

AUSTIN HOMES INFRASTRUCTURE IMPROVEMENTS

KNOXVILLE, KNOX COUNTY, TN

PREPARED FOR:
KNOXVILLE'S COMMUNITY
DEVELOPMENT CORPORATION
MARCH 2020

LIST OF IMPROVEMENTS

THE FOLLOWING IMPROVEMENTS ARE REQUIRED AND PROPOSED.

S BELL STREET

PROPOSED REALIGNMENT
PAVEMENT RESURFACING AND NEW ASPHALT
CURB AND GUTTER
10' SIDEWALKS ON BOTH SIDES OF REALIGNED STREET
ON-STREET PARKING
WATER MAIN
STORM DRAINAGE
SANITARY SEWER

BURGE DRIVE

PROPOSED NEW ROAD
CURB AND GUTTER
SIDEWALKS ON BOTH SIDES OF STREET
ON-STREET PARKING
WATER MAIN
STORM DRAINAGE
SANITARY SEWER

ROAD A & ROAD B

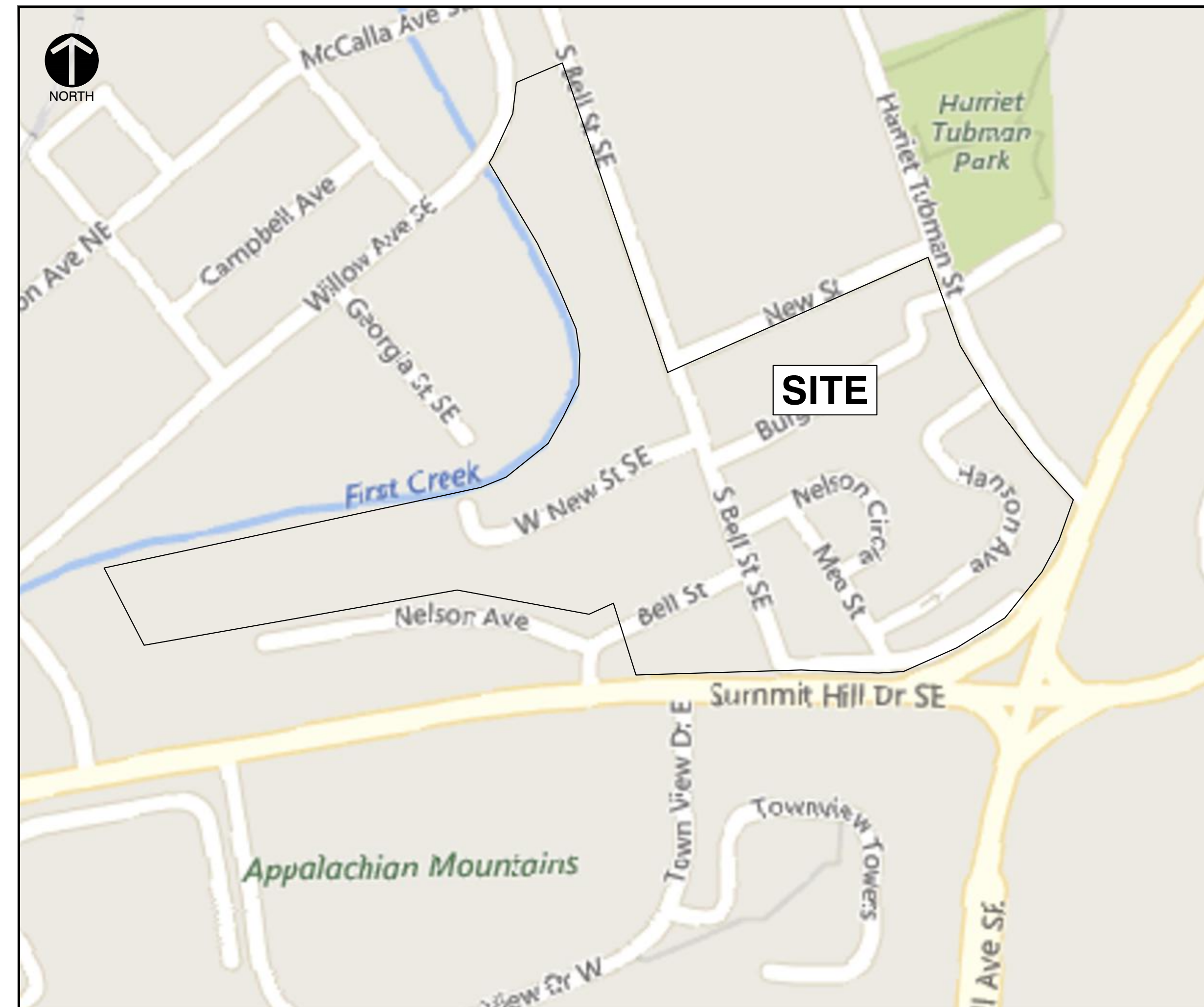
PROPOSED NEW BOULEVARD STYLE ROADS
22' CENTER MEDIAN
CURB AND GUTTER
6' SIDEWALKS ON BOTH SIDES OF STREET
ON-STREET PARKING
WATER MAIN
STORM DRAINAGE
SANITARY SEWER

HARRIET TUBMAN STREET

PROPOSED NEW 10' SIDEWALK ON WEST SIDE OF STREET

INTERSECTION OF MARTIN LUTHER KING JR AVE & E SUMMIT HILL DR

REMOVE EXISTING SLIP RAMP AND RESTRIPE EXISTING LANES
NEW 10' SIDEWALK TO CONNECT TO SIDEWALK ON HARRIET TUBMAN STREET
NEW 25' CURB RADIUS AT EDGE OF PROPOSED RIGHT TURN LANE



SITE LOCATION MAP

IMAGE TAKEN FROM BING MAPS
N.T.S.

PROPERTY INFORMATION

TOTAL ACREAGE: ± 23.0 ACRES
ZONING: R-2 RESIDENTIAL
PROPOSED USE: MULTI-FAMILY RESIDENTIAL
PARCEL ID'S: 095AJ007, 095HC003, 095AH025, 095GA013,
095GA014, 095HC001, 095HC002
ADDRESSES: 231 S. BELL ST., 205 OLD VINE AVE., 0 S. BELL
ST. 1124 WEST NEW ST., & 331 HARRIET TUBMAN ST.
CITY BLOCK: 12021, 07327

Sheet List Table

Sheet Number	Sheet Title
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C203	SITE LAYOUT PLAN
C300	SITE GRADING SHEET
C301	SITE GRADING PLAN
C302	SITE GRADING PLAN
C303	SITE GRADING PLAN
C400	SITE DRAINAGE SHEET
C401	SITE DRAINAGE PLAN
C402	SITE DRAINAGE PLAN
C403	SITE DRAINAGE PLAN
C404	SITE DRAINAGE PROFILES
C405	SITE DRAINAGE PROFILES
C500	SITE UTILITY SHEET
C501	SITE UTILITY PLAN
C502	SITE UTILITY PLAN
C503	SITE UTILITY PLAN
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C806	DETAILS
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C901	INTERIM EPSC PLAN
C901	FINAL EPSC PLAN
C903	EPSC DETAILS
C904	EPSC DETAILS

OWNER/DEVELOPER

KNOXVILLE'S COMMUNITY DEVELOPMENT CORPORATION
901 N. BROADWAY
KNOXVILLE, TN 37917
PH: (865) 403-1117

ENGINEER

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
2704 CHEROKEE FARM WAY, STE. 101
KNOXVILLE, TN 37920
PH: (865) 977-9997
CONTACT: MATT BRAZILLE, PE

UTILITY COMPANY

WATER & SANITARY SEWER SERVICE
KNOXVILLE UTILITIES BOARD
4505 MIDDLEBROOK PIKE
KNOXVILLE, TN 37921
865-524-2911

WATER AND SEWER SERVICES
ARE AVAILABLE TO ALL LOTS



REVISION RECORD

NO. DATE REVISION DESCRIPTION

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KNOXVILLE'S COMMUNITY DEVELOPMENT CORPORATION
AUSTIN HOMES
INFRASTRUCTURE PACKAGE
KNOXVILLE, KNOX COUNTY, TN

COVER
DATE: REVISED MARCH 2, 2020 DRAWN BY: CRJ/MWB/ASL
DWG SCALE: AS SHOWN CHECKED BY: MWB
PROJECT NO.: 184-594
APPROVED BY: GHP

**NOT FOR
CONSTRUCTION**

DRAWING NO.:
C000

SITE GENERAL NOTES

- EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 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.
- THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND OWNER'S REPRESENTATIVE FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
- ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.
- CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
- EXISTING SITE INFORMATION/TOPOGRAPHIC SURVEY WAS COMPILED FROM SURVEY PREPARED BY CEC, INC., DATED OCTOBER 22, 2019.
- BEFORE INSTALLATION OF STORM OR SANITARY SEWER, OR OTHER UTILITY, THE CONTRACTOR SHALL VERIFY ALL CROSSINGS, BY EXCAVATION WHERE NECESSARY, AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT HE IS NOT NOTIFIED OF DESIGN CONFLICTS PRIOR TO CONSTRUCTION.

LAYOUT GENERAL NOTES

- THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. RELOCATE EXISTING UTILITIES AS INDICATED, OR AS NECESSARY FOR CONSTRUCTION.
- PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES, INCLUDING IRRIGATION SLEEVING, PRIOR TO INSTALLATION OF PAVED SURFACES.
- THE CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN IN ACCORDANCE WITH THE SPECIFICATIONS.
- SITE WORK CONCRETE WALKS AND PADS SHALL HAVE A BROOM FINISH TO ALL SURFACES. SITE WORK CONCRETE SHALL BE CLASS "A" (4,000 PSI @ 28 DAYS) UNLESS OTHERWISE NOTED.
- ALL DAMAGE TO EXISTING PAVEMENT TO REMAIN WHICH RESULTS FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.
- SITE DIMENSIONS SHOWN ARE TO THE FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- COORDINATES ARE FOR BUILDING COLUMNS, EXTERIOR BUILDING WALL, CENTER OF DRIVEWAYS, CENTER OF SANITARY SEWER MANHOLES, AND CENTER AT FACE OF CURB FOR DRAIN INLETS, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL MAINTAIN ONE SET OF AS-BUILT/ RECORD DRAWINGS ON THE JOB SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS AND LOCATIONS OF UTILITY SERVICE ENTRY LOCATIONS AND PRECISE BUILDING DIMENSIONS.
- THIS SITE LAYOUT IS SPECIFIC TO THE APPROVALS NECESSARY FOR THE CONSTRUCTION IN ACCORDANCE WITH THE CITY OF KNOXVILLE. NO CHANGES TO THE SITE LAYOUT ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. CHANGES MADE TO THE SITE LAYOUT WITHOUT APPROVAL IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CHANGES INCLUDE BUT ARE NOT LIMITED TO: INCREASED IMPERVIOUS PAVEMENT, ADDITION/DELETION OF PARKING SPACES, MOVEMENT OF CURB LINES, CHANGES TO DRAINAGE STRUCTURES AND PATTERNS, LANDSCAPING, ETC.

GRADING GENERAL NOTES

- ALL PROPOSED GRADES SHOWN ARE FINAL GRADES, TOP OF GROUND LEVEL, OR TOP OF PAVEMENT, OR GRATE ELEVATION AT THE DRAWDOWN POINT UNLESS INDICATED OTHERWISE.
- THE COMPACTION REQUIREMENTS FOR THE PROJECT SHALL BE 100% OF STANDARD PROCTOR UNDER ALL ROADS AND 98% OF STANDARD PROCTOR FOR ALL OTHER AREAS OF THE SITE.
- REFER TO AND FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED FOR OWNER. OWNER CAN PROVIDE A COPY. THE CONTRACTOR SHALL ENGAGE A GEOTECHNICAL ENGINEER TO MONITOR EARTHWORK ACTIVITIES AND ADHERE TO THEIR RECOMMENDATIONS DURING CONSTRUCTION.
- CONTRACTOR SHALL STRICTLY ADHERE TO THE EROSION CONTROL PLAN PREPARED FOR THIS PROJECT. THE EROSION CONTROL DEVICES SHALL BE THE FIRST ITEM OF CONSTRUCTION AND SHALL REMAIN FUNCTIONAL UNTIL THE SITE IMPROVEMENTS ARE ACCEPTED BY THE OWNER. SITE GRADING MAY COMMENCE AFTER ALL SEDIMENT CONTROL STRUCTURES ARE INSTALLED IN ACCORDANCE WITH CONSTRUCTION DRAWINGS AND CONTROLS ARE CERTIFIED BY CITY OF KNOXVILLE.
- EARTHWORK SHALL INCLUDE CLEARING AND GRUBBING, STRIPPING AND STOCKPILING TOPSOIL, MASS GRADING, EXCAVATION, FILLING, UNDER CUT AND REPLACEMENT, IF REQUIRED, AND COMPACTION.
- CONTRACTOR TO REFILL UNDERCUT AREAS WITH SUITABLE MATERIAL AND COMPACT AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- PLACE TOPSOIL OVER THE SUBGRADE OF UNPAVED, DISTURBED AREAS TO A DEPTH OF 4" MINIMUM.
- PAVEMENT SLOPES ACROSS ACCESSIBLE PARKING STALLS AND ADJOINING ACCESS AISLES SHALL BE MAXIMUM 2%.
- EROSION CONTROL MATTING SHOULD BE USED ON SLOPES OF 3:1 OR GREATER.
- ALL AREAS NOT PAVED SHALL BE STABILIZED IN ACCORDANCE WITH THE EROSION CONTROL PLAN, UNLESS NOTED OTHERWISE.
- ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFF-SITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
- EXISTING CONTOURS VERTICAL DATUM REFERENCE IS NAVD88.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION, AND REPORT ALL DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
- CONTRACTOR TO ISSUE ALL PROPER NOTIFICATIONS TO REGULATORY AGENCIES AS REQUIRED BY LAW AND COMPLY WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES, AND SECURE ALL PERMITS PRIOR TO ANY LAND DISTURBANCE ACTIVITY.
- THE PROPOSED ELEVATIONS AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE. PROPER ADJUSTMENT SHOULD BE MADE BY THE CONTRACTOR FOR SUBGRADE.
- GRADE ALL AREAS AROUND BUILDINGS FOR POSITIVE DRAINAGE AWAY FROM BUILDINGS.
- THE TOPSOIL STOCKPILE SHALL BE DOZER COMPACTED. THE STOCKPILE SHALL BE SEEDED.

DRAINAGE GENERAL NOTES

- DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL NEW STORMWATER MANAGEMENT FACILITIES CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION, INSPECTION AND APPROVAL OF THE STORM DRAINAGE SYSTEM CONSTRUCTION.
- ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
- ANY WORK PERFORMED IN THE LOCAL OR STATE RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL OR STATE REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.
- STORM PIPE MATERIAL OPTIONS ARE AS INDICATED IN THE DRAINAGE PLAN.
- FOR CONSTRUCTION DETAILS SEE C800 SHEETS.
- ALL PIPES UNDER PAVEMENT SHALL BE BACKFILLED TO TOP OF SUBGRADE WITH CRUSHED STONE.
- STONE BEDDING AND BACKFILL SHALL BE DONE IN STRICT COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- DRAINS SHALL BE INSTALLED IN COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- DRAIN BASINS SHALL BE AS NOTED ON THE DRAINAGE PLAN.
- DETENTION IS NOT REQUIRED DUE TO SITE'S PROXIMITY TO FIRST CREEK.

UTILITY GENERAL NOTES

- ALL PROPOSED UTILITY LINES AND EXTENSIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE KUB'S SPECIFICATIONS. CONTRACTOR SHALL COORDINATE UTILITY DISCONNECTIONS WITH THE APPROPRIATE AGENCY.
- THE CONTRACTOR IS PARTICULARLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES SHOWN HEREON IS BASED ON TOPOGRAPHIC SURVEYS AND RECORD DRAWINGS. THE CONTRACTOR SHALL NOT RELY UPON THIS INFORMATION AS BEING EXACT OR COMPLETE. SHOULD UNCHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE FOR INSTRUCTIONS. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION AND REQUEST FIELD VERIFICATION OF UTILITY LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE EXISTING UTILITIES CONFLICTING WITH IMPROVEMENTS SHOWN HEREON IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- MAINTAIN MINIMUM 10-FOOT HORIZONTAL AND 18-INCH MINIMUM VERTICAL SEPARATION BETWEEN SANITARY SEWER AND WATER SUPPLY LINE, UNLESS OTHERWISE INDICATED.
- 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 PAVEMENT CONSTRUCTION.
- ALL TRENCH SPOILS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFF-SITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
- ADJUST ALL EXISTING UTILITY SURFACE FEATURES INCLUDING BUT NOT LIMITED TO CASTINGS, VALVE BOXES, PEDESTALS, CLEANOUTS, ETC. TO MATCH PROPOSED FINISHED GRADES, UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF ALL IMPROVEMENTS. INCLUDE AT LEAST TWO DIMENSIONS TO EACH VALVE AND MANHOLE FROM KNOWN SITE FEATURES. DRAWINGS SHALL INCLUDE HORIZONTAL AND VERTICAL INFORMATION ON ALL NEW UTILITIES AS WELL AS EXISTING UTILITIES ENCOUNTERED.
- UTILITY PIPE MATERIAL OPTIONS ARE AS INDICATED IN KUB'S SPECIFICATIONS.

SANITARY SEWER CONSTRUCTION NOTES

- ALL PROPOSED UTILITY LINES AND EXTENSIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE KUB'S SPECIFICATIONS. CONTRACTOR SHALL COORDINATE UTILITY CONNECTIONS WITH THE APPROPRIATE AGENCY AND KDCD.
- ALL UTILITY FEES WILL BE THE RESPONSIBILITY OF THE OWNER. THE CONTRACTOR SHALL COORDINATE ALL CONNECTIONS AND TIMING WITH THE OWNER TO FACILITATE TIMELY INSTALLATION OF ALL UTILITY LINES.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION.
- ALL SANITARY SEWER PIPE SHALL BE INSTALLED IN THE PRESENCE OF THE KNOXVILLE UTILITY BOARD'S REPRESENTATIVE.
- UTILITIES SHALL BE INSTALLED AFTER GRADING HAS BEEN COMPLETED AND APPROVED BEFORE ANY PAVEMENT IS INSTALLED.
- TRENCH DESIGN AND SAFETY FOR PIPELINE CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM WITH ALL APPLICABLE LOCAL, STATE AND OSHA REGULATIONS.
- REQUIREMENTS FOR PROPER FILL OPERATIONS SHALL MEET OR EXCEED KUB STANDARDS.
- AFTER COMPLETING EACH SECTION OF THE SANITARY SEWER, ALL DEBRIS AND CONSTRUCTION MATERIALS SHALL BE REMOVED FROM THE WORK SITE AND THE DISTURBED GROUND SURFACE OF THE PROJECT SITE SHALL BE SMOOTHLY GRADED.
- THE CONTRACTOR SHALL OBTAIN PLASTIC WARNING TAPE FOR WASTEWATER MAINS AND BURY IT ONE FOOT ABOVE THE ENTIRE LENGTH OF EACH SERVICE LINE.
- LASERS SHALL BE USED TO INSTALL ALL WASTEWATER LINES.
- SERVICE LATERALS SHALL BE SDR26 PVC.
- SANITARY SEWER MAIN INSTALLATION MUST BE INSPECTED BY THE KNOXVILLE UTILITY BOARD. CONTACT INSPECTORS AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL POSSESS A VALID STATE OF TENNESSEE MUNICIPAL UTILITY LICENSE FOR CONSTRUCTION OF WASTEWATER MAINS.
- A RUBBER BOOT CONNECTOR SHALL BE PROVIDED FOR EACH WASTEWATER MAIN OR LATERAL CONNECTING TO A MANHOLE. EACH TAP TO AN EXISTING MANHOLE SHALL BE MECHANICALLY CORED.
- KUB MANHOLE AND MAIN LINE ABANDONMENT PROCEDURES:
 - CUT ALL PIPES ON THE OUTSIDE OF THE MANHOLE, AND PLUG WITH BRICK AND MORTAR.
 - BRICK AND MORTAR ALL PIPE OPENINGS INSIDE THE MANHOLE INCLUDING DROP CONNECTIONS AND LATERALS.
 - REMOVE THE MANHOLE RING, LID, AND GRADE RINGS. DISPOSAL OF ALL MANHOLE MATERIALS SHALL BE AT THE DISCRETION OF THE OWNER. PRECAST CONES AND RISERS SHALL ALSO BE REMOVED IF THEY ARE EXPOSED.
 - MANHOLES SHALL BE FILLED WITH BACKFILL MATERIAL AS SPECIFIED IN KUB SECTION 02321, UNCLASSIFIED EXCAVATION AND BACKFILLING FOR UTILITIES.
 - LINES TO BE ABANDONED THAT ENTER AN EXISTING MANHOLE TO REMAIN SHALL BE CUT ON THE OUTSIDE OF THE MANHOLE AND THE INLETS SHALL BE PLUGGED WITH BRICK AND MORTAR TO ENSURE A WATER-TIGHT STRUCTURE.
 - ABANDONED PIPE UNDERNEATH EXISTING/PROPOSED BUILDINGS SHALL BE FILLED WITH FLOWABLE FILL IF NOT COMPLETELY REMOVED FROM THE GROUND.

WATER SUPPLY CONSTRUCTION NOTES

- ALL PROPOSED UTILITY LINES AND EXTENSIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE KNOXVILLE UTILITY BOARD SPECIFICATIONS. CONTRACTOR SHALL COORDINATE UTILITY CONNECTIONS WITH THE APPROPRIATE AGENCY AND KDCD.
- WATER MAIN INSTALLATION SHALL BE INSPECTED BY THE KNOXVILLE UTILITY BOARD. CONTACT INSPECTORS AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL POSSESS A VALID STATE OF TENNESSEE MUNICIPAL UTILITY LICENSE FOR CONSTRUCTION OF WATER MAINS.
- CONTRACTOR SHALL STERILIZE WATER MAINS AFTER INSTALLATION AND TESTING ARE COMPLETE.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION.
- REQUIREMENTS FOR PROPER TRENCH AND BACKFILL OPERATIONS SHALL MEET OR EXCEED CITY OF KNOXVILLE STANDARDS.
- PROPOSED WATER MAINS SHALL HAVE 36 INCH MINIMUM DEPTH OF COVER.
- WATER SERVICE LINES SHALL BE BURIED AT A MINIMUM DEPTH OF 24 INCHES TO PREVENT FREEZING.
- UTILITIES SHALL BE INSTALLED AFTER GRADING HAS BEEN COMPLETED AND APPROVED BEFORE ANY PAVEMENT IS INSTALLED.
- AFTER COMPLETING EACH SECTION OF THE WATER SUPPLY, ALL DEBRIS AND CONSTRUCTION MATERIALS SHALL BE REMOVED FROM THE WORK SITE AND THE DISTURBED GROUND SURFACE OF THE PROJECT SITE SHALL BE SMOOTHLY GRADED.
- ALL FIRE AND DOMESTIC WATER SUPPLY MATERIAL TO BE SDR-21 PVC.

EXISTING SITE DATA:
 TOTAL EXISTING SITE ACREAGE: 24.78 ACRES *
 TOTAL EXISTING IMPERVIOUS AREA: 2.19 ACRES*

PROPOSED SITE DATA:
 TOTAL CALCULATED PROPOSED SITE ACREAGE: 28.85 ACRES
 TOTAL DISTURBED AREA: 19.25 ACRES
 TOTAL PROPOSED IMPERVIOUS AREA: 3.02 ACRES

* THE EXISTING SITE DATA SHOWN ABOVE REFERS TO THE EXISTING SITE LAYOUT PRIOR TO DEMOLITION, WHICH WAS COMPLETED UNDER A SEPARATE CONTRACT.

REVISION RECORD

NO. DATE DESCRIPTION

CEE
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KNOXVILLE'S COMMUNITY DEVELOPMENT CORPORATION
 AUSTIN HOMES
 INFRASTRUCTURE PACKAGE
 KNOXVILLE, KNOX COUNTY, TN

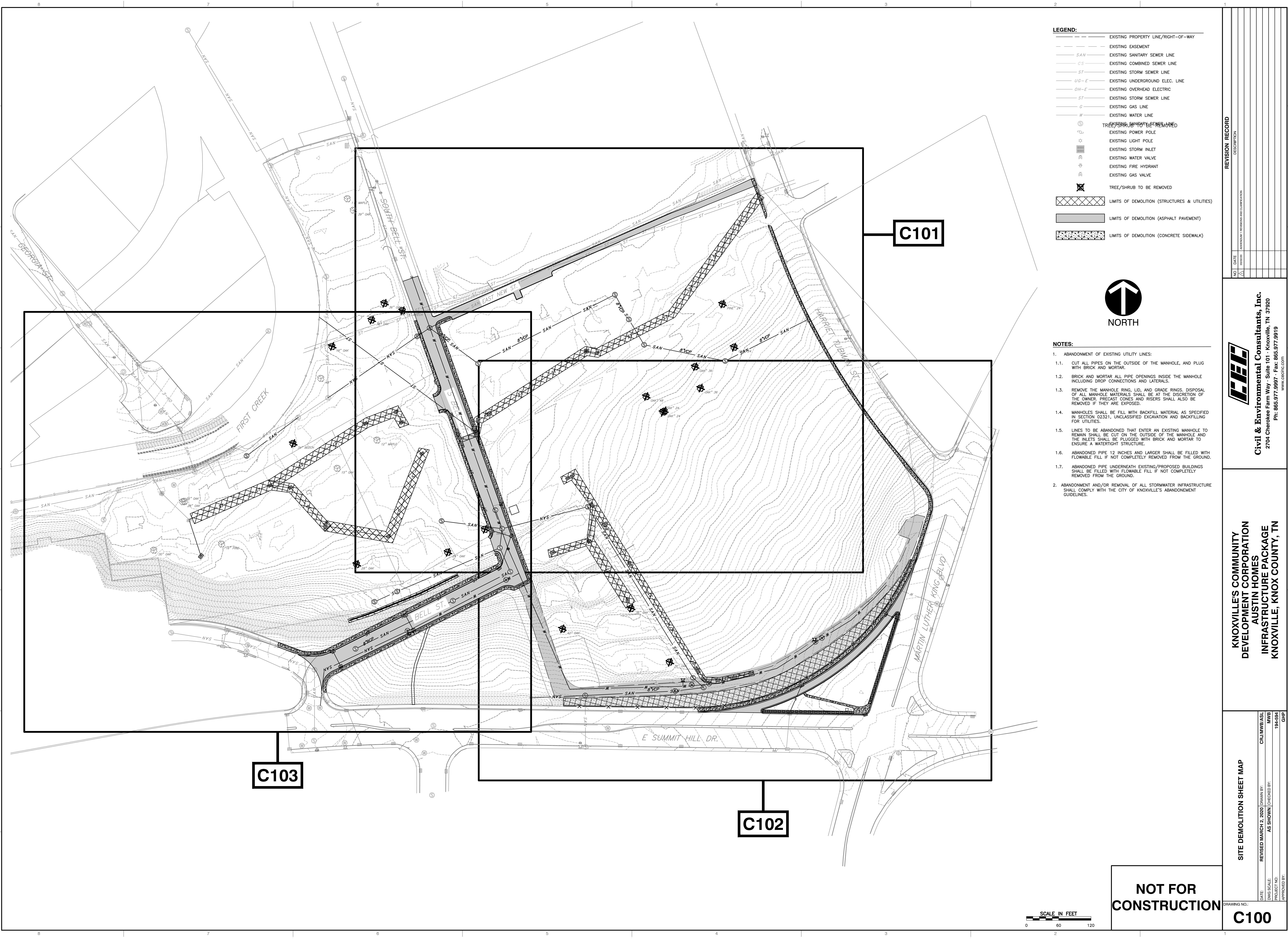
GENERAL NOTES

DATE: FEBRUARY 12, 2020
 DRAWN BY: CRJ/NWJ/ABL
 DWG SCALE: 1/8"=1'-0"
 PROJECT NO.: 194-594
 CHECKED BY: GHP
 APPROVED BY:

NOT FOR CONSTRUCTION

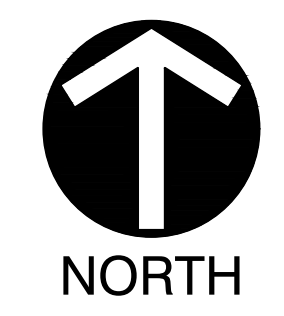
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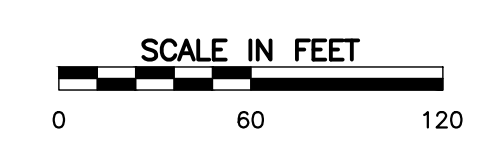


LEGEND:

---	EXISTING PROPERTY LINE/RIGHT-OF-WAY
- - -	EXISTING EASEMENT
SAN	EXISTING SANITARY SEWER LINE
CS	EXISTING COMBINED SEWER LINE
ST	EXISTING STORM SEWER LINE
UG-E	EXISTING UNDERGROUND ELEC. LINE
OH-E	EXISTING OVERHEAD ELECTRIC
ST	EXISTING STORM SEWER LINE
G	EXISTING GAS LINE
W	EXISTING WATER LINE
⊙	TREES/SHRUBS TO BE REMOVED
⊙	EXISTING POWER POLE
⊙	EXISTING LIGHT POLE
⊙	EXISTING STORM INLET
⊙	EXISTING WATER VALVE
⊙	EXISTING FIRE HYDRANT
⊙	EXISTING GAS VALVE
⊗	TREE/SHRUB TO BE REMOVED
▨	LIMITS OF DEMOLITION (STRUCTURES & UTILITIES)
▨	LIMITS OF DEMOLITION (ASPHALT PAVEMENT)
▨	LIMITS OF DEMOLITION (CONCRETE SIDEWALK)



- NOTES:**
- ABANDONMENT OF EXISTING UTILITY LINES:
 - CUT ALL PIPES ON THE OUTSIDE OF THE MANHOLE, AND PLUG WITH BRICK AND MORTAR.
 - BRICK AND MORTAR ALL PIPE OPENINGS INSIDE THE MANHOLE INCLUDING DROP CONNECTIONS AND LATERALS.
 - REMOVE THE MANHOLE RING, LID, AND GRADE RINGS. DISPOSAL OF ALL MANHOLE MATERIALS SHALL BE AT THE DISCRETION OF THE OWNER. PRECAST CONES AND RISERS SHALL ALSO BE REMOVED IF THEY ARE EXPOSED.
 - MANHOLES SHALL BE FILL WITH BACKFILL MATERIAL AS SPECIFIED IN SECTION 02321, UNCLASSIFIED EXCAVATION AND BACKFILLING FOR UTILITIES.
 - PIPES TO BE ABANDONED THAT ENTER AN EXISTING MANHOLE TO REMAIN SHALL BE CUT ON THE OUTSIDE OF THE MANHOLE AND THE INLETS SHALL BE FLOUGED WITH BRICK AND MORTAR TO ENSURE A WATERTIGHT STRUCTURE.
 - ABANDONED PIPE 12 INCHES AND LARGER SHALL BE FILLED WITH FLOWABLE FILL IF NOT COMPLETELY REMOVED FROM THE GROUND.
 - ABANDONED PIPE UNDERNEATH EXISTING/PROPOSED BUILDINGS SHALL BE FILLED WITH FLOWABLE FILL IF NOT COMPLETELY REMOVED FROM THE GROUND.
 - ABANDONMENT AND/OR REMOVAL OF ALL STORMWATER INFRASTRUCTURE SHALL COMPLY WITH THE CITY OF KNOXVILLE'S ABANDONMENT GUIDELINES.



