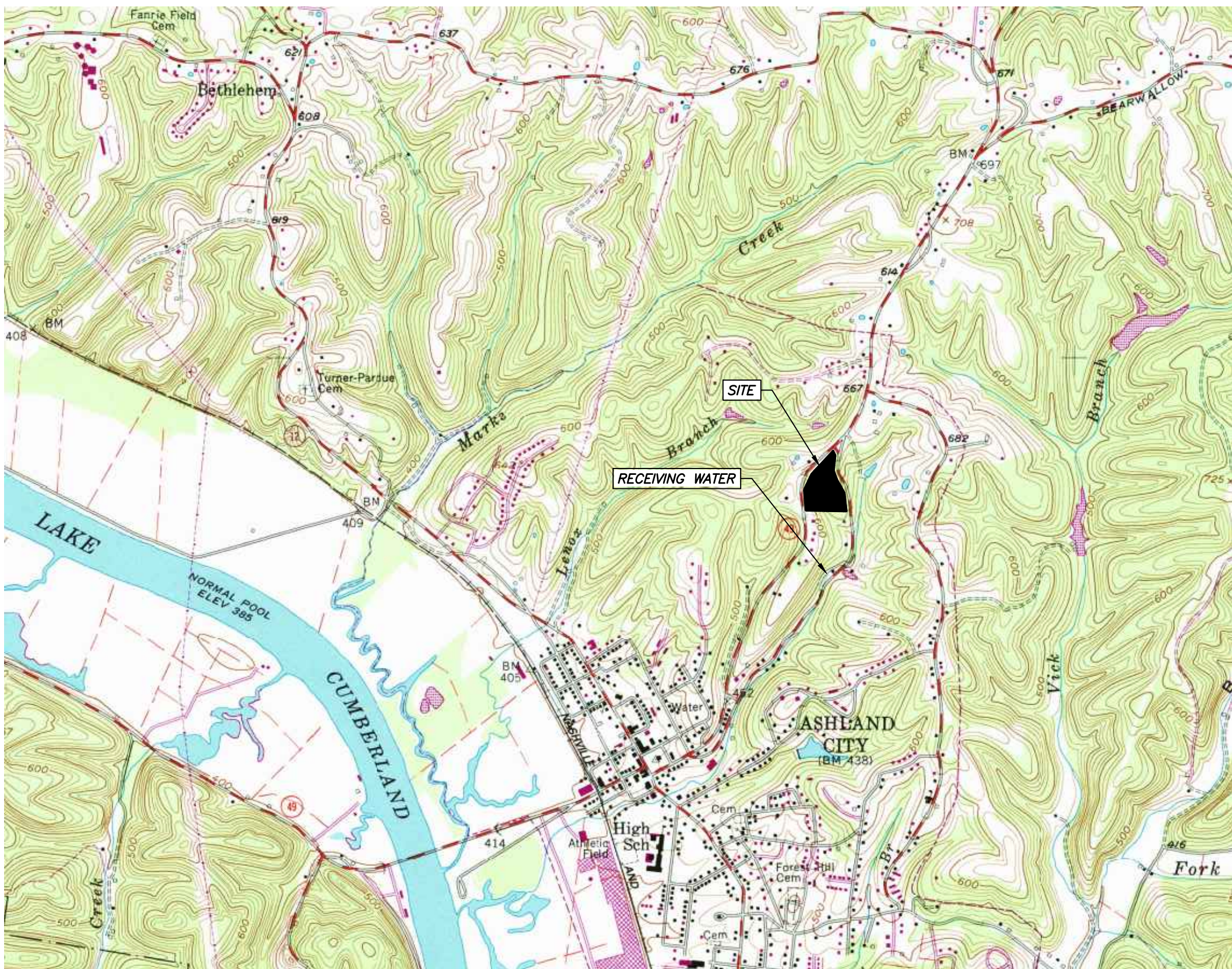


CONTACTS:

DEVELOPER – SOCAYR, INC.
1244 SOUTH 4TH STREET
LOUISVILLE, KY 40203
CONTACT: JOSH HOOPER
(502) 634-9830 EXT. 135

TENNESSEE ONE CALL
PHONE: 1-800-351-1111

TENNESSEE DEPARTMENT OF TRANSPORTATION
1918 WILMA RUDOLPH BLVD
CLARKSVILLE, TN 37040
PHONE: 931-648-5570



"ASHLAND CITY" NTS

LEGEND

ARV = AIR RELEASE VALVE
 TP = TELEPHONE POLE
 PP = POWER POLE
 RCP = REINFORCED CONCRETE PIPE
 CMP = CORRUGATED METAL PIPE
 CB = CATCH BASIN
 JB = JUNCTION BOX
 WM = WATER METER
 WM = WATER METER
 WV = WATER VALVE
 CO = CLEANOUT
 AD = AREA DRAIN
 FH = FIRE HYDRANT 
 IP(O) = IRON PIN OLD
 IP(N) = 1/2" IRON PIN NEW SET CAP NO. 1837
 R.O.W. = RIGHT OF WAY
 M.B.S.L. = MINIMUM BUILDING SETBACK LINE
 P.U. & D. = PUBLIC UTILITY & DRAINAGE EASEMENT
 POINT OF CURVATURE: O
 EASEMENT LINE:
 MINIMUM BUILDING SETBACK LINE: ————
 CENTERLINE:
 BOUNDARY LINE:
 RIGHT-OF-WAY LINE:
 CONT. = CONTINUOUS
 OVERHEAD ELECTRIC: ———— OHE ———— 500' ———— OHE
 OVERHEAD TELEPHONE: ———— OHT ———— OHE
 GAS MAIN: ———— G ———— G ———— G ———— G
 WATER MAIN: ———— 6"W ———— 6"W ———— 6"W
 FORCEMAIN SEWER: ———— FM ———— FM
 STORAGE PIPE: ———— S ———— S ———— S ———— S
 FENCE: ———— F ———— F ———— F ———— F ———— F

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- C0.0 – TITLE SHEET
- C0.1 – NOTES
- C1.0 – SITE LAYOUT
- C1.1 – LANDSCAPING PLAN
- C1.2 – LIGHTING PLAN
- C2.0 – UTILITIES
- C3.0 – SWPPP
- C3.1 – EPSC PHASE I
- C3.2 – EPSC PHASE II
- C3.3 – EPSC PHASE III
- C4.0 – GRADING & DRAINAGE
- C5.0 – TDOT CONNECTION
- C6.0 – RETAINING WALL #1
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- C7.0 – GENERAL DETAILS
- C7.1 – GENERAL DETAILS
- C7.2 – PUMP STATION DETAILS
- C7.3 – PUMP STATION DETAILS
- C7.4 – PUMP STATION DETAILS



EARTHWORK NOTES:

THE CONTRACTOR SHALL PROTECT ALL TREES DESIGNATED TO REMAIN. A PRE-CONSTRUCTION MEETING SHALL TAKE PLACE BEFORE ANY CLEARING BEGINS TO DETERMINE WHICH TREES SHALL REMAIN. DO NOT OPERATE NOR STORE HEAVY EQUIPMENT, NOR HANDLE/STORE MATERIALS WITHIN THE DRIPLINES OF TREES THAT WILL REMAIN.

THE CONTRACTOR SHALL INSTALL AN ORANGE BARRIER FENCE AROUND THE DRIP LINE OF ALL TREES TO REMAIN. IF FOR ANY REASON THE FENCING IS DAMAGED THE CONTRACTOR SHALL IMMEDIATELY MAKE REPAIRS.

EVERY EFFORT SHALL BE TAKEN BY THE CONTRACTOR TO LIMIT THE DISTURBANCE OF SOILS TO THE AREAS INDICATED ON THE PLANS.

TOPSOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS AND STOCKPILED IN FREE DRAINING AREAS. INSTALL EROSION AND SEDIMENTATION CONTROLS AROUND STOCKPILES.

PROVIDE TEMPORARY SEEDING ON STOCKPILES AND ALL OTHER AREAS OF THE SITE THAT WILL REMAIN UNDISTURBED FOR 30 DAYS OR MORE.

AFTER STRIPPING TOPSOIL, PROOFROLL SUBGRADE WITH A LOADED DUMP TRUCK WITH A MINIMUM WEIGHT OF 20 TONS. CONTRACTOR SHALL EMPLOY A GEOTECHNICAL ENGINEER TO PERFORM PROCTOR TESTS IN ACCORDANCE WITH ASTM D1557.

ENGINEERED FILL SHALL BE PLACED IN MAXIMUM 8" COMPACTED LIFTS WITH DENSITY OF 95% OF MAXIMUM DRY DENSITY PER ASTM D1557.

ALL GRADED AREAS SHALL RECEIVE 4" OF TOPSOIL AND BE SEEDED AND MULCHED WITHIN 15 DAYS AFTER GRADING IS COMPLETED. SATISFACTORY TOPSOIL IS DEFINED AS SOIL BEING FREE OF SUBSOIL, CLAY LUMPS, STONES, OTHER OBJECTS OVER 1" IN DIAMETER, OR CONTAMINANTS.

ALL CURBS AND SIDEWALKS SHALL BE BACKFILLED WITH TOPSOIL, SEEDED, AND MULCHED, UNLESS OTHERWISE NOTED.

ALL CUT AND FILL SLOPES TO BE 3:1 MAXIMUM UNLESS SPECIFICALLY NOTED ON PLANS.

FINISH GRADE TOLERANCES ARE 0.10 FEET ABOVE OR BELOW DESIGN ELEVATIONS.

ALL ROADWAYS SHALL BE BLUETOPPED ON THE CENTERLINE AND 2 FEET BEHIND ALL CURBLINES A MINIMUM OF EVERY FIFTY FOOT STATION BEFORE ACCEPTANCE OF THE SUBGRADE. ROADS HAVING SLOPES LESS THAN 1% SHALL BE BLUETOPPED AT TWENTY FIVE FOOT INTERVALS.

ALL BUILDING PADS SHALL BE COMPACTED WITH ENGINEERED FILL. 10' BEYOND THE LIMITS OF THE PAD, ROADWAYS SHALL BE COMPACTED WITH ENGINEERED FILL A MINIMUM OF 5' BEYOND THE PROPOSED BACK OF CURB LINE. SEWER LINES LOCATIONS SHALL BE COMPACTED WITH ENGINEERED FILL 10' ON EACH SIDE OF THE SEWER CENTERLINE.

NUCLEAR DENSITY TESTING SHALL BE PERFORMED ON ALL LIFTS ON ENGINEERED FILL. A GEOTECHNICAL ENGINEER SHALL CERTIFY THAT EACH LIFT IS COMPACTED TO A DENSITY OF 95% OF MAXIMUM DRY DENSITY PER ASTM D1557.

SOLID ROCK SHALL BE DEFINED AS (1) ROCK WHICH CANNOT BE ECONOMICALLY EXCAVATED WITHOUT THE USE OF EXPLOSIVES OR (2) ANY ROCK, BOULDER OR FRAGMENT OF ROCK OR CONCRETE EXCAVATED FROM A FOUNDATION HAVING A VOLUME GREATER THAN ONE HALF (½) CUBIC YARD.

SHOULD SOLID ROCK BE ENCOUNTERED AND EXCAVATION OF SOLID ROCK IS COVERED WITHIN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. REPRESENTATIVES OF THE ENGINEER SHALL MEASURE THE SOLID ROCK EXCAVATION TO DETERMINE THE QUANTITY OF SOLID ROCK EXCAVATED.

EROSION CONTROL & SEDIMENT PREVENTION NOTES:

A COMPLETED NOTICE OF INTENT (NOI) AND APPLICATION FEE (MAKE CHECKS PAYABLE TO "TREASURER STATE OF TENNESSEE") SHALL BE SUBMITTED TO THE LOCAL ENVIRONMENTAL ASSISTANCE CENTER (EAC) BY THE OWNER, WHO WILL BE THE PRIMARY PERMITTEE, AT LEAST THIRTY DAYS BEFORE CONSTRUCTION BEGINS.

CONSTRUCTION SHALL NOT BEGIN UNTIL A NOTICE OF COVERAGE (NOC) IS RECEIVED FROM THE STATE. THE NOC SHALL BE POSTED NEAR THE SITE ENTRANCE.

EACH CONTRACTOR AND SUB-CONTRACTOR THAT IS RESPONSIBLE FOR THE INSTALLATION, INSPECTIONS, OR MAINTENANCE OF EROSION OR SEDIMENT CONTROL MEASURES IS CONSIDERED A SECONDARY PERMITTEE AND MUST ALSO UNDERSTAND AND FOLLOW THIS DOCUMENT. ALL SECONDARY PERMITTEES WITH THE ORIGINAL TRACKING NUMBER TO THE LOCAL EAC AT LEASE SEVEN DAYS BEFORE BEGINNING WORK. NO ADDITIONAL FEES ARE REQUIRED OF SECONDARY PERMITTEES. THE CONTRACTOR SHALL MAINTAIN RECORDS OF GRADING ACTIVITIES AND STABILIZATION PRACTICES THROUGHOUT THE ENTIRE PROJECT.

PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 10 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.

CONSTRUCTION MUST BE PHASED FOR PROJECTS IN WHICH OVER 50 ACRES OF SOIL WILL BE DISTURBED. AREAS OF THE COMPLETED PHASE MUST BE STABILIZED WITHIN 15 DAYS (SEE SUBSECTION 3.5.5 BELOW). NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION PROJECT.

EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN, AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REPLACED AT THE END OF THE WORKDAY.

THE FOLLOWING RECORDS SHALL BE MAINTAINED ON OR NEAR SITE: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; THE DATES WHEN STABILIZATION MEASURES ARE INITIATED; INSPECTION RECORDS AND RAINFALL RECORDS.

PERMITTEES SHALL MAINTAIN A RAIN GAUGE AND DAILY RAINFALL RECORDS AT THE SITE, OR USE A REFERENCE SITE FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION.

THE CONTRACTORS SHALL USE WATER SPRINKLING AND OWNER SUITABLE METHODS AS NECESSARY TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION WORK.

CONSTRUCT TEMPORARY EROSION CONTROL AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING GRADING OPERATIONS.

ALL DRAINAGE STRUCTURES, PIPES WITHIN THE LIMITS OF CONSTRUCTION, DETENTION PONDS SHALL HAVE SEDIMENT REMOVED PRIOR TO FINAL ACCEPTANCE.

SILT BARRIERS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN APPROXIMATELY 50% FILLED.

TEMPORARY EROSION CONTROL DEVICES SHALL BE REMOVED WHEN THE SITE IS STABILIZED AND DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE.

TOP OF GRATE ELEVATIONS FOR CURB INLETS ARE GIVEN TO THE CENTER OF THE INLETS AT THE FACE OF CURB. THE GRATES SHALL SLOPE LONGITUDINALLY WITH THE PAVEMENT GRADE. ADJUST THE CASTING TO FALL ALONG THE CURB LINE.

EROSION CONTROL & SEDIMENT PREVENTION NOTES (CONT'D.):

ALL PIPES UNDER PAVED AREAS SHALL BE BACKFILLED WITH CRUSHED STONE. ALL PIPES UNDER LAWN AREAS SHALL BE BACKFILLED WITH SATISFACTORY MATERIAL COMPACTED TO 95% OF MAXIMUM PER ASTM D1557.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, & RESTORING ALL DRAINAGE SYSTEMS. THE CONTRACTOR SHALL MAINTAIN AND/OR IMPROVE EXISTING AND PROPOSED DRAINAGE SYSTEMS TO ASSURE NO ADVERSE EFFECTS ON ADJOINING PROPERTIES DURING CONSTRUCTION.

ALL DITCHES AND BASINS, UNLESS NOTED ON PLANS, SHALL BE SEEDED, STRAWED, & MATTED UNLESS OTHERWISE NOTED. MATTING SHALL BE TYPE S 150 (NORTH AMERICAN GREEN) OR EQUIVALENT AND SHOULD BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.

CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL REQUIREMENTS OF THE TDEC GENERAL NPDES PERMIT TNR-10-0000.

CONTRACTOR SHALL INSPECT EROSION CONTROL ON SITE BEFORE EACH FORECASTED RAIN, AFTER EACH RAIN OF 0.5" OR MORE, AND AT LEAST TWICE EVERY WEEK. ALL INSPECTIONS SHALL BE DOCUMENTED AND TURNED IN WITH PAYMENT REQUESTS.

CONTRACTOR TO INSTALL ADDITIONAL SILT FENCE ALONG CURB LINE AFTER CURBS ARE BACKFILLED. LOCATION TO BE SPECIFIED BY ENGINEER.

CONSTRUCTION EXITS SHALL BE CONSTRUCTED AT ALL LOCATIONS WHERE INDICATED ON PLANS. CONTRACTOR SHALL CONTACT ENGINEER FOR APPROVAL OF ADDITIONAL CONSTRUCTION EXIT LOCATIONS WHERE VEHICLES OR EQUIPMENT ACCESS PUBLIC ROADWAYS.

CONTRACTOR TO CONSTRUCT 18" DEEP OVERFLOW SWALES FROM ROADWAY INLET TO HEADWALL AT APPLICABLE LOT LINES.

UPON COMPLETION OF THE SITE STABILIZATION, THE OWNER AND CONTRACTOR SHALL PROVIDE A NOTICE OF TERMINATION (NOT) FOR THE PROJECT TO THE LOCAL ENVIRONMENT ASSISTANCE CENTER.

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING ALL PHASES OF CONSTRUCTION TO MAINTAIN THE INTEGRITY OF ALL SINKHOLES. THE CONTRACTOR SHALL INSTALL EROSION CONTROL AND SEDIMENT CONTROL AS SHOWN ON PLANS TO PROTECT THE SINKHOLE FROM SILTATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ADDITIONAL SEDIMENT CONTROL MEASURES BECOME NECESSARY.

GENERAL PROJECT NOTES:

NOTIFY ENGINEER IMMEDIATELY UPON DISCOVERY OF HAZARDOUS MATERIALS.

THE CONTRACTOR SHALL NOTIFY THE TENNESSEE ONE-CALL SYSTEM, INC. (TOCS) AT 1-800-351-1111 AND ANY NON TOCS MEMBER UTILITY INDIVIDUALLY AT LEAST 3 WORKING DAYS PRIOR TO ANY EXCAVATION AND/OR DEMOLITION.

UNDERGROUND STRUCTURES & UTILITIES SHOWN ARE STRICTLY APPROXIMATE IN LOCATION AND DEPTH, AND MAY NOT BE THE ONLY UTILITIES PRESENT. THE CONTRACTOR SHALL VERIFY FIELD SIZES, LOCATION AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. NOTIFY ENGINEER OF ANY DISCREPANCIES.

CONTRACTOR SHALL PROVIDE PROTECTION TO ALL STREETS, FENCES, TREES, UTILITIES AND STRUCTURES THAT ARE TO REMAIN. CONTRACTOR-CAUSED DAMAGE SHALL BE REPAIRED TO EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.

THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL PERMITS, AND PAY ALL PERMIT AND TAP FEES PRIOR TO BEGINNING WORK.

PROVIDE A SMOOTH TRANSITION BETWEEN PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES PRIOR TO INSTALLATION OF PAVEMENT.

DIMENSIONS ARE TO THE FACE OF CURB, EDGE OF CONCRETE, OR TO THE FACE OF BUILDING, UNLESS OTHERWISE NOTED.

MAINTAIN ONE SET OF AS-BUILT DRAWINGS ON THE JOB SITE FOR DISTRIBUTION TO THE ENGINEER UPON COMPLETION. AS-BUILTS SHALL INCLUDE LOCATIONS AND ELEVATIONS OF WATER MAIN, APPURTENANCES & SERVICES, SEWER MAINS, MANHOLES AND SERVICES, STORM STRUCTURES, STORM WATER BASINS, AND STORM WATER QUALITY DEVICES.

OBSERVANCE OF THE CONTRACTOR'S WORK BY REPRESENTATIVES OF THE ENGINEER'S OFFICE SHALL NOT RELIEVE THE CONTRACTOR OF THE FINAL AND ULTIMATE RESPONSIBILITY FOR THE CONSTRUCTION OF THE IMPROVEMENTS IN ACCORDANCE WITH THESE PLANS AND ANY REFERENCED SPECIFICATIONS, STANDARD DRAWINGS OR DETAILS.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING AT LEAST 10 WORKING DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION IN ORDER TO SCHEDULE A PRE-CONSTRUCTION MEETING.

IN THE EVENT OF ANY DISCREPANCIES FOUND IN THE DRAWINGS OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL CONSTRUCTION SHALL BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPONSIBLE GOVERNMENTAL AGENCIES.

ANY DEVIATIONS FROM THE PLANS MUST BE APPROVED BY THE ENGINEER.

WHEN THE WORK AREA IS AN AREA OF DIRECT PUBLIC ACCESS, THE WORK AREA SHALL BE BARRICADED AND ILLUMINATED DURING DARKNESS AND PERIODS OF INACTIVITY.

CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY SYSTEM TO MEET ALL APPROPRIATE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.

ANY SHOP DRAWINGS REQUIRED MUST BE APPROVED BY THE ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION. DESIGNS PROVIDED BY OTHERS MUST BE SIGNED AND SEALED AS REQUIRED BY TENNESSEE STATUTES.

THE CONTRACTOR SHALL MAKE A PHYSICAL INSPECTION OF THE SITE BEFORE SUBMITTING A PROPOSAL FOR THE PROJECT. IT IS ASSUMED THAT THE CONTRACTOR HAS EXAMINED THE PLANS, SPECIFICATIONS AND THE SITE BEFORE SUBMITTING A PROPOSAL. ANY ITEMS THAT WOULD BE REASONABLY REQUIRED FOR CONSTRUCTION, WHETHER OR NOT SPECIFICALLY DENOTED IN THE PLANS SHALL BE PROVIDED BY THE CONTRACTOR.

SHOULD A CONFLICT EXIST BETWEEN THE PLANS, SPECIFICATION OR THE REQUIREMENTS OF OFFICIALS OF INVOLVED GOVERNING BODIES, THE MORE STRINGENT SHALL APPLY.

BEARINGS AND/OR DISTANCES SHOWN ON THE PLANS SHALL TAKE PRECEDENCE OVER SCALE. NOTIFY THE ENGINEER OF ANY DISCREPANCY.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY DAMAGE DONE TO ADJOINING PROPERTIES DURING CONSTRUCTION.

ALL SIDEWALKS SHALL BE BUILT IN ACCORDANCE WITH ADA REGULATIONS & GUIDELINES, INCLUDING THE INSTALLATION OF CURB RAMPS AND ALL ASSOCIATED APPURTENANCES.

UTILITY NOTES:

THE CONTRACTOR SHALL PROTECT ALL UTILITY MANHOLES, VALVES, BOXES AND COVER, AND ADJUST TO PROPOSED FINISHED GRADES AS NECESSARY.

