

CITY OF BROOKHAVEN MURPHY CANDLER PARK COMMUNITY GREEN DEKALB COUNTY, GEORGIA

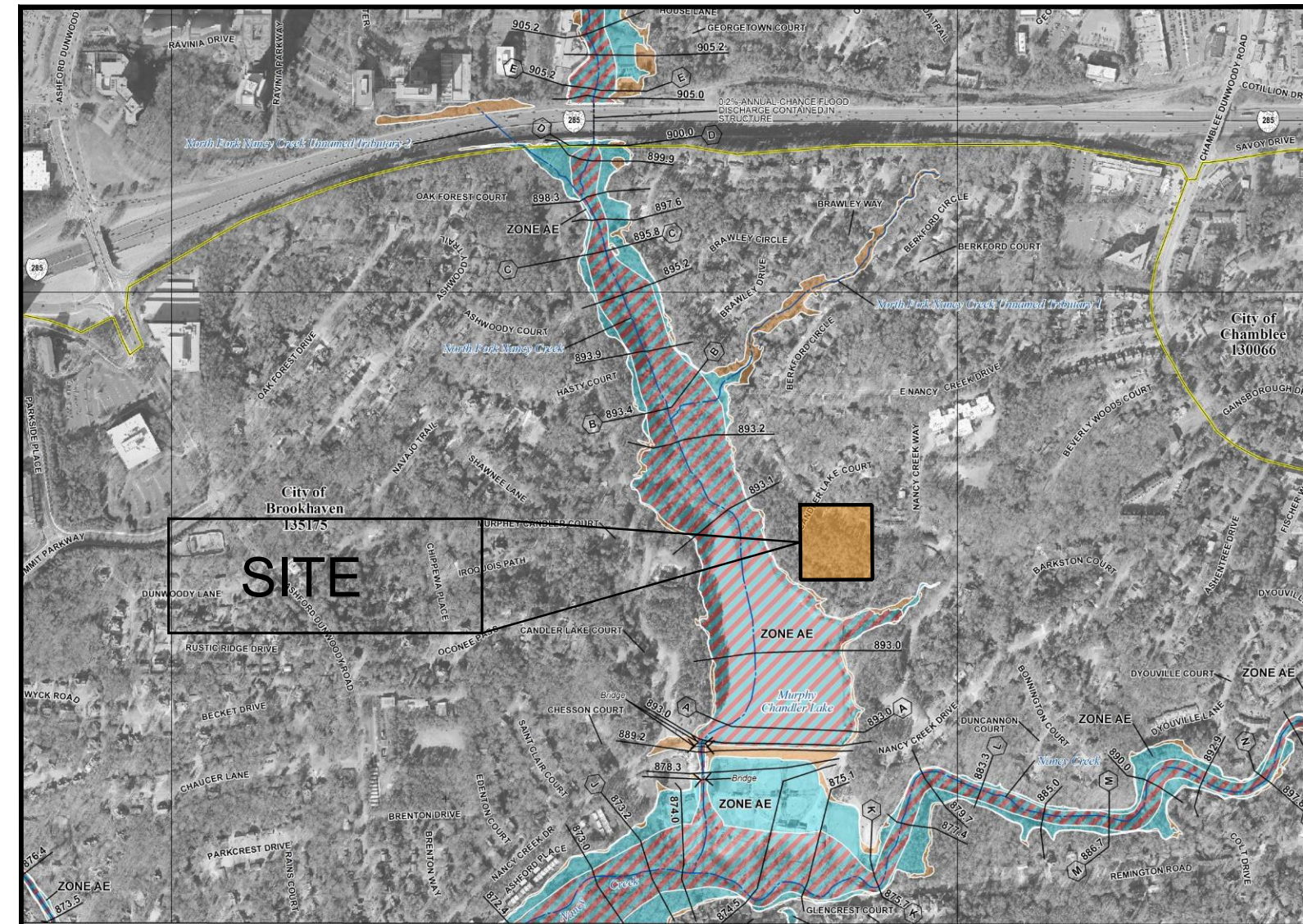
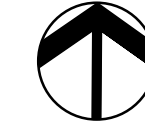
GENERAL NOTES:

- THE EXISTING CONDITIONS SURVEY WAS PREPARED BY TRAVIS PRUITT & ASSOCIATES.
- ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS FOR ALL APPROPRIATE JURISDICTIONS.
- ALL CONSTRUCTION OF UTILITIES TO BE SCHEDULED AND APPROVED BY THE OWNER PRIOR TO ANY DISRUPTION OF SERVICES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EROSION AND SEDIMENT CONTROL AND ALL REASONABLE MEASURES SHALL BE TAKEN TO PROTECT DOWNSTREAM AND OFF-SITE LAND FROM EROSION AND SEDIMENT DAMAGE DUE TO GRADING OPERATIONS.
- APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING, GRADING OR OTHER LAND DISTURBANCE ACTIVITY AND SHALL BE MAINTAINED IN ACCORDANCE TO CURRENT EDITION OF THE MANUAL OF EROSION AND SEDIMENT CONTROL IN GEORGIA.
- WHERE NECESSARY, THE CONTRACTOR SHALL PROVIDE SHORING OR OTHER APPROVED METHOD IN ORDER TO MAKE THE WORK AREA STABLE AND SAFE.
- ALL WORK PERFORMED BY THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ACCESS FOR ALL EMERGENCY VEHICLES AT ALL TIMES.
- TOPS OF ALL EXISTING STRUCTURES THAT ARE TO REMAIN WITHIN THE AREA REQUIRING RE-GRADING SHALL BE RAISED OR LOWERED AS REQUIRED TO MEET NEW GRADES. PRIOR TO ANY ADJUSTMENT THE CONTRACTOR IS TO COORDINATE SUCH WORK WITH THE OWNER.
- ALL SURFACE AREAS TO HAVE POSITIVE DRAINAGE AT THE CONCLUSION OF THE CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION WORK. MATERIALS SHALL BE REMOVED FROM THE SITE AS SOON AS POSSIBLE AND SHALL NOT BE ALLOWED TO ACCUMULATE. CONTRACTOR SHALL BE RESPONSIBLE FOR HAULING OFF AND DISPOSING OF ANY DEBRIS TO AN APPROVED STATE LICENSED FACILITY.
- GRADE TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND INTO STORM STRUCTURES.
- CONTRACTOR TO MAINTAIN ALL STORM DRAINAGE STRUCTURES DURING THE COURSE OF CONSTRUCTION.
- THE CONTRACTOR IS TO VERIFY ALL LOCATIONS AND/OR TYPES OF UTILITIES NEAR THE PROJECT LIMITS BEFORE CONSTRUCTION BEGINS. ANY DAMAGE CAUSED BY THE CONTRACTOR'S PERSONNEL OR EQUIPMENT TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR TO OWNERS SPECIFICATIONS. SUCH DAMAGE SHALL BE THE CONTRACTORS EXPENSE TO PAY FOR ALL MATERIALS, LABOR AND NECESSARY PERMITS.
- CONTRACTOR SHALL ACQUIRE ALL PERMITS NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT.
- A SEPARATE BUILDING PERMIT SHALL BE OBTAINED FOR ALL RETAINING WALLS GREATER THAN 4 FEET IN HEIGHT AND ALL RETAINING WALLS USED AS A DAM PRIOR TO CONSTRUCTION OF THE WALLS.
- LAND DISTURBANCE TO BE LIMITED TO THOSE AREAS NEEDED FOR PROPOSED WORK.
- ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- NOTIFY THE CITY OF BROOKHAVEN INSPECTOR 24 HOURS BEFORE BEGINNING OF EVERY PHASE OF CONSTRUCTION.
- APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CITY OF BROOKHAVEN FOR ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE.
- WETLAND CERTIFICATION: THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING:
 - THE NATIONAL WETLAND INVENTORY DO NOT INDICATE SENSITIVE AREAS WITHIN THE PROJECT AREA.
 - A LETTER OF "NO PERMIT NEEDED" HAS BEEN ISSUED BY THE ARMY CORPS OF ENGINEERS FOR THIS PROJECT.

PROJECT SITE



LOCATION MAP
NOT TO SCALE



FIRM FLOOD MAP
NOT TO SCALE



FLOOD NOTE:
ACCORDING TO THE "FIRM" (FLOOD INSURANCE RATE MAP) OF DEKALB COUNTY, GEORGIA (PANEL NUMBER 13089C0012X), DATED AUGUST 15, 2019; NO PORTION OF THIS PROPERTY LIES WITHIN A SPECIAL FLOOD HAZARD AREA.

SURVEY NOTES

EQUIPMENT USED:
A TRIMBLE "S" SERIES TOTAL STATION WAS USED TO OBTAIN ANGULAR MEASUREMENTS AND DISTANCE MEASUREMENTS.
A TRIMBLE R-10 DUAL FREQUENCY GPS UNIT WAS USED FOR ESTABLISHING CONTROL. A NETWORK ADJUSTED RTK SURVEY WAS PERFORMED AND ADJUSTED BY RELATIVE POSITIONAL ACCURACY.

CLOSURE STATEMENT:
TRACT 1 HAS BEEN CALCULATED FOR CLOSURE AND IS ACCURATE WITHIN ONE FOOT IN 897,879 FEET.
TRACT 2 HAS BEEN CALCULATED FOR CLOSURE AND IS ACCURATE WITHIN ONE FOOT IN 239,751 FEET.

THE FIELD DATA UPON WHICH THIS SURVEY IS BASED HAD A CLOSURE OF ONE FOOT IN 31,741 FEET AND AN ANGULAR ERROR OF 1" PER ANGLE POINT AND WAS ADJUSTED USING THE COMPASS RULE.

THE BEARINGS SHOWN ON THIS SURVEY ARE COMPUTED ANGLES BASED ON A GRID BEARING BASE (GA WEST ZONE) NAD83.

ALL HORIZONTAL DISTANCES SHOWN ARE GROUND DISTANCES. MEASURING UNITS OF THIS SURVEY ARE IN U.S. SURVEY FEET.

CONTOURS ARE SHOWN AT ONE FOOT INTERVALS. ELEVATIONS ARE BASED ON RTK GLOBAL POSITIONING SYSTEMS OBSERVATION AND ARE RELATIVE TO NAVD 88 DATUM.

FIELD WORK FOR THIS PROPERTY WAS COMPLETED ON AUGUST 17, 2016

DISCLAIMERS:

INFORMATION REGARDING SIZE, LOCATION, AND SPECIES OF EXISTING TREES IS SHOWN HEREON. THERE IS NO CERTAINTY OF THE SIZE AND SPECIES OF THE SAID TREES WITHOUT VERIFICATION FROM THE DESIGNATED ARBORIST BY THE LOCAL REGULATORY AUTHORITY. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS CONTRACTORS, AND/OR HIS AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION SHOWN HEREON EXCEPT BY APPROVAL OF SAID AUTHORITY.

THIS SURVEY MAY NOT REPRESENT OFFSITE PAINT STRIPING TO THE ACCURACY REQUIRED FOR LANE DESIGN. TERRAMARK LOCATES THE EDGE OF PAVING AND CRITICAL POINTS TO REFLECT ACCURATE TOPOGRAPHIC DATA ONLY. ACCURACY OF PAINT LOCATIONS SHOULD BE VERIFIED WITH SURVEYOR PRIOR TO USING THIS SURVEY FOR DESIGN.

INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER, AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES IS SHOWN HEREON. THERE IS NO CERTAINTY TO THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING. THE LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON MAY BE INACCURATE AND UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS CONTRACTORS, AND/OR HIS AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION SHOWN HEREON AS TO SUCH UNDERGROUND INFORMATION.

INFORMATION REGARDING STORM SEWER AND SANITARY SEWER AS SHOWN HEREON, IS BASED ON OBSERVATIONS TAKEN BY TERRAMARK EMPLOYEES AT THE GROUND ELEVATION OF THE EXISTING STRUCTURE. TERRAMARK EMPLOYEES ARE NOT AUTHORIZED TO ENTER A CONFINED SPACE SUCH AS A STRUCTURE. THEREFORE, THERE IS NO CERTAINTY OF THE PIPE SIZES AND PIPE MATERIAL THAT THE SHOWN ON THIS SURVEY. EXCAVATION BY A CERTIFIED CONTRACTOR IS THE ONLY WAY TO VERIFY PIPE SIZE AND MATERIAL. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS CONTRACTORS, AND/OR HIS AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THE PIPE INFORMATION SHOWN HEREON.

STATE WATERS AND BUFFERS AS SHOWN OR NOT SHOWN HEREON ARE SUBJECT TO REVIEW BY LOCAL JURISDICTION OFFICIALS. IT IS THE RESPONSIBILITY OF THE LOCAL AUTHORITY TO DETERMINE SPECIFIC WATER CLASSIFICATION. THEREFORE, TERRAMARK LAND SURVEYING ACCEPTS NO RESPONSIBILITY IN THE IDENTIFICATION OF SAID WATERS OR BUFFERS IDENTIFIED OR NOT IDENTIFIED HEREON.

PROPERTY IS SUBJECT TO RIGHTS OF UPPER AND LOWER RIPARIAN OWNERS IN AND TO THE WORK OF CREEKS AND BRANCHES CROSSING OR ADJOINING SUBJECT PROPERTY AND THE NATURAL FLOW THEREOF, FREE FROM DIMINUTION OR POLLUTION.

THIS SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF THE PERSON, PERSONS OR ENTITY NAMED HEREON. THIS SURVEY DOES NOT EXTEND TO ANY UNNAMED PERSON, PERSONS OR ENTITY WITHOUT THE EXPRESS CERTIFICATION BY THE SURVEYOR NAMING SAID PERSON, PERSONS OR ENTITY.

TERRAMARK LAND SURVEYING, INC. DOES NOT WARRANT THE EXISTENCE OR NON-EXISTENCE OF ANY WETLANDS OR HAZARDOUS WASTE IN THE SURVEY AREA.

UTILITY NOTES

THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON LOCATION OF MARKINGS PROVIDED BY:

UTILISURVEY, LLC.
154 GRANT ROAD
FAYETTEVILLE, GA 30215
PHONE: 404-312-6912
ATTENTION: HANS WONNEBERGER

THE UNDERGROUND UTILITIES (EXCEPT THE LOCATION OF EXISTING DRAINAGE, SEWER, AND IRRIGATION UTILITIES AS WELL AS UNDERGROUND STORAGE TANKS) WERE LOCATED BY UTILISURVEY, LLC. UTILIZING RADIO FREQUENCY TECHNIQUE AND IN ACCORDANCE TO LEVEL "B" UTILITY LOCATION CRITERIA. THIS TECHNIQUE IS CAPABLE OF LOCATING METALLIC UTILITIES AND TRACER WIRES. ANY NON-METALLIC UTILITIES (WITHOUT TRACER WIRE) ARE NOT LOCATED.

THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. UNDERGROUND UTILITIES NOT OBSERVED OR LOCATED UTILIZING THIS TECHNIQUE MAY EXIST ON THIS SITE BUT ARE NOT SHOWN, AND MAY BE FOUND UPON EXCAVATION. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

INFORMATION REGARDING MATERIAL AND SIZE OF UTILITIES IS BASED ON RECORDS ACQUIRED FROM THE UTILITY OWNERS.

TITLE NOTES

ACCORDING TO THE "FIRM" (FLOOD INSURANCE RATE MAP) OF DEKALB COUNTY, GEORGIA (PANEL NUMBERS 13089C0012J & 13089C0014J), DATED MAY 16, 2013, A PORTION OF THIS PROPERTY LIES WITHIN A SPECIAL FLOOD HAZARD AREA. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT, WHICH COULD REVEAL ENCUMBRANCES NOT SHOWN ON THIS SURVEY. SUBJECT PROPERTY HAS ACCESS TO THE PUBLIC RIGHT OF WAY OF WEST NANCY CREEK DRIVE, CANDLER LAKE WEST & CANDLER LAKE EAST.

SITE DATA:

PARCEL: 1833101005
OWNER: CITY OF BROOKHAVEN
ADDRESS: 1551 WEST NANCY CREEK DRIVE
ACREAGE: 120.1263 ACRES
ZONING: R-100

TOTAL SITE AREA: 120 AC
TOTAL DISTURBED AREA: 0.73 AC

AREA TABLE

TRACT 1 3,630,024 SQ.FT. OR 83.3339 AC.
TRACT 2 1,602,679 SQ.FT. OR 36.7924 AC.
TOTAL AREA 5,232,703 SQ.FT. OR 120.1263 AC.

