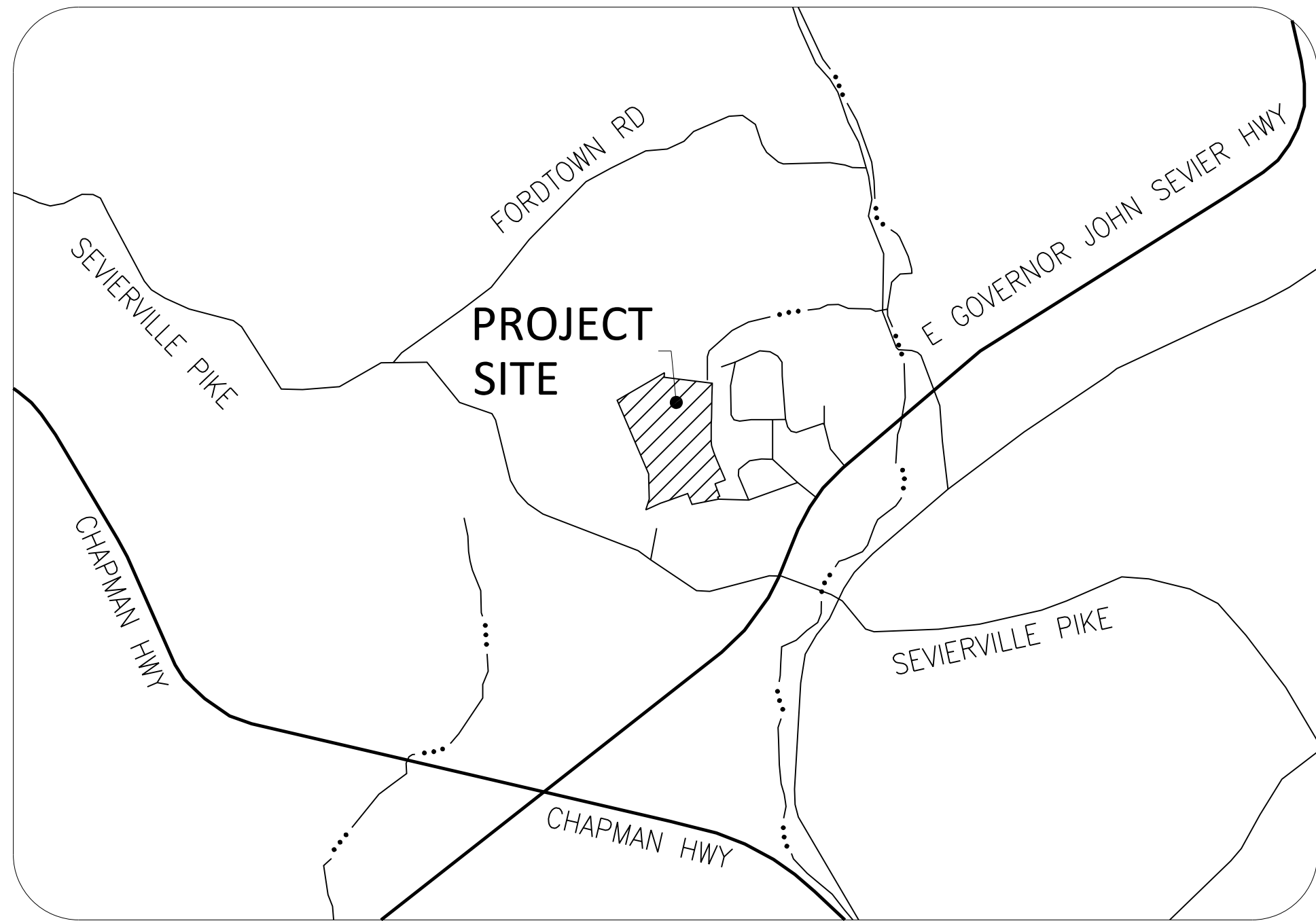


GONDOLA DRIVE SUBDIVISION

0 SEVIERVILLE PIKE KNOX COUNTY, TN



LOCATION MAP

DRAWING INDEX

SHEET NO.	REV. NO.	ISSUE DATE	TITLE
C0.01	0	06/06/23	COVER SHEET AND INDEX
C1.01	0	06/06/23	LAYOUT AND PAVING PLAN
C1.02	0	06/06/23	LAYOUT AND PAVING PLAN
C2.01	0	06/06/23	GRADING PLAN
C2.02	0	06/06/23	GRADING PLAN
C3.01	0	06/06/23	EPSC PLAN – STAGE 1
C3.02	0	06/06/23	EPSC PLAN – STAGE 1
C3.11	0	06/06/23	EPSC PLAN – STAGE 2
C3.12	0	06/06/23	EPSC PLAN – STAGE 2
C3.21	0	06/06/23	EPSC PLAN – STAGE 3
C3.22	0	06/06/23	EPSC PLAN – STAGE 3
C4.01	0	06/06/23	STORM DRAINAGE PLAN
C4.02	0	06/06/23	STORM DRAINAGE PLAN
C5.01	0	06/06/23	WATER PLAN
C5.02	0	06/06/23	WATER PLAN
C5.03	0	06/06/23	WATER PLAN AND PROFILE
C6.01	0	06/06/23	SANITARY SEWER PLAN
C6.02	0	06/06/23	SANITARY SEWER PLAN
C7.01	0	06/06/23	SANITARY SEWER PROFILES
C8.01	0	06/06/23	ROAD PROFILES
C9.01	0	06/06/23	DETAILS
C9.02	0	06/06/23	DETAILS
C9.03	0	06/06/23	DETAILS
C9.04	0	06/06/23	DETAILS



PARAGON
DEVELOPMENT L.P.
105 CENTER PARK
DRIVE #104 KNOXVILLE,
TN 37922
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NO.	DATE	BY	REVISION

GONDOLA DRIVE SUBDIVISION
0 SEVIERVILLE PIKE
KNOXVILLE, TN, 37920
COVER SHEET AND INDEX



JOB NO: 669.003
DATE: 06/06/2023

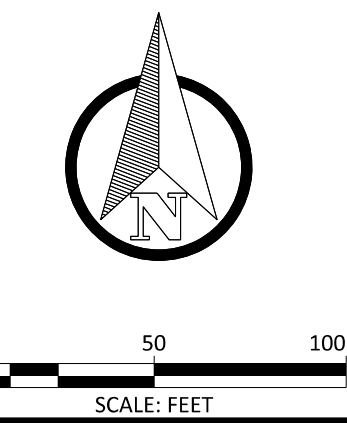
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06/06/2023

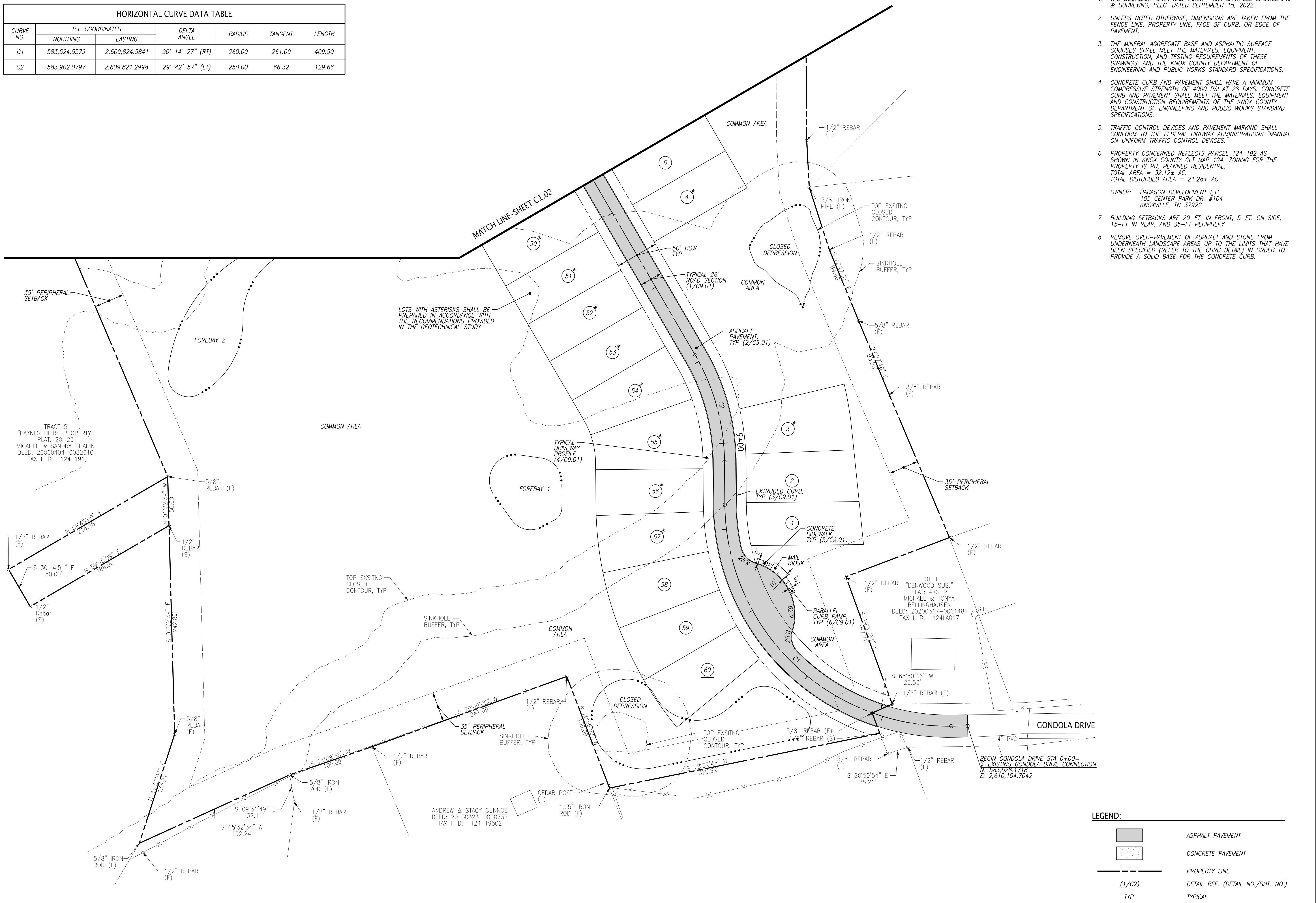
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Plot Date: 6/6/2023

HORIZONTAL CURVE DATA TABLE						
CURVE NO.	P.I. COORDINATES		DELTA ANGLE	RADIUS	TANGENT	LENGTH
	NORTHING	EASTING				
C1	583,524.5579	2,609,824.5841	90° 14' 27" (RT)	260.00	261.09	409.50
C2	583,902.0797	2,609,821.2998	29° 42' 57" (LT)	250.00	66.32	129.66

- NOTES:**
1. THE BOUNDARY DATA WAS TAKEN FROM CANTRELL ENGINEERING & SURVEYING, PLLC, DATED SEPTEMBER 15, 2022.
 2. UNLESS NOTED OTHERWISE, DIMENSIONS ARE TAKEN FROM THE FENCE LINE, PROPERTY LINE, FACE OF CURB, OR EDGE OF PAVEMENT.
 3. THE MINERAL AGGREGATE BASE AND ASPHALTIC SURFACE COURSES SHALL MEET THE MATERIALS, EQUIPMENT, CONSTRUCTION, AND TESTING REQUIREMENTS OF THESE DRAWINGS, AND THE KNOX COUNTY DEPARTMENT OF ENGINEERING AND PUBLIC WORKS STANDARD SPECIFICATIONS.
 4. CONCRETE CURB AND PAVEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. CONCRETE CURB AND PAVEMENT SHALL MEET THE MATERIALS, EQUIPMENT, AND CONSTRUCTION REQUIREMENTS OF THE KNOX COUNTY DEPARTMENT OF ENGINEERING AND PUBLIC WORKS STANDARD SPECIFICATIONS.
 5. TRAFFIC CONTROL DEVICES AND PAVEMENT MARKING SHALL CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATIONS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
 6. PROPERTY CONCERNED REFLECTS PARCEL 124 192 AS SHOWN IN KNOX COUNTY CLT MAP 124. ZONING FOR THE PROPERTY IS PR, PLANNED RESIDENTIAL. TOTAL AREA = 32.12± AC. TOTAL DISTURBED AREA = 21.28± AC.
OWNER: PARAGON DEVELOPMENT L.P., 105 CENTER PARK DR #104 KNOXVILLE, TN 37922
 7. BUILDING SETBACKS ARE 20-FT. IN FRONT, 5-FT. ON SIDE, 15-FT IN REAR, AND 35-FT PERIPHERY.
 8. REMOVE OVER-PAVEMENT OF ASPHALT AND STONE FROM UNDERNEATH LANDSCAPE AREAS UP TO THE LIMITS THAT HAVE BEEN SPECIFIED (REFER TO THE CURB DETAIL) IN ORDER TO PROVIDE A SOLID BASE FOR THE CONCRETE CURB.



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- LEGEND:**
- ASPHALT PAVEMENT
 - CONCRETE PAVEMENT
 - PROPERTY LINE
 - DETAIL REF. (DETAIL NO./SHT. NO.)
 - TYPICAL
 - LOT NUMBER

NO.	DATE	BY	REVISION

GONDOLA DRIVE SUBDIVISION
 0 SEVIERVILLE PIKE
 KNOXVILLE, TN, 37920
LAYOUT AND PAVING PLAN



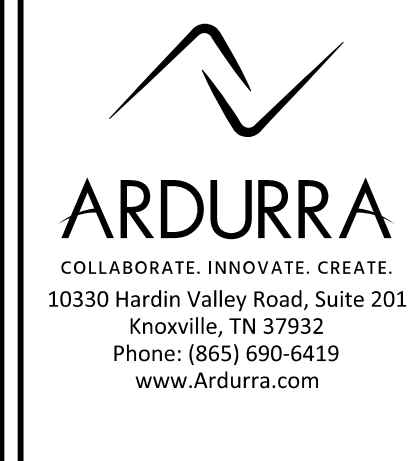
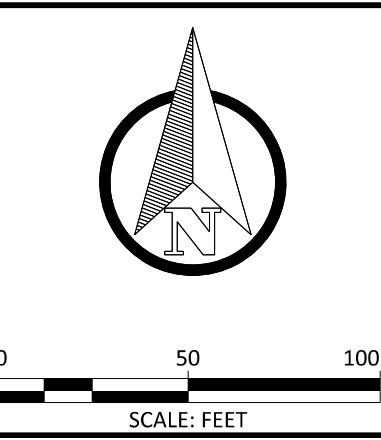
JOB NO: 669.003
 DATE: 06/06/2023

C1.01

File Name: \\16691\669.003\DWG\1669003-01.dwg
 Plot Date: 6/6/2023

HORIZONTAL CURVE DATA TABLE						
CURVE NO.	P.I. COORDINATES		DELTA ANGLE	RADIUS	TANGENT	LENGTH
	NORTHING	EASTING				
C3	584,366.9813	2,609,550.5667	13° 48' 26" (LT)	500.00	60.54	120.49

NOTES:
 1. REFER TO SHEET C1.01 FOR GENERAL NOTES.



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NO.	DATE	REVISION	BY

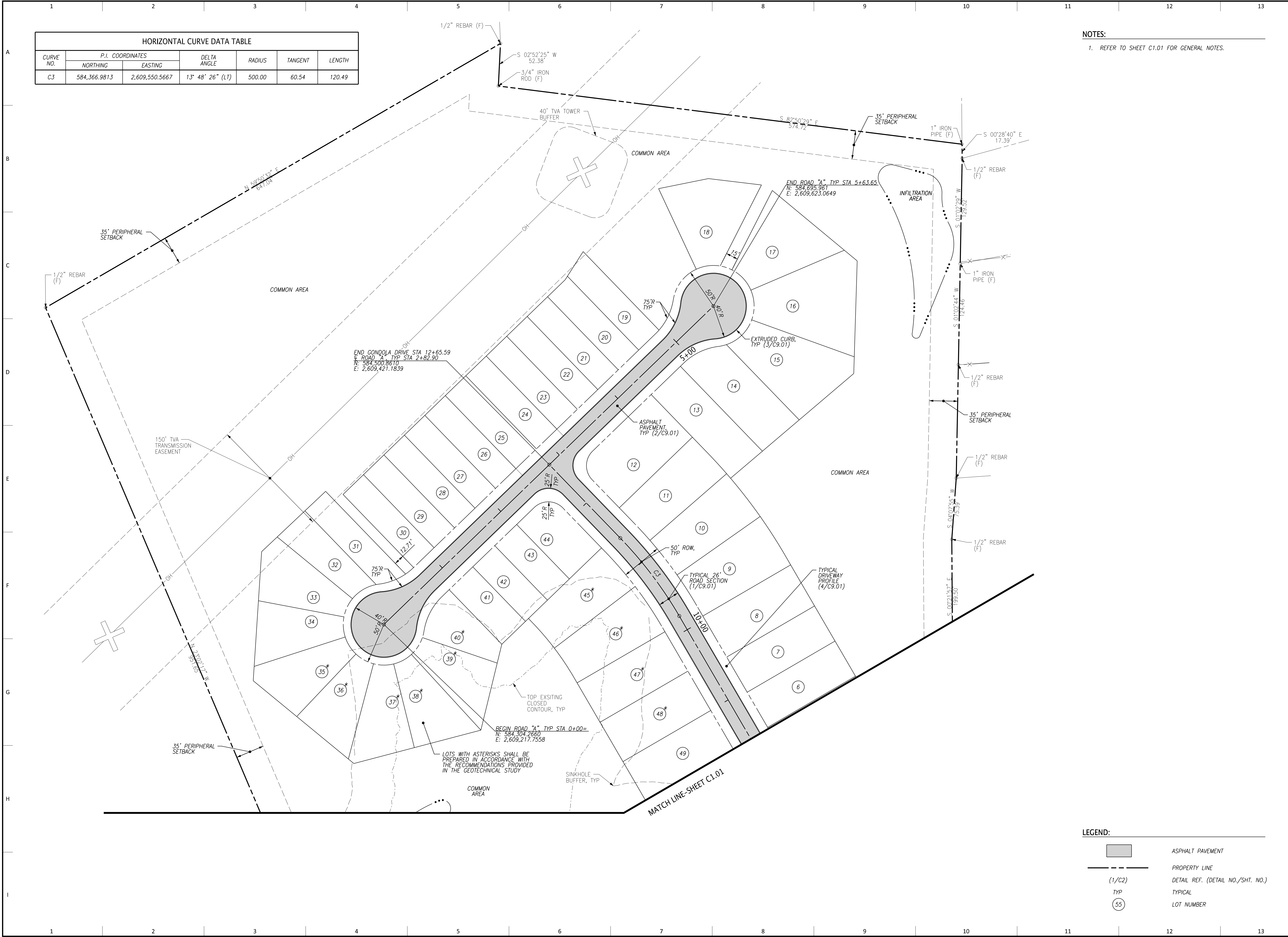
GONDOLA DRIVE SUBDIVISION
 0 SEVIERVILLE PIKE
 KNOXVILLE, TN, 37920
LAYOUT AND PAVING PLAN



JOB NO: 669.003
DATE: 06/06/2023

C1.02

IFC
 06/06/2023



LEGEND:	
[Grey Box]	ASPHALT PAVEMENT
[Dashed Line]	PROPERTY LINE
(1/C2)	DETAIL REF. (DETAIL NO./SHT. NO.)
TYP	TYPICAL
(55)	LOT NUMBER

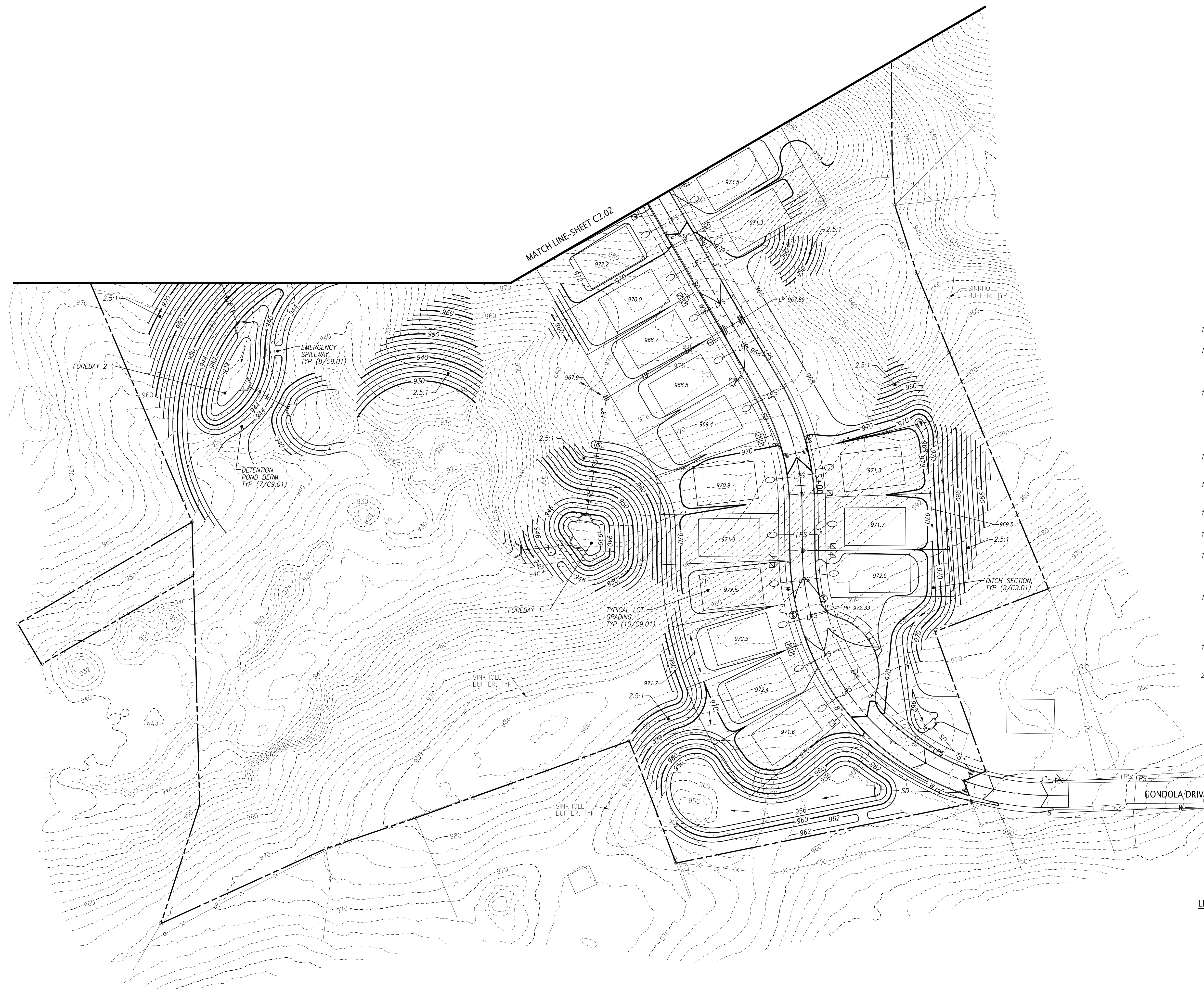
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 Plot Date: 6/6/2023

GRADING NOTES:

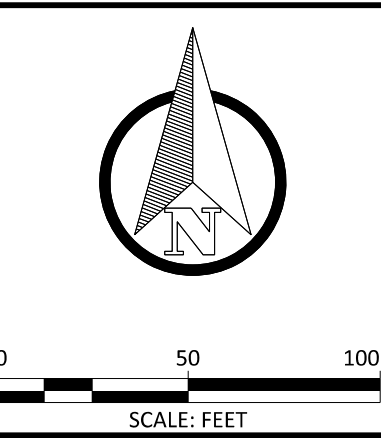
1. THE TOPOGRAPHIC DATA WAS TAKEN FROM AVAILABLE KGIS TOPOGRAPHIC MAPS.
2. UNLESS NOTED OTHERWISE, THE PROPOSED GRADES SHOWN ON THESE DRAWINGS ARE FINISHED GRADE. EXISTING AND PROPOSED CONTOURS ARE SHOWN AT 2'-FT. INTERVALS.
3. THE ACCURACY OF THE GRADES IS DEPENDANT ON THE DATA PROVIDED BY THE OWNER OR OWNER'S REPRESENTATIVE. FIELD VERIFY AS NECESSARY PRIOR TO CONSTRUCTION.
4. THE SITE SHALL BE CLEARED AND GRUBBED WITHIN THE LIMITS OF EXCAVATION. COMPLETELY DISPOSE OF ALL MATERIALS RESULTING FROM CLEARING AND GRUBBING OFF-SITE. BURNING SHALL NOT BE PERMITTED UNLESS PRIOR APPROVAL IS OBTAINED BY THE LOCAL FIRE DEPARTMENT. THE CONTRACTOR MUST OBTAIN A PERMIT AND MEET ALL OF THE REQUIREMENTS AS SPECIFIED BY THE FIRE DEPARTMENT.
5. ALL TREES, STUMPS, BOULDERS, AND OTHER OBSTRUCTIONS SHALL BE REMOVED TO A DEPTH OF 2 FT BELOW THE SUBGRADE. ROCK SHALL BE SCARIFIED TO DEPTH OF 1 FT BELOW SUBGRADE.
6. STRIP TOPSOIL FULL DEPTH (6-IN. MIN.) AND TEMPORARILY STOCKPILE EXCAVATED MATERIALS. INSTALL SILT FENCE OR OTHER APPROPRIATE EROSION CONTROL STRUCTURES ON THE DOWN HILL SIDE OF THE STOCKPILE.
7. PROOF ROLL ALL AREAS TO RECEIVE FILL. PROOF ROLL WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK USING A CRISS-CROSS PATTERN (4 PASSES MIN.) AREAS FAILING THE PROOF ROLLING SHALL BE UNDERCUT AND BACKFILLED USING AN ENGINEERED FILL OR STABILIZED BY A METHOD APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER.
8. AREAS THAT EXHIBIT WEAK SOIL OR OTHERWISE UNSUITABLE CONDITIONS SHALL BE UNDERCUT TO A FIRM LEVEL OF SOIL FOLLOWED BY BACKFILLING THE UNDERCUT AREAS USING AN ENGINEERED FILL. TDOT NO. 57, OR TDOT NO. 67 STONE.
9. FILL MATERIAL SHALL BE SATISFACTORY MATERIAL FREE FROM ROOTS AND OTHER ORGANIC MATERIAL, FROZEN MATERIAL, AND TRASH. FILL MATERIAL SHALL ALSO BE FREE OF STONE OR OTHER MATERIAL LARGER THAN 6 IN. AND LARGER THAN 4 IN. IN THE TOP 6 IN. OF AN EMBANKMENT.
10. FILL SOILS SHALL HAVE A PI LESS THAN 35 & A MAXIMUM DRY DENSITY OF 90 PCF OR GREATER.
11. UNSATISFACTORY SOILS INCLUDE MATERIALS THAT ARE TOO WET OR TOO SOFT, EXPANSIVE SOILS AND SOILS CLASSIFIED PT, OH, AND OL. LEGALLY DISPOSE OF UNSATISFACTORY SOILS OFF-SITE UNLESS OTHERWISE APPROVED BY THE OWNER OR GEOTECHNICAL ENGINEER.
12. FILL MATERIAL SHALL BE PLACED IN LOOSE, HORIZONTAL LIFTS NOT EXCEEDING 8 IN. THICKNESS. COMPACT EACH LAYER TO AT LEAST 98% MAXIMUM DRY DENSITY. COMPACT THE UPPER 24 IN. OF FILL BENEATH PAVEMENTS AND THE UPPER 12 IN. BENEATH BUILDING SLABS TO 100% MAXIMUM DRY DENSITY. MAINTAIN THE MOISTURE CONTENT TO WITHIN -2 TO +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
13. A 6 IN. (MIN.) LAYER OF TOPSOIL SHALL BE PLACED OVER THE AREAS TO BE SEED AND TO THE FINISH GRADE ELEVATIONS AS SHOWN ON THE DRAWINGS.
14. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS OR POND ON-SITE. PROVIDE NECESSARY MEASURES TO KEEP THE SITE FREE-DRAINING.
15. NO SLOPE SHALL EXCEED 2:1 UNLESS PROPER SLOPE STABILIZATION MEASURES ARE IMPLEMENTED.
16. PROTECT AND MAINTAIN SUBGRADES UNTIL PLACEMENT OF THE FINAL SURFACE IS ACHIEVED.
17. CONTRACTOR IS RESPONSIBLE TO ASSURE THAT THE FINISHED GRADES CONFORM WITH THE DETENTION POND DESIGN PARAMETERS. ONCE GRADING IS COMPLETE AND PRIOR TO FINAL SEEDING, SUBMIT AN AS-BUILT SURVEY FOR THE OWNER'S REVIEW.
18. VERIFY GRADES WHEREVER NECESSARY TO BRING THE PROPOSED LINES, ELEVATIONS, SLOPES, AND CROSS-SECTIONS OF THE GRADING WORK TO WITHIN THE FOLLOWING TOLERANCES ABOVE OR BELOW THAT AS SHOWN ON THE PLANS: SUBGRADE 0.1', UNPAVED AREAS 0.1', SIDEWALKS 0.10', PAVEMENTS 0.04', AND BUILDINGS 0.04'.
19. SLOPES WITH A MAXIMUM HEIGHT GREATER THAN 20-FT SHALL BE ANALYZED FOR SLOPE STABILITY BY THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
20. DISTURBED AREAS SHALL BE STABILIZED IN AN EXPEDITED MANNER TO MINIMIZE TIME OF EXPOSURE TO WEATHER.

LEGEND:

- PROPERTY LINE
- - - - - EXISTING CONTOUR
- - - - - PROPOSED CONTOUR
- 1007.9+ PROPOSED SPOT SHOT
- ← PROPOSED FLOW ARROW
- (1/C2) DETAIL REF. (DETAIL NO./SHT. NO.)
- TYP TYPICAL



File Name: \\16691-689-001\WORKS\6690032201.dgn
 Plot Date: 6/6/2023



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NO.	DATE	REVISION	BY

GONDOLA DRIVE SUBDIVISION
0 SEVIERVILLE PIKE
KNOXVILLE, TN, 37920
GRADING PLAN



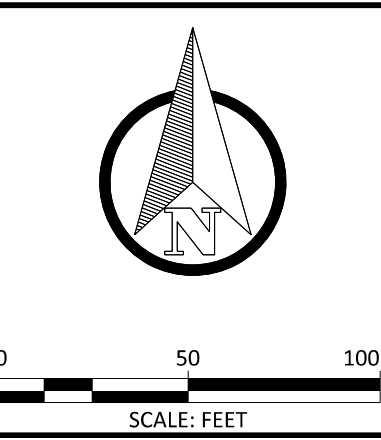
JOB NO: 669.003
 DATE: 06/06/2023

C2.01

IFC
 06/06/2023



NOTES:
 1. REFER TO SHEET C2.01 FOR GRADING NOTES.



