

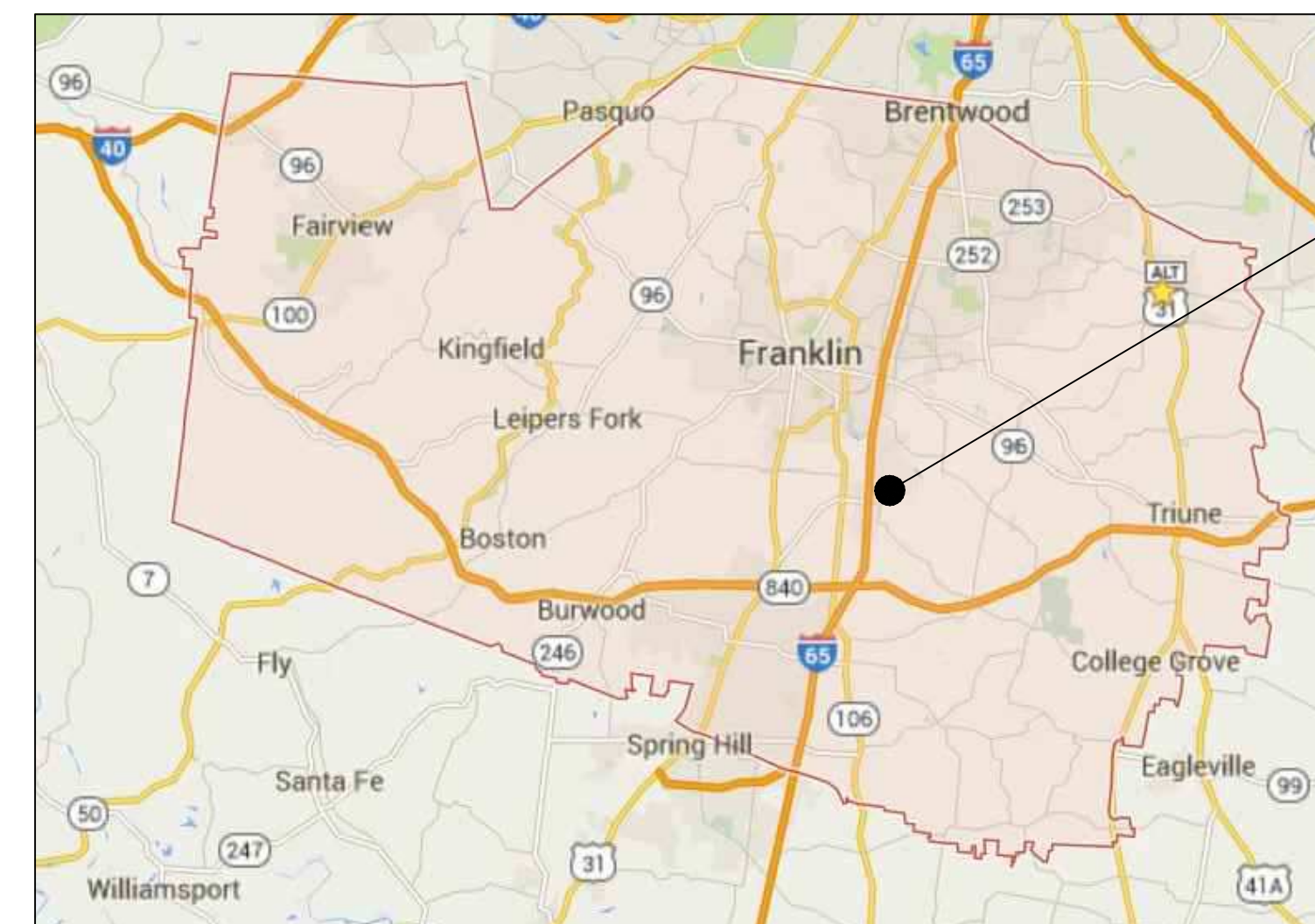
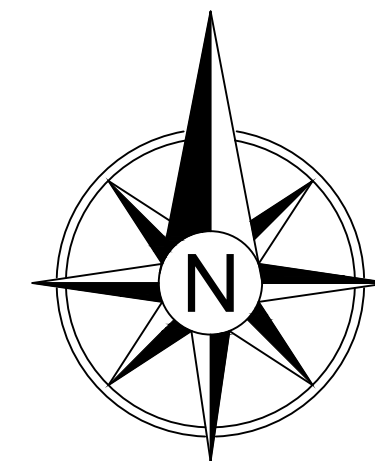
WILLIAMSON COUNTY AGRICULTURAL EXPOSITION PARK COUNTY MAYOR: ROGERS ANDERSON

Ag Expo PARK DIRECTOR: KENNY WALLACE

PROPOSED ADA PARKING ADDITION

TAX MAP: 117, PARCEL: 27

OWNER: WILLIAMSON COUNTY GOVERNMENT



PROJECT LOCATION

VICINITY MAP



PROJECT LOCATION:
Ag EXPO PARK-ADA
PARKING ADDITION

LOCATION MAP

PROJECT ADDRESS:
AgEXPO PARK
4215 LONG LANE
FRANKLIN, TENNESSEE 37064

INDEX OF SHEETS

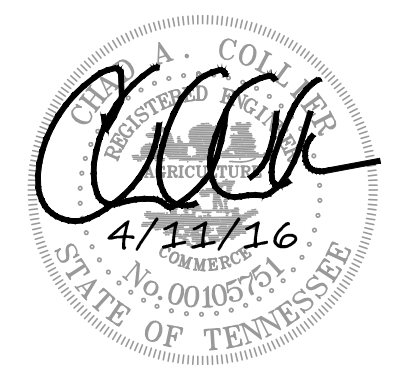
NO.	SHEET NAME
C0.00	COVER SHEET
C0.01	GENERAL NOTES
C0.10	EXISTING CONDITIONS
C1.00	OVERALL SITE PLAN
C1.01	SITE PLAN
C2.00	GRADING & DRAINAGE
C3.00	EPSC - PRE CONDITIONS
C3.10	EPSC - POST CONDITIONS
C3.20	EPSC - NOTES & DETAILS
C4.00	FIRE TRUCK ACCESS
C5.01	DETAILS
C5.02	DETAILS
L1.00	LANDSCAPE PLAN
L1.01	LANDSCAPE DETAILS

NO.	DATE	BY	DESCRIPTION
2	03/16/2016	CRC	COF COMMENTS

COLLIER
ENGINEERING CO., INC.
CONSULTING • DESIGN • CONSTRUCTION

5560 FRANKLIN PIKE CIRCLE, BRENTWOOD, TN 37027
PHONE: (615) 331-1441 FAX: (615) 331-1050

**ADA PARKING LOT ADDITION
AGRICULTURE EXPOSITION PARK
TAX MAP: 117, PARCEL: 27.00
WILLIAMSON COUNTY, TENNESSEE**



DATE: 03/16/2016
DESIGNED BY: CRC
SUPERVISED BY: MJP
CHECKED BY: CAC

COVER SHEET

SHEET NO: C0.00

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ADJACENT OWNERS			
	Owner	MAP	PARCEL
1	MICHAEL AND DENISE BENNETT	106	179.04
2	IMMANUEL COMMUNITY BAPTIST CHURCH	106	179.08
3	DWAINE AND RITA ALLISON	106	179.06
3A	DWAINE AND RITA ALLISON	106	179.06
4	DAN AND BOBBI OSWALD	117	32.02
5	DORRIS & GREGORY THOMAS	117	32.01
6	BRANT AND BARBARA DODD	117	28
7	VETERINARY SPECIALTY PROPERTIES LLC	117	27.01
8	KARL J RAMBO	106	177
9	CITY OF FRANKLIN	106	178.01

NO.	DATE	BY	REVISIONS	DESCRIPTION

JE COLLIER
 ENGINEERING CO., INC.
 CONSULTING DESIGN & CONSTRUCTION

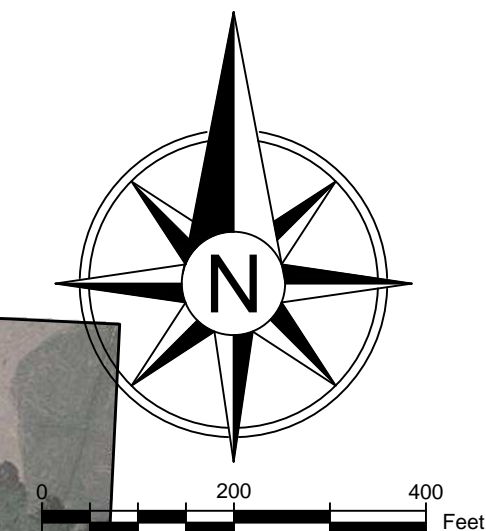
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EXISTING CONDITIONS
 SHEET NO: C0.10



SITE DATA CHART

A. PROJECT NAME:
WILLIAMSON COUNTY AGRICULTURE EXPOSITION PARK (ADA - PARKING ADDITION)
PROJECT NO: 5851
ADDRESS: 4215 LONG LANE
CITY: FRANKLIN
COUNTY: WILLIAMSON
STATE: TENNESSEE
CIVIL DISTRICT: 10

B. ZONING: CIVIC AND INSTITUTIONAL DISTRICT (CI)
ZONING OVERLAY: HILLSIDE/HILLCREST OVERLAY DISTRICT (HHO)
CHARACTER AREA OVERLAY: GOOSE CREEK (GCCO)
DEVELOPMENT STANDARD DESIGNATIONS: GC4D
OVERALL ACREAGE OF PROPERTY: 100 +/- ACRES (PER TAX MAP)
OVERALL SQUARE FOOTAGE OF SITE: 4,356,000 +/- S.F.
PROJECT AREA: 1 +/- ACES (INCLUDES PARKING LOT, DRIVEWAY TIE-INS & STORMWATER FEATURES)

C. OWNER: WILLIAMSON COUNTY GOVERNMENT
ADDRESS: 1320 W. MAIN ST
SUITE 103
FRANKLIN, TN 37064
PHONE NO: 615-790-5704
EMAIL: KeithF@williamson-tn.org

APPLICANT: COLLIER ENGINEERING, INC
ADDRESS: 5560 FRANKLIN PIKE CIRCLE
BRENTWOOD, TN 37027
PHONE NO: 615-331-1441
CONTACT: CHRISTOPHER COLLIER, E.I.T
EMAIL: CHRIS.COLLIER@COLLIERENGINEERING.COM

D. EXISTING TREE CANOPY AREA /PERCENTAGE: 24.5 +/- ACRES /24.5%
CANOPY TO BE REMOVED: 0.0 +/- ACRES /0%
POST TREE CANOPY AREA /PERCENTAGE: 24.5 +/- ACRES (24.5% OF PROPERTY)

E. SITE BUILDINGS
ACTIVITY CENTER: 145,000 SF +/-
OUTDOOR SHELTERS: 70,00 SF +/-
TOTAL: 215,000 SF +/-

G. ADA PARKING CALCULATION PER CODE (GOVERNED BY ICCA117.1-2009)
MINIMUM ADA REQUIRED PARKING: 39 SPACES
MINIMUM ADA VAN PARKING: 7 SPACES

EXISTING PARKING SPACES: 2850 SPACES +/-
NEW ADA PARKING SPACES PROVIDED: 48 SPACES (7 VAN SPACES)
TOTAL PARKING TO BE PROVIDED: 2900 SPACES +/-

ADJACENT OWNERS		
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VETERINARY SPECIALTY PROPERTIES LLC	117	27.01
KARL J RAMBO	106	177
CITY OF FRANKLIN	106	178.01
Impervious Table	Acres	% of Site
Total Site Area	106	100%
Gravel Lots and Drives	18	17%
Asphalt Pavement Lot and Drive	9.8	9%
Roof Tops	4.93	5%
Total Impervious Existing	32.73	31%
Proposed Disturbance	0.58	1%
Post impervious Surface (Paved Lot)	0.58	1%
Total Impervious Post Development	33.31	31%

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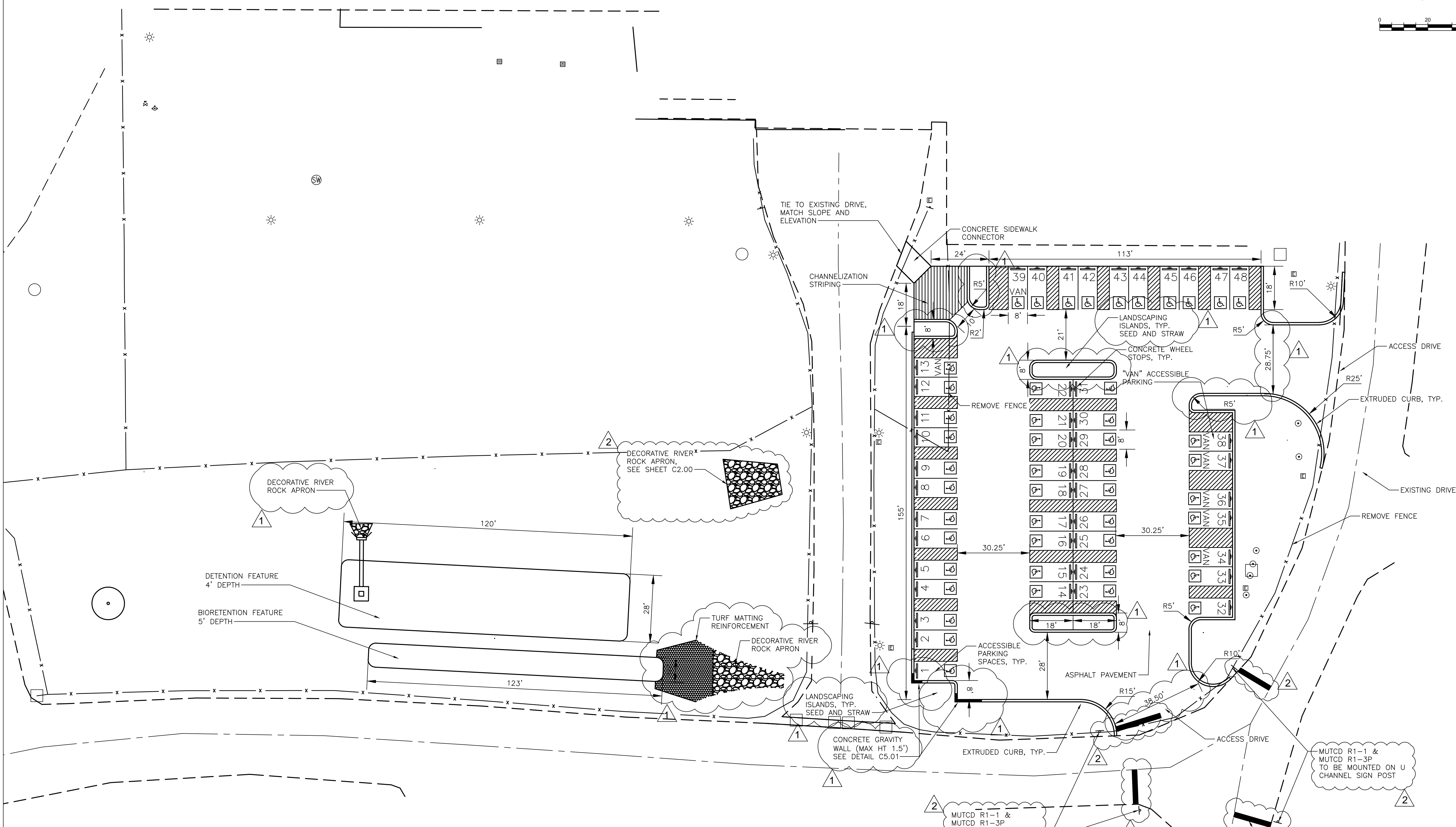
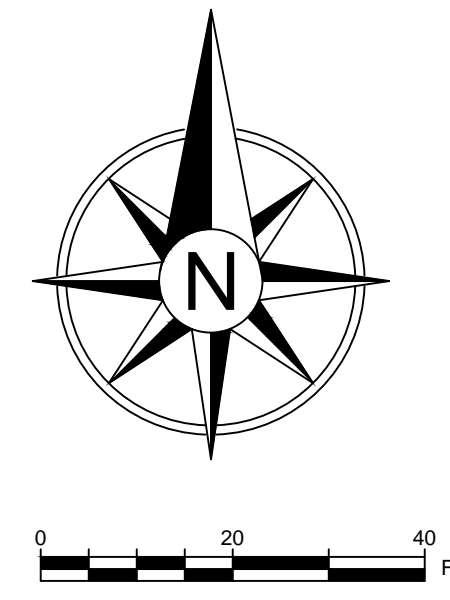
ADA PARKING LOT ADDITION
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TAX MAP: 117, PARCEL: 27.00
WILLIAMSON COUNTY, TENNESSEE



DATE: 03/16/2016
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CHECKED BY: CAC

OVERALL SITE PLAN
SHEET NO: C1.00

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MUTCD SIGN SCHEDULE					
SIGN #	SIGN	DESCRIPTION	MUTCD	SIZE	QUANTITY
R1-1		*STOP* SIGN	R1-1	30"x30"	4
R1-3P		*ALL WAY* SIGN	R1-3P	18"x6"	4

NOTE A : REFER TO THE MUTCD MANUAL FOR INSTALLATION DETAILS PERTAINING TO SIGN PLACEMENT AND HEIGHTS.