OWNER/PRIMARY PERMITEE:

CONTACT: CHRISTIAN SIGMAN, CITY MANAGER
CITY OF BROOKHAVEN
4362 PEACHTREE ROAD NE
BROOKHAVEN, GEORGIA 30319
PHONE: (404) 637-0513
CHRISTIAN.SIGMAN@BROOKHAVENGA.GOV

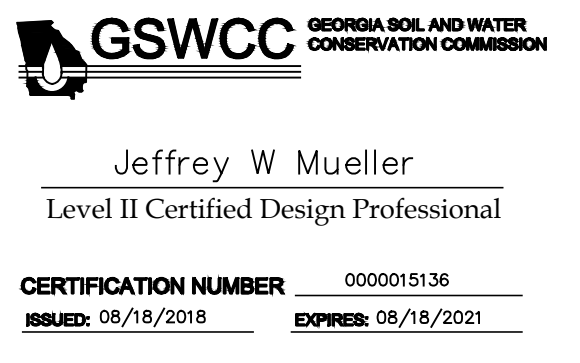
24-HOUR CONTACT:

CONTACT: LEE CROY, PARKS PROGRAM MANAGER
CITY OF BROOKHAVEN
PHONE: 678 576 9846
EMAIL: LEE.CROY@BROOKHAVENGA.GOV

LEAD DESIGN PROFESSIONAL:

CONTACT: GE GRACE ZHANG, RLA
CLARK PATTERSON LEE
3011 SUTTON GATE DRIVE, SUITE 130
SUWANEE, GEORGIA 30024

OFFICE: (770) 831-9000
EMAIL: GZHANG@CPLTEAM.COM



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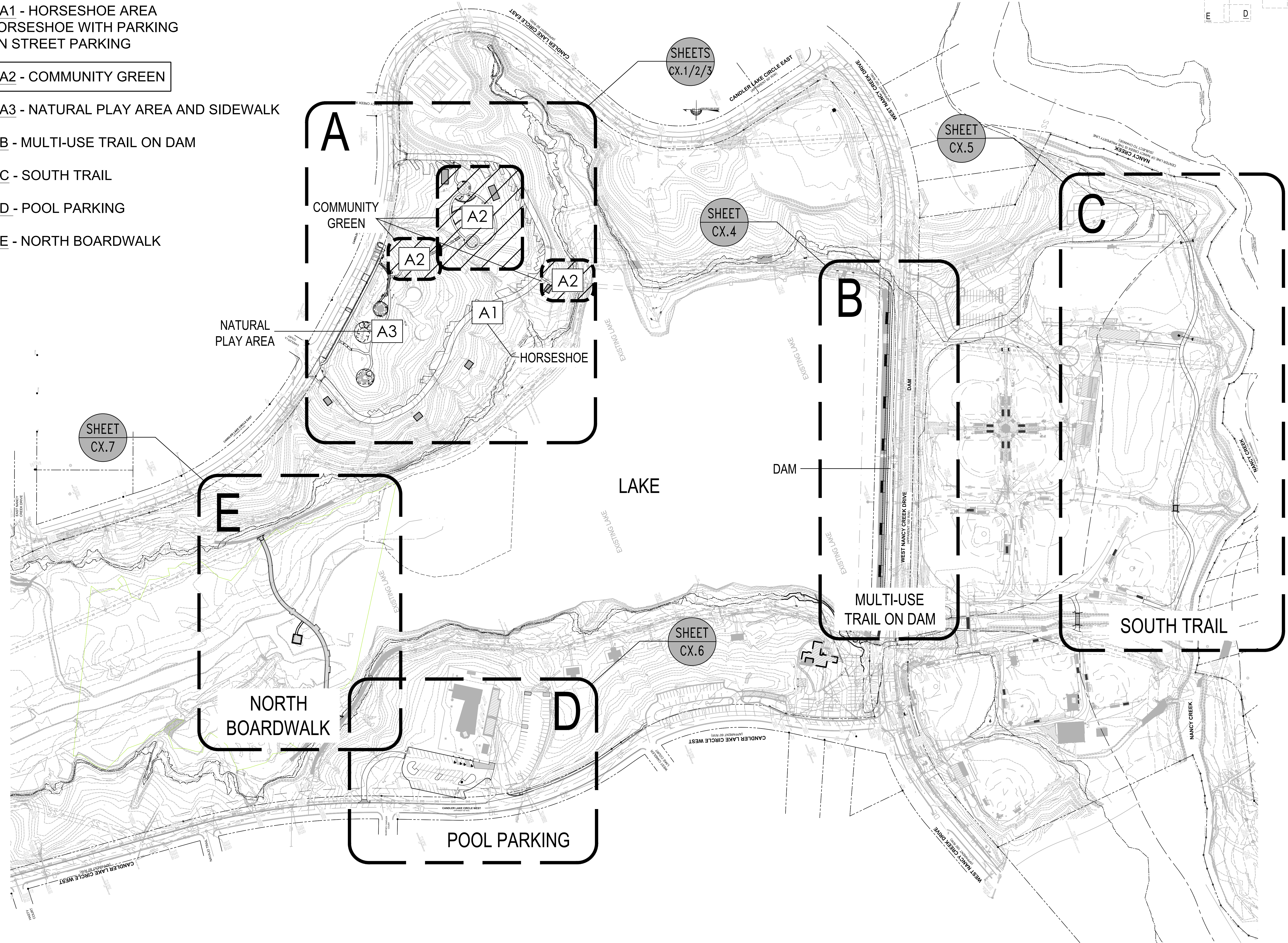
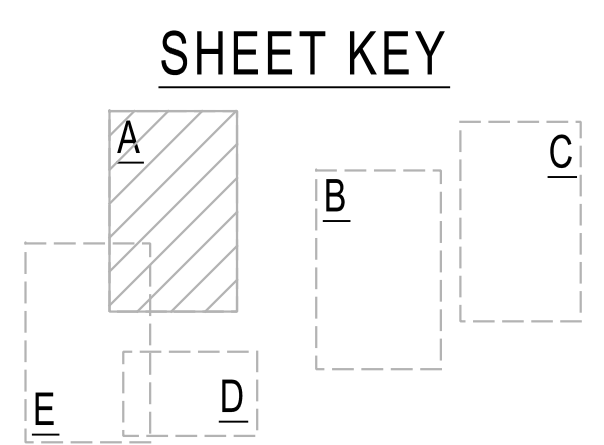


2016 SURVEY & 2019 UPDATED TREE SURVEY
TERRAMARK LAND SURVEYING, INC.
1306 BELLS FERRY ROAD
MARIETTA, GEORGIA 30066
PHONE NO. (770) 421-1927
FAX NO. (770) 421-0552
WWW.TERRAMARK.COM
C. O. A.# LSF000810

NOTE:
THE WRESTED VEGETATION
AND BOB CONTOUR WERE
SURVEYED IN BY
TERRAMARK ON FEB. 4,
2021

AREA CODE INDEX

1. **AREA A1 - HORSESHOE AREA**
 - HORSESHOE WITH PARKING
 - ON STREET PARKING
2. **AREA A2 - COMMUNITY GREEN**
3. **AREA A3 - NATURAL PLAY AREA AND SIDEWALK**
4. **AREA B - MULTI-USE TRAIL ON DAM**
5. **AREA C - SOUTH TRAIL**
6. **AREA D - POOL PARKING**
7. **AREA E - NORTH BOARDWALK**



No.	Date	Description
11	08/17	LDP - South Trail - City Comment #2
12	08/17	LDP - South Trail - City Comment #1
13	10/13	LDP - Pool Parking - City Comment #1
14	10/16	LDP - Natural Play Area Field Change #1
15	10/19	Multi-use Trail on Dam - Feedback Review
16	11/16	LDP - Pool Parking - City Comment #2
17	11/20	LDP - Community Green - City Comment #2
18	11/20	LDP - Community Green - City Comment #1
19	11/20	NORTH BOARDWALK DESIGN/ID



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
 1551 W. NANCY CREEK DRIVE NE
 BROOKHAVEN, GEORGIA 30319

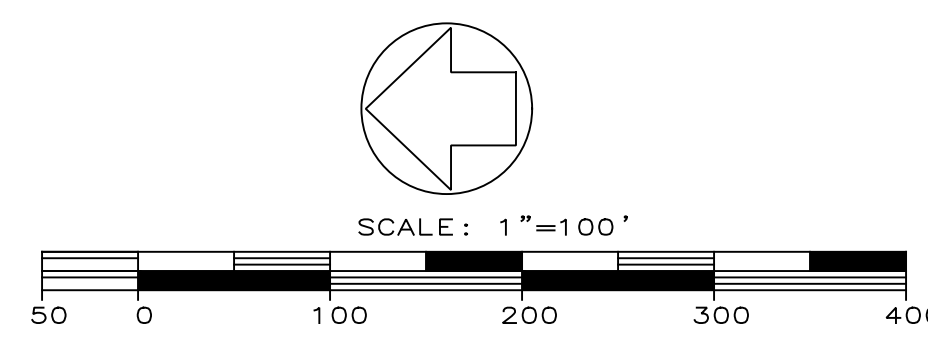
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SHEET TITLE		
KEY SHEET		
COMMUNITY GREEN		

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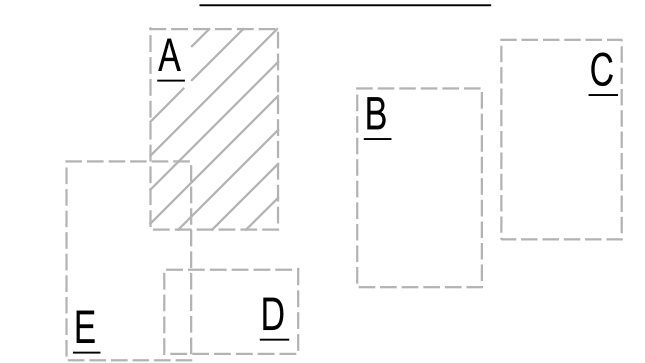
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2018 SURVEY & 2019 UPDATED TREE SURVEY
 TERRAMARK LAND SURVEYING, INC.
 1306 BELLS TERRY ROAD
 MARIETTA, GEORGIA 30066
 PHONE NO. (770) 421-1927
 FAX NO. (770) 421-0552
 WWW.TERRAMARK.COM
 C. O. A.# LSF000810



SHEET KEY



TREE LEGEND (ABBREVIATIONS)

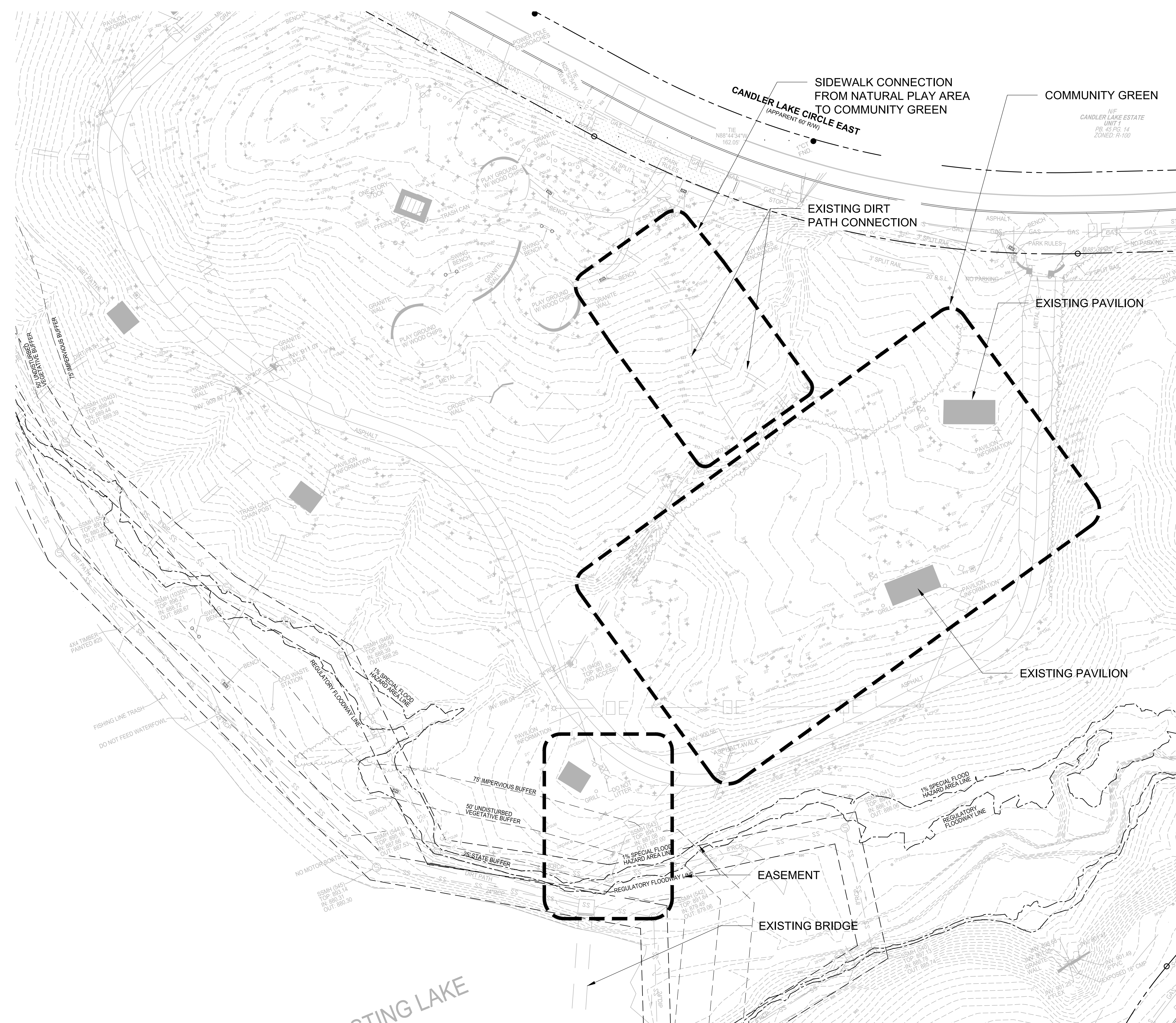
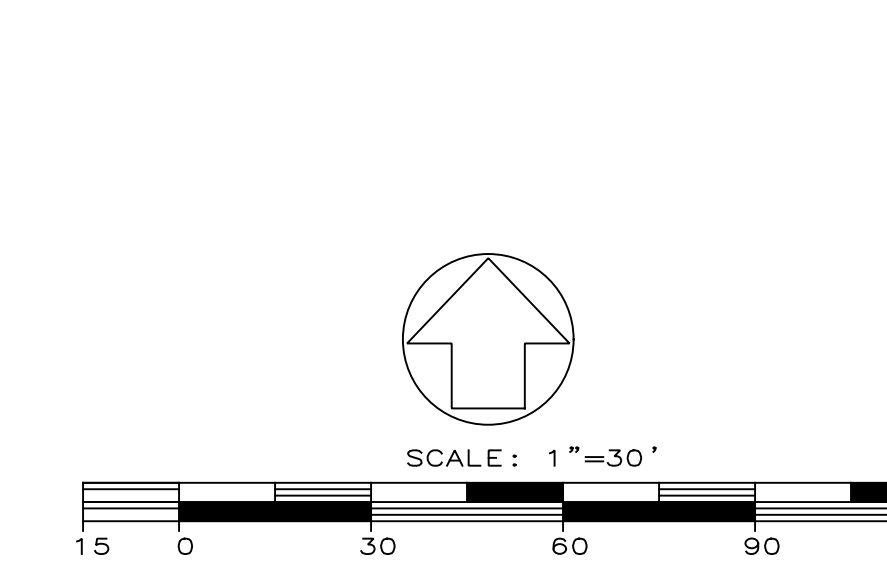
	DECIDUOUS (TREE)	BIR BCH	BIRCH	HLV	HOLLY
	CONIFEROUS (TREE)	CM	BEECH	HW	HARDWOOD
		CHY	GRAPE MYRTLE	MAG	MAGNOLIA
		CYP	CHERRY	MAP	MAPLE
		FIR	CYPRESS	OAK	OAK
		GUM	FIR	ORN	ORNAMENTAL
		HIC	GINGKO	PEAR	PEAR
			SWEET GUM	POP	POPLAR
			HICKORY	SYC	SYCAMORE

ABBREVIATIONS

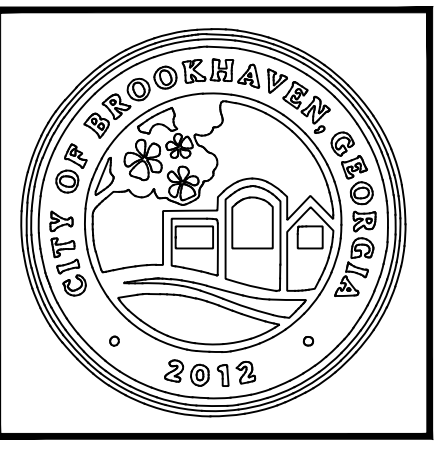
A	ARC LENGTH	IPS	IRON PIN SET (CAPPED)
AC	ACRE	NF	NOW OR FORMERLY
AE	ACCESS EASEMENT	OTP	OPEN TOP PIPE
BSL	BUILDING SETBACK LINE	PLB	PLAT BOOK
BW	BARBWIRE	PS	PAGE
CH	CHORD LENGTH	POB	POINT OF BEGINNING
CLF	CHAIN LINK FENCE	POC	POINT OF COMMENCEMENT
CMF	CONCRETE MONUMENT FOUND	R	RADIUS LENGTH
CMP	CORRUGATED METAL PIPE	R/W	RIGHT OF WAY
CONC.	CONCRETE	R/W MON	RIGHT OF WAY MONUMENT
CTP	CRIMP TOP PIPE	RESAR	REINFORCED CONCRETE PIPE
DB	DECK BOARD	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	SDE	STORM DRAINAGE EASEMENT
FDC	FIRE DEPARTMENT CONNECTION	SO, FT.	SQUARE FEET
FND	FOUND	SSE	SANITARY SEWER EASEMENT
HDPE	HIGH DENSITY POLYETHYLENE PIPE	WPF	WOOD PRIVACY FENCE
IPF	IRON PIN FOUND		

LEGEND

	CURB AND GUTTER (C&G)
	FENCE
	HANDRAIL
	STORM DRAIN LINE
	SANITARY SEWER
	WATER LINE
	GAS LINE
	UNDERGROUND POWER LINE
	OVERHEAD POWER LINE
	COMMUNICATION
	TOPOGRAPHIC CONTOUR
	PROPERTY LINE
	GUARD RAIL
	WET WEATHER DITCH
	WATER SPIGOT
	CATCH BASIN (DWCB)
	CATCH BASIN (SWCB)
	DROP INLET (DI)
	JUNCTION BOX (JB)
	HEAD WALL (HW)
	CURB INLET (CI)
	FLARED END SECTION (FES)
	OUTLET CONTROL STRUCTURE
	YARD DRAIN INLET
	SS MANHOLE (MH)
	CLEAN OUT (CO)
	IRRIGATION CONTROL VALVE
	FIRE HYDRANT (FH)
	WATER VALVE (WV)
	WATER METER (WM)
	FIRE DEPT. CONNECTION (FDC)
	WATER VALVE MARKER
	TRANSFORMER BOX (TX)
	AIR CONDITIONER (AC)
	ELECTRIC METER (EM)
	ELECTRIC UTILITY
	LIGHT POLE (LP)
	POWER POLE WITH LIGHT
	POWER POLE (PP)
	UTILITY MANHOLE (UM)
	SPOTLIGHT
	GAS METER (GM)
	GAS VALVE (GV)
	TELEPHONE PEDESTAL
	COMMUNICATION BOX
	BOLLARD (BO)
	MAIL BOX
	SIGN
	SPOT ELEVATION
	CONCRETE AREA
	OVERHANG AREA
	RIP-RAP AREA
	BRICK AREA
	TREELINE

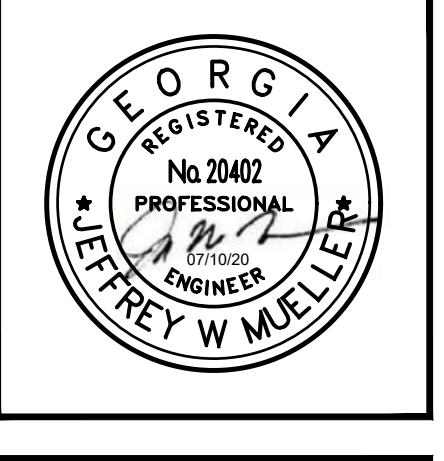


ARCHITECTURE
ENGINEERING
PLANNING
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DRAWINGS SCHEDULE

No.	Date	Description
11	08/17	LDP - South Trail - City Comment #2
12	08/17	LDP - South Trail - City Comment #1
13	10/13	LDP - Foot Parking - City Comment #1
14	10/16	LDP - Natural Plus Area Field Change #1
15	10/19	Midweek Trail on Deck - Pedestrian Review
16	11/16	LDP - Foot Parking - City Comment #2
17	11/20	LDP - Community Green - City Comment #1
18	11/20	LDP - Community Green - City Comment #2
19	11/20	NORTH BOUNDARY REDRAWN



CITY OF BROOKHAVEN
MURPHY CANDLEY PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

