

DEMOLITION GENERAL NOTES

- DEMOLITION AND REMOVAL OPERATIONS SHALL COMMENCE ONLY AFTER ALL EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE AND FUNCTIONAL.
2. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.
3. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL PERMITS, AND PAY ALL FEES REQUIRED FOR THE EXECUTION OF THE WORK.
4. NOTIFY LOCAL UTILITY LOCATOR SERVICE (CALL 811) OF INTENDED DEMOLITION OPERATIONS.
5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES, TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN, AND REPAIR CONTRACTOR CAUSED DAMAGE ACCORDING TO CURRENT LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANIES. RELOCATE EXISTING IRRIGATION LINES AS NECESSARY FOR CONSTRUCTION.
6. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A WASTE MANAGEMENT PLAN PRIOR TO THE COMMENCEMENT OF WORK. AT A MINIMUM THE PLAN SHALL INCLUDE:
 - 6.1. THE PROPER PROCEDURES FOR DISPOSAL OR RECLAIMING FOR REUSE / RECYCLING.
 - 6.2. DESIGNATED AREAS FOR WASTE MANAGEMENT CONTAINERS. CONTAINERS SHALL BE PROPERLY MARKED FOR ALLOWABLE AND PROHIBITED ITEMS AND MATERIALS.
 - 6.3. DESIGNATED CHEMICAL STORAGE AREAS, APPROPRIATE CHEMICAL STORAGE CONTAINERS, AND PROCEDURES FOR SPILL CONTROL. CHEMICALS SHALL NOT BE PERMITTED TO INFILTRATE TO GROUNDWATER OR BE PUMPED UNTREATED FROM PIT DEWATERING FACILITIES.
 - 6.4. CONCRETE WASHOUT AREAS, LOCATED AWAY FROM DESIGNATED CONSTRUCTION EXIT.
7. PROVIDE NEAT AND STRAIGHT SAWCUTS OF EXISTING PAVEMENT ALONG ALL LIMITS OF PAVEMENT DEMOLITION.
8. ALL DEMOLISHED MATERIALS BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED. DISPOSE OF OFF THE OWNER'S PROPERTY IN A LEGAL MANNER. PROLONGED STORAGE OR THE SALE OF DEMOLISHED ITEMS OR MATERIALS ON-SITE IS NOT PERMITTED WITHOUT PRIOR NOTIFICATION AND CONSENT OF OWNER.
9. ALL PAVEMENT, BASE COURSE, SIDEWALKS, CURBS, BUILDINGS, FOUNDATIONS, ETC., IN THE AREA TO BE REMOVED SHALL BE REMOVED TO FULL DEPTH. EXISTING BASE COURSE MATERIALS MAY BE WORKED INTO THE NEW PAVEMENT OR BUILDING SUBGRADE PROVIDED THAT THE GRADATION, CONSISTENCY, COMPACTION, SUBGRADE CONDITION, ETC., ARE IN ACCORDANCE WITH THE SPECIFICATIONS. BASE COURSE MATERIALS SHALL NOT BE WORKED INTO THE SUBGRADE OF AREAS TO RECEIVE PLANTING.
10. THE CONTRACTOR SHALL USE WATER SPRINKLING AND OTHER SUITABLE METHODS AS NECESSARY TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION WORK.
11. ALL EXISTING FEATURES REMAINING AND NOT SPECIFICALLY MENTIONED THAT INTERFERE WITH THE NEW CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. NOTIFY THE OWNER OR CONSTRUCTION MANAGER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH DEMOLITION WORK.
12. IT IS NOT ANTICIPATED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, IMMEDIATELY NOTIFY THE OWNER.
13. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL STREETS, FENCES, TREES, UTILITIES AND STRUCTURES THAT ARE TO REMAIN. CONTRACTOR-CAUSED DAMAGE SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
14. CAVITIES LEFT BY STRUCTURE REMOVAL SHALL BE BACKFILLED WITH SATISFACTORY MATERIAL AND COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM D698 - STANDARD PROCTOR.
15. EXISTING INFORMATION/TOPOGRAPHIC SURVEY WAS PREPARED BY CORNERSTONE REGIONAL SURVEYING, LLC, DATED 12/10/2019.
16. PAVEMENT MARKINGS TO BE REMOVED SHALL BE PAINTED OVER TO MATCH PAVEMENT OR REMOVED WITH WIRE BRUSHING.
17. EXCEPT AS SHOWN, NO TREES SHALL BE REMOVED AND/OR VEGETATION DISTURBED WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.
18. TREE PROTECTION SHALL CONSIST OF THE FOLLOWING STEPS:
 - A. CONTRACTOR SHALL HIRE A LICENSED LANDSCAPE CONTRACTOR TO OVERSEE TREE PROTECTION.
 - B. PRIOR TO ANY GRADING OPERATIONS, LOCATE TREES TO BE PROTECTED AND NEATLY CUT ROOTS TO A DEPTH OF 30" AT THE DIMENSIONED LIMITS SHOWN USING A UTILITY TRENCHING MACHINE.
 - C. TREAT EXPOSED ROOTS WITH A HORTICULTURAL TREE PRUNING PROTECTION PRODUCT.
 - D. PRUNE TREE LIMBS BY THE SAME PROPORTIONAL PERCENTAGE AS TREE ROOTS REMOVED (I.E., 25% OF ROOTS REMOVED SHALL RESULT IN 25% OF TREE LIMBS REMOVED).
 - E. INSTALL A MIN. 4" HIGH CONSTRUCTION FENCE TO THE LIMITS SHOWN.
 - F. BEGIN CLEARING AND GRADING OPERATIONS.