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GONDOLA DRIVE SUBDIVISION
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 KNOXVILLE, TN, 37920
GRADING PLAN



JOB NO: 669.003
 DATE: 06/06/2023

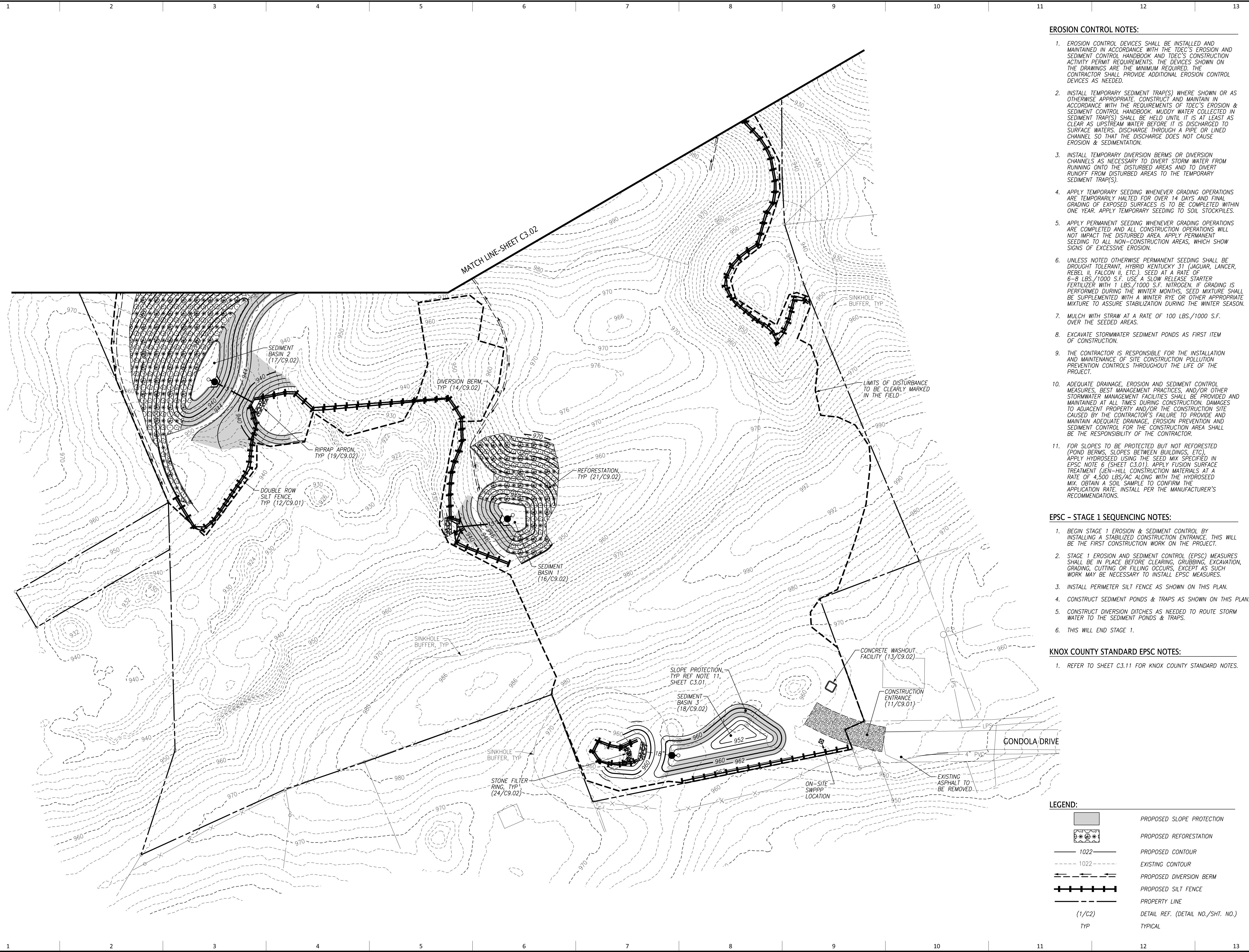
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 06/06/2023

- LEGEND:**
- PROPERTY LINE
 - - - - - EXISTING CONTOUR
 - 1012 PROPOSED CONTOUR
 - 1007.9⁺ PROPOSED SPOT SHOT
 - PROPOSED FLOW ARROW
 - (1/C2) DETAIL REF. (DETAIL NO./SHT. NO.)
 - TYP TYPICAL

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 Plot Date: 6/6/2023

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 Plot Date: 6/6/2023



EROSION CONTROL NOTES:

1. EROSION CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE TDEC'S EROSION AND SEDIMENT CONTROL HANDBOOK AND TDEC'S CONSTRUCTION ACTIVITY PERMIT REQUIREMENTS. THE DEVICES SHOWN ON THE DRAWINGS ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL DEVICES AS NEEDED.
2. INSTALL TEMPORARY SEDIMENT TRAP(S) WHERE SHOWN OR AS OTHERWISE APPROPRIATE. CONSTRUCT AND MAINTAIN IN ACCORDANCE WITH THE REQUIREMENTS OF TDEC'S EROSION & SEDIMENT CONTROL HANDBOOK. MUDDY WATER COLLECTED IN SEDIMENT TRAP(S) SHALL BE HELD UNTIL IT IS AT LEAST AS CLEAR AS UPSTREAM WATER BEFORE IT IS DISCHARGED TO SURFACE WATERS. DISCHARGE THROUGH A PIPE OR LINED CHANNEL SO THAT THE DISCHARGE DOES NOT CAUSE EROSION & SEDIMENTATION.
3. INSTALL TEMPORARY DIVERSION BERMS OR DIVERSION CHANNELS AS NECESSARY TO DIVERT STORM WATER FROM RUNNING ONTO THE DISTURBED AREAS AND TO DIVERT RUNOFF FROM DISTURBED AREAS TO THE TEMPORARY SEDIMENT TRAP(S).
4. APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND FINAL GRADING OF EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES.
5. APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. APPLY PERMANENT SEEDING TO ALL NON-CONSTRUCTION AREAS, WHICH SHOW SIGNS OF EXCESSIVE EROSION.
6. UNLESS NOTED OTHERWISE PERMANENT SEEDING SHALL BE DROUGHT TOLERANT, HYBRID KENTUCKY 31 (JAGUAR, LANCER, REBEL II, FALCON II, ETC.) SEED AT A RATE OF 6-8 LBS./1000 S.F. USE A SLOW RELEASE STARTER FERTILIZER WITH 1 LBS./1000 S.F. NITROGEN. IF GRADING IS PERFORMED DURING THE WINTER MONTHS, SEED MIXTURE SHALL BE SUPPLEMENTED WITH A WINTER RYE OR OTHER APPROPRIATE MIXTURE TO ASSURE STABILIZATION DURING THE WINTER SEASON.
7. MULCH WITH STRAW AT A RATE OF 100 LBS./1000 S.F. OVER THE SEEDED AREAS.
8. EXCAVATE STORMWATER SEDIMENT PONDS AS FIRST ITEM OF CONSTRUCTION.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF SITE CONSTRUCTION POLLUTION PREVENTION CONTROLS THROUGHOUT THE LIFE OF THE PROJECT.
10. ADEQUATE DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES, BEST MANAGEMENT PRACTICES, AND/OR OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE, EROSION PREVENTION AND SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. FOR SLOPES TO BE PROTECTED BUT NOT REFORESTED (POND BERMS, SLOPES BETWEEN BUILDINGS, ETC.) APPLY HYDROSEED USING THE SEED MIX SPECIFIED IN EPSC NOTE 6 (SHEET C3.01). APPLY FUSION SURFACE TREATMENT (JEN-HILL CONSTRUCTION MATERIALS) AT A RATE OF 4,500 LBS./AC ALONG WITH THE HYDROSEED MIX. OBTAIN A SOIL SAMPLE TO CONFIRM THE APPLICATION RATE. INSTALL PER THE MANUFACTURER'S RECOMMENDATIONS.

EPSC - STAGE 1 SEQUENCING NOTES:

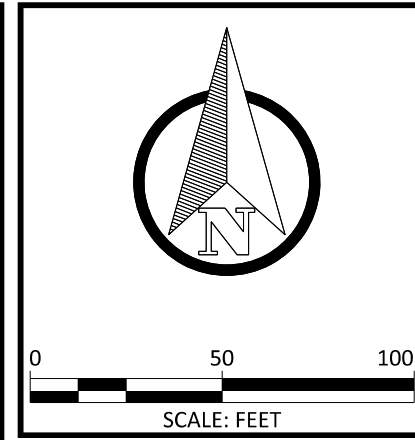
1. BEGIN STAGE 1 EROSION & SEDIMENT CONTROL BY INSTALLING A STABILIZED CONSTRUCTION ENTRANCE. THIS WILL BE THE FIRST CONSTRUCTION WORK ON THE PROJECT.
2. STAGE 1 EROSION AND SEDIMENT CONTROL (EPSC) MEASURES SHALL BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.
3. INSTALL PERIMETER SILT FENCE AS SHOWN ON THIS PLAN.
4. CONSTRUCT SEDIMENT PONDS & TRAPS AS SHOWN ON THIS PLAN.
5. CONSTRUCT DIVERSION DITCHES AS NEEDED TO ROUTE STORM WATER TO THE SEDIMENT PONDS & TRAPS.
6. THIS WILL END STAGE 1.

KNOX COUNTY STANDARD EPSC NOTES:

1. REFER TO SHEET C3.11 FOR KNOX COUNTY STANDARD NOTES.

LEGEND:

	PROPOSED SLOPE PROTECTION
	PROPOSED REFORESTATION
	PROPOSED CONTOUR
	EXISTING CONTOUR
	PROPOSED DIVERSION BERM
	PROPOSED SILT FENCE
	PROPERTY LINE
	DETAIL REF. (DETAIL NO./SHT. NO.)
	TYPICAL



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NO.	DATE	BY	REVISION

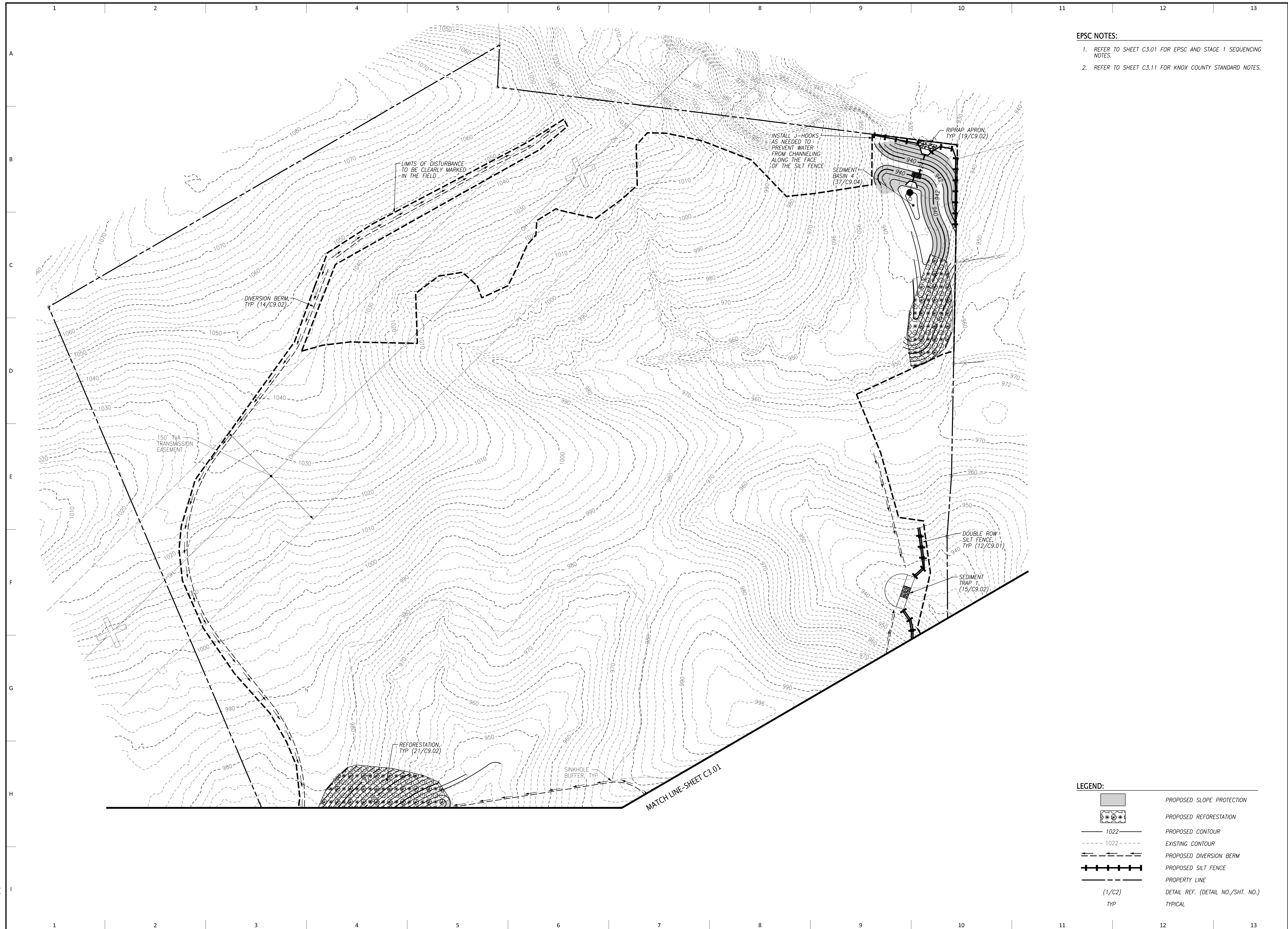
GONDOLA DRIVE SUBDIVISION
 0 SEVIERVILLE PIKE
 KNOXVILLE, TN, 37920
EPSC PLAN - STAGE 1



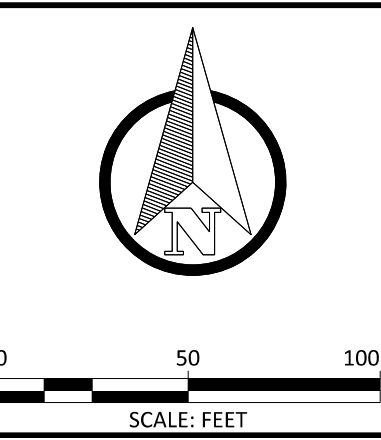
JOB NO: 669.003
 DATE: 06/06/2023

C3.01

IFC
 06/06/2023



- EPSC NOTES:**
- REFER TO SHEET C3.01 FOR EPSC AND STAGE 1 SEQUENCING NOTES.
 - REFER TO SHEET C3.11 FOR KNOX COUNTY STANDARD NOTES.



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NO.	DATE	REVISION	BY

GONDOLA DRIVE SUBDIVISION
 0 SEVIERVILLE PIKE
 KNOXVILLE, TN, 37920
EPSC PLAN - STAGE 1

LEGEND:

	PROPOSED SLOPE PROTECTION
	PROPOSED REFORESTATION
	PROPOSED CONTOUR
	EXISTING CONTOUR
	PROPOSED DIVERSION BERM
	PROPOSED SILT FENCE
	PROPERTY LINE
	DETAIL REF. (DETAIL NO./SHT. NO.)
	TYPICAL



JOB NO: 669.003
 DATE: 06/06/2023

C3.02

IFC
 06/06/2023

File Name: \\16691-689-001\WORKS\669003\C3.02.dwg
 Plot Date: 6/6/2023

KNOX COUNTY STANDARD EPSC NOTES:

1. THIS SITE IS A PRIORITY CONSTRUCTION ACTIVITY.
2. ADEQUATE DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES, BEST MANAGEMENT PRACTICES, AND/OR OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED & MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE AND EROSION/SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. QUALITY ASSURANCE OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE CONDUCTED BY QUALIFIED PERSONNEL PERFORMING SITE ASSESSMENT AT EACH OUTFALL INVOLVING DRAINAGE TOTALING 10 OR MORE ACRES, OR FIVE OR MORE ACRES IF DRAINING TO IMPAIRED OR EXCEPTIONAL WATERS. THIS ASSESSMENT WILL BE CONDUCTED AT EACH QUALIFYING OUTFALL WITHIN A MONTH OF CONSTRUCTION COMMENCEMENT. (SEE CCP SEC 3.1.2 FOR ASSESSMENT LANGUAGE)
4. FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND/OR STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS. ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED BY THE PERMITTED AND THE ADJOINING LAND OWNER.
5. SEDIMENT SHOULD BE REMOVED FROM SEDIMENT TRAPS, SILT FENCES, SEDIMENTATION PONDS, OTHER SEDIMENT CONTROLS WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50%.
6. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PICKED UP PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF THE SITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTION SOURCE FOR STORMWATER DISCHARGES.
7. PRECONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED, OR DISTURBED MORE THAN 14 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.
8. EXISTING VEGETATION SHOULD BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE.
9. TEMPORARY OR PERMANENT SOIL STABILIZATION MUST BE COMPLETED NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY OR TEMPORARILY CEASED. STEEP SLOPES (>35%) MUST BE PERMANENTLY OR TEMPORARILY STABILIZED WITHIN 7 DAYS.
10. SITE INSPECTIONS SHALL BE PERFORMED AT LEAST TWICE WEEKLY AT A MINIMUM OF 72 HOURS APART ON ALL UNSTABILIZED SITES.



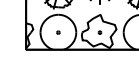

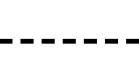
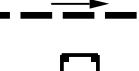



EPSC - STAGE 2 SEQUENCING NOTES:

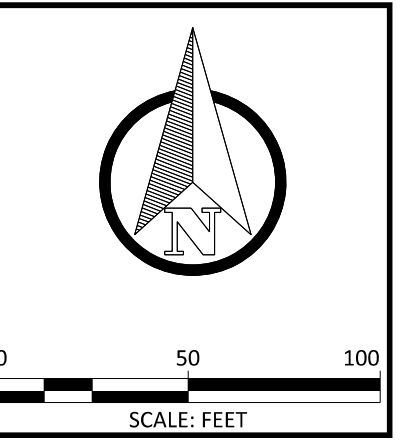
1. MAINTAIN STAGE 1 CONSTRUCTION ENTRANCE/EXIT & OTHER EPSC DEVICES.
2. INSTALL, ADJUST, AND MAINTAIN STAGE 2 EROSION & SEDIMENT CONTROLS AS SHOWN ON THIS PLAN INCLUDING INSTALLATION OF OTHER BMP'S NEEDED TO MEET TDEC'S PERFORMANCE REQUIREMENTS. THESE BMP'S MAY INCLUDE SEDIMENT TRAPS, DIVERSION BERMS, SLOPE DRAINS, ETC.
3. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF DISTURBANCE.
4. BEGIN MASS GRADING, STORMWATER SYSTEM, & UTILITY CONSTRUCTION.
5. INSTALL INLET PROTECTION & SLOPE PROTECTION AS DESCRIBED ON THIS PLAN.
6. ONCE SUBGRADES ARE ACHIEVED APPLY TOPSOIL, SEEDING, MULCH, OR OTHER PROTECTION TO THE DISTURBED AREAS AS SHOWN ON THIS PLAN.

EPSC NOTES:


1. REFER TO SHEET C3.01 FOR EROSION CONTROL NOTES.

LEGEND:

-  PROPOSED DITCH PROTECTION
-  PROPOSED SLOPE PROTECTION
-  PROPOSED REFORESTATION
-  PROPOSED PROPERTY LINE
-  PROPOSED SILT FENCE
-  LIMITS OF DISTURBANCE
-  PROPOSED DIVERSION BERM
-  TEMPORARY INLET PROTECTION
-  TEMPORARY ROCK CHECK DAM

SCALE: FEET



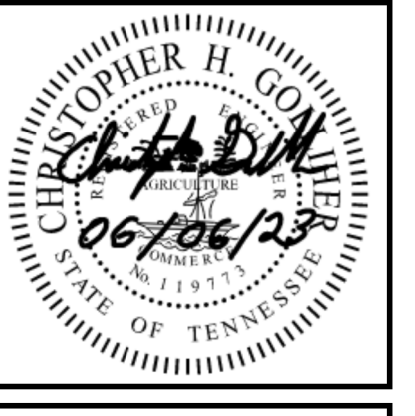
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NO.	DATE	BY	REVISION

GONDOLA DRIVE SUBDIVISION
0 SEVIERVILLE PIKE
KNOXVILLE, TN, 37920

EPSC PLAN - STAGE 2



JOB NO: 669.003
DATE: 06/06/2023

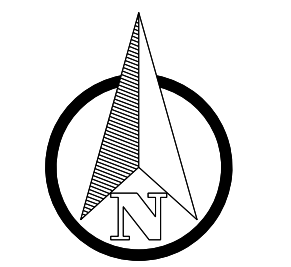
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Plot Date: 6/6/2023

EPSC NOTES:

1. REFER TO SHEET C3.01 FOR EROSION CONTROL NOTES.
2. REFER TO SHEET C3.11 FOR STAGE 2 SEQUENCING NOTES AND KNOX COUNTY STANDARD NOTES.



0 50 100
SCALE: FEET



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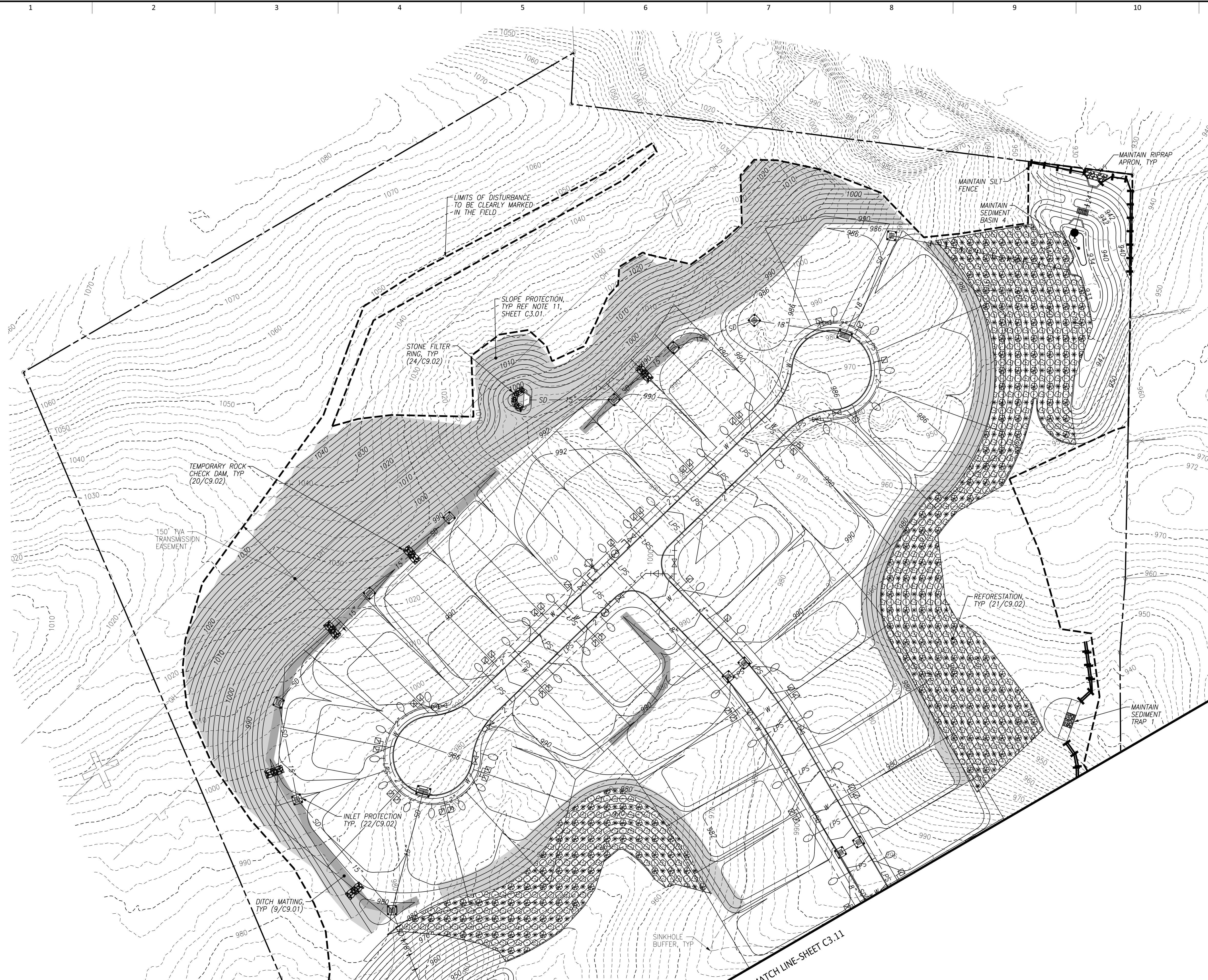
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EPSC PLAN - STAGE 2



JOB NO: 669.003
DATE: 06/06/2023

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06/06/2023



LEGEND:

	PROPOSED DITCH PROTECTION
	PROPOSED SLOPE PROTECTION
	PROPOSED REFORESTATION
	PROPOSED PROPERTY LINE
	PROPOSED SILT FENCE
	LIMITS OF DISTURBANCE
	PROPOSED DIVERSION BERM
	TEMPORARY INLET PROTECTION
	TEMPORARY ROCK CHECK DAM

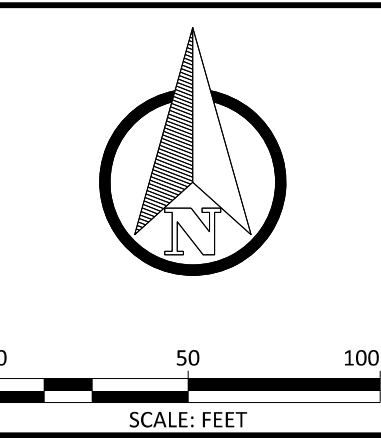
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Plot Date: 6/6/2023

EPSC NOTES:

1. REFER TO SHEET C3.01 FOR EROSION CONTROL NOTES.
2. REFER TO SHEET C3.11 FOR KNOX COUNTY STANDARD NOTES.

EPSC - STAGE 3 SEQUENCING NOTES:

1. STAGE 3 BEGINS AFTER THE PAVEMENT (BINDER COURSE, MIN.) IS INSTALLED. AT THIS STAGE THE HOUSE PADS SHOULD BE READY TO TURN OVER TO THE HOME BUILDER;
2. THE HOME BUILDER & OTHER SUB-CONTRACTORS SHALL SUBMIT A NOI TO TDEC PRIOR TO BEGINNING WORK. INDIVIDUAL LOT EROSION CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH DETAIL 25/C9.03;
3. THROUGHOUT STAGE 3, ADJUST, MAINTAIN, & REPLACE SILT FENCE, ROCK CHECK DAMS, & INLET PROTECTION AS NECESSARY TO MEET TDEC AND KNOX COUNTY'S PERFORMANCE STANDARDS;
4. INSTALL ADDITIONAL EPSC DEVICES TO PREVENT EROSION AT THE PAVEMENT AND SOIL INTERFACE AND TO PREVENT SEDIMENT RUNOFF ONTO THE NEW PAVEMENT;
5. BEGIN HOUSE CONSTRUCTION & INSTALL REMAINING SITE UTILITIES;
6. CLEAN OUT ANY ACCUMULATED SEDIMENT FROM THE SEDIMENT PONDS AND SEDIMENT TRAPS. PERFORM THE NECESSARY GRADING, RE-SPREADING OF TOPSOIL AND SEEDING TO CONVERT THE TEMPORARY SEDIMENT PONDS INTO THE PERMANENT INFILTRATION BASIN AND SEDIMENT FOREBAYS AS SHOWN ON THE GRADING PLAN.
7. ONCE THE SITE IS STABILIZED, INSTALL INFILTRATION BASINS AS SHOWN ON THESE PLANS;
8. AS SOON AS PRACTICAL, STABILIZE DISTURBED AREAS;
9. REMOVE AND DISPOSE OF REMAINING TEMPORARY EPSC ONCE THE SITE IS FULLY STABILIZED;
10. THE CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (NOT) AFTER THE COMPLETE INSTALLATION AND SUCCESSFUL ESTABLISHMENT OF THE FINAL STABILIZATION ACTIVITIES HAVE OCCURRED AT THE SITE.



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GONDOLA DRIVE SUBDIVISION
 0 SEVIERVILLE PIKE
 KNOXVILLE, TN, 37920
EPSC PLAN - STAGE 3



JOB NO: 669.003
 DATE: 06/06/2023

C3.21

IFC
 06/06/2023



LEGEND:

- PROPOSED PROPERTY LINE
- 1020 — PROPOSED CONTOUR
- - - 1022 - - - EXISTING CONTOUR
- +—+—+— PROPOSED SILT FENCE
- - - - - LIMITS OF DISTURBANCE
- TEMPORARY INLET PROTECTION
- ▣ TEMPORARY ROCK CHECK DAM
- ▤ TEMPORARY STONE FILTER RING
- SD— PROPOSED STORM LINE

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- EPSC NOTES:**
1. REFER TO SHEET C3.01 FOR EROSION CONTROL NOTES.
 2. REFER TO SHEET C3.11 KNOX COUNTY STANDARD NOTES.
 3. REFER TO SHEET C3.21 FOR STAGE 3 SEQUENCING NOTES.

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 KNOXVILLE, TN, 37920
EPSC PLAN - STAGE 3

- LEGEND:**
- — — — — PROPOSED PROPERTY LINE
 - 1020 — PROPOSED CONTOUR
 - - - - - EXISTING CONTOUR
 - +++++ PROPOSED SILT FENCE
 - - - - - LIMITS OF DISTURBANCE
 - TEMPORARY INLET PROTECTION
 - ▣ TEMPORARY ROCK CHECK DAM
 - ▤ TEMPORARY STONE FILTER RING
 - SO — PROPOSED STORM LINE

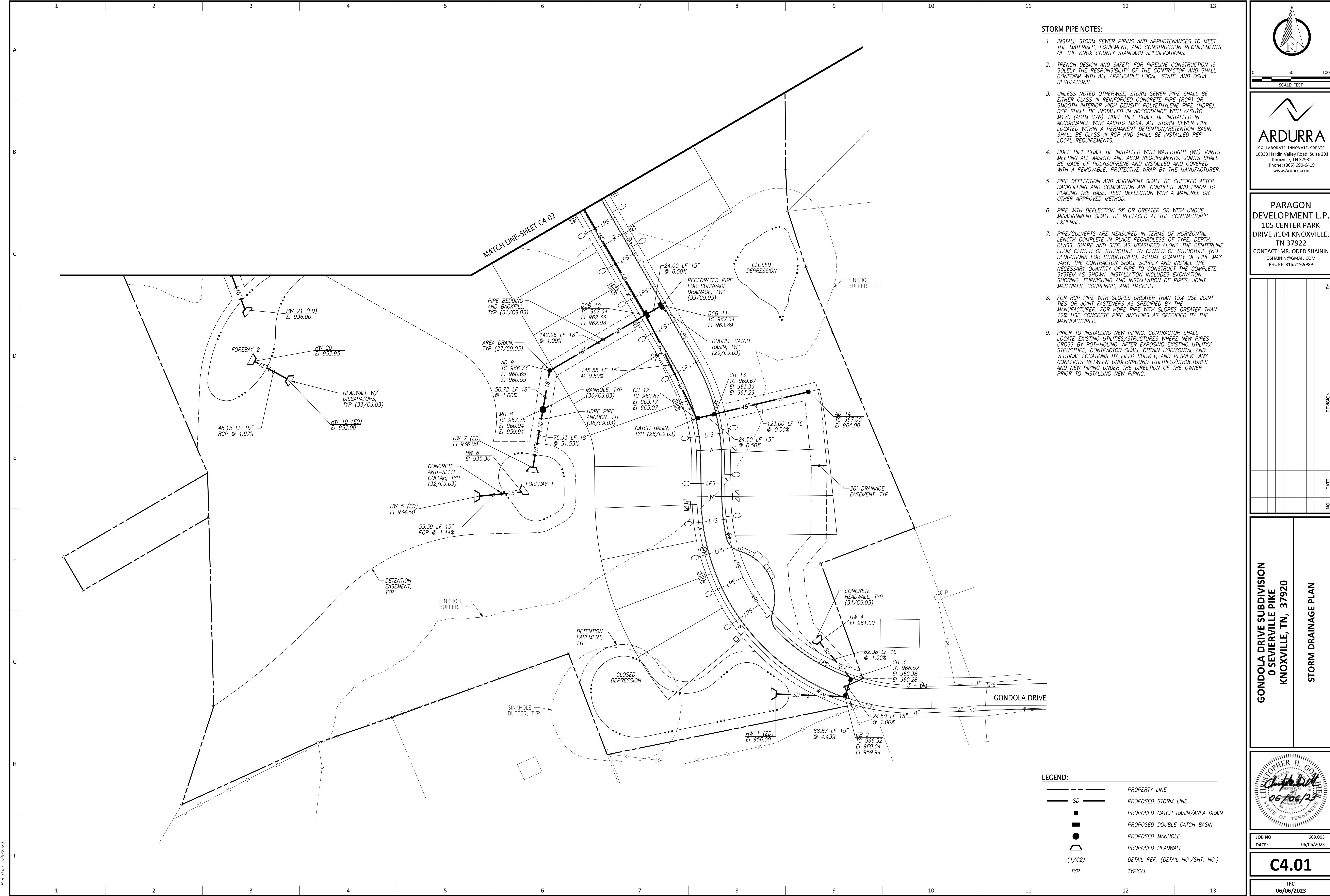


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STORM PIPE NOTES:

- INSTALL STORM SEWER PIPING AND APPURTENANCES TO MEET THE MATERIALS, EQUIPMENT, AND CONSTRUCTION REQUIREMENTS OF THE KNOX COUNTY STANDARD SPECIFICATIONS.
- TRENCH DESIGN AND SAFETY FOR PIPELINE CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM WITH ALL APPLICABLE LOCAL, STATE, AND OSHA REGULATIONS.
- UNLESS NOTED OTHERWISE, STORM SEWER PIPE SHALL BE EITHER CLASS III REINFORCED CONCRETE PIPE (RCP) OR SMOOTH INTERIOR HIGH DENSITY POLYETHYLENE PIPE (HDPE). RCP SHALL BE INSTALLED IN ACCORDANCE WITH AASHTO M170 (ASTM C76). HDPE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH AASHTO M294. ALL STORM SEWER PIPE LOCATED WITHIN A PERMANENT DETENTION/RETENTION BASIN SHALL BE CLASS III RCP AND SHALL BE INSTALLED PER LOCAL REQUIREMENTS.
- HDPE PIPE SHALL BE INSTALLED WITH WATERTIGHT (WT) JOINTS MEETING ALL AASHTO AND ASTM REQUIREMENTS. JOINTS SHALL BE MADE OF POLYISOPRENE AND INSTALLED AND COVERED WITH A REMOVABLE, PROTECTIVE WRAP BY THE MANUFACTURER.
- PIPE DEFLECTION AND ALIGNMENT SHALL BE CHECKED AFTER BACKFILLING AND COMPACTION ARE COMPLETE AND PRIOR TO PLACING THE BASE. TEST DEFLECTION WITH A MANDREL OR OTHER APPROVED METHOD.
- PIPE WITH DEFLECTION 5% OR GREATER OR WITH UNDUE MISALIGNMENT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- PIPE/CULVERTS ARE MEASURED IN TERMS OF HORIZONTAL LENGTH COMPLETE IN PLACE REGARDLESS OF TYPE, DEPTH, CLASS, SHAPE AND SIZE, AS MEASURED ALONG THE CENTERLINE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE (NO DEDUCTIONS FOR STRUCTURES). ACTUAL QUANTITY OF PIPE MAY VARY. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE NECESSARY QUANTITY OF PIPE TO CONSTRUCT THE COMPLETE SYSTEM AS SHOWN. INSTALLATION INCLUDES EXCAVATION, SHORING, FURNISHING AND INSTALLATION OF PIPES, JOINT MATERIALS, COUPLINGS, AND BACKFILL.
- FOR RCP PIPE WITH SLOPES GREATER THAN 15% USE JOINT TIES OR JOINT FASTENERS AS SPECIFIED BY THE MANUFACTURER. FOR HDPE PIPE WITH SLOPES GREATER THAN 12% USE CONCRETE PIPE ANCHORS AS SPECIFIED BY THE MANUFACTURER.
- PRIOR TO INSTALLING NEW PIPING, CONTRACTOR SHALL LOCATE EXISTING UTILITIES/STRUCTURES WHERE NEW PIPES CROSS BY POT-HOLING. AFTER EXPOSING EXISTING UTILITY/STRUCTURE, CONTRACTOR SHALL OBTAIN HORIZONTAL AND VERTICAL LOCATIONS BY FIELD SURVEY, AND RESOLVE ANY CONFLICTS BETWEEN UNDERGROUND UTILITIES/STRUCTURES AND NEW PIPING UNDER THE DIRECTION OF THE OWNER PRIOR TO INSTALLING NEW PIPING.