DATE	DRAWN	CHECKED
04/23/20	BM	GZ

SHEET TITLE
EXISTING CONDITIONS
COMMUNITY GREEN

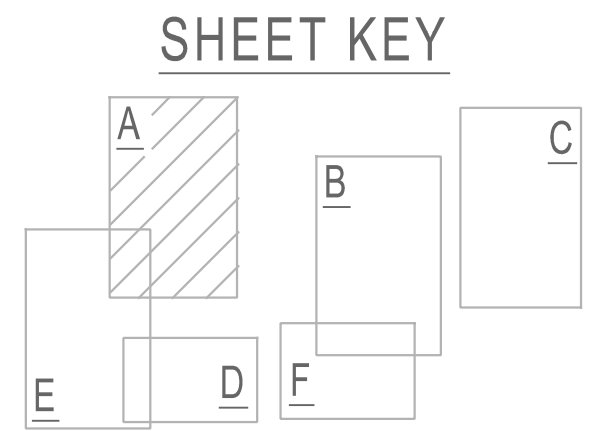
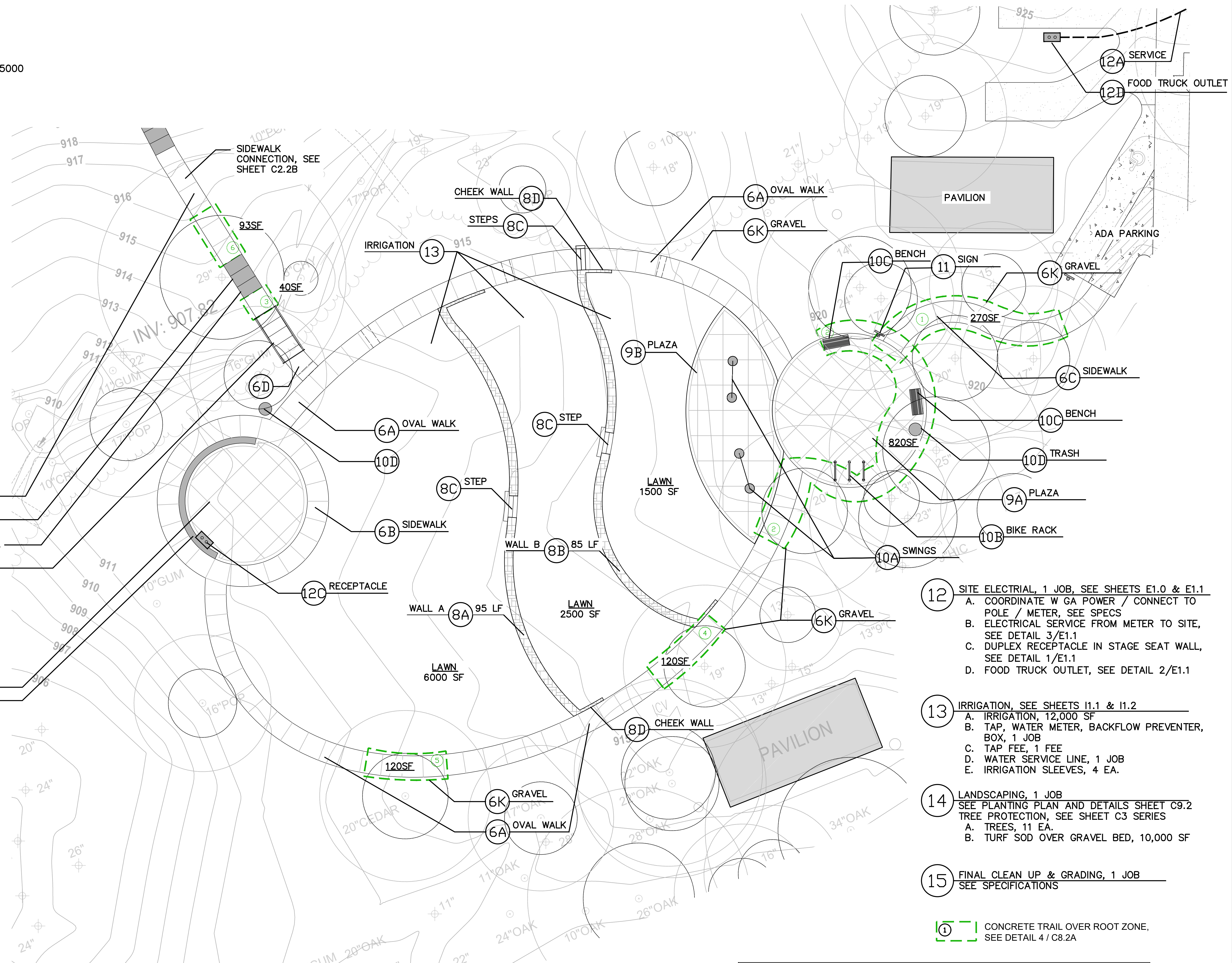
PROJECT NUMBER	15092.00
SHEET NUMBER	C1.2
DRAWING NUMBER	

GEORGIA811
Utilities Protection Center, Inc.
1-800-282-7411
Know what's below.
Call before you dig.

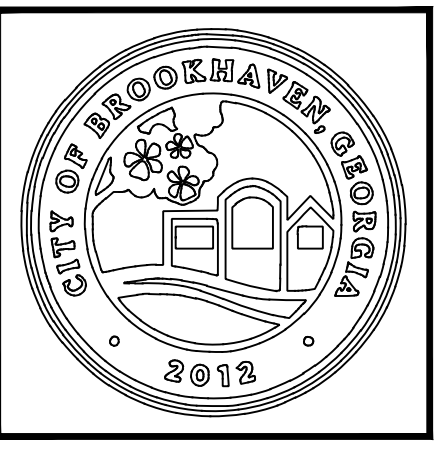
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1306 BELLS TERRY ROAD
MARIETTA, GEORGIA 30066
PHONE NO. (770) 421-1927
FAX NO. (770) 421-0552
WWW.TERRAMARK.COM
C. O. A. # LSF000810

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 Plotted By: Grace Zhang

- 1 PRECONSTRUCTION, SEE SHEET C4 SERIES
 - A. MOBILIZATION, 1 JOB
 - B. CONSTRUCTION STAKEOUT, 1 JOB
- 2 DEMOLITION, 1 JOB - SEE SHEET C3 SERIES
- 3 SITE CLEARING & GRUBBING, 1 JOB - SEE SHEET C3 SERIES
 - A. TREE PROTECTION FENCE 1300 LF SEE DETAIL 4, C8.2A
 - B. TREE REMOVAL (NIC)
 - C. TREE PRUNING & CARE FOR ADJACENT TREES ALLOWANCE \$5000
 - D. GENERAL SITE CLEARING, 1 JOB, SEE SPECIFICATIONS
- 4 GRADING, DRAINAGE, AND UTILITIES, 1 JOB, SEE SHEET C5 SERIES
 - A. COMMUNITY GREEN SPACE, 20,500 SF
 - B. SIDEWALK CONNECTION TO PARKING LOT, 400 SF
 - C. GRADING AND TOPSOIL FOR GRAVEL GRASS AREA, 10,000 SF
 - D. GRAVEL UNDER TURF - #57 STONE WASHED, 9,857 SF
 - E. RAMP STEPS HAND GRADING - 2,200 SF
 - F. SIDEWALK CONNECTION TO LAKE - 1,100 SF
 - G. STORM DRAIN - 120 LF
 - H. STORM OUTLETS
 - I. STORM PIPES
- 5 EROSION CONTROL, 1 JOB, SEE SHEET C7 SERIES AND GSWCC APPROVED PLANS.
 - A. CONSTRUCTION ENTRANCE, 1EA
 - B. CONSTRUCTION ENTRANCE - MAINTENANCE, 1JOB
 - C. SILT SOCK 1050 LF
 - D. SILT SOCK - MAINTENANCE, 1 JOB
 - E. SILT FENCE XXX LF
 - F. SILT FENCE - MAINTENANCE, 1 JOB
- 6 SIDEWALK CONNECTIONS
 - A. OVAL LAYOUT 5' CONCRETE SIDEWALK, 1,685 SF, SEE DETAIL 1/C8.2A
 - B. 5' CONCRETE SIDEWALK AROUND THE STAGE, 600 SF, SEE DETAIL 1/C8.2A
 - C. 5' CONCRETE SIDEWALK CONNECTION TO PARKING, 300 SF, SEE DETAIL 1/C8.2A (BID ALTERNATE - PERVIOUS CONCRETE, SEE DETAIL 4B/C8.2A)
 - D. 5' CONCRETE SIDEWALK TO RAMP STEPS, 100 SF, SEE DETAIL 1/C8.2A
 - E. 5' SIDEWALK CONNECTIONS BETWEEN RAMP STEPS, 375 SF, SEE DETAIL 1/C8.2A
 - F. 5' RAMP STEPS & WOODEN FRAMING 5' X 90', 90 LF, SEE DETAIL 9/C8.2A
 - G. RAMP STEP LANDING 3' X 5' X 35 EA. 525 SF, SEE DETAIL 9/C8.2A
 - H. 6' WOODEN FOOT BRIDGE 6' X 12', 72 SF, SEE DETAIL 3A/C8.2B
 - I. BUMPER RAIL, 24 LF, SEE DETAIL 3B/C8.2B
 - J. 5' CONCRETE SIDEWALK CONNECTION TO LAKE, 535 SF, SEE DETAIL 1/C8.2A
 - K. 5' CONCRETE STEPS TO LAKE 15 EA., 75 LF, SEE DETAIL 6/C8.2A
 - L. GRAVEL OVER ROOT ZONES FOR SIDEWALK, 1,540 SF, SEE DETAIL 5/C8.2A
- 7 STAGE
 - A. CONCRETE PAVEMENT - 710 SF, SEE DETAIL 1, C8.2A
 - B. SEAT WALL WITH CAP - 40 LF, SEE DETAIL 2, C8.2B
- 8 RETAINING WALLS
 - A. SEAT WALL A - 95 LF, SEE DETAIL 1/C8.2B
 - B. SEAT WALL B - 85 LF, SEE DETAIL 1/C8.2B
 - C. CONCRETE STEPS 9 STEPS X 5' WIDE - 45 LF, SEE DETAIL 6/C8.2A
 - D. 8" WIDE CHEEKWALLS 30 LF, SIMILAR DETAIL 1/C8.2B
- 9 SITTING AREA
 - A. SITTING PLAZA CONCRETE PAVEMENT - 1020 SF, SEE DETAIL 4/C8.2A (BID ALTERNATE - PERVIOUS CONCRETE, SEE DETAIL 4B/C8.2A)
 - B. SWING BENCH PLAZA - 850 SF, SEE DETAIL 4/C8.2A
- 10 SITE FURNITURE
 - A. SWING BENCH - 2 EACH, SEE DETAIL 7/C8.2B
 - B. BIKE RACK - 3 EACH, SEE DETAIL 6/C8.2B
 - C. BENCH - 2 EACH, SEE DETAIL 4/C8.2B
 - D. TRASH CAN - 2 EACH, SEE DETAIL 5/C8.2B
- 11 SITE SIGNAGE
 - A. PARK RULE SIGN - 1 JOB



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DRAWINGS SCHEDULE

No.	Date	Description
31	04/29	Multi-use Trail as Shown - Product Review
32	05/05	UGP - Community Green - City Commission
33	05/14	UGP - Irrigation - City Commission
34	05/28	UGP - Community Green - City Commission



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

- 12 SITE ELECTRICAL, 1 JOB, SEE SHEETS E1.0 & E1.1
 - A. COORDINATE W GA POWER / CONNECT TO POLE / METER, SEE SPECS
 - B. ELECTRICAL SERVICE FROM METER TO SITE, SEE DETAIL 3/E1.1
 - C. DUPLEX RECEPTACLE IN STAGE SEAT WALL, SEE DETAIL 1/E1.1
 - D. FOOD TRUCK OUTLET, SEE DETAIL 2/E1.1
- 13 IRRIGATION, SEE SHEETS I1.1 & I1.2
 - A. IRRIGATION, 12,000 SF
 - B. TAP, WATER METER, BACKFLOW PREVENTER, BOX, 1 JOB
 - C. TAP FEE, 1 FEE
 - D. WATER SERVICE LINE, 1 JOB
 - E. IRRIGATION SLEEVES, 4 EA.
- 14 LANDSCAPING, 1 JOB
 - SEE PLANTING PLAN AND DETAILS SHEET C9.2
 - TREE PROTECTION, SEE SHEET C3 SERIES
 - A. TREES, 11 EA.
 - B. TURF SOD OVER GRAVEL BED, 10,000 SF
- 15 FINAL CLEAN UP & GRADING, 1 JOB
 - SEE SPECIFICATIONS

① CONCRETE TRAIL OVER ROOT ZONE, SEE DETAIL 4 / C8.2A

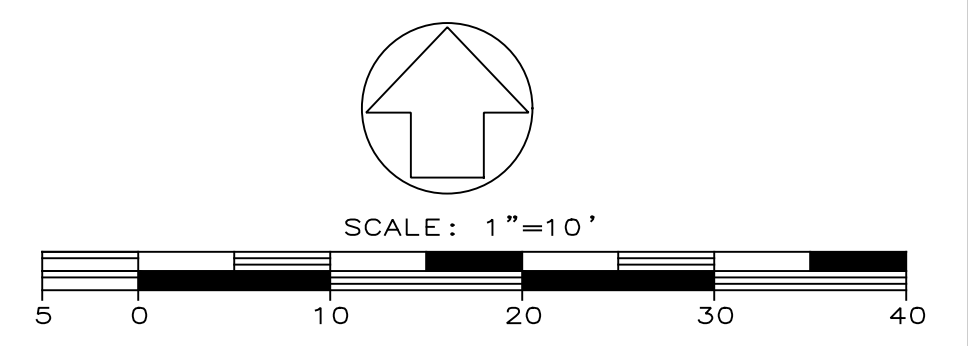
QUANTITY NOTE:
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GEORGIA811
Utilities Protection Center, Inc.
1-800-282-7411
Know what's below.
Call before you dig.

2021 SMALL TREE LOCATION
CPL LEAD DESIGNER FIELD LOCATED THE SMALL TREES ON SITE BY VISIT

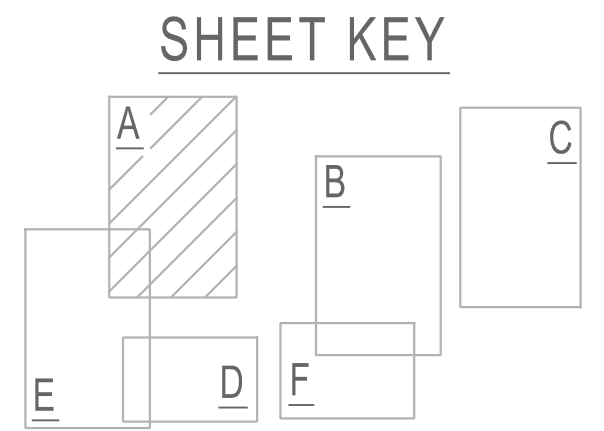
2016 SURVEY & 2019 UPDATED TREE SURVEY
TERRAMARK LAND SURVEYING, INC.
1396 BELLS FERRY ROAD
MARIETTA, GEORGIA 30066
PHONE NO. (770) 421-1927
FAX NO. (770) 421-0552
WWW.TERRAMARK.COM
C. O. A. # LSF000810

NOTE: THE WRESTED VEGETATION AND 80% CONTOUR WERE SURVEYED IN BY TERRAMARK ON FEB. 4, 2021



DATE	DRAWN	CHECKED
03/03/21	GZ	MC
SCALE		
SHEET TITLE		
CONSTRUCTION ITEMS COMMUNITY GREEN		

PROJECT NUMBER	15092.00
C2.2A	
DRAWING NUMBER	



DRAWINGS SCHEDULE

No.	Date	Description
31	04/29	Multi-Use Trail as Shown - Pre-Submittal Review
32	05/05	UGP - Community Green - City Council #
33	05/14	UGP - Horseshoe - City Council #
34	05/28	UGP - Community Green - City Council #