NOT FOR CONSTRUCTION

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NO.	DATE	DESCRIPTION

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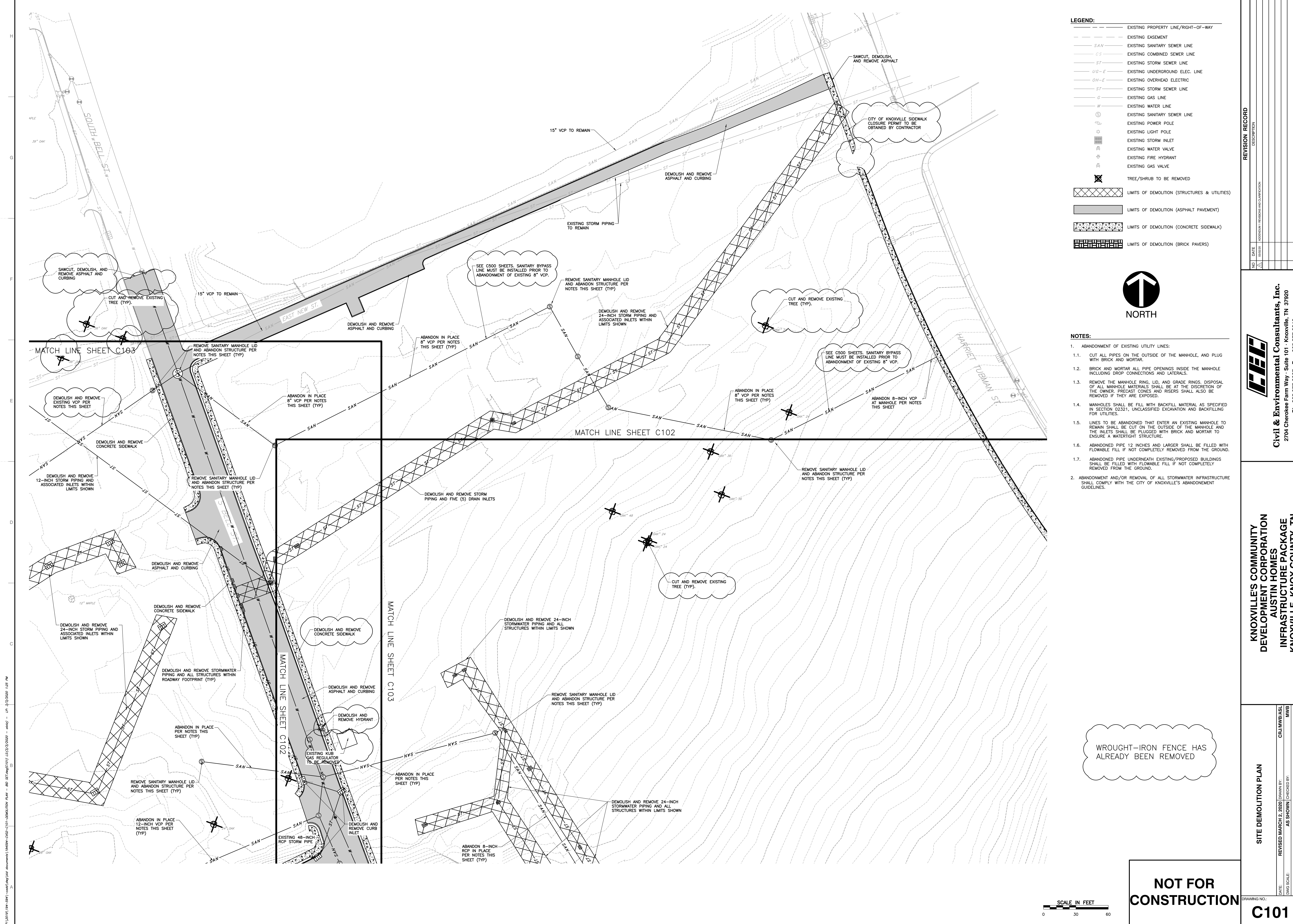
**KNOXVILLE COMMUNITY DEVELOPMENT CORPORATION
 AUSTIN HOMES
 INFRASTRUCTURE PACKAGE
 KNOXVILLE, KNOX COUNTY, TN**

SITE DEMOLITION SHEET MAP

DATE: REVISED MARCH 2, 2020 | DRAWN BY: CRJ/MMB/ASL
 DWG SCALE: AS SHOWN | CHECKED BY: MMB
 PROJECT NO.: 194-594
 APPROVED BY: GHP

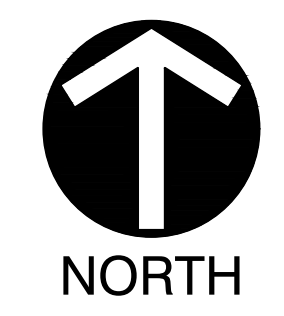
DRAWING NO.: **C100**

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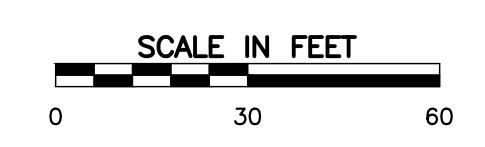
LEGEND:

---	EXISTING PROPERTY LINE/RIGHT-OF-WAY
---	EXISTING EASEMENT
SAN	EXISTING SANITARY SEWER LINE
CS	EXISTING COMBINED SEWER LINE
ST	EXISTING STORM SEWER LINE
UG-E	EXISTING UNDERGROUND ELEC. LINE
OH-E	EXISTING OVERHEAD ELECTRIC
ST	EXISTING STORM SEWER LINE
G	EXISTING GAS LINE
W	EXISTING WATER LINE
SAN	EXISTING SANITARY SEWER LINE
⊙	EXISTING POWER POLE
⊙	EXISTING LIGHT POLE
⊙	EXISTING STORM INLET
⊙	EXISTING WATER VALVE
⊙	EXISTING FIRE HYDRANT
⊙	EXISTING GAS VALVE
⊙	TREE/SHRUB TO BE REMOVED
[Hatched Box]	LIMITS OF DEMOLITION (STRUCTURES & UTILITIES)
[Solid Grey Box]	LIMITS OF DEMOLITION (ASPHALT PAVEMENT)
[Dotted Box]	LIMITS OF DEMOLITION (CONCRETE SIDEWALK)
[Brick Pattern Box]	LIMITS OF DEMOLITION (BRICK PAVERS)



- NOTES:**
- ABANDONMENT OF EXISTING UTILITY LINES:
 - CUT ALL PIPES ON THE OUTSIDE OF THE MANHOLE, AND PLUG WITH BRICK AND MORTAR.
 - BRICK AND MORTAR ALL PIPE OPENINGS INSIDE THE MANHOLE INCLUDING DROP CONNECTIONS AND LATERALS.
 - REMOVE THE MANHOLE RING, LID, AND GRADE RINGS. DISPOSAL OF ALL MANHOLE MATERIALS SHALL BE AT THE DISCRETION OF THE OWNER. PRECAST CONES AND RISERS SHALL ALSO BE REMOVED IF THEY ARE EXPOSED.
 - MANHOLES SHALL BE FILL WITH BACKFILL MATERIAL AS SPECIFIED IN SECTION 02321, UNCLASSIFIED EXCAVATION AND BACKFILLING FOR UTILITIES.
 - PIPES TO BE ABANDONED THAT ENTER AN EXISTING MANHOLE TO REMAIN SHALL BE CUT ON THE OUTSIDE OF THE MANHOLE AND THE INLETS SHALL BE PLUGGED WITH BRICK AND MORTAR TO ENSURE A WATERTIGHT STRUCTURE.
 - ABANDONED PIPE 12 INCHES AND LARGER SHALL BE FILLED WITH FLOWABLE FILL IF NOT COMPLETELY REMOVED FROM THE GROUND.
 - ABANDONED PIPE UNDERNEATH EXISTING/PROPOSED BUILDINGS SHALL BE FILLED WITH FLOWABLE FILL IF NOT COMPLETELY REMOVED FROM THE GROUND.
 - ABANDONMENT AND/OR REMOVAL OF ALL STORMWATER INFRASTRUCTURE SHALL COMPLY WITH THE CITY OF KNOXVILLE'S ABANDONMENT GUIDELINES.

WROUGHT-IRON FENCE HAS ALREADY BEEN REMOVED



NOT FOR CONSTRUCTION

REVISION RECORD

NO.	DATE	DESCRIPTION

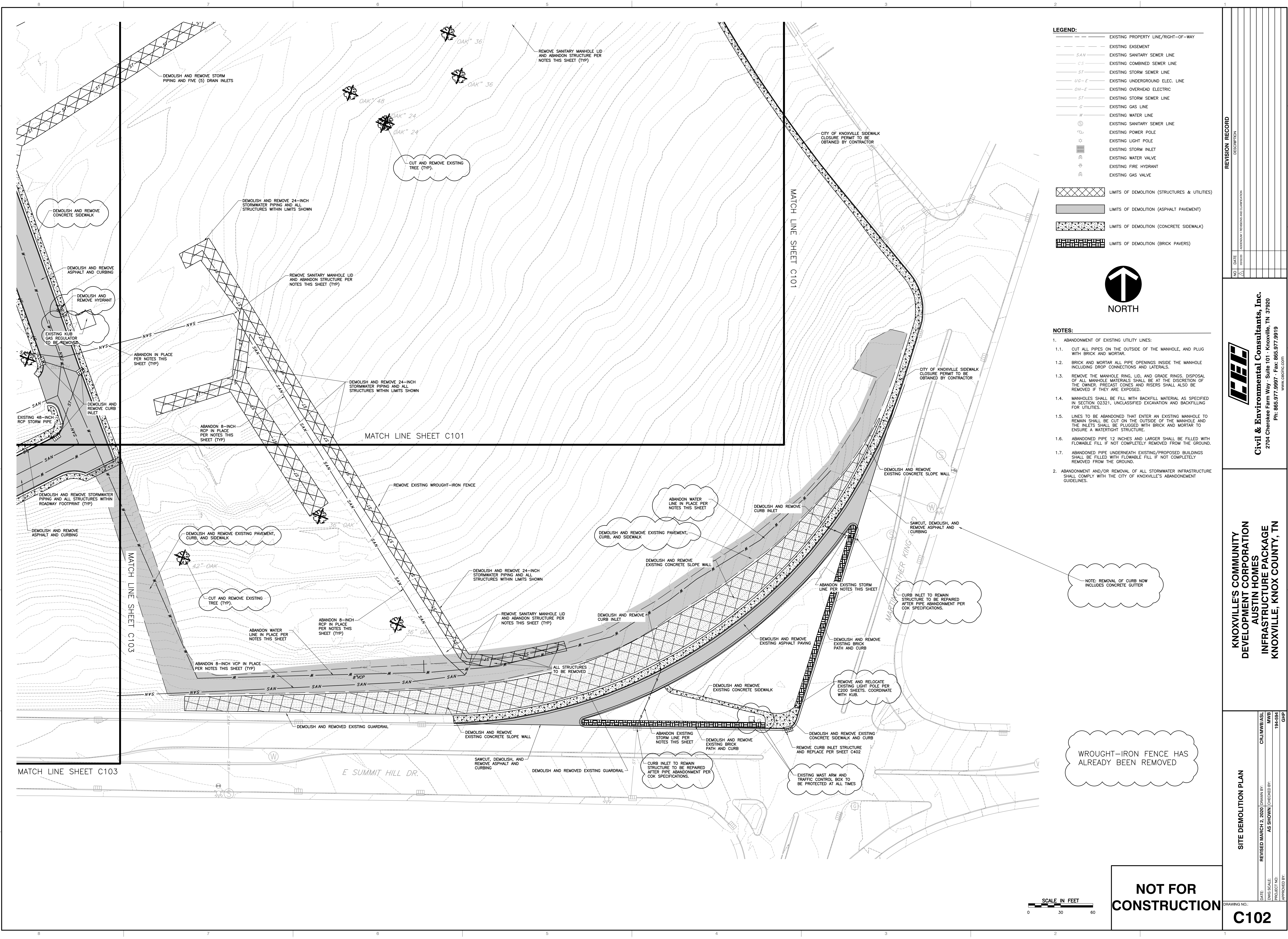
Civil & Environmental Consultants, Inc.
 2704 Cherokee Farm Way - Suite 101 - Knoxville, TN 37920
 Ph: 865.977.9997 - Fax: 865.977.9919
 www.cesinc.com

**KNOXVILLE COMMUNITY DEVELOPMENT CORPORATION
 AUSTIN HOMES
 INFRASTRUCTURE PACKAGE
 KNOXVILLE, KNOX COUNTY, TN**

SITE DEMOLITION PLAN

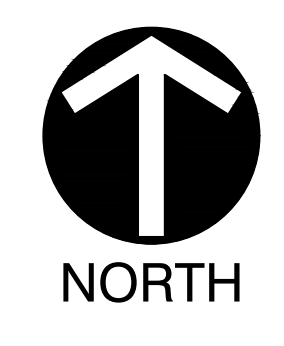
DATE:	REVISED MARCH 2, 2020	DRAWN BY:	CRJ/MWB/ASL
DWG SCALE:	AS SHOWN	CHECKED BY:	MWB
PROJECT NO.:	194-594	APPROVED BY:	GHP
DRAWING NO.:	C101		

P:\2019\194-594\194-594.dwg (194-594-002-C101-DEMOLITION PLAN - 80 SET) (1/17/2020 1:28 PM) - LP: 1/17/2020 1:28 PM



LEGEND:

---	EXISTING PROPERTY LINE/RIGHT-OF-WAY
---	EXISTING EASEMENT
SAN	EXISTING SANITARY SEWER LINE
CS	EXISTING COMBINED SEWER LINE
ST	EXISTING STORM SEWER LINE
UG-E	EXISTING UNDERGROUND ELEC. LINE
OH-E	EXISTING OVERHEAD ELECTRIC
ST	EXISTING STORM SEWER LINE
G	EXISTING GAS LINE
W	EXISTING WATER LINE
---	EXISTING SANITARY SEWER LINE
⊙	EXISTING POWER POLE
⊙	EXISTING LIGHT POLE
⊙	EXISTING STORM INLET
⊙	EXISTING WATER VALVE
⊙	EXISTING FIRE HYDRANT
⊙	EXISTING GAS VALVE
▨	LIMITS OF DEMOLITION (STRUCTURES & UTILITIES)
▨	LIMITS OF DEMOLITION (ASPHALT PAVEMENT)
▨	LIMITS OF DEMOLITION (CONCRETE SIDEWALK)
▨	LIMITS OF DEMOLITION (BRICK PAVERS)



- NOTES:**
1. ABANDONMENT OF EXISTING UTILITY LINES:
 - 1.1. CUT ALL PIPES ON THE OUTSIDE OF THE MANHOLE, AND PLUG WITH BRICK AND MORTAR.
 - 1.2. BRICK AND MORTAR ALL PIPE OPENINGS INSIDE THE MANHOLE INCLUDING DROP CONNECTIONS AND LATERALS.
 - 1.3. REMOVE THE MANHOLE RING, LID, AND GRADE RINGS. DISPOSAL OF ALL MANHOLE MATERIALS SHALL BE AT THE DISCRETION OF THE OWNER. PRECAST CONES AND RISERS SHALL ALSO BE REMOVED IF THEY ARE EXPOSED.
 - 1.4. MANHOLES SHALL BE FILL WITH BACKFILL MATERIAL AS SPECIFIED IN SECTION 02321, UNCLASSIFIED EXCAVATION AND BACKFILLING FOR UTILITIES.
 - 1.5. LINES TO BE ABANDONED THAT ENTER AN EXISTING MANHOLE TO REMAIN SHALL BE CUT ON THE OUTSIDE OF THE MANHOLE AND THE INLETS SHALL BE PLUGGED WITH BRICK AND MORTAR TO ENSURE A WATERTIGHT STRUCTURE.
 - 1.6. ABANDONED PIPE 12 INCHES AND LARGER SHALL BE FILLED WITH FLOWABLE FILL IF NOT COMPLETELY REMOVED FROM THE GROUND.
 - 1.7. ABANDONED PIPE UNDERNEATH EXISTING/PROPOSED BUILDINGS SHALL BE FILLED WITH FLOWABLE FILL IF NOT COMPLETELY REMOVED FROM THE GROUND.
 2. ABANDONMENT AND/OR REMOVAL OF ALL STORMWATER INFRASTRUCTURE SHALL COMPLY WITH THE CITY OF KNOXVILLE'S ABANDONMENT GUIDELINES.

REVISION RECORD

NO.	DATE	DESCRIPTION

Civil & Environmental Consultants, Inc.
 2704 Cherokee Farm Way - Suite 101 - Knoxville, TN 37920
 Ph: 865.977.9997 - Fax: 865.977.9919
 www.cencinc.com

**KNOXVILLE COMMUNITY DEVELOPMENT CORPORATION
 AUSTIN HOMES
 INFRASTRUCTURE PACKAGE
 KNOXVILLE, KNOX COUNTY, TN**

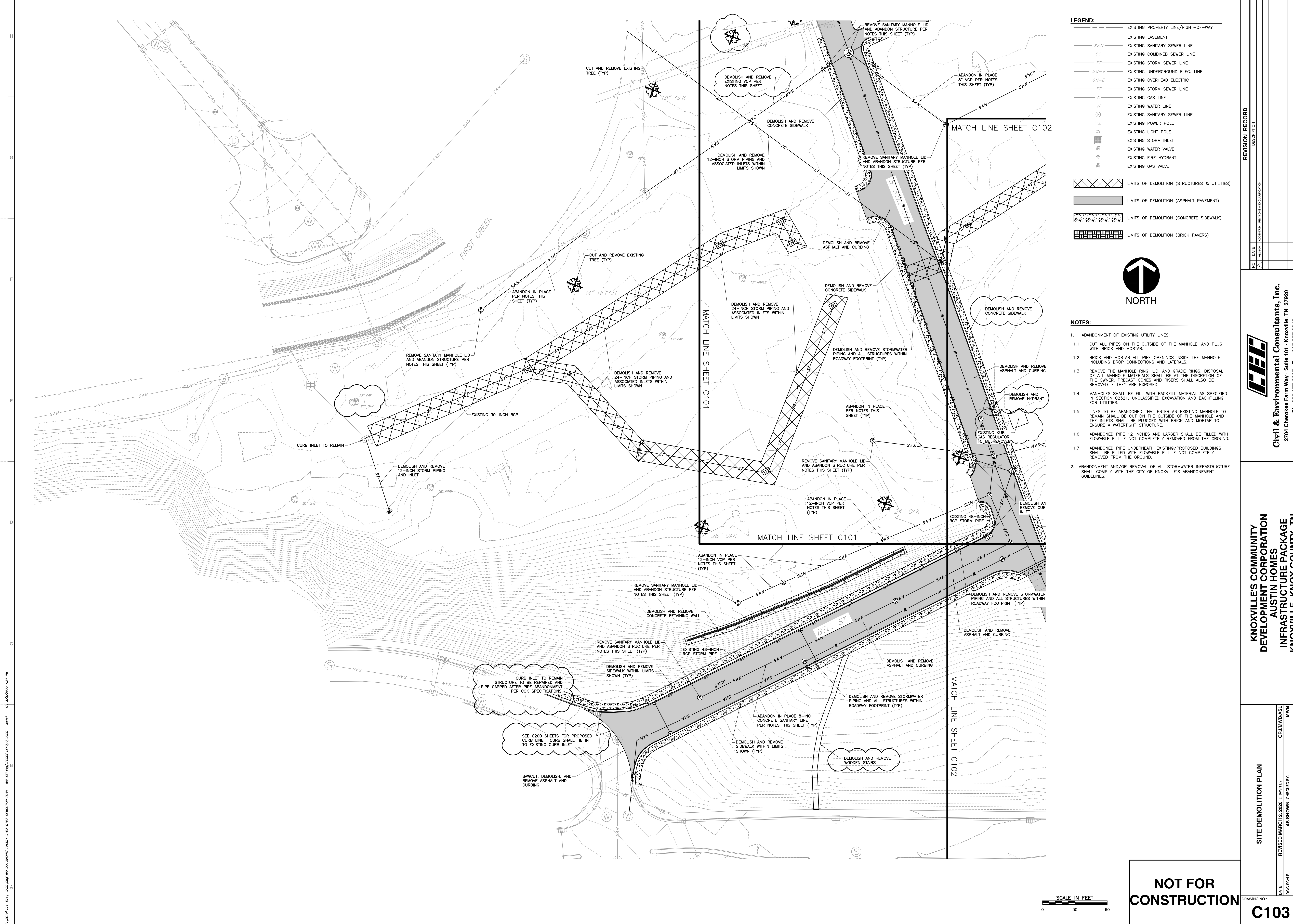
SITE DEMOLITION PLAN
 REVISED MARCH 2, 2020 DRAWN BY: CRJ/MMB/ASL
 DATE: MARCH 2, 2020
 DWG SCALE: AS SHOWN CHECKED BY: MMB
 PROJECT NO: 194-594
 APPROVED BY: GHP

NOT FOR CONSTRUCTION



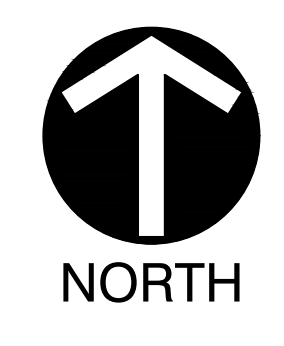
C102

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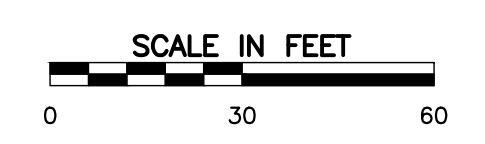


LEGEND:

---	EXISTING PROPERTY LINE/RIGHT-OF-WAY
---	EXISTING EASEMENT
SAN	EXISTING SANITARY SEWER LINE
CS	EXISTING COMBINED SEWER LINE
ST	EXISTING STORM SEWER LINE
UG-E	EXISTING UNDERGROUND ELEC. LINE
OH-E	EXISTING OVERHEAD ELECTRIC
ST	EXISTING STORM SEWER LINE
G	EXISTING GAS LINE
W	EXISTING WATER LINE
W	EXISTING SANITARY SEWER LINE
⊙	EXISTING POWER POLE
⊙	EXISTING LIGHT POLE
⊙	EXISTING STORM INLET
⊙	EXISTING WATER VALVE
⊙	EXISTING FIRE HYDRANT
⊙	EXISTING GAS VALVE
[Hatched Box]	LIMITS OF DEMOLITION (STRUCTURES & UTILITIES)
[Solid Grey Box]	LIMITS OF DEMOLITION (ASPHALT PAVEMENT)
[Dotted Box]	LIMITS OF DEMOLITION (CONCRETE SIDEWALK)
[Brick Pattern Box]	LIMITS OF DEMOLITION (BRICK PAVERS)



- NOTES:**
- ABANDONMENT OF EXISTING UTILITY LINES:
 - CUT ALL PIPES ON THE OUTSIDE OF THE MANHOLE, AND PLUG WITH BRICK AND MORTAR.
 - BRICK AND MORTAR ALL PIPE OPENINGS INSIDE THE MANHOLE INCLUDING DROP CONNECTIONS AND LATERALS.
 - REMOVE THE MANHOLE RING, LID, AND GRADE RINGS. DISPOSAL OF ALL MANHOLE MATERIALS SHALL BE AT THE DISCRETION OF THE OWNER. PRECAST CONES AND RISERS SHALL ALSO BE REMOVED IF THEY ARE EXPOSED.
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 - ABANDONED PIPE 12 INCHES AND LARGER SHALL BE FILLED WITH FLOWABLE FILL IF NOT COMPLETELY REMOVED FROM THE GROUND.
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 - ABANDONMENT AND/OR REMOVAL OF ALL STORMWATER INFRASTRUCTURE SHALL COMPLY WITH THE CITY OF KNOXVILLE'S ABANDONMENT GUIDELINES.



NOT FOR CONSTRUCTION

REVISION RECORD

NO.	DATE	DESCRIPTION

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 2704 Cherokee Farm Way - Suite 101 - Knoxville, TN 37920
 Ph: 865.977.9997 - Fax: 865.977.9919
 www.cemcinc.com

**KNOXVILLE'S COMMUNITY DEVELOPMENT CORPORATION
 AUSTIN HOMES
 INFRASTRUCTURE PACKAGE
 KNOXVILLE, KNOX COUNTY, TN**

SITE DEMOLITION PLAN

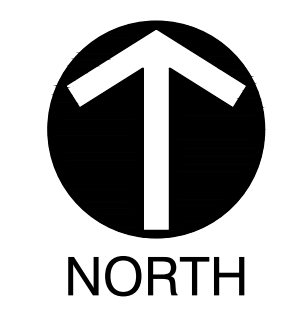
DATE:	REVISED MARCH 2, 2020	DRAWN BY:	CRJ/MMB/ASL
DWG SCALE:	AS SHOWN	CHECKED BY:	MWB
PROJECT NO.:	194-594	APPROVED BY:	GHP

C103

P:\19191\194-594-C103\DWG\194-594-C103-DEMOLITION PLAN - REVISED MARCH 2, 2020.dwg

- NOTES:**
1. IF ADD ALTERNATE 1 IS NOT INCLUDED IN THE PROJECT, THE INTERSECTION OF ROAD 'A' AND ROAD 'B' WILL CONSIST OF CONTINUOUS CURB AND SIDEWALK.
 2. THE SIDEWALK WIDTH ON THE SOUTHERN PORTION OF ROAD 'A' SHALL BE INCREASED FROM 6' TO 10'. THIS WILL CAUSE R.O.W LIMITS TO SET BACK 4'.

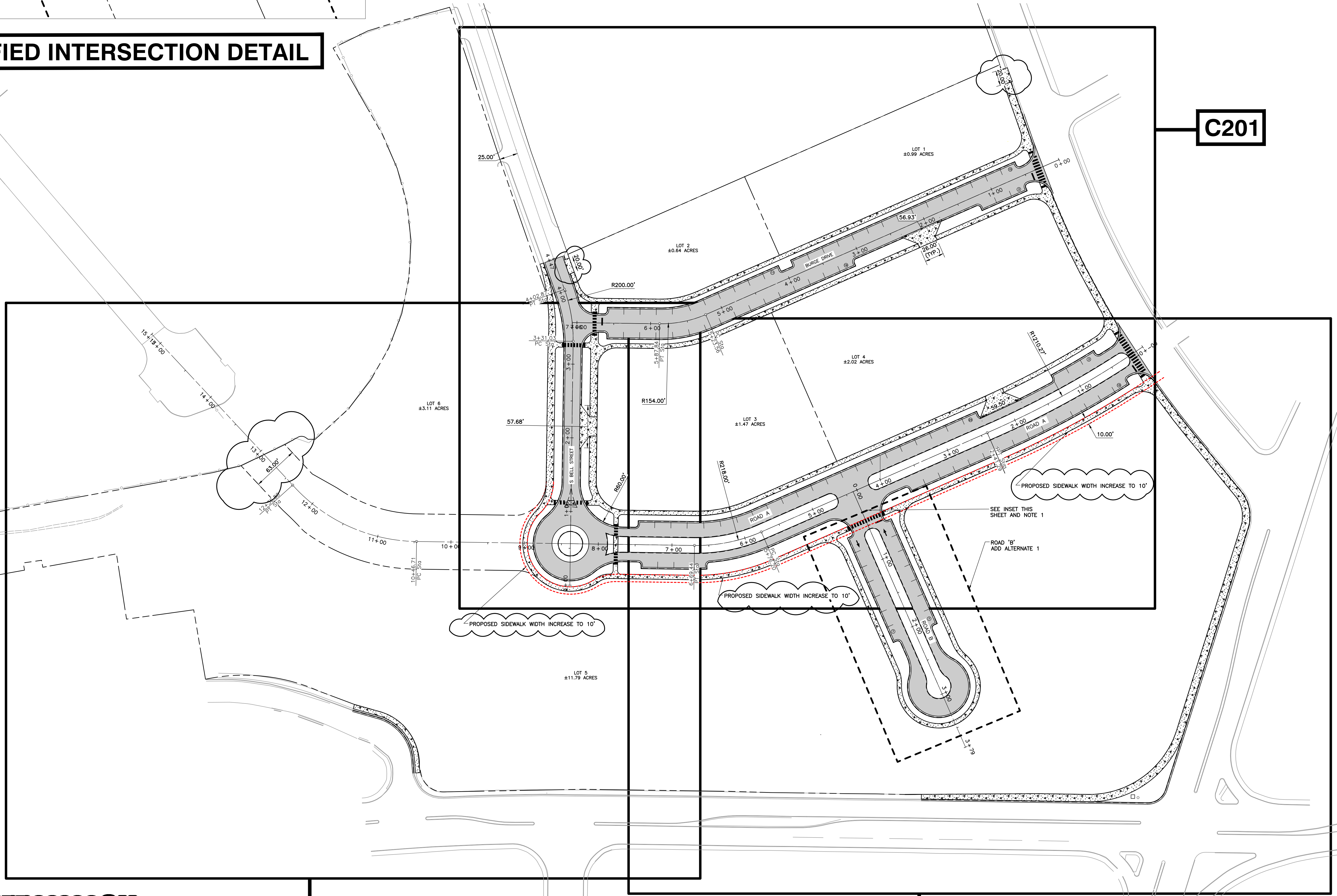
- LEGEND:**
- PROPOSED PROPERTY LINE
 - EXISTING ADJACENT PROPERTY LINE
 - EXISTING RIGHT-OF-WAY
 - EXISTING EASEMENT
 - PROPOSED PARKING SPACE COUNT
 - PROPOSED RIGHT-OF-WAY
 - PROPOSED SETBACK
 - PROPOSED ROAD CENTERLINE
 - PROPOSED CONCRETE GUTTER
 - PROPOSED HEAVY DUTY ASPHALT PAVEMENT
 - PROPOSED CONCRETE SURFACE



SCALE IN FEET
0 30 60

MODIFIED INTERSECTION DETAIL

C201



PROPOSED SIDEWALK WIDTH INCREASE TO 10'

PROPOSED SIDEWALK WIDTH INCREASE TO 10'

PROPOSED SIDEWALK WIDTH INCREASE TO 10'

SEE INSET THIS SHEET AND NOTE 1

ROAD 'B' ADD ALTERNATE 1



C203

C202

SCALE IN FEET
0 60 120

NOT FOR CONSTRUCTION

SITE LAYOUT SHEET MAP

DATE:	FEBRUARY 12, 2020
DWG SCALE:	AS SHOWN
PROJECT NO.:	194-4594
APPROVED BY:	GHP
CRJ/JWB/ASL	
MWB	

DRAWING NO. **C200**

**KNOXVILLE'S COMMUNITY DEVELOPMENT CORPORATION
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KNOXVILLE, KNOX COUNTY, TN**

Civil & Environmental Consultants, Inc.
2704 Cherokee Farm Way - Suite 101 - Knoxville, TN 37920
Ph: 865.977.9957 - Fax: 865.977.9919
www.cedinc.com

NO.	DATE	REVISION RECORD	DESCRIPTION

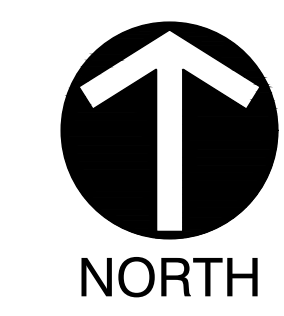
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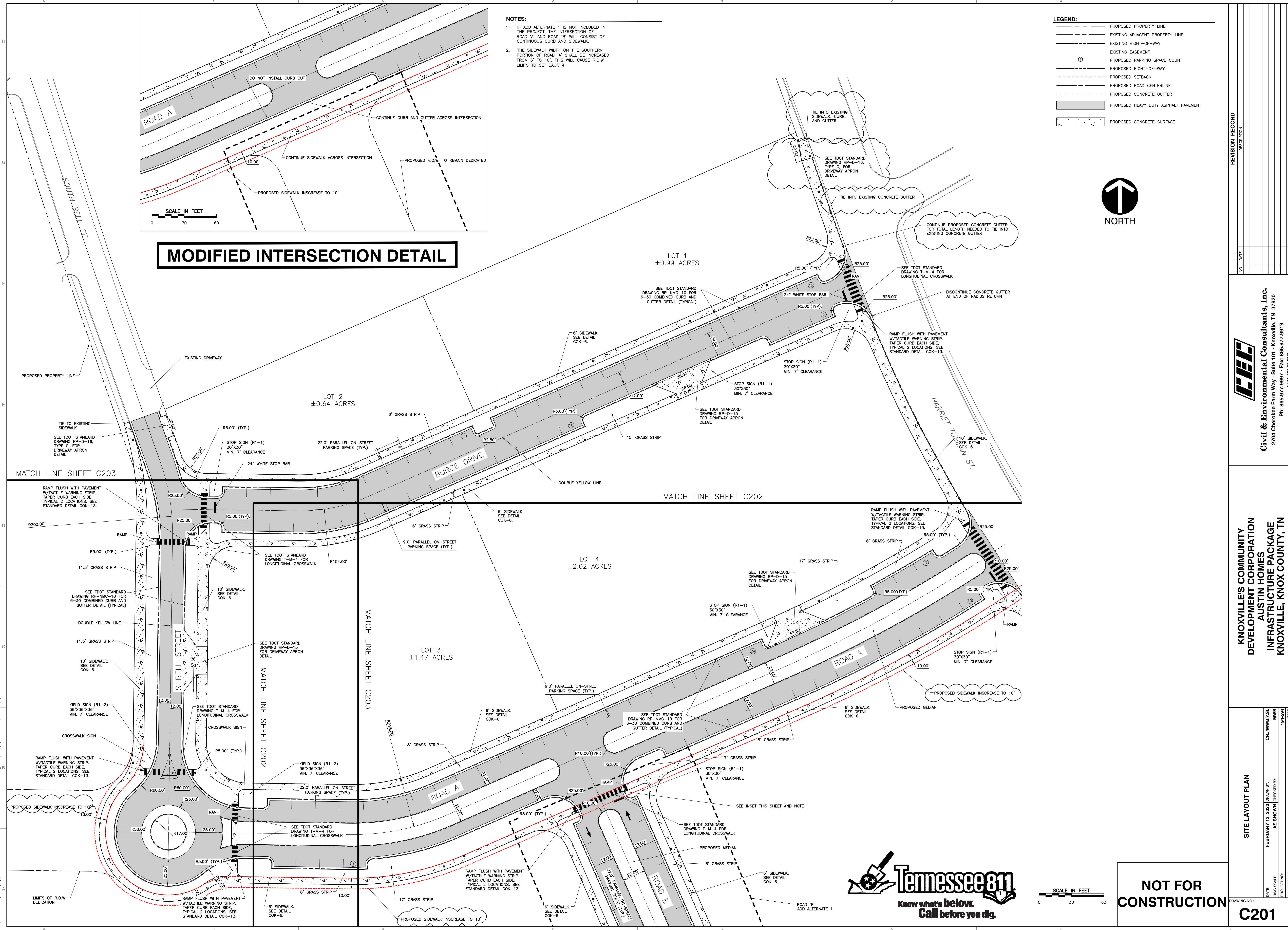
- IF ADD ALTERNATE 1 IS NOT INCLUDED IN THE PROJECT, THE INTERSECTION OF ROAD 'A' AND ROAD 'B' WILL CONSIST OF CONTINUOUS CURB AND SIDEWALK.
- THE SIDEWALK WIDTH ON THE SOUTHERN PORTION OF ROAD 'A' SHALL BE INCREASED FROM 6' TO 10'. THIS WILL CAUSE R.O.W. LIMITS TO SET BACK 4'.