- DUCTILE IRON PIPE
 - DUCTILE IRON PIPE SHALL BE SUPPLIED AND MANUFACTURED IN ACCORDANCE WITH AWWA SPECIFICATION C-151, AS LAST REVISED.
 - DUCTILE IRON PIPE SHALL BE PRESSURE CLASS 350, OR AS SHOWN ON DRAWINGS. PIPE SHALL BE FURNISHED IN 18 TO 20 FOOT NOMINAL LAYING LENGTHS AND SHALL BE BELL AND SPIGOT TYPE, EMPLOYING A SINGLE RUBBER GASKET TO EFFECT THE JOINING SEAL, "TYTON JOINT" OR APPROVED EQUAL IN ACCORDANCE WITH AWWA SPECIFICATION C-104.
 - ALL PIPE SHALL BE LINED WITH 40 MILS NOMINAL DRY FILM THICKNESS OF "PROTECTO 401 CERAMIC EPOXY."
- FITTINGS
 - ALL FITTINGS SHALL BE MANUFACTURED IN CONFORMANCE WITH AWWA SPECIFICATION C-110 AND C-111 WITH A MINIMUM PRESSURE RATING OF 350 P.S.I.
 - JOINTS SHALL BE MECHANICAL JOINT FURNISHED SYNTHETIC RUBBER COMPOUND OR RUBBER GASKETS.
 - ALL FITTINGS SHALL BE LINED WITH 40 MILS NOMINAL DRY FILM THICKNESS OF "PROTECTO 401 CERAMIC EPOXY."

WATER SERVICE PIPE MATERIAL MAY BE MUNICIPEX CROSSLINKED POLYETHYLENE (PEXa) BY Rehau, OR ALTERNATIVELY MAY BE TYPE K SOFT COPPER.

WHERE COMPRESSION FITTINGS ARE USED ON MUNICIPEX PIPE, INSERT STIFFENERS ARE REQUIRED TO ENSURE A PROPER CONNECTION IS MADE. PLASTIC INSERT STIFFENERS ARE TO BE USED WHERE PIPE IS LESS THAN 2 INCHES IN DIAMETER AND STAINLESS STEEL INSERT STIFFENERS ARE TO BE USED WHERE PIPE IS 2-INCH DIAMETER AND LARGER.

TRACER WIRE SHALL BE INSTALLED ALONG ALL WATER MAIN AND WATER SERVICES AND ANY SEWER FORCE MAIN AND FORCE MAIN SERVICES. TRACER WIRE SHALL BE Copperhead 1230-HS, 12 AWG COPPER-CLAD STEEL TRACER WIRE WITH 30 MIL HDPE COATING, NO SUBSTITUTION ALLOWED. CONNECTORS AT SERVICE CONNECTIONS AND TEES SHALL BE DryConn Direct Bury Lug Aqua BY King Innovation AND AT MAIN LINE SPLICES SHALL BE DryConn King 6 Blue BY King Innovation, NO SUBSTITUTIONS ALLOWED. TRACER WIRE SHALL EXTEND AT LEAST FIVE FEET BEYOND WATER SERVICE STUB TERMINATIONS. A PIECE OF PVC PIPE SHALL BE BURIED VERTICALLY AGAINST THE 4"x4" MARKER POST EXTENDING AND ABOUT TWO INCHES ABOVE GROUND LEVEL. THE TRACER WIRE SHALL BE FED THROUGH THE PVC PIPE WITH THE END OF THE WIRE ABOUT TWO INCHES ABOVE THE END OF THE PIPE AND THE REMAINDER COILED AND BURIED BENEATH IT. A PERFORMANCE TEST WILL BE PERFORMED ON THE COMPLETED TRACER WIRE SYSTEM TO ENSURE THE ENTIRE SYSTEM IS TRACKABLE. ANY PART OF THE SYSTEM THAT IS NOT TRACKABLE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR UNTIL IT IS TRACKABLE PRIOR TO FINAL ACCEPTANCE OF UTILITIES.

CURBING CONTRACTOR SHALL MARK WATER AND SEWER SERVICE LOCATION IN CURB DURING POURING. A "W" SHALL BE STAMPED ON THE CURB FACE AT ALL WATER LATERAL LOCATION. A "S" SHALL BE STAMPED ON THE CURB FACE AT ALL SEWER LATERAL LOCATIONS.

NO WATER SERVICE APPARATUS OF ANY KIND SHALL BE PLACED IN A.C. OR CONCRETE AREAS.

WATER SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL STATE & LOCAL CODES, SPECIFICATIONS, AND REGULATIONS. CLEANED, DISINFECTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS.

SANITARY SEWER SYSTEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL STATE & LOCAL CODES, SPECIFICATIONS, AND REGULATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES AND UNDERGROUND ELECTRIC DO NOT CONFLICT WITH SANITARY SEWERS OR STORM SEWERS.

BACKFILL UTILITY TRENCHES UNDER PAVEMENT AREAS WITH CRUSHED STONE OR GRAVEL. BACKFILL UTILITY TRENCHES IN LAWN AREAS WITH SATISFACTORY FILL MATERIAL COMPACTED TO AT LEAST 95% OF MAXIMUM PER ASTM D1557.

PROVIDE AS-BUILT DRAWINGS WHICH INCLUDE AT LEAST TWO DIMENSIONS TO EACH VALVE AND MANHOLE FROM KNOWN SITE FEATURES. DRAWINGS SHALL INCLUDE VERTICAL AND HORIZONTAL INFORMATION ON ALL NEW UTILITIES AS WELL AS EXISTING UTILITIES ENCOUNTERED.

CONTRACTOR SHALL MAINTAIN A MINIMUM 10' HORIZONTAL AND 18" VERTICAL CLEARANCE BETWEEN WATER, FORCEMAINS, & GRAVITY SEWER LINES WHERE SUCH LINES CROSS.

ALL WATER MAINS, UNLESS NOTED ON PLANS, SHALL BE MADE OF SDR 21 PVC MEETING ASTM D-2241 SPECIFICATIONS & SHALL HAVE A MINIMUM COVER OF 3 FEET IN NON-TRAFFIC AREAS AND 4 FEET OF COVER IN TRAFFIC AREAS. WATERLINE DEPTH SHALL BE GREATER AS NECESSARY TO AVOID SEWER, STORM DRAINS AND OTHER UTILITIES.

ALL SEWER MAINS TO BE INSTALLED AT A DEPTH LESS THAN 12 FEET, UNLESS NOTED ON PLANS, SHALL BE MADE OF SDR 35 PVC MEETING ASTM-3034 SPECIFICATION. ALL SEWER MAINS TO BE INSTALLED AT A DEPTH EQUAL TO OR GREATER THAN 12 FEET, UNLESS NOTED ON PLANS, SHALL BE MADE OF SDR 26 PVC MEETING ASTM-3034 SPECIFICATIONS. ALL SEWER MAINS TO BE INSTALLED AT A DEPTH GREATER THAN 20 FEET SHALL BE MADE OF DUCTILE IRON.

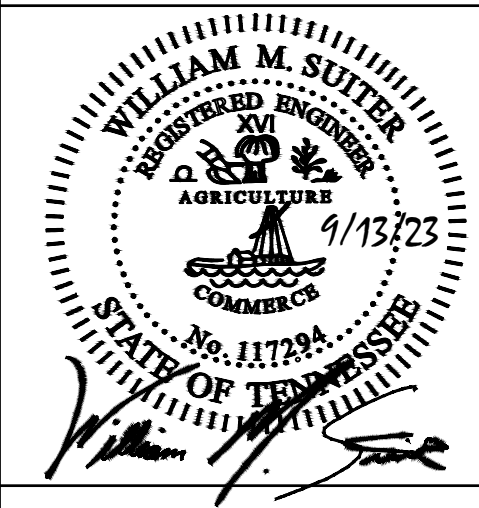
CHECK DAMS SHALL BE INSTALLED AT THE UPSTREAM SIDE OF EACH MANHOLE. CHECK DAMS SHALL CONSIST OF COMPACTED CLAY BEDDING AND BACKFILL AT LEAST THREE FEET THICK TO THE TOP OF THE TRENCH AND CUT INTO WALLS OF THE TRENCH TWO FEET.

SOLID ROCK ENCOUNTERED IN A SEWER TRENCH SHALL BE REMOVED TO A DEPTH OF AT LEAST 6 INCHES BELOW THE FINISHED PIPELINE.

P.O. Box 30271
1805A Alpine Drive
Clarksville, TN, 37040
ph. # (931) 920-1750
Fax # (931) 920-8490
Quiner
Surveying
& Land Planning
CIVIL ENGINEERING & LAND SURVEYING

REV.#	DATE	REVISION
0	5/12/23	INITIAL SUBMITTAL
1	8/4/23	REVISIONS
2	9/13/23	REVISIONS

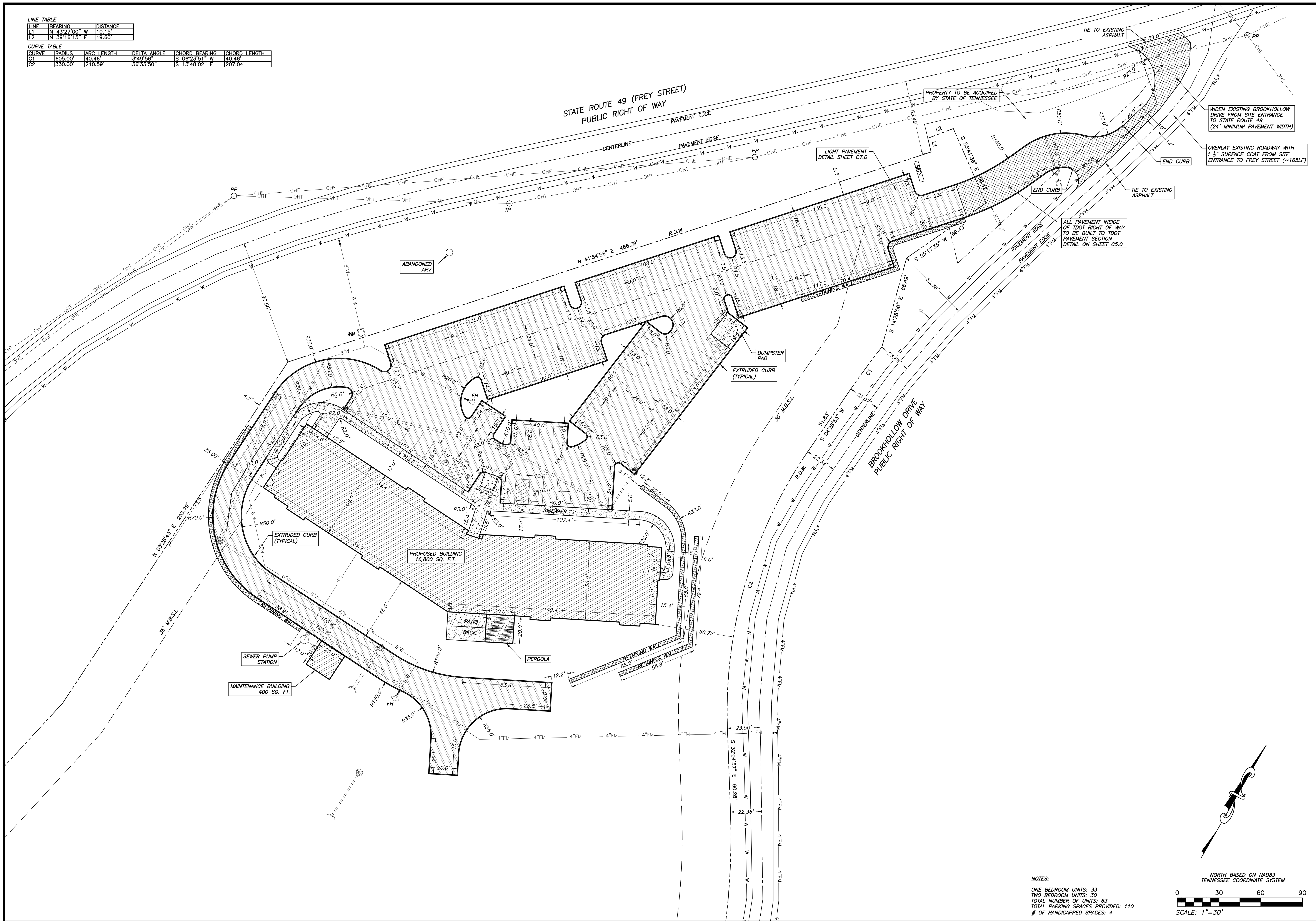
BROOKHOLLOW SENIOR
APARTMENTS
ASHLAND CITY, TN
GENERAL NOTES
SCALE: NONE



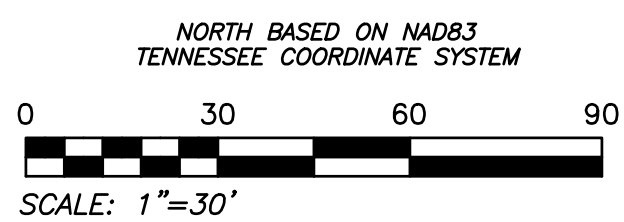
CO.1

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 43°27'00" W	10.15'
L2	N 39°16'15" E	19.60'

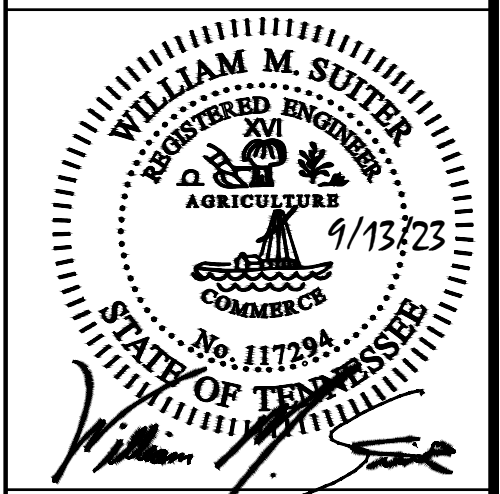
CURVE TABLE					
CURVE	RADIUS	ARC LENGTH	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	605.00'	140.48'	3°49'58"	S 06°23'51" W	40.48'
C2	330.00'	210.59'	36°33'50"	S 13°48'02" E	207.04'



NOTES:
ONE BEDROOM UNITS: 33
TWO BEDROOM UNITS: 30
TOTAL NUMBER OF UNITS: 63
TOTAL PARKING SPACES PROVIDED: 110
OF HANDICAPPED SPACES: 4



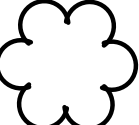
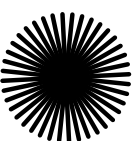
BROOKHOLLOW SENIOR
APARTMENTS
ASHLAND CITY, TN
SITE LAYOUT
SCALE: 1"=30'



C1.0

REV.#	DATE	REVISION
0	5/12/23	INITIAL SUBMITTAL
1	8/4/23	REVISIONS
2	9/13/23	REVISIONS

Suter
Surveying
& Land Planning
CIVIL ENGINEERING & LAND SURVEYING
P.O. Box 30271
1805A Alpine Drive
Clarksville, TN, 37040
ph. # (931) 920-1750
fax # (931) 920-8490

LANDSCAPE SCHEDULE						
QUANTITY	SYMBOL	COMMON NAME	BOTANICAL NAME	HEIGHT	TRUNK	TYPE
16		SUGAR MAPLE	ACER SACCHARUM	2"	D	
8		FLOWERING DOGWOOD	CORNUS FLORIDA	2"	D	
9		YOSHINO CHERRY	PRUNUS YEDOENSIS	2"	D	
10		LITTLE LEAF BOXWOOD	BUXUS MICROPHYLLA	18"	E	



LANDSCAPE NOTES:

NO CERTIFICATE OF OCCUPANCY SHALL BE ISSUED UNTIL ALL LANDSCAPE MATERIALS ARE IN PLACE & IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED LANDSCAPE PLAN.

ALL TREES & SHRUBS SHALL BE TAGGED ACCORDING TO SPECIES. TAGS SHALL NOT BE REMOVED UNTIL AFTER THE SITE INSPECTION FOR THE ISSUANCE OF OCCUPANCY.

ANY PLANT THAT DIES, TURNS BROWN OR DEFLOLIATES SHALL BE REPLACED WITHIN ONE YEAR OR BY THE NEXT GROWING SEASON, WHICHEVER IS SOONER. OTHER DEFECTIVE LANDSCAPE MATERIAL SHALL BE REPLACED WITHIN THREE MONTHS.

ALL TREES SHALL BE STRAIGHT TRUNKED, FULL HEADED & MEET ALL REQUIREMENTS SPECIFIED. ALL TREES & SHRUBS MUST BE CONTAINER GROWN OR BALLED & BURLAPPED WITH SIZES INDICATED ON THE PLANT SCHEDULE ON THE APPROVED PLANS.

ALL PLANTS SHALL BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS & DISEASE. ALL ROOTBALLS, CONTAINERS & HEIGHT TO WIDTH RATIOS SHALL CONFORM TO THE SIZE STANDARDS SET FORTH IN THE AMERICAN STANDARDS FOR NURSERY STOCK, CURRENT EDITION.

ALL REQUIRED DECIDUOUS TREES SHALL BE A MINIMUM OF TWO INCHES IN CALIPER AT PLANTING.

ALL REQUIRED EVERGREEN TREES SHALL BE A MINIMUM OF SIX FEET IN HEIGHT AT PLANTING.

ANY SITE OR LANDSCAPE CHANGES (INCLUDING BUT NOT LIMITED TO A CHANGE IN DESIGN, A REDUCTION IN SIZE OR NUMBER OF PLANT MATERIAL, OR THE RELOCATION OF OVERHEAD OR UNDERGROUND UTILITIES) WILL REQUIRE A REVISED LANDSCAPE PLAN TO BE SUBMITTED AND APPROVED PRIOR TO LANDSCAPE INSTALLATION.

IF PROPOSING ANY LANDSCAPE WITHIN A DEDICATED EASEMENT, THE FOLLOWING NOTE SHOULD BE INCLUDED ON THE LANDSCAPE PLANS:
"THE OWNER ACKNOWLEDGES THAT LANDSCAPING IN A DEDICATED EASEMENT DOES NOT WAIVE OR MODIFY THE CITY OF CLARKSVILLE'S RIGHTS AS THE EASEMENT HOLDER. THE OWNER UNDERSTANDS THAT THE CITY OF CLARKSVILLE, ITS AUTHORIZED CONTRACTOR OR APPLICABLE PRIVATE UTILITY SHALL HAVE NO LIABILITY TO THE OWNER FOR ANY DAMAGE TO THE LANDSCAPING IN THE EASEMENT WHEN SAID DAMAGE IS DUE TO WORK WITHIN THE EASEMENT. THE OWNER MAY BE HELD RESPONSIBLE FOR THE REMOVAL OF LANDSCAPING TO ENABLE WORK TO BE DONE. THE OWNER SHALL BE SOLELY RESPONSIBLE FOR ANY COSTS INCURRED IN REPAIRING AND/OR REPLACING THE REQUIRED LANDSCAPING."

PLANT MATERIAL SHALL CONFORM TO "THE AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1) FOR SIZE FORM AND QUALITY

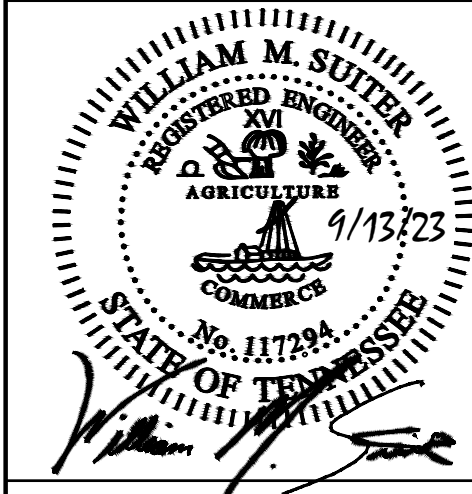
MYCORRHIZAL INOCULATES AND SUPER-ABSORBENT MATERIAL ADDED TO TOPSOIL BACKFILL AT THE MANUFACTURER'S RECOMMENDED RATE AS PER SPECIFICATIONS