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GONDOLA DRIVE SUBDIVISION
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 KNOXVILLE, TN, 37920

STORM DRAINAGE PLAN

LEGEND:

---	PROPERTY LINE
SD	PROPOSED STORM LINE
■	PROPOSED CATCH BASIN/AREA DRAIN
■	PROPOSED DOUBLE CATCH BASIN
●	PROPOSED MANHOLE
▲	PROPOSED HEADWALL
(1/C2)	DETAIL REF. (DETAIL NO./SHT. NO.)
TYP	TYPICAL

CHRISTOPHER H. COOK
 PROFESSIONAL ENGINEER
 STATE OF TENNESSEE
 No. 32749
 06/06/2023

JOB NO: 669.003
 DATE: 06/06/2023

C4.01

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NOTES:
1. REFER TO SHEET C4.01 FOR STORM PIPE NOTES.

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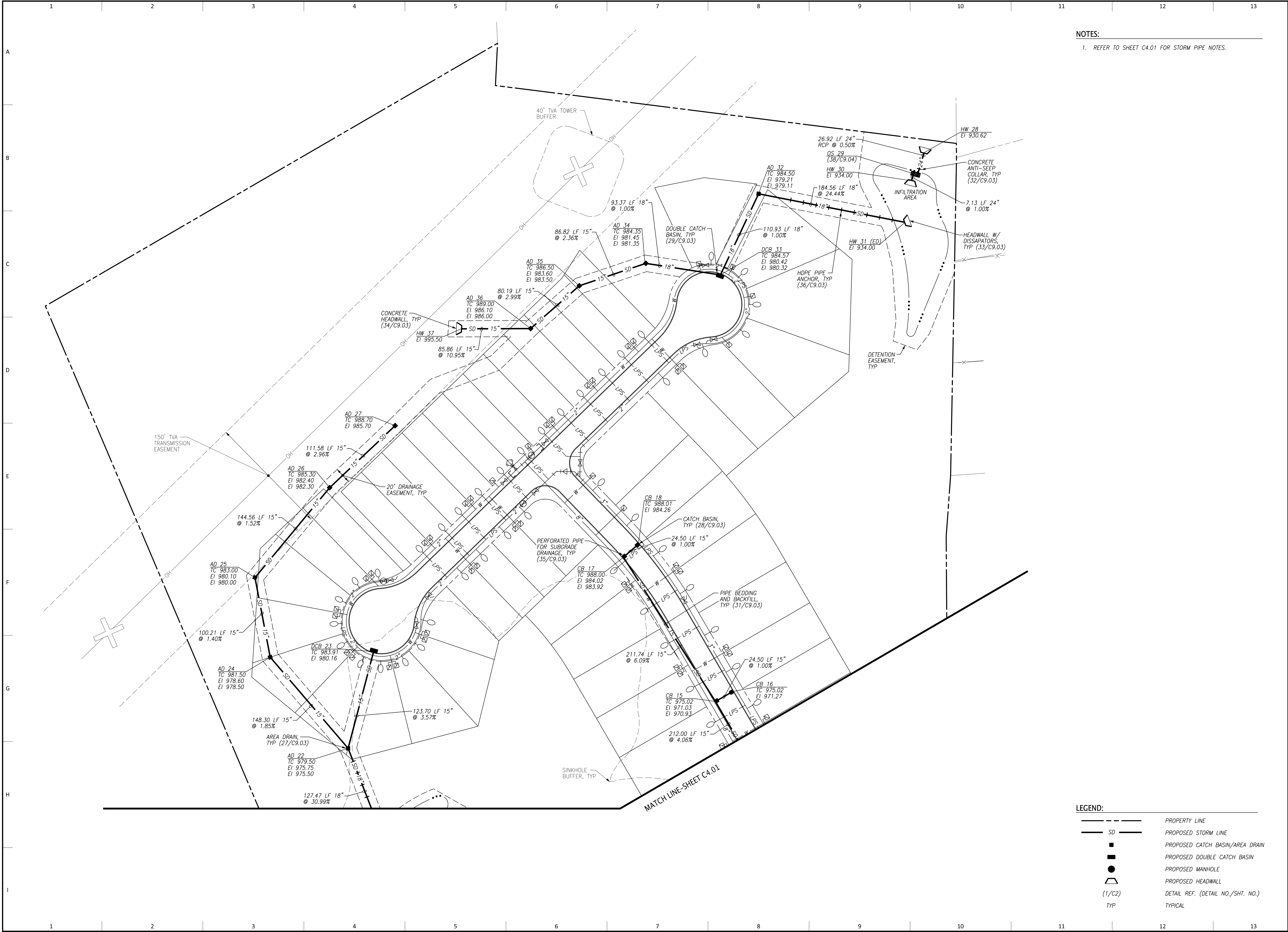
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KNOXVILLE, TN, 37920
STORM DRAINAGE PLAN

JOB NO: 669.003
DATE: 06/06/2023

C4.02

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06/06/2023



LEGEND:

- PROPERTY LINE
- SD --- PROPOSED STORM LINE
- ▭ PROPOSED CATCH BASIN/AREA DRAIN
- ▣ PROPOSED DOUBLE CATCH BASIN
- PROPOSED MANHOLE
- ▵ PROPOSED HEADWALL
- (1/C2) DETAIL REF. (DETAIL NO./SHT. NO.)
- TYP TYPICAL

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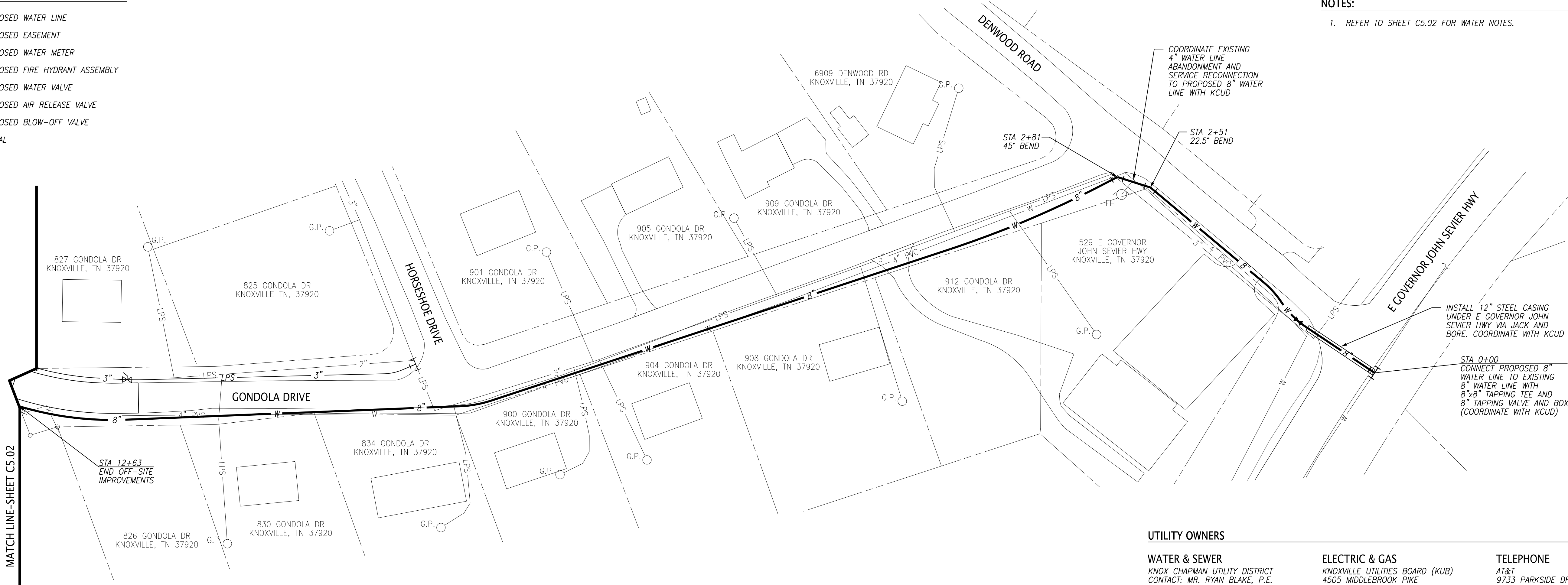
- LEGEND:**
- W — PROPOSED WATER LINE
 - - - - PROPOSED EASEMENT
 - PROPOSED WATER METER
 - ⊕ PROPOSED FIRE HYDRANT ASSEMBLY
 - ⊗ PROPOSED WATER VALVE
 - ⊕ PROPOSED AIR RELEASE VALVE
 - ⊗ PROPOSED BLOW-OFF VALVE
 - TYP TYPICAL

NOTES:
 1. REFER TO SHEET C5.02 FOR WATER NOTES.

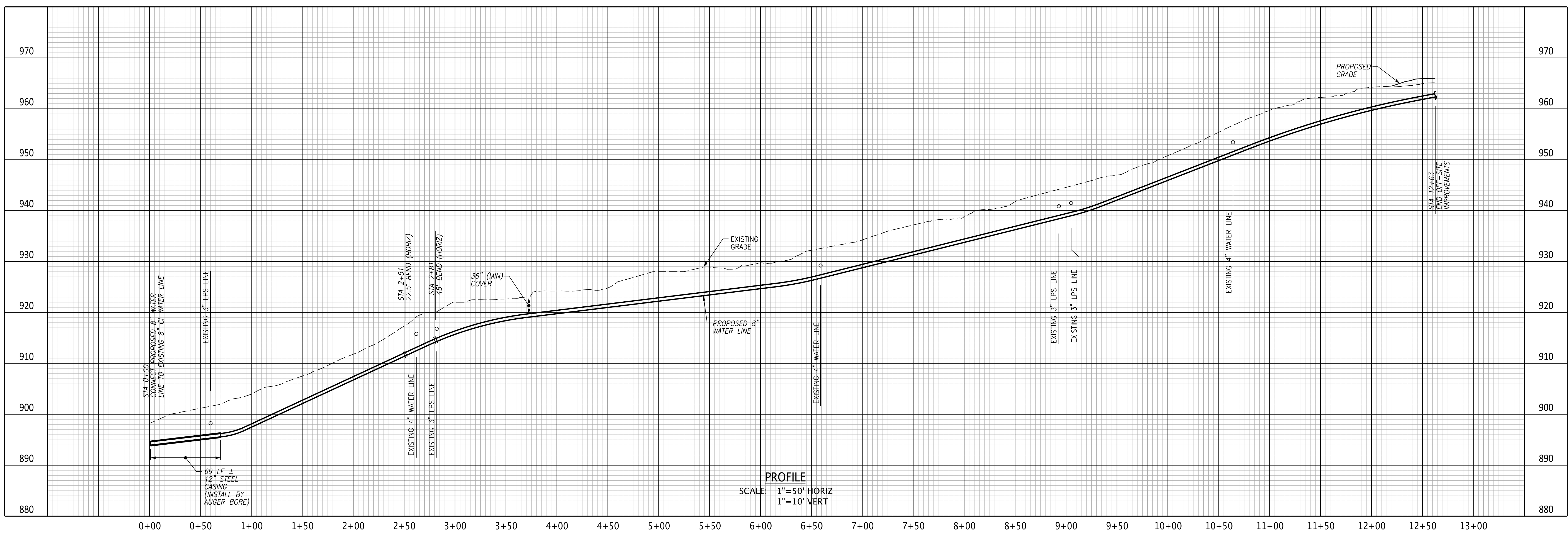
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- UTILITY OWNERS**
- WATER & SEWER**
 KNOX CHAPMAN UTILITY DISTRICT
 CONTACT: MR. RYAN BLAKE, P.E.
 W.K. DICKSON & COMPANY, INC.
 2035 LAKESIDE CENTRE WAY, SUITE 180
 KNOXVILLE, TN 37922
 PHONE: 865.270.3310
 - ELECTRIC & GAS**
 KNOXVILLE UTILITIES BOARD (KUB)
 4505 MIDDLEBROOK PIKE
 KNOXVILLE, TN 37922
 CONTACT: MR. TIM BRANSON
 OFFICE PHONE: 865.558.2552
 - TELEPHONE**
 AT&T
 9733 PARKSIDE DRIVE
 KNOXVILLE, TN 37922
 CONTACT: MR. ROBERT KNIGHT
 OFFICE PHONE: 865.456.5736



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WATER PLAN AND PROFILE



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 DATE: 06/06/2023

C5.01

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WATER NOTES:

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH KCUOD'S STANDARD SPECIFICATIONS. IF CONFLICTS ARISE DURING CONSTRUCTION, CONSULT WITH KCUOD'S INSPECTOR AS TO NECESSARY FIELD CHANGES. KCUOD RESERVES THE RIGHT TO MODIFY THE MATERIAL OR CONSTRUCTION REQUIREMENTS IF SUCH CONFLICTS ARISE.
2. THE LOCATIONS OF THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. CONTRACTOR TO REFERENCE PLANS AND COORDINATE WITH THE UTILITY OWNER TO DETERMINE THE ACTUAL FIELD LOCATION. UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE CALL SYSTEM, AT 1-800-351-1111.
3. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS TO NOTIFY THEM OF WORK IN THE AREA AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY. NOTIFICATION SHALL BE GIVEN AT LEAST THREE BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.
4. PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD THE EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT. FURNISH ANY SPECIAL EQUIPMENT REQUIRED TO WORK OVER AND AROUND THE UTILITIES.
5. KCUOD REQUIRES 24 INCHES OF HORIZONTAL SEPARATION AND 12 INCHES OF VERTICAL SEPARATION FROM OTHER UTILITIES IF THEY ARE INSTALLED ALONGSIDE THE WATER MAINS AND THEY SHOULD NOT BE CONSTRUCTED IN THE SAME TRENCH.
6. HORIZONTAL SEPARATION BETWEEN WATER AND SANITARY SEWER LINES SHALL BE 10 LINEAR FEET. IF 10 LINEAR FEET OF SEPARATION IS NOT AVAILABLE, THE SEWER SHALL BE INSTALLED UNDERNEATH THE WATER LINE WITH A MINIMUM OF 18 INCHES OF SEPARATION BETWEEN THE OUTSIDES OF THE PIPES. IF CONFLICTS ARISE, CONSULT WITH KCUOD INSPECTOR BEFORE PROCEEDING FURTHER.
7. NO BUILDINGS, BUILDING FOOTINGS, OR OTHER PERMANENT STRUCTURES ARE TO BE CONSTRUCTED WITHIN THE 15 FOOT UTILITY EASEMENTS (7.5 FT. EA. SIDE OF INSTALLED LINE).
8. TRENCH DESIGN AND SAFETY FOR PIPELINE CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM WITH ALL APPLICABLE LOCAL, STATE, AND OSHA REGULATIONS.
9. THE STONE BEDDING AND BACK FILL SHALL BE DONE IN STRICT COMPLIANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS, BUT MUST COMPLY WITH KCUOD'S SPECIFICATIONS.
10. UTILITIES SHALL BE INSTALLED AFTER GRADING IS COMPLETED AND APPROVED AND BEFORE ANY PAVEMENT IS INSTALLED.
11. ALL WATER LINES AND APPURTENANCES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH KCUOD'S STANDARD WATER SYSTEM SPECIFICATIONS.
12. ALL WORK MUST BE INSPECTED BY KCUOD PRIOR TO BACKFILLING.
13. WATER LINE MATERIALS, INSTALLATION, AND TESTING SHALL BE PER KCUOD'S STANDARDS. MATERIAL SUBMITTALS SHALL BE MADE TO KCUOD ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION AT 2025 LAKESIDE CENTRE WAY, SUITE 180, KNOXVILLE, TN 37922. OFFICE: (865)270-3310.
14. DISINFECTION AND STERILIZATION SHALL BE COMPLETED BY CONTRACTOR WHEN INSTALLATION AND TESTING ARE COMPLETE. TAPS FOR STERILIZATION SHALL BE PROVIDED BY THE CONTRACTOR. WATER QUALITY TESTING WILL BE PERFORMED BY KCUOD.
15. ALL WATER LINES SHALL HAVE A MINIMUM OF 36 INCHES COVER. BACKFILL WITH STONE TO GRADE REQUIRED UNDER ALL PROPOSED ROADWAYS.

16. ALL WATER LINES 4 INCHES OR LARGER SHALL BE CLASS 350 DIP OR C900 PVC. ALL FITTINGS SHALL BE APPROPRIATE FOR THE CLASS AND TYPE OF PIPE BEING JOINED.
17. ALL 2 INCH WATER LINES SHALL BE PVC (SDR 13.5-315 PS) OR TYPE K COPPER. COORDINATE WITH KCUOD ON DESIRED MATERIAL BASED ON THE APPLICATION. ALL FITTINGS SHALL BE APPROPRIATE FOR THE CLASS AND TYPE OF PIPE BEING JOINED.
18. AIR RELEASE VALVES (A.R.I. 0-40 OR EQUAL) SHALL BE INSTALLED ON HIGH POINTS ON THE MAINS IN ACCORDANCE WITH THE PLANS OR AS REQUIRED BY KCUOD'S INSPECTOR.
19. TO THE GREATEST EXTENT POSSIBLE, DO NOT LOCATE WATER METERS OR SERVICES AT THE SAME PROPERTY CORNERS AS ELECTRICAL TRANSFORMERS OR CATV/TELEPHONE PEDESTALS.

WATER NOTES (CONT.):

20. ALL WATER MAINS, INCLUDING DIP, SHALL BE INSTALLED WITH BLUE NO. 10 SOLID COPPER INSULATED WIRE THROUGHOUT THE ENTIRE SYSTEM, INCLUDING SERVICE LATERALS TO THE METER BOX. WIRE SHALL BE INSTALLED DIRECTLY ON TOP OF THE WATER MAIN. KEEP WIRE AS CONTINUOUS AS POSSIBLE. WHERE CONNECTIONS ARE NEEDED, STRIP WIRE BACK APPROX. 1 INCH AND CONNECT WITH SPLIT-BOLT CONNECTORS. WRAP CONNECTIONS WELL ON EACH SIDE OF CONNECTION WITH ELECTRICAL TAPE. WHEN INSTALLATION IS COMPLETE, THE ENTIRE SYSTEM MUST BE TESTED FOR CONTINUITY IN THE PRESENCE OF A KCUOD INSPECTOR. KCUOD WILL REQUIRE RE-EXCAVATION AND IMPROVEMENT TO AREAS THAT DO NOT "TRACE" WELL AND SHOW LOW OR POOR CONTINUITY.
21. BLOW-OFFS SHALL BE INSTALLED ON ENDS OF MAINS. FROM THE END OF THE MAIN BACK THROUGH THE FIRST THREE FULL LENGTH JOINTS OF PIPE SHALL BE INSTALLED FULLY RESTRAINED USING RESTRAINING GASKETS "FAST GRIP," FIELD LOK 350" OR EQUAL. MECHANICAL RESTRAINT AS APPROVED BY KCUOD INSPECTOR.
22. WATER MAINS REQUIRE CONCRETE THRUST BLOCKING AND MEGALUG MECHANICAL JOINT RESTRAINT AT ALL CHANGES IN DIRECTION REQUIRING BENDS, TEES, PLUGS, AND FIRE HYDRANTS. FIELD-LOK GASKETS MUST BE INSTALLED FOR AT LEAST 2 PIPE JOINTS ON EACH SIDE OF FITTINGS. ALL VALVES SHALL BE INSTALLED WITH MEGALUG MECHANICAL JOINT RESTRAINTS. WRAP ALL FITTINGS, BOLTS, FLANGES, ETC. IN 6 MIL PLASTIC PRIOR TO PLACING CONCRETE. HYDRANT TEES AND SWIVEL-X COUPLINGS SHALL BE USED FOR HYDRANTS.
23. WHERE MEGALUGS ARE SPECIFIED, THEY SHALL BE MANUFACTURED BY EBAA IRON INC. OR APPROVED EQUAL BY KCUOD.
24. DEVELOPER/OWNER SHALL INSTALL ALL METER YOKES AND BOXES AND PROVIDE MATERIAL PER KCUOD STANDARD SPECIFICATIONS. METER BOXES SHALL BE AT THE PROPERTY LINE (NO MORE THAN 2 FEET +/- INSIDE PROPERTY). ALL VALVE BOXES TO BE INSTALLED OUTSIDE OF PAVED AREAS WITH BOX LOK'S.
25. SINGLE WATER SERVICES SHALL BE 3/4-INCH TYPE K COPPER AND DOUBLE WATER SERVICES SHALL BE 1-INCH TYPE K COPPER. ALL METERS SHALL HAVE 3/4-INCH CURB STOP INSIDE METER BOX BEFORE YOKE.
26. LONG SIDE LATERALS MUST BE WRAPPED WITH POLY C WRAPPING.
27. ALL METER BOX LIDS SHALL BE CAST IRON APPROVED BY KCUOD INSPECTOR.
28. ALL METER YOKES SHALL BE FORD 3/4-INCH COPPERSETTER 70 SERIES OR MUELLER B2404-R-2 OR APPROVED EQUAL.
29. FIRE, IRRIGATION, AND COMMERCIAL LINES MUST BE BACKFLOW PROTECTED PER KCUOD POLICY. COORDINATE WITH KCUOD.
30. ALL FIRE HYDRANTS SHALL BE ROTATED TO FACE CLOSEST POINT OF PAVED ACCESS AND MUST HAVE AN ISOLATION GATE VALVE INSTALLED ON HYDRANT LATERAL.
31. WATER SERVICES SHOWN ON THESE DRAWINGS ARE FOR GENERAL LOCATION ONLY. CONTRACTOR TO REFERENCE PLUMBING PLANS AND COORDINATE WITH THE UTILITY OWNER TO DETERMINE THE ACTUAL FIELD LOCATION OF WATER METERS AND WATER SERVICE LINES.
32. INSTALL FITTINGS AS REQUIRED TO AVOID CONFLICTS WITH EXISTING AND PROPOSED UNDERGROUND CONFLICTS AND OBSTRUCTIONS.
33. INSTALL WATER LINES AT A POSITIVE GRADE BETWEEN DESIGNATED HIGH AND LOW POINTS TO PREVENT TRAPPING OF AIR.
34. CONTRACTOR SHALL TAKE SPECIAL CARE TO BED, BACKFILL, AND COMPACT PIPE CROSSINGS WHERE A WATER MAIN CROSSES WITH STORM SEWERS. CROSSING SHALL BE CONSTRUCTED WITH A WELL COMPACTED FULL STONE 6-INCH ENVELOPE SUCH THAT STORM SEWER DOES NOT BEAR DIRECTLY ON WATER MAINS.
35. ALL FIRE HYDRANTS SHALL BE FACTORY PAINTED YELLOW.
36. ALL FIRE HYDRANT BARRELS SHALL BE 5.25 INCHES.

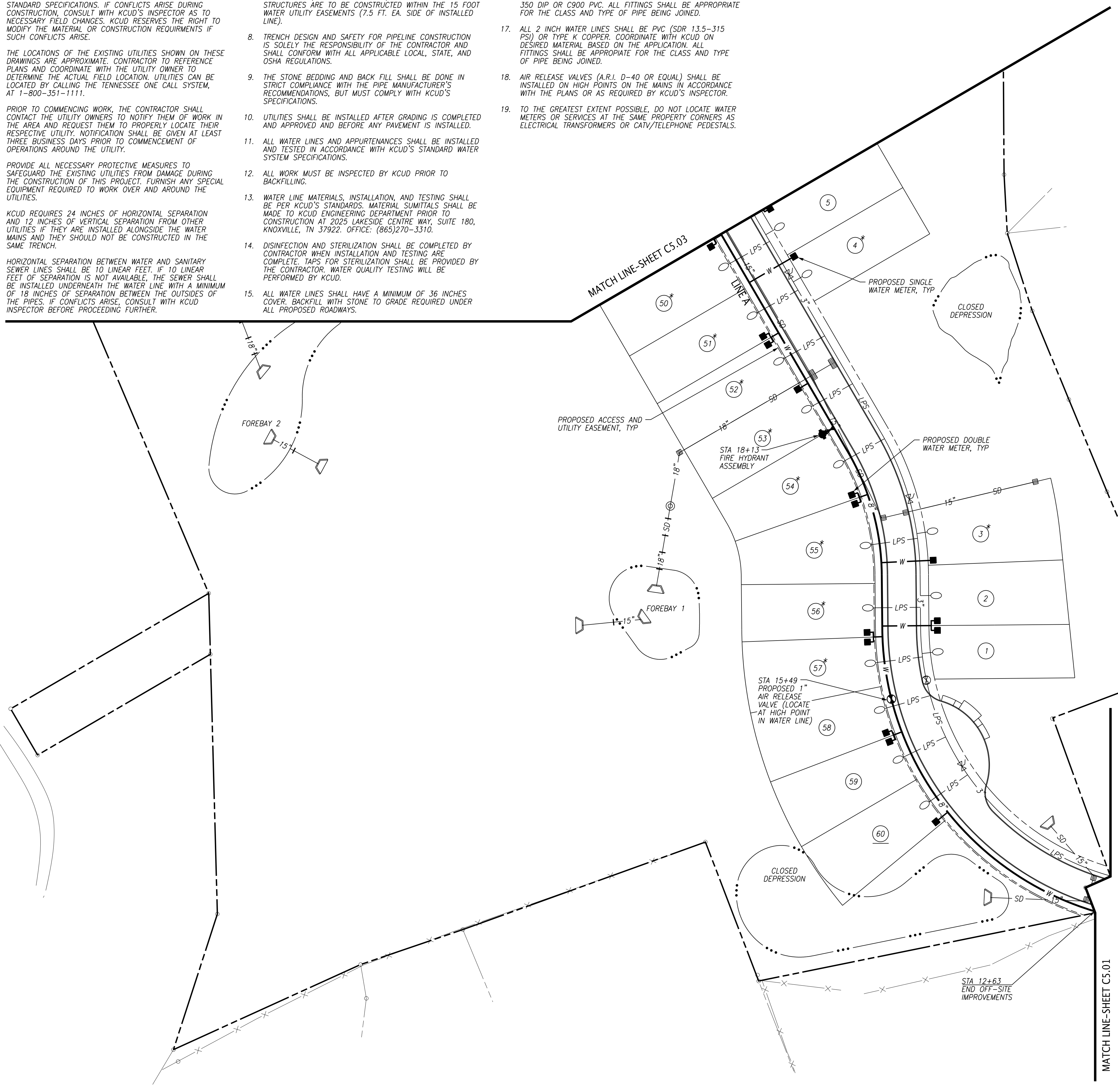
UTILITY OWNERS

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- LEGEND:**
- W — PROPOSED WATER LINE
 - - - - - PROPOSED EASEMENT
 - PROPOSED WATER METER
 - ⊕ PROPOSED FIRE HYDRANT ASSEMBLY
 - ⊙ PROPOSED WATER VALVE
 - ⊙ PROPOSED AIR RELEASE VALVE
 - ⊙ PROPOSED BLOW-OFF VALVE
 - TYP TYPICAL



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 0 SEVIERVILLE PIKE
 KNOXVILLE, TN, 37920

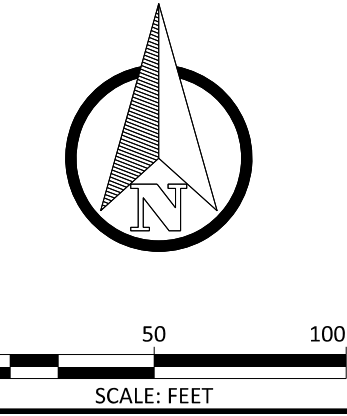
WATER PLAN

JOB NO: 669.003
 DATE: 06/06/2023

C5.02

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NOTES:
 1. REFER TO SHEET C5.02 FOR WATER NOTES.



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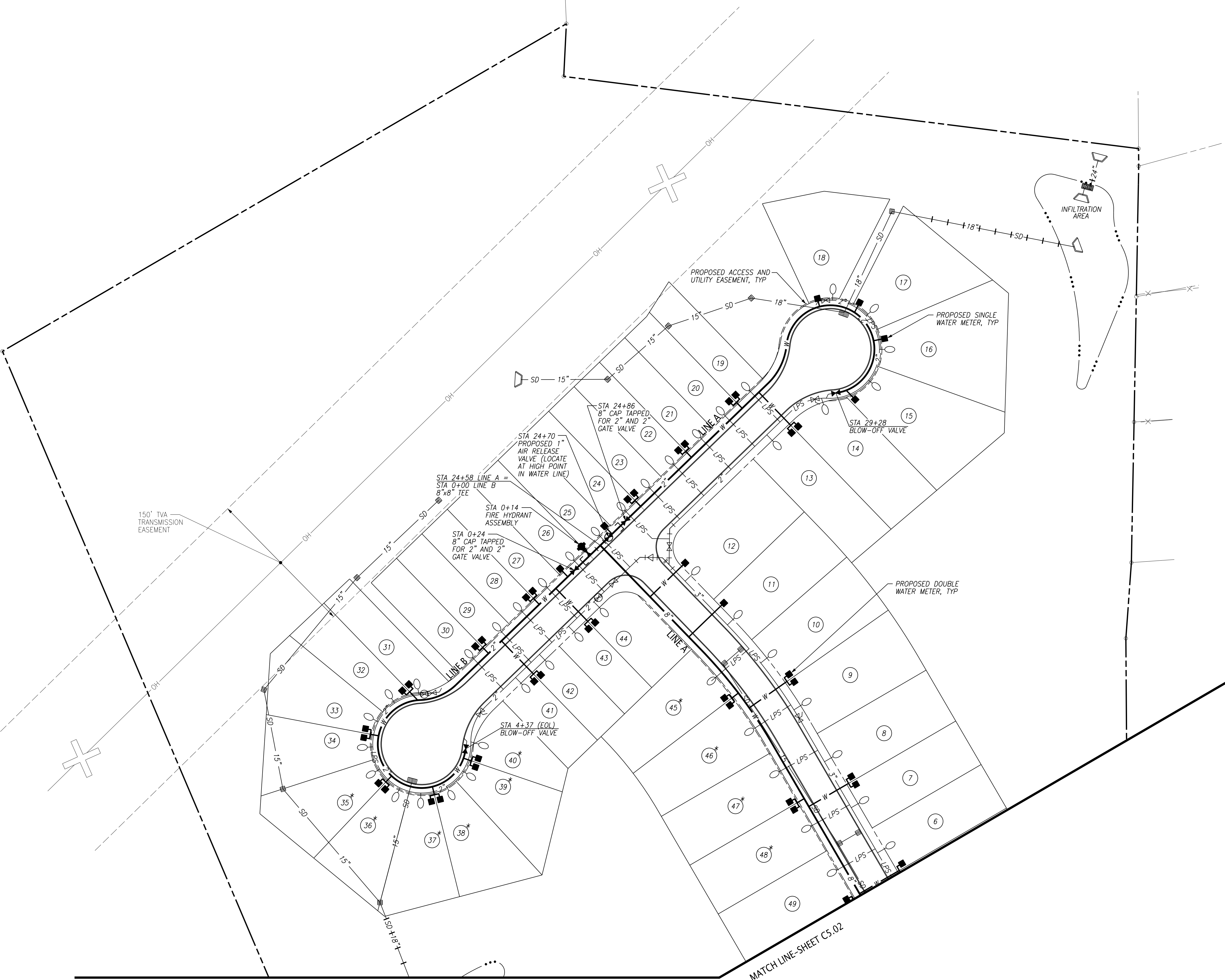
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GONDOLA DRIVE SUBDIVISION
0 SEVIERVILLE PIKE
KNOXVILLE, TN, 37920
WATER PLAN



JOB NO: 669.003
 DATE: 06/06/2023

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 IFC
 06/06/2023



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 Plot Date: 6/6/2023

SANITARY SEWER NOTES:

- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH KCUD'S STANDARD SPECIFICATIONS. IF CONFLICTS ARISE DURING CONSTRUCTION, CONSULT WITH KCUD'S INSPECTOR AS TO NECESSARY FIELD CHANGES. KCUD RESERVES THE RIGHT TO MODIFY THE MATERIAL OR CONSTRUCTION REQUIREMENTS IF SUCH CONFLICTS ARISE.
- THE LOCATIONS OF THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. CONTRACTOR TO REFERENCE PLANS AND COORDINATE WITH UTILITY OWNER TO DETERMINE THE ACTUAL FIELD LOCATION. UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE CALL SYSTEM, AT 1-800-351-1111.
- PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS TO NOTIFY THEM OF WORK IN THE AREA AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY. NOTIFICATION SHALL BE GIVEN AT LEAST THREE BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.
- PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD THE EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT. FURNISH ANY SPECIAL EQUIPMENT REQUIRED TO WORK OVER AND AROUND THE UTILITIES.
- KCUD REQUIRES 24 INCHES OF HORIZONTAL SEPARATION AND 12 INCHES OF VERTICAL SEPARATION FROM OTHER UTILITIES IF THEY ARE INSTALLED ALONGSIDE THE SEWER MAINS, AND THEY SHOULD NOT BE CONSTRUCTED IN SAME TRENCH, IF ADEQUATE SEPARATION IS NOT AVAILABLE, SEE NOTE 1.
- HORIZONTAL SEPARATION BETWEEN WATER AND SANITARY SEWER LINES SHALL BE 10 LINEAR FEET. IF 10 LINEAR FEET OF SEPARATION IS NOT AVAILABLE, THE SEWER SHALL BE INSTALLED UNDERNEATH THE WATER LINE WITH A MINIMUM OF 18 INCHES OF SEPARATION BETWEEN THE OUTSIDES OF THE PIPES. IF CONFLICTS ARISE, CONSULT WITH KCUD INSPECTOR BEFORE PROCEEDING FURTHER.
- NO BUILDINGS, BUILDING FOOTINGS, OR OTHER PERMANENT STRUCTURES ARE TO BE CONSTRUCTED WITHIN THE 15 FOOT UTILITY EASEMENTS (7.5 FEET EACH SIDE OF INSTALLED LINE).
- TRENCH DESIGN AND SAFETY FOR PIPELINE CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM WITH ALL APPLICABLE LOCAL, STATE, AND OSHA REGULATIONS.
- THE STONE BEDDING AND BACKFILL SHALL BE DONE IN STRICT COMPLIANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS, BUT MUST COMPLY WITH KCUD'S SPECIFICATIONS.
- UTILITIES SHALL BE INSTALLED AFTER GRADING IS COMPLETED AND APPROVED AND BEFORE ANY PAVEMENT IS INSTALLED.
- CONTRACTOR SHALL TAKE SPECIAL CARE TO BED, BACKFILL, AND COMPACT PIPE CROSSINGS WHERE A SANITARY SEWER MAIN CROSSES WITH STORM SEWERS. CROSSING SHALL BE CONSTRUCTED WITH A WELL COMPACTED FULL STONE (#57) 6-INCH ENVELOPE SUCH THAT STORM SEWER DOES NOT BEAR DIRECTLY ON SANITARY SEWER MAINS.
- ALL SANITARY SEWER LINES AND APPURTENANCES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH KCUD'S STANDARD SEWER SYSTEM SPECIFICATIONS.
- ALL WORK MUST BE INSPECTED BY KCUD PRIOR TO BACKFILLING.
- ALL LOW PRESSURE FORCE MAIN SEWER LINES SHALL BE PE4710 SDR11 HIGH DENSITY POLYETHYLENE (HDPE) AND SHALL BE INSTALLED WITH NO. 10 SOLID COPPER INSULATED WIRE THROUGHOUT.
- INSTALL FITTINGS (FOR SERVICE LATERALS) AS REQUIRED TO AVOID CONFLICTS WITH EXISTING AND PROPOSED UNDERGROUND CONFLICTS AND OBSTRUCTIONS.
- SERVICE JUNCTION BOX SYMBOLS SHOWN ON THE PLAN ARE NOT TO SCALE AND ARE SHOWN FOR GENERAL LOCATION ONLY. ACTUAL LOCATIONS FOR SERVICE JUNCTION BOXES SHALL BE FIELD LOCATED BY CONTRACTOR AND COORDINATED WITH KCUD, AND SHALL BE LOCATED OUTSIDE OF THE PROPOSED DRIVEWAYS, A MINIMUM OF 10 FEET FROM WATER METERS, AND JUST PAST THE RIGHT-OF-WAY LINE ON THE PROPERTY OWNER'S SIDE.
- ALL SANITARY SEWER LINES SHALL HAVE A MINIMUM OF 36 INCHES COVER UNDER ROADWAYS AND CROSSINGS. SEWER SHALL HAVE A MINIMUM OF 48 INCHES COVER AND IF 48 INCHES IS NOT AVAILABLE, THEN DUCTILE IRON PIPE MUST BE USED, PROTECTO 401 LINED CLASS 350 (MN).
- PIPE IS MEASURED IN TERMS OF HORIZONTAL LENGTH COMPLETE IN PLACE, REGARDLESS OF TYPE, DEPTH, CLASS, SHAPE, AND SIZE AS MEASURED ALONG THE CENTERLINE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE (NO DEDUCTIONS FOR STRUCTURES). ACTUAL QUANTITY OF PIPE MAY VARY. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE NECESSARY QUANTITY OF PIPE TO CONSTRUCT THE COMPLETE SYSTEM AS SHOWN. INSTALLATION INCLUDES EXCAVATION, SHORING, FURNISHINGS, AND INSTALLATION OF PIPES, JOINT MATERIALS, COUPLINGS, AND BACKFILL.
- ADJUST TOP OF CASTING (TC) ELEVATIONS (ALL SIDES) FLUSH WITH FINAL GRADES TO MATCH CROSS SLOPES AND LONGITUDINAL SLOPES.