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

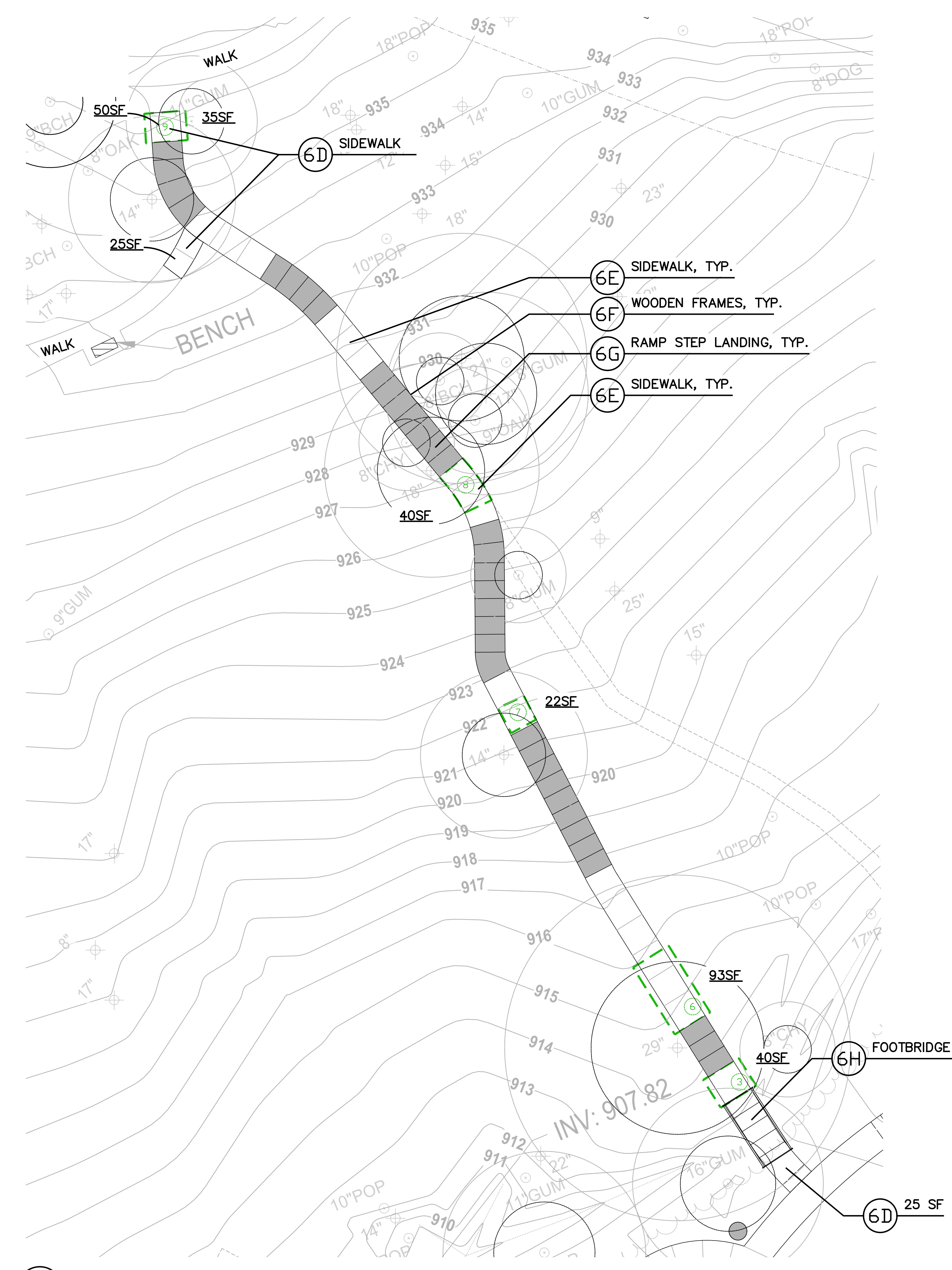
DATE	DRAWN	CHECKED
03/03/21	GZ	MC

SCALE

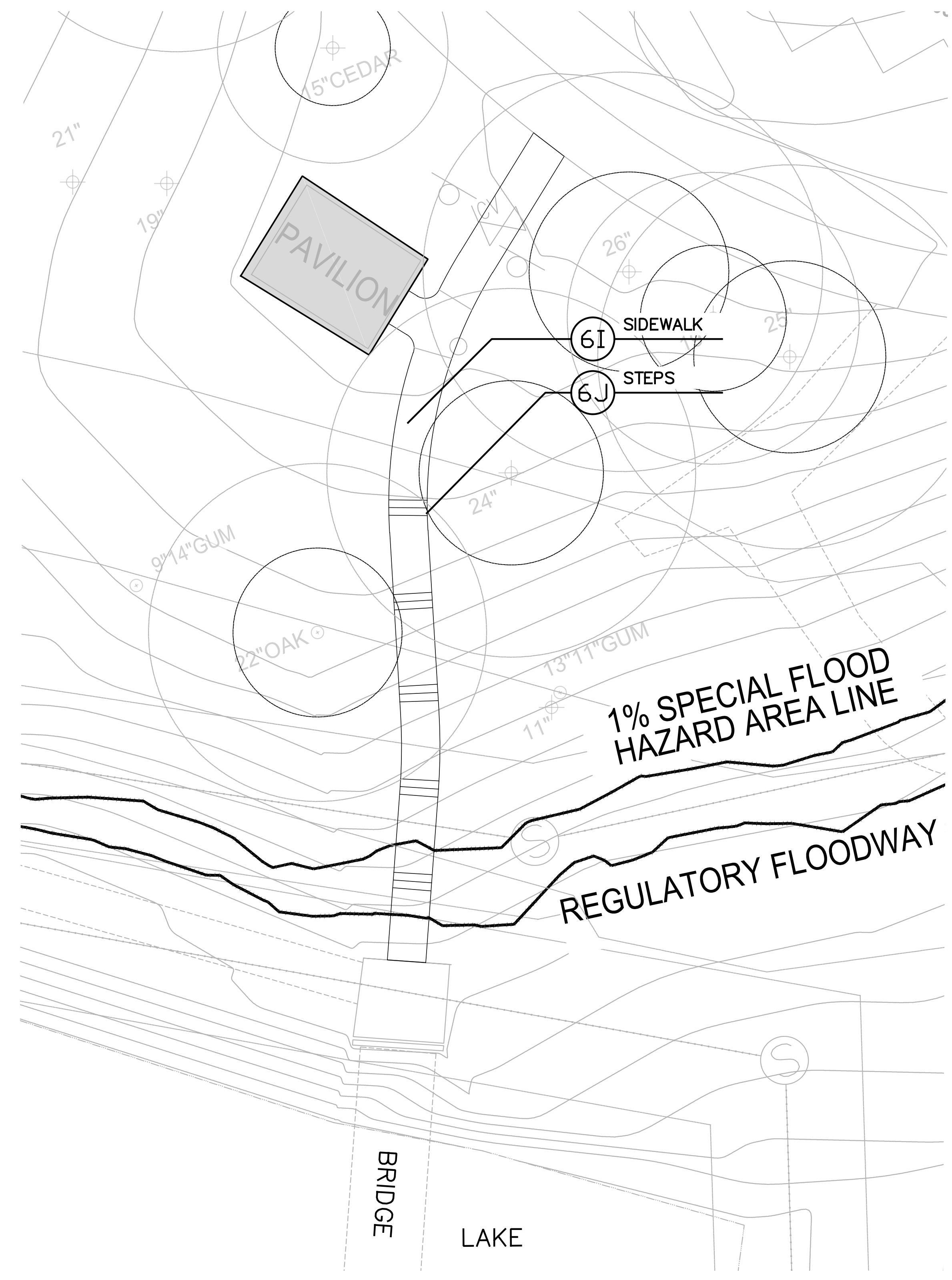
SHEET TITLE

CONSTRUCTION ITEMS
COMMUNITY GREEN

PROJECT NUMBER	15092.00
DRAWING NUMBER	C2.2B



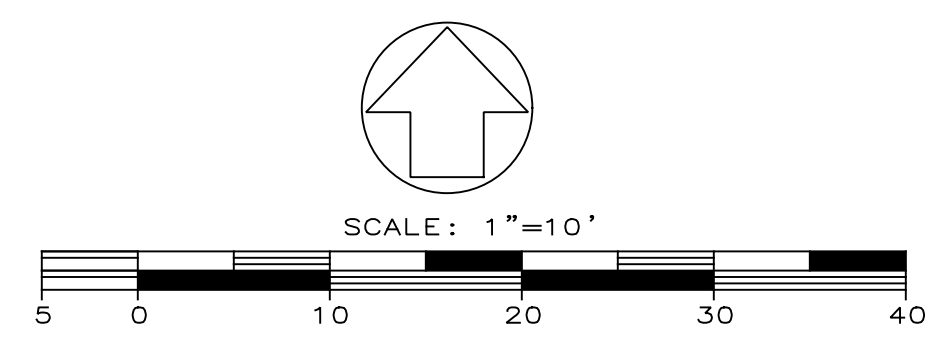
1 SIDEWALK CONNECTION A - FROM NATURAL PLAY AREA TO COMMUNITY GREEN
1"=10'



2 SIDEWALK CONNECTION B - FROM HORSESHOE TO BRIDGE
1"=10'

① CONCRETE TRAIL OVER ROOT ZONE
SEE DETAIL 5 / C8.2A

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CPL LEAD DESIGNER FIELD LOCATED THE SMALL TREES ON SITE BY VISIT

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Drawing Name: S:\Project\Brookhaven, C\Murphey, Candler\0 Design\01 Job Info\CAD\C2 Series_MGP-Construction\Items.dwg
Date last accessed: 5/28/2021 12:21 PM
Date last plotted: 5/28/2021 12:21 PM
Plotted By: Grace Zhong

TREE PROTECTION NOTES:

- NO PARKING, STORAGE OR OTHER CONSTRUCTION ACTIVITIES ARE ALLOWED WITHIN TREE PROTECTION AREAS.
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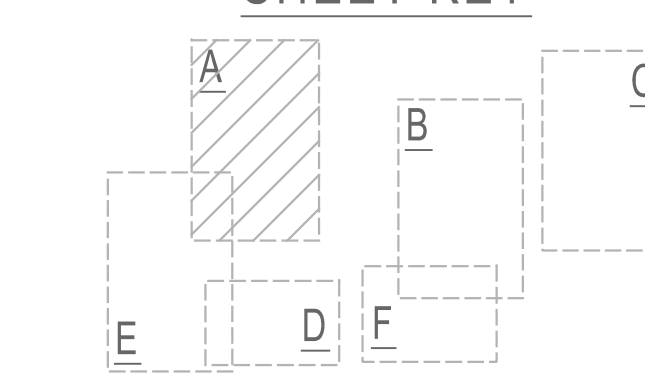
SITE VISIT:

CONTRACTOR SHALL VISIT THE SITE TO VALIDATE ALL DEMOLITION ITEMS AND VERIFY QUANTITIES.

DEMOLITION NOTES:

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- SAWCUT PAVEMENTS, CURBS, AND/OR WALLS WHOLE TO PROVIDE SMOOTH TRANSITION BETWEEN IMPROVEMENTS TO REMAIN & NEW IMPROVEMENTS.

SHEET KEY



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DRAWINGS SCHEDULE

No.	Date	Description
31	04/29	Multi-use Trail as Shown - Product Review
32	05/05	UGP - Community Green - City Council #1
33	05/14	UGP - Community Green - City Council #2
34	05/28	UGP - Community Green - City Council #3

CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

DATE	DRAWN	CHECKED
03/03/21	GZ	MC
SCALE	SHEET TITLE	
	DEMO AND TREE PROTECTION PLAN - COMMUNITY GREEN	

PROJECT NUMBER	15092.00
SHEET NUMBER	C3.2A
DRAWING NUMBER	

Park Bond Project Tree Preservation Form

Park Name Murphey Candler Park
Project: COMMUNITY GREEN
Jan. 20, 2020



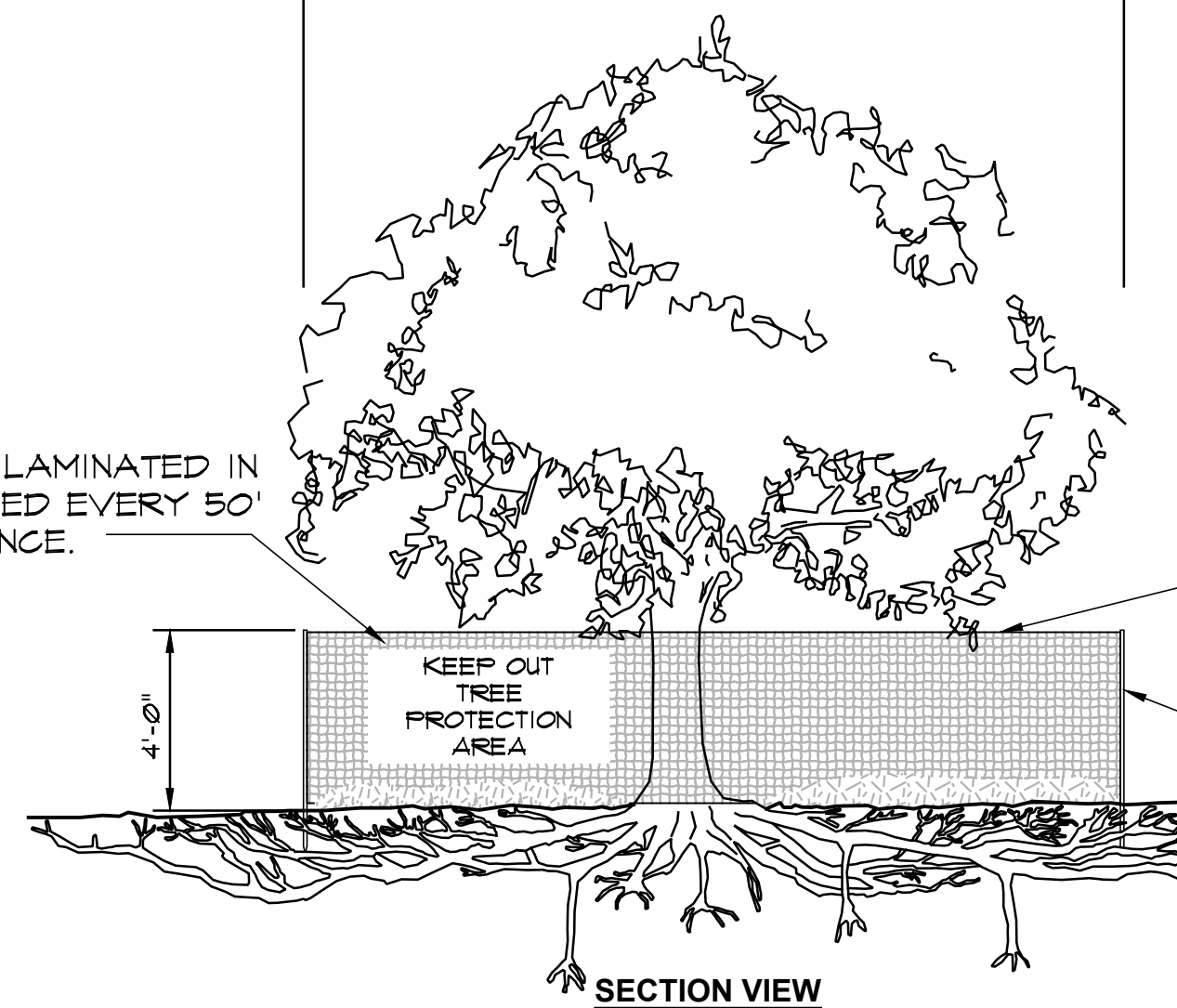
Proposed Trees Removed

ID	Species	Size (Inches DBH)	Condition	Status	Reason for Removal	Quantity
1	LOBLOLLY PINE	25			ADA Route	1
2	SWEETGUM	10			ADA Route	1
3	LOBLOLLY PINE	26			ADA Route	1
4	LOBLOLLY PINE	25			Safety Concern	1
5	LOBLOLLY PINE	23			Safety Concern	1
6	LOBLOLLY PINE	25			Safety Concern	1
7	CHERRY TREE	10	8		Lawn Area	1
8	DOGWOOD	8			Lawn Area	1
9	LOBLOLLY PINE	14			Safety Concern	1
10	LOBLOLLY PINE	13			Safety Concern	1
11	LOBLOLLY PINE	13			Safety Concern	1
12	LOBLOLLY PINE	18			Safety Concern	1
13	LOBLOLLY PINE	27			Safety Concern	1
14	LOBLOLLY PINE	38			Safety Concern	1
Total Inches Removed		283			Total Number of Trees Removed	14

NOTES:

- SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
- IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.
- NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
- NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
- SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.

CROWN DRIP LINE OR OTHER LIMIT OF TREE PROTECTION AREA. SEE TREE PRESERVATION PLAN FOR FENCE ALIGNMENT.



1 TREE PROTECTION FENCE
1/4" = 1'-0"

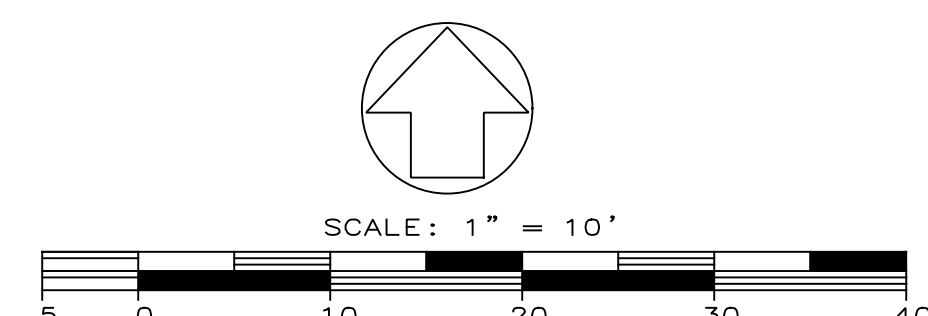
TREE PROTECTION FENCE: HIGH DENSITY POLYETHYLENE FENCING WITH 3.5" X 1.5" OPENINGS; COLOR- ORANGE. STEEL POSTS INSTALLED AT 8' O.C.
2" X 6" STEEL POSTS OR APPROVED EQUAL.
MAINTAIN EXISTING GRADE WITH THE TREE PROTECTION FENCE UNLESS OTHERWISE INDICATED ON THE PLANS.

Drawing Name: S:\Projects\Brookhaven-C\Murphey Candler\0 Design\01 Job Info\CAD\C3 Series_MCP-Demo Plan.dwg
Date last plotted: 5/28/2021 2:14 PM
Date last accessed: 5/28/2021 1:32 PM
Plotted By: Geocia Zhang

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1-800-282-7411
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C. O. A. # LSF000810

NOTE: THE WRESTED VEGETATION AND 883 CONTOUR WERE SURVEYED IN BY TERRAMARK ON FEB. 4, 2021



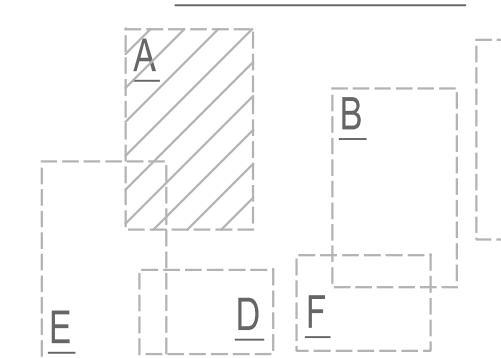
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SHEET KEY



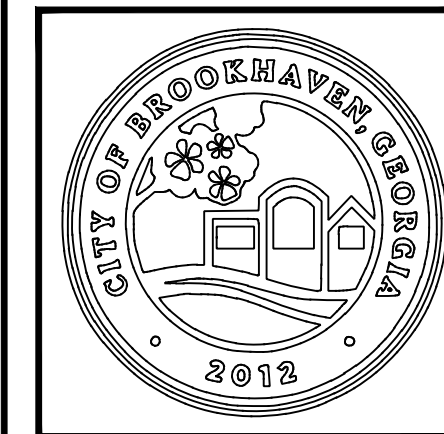
1 SIDEWALK CONNECTION A
1"=10'

2 SIDEWALK CONNECTION B
1"=10'

2021 SMALL TREE LOCATION
CPL LEAD DESIGNER FIELD LOCATED THE SMALL TREES ON SITE BY VISIT

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DRAWINGS SCHEDULE

No.	Date	Description
31	04/29	Multi-use Trail as Shown - Pre-Work Review
32	05/05	UGP - Community Green - City Council #1
33	05/14	UGP - Community Green - City Council #2
34	05/28	UGP - Community Green - City Council #3



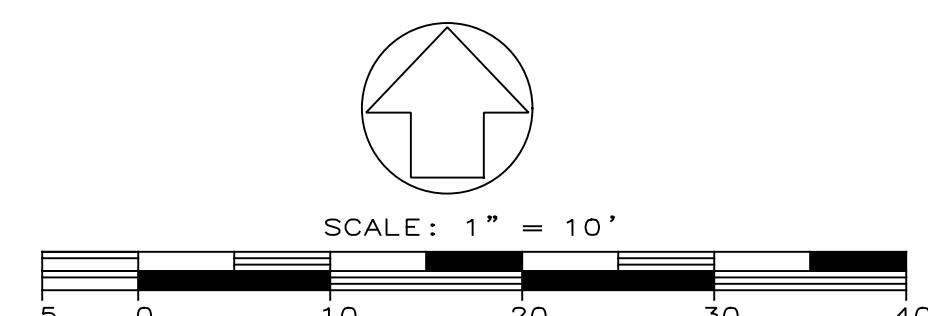
CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

DATE	DRAWN	CHECKED
03/03/21	GZ	MC
SCALE		
SHEET TITLE	DEMO AND TREE PROTECTION PLAN - COMMUNITY GREEN	

PROJECT NUMBER
15092.00

C3.2B

DRAWING NUMBER



Drawing Name: S:\Project\Brookhaven, C\Murphey Candler\0 Design\01 Job Info\CAD\C3 Series_MCP-Demo Plan.dwg Date last plotted: 5/28/2021 1:32 PM Date last accessed: 5/28/2021 2:15 PM Plotted By: Grace Zhang

GENERAL LAYOUT NOTES:

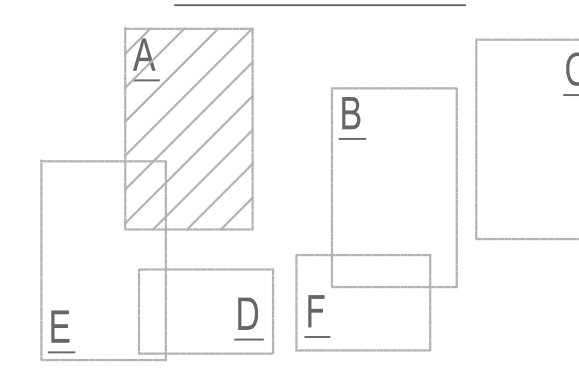
1. INSTALL JOINTS WHERE SHOWN. ALIGN ON WALLS, BUILDINGS, RADII, ETC. EVENLY SPACE BETWEEN ELEMENTS AS SHOWN. PROVIDE EXPANSION JOINTS BETWEEN CONCRETE PAVEMENT AND VERTICAL ELEMENTS (WALLS, CURBS, ETC.).
2. LAYOUT ALL CURVES SMOOTHLY WITH NO ABRUPT CHANGES AT TANGENT POINTS.
3. GENERAL CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL SLEEVES.
4. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
5. LAYOUT ALL ELEMENTS IN FIELD AND CONTACT OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE BEGINNING ANY CONSTRUCTION.
6. CONTRACTOR TO TAKE ALL PRECAUTIONS TO FIND AND AVOID SITE UTILITIES. ALL UTILITIES ARE NOT SHOWN ON DRAWING. VERIFY LOCATIONS AND CONSIDER WHEN ESTIMATING.
7. ALL PAVEMENT MARKING AND TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
8. ALL GRADE ELEVATIONS AND HORIZONTAL CONTROL TO BE SET FROM PROJECT BENCHMARK NOTED ON PLANS.