NO.	DATE	BY	DESCRIPTION
1	04/11/16	CRC	COF COMMENTS
2	05/03/16	CRC	COF COMMENTS

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SITE PLAN

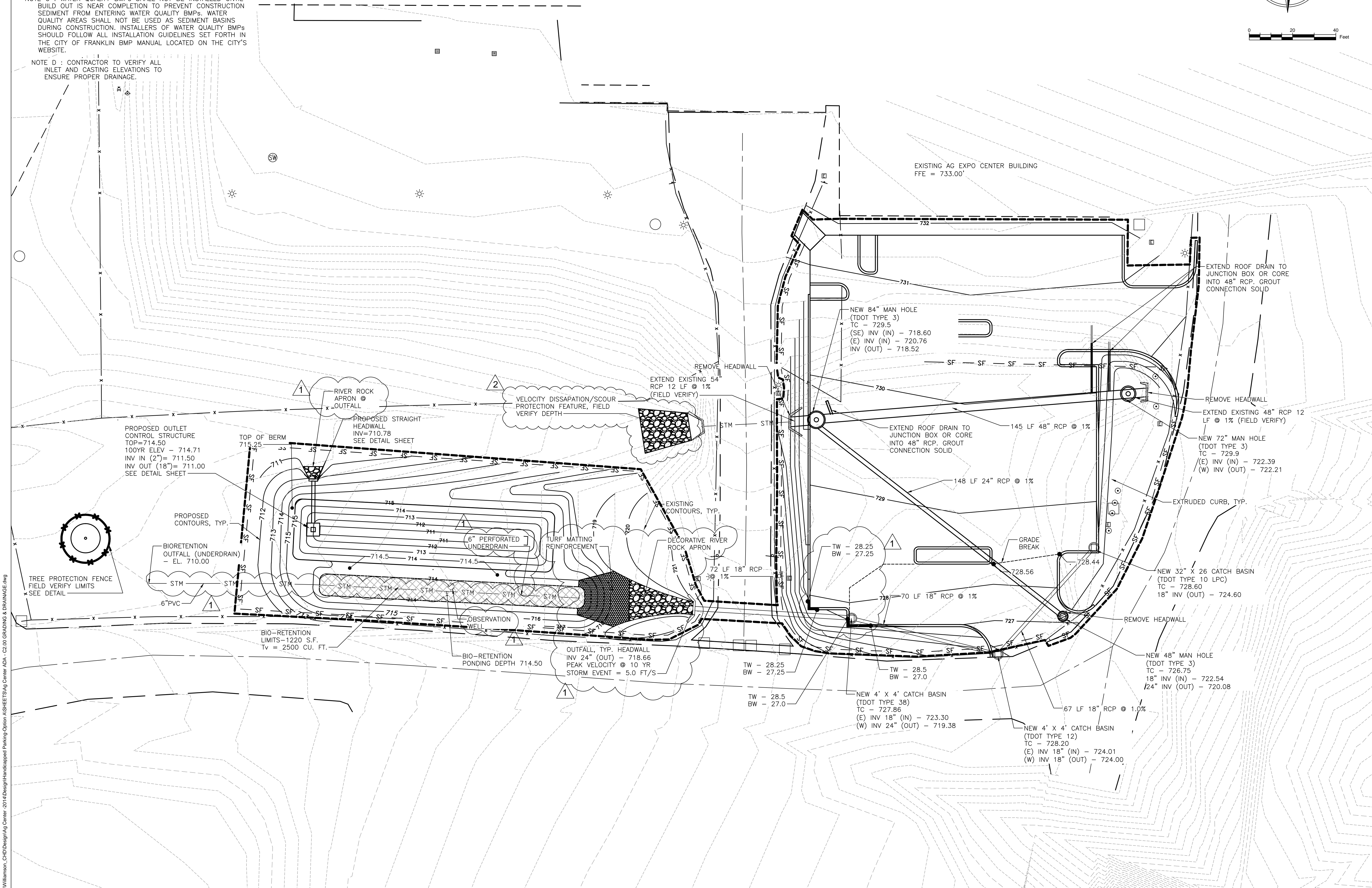
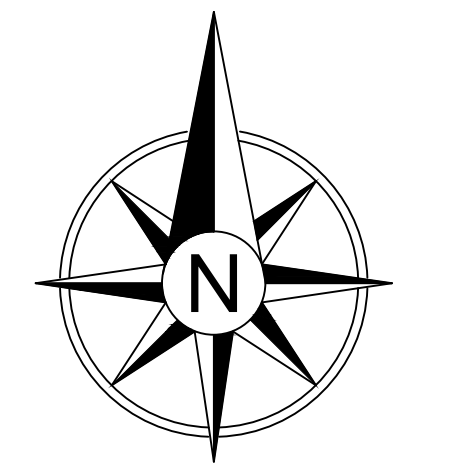
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NOTE A : ALL TREE-PROTECTION FENCING SHALL BE IN PLACE PRIOR TO THE ISSUANCE OF A GRADING OR LAND DISTURBANCE PERMIT AND SHALL BE MAINTAINED IN GOOD WORKING ORDER UNTIL ALL CONSTRUCTION ACTIVITY IS COMPLETED. NO DISTURBANCE IS PERMITTED IN A TREE PRESERVATION AREA. ANY REQUIRED EROSION CONTROL MEASURES SHALL BE PLACED OUTSIDE ANY TREE PROTECTION FENCING.

NOTE B : WATER QUALITY SIGNS SHALL BE PLACED WITHIN THE WATER QUALITY AREAS. THE SIGNS, MATERIALS, AND LABOR TO INSTALL WILL BE PROVIDED BY THE CITY STAFF.

NOTE C : WATER QUALITY BMPs SHALL NOT BE INSTALLED UNTIL BUILD OUT IS NEAR COMPLETION TO PREVENT CONSTRUCTION SEDIMENT FROM ENTERING WATER QUALITY BMPs. WATER QUALITY AREAS SHALL NOT BE USED AS SEDIMENT BASINS DURING CONSTRUCTION. INSTALLERS OF WATER QUALITY BMPs SHOULD FOLLOW ALL INSTALLATION GUIDELINES SET FORTH IN THE CITY OF FRANKLIN BMP MANUAL LOCATED ON THE CITY'S WEBSITE.

NOTE D : CONTRACTOR TO VERIFY ALL INLET AND CASTING ELEVATIONS TO ENSURE PROPER DRAINAGE.



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GRADING & DRAINAGE
SHEET NO: C2.00

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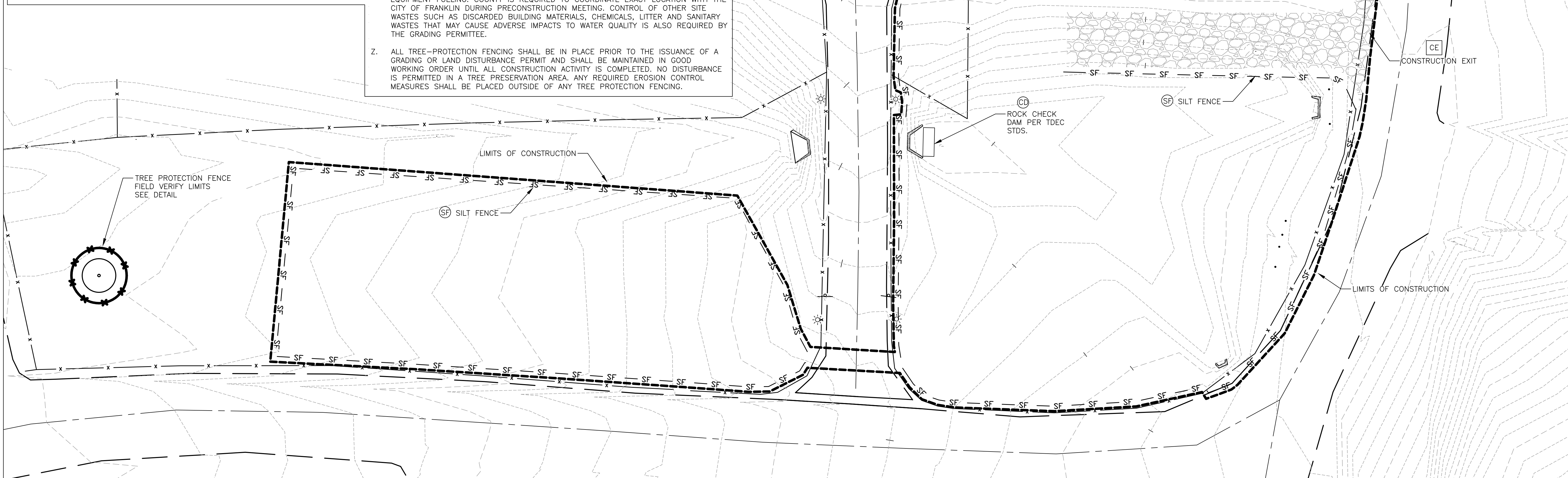
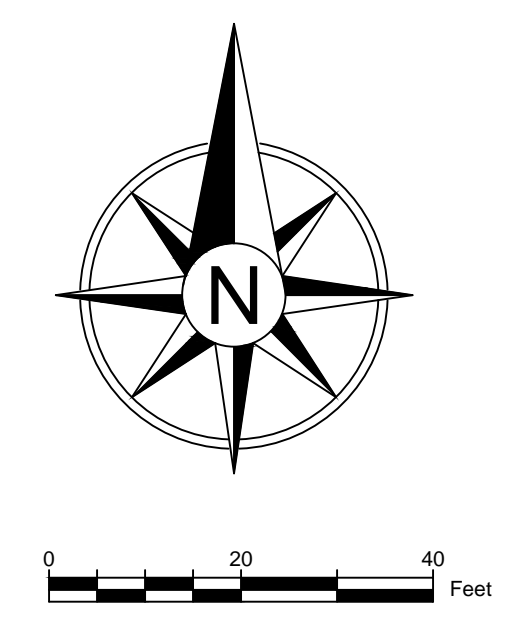
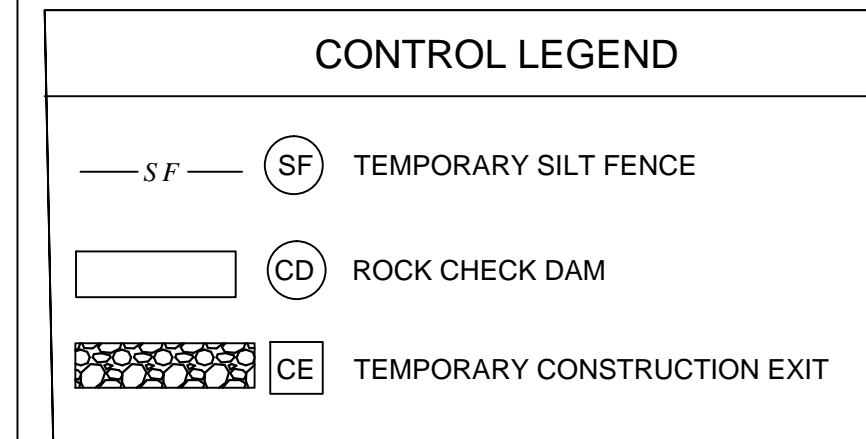
GENERAL EROSION AND SEDIMENT CONTROL NOTES:

- A. THE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF THIS DRAWING ("SITE MAP"), THE STANDARD DETAILS, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- B. WILLIAMSON COUNTY HWY DEPT AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- C. WILLIAMSON COUNTY HWY DEPT SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- D. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- E. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- F. WILLIAMSON COUNTY HWY DEPT SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- G. WILLIAMSON COUNTY HWY DEPT SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
- H. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- I. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- J. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- K. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- L. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.

- M. ALL DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE, MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAW/HAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING OR BLANKETS AS SHOWN ON SITE MAP.
- N. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED AS SHOWN ON THE PLANS. THESE AREAS SHALL BE SEED, SODDED, AND/OR VEGETATED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
- O. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE. ONLY USE INGRESS/EGRESS LOCATIONS AS PROVIDED.
- P. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- Q. COUNTY OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- R. ON-SITE & OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- S. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- T. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE COUNTY SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION AND POLLUTANT DISCHARGE.
- U. SEE SITE PLAN FOR ANY PERMANENT AND/OR TEMPORARY SIGNAGE.
- V. COUNTY IS TO DESIGNATE/IDENTIFY AREAS ON THE SITE MAPS, INSIDE OF THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIAL STORAGE.
- W. REFER TO THE SWPPP FOR REPORTABLE SPILL QUANTITIES OF PETROLEUM PRODUCTS AND/OR HAZARDOUS WASTES.
- X. COUNTY TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
- Y. COUNTY IS REQUIRED TO PROVIDE AN AREA FOR CONCRETE WASH DOWN AND EQUIPMENT FUELING. COUNTY IS REQUIRED TO COORDINATE EXACT LOCATION WITH THE CITY OF FRANKLIN DURING PRECONSTRUCTION MEETING. CONTROL OF OTHER SITE WASTES SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER AND SANITARY WASTES THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY IS ALSO REQUIRED BY THE GRADING PERMITTEE.
- Z. ALL TREE-PROTECTION FENCING SHALL BE IN PLACE PRIOR TO THE ISSUANCE OF A GRADING OR LAND DISTURBANCE PERMIT AND SHALL BE MAINTAINED IN GOOD WORKING ORDER UNTIL ALL CONSTRUCTION ACTIVITY IS COMPLETED. NO DISTURBANCE IS PERMITTED IN A TREE PRESERVATION AREA. ANY REQUIRED EROSION CONTROL MEASURES SHALL BE PLACED OUTSIDE OF ANY TREE PROTECTION FENCING.

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CITY OF FRANKLIN STD. NOTE
WATER QUALITY BMPs SHALL NOT BE INSTALLED UNTIL BUILD OUT IS NEAR COMPLETION TO PREVENT CONSTRUCTION SEDIMENT FROM ENTERING WATER QUALITY BMPs. WATER QUALITY AREAS SHALL NOT BE USED AS SEDIMENT BASINS DURING CONSTRUCTION. INSTALLERS OF WATER QUALITY BMPs SHOULD FOLLOW ALL INSTALLATION GUIDELINES SET FORTH IN THE CITY OF FRANKLIN BMP MANUAL LOCATED ON THE CITY'S WEBSITE.



CITY OF FRANKLIN STD NOTE
BIORETENTION CONSTRUCTION SEQUENCING:

1. CONTRACTOR IS TO PROVIDE METHOD OF DIVERTING RUNOFF FLOW AROUND THE CONSTRUCTION OF THE BIORETENTION AREA DURING PERIODS OF RAINFALL TO ENSURE SEDIMENT DOES NOT ENTER BIORETENTION AREA.
2. EXCAVATE BIORETENTION AREA. EXCAVATORS OR BACKHOES SHOULD WORK FROM THE SIDES TO EXCAVATE THE BIORETENTION AREA TO THE DESIGN DEPTH AND DIMENSIONS. EXCAVATING EQUIPMENT SHOULD HAVE SCOOPS WITH ADEQUATE REACH SO THEY DO NOT SIT INSIDE THE FOOTPRINT OF THE BIORETENTION AREA.
3. SCARIFY SUBGRADE BY RIPPING THE BOTTOM SOILS TO A DEPTH OF 12 INCHES PRIOR TO STONE REPLACEMENT.
4. CALL CITY OF FRANKLIN INSPECTOR FOR INSPECTION 615-791-3218.
5. INSTALL WASHED STONE LAYER. INSTALL UNDERDRAIN PIPES AND CONNECT TO THE OUTLET STRUCTURE. INSTALL ADDITIONAL STONE ON THE UNDERDRAIN PIPES AS PER THE BIORETENTION SECTION DETAIL. CONTRACTOR TO FLAG THE UNDERDRAIN LOCATIONS (3 FT EACH SIDE) AS THE ADDITIONAL SECTIONS ARE BEING INSTALLED. A SMALL BOBCAT LOADER IS TO BE USED FOR PLACEMENT OF ADDITIONAL SECTIONS AND IS TO AVOID ACCESSING THE AREAS OF THE UNDERDRAIN PIPE INSTALLATION TO PREVENT DAMAGE TO THE PERFORATED PIPE.

6. INSTALL PERMEABLE GEOTEXTILE FABRIC.
7. DELIVER THE SOIL MEDIA AND STORE IT ON PLASTIC SHEETING WITH THE APPROPRIATE EROSION CONTROL MEASURES ON THE DOWNHILL AND BIORETENTION SIDES.
8. CALL CITY OF FRANKLIN INSPECTOR FOR INSPECTION 615-791-3218
9. INSTALL THE SOIL MEDIA IN 12" LIFTS UNTIL THE DESIRED TOP ELEVATION IS ACHIEVED. WAIT A FEW DAYS TO CHECK FOR SETTLEMENT AND ADD ADDITIONAL MEDIA AS NEEDED TO ACHIEVE THE DESIGN ELEVATIONS. DO NOT COMPACT WITH EQUIPMENT.
10. PREPARE PLANTING HOLES FOR ANY TREES AND SHRUBS. INSTALL THE VEGETATION AND WATER ACCORDINGLY.
11. INSTALL SPECIFIED GROUNDCOVER IN BOTTOM OF BIORETENTION AREA.
12. SOD SLOPES
13. CONTRACTOR TO FLAG LIMITS OF BIORETENTION BASIN FOR SURVEY TO LOCATE AND SHOW ON AS-BUILT PLANS.

- CITY OF FRANKLIN EPSC General Notes
1. Sediment shall be removed from silt fence when reaches 1/3 the height of the fence; sediment shall be removed from all other EPSC measures and control as recommended in the TNEPSC Handbook, and must be removed when design capacity has been reduced by 50%.
 2. EPSCs shall be implemented before earthmoving begins.
 3. Areas where construction has temporarily/permanently ceased shall be stabilized within 15 days (7 days for ≥35% slopes)
 4. Inspections of outfalls/EPSC measures shall be conducted at least twice weekly and at least 72 hours apart
 5. Vegetation, EPSCs & other protective

6. Construction shall be phased for activities that will disturb >50 acres.
7. EPSCs shall be designed to control the rainfall and runoff from a 2-year, 24-hour return interval storm; be designed to control the rainfall and runoff from a 5-year, 24-hour return interval storm.
8. Temporary sediment basin(s) shall be provided for on-site outfalls that receive drainage from ≥10 acres; ≥5 acres for sites that discharge to impaired or exceptional TN waters.
9. Green infrastructure BMPs shall be protected during site work, with silt fence, to prevent sedimentation and compaction.

