GENERAL NOTES:

- 2. ALL UTILITY LOCATIONS TO BE FIELD VERIFIED BY PROPER AGENCIES BEFORE BEGINNING CONSTRUCTION, UNDERGROUNI
- UTILITIES ARE NOT FIELD LOCATED NOR ARE ALL PURPORTED TO BE SHOWN. INFORMATION SHOWN SHOULD BE CONSIDERED APPROXIMATE. CONTRACTOR TO CONTACT ALL UTILITY COMPANIES TO HAVE UTILITIES FIELD LOCATED THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE
- OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES WITHIN THE WORKING AREA BEFORE COMMENCING WORK & AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE & PRESERVE ANY & ALL
- 4. THE CONTRACTOR SHALL COORDINATE LOCATION & INSTALLATION OF ALL UNDERGROUND UTILITIES & APPURTENANCES TO MINIMIZE DISTURBING CURB & GUTTER, PAVING, EXISTING UTILITIES & COMPACTED SUBGRADE.
- 5. CONTRACTOR SHALL VERIFY EXISTING UTILITY LINE OR EXISTING INFRASTRUCTURE PRIOR TO BEGINNING WORK. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE DRAWING OR IN THE FIELD BEFORE
- 6. CONTRACTOR TO COORDINATE ALL WORK WITH OTHER UTILITY INSTALLATIONS NOT COVERED IN THESE PLANS (ELECTRIC,
- TELEPHONE, GAS, CABLE, ETC.) & ALLOW FOR THEIR OPERATIONS & CONSTRUCTION TO BE PREPARED. 7. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE OWNERS REPRESENTATIVE OR ENGINEER OF ANY DISCREPANCIES OR ERRORS HE DISCOVERS IN THE PLAN.
- 8. DEVIATION FROM THESE PLANS & NOTES WITHOUT THE PRIOR CONSENT OF THE OWNERS REPRESENTATIVE MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE.
- 9. ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES, & ALL NECESSARY LICENSES & PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER/DEVELOPER. 10. FOR ANY WORK IN THE STATE OR CITY RIGHT-OF-WAY, THE CONTRACTOR SHALL
- A. NOT STORE MATERIAL. EXCESS DIRT OR EQUIPMENT ON THE SHOULDERS OF PAVEMENT: IN THE CASE OF MULTI-LANE HIGHWAYS. IN THE MEDIAN STRIPS. THE PAVEMENT SHALL BE KEPT FREE FROM ANY MUD OR EXCAVATION WASTE FROM TRUCKS OR OTHER EQUIPMENT. ON COMPLETION OF THE WORK, ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE
- B. PROVIDE ALL NECESSARY & ADEQUATE SAFETY PRECAUTIONS SUCH AS SIGNS, FLAGS, LIGHTS, BARRICADES & FLAG MEN AS REQUIRED BY THE LOCAL AUTHORITIES & IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL
- DEPARTMENT OF TRANSPORTATION. THE CITY OF SODDY-DAISY & THE OWNER FROM ANY CLAIMS FOR DAMAGE DONE TO EXISTING PRIVATE PROPERTY, PUBLIC UTILITIES, OR TO THE TRAVELING PUBLIC. C. COMPLETE THE WORK TO THE SATISFACTION OF THE CITY OF SODDY-DAISY OR DOT AND OBTAIN A LETTER FROM THE DEPARTMENT STATING THAT THE WORK IS ACCEPTABLE.
- D. POST NECESSARY BONDS AS REQUIRED BY THE CITY AND/OR STATE 11. ALL WORK & MATERIALS SHALL COMPLY WITH CITY OF SODDY-DAISY REGULATIONS & CODES OF O.S.H.A. STANDARDS
- FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED & MAINTAINED THROUGHOUT THE CONSTRUCTION
- 14. CONTRACTORS SHOULD NOT BE DOING ANY OPEN BURNING OF CONSTRUCTION MATERIALS OR DEBRIS WITHOUT A PERMIT FROM THE DEPARTMENT OF AIR POLLUTION CONTROL OR LOCAL AUTHORITY IF A CONTRACTOR DESIRES TO PERFORM OPEN BURNING, HE MUST BE RESPONSIBLE FOR OBTAINING ANY PERMITS AND IS RESPONSIBLE FOR ANY VIOLATION OF
- THE AIR POLLUTION LAWS. 15. CONTRACTOR SHALL BE RESPONSIBLE DURING CONSTRUCTION FOR THE CONTINUOUS MAINTENANCE OF SEDIMENT & EROSION CONTROL MEASURES AS CALLED FOR ON THE DRAWINGS
- 16. EROSION CONTROL MEASURES ARE TO BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION (SEE GRADING & DRAINAGE PLAN AND/OR SEDIMENT & EROSION CONTROL PLAN).
- 17. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED, REPAIRED AS NEEDED & CLEANED OUT TO REMOVE ALL SILT &
- 19. ALL SIDE DITCHES TO BE CLEANED AND/OR REGRADED TO PROVIDE PROPER DRAINAGE.
- 20. ALL AREAS NOT OTHERWISE SURFACED ARE TO BE SEEDED, LANDSCAPED, MULCHED, WATERED, & MAINTAINED UNTIL
- 21. UNLESS OTHERWISE SPECIFIED, ALL SLOPES TO BE COVERED WITH MINIMUM OF 4" OF TOPSOIL. 22. ALL PIPE LENGTHS & DISTANCES BETWEEN STRUCTURES ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF
- 23. THE CONTRACTOR SHALL PROVIDE ALL THE MATERIALS & APPURTENANCES NECESSARY FOR THE COMPLETE INSTALLATION OF THE STORM DRAINAGE. SEWER, WATER & UTILITY SYSTEMS, ALL, PIPE & FITTINGS SHALL BE INSPECTED BY THE UTILITY DEPARTMENT INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING
- PRESSURE TESTING & DISINFECTION OF LATERALS & HIS SIGNATURE OF APPROVAL IS REQUIRED. 24. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL UTILITY AUTHORITIES FOR CONNECTION TO THE EXISTING MAINS & PAY ALL APPLICABLE FEES.
- 25. UTILITY COORDINATION & COSTS SHALL BE INCLUDED IN THE PROJECT SCHEDULE & IT IS THE EXPLICIT RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE PROJECT SCHEDULE INCLUDES THE NECESSARY RELOCATION. THE CONTRACTOR WILL NOT BE PAID ADDITIONALLY FOR THIS COORDINATION. THE CONTRACTOR SHOULD SEEK ASSISTANCE FROM ALL UTILITY COMPANIES TO LOCATE & PROTECT THEIR FACILITIES.
- 27. DIMENSIONS ON BUILDINGS ARE FOR GRADING PURPOSES ONLY & ARE NOT TO BE USED TO LAYOUT FOOTINGS. REFER TO THE STRUCTURAL DRAWINGS FOR FOLINDATION INFORMATION
- 28. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB OR EDGE OF S/W UNLESS NOTED OTHERWISE
- 29. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION. 30. JOINTS OR SCORE MARKS ARE TO BE SHARP & CLEAN WITHOUT SHOWING EDGES OF JOINT TOOL.
- 31. THE CONTRACTOR SHALL PROVIDE FOR ANY NECESSARY BONDS AS REQUIRED BY GOVERNING AGENCIES.
- 32. AN AUTO CAD BASE PLAN MAY BE PROVIDED TO THE CONTRACTOR FOR CONSTRUCTION PURPOSES. 33. TOPOGRAPHIC & BOUNDARY SURVEY BY HAMILTON COUNTY GIS, NO BOUNDARY SURVEY PROVIDED.
- 34. SEE FINAL PLAT BY SURVEYOR FOR LOCATIONS OF ALL NEW SANITARY SEWER & STORM DRAINAGE EASEMENTS, ALL DETENTION AREAS WILL BE A STORM DRAINAGE EASEMENT.

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.
- 2. FOR EXACT BUILDING DIMENSIONS SEE ARCHITECTURAL PLANS. DIMENSIONS ON BUILDINGS ARE FOR GRADING PURPOSES ONLY & ARE NOT TO BE USED TO LAYOUT FOOTINGS. REFER TO THE STRUCTURAL DRAWINGS FOR FOUNDATION INFORMATION.
- 4. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, FACE OF SIDEWALK, OR FACE OF BUILDING UNLESS NOTED OTHERWISE. 5. A 1' CURB TAPER SHALL BE FORMED AT ALL PLACES WHERE CURB & GUTTER MEETS AN ADJACENT CONCRETE SIDEWALK
- OR PARKING AREA WHICH IS 0.5' LOWER THAN THE TOP OF CURB ELEVATION. 6. REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

DEMOLITION NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING DEMOLITION PERMITS AS WELL AS OTHER ASSOCIATED PERMITS PRIOR TO CONSTRUCTION. 2. DIMENSIONS ON BUILDINGS ARE FOR GRADING PURPOSES ONLY & ARE NOT TO BE USED TO LAYOUT FOOTINGS. REFER
- TO THE STRUCTURALDRAWINGS FOR FOUNDATION INFORMATION 3. ALL DEMOLITION DIMENSIONS SHOWN ARE APPROXIMATE & SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR SHALL SAW-CUT TIE-INS AT EXISTING PAVEMENT OR CONC. AREAS AS NECESSARY TO ENSURE SMOOTH TRANSITIONS. THE CONTRACTOR SHALL SAW-CUT AND TRANSITION TO MEET EXISTING PAVEMENT AS NECESSARY & AS DIRECTED BY THE INSPECTOR TO ENSURE POSITIVE DRAINAGE (TYPICAL AT ALL INTERSECTIONS). INSTALL EXPANSION JOINTS AT ALL CONC. SAW-CUT TIE-INS.
- 5. ALL EXISTING TREES, VEGETATION & ORGANIC TOPSOIL SHALL BE STRIPPED & REMOVED FROM THE CONSTRUCTION
- 6. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED, OR RELOCATED AS REQUIRED. COORDINATE WITH PROPER AUTHORITIES AND/OR UTILITY COMPANIES.

7. REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

- **DRAINAGE & GRADING NOTES:** CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS.
- 2. NEW FINISHED CONTOURS SHOWN ARE TOP OF NEW PAVING IN AREAS TO RECEIVE PAVEMENT & TOP OF TOPSOIL IN
- 3. PROPOSED CONTOUR INTERVALS ARE AS LABELED. ALL PROPOSED CONTOURS ARE FINISHED GRADE.
- 4. CONTRACTOR SHALL NOTIFY & COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION WITH THE ALTERNATION OF OR RELOCATION OF THE FACILITIES.
- CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES AS REQUIRED TO MATCH FINISHED GRADES. 5. A QUALIFIED SOILS LABORATORY SHALL DETERMINE THE SUITABILITY OF THE EXISTING SUB-GRADE & EXISTING ON SITE MATERIAL PRIOR TO BEGINNING ANY FILLING OPERATION. 6. UNUSABLE EXCAVATED MATERIALS (SOIL) SHALL BE RESPREAD ON SITE AT LOCATIONS APPROVED BY THE ARCHITECT.
- ALL WASTE RESULTING FROM DEMOLITION, CLEARING & GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR AT AN APPROVED LOCATION . BEFORE ANY MACHINE WORK IS DONE, CONTRACTOR SHALL STAKE OUT & MARK THE ITEMS ESTABLISHED BY THE SITE PLAN. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF THE PROJECT. LACK OF PROPER
- WORKING POINTS AND GRADE STAKES MAY REQUIRE CESSATION OF OPERATIONS UNTIL SUCH POINTS & GRADES HAVE BEEN PLACED TO THE OWNER'S SATISFACTION. 8. COMPACTION OF THE BACK FILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THEORETICAL MAXIMUM DRY DENSITY (ASTM D698). BACK FILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS & SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR
- FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. 9. THE CONTRACTOR WILL INSURE THAT POSITIVE & ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED OR RECONSTRUCTED AS REQUIRED BY THE ENGINEER EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS IN & HAVING SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE AT ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
- 10. THE CONTRACTOR SHALL PROVIDE ANY EXCAVATION & MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. ALL ARRANGEMENTS & SCHEDULING FOR THE TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. 11. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY EXISTING GRADES ESPECIALLY WITHIN & ALONG DRAINAGE
- WAYS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK. 12. UNLESS OTHERWISE SPECIFIED, ALL SLOPES TO BE COVERED WITH MINIMUM OF 4" TOPSOIL. 13. MAXIMUM EMBANKMENT SLOPES TO BE AS FOLLOWS: CUT AREA - 3:1; FILL AREAS 3:1 (UNLESS NOTED OTHERWISE).
- 14. STOCKPILED TOPSOIL IS TO BE SPREAD OVER LAWN AREAS AT COMPLETION OF PROJECT (PROVIDE 4" MINIMUM SPREAD). IT IS THE INTENT OF THIS PROJECT FOR THE CONTRACTOR TO VERIFY & MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED.
- 15. THE CONTRACTOR SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY ITEMS THAT DO NOT EXIST AS SHOWN. 16. STORM DRAIN PIPE TO BE CLASS III REINFORCED CONCRETE CONFORMING TO ASTM C-76, OR CMP, FULLY COATED (16 GAGE MIN.) PER ASTM A44. OR ADS N-12 WITH WATERTIGHT GASKET AS SHOWN ON DRAWINGS. 17. PRE CAST STRUCTURES MAY BE USED AT THE CONTRACTORS OPTION. ALL CONCRETE TO HAVE A MINIMUM 28 DAY
- 18. CONTRACTOR SHALL BLEND ALL SLOPES WITH THE SURROUNDING ENVIRONMENT.

20. REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

19. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER FOR ANY FIELD GRADE ADJUSTMENTS NEEDED DUE TO ACTUAL TOPOGRAPHY VARYING FROM THE TOPOGRAPHIC SURVEY

UTILITY NOTES:

EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW PIPELINES

- ALL SERVICE LATERALS SHALL BE MARKED WITH MAGNETIC TAPE. LINES UNDERGROUND SHALL BE INSTALLED, TESTED & APPROVED BEFORE BACKFILLING. PRESSURE & LEAKAGE TESTS SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT AWWA STANDARD C600 AND/OR MANUFACTURER'S PROCEDURE
- PRE CAST STRUCTURES MAY BE USED AT THE CONTRACTORS OPTION ALL CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I
- THE SITE UTILITY CONTRACTOR SHALL COOPERATE & WORK WITH OTHER CONTRACTORS PERFORMING WORK ON THIS PROJECT TO INSURE PROPER & TIMELY COMPLETION OF
- LUBRICANTS SHALL BE NON-TOXIC & SHALL NOT PROMOTE BIOLOGICAL GROWTH SOLVENT CEMENTED JOINTS NOT PERMITTED.
- ALL VALVES (G.V.) SHALL BE GATE VALVES WITH CAST IRON BOXES. WATER INSTALLATION SHALL BE IN ACCORDANCE WITH "TEN STATES STANDARDS" AND LOCAL UTILITY DISTRICT STANDARDS & REGULATIONS . CONNECTION TO THE EX WATER MAIN SHALL BE MADE UNDER THE SUPERVISION OF THE LOCAL WATER UTILITY.
- 2. RADIUS (DEFLECT) WATER LINES IN LIEU OF FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS 13. ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 36". 14. WHERE WATER PIPING CROSSES THE SANITARY SEWER LINE. THE WATER SERVICE WITHIN 10-FEET OF THE POINT OF CROSSING SHALL BE AT LEAST 18-INCHES ABOVE THE TOP
- OF THE SEWER LINE. THE SEWER LINE SHALL BE OF DUCTILE IRON WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF THE CROSSING. 15. WATER MUST BE CONSTRUCTED BY A LICENSED MUNICIPAL UTILITY CONTRACTOR (CLASSIFICATION MU). 16. ALL MATERIALS SHALL RELILLISTED & FACTORY MUTUAL APPROVED LINLESS, OTHERWISE DIRECTED BY THE ENGINEE
- THRUST BLOCKS SHALL BE PROVIDED AT ALL TEES, ELBOW & BENDS OF SUFFICIENT SIZE TO COMPLY WITH MINIMUM STANDARDS OF N.F.P.A. #24 EXISTING SOIL CONDITIONS (UNLESS NOTED TO BE D.I.P.) & SHALL BE LAID ON A MINIMUM SLOPE OF 1.10%. . SANITARY SEWER SERVICE LINES SHOWN AS 4" P.V.C. (UNLESS NOTED TO BE D.I.P.) & SHALL BE LAID ON A MINIMUM SLOPE OF 1.10%
-). A CONCRETE ANCHOR BLOCK AS SHOWN ON THE UTILITY DETAIL SHEET SHALL BE POURED AROUND THE FIRST BELL & SPIGOT PIPE JOINT RESTRAINT FROM THE END OF THE
- 1. THE MECHANICAL RESTRAINT SECURING THE JOINT SHALL BE WRAPPED WITH PLASTIC PRIOR TO THE POURING OF THE CONCRETE. THE INTENT OF THE CONCRETE ANCHOR BLOCK WILL HELP KEEP THE JOINTS FROM SEPARATING NEAR THE END OF THE WATERLINE.
- ALL DUCTILE IRON PIPE TO BE AWWA C-151-81, CLASS 50
- 23. ALL UNDERGROUND FITTINGS TO BE MECH JOINT AWWA C110/A21.10, CLASS 250 24. ALL UNDERGROUND VALVES TO BE MECH JOINT AWWA C509. CLASS 250
- 25. ALL UNDERGROUND JOINTS TO BE TESTED & FLUSHED AS PER NFPA #24
- 7. FIRE HYDRANTS ARE TO BE INSTALLED SO THAT THE FIRE DEPARTMENT CONNECTION FACES THE STREET. 28 THE FIRE HYDRANT CONNECTION IS TO BE NO LESS THAN 18" OR MORE THAN 36" ABOVE FINISHED GRADE
- 29. FIRE HYDRANTS SHALL BE CLEAR OF ANY OBSTRUCTIONS WITHIN 5 FT IN ANY DIRECTION PARALLEL WITH THE APPROACH OR THE VISIBILITY OF ANY FIRE HYDRANT, OR F.D.C./SIAMESE. FIRE HYDRANTS LOCATED IN PARKING AREAS SHALL BE PROTECTED BY BARRIERS THAT WILL PREVENT PHYSICAL DAMAGE BY VEHICLES (NFPA 11413-6.5, 3-6.6). PROCEDURE FOR DISINEECTING POTABLE WATER LINES SHALL CONFORM TO THE REQUIREMENTS OF AWWA C601. ALL PIPING FROM THE "POINT OF SERVICE" INCLUDING
- UNDERGROUND USED FOR SPRINKLER OR STANDPIPE SYSTEM MUST BE INSTALLED BY A TENNESSEE REGISTERED SPRINKLER CONTRACTOR. [RULE 0780-2-7-08] REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

ADDITIONAL SANITARY SEWER SYSTEM NOTES:

- 2. ALL SERVICE LATERALS SHALL BE MARKED WITH MAGNETIC TAPE. 3. LINES UNDERGROUND SHALL BE INSTALLED, TESTED & APPROVED BEFORE BACKFILLING.
- 4. ALL MANHOLES REQUIRE "KOR-N-SEAL" OR EQUAL RUBBER SEALS. SEWER PIPE SHALL HAVE GRAVEL BEDDING IN ACCORDANCE WITH CITY SANITARY SEWER
- 6. CONCRETE RELATED TO SANITARY SEWER CONSTRUCTION TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 P.S.I. THE SITE UTILITY CONTRACTOR SHALL COOPERATE & WORK WITH OTHER CONTRACTORS PERFORMING WORK ON THIS PROJECT TO INSURE PROPER &
- 8. CONCENTRIC MANHOLES ONLY ARE TO BE USED ON THIS PROJECT. NO ECCENTRIC MANHOLES ARE TO BE INSTALLED.
- 9. LUBRICANTS SHALL BE NON-TOXIC & SHALL NOT PROMOTE BIOLOGICAL GROWTH SOLVENT CEMENTED JOINTS NOT PERMITTED. 10. ALL SERVICE LATERALS SHALL BE MARKED WITH MAGNETIC TAPE.
- 11. THE SANITARY SEWER SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH "TEN STATES STANDARDS", TDEC STANDARDS & REGULATIONS & THE CITY OF
- SODDY-DAISY/ HAMILTON COUNTY STANDARD DETAILS & SPECIFICATIONS. 12. SANITARY SEWER SERVICE LINES SHOWN AS 6" P.V.C. (UNLESS NOTED TO BE D.I.P.) & SHALL BE LAID ON A MINIMUM SLOPE OF 1.10%.
- 13. SANITARY SEWER SERVICE LINES SHOWN AS 4" P.V.C. (UNLESS NOTED TO BE D.I.P.) & SHALL BE LAID ON A MINIMUM SLOPE OF 1.10%.
- 14. NO MANHOLE COVERS OR CLEANOUTS ARE TO BE LOCATED IN THE CURB & GUTTER. 15. REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

WATER DISTRIBUTION SYSTEM NOTES:

- EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW PIPELINES
- ALL SERVICE LATERALS SHALL BE MARKED WITH MAGNETIC TAPE.
- CONTRACTOR TO COORDINATE WITH THE UTILITY FOR CONNECTION TO EXISTING WATER MAIN. WHERE WATER PIPING CROSSES THE SANITARY SEWER LINE, THE WATER SERVICE WITHIN 10-FEET OF THE POINT OF CROSSING SHALL BE AT LEAST 18-INCHES
- ABOVE THE TOP OF THE SEWER LINE. THE SEWER LINE SHALL BE OF DUCTILE IRON WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF THE CROSSING. LINES UNDERGROUND SHALL BE INSTALLED, TESTED & APPROVED BEFORE BACKFILLING.
- WATERLINES MUST BE CONSTRUCTED BY A LICENSED MUNICIPAL UTILITY CONTRACTOR (CLASSIFICATION MU UPON COMPLETION OF THIS PROJECT, "AS-BUILT" DRAWINGS MUST BE SUBMITTED TO THE ENGINEER, OWNER, & UTILITY.
- 8. PRE CAST STRUCTURES MAY BE USED AT THE CONTRACTORS OPTION. 9. ALL CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I.
- 10. THE SITE UTILITY CONTRACTOR SHALL COOPERATE & WORK WITH OTHER CONTRACTORS PERFORMING WORK ON THIS PROJECT TO INSURE PROPER & TIMELY
- 11. ALL MATERIALS SHALL BE UI LISTED & FACTORY MUTUAL APPROVED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. 12. THRUST BLOCKS SHALL BE PROVIDED AT ALL TEES, ELBOW & BENDS OF SUFFICIENT SIZE TO COMPLY WITH MINIMUM STANDARDS OF N.F.P.A. - EXISTING SOIL
- 13 A CONCRETE ANCHOR RUCK AS SHOWN ON THE LITH ITY DETAIL SHEET SHALL BE POURED AROUND THE FIRST RELL & SPIGOT PIPE JOINT RESTRAINT BE FROM THE
- END OF THE WATERLINE. THE MECHANICAL RESTRAINT SECURING THE JOINT SHALL BE WRAPPED WITH PLASTIC PRIOR TO THE POURING OF THE CONCRETE. THE INTENT OF THE CONCRETE ANCHOR BLOCK WILL HELP KEEP THE JOINTS FROM SEPARATING NEAR THE END OF THE WATERLINE.
- 14. ALL DUCTILE IRON PIPE TO BE AWWA C-151-81, CLASS 50
- ALL UNDERGROUND VALVES TO BE MECH JOINT AWWA C509, CLASS 250 17. ALL UNDERGROUND JOINTS TO BE TESTED & FLUSHED AS PER NFPA #24
- 18. ADEQUATE THRUST BLOCKS TO BE PROVIDED AS PER NFPA #24
- 19. THE CONTRACTOR SHALL ADJUST LOCATION OF PROPOSED WATER LINES AS REQUIRED TO AVOID CONFLICTS WITH STORM & OTHER UTILITIES. 20. FIRE HYDRANTS ARE TO BE INSTALLED SO THAT THE FIRE DEPARTMENT CONNECTION FACES THE STREET. THE FIRE HYDRANT CONNECTION IS TO BE NO LESS THAN 18" OR MORE THAN 36" ABOVE FINISHED GRADE. FIRE HYDRANTS SHALL BE CLEAR OF ANY OBSTRUCTIONS WITHIN 5 FT IN ANY DIRECTION PARALLEL WITH THE APPROACH OR THE VISIBILITY OF ANY FIRE HYDRANT, OR F.D.C./SIAMESE. FIRE HYDRANTS LOCATED IN PARKING AREAS SHALL BE PROTECTED BY BARRIERS THAT
- WILL PREVENT PHYSICAL DAMAGE BY VEHICLES (NFPA 11413-6.5, 3-6.6). 21. LUBRICANTS SHALL BE NON-TOXIC & SHALL NOT PROMOTE BIOLOGICAL GROWTH SOLVENT CEMENTED JOINTS NOT PERMITTED.
- 22. PROCEDURE FOR DISINFECTING POTABLE WATER LINES SHALL CONFORM TO THE REQUIREMENTS OF AWWA C601. 23. PRESSURE & LEAKAGE TESTS SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT AWWA STANDARD C600 AND/OR MANUFACTURER'S PROCEDURE. 24. WHERE PROPOSED WATER LINE EXTENDS UNDER ANY PAVED SURFACE, THE TRENCH MUST BE BACKFILLED WITH APPROVED STONE.
- 25. ALL VALVES (G.V.) SHALL BE GATE VALVES WITH CAST IRON BOXES. 26. WATER INSTALLATION SHALL BE IN ACCORDANCE WITH "TEN STATES STANDARDS", TDEC STANDARDS & REGULATIONS, & THE CITY OF SODDY-DAISY STANDARDS.
- 27. CONNECTION TO THE WATER MAIN SHALL BE MADE UNDER THE SUPERVISION OF THE LOCAL WATER UTILITY. 28. RADIUS (DEFLECT) WATER LINES IN LIEU OF FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
- 29. ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 36". 30. THE CONTRACTOR SHALL NOTIFY THE WATER UTILITY & THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
- 31. NO FIRE HYDRANTS OR WATER VALVE BOXES ARE TO BE LOCATED IN THE CURB & GUTTER 32. ALL PIPING FROM THE "POINT OF SERVICE" INCLUDING UNDERGROUND USED FOR SPRINKLER OR STANDPIPE SYSTEM MUST BE INSTALLED BY A TENNESSEE
- REGISTERED SPRINKLER CONTRACTOR, IRULE 0780-2-7-081 33 REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

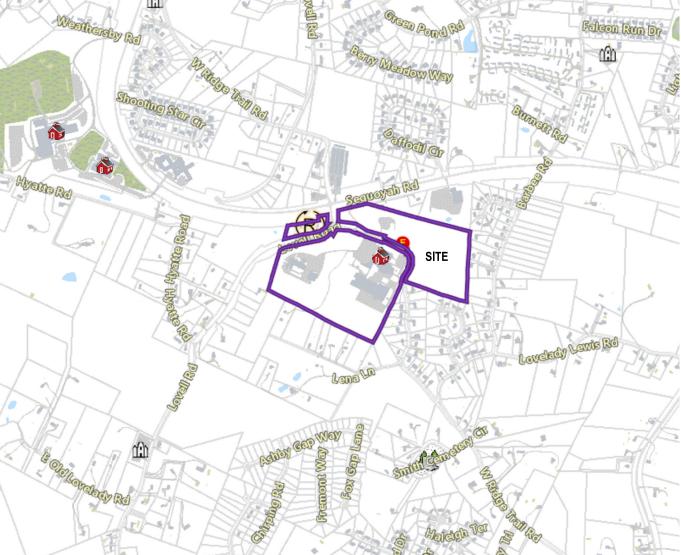
LANDSCAPE NOTES:

- ALL PLANTS MUST BE HEALTHY, VIGOROUS & FREE OF PESTS & DISEASE.
- ALL PLANTS MUST BE CONTAINER-GROWN OR BALLED & BUR LAPPED AS INDICATED IN THE PLANT LIST.
- 3. ALL TREES MUST BE FULL HEADED & MEET ALL REQUIREMENTS SPECIFIED.
- ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
- ALL PLANTS & PLANTING AREAS MUST BE COMPLETELY MULCHED AS SHOWN IN DETAILS. PRIOR TO CONSTRUCTION; THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES & SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY & ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC, WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS, BEFORE PRICING THE WORK. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING. FERTILIZING, ETC.) OF PLANTING AREAS & LAWNS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE LANDSCAPE ARCHITECT AND OWNER. THE LANDSCAPE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF TOTAL

ACCEPTANCE. THE LANDSCAPE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD (AS PER

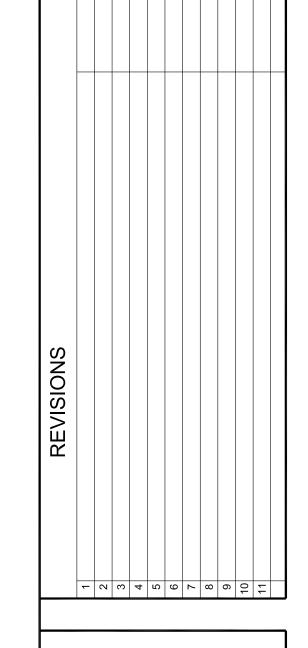
- DIRECTION OF THE OWNER). 10. THE OWNER AGREES TO PERFORM ALL LANDSCAPE MAINTENANCE (INCLUDING WATERING) THROUGHOUT THE ONE YEAR GUARANTEE PERIOD UNLESS
- ANY PLANT MATERIAL WHICH DIES, TURNS BROWN OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE
- SITE & REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE, & MEETING ALL PLANT LIST SPECIFICATIONS. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" ARE ONLY GUIDELINE SPECIFICATIONS & SHALL BE CONSIDERED MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.

HAMILTON COUNTY DEPARTMENT OF EDUCATION BUS BARN



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C501	SEDIMENT AND EROSION CONTROL PHASE I
C502	SEDIMENT AND EROSION CONTROL PHASE II
C503	SEDIMENT AND EROSION CONTROL PHASE III
C600	LANDSCAPE PLAN
C700	SITE DETAILS
C800	DRAINAGE DETAILS
ES101	ELECTRICAL SITE PLAN
ES102	ELECTRICAL SITE DETAILS
ES201	ELECTRICAL SITE LIGHTING PLAN
ES202	ELECTRICAL SITE LIGHTING PHOTOMETRICS



HCDE Bus Barr

9517 W Ridge Trail Road

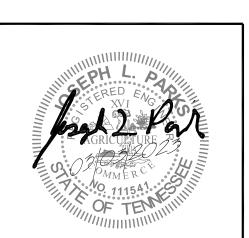
HAMILTON CO DEPT. EDUCATION

3074 Hickory Valley Rd Chattanooga, TN 37421 423-498-7020



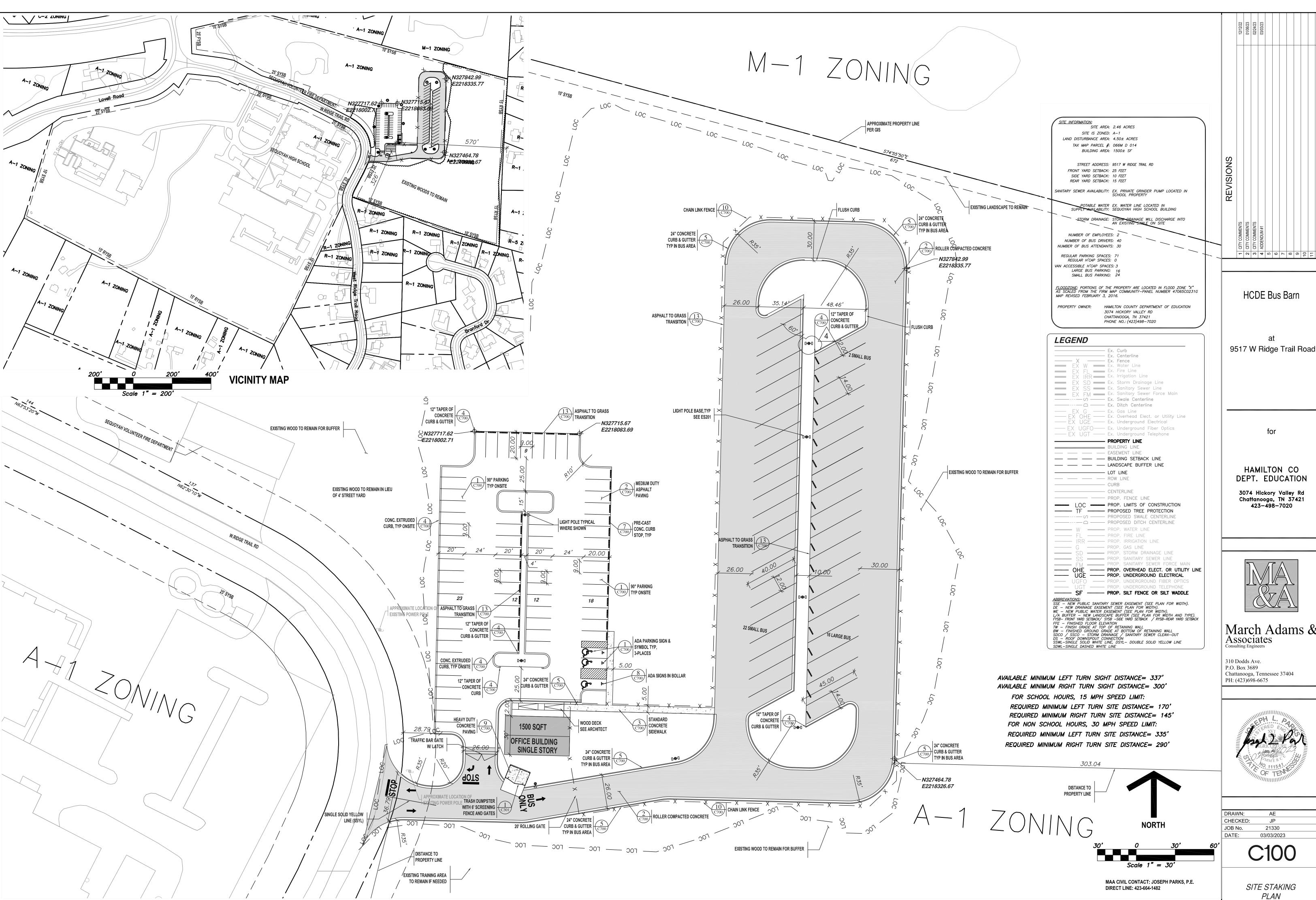
310 Dodds Ave. P.O. Box 3689 Chattanooga, Tennessee 37404

PH: (423)698-6675



COVER SHEET

MAA CIVIL CONTACT: JOSEPH PARKS, P.E. **DIRECT LINE: 423-664-1482**



HCDE Bus Barn

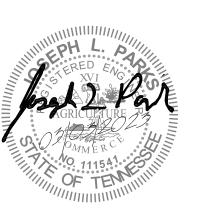
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March Adams &

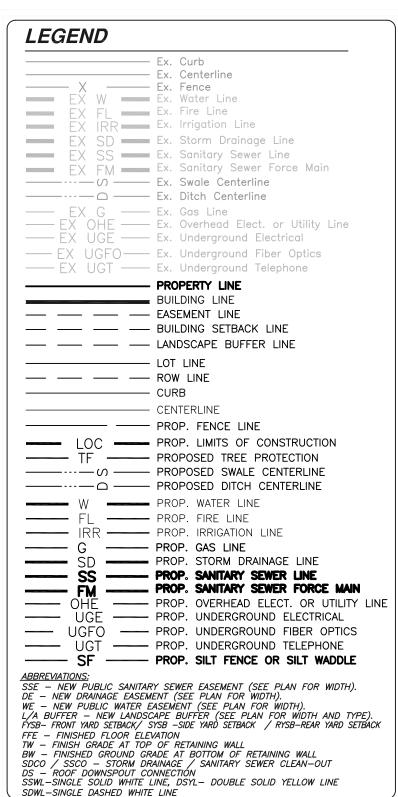
Chattanooga, Tennessee 37404



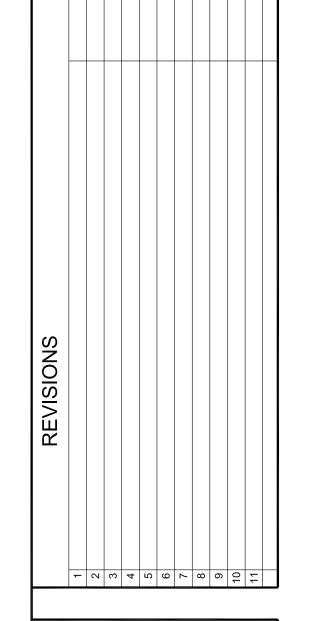
21330 03/03/2023

> SITE STAKING PLAN





SPECIAL NOTE: EXISTING UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE. EXISTING UNDERGROUND UTILITIES (NOT SHOWN ON THESE DRAWINGS) MAY BE PRESENT IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING EXCAVATION. SHOULD THE CONTRACTOR UNCOVER UNKNOWN UTILITIES, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE SOURCE AND DISCHARGE OF THE UNKNOWN UTILITIES AND CONTACT THE OWNER AND ENGINEER PRIOR TO CONTINUING CONSTRUCTION.



