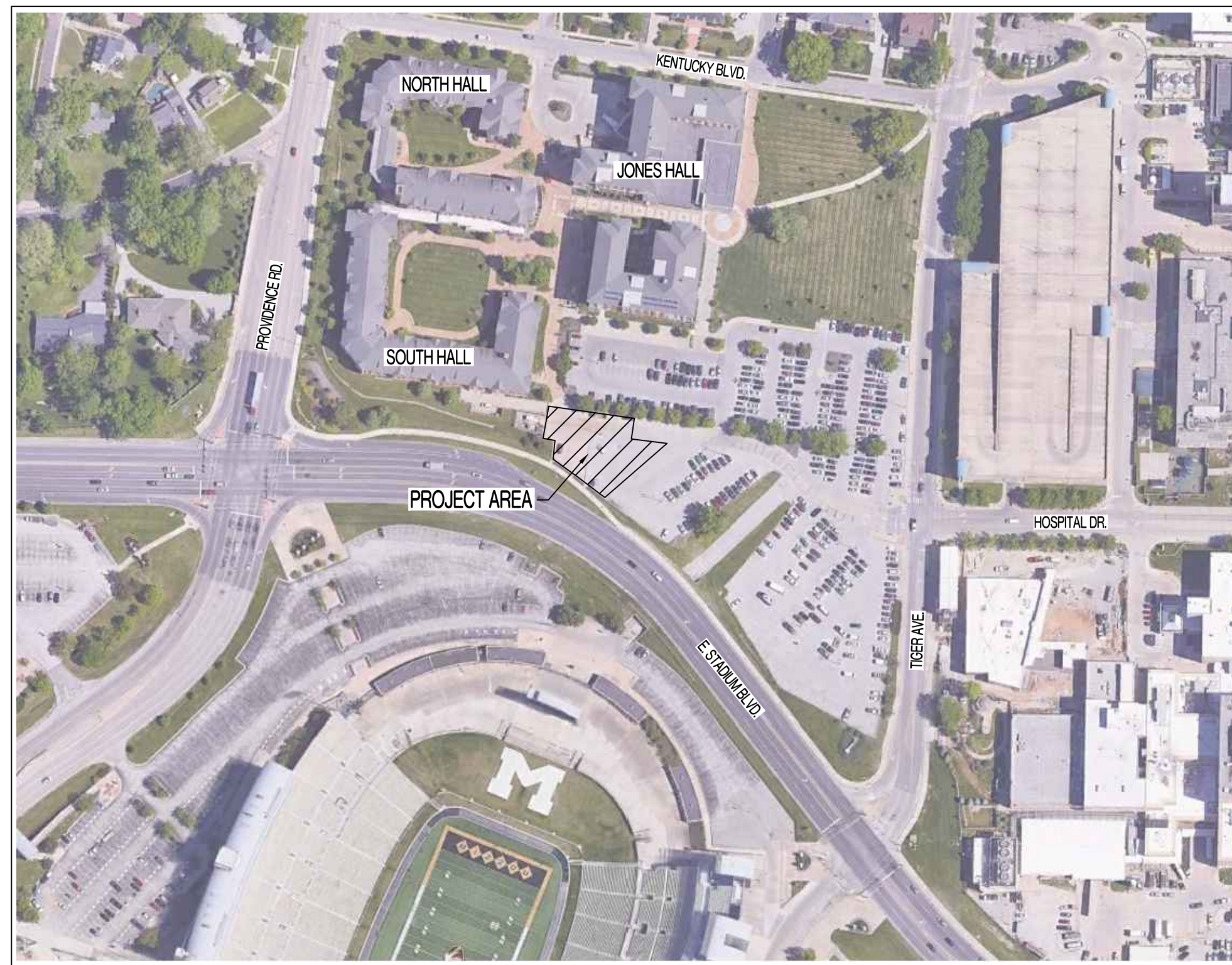




SOUTHWEST CAMPUS HOUSING - PARKING LOT REPAIRS

FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI PROJECT NO. CP240098

LOCATION MAP NOT TO SCALE



GENERAL NOTES:

CONTRACTOR WILL BE RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF TRAFFIC CONTROL DEVICES NECESSARY TO COMPLETE THEIR PORTION OF WORK. THE DEVICES AND METHODS EMPLOYED WILL COMPLY WITH THE CURRENT VERSION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).

EXISTING UTILITIES SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE LOCATES PRIOR TO ANY EXCAVATION.

ALL EXCAVATION TO BE IN ACCORDANCE WITH SECTIONS 319.010-319.050, REVISED STATUTES OF THE STATE OF MISSOURI. SUCH COMPLIANCE SHALL NOT, HOWEVER, EXCUSE ANY PERSON MAKING ANY EXCAVATION FROM DOING SO IN A CAREFUL AND PRUDENT MANNER, NOR SHALL IT EXCUSE SUCH PERSON FROM LIABILITY FOR ANY DAMAGE OR INJURY TO UNDERGROUND UTILITIES RESULTING FROM THE EXCAVATION.

IT IS THE INTENT OF THESE PLANS TO COMPLY WITH THE REQUIREMENTS OF THE MO&NR CLEAN WATER COMMISSION.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES AND REMOVING THEM ONCE THE SITE IS STABILIZED.

CONTRACTOR TO PROTECT ALL EXISTING UTILITIES, STRUCTURES, AND PAVEMENT THAT IS TO REMAIN. ALL DAMAGED ITEMS OUTSIDE THE SCOPE OF WORK TO BE REPLACED OR REPAIRED TO ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

ALL PAVEMENTS, SIDEWALKS, ABANDONED SEWERS, PIPELINES, EXCESS EARTHWORK, OR OTHER OBSTRUCTIONS TO CONSTRUCTION THAT ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFICALLY NOTED AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH STATE REGULATION 10 CSR 80-2.010 (9)(A)1.

ALL SLOPES ARE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

ALL DISTURBED AREAS WITHIN THE "LIMITS OF DISTURBANCE" THAT ARE NOT TO BE PAVED, SHALL BE FINE GRADED BY CONTRACTOR TO AN ELEVATION OF 6" BELOW FINISHED GRADE FOR TURF AREAS AND 24" BELOW FINISHED GRADE FOR PLANTER AREAS. TOP SOIL AND VEGETATION WILL BE REESTABLISHED BY OWNER.

TOTAL DISTURBED AREA = 0.22 AC.

MISSOURI DNR LAND DISTURBANCE PERMIT NOT NEEDED FOR THIS PROJECT.

ALL WORK SHALL BE SCHEDULED WITH THE OWNER'S REPRESENTATIVE AND BE SUBJECT TO THE OWNER'S APPROVAL PRIOR TO PROCEEDING.

ALL STORM SEWER PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAIL FOR PIPE BEDDING REQUIREMENTS.

SPECIAL INSPECTIONS:

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE:

- PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)
- IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)

THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

DEFERRED SUBMITTALS:

NONE.

ENGINEER CERTIFICATION:

BY SIGNING AND AFFIXING MY SEAL TO THESE PLANS, I HEREBY CERTIFY THESE DRAWINGS AND/OR SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE DRAWINGS AND/OR SPECIFICATIONS ARE AS REQUIRED BY AND IN COMPLIANCE WITH THE BUILDING CODES OF THE UNIVERSITY OF MISSOURI.

FLOOD PLAIN STATEMENT:

PART OF THIS TRACT IS LOCATED WITHIN THE 100-YEAR FLOODPLAIN AS PER THE BOONE COUNTY FIRM MAP #2900340280E DATED APRIL 19, 2017.

Sheet List Table

Sheet Number	Sheet Title	BID SET 03/13/2024	REVISION 1	REVISION 2	REVISION 3
CE 0	COVER SHEET	X			
CE 1	PAVEMENT INVESTIGATION PLAN	X			
CE 2	DEMOLITION PLAN	X			
CE 3	GRADING PLAN	X			
CE 4	SITE PLAN	X			
CE 5	STORM SEWER PROFILE AND DETAILS	X			
CE 6	SPECIFICATIONS AND DETAILS	X			

LEGEND OF SYMBOLS:

---	EXISTING CURB	FF-XXXX	FINISH FLOOR OF STRUCTURE
---	PROPOSED CURB	XXXX.TC	PROPOSED TOP OF CURB ELEVATION
XXXX	RIP RAP	XXXX.TP	PROPOSED TOP OF PAVEMENT ELEVATION
---	EXISTING STRUCTURE	XXXX.FS	PROPOSED FINISH GRADE ELEVATION
---	EXISTING TREELINE	XXXX.TW	PROPOSED TOP OF WALL
---	PROPOSED TREELINE	XX	LOT NUMBER
---	EDGE OF WATERWAY	X	STORM SEWER STRUCTURE LABEL
---	EXISTING WATERLINE	X	SANITARY SEWER STRUCTURE LABEL
---	PROPOSED WATERLINE	HP.	HIGH POINT
---	EXISTING GAS LINE	LP.	LOW POINT
---	PROPOSED GAS LINE	---	EXISTING SIGNS
---	EXISTING UNDERGROUND TELEPHONE	---	EXISTING POWER POLE
---	EXISTING UNDERGROUND CABLE TELEVISION	---	EXISTING GAS VALVE
---	EXISTING HIGH VOLTAGE ELECTRIC	---	EXISTING WATER VALVE
---	EXISTING OVERHEAD ELECTRIC	---	EXISTING GAS METER
---	EXISTING UNDERGROUND ELECTRIC	---	EXISTING WATER METER
---	EXISTING OVERHEAD ELEC. & TV	---	EXISTING FIRE HYDRANT
---	EXISTING OVERHEAD ELEC., TV & TELE.	---	MANHOLE
---	EXISTING SANITARY SEWER	---	EXISTING SANITARY SEWER LATERAL
---	PROPOSED SANITARY SEWER	---	PROPOSED SANITARY SEWER LATERAL
---	EXISTING MINOR CONTOUR	---	PROPOSED TRACER WIRE TEST STATION BOX
---	EXISTING MAJOR CONTOUR	---	EXISTING AIR CONDITIONER
---	PROPOSED MINOR CONTOUR	---	EXISTING TELEPHONE PEDESTAL
---	PROPOSED MAJOR CONTOUR	---	EXISTING ELECTRICAL TRANSFORMER
---	100 YEAR FLOOD PLAIN	---	EXISTING ELECTRIC METER
---	FLOODWAY	---	EXISTING LIGHT POLE
---	ORDINARY HIGH WATER MARK	---	EXISTING GUY WIRE
---	STREAM SIDE BUFFER	---	CONSTRUCTION BARRIER FENCING
---	OUTER STREAM BUFFER	---	EXISTING UTILITY LOCATED BY MAPPING ONLY
---	DEMOLITION LIMITS		
---	SILT FENCE		