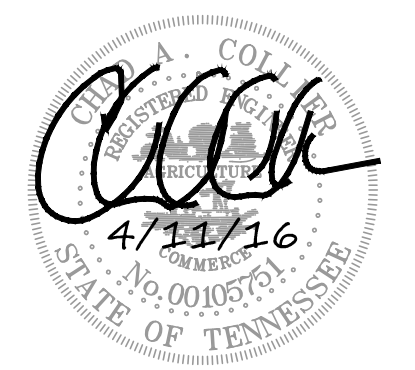
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NO.	DATE	BY	DESCRIPTION

COLLIER ENGINEERING CO., INC.
CONSULTING & DESIGN & CONSTRUCTION

5560 FRANKLIN PIKE CIRCLE, BRENTWOOD, TN 37027
PHONE: (615) 331-1441 FAX: (615) 331-1050

ADA PARKING LOT ADDITION
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TAX MAP: 117, PARCEL: 27.00
WILLIAMSON COUNTY, TENNESSEE



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EPSC - PRE

SHEET NO: C3.00

EROSION PREVENTION AND SEDIMENT CONTROL PHASING PLAN

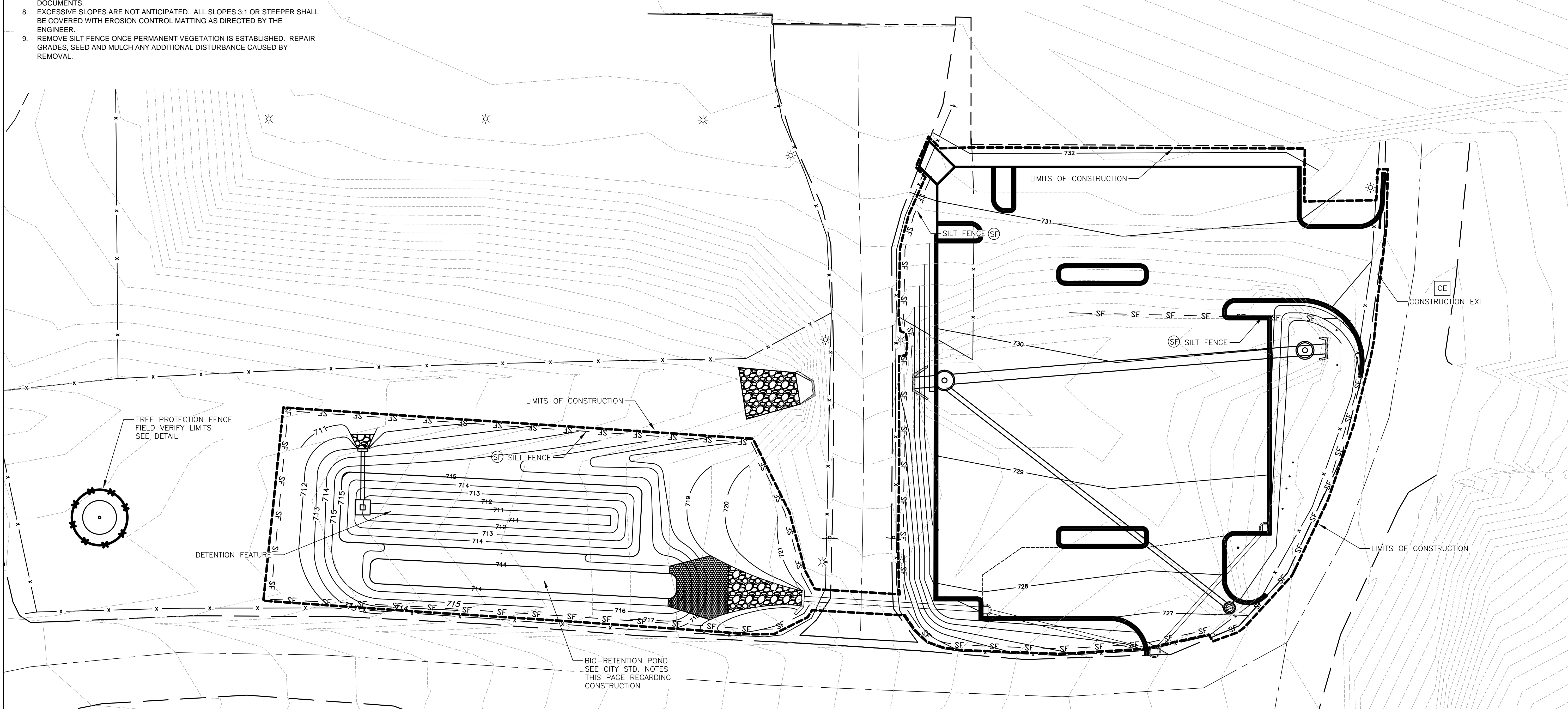
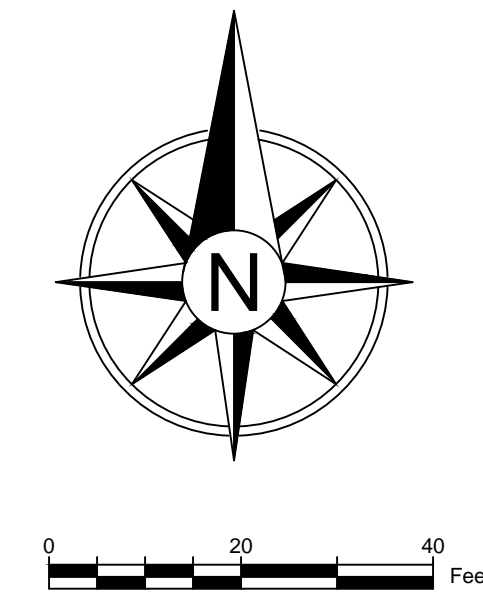
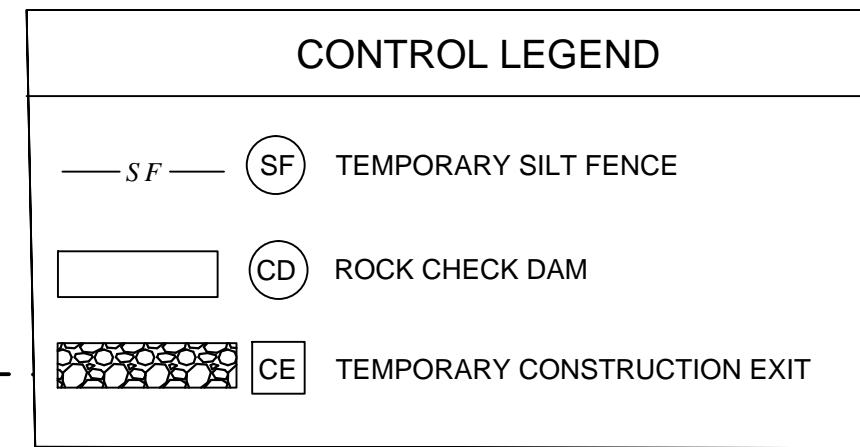
- INITIAL PHASE**
- CONTRACTOR TO INSTALL SILT FENCE, INLET PROTECTION AND CONSTRUCTION EXITS AS SHOWN OR AS DIRECTED BY THE ENGINEER PRIOR TO CLEARING AND/OR ANY OTHER LAND DISTURBANCE.
 - ALL MEASURES TO BE INSPECTED AND APPROVED BY CITY OF FRANKLIN ENGINEERING DEPT PRIOR ANY LAND DISTURBANCE ACTIVITIES.

- CONSTRUCTION PHASE**
- CONTRACTOR SHALL MAINTAIN SILT FENCE AND CONSTRUCTION EXITS AND REMOVE ANY ACCUMULATED SEDIMENT AS NECESSARY TO ENSURE CONTINUED FUNCTION OF SEDIMENT CONTROL DEVICES.
 - CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS NECESSARY TO CONTROL ESCAPE OF SEDIMENT FROM THE PROJECT SITE IF INITIAL CONTROLS ARE NOT SUFFICIENT.
 - OWNER'S REPRESENTATIVE WILL INSPECT EPSC MEASURES AS DESCRIBED IN THE SWPPP. CONTRACTOR WILL MAKE REPAIRS AND PROVIDE MAINTENANCE AS DIRECTED AND IN ACCORDANCE WITH THE SWPPP.

- FINAL STABILIZATION PHASE**
- CONTRACTOR SHALL DRESS TRAIL EDGES WITH TOPSOIL, SEED AND MULCH PER THE CONTRACT DOCUMENTS.
 - ALL DISTURBED AREA SHALL BE SEEDED AND MULCHED PER THE CONTRACT DOCUMENTS.
 - EXCESSIVE SLOPES ARE NOT ANTICIPATED. ALL SLOPES 3:1 OR STEEPER SHALL BE COVERED WITH EROSION CONTROL MATTING AS DIRECTED BY THE ENGINEER.
 - REMOVE SILT FENCE ONCE PERMANENT VEGETATION IS ESTABLISHED. REPAIR GRADES, SEED AND MULCH ANY ADDITIONAL DISTURBANCE CAUSED BY REMOVAL.

NOTE:
ALL TREE-PROTECTION FENCING SHALL BE IN PLACE PRIOR TO THE ISSUANCE OF A GRADING OR LAND DISTURBANCE PERMIT AND SHALL BE MAINTAINED IN GOOD WORKING ORDER UNTIL ALL CONSTRUCTION ACTIVITY IS COMPLETED. NO DISTURBANCE IS PERMITTED IN A TREE PRESERVATION AREA. ANY REQUIRED EROSION CONTROL MEASURES SHALL BE PLACED OUTSIDE ANY TREE PROTECTION FENCING.

CITY OF FRANKLIN STD. NOTE
WATER QUALITY BMPs SHALL NOT BE INSTALLED UNTIL BUILD OUT IS NEAR COMPLETION TO PREVENT CONSTRUCTION SEDIMENT FROM ENTERING WATER QUALITY BMPs. WATER QUALITY AREAS SHALL NOT BE USED AS SEDIMENT BASINS DURING CONSTRUCTION. INSTALLERS OF WATER QUALITY BMPs SHOULD FOLLOW ALL INSTALLATION GUIDELINES SET FORTH IN THE CITY OF FRANKLIN BMP MANUAL LOCATED ON THE CITY'S WEBSITE.



CITY OF FRANKLIN STD NOTE
BIORETENTION CONSTRUCTION SEQUENCING:

- CONTRACTOR IS TO PROVIDE METHOD OF DIVERTING RUNOFF FLOW AROUND THE CONSTRUCTION OF THE BIORETENTION AREA DURING PERIODS OF RAINFALL TO ENSURE SEDIMENT DOES NOT ENTER BIORETENTION AREA.
- EXCAVATE BIORETENTION AREA. EXCAVATORS OR BACKHOES SHOULD WORK FROM THE SIDES TO EXCAVATE THE BIORETENTION AREA TO THE DESIGN DEPTH AND DIMENSIONS. EXCAVATING EQUIPMENT SHOULD HAVE SCOOPS WITH ADEQUATE REACH SO THEY DO NOT SIT INSIDE THE FOOTPRINT OF THE BIORETENTION AREA.
- SCARIFY SUBGRADE BY RIPPING THE BOTTOM SOILS TO A DEPTH OF 12 INCHES PRIOR TO STONE REPLACEMENT.
- CALL CITY OF FRANKLIN INSPECTOR FOR INSPECTION 615-791-3218.
- INSTALL WASHED STONE LAYER. INSTALL UNDERDRAIN PIPES AND CONNECT TO THE OUTLET STRUCTURE. INSTALL ADDITIONAL STONE ON THE UNDERDRAIN PIPES AS PER THE BIORETENTION SECTION DETAIL. CONTRACTOR TO FLAG THE UNDERDRAIN LOCATIONS (3 FT EACH SIDE) AS THE ADDITIONAL SECTIONS ARE BEING INSTALLED. A SMALL BOBCAT LOADER IS TO BE USED FOR PLACEMENT OF ADDITIONAL SECTIONS AND IS TO AVOID ACCESSING THE AREAS OF THE UNDERDRAIN PIPE INSTALLATION TO PREVENT DAMAGE TO THE PERFORATED PIPE.

- INSTALL PERMEABLE GEOTEXTILE FABRIC.
- DELIVER THE SOIL MEDIA AND STORE IT ON PLASTIC SHEETING WITH THE APPROPRIATE EROSION CONTROL MEASURES ON THE DOWNHILL AND BIORETENTION SIDES.
- CALL CITY OF FRANKLIN INSPECTOR FOR INSPECTION 615-791-3218
- INSTALL THE SOIL MEDIA IN 12" LIFTS UNTIL THE DESIRED TOP ELEVATION IS ACHIEVED. WAIT A FEW DAYS TO CHECK FOR SETTLEMENT AND ADD ADDITIONAL MEDIA AS NEEDED TO ACHIEVE THE DESIGN ELEVATIONS. DO NOT COMPACT WITH EQUIPMENT.
- PREPARE PLANTING HOLES FOR ANY TREES AND SHRUBS. INSTALL THE VEGETATION AND WATER ACCORDINGLY.
- INSTALL SPECIFIED GROUNDCOVER IN BOTTOM OF BIORETENTION AREA.
- SOD SLOPES
- CONTRACTOR TO FLAG LIMITS OF BIORETENTION BASIN FOR SURVEY TO LOCATE AND SHOW ON AS-BUILT PLANS.

CITY OF FRANKLIN EPSC General Notes

- Sediment shall be removed from silt fence when reaches 1/3 the height of the fence; sediment shall be removed from all other EPSC measures and control as recommended in the TNEPSC Handbook, and must be removed when design capacity has been reduced by 50%.
- EPSCs shall be implemented before earthmoving begins.
- Areas where construction has temporarily/permanently ceased shall be stabilized within 15 days (7 days for ≥35% slopes)
- Inspections of outfalls/EPSC measures shall be conducted at least twice weekly and at least 72 hours apart
- Vegetation, EPSCs & other protective measures shall be repaired, replaced, or modified within 7 days of being notified of an issue
- Construction shall be phased for activities that will disturb >50 acres.
- EPSCs shall be designed to control the rainfall and runoff from a 2-year, 24-hour return interval storm; be designed to control the rainfall and runoff from a 5-year, 24-hour return interval storm.
- Temporary sediment basin(s) shall be provided for on-site outfalls that receive drainage from ≥10 acres; ≥5 acres for sites that discharge to impaired or exceptional TN waters.
- Green infrastructure BMPs shall be protected during site work, with silt fence, to prevent sedimentation and compaction.