TREE NOTES:

1. SEE DEMO PLAN FOR TREE REMOVAL.
2. SPECIAL DETAIL WILL BE UTILIZED FOR SIDEWALK PAVEMENT OVER TREE ROOTS TO PROTECT REMAINING TREES. SEE DETAIL 5, C8.2A.

① CONCRETE TRAIL OVER ROOT ZONE, SEE DETAIL 4 / C8.2A

SHEET KEY



DRAWINGS SCHEDULE

No.	Date	Description
31	04/29	Multi-use Trail as Shown - Preboard Review
32	05/05	UGP - Community Green - City Council #1
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DATE	DRAWN	CHECKED
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LAYOUT PLAN
 COMMUNITY GREEN

PROJECT NUMBER	15092.00
DRAWING NUMBER	C4.2A

SIDEWALK CONNECTION
 DETAILS SEE SHEET C4.2B

③ BRIDGE

② SEAT WALL

① ④ STAGE PLAZA

③ EXPANSION JOINT

① CONCRETE SIDEWALK

IRRIGATION SLEEVE, TYP.
 3 TOTAL.

OUTLET, SEE
 ELECTRICAL DWG

PAVEMENT OVER TREE
 ROOTS, TYP.
 TOTAL 5 AREAS

LIMIT OF DISTURBANCE

CONCRETE STEP

RETAINING WALL, TYP.

CONCRETE STEP

SIDEWALK

EX. PAVILION

OUTLET, SEE
 ELECTRICAL DWG

CONCRETE
 SIDEWALK
 BID ALTERNATE -
 PERVIOUS
 CONCRETE

PARK RULE SIGN

EXPANSION JOINT

BENCH, TYP.

TRASH CAN, TYP.

CONCRETE PAVEMENT, TYP.
 BID ALTERNATE - PERVIOUS CONCRETE

BIKE RACK, TYP.

SWING BENCH, TYP.

EX. TREES, TYP.

EX. PAVILION

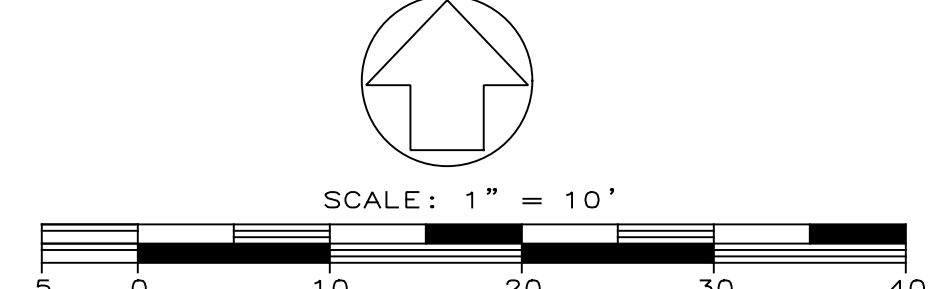
ADA PATH



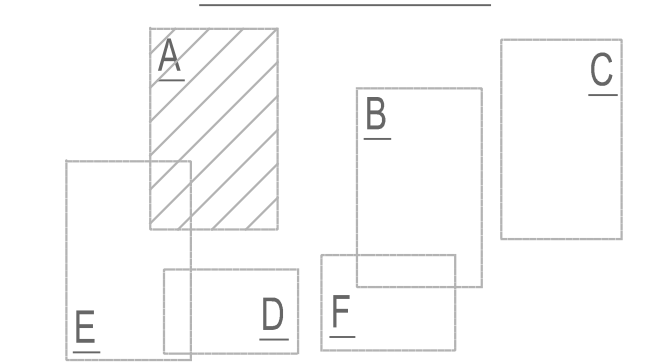
2021 SMALL TREE LOCATION
 CPL LEAD DESIGNER FIELD LOCATED THE SMALL TREES ON SITE BY VISIT

2016 SURVEY & 2019 UPDATED TREE SURVEY
 TERRAMARK LAND SURVEYING, INC.
 1306 BELLS FERRY ROAD
 MARIETTA, GEORGIA 30066
 PHONE NO. (770) 421-1927
 FAX NO. (770) 421-0552
 WWW.TERRAMARK.COM
 C. O. A. # LSF000810

NOTE:
 THE WRESTED VEGETATION
 AND 80% CONTOUR WERE
 SURVEYED IN BY
 TERRAMARK ON FEB. 4,
 2021



Drawing Name: S:\Project\Brookhaven, C\Murphey, Candler\0 Design\01 Job Info\CAD\C4 Series_LMCP Layout Plan.dwg
 Date last accessed: 5/28/2021 12:21 PM
 Date last plotted: 5/28/2021 3:04 PM
 Plotted By: Ge Grace Zhang



TREE NOTES:
 1. SEE DEMO PLAN FOR TREE REMOVAL.
 2. SPECIAL DETAIL WILL BE UTILIZED FOR SIDEWALK PAVEMENT OVER TREE ROOTS TO PROTECT REMAINING TREES. SEE DETAIL 5, C8.2A.

1 CONCRETE TRAIL OVER ROOT ZONE, SEE DETAIL 4 / C8.2A

GENERAL LAYOUT NOTES:
 1. INSTALL JOINTS WHERE SHOWN. ALIGN ON WALLS, BUILDINGS, RADII, ETC. EVENLY SPACE BETWEEN ELEMENTS AS SHOWN. PROVIDE EXPANSION JOINTS BETWEEN CONCRETE PAVEMENT AND VERTICAL ELEMENTS (WALLS, CURBS, ETC.).
 2. LAYOUT ALL CURVES SMOOTHLY WITH NO ABRUPT CHANGES AT TANGENT POINTS.
 3. GENERAL CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL SLEEVES.
 4. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
 5. LAYOUT ALL ELEMENTS IN FIELD AND CONTACT OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE BEGINNING ANY CONSTRUCTION.
 6. CONTRACTOR TO TAKE ALL PRECAUTIONS TO FIND AND AVOID SITE UTILITIES. ALL UTILITIES ARE NOT SHOWN ON DRAWING. VERIFY LOCATIONS AND CONSIDER WHEN ESTIMATING.
 7. ALL PAVEMENT MARKING AND TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
 8. ALL GRADE ELEVATIONS AND HORIZONTAL CONTROL TO BE SET FROM PROJECT BENCHMARK NOTED ON PLANS.



DRAWINGS SCHEDULE

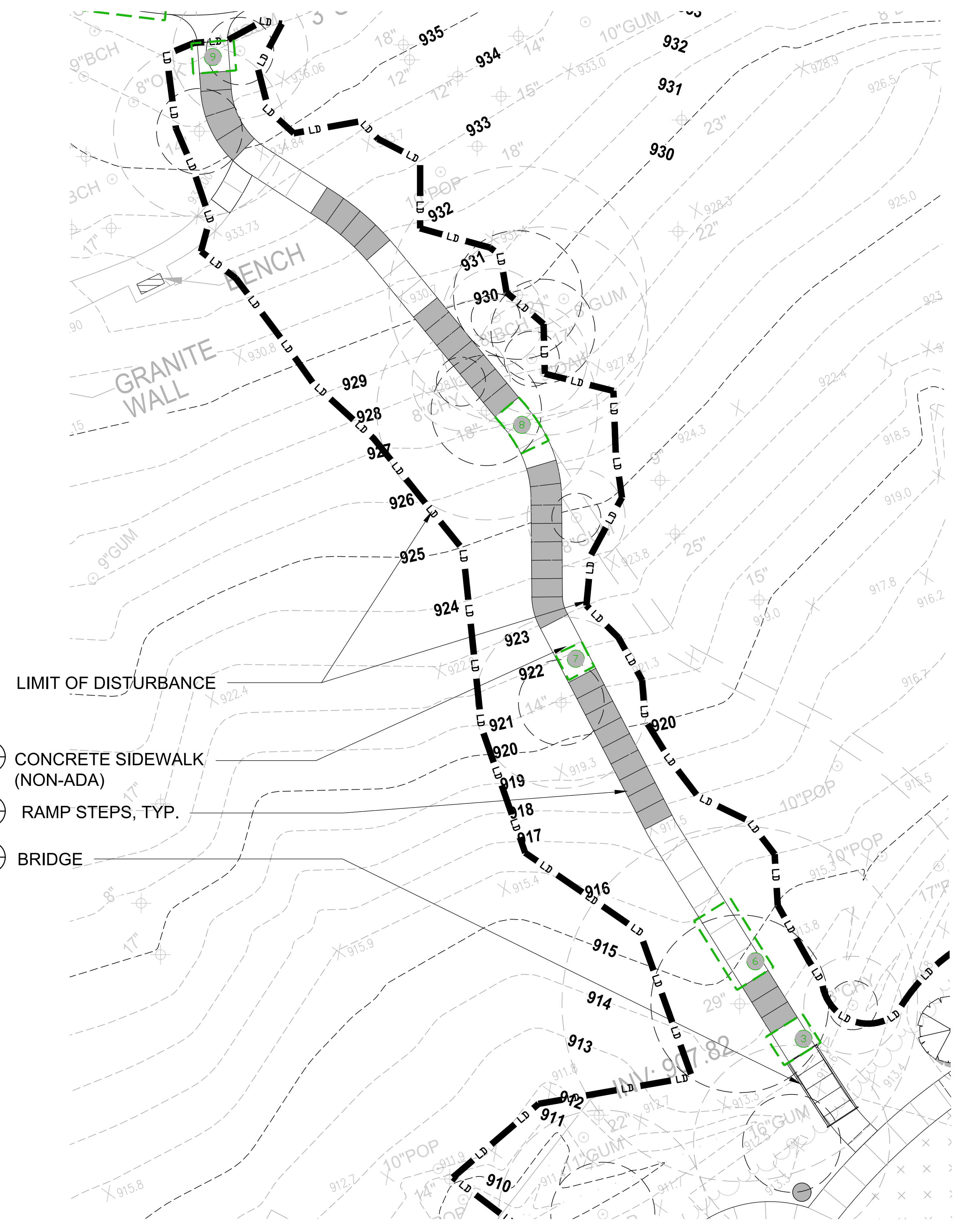
No.	Date	Description
31	04/29	Multi-Use Trail as Shown - Final/Revised
32	05/05	UGP - Community Green - City Council #1
33	05/14	UGP - Community Green - City Council #2
34	05/28	UGP - Community Green - City Council #3



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
 1551 W. NANCY CREEK DRIVE NE
 BROOKHAVEN, GEORGIA 30319

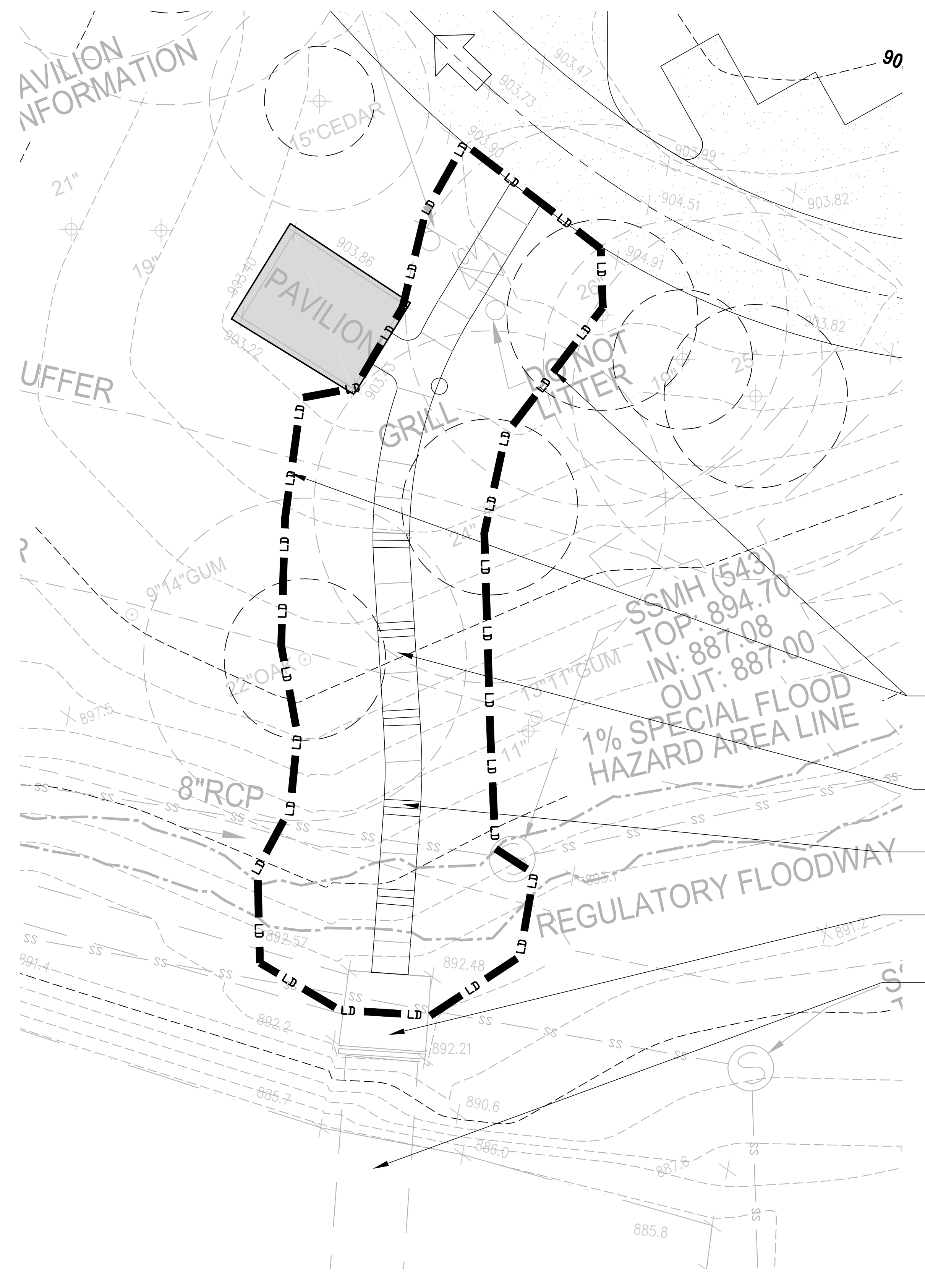
DATE	DRAWN	CHECKED
03/03/21	GZ	MC
SCALE		
SHEET TITLE		
LAYOUT PLAN COMMUNITY GREEN		

PROJECT NUMBER	15092.00
DRAWING NUMBER	C4.2B



- 1** CONCRETE SIDEWALK (NON-ADA)
- 2** RAMP STEPS, TYP.
- 3** BRIDGE

1 SIDEWALK CONNECTION A
 1"=10'



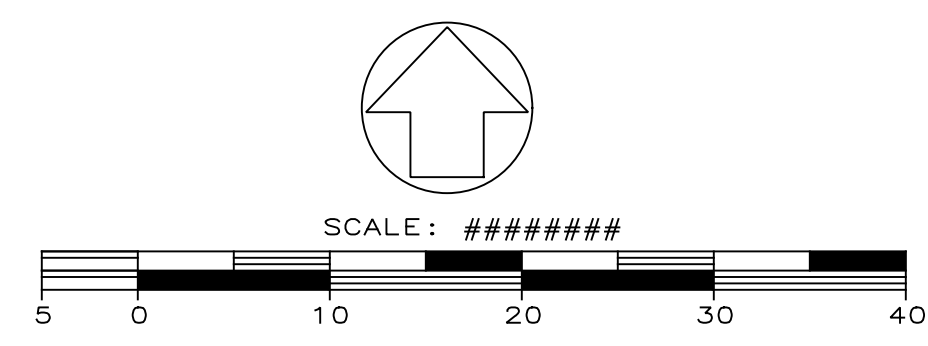
- 1** CONCRETE SIDEWALK (NON-ADA)
- 2** CONCRETE STEPS, TYP.
- 3** EXISTING CONCRETE PAD
- 4** EXISTING BRIDGE

2 SIDEWALK CONNECTION B
 1"=10'

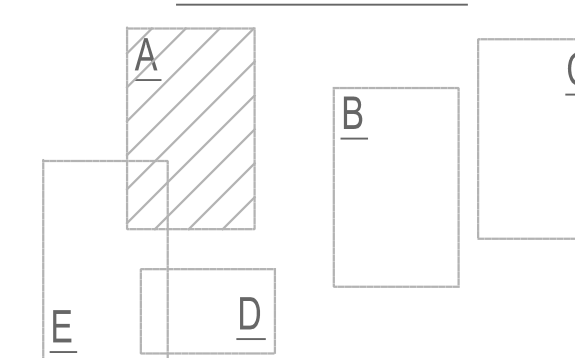
2021 SMALL TREE LOCATION
 CPL LEAD DESIGNER FIELD LOCATED THE SMALL TREES ON SITE BY VISIT

2016 SURVEY & 2019 UPDATED TREE SURVEY
 TERRAMARK LAND SURVEYING, INC.
 1306 BELLS FERRY ROAD
 MARIETTA, GEORGIA 30066
 PHONE NO. (770) 421-1927
 FAX NO. (770) 421-0552
 WWW.TERRAMARK.COM
 C. O. A. # LSF000810

NOTE:
 THE WRESTED VEGETATION AND 80% CONTOUR WERE SURVEYED IN BY TERRAMARK ON FEB. 4, 2021



Drawing Name: S:\Project\Brookhaven, C\Murphey, Candler\0 Design\01 Job Info\CAD\C4 Series_MCP_LayOut_Plan.dwg
 Date last plotted: 5/28/2021 12:21 PM
 Date last processed: 5/28/2021 3:08 PM
 Plotted By: GeGrace Zhang



TREE NOTES:
 1. NO SPECIMEN TREES ON SITE.
 2. SPECIAL DETAIL WILL BE UTILIZED FOR SIDEWALK PAVEMENT OVER TREE ROOTS. SEE DETAIL 4 / C8.2A

ADJUSTMENT NOTES:
 STAKING MAY BE SUBJECT TO SAME ADJUSTMENT IN THE FIELD AFTER STAKEOUT IS COMPLETE. ADJUSTMENT MAY BE MADE TO ACCOMMODATE EXISTING CONDITIONS ON SITE.