PROJECT BENCHMARKS:

TEMPORARY BENCHMARK (TBM) #1 - CHISELED SQUARE IN NORTHWEST CORNER OF STORM INLET BETWEEN STADIUM BLVD. AND THE ADJACENT SIDEWALK, JUST SOUTHWEST OF THE PROJECT AREA.
ELEVATION = 718.04'

CONTROL POINT #10 - PK
N = 1130305.82
E = 1688115.38

CONTROL POINT #11 - PK
N = 1130425.96
E = 1688063.43

UTILITY COMPANIES:

LOCATES:

MISSOURI ONE CALL INC.
1022 B NORTHEAST DRIVE
JEFFERSON CITY, MO 65109
1-800-344-7483



NATURAL GAS:

AMEREN MISSOURI
2001 MAGUIRE BLVD.
COLUMBIA, MO 65201
573-876-3030

WATER/ELECTRIC/FIBER/SEWERMAIN:

CITY OF COLUMBIA
P.O. BOX 6015
WATER & LIGHT DEPARTMENT
COLUMBIA, MO 65205
573-874-7325

ELECTRIC/FIBER/STREET

MODOT CENTRAL DISTRICT
573-690-3632

FIBER:

MNA-BLUEBIRD
573-777-4200

TELEVISION:

MEDIACOM
1211 WILKES BLVD
COLUMBIA, MO 65201
(855) 633-4226

WATER, STORM SEWER & SECONDARY ELECTRIC:

UNIVERSITY CAMPUS FACILITY OPERATIONS
180 GENERAL SERVICES BUILDING
COLUMBIA, MO 65211
573-882-8211

REVISIONS:

NO.	DATE
BID SET	03/13/2024

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

PREPARED BY:
CROCKETT
ENGINEERS & ARCHITECTS
1000 W. Wilson Blvd., Ste. 2000
Columbia, Missouri 65203
(573) 487-0299
www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#00000001

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CURATORS OF THE UNIVERSITY OF MISSOURI
C/O BUSINESS SERVICES
285 UNIVERSITY HALL
COLUMBIA, MO 65211

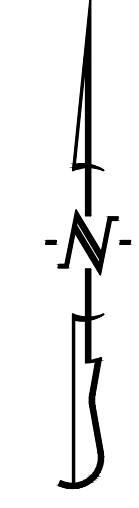
**SOUTHWEST CAMPUS HOUSING
- PARKING LOT REPAIRS
CP240098**
COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:
COVER SHEET

DESIGNED: ATG
DRAWN: ATG
PROJECT NO: 230642
SHEET:
CE 0

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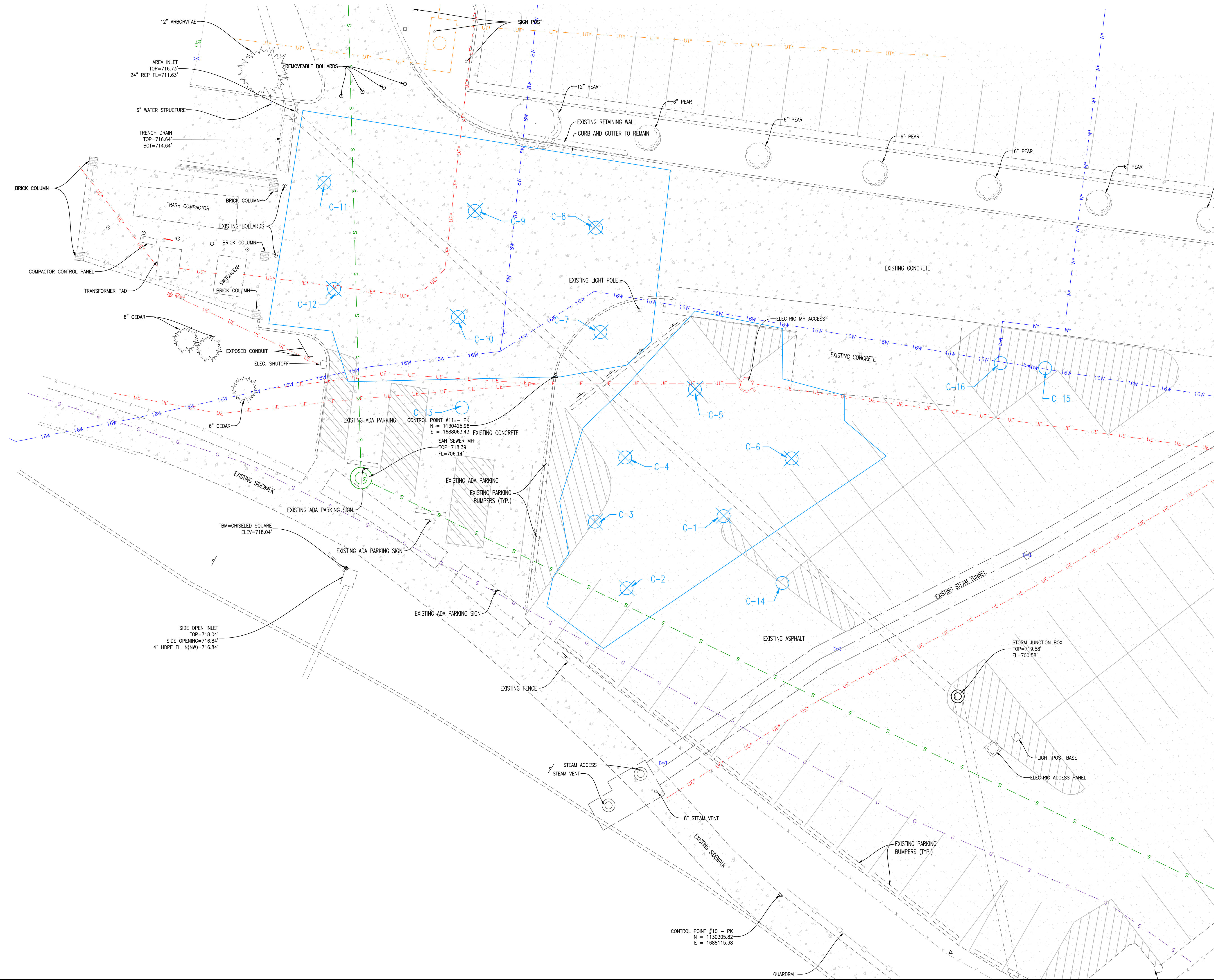
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SCALE: 1"=10'
0 5 10 20

PAVEMENT INVESTIGATION LEGEND:

- C-12 CORE HOLE NUMBER IDENTIFIER
- ⊗ CORE HOLE WITH VOIDS FOUND
- CORE HOLE WITHOUT VOIDS FOUND
- VOID OUTLINE/LIMITS



REVISIONS:

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BID SET	03/13/2024

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ANDREW T. GREENE
MEMBER
PE 2020000043
3/13/2024
ANDREW T. GREENE
MO LICENSE 2020000043

PREPARED BY:

CROCKETT
ENGINEERING
1000 W. MISSOURI BLVD.
COLUMBIA, MISSOURI 65203
(314) 487-0291
www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#00000001

OWNER:

CURATORS OF THE UNIVERSITY OF MISSOURI
C/O BUSINESS SERVICES
280 UNIVERSITY HALL
COLUMBIA, MO 65211

**SOUTHWEST CAMPUS HOUSING
- PARKING LOT REPAIRS
CP240098**

COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:

PAVEMENT INVESTIGATION PLAN

DESIGNED:	ATG
DRAWN:	ATG
PROJECT NO.:	230642
SHEET:	CE1

REVISIONS:	
NO.	DATE
BID SET	03/13/2024

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ANDREW T. GREENE
MO LICENSE: 202000043