NO.	DATE	BY	DESCRIPTION

COLLIER ENGINEERING CO., INC.
CONSULTING & DESIGN & CONSTRUCTION

5560 FRANKLIN PIKE CIRCLE, BRENTWOOD, TN 37027
PHONE: (615) 331-1441 FAX: (615) 331-1050

ADA PARKING LOT ADDITION
AGRICULTURE EXPOSITION PARK
TAX MAP: 117, PARCEL: 27.00
WILLIAMSON COUNTY, TENNESSEE

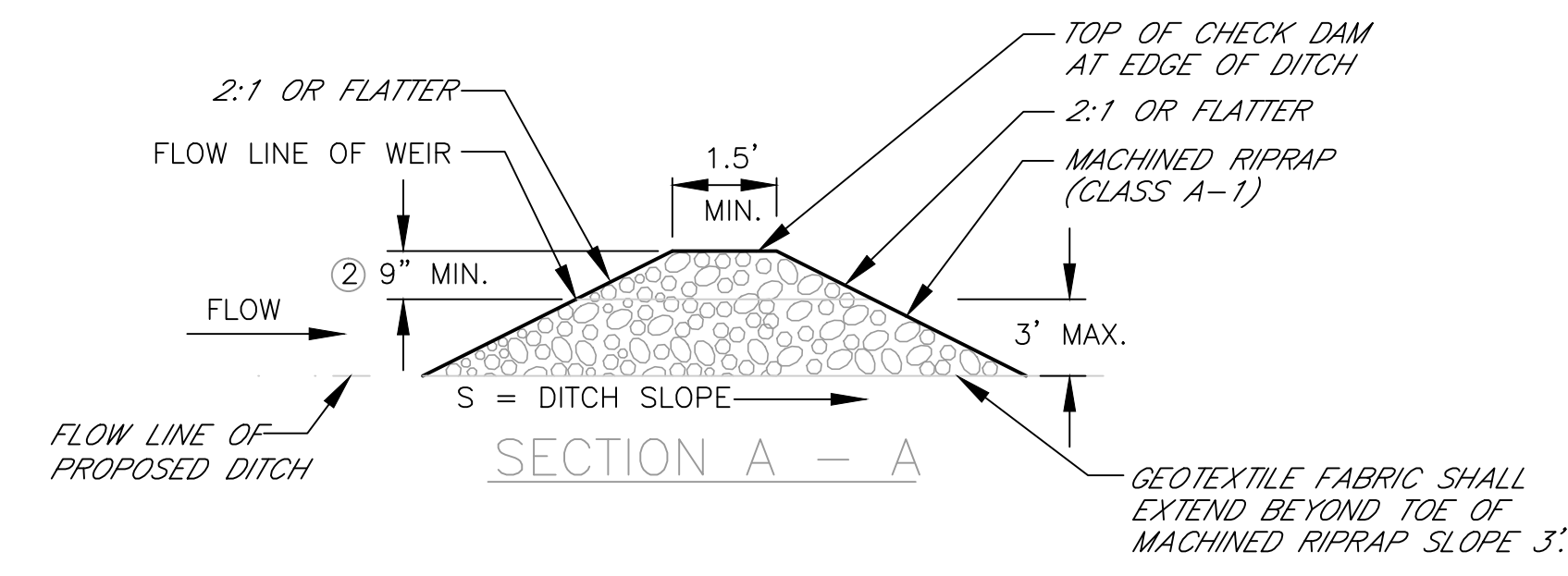


DATE: 03/16/2016
DESIGNED BY: CRC
SUPERVISED BY: MJP
CHECKED BY: CAC

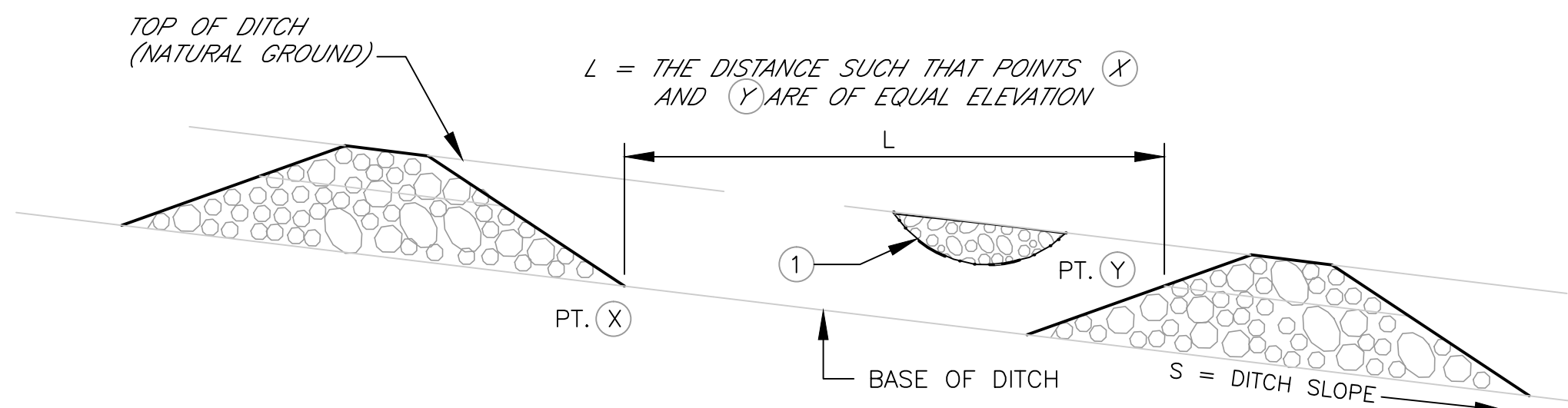
EPSC - POST

SHEET NO: C3.10

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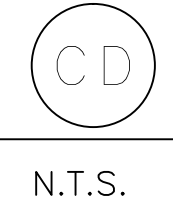


DETAIL FOR SPACING BETWEEN CHECK DAMS

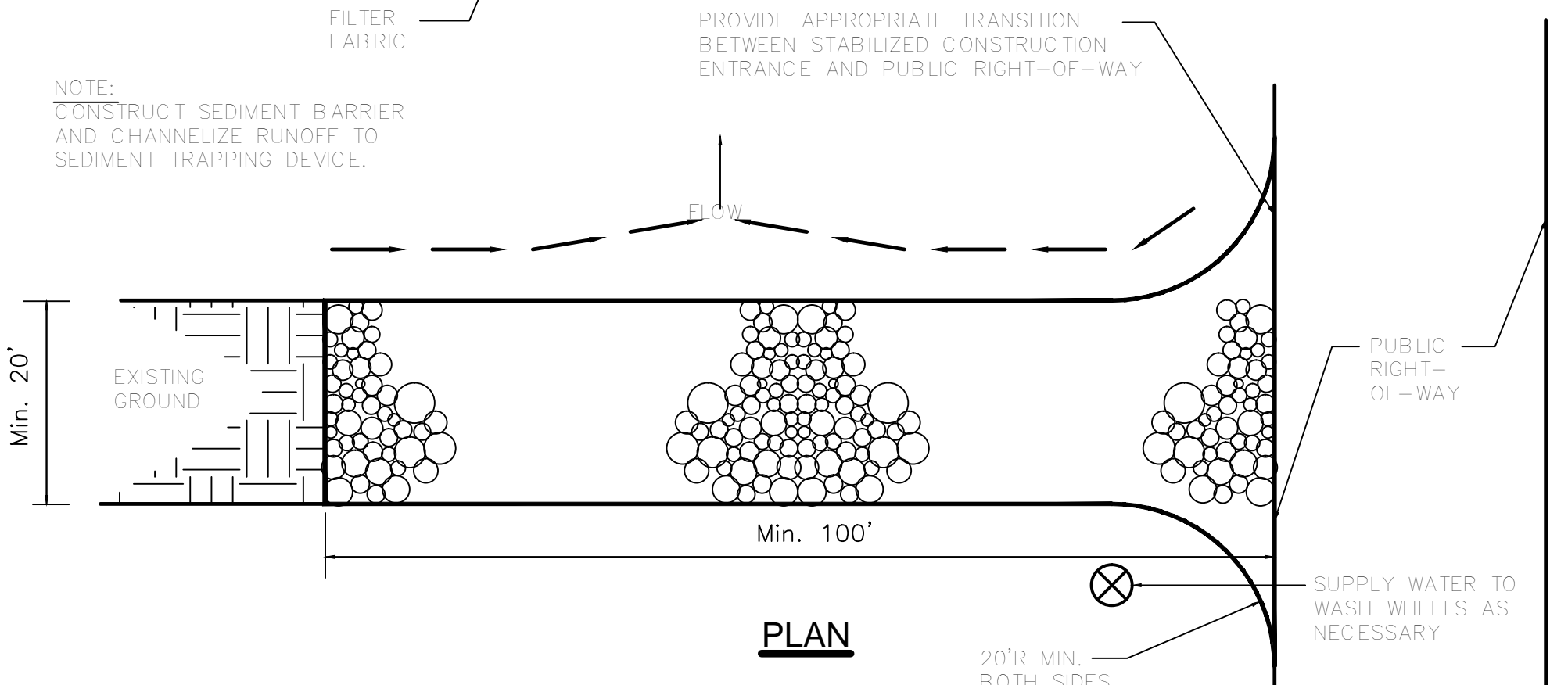
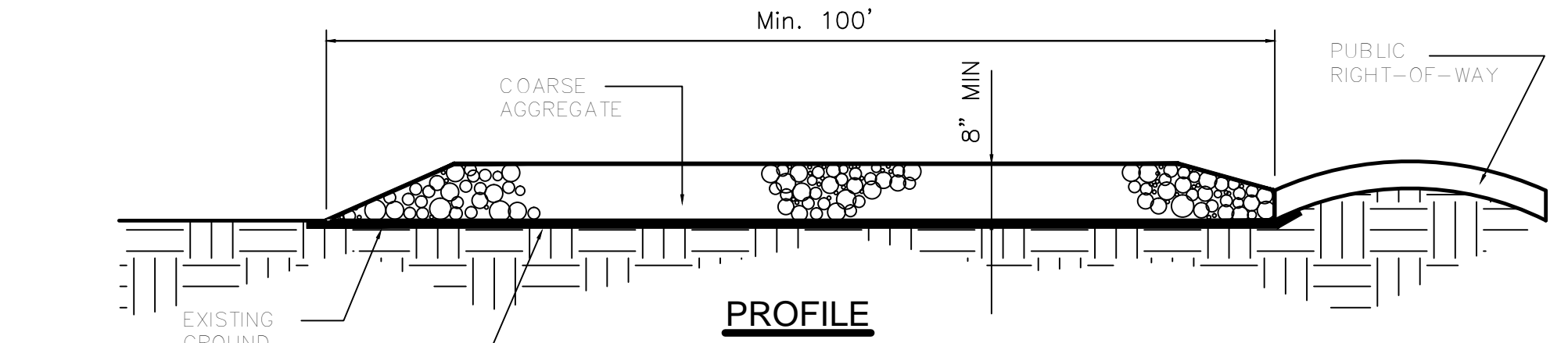


- NOTES:
- 1 FILL LOW AREAS ALONG TOP OF BANK TO PREVENT BACKWATER FROM EXITING DITCH.
 - 2 WEIR FLOW DEPTH BASED UPON 2yr/24hr STORM EVENT OR 5yr/24hr STORM EVENT.

CHECK DAM - RIP-RAP



N.T.S.



CONSTRUCTION SPECIFICATIONS

STONE SIZE - USE MSHA SIZE NO. 2 (2" to 3") OR AASHTO DESIGNATION M43, SIZE NO. 2 (2 1/2" TO 1 1/2"). USE CRUSHED STONE.

LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 100 FEET.

THICKNESS - NOT LESS THAN SIX (6) INCHES.

WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS (20' MINIMUM).

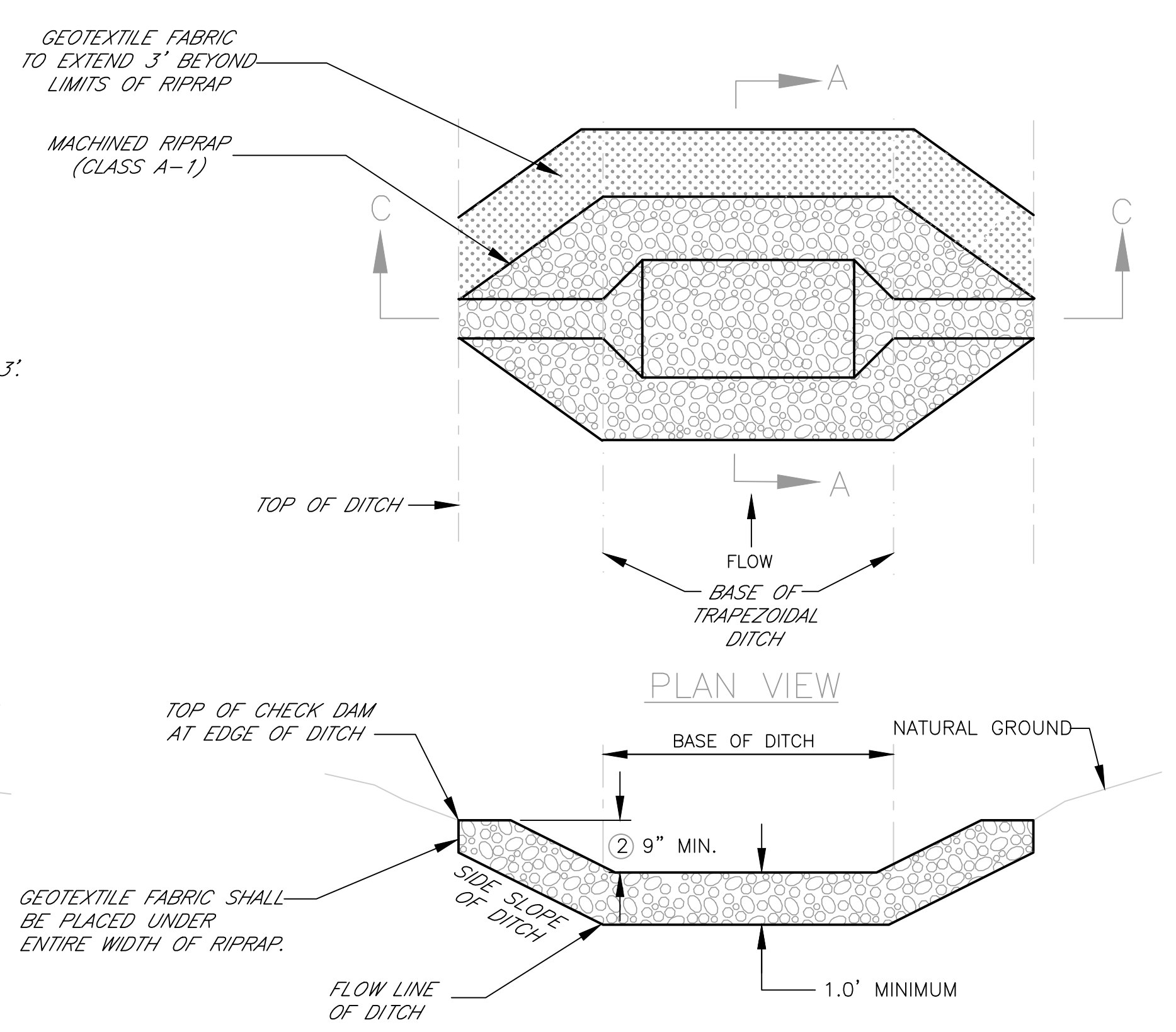
WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.

MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-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, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

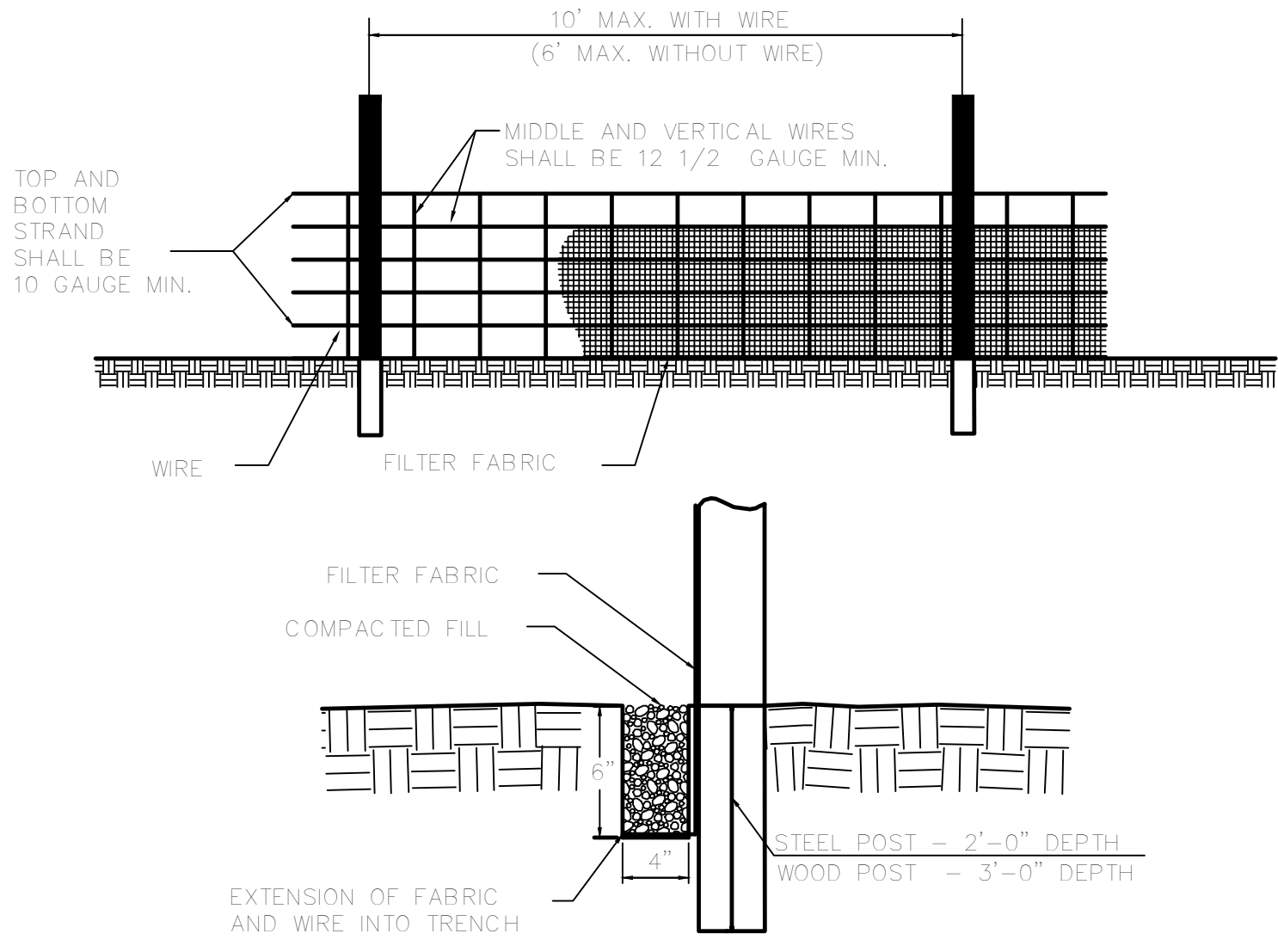
STABILIZED CONSTRUCTION ENTRANCE



N.T.S.