UTILITY OWNERS

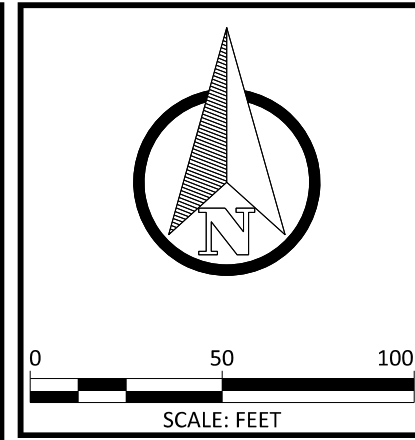
WATER & SEWER
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LEGEND:

- LPS — EXISTING LOW PRESSURE SEWER
- LPS — PROPOSED LOW PRESSURE SEWER
- ⊕ PROPOSED EOL FLUSHING CONNECTION
- ⊕ PROPOSED IN-LINE FLUSHING CONNECTION
- PROPOSED LPS SERVICE BOX
- TYP TYPICAL



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SANITARY SEWER PLAN



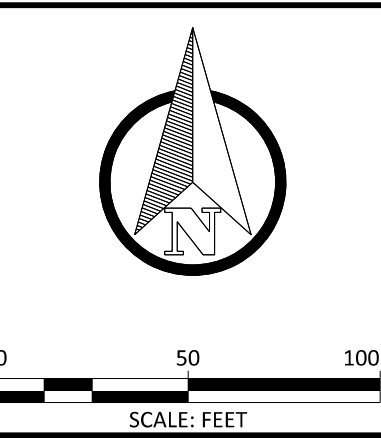
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 06/06/2023

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NOTES:
 1. REFER TO SHEET C6.01 FOR SANITARY SEWER NOTES.



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SANITARY SEWER PLAN

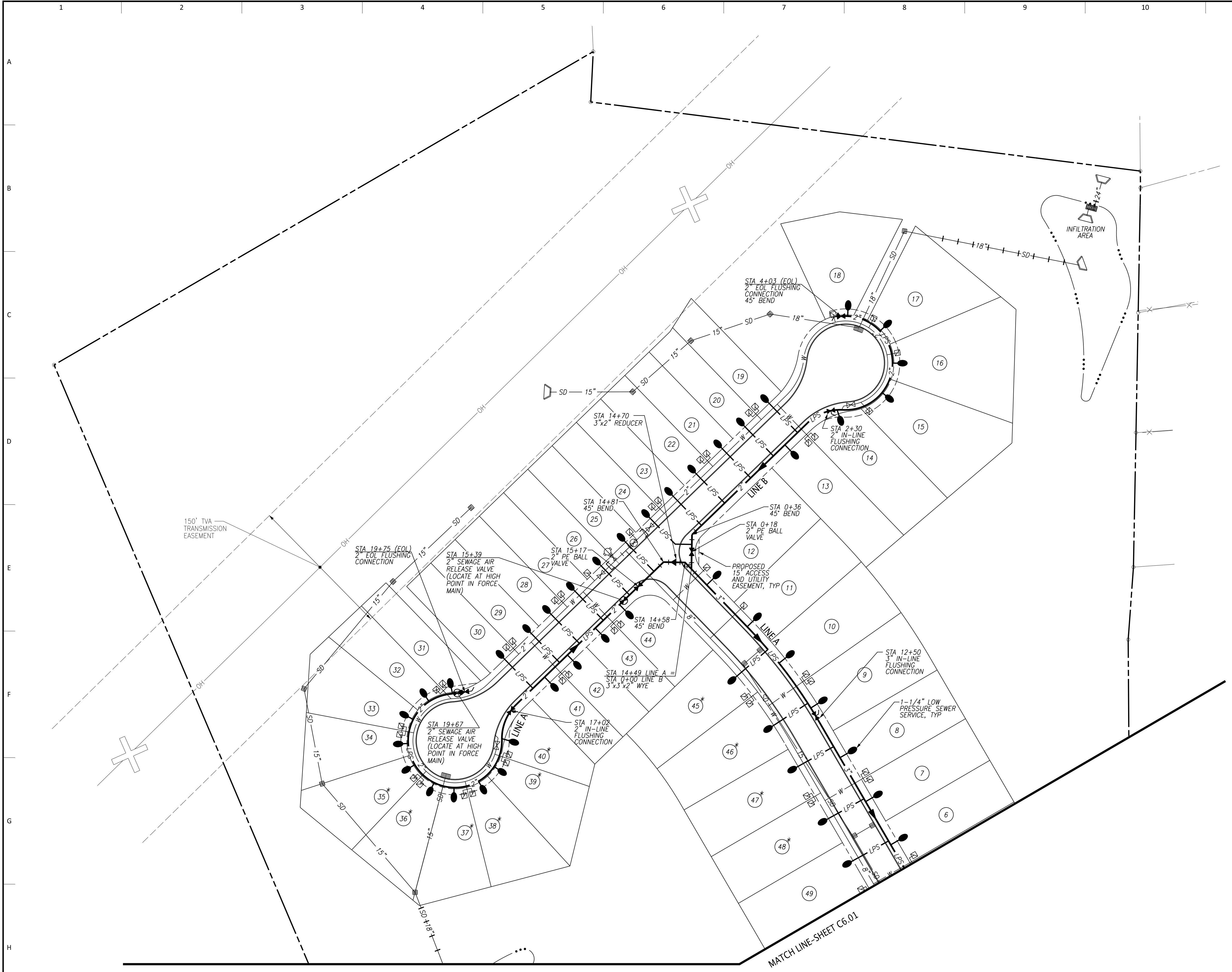


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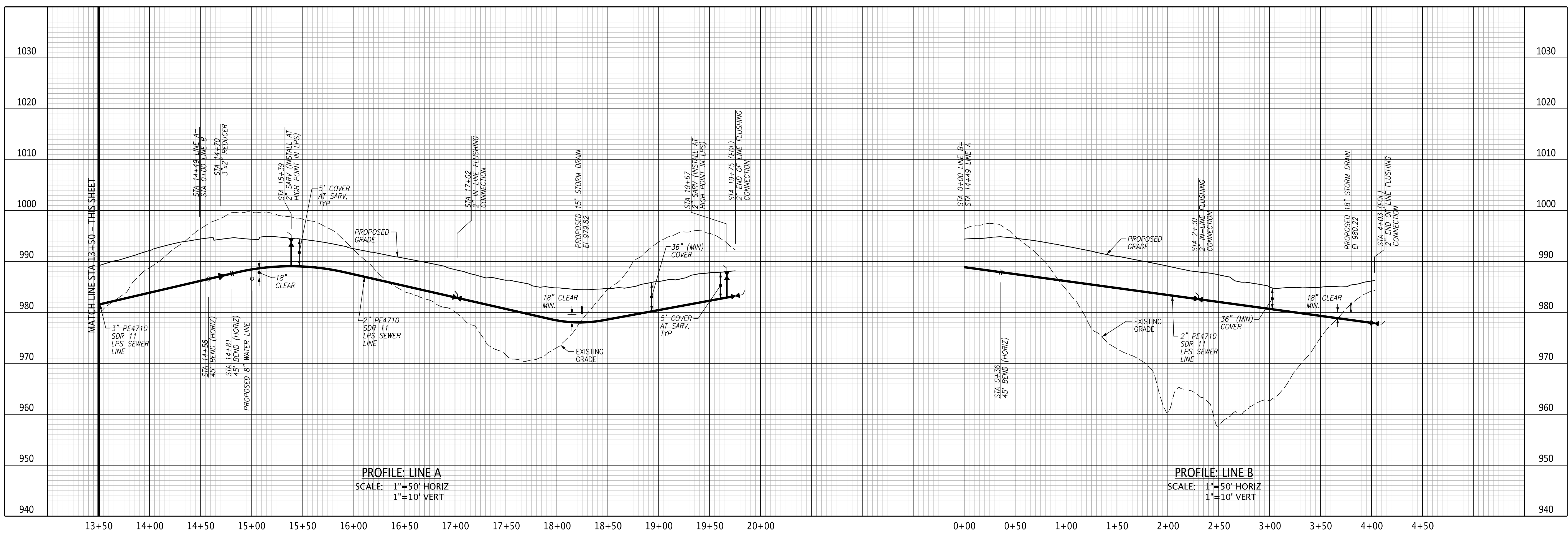
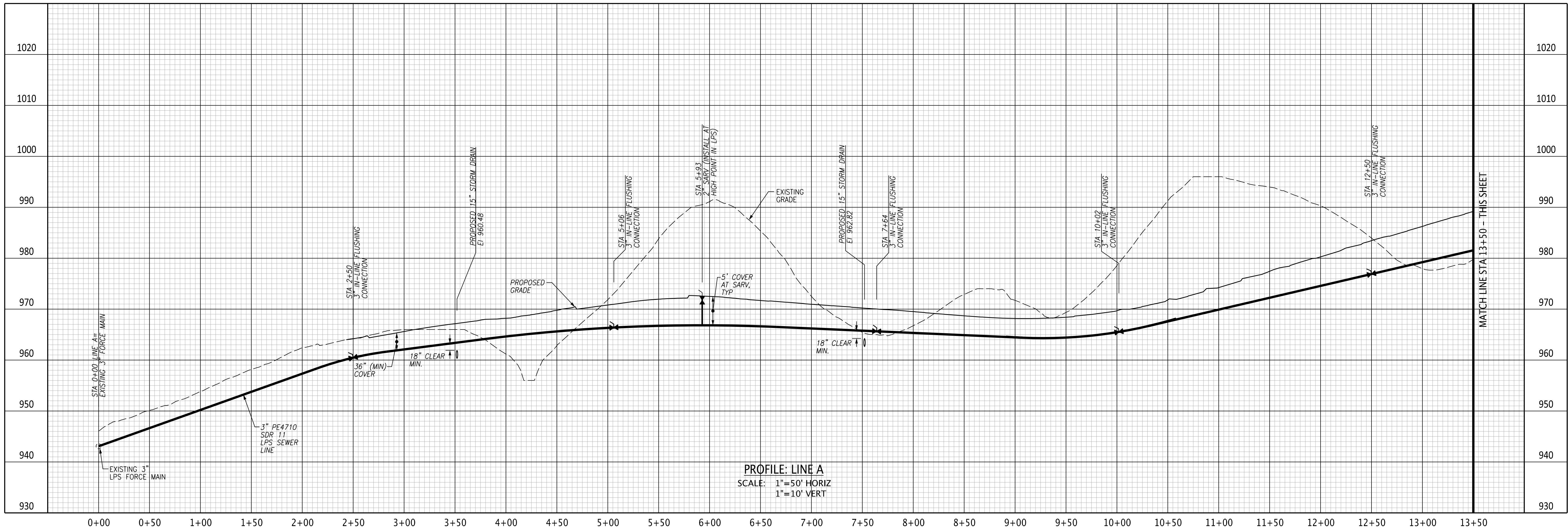
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LEGEND:
 LPS PROPOSED LOW PRESSURE SEWER
 PROPOSED EOL FLUSHING CONNECTION
 PROPOSED IN-LINE FLUSHING CONNECTION
 PROPOSED LPS SERVICE BOX
 TYPICAL



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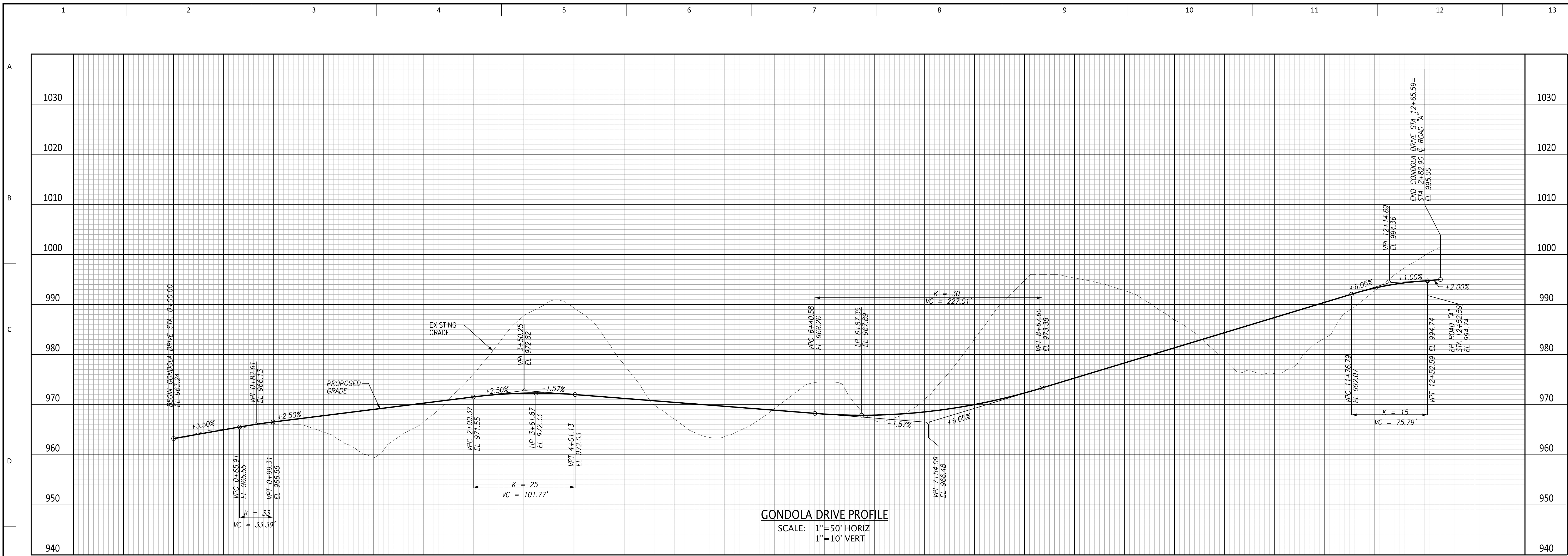
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SANITARY SEWER PROFILES



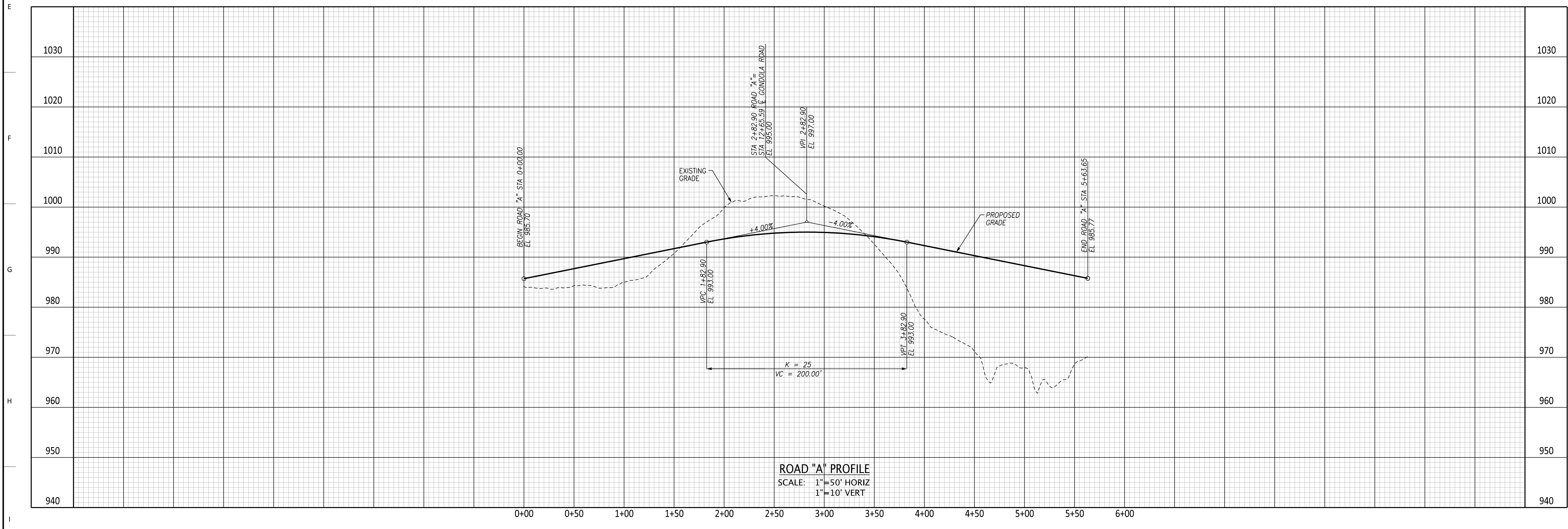
JOB NO: 669.003
 DATE: 06/06/2023

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 06/06/2023



GONDOLA DRIVE PROFILE
 SCALE: 1"=50' HORIZ
 1"=10' VERT



ROAD "A" PROFILE
 SCALE: 1"=50' HORIZ
 1"=10' VERT



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ROAD PROFILES

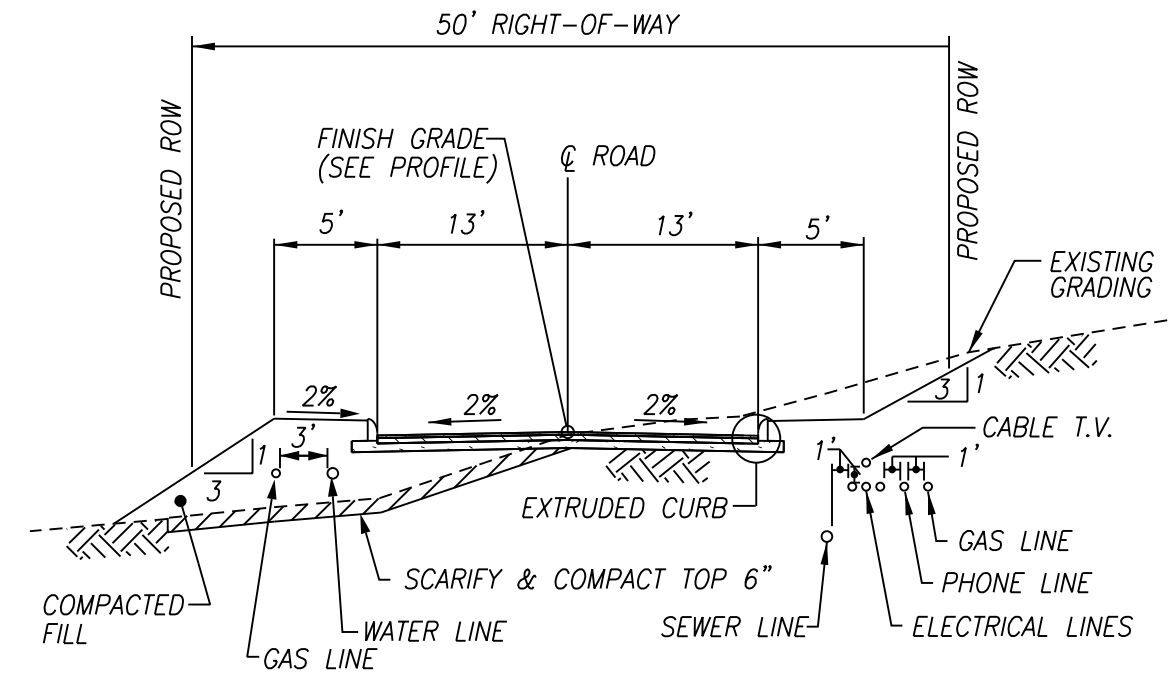


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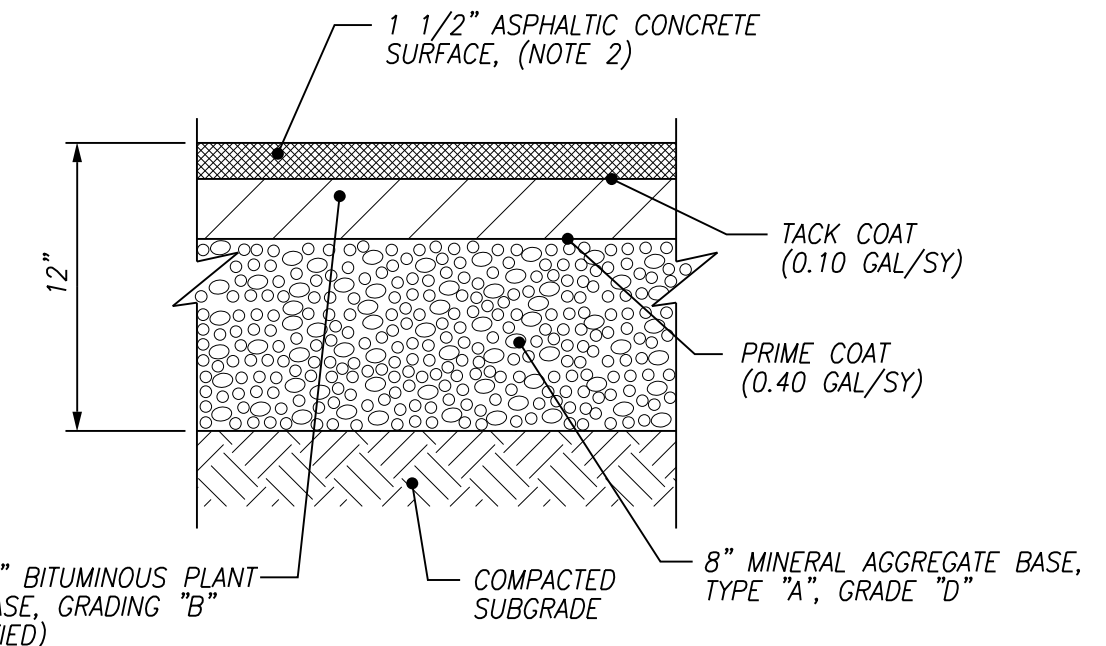
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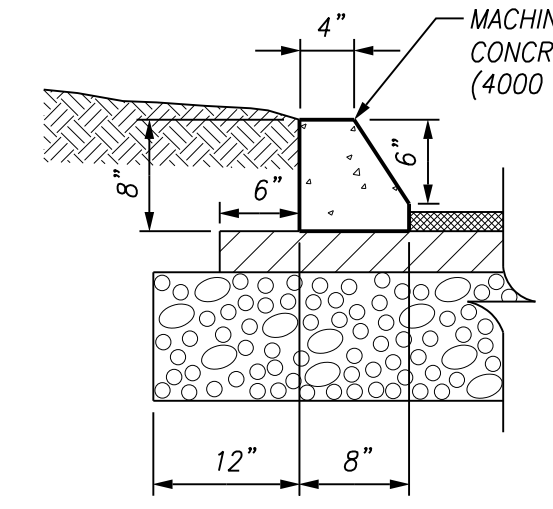
NOTE:
1. UTILITY LOCATIONS MAY VARY. REFERENCE UTILITY PLANS FOR LOCATIONS

1 TYPICAL 26' ROAD SECTION
C9.01 NTS



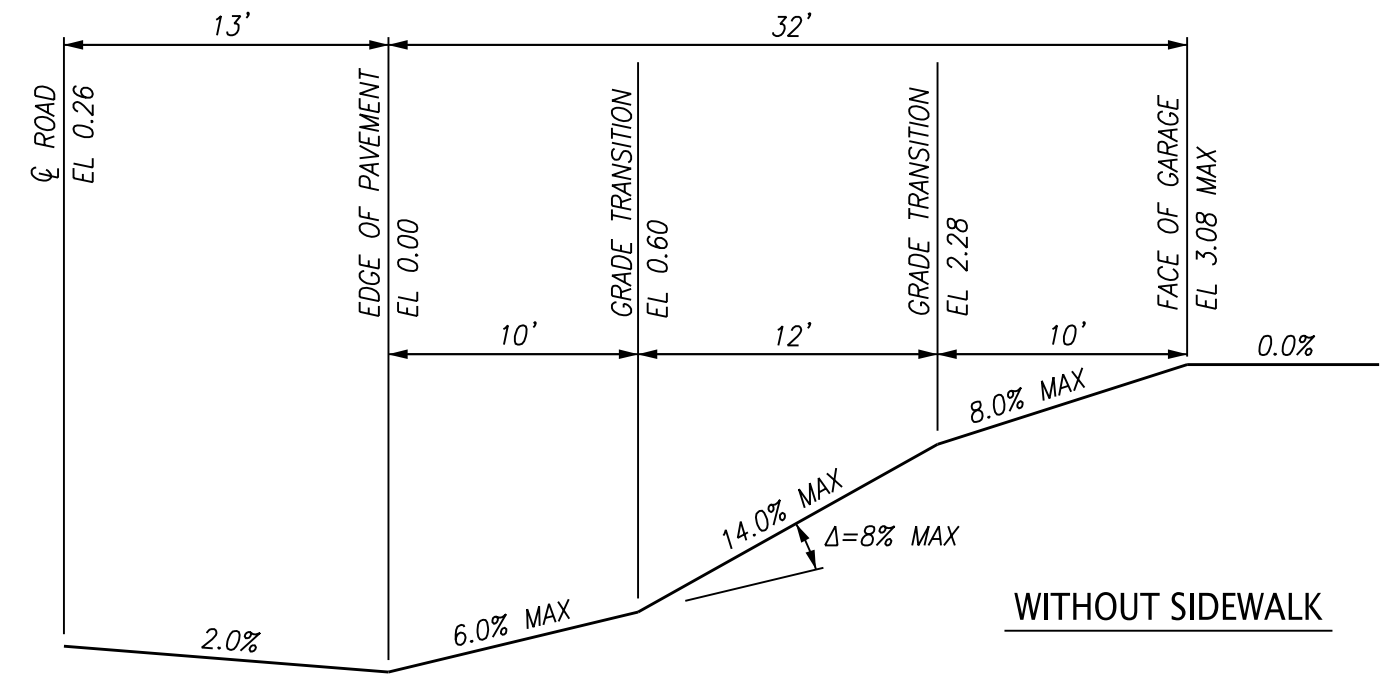
NOTES:
1. PAVEMENT HAS NOT BEEN DESIGNED FOR CONSTRUCTION TRAFFIC/ACTIVITIES. USE OF THESE SURFACES FOR CONSTRUCTION ACTIVITIES SHALL BE DONE AT THE CONTRACTOR'S CONVENIENCE AND RISK. DAMAGE TO PAVEMENT RESULTING FROM THESE ACTIVITIES SHALL BE REPAIRED IN CONFORMANCE WITH THE INITIAL PAVEMENT SPECIFICATIONS.
2. ASPHALTIC CONCRETE SURFACE COURSE SHALL BE GRADE "E" MIX FOR ROADS WITH A SLOPE LESS THAN OR EQUAL TO 10%; FOR SLOPES GREATER, USE GRADE "D" MIX.

2 ASPHALT PAVEMENT SECTION
C9.01 NTS

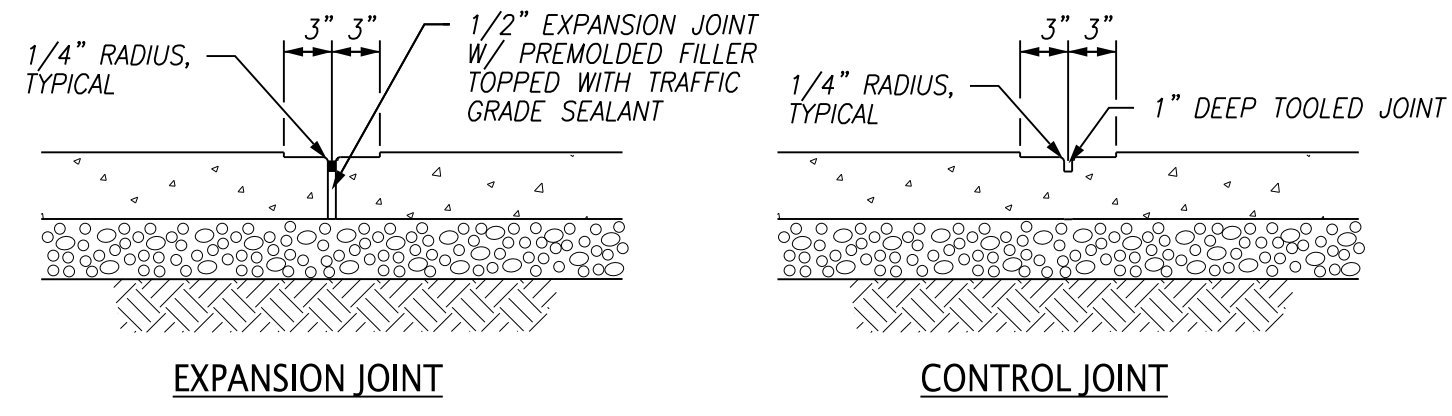


NOTES:
1. PREFORMED 1/2" EXPANSION JOINTS SHALL BE EQUALLY SPACED AT 25' MAXIMUM CENTERS. EQUALLY SPACE 1/4" CONTRACTION JOINTS AT 5' MAXIMUM CENTERS BETWEEN EXPANSION JOINTS.
2. EXPANSION JOINT MATERIAL REQUIRED FOR GRASS MEDIANS.
3. EXACT CURB DIMENSIONS MAY BE ALTERED SLIGHTLY TO FIT STANDARD EXTRUDED CURB MACHINES, BUT SUCH VARIANCES MUST BE APPROVED BY THE ENGINEER.
4. IMMEDIATELY AFTER THE CONCRETE HAS SUFFICIENTLY SET, BACKFILL BEHIND CURBS TO PREVENT PONDING OF SURFACE WATER.