LAYOUT AND PAVING GENERAL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, GIVE ALL NECESSARY NOTIFICATIONS, OBTAIN ALL PERMITS, AND PAY ALL FEES PRIOR TO BEGINNING WORK.
2. THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO BEGINNING WORK.
3. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES, TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN, AND REPAIR CONTRACTOR CAUSED DAMAGE ACCORDING TO CURRENT LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY. RELOCATE IRRIGATION LINES AS NECESSARY FOR CONSTRUCTION.
4. ALL DAMAGE TO EXISTING PAVEMENT TO REMAIN WHICH RESULTS FROM NEW CONSTRUCTION SHALL BE REPLACED WITH LIKE MATERIALS AT CONTRACTOR'S EXPENSE.
5. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES PRIOR TO INSTALLATION OF PAVEMENT.
6. CONCRETE WALKS AND PADS SHALL HAVE A BROOM FINISH. ALL CONCRETE SHALL BE 4,000 P.S.I. UNLESS OTHERWISE NOTED. CURB RAMP, SIDEWALK SLOPES, AND DRIVEWAY RAMP SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL CURRENT LOCAL REQUIREMENTS. IF APPLICABLE, THE CONTRACTOR SHALL REQUEST INSPECTION OF SIDEWALK AND RAMP FORMS PRIOR TO PLACEMENT OF CONCRETE.
7. DIMENSIONS ARE TO THE FACE OF CURB, EDGE OF CONCRETE, OR TO THE FACE OF BUILDING, UNLESS OTHERWISE NOTED.
8. COORDINATES ARE FOR FACE OF BUILDINGS, CENTER LINES OF DRIVEWAYS, CENTER OF SEWER MANHOLES, AND CENTER AT FACE OF CURB ON CURB INLETS, UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL DISPOSE OF EXCESS MATERIAL OFF THE OWNER'S PROPERTY IN A LEGAL MANNER AT NO ADDITIONAL COST.
10. MAINTAIN ONE SET OF AS-BUILT DRAWINGS ON THE JOB SITE FOR DISTRIBUTION TO THE ARCHITECT/ENGINEER UPON COMPLETION.
11. PARKING STRIPES SHALL BE 4-INCH WHITE PAVEMENT PAINT, UNLESS OTHERWISE NOTED ON PLANS.
12. CONSTRUCTION JOINTS SHALL BE CONSTRUCTED TO A DEPTH OF AT LEAST 1/4 THE CONCRETE THICKNESS AND SHALL DIVIDE CONCRETE ROUGHLY INTO SQUARES WITH MAXIMUM 10' SEGMENTS.
13. CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY CONSISTING OF THE FOLLOWING:
 - A. AN AS-BUILT SURVEY SHALL BE PREPARED, SIGNED AND SEALED BY A SURVEYOR REGISTERED IN THE STATE IN WHICH THIS PROJECT RESIDES AND SUBMITTED TO THE ARCHITECT/ENGINEER IN HARD COPY AND ELECTRONIC FORMAT PRIOR TO COMPLETION OF THIS PROJECT. THE AS-BUILT SURVEY SHALL BE PREPARED USING THE SAME HORIZONTAL AND VERTICAL DATUM AS THE ORIGINAL SURVEY.

