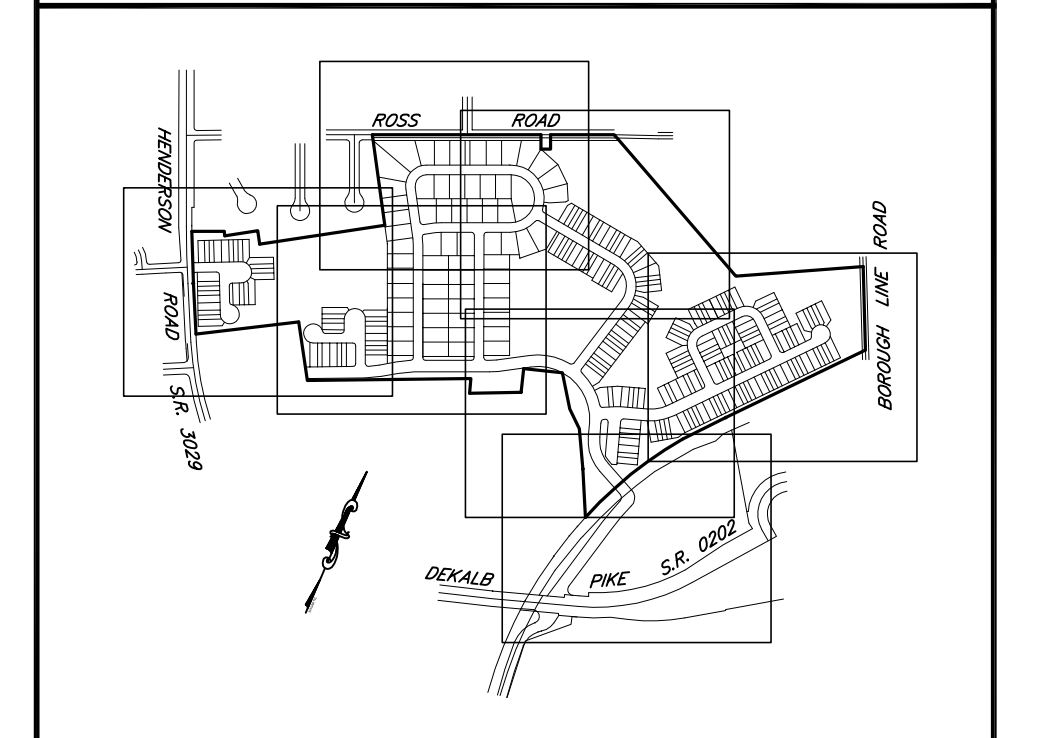


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SITE LOCATION MAP 1"=2000'



KEY MAP 1"=1000'

LEGEND

- STREET TREE (SEE SCHEDULE FOR TYPE)
- LOT PLANTING TREE (SEE SCHEDULE FOR TYPE)
- STORMWATER PLANTING TREE (SEE SCHEDULE FOR TYPE)
- STORMWATER PLANTING SHRUB (SEE SCHEDULE FOR TYPE)
- PARKING LOT PLANTING TREE (SEE SCHEDULE FOR TYPE)
- BASIN FLOOR MIX: ERNMx-178 (OR APPROVED EQUAL)
- BASIN SIDE SLOPE: ERNMx-181 (OR APPROVED EQUAL)
- AMENDED SOILS
- TREE PROTECTION FENCE