PREPARED BY:
CROCKETT
ENGINEERS & ARCHITECTS
1000 W. Illinois Blvd., Suite 300
Columbia, Missouri 65203
(314) 487-0299
www.crockettengineering.com
Crockett Engineering Consultants, LLC
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C/O BUSINESS SERVICES
285 UNIVERSITY HALL
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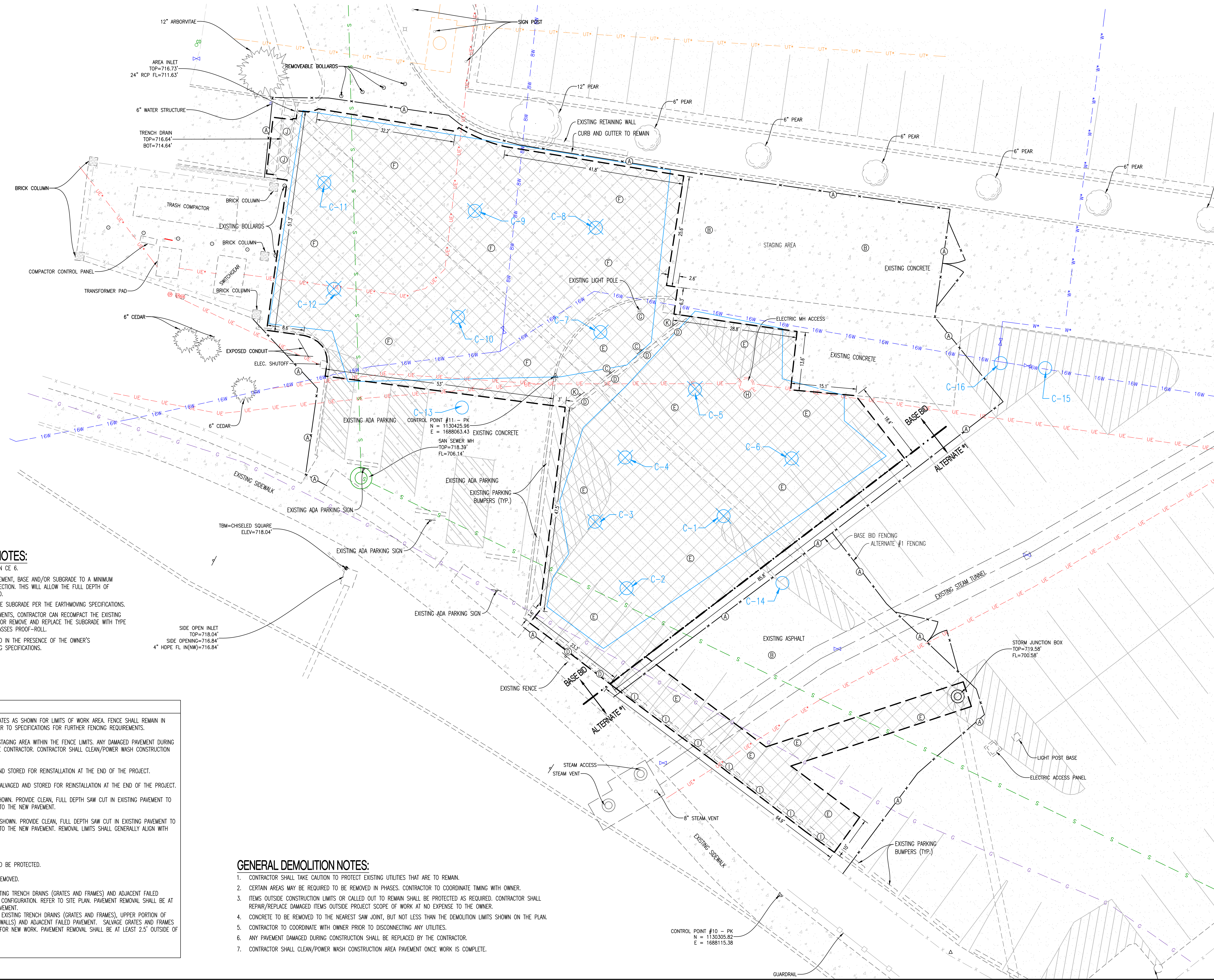
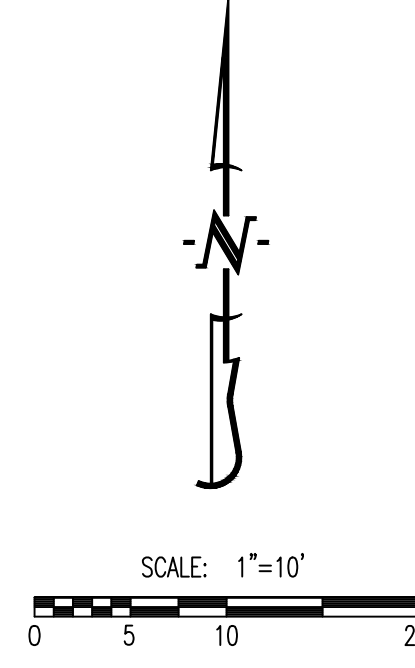
SOUTHWEST CAMPUS HOUSING - PARKING LOT REPAIRS CP240098

COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:

DEMOLITION PLAN

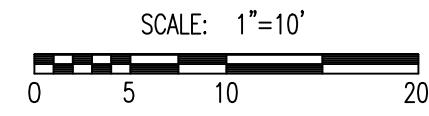
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DRAWN: ATG
PROJECT NO: 230642
SHEET:
CE 2



LEGEND OF LABELS

(A)	INSTALL 6' TALL CHAIN LINK FENCE WITH GATES AS SHOWN FOR LIMITS OF WORK AREA. FENCE SHALL REMAIN IN PLACE THROUGHOUT PHASE DURATION. REFER TO SPECIFICATIONS FOR FURTHER FENCING REQUIREMENTS.
(B)	CONTRACTOR TO USE EXISTING PAVING AS STAGING AREA WITHIN THE FENCE LIMITS. ANY DAMAGED PAVEMENT DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR. CONTRACTOR SHALL CLEAN/POWER WASH CONSTRUCTION AREA PAVEMENT ONCE WORK IS COMPLETE.
(C)	EXISTING PARKING SIGN TO BE SALVAGED AND STORED FOR REINSTALLATION AT THE END OF THE PROJECT.
(D)	EXISTING PARKING BUMPER BLOCK TO BE SALVAGED AND STORED FOR REINSTALLATION AT THE END OF THE PROJECT.
(E)	REMOVE EXISTING ASPHALT PAVEMENT AS SHOWN. PROVIDE CLEAN, FULL DEPTH SAW CUT IN EXISTING PAVEMENT TO REMAIN TO PROVIDE A CLEAN CONNECTION TO THE NEW PAVEMENT.
(F)	REMOVE EXISTING CONCRETE PAVEMENT AS SHOWN. PROVIDE CLEAN, FULL DEPTH SAW CUT IN EXISTING PAVEMENT TO REMAIN TO PROVIDE A CLEAN CONNECTION TO THE NEW PAVEMENT. REMOVAL LIMITS SHALL GENERALLY ALIGN WITH EXISTING PAVEMENT JOINTS.
(G)	PROTECT EXISTING LIGHT POLE.
(H)	EXISTING ELECTRIC MANHOLE TO REMAIN AND BE PROTECTED.
(I)	EXISTING PARKING BUMPER BLOCK TO BE REMOVED.
(J)	BASE BID SHALL INCLUDE SALVAGE OF EXISTING TRENCH DRAINS (GRATES AND FRAMES) AND ADJACENT FAILED PAVEMENT AND REINSTALLING PER ORIGINAL CONFIGURATION. REFER TO SITE PLAN. PAVEMENT REMOVAL SHALL BE AT LEAST 2.5' OUTSIDE OF EXISTING FAILED PAVEMENT. ALTERNATE #2 SHALL INCLUDE SALVAGE OF EXISTING TRENCH DRAINS (GRATES AND FRAMES), UPPER PORTION OF SUBSURFACE CONCRETE FOUNDATION (SIDE WALLS) AND ADJACENT FAILED PAVEMENT. SALVAGE GRATES AND FRAMES FOR REINSTALLATION. REFER TO SITE PLAN FOR NEW WORK. PAVEMENT REMOVAL SHALL BE AT LEAST 2.5' OUTSIDE OF EXISTING FAILED PAVEMENT.
(K)	EXISTING PARKING SIGN TO BE REMOVED.

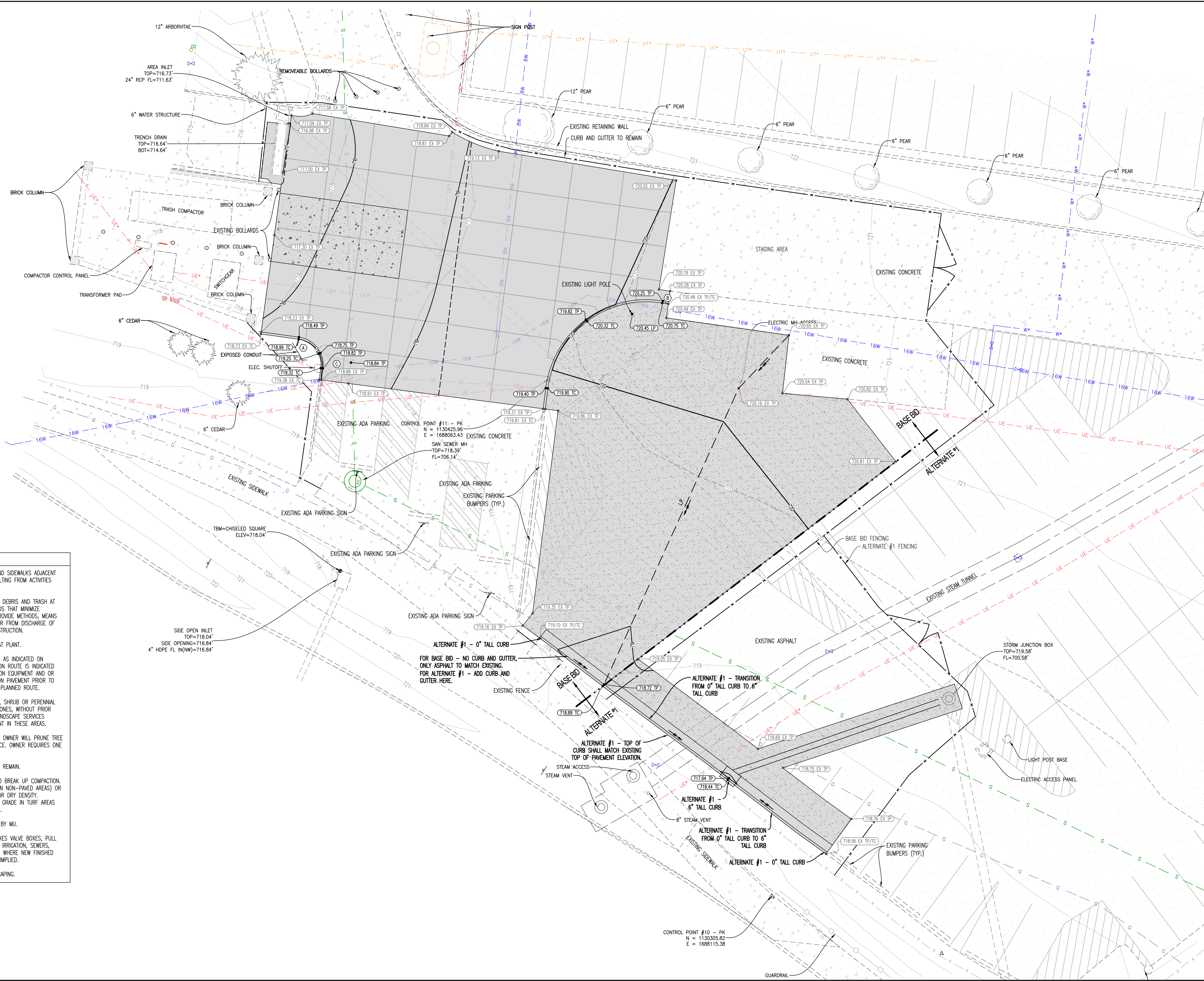
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- LEGEND OF LABELS**
- (A) ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS, THAT ARE NOT TO BE PAVED, SHALL BE FINE GRADED BY CONTRACTOR TO AN ELEVATION OF 6" BELOW FINISHED GRADE. FINAL TOP SOIL PLACEMENT AND VEGETATION WILL BE REESTABLISHED BY OWNER.
 - (B) TRANSITION FROM 6" TALL CURB TO ZERO CURB.
 - (C) GRADE ACCESSIBLE PARKING STALLS AS SHOWN. SLOPE OF THE PAVEMENT AT ALL ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 1:50 IN ALL DIRECTIONS. ALL ACCESSIBLE ELEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.