HCDE Bus Barn

9517 W Ridge Trail Road

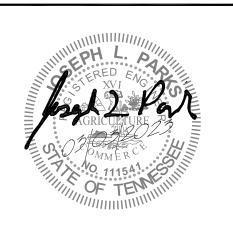
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Consulting Engineers

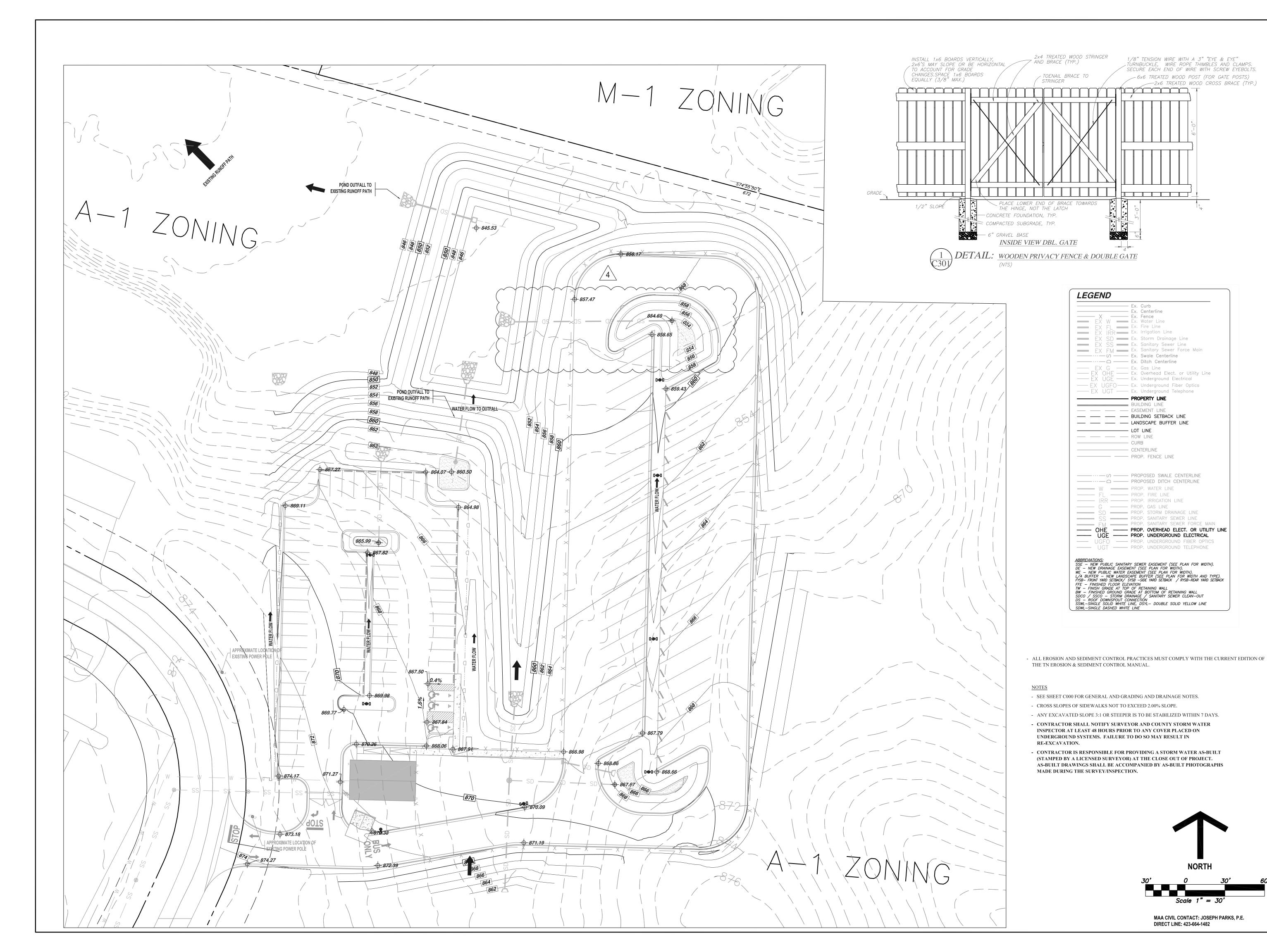
310 Dodds Ave. P.O. Box 3689 Chattanooga, Tennessee 37404 PH: (423)698-6675

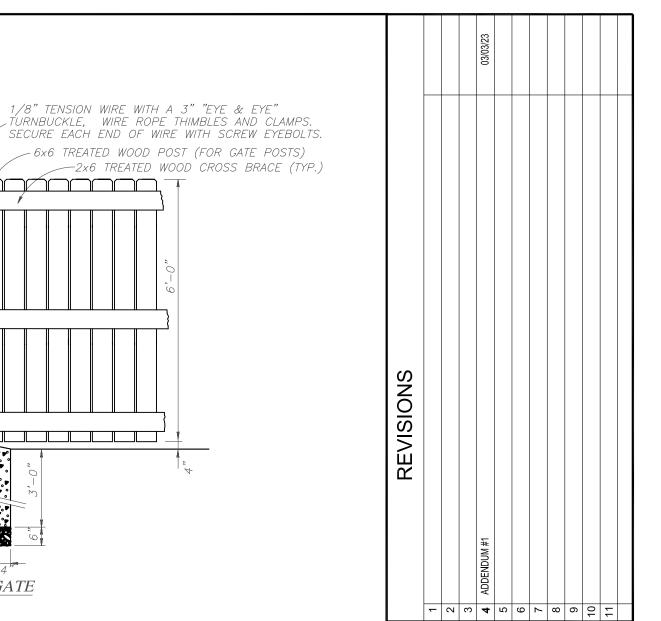


CHECKED: JOB No. 21330 DATE: 03/03/2023

C200

EXISTING CONDITIONS AND DEMOLITION PLAN





9517 W Ridge Trail Road

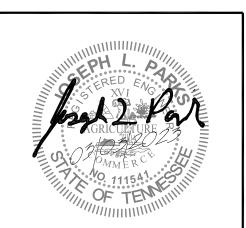
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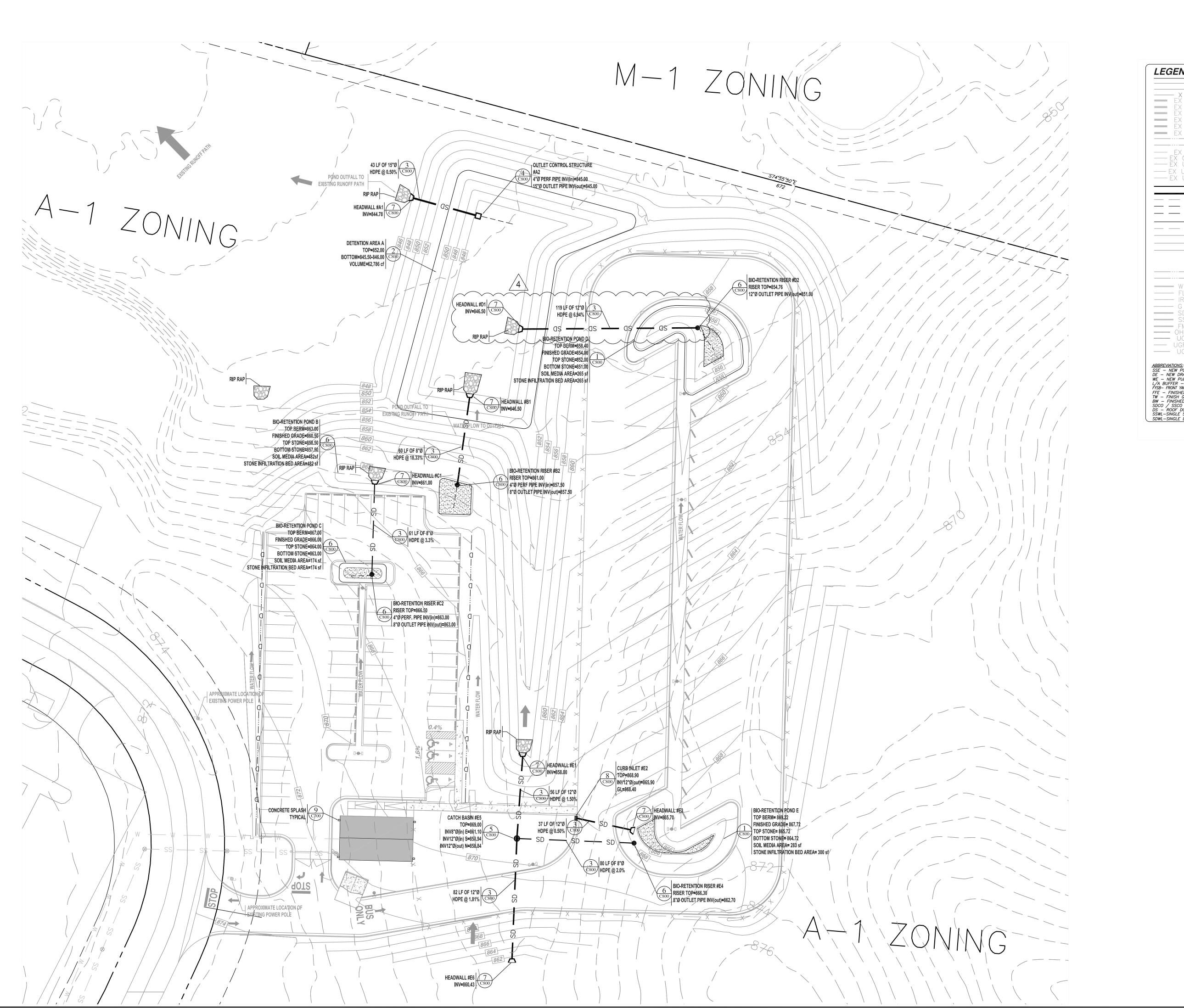


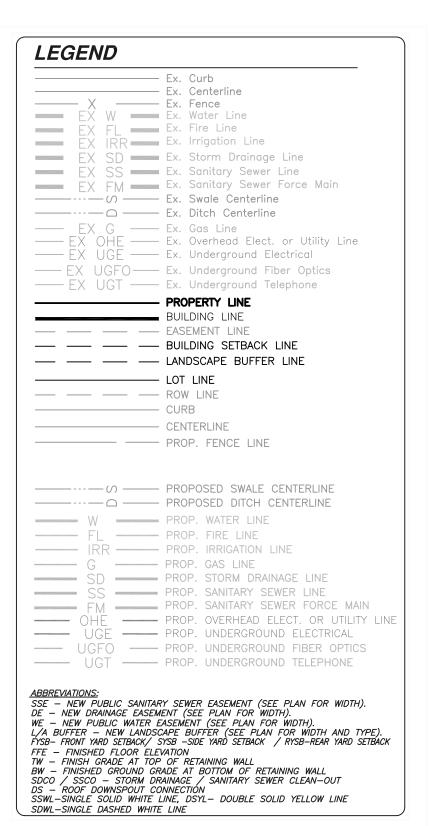
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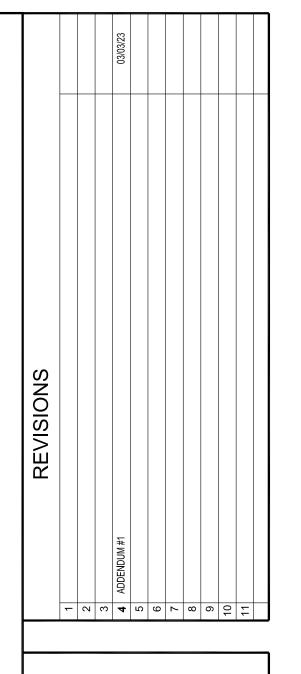
MAA CIVIL CONTACT: JOSEPH PARKS, P.E. DIRECT LINE: 423-664-1482

21330 03/03/2023

> SITE GRADING PLAN







at

9517 W Ridge Trail Road

for

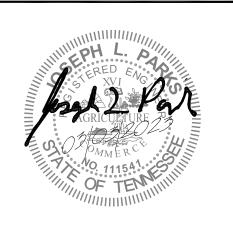
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DRAWN: AE
CHECKED: JP
JOB No. 21330
DATE: 03/03/2023

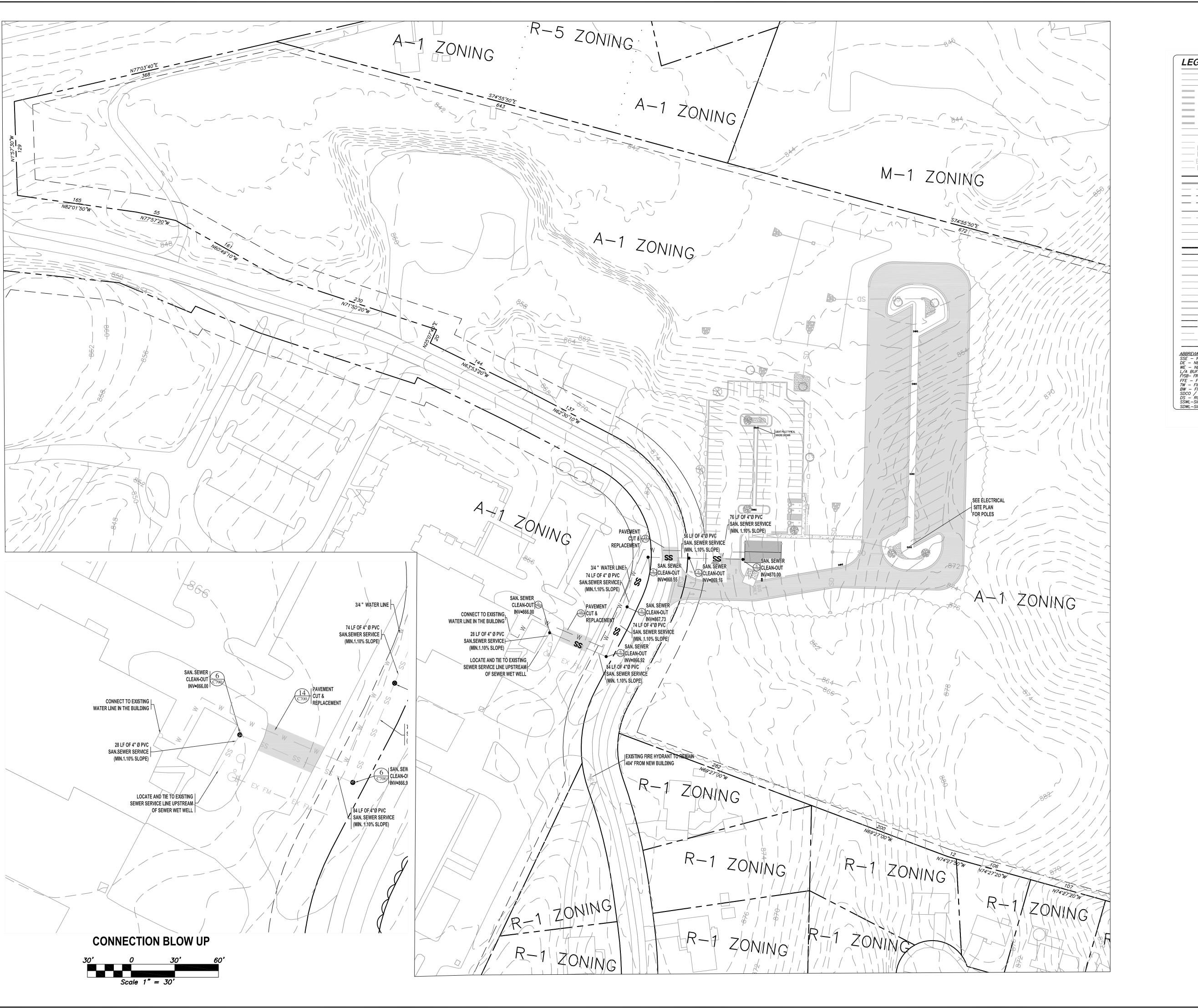
C302

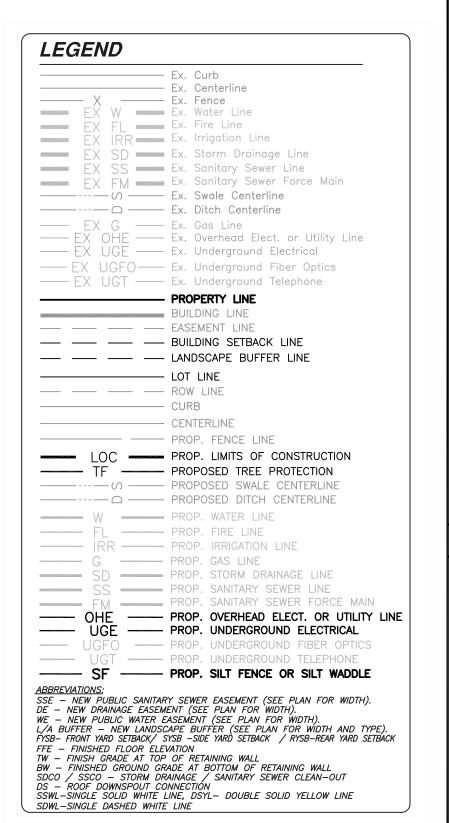
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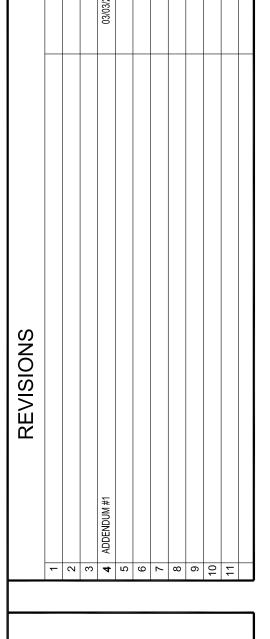
Scale 1" = 30'

SEPH PARKS, P.E.

SITE DRAINAGE
PLAN







at 9517 W Ridge Trail Road

for

HAMILTON CO DEPT. EDUCATION

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NORTH

60' 0 60'

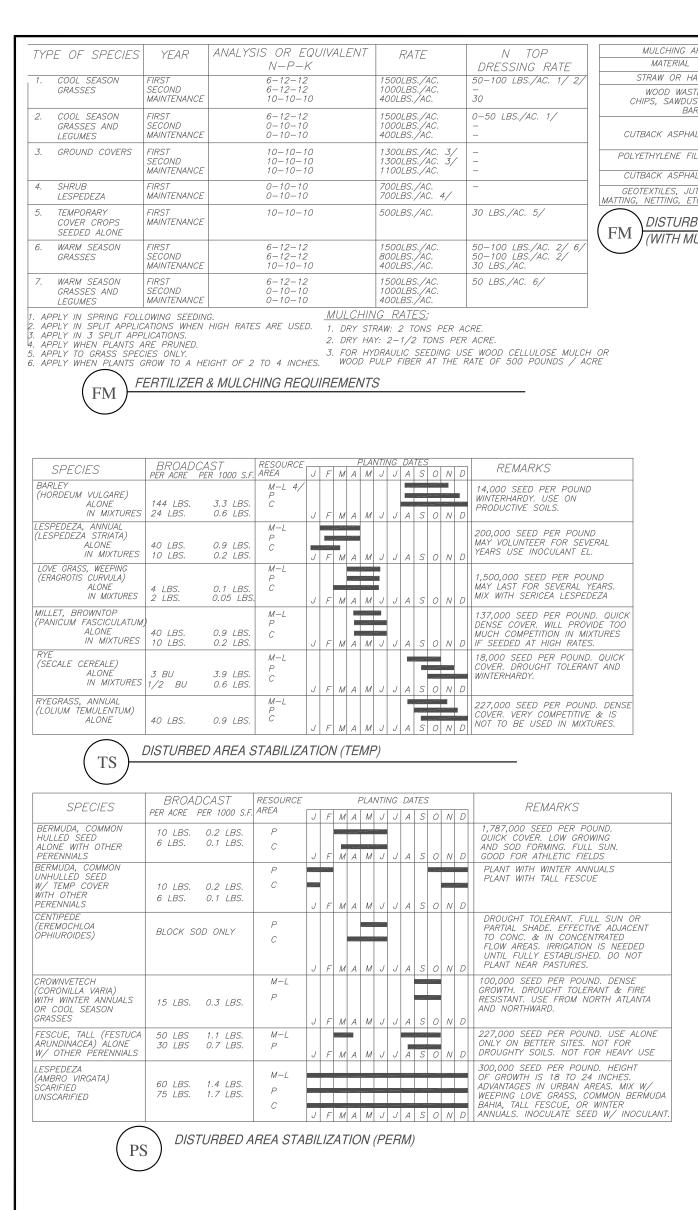
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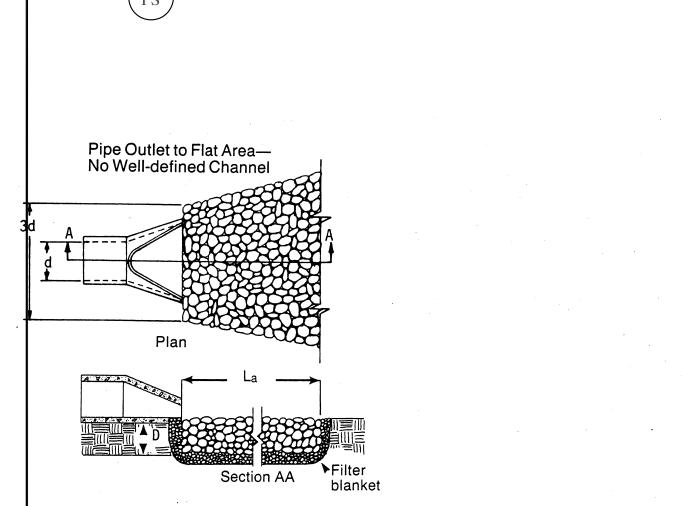
MAA CIVIL CONTACT: JOSEPH PARKS, P.E.
DIRECT LINE: 423-664-1482

DRAWN: AE
CHECKED: JP
JOB No. 21330
DATE: 03/03/2023

C400

SITE UTILITIES PLAN





L_a is the length of the riprap apron.