REMOVE ALL CRUSHED STONE BASE TO NATIVE SOIL OR A MINIMUM OF 24" IF ENGINEERED FILL

NORTH BASED ON NAD83
TENNESSEE COORDINATE SYSTEM



**BROOKHOLLOW SENIOR
APARTMENTS
ASHLAND CITY, TN
LANDSCAPING PLAN
SCALE: 1"=30'**

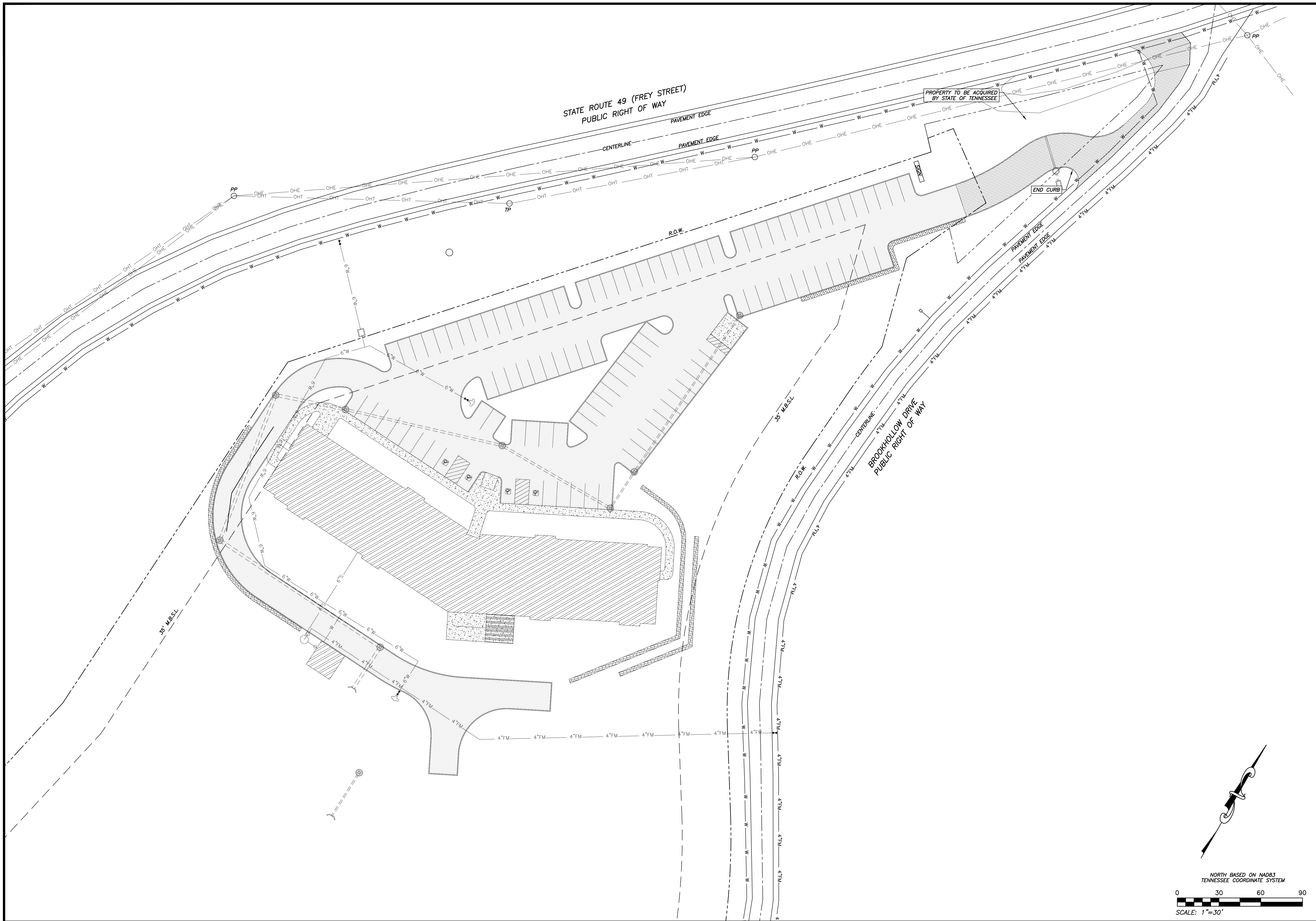


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2	9/13/23	REVISIONS

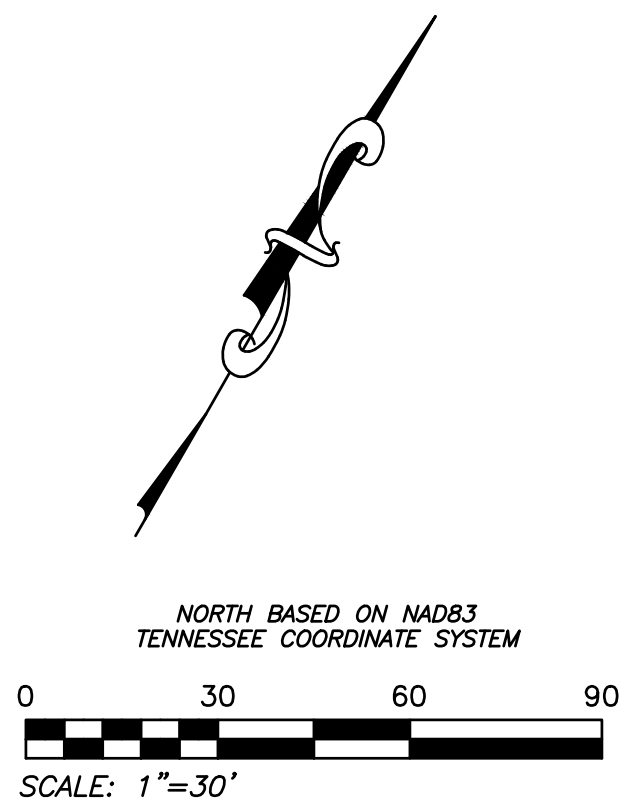
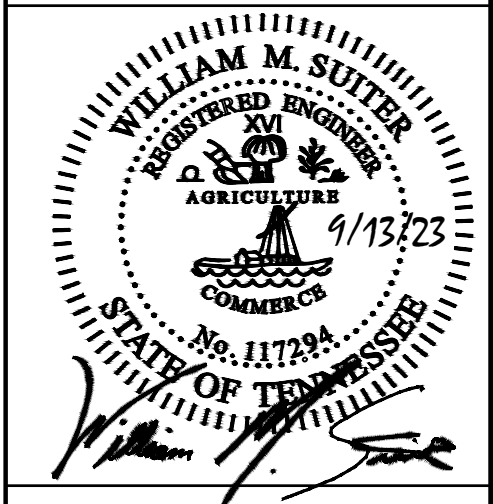


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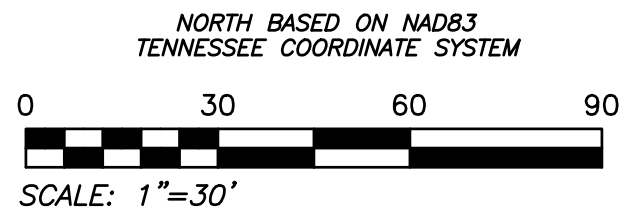
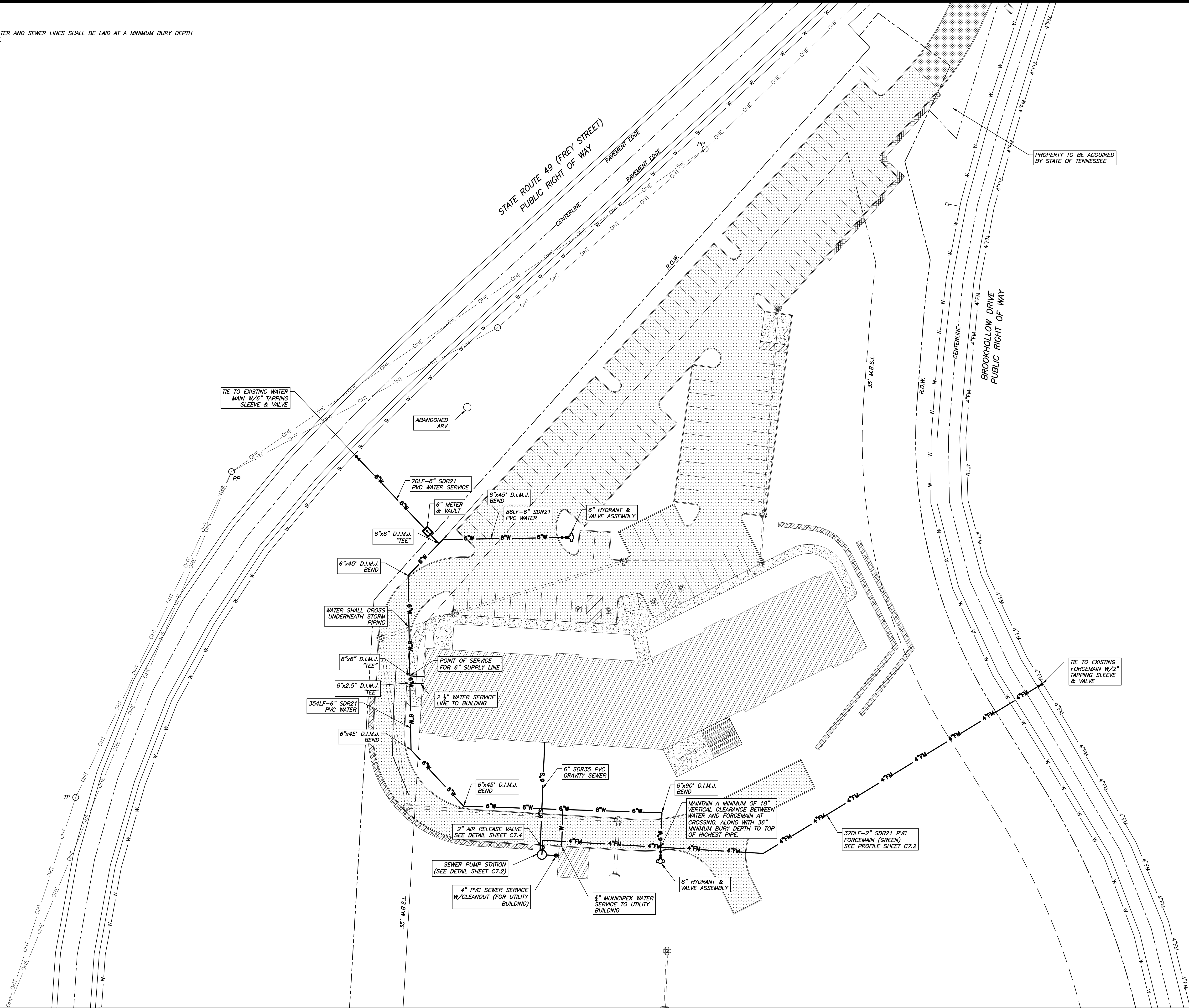
BROOKHOLLOW SENIOR
APARTMENTS
ASHLAND CITY, TN
LIGHTING PLAN
SCALE: 1"=30'



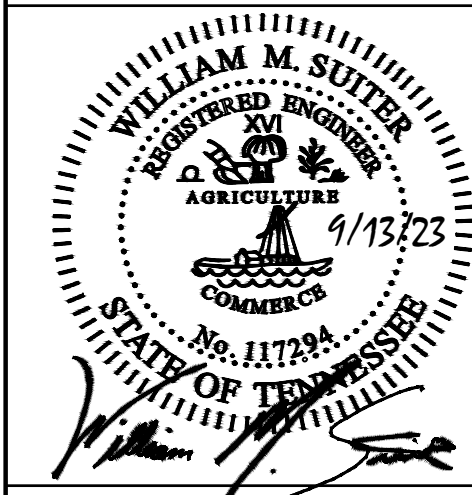
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NOTES:

- 1) ALL WATER AND SEWER LINES SHALL BE LAID AT A MINIMUM BURY DEPTH OF 36".



BROOKHOLLOW SENIOR
APARTMENTS
ASHLAND CITY, TN
UTILITY PLAN
SCALE: 1"=30'



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STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NOTES:

This Storm Water Pollution Prevention Plan (SWPPP) is developed in accordance with the Tennessee General NPDES Permit (TNR 100000) for Storm Water Discharges Associated with Construction Activity (TNCGP), and is prepared using sound engineering and construction practices. Non-storm water discharges are prevented as a condition of this permit.

The goal of this SWPPP is to prevent any detrimental discharge from the property described to receiving waters of the State of Tennessee. The construction activity mentioned in this report shall be carried out in such a manner that will prevent any discharge that would cause a condition in which visible solids, bottom deposits, or turbidity impairs the usefulness of the waters on the property or downstream of the property for fish and aquatic life, livestock watering, recreation, irrigation, navigation, or industrial or domestic water supply.

This SWPPP is intended to be a supplement to TNR 100000 and not a substitute for it. The owner and contractor shall be familiar with the requirements of TNR 100000. A copy of TNR 100000 can be found at www.state.tn.us/environment/permits/consistmrul.pdf

A Notice of Intent (NOI) and application fee shall be submitted to the local Environmental Assistance Center (EAC) by the owner at least thirty days before construction begins. A fee schedule is included in Appendix A. The NOI and all correspondence during the duration of the project shall be sent to:

Tennessee Department of Environment & Conservation
Environmental Assistance Center (EAC)
Division of Water Pollution
711 RS Gass Boulevard
Nashville, TN 37206

The current property owner, contracting developer, and per responsible for the EPSC measures described in this SWPPP is:

Socayr, Inc.
1244 S. 4th St.
Louisville, KY 40203

Each contractor and sub-contractor that is responsible for the installation, inspections, or maintenance of erosion or sediment control measures must understand and follow this document. The contractor shall sign the contractor's certification on the Notice of Intent and submit it to the local EAC. The contractor shall maintain records of grading activities and stabilization practices throughout the entire project. The contractor shall also maintain precipitation records for the site and keep a rain gauge on site. For this site, there is only one main operator/contractor that will be solely responsible for the implementation of this entire SWPPP.

Construction shall not begin until a Notice of Coverage (NOC) is received from the State. Current versions of the SWPPP, NOI, and NOC shall be kept at the project site for the duration of the project and shall be made available to all operators and site personnel. These documents shall be kept in a job trailer and/or project permit board if available. In cases where these locations are not available, a copy of each document shall be placed in hands of the on-site foreman in charge of construction. In either case the documents shall be kept on site at all times when work is being performed and shall be made available to all operators and site personnel involved with the project. The Project Engineer & Owner/Developer shall also keep a copy of each document at their respective offices.

This SWPPP shall be amended as necessary when defects or problems need to be corrected. All amendments to the plan shall be implemented within 48 hours after initiation. Anyone who finds defects or problems associated with the SWPPP shall notify the engineer immediately by phone or in writing. The Project Engineer will then make the necessary revisions to the SWPPP and distribute the revisions to the owner and all contractors.

Each contractor and sub-contractor that is responsible for the installation, inspections, or maintenance of erosion or sediment control measures shall file a Notice of Termination (NOT) when their respective duties are completed. The owner shall submit a final NOT after final stabilization is complete and established.

All construction procedures for installation of erosion prevention and sediment controls shall be performed in accordance with the "Tennessee Erosion and Sediment Control Handbook" published by the State of Tennessee. A copy of this handbook can be obtained at www.state.tn.us/environment/wpc/sed_ero_controlhandbook/.

If a release containing hazardous substance in an amount equal to or in excess of a reporting quantity established under either 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period, the contractor shall immediately notify the permittee who shall then notify the National Response Center (NRC) (800-424-8802) and the Tennessee Emergency Management Agency (TEMA) (800-262-3300 for emergencies; 800-262-3400 for non-emergencies) and the Environmental Assistance Center. A report describing such spills, mitigation plans, and steps taken to prevent future spills shall be reported to the EAC within fourteen days of the spill.

Any hazardous waste such as paint cans, oil cans, used oil, filters, etc. shall be contained and disposed of by the contractor at an appropriate hazardous waste disposal center. All other trash shall be properly contained and disposed of at reasonable intervals.

Litter, construction debris, and construction chemicals exposed to storm water shall be picked up prior to anticipated storm events (e.g. forecasted by local weather reports), or otherwise prevented from becoming a pollutant source for storm water discharges (e.g. screening outfalls, daily pick-ups).

A site assessment will be performed at each outfall involving drainage totaling 10 or more acres, or 5 or more acres if draining to an impaired or exceptional quality waters, within a month of construction commencing at each portion of the site that drains the qualifying acreage of such portion of the site. The site assessment shall be performed by individuals holding the qualification of either licensed professional engineer or landscape architect, certified professional in erosion and sediment control (CPESC), or a person that successfully completed the "Level II Design Principles for Erosion Prevention and Sediment Control for Construction Sites" course.

The assessment will be performed to verify the installation, functionality and performance of the EPSC measures described in the SWPPP. The assessment will be performed with the site inspector and will include a review and update of the SWPPP if applicable. The site assessment findings shall be documented and the documentation kept with the SWPPP on-site. The documentation shall include information included in the inspection form provided in Appendix C of TDEC's Construction General Permit. The documentation must contain the printed name and signature of the individual performing the assessment and the following certification:

"I certify under penalty of law that this report and all attachments are, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

SWPPP – EXISTING SITE CONDITIONS:

The site in question is a vacant lot which drains generally north to south. The entire lot itself is approximately 8.35 acres in size, with only the northern 3.9 acres (+/-) being proposed for disturbance. The nearest body of surface water is an unnamed stream which feeds directly into the Cumberland River on the southwest side of Ashland City.

The site will initially be cleared and grubbed of existing trees and prepared for the development of a multi-story assisted living complex. The erosion control measures on site have been designed to withstand the 5 year/24 hour storm event. The site outfall accepts a contributing drainage area of 3.5 acres (+/-) and there is a permanent detention basin being proposed for the site which will act as a temporary sediment trap during the construction phase of the development.

SWPPP – CONSTRUCTION SEQUENCE:

Initial erosion and sediment controls such as construction exits, straw bale filters and silt fencing shall be installed according to construction documents. Only the clearing and grubbing necessary to install these controls shall be accomplished. Any buffer zones shown on the construction plans shall be marked by the contractor so as to prevent the disturbance of the buffer area. All erosion prevention and sediment control best management practices identified in this SWPPP or shown on the construction plans shall be installed as recommended in the Tennessee Erosion & Sediment Control Handbook.

Clearing and grubbing of the site will begin. Removal and disposal of organics such as tree lops, stumps, and brush shall be removed by the contractor. Burning will be allowed only when a permit is obtained by the contractor from the governing agencies. Burial of organics shall only be performed with consent of the project engineer. Removal and disposal of other items such as debris, building materials and other non-biodegradable materials shall be properly disposed of by the contractor at an off-site location. Ground cover shall not be removed more than twenty days before mass grading begins. Care shall be taken to prevent the cutting of trees within the buffer zone.

The contractor shall only clear and grub the areas shown or indicated on the construction plans. Areas that are not being developed shall be left in its natural state in order to prevent erosion.

Sediment basins shall be constructed as indicated on the construction plans. Detention basins as shown on the construction plans shall be constructed as sediment basins during construction of the site infrastructure. When final grading begins the basins shall be modified to bio-retention basins as shown on the construction plans. Diversion ditches or berms shall be constructed so that all water leaving the site must first enter into a sediment basin or other sediment control feature. Discharges from sediment basins and traps must be through a pipe or lines or well grassed channel.

Sediment deposits shall be cleaned out of sediment basins, silt fence and other controls by the contractor when the capacity is reduced to fifty percent. Sediment removed from basins shall be deposited at a designated area and immediately stabilized with grass seed and matting. Care should be taken during removal of sediment to prevent disturbance of lands downstream from sediment basin. Any repairs required to re-establish functionality of sediment basin shall be immediately performed after sediment loads are removed.

Mass grading of roadways and building pads shall be conducted according to current construction methods. The contractor shall notify the engineer of potential problem areas that could produce unfiltered runoff. When practical, the contractor shall attempt to prevent a mass grading of the entire site at once. The maximum disturbed area at any one time shall not exceed 50 acres.

Muddy water to be pumped from excavation and work areas must be held in settling basins or filtered prior to its discharge into surface waters. Water must be discharged through a pipe or lines or well grassed channel.

Any storage of off-site soils shall be temporary in nature and shall be protected with silt fence around the perimeter of stockpiles. Any stockpile that is dormant for fifteen days shall be stabilized with seed and mulch as noted below.

Construction of sewer, storm, water, gas, and other utility infrastructure shall be completed in a manner that will limit the amount of sediment that can be transported from the site. Once installed and functional, inlet protection shall be installed at inlets prone to sediment intrusion.

Final grading and paving of roadways shall be completed according to current construction procedures. Stabilization will be accomplished as soon as practicable after attainment of final grade and no later than seven days after attaining final grade. Where earth disturbing activities have temporarily ceased, temporary stabilization will be applied within seven days if the activity will not resume for fifteen days.

SWPPP – CONSTRUCTION SEQUENCE (CONT.):

Stabilization may include seed and mulch, as shown below, or may include seed and erosion control blankets, as noted on the plans. Construction shall be as per the City of Clarksville Gas & Water Standard Specification titled "Section 02485-Lawn & Grass Landscaping."

Seeding mixtures are shown below:

Permanent Seeding Mixtures

Seeding Dates	Grass Seed	Percentage
February 1 – July 1	Kentucky 31 Fescue	80
	Korean Lespedeza	15
	English Rye	5
June 1 – August 15	Kentucky 31 Fescue	55
	Korean Lespedeza	20
	English Rye	15
April 15 – August 15	German Millet	10
	Bermusgrass (huled)	70
	Annual Lespedeza	30
August 1 – December 1	Kentucky 31 Fescue	70
	English Rye	20
	White Clover	10
February 1 – December 1	Kentucky 31 Fescue	70
	Crown Vetch	25
	English Rye	5

Temporary Seeding Mixtures

Seeding Dates	Grass Seed	Percentage
January 1 – May 1	Italian Rye	33
	Korean Lespedeza	33
	Summer Oats	34
May 1 – July 15	Sudan-Sorghum	100
May 1 – July 15	Starr Millett	100
July 15 – January 1	Balboa Rye	67
	Italian Rye	33

After the site is fully established, silt fence and trapped sediment shall be removed to prevent remains from becoming a pollutant source for storm water discharges.

The contractor's qualified personnel shall inspect each outfall and erosion control on site within 24 hours after each rainfall of 0.5" or more, before an anticipated storm event, and at least twice a week being at least 72 hours apart. Each inspection must be documented and submitted to the State of Tennessee's Environmental Assistance Center (EACH) by the 15th of each month after each quarter of the year. Copies of inspection documentation and forms shall be obtained from the EAC. The inspector shall look for and note the following:

- a.All disturbed areas on-site shall be inspected for pollutants that could contaminate downstream waters
- b.Erosion control shall be inspected for structural defects and general effectiveness of the control
- c.Outfall points shall be inspected for any signs of erosion

Again, all inspections must be documented and include the inspector's name, qualifications, date, and any notes taken. The inspector shall notify the engineer of any problems so that this SWPPP can be revised within 14 days of notification. All records shall be retained for a period of three years.

All erosion control structures shall be properly maintained. Any defect found during inspections shall be corrected within seven days after inspection. Notify the engineer of any such defects found at the time of inspection.

All records taken during construction shall be kept for a minimum of three years after the NOT is filed. TDEC may request that files be kept for periods longer than three years.

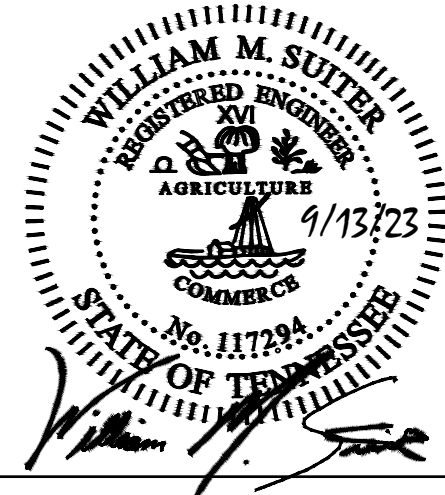
Any disturbed area on-site shall be stabilized within 15 days, or 7 days in areas with ≥ 35% slopes, where construction activities have temporarily or permanently ceased.

Any vegetation or EPSC and other protective measure on-site that is deemed as inadequate, not functional, or in general need of a repair, replacement or update by the site inspector shall be repaired replaced or modified within 7 days.