- LEGEND OF SYMBOLS:**
- XXX--- EXISTING MINOR CONTOUR
 - XXX--- EXISTING MAJOR CONTOUR
 - XXX--- PROPOSED MINOR CONTOUR
 - XXX--- PROPOSED MAJOR CONTOUR
 - XXX.XX TC PROPOSED TOP OF CURB ELEVATION
TC = (TP+6") UNLESS NOTED OTHERWISE
 - XXX.XX TP PROPOSED TOP OF PAVEMENT ELEVATION
 - XXX.XX EX EXISTING SPOT ELEVATION MODIFIER

- GENERAL NOTES:**
- CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ROADWAYS AND SIDEWALKS ADJACENT TO THE CONSTRUCTION SITE FREE OF DIRT AND DEBRIS RESULTING FROM ACTIVITIES RELATED TO THE CONSTRUCTION OF THIS PROJECT.
 - CONTRACTOR SHALL KEEP THE ENTIRE PROJECT SITE FREE OF DEBRIS AND TRASH AT ALL TIMES. CONTRACTOR SHALL EXECUTE WORK USING METHODS THAT MINIMIZE EXCESSIVE NOISE OR DUST EMISSIONS. CONTRACTOR SHALL PROVIDE METHODS, MEANS AND FACILITIES TO PREVENT CONTAMINATION OF SOIL OR WATER FROM DISCHARGE OF REGULATED MATERIALS (I.E., DIESEL FUEL) USED DURING CONSTRUCTION.
 - CONTRACTOR SHALL DIRECT CONCRETE TRUCKS TO WASHOUT AT PLANT.
 - VEHICLES ARE TO USE DESIGNATED CONSTRUCTION ENTRANCES AS INDICATED ON DRAWINGS OR CONSTRUCTION DOCUMENTS. IF NO CONSTRUCTION ROUTE IS INDICATED VEHICLES ARE RESTRICTED TO PAVED AREAS. ALL CONSTRUCTION EQUIPMENT AND OR VEHICLES SHALL VERIFY THE WEIGHT LIMIT AND RESTRICTION ON PAVEMENT PRIOR TO CONSTRUCTION AND NOTIFY OWNERS REPRESENTATIVE OF THE PLANNED ROUTE.
 - THERE SHALL BE NO VEHICLE MOVEMENT IN ANY LANDSCAPED, SHRUB OR PERENNIAL AREAS, MULCH BED AND/OR TREE CANOPY DRIP AND ROOT ZONES, WITHOUT PRIOR MODIFICATIONS AND APPROVAL FROM LANDSCAPE SERVICES. LANDSCAPE SERVICES REQUIRES ONE WEEK NOTICE PRIOR TO ANY VEHICLE MOVEMENT IN THESE AREAS.
 - VEHICLE ACCESS SHALL NOT BREAK OR RUB TREE BRANCHES. OWNER WILL PRUNE TREE BRANCHES TO PROVIDE CLEARANCE AROUND BUILDING ENTRANCE. OWNER REQUIRES ONE WEEKS NOTICE FOR THIS WORK TO BE DONE.
 - DO NOT COMPACT GRADE WITHIN THE DRIP LINE OF TREES TO REMAIN.
 - CONTRACTOR SHALL RIP THE SUB-SOIL TO A DEPTH OF 6" TO BREAK UP COMPACTION. CONTRACTOR SHALL THEN COMPACT THE SUB-SOIL TO 85% (IN NON-PAVED AREAS) OR 95% (IN PAVED AREAS) OF THE MATERIAL'S STANDARD PROCTOR DRY DENSITY. CONTRACTOR SHALL LEAVE THE AREA 6" BELOW THE FINISHED GRADE IN TURF AREAS AND 24" BELOW THE FINISHED GRADE IN PLANTER BED AREAS.
 - FINAL 6" OF TOP SOIL PLACEMENT AND TURF ESTABLISHMENT BY MU.
 - THE CONTRACTOR SHALL ADJUST EXISTING AND NEW YARD BOXES VALVE BOXES, PULL BOXES, CLEANOUTS, AND MANHOLE LID RINGS ETC. (INCLUDES IRRIGATION, SEWERS, WATER AND ELECTRIC), TO THE INDICATED FINAL FINISH GRADE WHERE NEW FINISHED GRADE ELEVATIONS ARE PROVIDED, INDICATED, OR OTHERWISE IMPLIED.
 - THE OWNER WILL WATER AND MAINTAIN ALL SEED AND LANDSCAPING.



REVISIONS:

NO.	DATE
BID SET	03/13/2024

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

ANDREW T. GREENE
MO LICENSE: 202000043

PREPARED BY:
CROCKETT ENGINEERS ARCHITECTS
1000 N. Illinois Blvd.
Columbia, Missouri 65203
(314) 487-0290
www.crockettengineering.com
Missouri Certificate of Authority #000000001

OWNER:
CURATORS OF THE UNIVERSITY OF MISSOURI
COLUMBUS BUSINESS SERVICES
285 UNIVERSITY HALL
COLUMBIA, MO 65211

**SOUTHWEST CAMPUS HOUSING
- PARKING LOT REPAIRS
CP240098**

COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:

GRADING PLAN

DESIGNED: ATG
DRAWN: ATG
PROJECT NO.: 230642
SHEET: CE 3

REVISIONS:

NO.	DATE
BID SET	03/13/2024

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3/13/2024
ANDREW T. GREENE
MO LICENSE 2020000043

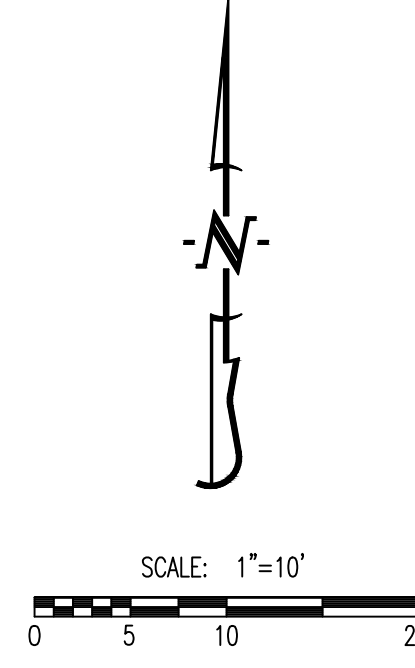
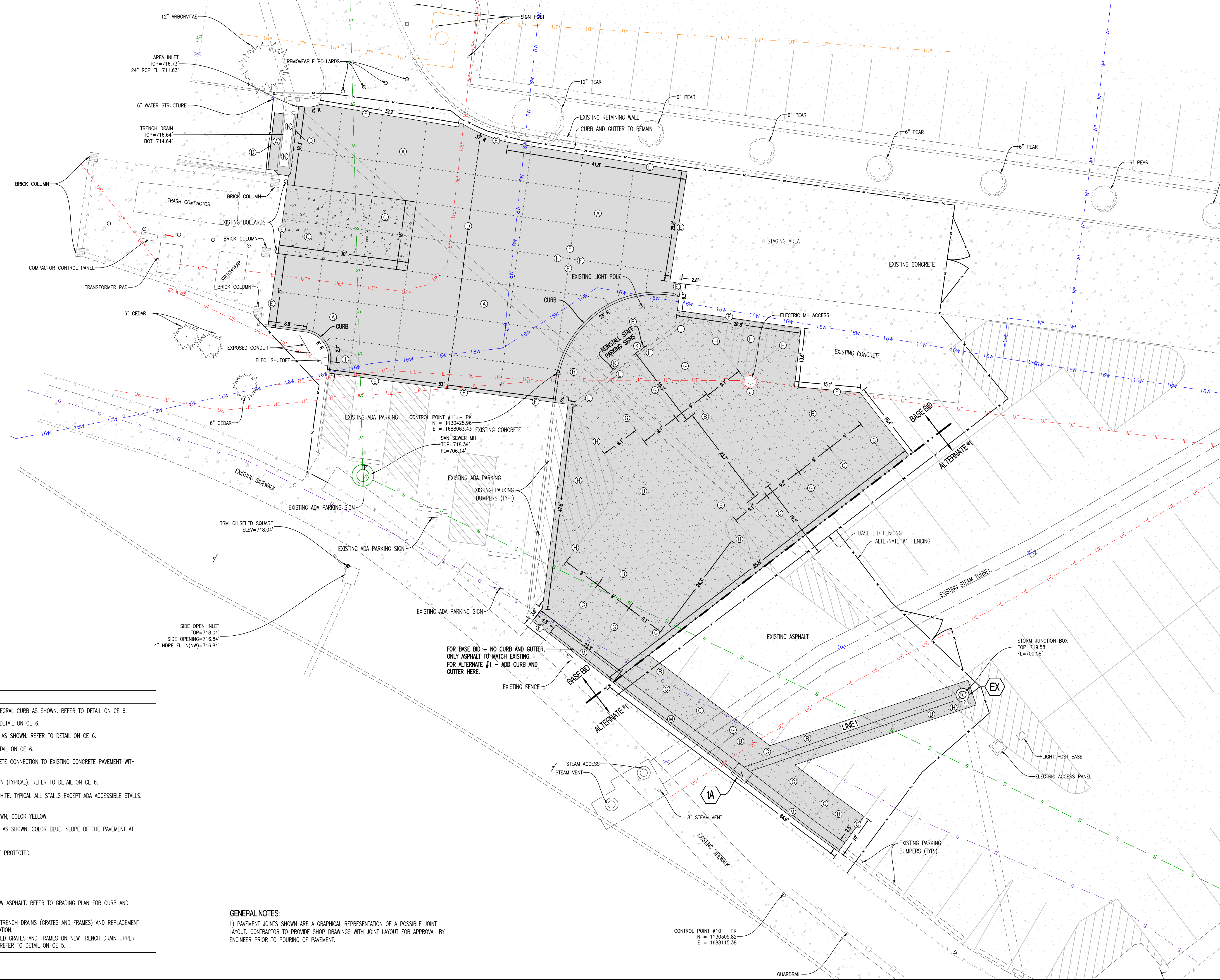
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1000 W. MISSOURI BLVD.
COLUMBIA, MISSOURI 65203
(314) 487-0299
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**SOUTHWEST CAMPUS HOUSING
- PARKING LOT REPAIRS
CP240098**
COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:
SITE PLAN