- THE AS-BUILT SURVEY SHALL DEPICT ALL BUILDINGS, CURB LINES, EDGES OF PAVEMENT, SIDEWALKS, AND PARKING.
- C. THE AS-BUILT SURVEY SHALL LOCATE ALL UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE PROJECT INCLUDING: GROUNDWATER TRAP, OIL/WATER SEPARATOR, DRAINAGE AND SANITARY STRUCTURES, WATER VALVES, METERS, PIVS, AND HYDRANTS.
- D. THE AS-BUILT SURVEY SHALL INCLUDE ALL ACCESSIBLE PATHS, PEDESTRIAN RAMPS AND LANDINGS, AND ACCESSIBLE PARKING AREAS INCLUDING AISLES AND DROP-OFF/PICK-UP AREAS. DIMENSION FULL LENGTH AND WIDTH OF ALL PEDESTRIAN RAMPS AND LANDINGS. SHOW ELEVATIONS AND SLOPES, INCLUDING LONGITUDINAL AND CROSS SLOPES FOR ALL ACCESSIBLE AREAS. THE ARCHITECT/ENGINEER WILL USE THIS SURVEY TO CHECK COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS.
- E. THE AS-BUILT SURVEY SHALL INCLUDE ALL STORMWATER MANAGEMENT FEATURES, INCLUDING BUT NOT LIMITED TO: PONDS, BIOSWALES, RAIN GARDENS, WATER QUALITY UNITS, AND OUTLET STRUCTURES.
- F. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ARCHITECT/ENGINEER WITH A CONSTRUCTION SCHEDULE FOR VARIOUS SITEWORK ELEMENTS SO THAT PERIODIC SITE VISITS MAY BE COORDINATED TO ALLOW TIMELY CERTIFICATION OF CONSTRUCTION TO AGENCIES, AND TO AVOID DELAYS IN ISSUANCE OF CERTIFICATES OF OCCUPANCIES.
- GRADING AND DRAINAGE GENERAL NOTES:**
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, GIVE ALL NECESSARY NOTIFICATIONS, OBTAIN ALL PERMITS, AND PAY ALL FEES PRIOR TO BEGINNING GRADING AND DRAINAGE WORK.
- NOTIFY LOCAL UTILITY LOCATOR SERVICE (CALL 811) OF INTENDED EXCAVATION/UTILITY TRENCHING OPERATIONS
- CONSTRUCT TEMPORARY EROSION CONTROL AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING GRADING OPERATIONS.
- NO TREES SHALL BE REMOVED NOR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES AND ONLY AS APPROVED BY THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL PROTECT ALL TREES DESIGNATED TO REMAIN. DO NOT OPERATE OR STORE HEAVY EQUIPMENT, NOR HANDLE/STORE MATERIALS, WITHIN THE DRIPLINES OF TREES.
- ALL TREES, INCLUDING YOUNG SAPLINGS, PINES, AND UNDERSTORY SPECIES ARE TO BE PROTECTED AND SAVED IF THEY FALL OUTSIDE THE PROPOSED LIMITS OF GRADING, EVEN IF THEY ARE NOT LOCATED OR IDENTIFIED ON THE SURVEY.
- TREE PROTECTION SHALL CONSIST OF THE FOLLOWING STEPS:
- A. CONTRACTOR SHALL HIRE A LICENSED LANDSCAPE CONTRACTOR TO OVERSEE TREE PROTECTION.
- B. PRIOR TO ANY GRADING OPERATIONS, LOCATE TREES TO BE PROTECTED AND NEATLY CUT ROOTS TO A DEPTH OF 30" AT THE DIMENSIONED LIMITS SHOWN USING A UTILITY TRENCHING MACHINE.
- C. TREAT EXPOSED ROOTS WITH A HORTICULTURAL TREE PRUNING PROTECTION PRODUCT.
- D. PRUNE TREE LIMBS BY THE SAME PROPORTIONAL PERCENTAGE AS TREE ROOTS REMOVED (I.E., 25% OF ROOTS REMOVED SHALL RESULT IN 25% OF TREE LIMBS REMOVED).
- E. INSTALL A MIN. 4" HIGH CONSTRUCTION FENCE TO THE LIMITS SHOWN.
- F. BEGIN CLEARING AND GRADING OPERATIONS.
- EXISTING CONDITIONS (TYPICALLY SCREENED ITEMS) INDICATE A PRE-CONSTRUCTION TOPOGRAPHIC SURVEY PROVIDED BY CORNERSTONE REGIONAL SURVEYING, LLC, DATED 12/10/2019.
- CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND INVERTS PRIOR TO BEGINNING WORK.
- TOPSOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS TO A MINIMUM DEPTH OF 6 INCHES. MAKE STOCKPILES FREE DRAINING AND PROVIDE EROSION AND SEDIMENTATION CONTROLS AROUND STOCKPILES.
1. SATISFACTORY TOPSOIL IS DEFINED AS SOIL BEING FREE OF SUBSOIL, CLAY LUMPS, STONES, OTHER OBJECTS OVER 1 INCH IN DIAMETER, OR CONTAMINANTS.
2. 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.
3. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, PROTECT UTILITIES TO REMAIN, AND REPAIR CONTRACTOR-CAUSED DAMAGE ACCORDING TO LOCAL STANDARDS AT CONTRACTOR'S EXPENSE.
4. IN THE EVENT OF ANY DISCREPANCIES FOUND IN THE DRAWINGS OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
5. SPOT ELEVATIONS AND CONTOURS REPRESENT PROPOSED FINISHED GRADE AND TOP OF FINISHED PAVEMENT.