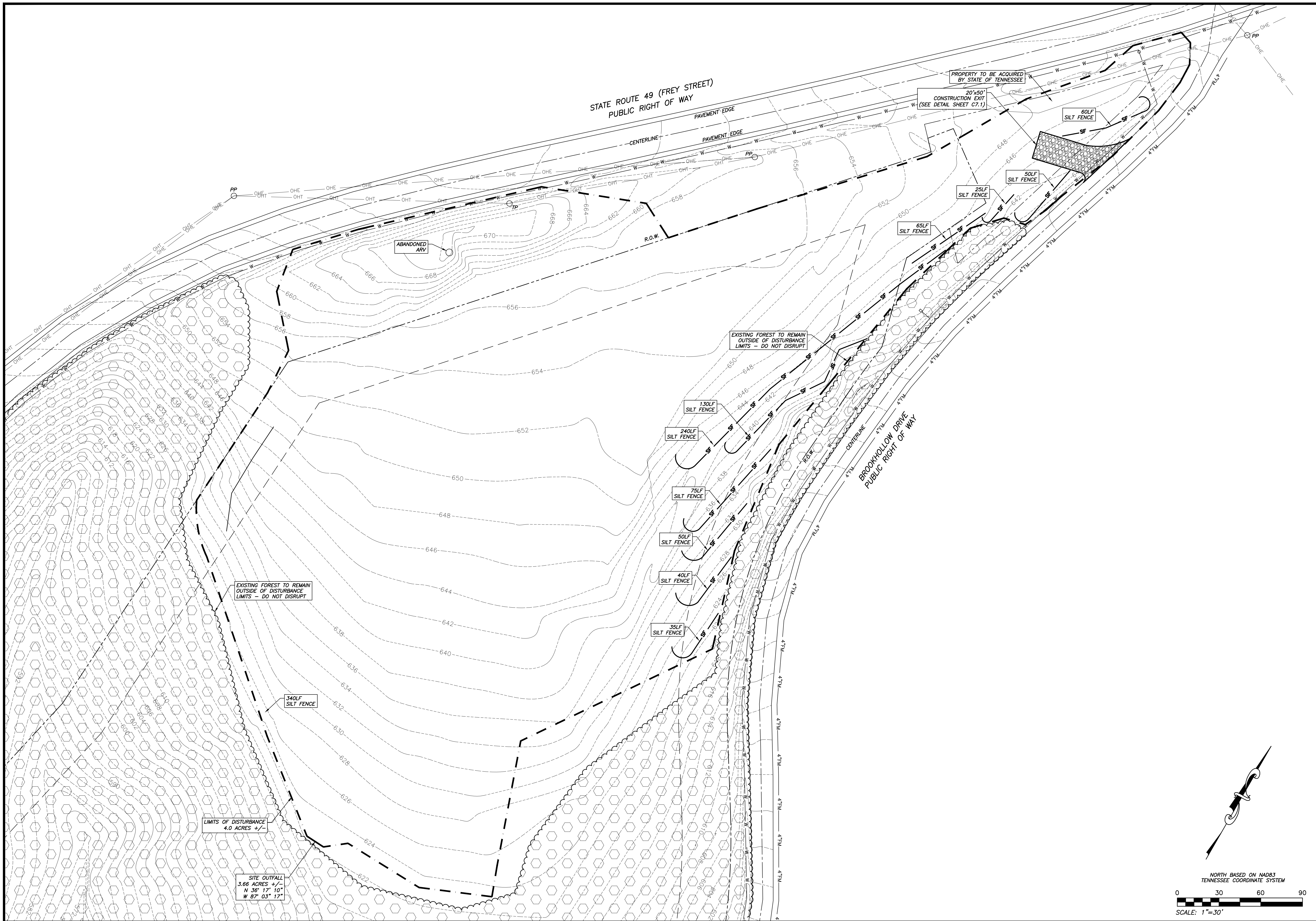
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APARTMENTS
ASHLAND CITY, TN
SWPPP
SCALE: NONE



C3.0

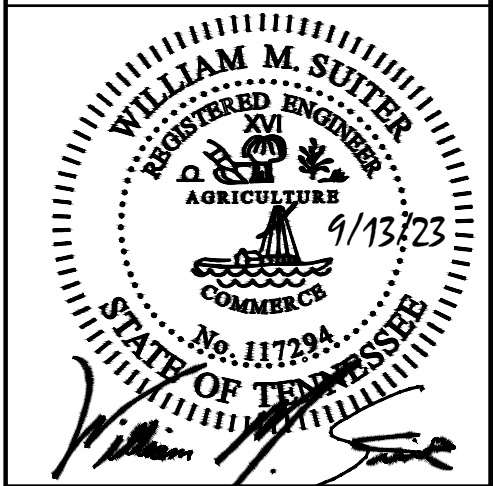


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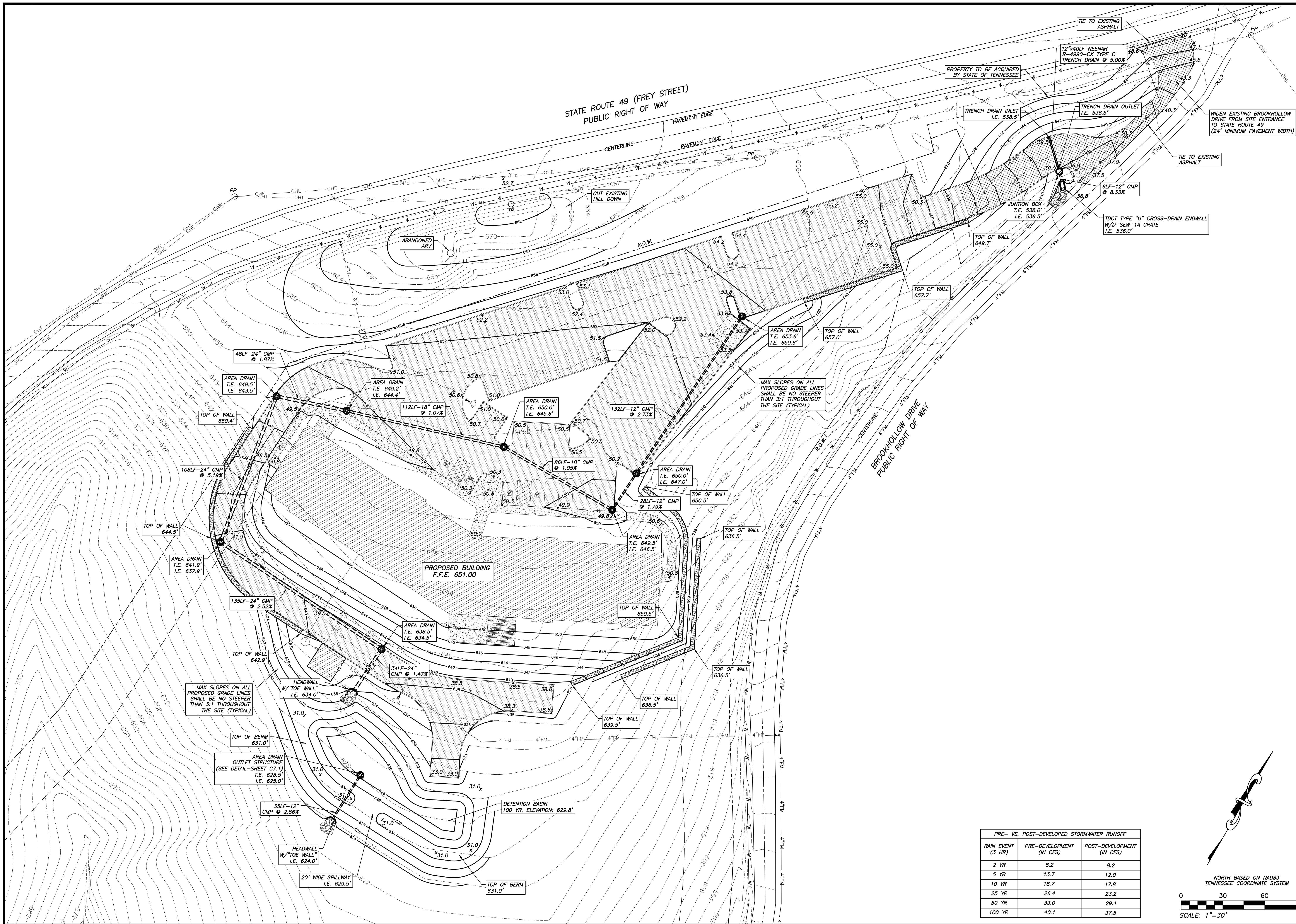
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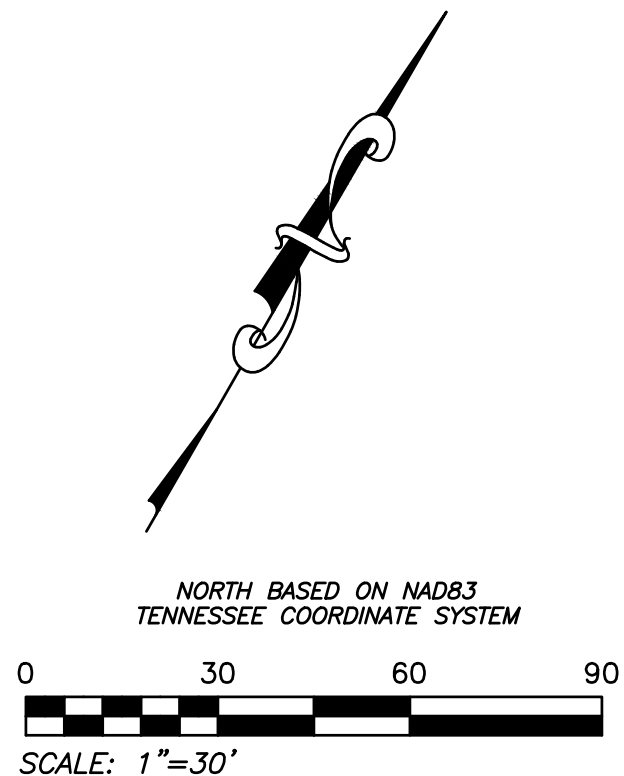
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ASHLAND CITY, TN
EPSC PHASE I
SCALE: 1"=30'



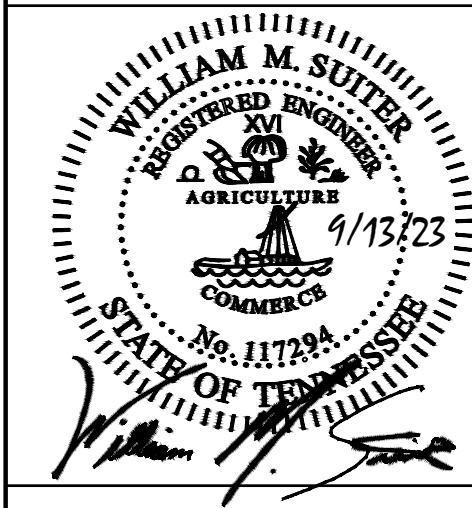
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PRE- VS. POST-DEVELOPED STORMWATER RUNOFF		
RAIN EVENT (3 HR)	PRE-DEVELOPMENT (IN CFS)	POST-DEVELOPMENT (IN CFS)
2 YR	8.2	8.2
5 YR	13.7	12.0
10 YR	18.7	17.8
25 YR	26.4	23.2
50 YR	33.0	29.1
100 YR	40.1	37.5



BROOKHOLLOW SENIOR
APARTMENTS
ASHLAND CITY, TN
GRADING & DRAINAGE PLAN
SCALE: 1"=30'



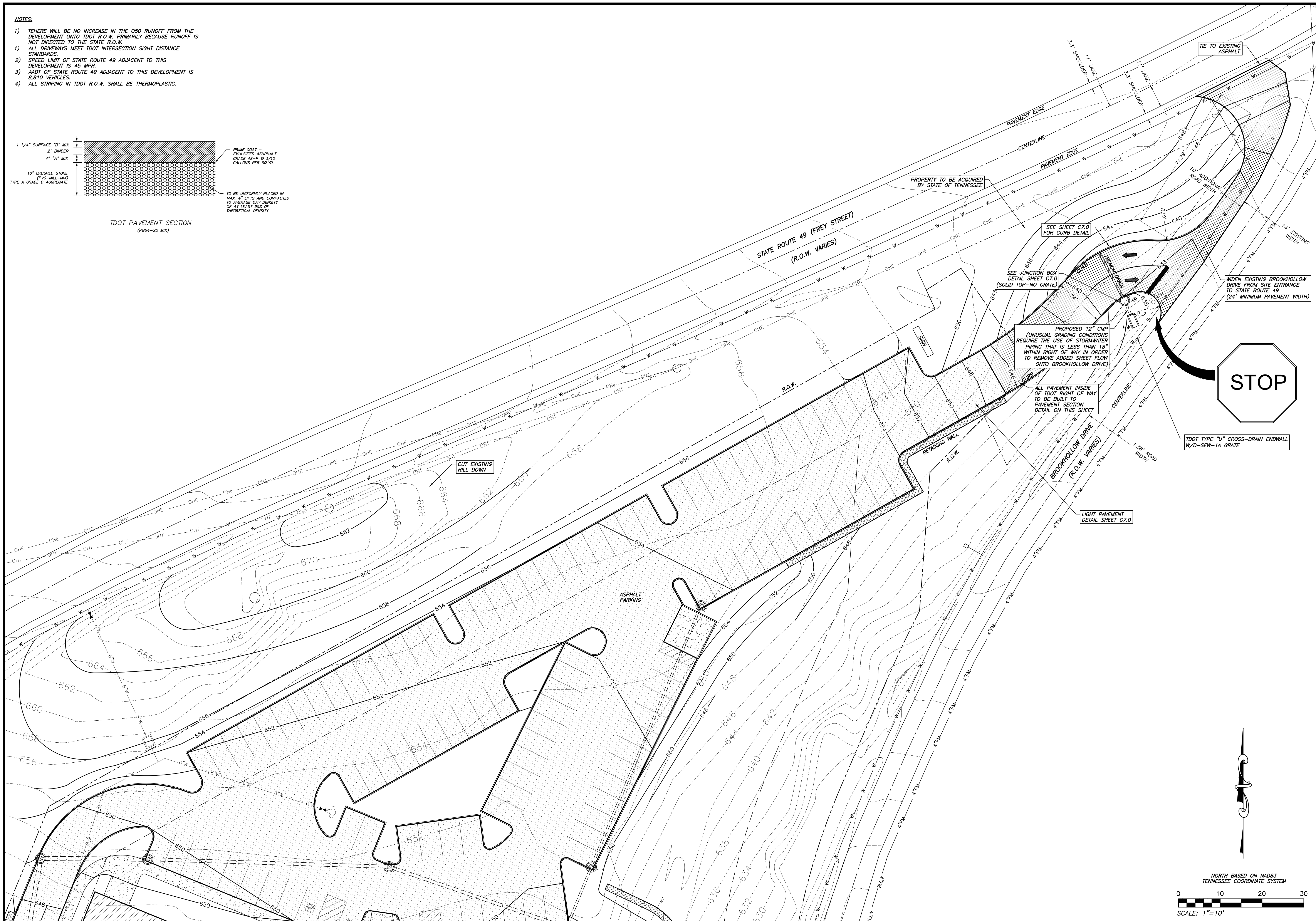
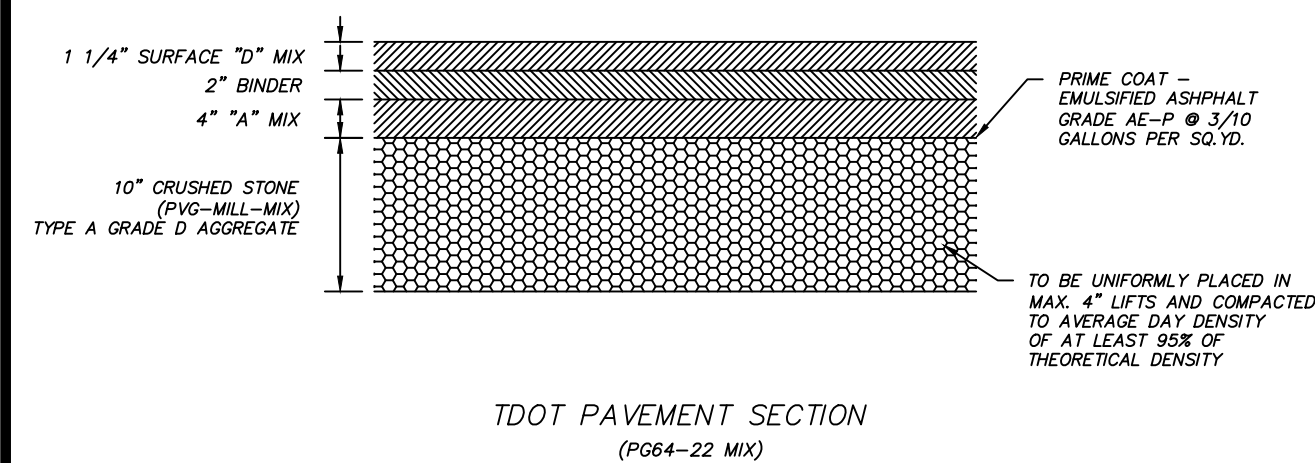
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- 1) THERE WILL BE NO INCREASE IN THE QSO RUNOFF FROM THE DEVELOPMENT ONTO TDOT R.O.W. PRIMARILY BECAUSE RUNOFF IS NOT DIRECTED TO THE STATE R.O.W.
- 1) ALL DRIVEWAYS MEET TDOT INTERSECTION SIGHT DISTANCE STANDARDS.
- 2) SPEED LIMIT OF STATE ROUTE 49 ADJACENT TO THIS DEVELOPMENT IS 45 MPH.
- 3) ADOT OF STATE ROUTE 49 ADJACENT TO THIS DEVELOPMENT IS 8,810 VEHICLES.
- 4) ALL STRIPING IN TDOT R.O.W. SHALL BE THERMOPLASTIC.

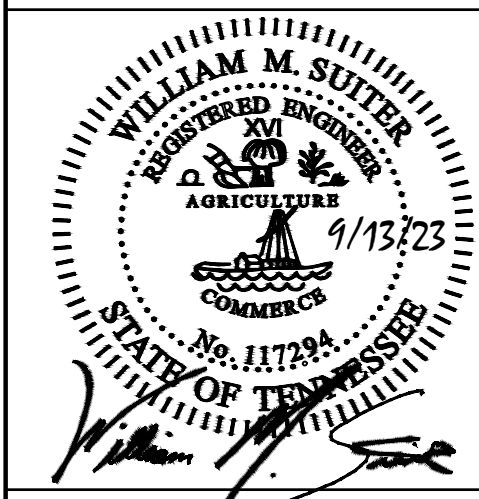


***BROOKHOLLOW SENIOR
APARTMENTS
ASHLAND CITY, TN
TDOT ENCROACHMENT
SCALE: 1"=10'***

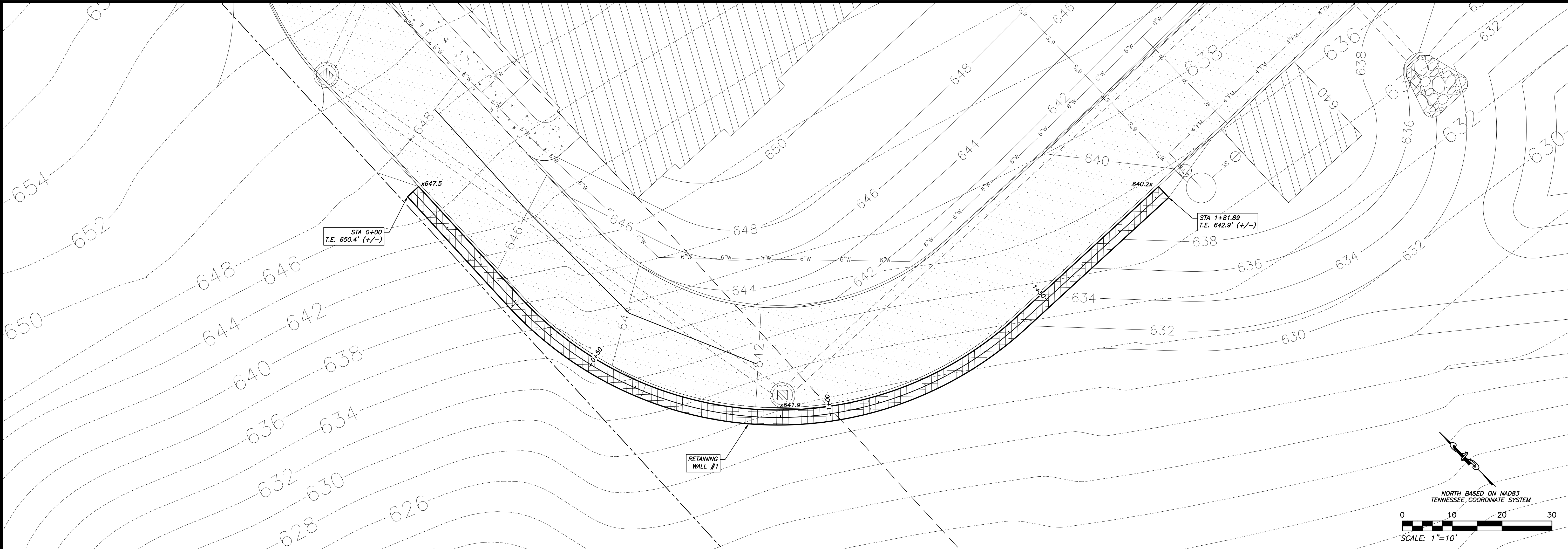
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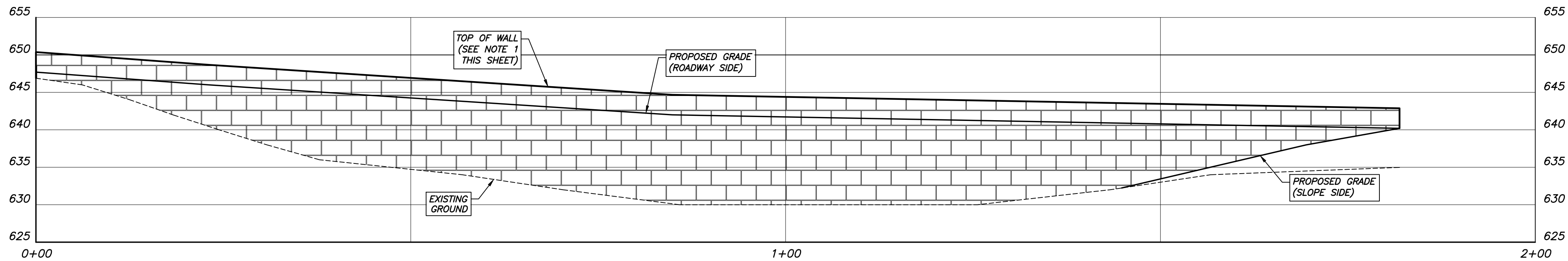
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NOTES:
1) TOP OF WALL TO BE 32" ABOVE PROPOSED ROADWAY GRADE. SEE STRUCTURAL DRAWINGS FOR DETAIL DESIGN OF RETAINING WALL.