LEGEND:

- PROPOSED PROPERTY LINE
- EXISTING ADJACENT PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED PARKING SPACE COUNT
- PROPOSED RIGHT-OF-WAY
- PROPOSED SETBACK
- PROPOSED ROAD CENTERLINE
- PROPOSED CONCRETE GUTTER
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT
- PROPOSED CONCRETE SURFACE



MODIFIED INTERSECTION DETAIL



REVISION RECORD

NO.	DATE	DESCRIPTION

CEE
Civil & Environmental Consultants, Inc.
 2704 Cherokee Farm Way - Suite 101 - Knoxville, TN 37920
 Ph: 865.977.9997 - Fax: 865.977.9919
 www.ceeinc.com

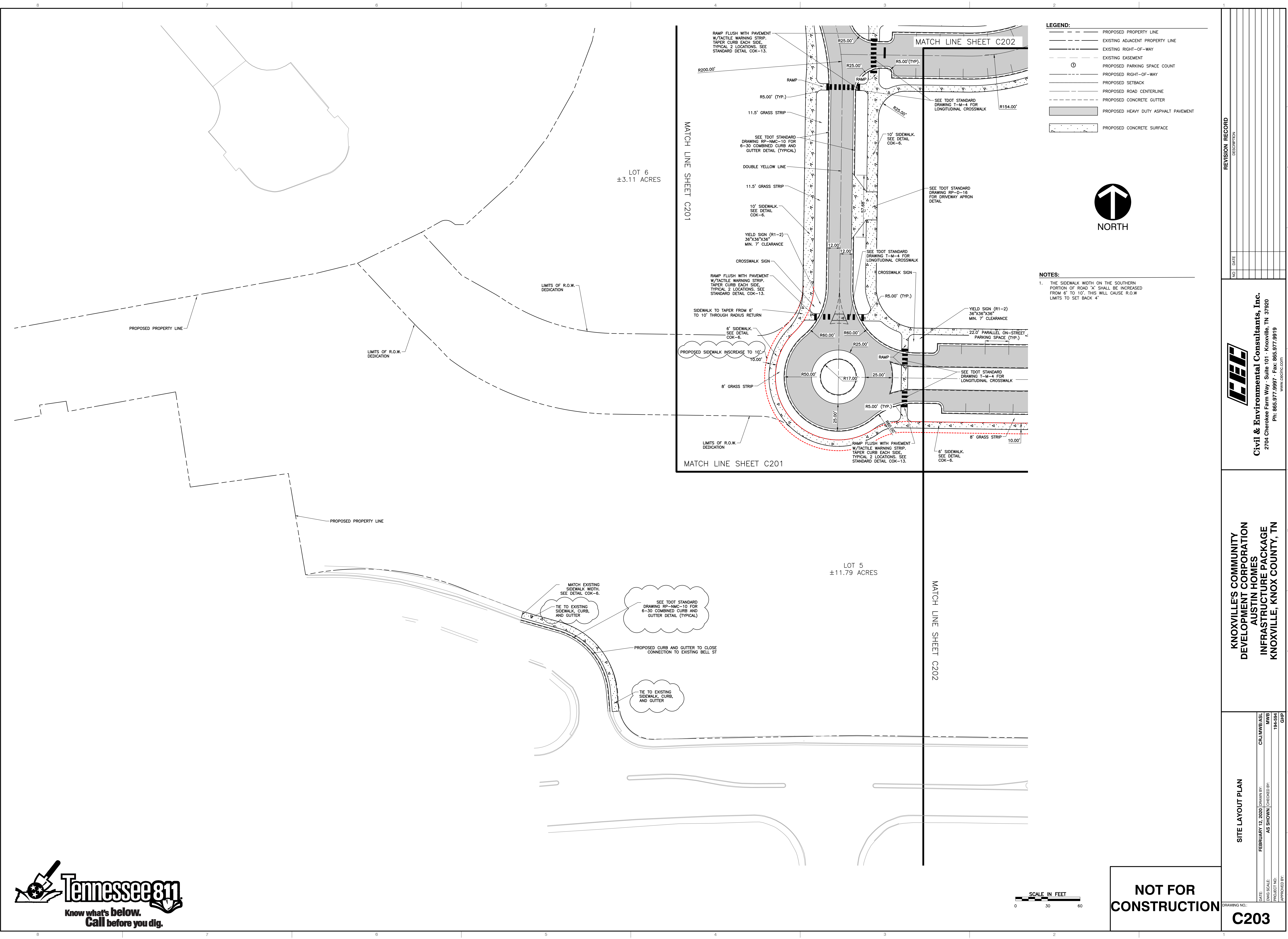
KNOXVILLE'S COMMUNITY DEVELOPMENT CORPORATION
AUSTIN HOMES
INFRASTRUCTURE PACKAGE
KNOXVILLE, KNOX COUNTY, TN

SITE LAYOUT PLAN
 DATE: FEBRUARY 12, 2020 DRAWN BY: CRJ/MW/ASL
 DWG SCALE: AS SHOWN CHECKED BY: MMB
 PROJECT NO: 194-1504
 APPROVED BY: GHP



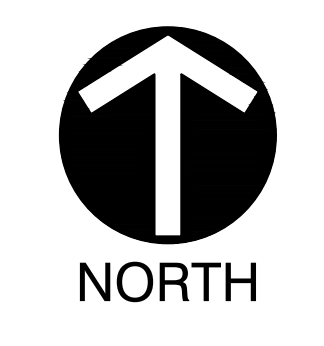
NOT FOR CONSTRUCTION

DRAWING NO. **C201**



LEGEND:

- PROPOSED PROPERTY LINE
- - - - EXISTING ADJACENT PROPERTY LINE
- - - - EXISTING RIGHT-OF-WAY
- - - - EXISTING EASEMENT
- ⊙ PROPOSED PARKING SPACE COUNT
- - - - PROPOSED RIGHT-OF-WAY
- - - - PROPOSED SETBACK
- - - - PROPOSED ROAD CENTERLINE
- - - - PROPOSED CONCRETE GUTTER
- ▨ PROPOSED HEAVY DUTY ASPHALT PAVEMENT
- ▨ PROPOSED CONCRETE SURFACE



NOTES:

- THE SIDEWALK WIDTH ON THE SOUTHERN PORTION OF ROAD "A" SHALL BE INCREASED FROM 6' TO 10'. THIS WILL CAUSE R.O.W LIMITS TO SET BACK 4'.

NO.	DATE	REVISION RECORD DESCRIPTION

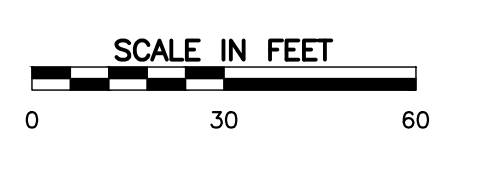
Civil & Environmental Consultants, Inc.
 2704 Cherokee Farm Way - Suite 101 - Knoxville, TN 37920
 Ph: 865.977.9957 - Fax: 865.977.9919
 www.cedinc.com

KNOXVILLE'S COMMUNITY DEVELOPMENT CORPORATION
AUSTIN HOMES
INFRASTRUCTURE PACKAGE
KNOXVILLE, KNOX COUNTY, TN

SITE LAYOUT PLAN	
DATE: FEBRUARY 12, 2020	DRAWN BY: CRJ/JWB/ASL
DWG SCALE: AS SHOWN	CHECKED BY: MVB
PROJECT NO: 194-594	APPROVED BY: GHP

NOT FOR CONSTRUCTION

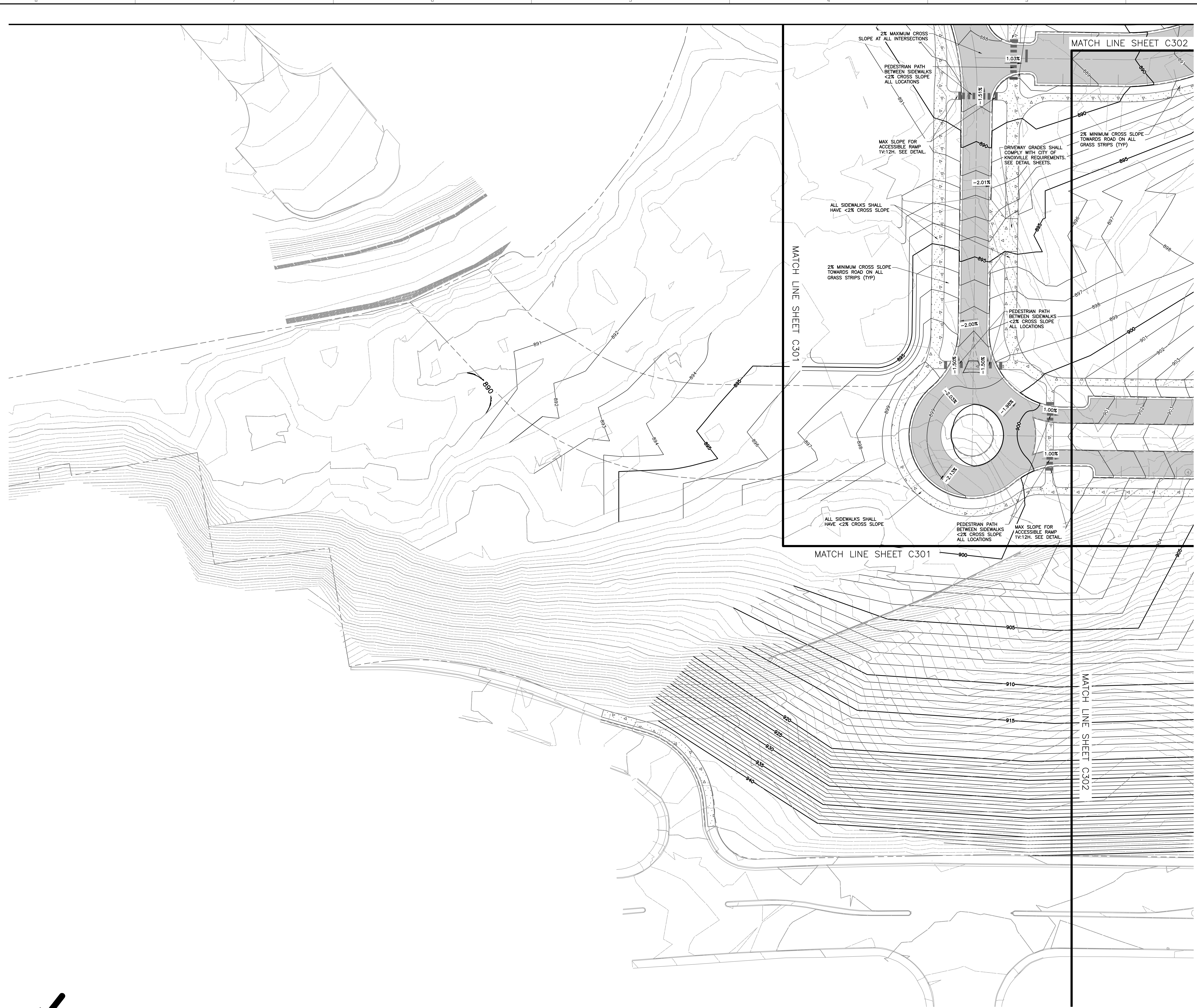
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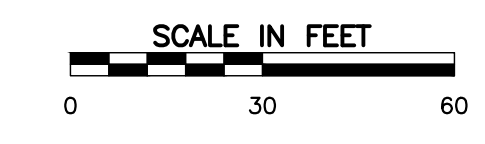
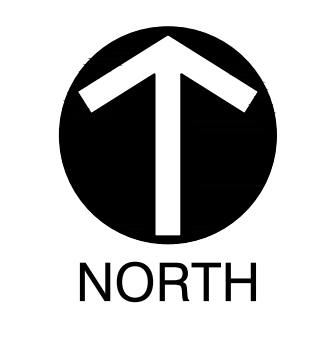
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- LEGEND:**
- PROPOSED PROPERTY LINE
 - - - EXISTING ADJACENT PROPERTY LINE
 - - - EXISTING RIGHT-OF-WAY
 - - - EXISTING EASEMENT
 - ⊙ PROPOSED PARKING SPACE COUNT
 - - - PROPOSED RIGHT-OF-WAY
 - - - PROPOSED SETBACK
 - - - PROPOSED ROAD CENTERLINE
 - - - PROPOSED CONCRETE GUTTER
 - 890 PROPOSED INDEX CONTOUR
 - 887 PROPOSED INTERMEDIATE CONTOUR
 - ▒ PROPOSED ASPHALT PAVEMENT
 - ▒ PROPOSED CONCRETE SURFACE



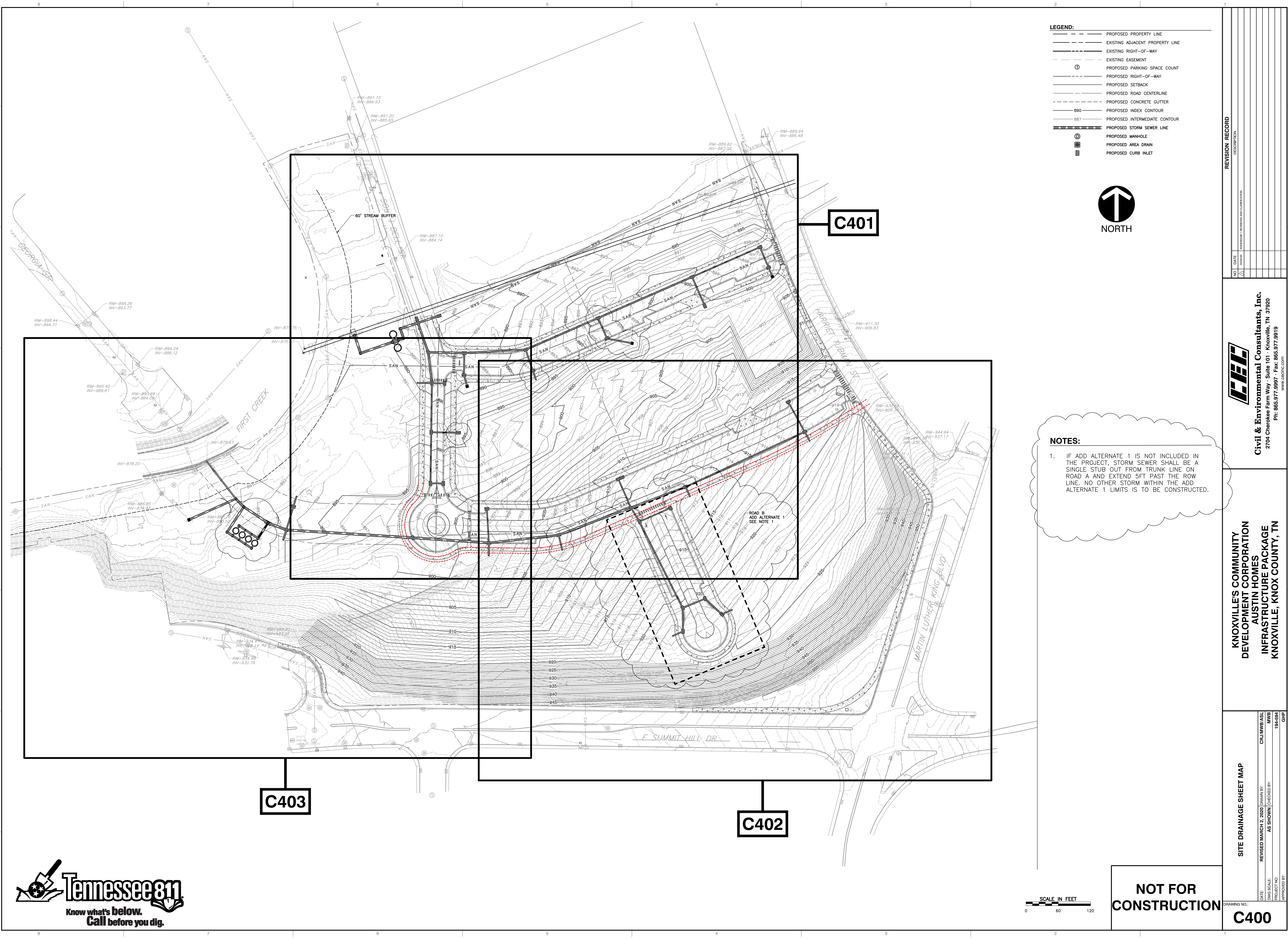
NOT FOR CONSTRUCTION

NO.	DATE	REVISION RECORD	DESCRIPTION

Civil & Environmental Consultants, Inc.
 2704 Cherokee Farm Way - Suite 101 - Knoxville, TN 37920
 Ph: 865.977.9997 - Fax: 865.977.9919
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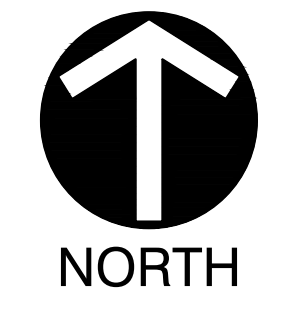
KNOXVILLE'S COMMUNITY DEVELOPMENT CORPORATION
AUSTIN HOMES
INFRASTRUCTURE PACKAGE
KNOXVILLE, KNOX COUNTY, TN

SITE GRADING PLAN	
DATE: FEBRUARY 12, 2020	DRAWN BY: CRJ/MWB/ASL
DWG SCALE: AS SHOWN	CHECKED BY: MWB
PROJECT NO: 19-041-041	APPROVED BY: GHP
DRAWING NO. C303	



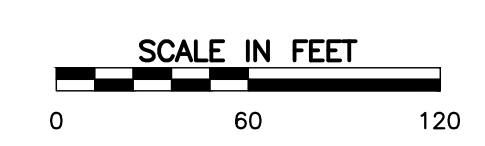
LEGEND:

---	PROPOSED PROPERTY LINE
---	EXISTING ADJACENT PROPERTY LINE
---	EXISTING RIGHT-OF-WAY
---	EXISTING EASEMENT
⊙	PROPOSED PARKING SPACE COUNT
---	PROPOSED RIGHT-OF-WAY
---	PROPOSED SETBACK
---	PROPOSED ROAD CENTERLINE
---	PROPOSED CONCRETE GUTTER
---	PROPOSED INDEX CONTOUR
---	PROPOSED INTERMEDIATE CONTOUR
---	PROPOSED STORM SEWER LINE
⊕	PROPOSED MANHOLE
⊞	PROPOSED AREA DRAIN
⊞	PROPOSED CURB INLET



NOTES:

- IF ADD ALTERNATE 1 IS NOT INCLUDED IN THE PROJECT, STORM SEWER SHALL BE A SINGLE STUB OUT FROM TRUNK LINE ON ROAD A AND EXTEND 5 FT PAST THE ROW LINE. NO OTHER STORM WITHIN THE ADD ALTERNATE 1 LIMITS IS TO BE CONSTRUCTED.



NOT FOR CONSTRUCTION

REVISION RECORD

NO.	DATE	BY	DESCRIPTION

Civil & Environmental Consultants, Inc.
 2704 Cherokee Farm Way - Suite 101 - Knoxville, TN 37920
 Ph: 865.977.9997 - Fax: 865.977.9919
 www.cechinc.com

**KNOXVILLE'S COMMUNITY DEVELOPMENT CORPORATION
 AUSTIN HOMES
 INFRASTRUCTURE PACKAGE
 KNOXVILLE, KNOX COUNTY, TN**

SITE DRAINAGE SHEET MAP

DATE: REVISED MARCH 2, 2020 DRAWN BY: CRJ/MWB/ASL
 DWG SCALE: AS SHOWN CHECKED BY: MWB
 PROJECT NO: 194-594
 APPROVED BY: GHP

DRAWING NO.: **C400**



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LEGEND:

---	PROPOSED PROPERTY LINE
---	EXISTING ADJACENT PROPERTY LINE
---	EXISTING RIGHT-OF-WAY
---	EXISTING EASEMENT
⊙	PROPOSED PARKING SPACE COUNT
---	PROPOSED RIGHT-OF-WAY
---	PROPOSED SETBACK
---	PROPOSED ROAD CENTERLINE
---	PROPOSED CONCRETE GUTTER
---	PROPOSED INDEX CONTOUR
---	PROPOSED INTERMEDIATE CONTOUR
---	PROPOSED STORM SEWER LINE
⊙	PROPOSED MANHOLE
⊙	PROPOSED AREA DRAIN
⊙	PROPOSED CURB INLET



NOTES:

- IF ADD ALTERNATE 1 IS NOT INCLUDED IN THE PROJECT, STORM SEWER SHALL BE A SINGLE STUB OUT FROM TRUNK LINE ON ROAD A AND EXTEND 5FT PAST THE ROW LINE. NO OTHER STORM WITHIN THE ADD ALTERNATE 1 LIMITS IS TO BE CONSTRUCTED.

REVISION RECORD

NO.	DATE	BY	DESCRIPTION

Civil & Environmental Consultants, Inc.
 2704 Cherokee Farm Way - Suite 101 - Knoxville, TN 37920
 Ph: 865.977.9997 - Fax: 865.977.9919
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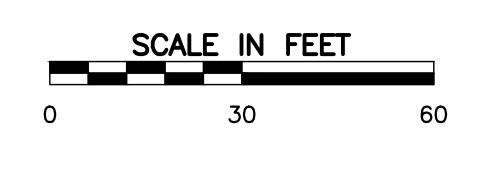
KNOXVILLE COMMUNITY DEVELOPMENT CORPORATION
AUSTIN HOMES
INFRASTRUCTURE PACKAGE
KNOXVILLE, KNOX COUNTY, TN

SITE DRAINAGE PLAN

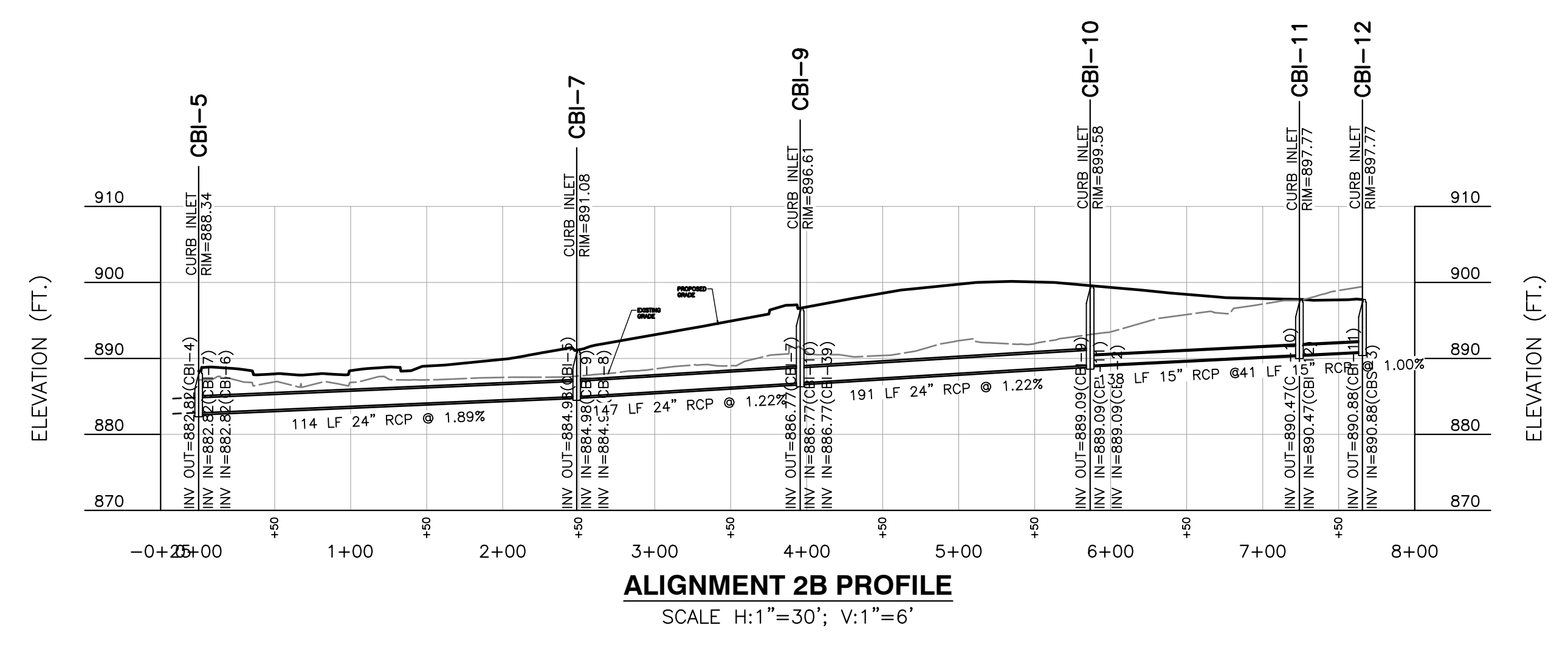
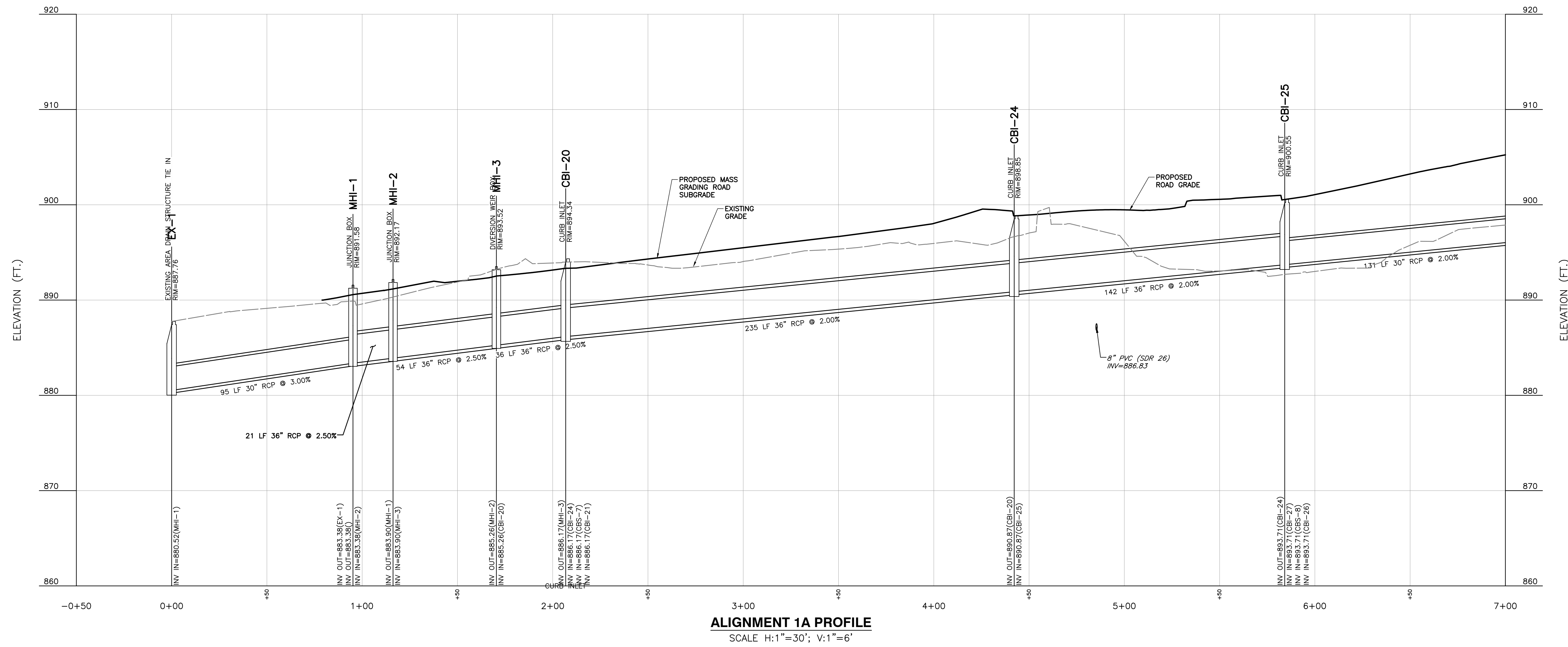
DATE:	REVISED MARCH 2, 2020	DRAWN BY:	CRJ/MWB/ASL
DWG SCALE:	AS SHOWN	CHECKED BY:	MWB
PROJECT NO.:	194-594	APPROVED BY:	GHP