DETAIL FOR TRAPEZOIDAL DITCH SECTION C - C

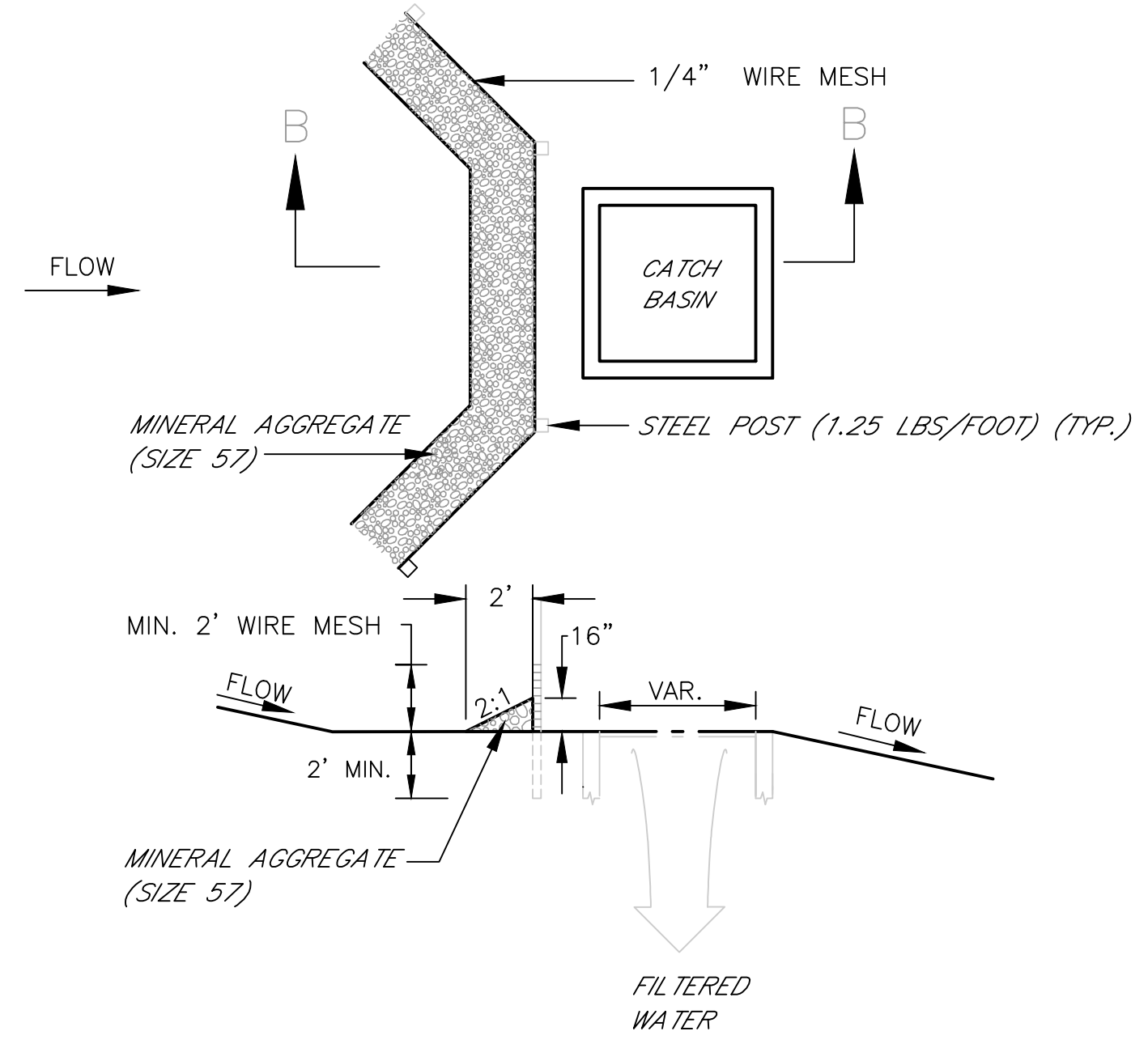


- NOTES:
1. WIRE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
 2. FILTER FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED ADEQUATELY TO THE WIRE.
 3. STEEL POST SHALL BE 5'-0" IN HEIGHT AND BE A T-SHAPE WITH A MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT, WITH SUFFICIENT HOLES AND HOOKS FOR FASTENERS.
 4. WOOD POST SHALL BE 6'-0" IN HEIGHT AND 3" IN DIAMETER.

SILT FENCE



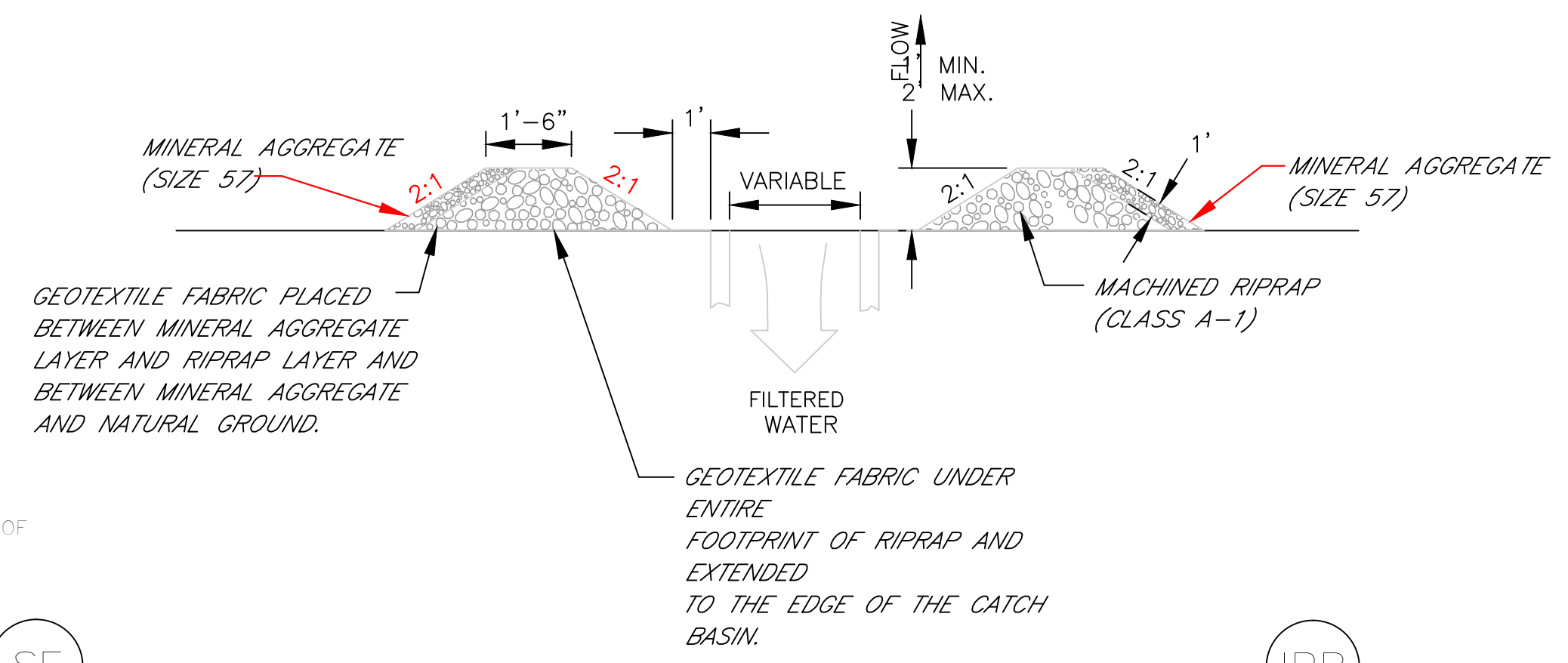
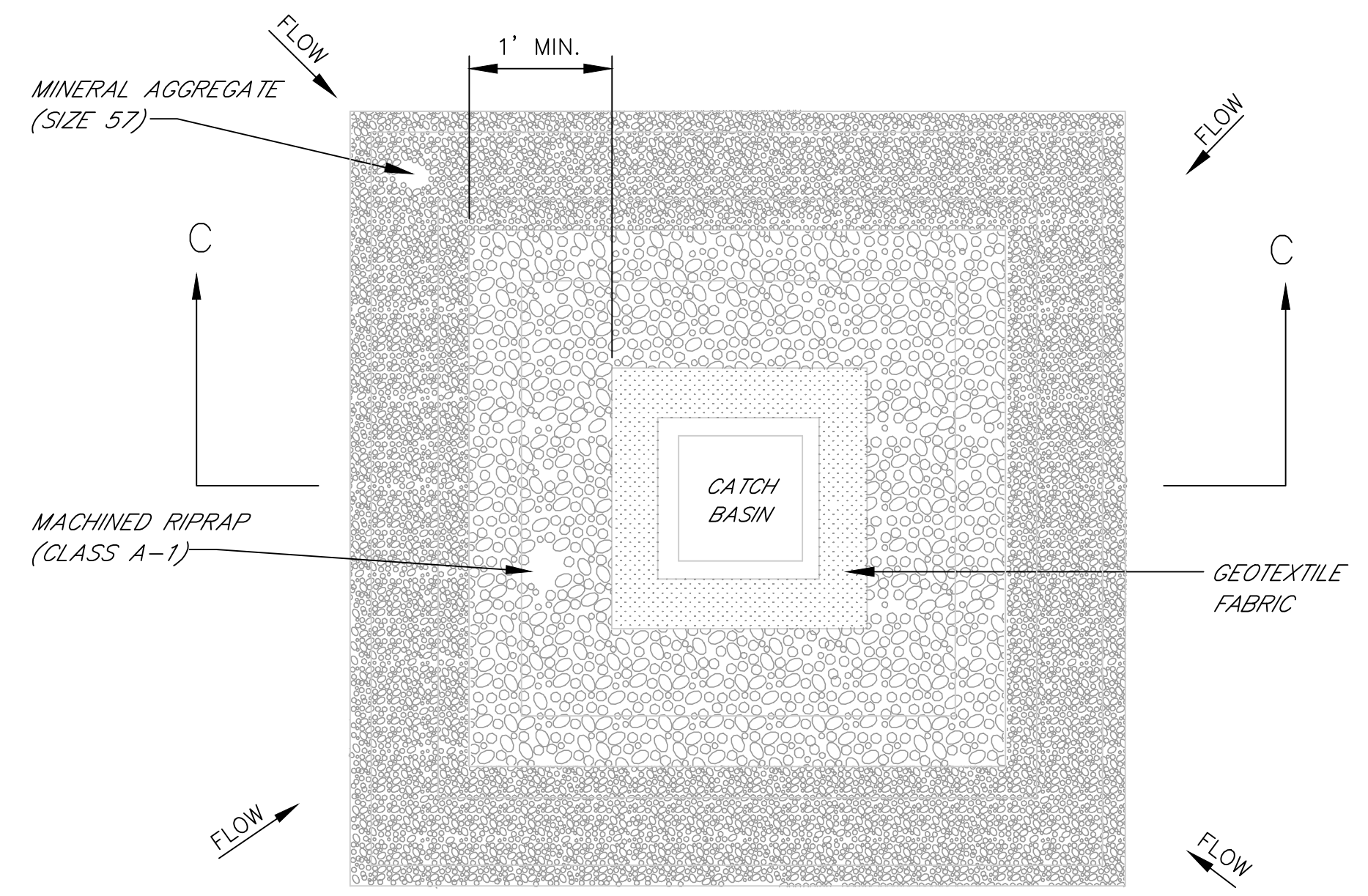
N.T.S.



INLET PROTECTION - ROCK RING



N.T.S.



INLET PROTECTION - ROCK RING



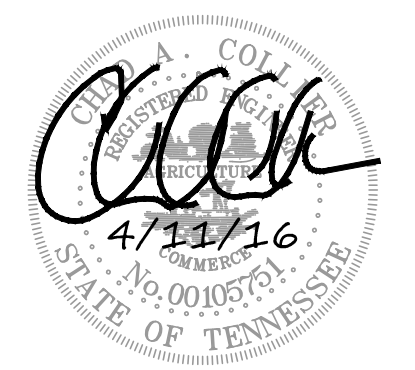
N.T.S.

NO.	DATE	BY	DESCRIPTION

COLLIER ENGINEERING CO., INC.
CONSULTING & DESIGN & CONSTRUCTION

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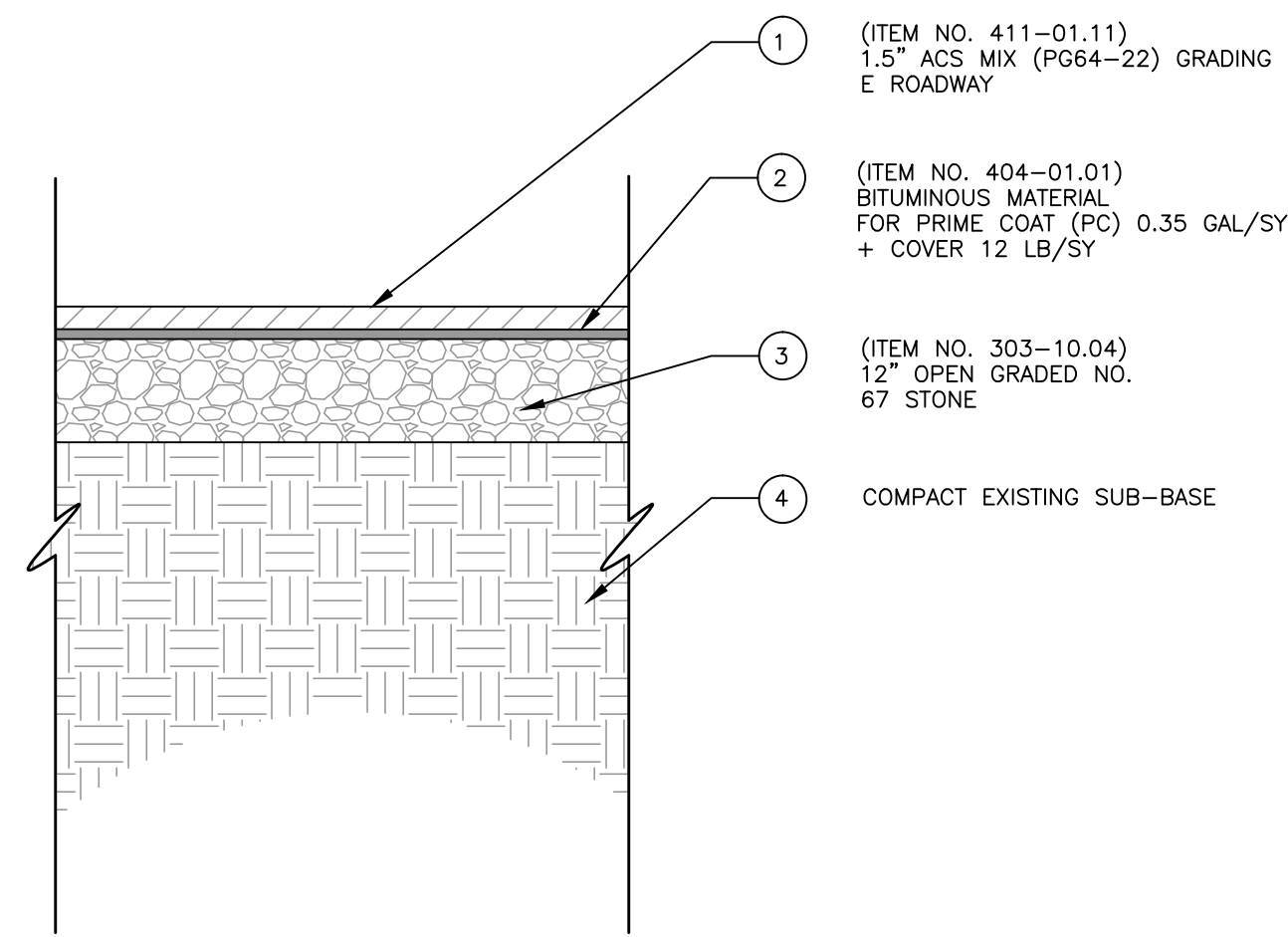
ADA PARKING LOT ADDITION
AGRICULTURE EXPOSITION PARK
TAX MAP: 117, PARCEL: 27.00
WILLIAMSON COUNTY, TENNESSEE



DATE: 03/16/2016
DESIGNED BY: CRC
SUPERVISED BY: MJP
CHECKED BY: CAC

EPSC DETAILS

SHEET NO: C3.20



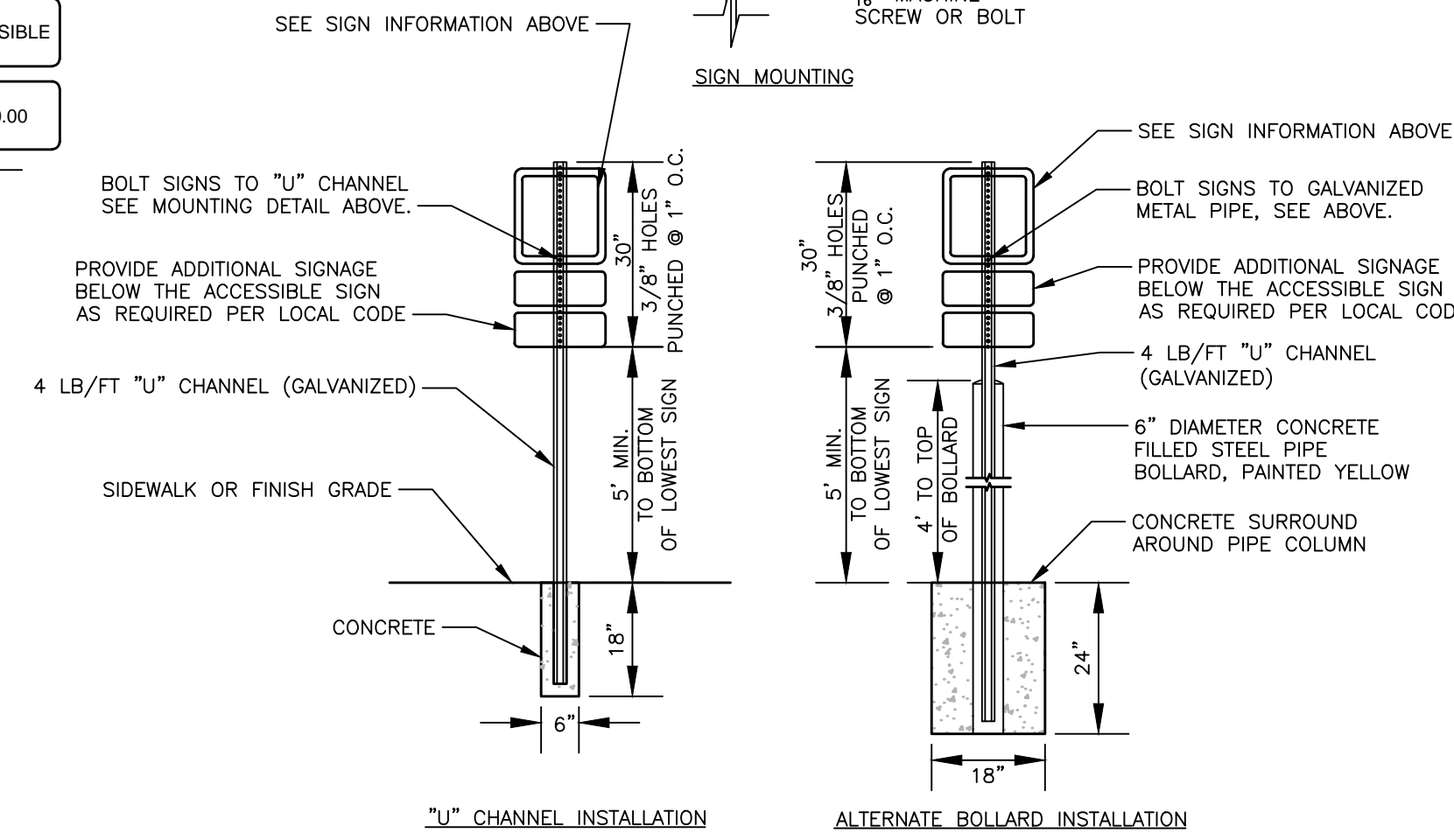
* ALL CONSTRUCTION SHALL BE PER WILLIAMSON COUNTY HWY DEPT STANDARD SPECIFICATIONS AND THE MOST RECENT EDITION OF THE STANDARD SPECIFICATIONS OF THE TN DEPT. OF TRANSPORTATION.