Point #	Northing	Easting
1	1423411.04	2249282.57
2	1423411.37	2249287.56
3	1423403.05	2249283.15
4	1423403.41	2249288.14
8	1423382.38	2249302.33
9	1423394.08	2249293.44
10	1423389.37	2249291.51
11	1423385.58	2249306.51
12	1423377.23	2249308.66
13	1423380.05	2249312.89
14	1423374.60	2249311.02
15	1423377.77	2249314.89
17	1423347.62	2249333.07
18	1423336.68	2249337.01
19	1423336.92	2249342.01
20	1423320.77	2249337.14
21	1423320.81	2249342.14
22	1423315.78	2249338.38
23	1423317.87	2249342.93
24	1423282.08	2249355.90

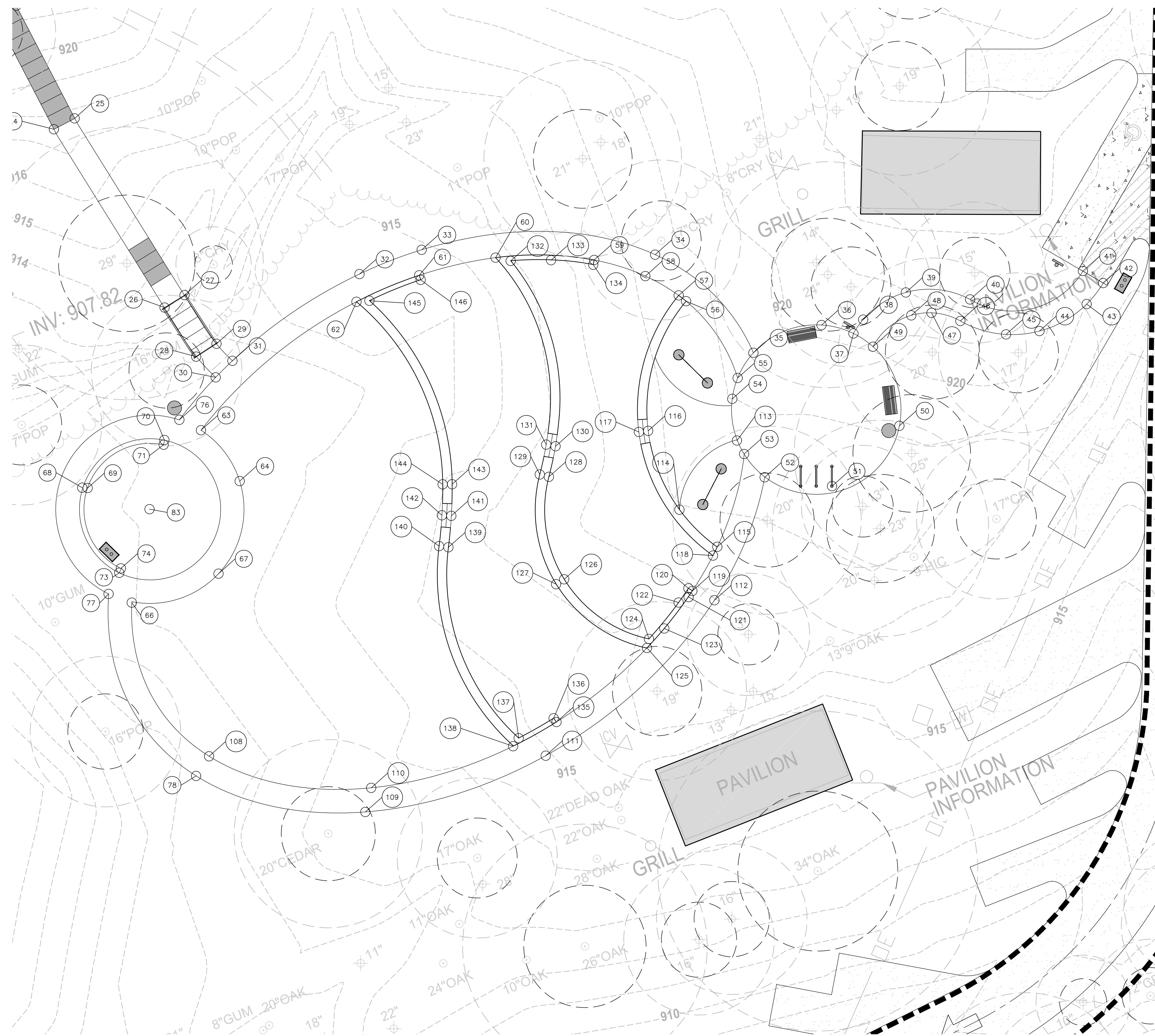
Point #	Northing	Easting
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26	1423246.88	2249377.75
27	1423249.52	2249381.99
28	1423236.54	2249384.26
29	1423239.27	2249388.45
30	1423229.96	2249389.96
31	1423233.48	2249393.52
32	1423251.91	2249420.52
33	1423257.07	2249433.74
34	1423256.03	2249483.35
35	1423235.18	2249504.24
36	1423241.08	2249518.70
37	1423239.29	2249525.49
38	1423242.23	2249527.56
39	1423248.00	2249536.63
40	1423246.51	2249550.28
41	1423252.56	2249574.27
42	1423249.99	2249578.56
43	1423245.54	2249575.06
44	1423239.80	2249565.02

Point #	Northing	Easting
45	1423239.09	2249557.93
46	1423241.94	2249548.22
47	1423243.67	2249542.09
48	1423243.13	2249537.78
49	1423236.47	2249529.65
50	1423219.67	2249535.26
51	1423206.04	2249511.88
52	1423208.72	2249506.62
53	1423213.68	2249502.26
54	1423225.40	2249499.75
55	1423229.82	2249500.89
56	1423246.15	2249489.93
57	1423247.38	2249488.35
58	1423251.48	2249481.27
59	1423254.91	2249470.40
60	1423255.40	2249449.44
61	1423251.65	2249433.22
62	1423246.02	2249419.88
63	1423218.72	2249386.84
64	1423207.92	2249395.06

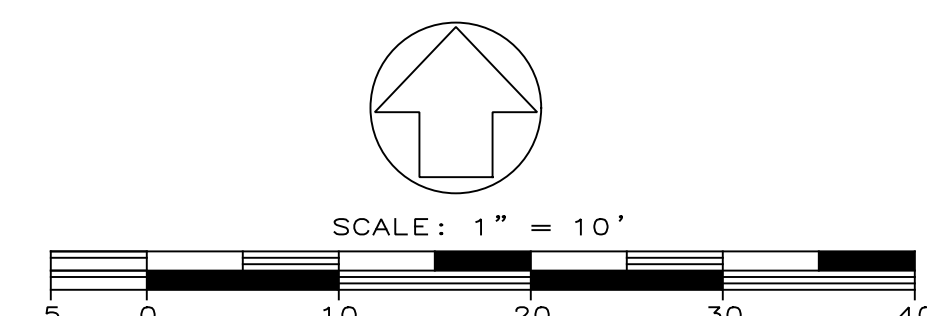
Point #	Northing	Easting
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67	1423187.61	2249383.14
68	1423214.94	2249385.27
69	1423215.48	2249384.45
70	1423213.30	2249384.12
71	1423213.65	2249383.28
73	1423189.27	2249367.89
74	1423188.28	2249372.80
76	1423220.06	2249381.58
77	1423185.00	2249367.32
78	1423145.27	2249385.79
83	1423188.08	2249373.78
108	1423142.82	2249390.22
109	1423137.60	2249421.77
110	1423142.73	2249423.01
111	1423149.56	2249460.10
112	1423182.60	2249495.95
113	1423207.22	2249506.34
114	1423211.70	2249502.04
115	1423193.96	2249496.57

Point #	Northing	Easting
116	1423204.79	2249486.59
117	1423203.10	2249485.28
118	1423192.09	2249495.65
119	1423184.58	2249491.27
120	1423185.13	2249490.43
121	1423183.27	2249490.47
122	1423182.11	2249488.34
123	1423176.59	2249485.30
124	1423174.38	2249482.03
125	1423172.46	2249481.62
126	1423187.05	2249464.02
127	1423186.01	2249462.31
128	1423208.83	2249460.77
129	1423209.34	2249458.84
130	1423221.80	2249462.97
131	1423221.96	2249460.98
132	1423254.71	2249452.65
133	1423254.96	2249458.50
134	1423253.89	2249470.20
135	1423156.72	2249462.39

Point #	Northing	Easting
136	1423157.52	2249461.78
138	1423151.58	2249453.18
139	1423193.85	2249439.42
140	1423194.10	2249437.43
141	1423200.53	2249440.03
142	1423200.65	2249438.04
143	1423207.24	2249440.20
144	1423207.22	2249438.20
145	1423246.24	2249422.63
146	1423250.67	2249433.52
147	1423017.93	2249284.05
148	1423020.99	2249280.07
149	1423003.01	2249269.09
150	1423002.81	2249274.76
151	1423000.54	2249267.79
152	1422999.73	2249264.95
153	1423000.44	2249263.80
154	1422998.18	2249261.19
155	1422994.31	2249263.57
156	1422992.38	2249264.42

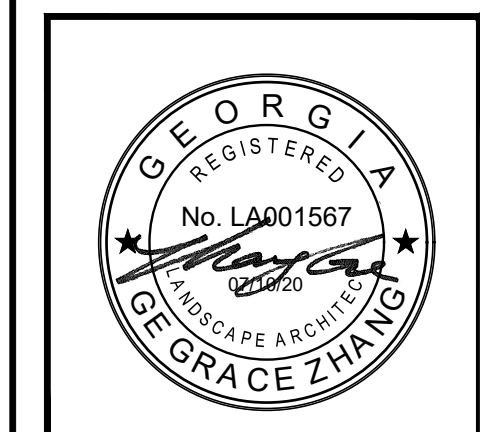


2016 SURVEY & 2019 UPDATED TREE SURVEY
 TERRAMARK LAND SURVEYING, INC.
 1386 BELLS FERRY ROAD
 MARIETTA, GEORGIA 30066
 PHONE NO. (770) 421-1927
 FAX NO. (770) 421-0552
 WWW.TERRAMARK.COM
 C. O. A. # LSF000810



DRAWINGS SCHEDULE

No.	Date	Description
11	08/17	LSP - Submittal - City Comment #2
12	08/17	LSP - Submittal - City Comment #2
13	10/13	LSP - Final Planing - City Comment #1
14	10/18	LSP - Natural/Play Area Final Change #1
15	10/18	Multi-use Trail on Open - Redwood Review
16	11/18	LSP - Final Planing - City Comment #2
17	11/20	LSP - Comments Open - City Comment #2
18	11/20	LSP - Comments Open - City Comment #2
19	11/20	WORTHINGTONS/DEVELOPER BUILD

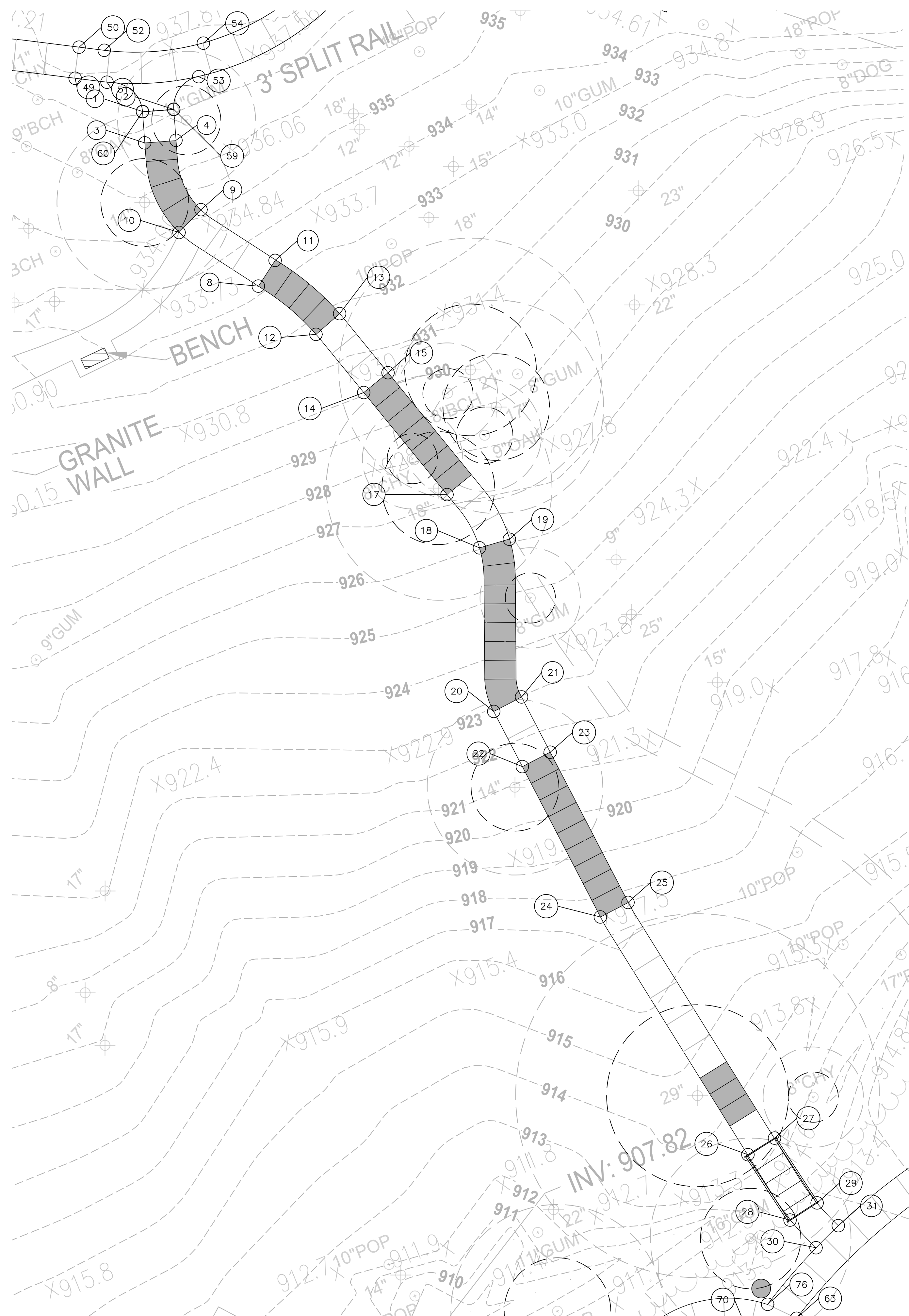


CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
 1551 W. NANCY CREEK DRIVE NE
 BROOKHAVEN, GEORGIA 30319

DATE	DRAWN	CHECKED
04/23/20	BM	GZ
SCALE		
SHEET TITLE		

COMMUNITY GREEN STAKING PLAN

PROJECT NUMBER	15092.00
CAD	C4.2C
DRAWING NUMBER	



1 SIDEWALK CONNECTION A
1"=10'

GEORGIA811
Utilities Protection Center, Inc.
1-800-282-7411
Know what's below.
Call before you dig.

2016 SURVEY & 2019 UPDATED TREE SURVEY
TERRAMARK LAND SURVEYING, INC.
1366 BELLS FERRY ROAD
MARIETTA, GEORGIA 30066
PHONE NO. (770) 421-1927
FAX NO. (770) 421-0552
WWW.TERRAMARK.COM
C. O. A. LSF000810

Point #	Northing	Easting
1	1423411.04	2249282.57
2	1423411.37	2249287.56
3	1423403.05	2249283.15
4	1423403.41	2249288.14
8	1423382.38	2249302.33
9	1423394.08	2249293.44
10	1423389.37	2249291.51
11	1423385.58	2249306.51
12	1423377.23	2249308.66
13	1423380.05	2249312.89
14	1423374.60	2249311.02
15	1423377.77	2249314.89
17	1423347.62	2249333.07
18	1423336.68	2249337.01
19	1423336.92	2249342.01
20	1423320.77	2249337.14
21	1423320.81	2249342.14
22	1423315.78	2249338.38
23	1423317.87	2249342.93
24	1423282.08	2249355.90

Point #	Northing	Easting
136	1423157.52	2249461.78
138	1423151.58	2249453.18
139	1423193.85	2249439.42
140	1423194.10	2249437.43
141	1423200.53	2249440.03
142	1423200.65	2249438.04
143	1423207.24	2249440.20
144	1423207.22	2249438.20
145	1423246.24	2249422.63
146	1423250.67	2249433.52
147	1423017.93	2249284.05
148	1423020.99	2249280.07
149	1423003.01	2249269.09
150	1423002.81	2249274.76
151	1423000.54	2249267.79
152	1422999.73	2249264.95
153	1423000.44	2249263.80
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156	1422992.38	2249264.42

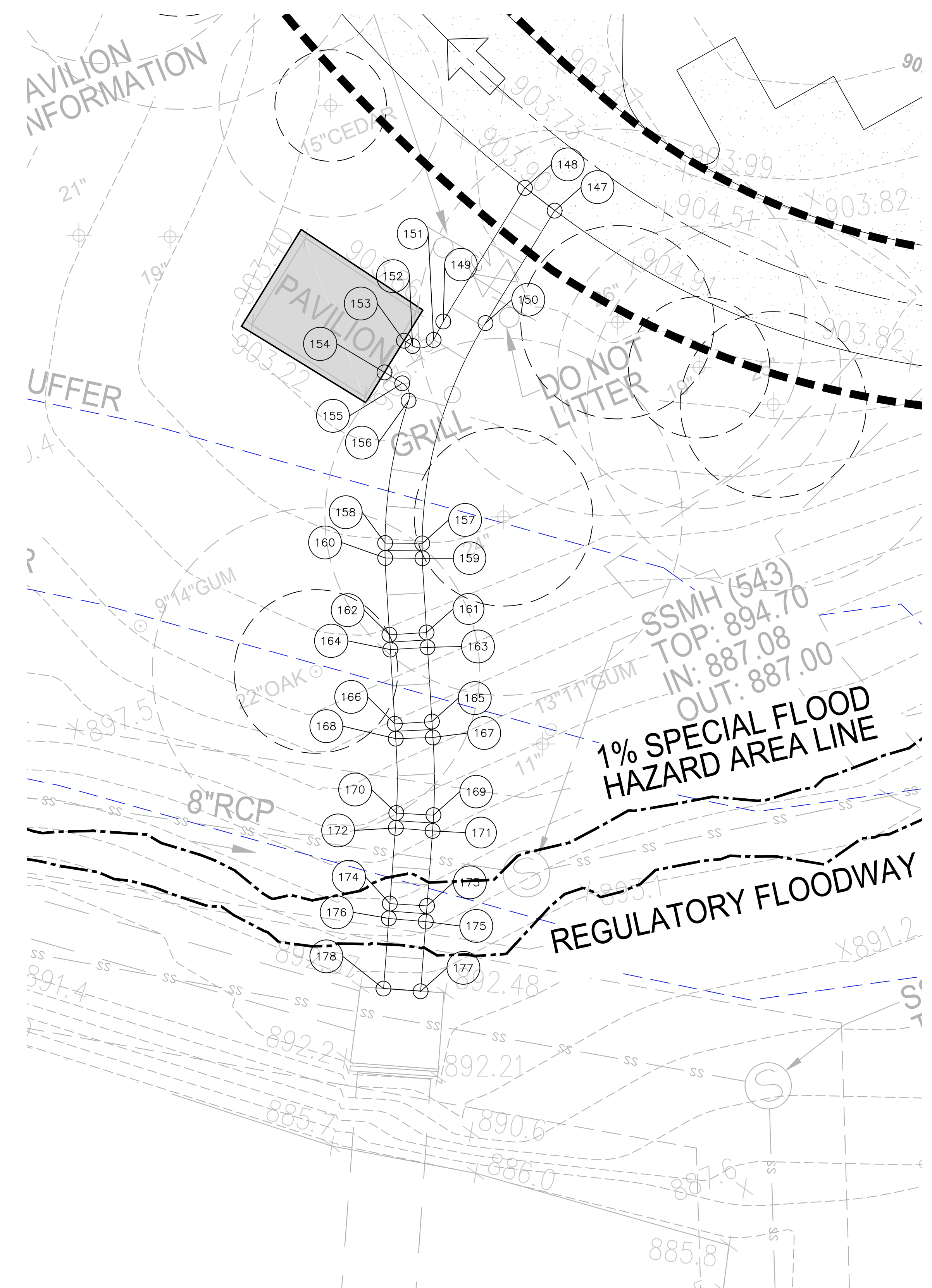
Point #	Northing	Easting
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178	1422913.33	2249261.05