2. D = 1.5 times the maximum stone

diameter but not less than 6".

3. In a well-defined channel extend the

4. A filter blanket or filter fabric should

be installed between the riprap and

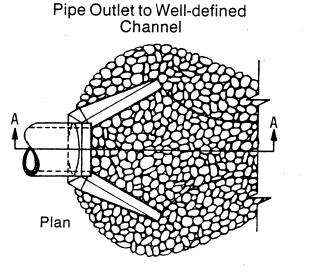
bank, whichever is less.

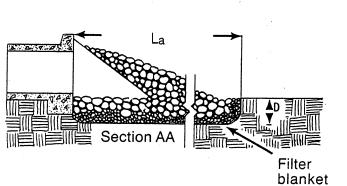
soil foundation.

apron up the channel banks to an

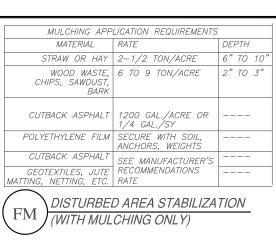
elevation of 6" above the maximum

tailwater depth or to the top of the









CLEAN UP THE ABOVE CONSTRUCTION SEQUENCES ARE ANTICIPATED SERIES OF CONSTRUCTION EVENTS. SHOULD THE SEQUENCES OF EVENTS CHANGE SIGNIFICANTLY, THE CONTRACTOR SHALL UPDATE THE STORM WATER

ANTICIPATED ACTIVITY SCHEDULE

ACTIVITY | M | A | M | J | J | A | S | O | N | D | J | F

LAND DISTURBING ACTIVITY NOTES:

<u>VEGETATION:</u> TOP SOIL WILL BE SALVAGED, STOCK PILED & SPREAD ON AREAS TO BE VEGETATED. TREES OUTSIDE OF THE CLEARING LINE WILL BE PROTECTED FROM DAMAGE BY APPROPRIATE MARKINGS. SUPPLEMENTAL VEGETATION WILL BE ESTABLISHED. EROSION CONTROL PROGRAM; CLEARING WILL BE KEPT TO A
MINIMUM. VEGETATION & MULCH WILL BE APPLIED TO APPLICABLE
AREAS IMMEDIATELY AFTER GRADING IS COMPLETED. LAND DISTURBING WILL BE EMPLOYED TO PREVENT EROSION IN AREAS OF CONCENTRATED WATER FLOWS. EROSION AT THE EXITS OF ALL

1. | INSTALL SEDIMENT CONTROLS =

STORM DRAIN INSTALLATION

4. | SANITARY SEWER INSTALLATION

CLEARING & GRADING

UTILITY INSTALLATION

FINAL LANDSCAPING

POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED.

PAVING

GRASS (TEMP.) (PERM.)

MAINTAIN EROSION CONTROL

SEDIMENT CONTROL PROGRAM: SEDIMENT CONTROL WILL BE ACCOMPLISHED BY THE INSTALLATION OF SEDIMENT BASINS, SEDIMENT FENCES & ADDITIONAL MEASURES AS REQUIRED. DIVERSIONS & DIKES WILL BE INSTALLED TO DIVERT SEDIMENT LADEN RUNOFF INTO THE SEDIMENT BASINS & TO PROTECT CUT AND FILL SLOPES FROM EROSIVE WATER FLOWS. A TEMPORARY CONSTRUCTION EXIT WILL BE EMPLOYED TO PREVENT THE TRANSPORT OF SEDIMENT FROM SITE BY VEHICULAR TRAFFIC.

INSTALLATION OF STORM DRAIN OUTLET PROTECTION DEVICES.

STORM WATER STRUCTURES WILL BE PREVENTED BY THE

STANDARDS & SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS & SPECIFICS OF THE PUBLICATION ENTITLED "THE TENNESSEE EROSION & SEDIMENT CONTROL HANDBOOK; & THE BEST MANAGEMENT PRACTICES MANUAL OF THE STORM WATER MANAGEMENT DEPARTMENT OF PUBLIC WORKS FOR THE CITY

MAINTENANCE PROGRAM: SEDIMENT & EROSION CONTROL
MEASURES WILL BE INSPECTED DAILY. ANY DAMAGES OBSERVED WILL
BE REPAIRED BY THE END OF THAT DAY. CLEAN OUT OF SEDIMENT
CONTROL STRUCTURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH
THE SPECIFICATIONS & SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON THE SITE. SEDIMENT BASINS & BARRIERS WILL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. SEDIMENT BASINS, THE SEDIMENT FENCES, & THE BARRIERS WILL THEN BE REMOVED & THE AREAS OCCUPIED BY THESE STRUCTURES VEGETATED. GUIDELINES FOR THE MAINTENANCE OF ESTABLISHED VEGETATION WILL BE PROVIDED TO THE OWNER WHEN ALL DISTURBED AREAS ARE STABILIZED. CONCRETE TRUCKS: THE CONTRACTOR SHALL PROVIDE A BERMED AREA FOR CONCRETE TRUCKS TO "WASH-DOWN". CONTRACTOR TO PERIODICALLY REMOVE CONCRETE WASTE & BYPRODUCTS AND DISPOSE OF PROPERLY.

SEDIMENT & EROSION CONTROL NOTES: CONTRACTOR IS TO ADHERE TO THE TENNESSEE EROSION & SEDIMENT CONTROL HANDBOOK; & THE BEST MANAGEMENT PRACTICES MANUAL OF THE STORM WATER MANAGEMENT DEPARTMENT OF PUBLIC WORKS FOR THE CITY OF SODDY-DAISY.

2 CONTRACTOR SHALL BE RESPONSIBLE DURING CONSTRUCTION FOR THE CONTINUOUS MAINTENANCE OF SEDIMENT & EROSION CONTROL MEASURES AS CALLED FOR ON THE DRAWINGS & PER THE TN EROSION & SEDIMENT CONTROL HANDBOOK & THE REQUIREMENTS OF THE CITY OF SODDY-DAISY.

3 SEDIMENT & EROSION CONTROL FACILITIES, & STORM DRAINAGE FACILITIES SHALL BE CONSTRUCTED PRIOR TO ANY OTHER CONSTRUCITON.

4 SEDIMENT & EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE & UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED. 5 ALL GRADED AREAS SHALL BE STABILIZED WITH A TEMPORARY FAST GROWING COVER AND/OR MULCH.

NO LATER THAN 2 WEEKS AFTER EARTH DISTURBING ACTIVITY ENDS IN THOSE AREAS WHERE GRADING ACTIVITY HAS CEASED & FINE GRADING WILL NOT TAKE PLACE FOR AT LEAST 15 DAYS.

6 EXISTING DRAINAGE STRUCTURES TO BE INSPECTED, REPAIRED AS NEEDED & CLEANED OUT TO REMOVE ALL SILT & DEBRIS.

7 SEEDING & FERTILIZING RATES FOR TEMPORARY AND PERMANENT STANDS OF GRASS SHALL BE PER CHARTS ON DETAIL SHEET.

8 ADDITIONAL EROSION CONTROL DEVICES SHALL BE USED AS REQUIRED. 9 SILT FENCE AND/OR SILT LOGS SHALL BE CLEANED OR REPLACED WHEN SILT BUILDS UP TO 50%

CAPACITY OF SILT FENCE AND/OR SILT LOGS. 10 IF ANY FINES OR PENALTIES ARE LEVIED AGAINST THE PROPERTY OR PROPERTY OWNER BECAUSE OF LACK OF EROSION AND/OR SEDIMENT CONTROL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF SUCH FINES OR PENALTIES OR THE COST OF ANY FINES OR PENALTIES SHALL BE

DEDUCTED FROM THE CONTRACT AMOUNT. 11 EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION &

SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. 12 CONSTRUCTION EXIT SHALL BE MAINTAINED ON A CONTINUOUS BASIS.

13 THE CONTRACTOR SHALL USE WHATEVER MEASURES ARE REQUIRED TO PREVENT SILT & CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. THIS CAN BE ACCOMPLISHED BY SMALL TEMPORARY SEDIMENT POINTS, SILT FENCES OF STEEL WIRE & BURLAP OR BARRIERS OF CEDAR TREES AND/OR BALES OF STRAW. CONTRACTOR SHALL COMPLY WITH ALL LOCAL EROSION, CONSERVATION, & SILÍATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CÓNTROL STRUCTURES SUFFICIENT TO PREVENT EROSION.

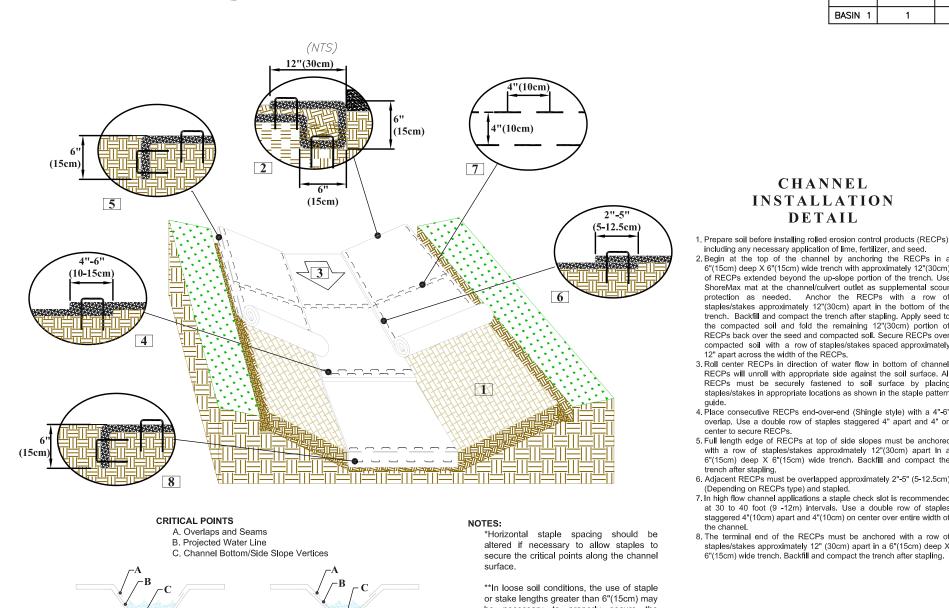
14 CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING, BY APPLYING CALCIUM CHLORIDE, OR BY OTHER METHODS AS DIRECTED BY ENGINEER AND/OR OWNER'S REPRESENTATIVE, AT NO ADDITIONAL COST TO OWNER.

15 CONTRACTOR TO COMPLY WITH ALL STATE & LOCAL SEDIMENT CONTROL & AIR POLLUTION ORDINANCES OR RULES. 16 ALL DISTURBED AREA TO BE GRASSED. 17 TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO BEGINNING OF GRADING.

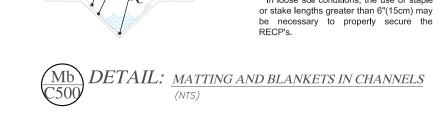
CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION CONTROL DEVICES & SHALL REMOVE SILT FROM BERM DITCHES, SILT DAMS, & SILT FENCES AS NEEDED. 18 ALL SIDE DITCHES TO BE CLEANED AND/OR REGRADED TO PROVIDE PROPER DRAINAGE. 19 ALL AREAS NOT OTHERWISE SURFACED ARE TO BE SEEDED, LANDSCAPED, MULCHED, WATERED &

MAINTAINED UNTIL AN ADEQUATE STAND OF GRASS IS OBTAINED. 20 SEEDING & FERTILIZING RATES FOR TEMPORARY & PERMANENT STANDS OF GRASS SHALL BE PER THE CITY OF SODDY-DAISY BEST MANAGEMENT PRACTICES MANUAL OF THE STORM WATER DEPARTMENT OF

PUBLIC WORKS FOR THE CITY OF SODDY-DAISY. 21 NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFER AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST



HAS BEEN LOST DUE TO SEDIMENT ACCUMULATION.



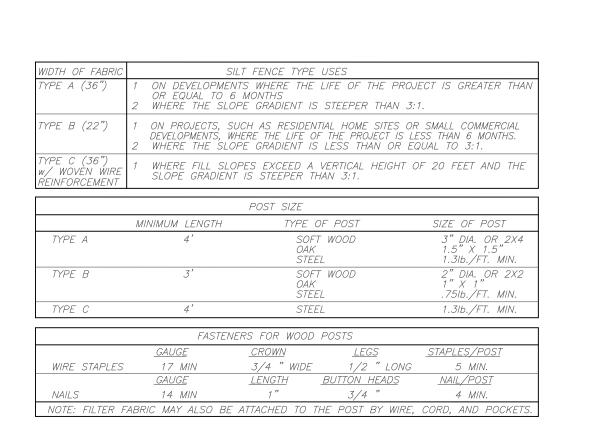
FILTER FABRIC

NOTE: REMOVE SEDIMENT WHEN ONE-HALF THE SEDIMENT STORAGE CAPACITY

(NTS)

DETAIL: EXCAVATED INLET SEDIMENT TRAP

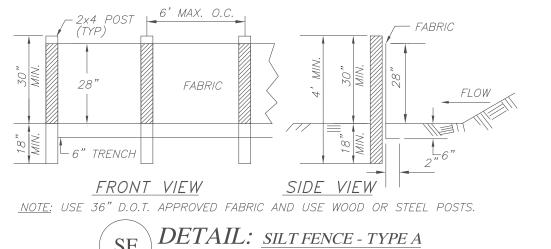
-2:1 SIDE SLOPES (MAX.)

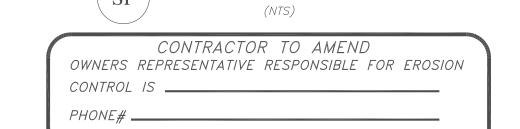


AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND DISTURBANCE ACTIVITIES.

TOPSOIL STOCKPILE AREA SHALL BE COVERED WITH BLACK PLASTIC.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES





REPRESENTATIVE MUST BE TNEPSC LEVEL I CERTIFIED

POROUS BERM, SUCH AS RIPRAP CHECK

DESIGN HIGH WATER (25-YR Qp)

WET STORAGE MIN. 67 cy/acre

FOREBAY) — MÌN. 67 cy/acre

2-YR OR 5-YR Qp

PERMANENT POOL LEVEL

BASIN SCHEDULE

|FEET, AMSL|FEET, AMSL

SKIMMER DEWATERING

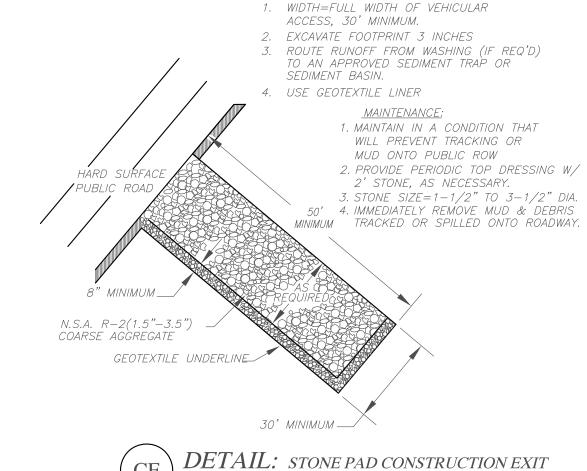
DEVICE SPECIFICATIONS FACILITY SKIMMER ARM ORIFICE NO. DIAMETER DIAMETER

BASIN 1 1 4.0" 4.0"

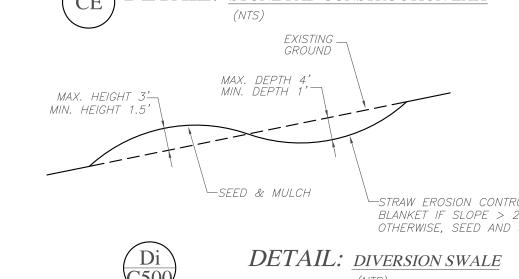
BARREL PERMANENT PRINCIPAL EMERGENCY EMERGENCY EMERGENCY TOP OF PIPE POOL SPILLWAY SPILLWAY SPILLWAY SPILLWAY SPILLWAY EMBANKMENT BASIN ELEVATION DIA. ELEVATION ELEVATION WIDTH SIDESLOPE ELEVATION FEET, AMSL

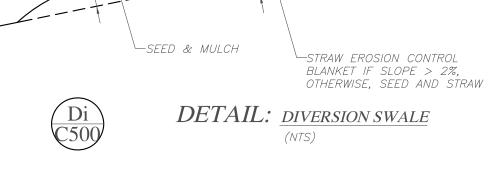
POOL SPILLWAY SPILLWAY SPILLWAY SPILLWAY EMBANKMENT BASIN ELEVATION ELEVATION WIDTH SIDESLOPE ELEVATION FEET, AMSL

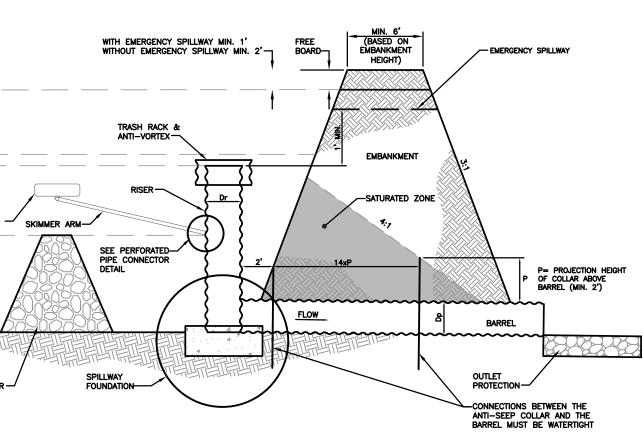
847.00 850.0 851.0 6' 3H:1V 852.0 845.50

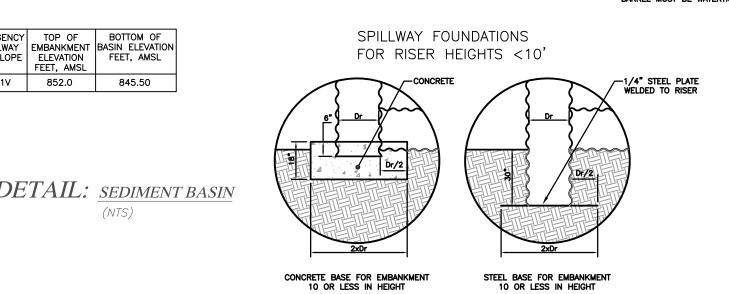


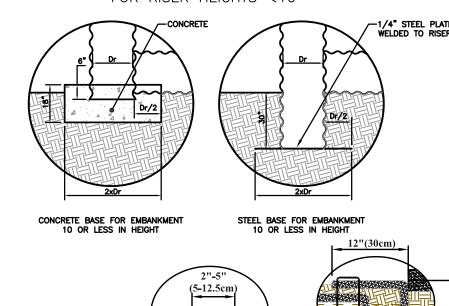
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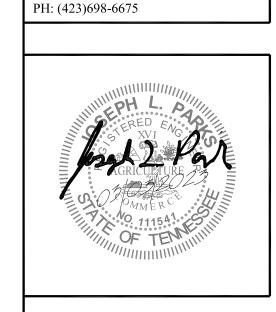












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HCDE Bus Barn

9517 W Ridge Trail Road

HAMILTON CO

DEPT. EDUCATION

3074 Hickory Valley Rd

Chattanooga, TN 37421

423-498-7020

March Adams &

Associates Consulting Engineers

310 Dodds Ave.

P.O. Box 3689

Chattanooga, Tennessee 37404

DRAWN:	۸۳
CHECKED:	AE JP
JOB No.	21330
DATE:	03/03/2023
	2500

SEDIMENT AND EROSION MAA CIVIL CONTACT: JOSEPH PARKS, P.E. CONTROL NOTES

DIRECT LINE: 423-664-1482

CHANNEL INSTALLATION DETAIL

Prepare soil before installing rolled erosion control products (RECPs),

2. Begin at the top of the channel by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12"(30cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the channel/culvert outlet as supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes approximately 12"(30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soll. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" apart across the width of the RECPs. 3. Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple patterr 4. Place consecutive RECPs end-over-end (Shingle style) with a 4"-6" overlap. Use a double row of staples staggered 4" apart and 4" on 5. Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes approximately 12"(30cm) apart in a 3"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling. Adjacent RECPs must be overlapped approximately 2"-5" (5-12.5cm) (Depending on RECPs type) and stapled. In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9 -12m) intervals. Use a double row of staples aggered 4"(10cm) apart and 4"(10cm) on center over entire width of 8. The terminal end of the RECPs must be anchored with a row of

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed. 2. Begin at the top of the slope by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12" (30cm) of RECPs extended beyond the up-slope portion of the trench. Anchor the RECPs with a row of staples/stakes pproximately 12" (30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 2"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12"(30cm) apart across the width of the RECPs.
3. Roll the RECPs (A) down or (B) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide. 4. The edges of parallel RECPs must be stapled with approximately 2" - 5" (5-12.5cm) overlap depending on the RECPs type. 5. Consecutive RECPs spliced down the slope must be end over end (Shingle style) with an approximate 3"(7.5cm) overlap. Staple through overlapped area. approximately 12"(30cm) apart across entire RECPs width. SLOPE INSTALLATION DETAIL In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to 1 properly secure the RECP's. Drawing Not To Scale Mb DETAIL: MATTING AND BLANKETS ON SLOPES

AMERICAN

www.tensarnagreen.co

PH: 800-772-204

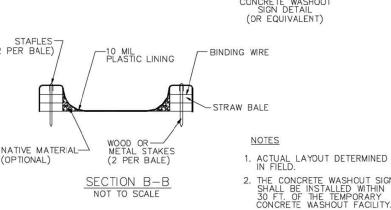
iensar.