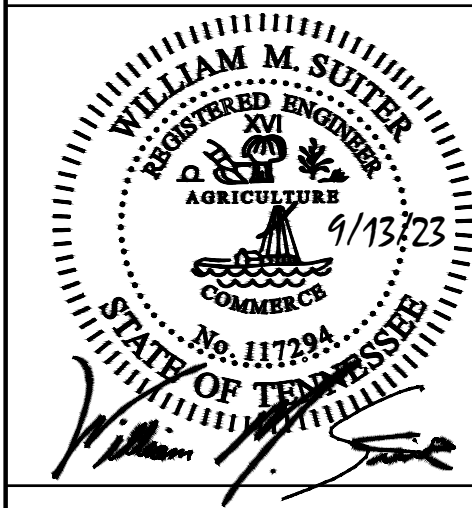


RETAINING WALL #1
STA 0+00 TO 1+81.89
PROFILE
SCALE: 1"=10'

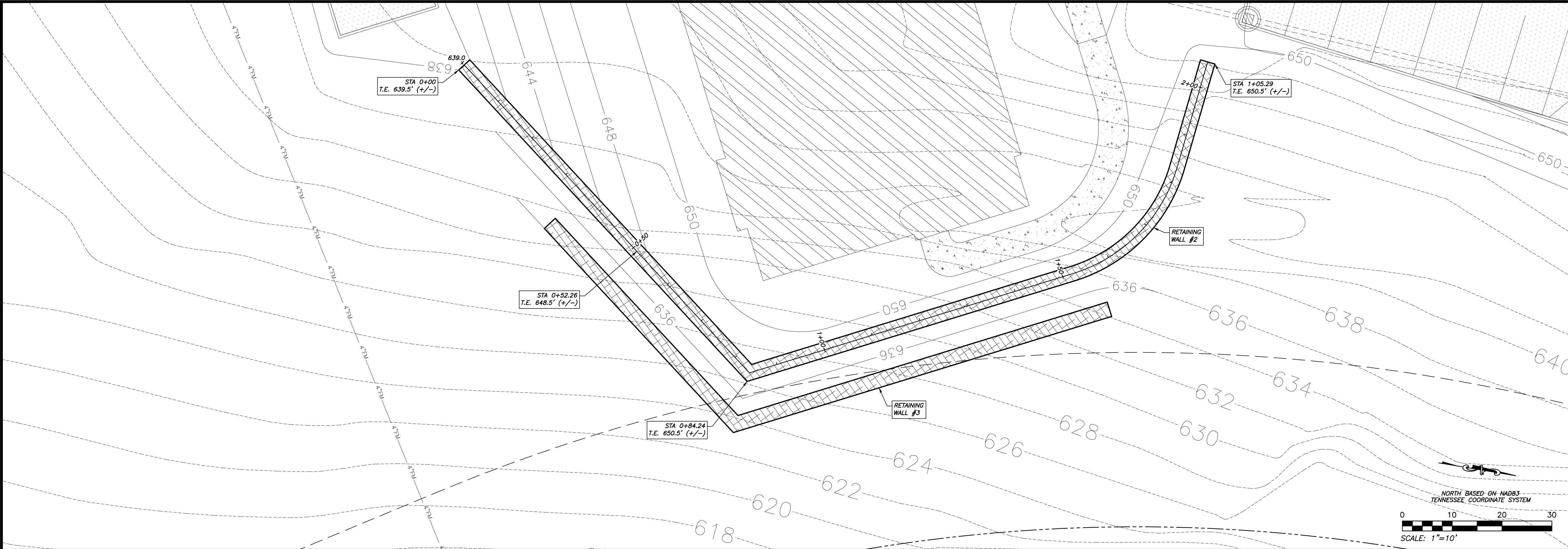
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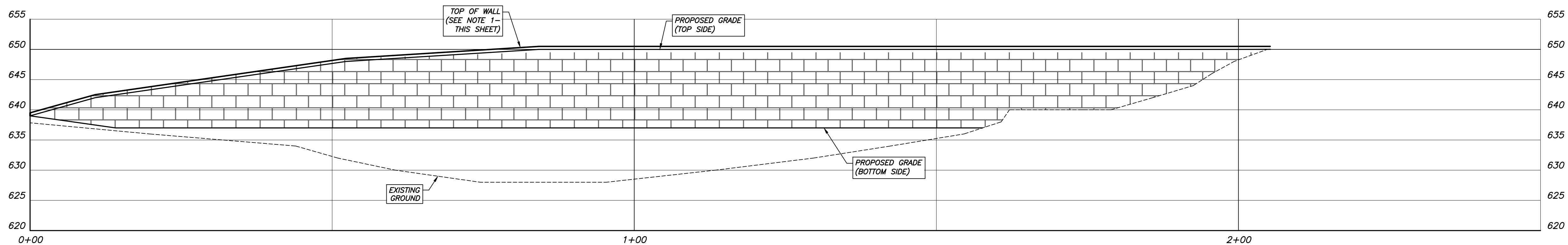
BROOKHOLLOW SENIOR
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ASHLAND CITY, TN
RETAINING WALL #1
SCALE: 1"=10'



C6.0



NOTES:
1) TOP OF WALL TO BE 6" ABOVE PROPOSED GRADE. SEE STRUCTURAL DRAWINGS FOR DETAIL DESIGN OF RETAINING WALL.



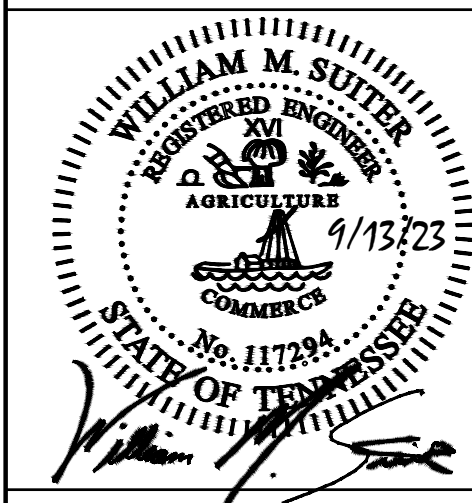
RETAINING WALL #2
STA 0+00 TO 2+05.29
PROFILE
SCALE: 1"=10'

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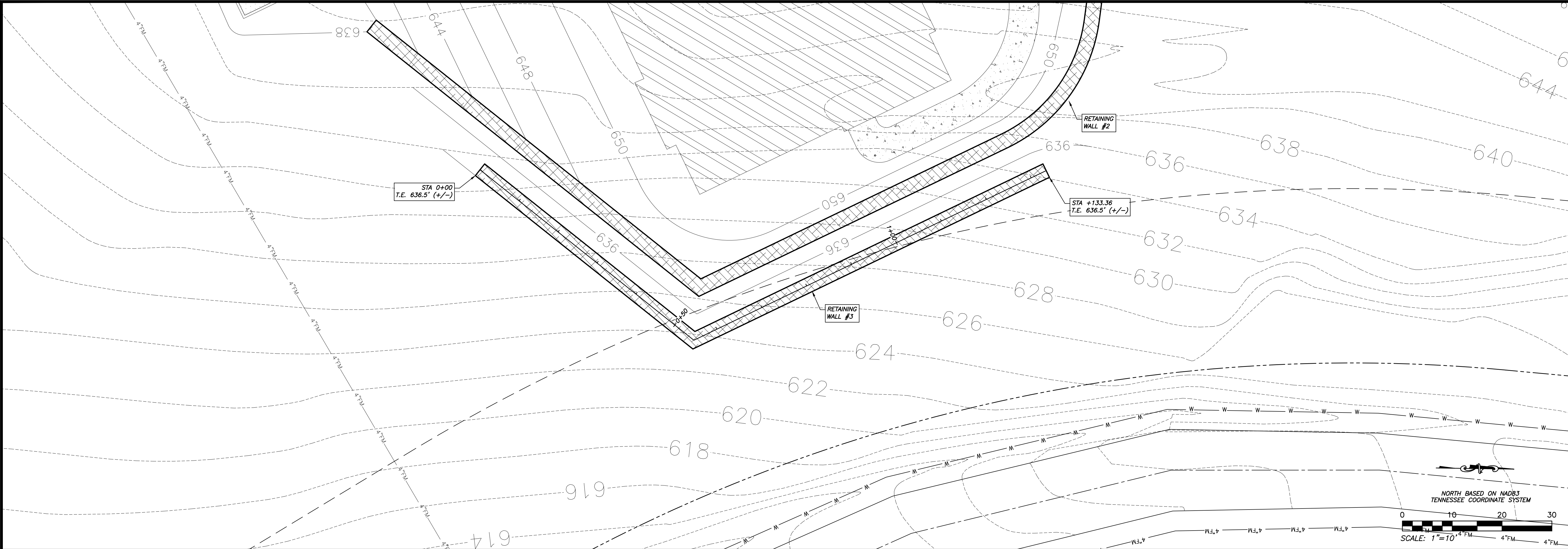
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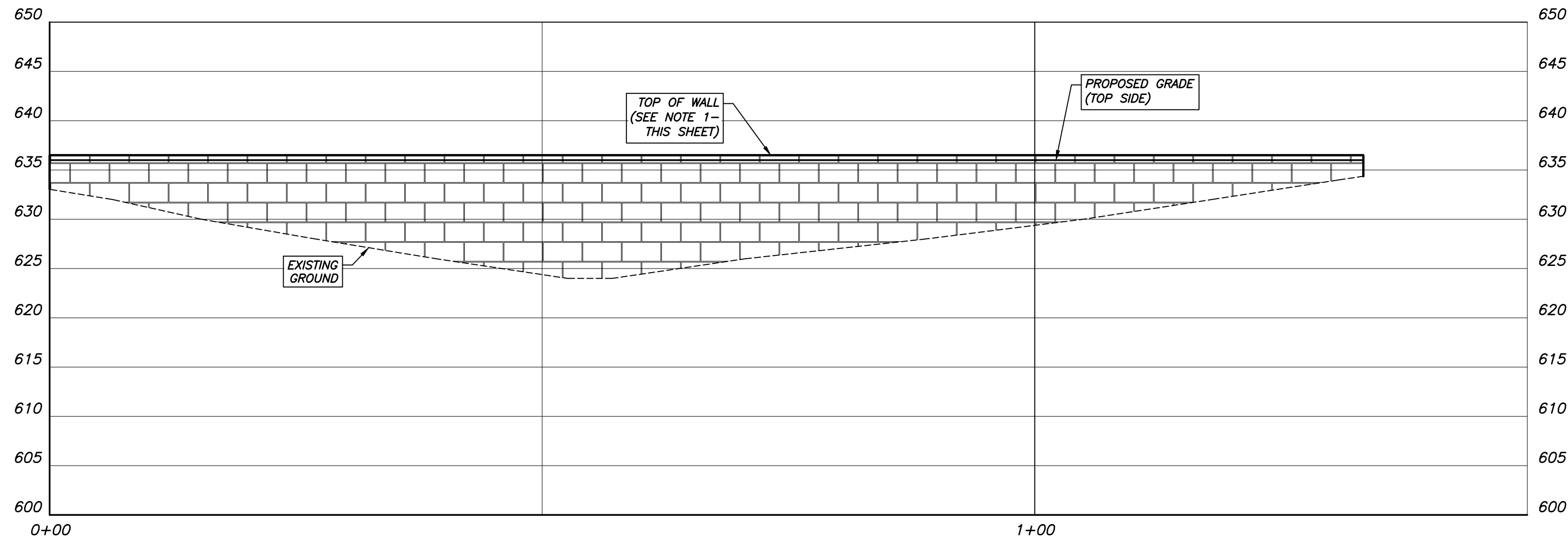
BROOKHOLLOW SENIOR
APARTMENTS
ASHLAND CITY, TN
RETAINING WALL #2
SCALE: 1"=10'



C6.1



NOTES:
1) TOP OF WALL TO BE 6" ABOVE PROPOSED GRADE. SEE STRUCTURAL DRAWINGS FOR DETAIL DESIGN OF RETAINING WALL.

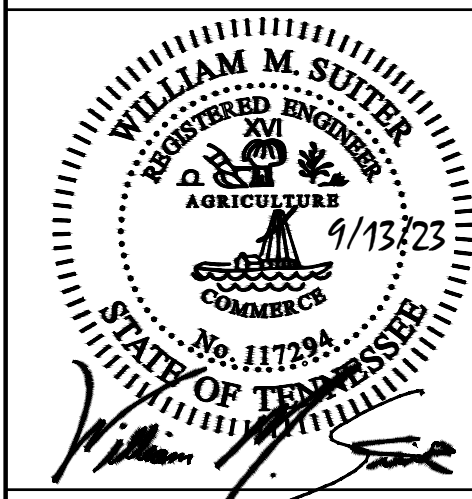


RETAINING WALL #3
STA 0+00 TO 1+33.36
PROFILE
SCALE: 1"=10'

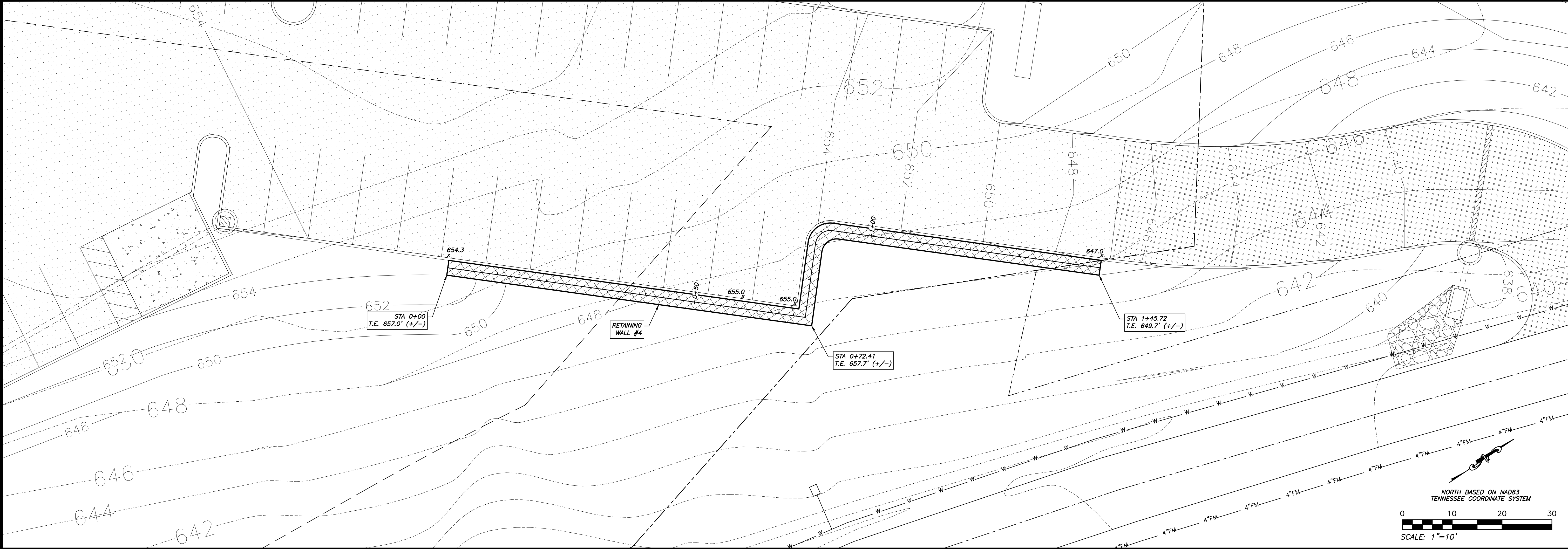
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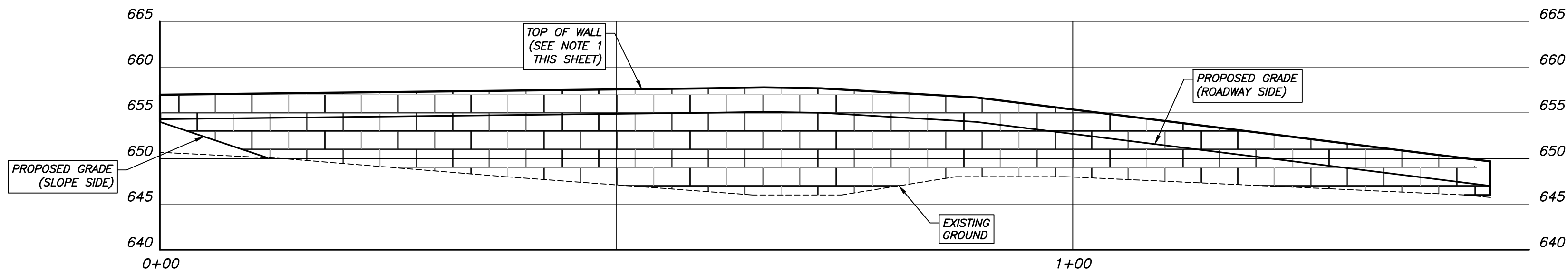
BROOKHOLLOW SENIOR
APARTMENTS
ASHLAND CITY, TN
RETAINING WALL #3
SCALE: 1"=10'



C6.2



NOTES:
1) TOP OF WALL TO BE 32" ABOVE PROPOSED ROADWAY GRADE. SEE STRUCTURAL DRAWINGS FOR DETAIL DESIGN OF RETAINING WALL.

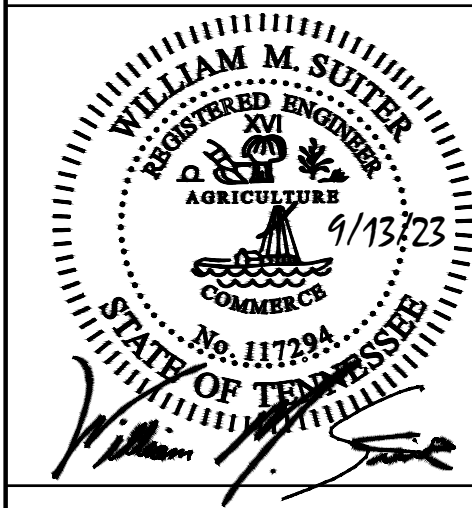


RETAINING WALL #4
STA 0+00 TO 1+45.72
PROFILE
SCALE: 1"=10'

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BROOKHOLLOW SENIOR
APARTMENTS
ASHLAND CITY, TN
RETAINING WALL #4
SCALE: 1"=10'

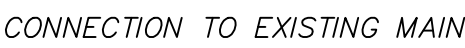


C6.3



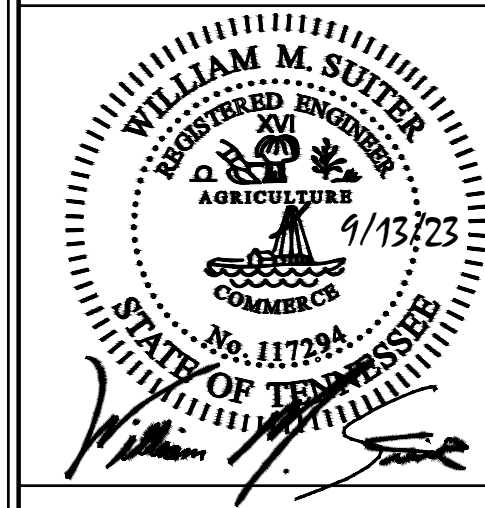
GENERAL NOTES:

- 1.) CONCRETE USED FOR BLOCKING SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
- 2.) EARTH PRESSURES ARE FIGURED AT 4000# PER SQ. FT. BEARING AREA OF KICKERS SHALL BE INCREASED WHEN POURED AGAINST SAND, LOOSE FILL, WET EARTH, CINDERS, ETC.
- 3.) TABLE BASED ON 225 P.S.I. OR 150 P.S.I. WORKING PRESSURE PLUS 50% WATER HAMMER