DESIGNED: ATG
DRAWN: ATG
PROJECT NO: 230642
SHEET:
CE 4



- LEGEND OF LABELS**
- (A) CONSTRUCT HEAVY DUTY CONCRETE PAVEMENT WITH INTEGRAL CURB AS SHOWN. REFER TO DETAIL ON CE 6.
 - (B) CONSTRUCT ASPHALT PAVEMENT AS SHOWN. REFER TO DETAIL ON CE 6.
 - (C) CONSTRUCT DUMPSTER PAD AREA CONCRETE PAVEMENT AS SHOWN. REFER TO DETAIL ON CE 6.
 - (D) INSTALL 1" EXPANSION JOINT AS SHOWN. REFER TO DETAIL ON CE 6.
 - (E) INSTALL DOWELED CONSTRUCTION JOINT AT NEW CONCRETE CONNECTION TO EXISTING CONCRETE PAVEMENT WITH SEALANT AS SHOWN. REFER TO DETAIL ON CE 6.
 - (F) INSTALL SAWED CONTROL JOINT WITH SEALANT AS SHOWN (TYPICAL). REFER TO DETAIL ON CE 6.
 - (G) PAINT 4" PARKING STALL STRIPES AS SHOWN, COLOR WHITE. TYPICAL ALL STALLS EXCEPT ADA ACCESSIBLE STALLS. REFER TO PLAN FOR WIDTH AND DEPTH OF STALLS.
 - (H) PAINT 4" NO PARKING AREA HATCHED STRIPING AS SHOWN, COLOR YELLOW.
 - (I) PAINT 4" STRIPING FOR ADA ACCESSIBLE PARKING AREA AS SHOWN, COLOR BLUE. SLOPE OF THE PAVEMENT AT ALL ACCESSIBLE STALLS SHALL NOT EXCEED 1:50.
 - (J) EXISTING ELECTRIC MANHOLE ACCESS STRUCTURE TO BE PROTECTED.
 - (K) INSTALL SALVAGED PARKING SIGN.
 - (L) INSTALL SALVAGED PARKING BUMPER BLOCK.
 - (M) CONSTRUCT CONCRETE CURB AND GUTTER ABUTTING NEW ASPHALT. REFER TO GRADING PLAN FOR CURB AND GUTTER ELEVATIONS. REFER TO DETAIL ON CE 6.
 - (N) BASE BID SHALL INCLUDE REINSTALLATION OF EXISTING TRENCH DRAINS (GRATES AND FRAMES) AND REPLACEMENT OF ADJACENT FAILED PAVEMENT TO ORIGINAL CONFIGURATION.
ALTERNATE #2 SHALL INCLUDE INSTALLATION OF SALVAGED GRATES AND FRAMES ON NEW TRENCH DRAIN UPPER FOUNDATION AND ADJACENT PAVEMENT REPLACEMENT. REFER TO DETAIL ON CE 5.

GENERAL NOTES:
1) PAVEMENT JOINTS SHOWN ARE A GRAPHICAL REPRESENTATION OF A POSSIBLE JOINT LAYOUT. CONTRACTOR TO PROVIDE SHOP DRAWINGS WITH JOINT LAYOUT FOR APPROVAL BY ENGINEER PRIOR TO POURING OF PAVEMENT.

FOR BASE BID - NO CURB AND GUTTER, ONLY ASPHALT TO MATCH EXISTING.
FOR ALTERNATE #1 - ADD CURB AND GUTTER HERE.

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CROCKETT
ENGINEERS & ARCHITECTS
1000 W. Illinois Blvd., Ste. 200
Columbia, Missouri 65203
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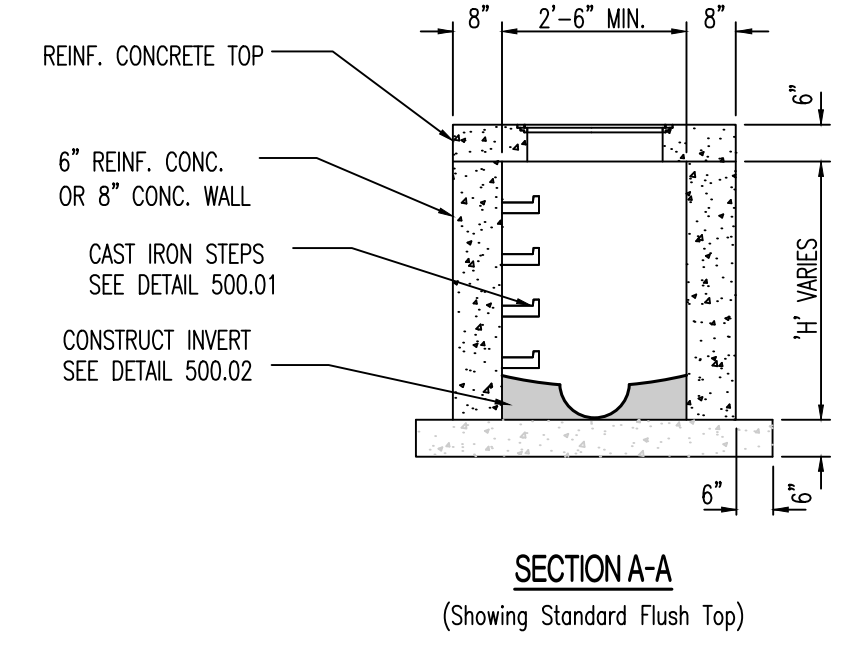
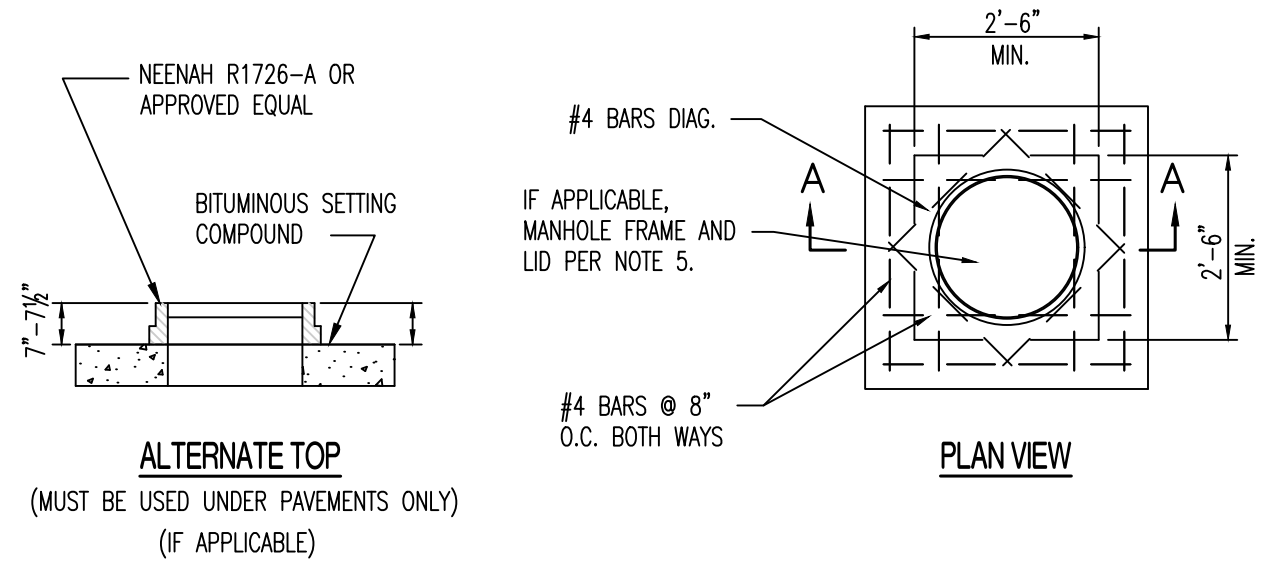
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COLUMBIA, BOONE COUNTY, MISSOURI