NOT FOR CONSTRUCTION

C402



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NO.	DATE	DESCRIPTION

Civil & Environmental Consultants, Inc.
2704 Cherokee Farm Way - Suite 101 - Knoxville, TN 37920
Ph: 865.977.9997 - Fax: 865.977.9919
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**KNOXVILLES COMMUNITY DEVELOPMENT CORPORATION
AUSTIN HOMES
INFRASTRUCTURE PACKAGE
KNOXVILLE, KNOX COUNTY, TN**

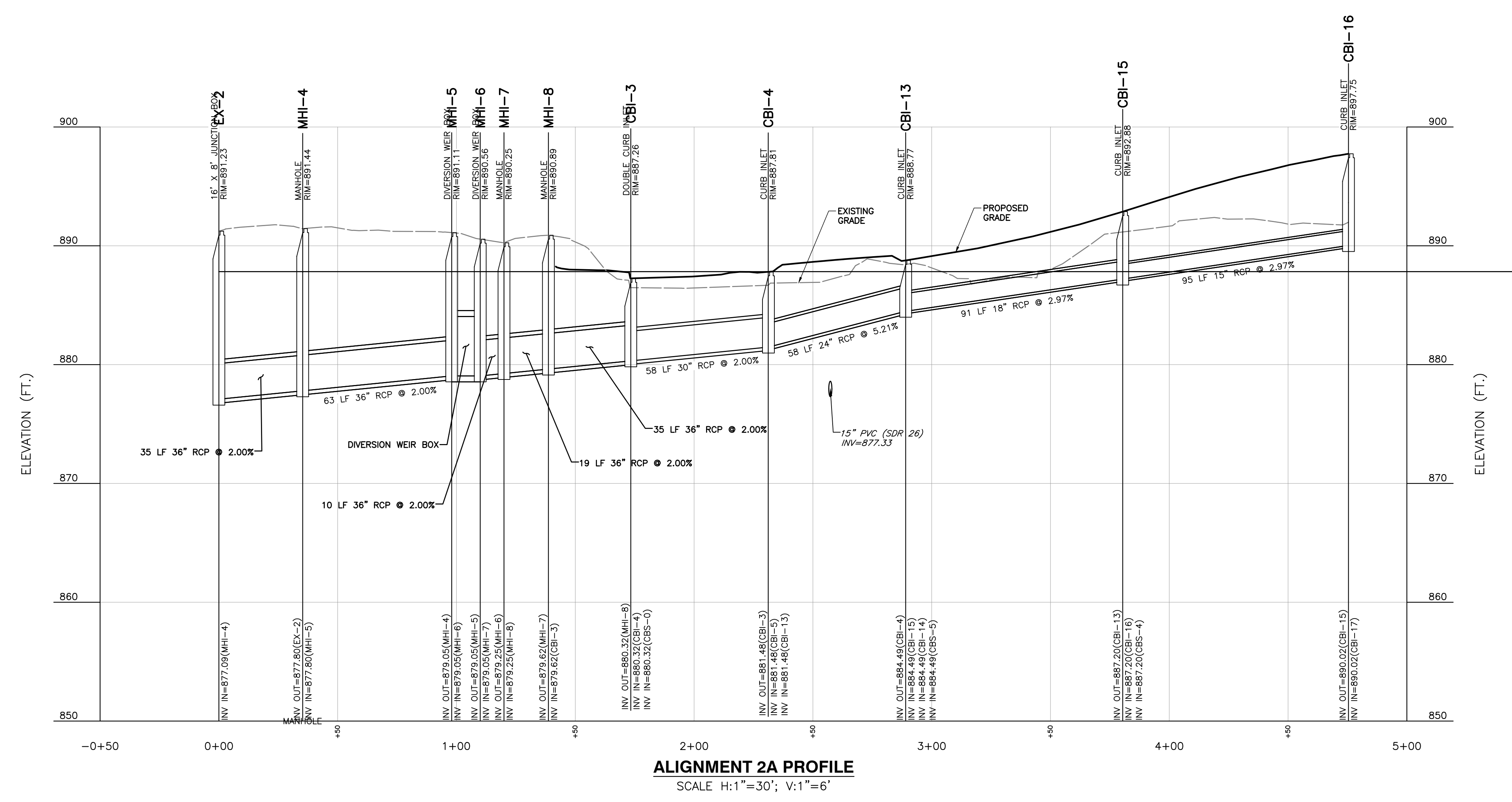
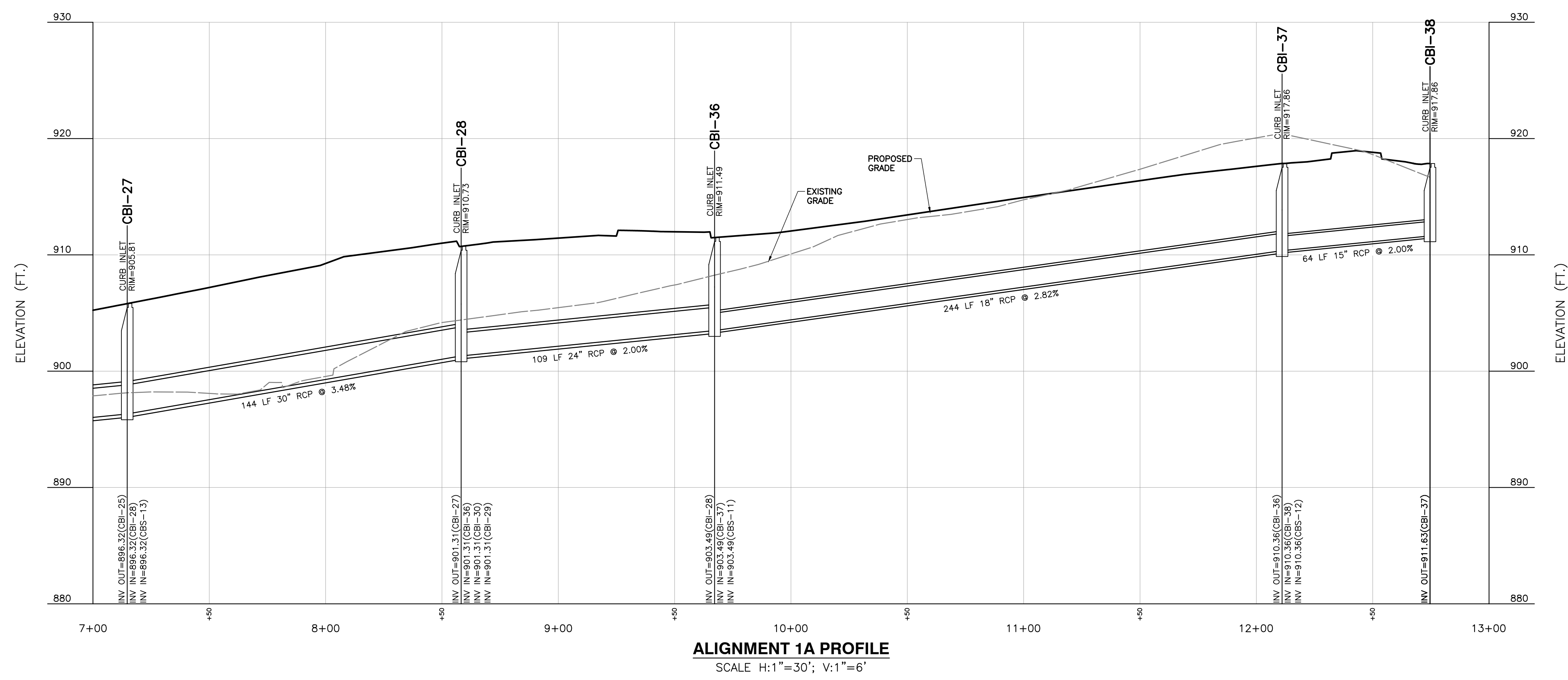
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DATE:	REVISED MARCH 2, 2020
DWG SCALE:	AS SHOWN
PROJECT NO.:	194-594
APPROVED BY:	GHP
CRJ/MWB/ASL	
MWB	

NOT FOR CONSTRUCTION

C404

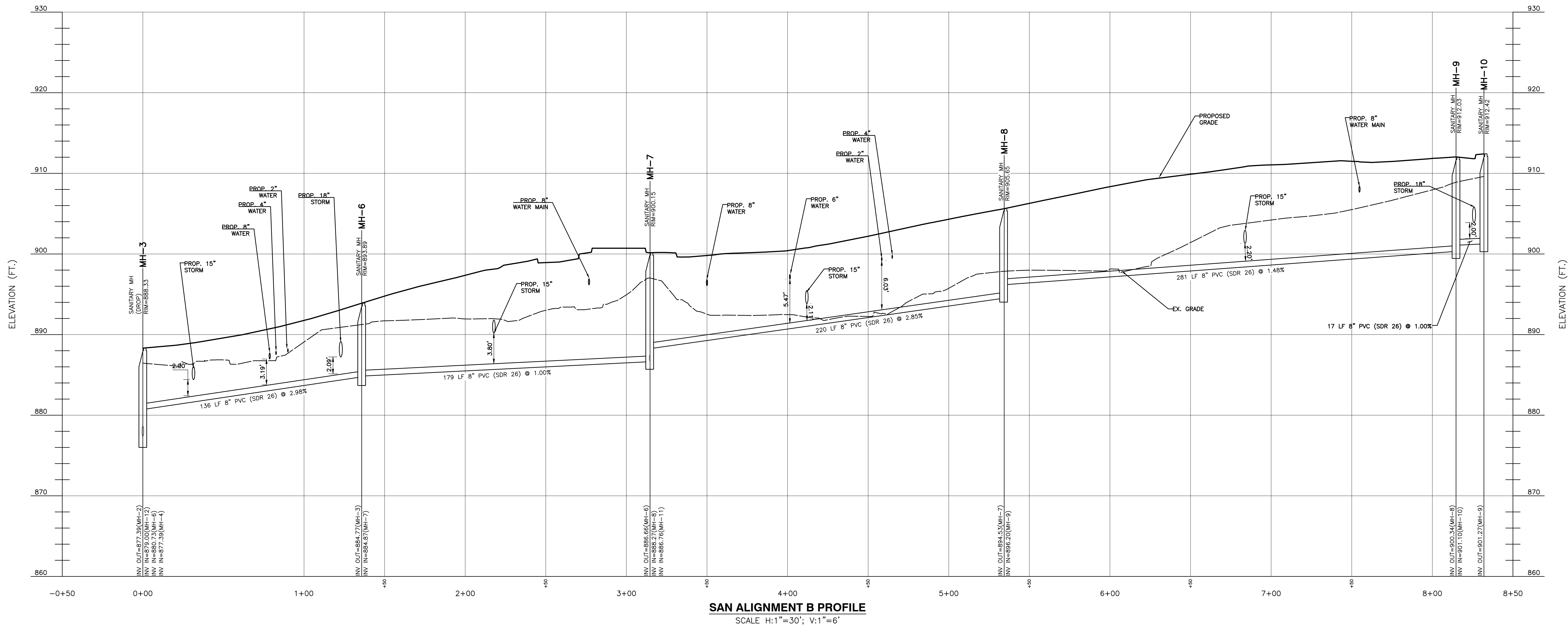
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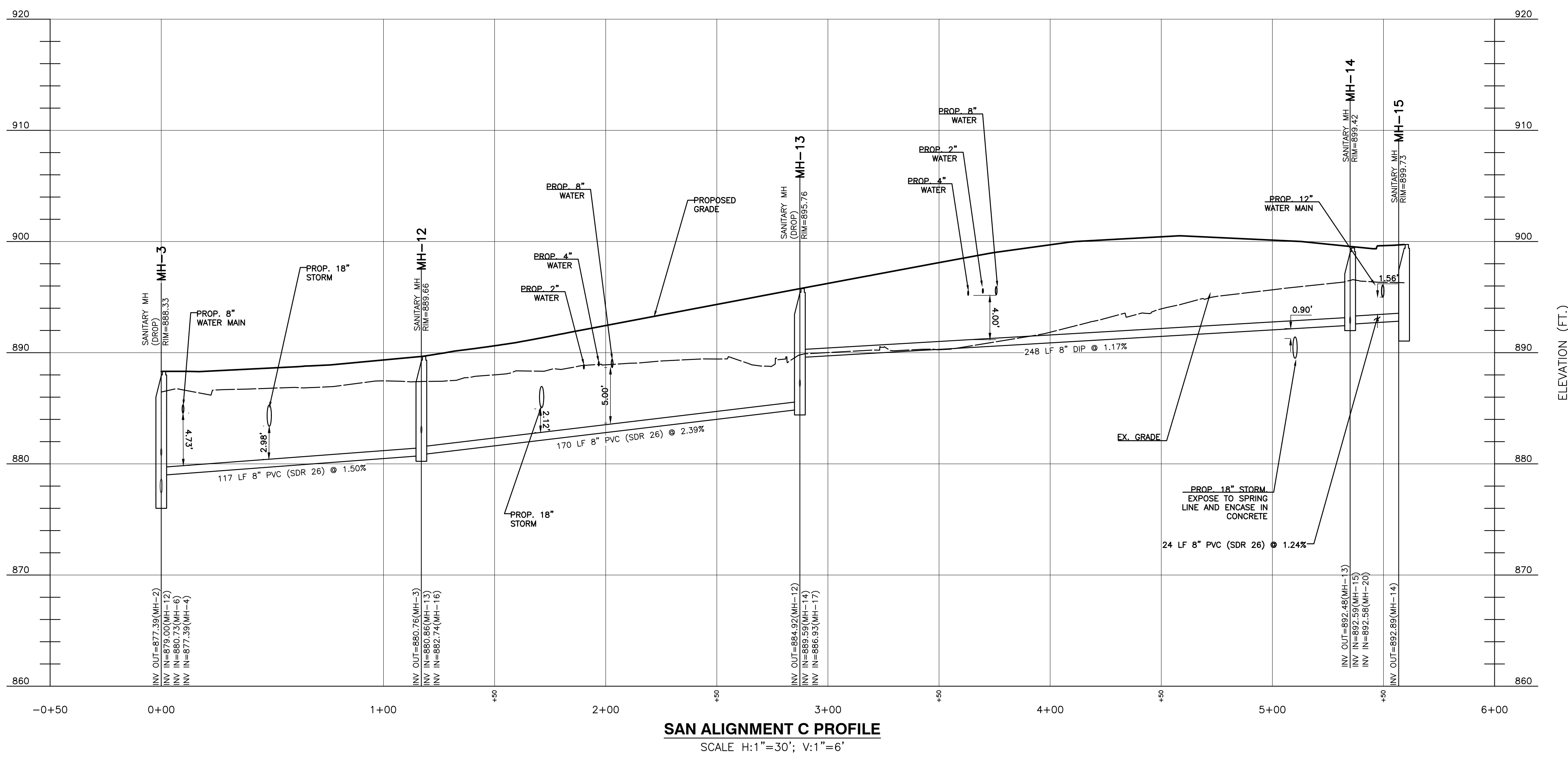


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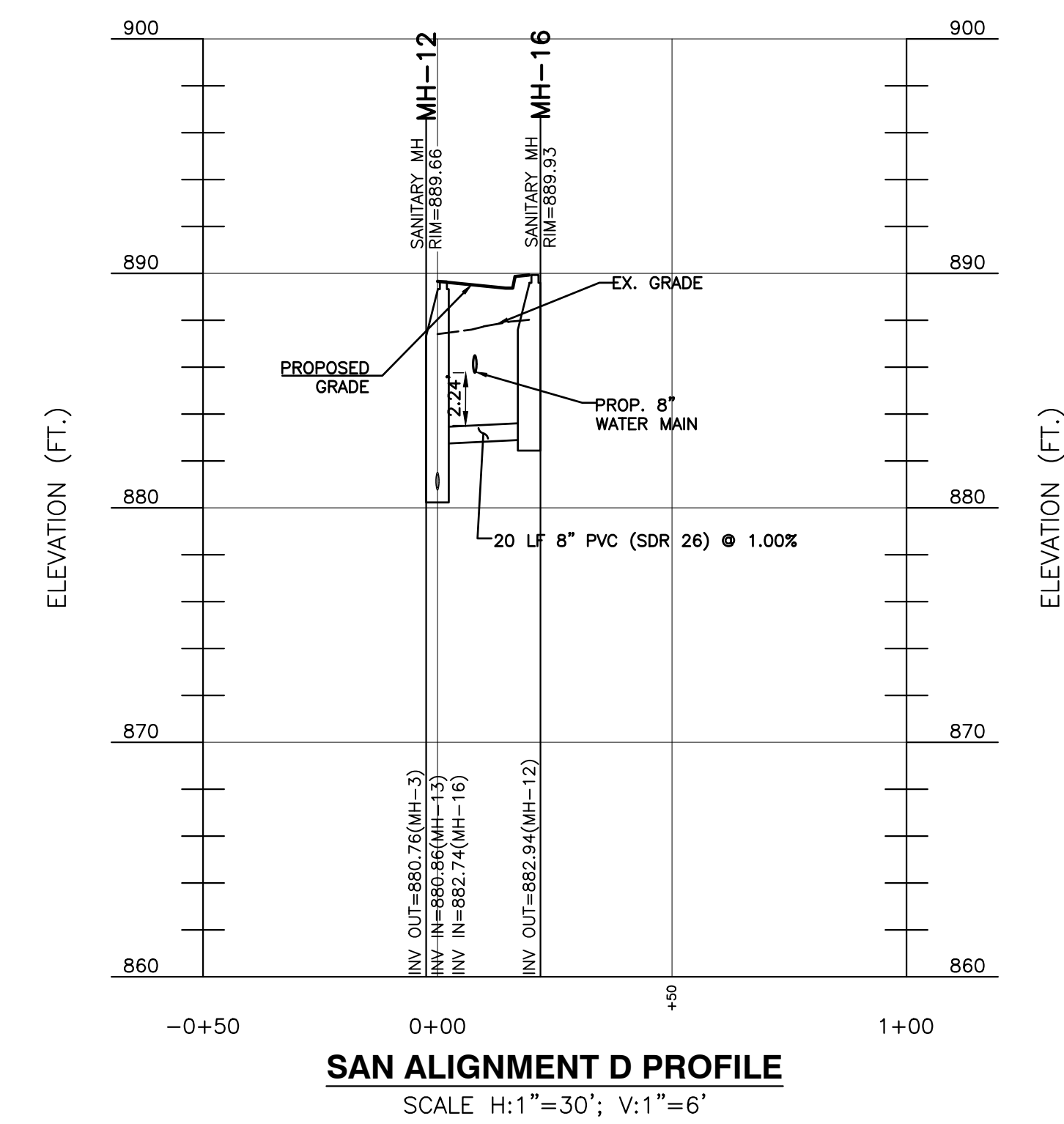
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<p>DATE: REVISED MARCH 2, 2020</p> <p>DWG SCALE: AS SHOWN</p> <p>PROJECT NO: 194-594</p> <p>APPROVED BY: GHP</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION															
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<p>KNOXVILLE COMMUNITY DEVELOPMENT CORPORATION</p> <p>AUSTIN HOMES</p> <p>INFRASTRUCTURE PACKAGE</p> <p>KNOXVILLE, KNOX COUNTY, TN</p>		<p>Civil & Environmental Consultants, Inc.</p> <p>2704 Cherokee Farm Way - Suite 101 - Knoxville, TN 37920</p> <p>Ph: 865.977.9997 - Fax: 865.977.9919</p> <p>www.cesinc.com</p>																	
<p>DRAWING NO. C405</p>		<p>CRJ/MWB/ASL</p> <p>MWB</p> <p>194-594</p>																	



SAN ALIGNMENT B PROFILE
SCALE H:1"=30'; V:1"=6'



SAN ALIGNMENT C PROFILE
SCALE H:1"=30'; V:1"=6'



SAN ALIGNMENT D PROFILE
SCALE H:1"=30'; V:1"=6'

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KNOXVILLE'S COMMUNITY DEVELOPMENT CORPORATION
AUSTIN HOMES
INFRASTRUCTURE PACKAGE
KNOXVILLE, KNOX COUNTY, TN

UTILITIES PLAN
DATE: FEBRUARY 12, 2020
DRAWN BY: CRJ/JWB/ASL
DWG SCALE: MMB
PROJECT NO.: 194-494
APPROVED BY: GHP

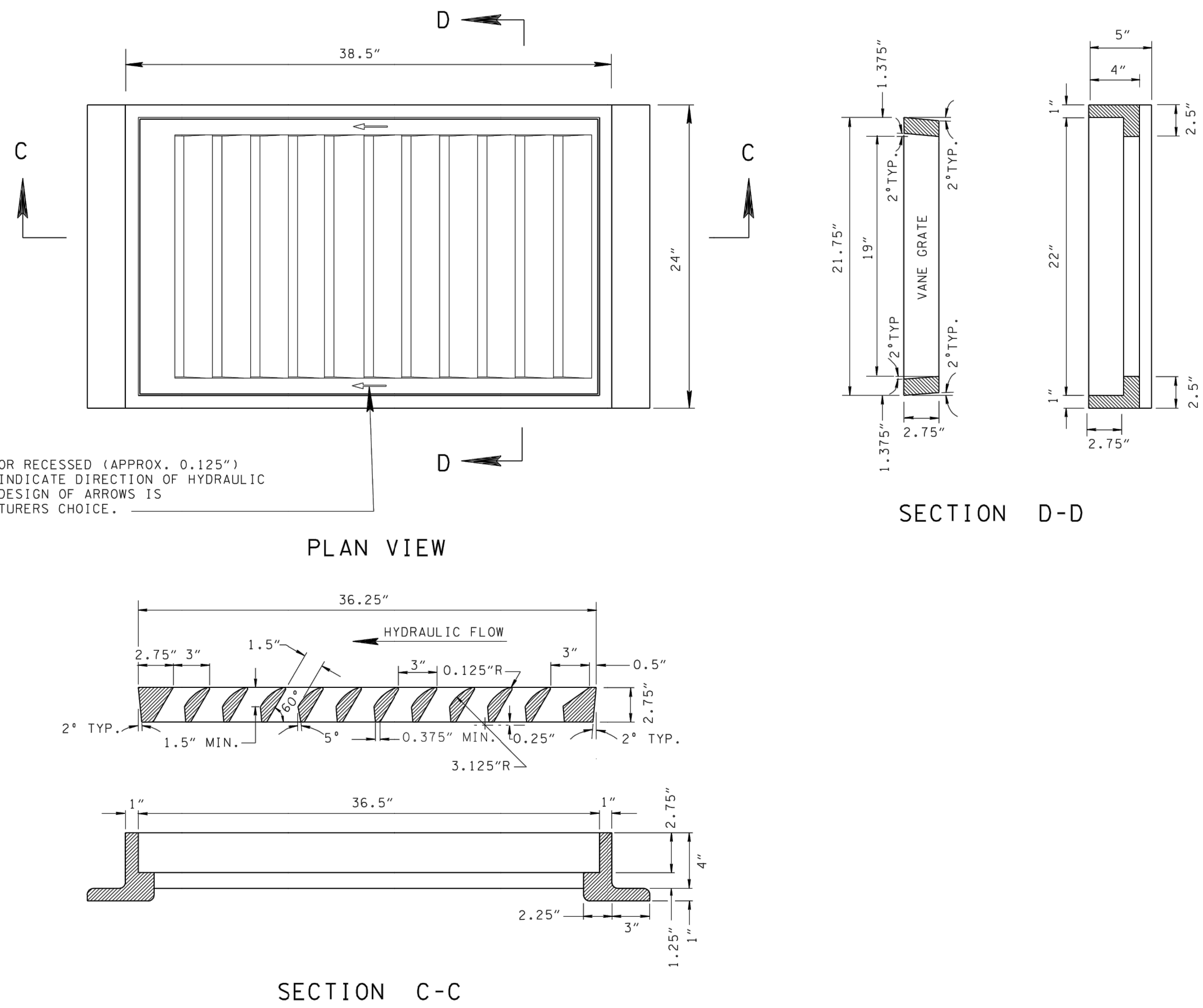


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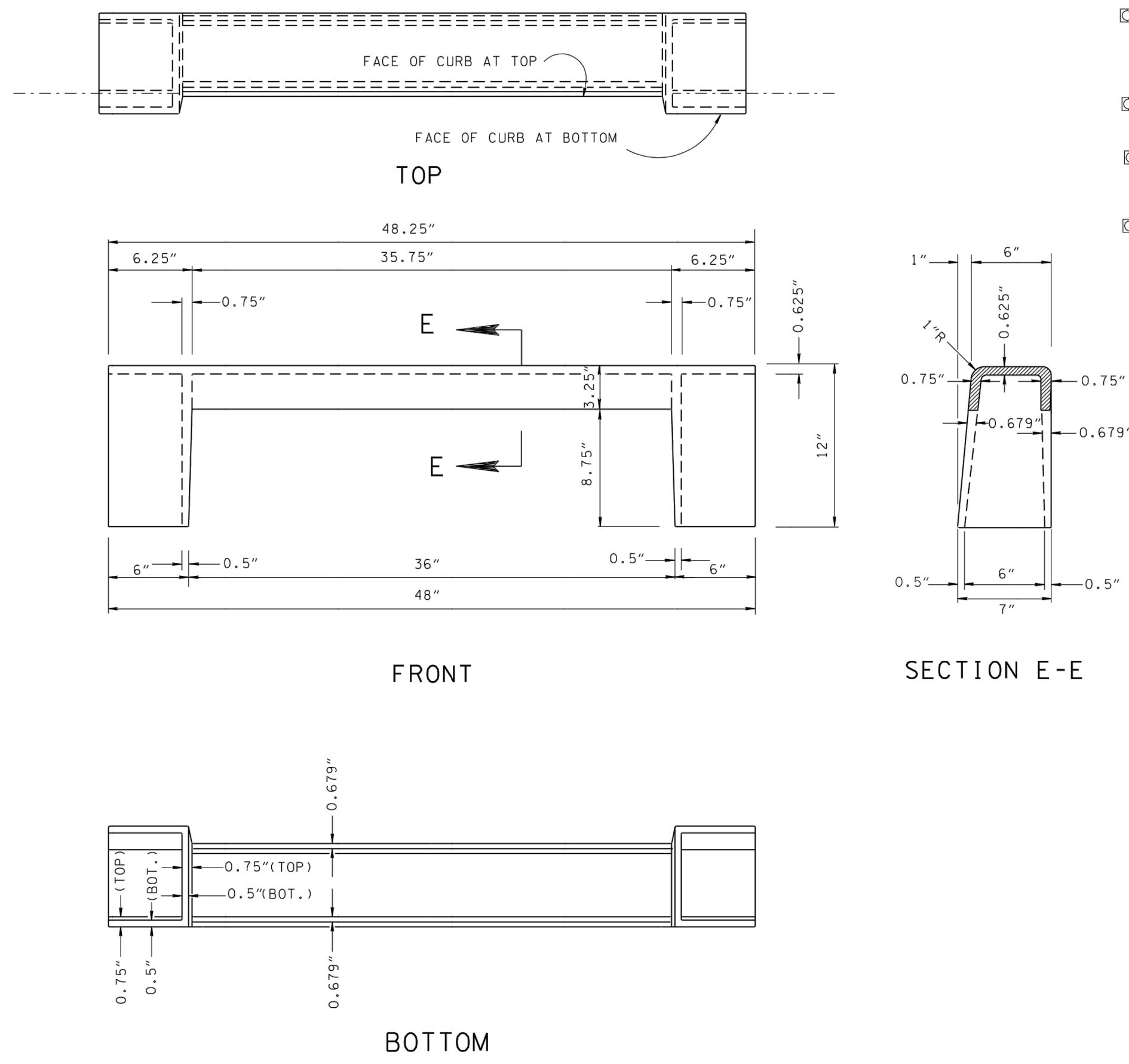
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GRATE AND FRAME DETAILS



CURB INLET CASTING



- REV. 10-26-93: REDREW SHEET, REORGANIZED SHEET AND UPDATED TO 1993 POLICY.
- REV. 9-05-94: MODIFIED CURB INLET CASTING DETAIL.
- REV. 1-19-95: CHANGED WEIGHT OF CURB INLET CASING FROM 150 TO 155 POUNDS.
- REV. 5-27-95: CHANGED GENERAL NOTE (A).
- REV. 5-27-97: CHANGED GENERAL NOTE (A). DELETED OLD GENERAL NOTE (C). CHANGED DESCRIPTION IN RIGHT LOWER CORNER BLOCK.
- REV. 1-19-98: CHANGED GENERAL NOTE (A).
- REV. 12-18-99: CHANGED LOWER RIGHT HAND CORNER BLOCK DESCRIPTION.
- REV. 5-27-01: CHANGED GENERAL NOTE (C).

GENERAL NOTES

- (A) WHEN A SIX (6) INCH NONMOUNTABLE CURB IS REQUIRED USE THIS DRAWING ON ALL VARIATIONS OF NUMBER 10, 12, 14, 16, AND 17 CATCH BASINS CONTAINED IN THIS SECTION OF THE STANDARD DRAWINGS.
- (B) FOR CLEARNESS, ALL CORNERS ARE SHOWN ON THIS DRAWING BY STRAIGHT LINES WITH THE EXCEPTION OF THE 1" RADIUS AT THE TOP OF FACE OF CURB. ALL INSIDE CORNERS SHOULD BE MADE WITH 1/2" x 1/2" FILLETS OR 3/4" RADIUS FILLETS FOR EASE IN MOULDING.
- (C) IF PAID FOR SEPARATELY CAST IRON USED IN CASTINGS IS TO BE PAID FOR UNDER ITEM NO. 611-03.04 GRAY IRON CASTINGS (CATCH BASIN) ... PER POUND.
- (D) IF CATCH BASIN IS PAID FOR UNDER EACH, THEN COST OF CAST IRON USED IN CASTINGS IS TO BE PAID FOR UNDER THE SPECIFIC ITEM BID FOR THAT CATCH BASIN. SEE STANDARD DRAWINGS FOR TYPE 10, 12, 14, 16, AND 17 CATCH BASINS FOR APPLICABLE PAY ITEMS FOR EACH TYPE OF CATCH BASIN.

WEIGHTS

(SINGLE GRATE CATCH BASIN)
FRAME ----- 265 LBS.
GRATE ----- 250 LBS.
CURB INLET ---- 155 LBS.
* TOTAL ----- 670 LBS.
* NOTE: WEIGHT OF TWO GRATES = 1,340 LBS.
* NOTE: FOR NO. 10 CATCH BASIN, DEDUCT 155 LBS. PER " GRATE ", SINCE NO CURB INLET IS REQUIRED.