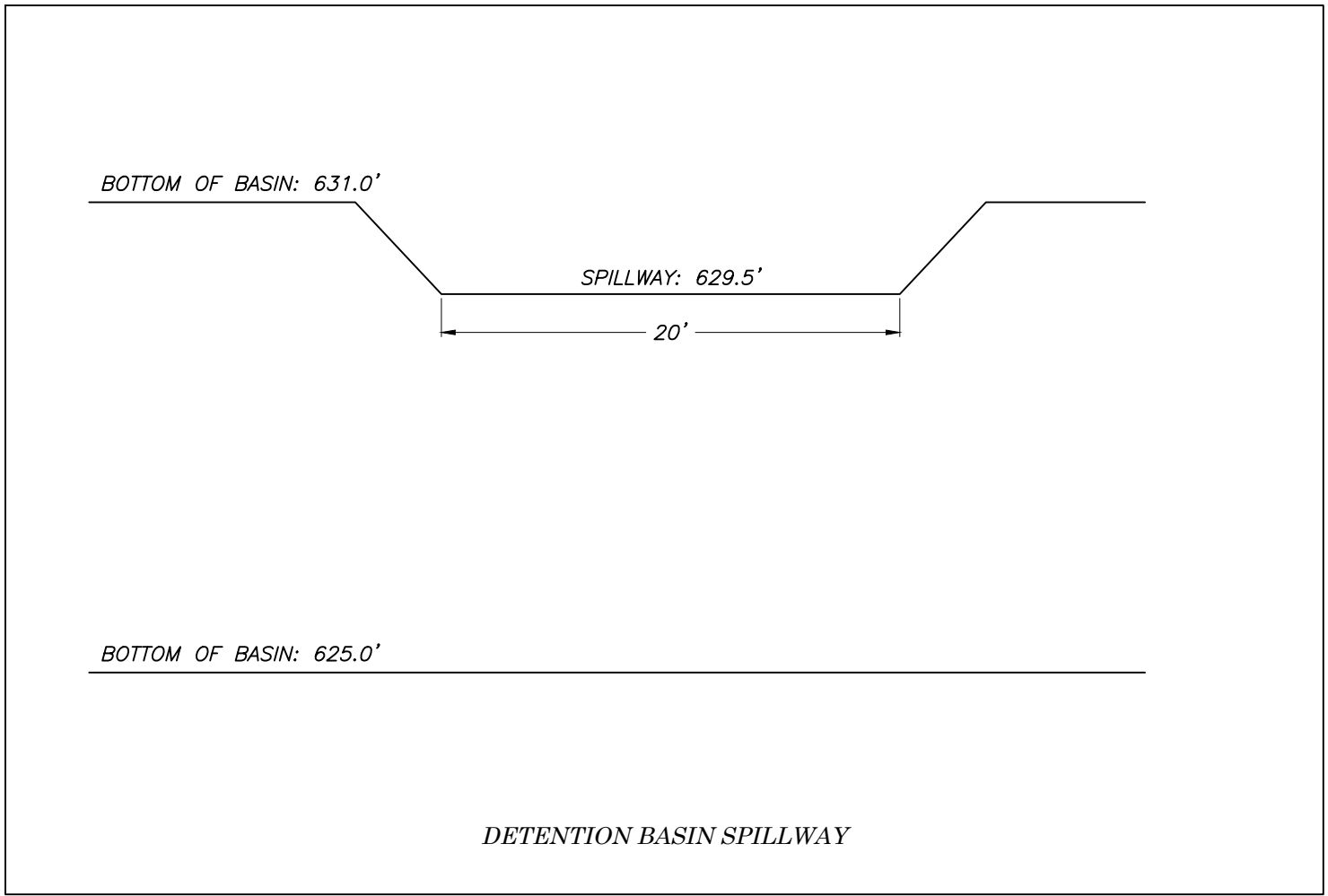
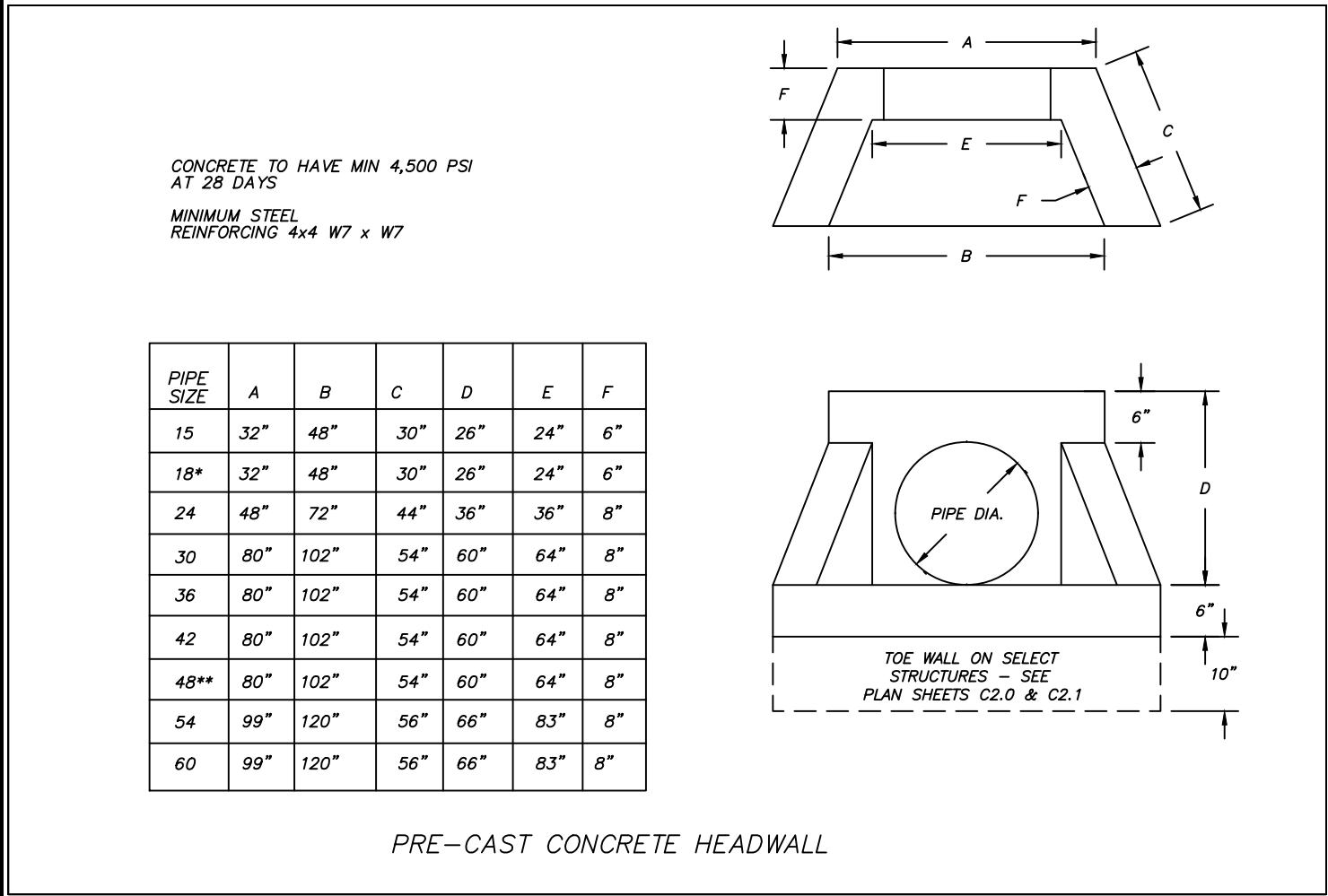
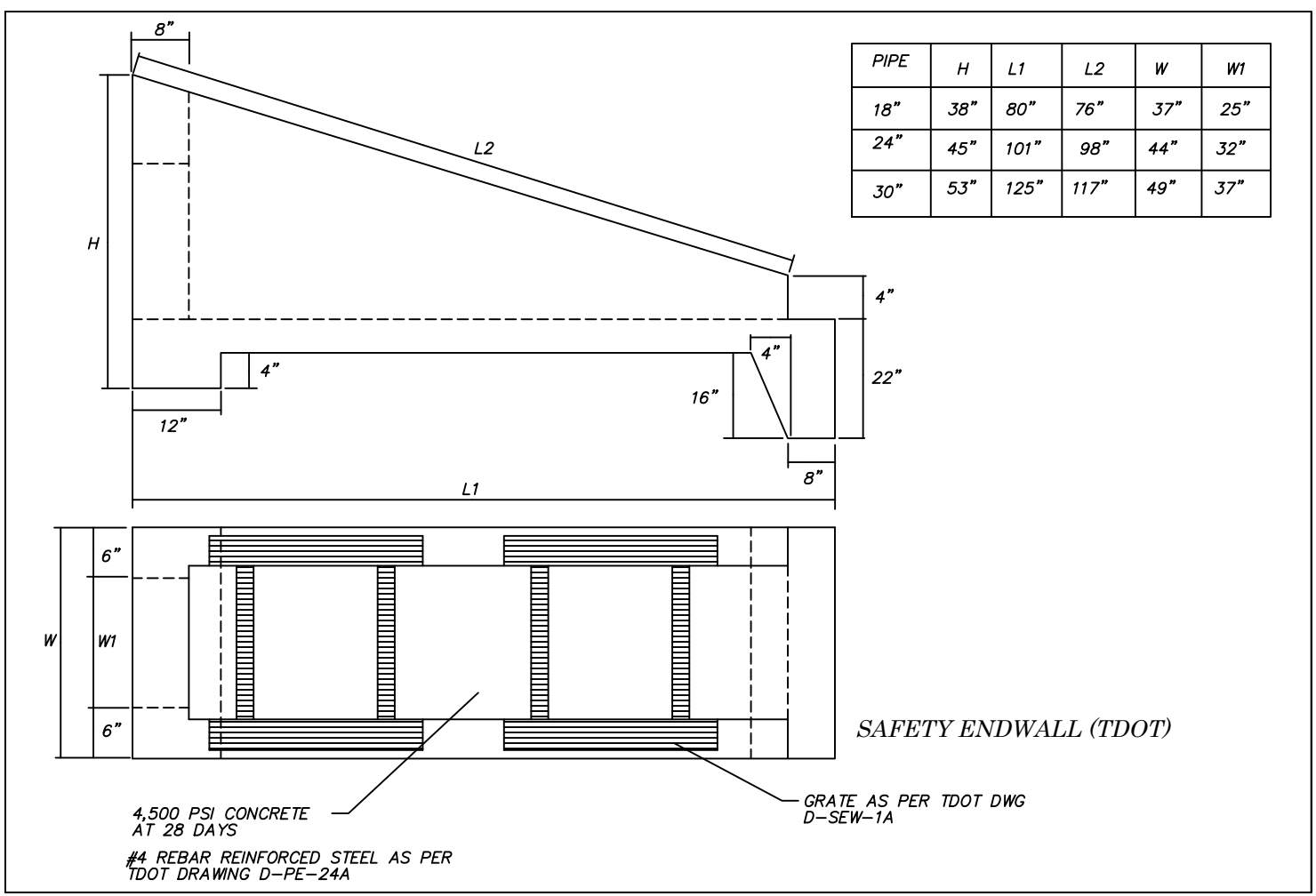
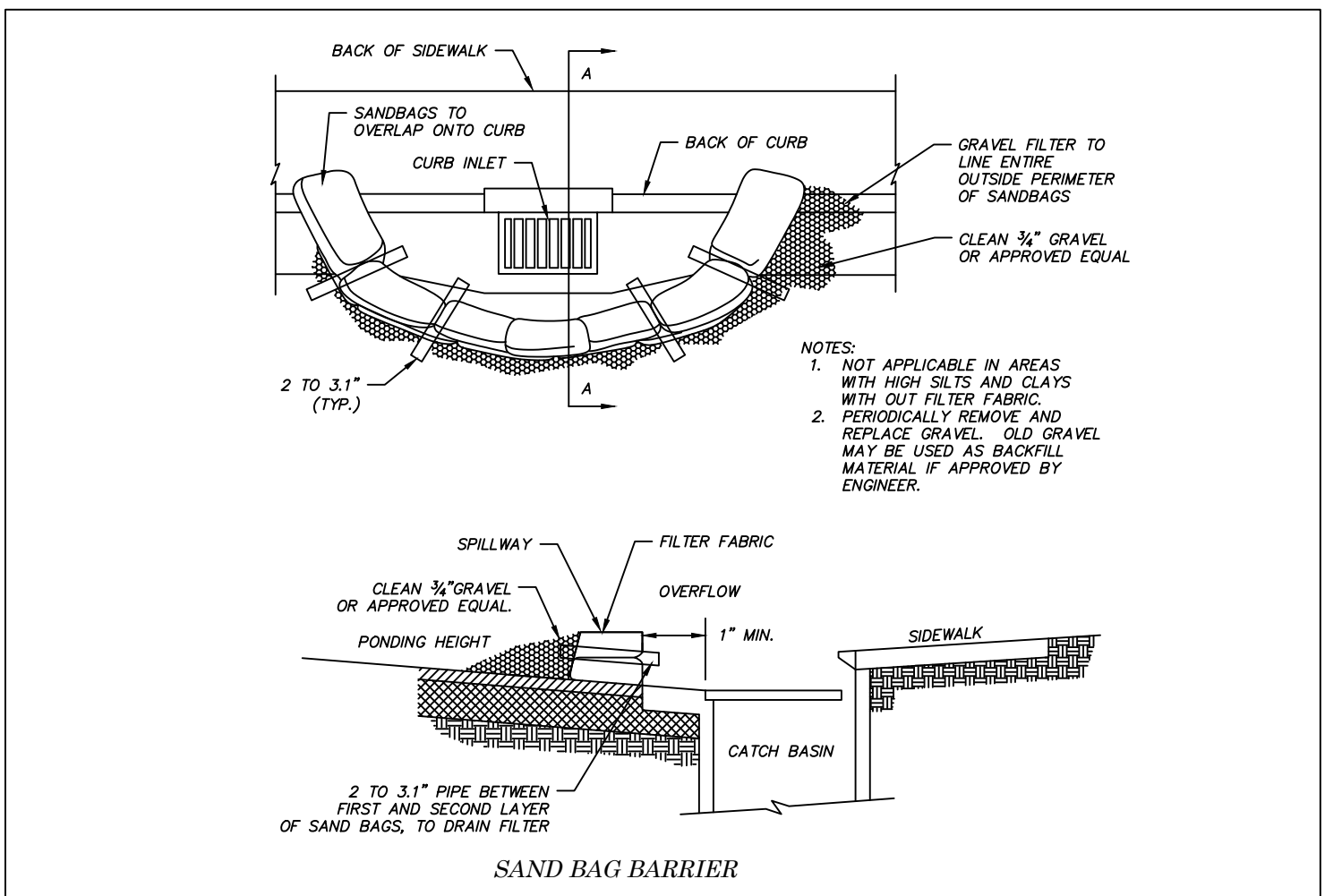
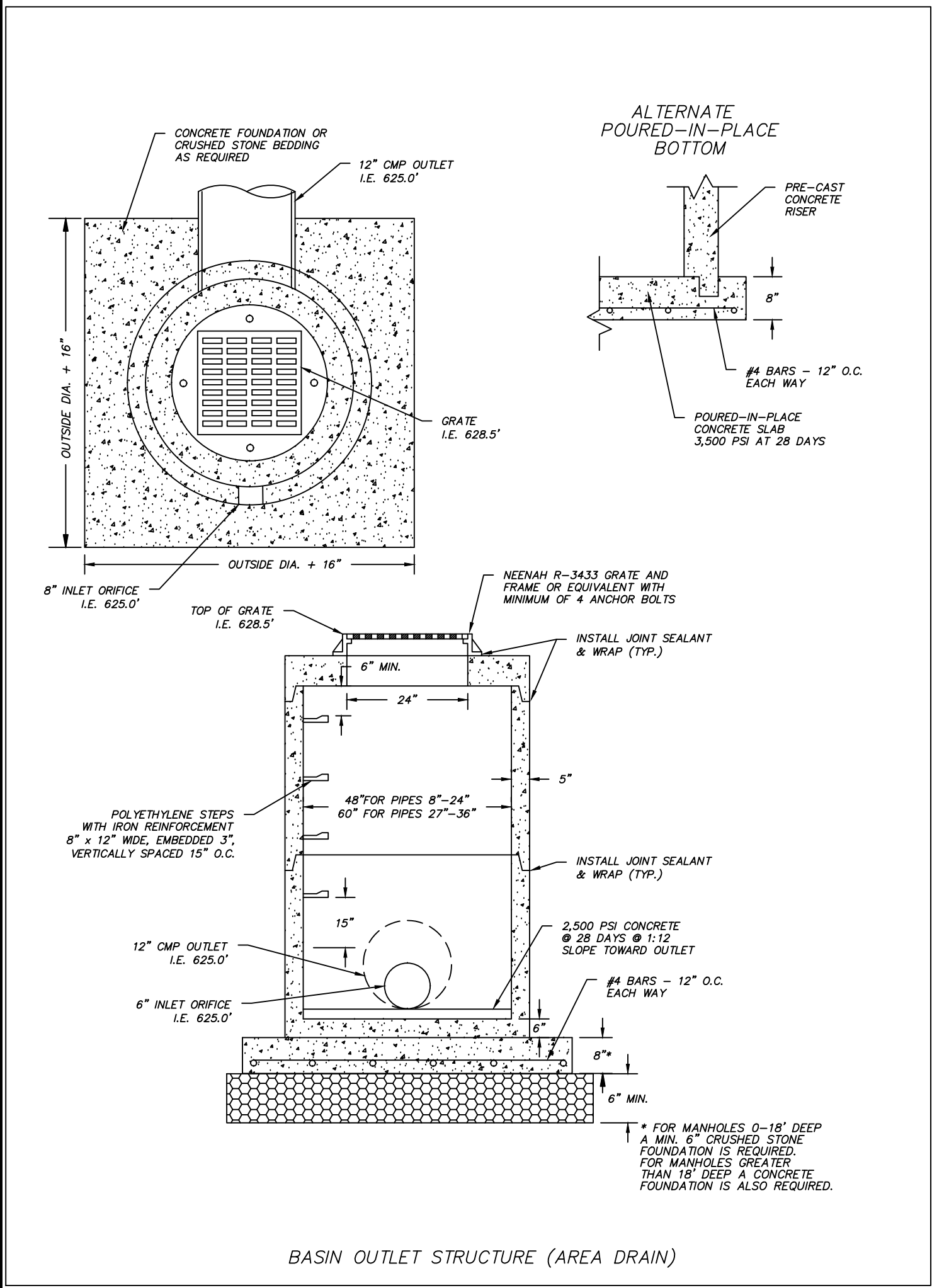
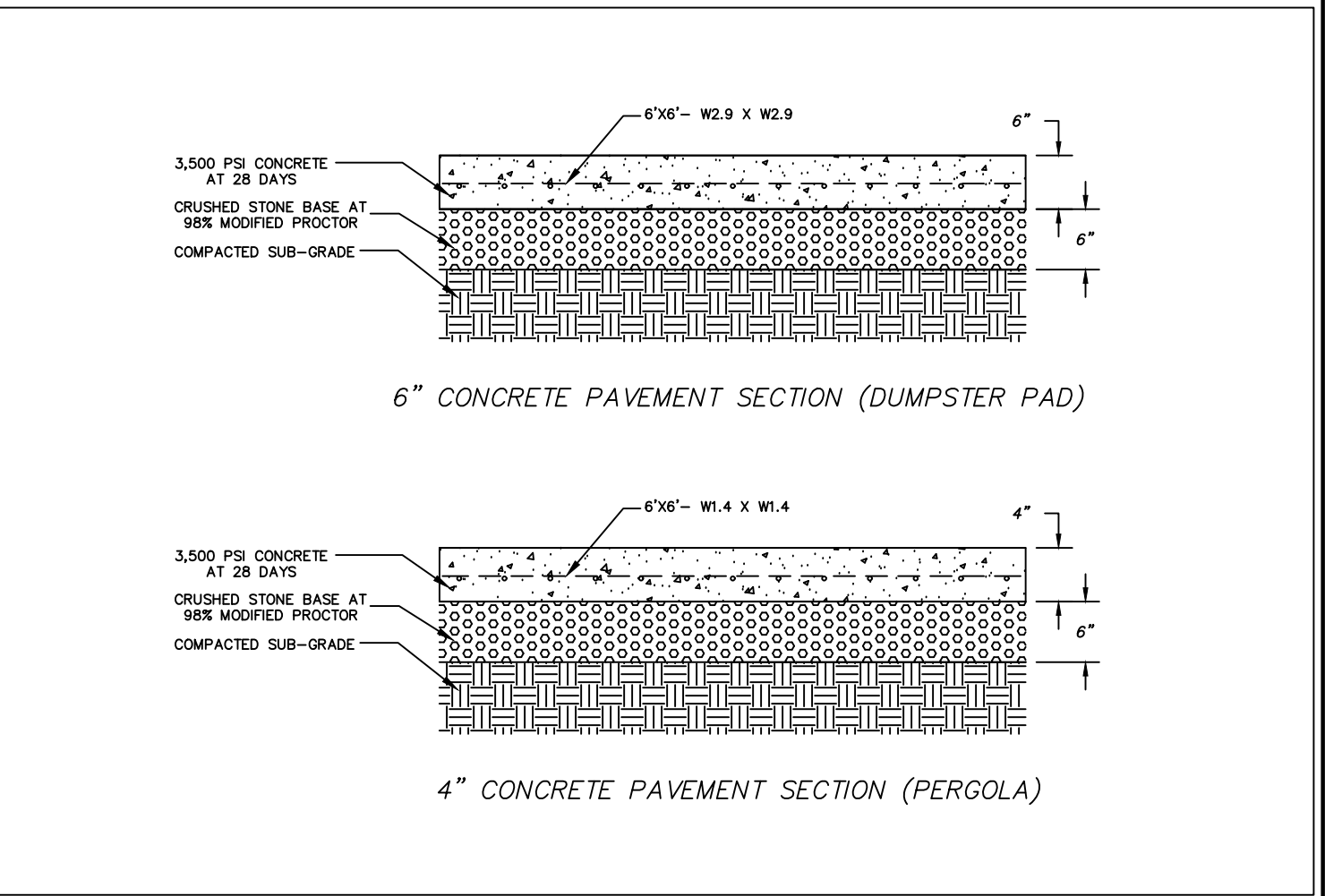
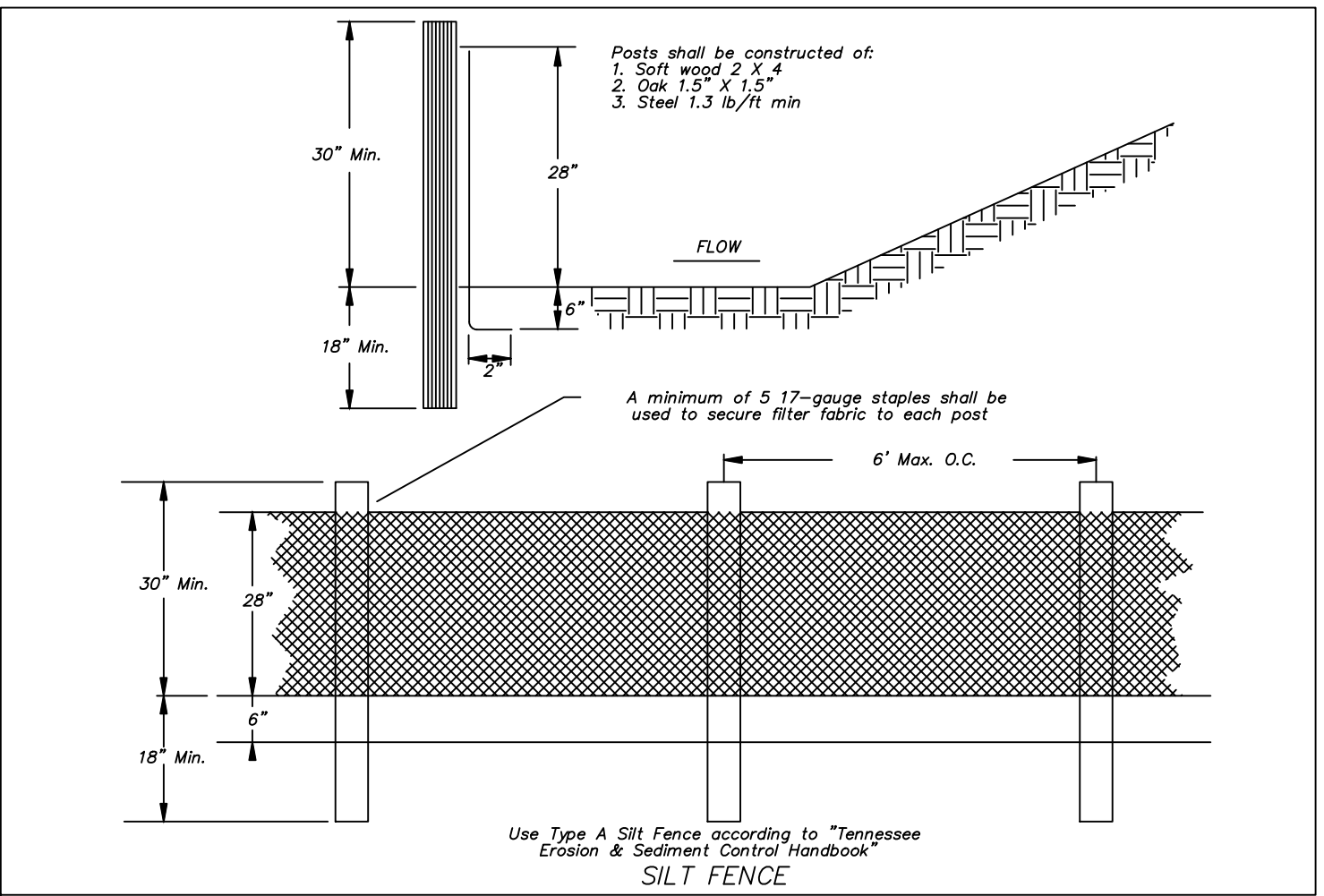
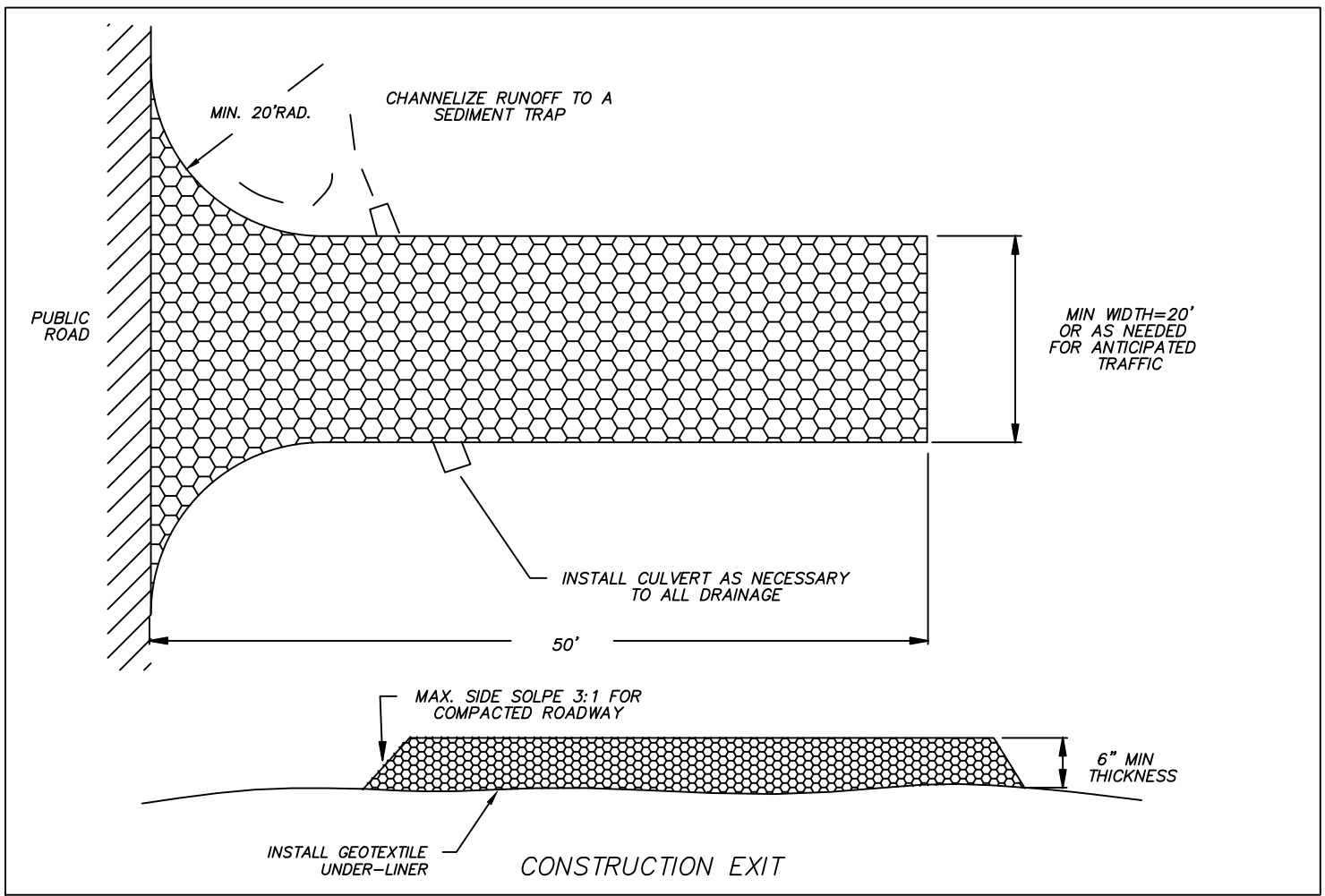
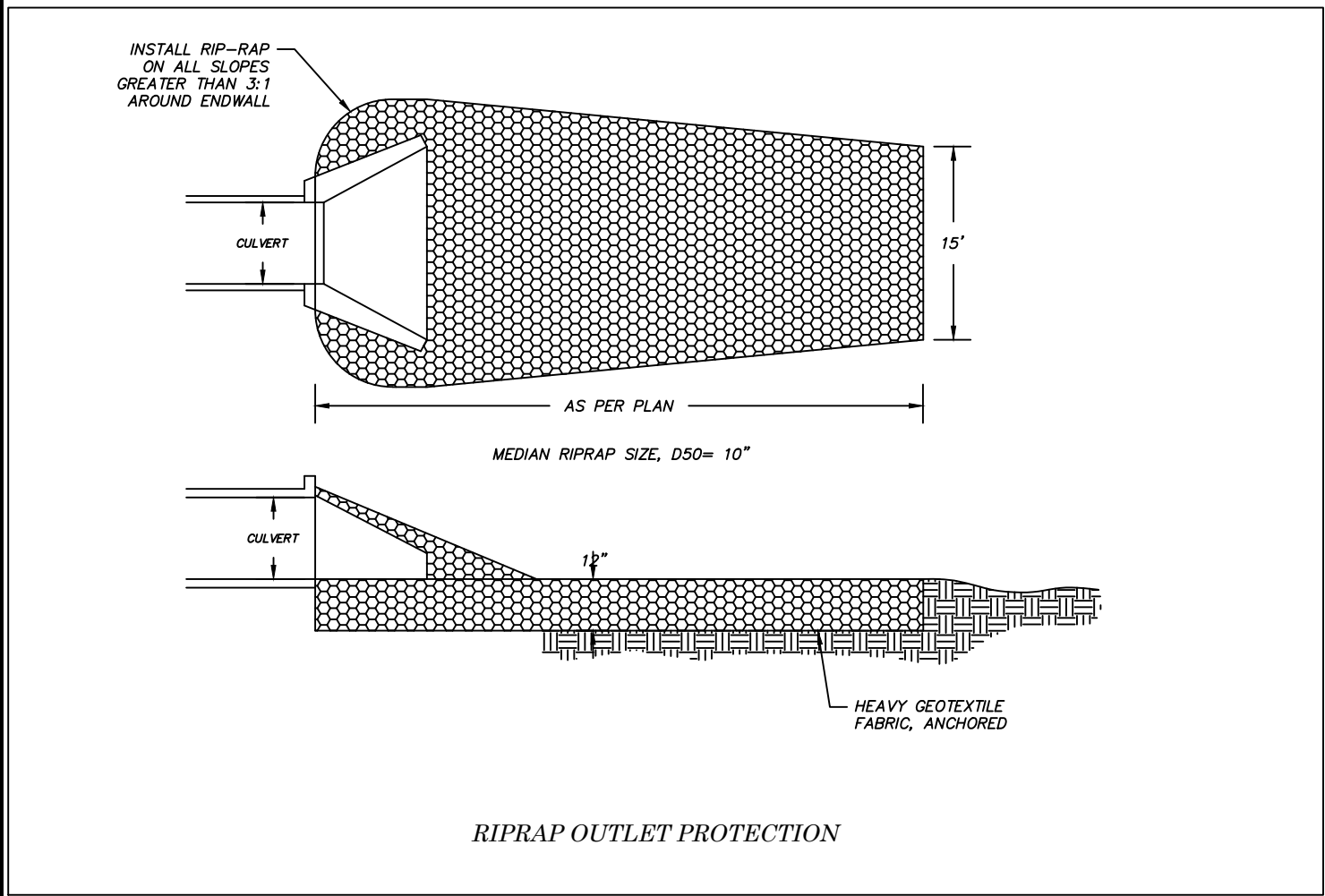