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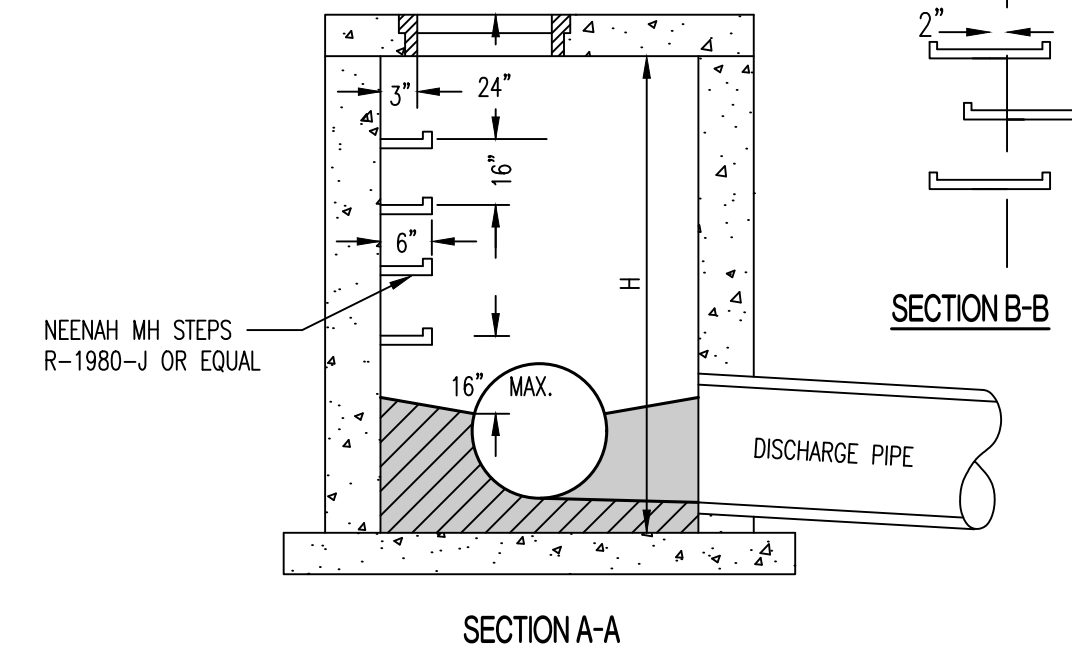
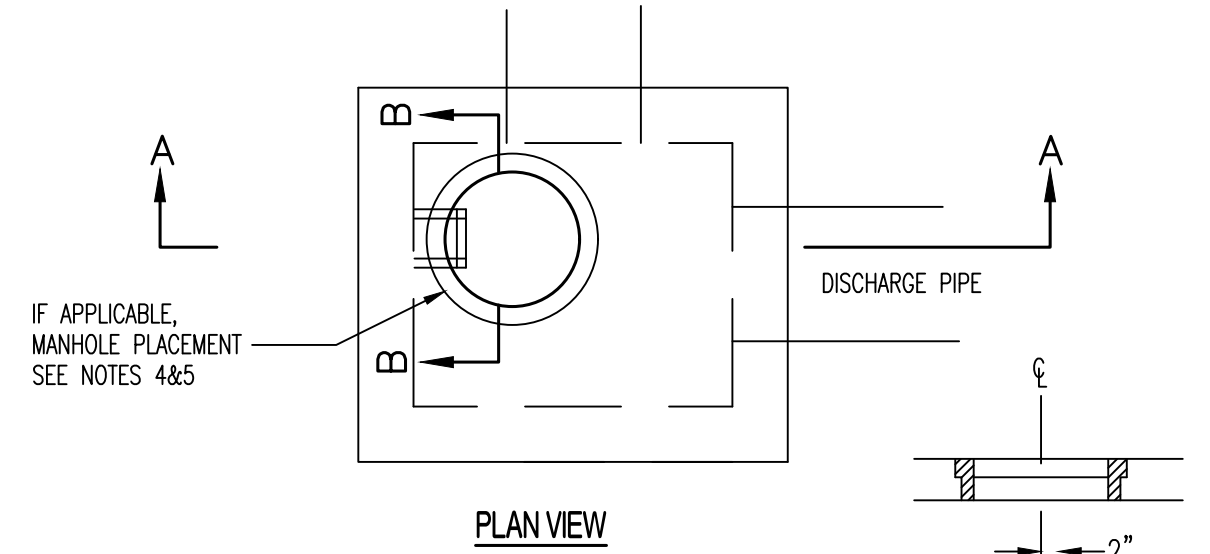
STORM SEWER PROFILE AND DETAILS

DESIGNED: ATG
DRAWN: ATG
PROJECT NO: 230642
SHEET: CE 5



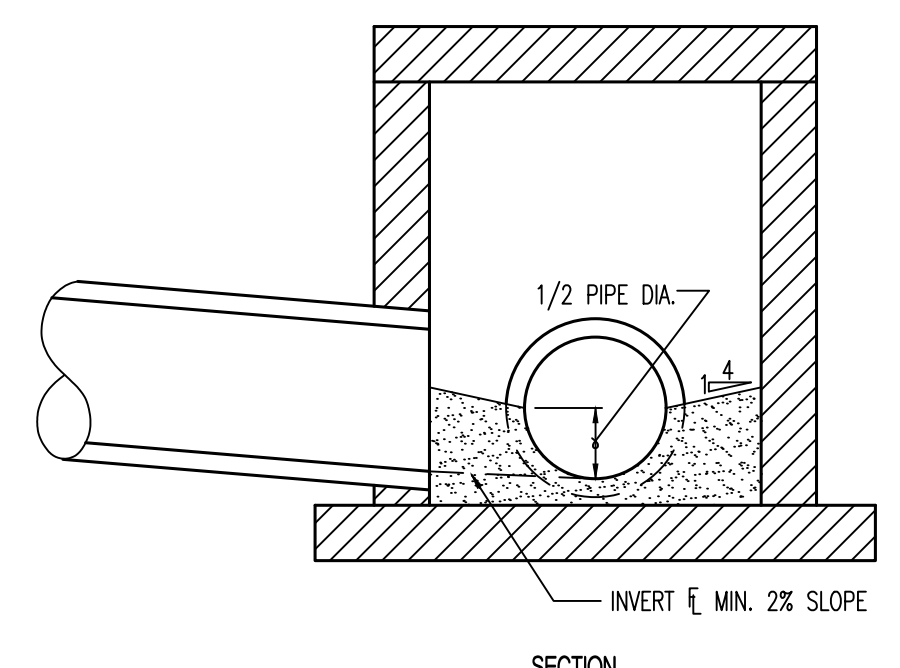
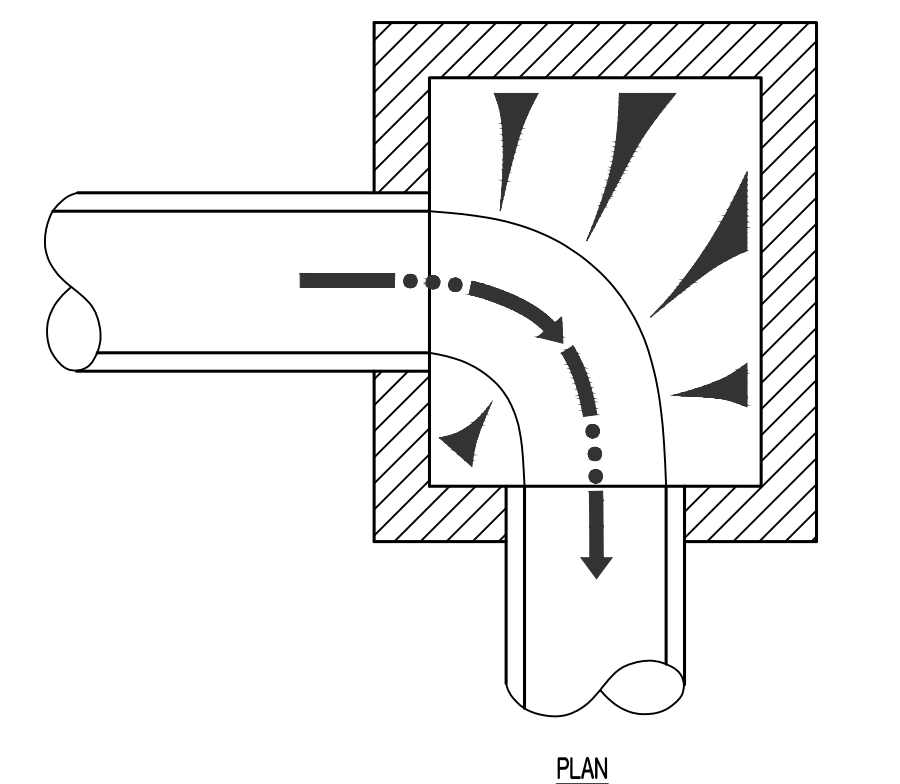
- NOTES:
1. CONCRETE SHALL BE CLASS E FOR BASES AND D FOR WALLS AND TOP.
 2. REINFORCING STEEL SHALL BE GRADE 60
 3. INSTALL WEEP HOLES AS PER DETAIL
 4. STRUCTURES WHERE H>8" SHALL BE REINFORCED CONCRETE (#4 BARS AT 12" CTRS., BOTH WAYS AND #4 BARS DIAGONAL AT PIPE OPENINGS)
 5. FRAME AND LID SHALL BE NEENAH R-1980-A (TYPE C LID) OR APPROVED EQUAL. SEE STEP DETAIL FOR PLACEMENT.