Point #	Northing	Easting
25	1423286.77	2249359.10
26	1423246.88	2249377.75
27	1423249.52	2249381.99
28	1423236.54	2249384.26
29	1423239.27	2249388.45
30	1423229.96	2249389.96
31	1423233.48	2249393.52
32	1423251.91	2249420.52
33	1423257.07	2249433.74
34	1423256.03	2249483.35
35	1423235.18	2249504.24
36	1423248.00	2249518.70
37	1423239.29	2249525.49
38	1423242.23	2249527.56
39	1423249.99	2249578.56
40	1423246.51	2249550.28
41	1423252.56	2249574.27
42	1423249.99	2249578.56
43	1423245.54	2249575.06
44	1423239.80	2249565.02

Point #	Northing	Easting
157	1422969.23	2249266.34
158	1422968.93	2249261.35
159	1422966.42	2249266.51
160	1422966.12	2249261.52
161	1422958.43	2249266.99
162	1422958.13	2249262.00
163	1422956.44	2249267.11
164	1422956.14	2249262.12
165	1422948.45	2249267.60
166	1422948.15	2249262.60
167	1422946.45	2249267.72
168	1422946.15	2249262.72
169	1422938.45	2249267.85
170	1422938.61	2249262.85
171	1422936.45	2249267.76
172	1422936.61	2249262.79
173	1422928.46	2249267.18
174	1422928.83	2249262.20
175	1422926.47	2249267.04
176	1422926.84	2249262.05

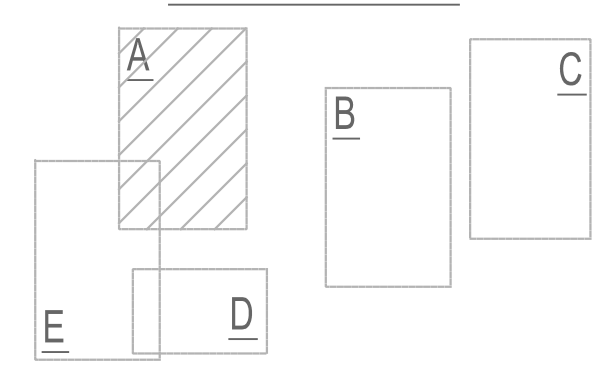
TREE NOTES:
1. NO SPECIMEN TREES ON SITE.
2. SPECIAL DETAIL WILL BE UTILIZED FOR SIDEWALK PAVEMENT OVER TREE ROOTS.

ADJUSTMENT NOTES:
STAKING MAY BE SUBJECT TO SAME ADJUSTMENT IN THE FIELD AFTER STAKEOUT IS COMPLETE. ADJUSTMENT WILL BE MADE TO ACCOMMODATE EXISTING CONDITIONS ON SITE.



2 SIDEWALK CONNECTION B
1"=10'

SHEET KEY



ARCHITECTURE
ENGINEERING
PLANNING
CPLteam.com



No.	Date	Description
11	08/17	LSP - Submittal - City Comment #2
12	08/17	LSP - Submittal - City Comment #1
13	10/13	LSP - Final Planing - City Comment #1
14	10/18	LSP - Natural Area Field Change
15	10/18	Multi-use Trail on Open - Fieldwork Review
16	11/18	LSP - Final Planing - City Comment #2
17	11/20	LSP - Comments Open - City Comment #2
18	11/20	LSP - Comments Open - City Comment #1
19	11/20	WORTHINGTON PARK DEVELOPMENT

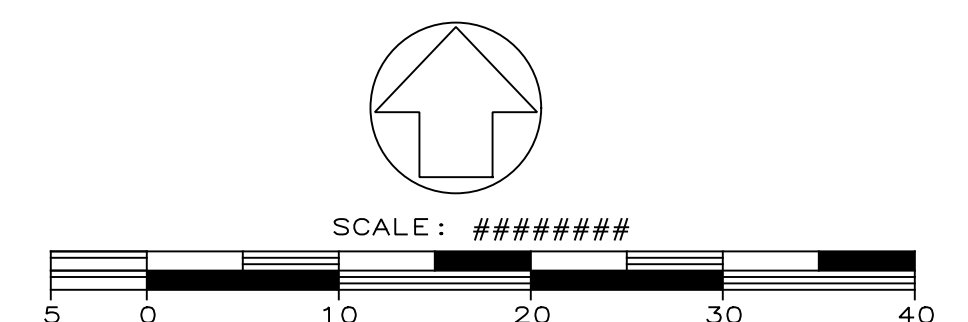


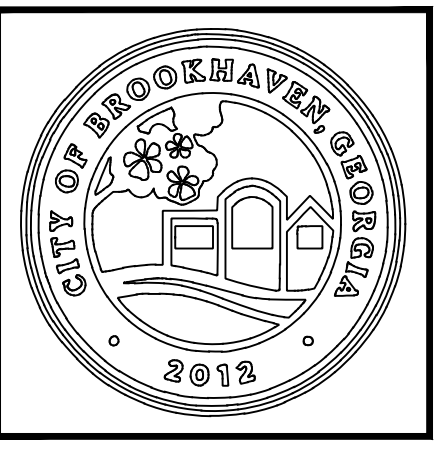
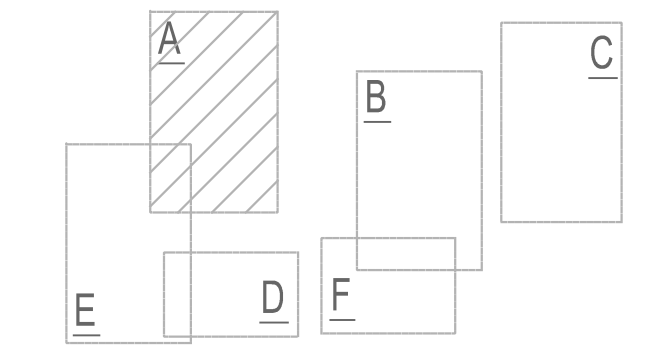
CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

DATE	DRAWN	CHECKED
04/23/20	BM	GZ

COMMUNITY GREEN
STAKING PLAN

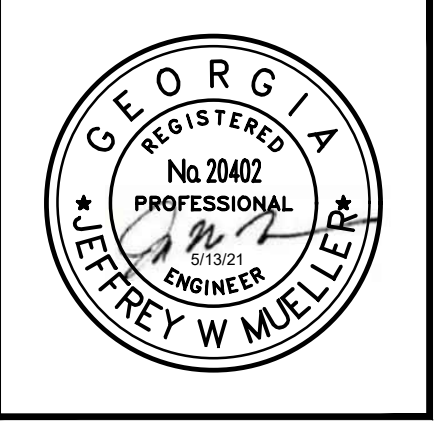
PROJECT NUMBER 15092.00
C4.2D
DRAWING NUMBER





DRAWINGS SCHEDULE

No.	Date	Description
31	04/29	Multi-Use Trail as Shown - Pre-Submittal Review
32	05/05	UGP - Community Green - City Council # 2
33	05/14	UGP - Community Green - City Council # 3
34	05/28	UGP - Community Green - City Council # 4



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
 1551 W. NANCY CREEK DRIVE NE
 BROOKHAVEN, GEORGIA 30319

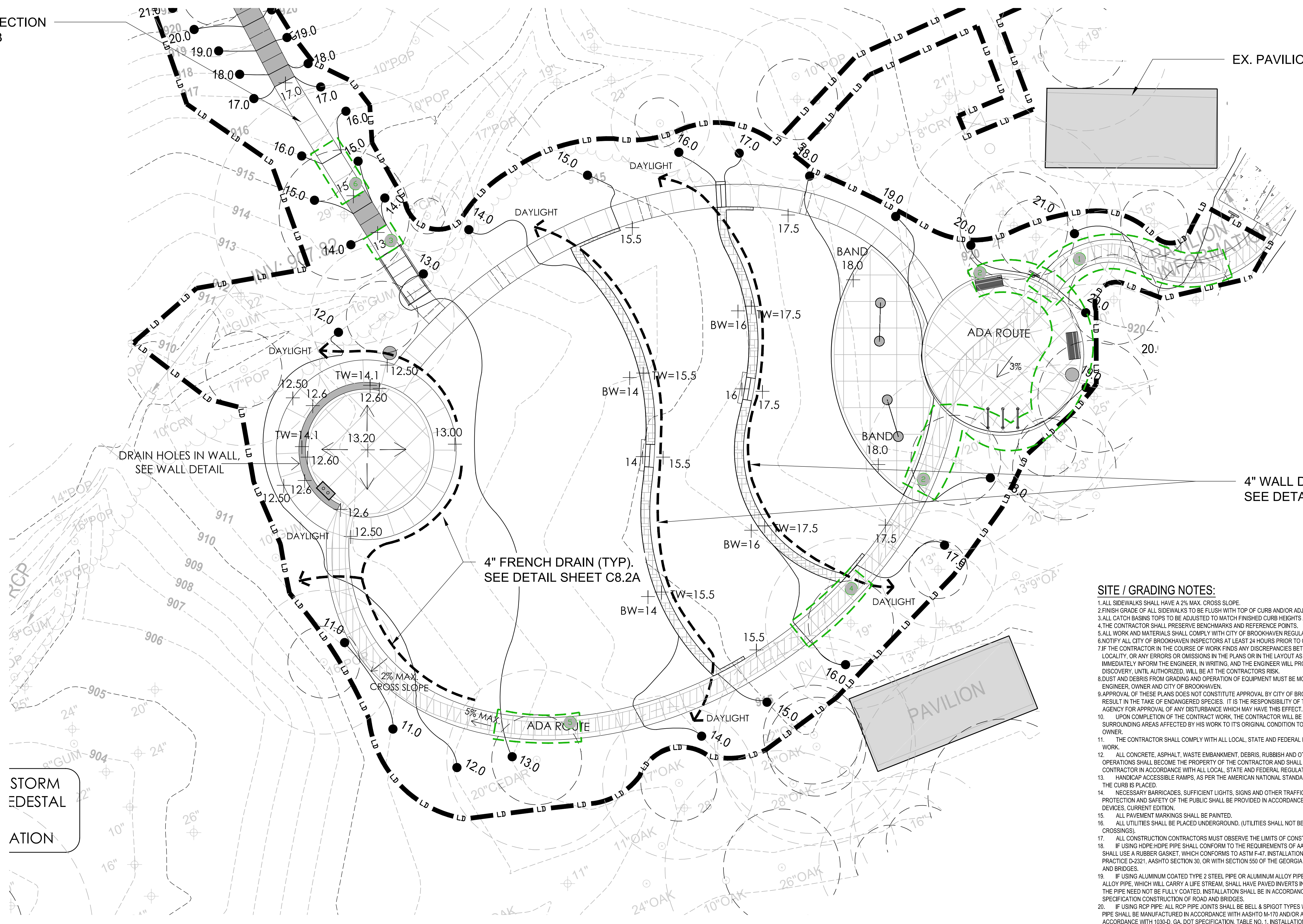
DATE	DRAWN	CHECKED
03/03/21	GZ	MC

SCALE
 SHEET TITLE
GRADING AND DRAINAGE PLAN
COMMUNITY GREEN

PROJECT NUMBER	15092.00
SHEET NUMBER	C5.2A
DRAWING NUMBER	

SIDEWALK CONNECTION
 SEE SHEET C5.2B

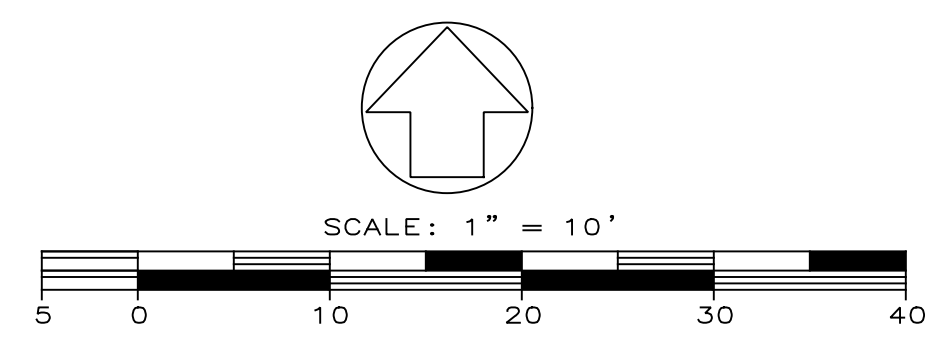
EX. PAVILION



SITE / GRADING NOTES:

1. ALL SIDEWALKS SHALL HAVE A 2% MAX. CROSS SLOPE.
2. FINISH GRADE OF ALL SIDEWALKS TO BE FLUSH WITH TOP OF CURB AND/OR ADJACENT FINISHED PAVEMENT.
3. ALL CATCH BASINS TOPS TO BE ADJUSTED TO MATCH FINISHED CURB HEIGHTS AND FINISHED PAVEMENT.
4. THE CONTRACTOR SHALL PRESERVE BENCHMARKS AND REFERENCE POINTS.
5. ALL WORK AND MATERIALS SHALL COMPLY WITH CITY OF BROOKHAVEN REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
6. NOTIFY ALL CITY OF BROOKHAVEN INSPECTORS AT LEAST 24 HOURS PRIOR TO CONSTRUCTION.
7. IF THE CONTRACTOR IN THE COURSE OF WORK FINDS ANY DISCREPANCIES BETWEEN THE PLANS AND THE PHYSICAL CONDITIONS OF THE LOCALITY, OR ANY ERRORS OR OMISSIONS IN THE PLANS OR IN THE LAYOUT AS GIVEN BY THE ENGINEER, IT SHALL BE HIS DUTY TO IMMEDIATELY INFORM THE ENGINEER, IN WRITING, AND THE ENGINEER WILL PROMPTLY VERIFY THE SAME. ANY WORK DONE AFTER SUCH A DISCOVERY, UNLESS AUTHORIZED, WILL BE AT THE CONTRACTOR'S RISK.
8. DUST AND DEBRIS FROM GRADING AND OPERATION OF EQUIPMENT MUST BE MONITORED AND MINIMIZED TO LEVELS ACCEPTABLE TO THE ENGINEER, OWNER AND CITY OF BROOKHAVEN.
9. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CITY OF BROOKHAVEN OF ANY LAND DISTURBING ACTIVITIES WHICH MAY RESULT IN THE TAKE OF ENDANGERED SPECIES. IT IS THE RESPONSIBILITY OF THE OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY DISTURBANCE WHICH MAY HAVE THIS EFFECT.
10. UPON COMPLETION OF THE CONTRACT WORK, THE CONTRACTOR WILL BE REQUIRED TO RESTORE THE STAGING AREA AND SURROUNDING AREAS AFFECTED BY HIS WORK TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF AND AT NO ADDITIONAL COST TO THE OWNER.
11. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS THAT ARE PERTINENT TO THIS WORK.
12. ALL CONCRETE, ASPHALT, WASTE EMBANKMENT, DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
13. HANDICAP ACCESSIBLE RAMPS, AS PER THE AMERICAN NATIONAL STANDARDS INSTITUTE, SHALL BE INSTALLED AT THE SAME TIME AS THE CURBS IS PLACED.
14. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL DEVICES AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
15. ALL PAVEMENT MARKINGS SHALL BE PAINTED.
16. ALL UTILITIES SHALL BE PLACED UNDERGROUND, UTILITIES SHALL NOT BE LOCATED IN ANY DRAINAGE EASEMENTS EXCEPT FOR CROSSINGS.
17. ALL CONSTRUCTION CONTRACTORS MUST OBSERVE THE LIMITS OF CONSTRUCTION OR DISTURBANCE AS SHOWN.
18. IF USING HOPEFIRE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-204 AND AASHTO MPT, TYPE S&D. CONNECTION SHALL USE A RUBBER GASKET, WHICH CONFORMS TO ASTM F-47. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM RECOMMENDED PRACTICE D-2321, AASHTO SECTION 30, OR WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATION CONSTRUCTION OF ROAD AND BRIDGES.
19. IF USING ALUMINUM COATED TYPE 2 STEEL PIPE OR ALUMINUM ALLOY PIPE, ALL ALUMINUM COATED TYPE 2 STEEL PIPE OR ALUMINUM ALLOY PIPE, WHICH WILL CARRY A LIFE STREAM, SHALL HAVE PAVED INVERTS IN ACCORDANCE WITH AASHTO M-190, TYPE C, EXCEPT THAT THE PIPE NEED NOT BE FULLY COATED. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATION CONSTRUCTION OF ROAD AND BRIDGES.
20. IF USING ROP PIPE, ALL ROP PIPE, JOINTS SHALL BE BELL & SPIGOT TYPES WITH RUBBER GASKET CONFORMING TO ASTM C-443. THE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AASHTO M-170 AND/OR ASTM C-76. CLASS OF PIPE AND WALL THICKNESS SHALL BE IN ACCORDANCE WITH 1030-D, GA. DOT SPECIFICATION, TABLE NO. 1. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS CONSTRUCTION OF ROAD AND BRIDGES.
21. A SEPARATE BUILDING PERMIT SHALL BE OBTAINED FOR ALL RETAINING WALL, WHICH EITHER EXCEEDS 4 FEET IN HEIGHT OR WHICH HAS A BACKFILL SLOPE GREATER THAN 1 FOOT RISE IN 3 FEET HORIZONTAL AND FOR EACH DETENTION POND WALL (DAM) IN ACCORDANCE WITH CITY OF BROOKHAVEN CONSTRUCTION CODE. A CERTIFICATE OF COMPLETION SHALL BE ISSUED BY CITY OF BROOKHAVEN BUILDING INSPECTIONS SECTION FOR ALL WALLS PERTINENT TO THE PROJECT PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR ANY USABLE STRUCTURE ON THE SITE OR PRIOR TO APPROVAL OF THE FINAL SUBDIVISION PLAT AS APPLICABLE.
22. ALL PAVEMENT TO HAVE 2% MIN. SLOPES FOR POSITIVE DRAINAGE.