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**BROOKHOLLOW SENIOR
APARTMENTS
ASHLAND CITY, TN
GENERAL DETAILS
SCALE: NONE**



C7.0



Dimensions in inches

Un-Bolted Catalog No.	A	B	C	Type A	Type C	Type D	Type E	Type P	Type Q
R-4990-AX	8	1 1/2	6	x	x	x	x	x	
R-4990-BX	10	1 1/2	8	x	x	x	x	x	
R-4990-CX	12	1 1/2	10	x	x	x	x	x	x
R-4990-DX	14	1 1/2	12	x	x	x	x	x	x
R-4990-EX	17	1 1/2	15	x	x	x	x	x	
R-4990-FX	20	1 1/2	18	x	x	x	x	x	
R-4990-GX	23	1 1/2	21	x	x*	x	x		
R-4990-HX	26	1 1/2	24	x	x*	x	x		x
R-4990-JX	30	2	27	x	x	x			
R-4990-KX	33	2	30	x	x	x*	x		
R-4990-LX	36	2	33	x	x	x*			
R-4990-MX	39	2	36	x	x*	x			
R-4990-NX	45	2	42	x	x*	x			
R-4990-OX	51	2	48	x		x*			

x - Indicates availability.
 * Deep Ribs (consult shop drawing for dimensions).
 Deep Ribs = "B" dimension times 2 or greater.

General schematic shown may not apply to all designs. Bar and rib depths, plate thicknesses and seating widths vary on different sizes and styles. If your project has design restrictions, contact your sales representative or product engineering.

Illustrating Type C trench. Trench sections are furnished in 24" standard lengths.

Note: In Type A and P grates the slots are perpendicular to the trench run. In Type C and Q the slots are parallel with the trench run.

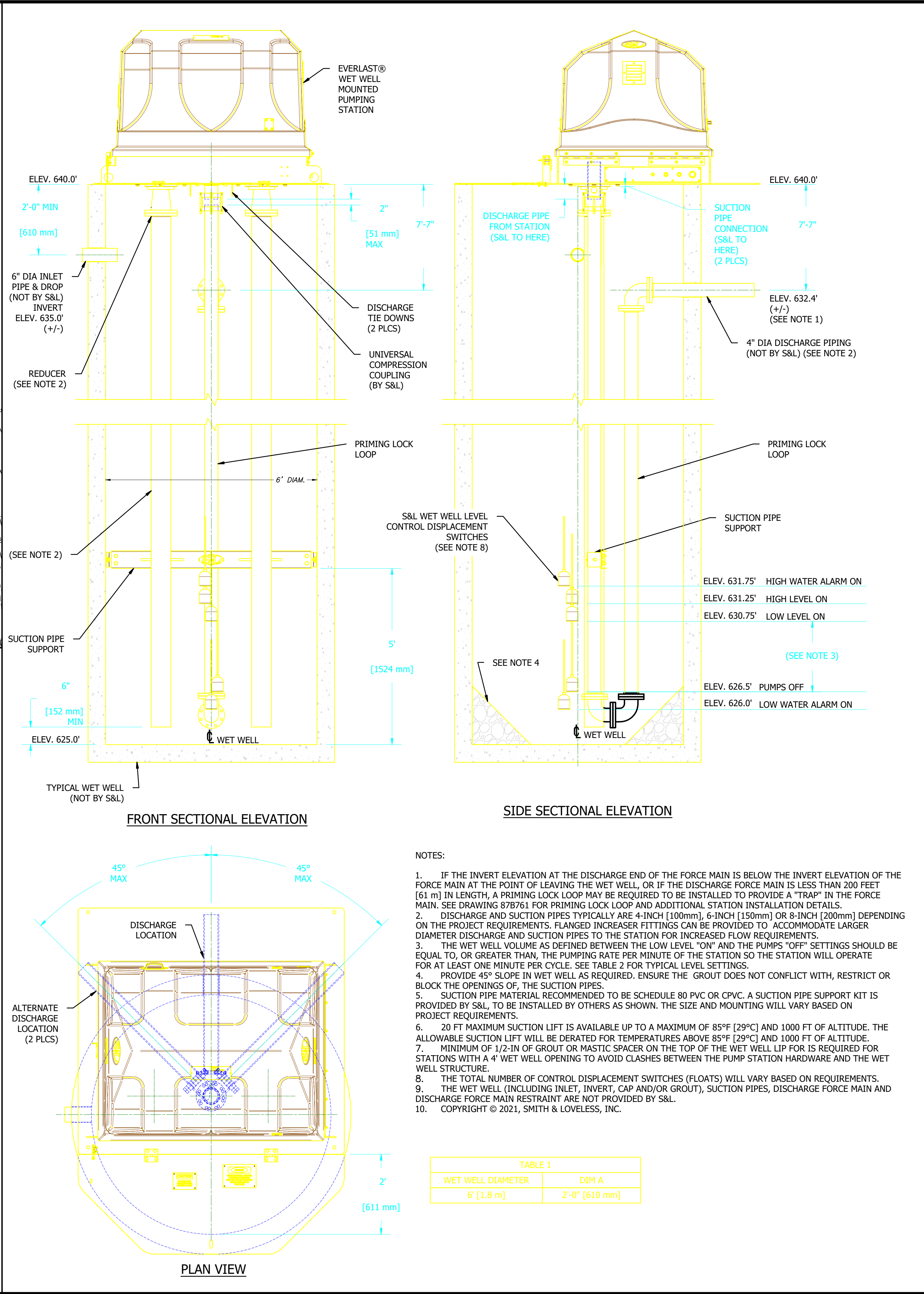
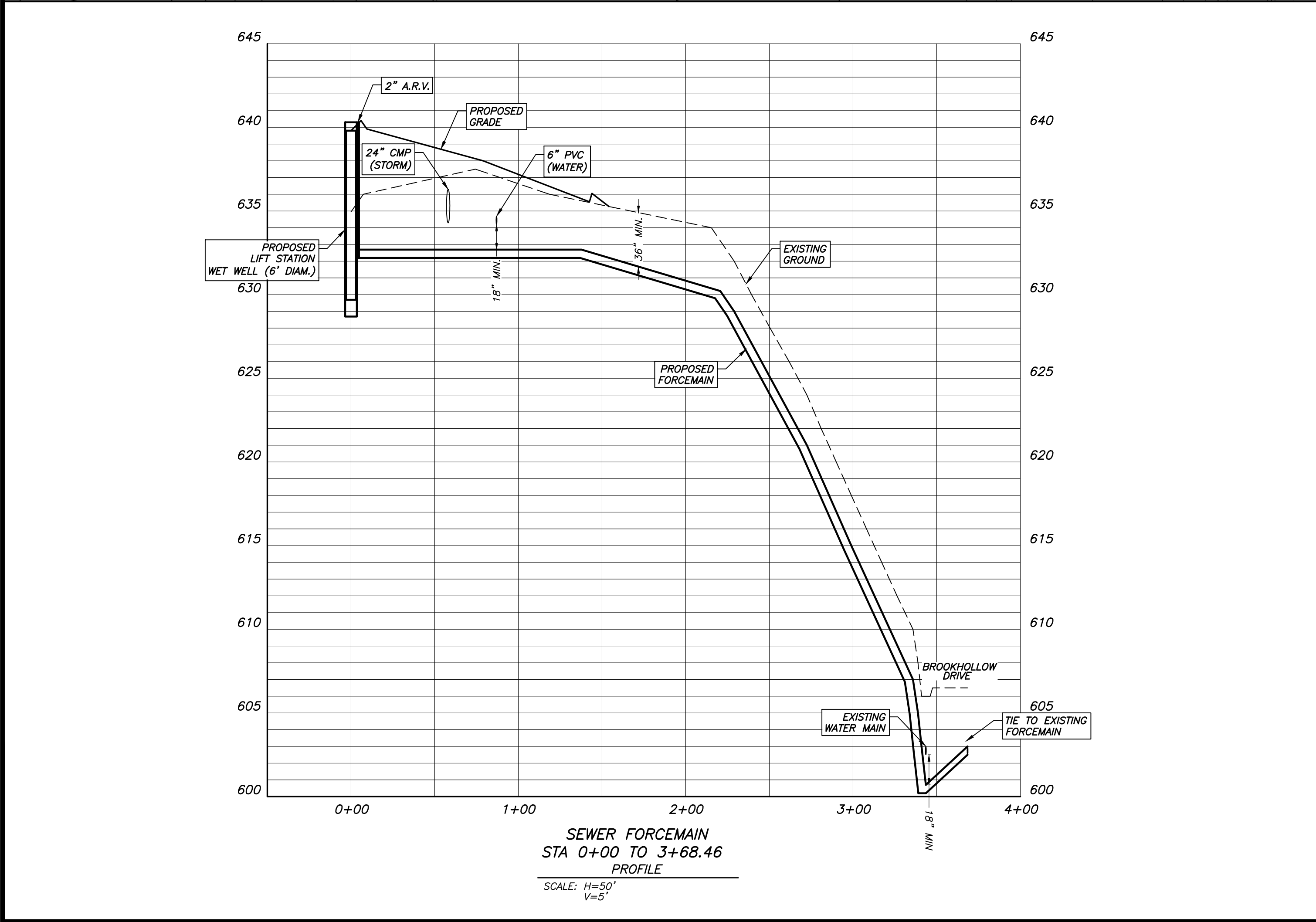
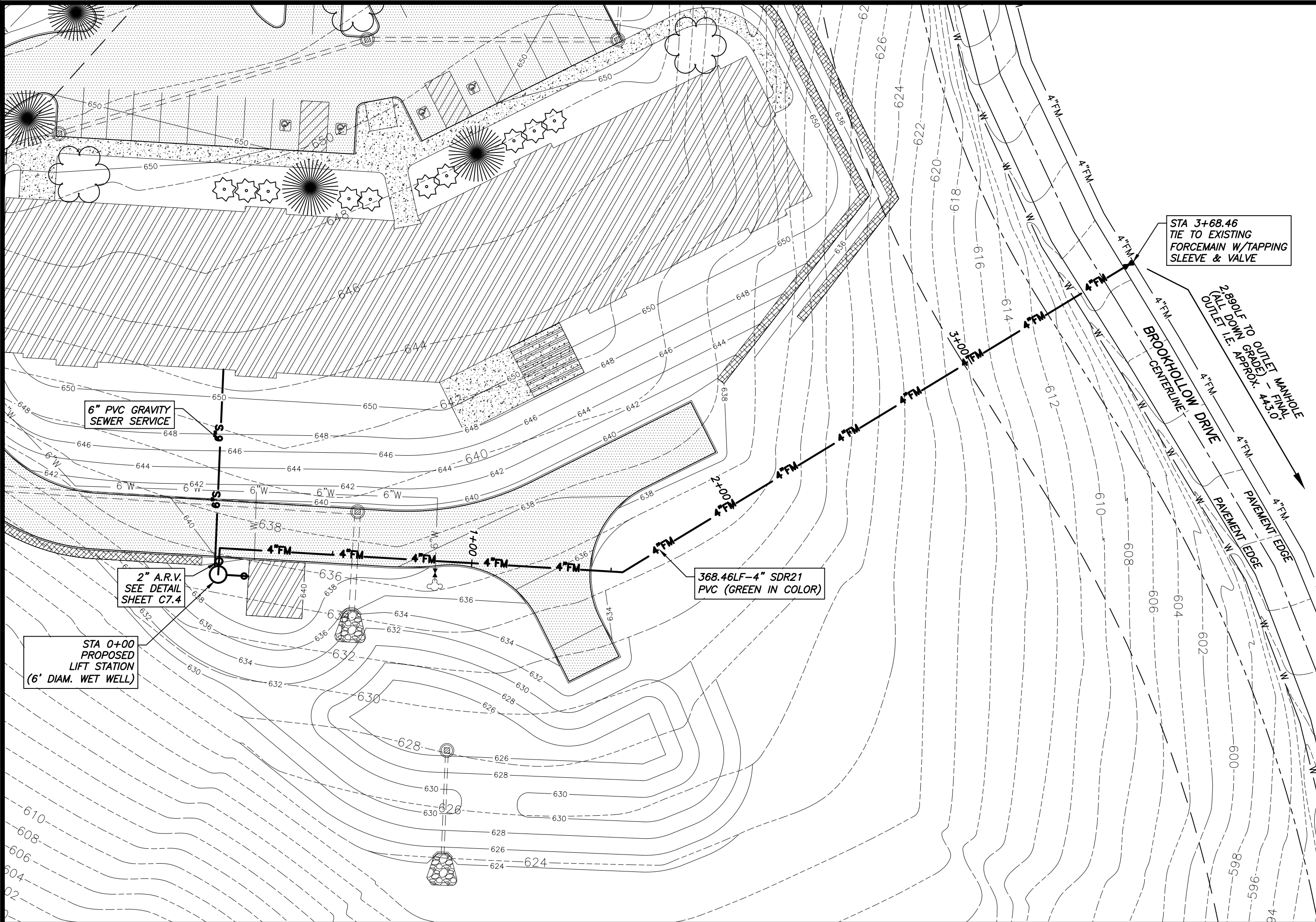
Note: 45°, 90° and "T" available in limited sizes and types.

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 ASHLAND CITY, TN
 GENERAL DETAILS
 SCALE: NONE

C7.1



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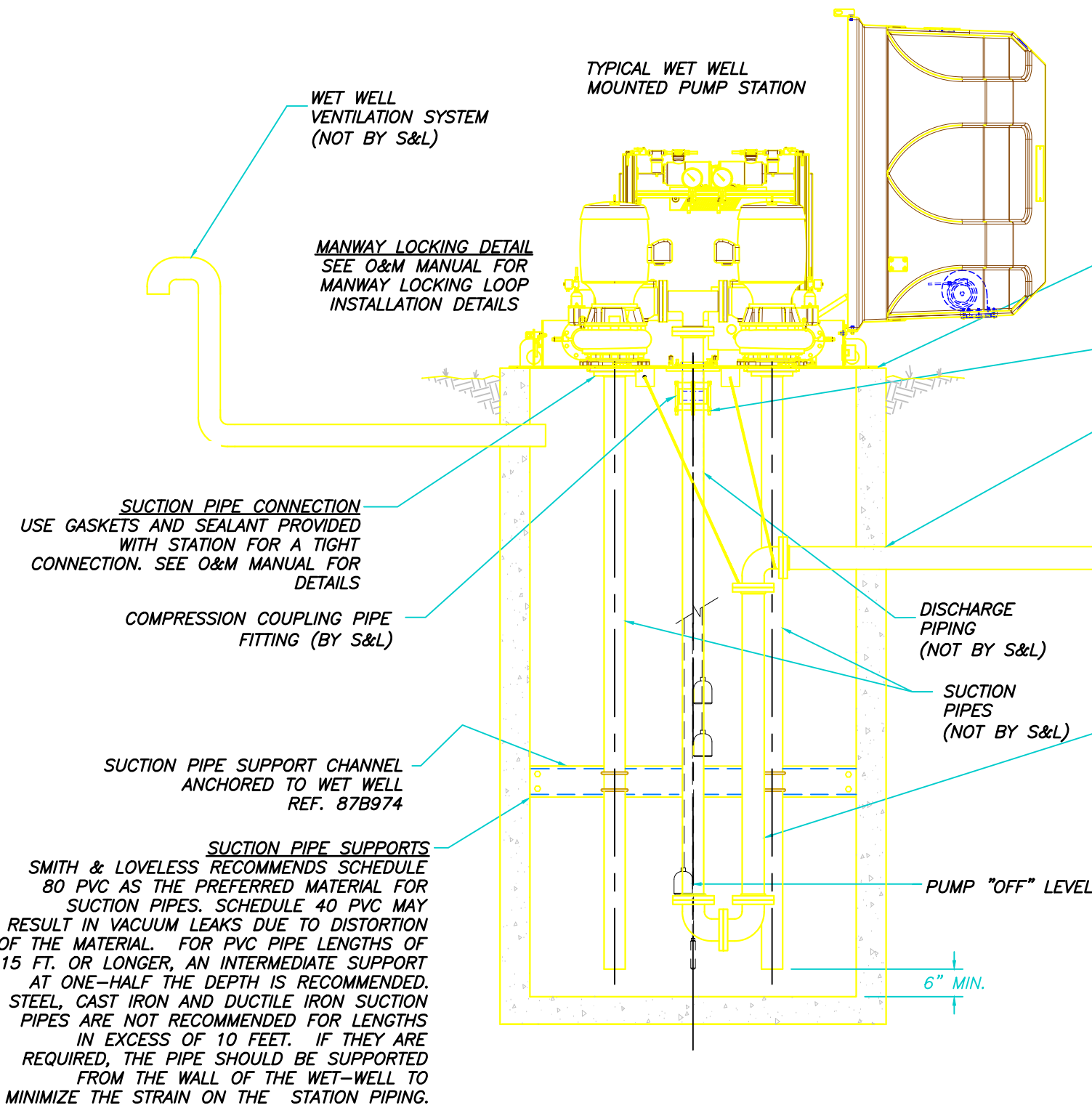
BROOKHOLLOW SENIOR APARTMENTS
ASHLAND CITY, TN
PUMP STATION DETAILS
SCALE: NONE

WILLIAM M. SUTER
REGISTERED ENGINEER
No. 117294
STATE OF TENNESSEE
9/13/23

C7.2

INSTALLATION DETAILS

EVERLAST™ 1000/3000
SERIES



GENERAL WETWELL COMMENTS

THE WETWELL SHOULD BE INSTALLED SO THE TOP REMAINS AS LEVEL AS POSSIBLE. CONTRACTOR IS TO INSTALL SLOPES AROUND THE INTERIOR BOTTOM CORNER OF THE WETWELL.