JUNCTION BOX



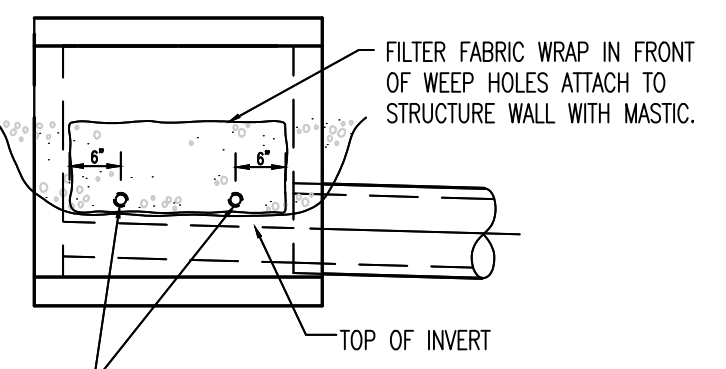
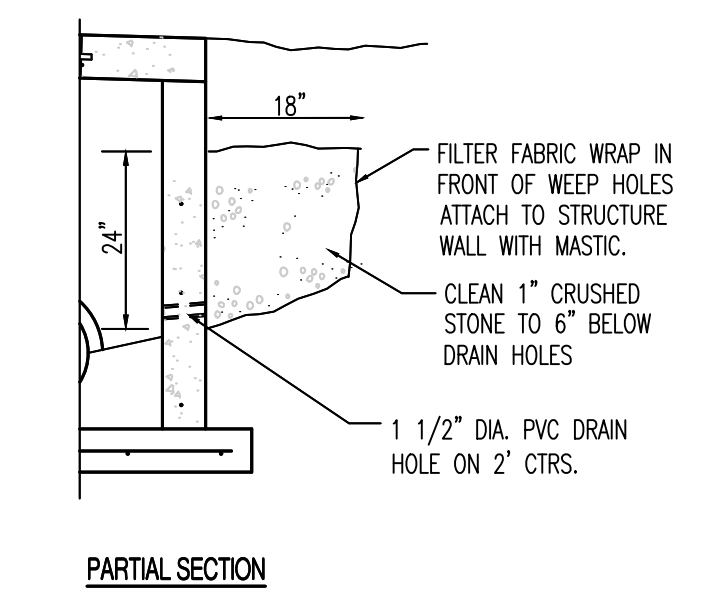
- NOTES:
1. STEPS NOT REQUIRED WHERE H IS LESS THAN 4'.
 2. CAST IRON STEPS SHALL BE AMERICAN ML-10-NCR OR EQUAL
 3. STEPS SHALL BE PLACED ON VACANT WALL WHEN POSSIBLE
 4. MANHOLE RING SHALL BE OFFSET TOWARD WALL WITH STEPS
 5. MANHOLE RING SHALL BE CENTERED ON CENTERLINE OF STEPS
 6. STAGGER STEPS 2" EACH WAY FROM CENTERLINE OF MANHOLE RING
 7. TOP STEP 24" BELOW TOP OF SLAB
 8. STEP SPACING TO BE 16", BOTTOM STEP TO BE NO HIGHER THAN 16" FROM INVERT.

DRAINAGE STRUCTURE STEPS



- NOTES:
1. FORM ALL INVERTS FOR SMOOTH FLOW THRU STRUCTURE.
 2. INVERT SHALL BE FORMED UP TO 1/2 THE PIPE DIAMETER.
 3. INVERT SHALL BE CLASS E CONCRETE.

DRAINAGE STRUCTURE INVERT

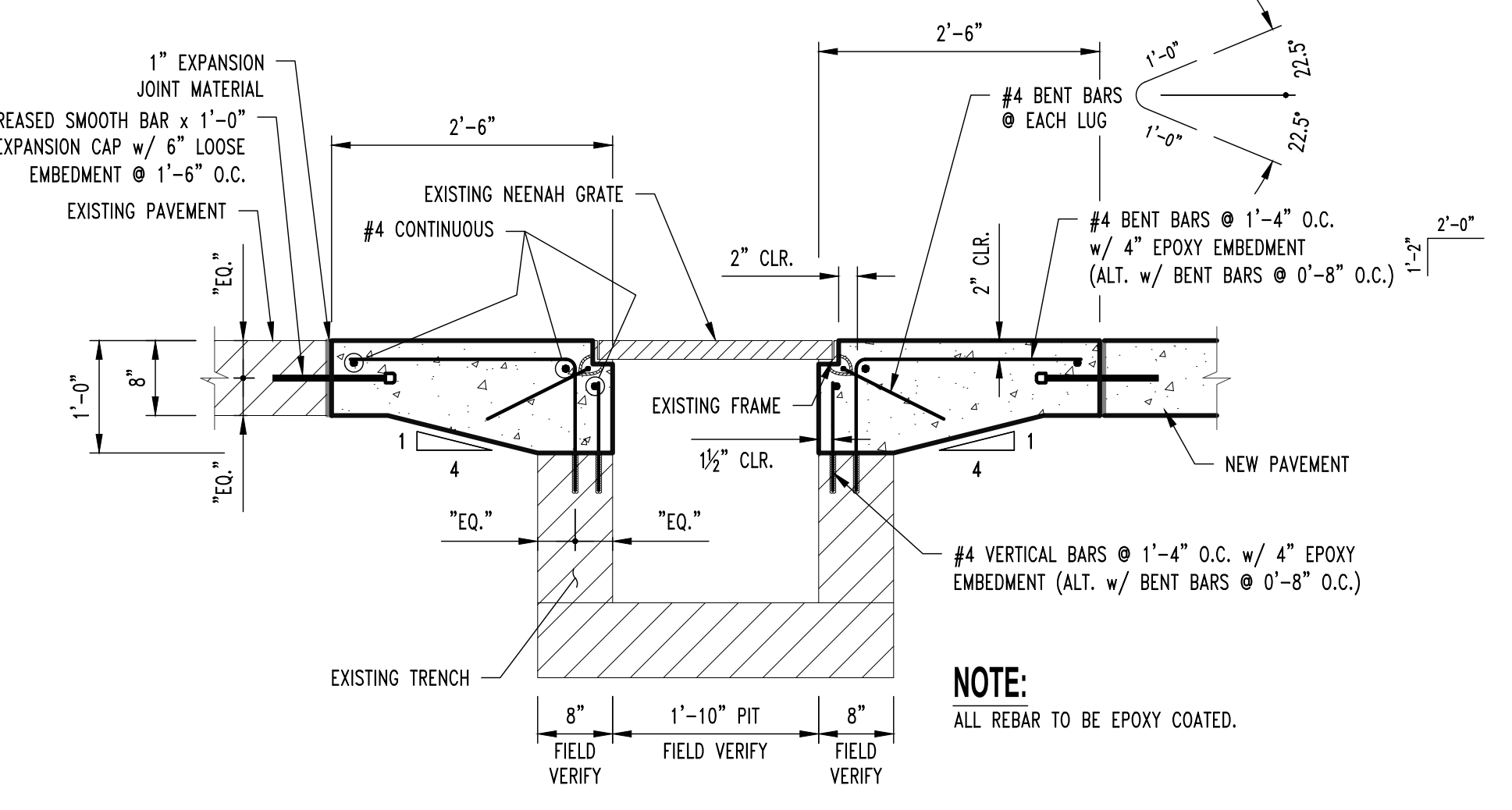
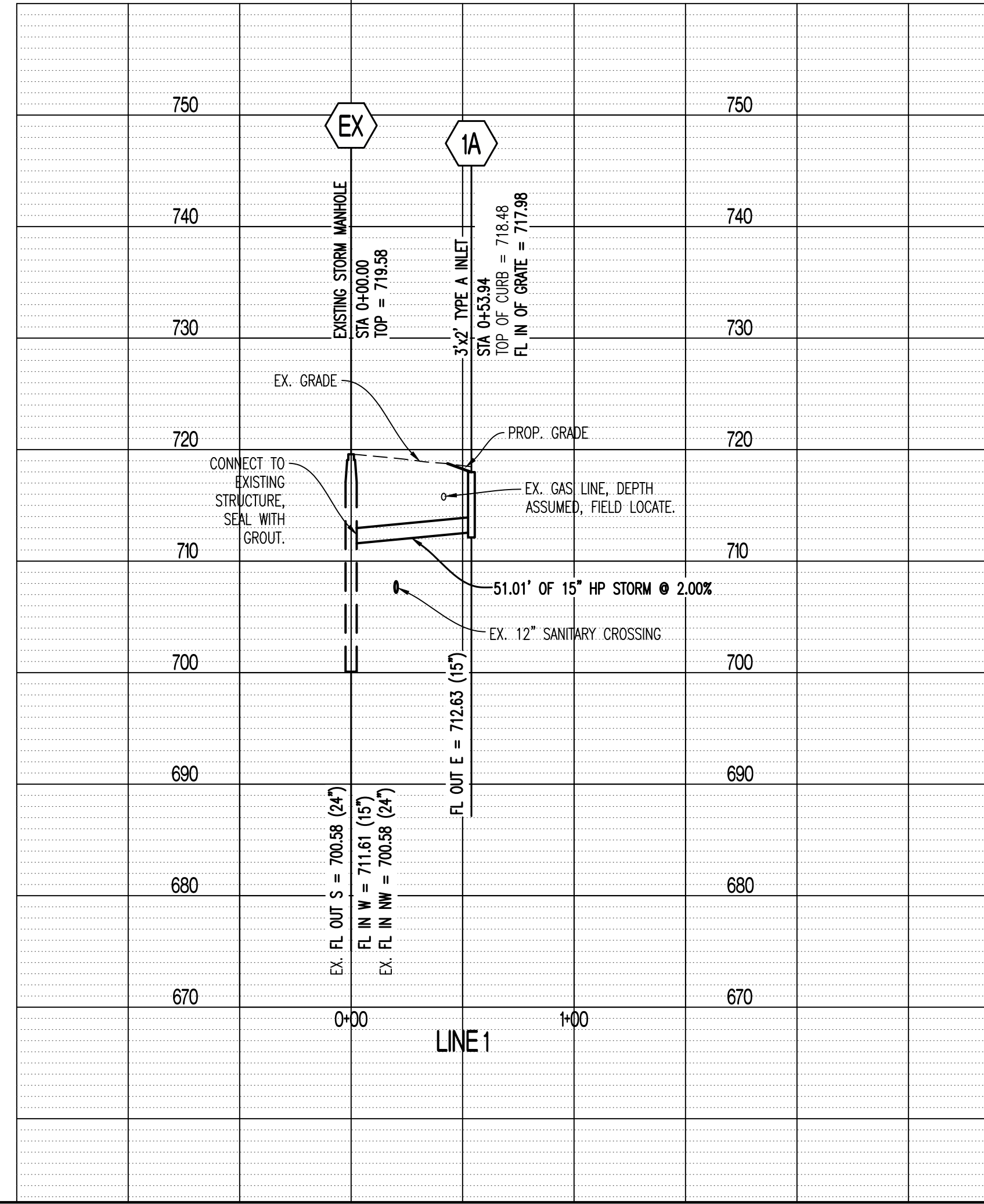


- NOTE:
1. PLACE WEEP HOLES ON UPSTREAM FACE OF ALL STRUCTURES AND ALSO ON ROADWAY FACE OF CURB INLET STRUCTURES.
 2. WEEP HOLE FILTER FABRIC SHALL CONSIST OF A NON-WOVEN, POLYPROPYLENE TYPE FABRIC SUCH AS: AMOCO 4553 NON-WOVEN GEOTEXTILE FABRIC OR APPROVED EQUAL.