5401 St. Wendel - Cynthiana Rd.

Poseyville, IN 47633

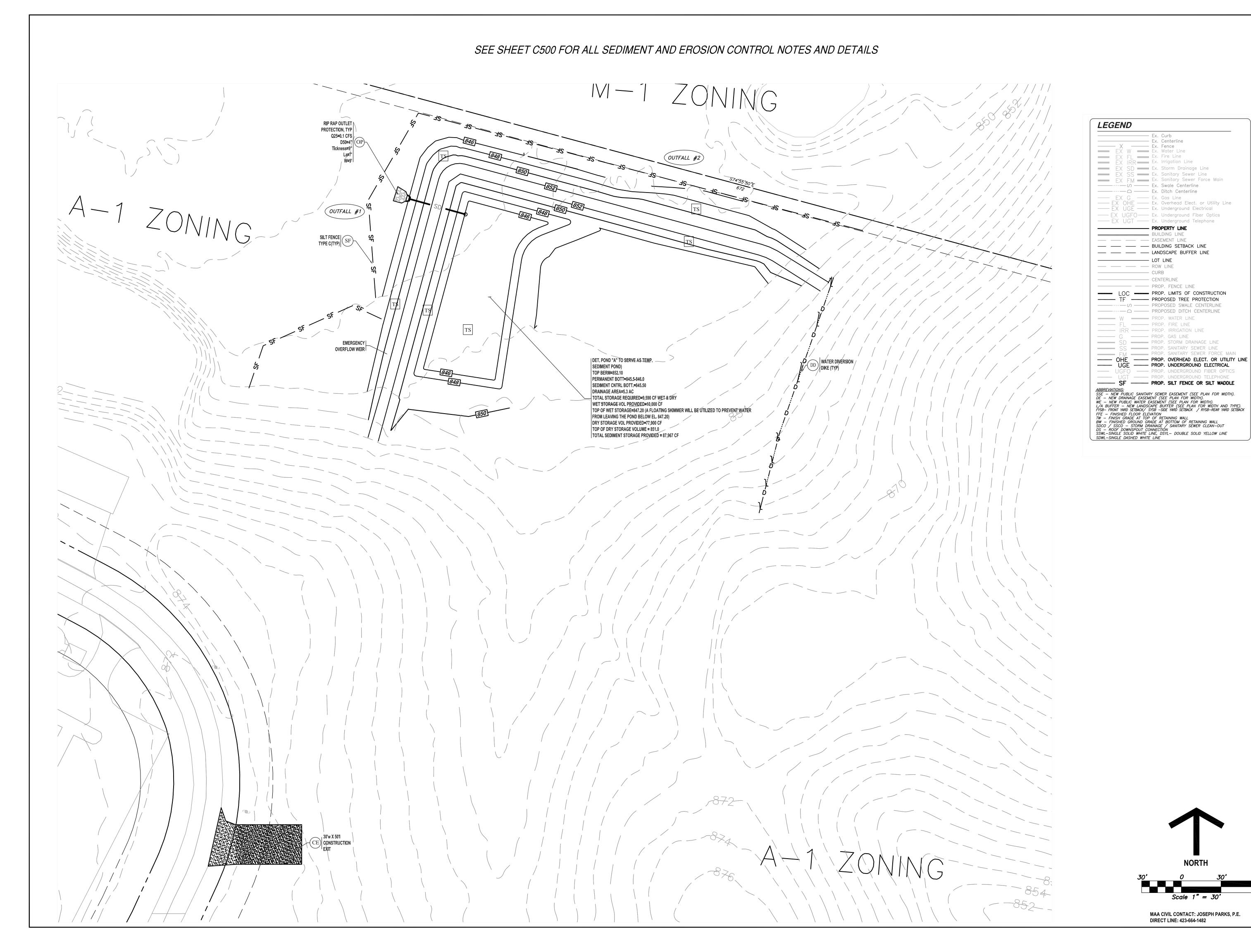
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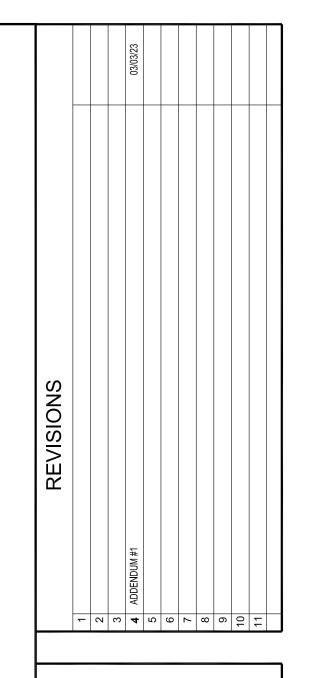
STAPLE DETAIL | • / • | • • | • • | • • | 48" X 24" -PAINTED WHITE PLAN NOT TO SCALE TYPE "ABOVE GRADE WITH STRAW BALES -0.5" LAC SCREWS



Drawing Not To Scale







at

9517 W Ridge Trail Road

for

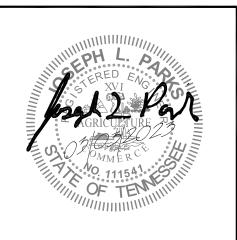
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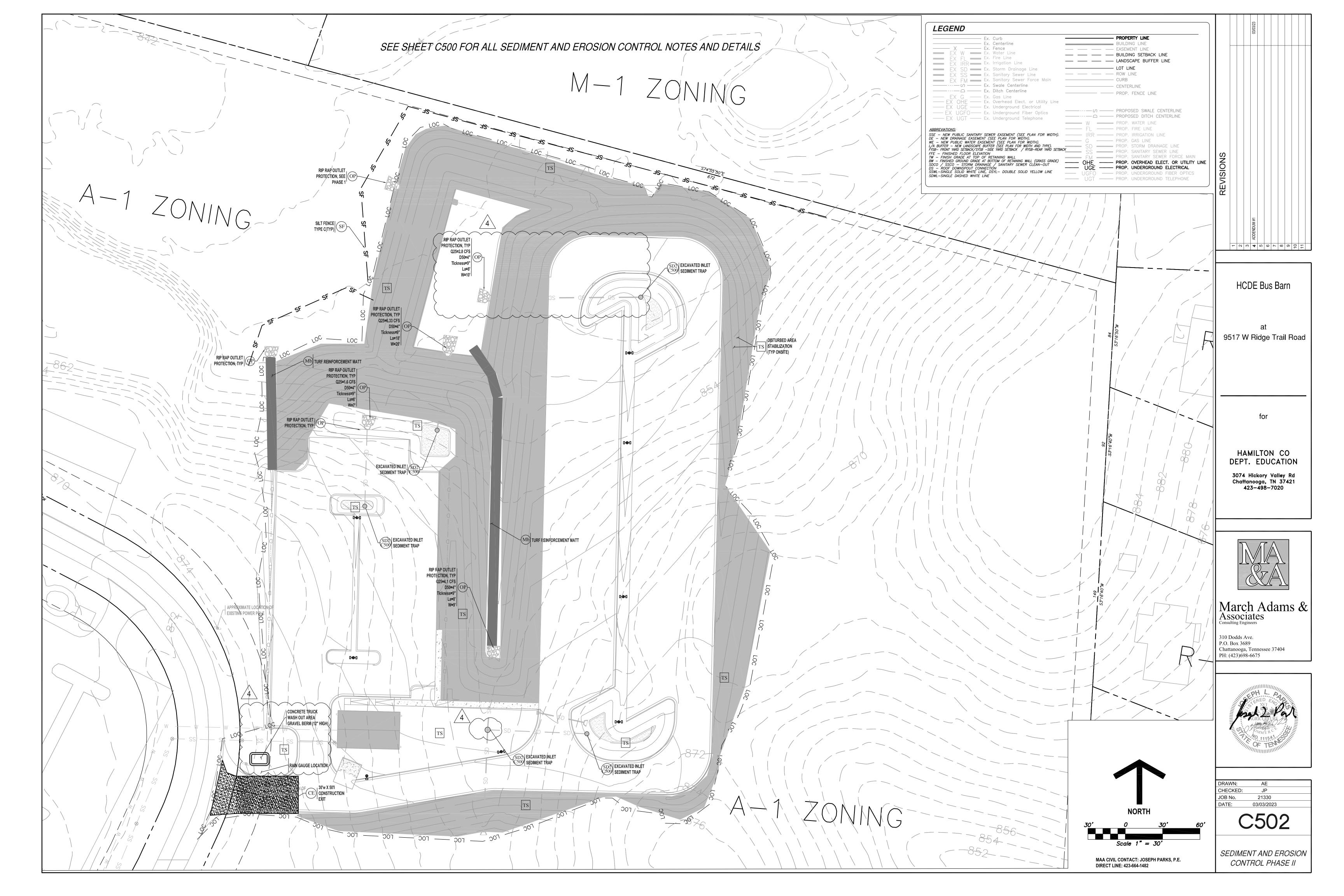


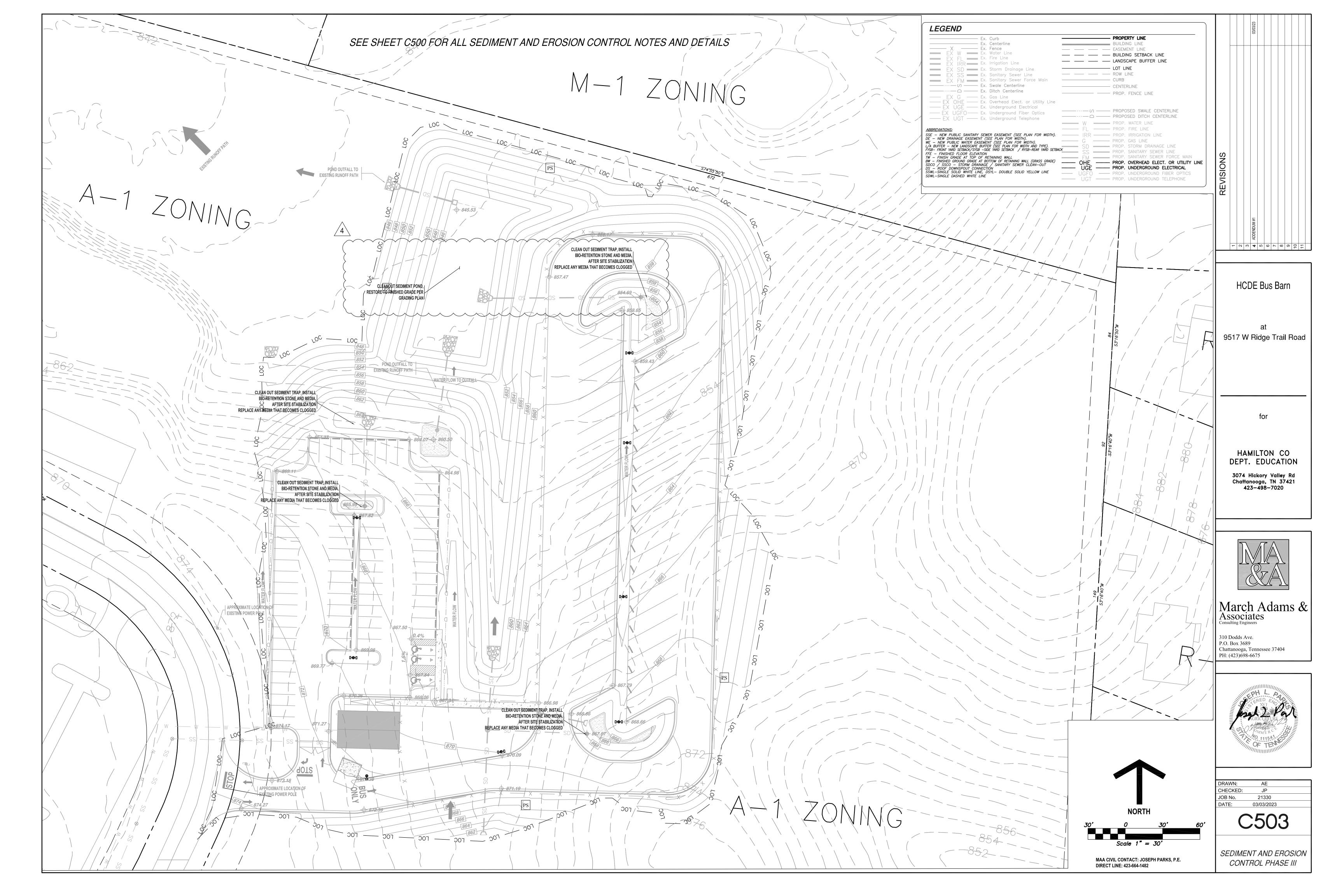
0	<i>30'</i>	<i>60'</i>	(C50	
NORT	Ή		4		4
		D	ATE:	03/03/2023	
		JC	OB No.	21330	
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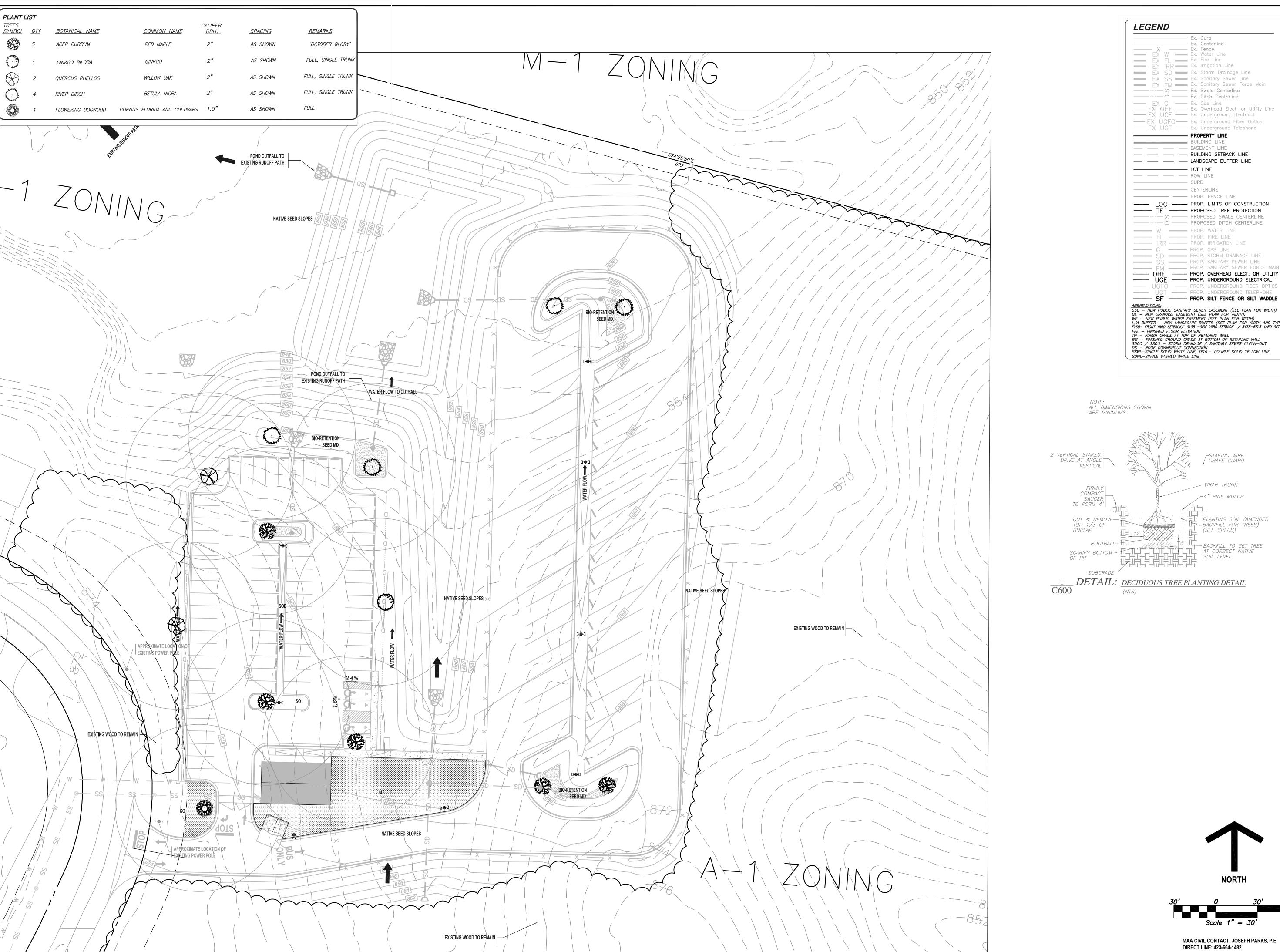
MAA CIVIL CONTACT: JOSEPH PARKS, P.E.
DIRECT LINE: 423-664-1482