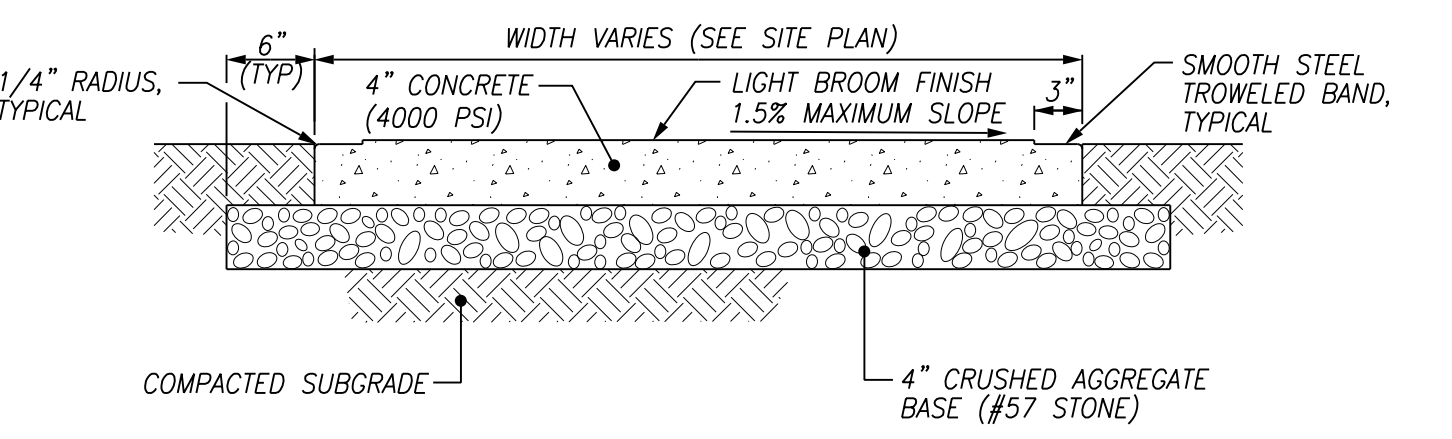
3 EXTRUDED CURB
C9.01 NTS



4 TYPICAL DRIVEWAY PROFILE
C9.01 NTS



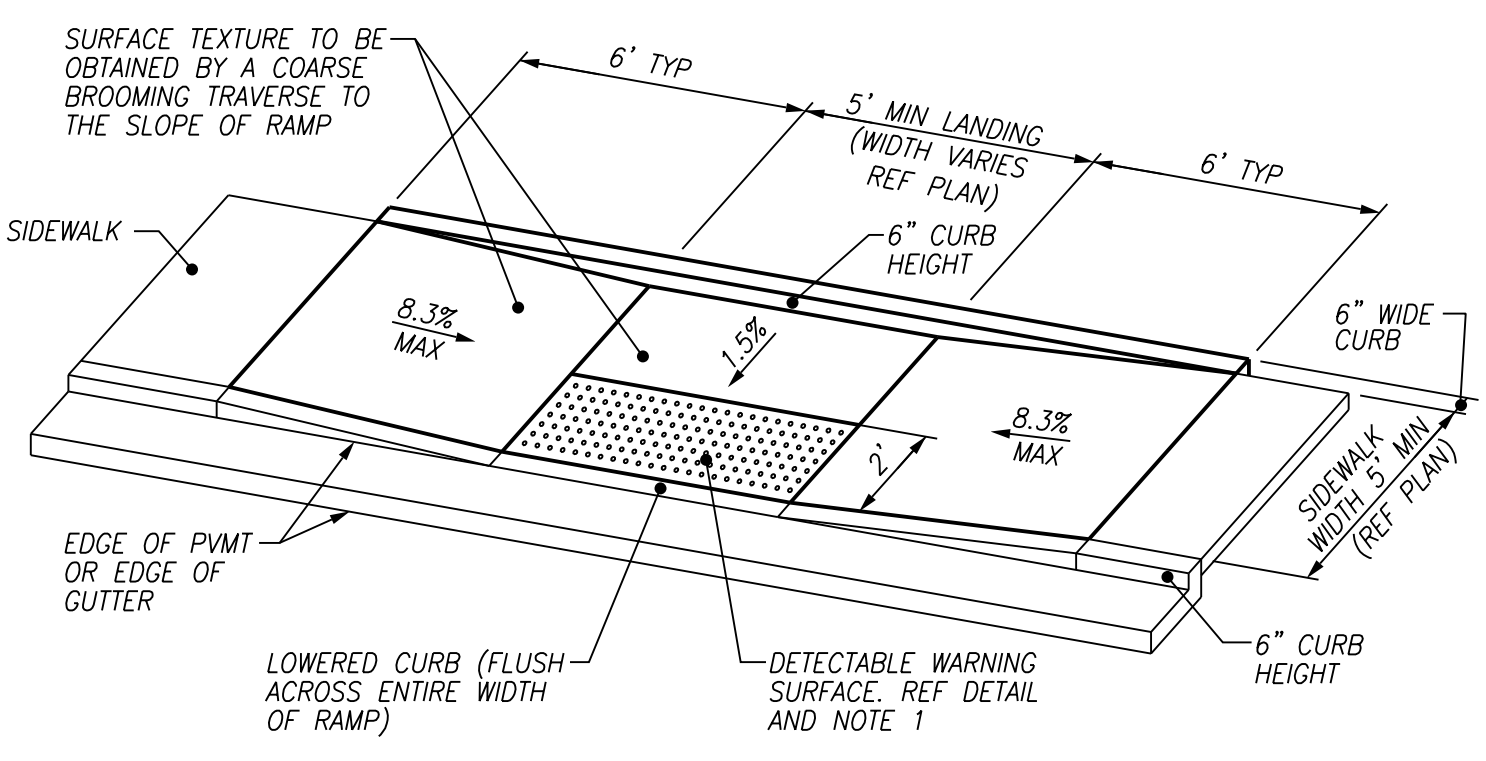
EXPANSION JOINT **CONTROL JOINT**



CROSS-SECTION

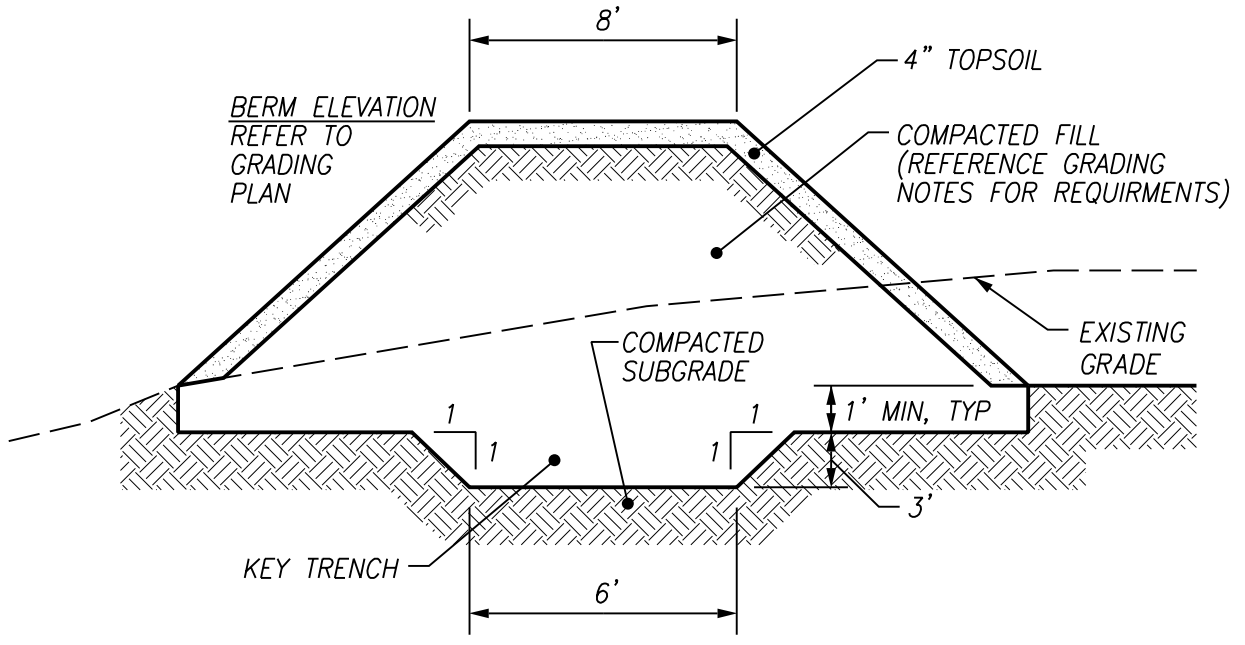
NOTES:
1. PREFORMED EXPANSION JOINTS SHALL BE EQUALLY SPACED AT 20' MAXIMUM CENTERS AND WHERE THE SIDEWALK IS IN CONTACT WITH THE STREET RETURNS, ON BUILDING LINES, AND AT OTHER FIXED OBJECTS, EXPANSION JOINT AT BUILDINGS AND RETAINING WALLS SHALL BE INCREASED TO 1" WIDTH.
2. EQUALLY SPACE CONTRACTION JOINTS AT 5' MAXIMUM CENTERS BETWEEN EXPANSION JOINTS.
3. PROTECT AND CURE CONCRETE WITH AN APPROVED CURING COMPOUND (KURE-N-SEAL BY SONNEBORN OR EQUAL), APPLY ACCORDING TO THE MANUFACTURER'S SPECIFICATION.

5 CONCRETE SIDEWALK
C9.01 NTS



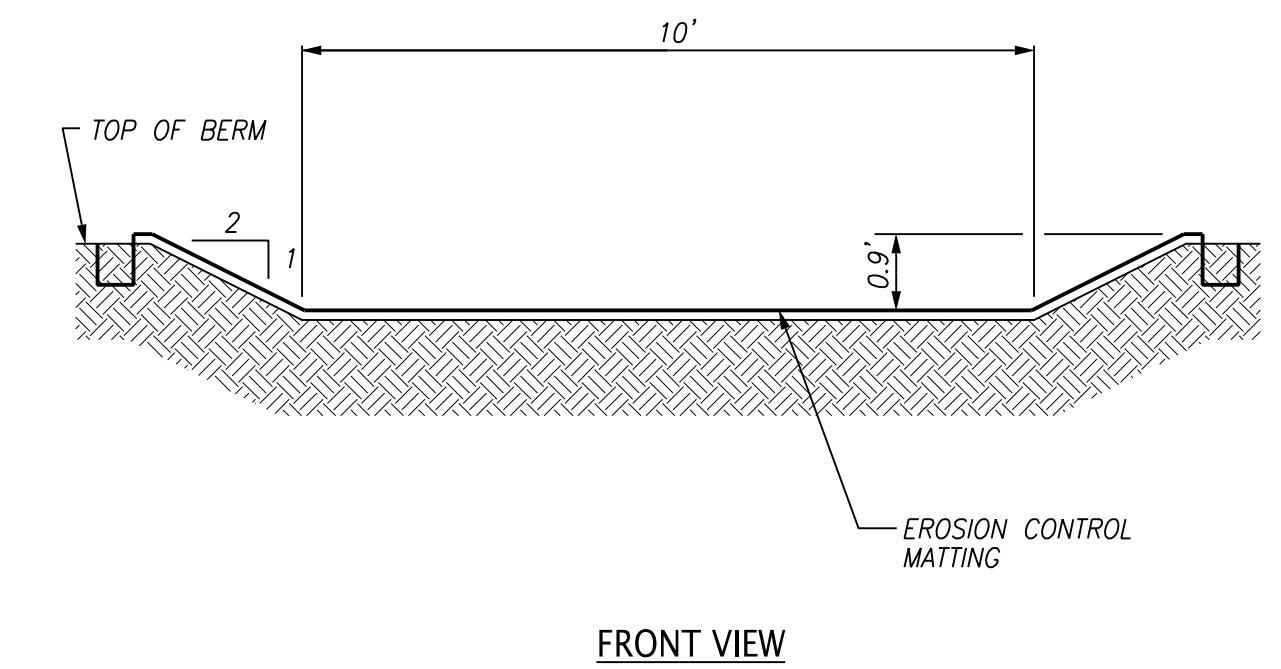
NOTES:
1. DETECTABLE WARNING SHALL BE INSTALLED AT ALL LOCATIONS WHERE RAMP EXITS TO VEHICULAR DRIVE PATH.

6 PARALLEL CURB RAMP
C9.01 NTS



NOTES:
1. CONSTRUCT/INSTALL ANTI-SLEEP COLLARS (REFER TO DETAIL) ON ALL PIPES THAT GO THROUGH THE BERM.
2. NO TRENCH EXCAVATION THROUGH BERM.

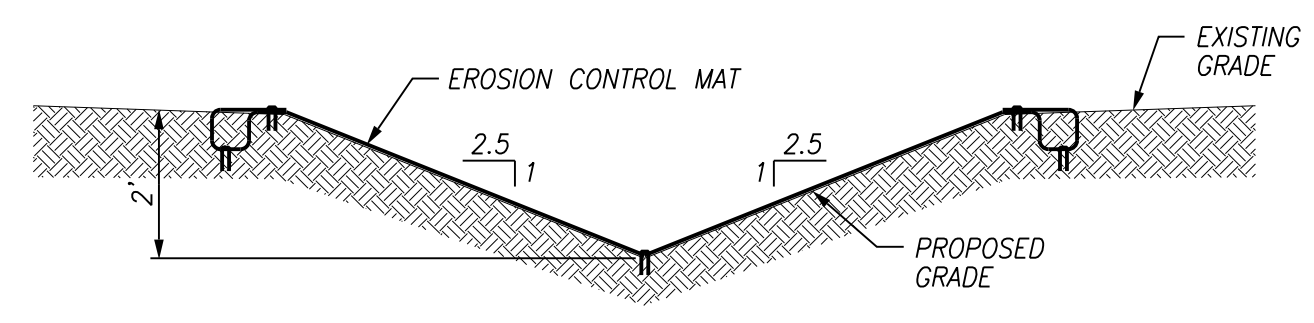
7 DETENTION POND BERM
C9.01 NTS



FRONT VIEW

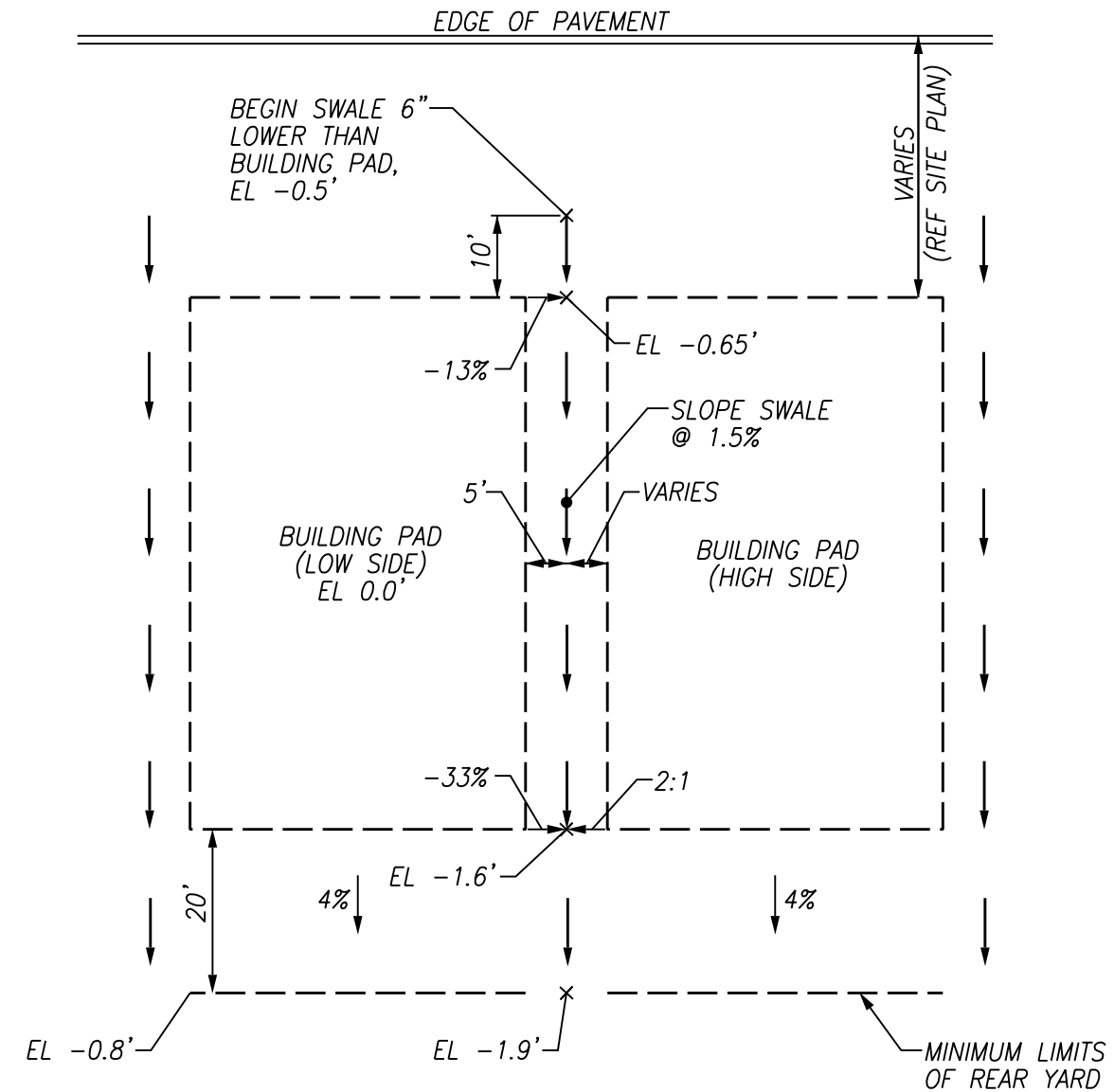
NOTES:
1. EROSION CONTROL MAT SHALL BE PYRAMAT BY SYNTHETIC INDUSTRIES OR EQUAL AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.
2. EXTEND MATTING 10' BEYOND TOE OF SLOPE ON THE DOWNHILL SIDE AND 10' BEYOND THE TOP OF SPILLWAY ON THE POND SIDE.

8 EMERGENCY SPILLWAY
C9.01 NTS



NOTES:
1. EROSION CONTROL MAT SHALL BE WESTERN EXCELSIOR EXCEL PPS-12 OR EQUAL AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.

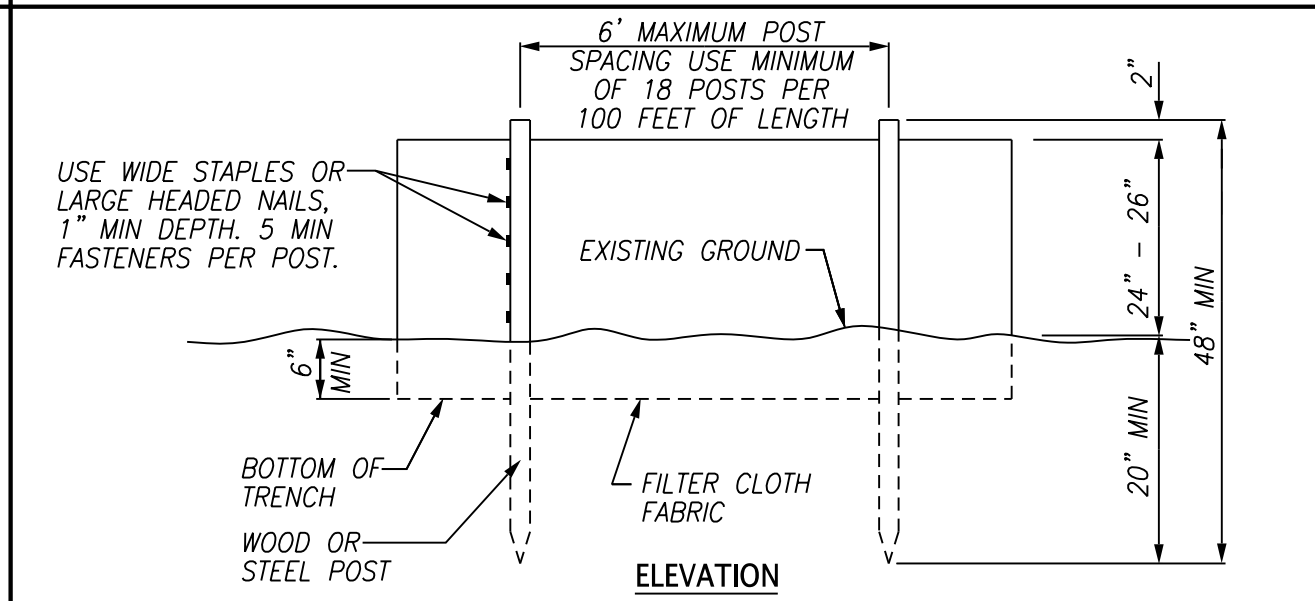
9 TYPICAL DITCH SECTION
C9.01 NTS



10 TYPICAL LOT GRADING
C9.01 NTS

NOTES:
1. THE PURPOSE OF THE STABILIZED CONSTRUCTION ENTRANCE IS TO AID THE CONTRACTOR IN ELIMINATING TRACKING OF MUD ONTO PUBLIC STREETS. THE DETAIL DOES NOT LIMIT THIS RESPONSIBILITY. OTHER METHODS OF SEDIMENT REMOVAL SHALL BE IMPLEMENTED IF THIS DOES NOT ADEQUATELY REMOVE THE MUD.
2. CONSTRUCT THE PAD WITH A 6" (MIN) THICKNESS OF 2" TO 3" CRUSHED STONE. UNDERLAY STONE WITH PROPEX 315ST WOVEN GEOTEXTILE OR EQUAL FABRIC TO MEET OR EXCEED AASHTO M288, CLASS 1 STANDARDS.
3. ADD CRUSHED STONE TO THE PAD AS NECESSARY TO MAINTAIN THE PROPER FUNCTIONING OF THE PAD.
4. LOCATION TO BE COORDINATED WITH THE OWNER.
5. WIDTH SHALL BE 20 FEET FOR ONE-WAY TRAFFIC AND 30 FEET FOR TWO-WAY.
6. REMOVE GRAVEL MATERIAL AND FILTER FABRIC AT COMPLETION OF CONSTRUCTION, OR AS PAVED SURFACES ARE FINISHED.

11 CONSTRUCTION ENTRANCE
C9.01 NTS



ELEVATION

NOTES:
1. SILT FENCE SHALL BE PRE-ASSEMBLED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
2. SILT FENCE SHALL HAVE AN APPROVED BACKING OR A BUILT-IN REINFORCED STRUCTURE AS RECOMMENDED BY THE MANUFACTURER TO SUPPORT THE GEOTEXTILE FABRIC.
3. ONCE PERMANENT VEGETATION IS ESTABLISHED, REMOVE THE SILT FENCE, BACKFILL TRENCH WITH TOPSOIL, AND APPLY SEED AND MULCH TO ALL DISTURBED AREAS. LEGALLY DISPOSE OF REMOVED FENCE OFF-SITE.
4. PLACE SILT FENCE AT LEAST 5 TO 7 FEET AWAY FROM STEEP OR LONG SLOPES TO IMPOUND STORMWATER RUNOFF.
5. POST SPACING SHALL BE 4 FEET MAXIMUM WITHIN A DRAINAGE CHANNEL.
6. TURN LAST 7 TO 10 FEET OF SILT FENCE UPHILL.