GROUTING STATION TO WET WELL

PRIOR TO SETTING THE STATION ON TOP OF THE WET WELL, APPLY A LAYER OF NON-SHRINK OR EPOXY GROUT ON THE TOP SURFACE OF THE WET WELL. THE STATION WILL THEN BED DOWN IN THE GROUT, GIVING THE STATION FIRM SUPPORT AND REDUCING NOISE TRANSMISSIONS. THE BASE PLATE SHOULD BE LEVEL IN ALL DIRECTIONS WHEN COMPLETE.

ANCHORING DISCHARGE CONNECTION

THE DISCHARGE IS TO BE ORIENTED IN ACCORDANCE WITH THE ENGINEER'S PLAN. GENERALLY, SMITH & LOVELESS, INC. WILL PROVIDE A COMPRESSION TYPE COUPLING TO JOIN THE FORCE MAIN TO THE STATION DISCHARGE PIPE. COMPRESSION TYPE COUPLINGS DO NOT PROVIDE PIPE END RESTRAINT. TWO LUGS ARE ALSO PROVIDED (ONE ON EITHER SIDE OF THE DISCHARGE) ON THE UNDERSIDE OF THE BASEPLATE FOR SECURING THE VERTICAL SECTION OF THE DISCHARGE PIPE FROM SEPARATING IN THE COUPLING. TIE THE DISCHARGE PIPE TO THE STATION TO PREVENT SEPARATION FROM THE COUPLING IN THE VERTICAL DIRECTION BY USING AN ALL-THREADED ROD, CABLE OR CHAIN (NOT SUPPLIED BY S&L). THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE RESTRAINT AGAINST ANY HORIZONTAL THRUST DEVELOPED. THE RESTRAINT SHALL BE TIED TO THE STRUCTURE, AS THE STATION BASEPLATE IS NOT DESIGNED TO WITHSTAND HORIZONTAL THRUST FORCES. ALL DISCHARGE PIPES SHOULD BE SECURED. DISCHARGE PIPING (NOT BY S&L)

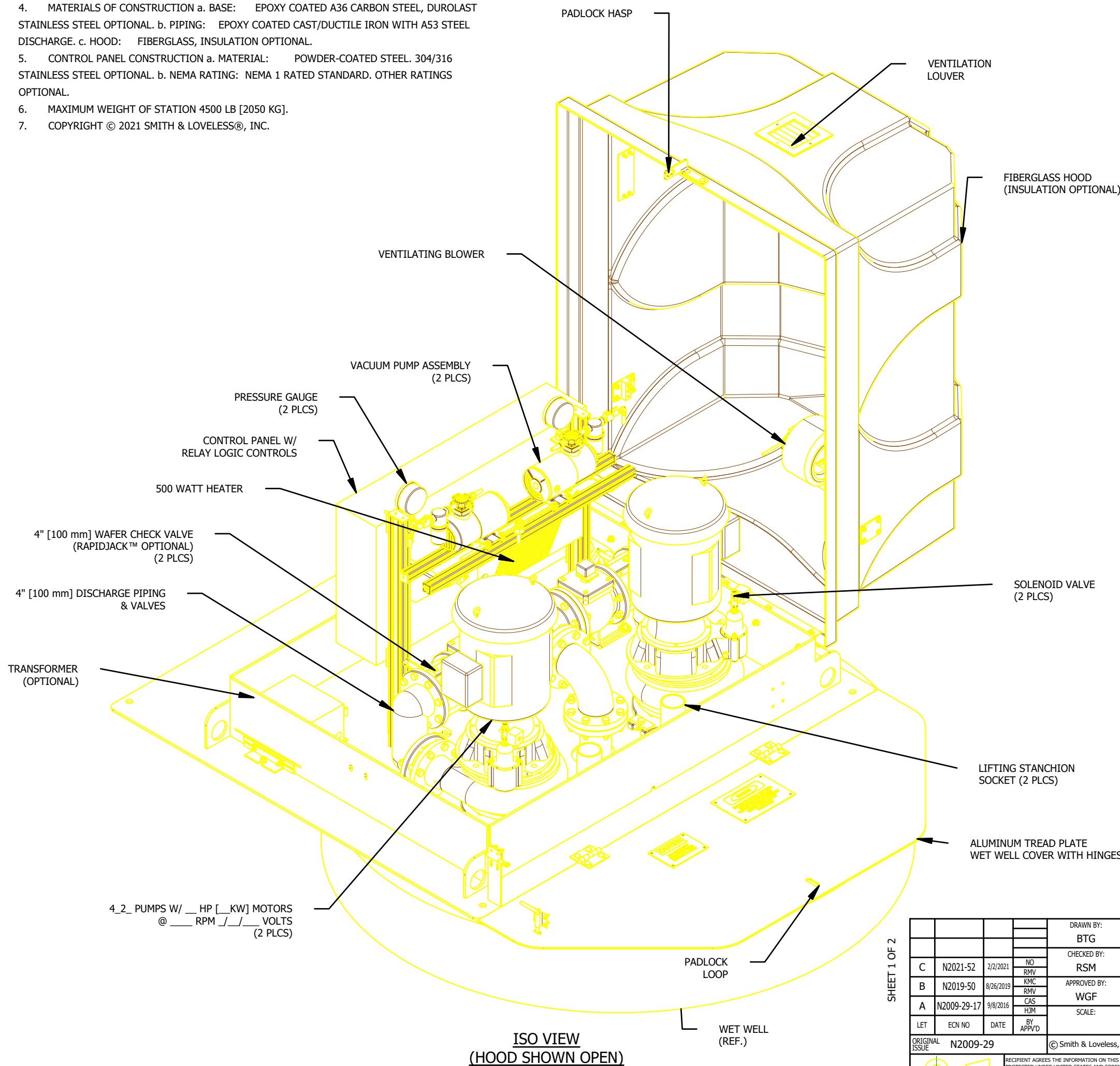
PRIMING LOCK LOOP

THE PURPOSE OF THE PRIMING LOCK LOOP IS TO FORM A RETURN LOOP OR TRAP IN THE FORCE MAIN, EITHER INSIDE OR JUST OUTSIDE THE WET WELL. THE LOOP MUST BE BELOW THE LOW LEVEL OFF ELEVATION. THIS PREVENTS THE ENTIRE CONTENTS OF A SHORT FORCE MAIN FROM RETURNING BY GRAVITY TO THE WET WELL OR BEING SIPHONED BACK INTO THE WET WELL IF THE CHECK VALVE DOES NOT SEAT.

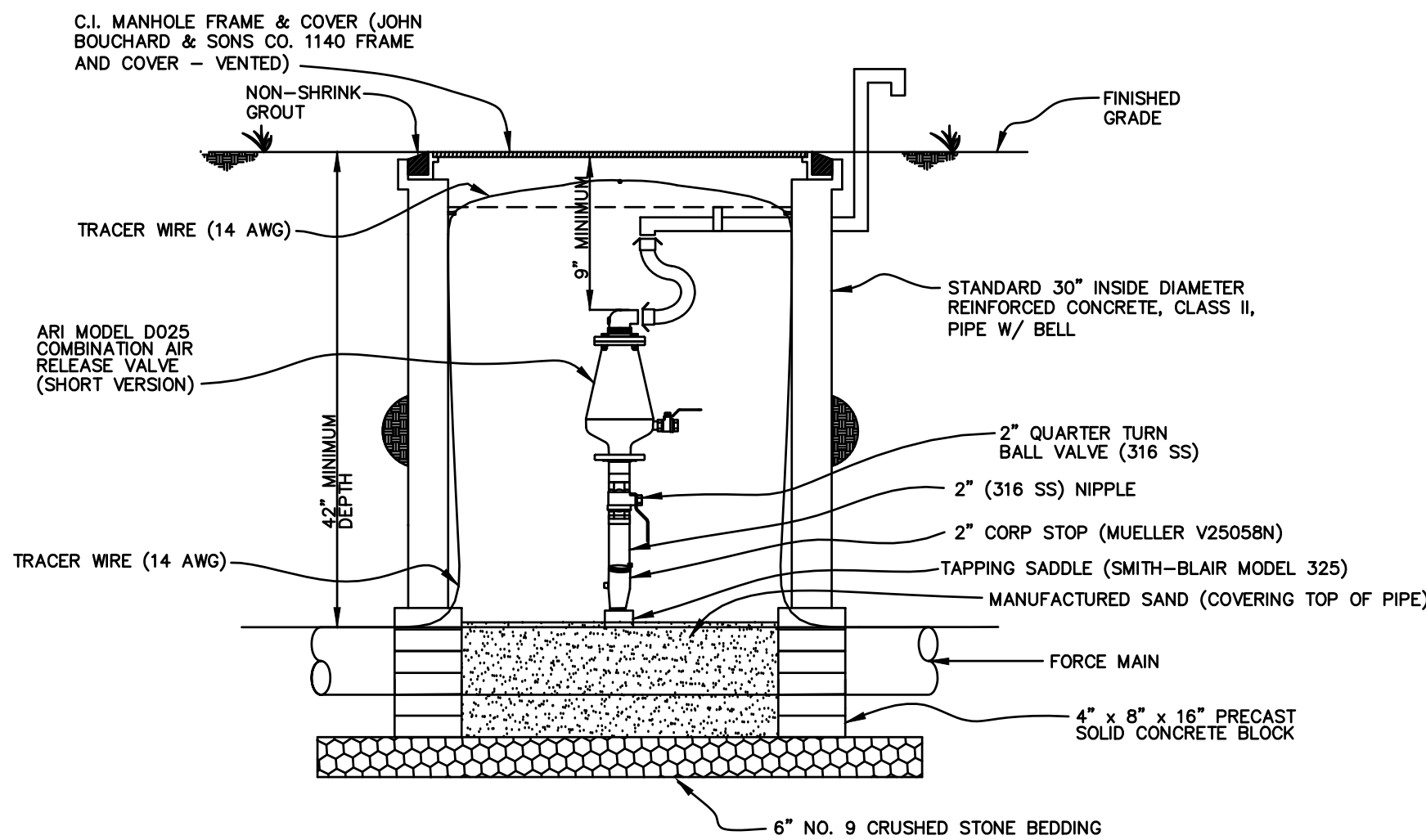
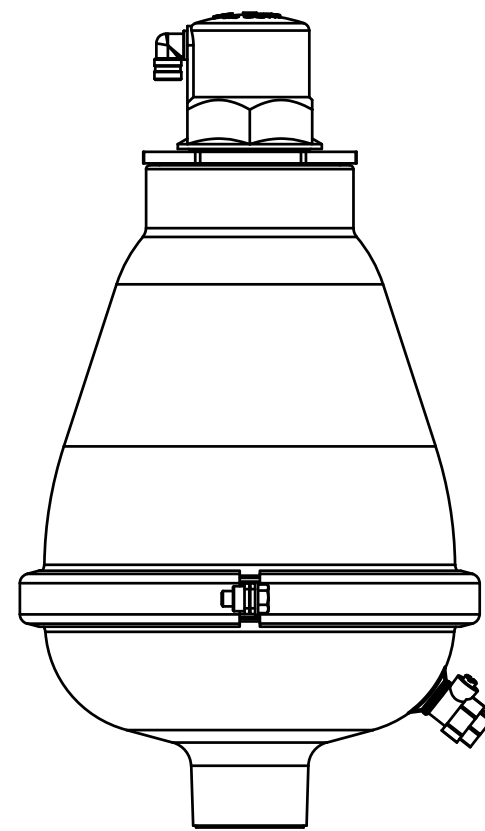
ON FORCE MAINS THAT RUN HORIZONTAL OR DOWN HILL FROM THE STATION, EITHER USE THE PRIME LOCKING LOOP OR THE LAST FEW FEET OF THE FORCE MAIN SHOULD RUN UP HILL TO CREATE A WATER TRAP EFFECT TO PREVENT WATER DRAINING THE FORCE MAIN IN THE FORWARD DIRECTION.

NOTES:

- SEE DRAWING 878761 FOR STATION INSTALLATION DETAILS.
- SEE DRAWING 878721 FOR TYPICAL WET WELL LAYOUT AND LEVEL CONTROL SETTINGS.
- U.S. CUSTOMARY CONDUIT COUPLING SIZES SHOWN. METRIC SIZES OPTIONAL.
- MATERIALS OF CONSTRUCTION a. BASE: EPOXY COATED A36 CARBON STEEL, DUXROLAST STAINLESS STEEL OPTIONAL. b. PIPING: EPOXY COATED CAST/DUCTILE IRON WITH A53 STEEL DISCHARGE. c. HOOD: FIBERGLASS, INSULATION OPTIONAL.
- CONTROL PANEL CONSTRUCTION a. MATERIAL: POWDER-COATED STEEL 304/316 STAINLESS STEEL OPTIONAL. b. NEMA RATING: NEMA 1 RATED STANDARD. OTHER RATINGS OPTIONAL.
- MAXIMUM WEIGHT OF STATION 4500 LB [2050 KG].
- COPYRIGHT © 2021 SMITH & LOVELESS®, INC.

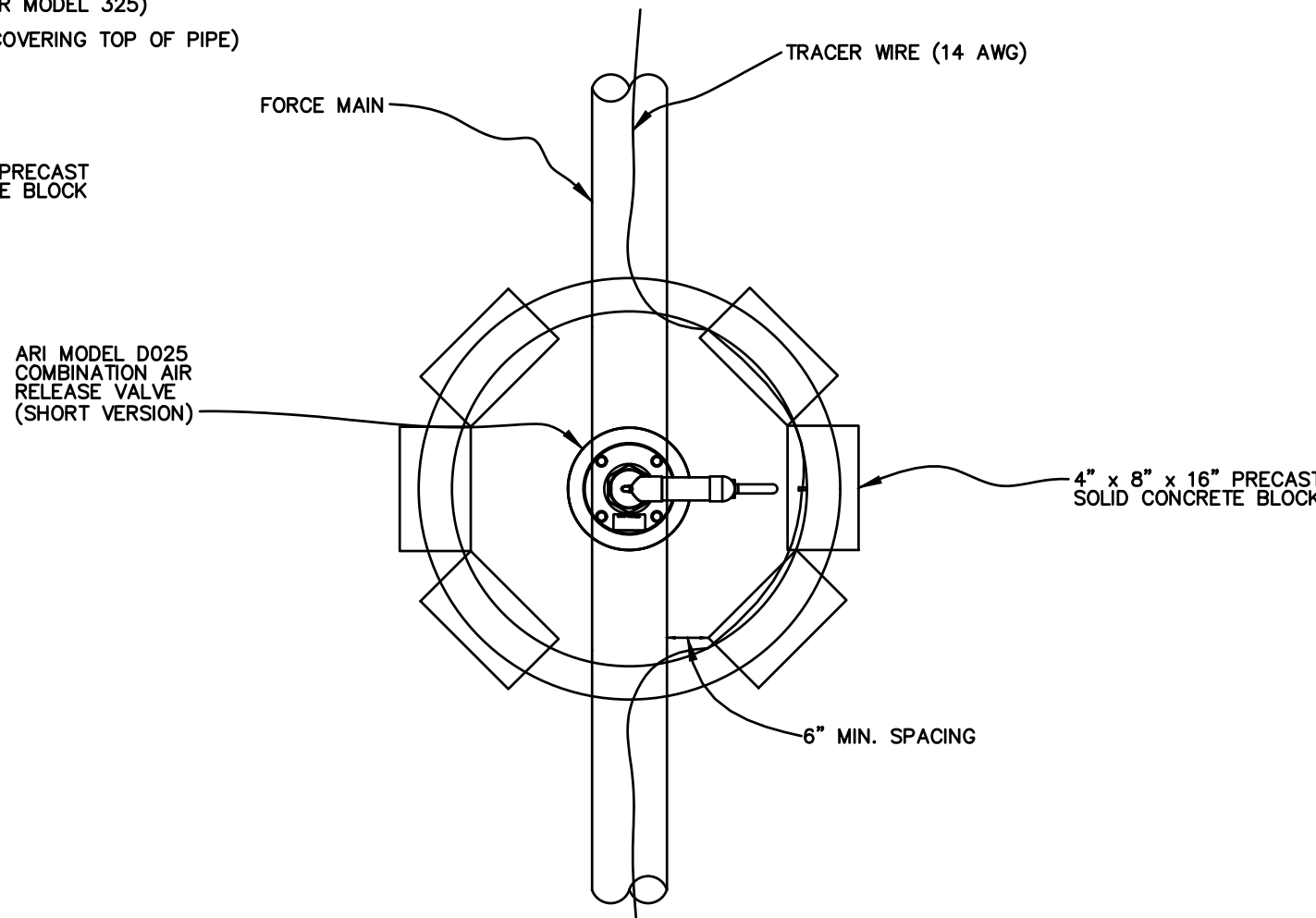


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		RSM		10/1/2015		
		APPROVED BY:		DATE:	DECIMALS	
		WGF		10/1/2015		
		SCALE:		CODE:	ANGLES	
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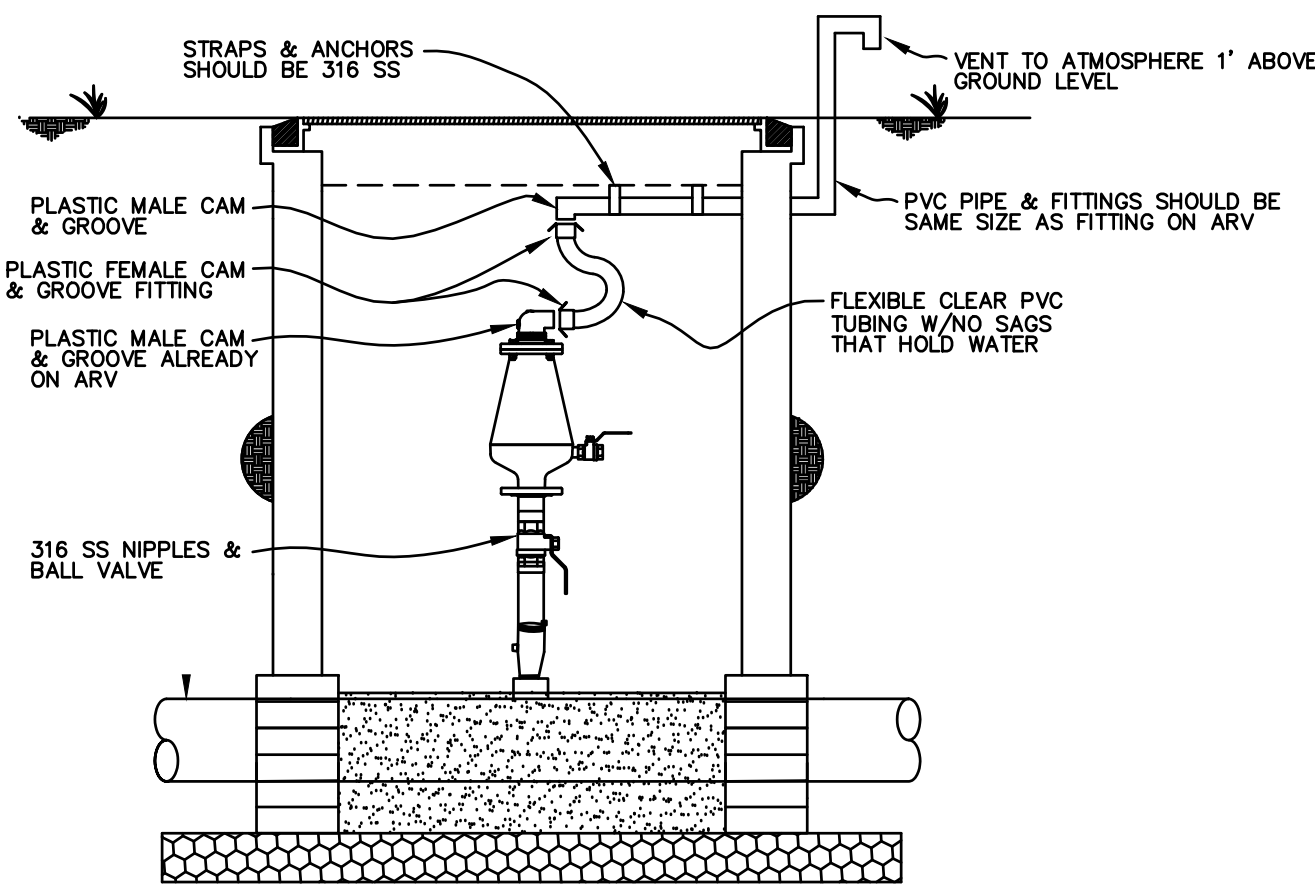


DETAIL
SEWER FORCE MAIN AIR/VACUUM RELEASE VALVE
OVER PIPELINE
N T S

NOTES:
ALL BALL VALVES, NIPPLES AND ANY OTHER APPURTENANCES IN
ARV PITS MUST BE 316 STAINLESS STEEL.



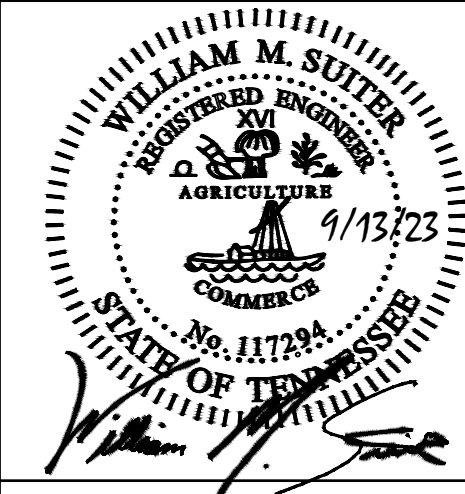
SEWER FORCE MAIN AIR/VACUUM RELEASE VALVE DETAIL
OVER PIPELINE
PLAN VIEW
N T S



NOTES:
1) MANHOLE USED TO COVER THE AIR RELEASE VALVE SHALL BE DOGHOUSE TYPE WITH GRAVEL BOTTOM.
2) AIR RELEASE VALVE SHALL BE SET ON TEE THE SAME SIZE AS MAIN (2"x2", 3"x3", ETC.) ON TAPPED MJ PLUG WITH 2" BALL VALVE BETWEEN A.R.V. & TAP.

ARI MODEL D-025 AIR RELEASE VALVE
NEW SANITARY FORCE MAIN
NO SCALE

BROOKHOLLOW SENIOR
APARTMENTS
ASHLAND CITY, TN
PUMP STATION DETAILS
SCALE: NONE



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