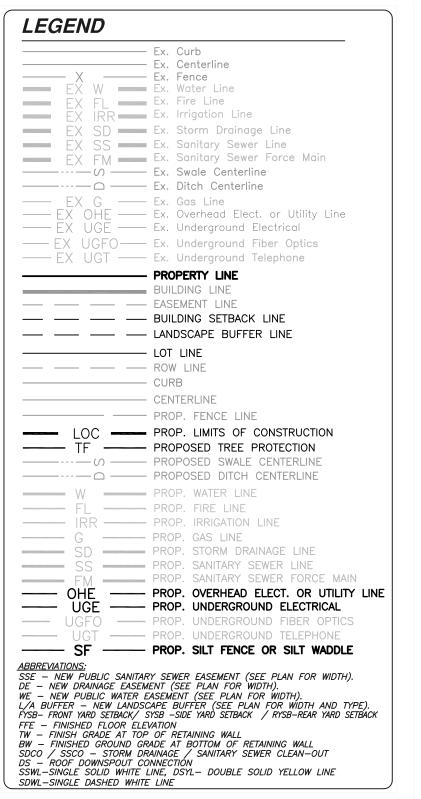
SEDIMENT AND EROSION

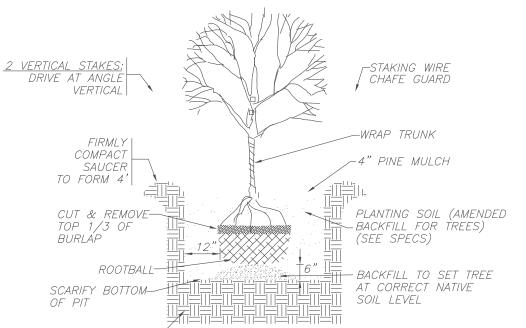
CONTROL PHASE I

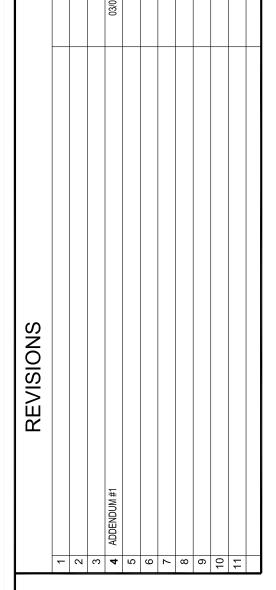












HCDE Bus Barn

9517 W Ridge Trail Road

for

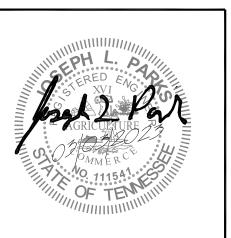
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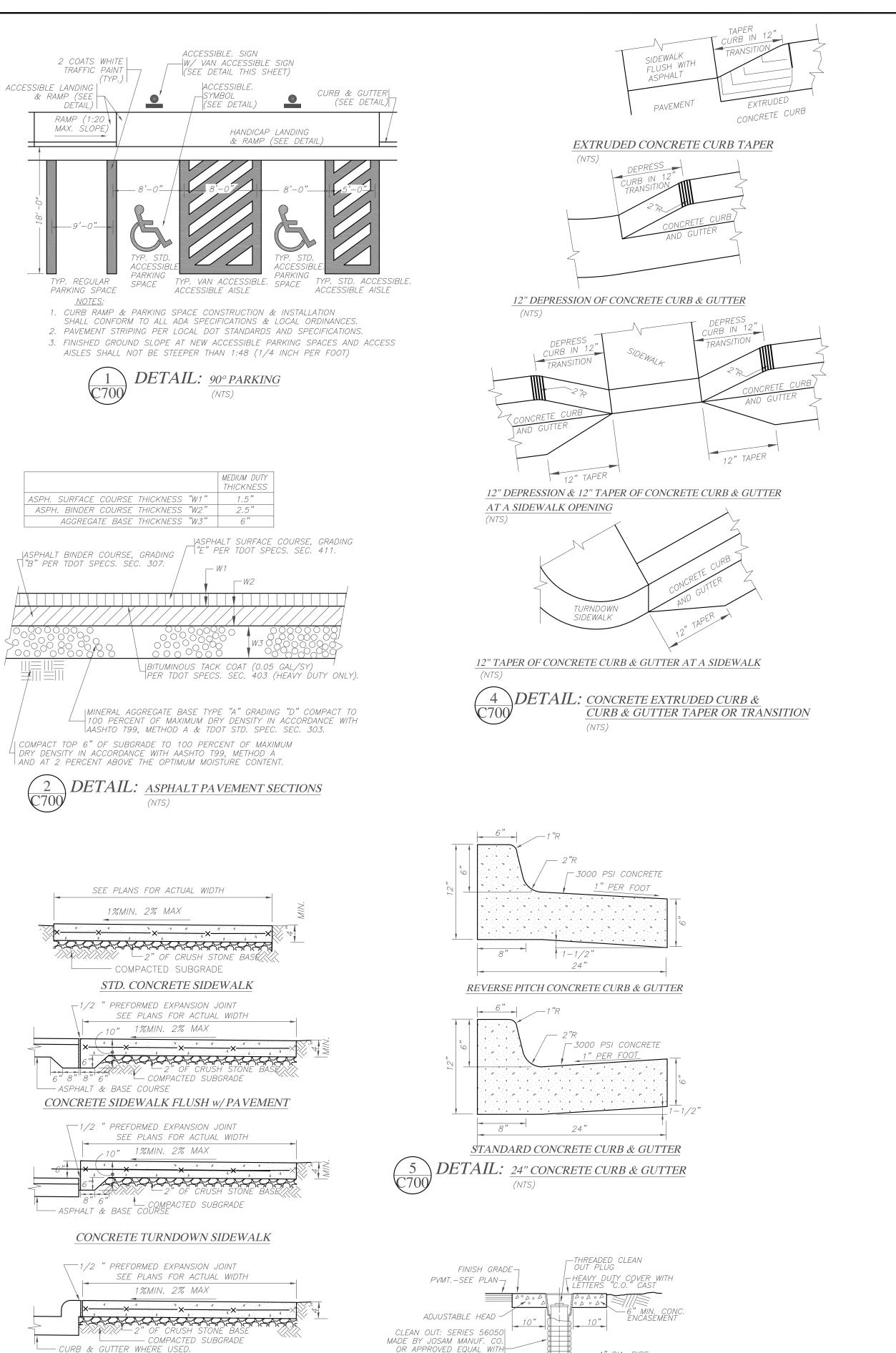
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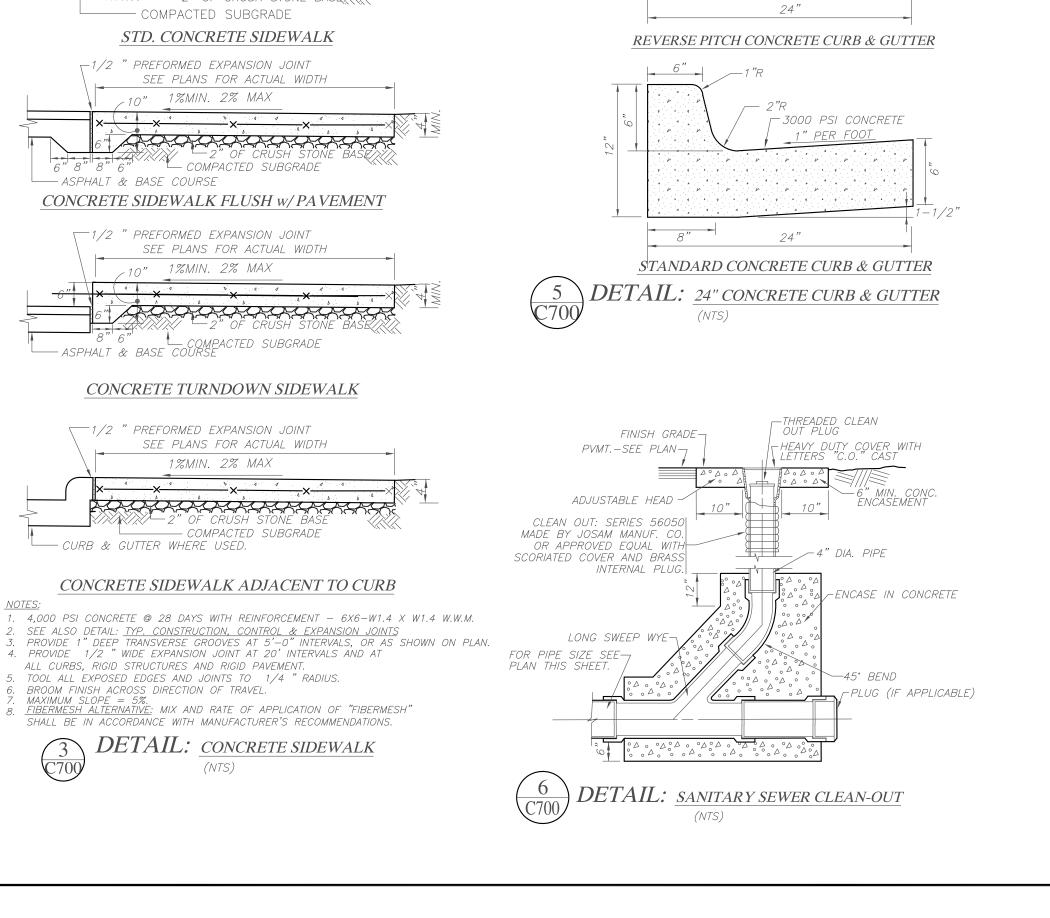


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CHECKED:	JP	
JOB No.	21330	
DATE:	03/03/2023	

C600

SITE LANDSCAPE PLAN





CONCRETE SIDEWALK ADJACENT TO CURB

ALL CURBS, RIGID STRUCTURES AND RIGID PAVEMENT.

6. BROOM FINISH ACROSS DIRECTION OF TRAVEL.

5. TOOL ALL EXPOSED EDGES AND JOINTS TO 1/4 " RADIUS.

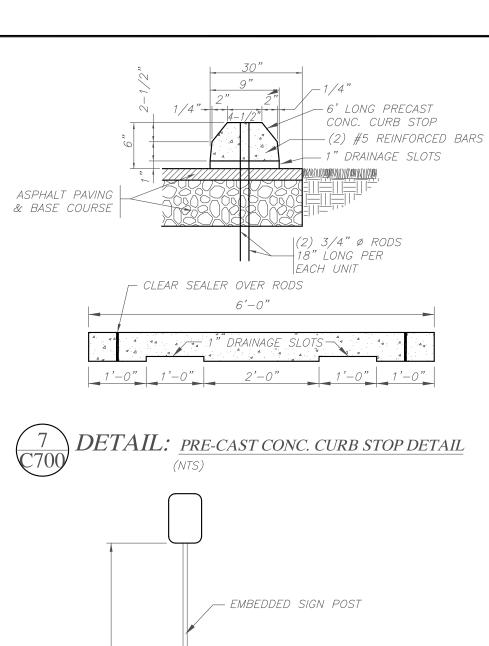
7. MAXIMUM SLOPE = 5%. 8. <u>FIBERMESH ALTERNATIVE</u>: MIX AND RATE OF APPLICATION OF "FIBERMESH"

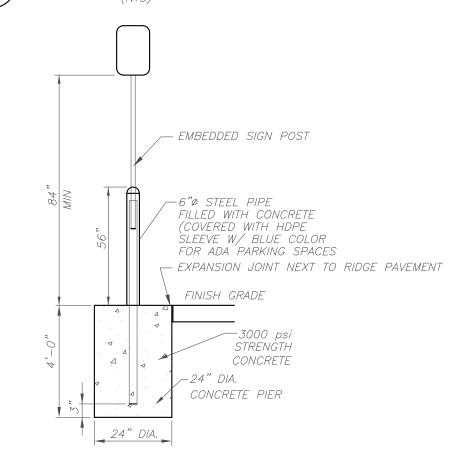
SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

\ DETAIL: CONCRETE SIDEWALK

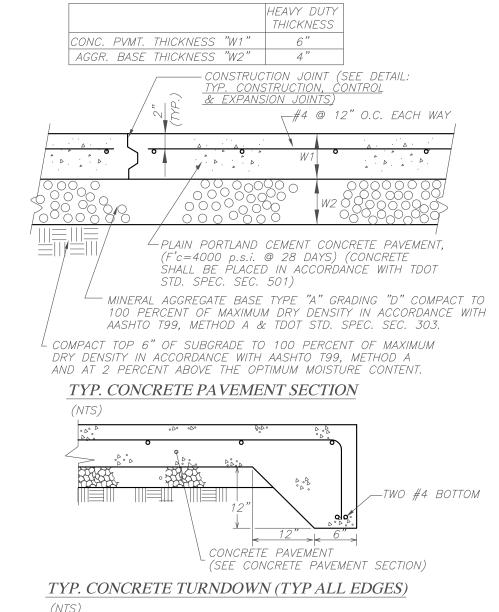
(NTS)

1. 4,000 PSI CONCRETE @ 28 DAYS WITH REINFORCEMENT - 6X6-W1.4 X W1.4 W.W.M.



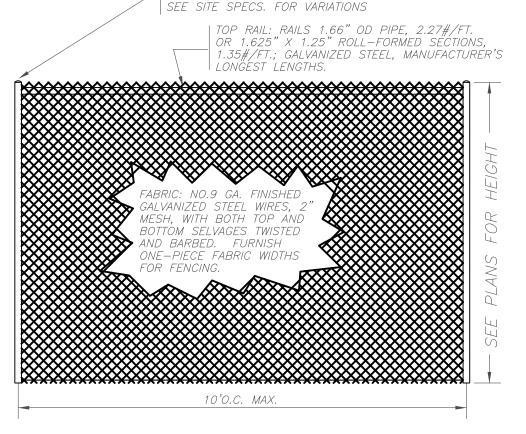




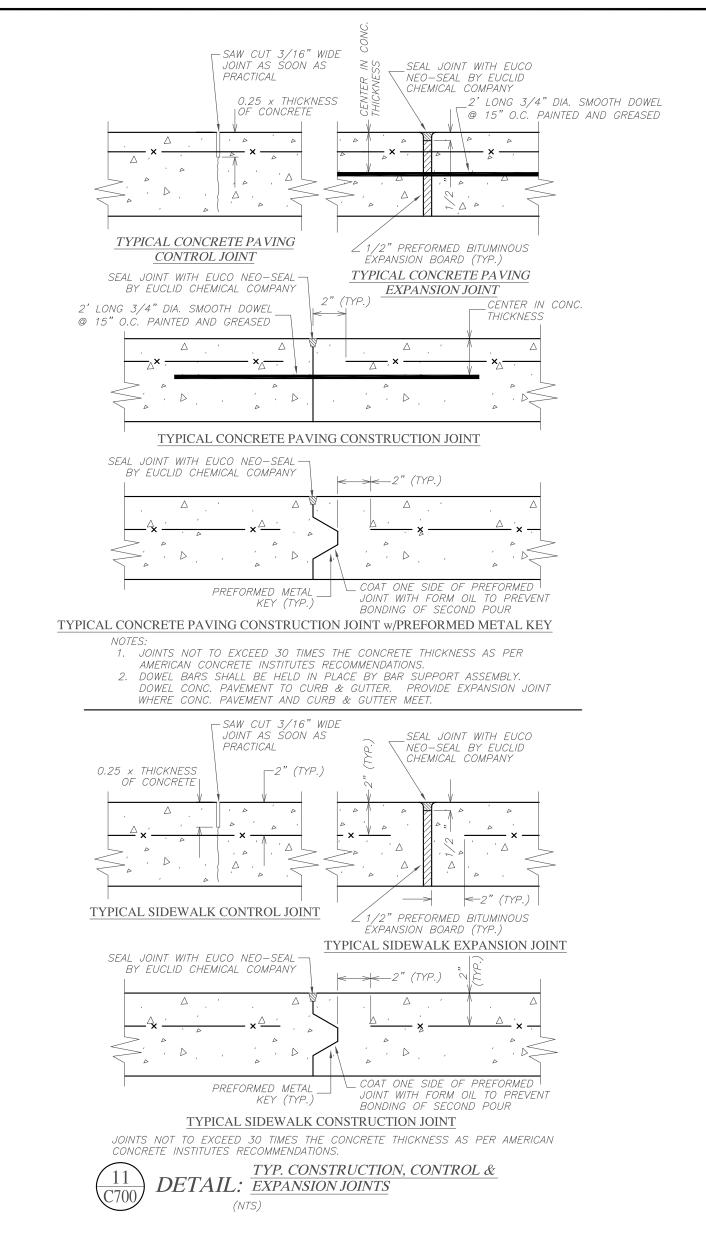


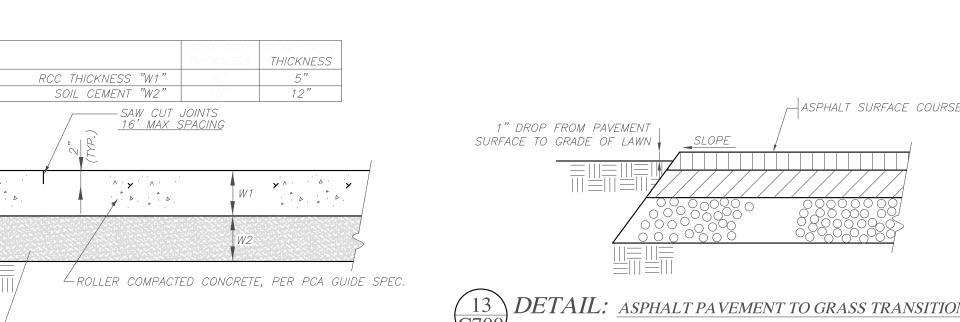


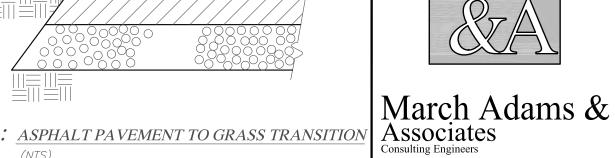
MIN. SIZE VARIES WITH HEIGHT.





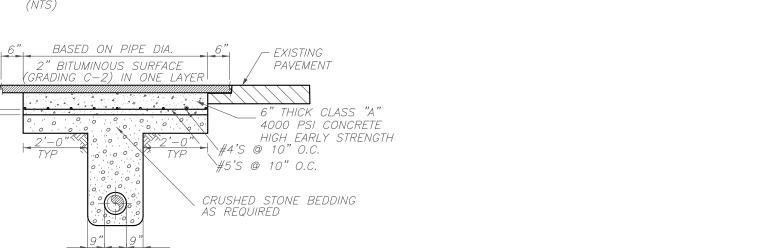






DETAIL: ASPHALT PAVEMENT TO GRASS TRANSITION

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1. ALL LATERAL STREET CUTS MUST BE COVERED WITH STEEL PLATES OF SUFFICIENT THICKNESS TO SPAN THE CUT WITHOUT NOTICEABLE DEFLECTION. PLATES TO REMAIN IN PLACE UNTIL THE CONCRETE BASE HAS GAINED SUFFICIENT STRENGTH TO WITHSTAND TRAFFIC LOADS (24 HR. MINIMUM).

12" SOIL CEMENT @ ~6% CEMENT

CONTRACTOR TO VERIFY CEMENT CONTENT

DRY DENSITY IN ACCORDANCE WITH AASHTO T99, METHOD A AND AT 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.