12 SILT FENCE
C9.01 NTS



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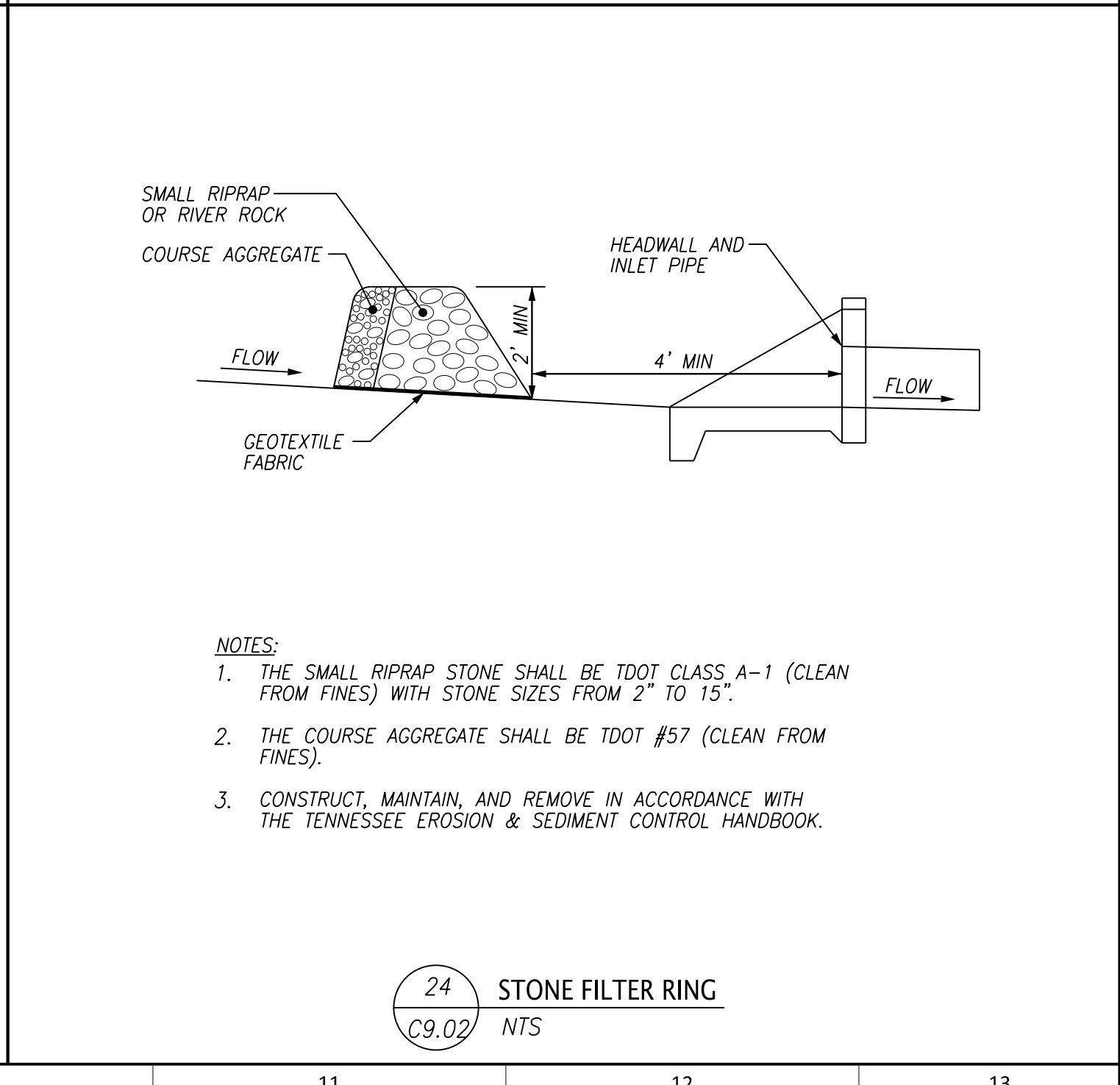
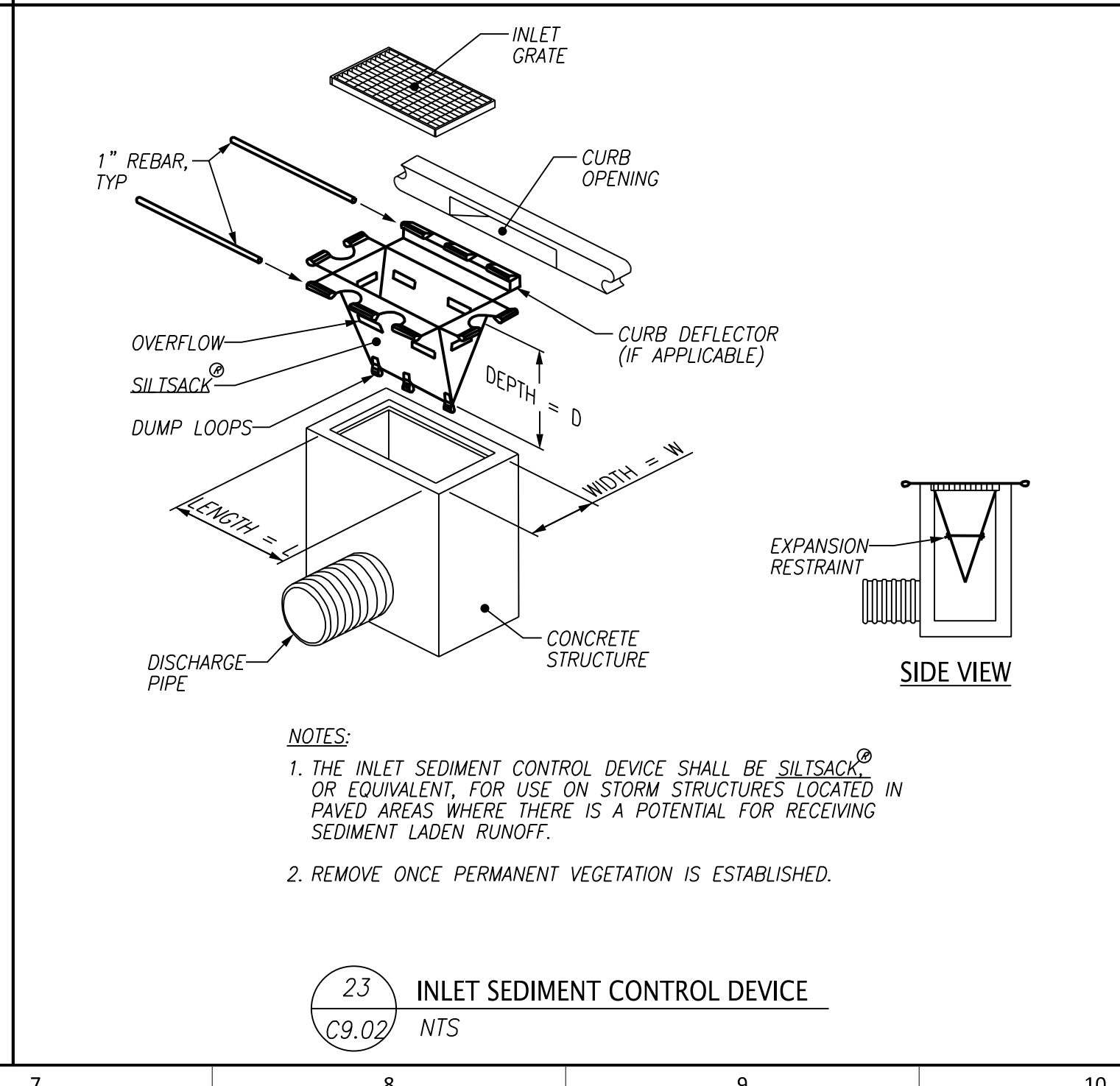
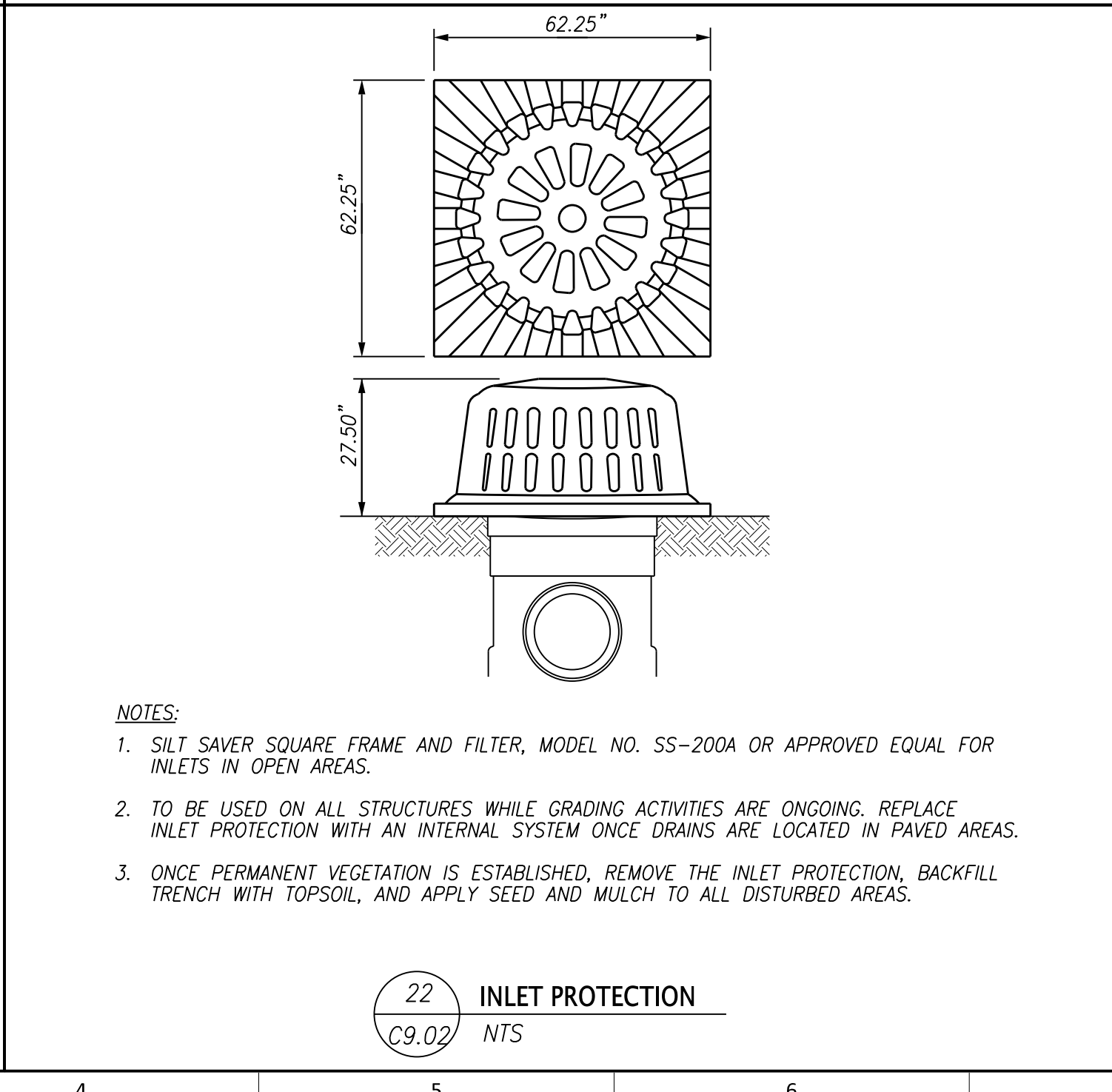
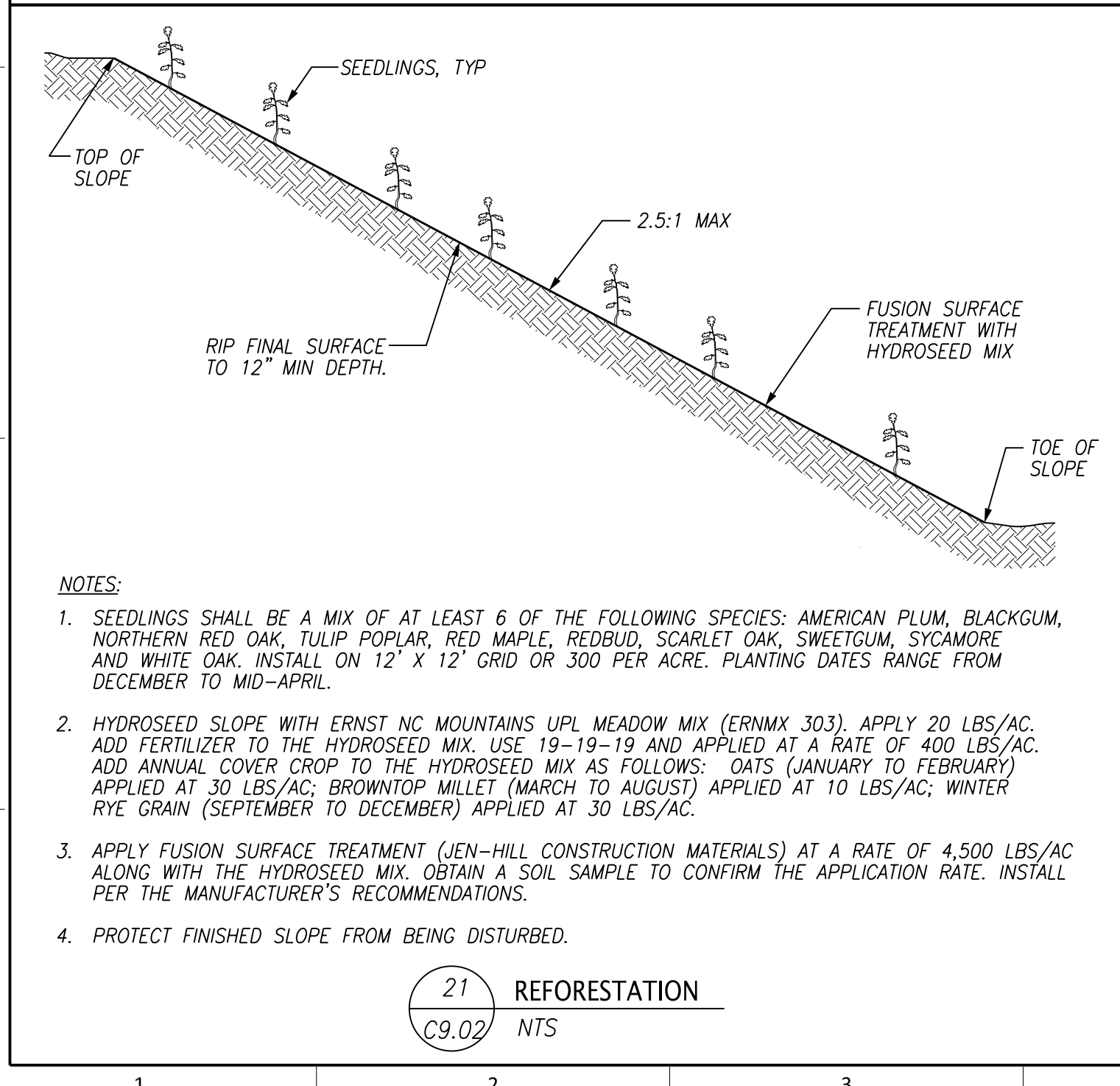
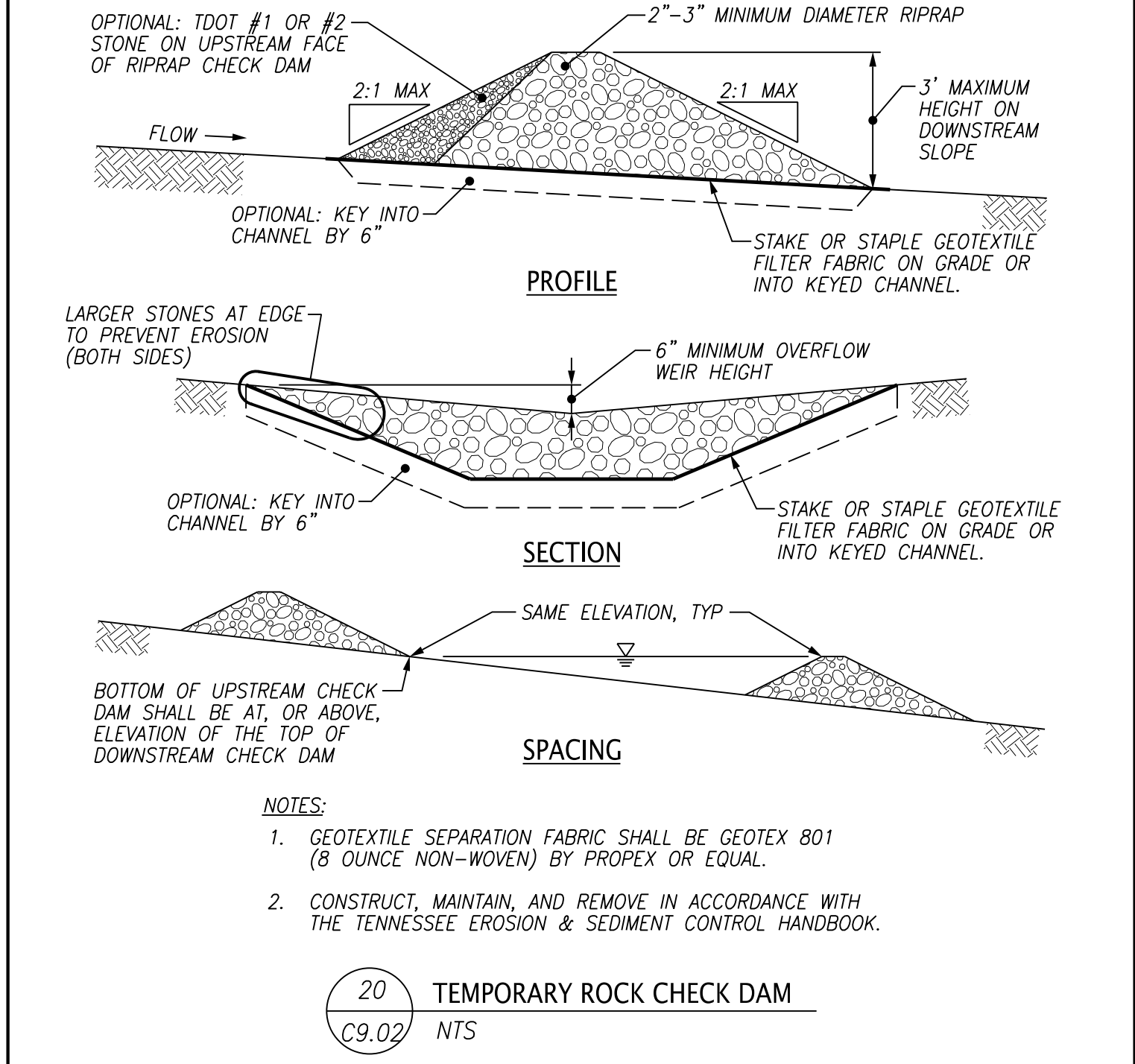
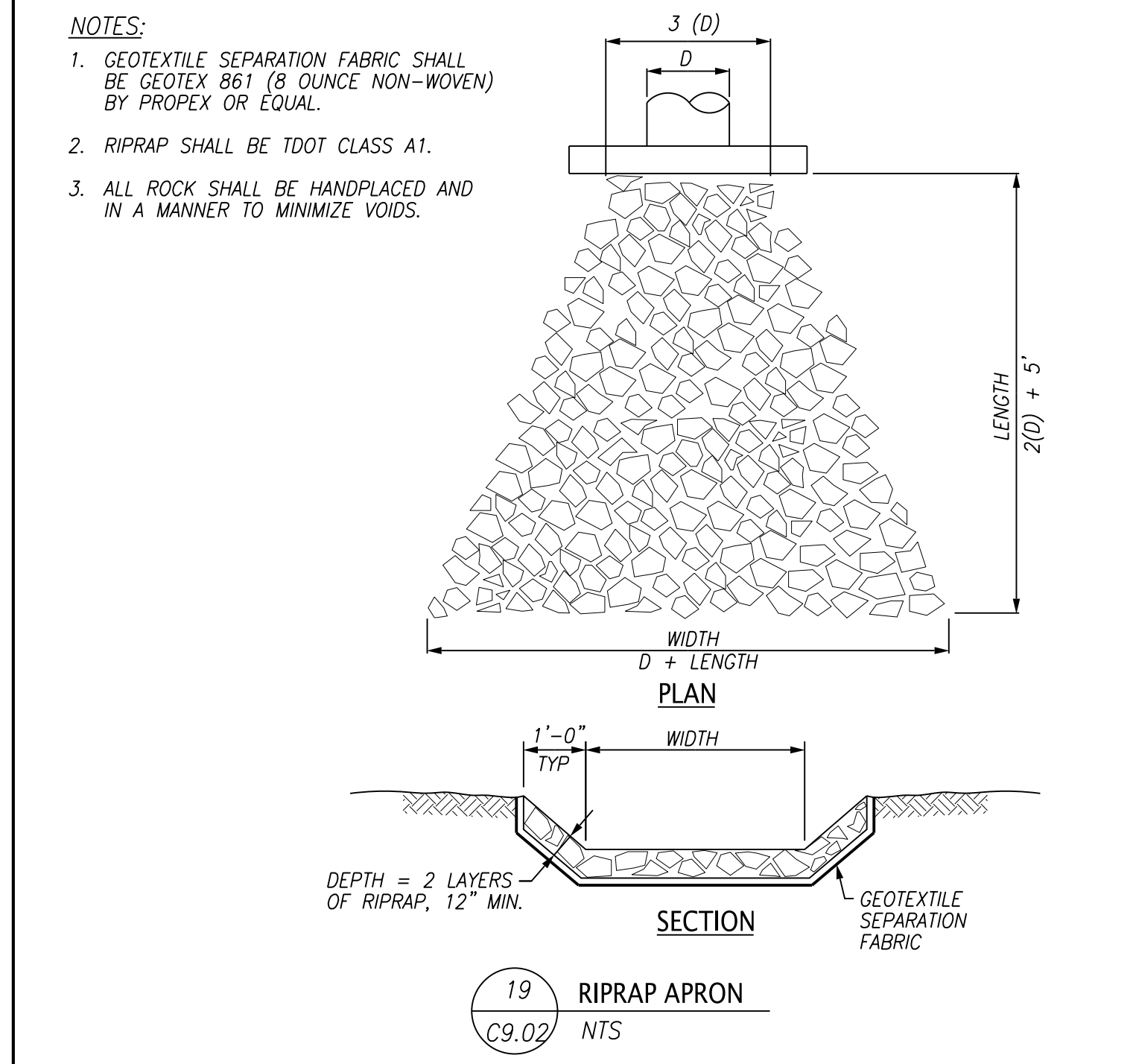
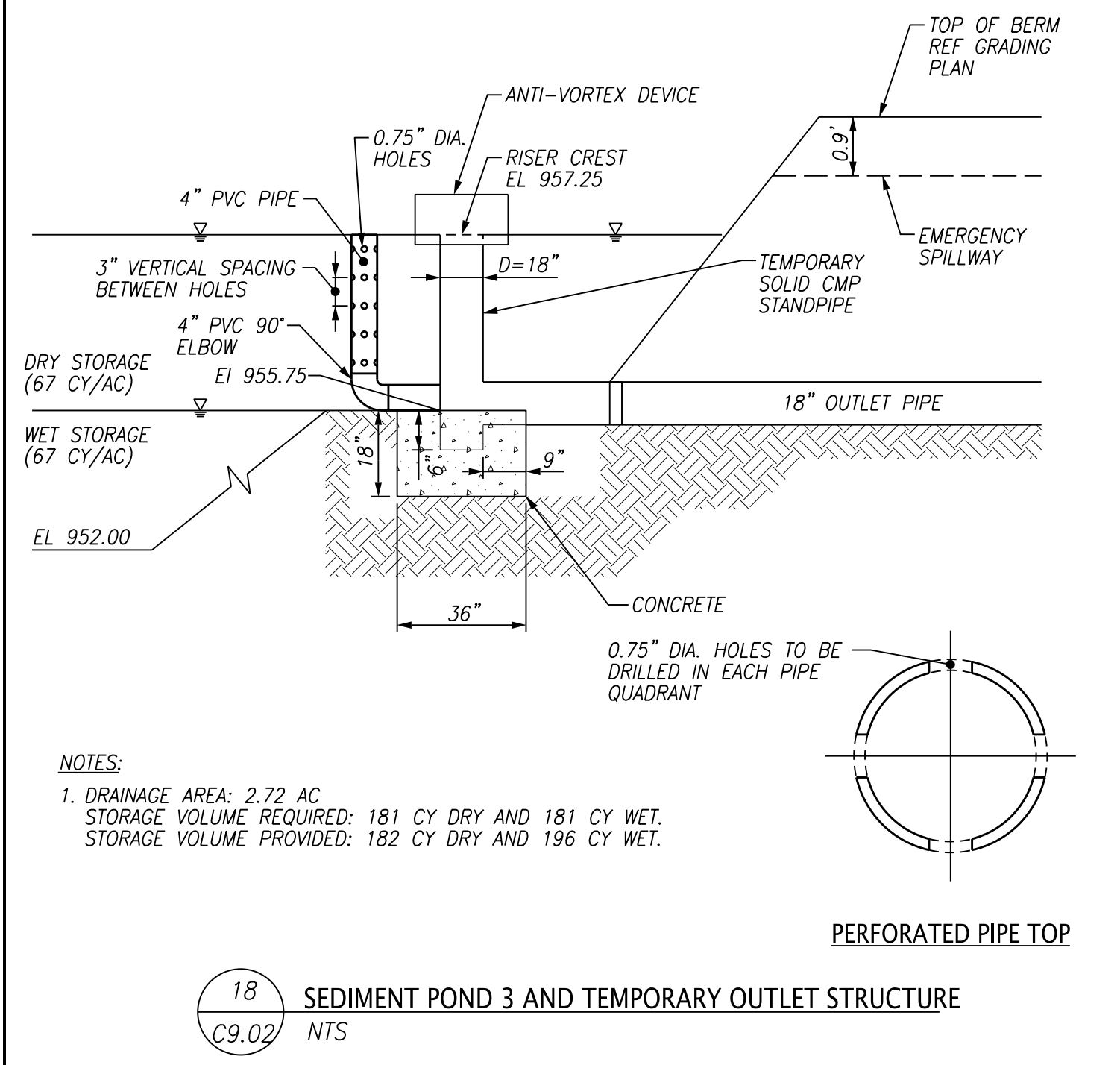
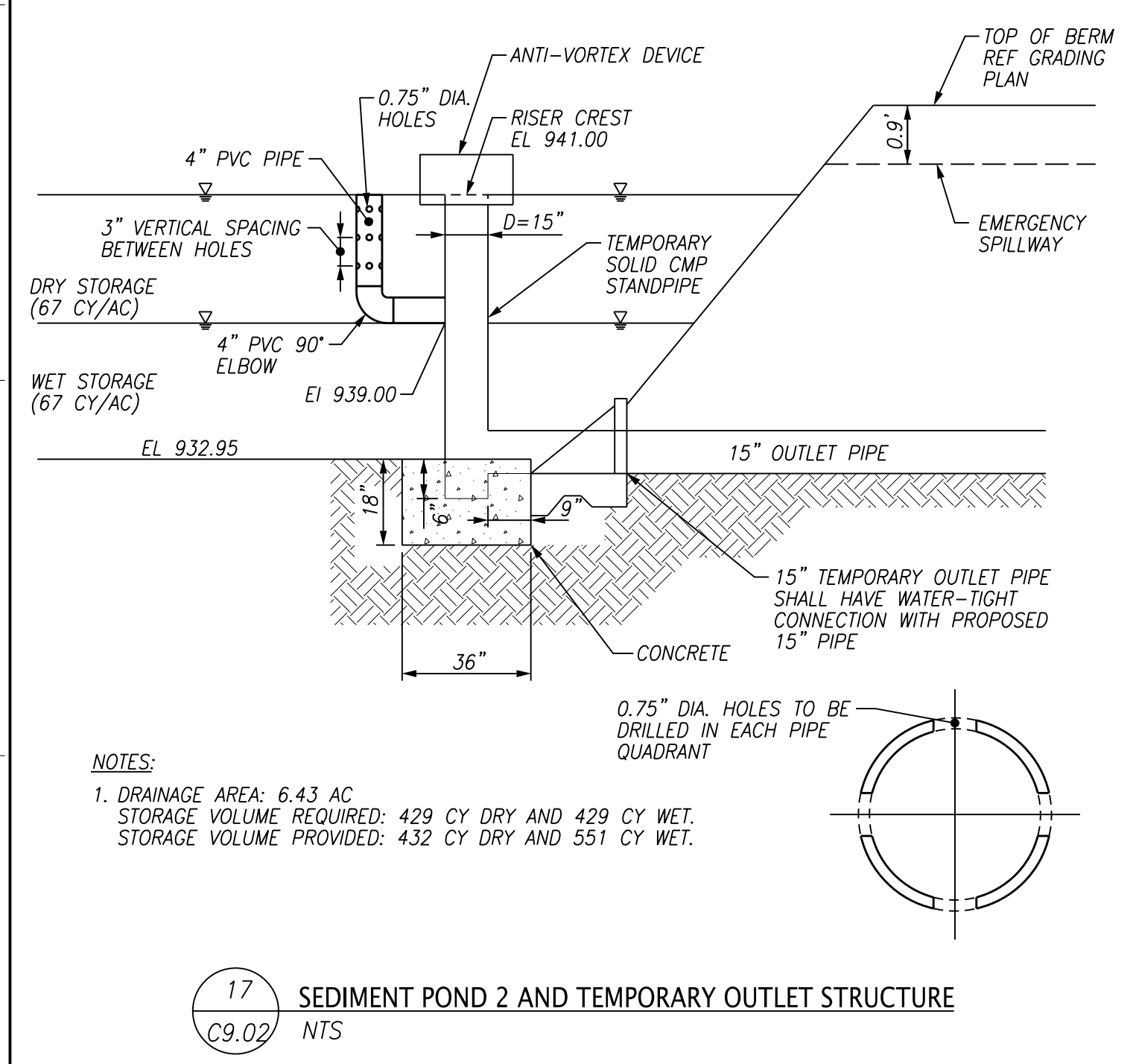
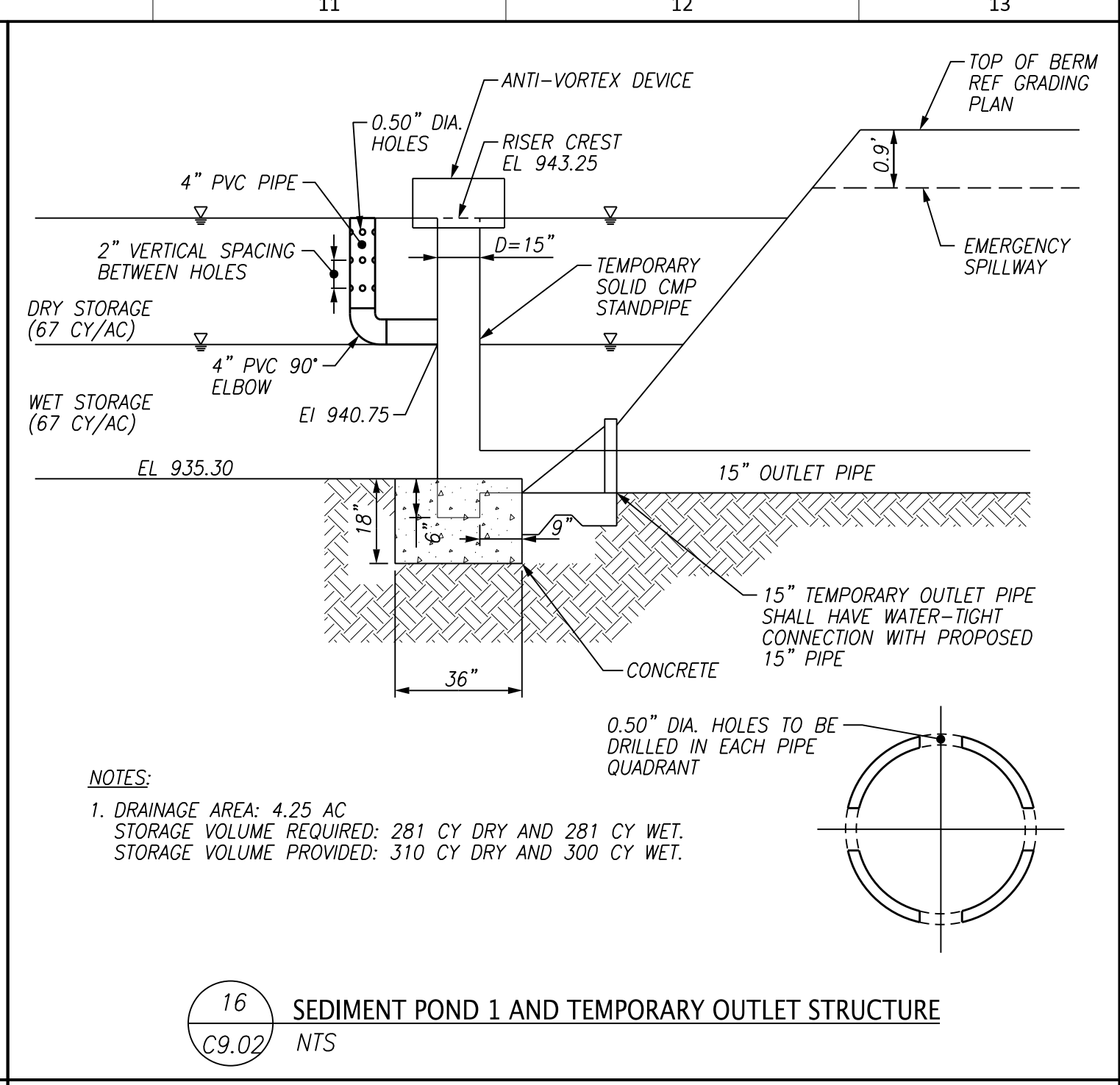
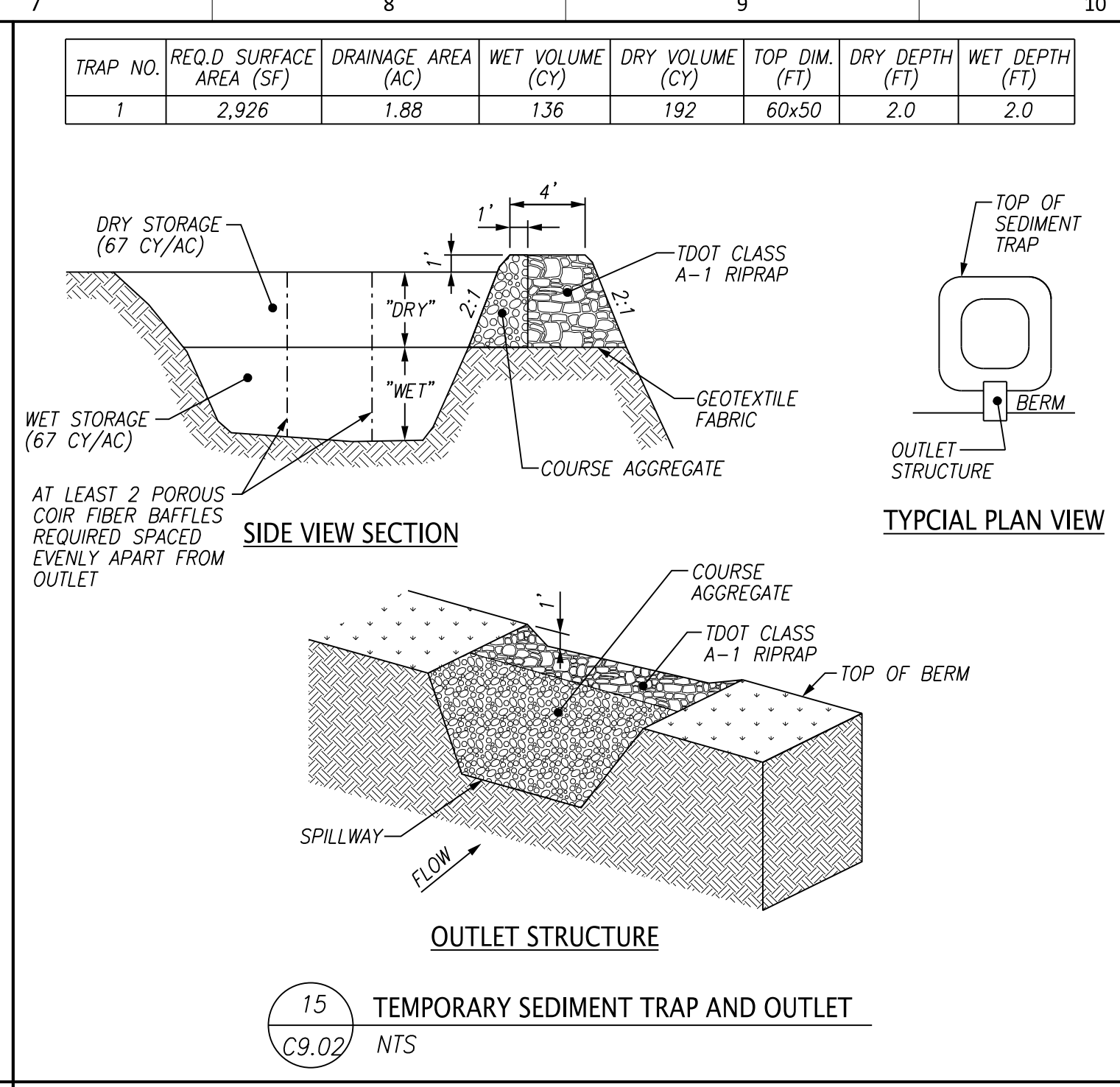
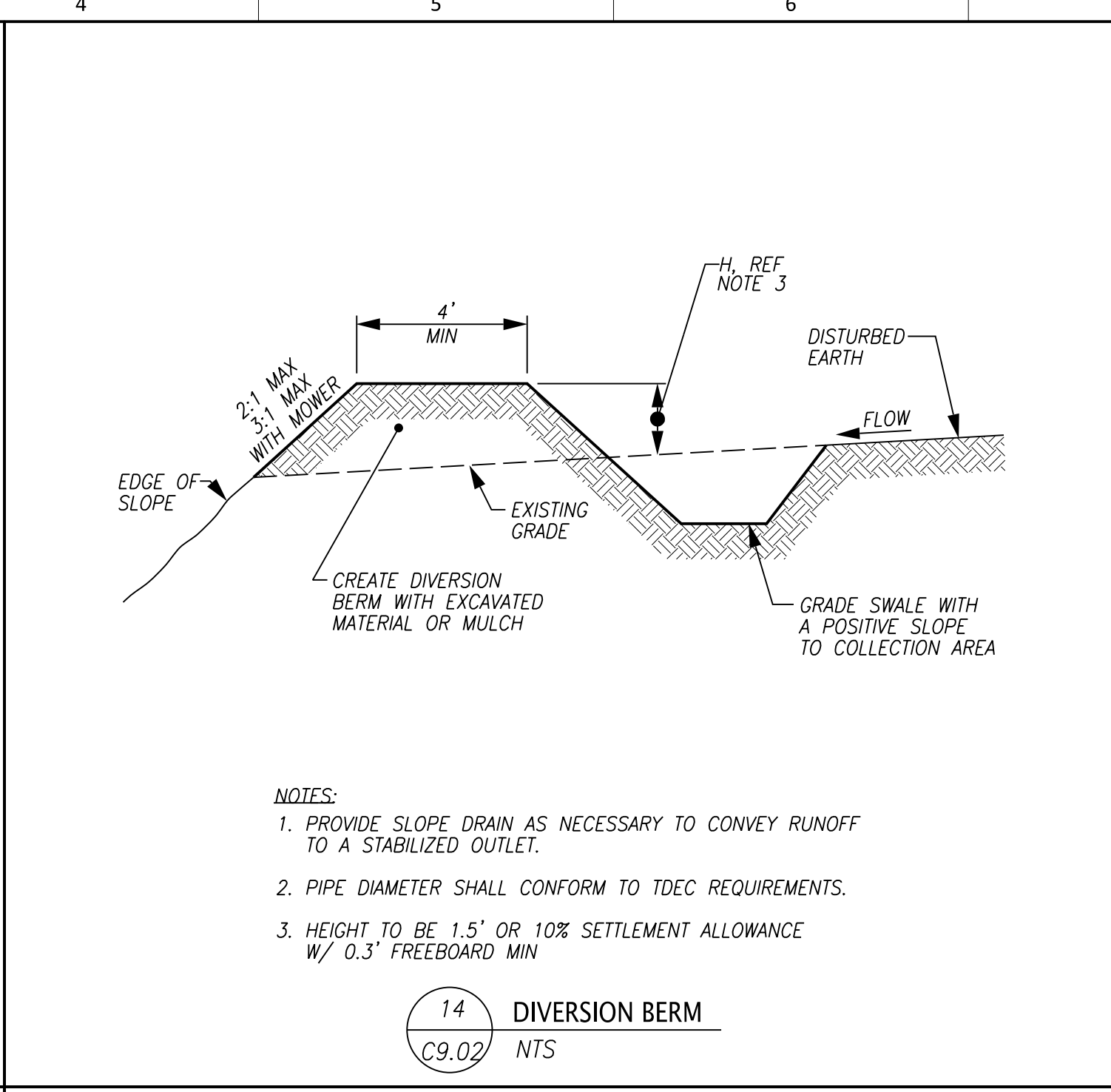
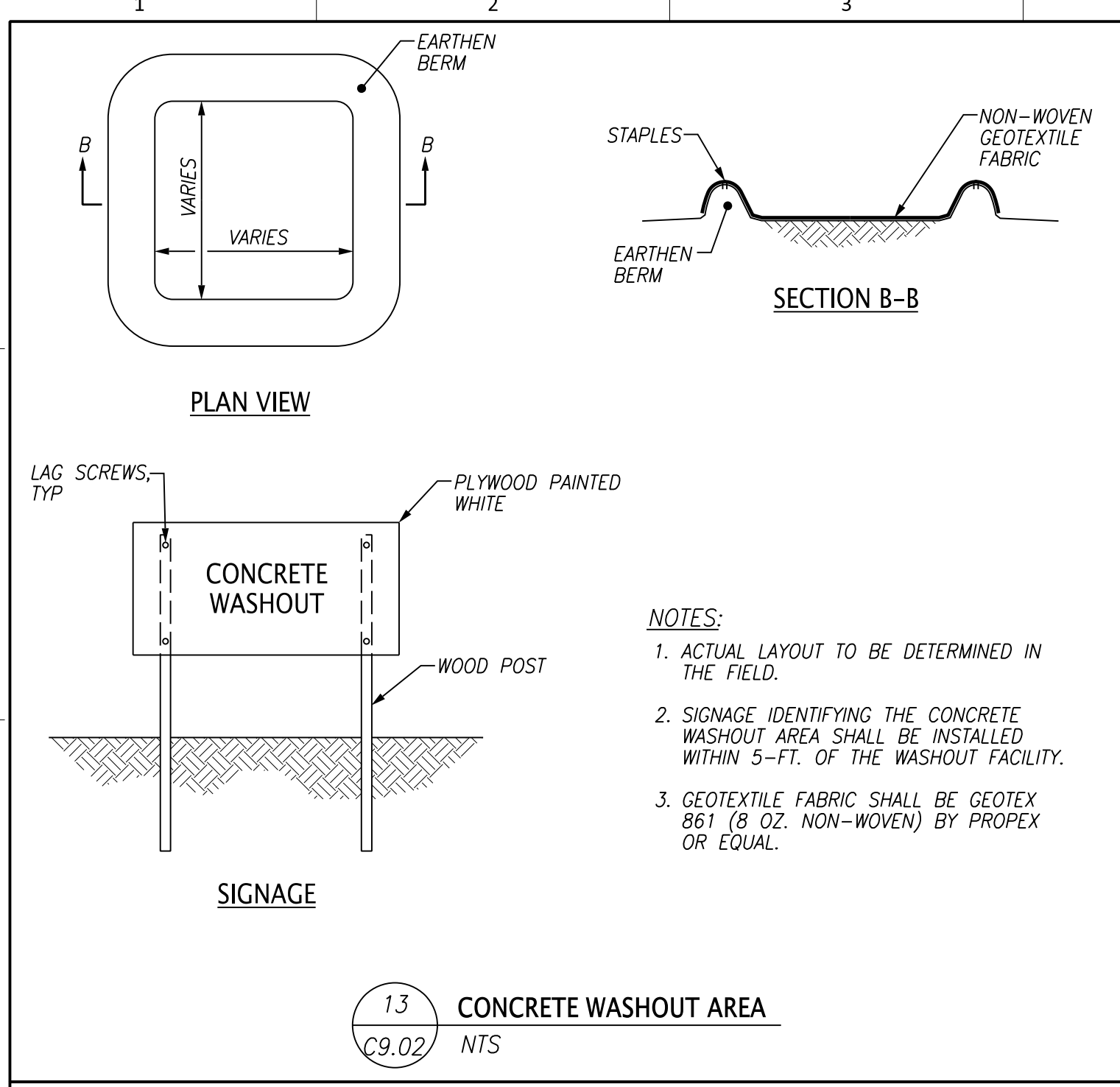
JOB NO: 669.003
DATE: 06/06/2023