GRAPHIC SCALE

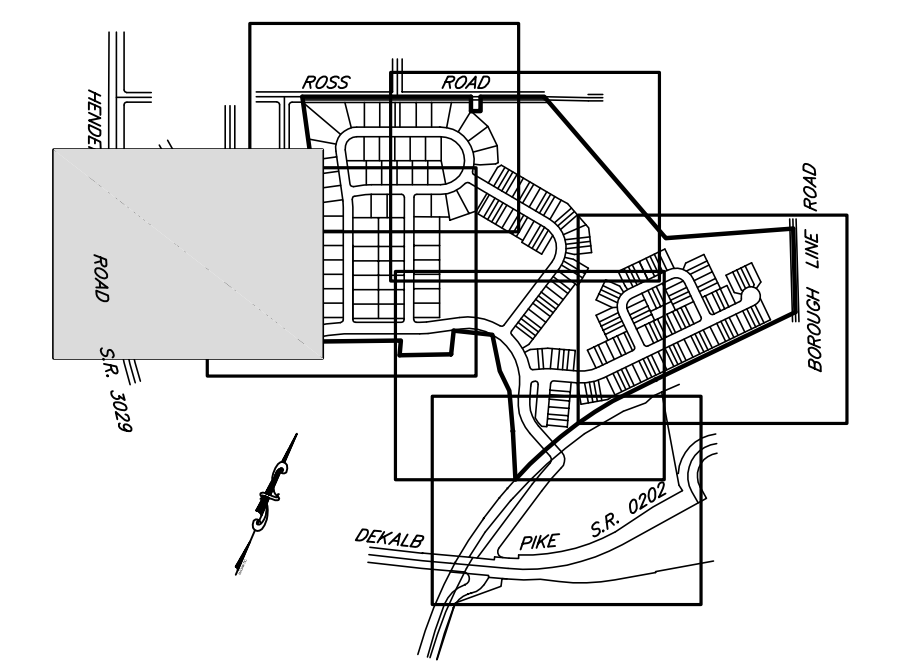
No.	INT.	REVISIONS	DATE
		S.T.A. PLAN ORIGINATION DATE	DEC. 17, 2018

OVERALL PCSM LANDSCAPE PLAN
 OF THE
GLASGOW TRACT
 PREPARED FOR
GLASGOW, INC.
 SITE SITUATE IN
 UPPER MERION TOWNSHIP
 MONTGOMERY COUNTY, PENNSYLVANIA

S T A
 Engineering, Inc.

Civil Engineers • Land Surveyors
 2499 KNIGHT ROAD, PENNSBURG, PA 18073
 MAILING: P.O. BOX 87, RED HILL, PA 18076
 PH: (215) 679-0200; www.stotac.com

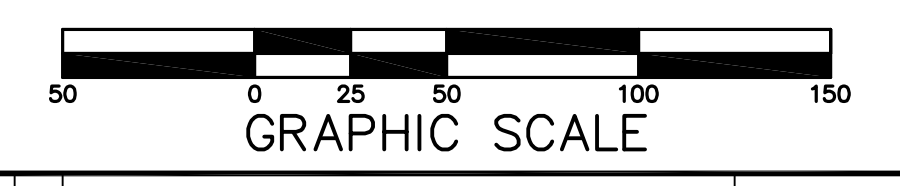
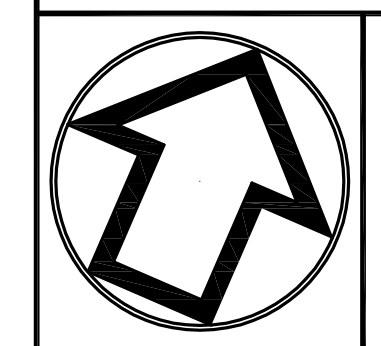
PLAN SCALE HORIZONTAL: 1"=150'	DRAFTED BY A.C.H.	PROJECT MANAGER S.A.R.	PLAN SHEET NUMBER 56 OF 90
	PROJECT NUMBER 5674	DRAWING FILE NUMBER 5674LA	



KEY MAP 1"=1000'

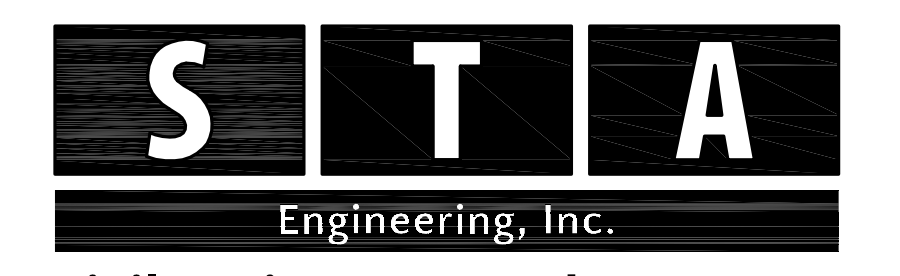
LEGEND

- STREET TREE (SEE SCHEDULE FOR TYPE)
- LOT PLANTING TREE (SEE SCHEDULE FOR TYPE)
- STORMWATER PLANTING TREE (SEE SCHEDULE FOR TYPE)
- STORMWATER PLANTING SHRUB (SEE SCHEDULE FOR TYPE)
- PARKING LOT PLANTING TREE (SEE SCHEDULE FOR TYPE)
- BASIN FLOOR MIX: ERNMX-178 (OR APPROVED EQUAL)
- BASIN SIDE SLOPE: ERNMX-181 (OR APPROVED EQUAL)
- AMENDED SOILS
- TREE PROTECTION FENCE
- SIGHT TRIANGLE



No.	INT.	REVISIONS	DATE
		S.T.A. PLAN ORIGINATION DATE	DEC. 17, 2018

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PLAN SCALE	DRAFTED BY	PROJECT MANAGER	PLAN SHEET NUMBER
HORIZONTAL:	A.C.H.	S.A.R.	
1"=50'	PROJECT NUMBER	DRAWING FILE NUMBER	
	5674	5674LA	57 OF 90