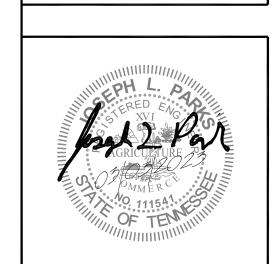
COMPACT TOP 6" OF SUBGRADE TO 100 PERCENT OF MAXIMUM

DETAIL: ROLLER COMPACTED CONCRETE (ALTERNATIVE)

WITH GEOTECHNICAL AGENCY BASED ON ONSITE TESTING OF NATIVE MATERIAL

2. ON LONGITUDINAL CUTS 150 FT. IN LENGTH, THE CONCRETE IN THE TRENCH WILL BE BROUGHT FLUSH WITH THE EXISTING PAVEMENT AND THE ENTIRE WIDTH OF ROADWAY RESURFACED WITH A MINIMUM OF 1" OF TYPE "F" ASPHALT TOPPING OR 1 1/2 " OF TYPE "E" ASPHALT TOPPING OR SURFACE COURSE. 3. THE CONTRACTOR SHALL REPLACE ALL OTHER DAMAGED PAVEMENT OUTSIDE OF

LIMITS SHOWN AT HIS OWN EXPENSE DETAIL: PAVEMENT CUT & REPLACEMENT



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HCDE Bus Barn

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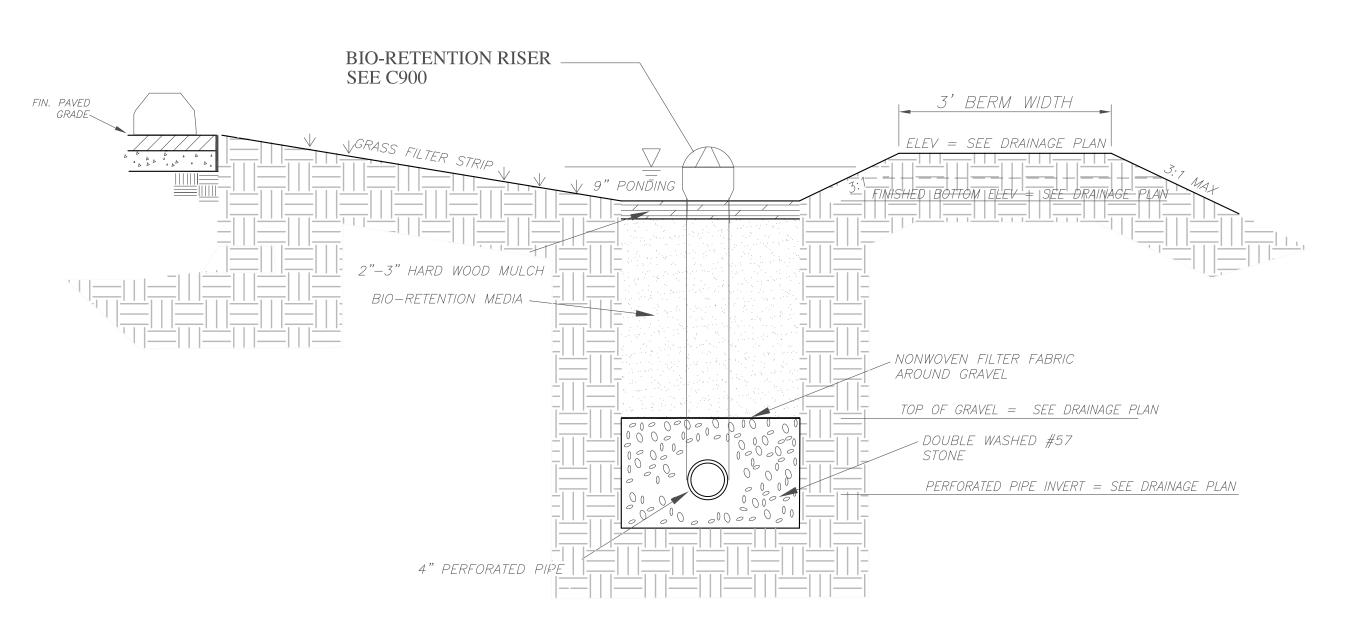
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423-498-7020

CHECKED: JOB No. 21330 03/03/2023

SITE DETAILS

MAA CIVIL CONTACT: JOSEPH PARKS, P.E. DIRECT LINE: 423-664-1482



(1) (C800)

DETAIL: BIO-RETENTION AREA

(NTS)

MIN. COVER TO
RIGID PAVEMENT, H

SPRINGLINE

4" FOR 12"-24" PIPE
6" FOR 30"-60" PIPE

MIN. COVER TO
FLEXIBLE PAVEMENT, H

INITIAL
BACKFILL

HAUNCH
BEDDING

SUITABLE
FOUNDATION

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE

UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

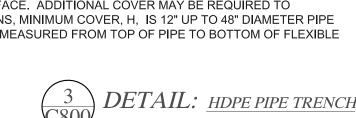
3. <u>FOUNDATION:</u> WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

4. <u>BEDDING</u>: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).

5. <u>INITIAL BACKFILL:</u> SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

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1. 8" CONCRETE BRICK MAY BE USED FOR WALL CONSTRUCTION.

RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

MINIMUM RECOMMENDED COVER BASED ON VECHICLE LOADING CONDITIONS

	VEOINGEE EO/IB	ANO CONDITIONS	
	SURFACE LI	VE LOADING CONDITION	
IPE DIAM.	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *	
12" - 48"	12"	48"	
54" - 60"	24"	60"	

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

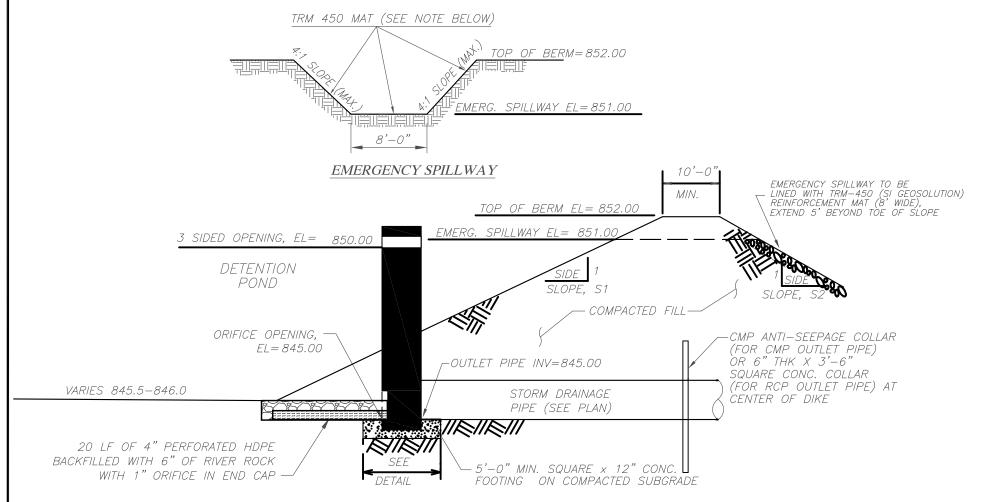
MINIMUM RECOMMENDED COVER BASED
ON RAILWAY LOADING CONDITIONS
PIPE DIAM. COOPER

PIPE DIAM.	COOPER E-80**	
UP TO 24"	24"	
30"-36"	36"	
42"-60"	48"	

** COVER IS MEASURED FROM TOP OF PIPE TO BOTTOM OF RAILWAY TIE.

*** E-80 COVER REQUIREMENTS, ARE ONLY APPLICABLE TO ASTM F 2306 PIPE.

at
9517 W Ridge Trail Road





 PIPE
 15"-18"
 24"
 30"-42" 48"-60"

 A
 32"
 48"
 80"
 99"

 B
 48"
 72"
 102"
 120"

 C
 30"
 44"
 54"
 56"

 D
 22"
 32"
 55"
 60"

F TOE DETAIL

 $\underline{\mathit{PLAN}}$

3. MINIMUM REBAR COVERAGE — 2" 4. 3/4" CHAMFER ON ALL EXPOSED EDGES.

ELEVATION

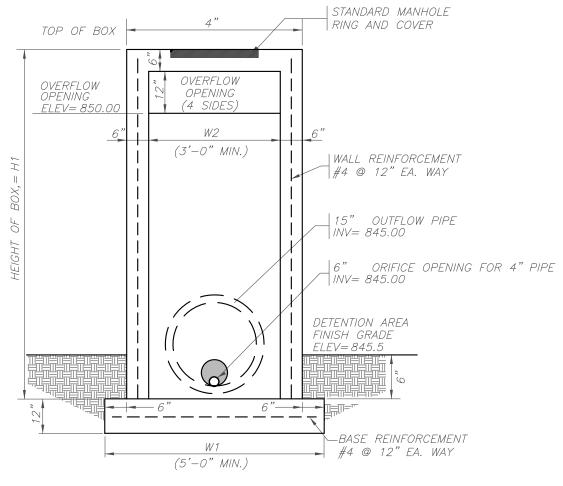
1. CONCRETE 3000 PSI @ 28 DAYS. 2. REINFORCING: #4 BAR @ 12" EACH WAY — GR. 60

BY FORTERRA AS APPROVED BY THE ENGINEER.

5. CONTRACTOR MAY USE EQUIVALENT PRE-CAST STRUCTURE

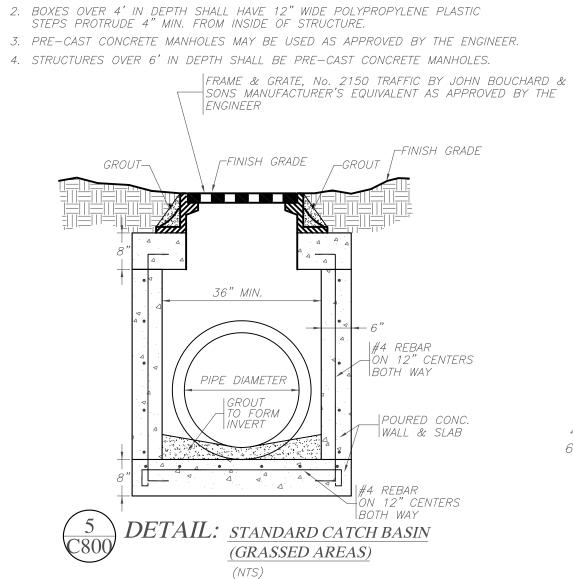
DETAIL: CONCRETE HEADWALL

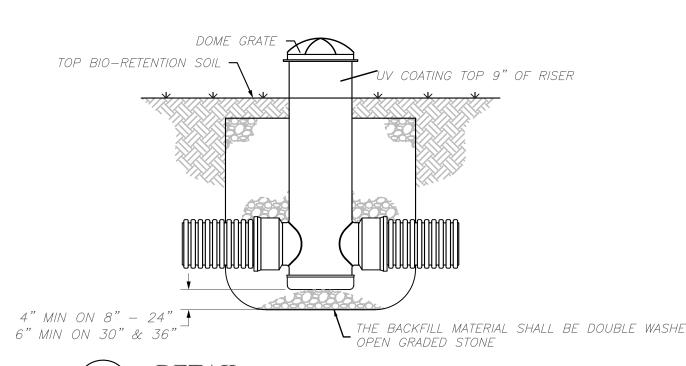
NOTES:





DETAIL: OUTLET CONTROL STRUCTURE







DETAIL: DRAIN BASIN RISER (FOR BIO-RETENTION)



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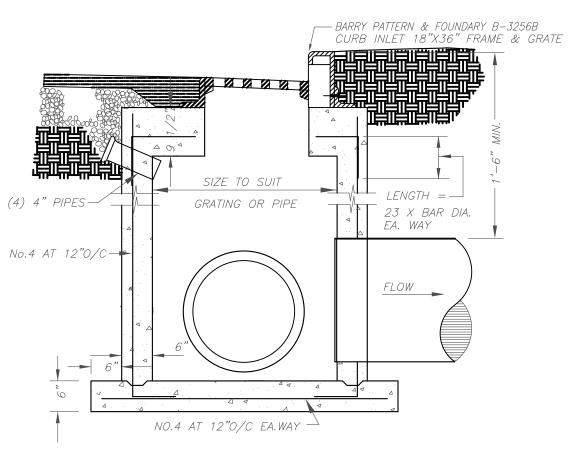
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JOB No.	21330	
DATE:	03/03/2023	

C800

DRAINAGE DETAILS

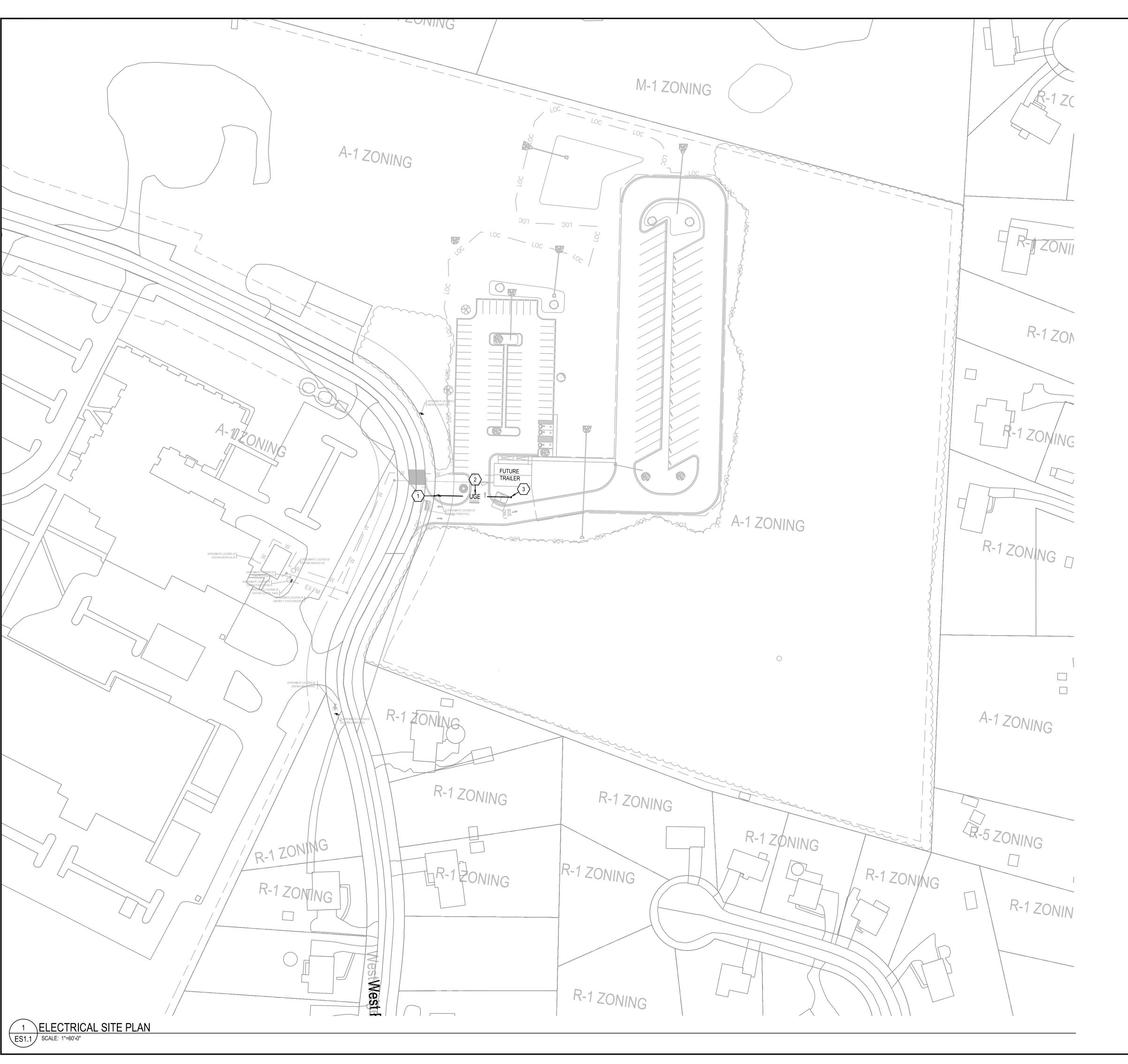


NO.4 AT 12"O/C EA.WAY

8
C800

DETAIL: CURB INLET W_FRAME & GRATE
(NTS)

MAA CIVIL CONTACT: JOSEPH PARKS, P.E. DIRECT LINE: 423-664-1482



GENERAL SITE NOTES

- ALL CONDUCTOR SIZES SHOWN ARE BASED ON THE NEC AMPACITIES OF COPPER CONDUCTORS,
 TYPE THW UNLESS OTHERWISE NOTED. SECONDARY CONDUCTORS TO MAIN ARE ALUMINUM.
- 2. ALL UNDERGROUND WIRING IS TO BE INSTALLED IN SCHEDULE 40 PVC CONDUIT PER THE WRITTEN SPECIFICATIONS. RIGID STEEL ELBOWS ARE TO BE USED ON THE CONDUIT WHEREVER IT TURNS UP AND EXITS THE GROUND
- 3. THE CONTRACTOR SHALL SUPPLY A SEPARATE GREEN INSULATED GROUND WIRE IN ALL RUNS OF PVC CONDUIT, WHETHER SHOWN ON THE DRAWINGS OR NOT.
- 4. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ALL CONCRETE AND RELATED WORK FOR ALL POLE BASES, TRANSFORMER PADS, ETC., WHICH ARE IN HIS SCOPE OF WORK.
- 5. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVISION OF ELECTRICAL WIRING AND ASSOCIATED EQUIPMENT REQUIRED TO PROVIDE SERVICE TO ALL PYLON SIGNS.
- 6. ALL WORK IS TO COMPLY WITH THE LATEST VERSION OF THE NEC AND ALL APPLICABLE STATE, LOCAL, AND MUNICIPAL CODES.
- 7. THE ELECTRICAL CONTRACTOR IS TO COORDINATE ALL OF HIS WORK WITH ALL OF THE OTHER DISCIPLINES AND TRADES. WATER, SEWER, STORM DRAINAGE, ETC., ROUTING TAKE PRECEDENCE OVER THE ELECTRICAL WIRE AND CONDUIT ROUTING. THE ELECTRICAL CONTRACTOR IS TO RELOCATE OR REROUTE AS REQUIRED TO CLEAR SUCH.
- 8. COORDINATE ALL SITE WORK WITH CIVIL DRAWINGS.

UTILITY SUPPLY NOTES

- ALL UTILITY SERVICES SHOWN ARE FOR SCHEMATIC REPRESENTATION ONLY. NO EXPRESSED OR IMPLIED GUARANTEE IS GIVEN AS TO THE EXACT LOCATION, GRADE OR ELEVATION OF THE ABOVE MENTIONED ITEMS. ACTUAL LOCATIONS ARE TO BE BASED ON UTILITY COMPANY AND OWNER INSTRUCTIONS
- 2. THE CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH THE SECONDARY SERVICES AND METER INSTALLATION FEES. ANY POWER CO. AID TO CONSTRUCTION COST TO BE PAID BY THE
- BECAUSE OF ALL OF THE ABOVE REASONS, ALL ELECTRICAL CONTRACTORS DESIRING TO BID ON THIS PROJECT ARE REQUIRED TO VISIT THE JOB SITE PRIOR TO BIDDING SO THAT THEY MAY BECOME FAMILIAR WITH ALL CIRCUMSTANCES WHICH WILL AFFECT THE ELECTRICAL WORK.
- 4. CONTRACTOR SHALL INCLUDE OVERTIME AND AFTER HOURS PREMIUM LABOR CHANGES IN HIS BID AS REQUIRED TO COMPLETE THE INSTALLATION OF THIS PROJECT IN ACCORDANCE PROJECT IN ACCORDANCE WITH THE ARCHITECTS SCHEDULE.
- 5. ALL ELECTRICAL CONTRACTORS ARE REQUIRED TO VISIT THE JOB SITE PRIOR TO BID AND TO INCLUDE ALL REQUIRED COST TO PROVIDE A COMPLETE, FUNCTIONAL AND CODE COMPLIANT ELECTRICAL INSTALLATION.
- 6. COORDINATE SERVICE PROVISIONS FOR TELEPHONE, CATV AND POWER FOR UNDERGROUND SERVICE TO BUILDING.
- 7. OWNER WILL BE RESPONSIBLE FOR AID TO CONSTRUCTION UTILITY COST FOR PROVISION OF SERVICE TO THIS BUILDING.
- 8. ALL REQUIRED 90° ELBOWS OF UTILITY CONDUITS TO BE OF SWEEPING TYPE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH TEMPORARY POWER, BE IT 1Ø OR 3Ø, AS REQUIRED FOR THIS PROJECT.