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Plot Date: 6/6/2023

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NO.	DATE	BY	REVISION

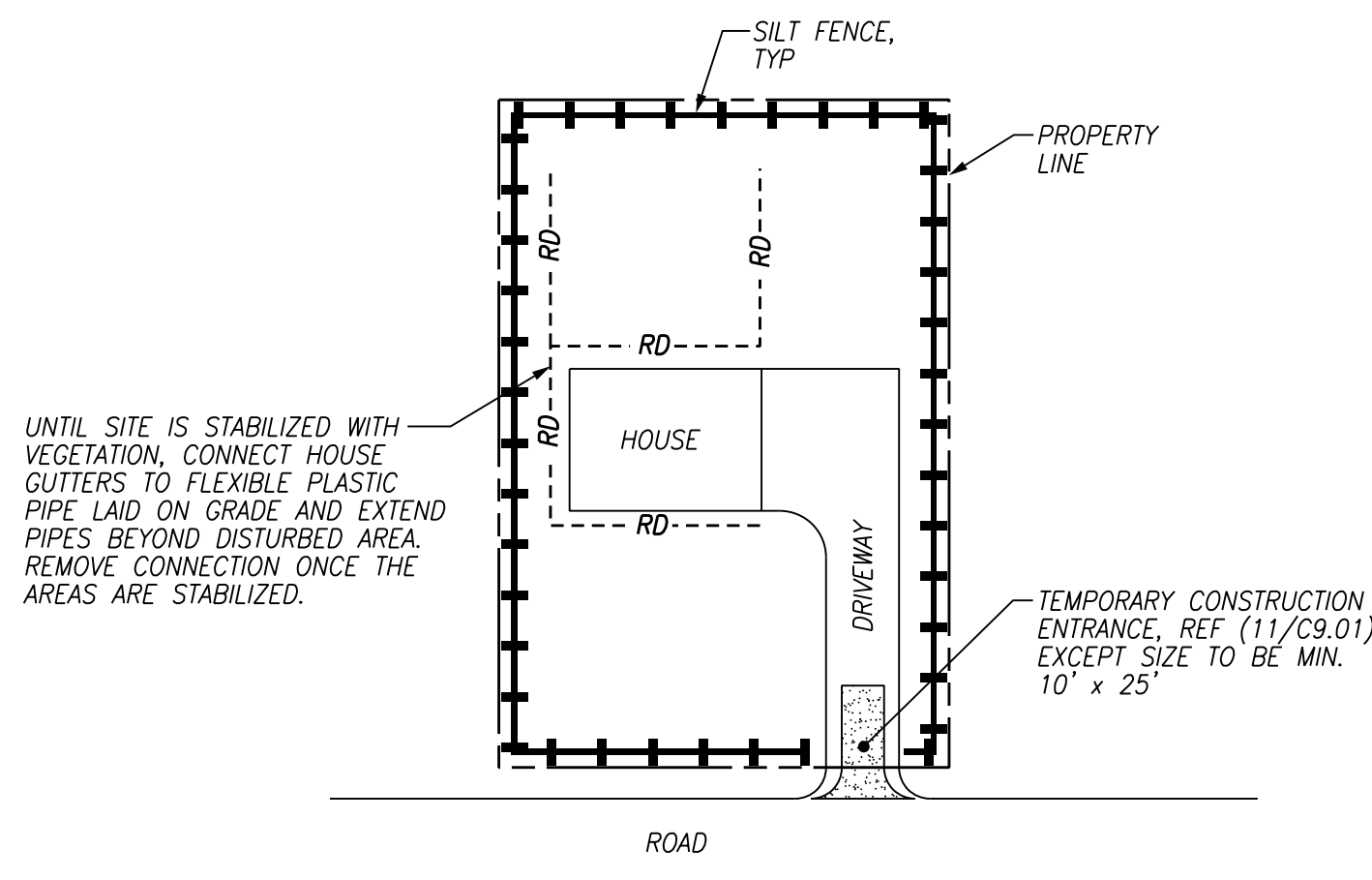
GONDOLA DRIVE SUBDIVISION
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DETAILS

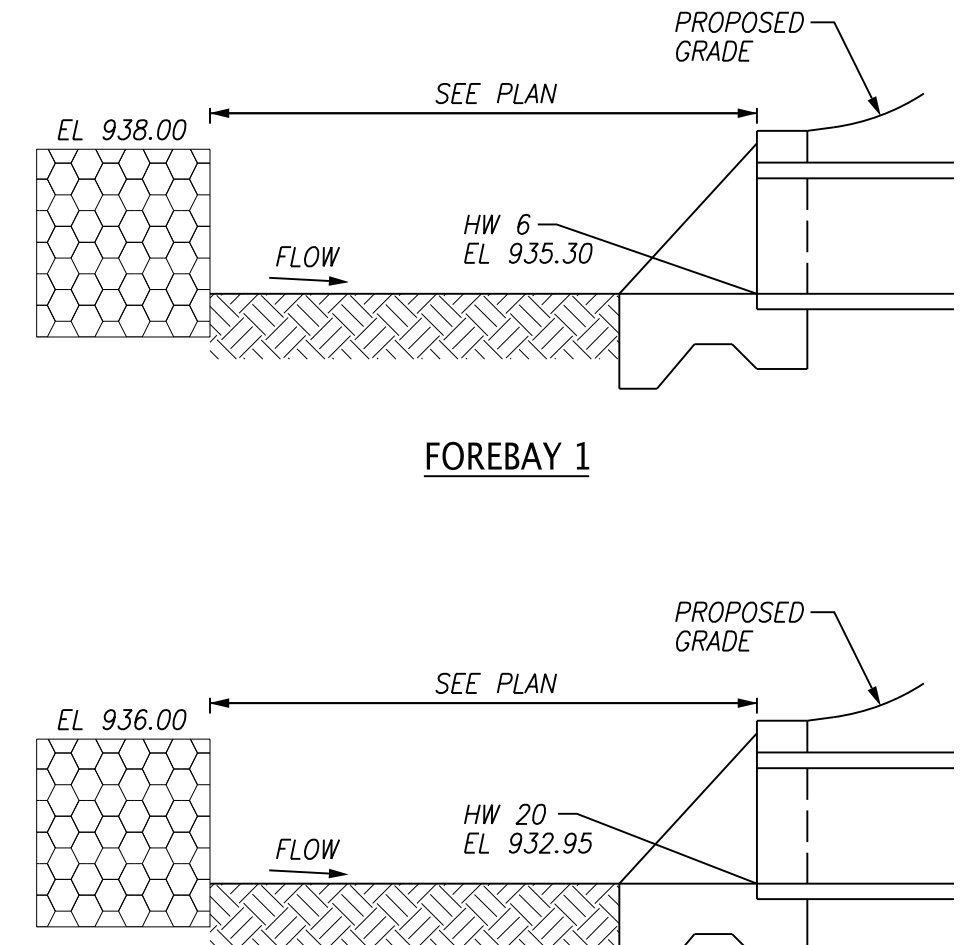
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 DATE: 06/06/2023

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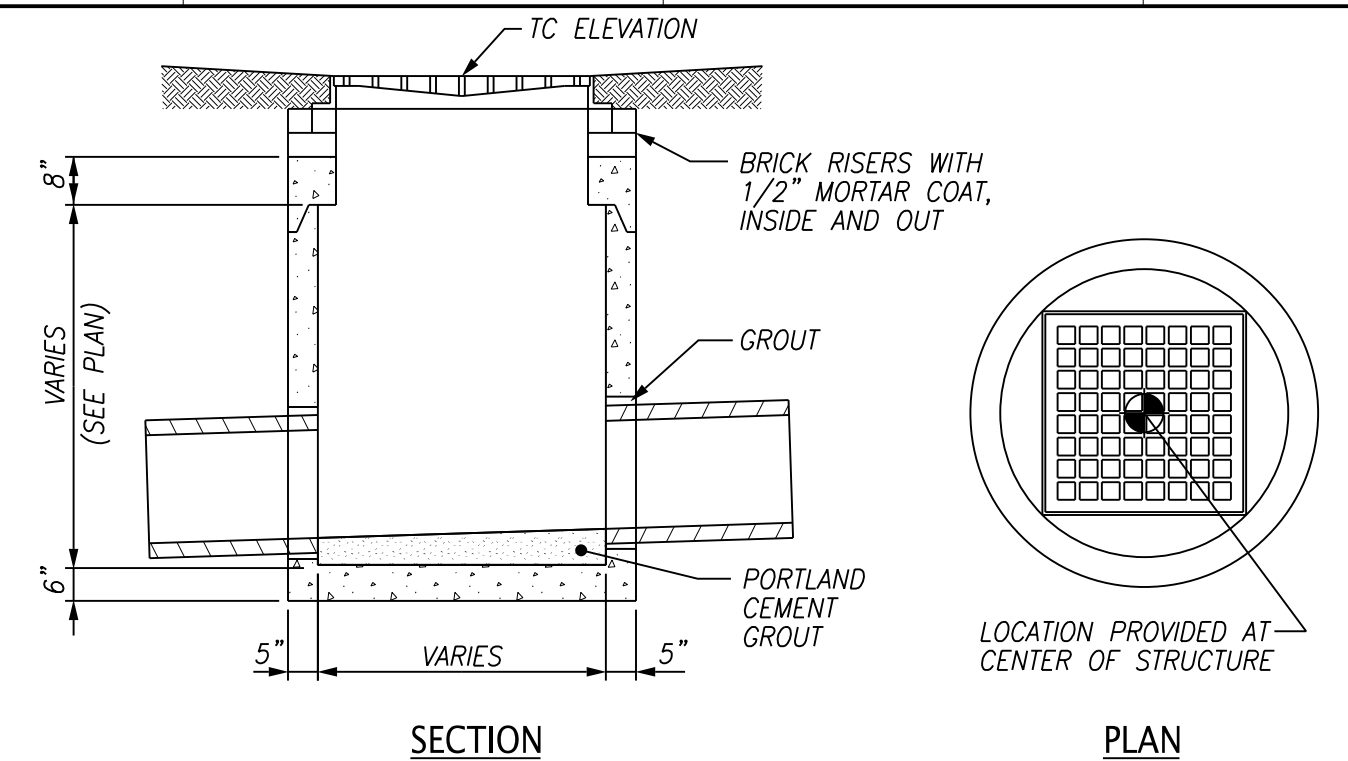
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25 EROSION CONTROL FOR HOME CONSTRUCTION
C9.03 NTS

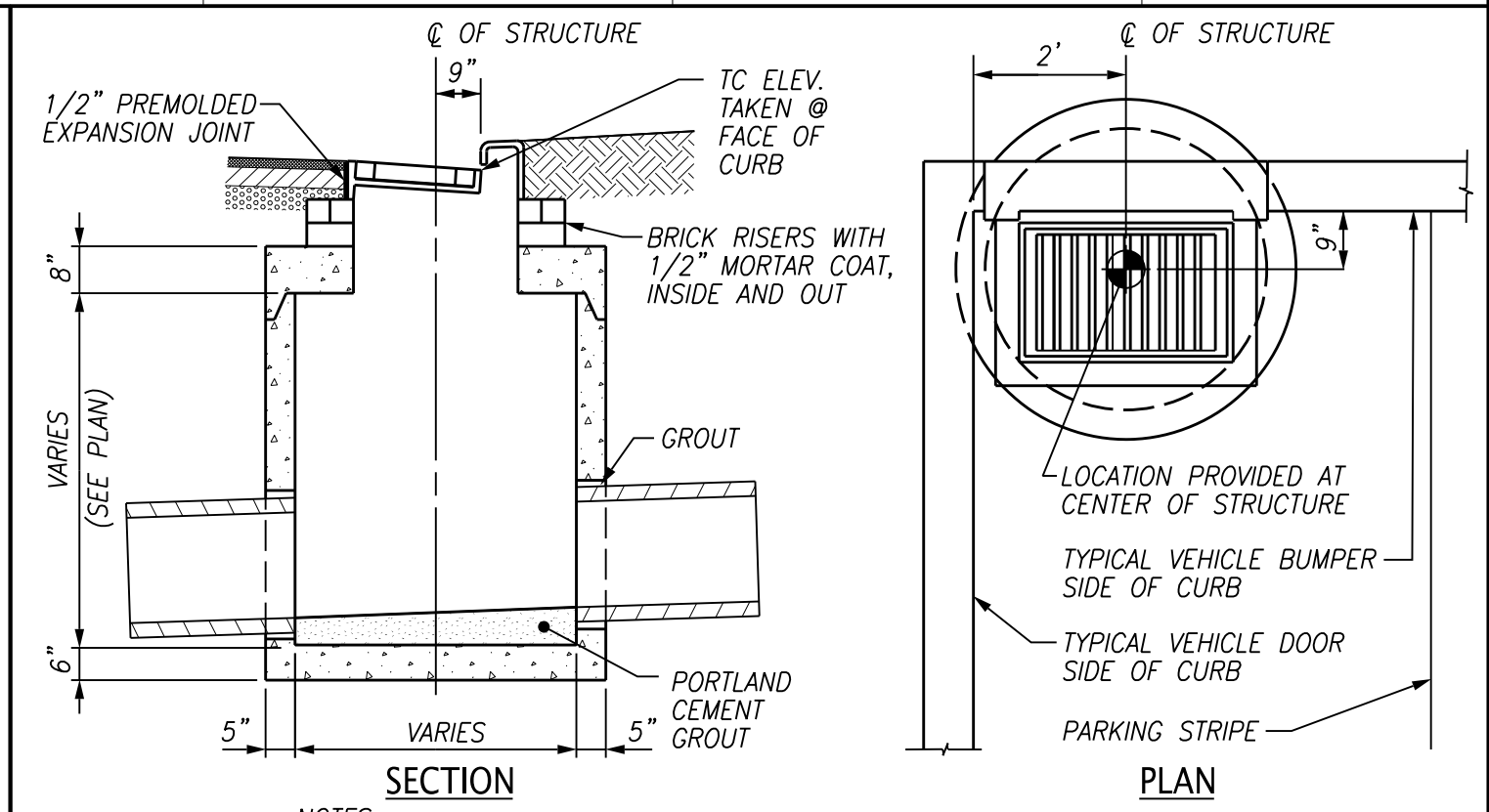


26 SEDIMENT BASIN FOREBAYS
C9.03 NTS



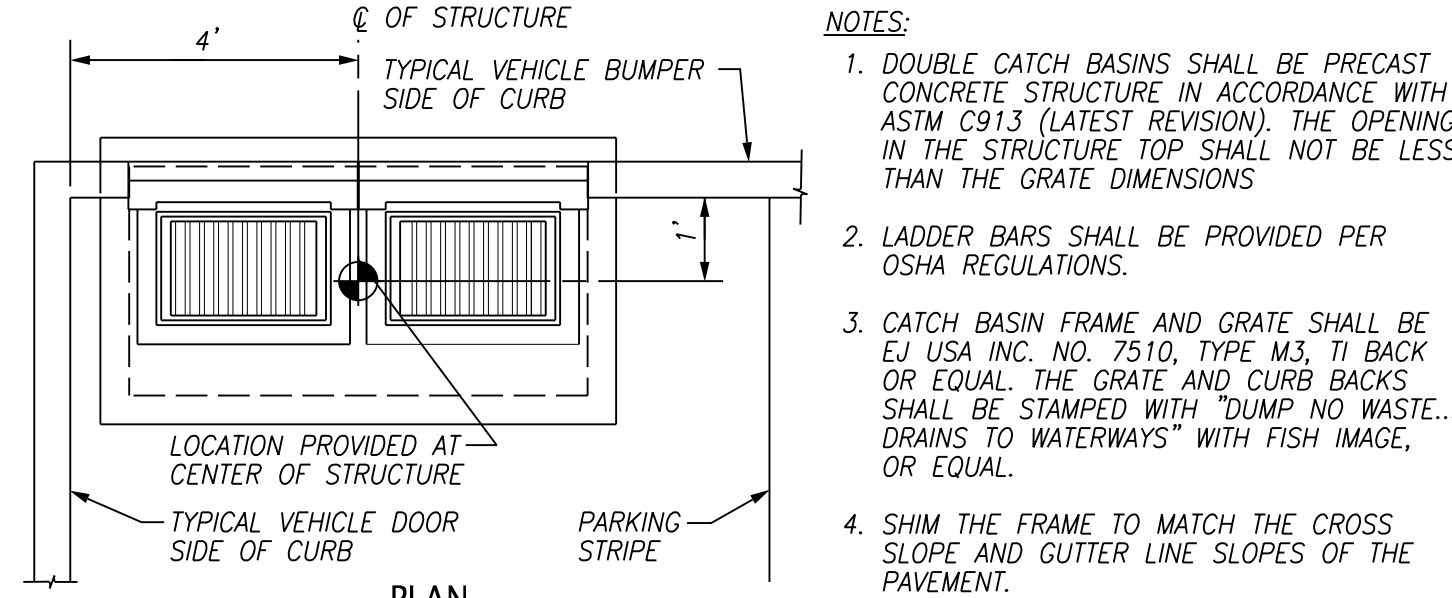
- NOTES:
- AREA DRAINS SHALL BE CIRCULAR OR SQUARE PRECAST CONCRETE STRUCTURE IN ACCORDANCE WITH ASTM C478 OR C913 (LATEST REVISION). DIMENSIONS VARY DEPENDING ON PIPE SIZE AND ANGLE OF PIPES IN AND OUT OF STRUCTURE. THE OPENING IN THE STRUCTURE TOP SHALL NOT BE LESS THAN THE GRATE DIMENSIONS.
 - LADDER BARS SHALL BE PROVIDED PER OSHA REGULATIONS.
 - LOCATION AND TC ELEVATIONS GIVEN AT CENTER OF THE STRUCTURE.
 - FRAME AND GRATE SHALL BE EJ USA INCORPORATED MODEL NO. V-5630 OR EQUAL. GRATE IN PEDESTRIAN TRAFFIC AREAS SHALL BE EJ USA INCORPORATED MODEL NO. V-5630-80 ADA STYLE OR EQUAL. THE GRATE SHALL BE STAMPED WITH "DUMP NO WASTE...DRAINS TO WATERWAYS" WITH FISH IMAGE, OR EQUAL.
 - SHIM THE FRAME TO MATCH THE CROSS SLOPE AND GUTTER LINE SLOPES OF THE PAVEMENT.

27 AREA DRAIN
C9.03 NTS



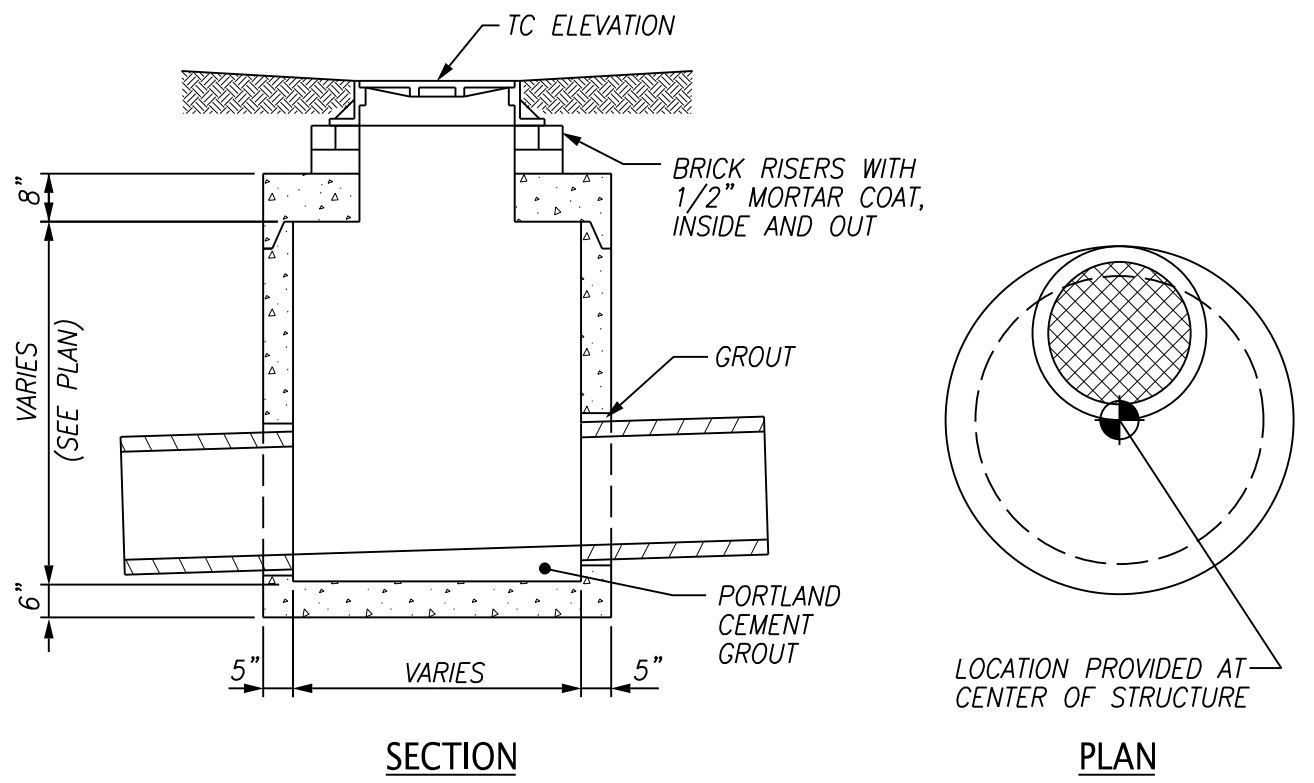
- NOTES:
- CATCH BASINS SHALL BE CIRCULAR OR SQUARE PRECAST CONCRETE STRUCTURE IN ACCORDANCE WITH ASTM C478 OR C913 (LATEST REVISION). DIMENSIONS VARY DEPENDING ON PIPE SIZE AND ANGLE OF PIPES IN AND OUT OF STRUCTURE. THE OPENING IN THE STRUCTURE TOP SHALL NOT BE LESS THAN THE GRATE DIMENSIONS.
 - LADDER BARS SHALL BE PROVIDED PER OSHA REGULATIONS.
 - CATCH BASIN FRAME AND GRATE SHALL BE EJ USA INC. NO. 7510, TYPE M3, T1 BACK OR EQUAL. THE GRATE AND CURB BACKS SHALL BE STAMPED WITH "DUMP NO WASTE... DRAINS TO WATERWAYS" WITH FISH IMAGE, OR EQUAL.
 - SHIM THE FRAME TO MATCH THE CROSS SLOPE AND GUTTER LINE SLOPES OF THE PAVEMENT.

28 SINGLE CATCH BASIN
C9.03 NTS



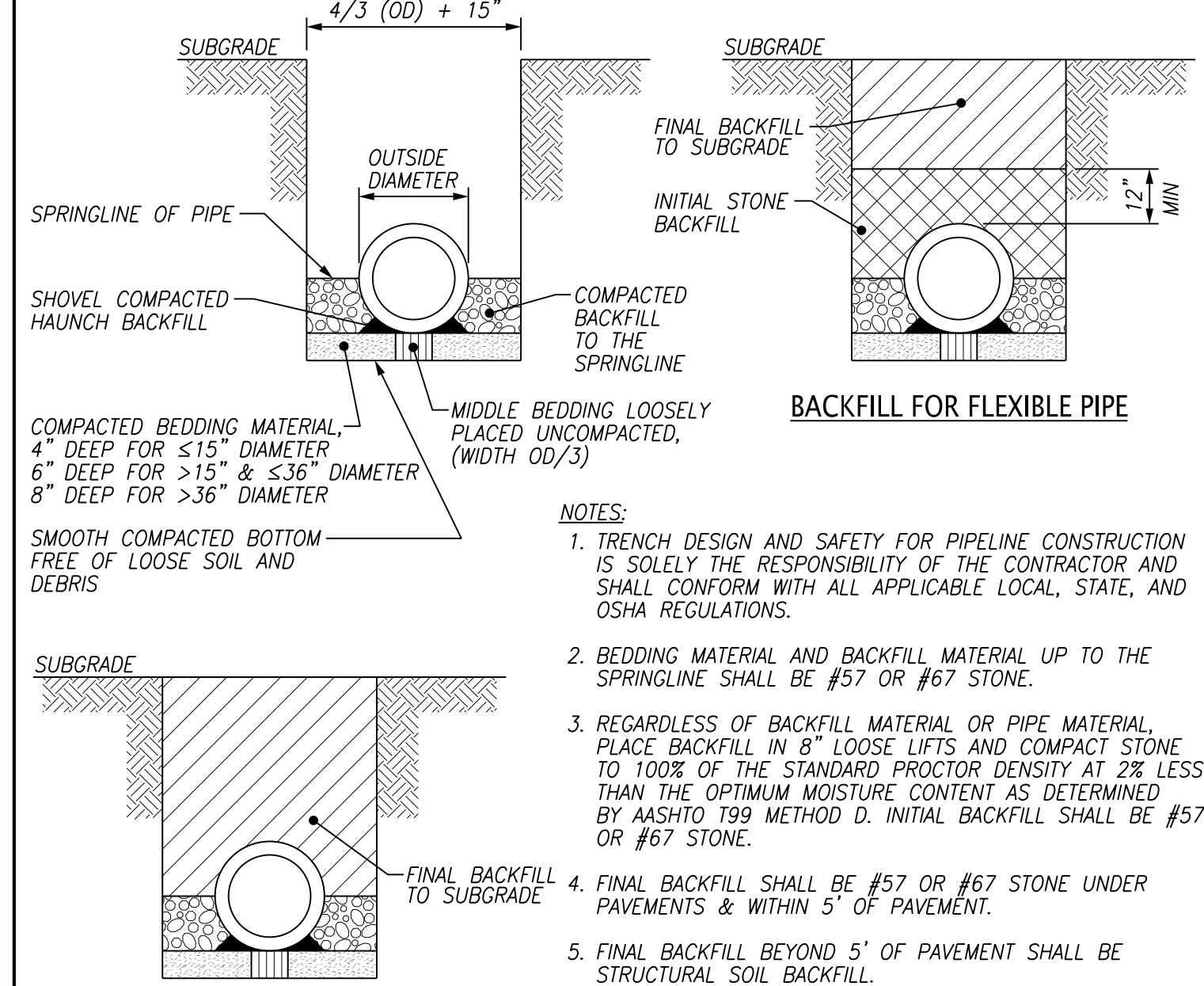
- NOTES:
- DOUBLE CATCH BASINS SHALL BE PRECAST CONCRETE STRUCTURE IN ACCORDANCE WITH ASTM C913 (LATEST REVISION). THE OPENING IN THE STRUCTURE TOP SHALL NOT BE LESS THAN THE GRATE DIMENSIONS.
 - LADDER BARS SHALL BE PROVIDED PER OSHA REGULATIONS.
 - CATCH BASIN FRAME AND GRATE SHALL BE EJ USA INC. NO. 7510, TYPE M3, T1 BACK OR EQUAL. THE GRATE AND CURB BACKS SHALL BE STAMPED WITH "DUMP NO WASTE... DRAINS TO WATERWAYS" WITH FISH IMAGE, OR EQUAL.
 - SHIM THE FRAME TO MATCH THE CROSS SLOPE AND GUTTER LINE SLOPES OF THE PAVEMENT.

29 DOUBLE CATCH BASIN
C9.03 NTS



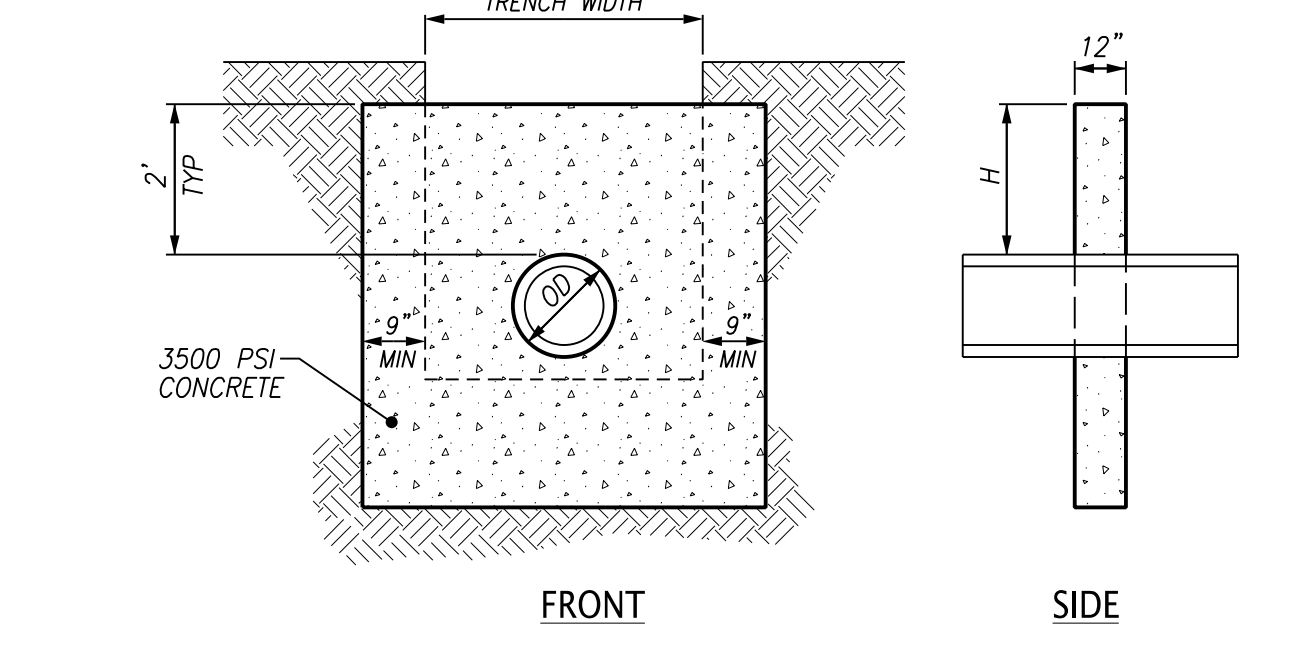
- NOTES:
- MANHOLES SHALL BE CIRCULAR OR SQUARE PRECAST CONCRETE STRUCTURE IN ACCORDANCE WITH ASTM C478 OR C913 (LATEST REVISION). DIMENSIONS VARY DEPENDING ON PIPE SIZE AND ANGLE OF PIPES IN AND OUT OF STRUCTURE. THE OPENING IN THE STRUCTURE TOP SHALL NOT BE LESS THAN THE GRATE DIMENSIONS.
 - LADDER BARS SHALL BE PROVIDED PER OSHA REGULATIONS.
 - LOCATION AND TC ELEVATIONS GIVEN AT CENTER OF THE STRUCTURE.
 - TYPE A SOLID COVER OR EQUAL. THE COVER SHALL BE STAMPED WITH "STORM SEWER" AND "DUMP NO WASTE...DRAINS TO WATERWAYS" WITH FISH IMAGE, OR EQUAL.
 - ADJUST ALL SIDES OF THE FRAME AND COVER TO MATCH PAVEMENT CROSS SLOPE AND LONGITUDINAL SLOPE OR FLUSH WITH FINISHED GRADE.

30 STORM DRAIN MANHOLE
C9.03 NTS



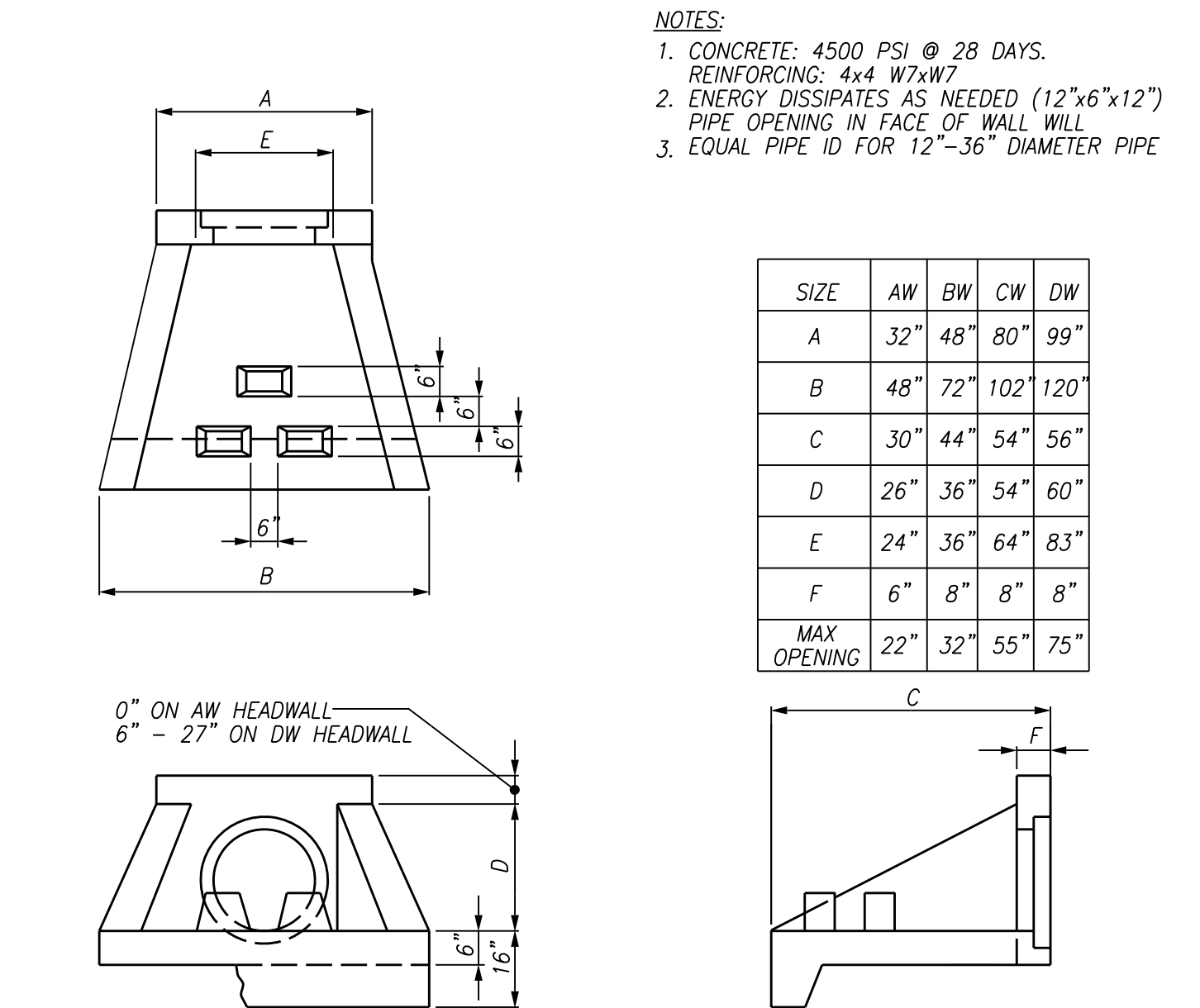
- NOTES:
- TRENCH DESIGN AND SAFETY FOR PIPELINE CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM WITH ALL APPLICABLE LOCAL, STATE, AND OSHA REGULATIONS.
 - BEDDING MATERIAL AND BACKFILL MATERIAL UP TO THE SPRINGLINE SHALL BE #57 OR #67 STONE.
 - REGARDLESS OF BACKFILL MATERIAL OR PIPE MATERIAL PLACE BACKFILL IN 8" LOOSE LIFTS AND COMPACT STONE TO 100% OF THE STANDARD PROCTOR DENSITY AT 2% LESS THAN THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY AASHTO T99 METHOD D. INITIAL BACKFILL SHALL BE #57 OR #67 STONE.
 - FINAL BACKFILL SHALL BE #57 OR #67 STONE UNDER PAVEMENTS AND WITHIN 5' OF PAVEMENT.
 - FINAL BACKFILL BEYOND 5' OF PAVEMENT SHALL BE STRUCTURAL SOIL BACKFILL.