C-0.00 PARKING LOT TYPICAL SECTION NTS

INTERNATIONAL SYMBOL OF ACCESSIBILITY. SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND OR AS REQUIRED BY LOCAL CODE.

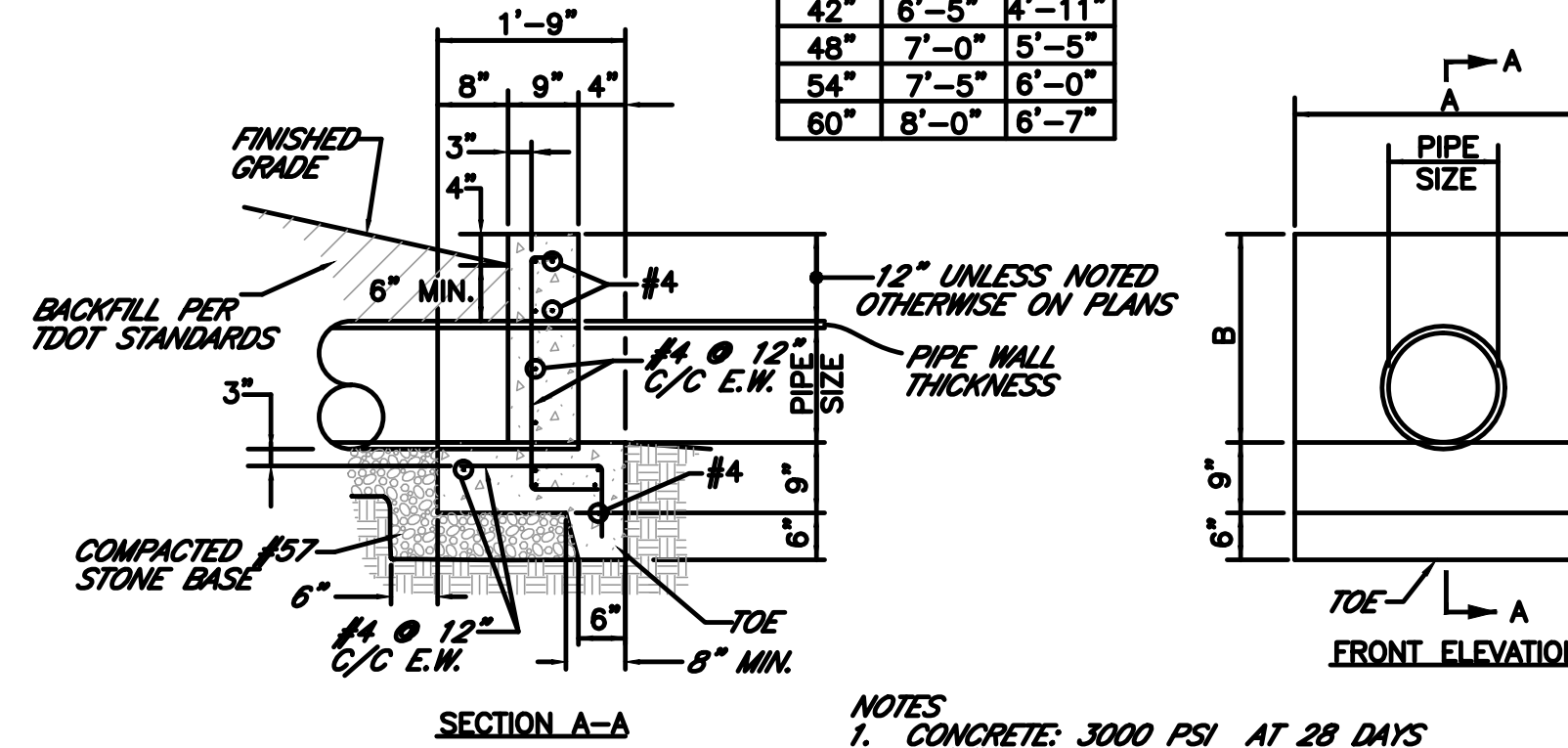
SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE." SIGNS SHALL BE 5' MINIMUM ABOVE GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN OR AS REQUIRED BY LOCAL CODE.

SIGN TEXT: UNAUTHORIZED PARKING FINE. SIGN SHALL BE 5' MINIMUM ABOVE GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN OR AS REQUIRED PER LOCAL CODE.



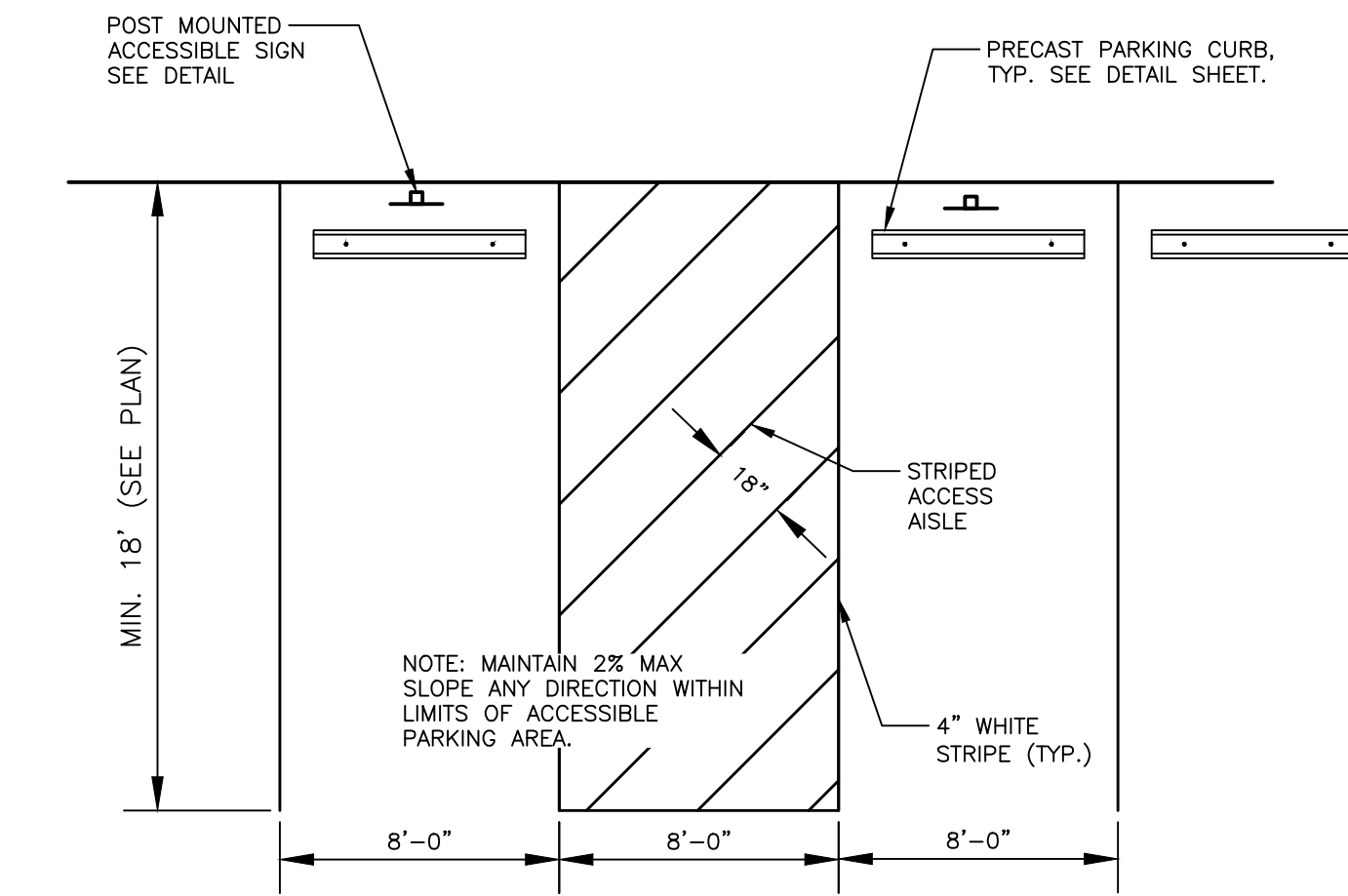
C-0.00 ACCESSIBLE PARKING SIGNS NTS

PIPE SIZES	A	B
15"	3'-8"	2'-6"
18"	3'-11"	2'-9"
21"	4'-3"	3'-0"
24"	4'-6"	3'-3"
30"	5'-3"	3'-10"
36"	5'-10"	4'-4"
42"	6'-5"	4'-11"
48"	7'-0"	5'-5"
54"	7'-5"	6'-0"
60"	8'-0"	6'-7"

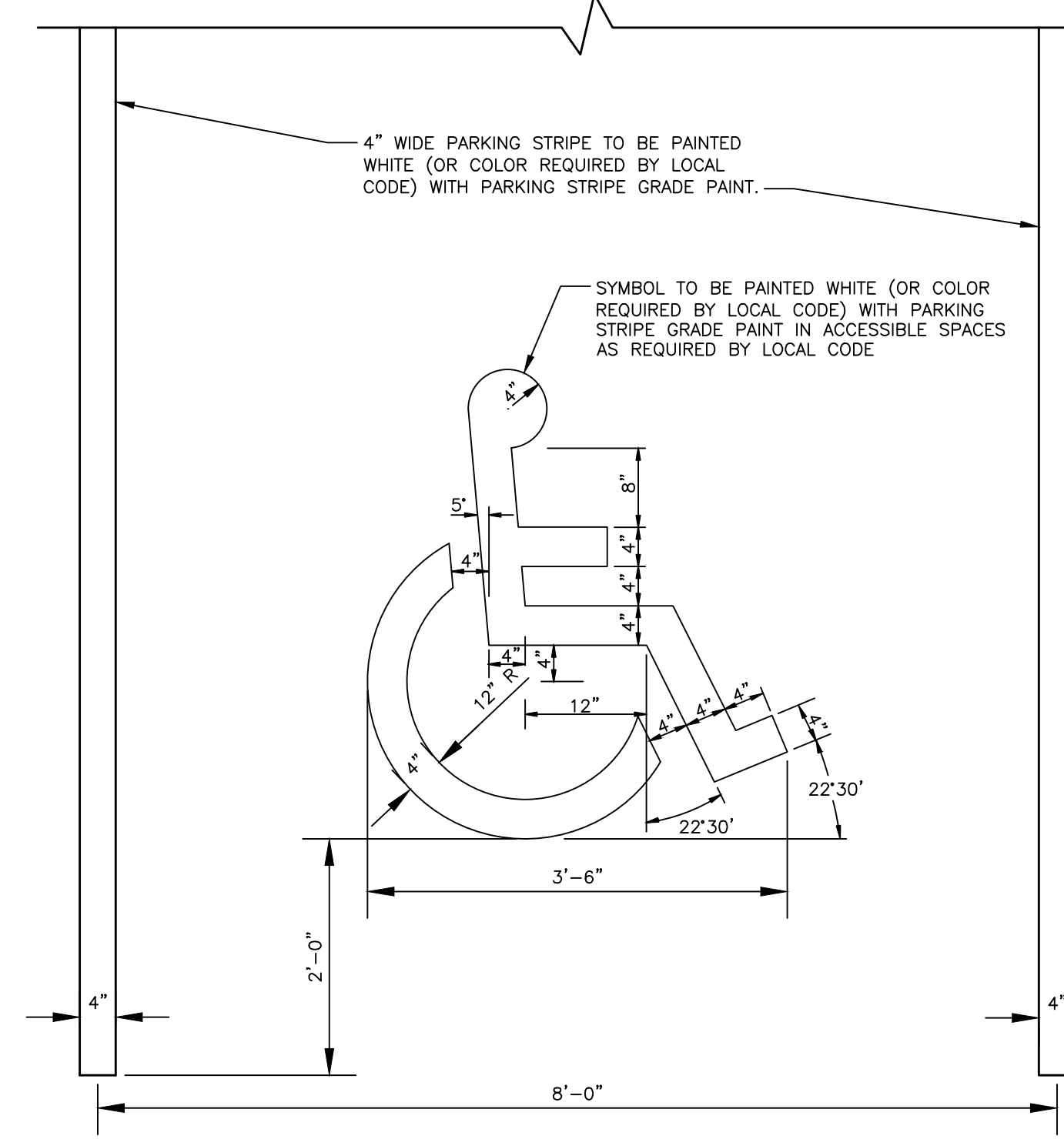


NOTES:
 1. CONCRETE: 3000 PSI AT 28 DAYS
 2. 3/4" CHAMFER ON ALL EXPOSED EDGES.
 3. SUBGRADE TO BE COMPACTED TO 98% OF MAXIMUM PER ASTM D698.
 4. MINIMUM COVER OVER ALL STEEL REINFORCEMENT SHALL BE 3".

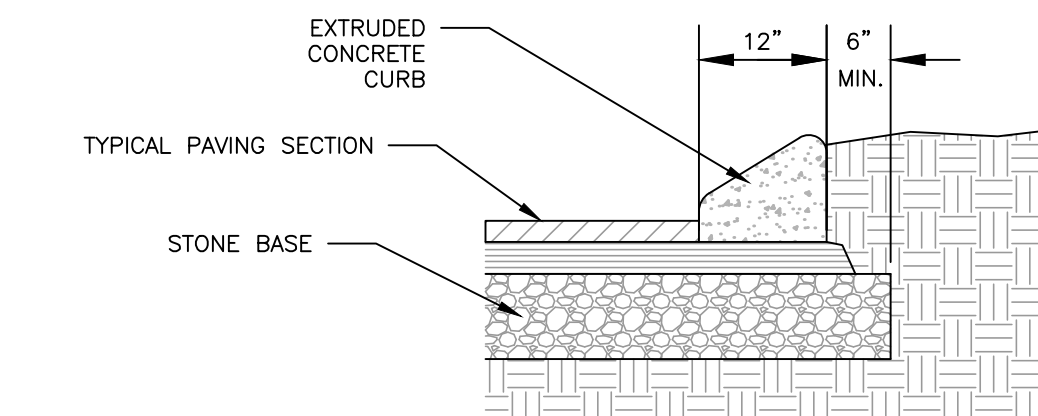
STRAIGHT HEADWALL FOR CIRCULAR PIPE (N.T.S.)