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2. NOTIFY LOCAL UTILITY LOCATOR SERVICE (CALL 811) OF INTENDED EXCAVATION/UTILITY TRENCHING OPERATIONS
3. CONSTRUCT TEMPORARY EROSION CONTROL AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING GRADING OPERATIONS.
4. NO TREES SHALL BE REMOVED NOR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES AND ONLY AS APPROVED BY THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL PROTECT ALL TREES DESIGNATED TO REMAIN. DO NOT OPERATE OR STORE HEAVY EQUIPMENT, NOR HANDLE/STORE MATERIALS, WITHIN THE DRIPLINES OF TREES.
5. ALL TREES, INCLUDING YOUNG SAPLINGS, PINES, AND UNDERSTORY SPECIES ARE TO BE PROTECTED AND SAVED IF THEY FALL OUTSIDE THE PROPOSED LIMITS OF GRADING, EVEN IF THEY ARE NOT LOCATED OR IDENTIFIED ON THE SURVEY.
6. TREE PROTECTION SHALL CONSIST OF THE FOLLOWING STEPS:
- A. CONTRACTOR SHALL HIRE A LICENSED LANDSCAPE CONTRACTOR TO OVERSEE TREE PROTECTION.
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8. CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND INVERTS PRIOR TO BEGINNING WORK.
9. TOPSOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS TO A MINIMUM DEPTH OF 6 INCHES. MAKE STOCKPILES FREE DRAINING AND PROVIDE EROSION AND SEDIMENTATION CONTROLS AROUND STOCKPILES.
10. SATISFACTORY TOPSOIL IS DEFINED AS SOIL BEING FREE OF SUBSOIL, CLAY LUMPS, STONES, OTHER OBJECTS OVER 1 INCH IN DIAMETER, OR CONTAMINANTS.
11. TOP OF GATE 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.
12. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, PROTECT UTILITIES TO REMAIN, AND REPAIR CONTRACTOR-CAUSED DAMAGE ACCORDING TO LOCAL STANDARDS AT CONTRACTOR'S EXPENSE.
13. IN THE EVENT OF ANY DISCREPANCIES FOUND IN THE DRAWINGS OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
14. SPOT ELEVATIONS AND CONTOURS REPRESENT PROPOSED FINISHED GRADE AND TOP OF FINISHED PAVEMENT.
15. CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF A DETAILED ENGINEERING GRADING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO DRAINAGE. THE CONTRACTOR IS RESPONSIBLE FOR GRADING ALL AREAS TO POSITIVELY DRAIN. SHOULD THE CONTRACTOR HAVE ANY QUESTION OF THIS INTENT OR ANY PROBLEMS WITH CONTINUITY OF GRADES, THE ARCHITECT/ENGINEER SHALL BE CONTACTED PRIOR TO BEGINNING WORK.
16. ALL PERMANENT CUT AND FILL SLOPES SHALL BE 3:1 MAXIMUM. TEMPORARY CUT SLOPES SHALL NOT EXCEED 2:1 MAXIMUM UNLESS TEMPORARY SHORING IS PROVIDED, OR UNLESS DIRECTED OTHERWISE BY A LICENSED GEOTECHNICAL ENGINEER.