(XX) ELECTRICAL KEYED NOTES (XX)

- 1. EXISTING POWER POLE. POWER CO. TO SET NEW AERIAL TRANSFORMER BANK FOR NEW ELECTRICAL SERVICE. POWER CO. TO REPLACE POLE AS REQUIRED.
- ELECTRICAL CERVICE. I GWER CO. TO REFEACE FOLE ACRECOINED.
- 2. UNDERGROUND ELECTRICAL SECONDARY FROM POLE TO METER & PANEL. INCLUDE AN EMPTY 2"C. (WITH PULL ROPE) FROM POWER POLE TO STUB NEAR FUTURE TRAILER FOR COMMUNICATIONS.
- B. METER & PANEL "A" ON PIPE & STRUT RACK. SEE RISER DIAGRAM.

HCDE Bus Barn

- 0 m 4 m 0 r m 0 0 1 1

at 9517 W Ridge Trail Road

for

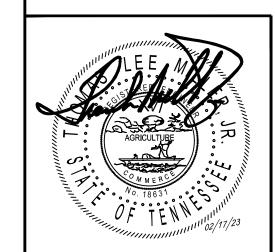
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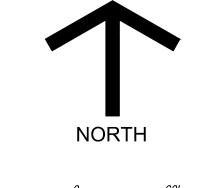
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DATE: 02/24/2023	JOB No. DATE:	21330 02/24/2023
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ELECTRICAL SITE PLAN

LIGHTING CONTACTOR SCHEDULE							
CONTACTOR	CIRCUITS CONTROLLED	CONTROLLED BY	POLES	AMPS PER POLE	COIL	MFG.	MODEL NUMBER
LC-A-1	A-1,3,5,7	"TC-A-1"	6	30	120V	-	-

SCHEDULE NOTES:

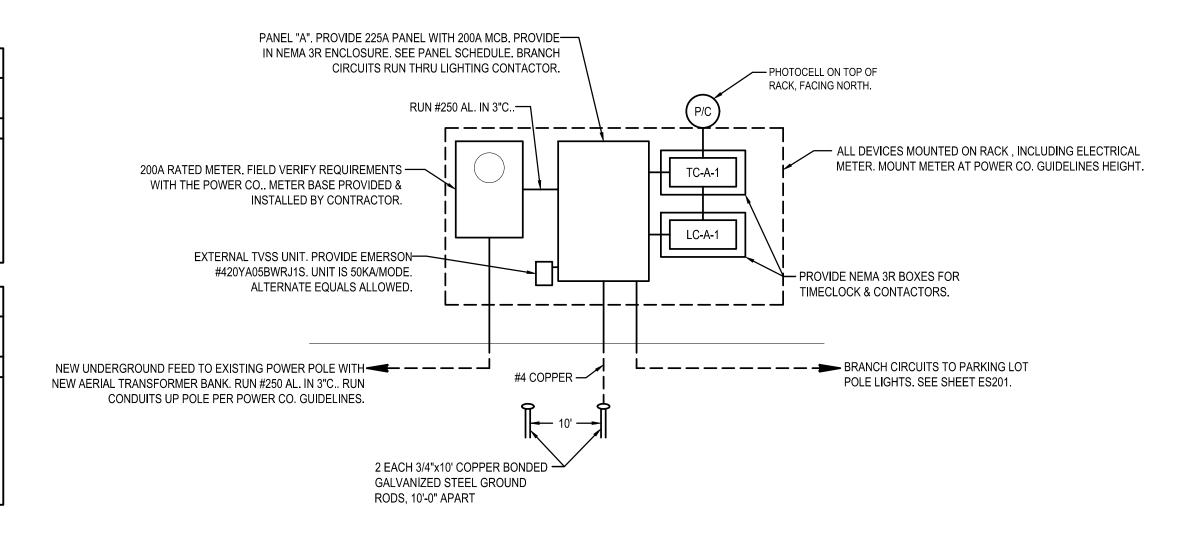
1. ALL CONTACTORS SHALL BE ELECTRICALLY HELD/ELECTRICALLY OPERATED.

- 2. ALL CONTACTORS TO BE LOCATED AT PANEL.
- 3. ALL CONTACTORS TO BE EQUIPPED WITH HOA SWITCH ON COVER.
- 4. PROVIDE LABEL ON COVER OF ALL CONTACTORS.

		TIMECLOCK SCH	IEDULE			
TIMECLOCK	CONTACTOR CONTROLLED	CONTROLLED BY	AMPS PER POLE	CLOCK MOTOR VOLTAGE	MFG.	MODEL NUMBER
TC-A-1	"LC-A-1"	PHOTOCELL	40A	120V	INTERMATIC	T103
0011501115 NOTEO					•	•

- SCHEDULE NOTES:

 1. ALL TIMECLOCKS TO BE LOCATED ADJACENT TO ASSOCIATED PANEL.
- 2. ALL TIMECLOCK SETTINGS TO BE DETERMINED BY OWNER.
- 3. PROVIDE 120V CONNECTION TO TIMECLOCK MOTORS AND CONTACTOR COILS FROM ASSOCIATED PANEL.
- 4. PROVIDE LABEL ON COVER OF ALL TIMECLOCKS.



1 PANEL "A" ELECTRICAL SERVICE PANEL RISER DIAGRAM
ES102 SCALE: NONE

1	NAME: A						VOLTAG	SE:	208	/120, 3 PH., 4 WIRE	
<u>-</u>	MAIN: 2 TRIM: S	25A 00A MCB URFACE, NEMA : ERIES RATED AT		ίΚ					PRO\	S FROM: METER /IDE NEUTRAL BAR /IDE GROUND BAR	
					PHAS	SE LOAD TO	TALS				
СКТ	LOAD	TRI	IP F	PLS	А	В	С	PLS	TRIP	LOAD	СКТ
1	POLE LIGHTS	30)	2	→ 735 ►			-	-	SPACE ONLY	2
3						→ 735 ►		-	-	SPACE ONLY	4
5	POLE LIGHTS	30)	2			~ 840		-	SPACE ONLY	6
7					→ 840 -			-	-	SPACE ONLY	8
9	SPACE ONLY	-		-	-	 ►		-	-	SPACE ONLY	10
11	SPACE ONLY	-		-			▼	-	-	SPACE ONLY	12
13	SPACE ONLY	-		-	▼			-	-	SPACE ONLY	14
15	SPACE ONLY	-		-		 ►		_	_	SPACE ONLY	16
17	SPACE ONLY	-		-		-	▼		-	SPACE ONLY	18
19	SPACE ONLY	-		-	 -			_	_	SPACE ONLY	20
21	SPACE ONLY	-		-		 ►		-	-	SPACE ONLY	22
23	SPACE ONLY	-		-			▼		-	SPACE ONLY	24
25	SPACE ONLY	-			▼				-	SPACE ONLY	26
27	SPACE ONLY	-		-		▼			-	SPACE ONLY	28
29	SPACE ONLY	-		-			▼		_	SPACE ONLY	30
31	SPACE ONLY	-		-				-		SPACE ONLY	32
33	SPACE ONLY	-		-				_	-	SPACE ONLY	34
35	SPACE ONLY	-		-		-	→		-	SPACE ONLY	36
37	TVSS UNIT	30		3	~ ►			-		SPACE ONLY	38
39	1					⊸		_	_	SPACE ONLY	40
41								_	-	SPACE ONLY	42
L - RUN CIRCUIT THRU LIGHTING CONTACTOR.					PHASE LOAD TOTALS			PROVIDE TYPEWRITTEN SCHEDULES WITH PLASTIC COVER. CIRCUIT NAMES TO BE			
					А	В	С	ENGF	EXACTLY AS LISTED HERE. PROVIDE ENGRAVED NAMEPLATE ON FACE OF PANEL.		
					1575	735	840				



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9517 W Ridge Trail Road

for

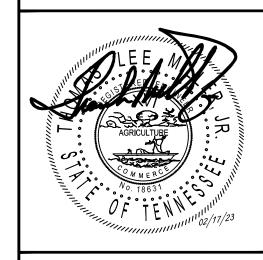
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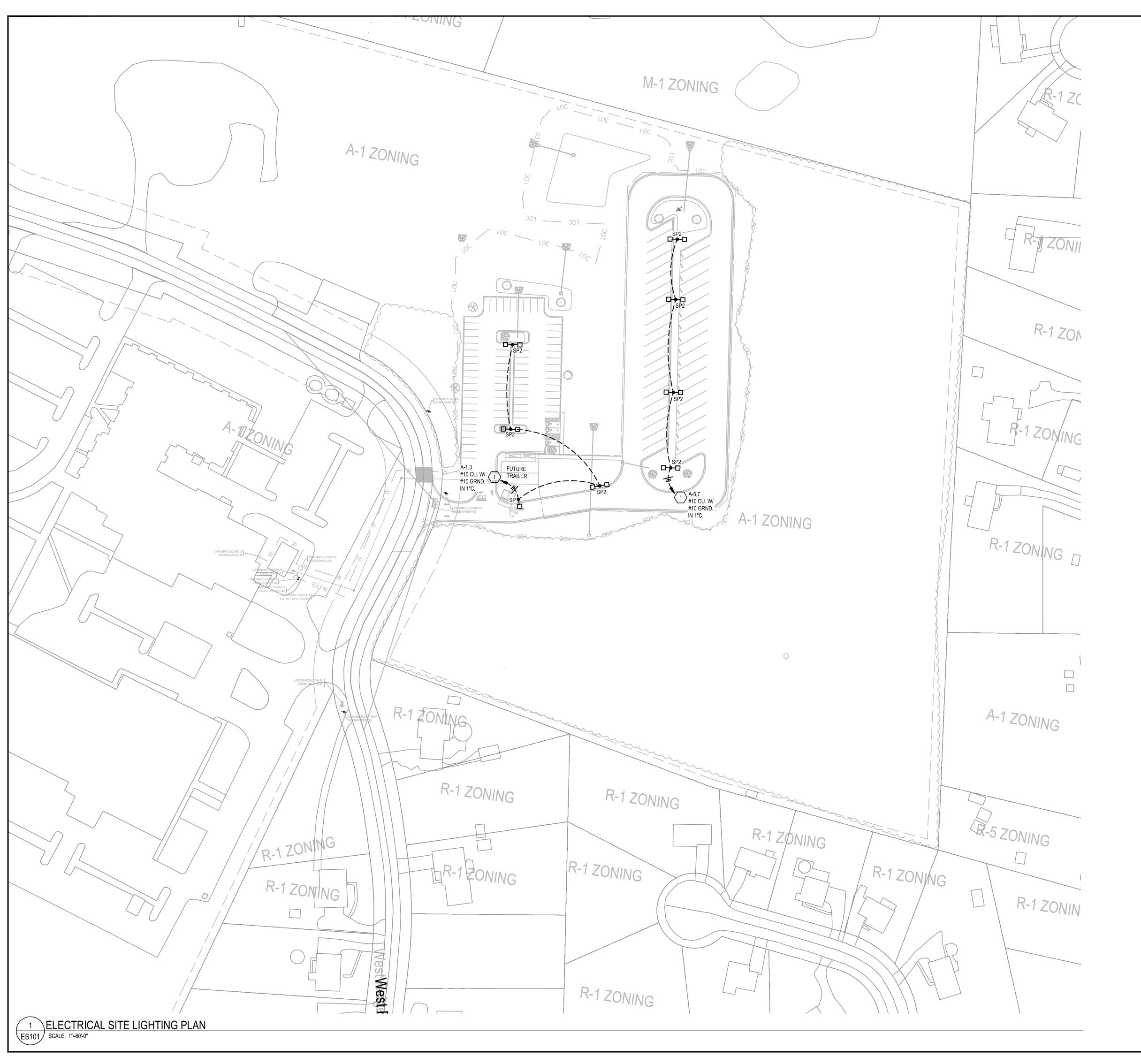
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DATE:	02/24/2023	

ES102

ELECTRICAL SITE DETAILS



GENERAL PLAN NOTES

- ALL POLE BASES ARE TO BE LOCATED 18" MINIMUM OFF BACK FACE OF CURB TO EDGE OF POLE BASE. THOSE LOCATED IN AN ISLAND ARE TO BE CENTERED IN ISLAND.
- 2. ALL POLE MOUNTED LIGHT FIXTURES ARE TO BE INSTALLED AT 25' ABOVE FINISHED GRADE (MAX BY CITY ORDINANCE). PROVIDE DIFFERENT POLE LENGTHS FOR POLES LOCATED IN PAVED AND NON PAVED AREAS.

SITE LIGHTING FIXTURE SCHEDULE

DESCRIPTION
POLE MOUNTED AREA LIGHT. SEE SHEET ES2.2 FOR DESCRIPTION.

POLE MOUNTED AREA LIGHT. SEE SHEET ES2.2 FOR DESCRIPTION.

. RUN CIRCUIT THRU LIGHTING CONTACTOR. CONTACTOR TO BE CONTROLLED BY TIMECLOCK & PHOTOCELL ASSEMBLY.

9517 W Ridge Trail Road

- 0 m 4 m 9 r 8 m 0 t t

HCDE Bus Barn

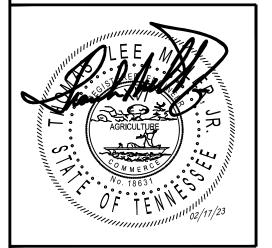
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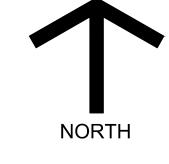
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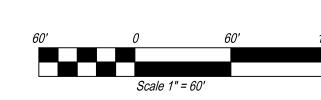


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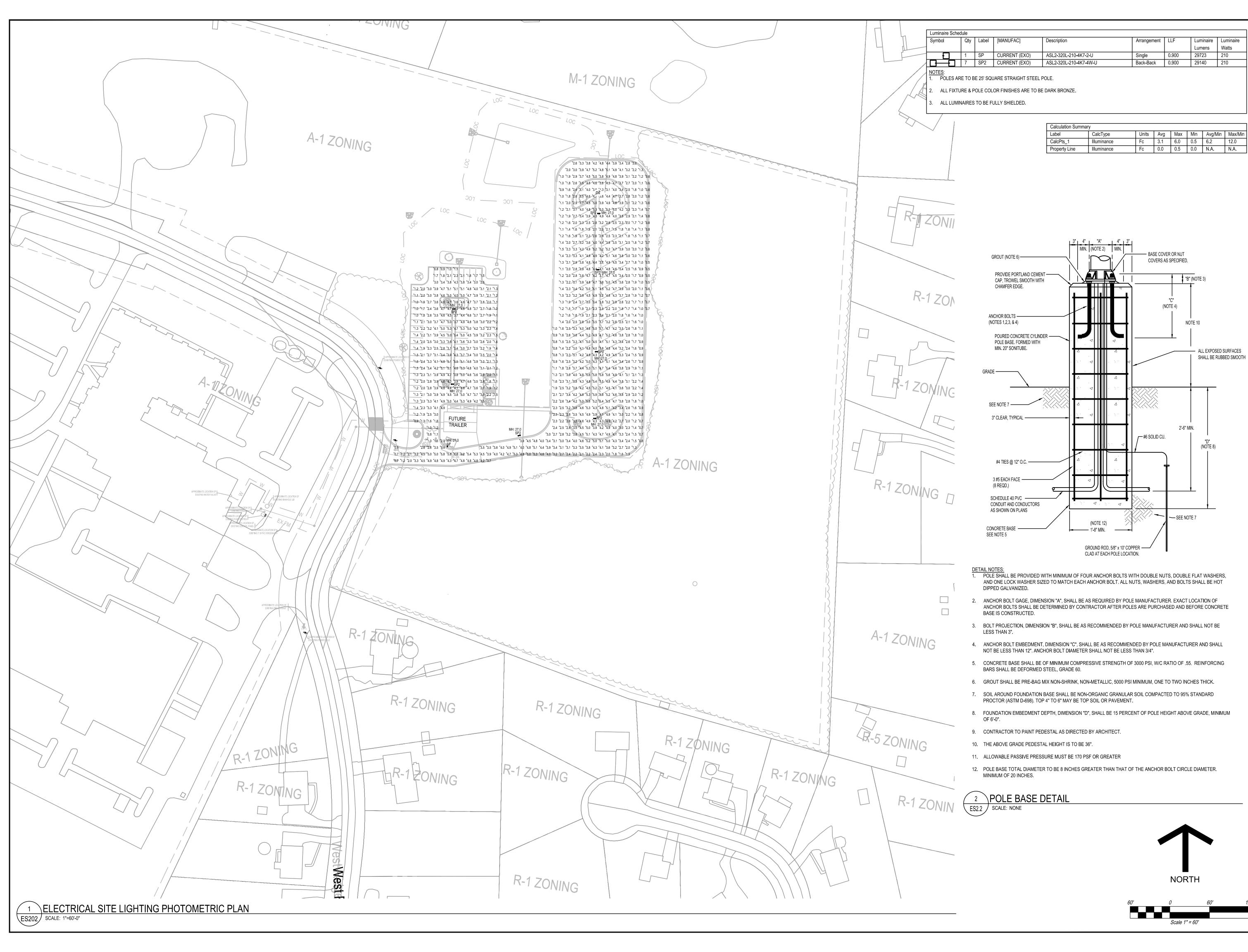


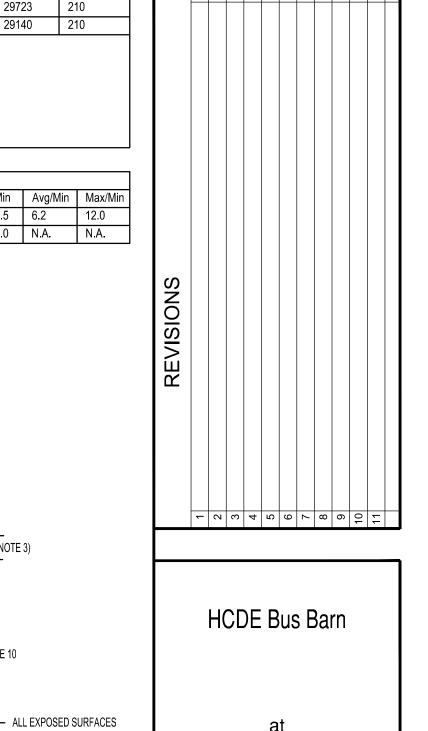




DRAWN: CHECKED: JOB No. 21330 03/03/2023 **ES201**

> **ELECTRICAL SITE** LIGHTING PLAN





Luminaire Luminaire

Lumens Watts

NOTE 10

SHALL BE RUBBED SMOOTH

9517 W Ridge Trail Road

for

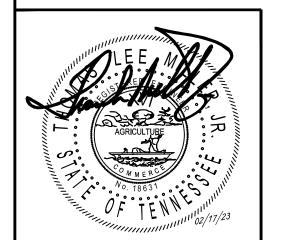
HAMILTON CO DEPT. EDUCATION

3074 Hickory Valley Rd Chattanooga, TN 37421 423-498-7020



March Adams & Associates
Consulting Engineers

310 Dodds Ave. P.O. Box 3689 Chattanooga, Tennessee 37404 PH: (423)698-6675



DATE:	03/03/2023	
JOB No.	21330	
CHECKED:	JP	
DRAWN:	AE	

ES202

ELECTRICAL SITE LIGHTING PHOTOMETRIC PLAN