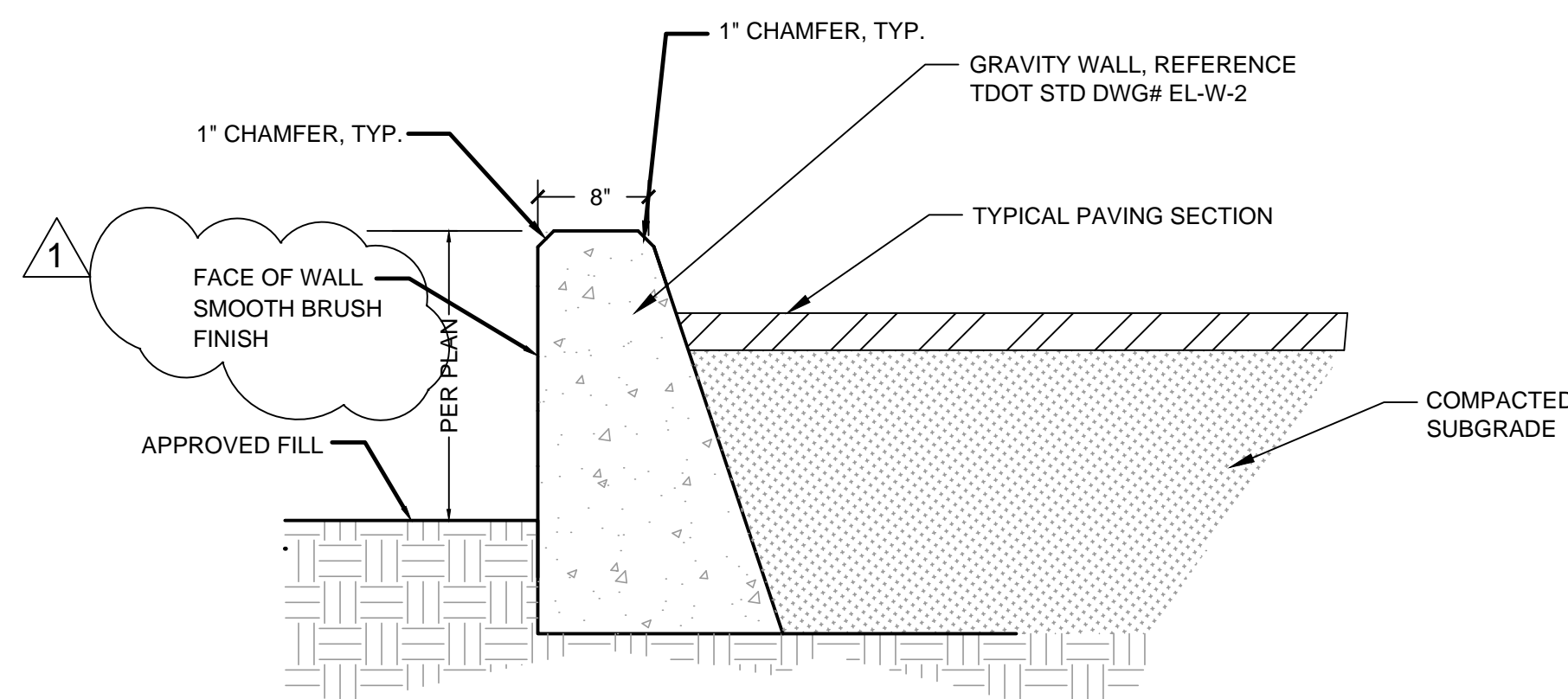
C-0.00 ACCESSIBLE PARKING LAYOUT (90°) NTS



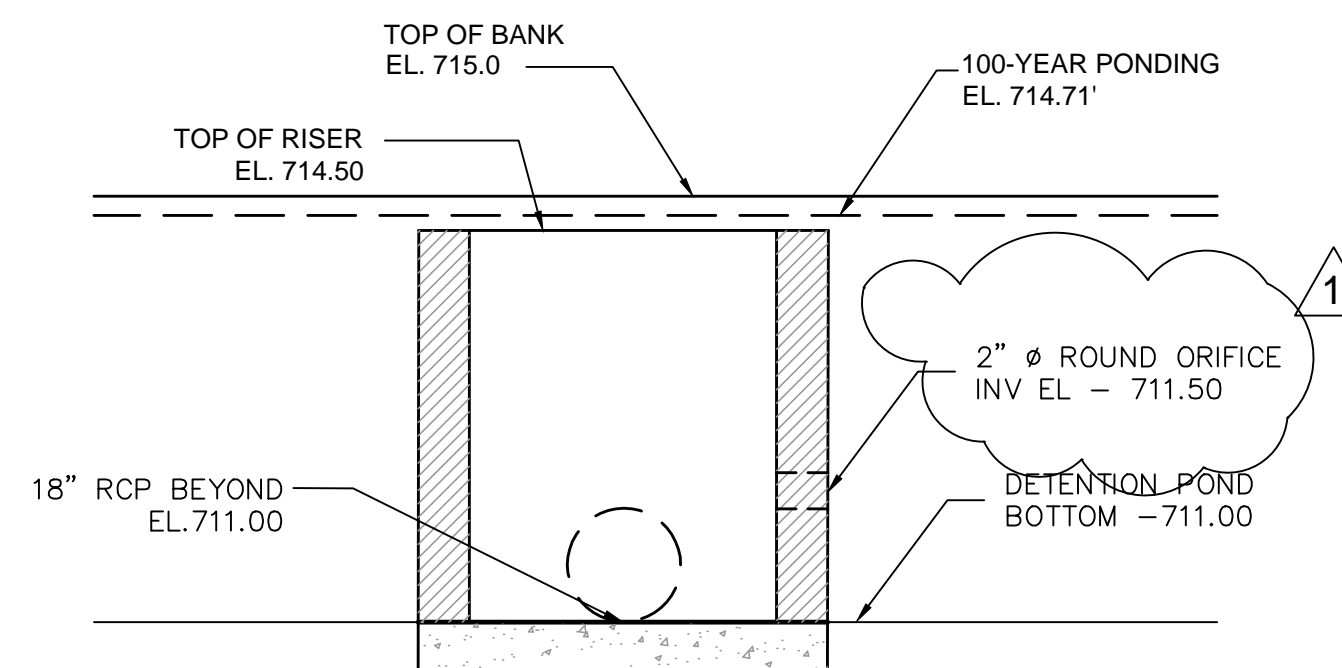
C-0.00 ACCESSIBLE PARKING SYMBOL NTS



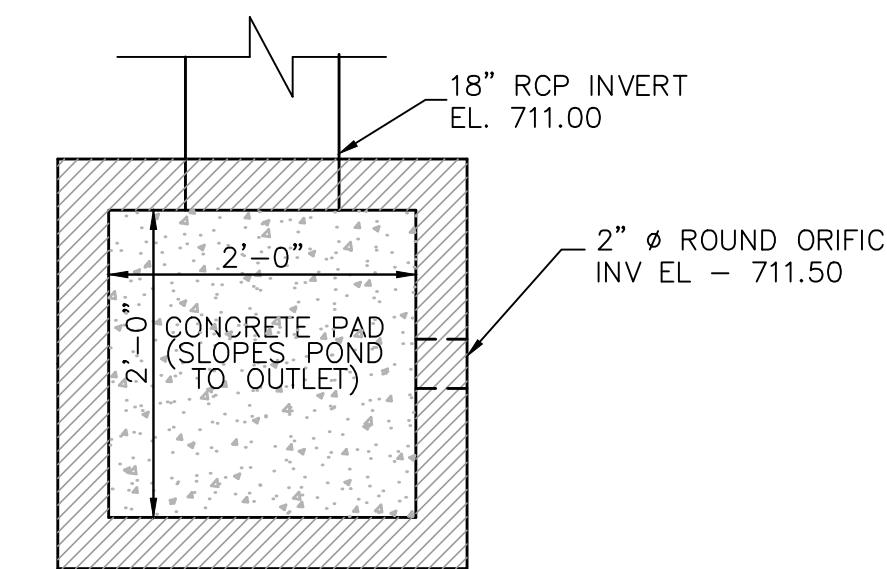
C-0.00 EXTRUDED CONCRETE CURB SECTION NTS



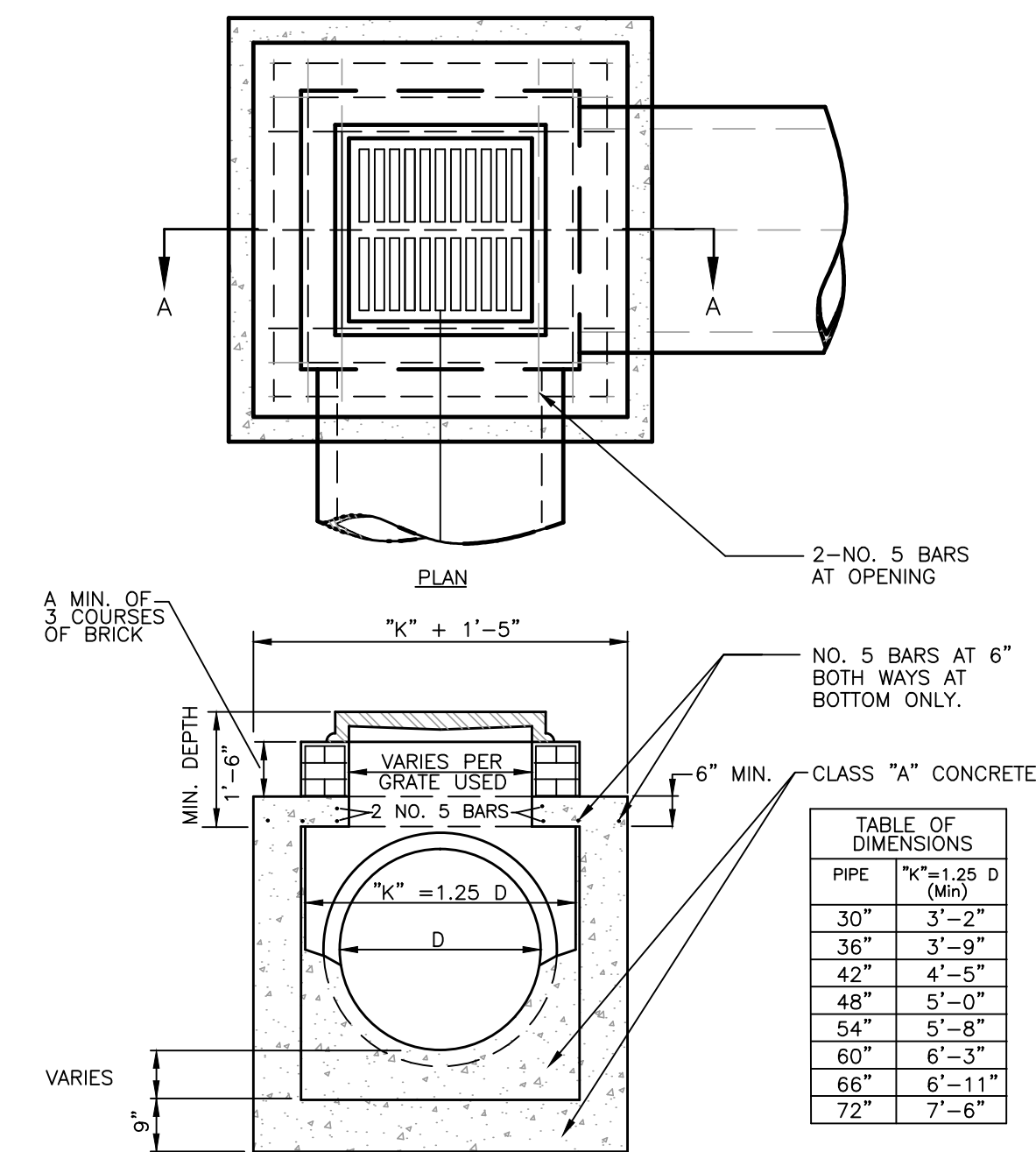
(N.T.S.) GRAVITY WALL (N.T.S.)



ELEVATION VIEW DETENTION POND OUTLET STRUCTURE DETAIL (N.T.S.)



PLAN VIEW



COMBINATION MANHOLE/INLET (N.T.S.)

PIPE	K" = 1.25 D (Min)
30"	3'-2"
36"	3'-8"
42"	4'-5"
48"	5'-0"
54"	5'-8"
60"	6'-3"
66"	6'-11"
72"	7'-6"

NOTE: FRAME AND GRATE SHOWN ARE FOR FLUSH MOUNTED INLET.

NO.	DATE	BY	DESCRIPTION
1	04/11/16	CRC	COF COMMENTS

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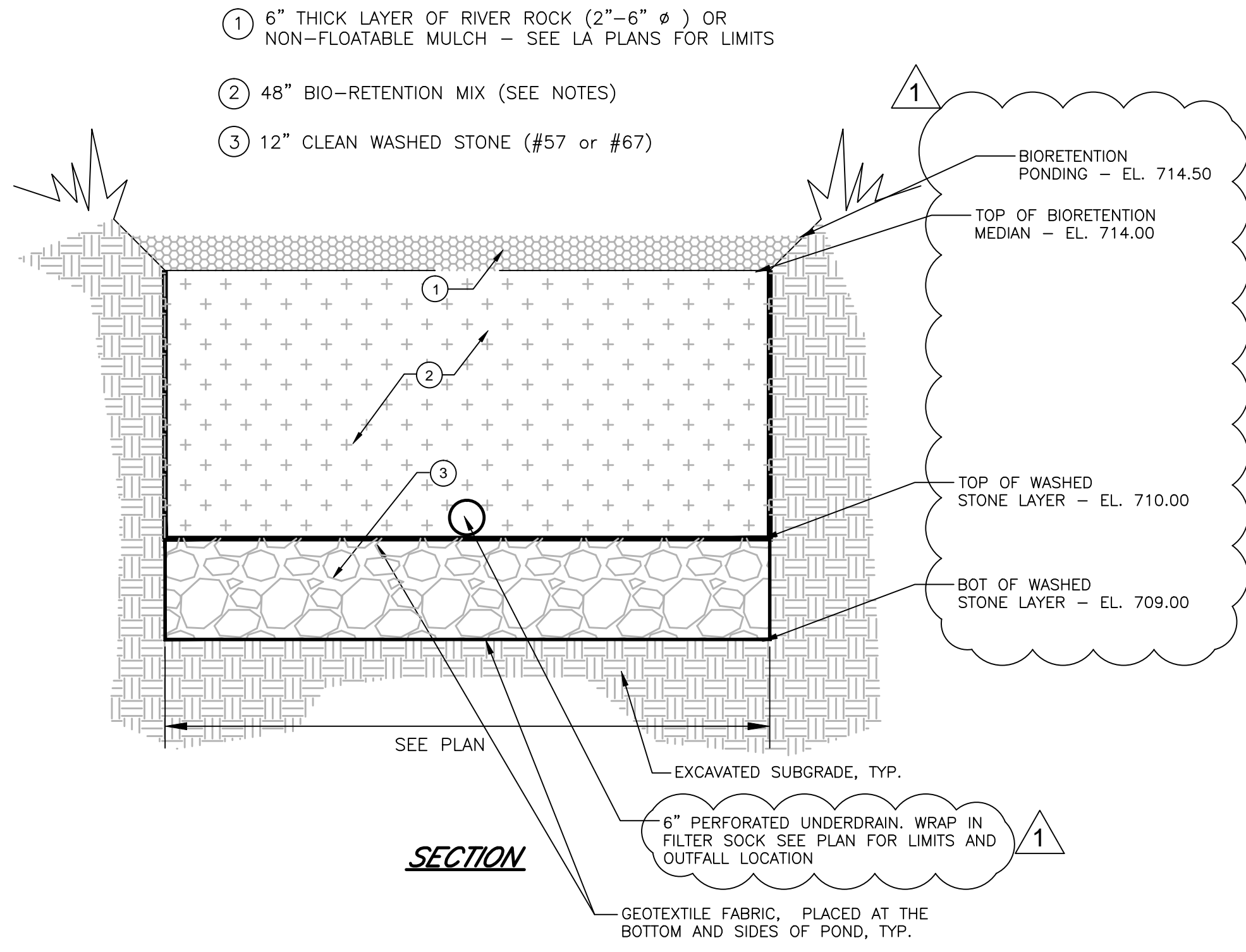
ADA PARKING LOT ADDITION
 AGRICULTURE EXPOSITION PARK
 TAX MAP: 117, PARCEL: 27.00
 WILLIAMSON COUNTY, TENNESSEE



DATE: 03/16/2016
 DESIGNED BY: CRC
 SUPERVISED BY: MJP
 CHECKED BY: CAC

STANDARD DETAILS

SHEET NO: C5.01



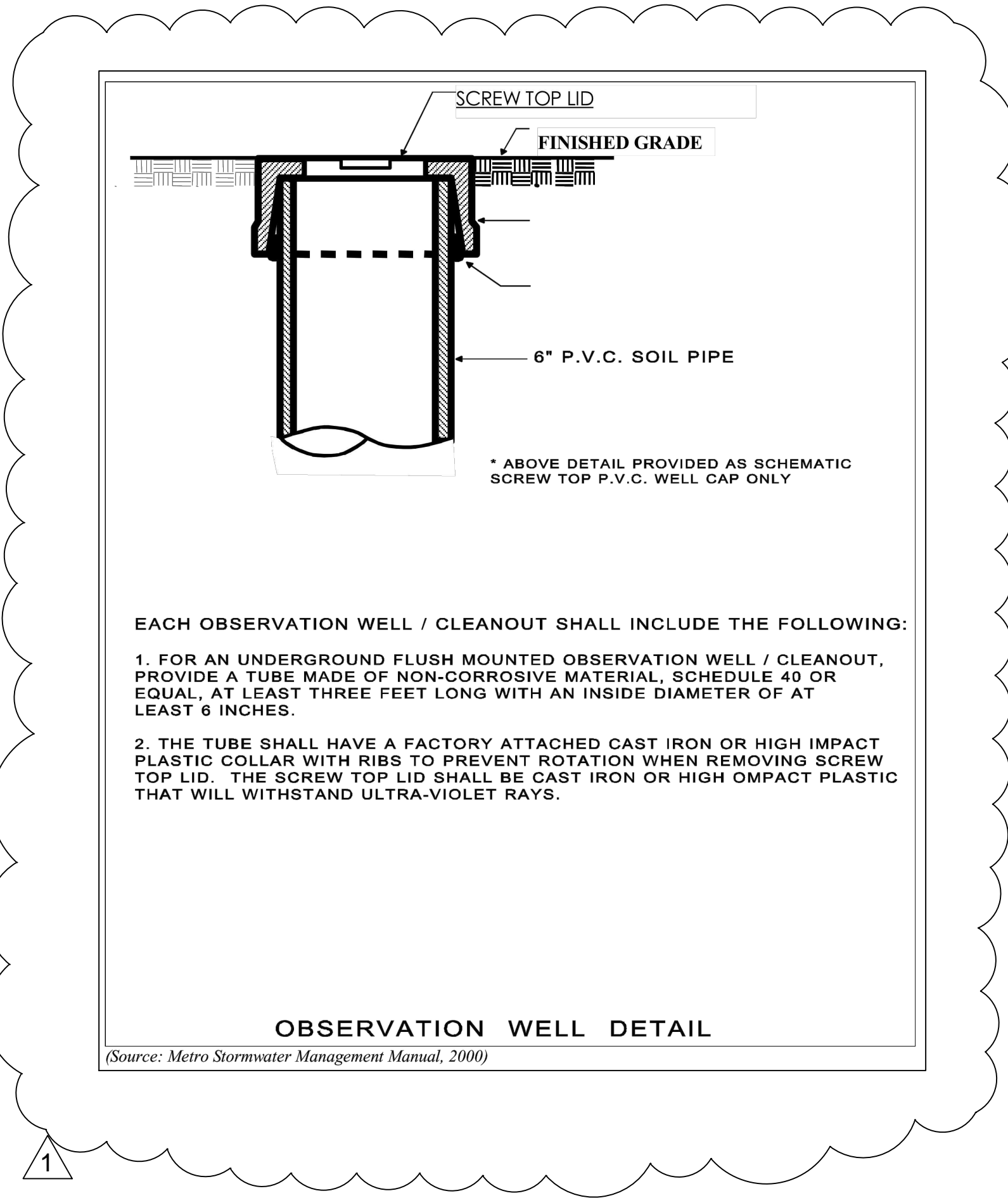
NOTES:

- REFER TO LANDSCAPE PLANS, PLANT LIST, AND SPECIFICATIONS FOR VEGETATIVE MATERIALS, BIORETENTION ESTABLISHMENT, AND APPLICABLE MAINTENANCE REQUIREMENTS.
- THE CONTRACTOR, ENGINEER, OR OWNER'S REPRESENTATIVE SHALL NOTIFY THE CITY OF FRANKLIN FOR AN INSPECTOR'S REVIEW AT LEAST 24 HOURS PRIOR TO THE INSTALLATION OF THE PLANTING OF THE SOIL FILTER BED. AT THE COMPLETION OF INSTALLATION, THE ABOVE REFERENCED INSPECTOR WILL COLLECT ONE SAMPLE PER BIORETENTION BED FOR ANALYSIS AND CONFIRMATION OF THE SOIL CHARACTERISTICS AS DEFINED BY GIP-01, FILTER MEDIA AND SURFACE COVER, SECTION 6.6, PAGE 18.
- REFER TO CIVIL PLANS FOR BIORETENTION LOCATIONS AND GRADING, WATERSHED SIZES, INLET STRUCTURE LOCATIONS AND ELEVATIONS, AND EROSION CONTROL MEASURES.
- THE BIO-RETENTION MEDIA COMPOSITION SHOULD CONSIST OF THE FOLLOWING:
 MAXIMUM 60% SAND
 LESS THAN 40% SILT
 5%-10% ORGANIC MATTER
 LESS THAN 20% CLAY
 *REFERENCE CITY OF FRANKLIN STORM WATER BMP MANUAL SECTION GIP-01

BIO-RETENTION DETAIL
(N.T.S.)