FRACTION TABLE

1/8"	0.125"
1/4"	0.250"
3/8"	0.375"
1/2"	0.500"
5/8"	0.625"
3/4"	0.750"

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPE 'B' CAST IRON FRAME, GRATE & NONMOUNTABLE INLET DETAILS FOR NOS. 10, 12, 14, 16 & 17 TYPE CATCH BASINS
1-20-84 D-CBB-12A



GENERAL NOTES

- (A) WHEN A SIX (6) INCH NONMOUNTABLE CURB IS REQUIRED USE THIS DRAWING ON ALL VARIATIONS OF NUMBER 10, 12, 14, 16, AND 17 CATCH BASINS CONTAINED IN THIS SECTION OF THE STANDARD DRAWINGS.
- (B) FOR CLEARNESS, ALL CORNERS ARE SHOWN ON THIS DRAWING BY STRAIGHT LINES WITH THE EXCEPTION OF THE 1" RADIUS AT THE TOP OF FACE OF CURB. ALL INSIDE CORNERS SHOULD BE MADE WITH 1/2" x 1/2" FILLETS OR 3/4" RADIUS FILLETS FOR EASE IN MOULDING.
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STATE OF TENNESSEE
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KNOXVILLE'S COMMUNITY DEVELOPMENT CORPORATION
AUSTIN HOMES INFRASTRUCTURE PACKAGE
KNOXVILLE, KNOX COUNTY, TN

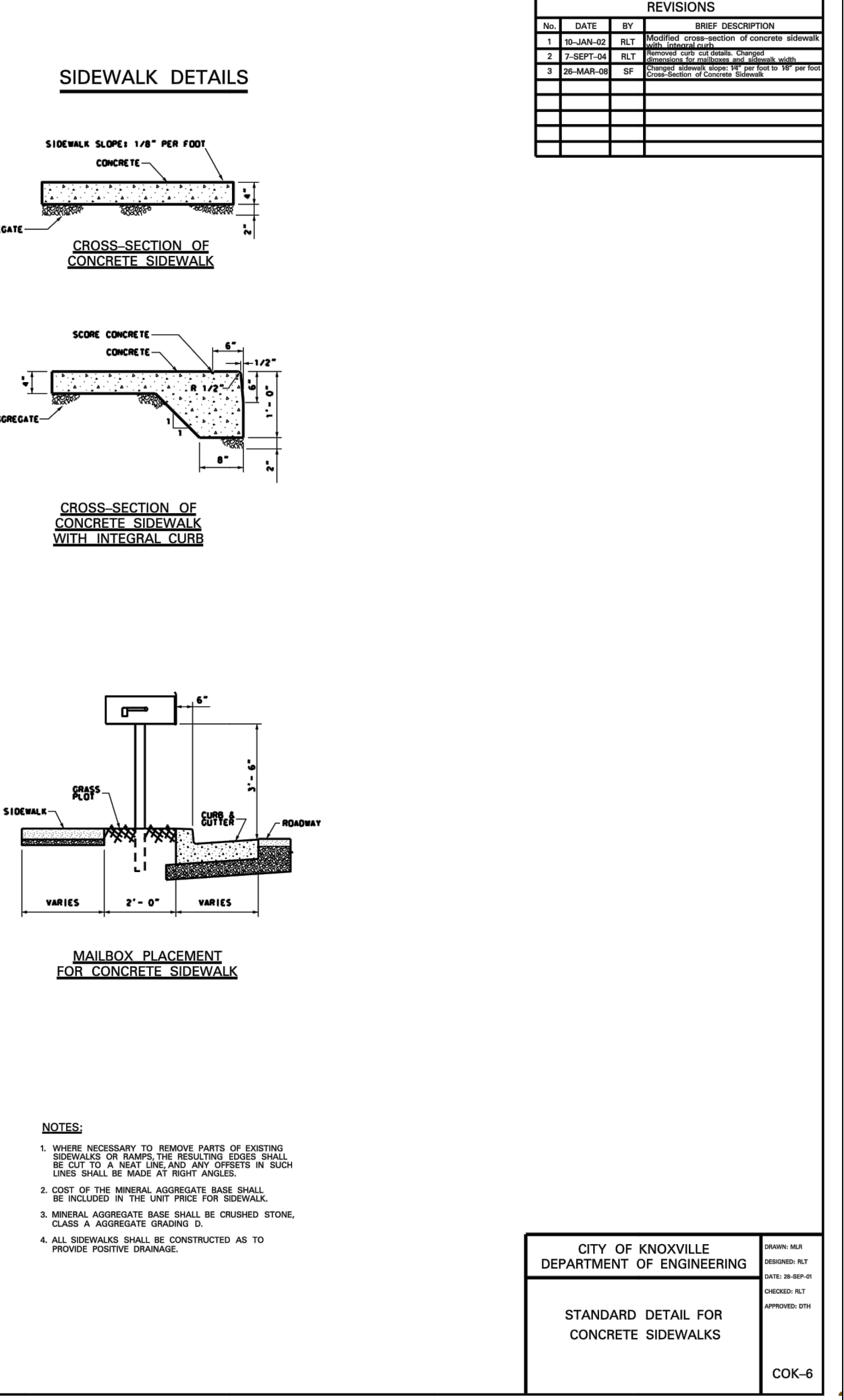
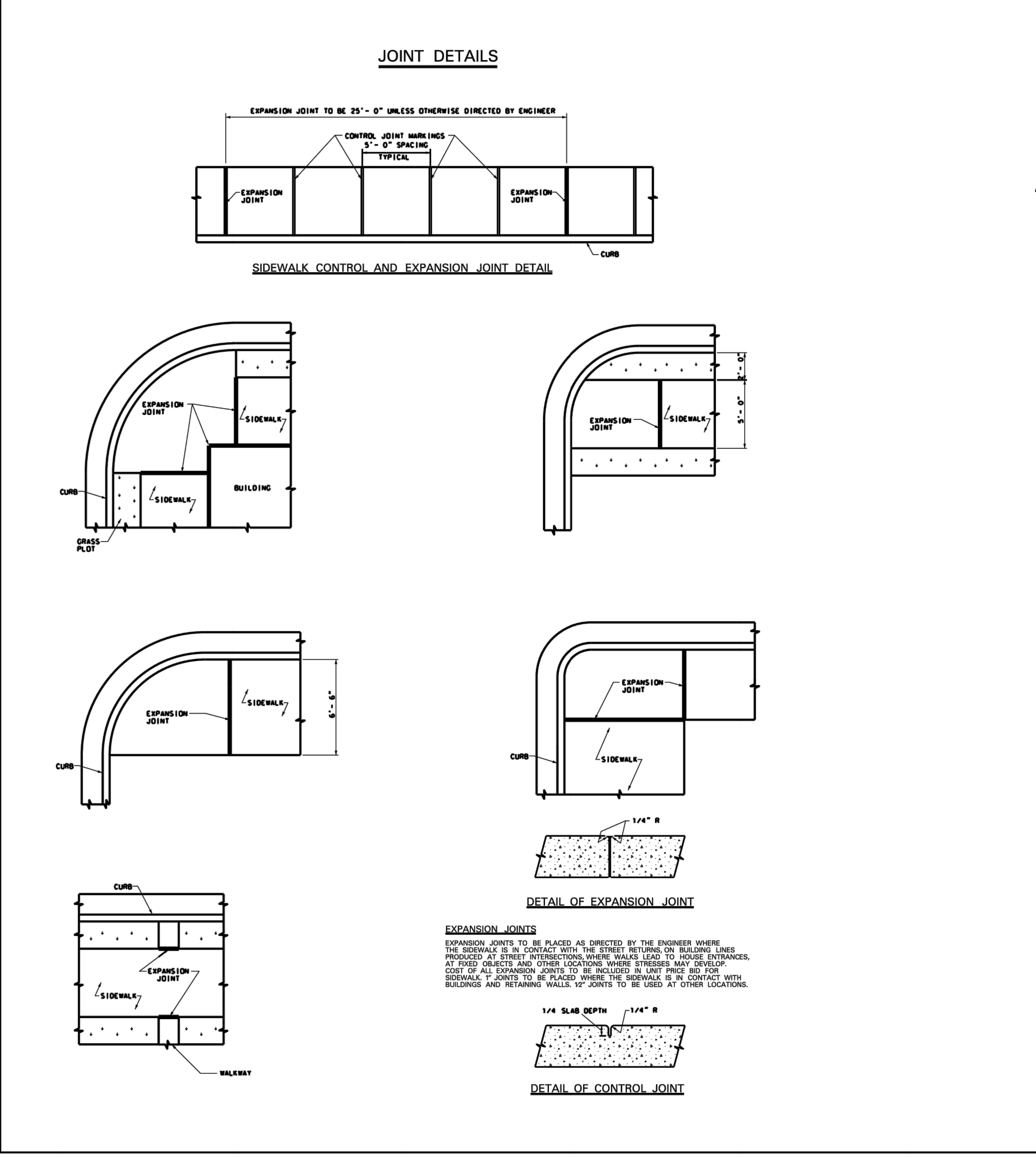
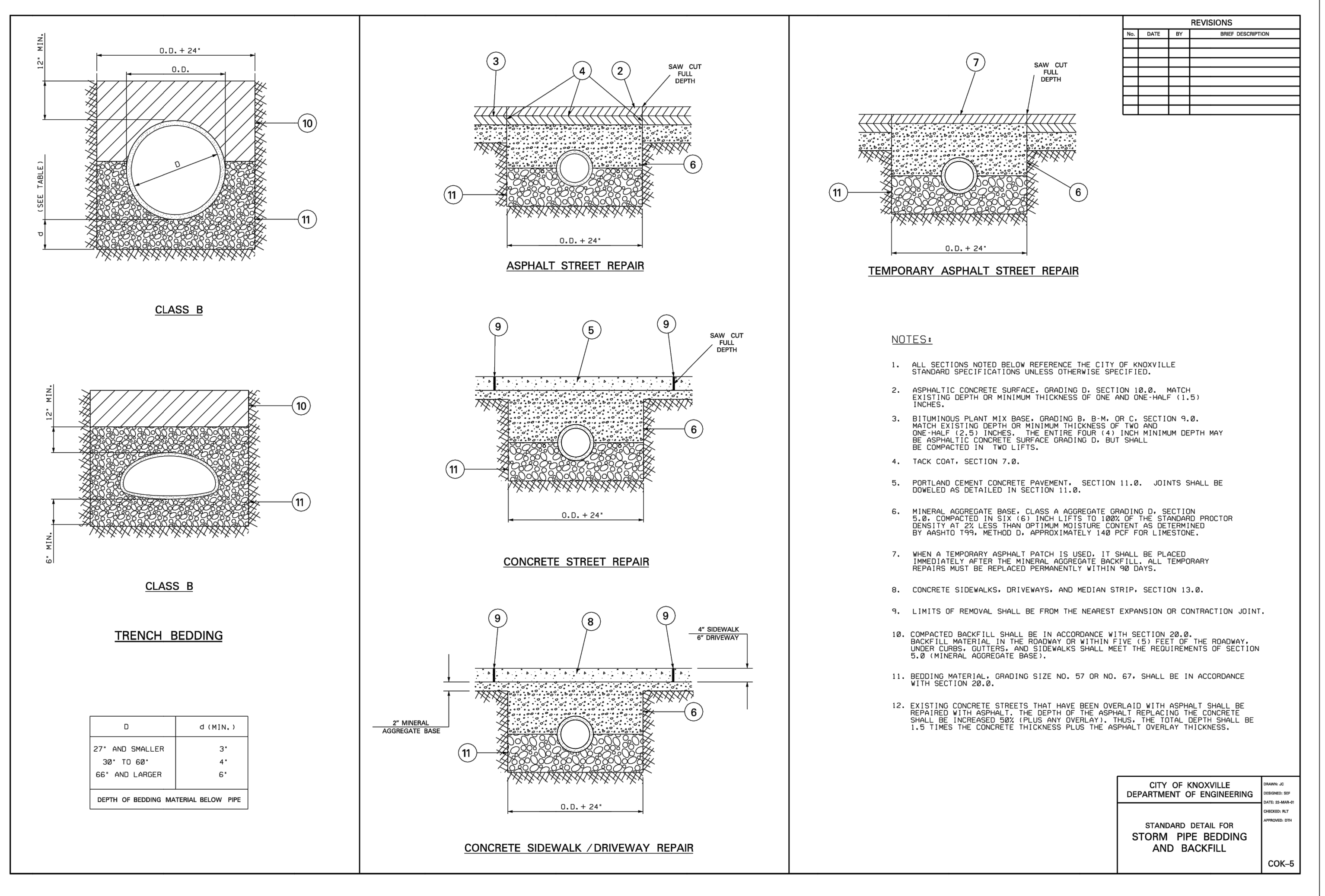
DATE: FEBRUARY 12, 2020
DRAWN BY: CRJ/AWB/ASL
DWG SCALE: MMB
PROJECT NO: 194-594
APPROVED BY: GHP

DATE: FEBRUARY 12, 2020
DRAWN BY: CRJ/AWB/ASL
DWG SCALE: MMB
PROJECT NO: 194-594
APPROVED BY: GHP

NOT FOR CONSTRUCTION

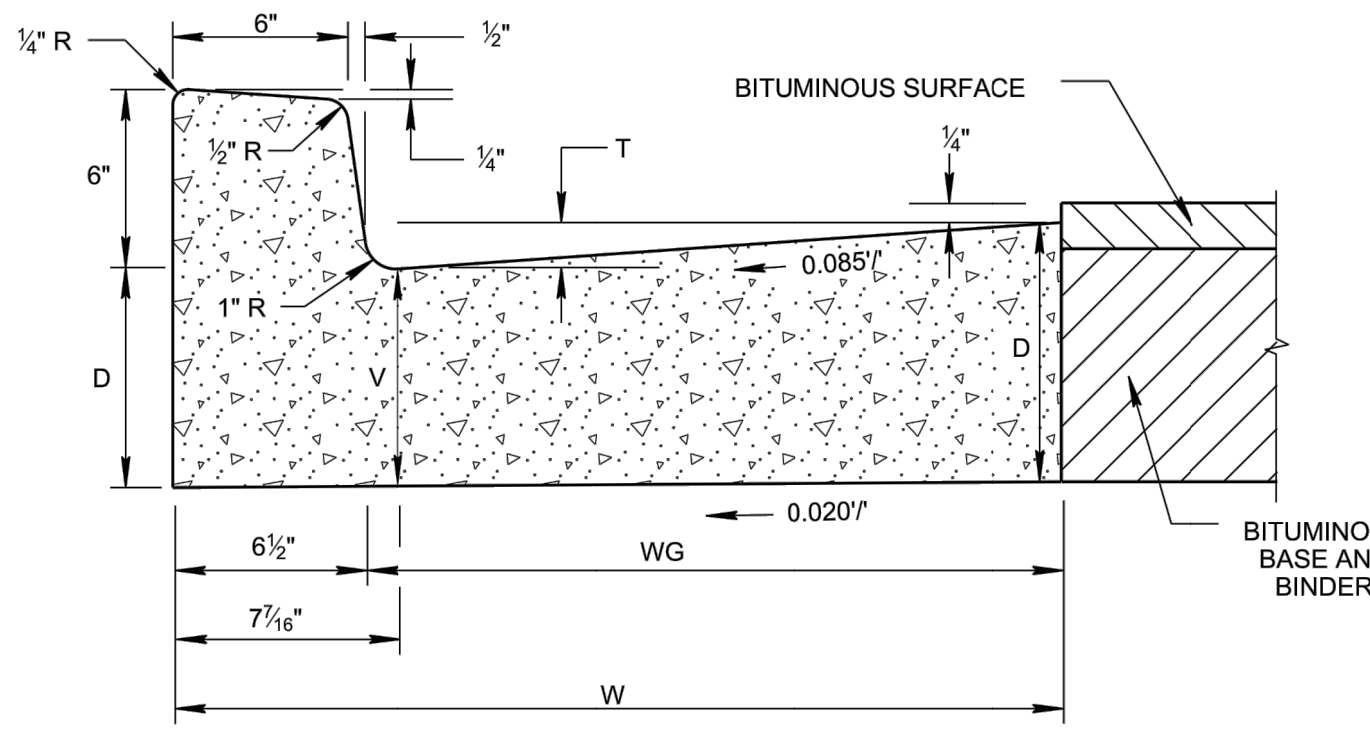
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CITY OF KNOXVILLE
DEPARTMENT OF ENGINEERING
STANDARD DETAIL FOR STORM PIPE BEDDING AND BACKFILL
COK-5

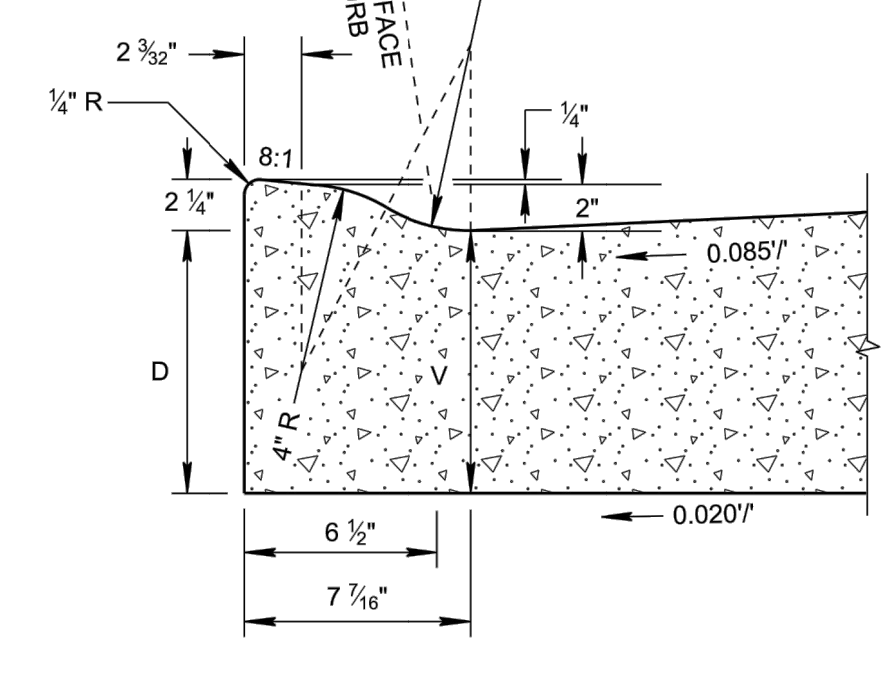
CITY OF KNOXVILLE
DEPARTMENT OF ENGINEERING
STANDARD DETAIL FOR CONCRETE SIDEWALKS
COK-4



6" CONCRETE COMBINED CURB AND GUTTER

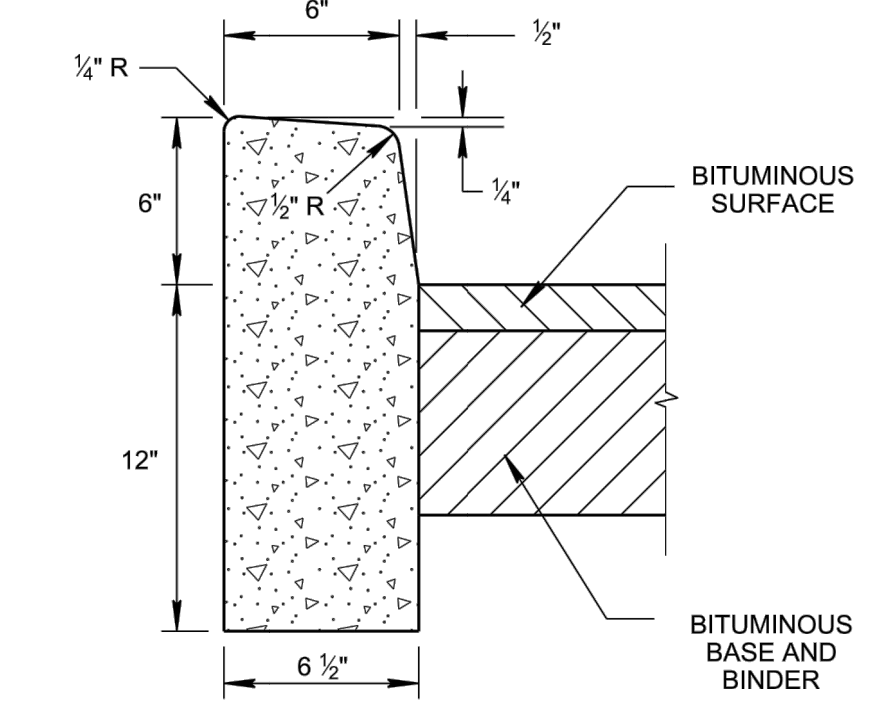
TYPE	TOTAL WIDTH (W) IN INCHES	WIDTH OF GUTTER (WG) IN INCHES	VERTICAL DROP (T) IN INCHES	VERTICAL DEPTH (D) OF GUTTER	VERTICAL DEPTH (V) OF GUTTER AT FLOW LINE
6-30	30	23 1/2	2	AS NOTED ON TYPICAL X-SECTIONS	D - 1.53"
6-36	36	29 1/2	2 1/2		D - 1.91"
6-42	42	35 1/2	3		D - 2.29"

VERTICAL DEPTH (V) MUST ALWAYS EXCEED SIX (6) INCHES.



LOWERED CONCRETE CURB

(L1)	TO BE BUILT AS COMBINED CURB AND GUTTER, DETACHED CURB OR INTEGRAL CURB AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
(L2)	FOR DETACHED CURB, OMIT RADIUS AT FLOW LINE.
(L3)	TO BE USED FOR PROPOSED RAMP OPENINGS.



6" DETACHED CONCRETE CURB

HEIGHT OF CURB	CUBIC YARD PER LINEAR FOOT
LOWERED CURB	0.02534
6"	0.02950

HEIGHT OF CURB	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT
LOWERED CURB	8	30	0.05711	9	30	0.06483	10	30	0.07254	11	30	0.08026	12	30	0.08799
	8	36	0.07085	9	36	0.08011	10	36	0.08934	11	36	0.09860	12	36	0.10786
	8	42	0.08409	9	42	0.09631	10	42	0.10711	11	42	0.11791	12	42	0.12872
6"	8	30	0.06409	9	30	0.07181	10	30	0.07953	11	30	0.08724	12	30	0.09496
	8	36	0.07780	9	36	0.08706	10	36	0.09632	11	36	0.10558	12	36	0.11484
	8	42	0.09151	9	42	0.10329	10	42	0.11409	11	42	0.12489	12	42	0.13570

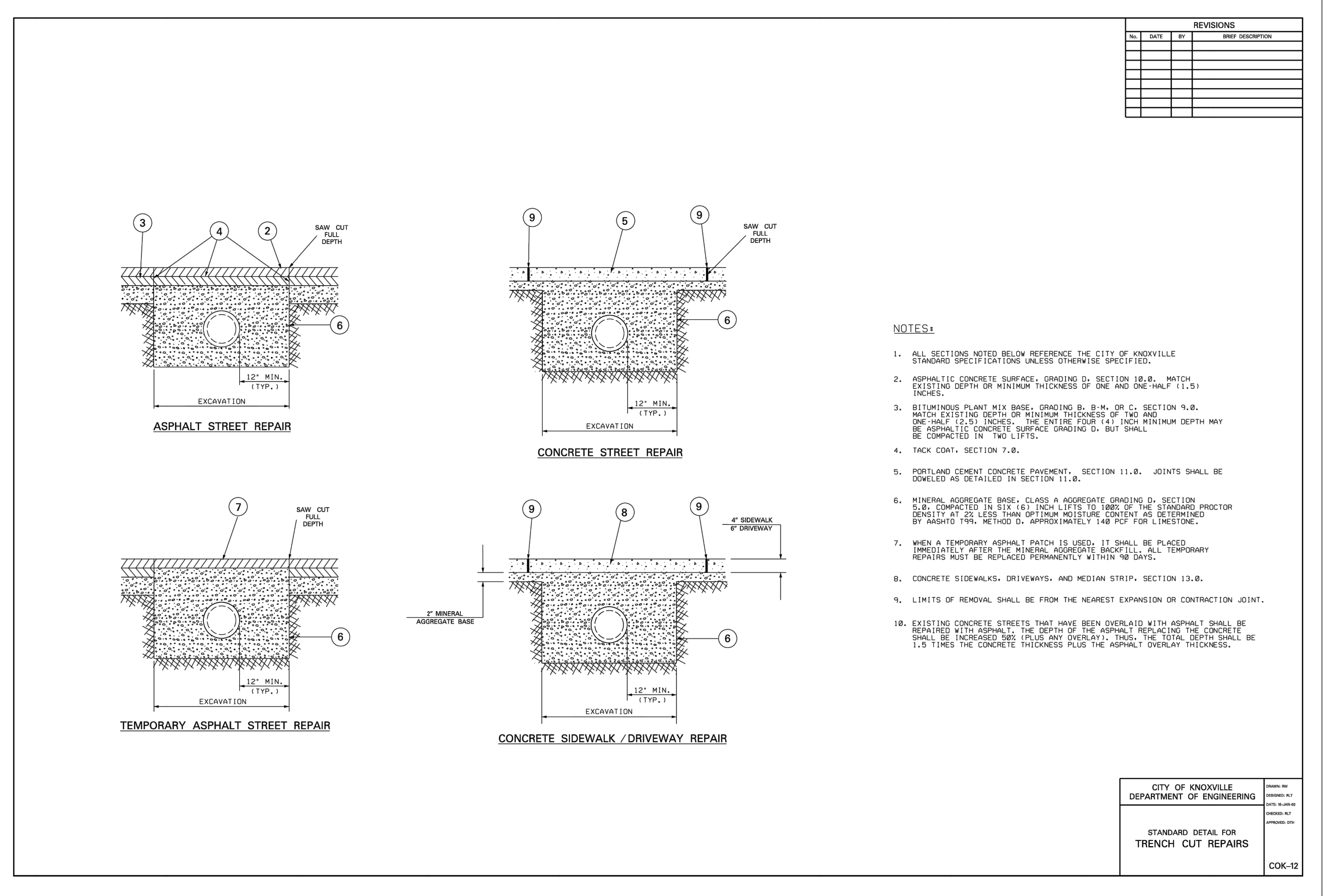
D	VERTICAL DEPTH OF GUTTER
T	VERTICAL DROP IN GUTTER FROM FRONT EDGE TO FACE OF CURB
V	VERTICAL DEPTH OF GUTTER AT FLOW LINE
W	TOTAL WIDTH OF COMBINED CURB AND GUTTER
WG	WIDTH OF GUTTER

(A)	FOR SPECIFICATIONS SEE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION, SECTION 702 - CEMENT CONCRETE CURB, GUTTER AND COMBINED CURB AND GUTTER.	(E)	EDGES OF JOINTS SHALL BE FINISHED ON ONE-QUARTER INCH RADII.
(B)	THE FRONT FACE OF THE CONCRETE CURBS FOR ALL DEGREES OF CURVATURE SHALL CONFORM TO THE CONTOUR OF THE CURVE AND NO CHORD SECTIONS WILL BE PERMITTED.	(F)	ALL COST OF JOINTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS.
(C)	CONCRETE EXPANSION JOINT MATERIAL IS TO BE 3/4" PRE-MOLDED FIBER IN ACCORDANCE WITH SECTION 905 - JOINT MATERIALS OF THE STANDARD SPECIFICATIONS.	(G)	THE UNIT PRICE BID FOR CONCRETE CURB, CONCRETE CURB AND GUTTER AND CONCRETE PAVEMENT WILL INCLUDE ANY CIRCULAR SECTION REQUIRED TO BE BUILT CONFORMING TO SECTIONS SHOWN ON THIS SHEET.
(D)	EXPANSION JOINTS ARE TO BE PLACED AS FOLLOWS: 1. AT TANGENT POINTS OF CIRCULAR CURBS. 2. BETWEEN CURBS AND ABUTTING RIGID OBJECTS. 3. AT OTHER PLACES WHERE STRESSES MAY DEVELOP. 4. TO LINE UP WITH PAVEMENT JOINTS WHERE THE ADJACENT PAVEMENT IS CONCRETE. 5. THE MAXIMUM SPACING IS TO BE 100 FEET.	(H)	PAYMENT WILL BE AS FOLLOWS: ITEM NO. 702-01 CONCRETE CURB, PER CUBIC YARD. ITEM NO. 702-03 CONCRETE COMBINED CURB AND GUTTER, PER CUBIC YARD.
(E)	CONTRACTION JOINTS ARE TO BE SPACED AT 10 FEET. THE SPACING OF 10 FEET MAY BE REDUCED FOR CLOSURES, BUT NOT LESS THAN 6 FEET.		

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION
VERTICAL
CONCRETE CURBS
AND CONCRETE
CURBS AND GUTTERS
05-15-18 RP-VC-10

6/28/2018 8:15:06 AM P:\StandDraw\DESIGN STANDARDS\Standards Drawings\Roadway Drawings\Standards\Curbs\Draft\RPVC10-20180515.dgn

NOT TO SCALE



- REVISIONS
- | NO. | DATE | BY | DESCRIPTION |
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| | | | |
- NOTES:
- ALL SECTIONS REFER BELOW REFERENCE THE CITY OF KNOXVILLE STANDARD SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
 - ASPHALTIC CONCRETE SURFACE, GRADING D, SECTION 10.8. PATCH EXISTING DEPTH OR MINIMUM THICKNESS OF ONE AND ONE-HALF (1.5) INCHES.
 - BITUMINOUS PLANT MIX BASE, GRADING B, B.M. OR C, SECTION 4.8. MATCH EXISTING DEPTH OR MINIMUM THICKNESS OF TWO AND ONE-HALF (2.5) INCHES. THE PATCH FILL SHALL BE COMPACTED TO THE SAME DENSITY AS THE EXISTING PAVEMENT. ALL TACK COAT SHALL BE APPLIED TO THE EXISTING PAVEMENT.
 - TACK COAT, SECTION 7.8.
 - PORTLAND CEMENT CONCRETE PAVEMENT, SECTION 11.8. JOINTS SHALL BE DOWELED AS DETAILED IN SECTION 11.8.
 - MINERAL AGGREGATE BASE, CLASS A AGGREGATE GRADING D, SECTION 4.8. COMPACTED TO 98 PERCENT OF THEORETICAL MAXIMUM DENSITY. THE MINERAL AGGREGATE SHALL BE COMPACTED TO THE SAME DENSITY AS THE EXISTING PAVEMENT. ALL TACK COAT SHALL BE APPLIED TO THE EXISTING PAVEMENT.
 - WHEN A TEMPORARY ASPHALT PATCH IS USED, IT SHALL BE PLACED IMMEDIATELY WITH THE MINERAL AGGREGATE BASE. ALL TEMPORARY REPAIRS MUST BE REPLACED PERMANENTLY WITHIN 90 DAYS.
 - CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIAN STRIP, SECTION 13.8.
 - LIMITS OF REMOVAL SHALL BE FROM THE NEAREST EXPANSION OR CONTRACTION JOINT.
 - EXISTING CONCRETE STREETS THAT HAVE BEEN OVERLAIN WITH ASPHALT SHALL BE REPAIRED WITH ASPHALT. THE DEPTH OF THE ASPHALT REPAIRING THE CONCRETE SHALL BE INCREASED BY THREE (3) TIMES THE TOTAL DEPTH SHALL BE 1.5 TIMES THE CONCRETE THICKNESS PLUS THE ASPHALT OVERLAY THICKNESS.