17. CONTRACTOR SHALL DISPOSE OF EXCESS MATERIAL OFF THE OWNER'S PROPERTY IN A LEGAL MANNER AT NO ADDITIONAL COST.
18. EXISTING MANHOLE AND CATCH BASIN CASTINGS TO REMAIN SHALL BE RESET TO MATCH NEW GRADE.
19. ALL CURBS AND SIDEWALKS SHALL BE BACKFILLED FLUSH WITH TOPSOIL, AND SEEDED AND MULCHED.
20. 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 D698 - STANDARD PROCTOR.
21. ALL STORM DRAINAGE PIPE SHALL BE HDPE, MEETING THE REQUIREMENTS OF AASHTO M294, TYPE S, MINIMUM WALL THICKNESS B UNLESS OTHERWISE NOTED. PIPE LENGTHS SHOWN ARE APPROXIMATE 2D LENGTH FROM CENTER OF UPSTREAM STRUCTURE TO CENTER OF DOWNSTREAM STRUCTURE.
22. ALL HEADWALLS SHALL HAVE A MINIMUM 10' x 20' x 1.5' RIP-RAP APRON INSTALLED USING 8" MIN. DIAMETER STONE, UNLESS OTHERWISE SPECIFIED.
23. FINAL FINISH GRADE TOLERANCES SHALL BE 0.1 FOOT ABOVE OR BELOW DESIGN ELEVATIONS WITHIN THE BUILDING PADS AND PAVED AREAS, AND 0.25 FOOT ABOVE OR BELOW DESIGN FINISH ELEVATIONS IN OTHER AREAS. NO TOLERANCE IS ALLOWED WHEN MAXIMUM OR MINIMUM SLOPES ARE SPECIFIED.
24. ADA PARKING AND LOADING AREAS SHALL NOT EXCEED 2% IN ANY DIRECTION. ADA ACCESS ROUTES SHALL NOT EXCEED 2% CROSS SLOPE, 5% LONGITUDINAL SLOPE, EXCEPT WHERE ADA RAMPS ARE SPECIFIED.
25. EARTHWORK FILL SHALL INCLUDE STRIPPING TOPSOIL AND PLACING ENGINEERED FILL IN MAXIMUM 8" COMPACTED LIFTS WITH DENSITY OF 95% OF MAXIMUM PER ASTM D698 - STANDARD PROCTOR.
26. EXCAVATION FOR THIS PROJECT IS UNCLASSIFIED. A GEOTECHNICAL EXPLORATIONS REPORT COMPLETED BY PSI, INTERTEK, DATED JULY 24, 2019, HAS BEEN PROVIDED AS AN ATTACHMENT TO THE PROJECT SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE REPORT AND THE PROJECT SITE TO BECOME FAMILIAR WITH THE ANTICIPATED EXCAVATION REQUIREMENTS. ADDITIONAL PAYMENT WILL NOT BE MADE FOR UNANTICIPATED ROCK EXCAVATION, UNLESS OTHERWISE AGREED UPON WITH OWNER PRIOR TO COMMENCEMENT OF ROCK EXCAVATION.
27. AN AS-BUILT TOPOGRAPHIC SURVEY OF THE FINAL STORMWATER MANAGEMENT POND(S) AND OUTLET STRUCTURE(S) SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW FOR COMPLIANCE WITH THE ORIGINAL DESIGN.
28. IF BLASTING IS REQUIRED, CONTRACTOR SHALL COMPLY WITH APPLICABLE REQUIREMENTS IN NFPA 495, "EXPLOSIVE MATERIALS CODE," AND PREPARE A BLASTING PLAN CONTAINING THE FOLLOWING:
- 28.1. TYPES OF EXPLOSIVES AND SIZES OF CHARGE TO BE USED IN EACH AREA OF ROCK REMOVAL, TYPES OF BLASTING MATS, SEQUENCE OF BLASTING OPERATIONS, AND PROCEDURES THAT WILL PREVENT DAMAGE TO SITE IMPROVEMENTS AND STRUCTURES ON THE PROJECT SITE AND ADJACENT PROPERTIES.
- 28.2. SEISMOGRAPHIC MONITORING DURING BLASTING OPERATIONS.