CITY OF FRANKLIN STD NOTE
BIORETENTION CONSTRUCTION SEQUENCING:

- CONTRACTOR TO PROVIDE METHOD OF DIVERTING RUNOFF FLOW AROUND THE CONSTRUCTION OF THE BIORETENTION AREA DURING PERIODS OF RAINFALL TO ENSURE SEDIMENT DOES NOT ENTER BIORETENTION AREA.
- EXCAVATE BIORETENTION AREA. EXCAVATORS OR BACKHOES SHOULD WORK FROM THE SIDES TO EXCAVATE THE BIORETENTION AREA TO THE DESIGN DEPTH AND DIMENSIONS. EXCAVATING EQUIPMENT SHOULD HAVE SCOOPS WITH ADEQUATE REACH SO THEY DO NOT SIT INSIDE THE FOOTPRINT OF THE BIORETENTION AREA.
- SCARIFY SUBGRADE BY RIPPING THE BOTTOM SOILS TO A DEPTH OF 12 INCHES PRIOR TO STONE REPLACEMENT.
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- INSTALL WASHED STONE LAYER. INSTALL UNDERDRAIN PIPES AND CONNECT TO THE OUTLET STRUCTURE. INSTALL ADDITIONAL STONE ON THE UNDERDRAIN PIPES AS PER THE BIORETENTION SECTION DETAIL. CONTRACTOR TO FLAG THE UNDERDRAIN LOCATIONS (3 FT EACH SIDE) AS THE ADDITIONAL SECTIONS ARE BEING INSTALLED. A SMALL BOBCAT LOADER IS TO BE USED FOR PLACEMENT OF ADDITIONAL SECTIONS AND IS TO AVOID ACCESSING THE AREAS OF THE UNDERDRAIN PIPE INSTALLATION TO PREVENT DAMAGE TO THE PERFORATED PIPE.
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- INSTALL SPECIFIED GROUND COVER IN BOTTOM OF BIORETENTION AREA.
- SOD SLOPES
- CONTRACTOR TO FLAG LIMITS OF BIORETENTION BASIN FOR SURVEY TO LOCATE AND SHOW ON AS-BUILT PLANS.

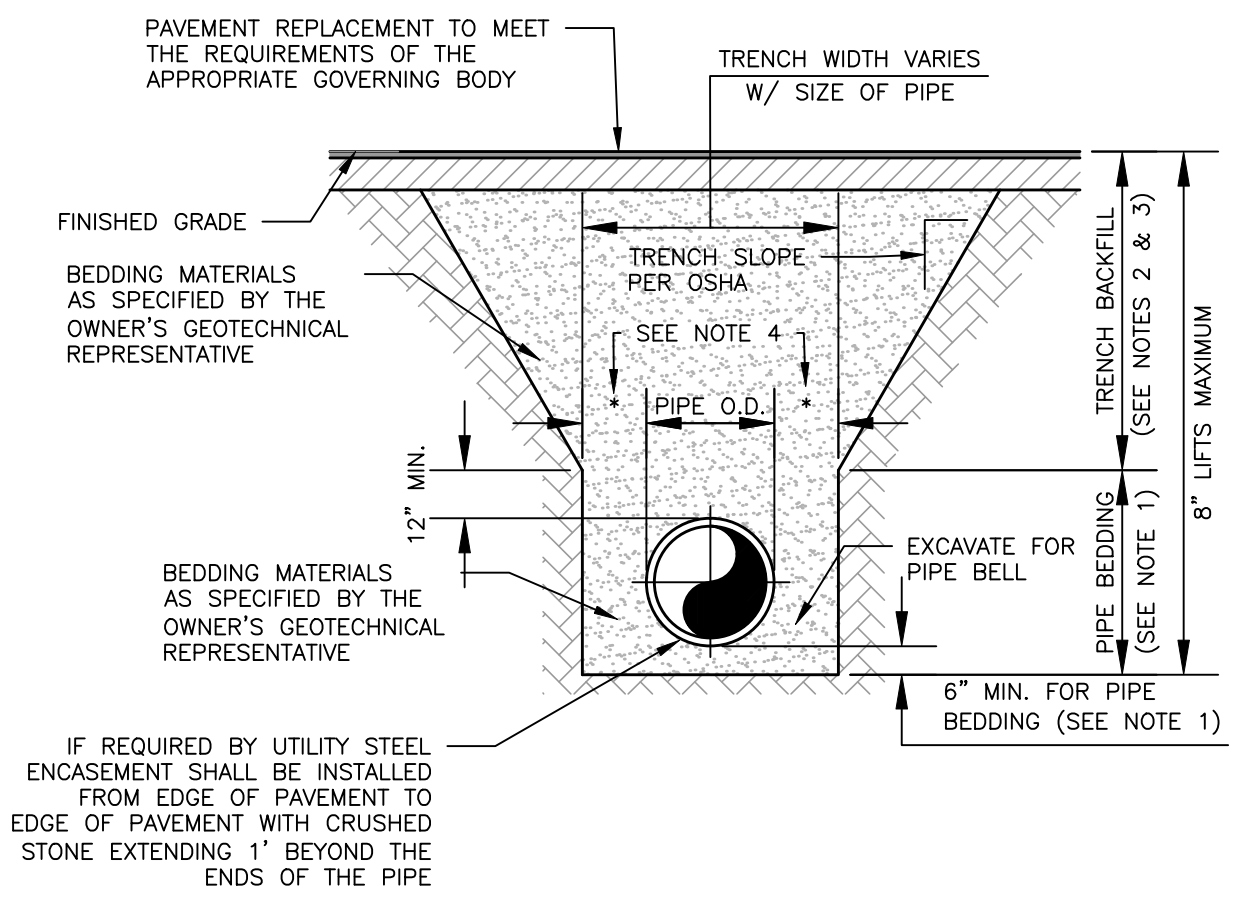


EACH OBSERVATION WELL / CLEANOUT SHALL INCLUDE THE FOLLOWING:

- FOR AN UNDERGROUND FLUSH MOUNTED OBSERVATION WELL / CLEANOUT, PROVIDE A TUBE MADE OF NON-CORROSIVE MATERIAL, SCHEDULE 40 OR EQUAL, AT LEAST THREE FEET LONG WITH AN INSIDE DIAMETER OF AT LEAST 6 INCHES.
- THE TUBE SHALL HAVE A FACTORY ATTACHED CAST IRON OR HIGH IMPACT PLASTIC COLLAR WITH RIBS TO PREVENT ROTATION WHEN REMOVING SCREW TOP LID. THE SCREW TOP LID SHALL BE CAST IRON OR HIGH IMPACT PLASTIC THAT WILL WITHSTAND ULTRA-VIOLET RAYS.

OBSERVATION WELL DETAIL
(Source: Metro Stormwater Management Manual, 2000)

SIEVE ANALYSIS CHART					
CRUSHED STONE A.S.T.M. D-448, GR. 67		SAND		SELECT NATIVE MATERIAL	
NOM. SIZE	% PASSING	NOM. SIZE	% PASSING	NOM. SIZE	% PASSING
1"	100	1"	100	1"	100
3/4"	90-100	#4	60-100	#4	40-100
3/8"	20-55	#200	0-5	#200	0-50
#4	0-10	MAX. P.I. = 5			
#8	0-5	MAX. L.L. = 30		MAX. P.I. = 12	



BACKFILL AND BEDDING IN PAVED AREAS
NTS

REVISIONS	
NO.	DESCRIPTION
1	04/11/16 CRC TDOT REVIEW COMMENTS

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CONSULTING & DESIGN & CONSTRUCTION

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ADA PARKING LOT ADDITION
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TAX MAP: 117, PARCEL: 27.00
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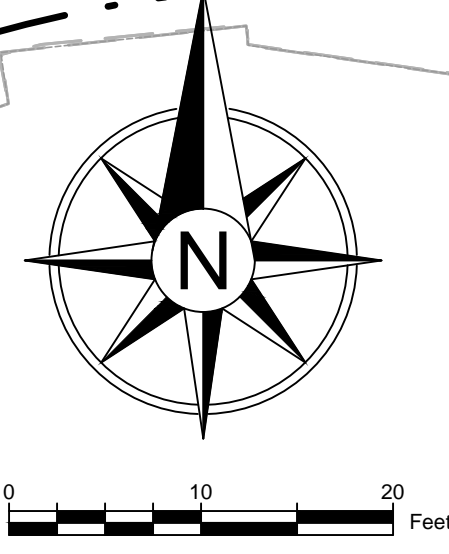
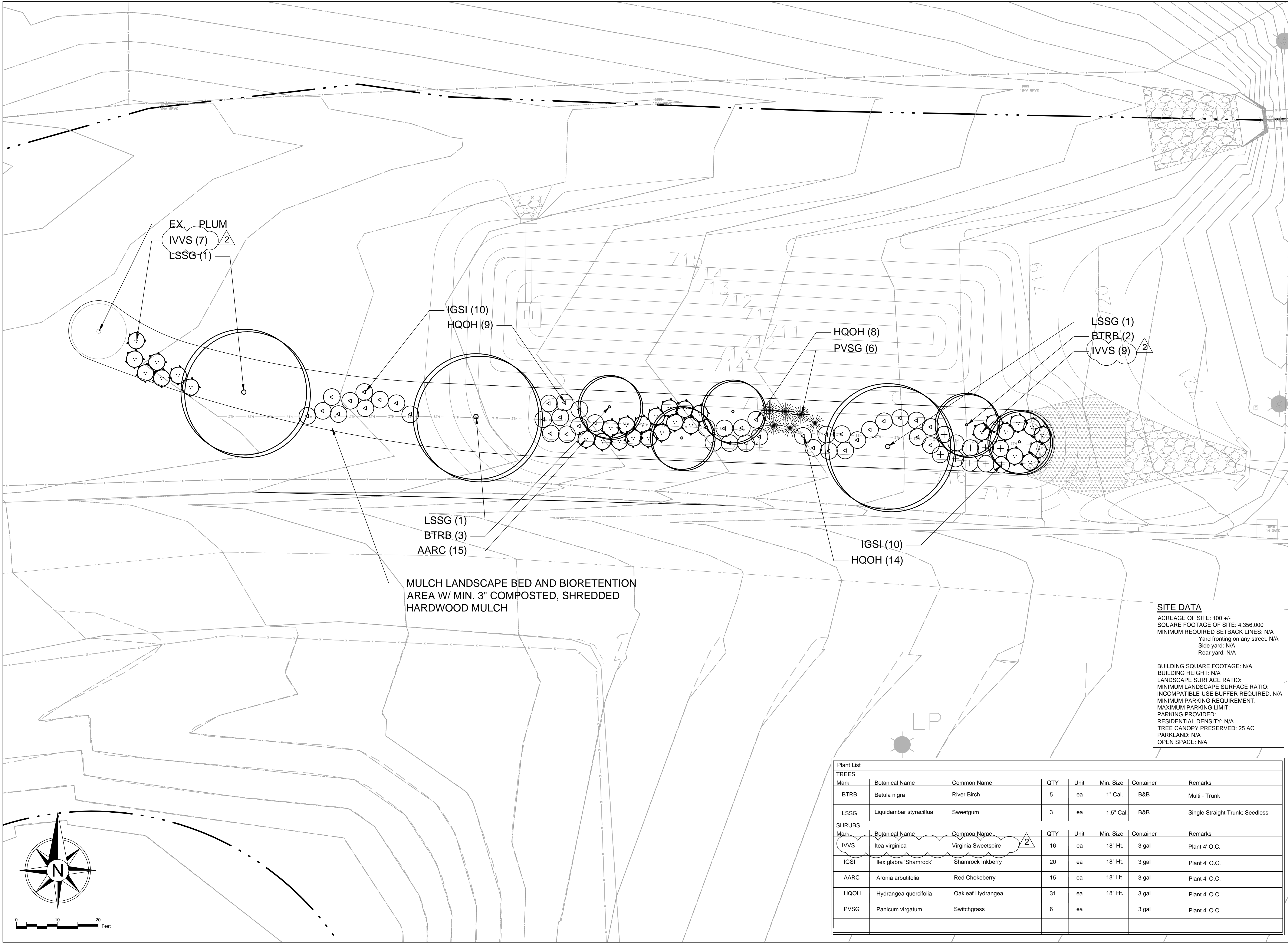
DATE: 03/16/2016
DESIGNED BY: CRC
SUPERVISED BY: MJP
CHECKED BY: CAC

STANDARD DETAILS

SHEET NO: C5.02

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5/3/2016 6:29:55 PM



SITE DATA
 ACREAGE OF SITE: 100 +/-
 SQUARE FOOTAGE OF SITE: 4,356,000
 MINIMUM REQUIRED SETBACK LINES: N/A
 Yard fronting on any street: N/A
 Side yard: N/A
 Rear yard: N/A
 BUILDING SQUARE FOOTAGE: N/A
 BUILDING HEIGHT: N/A
 LANDSCAPE SURFACE RATIO:
 MINIMUM LANDSCAPE SURFACE RATIO:
 INCOMPATIBLE-USE BUFFER REQUIRED: N/A
 MINIMUM PARKING REQUIREMENT:
 MAXIMUM PARKING LIMIT:
 PARKING PROVIDED:
 RESIDENTIAL DENSITY: N/A
 TREE CANOPY PRESERVED: 25 AC
 PARKLAND: N/A
 OPEN SPACE: N/A

Plant List							
TREES							
Mark	Botanical Name	Common Name	QTY	Unit	Min. Size	Container	Remarks
BTRB	Betula nigra	River Birch	5	ea	1" Cal.	B&B	Multi - Trunk
LSSG	Liquidambar styraciflua	Sweetgum	3	ea	1.5" Cal.	B&B	Single Straight Trunk; Seedless
SHRUBS							
Mark	Botanical Name	Common Name	QTY	Unit	Min. Size	Container	Remarks
IVVS	Itea virginica	Virginia Sweetspire	16	ea	18" Ht.	3 gal	Plant 4' O.C.
IGSI	Ilex glabra 'Shamrock'	Shamrock Inkberry	20	ea	18" Ht.	3 gal	Plant 4' O.C.
AARC	Aronia arbutifolia	Red Chokeberry	15	ea	18" Ht.	3 gal	Plant 4' O.C.
HQOH	Hydrangea quercifolia	Oakleaf Hydrangea	31	ea	18" Ht.	3 gal	Plant 4' O.C.
PVSG	Panicum virgatum	Switchgrass	6	ea		3 gal	Plant 4' O.C.

NO.	DATE	BY	DESCRIPTION
2	05/03/16	CRC	COF COMMENTS

COLLIER
 ENGINEERING CO., INC.
 CONSULTING & DESIGN & CONSTRUCTION

5560 FRANKLIN PIKE CIRCLE, BRENTWOOD, TN 37027
 PHONE: (615) 331-1441 FAX: (615) 331-1050

ADA PARKING LOT ADDITION
AGRICULTURE EXPOSITION PARK
TAX MAP: 117, PARCEL: 27.00
WILLIAMSON COUNTY, TENNESSEE

DATE: 03/16/2016
 DESIGNED BY: CRC
 SUPERVISED BY: MJP
 CHECKED BY: CAC

LANDSCAPE PLAN
 SHEET NO: L1.00