CITY OF KNOXVILLE
DEPARTMENT OF ENGINEERING
STANDARD DETAIL FOR
TRENCH CUT REPAIRS
COK-12



NOT FOR
CONSTRUCTION

REVISION RECORD

NO.	DATE	DESCRIPTION

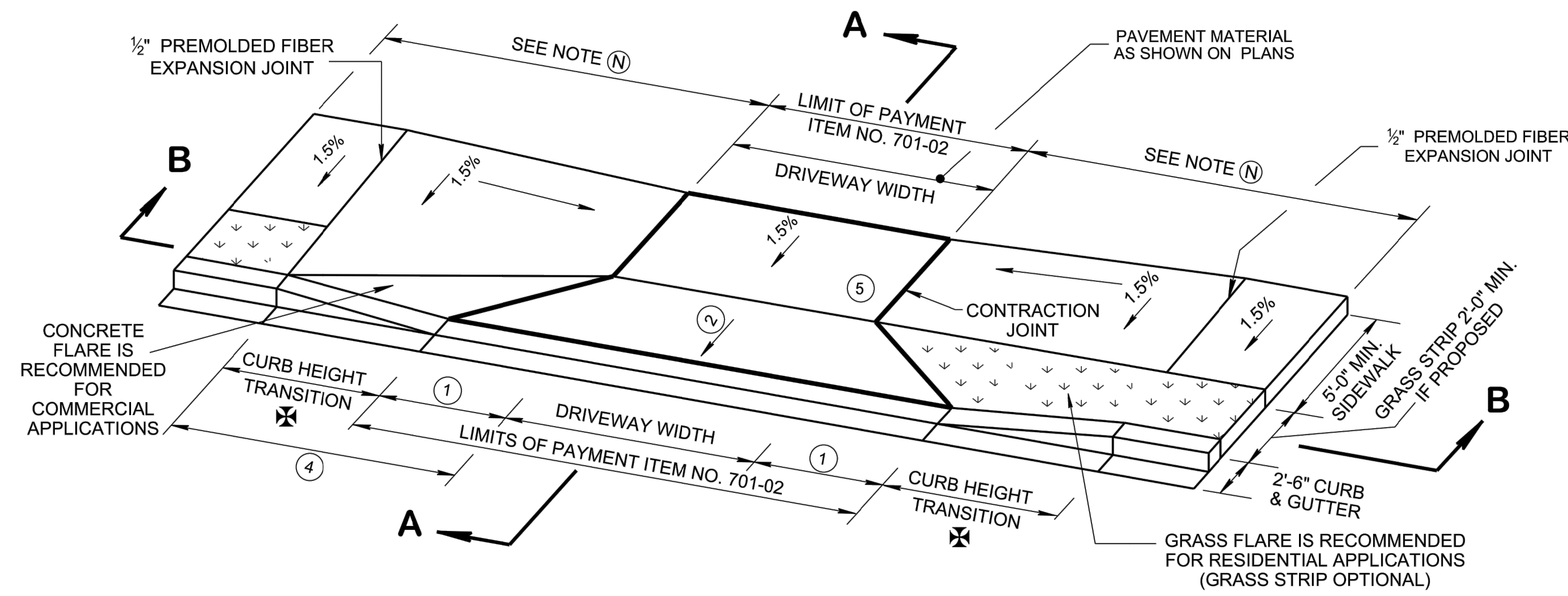
Civil & Environmental Consultants, Inc.
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KNOXVILLE'S COMMUNITY
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KNOXVILLE, KNOX COUNTY, TN

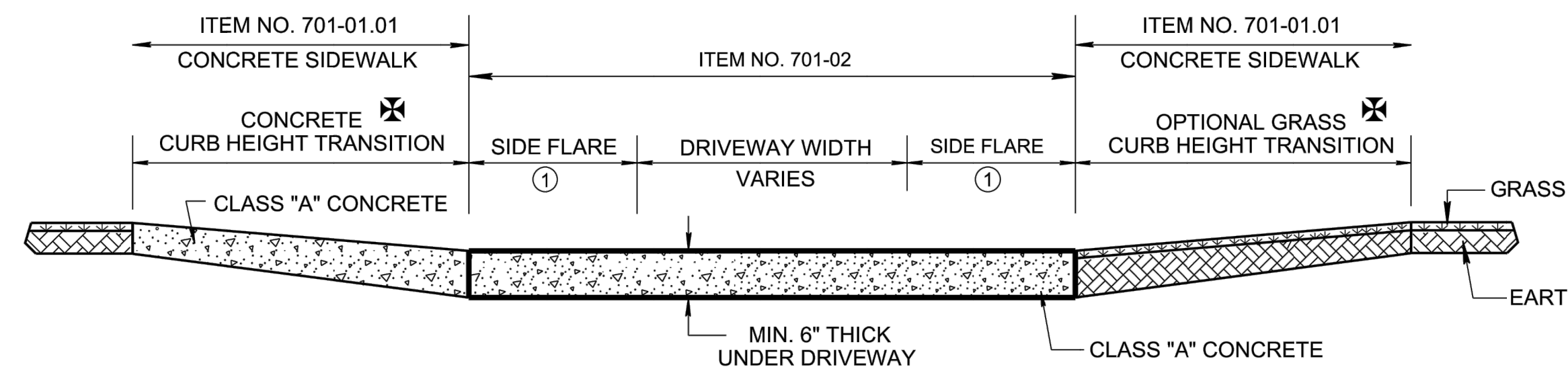
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DATE: FEBRUARY 12, 2020
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PROJECT NO: 194-454
APPROVED BY: GHP

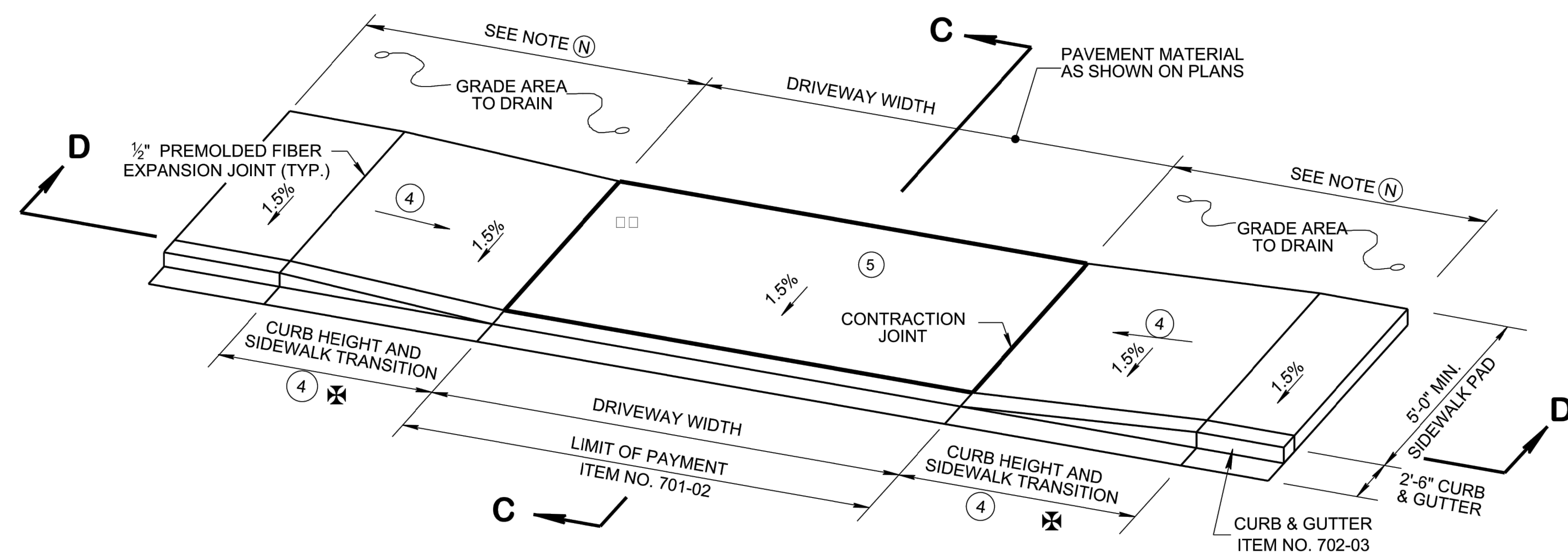
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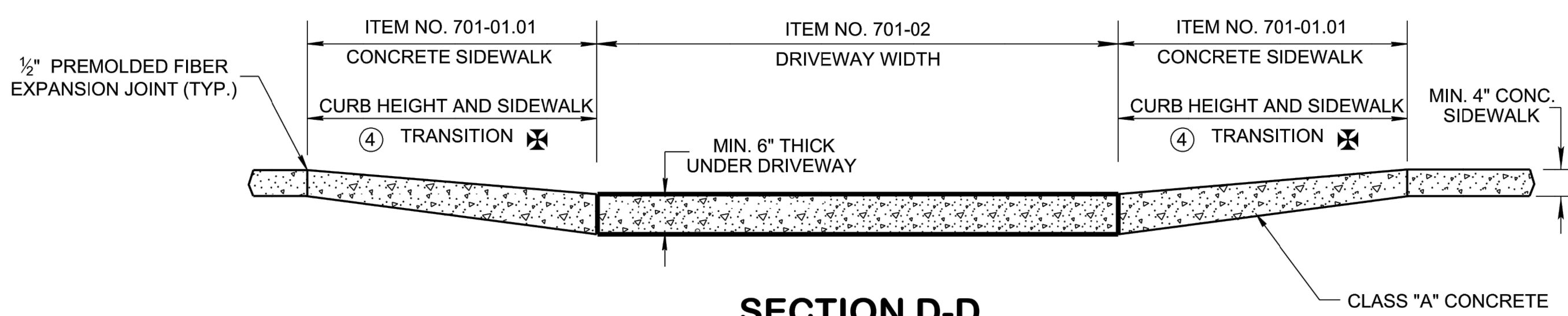
TYPE "B" DRIVEWAY ACROSS LOWERED SIDEWALK (WITH GRASS STRIP)



SECTION B-B



TYPE "C" DRIVEWAY ACROSS LOWERED SIDEWALK



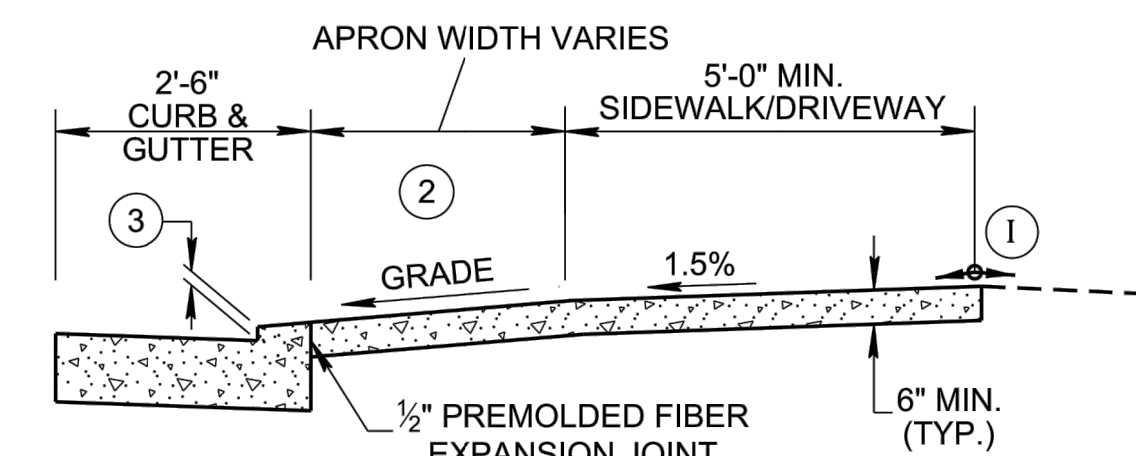
SECTION D-D

LEGEND

⊗ DIMENSION VARIES RELATIVE TO LONGITUDINAL ROADWAY GRADE.

FOOTNOTES

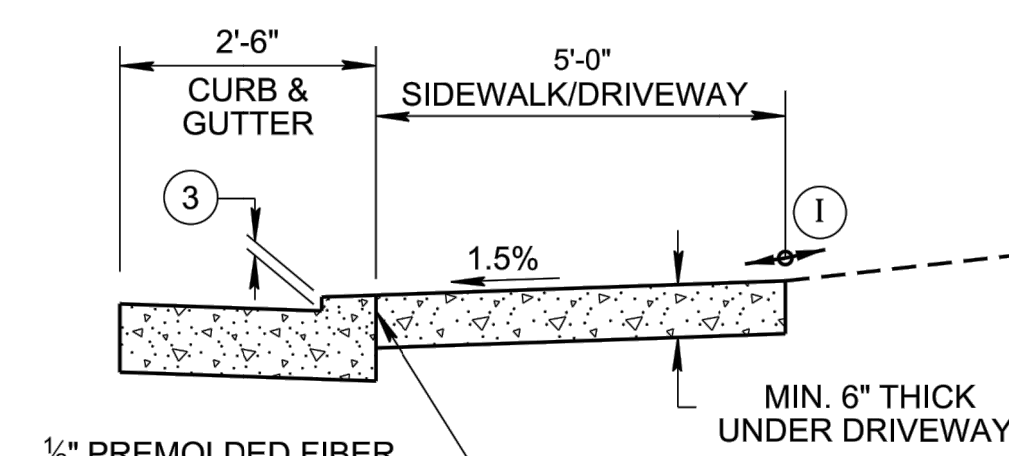
- ① SIDE FLARE WIDTH SHOULD BE A MINIMUM 7'-0" FOR COMMERCIAL DRIVEWAYS. SIDE FLARE WIDTH SHOULD BE A MINIMUM 3'-6" FOR RESIDENTIAL DRIVEWAYS.
- ② DRIVEWAY RAMP GRADE VARIES, 15% MAX. (10% RECOMMENDED) APRON GRADE FOR RESIDENTIAL DRIVEWAYS. 8% MAX. (5% RECOMMENDED) APRON GRADE FOR COMMERCIAL DRIVEWAYS.
- ③ HEIGHT OF LOWERED CURB SHALL BE 2.25 INCHES. SEE STD DWG RP-VC-10 & RP-VC-11.
- ④ THE SLOPE OF THE SIDEWALK AND/OR CURB HEIGHT TRANSITION VARIES TO A MAXIMUM OF 8.33% LENGTH OF TRANSITION IS RELATIVE TO THE LONGITUDINAL ROADWAY GRADE.
- ⑤ COMMERCIAL DRIVEWAY ENTRANCE TYPICALLY (MAX. 40' WIDE) MAY REQUIRE DETECTABLE WARNING SURFACES IF ENTRANCE SERVES MORE THAN 400 VEHICLES PER DAY. SEE STD. DWG. NOS. MM-CR- SERIES FOR DETAILS.
- ⑥ 3R PROJECTS MAY REQUIRE SLOPE CORRECTION, PARALLEL CROSS-WALK MARKINGS (ESPECIALLY AT TWO WAY DRIVEWAY ENTRANCES), AND DETECTABLE DOME SURFACE TO MAINTAIN CONTINUITY AT COMMERCIAL DRIVE ENTRANCES. ADDITIONAL SIGNS (WATCH FOR PED) MAY BE ADDED AT DRIVEWAYS BY THE DIRECTION OF AN ENGINEER IF NEEDED.



SECTION A-A

GENERAL NOTES

- (A) DUE TO THE ELEVATION CHANGE FOR PEDESTRIANS ON THE SIDEWALK, THIS APPLICATION IS UNDESIRABLE AND IS TO BE USED IN LIMITED APPLICATIONS. SEE RP-D-15 FOR THE PREFERRED DRIVEWAY TYPE.
- (B) 5'-0" MINIMUM SIDEWALK WITH A MAXIMUM CROSS SLOPE OF 1.5% THROUGH DRIVEWAYS.
- (C) DESIGNER TO CHECK GUTTER FLOW DEPTH AT DRIVEWAY LOCATIONS TO ASSURE THAT THE DESIGN FLOW DOES NOT OVERTOP THE SIDEWALK AREA. IF OVERTOPPING OCCURS, PLACE AN INLET AT THE UPSTREAM SIDE OF THE DRIVEWAY OR PERFORM OTHER DESIGN MITIGATION.
- (D) THE SLOPE OF THE LANDING AREA SHALL NOT EXCEED 1.5% IN THE SIDEWALK AREA.
- (E) DRIVEWAYS TO BE BUILT COMPLETE OR IN PART AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- (F) ALL CONCRETE DRIVEWAYS TO BE 6" UNIFORM THICKNESS, UNLESS OTHERWISE SHOWN ON PLANS.
- (G) EXPANSION JOINTS TO BE PLACED AS INDICATED ON THE PLANS EXCEPT JOINT AT BACK OF DRIVEWAY WHICH WILL BE PLACED WHEN DRIVEWAY ABUTS A RIGID DRIVEWAY OR BUILDING.
- (H) THE ROADWAY DESIGNER SHALL CONSIDER THE USE OF A CATCH BASIN ON EITHER SIDE OF DRIVEWAY. CAREFUL CONSIDERATION TO THE PLACEMENT OF CATCH BASINS SHALL BE TAKEN IF THE DRIVEWAY IS IN A VERTICAL SAG CURVE.
- (I) ALGEBRAIC DIFFERENCE NOT TO EXCEED 10.0%.
- (J) PAY ITEMS:
ITEM NO: 701-01.01, CONCRETE SIDEWALK (4"), PER SF.
ITEM NO: 701-02, CONCRETE DRIVEWAY, S.F.
ITEM NO: 702-03, CONCRETE COMBINED CURB & GUTTER, C.Y.
- (K) WHEN MORE THAN 2 DRIVEWAYS ARE PROPOSED, USE TYPE "A" DRIVEWAY AS SHOWN ON STANDARD DRAWING RP-D-15 TO REDUCE ROLLER COASTER EFFECT FOR PEDESTRIANS.
- (L) TYPICAL DRIVEWAY WIDTHS ARE 12' (14' TWO WAY) FOR RESIDENTIAL AND 24' (40' MAX.) FOR COMMERCIAL.
- (M) REFER TO SECTION 5.1.3. IN THE MANUAL FOR CONSTRUCTING DRIVEWAY ENTRANCES ON STATE HIGHWAYS (2015) FOR RADIUS OF CURVATURE GUIDANCE.
- (N) ALL SIDEWALKS SHALL HAVE A MINIMUM CONCRETE THICKNESS OF 4".



SECTION C-C

- REV. 7-15-08: UPDATED SIDEWALK DIMENSIONS.
- REV. 4-8-16: ADDED ITEM NUMBERS, UPDATED SLOPES AND DIMENSIONS, UPDATED NOTES.
- REV. 07-16-18: ADDED NOTES TO CONC. FLARE AND GRASS FLARE IN ISOMETRIC VIEW. ADDED GENERAL NOTE (M) & (N).
- REV. 01-07-19: ADDED LIMITS FOR ITEM NO. 701-02. ADJUSTED LOCATION OF GENERAL NOTE NOS. (J) & (N) ON DETAILS. REDREW SHEET.

■ MINOR REVISION -- FHWA APPROVAL NOT REQUIRED

STATE OF TENNESSEE
STANDARD DRAWING
DEPARTMENT OF TRANSPORTATION

DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS

02-15-2007 RP-D-16

NOT FOR CONSTRUCTION

DRAWING NO. **C805**

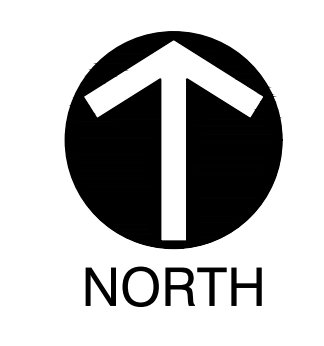
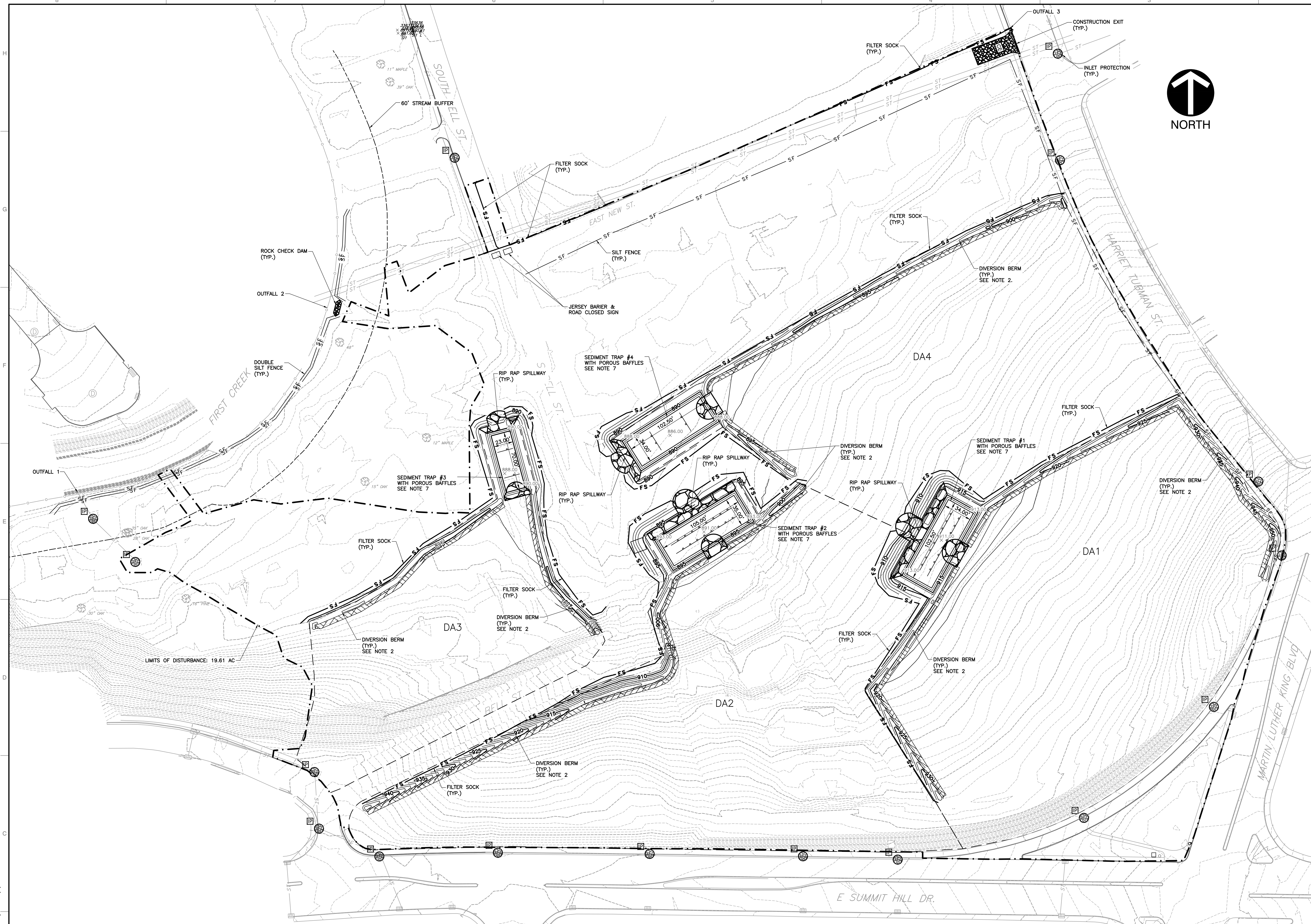
C&E
Civil & Environmental Consultants, Inc.
2704 Cherokee Farm Way - Suite 101 - Knoxville, TN 37920
Ph: 865.977.9957 - Fax: 865.977.9919
www.candec.com

KNOXVILLE'S COMMUNITY DEVELOPMENT CORPORATION
AUSTIN HOMES
INFRASTRUCTURE PACKAGE
KNOXVILLE, KNOX COUNTY, TN

DATE	CRJ/MWB/ASL	MWB	GHP
FEBRUARY 12, 2020	DRAWN BY:		
	AS SHOWN	CHECKED BY:	
		PROJECT NO:	194-594
		APPROVED BY:	

3/8/2019 1:39:01 PM
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NOT TO SCALE



- LEGEND:**
- EXISTING PROPERTY LINE/RIGHT-OF-WAY
 - EXISTING EASEMENT
 - SAN EXISTING SANITARY SEWER LINE
 - CS EXISTING COMBINED SEWER LINE
 - ST EXISTING STORM SEWER LINE
 - UG-E EXISTING UNDERGROUND ELEC. LINE
 - OH-E EXISTING OVERHEAD ELECTRIC
 - ST EXISTING STORM SEWER LINE
 - G EXISTING GAS LINE
 - W EXISTING WATER LINE
 - SS EXISTING SANITARY SEWER LINE
 - P EXISTING POWER POLE
 - L EXISTING LIGHT POLE
 - SI EXISTING STORM INLET
 - V EXISTING WATER VALVE
 - H EXISTING FIRE HYDRANT
 - G EXISTING GAS VALVE
 - 870 EXISTING INDEX CONTOUR
 - 870 EXISTING INTERMEDIATE CONTOUR
 - 870 PROPOSED INDEX CONTOUR
 - 870 PROPOSED INTERMEDIATE CONTOUR
 - --- PROPOSED LIMITS OF DISTURBANCE
 - SF PROPOSED SILT FENCE
 - FS PROPOSED FILTER SOCK
 - --- SEDIMENT TRAP DRAINAGE AREA
 - --- PROPOSED RIP RAP
 - --- PROPOSED SLOPE EROSION CONTROL BLANKET
 - --- PROPOSED CHANNEL EROSION CONTROL MATTING
 - --- PROPOSED CONSTRUCTION EXIT
 - --- PROPOSED ROCK CHECK DAM
 - IP PROPOSED INLET PROTECTION
 - --- TREE PROTECTION FENCING

- GENERAL NOTES**
- TOTAL LIMITS OF DISTURBANCE = 19.25 ACRES
 - DIVERSION BERM FLOWLINES ARE TO BE LINED WITH EROSION CONTROL MATTING (TENSAR NORTH AMERICAN GREEN S0250 OR APPROVED EQUAL).
 - SLOPES LESS THAN 3:1 ARE TO BE STABILIZED WITH TEMPORARY SEEDING.
 - SLOPES GREATER THAN 3:1 ARE TO BE STABILIZED WITH EROSION CONTROL BLANKETS (TENSAR NORTH AMERICAN GREEN S150 OR APPROVED EQUAL).
 - DISTURBANCE WITHIN THE RIPARIAN STREAM BUFFER SHALL BE LIMITED TO THE MINIMUM NECESSARY. NATIVE RIPARIAN VEGETATION MUST BE REESTABLISHED AFTER WORK IS COMPLETED.
 - INSTALL INITIAL EPSC MEASURES AS SHOWN ON PLANS BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING, FILLING, OR ANY OTHER EARTHWORK OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.
 - REMOVE ALL EXISTING SURFACE AND SUBSURFACE DEMOLITION ITEMS SHOWN BENEATH THE PROPOSED SEDIMENT TRAPS AND BERMS PRIOR TO THEIR INSTALLATION.
 - STABILIZE DISTURBED AREAS WITHIN 14 DAYS OF COMPLETING ANY STAGE AND/OR PHASE OF ACTIVITY.
 - MAINTENANCE EROSION AND SEDIMENT CONTROL DEVICES THROUGHOUT THE LIFE OF THE PROJECT.

DRAINAGE AREA/SEDIMENT TRAP DETAILS:

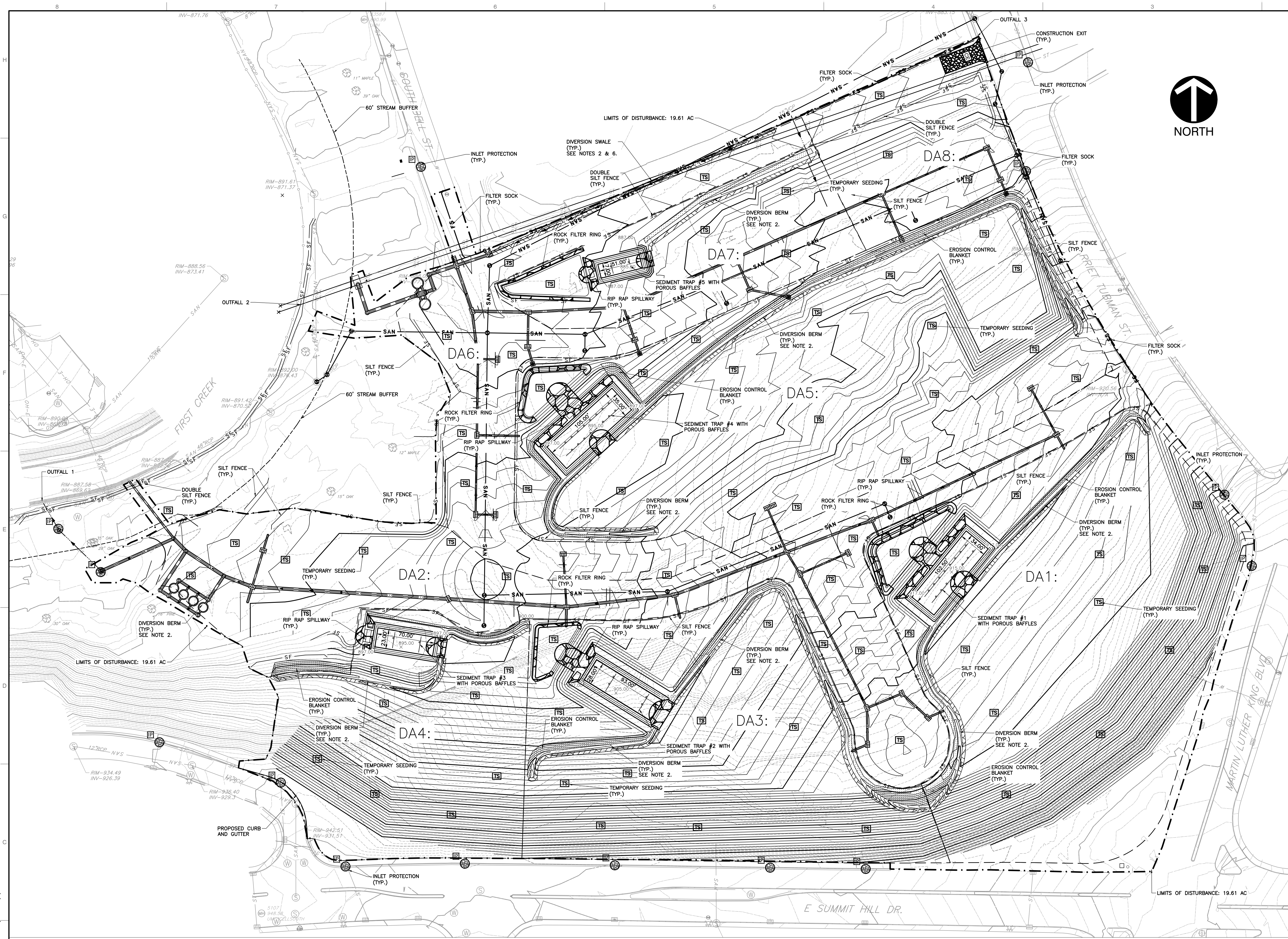
DRAINAGE AREA	ACRES	OUTFALL #	SED TRAP #	WET STORAGE VOLUME (CF.)	DRY STORAGE VOLUME (CF.)	TOTAL DEPTH OF WET AND DRY STORAGE (FT.)	TOP OF EMBANKMENT ELEVATION	EMERGENCY SPILLWAY ELEVATION	BOTTOM WIDTH OF EMERGENCY SPILLWAY (FT.)
DA1	3.85	1	1	6970	8245	4	916.5	915	20
DA2	4.06	1	2	7350	8655	4	896.5	895	20
DA3	1.73	1	3	3220	4103	4	893.5	892	15
DA4	3.12	1	4	6970	8245	4	891.5	890	20



NOT FOR CONSTRUCTION

<p style="text-align: center;">REVISION RECORD</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	DESCRIPTION																															<p style="text-align: center;">CRJ</p> <p style="text-align: center;">Civil & Environmental Consultants, Inc. 2704 Cherokee Farm Way - Suite 101 - Knoxville, TN 37920 Ph: 865.977.9997 - Fax: 865.977.9919 www.cerjinc.com</p> <hr/> <p style="text-align: center;">KNOXVILLE'S COMMUNITY DEVELOPMENT CORPORATION AUSTIN HOMES INFRASTRUCTURE PACKAGE KNOXVILLE, KNOX COUNTY, TN</p> <hr/> <p style="text-align: center;">INITIAL EROSION AND SEDIMENTATION CONTROL PLAN</p> <p style="text-align: center;">DATE: FEBRUARY 12, 2020 DRAWN BY: CRJ/MWB/ASL DWG SCALE: AS SHOWN PROJECT NO: 194-494 APPROVED BY: GHP</p>
NO.	DATE	DESCRIPTION																																

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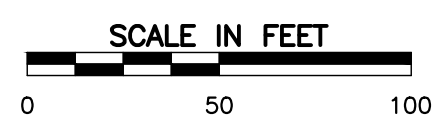


- LEGEND:**
- EXISTING PROPERTY LINE/RIGHT-OF-WAY
 - SF EXISTING STORM SEWER LINE
 - EXISTING INDEX CONTOUR
 - EXISTING INTERMEDIATE CONTOUR
 - 60' STREAM BUFFER
 - 870 PROPOSED INDEX CONTOUR
 - PROPOSED INTERMEDIATE CONTOUR
 - PROPOSED LIMITS OF DISTURBANCE
 - SF PROPOSED SILT FENCE
 - FS PROPOSED DIVERSION SWALE
 - FS PROPOSED FILTER SOCK
 - SEDIMENT TRAP DRAINAGE AREA
 - PROPOSED RIP RAP
 - PROPOSED SLOPE EROSION CONTROL BLANKET
 - PROPOSED CHANNEL EROSION CONTROL MATTING
 - PROPOSED CONSTRUCTION EXIT
 - PROPOSED ROCK CHECK DAM
 - TS PROPOSED TEMPORARY SEEDING
 - IP PROPOSED INLET PROTECTION
 - TREE PROTECTION FENCING

- GENERAL NOTES**
- TOTAL LIMITS OF DISTURBANCE = 19.25 ACRES
 - DIVERSION SWALES AND BERM FLOWLINES ARE TO BE LINED WITH EROSION CONTROL MATTING (TENSAR NORTH AMERICAN GREEN S2500 OR APPROVED EQUAL).
 - SLOPES LESS THAN 3:1 ARE TO BE STABILIZED WITH TEMPORARY SEEDING.
 - SLOPES GREATER THAN 3:1 ARE TO BE STABILIZED WITH EROSION CONTROL BLANKETS (TENSAR NORTH AMERICAN GREEN S150 OR APPROVED EQUAL).
 - UTILIZE FILTER LOGS ON GRADED ROADWAYS AS NEEDED AS A TEMPORARY MEASURE TO REDUCE RUNOFF VELOCITY.
 - DIVERSION SWALES ARE TO BE A MINIMUM OF 1.5' DEEP WITH 3:1 SIDE SLOPES. UTILIZE FILTER SOCKS AT LEAST EVERY 75' WITHIN THE DIVERSION SWALES IN ADDITION TO THE EROSION CONTROL MATTING.
 - DISTURBANCE WITHIN THE RIPARIAN STREAM BUFFER SHALL BE LIMITED TO THE MINIMUM NECESSARY. NATIVE RIPARIAN VEGETATION MUST BE REESTABLISHED AFTER WORK IS COMPLETED.
 - STABILIZE DISTURBED AREAS WITHIN 14 DAYS OF COMPLETING ANY STAGE AND/OR PHASE OF ACTIVITY
 - MAINTAIN EROSION AND SEDIMENT CONTROL DEVICES THROUGHOUT THE LIFE OF THE PROJECT.