BLASTING PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE, ALONG WITH OTHER BLASTING RECORDS REQUIRED, AND MAY BE SUBJECT TO REVIEW BY OWNER OR OWNER'S REPRESENTATIVE AT REQUEST. OBTAIN PERMITS FROM AUTHORITIES HAVING JURISDICTION BEFORE BRINGING EXPLOSIVES TO THE PROJECT SITE. PERFORM BLASTING WITHOUT WEAKENING THE BEARING CAPACITY OF ROCK SUBGRADE AND WITH THE LEAST-PRACTICABLE DISTURBANCE TO ROCK TO REMAIN.

29. ENGAGE A QUALIFIED, INDEPENDENT AGENCY TO PERFORM A PRE-BLAST AND POST-BLAST SURVEY OF ALL STRUCTURES SUBJECT TO BLAST VIBRATIONS. CONTRACTOR SHALL COORDINATE ALL BLASTING ACTIVITIES WITH SURVEYOR, INCLUDING BLASTING PLANS, SCHEDULES, ETCETERA. CONTRACTOR MAY, AT HIS EXPENSE, OBTAIN A VIBRATION CONSULTANT TO REVIEW THE BLASTING PLAN AND MAKE RECOMMENDATIONS. REVIEW OF THE BLAST DESIGN, SURVEY, MONITORING, AND

TECHNIQUES BY THE ENGINEER OR VIBRATION CONSULTANT SHALL NOT RELIEVE THE CONTRACTOR OF THE COMPLETE RESPONSIBILITY FOR ACCURACY, ADEQUACY, AND SAFETY OF THE BLASTING. NOTHING CONTAINED HEREIN SHALL RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR CLAIMS ARISING FROM HIS CONSTRUCTION OPERATIONS. IN THE EVENT THAT ANY PROPERTY OWNER DENIES ACCESS FOR THE SURVEY OF STRUCTURES AND FACILITIES, THE CONTRACTOR SHALL NOTIFY SUCH PROPERTY OWNER, BY CERTIFIED MAIL, STATING THAT THIS IS FINAL NOTIFICATION. A COPY OF THE BLASTING RECORDS SHALL BE SUBMITTED TO THE ARCHITECT / ENGINEER FOR THEIR RECORDS.