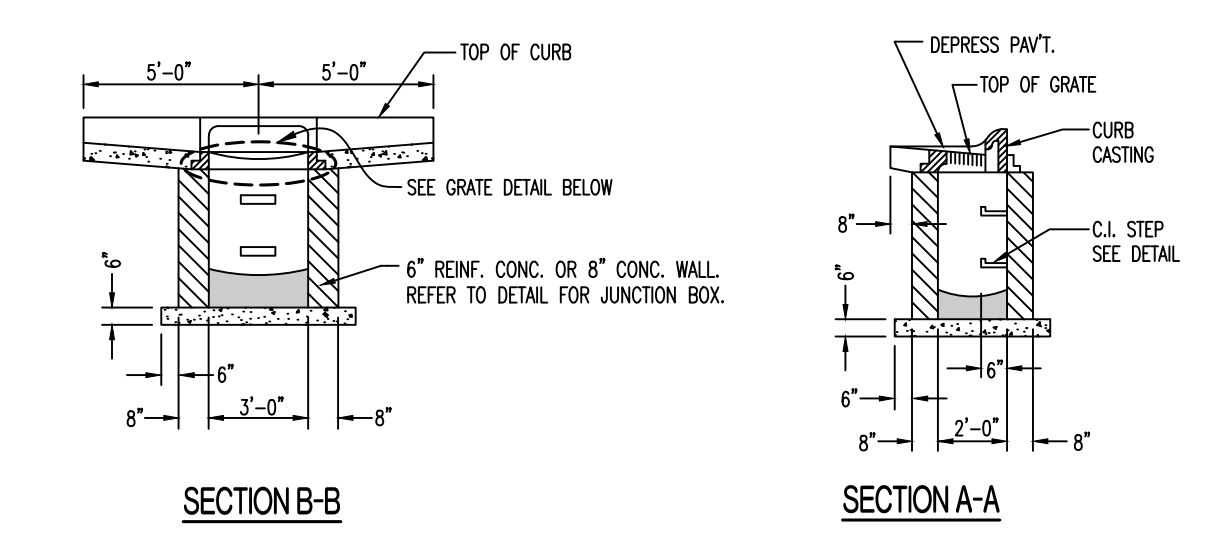
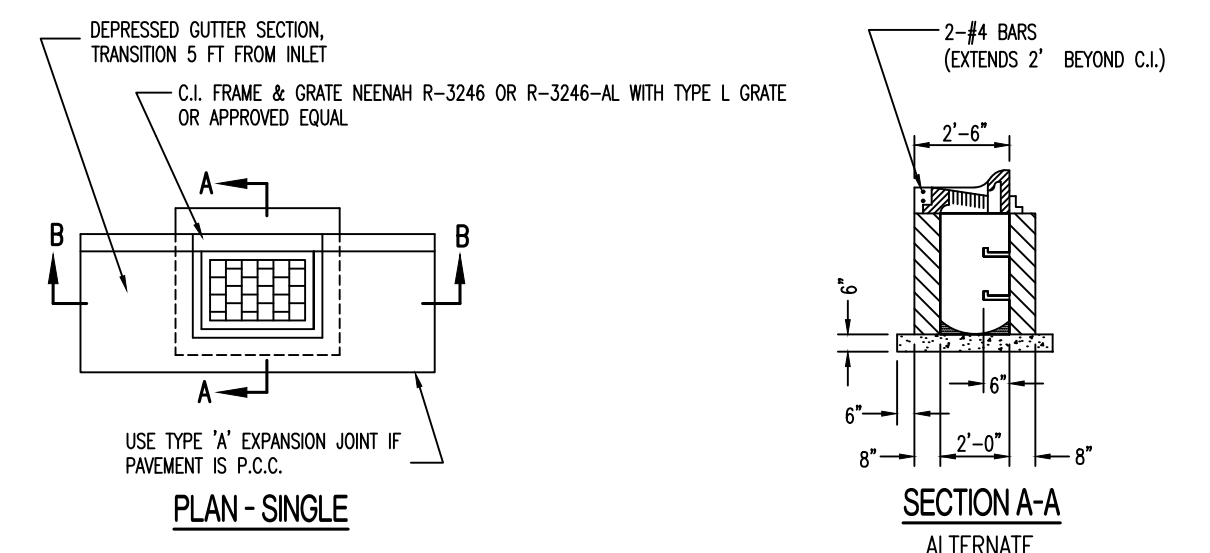
DRAINAGE STRUCTURE WEEP HOLES

SCALE:
HORIZ 1" = 50'
VERT 1" = 10'

LEGEND OF LABELS:
REFERS TO PIPE EMBEDMENT DETAIL (UNDER PAVEMENT). SEE DETAIL ON THIS SHEET.

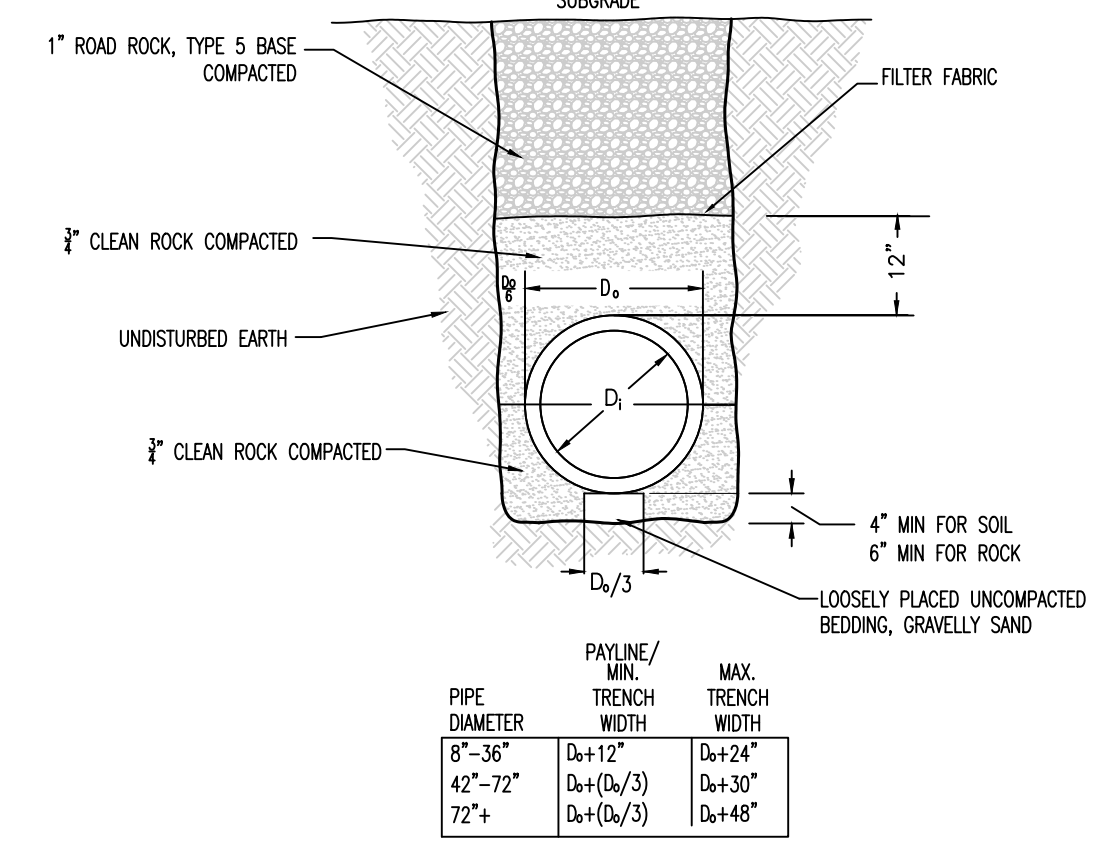


ALTERNATE #2 - TRENCH DRAIN REINSTALLATION WITH NEW UPPER TRENCH FOUNDATION



- NOTES:
1. CONCRETE SHALL BE CLASS E FOR BASES AND D FOR WALLS AND TOP.
 2. REINFORCING STEEL SHALL BE GRADE 60
 3. INSTALL WEEP HOLES AS PER DETAIL
 4. STRUCTURES WHERE H>8" SHALL BE REINFORCED CONCRETE (#4 BARS AT 12" CTRS., BOTH WAYS AND #4 BARS DIAGONAL AT PIPE OPENINGS)

SINGLE TYPE 'A' INLET



PIPE EMBEDMENT (UNDER PAVEMENT)

PIPE DIAMETER	PAYLINE/ MIN. TRENCH WIDTH	MAX. TRENCH WIDTH
8"-36"	D+12"	D+24"
42"-72"	D+(D/3)	D+30"
72"+	D+(D/3)	D+45"