DRAINAGE AREA/SEDIMENT TRAP DETAILS:

DRAINAGE AREA	ACRES	OUTFALL #	SED TRAP #	WET STORAGE VOLUME (CF)	DRY STORAGE VOLUME (CF)	TOTAL DEPTH OF WET AND DRY STORAGE (FT.)	TOP OF EMBANKMENT ELEVATION	EMERGENCY SPILLWAY ELEVATION	BOTTOM WIDTH OF EMERGENCY SPILLWAY (FT.)
DA1	3.85	1	1	6870	8245	4	920.5	919	20
DA2	2.70	1	-	-	-	-	-	-	-
DA3	2.85	1	2	5208	6472	4	910.5	909	15
DA4	1.75	1	3	3220	4103	4	900.5	899	20
DA5	4.06	2	4	7350	8655	4	900.5	899	15
DA6	1.74	2	-	-	-	-	-	-	-
DA7	0.95	2	5	1734	2391	4	890.5	889	10
DA8	0.9	3	-	-	-	-	-	-	-



NOT FOR CONSTRUCTION

REVISION RECORD

NO.	DATE	DESCRIPTION

Civil & Environmental Consultants, Inc.
 2704 Cherokee Farm Way - Suite 101 - Knoxville, TN 37920
 Ph: 865.977.9997 - Fax: 865.977.9919
 www.cedinc.com

**KNOXVILLE'S COMMUNITY DEVELOPMENT CORPORATION
 AUSTIN HOMES
 INFRASTRUCTURE PACKAGE
 KNOXVILLE, KNOX COUNTY, TN**

INTERIM EPSC PLAN

DATE: FEBRUARY 12, 2020
 DRAWN BY: CRJ/MWB/ASL
 DWG SCALE: AS SHOWN
 PROJECT NO: 194-594
 APPROVED BY: GHP

DRAWING NO. C901

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PERMANENT SEEDING MIXTURES		
SEEDING DATES	GRASS SEED	PERCENTAGES
FEBRUARY 1 TO JULY 1	KENTUCKY 31 FESCUE	88%
	ENGLISH RYE	12%
JUNE 1 TO AUGUST 15	KENTUCKY 31 FESCUE	60%
	ENGLISH RYE	25%
AUGUST 1 TO DECEMBER 1	GERMAN MILLET	15%
	KENTUCKY 31 FESCUE	70%
	ENGLISH RYE	20%
DECEMBER 1 TO FEBRUARY 1	WHITE CLOVER	10%
	KENTUCKY 31 FESCUE	83%
	ENGLISH RYE	17%

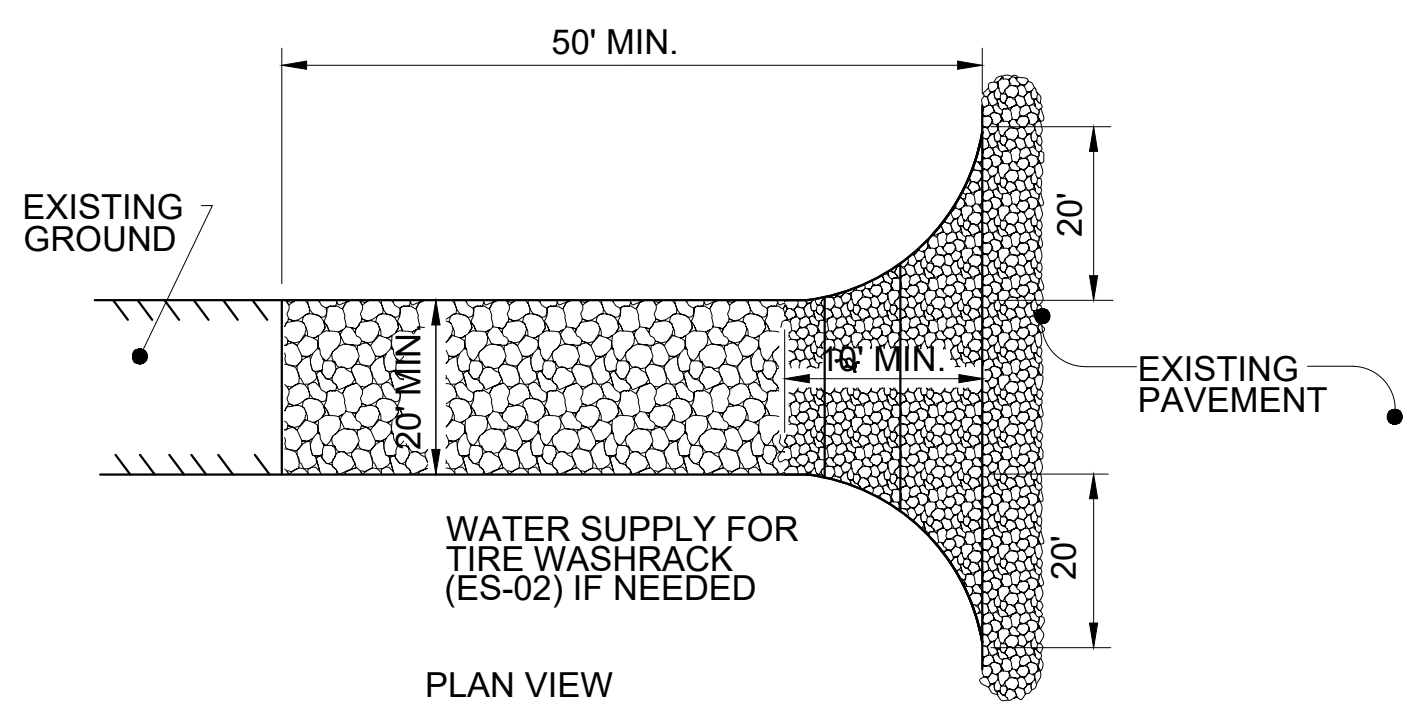
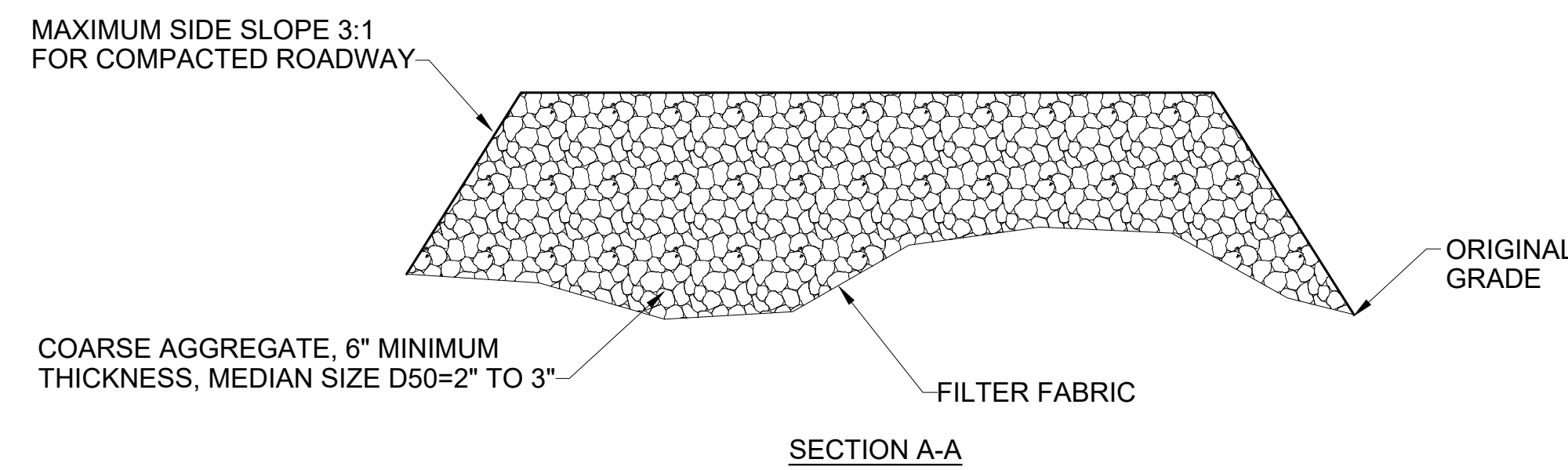
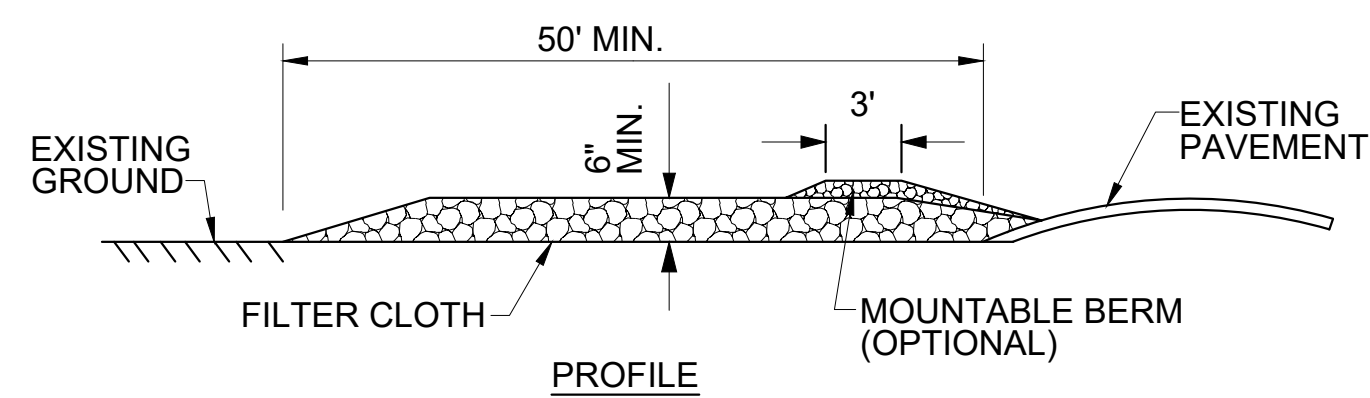
SOURCE TDOT STANDARDS SPECIFICATIONS

TEMPORARY SEEDING MIXTURES		
SEEDING DATES	GRASS SEED	PERCENTAGES
JANUARY 1 TO MAY 1	ITALIAN RYE	50%
	SUMMER OATS	50%
MAY 1 TO JULY 15	SUDAN-SORGHUM	100%
MAY 1 TO JULY 15	STARR MILLET	100%
JULY 15 TO JANUARY 1	BALBOA RYE	67%
	ITALIAN RYE	33%

SOURCE TDOT STANDARDS SPECIFICATIONS

SEEDING SCHEDULE
N.T.S.

TS

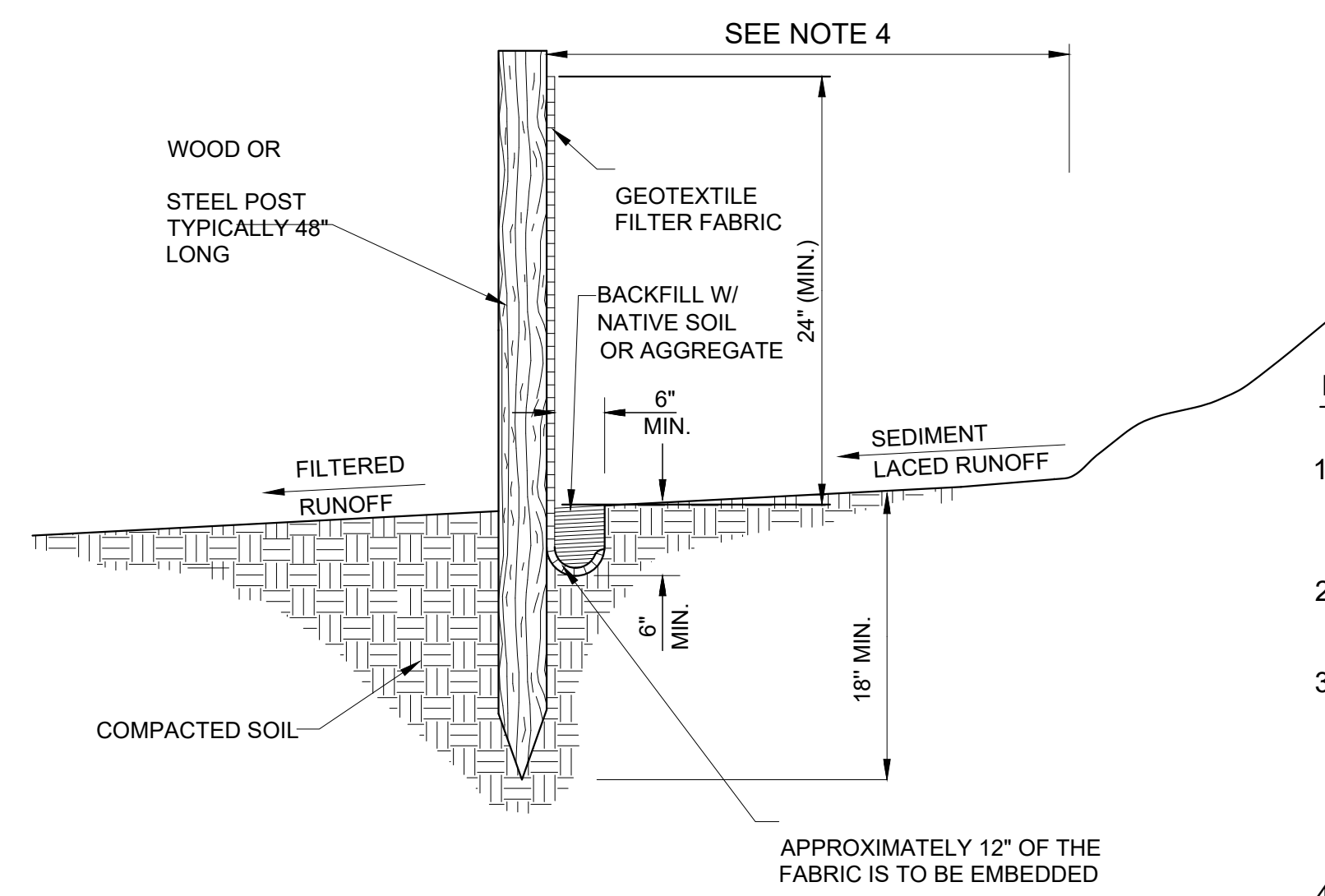
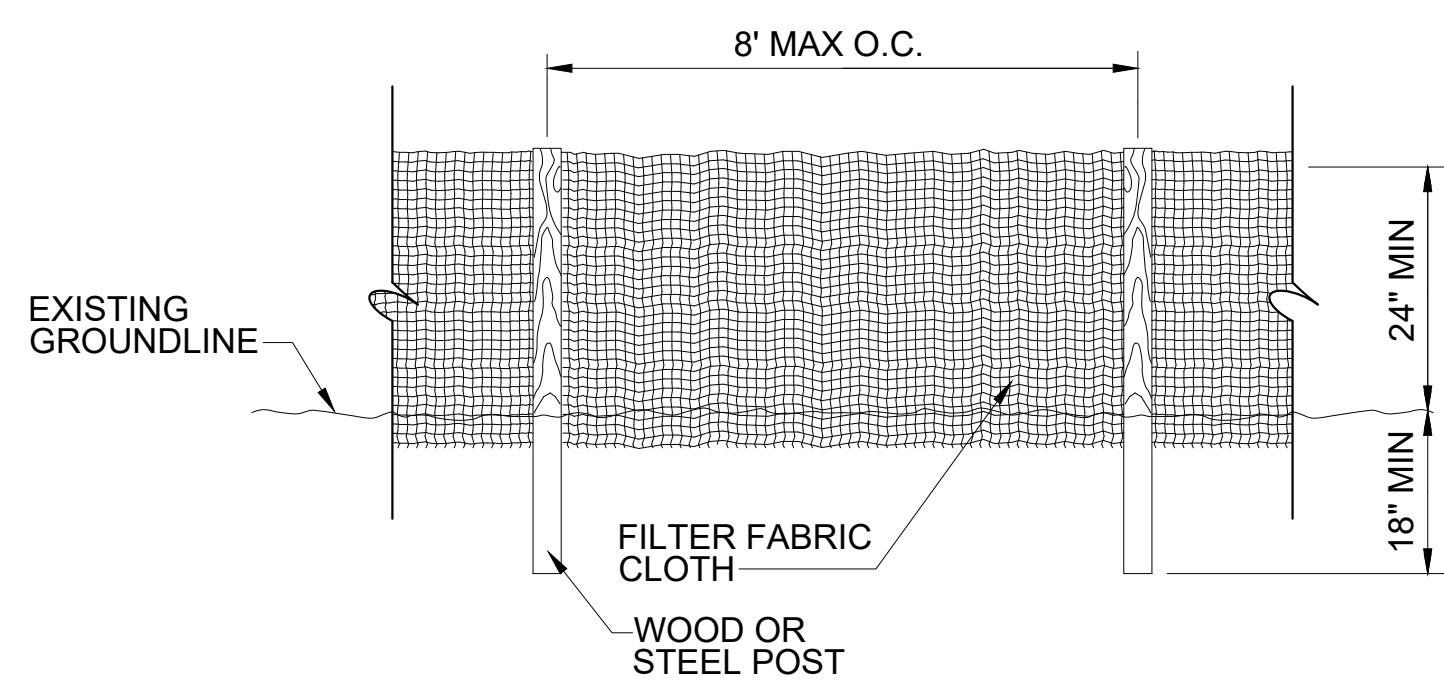


CONSTRUCTION SPECIFICATIONS

1. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET.
2. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
3. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 20 FEET, WHICHEVER IS GREATER.
4. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
5. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

CONSTRUCTION EXIT DETAIL
N.T.S.

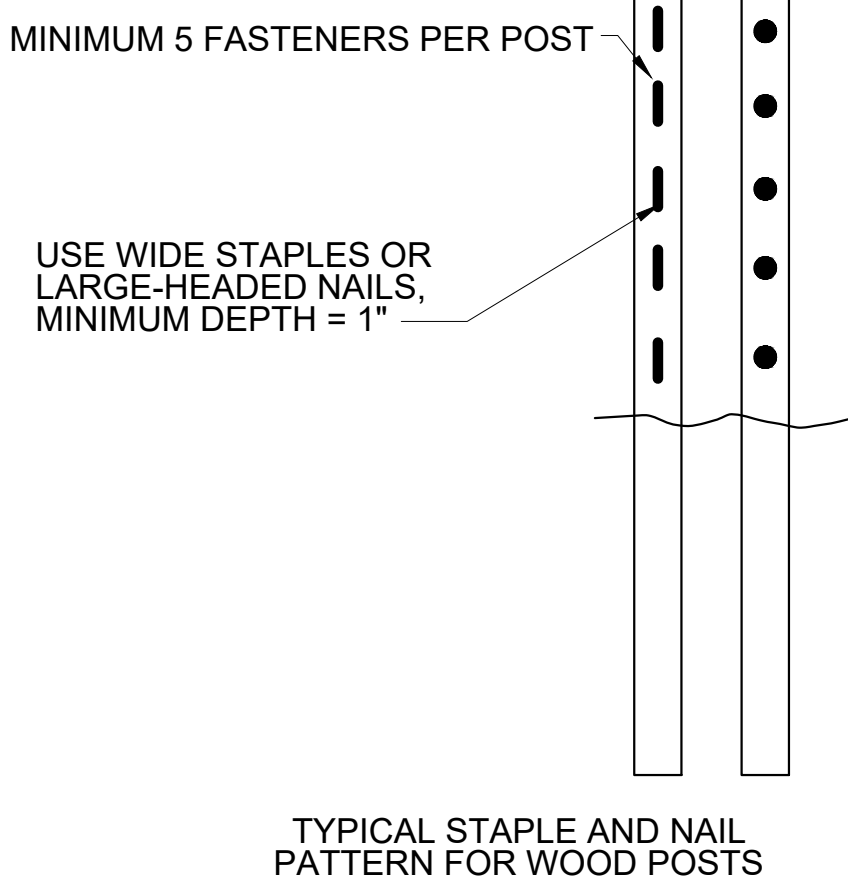
CE



SILT FENCE
N.T.S.

NOTES:

1. FILTER CLOTH SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATION FOR GEOTEXTILES AASHTO DESIGNATION: M288, SEDIMENT CONTROL, SELF SUPPORTED.
2. WOOD POSTS ARE TYPICALLY 2"x2" OAK AND OTHER HARD WOODS. A LARGER POST IS NECESSARY FOR SOFT WOODS (4"x4").
3. FASTENERS FOR WOOD POSTS SHOULD BE EITHER WIRE STAPLES OR NAILS. THERE SHALL BE A MINIMUM OF 5 FASTENERS FOR EACH WOOD POST. USE MINIMUM SIZE 17-GAUGE STAPLES WITH A MINIMUM EMBEDDED LENGTH OF 1 INCH INTO THE WOOD AND A MINIMUM WIDTH OF 3/4 INCH ACROSS. TYPICAL NAIL SIZE IS 1 INCH LONG WITH OVERSIZED NAIL HEAD. FABRIC SHALL NOT BE ATTACHED TO EXISTING TREES.
4. PLACE SILT FENCE AT LEAST 5 TO 7 FEET AWAY FROM STEEP OR LONG SLOPES TO IMPOUND STORMWATER RUNOFF.



TYPICAL STAPLE AND NAIL PATTERN FOR WOOD POSTS

SF

FLEXSTORM CATCH-IT FILTERS FOR TEMPORARY INLET PROTECTION
PRODUCT SELECTION AND SPECIFICATION DRAWING

Product selection for FLEXSTORM CATCH-IT Filters (Temporary Inlet Protection)								
TDOT Standard	JR HOE Catalog #	JBS Catalog #	Inlet Type	Grate Size	Opening Size	Bag Cap. (ft³)	FX Flow Ratings (CFS)	ADS P/N
TDOT std. #12, #10, #25, #41		3123	Curb Box (CB)	36.25 x 21.75	32.0 x 17.75	3.4	2.0	62LCBFX
TDOT std. #18		3061	Square/Rect (SQ)	24.875 x 26.25 (x2)	48 x 24	6.2	3.8	62XLSQFX
	HOE 518	4254	Square/Rect (SQ)	24 x 36	22 x 34	3.5	2.4	62LSQ2436FX
	HOE 525	3080	Curb Box (CB)	35.5 x 17.5	33.0 x 16.0	3.8	2.2	62LCBEXTFX
Nashville, TN std. CB		3300	Curb Box (CB)	31.375 x 21.375	29.5 x 19.0	3.3	2.0	62LCBFX
	HOE 280	4075	Square/Rect (SQ)	24 x 24	22 x 22	2.2	1.8	62MS22QFX
Memphis TN std. #10		4190	Square/Rect (SQ)	25.75 x 25.75	23.75 x 23.75	3.1	1.9	62MSQFX
	4220/4330		Square/Rect (SQ)	27.75 x 27.75	26 x 26	5.0	2.3	62LSQFX
Metro Nashville std.	HOE 568	4300/4310/4315	Square/Rect (SQ)	31.5 x 31.5	30.0 x 30.0	5.4	2.5	62XLSQFX
TDOT std. #42	HOE 595	4200/4260	Square/Rect (SQ)	35.5 x 35.5	33.25 x 33.25	6.1	2.6	62XLSQFX

NOTES:
1. ALL FRAMING IS CONSTRUCTED OF CORROSION RESISTANT STEEL FRAMING FOR PROLONGED PRODUCT LIFE.
2. TOTAL BYPASS CAPACITY WILL VARY WITH EACH SIZED DRAINAGE STRUCTURE. FLEXSTORM DESIGNS FRAMING TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE STRUCTURE. CONCRETE STRUCTURES MAY REQUIRE ADDITIONAL REVIEW.
3. UPON ORDERING THE ADS P/N CONFIRMATION OF THE DOT CALLOUT, FLEXSTORM ITEM CODE, CASTING MAKE AND MODEL, OR DETAILED DIMENSIONAL FORMS MUST BE PROVIDED.
4. FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT WWW.INLETFILTERS.COM

INSTALLATION:
1. REMOVE GRATE
2. DROP FLEXSTORM INLET FILTER INTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
3. REPLACE GRATE

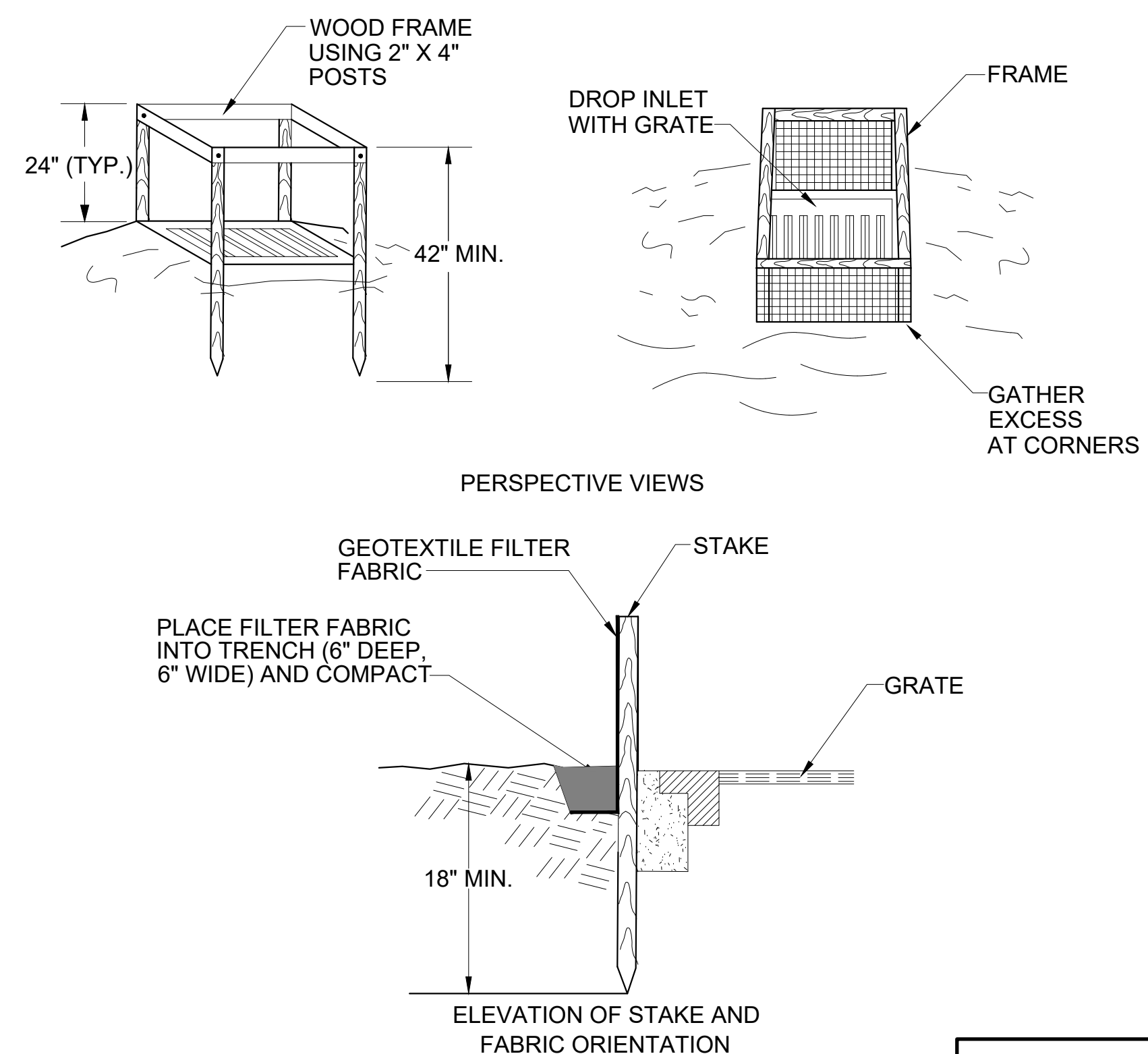
ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC A DIVISION OF ADS, INC
WWW.INLETFILTERS.COM
(866) 287-8655 PH
(630) 355-3477 FX
INFO@INLETFILTERS.COM

STORM INLET INSERT DETAIL
N.T.S.