- CONTRACTOR SHALL NOTIFY ADJACENT RESIDENCES AND/OR BUSINESSES SUBJECT TO BLASTING VIBRATIONS OF THE INTENT TO BLAST AT LEAST 24 HOURS IN ADVANCE. CONTRACTOR SHALL DISCLOSE THE ANTICIPATED TIME OF DAY AND SCHEDULE FOR BLASTING. SUBMIT NOTICE OF BLASTING COMPLAINTS TO ARCHITECT / ENGINEER AND OWNER WITHIN 24 HOURS OF RECEIPT THEREOF. THE NOTICE SHALL IDENTIFY THE ORIGIN OF COMPLAINT AND SHALL CONTAIN A BRIEF DESCRIPTION OF ALLEGED DAMAGES OR OTHER CIRCUMSTANCES UPON WHICH THE COMPLAINT IS PREDICATED. CONTRACTOR SHALL ASSIGN EACH COMPLAINT A SEPARATE NUMBER, IN ASCENDING ORDER, AND SHOW IN EACH NOTICE ALL PREVIOUS COMPLAINT NUMBERS REGISTERED BY THE SAME COMPLAINANT.
- SITE UTILITIES GENERAL NOTES:**
1. WATER AND SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL CODES AND SPECIFICATIONS.
 2. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, GIVE ALL NECESSARY NOTIFICATIONS, OBTAIN ALL PERMITS, AND PAY ALL FEES PRIOR TO BEGINNING UTILITY WORK.
 3. THE CONTRACTOR IS PARTICULARLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES SHOWN IS BASED ON LIMITED TOPOGRAPHIC SURVEYS AND RECORD DRAWINGS. THE CONTRACTOR SHALL NOT RELY ON THIS INFORMATION AS BEING EXACT OR COMPLETE. SHOULD UNCHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE FOR INSTRUCTIONS.
 4. NOTIFY THE LOCAL UTILITY LOCATOR SERVICE (CALL 811) AND ANY NON ONE CALL SYSTEM MEMBER UTILITY INDIVIDUALLY AT LEAST 3 WORKING DAYS PRIOR TO ANY EXCAVATION/UTILITY TRENCHING OPERATIONS.
 5. MAINTAIN 10-FOOT HORIZONTAL AND 18-INCH VERTICAL SEPARATION BETWEEN SANITARY SEWER AND WATER SUPPLY LINES.
 6. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES INCLUDING IRRIGATION. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN AND REPAIR CONTRACTOR-CAUSED DAMAGE ACCORDING TO CURRENT LOCAL STANDARDS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY. RELOCATE IRRIGATION LINES AS NECESSARY FOR CONSTRUCTION.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES, GAS LINES, AND UNDERGROUND ELECTRIC DO NOT CONFLICT WITH SANITARY SEWERS OR STORM SEWERS. INSTALL UTILITIES PRIOR TO FINAL PAVEMENT CONSTRUCTION.
 8. BACKFILL UTILITY TRENCHES UNDER PAVEMENT OR GRAVEL DRIVE AREAS WITH CRUSHED STONE. BACKFILL UTILITY TRENCHES IN LAWN AREAS WITH SATISFACTORY FILL MATERIAL COMPACTED TO AT LEAST 95% OF MAXIMUM PER ASTM D698 - STANDARD PROCTOR.
 9. ADJUST ALL EXISTING-TO-REMAIN UTILITY SURFACE FEATURES, INCLUDING BUT NOT LIMITED TO CASTINGS, VALVE BOXES, PEDESTALS, CLEANOUTS, ETC. TO MATCH PROPOSED FINISH GRADE.
 10. THRUST BLOCK ALL WATERLINE FITTINGS WITH CONCRETE (2,500 P.S.I. MIN) POURED AGAINST UNDISTURBED EARTH TO SUSTAIN 120 PERCENT TEST PRESSURE SPECIFIED. FORM THRUST BLOCKING SO AS TO NOT EMBED JOINTS, BOLTS, VALVE BOXES OR OPERATING NUTS.
 11. PROVIDE VENTS AT HIGH POINTS IN WATERLINE AS NECESSARY FOR EXPELLING AIR DURING FILLING OF WATERLINE. PROVIDE BRONZE CORROSION STOP FOR CLOSING VENT DURING TESTING AND SERVICE. LEAVE VENT COMPONENTS PLUGGED AND ATTACHED TO PIPE AFTER SUCCESSFUL TEST.
 12. ALL SANITARY SEWER PIPE SHALL BE SDR 35 PVC UNLESS NOTED OTHERWISE.
 13. ALL WATER MAINS SHALL BE SDR 21 PVC UNLESS NOTED OTHERWISE.
 14. ALL FIRE HYDRANT ASSEMBLIES SHALL BE INSTALLED BETWEEN 3' AND 7' FROM PAVED SURFACE.
 15. ALL MANHOLES SHALL HAVE MINIMUM CLEAR OPENING OF 24". ADJUST CASTINGS TO SLOPE LONGITUDINALLY WITH ROAD GRADES AS REQUIRED.
 16. CONTRACTOR SHALL MAINTAIN AT LEAST ONE SET OF AS-BUILT PLANS SHOWING ALL NEWLY CONSTRUCTED UTILITIES AND EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION. DRAWINGS SHALL INCLUDE VERTICAL AND HORIZONTAL INFORMATION EITHER BY FIELD SURVEYS ON THE APPROPRIATE STATE PLANE COORDINATE SYSTEM (HORIZONTAL DATUM) USED FOR THIS PROJECT OR BY FIELD MEASUREMENTS INCLUDING AT LEAST TWO DIMENSIONS FROM KNOWN SITE FEATURES/MONUMENTS TO EACH MANHOLE, CATCH BASIN, AND PRESSURE PIPING APPURTENANCE (VALVES, METERS, BACKFLOW DEVICE, HYDRANTS, ETC.)

EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) GENERAL NOTES

1. CONTRACTOR SHALL STRICTLY ADHERE TO THE EPSC PLAN AND/OR STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT. REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR ADDITIONAL REQUIREMENTS.
2. CONSTRUCT TEMPORARY EPSC MEASURES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING GRADING OPERATIONS.
3. ALL DRAINAGE STRUCTURES, PIPES WITHIN THE LIMITS OF CONSTRUCTION, AND DETENTION FACILITIES SHALL HAVE SEDIMENT REMOVED PRIOR TO FINAL ACCEPTANCE.
4. SILT BARRIERS AND SEDIMENT BASINS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN APPROXIMATELY 50% FILLED.
5. ALL GRADED AREAS NOT RECEIVING STONE STABILIZATION SHALL RECEIVE TEMPORARY SEEDING WITHIN 15 DAYS OF REACHING FINAL SUBGRADE ELEVATION.
6. ALL LOCATIONS OF TEMPORARY EPSC DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE OWNER OR ENGINEER.
7. WHEN THE EPSC DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE (IN THE OPINION OF THE OWNER OR ENGINEER), THEY SHALL BE REMOVED.
8. REPLACE DAMAGED AND WORN OUT SILT BARRIERS AS DIRECTED BY THE OWNER OR ENGINEER.
9. PROVIDE EROSION CONTROL MATTING (NAG75 OR EQUAL) TO SLOPES 3:1 OR GREATER. EROSION CONTROL MATTING SHALL BE PHOTODEGRADABLE OR BIODEGRADABLE UNLESS OTHERWISE SPECIFIED.
10. DEWATERING OF EXCAVATION AREA SHALL BE COMPLETED ONLY WITH SPECIFIED OR PRE-APPROVED PUMPING AND FILTERING EQUIPMENT. PUMPING RATE SHALL NOT EXCEED 80% OF THE RECOMMENDED MAXIMUM RATE BY SEDIMENT TANK / FILTER BAG MANUFACTURER. REFER TO THE STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES EROSION & SEDIMENT CONTROL HANDBOOK, LATEST EDITION, FOR ACCEPTABLE DEWATERING TECHNIQUES NOT SPECIFICALLY NOTED IN THIS PLAN SET.
11. THE ENGINEER, WHOSE SEAL IS AFFIXED TO THIS DOCUMENT, CERTIFIES THAT THESE PLANS HAVE BEEN PREPARED BY UNDER HIS/HER DIRECT SUPERVISION. THIS PROJECT IS PLANNED TO DISTURB MORE THAN ONE ACRE. IT THEREFORE FALLS UNDER THE MISSOURI STATE OPERATING PERMIT TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY. THE ENGINEER WILL ASSIST THE CONTRACTOR IN SUBMITTING THE 'NOTICE OF INTENT (NOI) TO CONSTRUCT' TO THE STATE AT LEAST 30 DAYS PRIOR TO BEGINNING LAND DISTURBANCE.



GreshamSmith.com

222 Second Avenue South
Suite 1400
Nashville, TN 37201

615.770.8100

Firestone
COMPLETE AUTO CARE™

3501 SW MARKET STREET
LEE'S SUMMIT, MISSOURI 64082

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Revision

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GENERAL NOTES

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