31 PIPE BEDDING AND BACKFILL
C9.03 NTS



- NOTES:
- MAXIMUM SPACING SHALL BE 14 TIMES THE COLLAR HEIGHT (H) OR 25 FEET WHICHEVER IS LESS. MINIMUM SPACING IS 10 FEET.
 - PROVIDE A COLLAR AT THE HALF-WAY POINT IN THE BERM.
 - PROVIDE A MINIMUM OF ONE COLLAR FOR BERMS LESS THAN 8 FEET HIGH AND AT LEAST TWO COLLARS FOR BERMS EQUAL TO OR GREATER THAN 8 FEET.

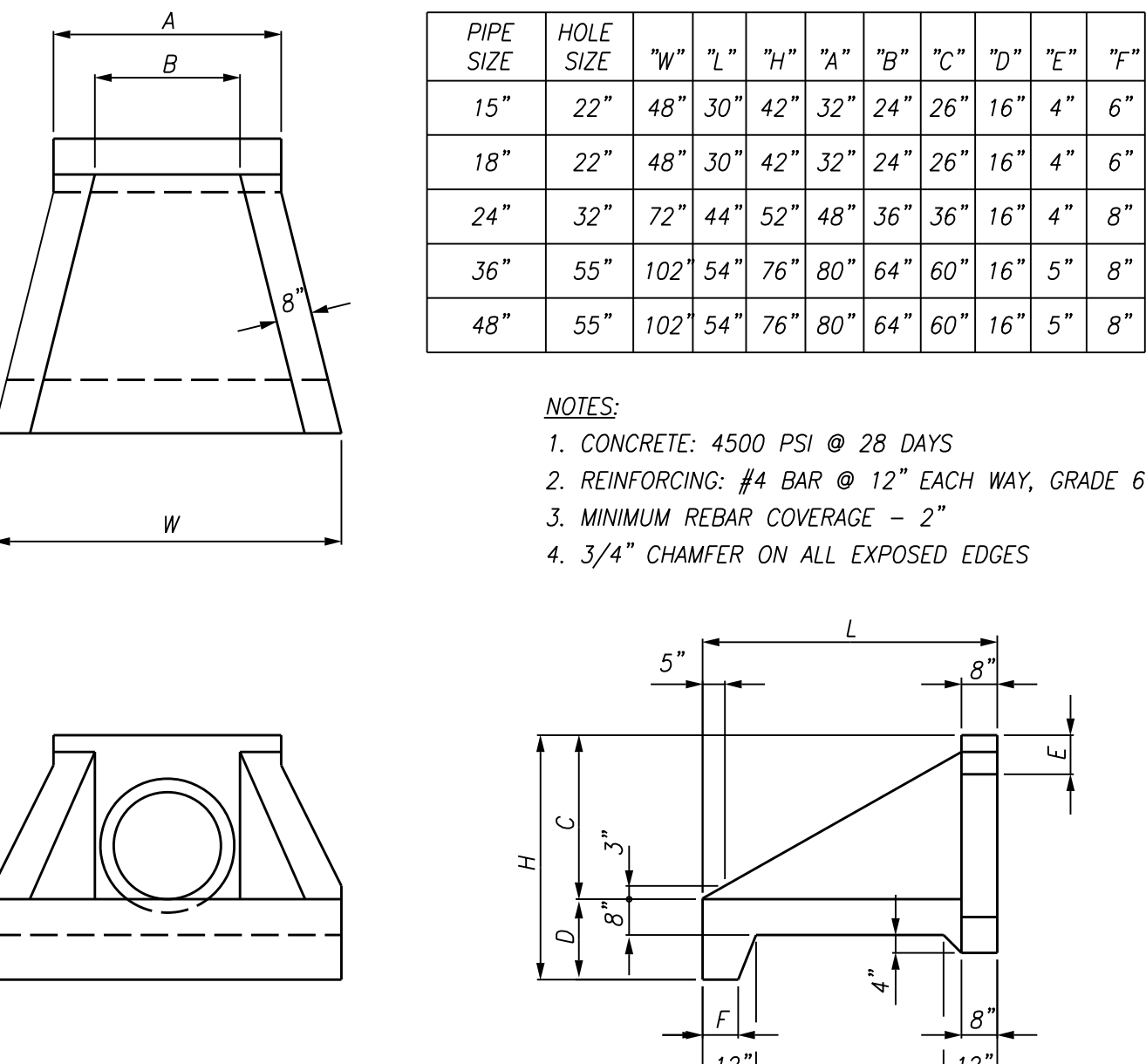
32 CONCRETE ANTI-SEEP COLLAR
C9.03 NTS



- NOTES:
- CONCRETE: 4500 PSI @ 28 DAYS.
 - REINFORCING: 4#4 W7AW7
 - ENERGY DISSIPATES AS NEEDED (12"x6"x12") PIPE OPENING IN FACE OF WALL WILL EQUAL PIPE ID FOR 12"-36" DIAMETER PIPE

SIZE	AW	BW	CW	DW
A	32"	48"	80"	99"
B	48"	72"	102"	120"
C	30"	44"	54"	56"
D	26"	36"	54"	60"
E	24"	36"	64"	83"
F	6"	8"	8"	8"
MAX OPENING	22"	32"	55"	75"

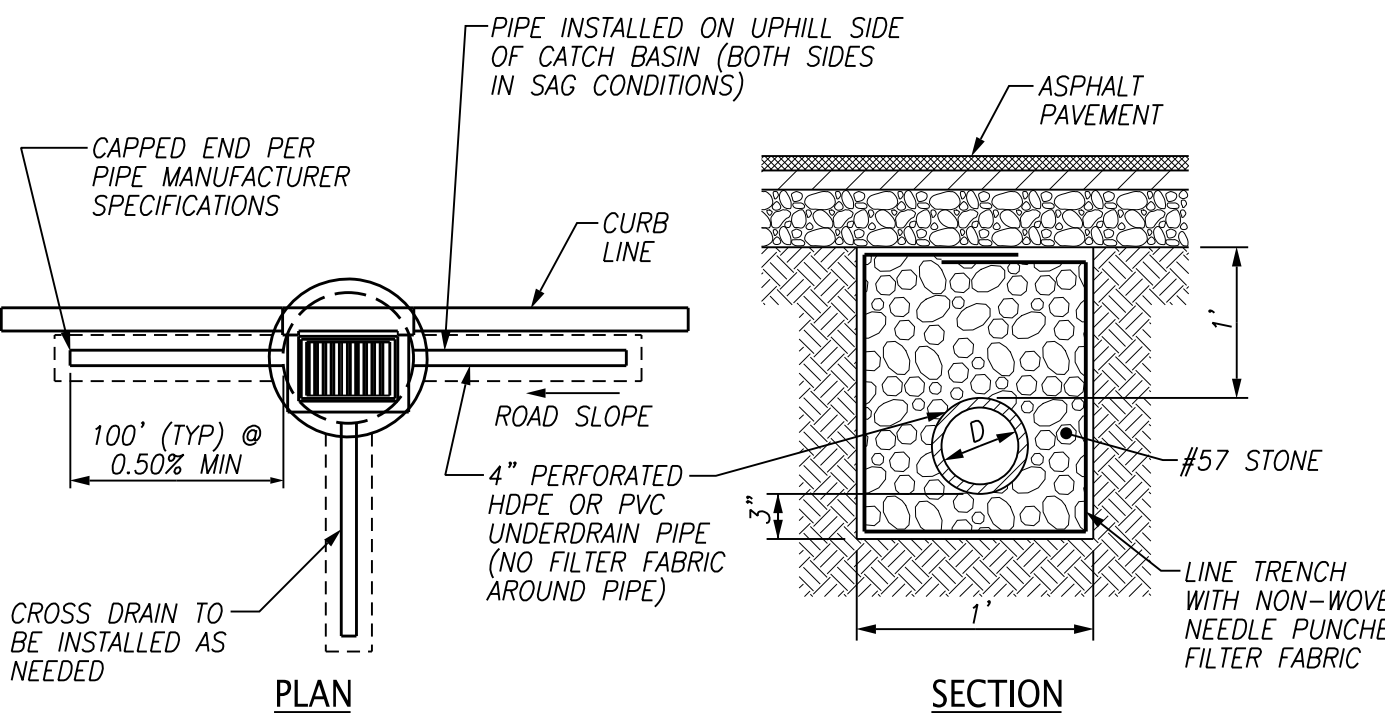
33 PRECAST CONCRETE HEADWALL W/DISSIPATORS
C9.03 NTS



PIPE SIZE	HOLE SIZE	"W"	"L"	"H"	"A"	"B"	"C"	"D"	"E"	"F"
15"	22"	48"	30"	42"	32"	24"	26"	16"	4"	6"
18"	22"	48"	30"	42"	32"	24"	26"	16"	4"	6"
24"	32"	72"	44"	52"	48"	36"	36"	16"	4"	8"
36"	55"	102"	54"	76"	80"	64"	60"	16"	5"	8"
48"	55"	102"	54"	76"	80"	64"	60"	16"	5"	8"

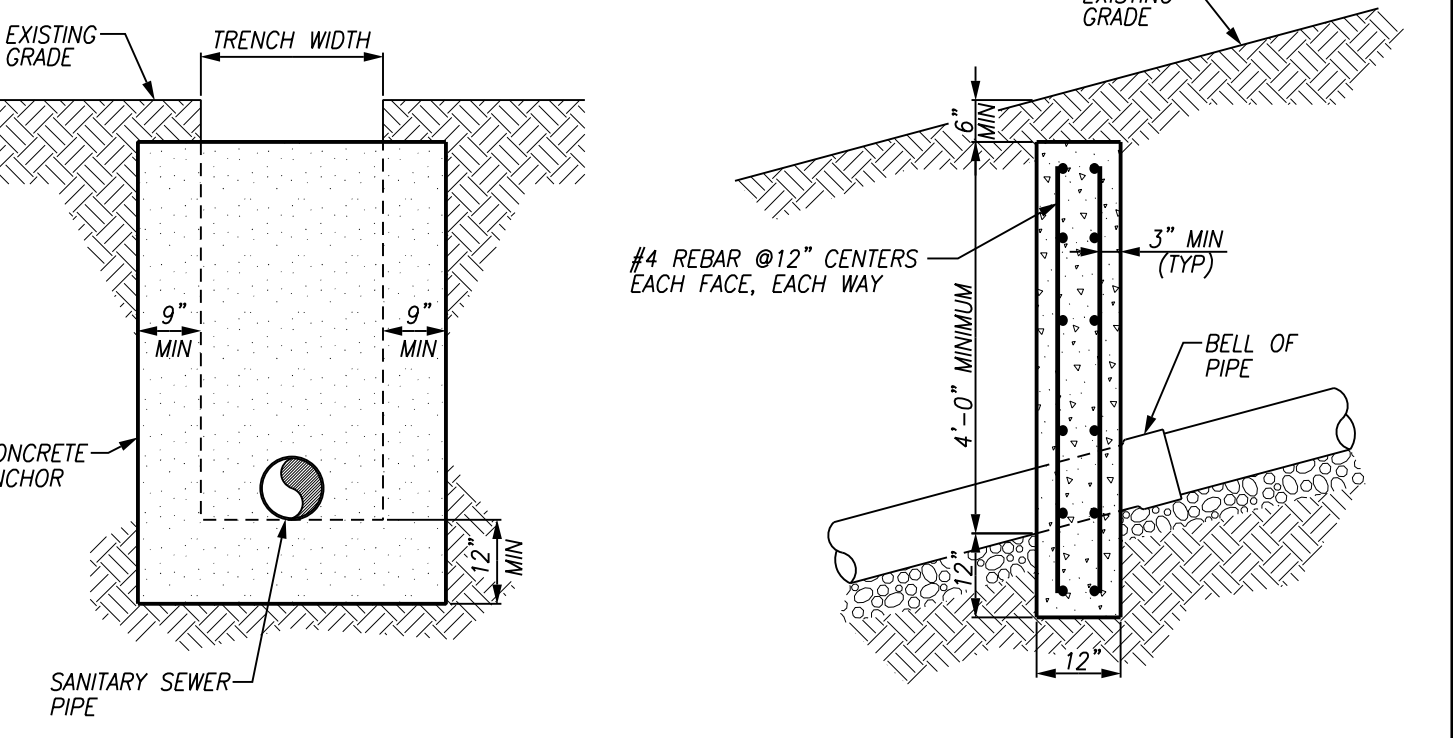
- NOTES:
- CONCRETE: 4500 PSI @ 28 DAYS
 - REINFORCING: #4 BAR @ 12" EACH WAY, GRADE 60
 - MINIMUM REBAR COVERAGE - 2"
 - 3/4" CHAMFER ON ALL EXPOSED EDGES

34 PRECAST CONCRETE HEADWALL
C9.03 NTS



- NOTES:
- BLEEDER DRAINS ARE REQUIRED FOR ALL NEW STORM STRUCTURES LOCATED IN PAVED AREAS.
 - FOR CONNECTIONS TO CATCH BASINS, BLEEDER DRAINS ARE NOT REQUIRED TO EXTEND INTO GRASSED AREAS BEHIND THE CURB.
 - FOR CONNECTIONS TO AREA DRAINS, BLEEDER DRAINS ARE REQUIRED FOR ALL FOUR DIRECTIONS.
 - LENGTH OF BLEEDER DRAIN MAY BE REDUCED IN THE DOWNHILL DIRECTION IN ORDER TO MAINTAIN MIN. COVER.
 - INSTALL PRIOR TO PLACING BASE STONE FOR THE ASPHALT PAVEMENT.

35 PERFORATED PIPE FOR SUBGRADE DRAINAGE
C9.03 NTS



- NOTES:
- INSTALL ANCHORS AT 36' CENTER TO CENTER ON GRADES BETWEEN 18% AND 25%.
 - INSTALL ANCHORS AT 24' CENTER TO CENTER ON GRADES BETWEEN 25% AND 35%.
 - INSTALL ANCHORS AT 16' CENTER TO CENTER ON GRADES BETWEEN 35% AND OVER.

36 CONCRETE ANCHOR DETAIL
C9.03 NTS



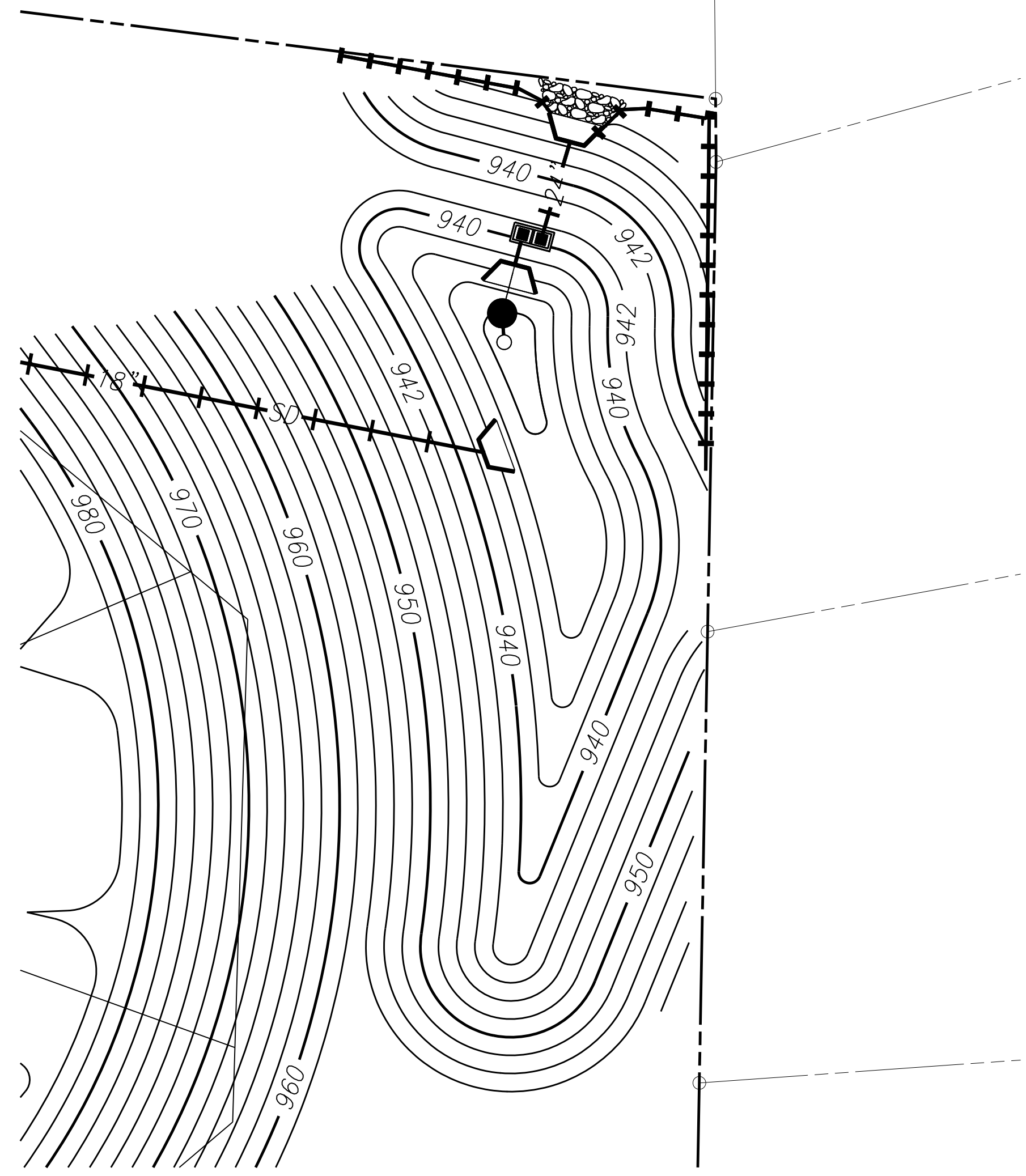
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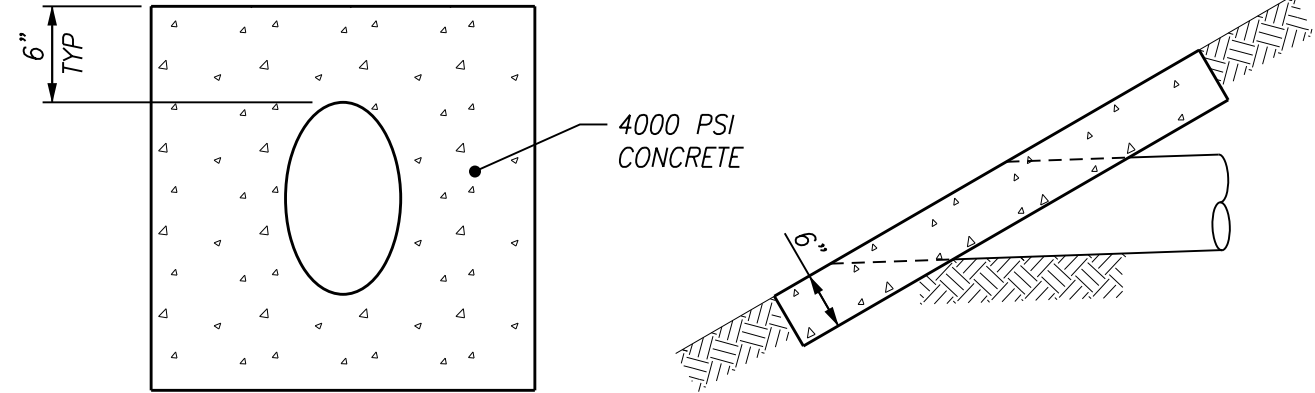


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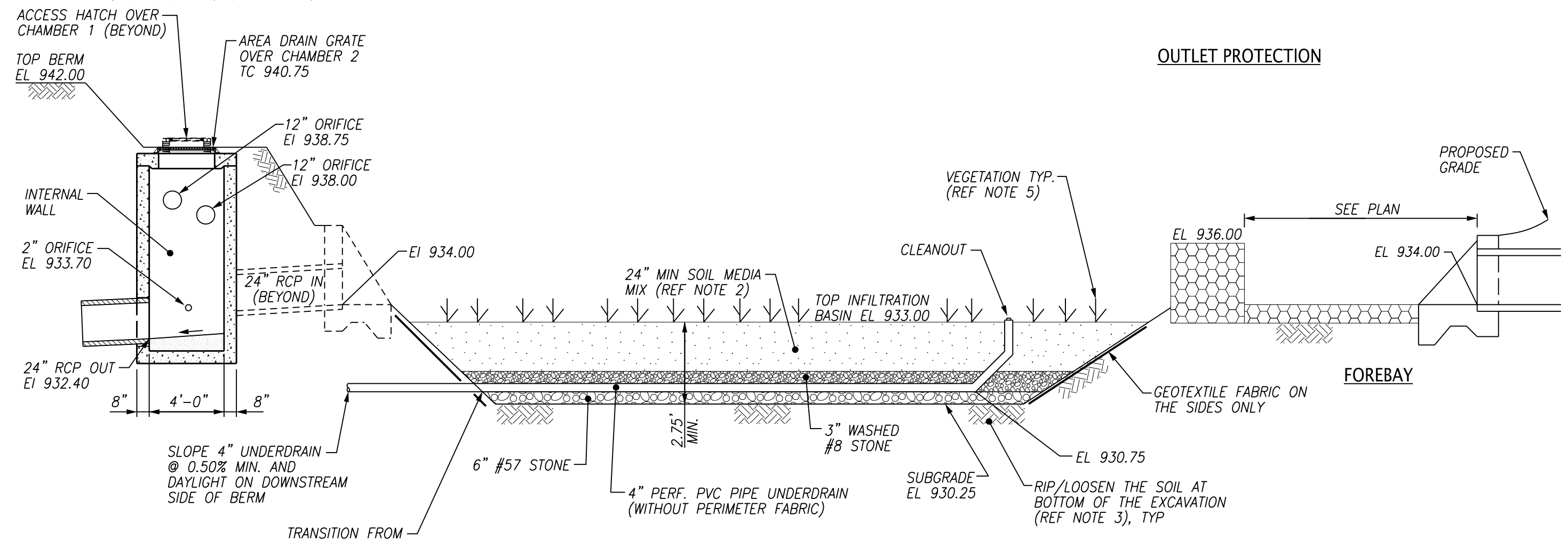
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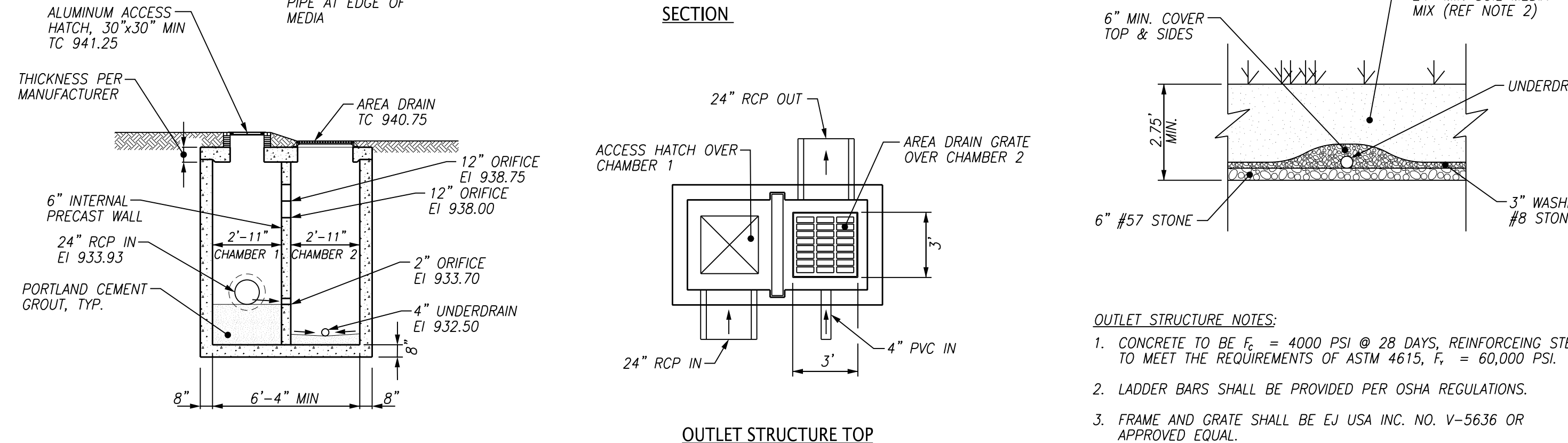
- INFILTRATION BASIN NOTES:**
- BEGIN CONSTRUCTION OF THE VEGETATED INFILTRATION BASIN AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED AND IMPLEMENT TEMPORARY EPSC MEASURES TO DIVERT STORMWATER AWAY FROM THE BASIN UNTIL IT IS COMPLETED.
 - THE SOIL MEDIA SHALL BE UNIFORM AND FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR MATERIAL GREATER THAN 2 INCHES AND A HOMOGENOUS SOIL MIX OF 75% BY VOLUME SAND (USDA SOIL TEXTURAL CLASSIFICATION, COMBINATION OF 25% 3/8" AGGREGATE, WASHED #8 LIMESTONE AND 75% COARSE RIVER SAND, ASTM 33), 15% SANDY LOAM (APPROX. 60% SAND, 30% SILT, 10% CLAY), AND 10% ORGANIC MATTER (SUCH AS PEAT MOSS OR COMPOST WITH A SOLVITA TEST INDICATING MATURATION LEVEL SUFFICIENT TO PROVIDE A FERTILE ORGANIC COMPONENT TO THE SOIL. THE PHOSPHOROUS CONTENT OF SOIL MIX SHOULD BE LOW WITH A P-INDEX BETWEEN 10 TO 30. TEST THE SOIL MEDIA AFTER PLACEMENT. THE PERMEABILITY SHALL BE BETWEEN 2-6 INCHES PER HOUR. CONTACT TOTAL PROPERTY MANAGEMENT, ROBERT WHITAKER, 865.771.0436 OR EQUAL.
 - REMOVE ACCUMULATED SEDIMENT AND RIP/LOOSEN THE BOTTOM SOILS (SUBGRADE) TO A DEPTH OF 6 TO 12 INCHES TO PROMOTE GREATER INFILTRATION AND PROTECT IT FROM COMPACTION AND OTHER CONSTRUCTION ACTIVITIES.
 - DELIVER OR PREPARE THE SOIL MEDIA AND STORE IT ON AN ADJACENT IMPERVIOUS AREA OR PLASTIC SHEETING. APPLY THE MEDIA IN 12-INCH LIFTS UNTIL THE DESIRED SURFACE ELEVATION. AFTER 5 DAYS, CHECK FOR SETTLEMENT, AND ADD ADDITIONAL MEDIA, AS NEEDED, TO ACHIEVE THE DESIGN ELEVATION.
 - SEED THE AREA WITH SOUTHEAST RAIN GARDEN MIX (ITEM #ERNMX-180-2) AS PROVIDED BY ERNST SEEDS (800.873.3321). PREPARE THE BED, APPLY SEED PER THE RECOMMENDATIONS OF ERNST SEEDS. WATER AS NECESSARY DURING WEEKS OF NO RAIN FOR THE FIRST TWO MONTHS.
 - IF THE SURFACE COVERAGE IS LESS THAN 50% WITHIN 60 DAYS OF PLANTING, REWORK THE GROUND AND RESEED.
 - IF SITE CONSTRUCTION WILL CONTINUE, CORDON-OFF THE BASIN FROM CONSTRUCTION TRAFFIC AND KEEP THE AREA FREE OF SEDIMENT AND DEBRIS.
 - FOR THE FIRST 6 MONTHS FOLLOWING CONSTRUCTION, INSPECT THE BASIN AT LEAST TWICE AFTER STORM EVENTS THAT EXCEED 0.5 INCH OF RAINFALL.
 - ACHIEVE SURFACE AREA COVERAGE OF AT LEAST 75% IN THE FIRST TWO YEARS OF PLANT GROWTH.



OUTLET PROTECTION

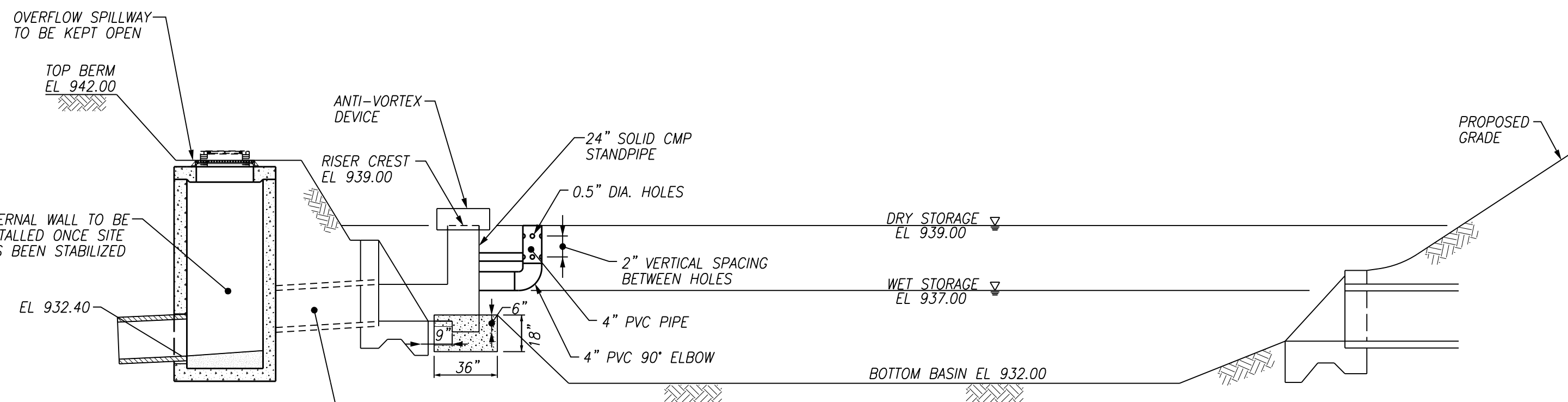


SECTION

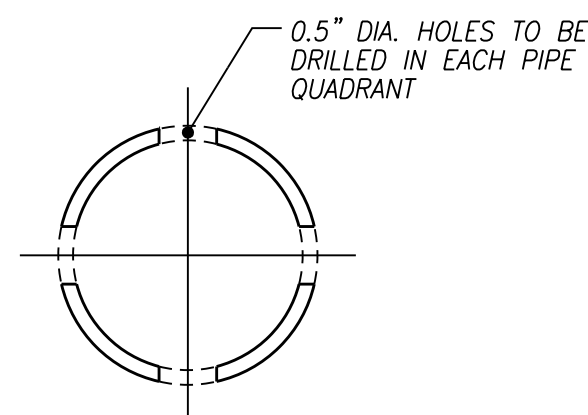


OUTLET STRUCTURE TOP

- OUTLET STRUCTURE NOTES:**
- CONCRETE TO BE $F_c = 4000$ PSI @ 28 DAYS, REINFORCING STEEL TO MEET THE REQUIREMENTS OF ASTM 4615, $F_y = 60,000$ PSI.
 - LADDER BARS SHALL BE PROVIDED PER OSHA REGULATIONS.
 - FRAME AND GRATE SHALL BE EU USA INC. NO. V-5636 OR APPROVED EQUAL.
 - ACCESS HATCH SHALL BE 30" X 30" MIN. ALUMINUM, LOCKABLE, AND SELF-SUPPORTING WHEN IN OPEN POSITION, AS PROVIDED BY C.R. BARGER & SONS, INC. OR APPROVED EQUAL.



SECTION



PERFORATED PIPE TOP

- NOTES:**
- INSTALL 4" PERFORATED PIPE. SET CONNECTION COUPLING AT EL 937.00
 - STORAGE VOLUME REQUIRED: 369 CY DRY AND 369 CY WET STORAGE VOLUME PROVIDED: 370 CY DRY AND 391 CY WET

37 SEDIMENT BASIN 4 - STAGE 1 & 2
C9.04 NTS

38 INFILTRATION BASIN 1 & OS 29
C9.04 NTS



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