IP

EROSION AND SEDIMENT CONTROL NOTES:

1. A SPECIFIC INDIVIDUAL SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS ON PROJECT SITE. THIS INDIVIDUAL MUST HAVE COMPLETED THE FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL COURSE OR AN EQUIVALENT COURSE.
2. REFER TO THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK FOR DESIGN CRITERIA AND GUIDELINES FOR EROSION CONTROL MEASURES.
3. CLEARING AND GRUBBING MUST BE HELD TO THE MINIMUM NECESSARY FOR GRADING AND EQUIPMENT OPERATION.
4. CONSTRUCTION MUST BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF CLEARED SURFACE AREA.
5. CONSTRUCTION STAGING AND PHASING IS CRITICAL TO REDUCING SEDIMENT RUNOFF FROM SITE.
6. EROSION CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN AND MUST BE PROPERLY CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
7. ALL EROSION CONTROL MEASURES SHALL BE CHECKED TWICE WEEKLY AND AFTER EACH RAINFALL. CHECK DAILY DURING PROLONGED RAINFALL.
8. CONSTRUCTION DEBRIS MUST BE KEPT FROM ENTERING THE STORM MANAGEMENT SYSTEM.
9. STOCKPILED SOIL SHALL BE PROTECTED AND LOCATED FAR ENOUGH FROM STREAMS AND DRAINAGEWAYS SO THAT RUNOFF CANNOT CARRY SEDIMENT DOWNSTREAM.
10. VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 10 CALENDAR DAYS PRIOR TO GRADING.
11. TEMPORARY SOIL STABILIZATION WITH APPROPRIATE ANNUAL VEGETATION IS REQUIRED WHEN GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND ON SOIL STOCKPILES.
12. PERMANENT SOIL STABILIZATION WITH PERENNIAL VEGETATION IS REQUIRED WHEN GRADING OPERATIONS ARE COMPLETE AND/OR CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. CONTRACTOR SHALL INSPECT THE SITE PERIODICALLY TO REPAIR AND RE-ESTABLISH VEGETATION TO DAMAGED AREAS.
13. STAKED AND ENTRENCHED SILT FENCE MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDES OF STOCKPILED SOIL, AND ALONG STREAM BANKS IN CLEARED AREAS TO PREVENT EROSION INTO STREAMS. SILT FENCE MAY BE REMOVED AT THE BEGINNING OF THE WORK DAY, BUT MUST BE REPLACED AT THE END OF THE WORK DAY OR PRIOR TO FORECASTING RAIN EVENTS.
14. WHERE APPROPRIATE, SURFACE WATER FLOWING TOWARD CONSTRUCTION AREA SHALL BE DIVERTED AROUND THE CONSTRUCTION AREA USING DIKES, TO REDUCE EROSION POTENTIAL.
15. ALL ROCK SHALL BE CLEAN, HARD ROCK CONTAINING NO SAND, DUST, OR ORGANIC MATERIAL.
16. CONTRACTOR SHALL MAINTAIN SILT FENCES AND OTHER EROSION CONTROL DEVICES FOR THE DURATION OF THE PROJECT, TO ENSURE EFFECTIVENESS, UNTIL ACCEPTED BY THE OWNER, AT NO ADDITIONAL EXPENSE TO THE OWNER. IF CONSTRUCTION ACTIVITIES CEASE DUE TO WEATHER RELATED CAUSES, THEN THE CONTRACTOR WILL ENSURE THAT THE SITE IS PROPERLY STABILIZED AND ALL EROSION CONTROL DEVICES ARE MAINTAINED AND FUNCTIONAL DURING THOSE PERIODS OF INACTIVITY.
17. CONSTRUCTION EXIT - CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION EXIT PRIOR TO ANY EARTHWORK OPERATIONS. CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD TO PUBLIC RIGHTS-OF-WAYS. ALL MATERIAL SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES OR SITE ONTO ADJACENT ROADWAYS SHALL BE REMOVED IMMEDIATELY FROM THE ROADWAY.
18. CONTRACTOR IS RESPONSIBLE FOR CLEANING OUT AND PROPER DISPOSAL OF ALL DEBRIS WITHIN THE STORM DRAINAGE STRUCTURES, INCLUDING SILT FROM FLUMES, PIPES, ECT., PRIOR TO COMPLETION OF THE PROJECT.
19. MEASURES SHOWN FOR SEDIMENT AND EROSION CONTROL REPRESENT THE MINIMUM ANTICIPATED. ADDITIONAL PROTECTION SHALL BE PROVIDED AS NECESSARY THAT WILL PREVENT SEDIMENT FROM LEAVING THE SITE DUE TO UNFORESEEN CONDITIONS OR ACCIDENTS.
20. THE GRADING CONTRACTOR AND BUILDING CONTRACTOR WILL REFRAIN FROM DOING ANY WORK OUTSIDE OF THE DELINEATED LIMITS OF DISTURBANCE.
21. ROADS SHALL BE STABILIZED BY APPLYING STONE ONCE SUBGRADE ELEVATION IS ACHIEVED.
22. ALL SILT FENCE IS TO BE TYPE A EXCEPT WHERE SPECIFIED DIFFERENTLY.
23. EROSION CONTROL MATTING TO BE JUTE MESH (OR APPROVED EQUAL) AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.



SILT FENCE DROP INLET DETAIL
N.T.S.

IP

NOT FOR CONSTRUCTION

DRAWING NO.

C903

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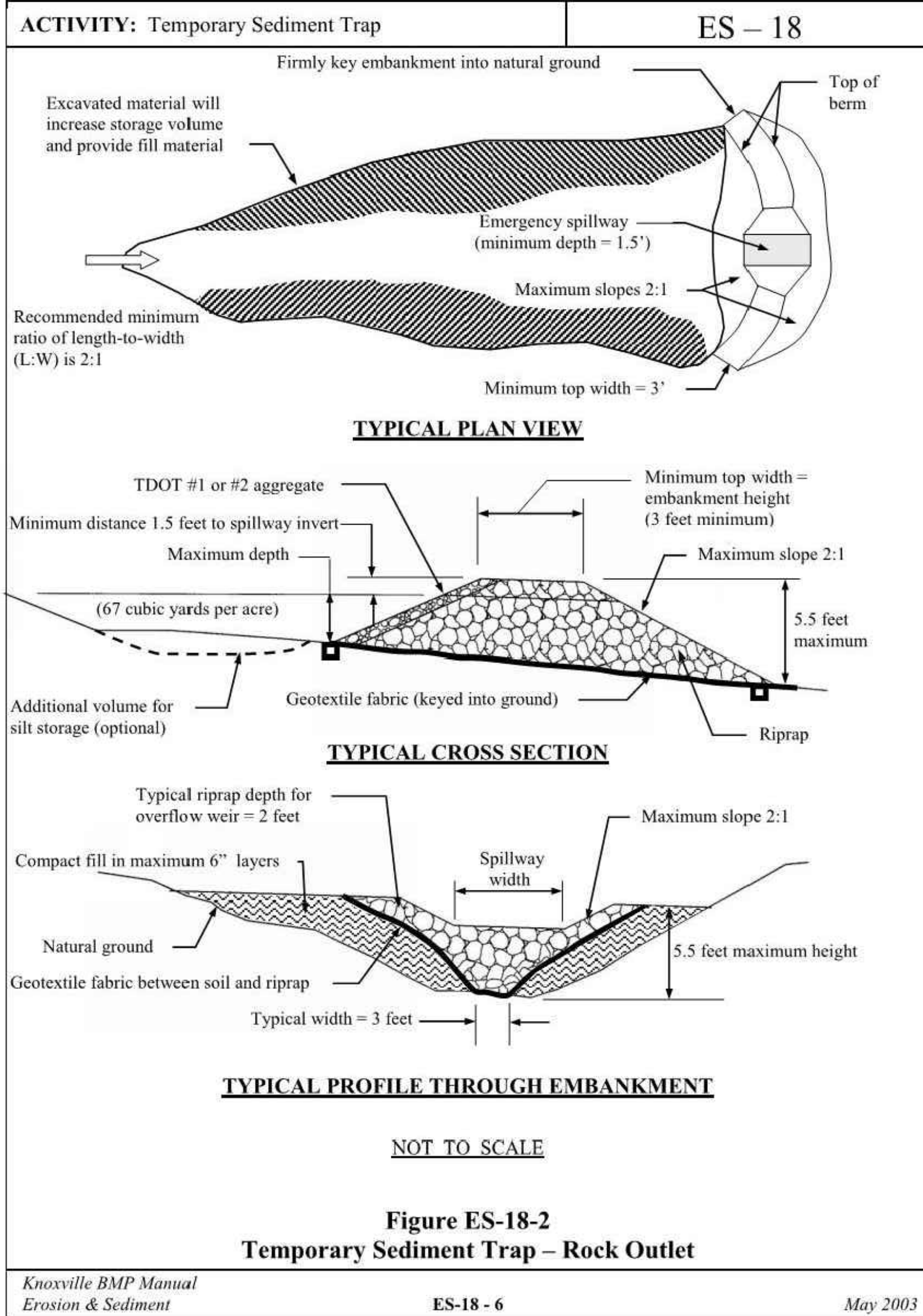
REVISION RECORD

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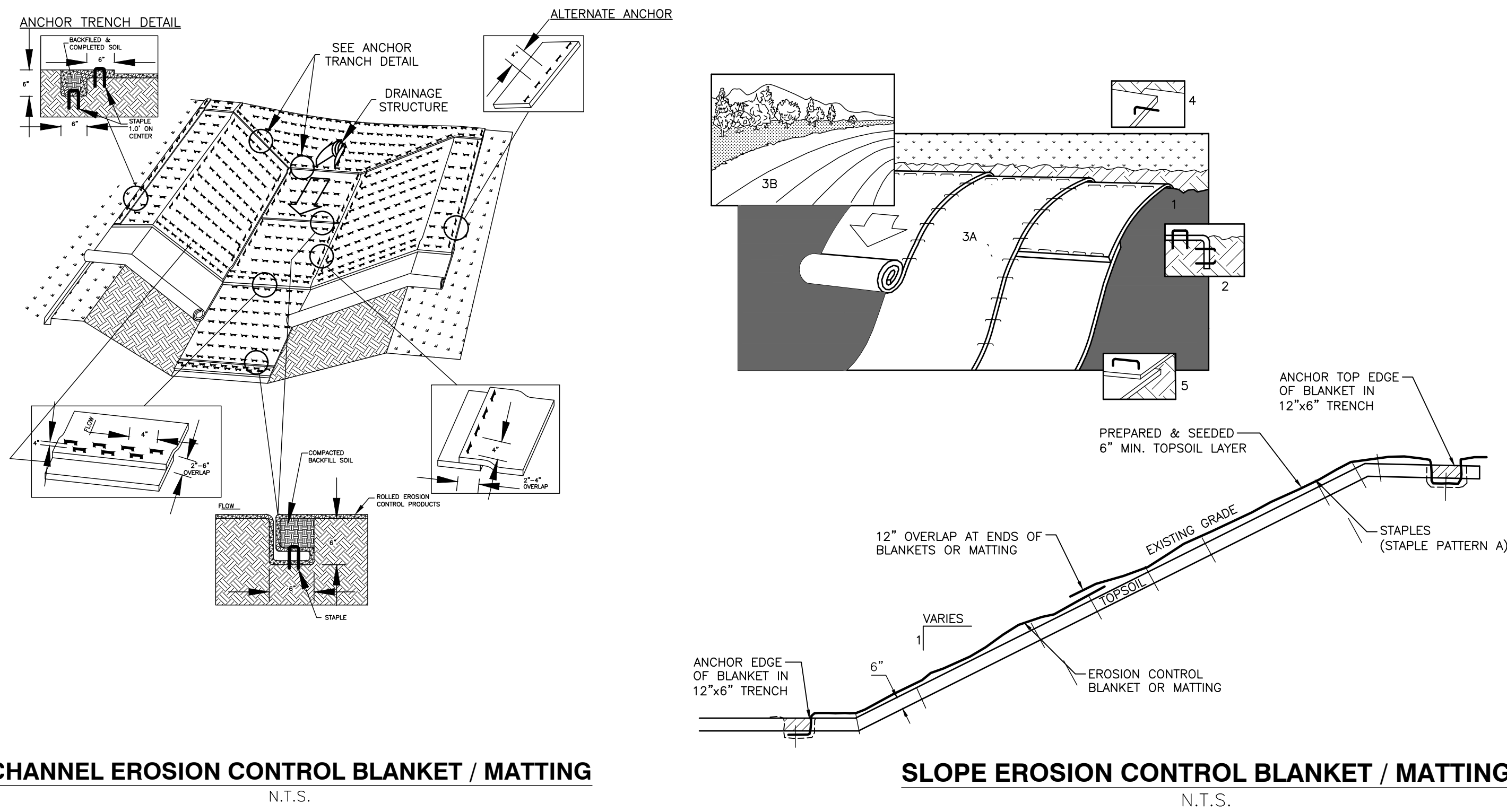
EPSC DETAILS

FEBRUARY 12, 2020 DRAWN BY: CRJ/MWB/ASL
DATE: FEBRUARY 12, 2020
DWG SCALE: 1"=10'-0" M/WB
PROJECT NO: 194-454
APPROVED BY: GHP

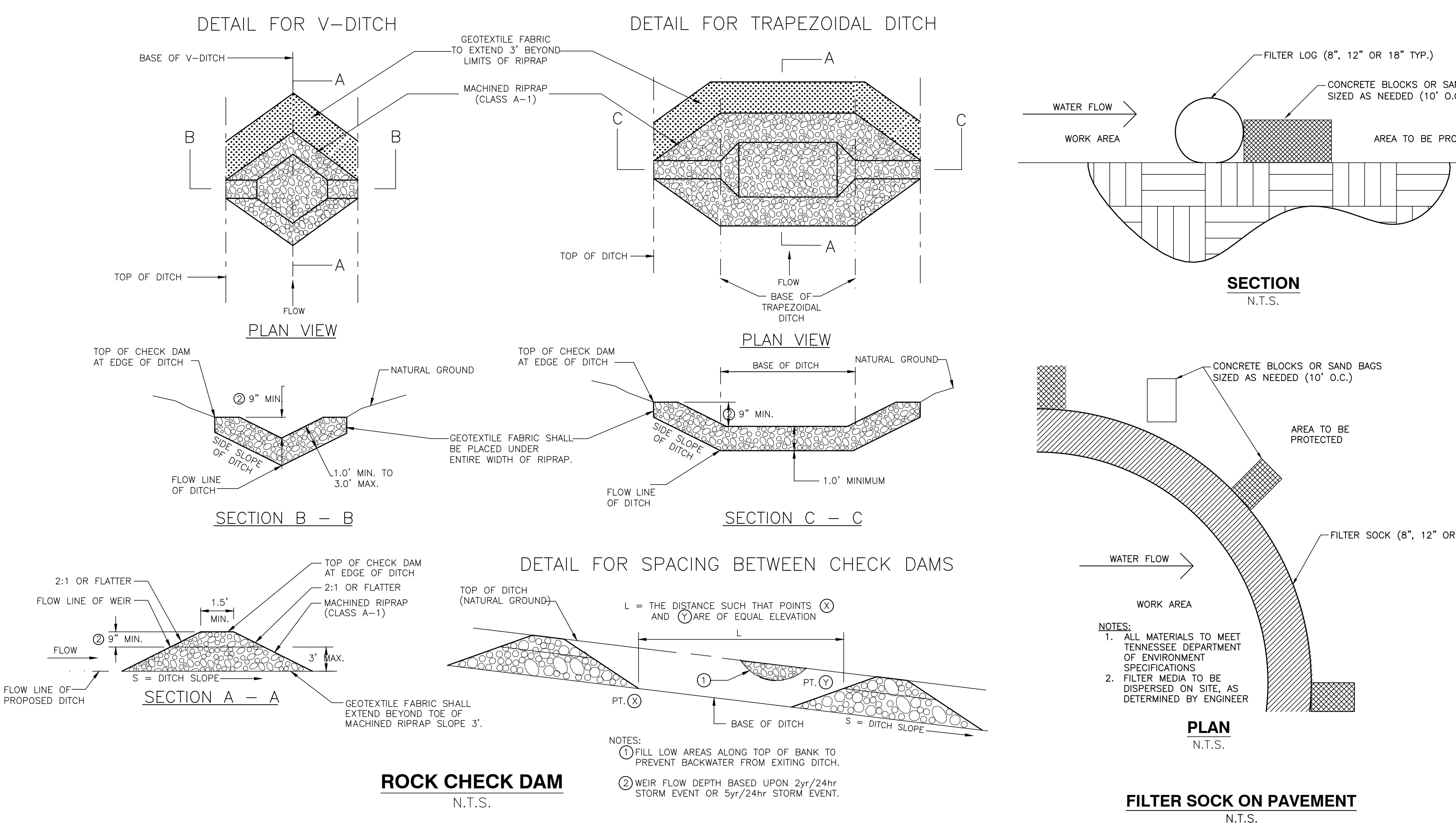
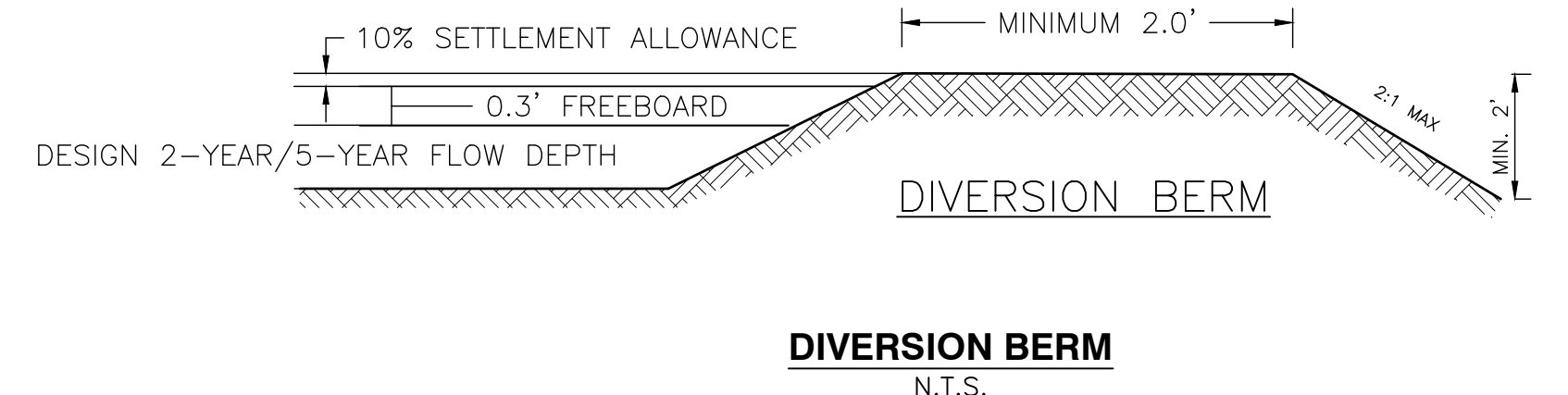
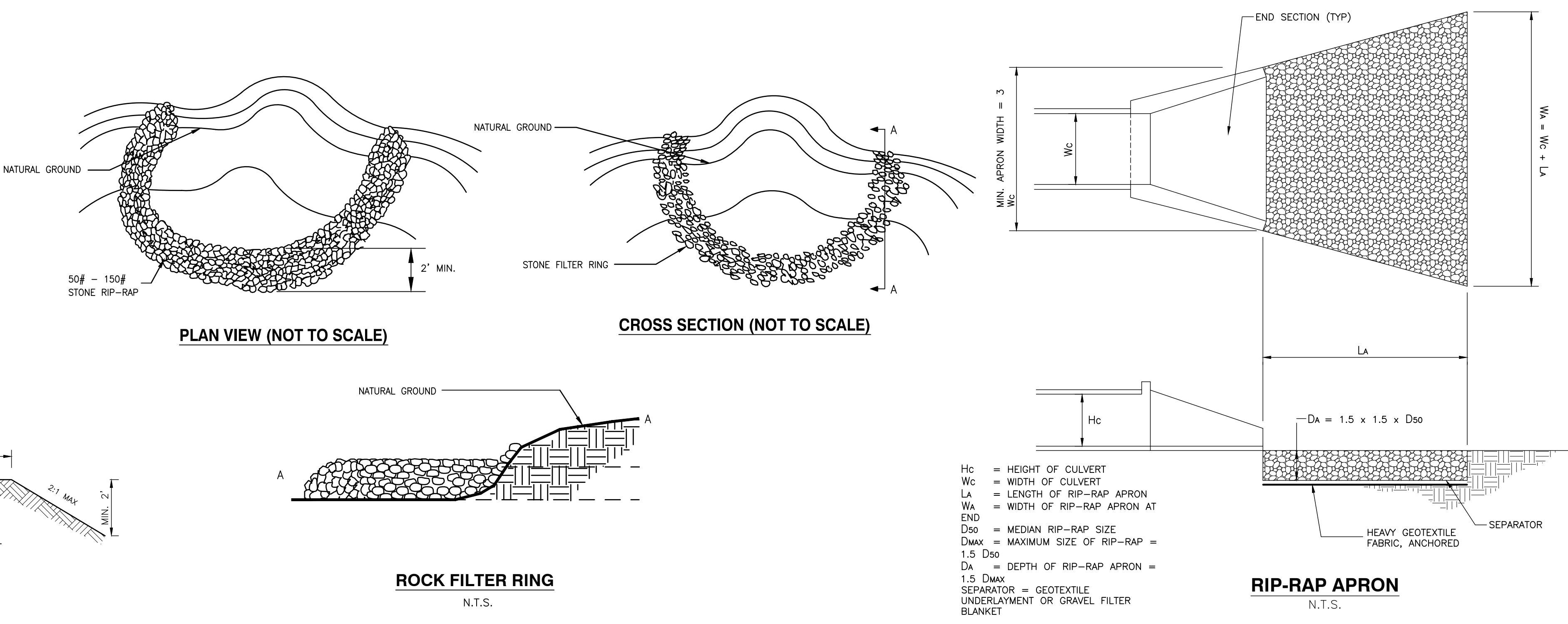


- SEDIMENT TRAP CONSTRUCTION SPECIFICATIONS**
- CLEAR, GRUB, AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOIL CONTAINING HIGH AMOUNTS OF ORGANIC MATTER, AND STOCKPILE IT OR DISPOSE OF IT PROPERLY. HAUL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL AREA.
 - ENSURE THAT FILL MATERIAL FOR THE EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, ORGANIC MATTER, AND OTHER OBJECTIONABLE MATERIAL. PLACE THE FILL IN LIFTS NOT TO EXCEED 9 INCHES, AND MACHINE COMPACT IT. OVERLAP THE EMBANKMENT 6 INCHES TO ALLOW FOR SETTLEMENT.
 - CONSTRUCT THE OUTLET SECTION IN THE EMBANKMENT. PROTECT THE CONNECTION BETWEEN THE RIPRAP AND THE SOIL FROM PIPING BY USING GEOTEXTILE FABRIC BETWEEN THE RIP RAP AND SOIL. PLACE THE FILTER FABRIC BETWEEN THE SOIL AND RIP RAP. EXTEND THE FABRIC ACROSS THE SPILLWAY FOUNDATION AND SIDES TO THE TOP OF THE DAM.
 - CLEAR THE SEDIMENT TRAP STORAGE ZONE AREA BELOW THE ELEVATION OF THE CREST OF THE SPILLWAY TO FACILITATE CLEANOUT.
 - ALL CUT AND FILL SLOPES MUST BE 2:1 OR FLATTER.
 - ENSURE THAT THE STONE SECTION OF THE EMBANKMENT HAS A MINIMUM BOTTOM WIDTH OF 3 FEET AND MAXIMUM SIDE SLOPES OF 1:1 THAT EXTEND TO THE BOTTOM OF THE SPILLWAY SECTION.
 - CONSTRUCT THE MINIMUM FINISHED STONE SPILLWAY BOTTOM WIDTH, AS SHOWN ON THE PLANS, WITH 2:1 SIDE SLOPES EXTENDING TO THE TOP OF THE OVER FILLED EMBANKMENT. THE WEIR MUST BE LEVEL AND CONSTRUCTED TO THE WIDTH NOTED ON THE PLANS.
 - MATERIAL USED IN THE STONE SECTION SHOULD BE A WELL GRADED MIXTURE OF STONE WITH A D50 SIZE OF 9 INCHES (CLASS A-1). THE STONE CAN BE MACHINE PLACED AND THE SMALLER STONES WORKED INTO THE VOIDS OF THE LARGER STONES.
 - RUNOFF SHOULD BE DISCHARGED INTO THE TRAP IN A MANNER TO PREVENT EROSION. USE TEMPORARY SLOPE DRAINS OR DIVERSIONS WITH OUTLET PROTECTION TO DIVERT RUNOFF TO THE UPPER END OF THE STORAGE AREA TO IMPROVE TRAP EFFICIENCY. AVOID DISCHARGING RUNOFF OVER UNPROTECTED STEEP SIDE SLOPES.
 - ENSURE THAT THE STONE SPILLWAY OUTLET SECTION EXTENDS DOWNSTREAM PAST THE TOE OF THE EMBANKMENT UNTIL STABLE CONDITIONS ARE REACHED AND OUTLET VELOCITY IS ACCEPTABLE FOR THE RECEIVING SYSTEM. KEEP THE EDGES OF THE STONE SECTION FLUSH WITH THE SURROUNDING GROUND.
 - STABILIZE THE EMBANKMENT AND ALL DISTURBED AREAS ABOVE THE SEDIMENT POOL AND DOWNSTREAM FROM THE TRAP IMMEDIATELY AFTER CONSTRUCTION.
 - INSTALL AT LEAST TWO POROUS BAFFLES AS SPECIFIED IN SECTION 7.3.3.

- SEDIMENT TRAP MAINTENANCE AND INSPECTION POINTS**
- SEDIMENT TRAPS MUST BE MAINTAINED AND FUNCTION AS DESIGNED UNTIL ALL AREAS DRAINING TO THE TRAP HAVE BEEN STABILIZED. THE STRUCTURE SHOULD BE CHECKED REGULARLY TO INSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. THE HEIGHT OF THE STONE OUTLET SHOULD BE CHECKED TO ENSURE THAT ITS CENTER IS AT LEAST 1 FOOT BELOW THE TOP OF THE EMBANKMENT.
 - ANY RIP RAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY.
 - FILTER STONE SHOULD BE CHECKED TO ENSURE THAT FILTRATION PERFORMANCE IS MAINTAINED. REPLACE STONE CAKED WITH SEDIMENT.
 - SEDIMENT SHALL BE REMOVED WHEN IT HAS ACCUMULATED TO ONE HALF THE DESIGN VOLUME OF THE WET STORAGE. SEDIMENT REMOVED FROM THE TRAP SHOULD BE DEPOSITED IN AN AREA UP GRADIENT FROM THE SEDIMENT TRAP AND OTHER MEASURES SHOULD BE TAKEN TO STABILIZE OR REMOVED FROM THE SITE. DO NOT PLACE REMOVED SEDIMENT BELOW SEDIMENT CONTROLS.
 - ONCE THE AREAS DRAINING TO THE SEDIMENT TRAP HAVE BEEN STABILIZED, REMOVE THE STONE AND RIP RAP SPILLWAY AND BACKFILL THE SEDIMENT STORAGE AREA. STABILIZE THE AREA.



- NOTES:**
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED.
 - GRADE THE SURFACE BEFORE INSTALLATION SO THE GROUND IS SMOOTH AND SOIL LOOSE. ALL GULLIES, RILLS, AND OTHER DISTURBED AREAS MUST BE FINE GRADED PRIOR TO INSTALLATION.
 - SPREAD SEED BEFORE BLANKET INSTALLATION.
 - REMOVE ALL LARGE ROCKS, DIRT CLODS, STUMPS, ROOTS, GRASS CLUMPS, TRASH, AND OTHER OBSTRUCTIONS FROM THE SOIL SURFACE TO ALLOW DIRECT CONTACT BETWEEN THE SOIL AND BLANKET.
 - PLACE BLANKET 2-3 FEET OVER THE TOP OF THE SLOPE AND INTO AN EXCAVATED TRENCH 12" DEEP* WIDE BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
 - ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE.
 - OVERLAP ADJACENT ROLLS A MINIMUM OF 3 INCHES.
 - PIN THE BLANKET TO THE GROUND USING STAPLES OR PINS IN A 3' CENTER-TO-CENTER PATTERN, OR AS RECOMMENDED BY THE MANUFACTURER.
 - WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 12" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
 - EROSION CONTROL BLANKETS SHALL BE INSTALLED ON ALL 5:1 SLOPES WITH A MINIMUM OF 6 INCHES OF TOPSOIL.
 - FOR ALL SLOPES 3:1 OR STEEPER, TEMPORARY EROSION CONTROL BLANKET (TENSAR NORTH AMERICAN GREEN S150 OR APPROVED EQUAL) INSTALLED PER MANUFACTURER'S RECOMMENDATIONS SHALL BE USED IN PLACE OF STRAW MULCH.
 - FOR PERMANENT STABILIZATION OF DRAINAGE DITCHES, INSTALL TURF REINFORCEMENT MATTING (TENSAR NORTH AMERICAN GREEN SC250 OR APPROVED EQUAL) INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - REFER TO MANUFACTURER'S INSTRUCTIONS FOR SPECIFIC INSTALLATION PROCEDURES.



6" CONCRETE COMBINED CURB AND GUTTER

LOWERED CONCRETE CURB

6" DETACHED CONCRETE CURB

TYPE	TOTAL WIDTH (W) IN INCHES	WIDTH OF GUTTER (Wg) IN INCHES	VERTICAL DEPTH (D) IN INCHES	VERTICAL DEPTH (D) OF GUTTER AT FLOW LINE
6-30	30	25%	2	AS NOTED ON TYPICAL X-SECTIONS
6-36	36	25%	2.5	AS NOTED ON TYPICAL X-SECTIONS
6-42	42	25%	3	AS NOTED ON TYPICAL X-SECTIONS

VERTICAL DEPTH (D) MUST ALWAYS EXCEED SIX (6) INCHES.

HEIGHT OF CURB	DEPTH (D) OF GUTTER IN INCHES	TOTAL CUBIC YARDS PER LINEAR FOOT		CUBIC YARDS PER LINEAR FOOT	
		WIDTH (W) IN INCHES	PER LINEAR FOOT	DEPTH (D) OF GUTTER IN INCHES	PER LINEAR FOOT
LOWERED CURB	6"	30	0.0711	6	0.0943
	6"	36	0.0789	6	0.0911
	6"	42	0.0867	6	0.0879
6"	6"	30	0.0684	10	0.0724
	6"	36	0.0752	10	0.0684
	6"	42	0.0820	10	0.0644

LOWERED CONCRETE CURB NOTES

- TO BE BUILT AS COMBINED CURB AND GUTTER. DETACHED CURB OR INTEGRAL CURB AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- FOR DETACHED CURB, OBTAIN RADIUS AT FLOW LINE.
- TO BE USED FOR PROPOSED RAMP OPENINGS.

QUANTITIES FOR DETACHED CURB

HEIGHT OF CURB	TOTAL CUBIC YARD PER LINEAR FOOT
6"	0.0580

GENERAL NOTES

- FOR SPECIFICATIONS SEE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION, SECTION 700 - CONCRETE CURBS, GUTTERS AND COMBINED CURBS AND GUTTERS.
- THE FRONT FACE OF THE CONCRETE CURBS FOR ALL DEGREES OF CURVATURE SHALL CONFORM TO THE CURVATURE OF THE CURB AND NO CORNER SECTION SHALL BE PERMITTED.
- CONCRETE EXPANSION JOINT MATERIAL, E TO BE 3/4" THIS JOINTED FIBER IN ACCORDANCE WITH SECTION 800 - JOINT MATERIALS OF THE STANDARD SPECIFICATIONS.
- EXPANSION JOINTS ARE TO BE PLACED AS FOLLOWS:
 - AT TANGENT POINTS OF CURVATURE CURBS.
 - BETWEEN CURBS AND ADJUTING ROAD OBJECTS.
 - AT OTHER PLACES WHERE STRESSES MAY DEVELOP.
 - TO LINE UP WITH FURNISHED JOINTS WHERE THE ADJACENT PAVEMENT IS CONCRETE.
 - THE MAXIMUM SPACING IS TO BE 100 FEET.
- CONSTRUCTION JOINTS ARE TO BE SPACED AT 10 FEET. THE SPACING OF 10 FEET MAY BE REDUCED FOR CLOSURES, BUT NOT LESS THAN 5 FEET.
- EDGES OF JOINTS SHALL BE FINISHED ON ONE QUARTER INCH RADIUS.
- ALL COST OF JOINTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS.
- THE UNIT PRICE BID FOR CONCRETE CURBS, CONCRETE CURBS AND GUTTERS AND CONCRETE PAVEMENT SHALL INCLUDE ANY REBAR SECTION REQUIRED TO BE BUILT CONFORMING TO SECTIONS SHOWN ON THIS SHEET.
- PAVEMENT WILL BE AS FOLLOWS:

ITEM NO.	702-01	CONCRETE CURBS, PER CUBIC YARD.
ITEM NO.	702-01	CONCRETE COMBINED CURBS AND GUTTER, PER CUBIC YARD.

LEGEND

- D - VERTICAL DEPTH OF GUTTER
- E - VERTICAL DROP IN GUTTER FROM FRONT FACE TO EDGE OF CURB
- V - VERTICAL DEPTH OF GUTTER AT FLOW LINE
- W - TOTAL WIDTH OF COMBINED CURB AND GUTTER
- Wg - WIDTH OF GUTTER

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

CONCRETE CURBS AND GUTTERS

88-19-8 RFP-VG-10

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EPSC DETAILS

FEBRUARY 12, 2020 DRAWN BY: CRJ/MWB/ASL
DWG SCALE: MMB
PROJECT NO: 194-1504
AS SHOWN CHECKED BY: MMB
APPROVED BY: GHP

NOT FOR CONSTRUCTION

C904