CONCRETE TRAIL OVER ROOT ZONE,
 SEE DETAIL 4 / C8.2A



2021 SMALL TREE LOCATION
 CPL LEAD DESIGNER FIELD LOCATED THE SMALL TREES ON SITE BY VISIT

2016 SURVEY & 2019 UPDATED TREE SURVEY
 TERRAMARK LAND SURVEYING, INC.
 1396 BELLS FERRY ROAD
 MARIETTA, GEORGIA 30066
 PHONE NO. (770) 421-1927
 FAX NO. (770) 421-0552
 WWW.TERRAMARK.COM
 C. O. A. # LSF000810

NOTE:
 THE WRESTED VEGETATION
 AND 80% CONTOUR WERE
 SURVEYED IN BY
 TERRAMARK ON FEB. 4,
 2021

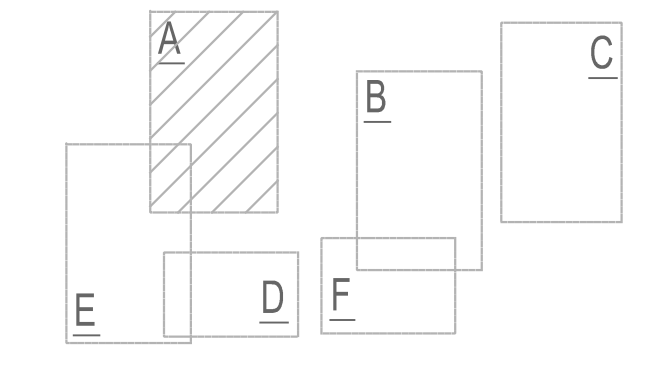
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 Utilities Protection Center, Inc.
 1-800-282-7411
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 Call before you dig.

Drawing Name: S:\Project\Brookhaven, C\Murphey, Candler\0 Design\01 Job Info\CAD\C5 Series_MCP\Grading and Drainage Planning
 Date last accessed: 5/28/2021 12:21 PM
 Date last plotted: 5/28/2021 3:09 PM
 Plotted By: Grace Zhong

SITE / GRADING NOTES:

1. ALL SIDEWALKS SHALL HAVE A 2% MAX. CROSS SLOPE.
2. FINISH GRADE OF ALL SIDEWALKS TO BE FLUSH WITH TOP OF CURB AND/OR FINISHED PAVEMENT.
3. ALL CATCH BASIN TOPS TO BE ADJUSTED TO MATCH FINISHED CURB HEIGHTS AND FINISHED PAVEMENT.
4. THE CONTRACTOR SHALL PRESERVE BENCHMARKS AND REFERENCE POINTS.
5. ALL WORK AND MATERIALS SHALL COMPLY WITH CITY OF BROOKHAVEN REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
6. NOTIFY ALL CITY OF BROOKHAVEN INSPECTORS AT LEAST 24 HOURS PRIOR TO CONSTRUCTION.
7. IF THE CONTRACTOR IN THE COURSE OF WORK FINDS ANY DISCREPANCIES BETWEEN THE PLANS AND THE PHYSICAL CONDITIONS OF THE LOCALITY, OR ANY ERRORS OR OMISSIONS IN THE PLANS OR IN THE LAYOUT AS GIVEN BY THE ENGINEER, IT SHALL BE HIS DUTY TO IMMEDIATELY INFORM THE ENGINEER, IN WRITING, AND THE ENGINEER WILL PROMPTLY VERIFY THE SAME. ANY WORK DONE AFTER SUCH A DISCOVERY, UNTIL AUTHORIZED, WILL BE AT THE CONTRACTORS RISK.
8. DUST AND DEBRIS FROM GRADING AND OPERATION OF EQUIPMENT MUST BE MONITORED AND MINIMIZED TO LEVELS ACCEPTABLE TO THE ENGINEER, OWNER AND CITY OF BROOKHAVEN.
9. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CITY OF BROOKHAVEN OF ANY LAND DISTURBING ACTIVITIES WHICH MAY RESULT IN THE TAKE OF ENDANGERED SPECIES. IT IS THE RESPONSIBILITY OF THE OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY DISTURBANCE WHICH MAY HAVE THIS EFFECT.
10. THE TRAFFIC CONTROL DEVICES MUST COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION.
11. UPON COMPLETION OF THE CONTRACT WORK, THE CONTRACTOR WILL BE REQUIRED TO RESTORE THE STAGING AREA AND SURROUNDING AREAS AFFECTED BY HIS WORK TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF AND AT NO ADDITIONAL COST TO THE OWNER.
12. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS THAT ARE PERTINENT TO THIS WORK.
13. ALL CONCRETE, ASPHALT, WASTE EMBANKMENT, DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
14. HANDICAP ACCESSIBLE RAMPS, AS PER THE AMERICAN NATIONAL STANDARDS INSTITUTE, SHALL BE INSTALLED AT THE SAME TIME AS THE CURB IS PLACED.
15. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL DEVICES AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
16. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN ENTERING MANHOLES, PIPES OR OTHER STRUCTURES SHOWN ON THE PLANS. AT A MINIMUM, THESE PIPES AND STRUCTURES SHALL BE PROPERLY VENTILATED.
17. ALL PAVEMENT MARKINGS SHALL BE PAINTED.
18. ALL UTILITIES SHALL BE PLACED UNDERGROUND. (UTILITIES SHALL NOT BE LOCATED IN ANY DRAINAGE EASEMENTS EXCEPT FOR CROSSINGS).
19. ALL CONSTRUCTION CONTRACTORS MUST OBSERVE THE LIMITS OF CONSTRUCTION OR DISTURBANCE AS SHOWN.
20. IF USING HDPE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-254 AND AASHTO MPT, TYPE 340. CONNECTION SHALL USE A RUBBER GASKET, WHICH CONFORMS TO ASTM F-47. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM RECOMMENDED PRACTICE D-2321. AASHTO SECTION 30, OR WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATION CONSTRUCTION OF ROAD AND BRIDGES.
21. IF USING HDPE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-190, TYPE C, EXCEPT THAT THE PIPE NEED NOT BE FULLY COATED. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATION CONSTRUCTION OF ROAD AND BRIDGES.
22. IF USING RCP PIPE: ALL RCP PIPE JOINTS SHALL BE BELL & SPIGOT TYPES WITH RUBBER GASKET CONFORMING TO ASTM C-443. THE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AASHTO M-170 AND/OR ASTM C-76. CLASS OF PIPE AND WALL THICKNESS SHALL BE IN ACCORDANCE WITH 1030-D, GA. DOT SPECIFICATION, TABLE NO. 1. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS CONSTRUCTION OF ROAD AND BRIDGES.
23. A SEPARATE BUILDING PERMIT SHALL BE OBTAINED FOR ALL RETAINING WALL (WHICH EITHER EXCEEDS 4 FEET IN HEIGHT OR WHICH HAS A BACKFILL SLOPE GREATER THAN 1 FOOT RISE IN 3 FEET HORIZONTAL) AND FOR EACH DETENTION POND WALL (DAM) IN ACCORDANCE WITH CITY OF BROOKHAVEN CONSTRUCTION CODE. A CERTIFICATE OF COMPLETION SHALL BE ISSUED BY CITY OF BROOKHAVEN BUILDING INSPECTIONS SECTION FOR ALL WALLS PERTINENT TO THE PROJECT PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR ANY USABLE STRUCTURE ON THE SITE OR PRIOR TO APPROVAL OF THE FINAL SUBDIVISION PLAT AS APPLICABLE.
24. ALL PAVEMENT TO HAVE 2% MIN. SLOPES FOR POSITIVE DRAINAGE.

SHEET KEY



ARCHITECTURE
ENGINEERING
PLANNING
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DRAWINGS SCHEDULE

No.	Date	Description
31	04/29	Multi-use Trail as Shown - Preboard Review
32	05/05	UPL - Community Green - City Council #
33	05/14	UPL - Community Green - City Council #
34	05/28	UPL - Community Green - City Council #



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

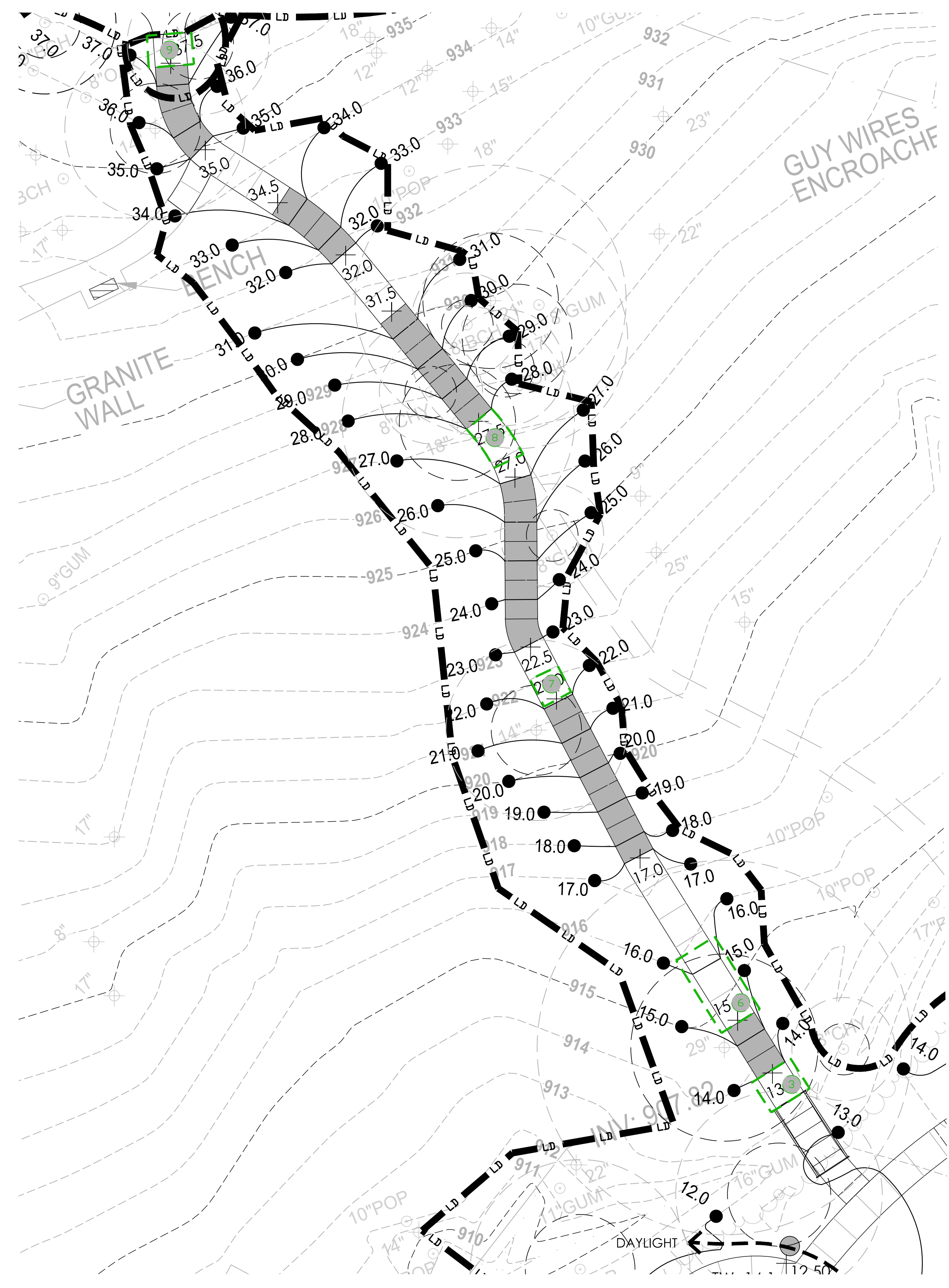
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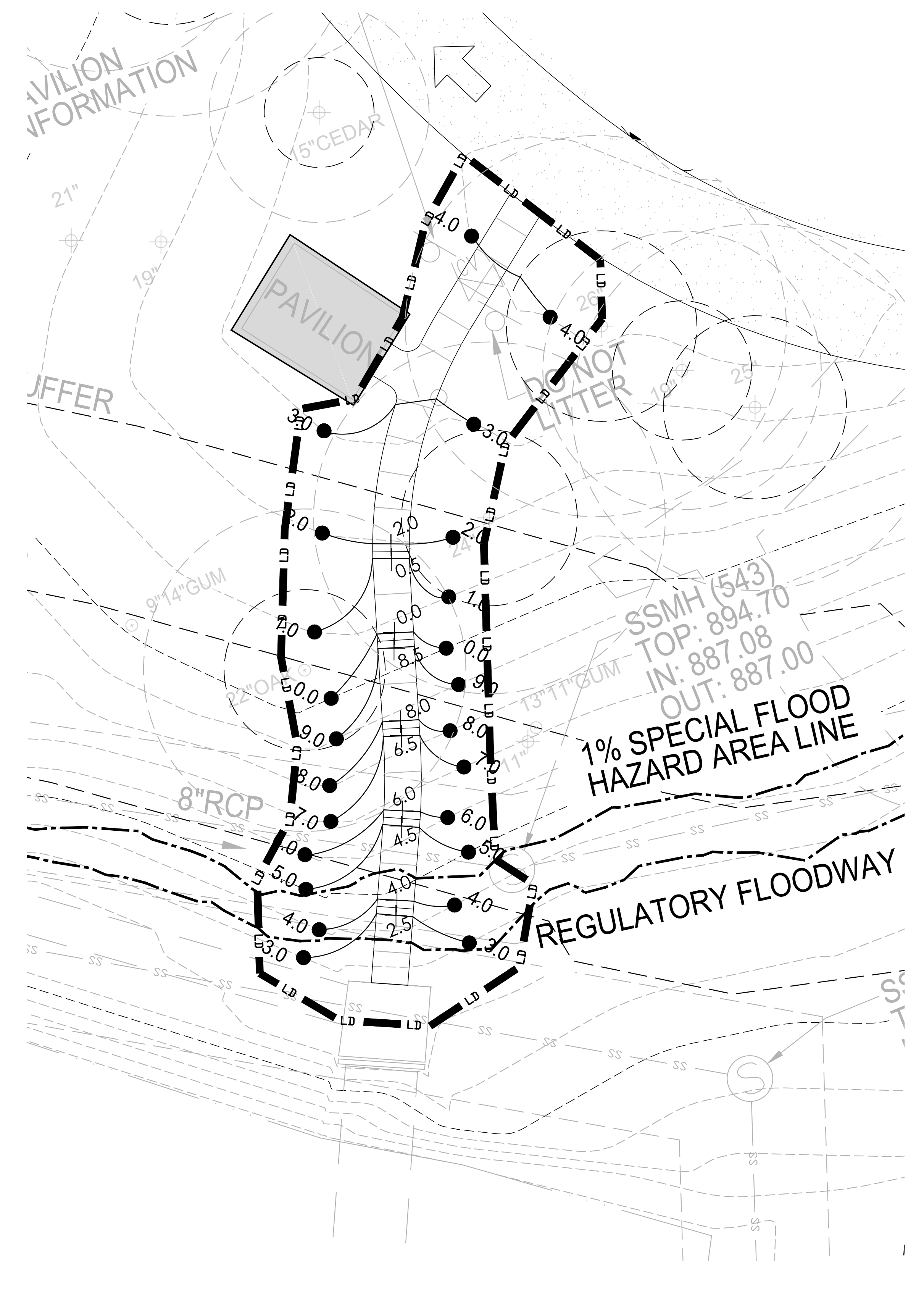
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GRADING AND DRAINAGE PLAN
COMMUNITY GREEN

PROJECT NUMBER 15092.00
C5.2B
DRAWING NUMBER



1 SIDEWALK CONNECTION A
1"=10'



2 SIDEWALK CONNECTION B
1"=10'

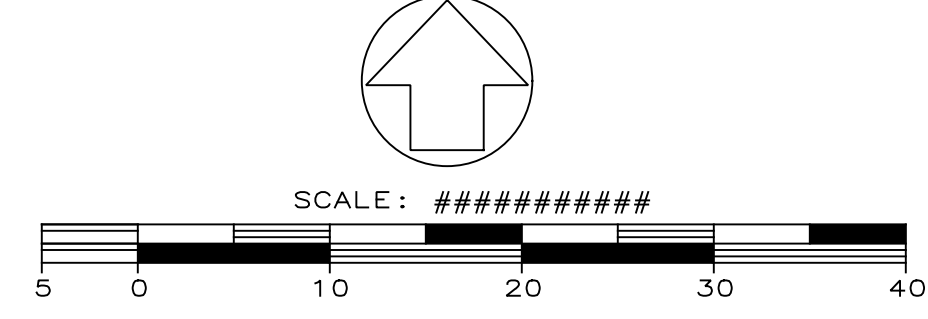
CONCRETE TRAIL OVER ROOT ZONE, SEE DETAIL 4 / C8.2A

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1-888-333-7411
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2021 SMALL TREE LOCATION
CPL LEAD DESIGNER FIELD LOCATED THE SMALL TREES ON SITE BY VISIT

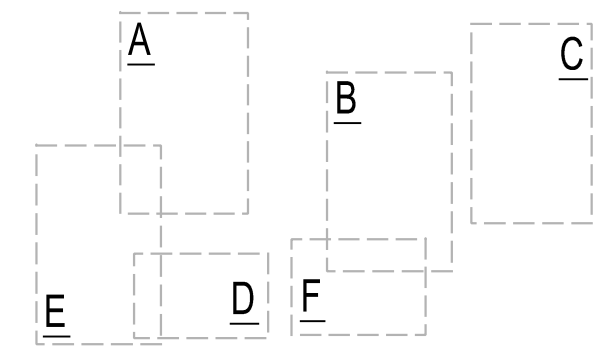
2016 SURVEY & 2019 UPDATED TREE SURVEY
TERRAMARK LAND SURVEYING, INC.
1306 BELLS FERRY ROAD
MARIETTA, GEORGIA 30066
PHONE NO. (770) 421-1927
FAX NO. (770) 421-0552
WWW.TERRAMARK.COM
C. O. A. # LSF000610

NOTE:
THE WRESTED VEGETATION AND 80% CONTOUR WERE SURVEYED IN BY TERRAMARK ON FEB. 4, 2021



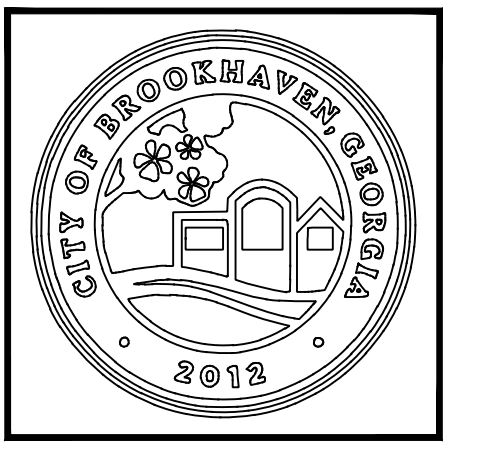
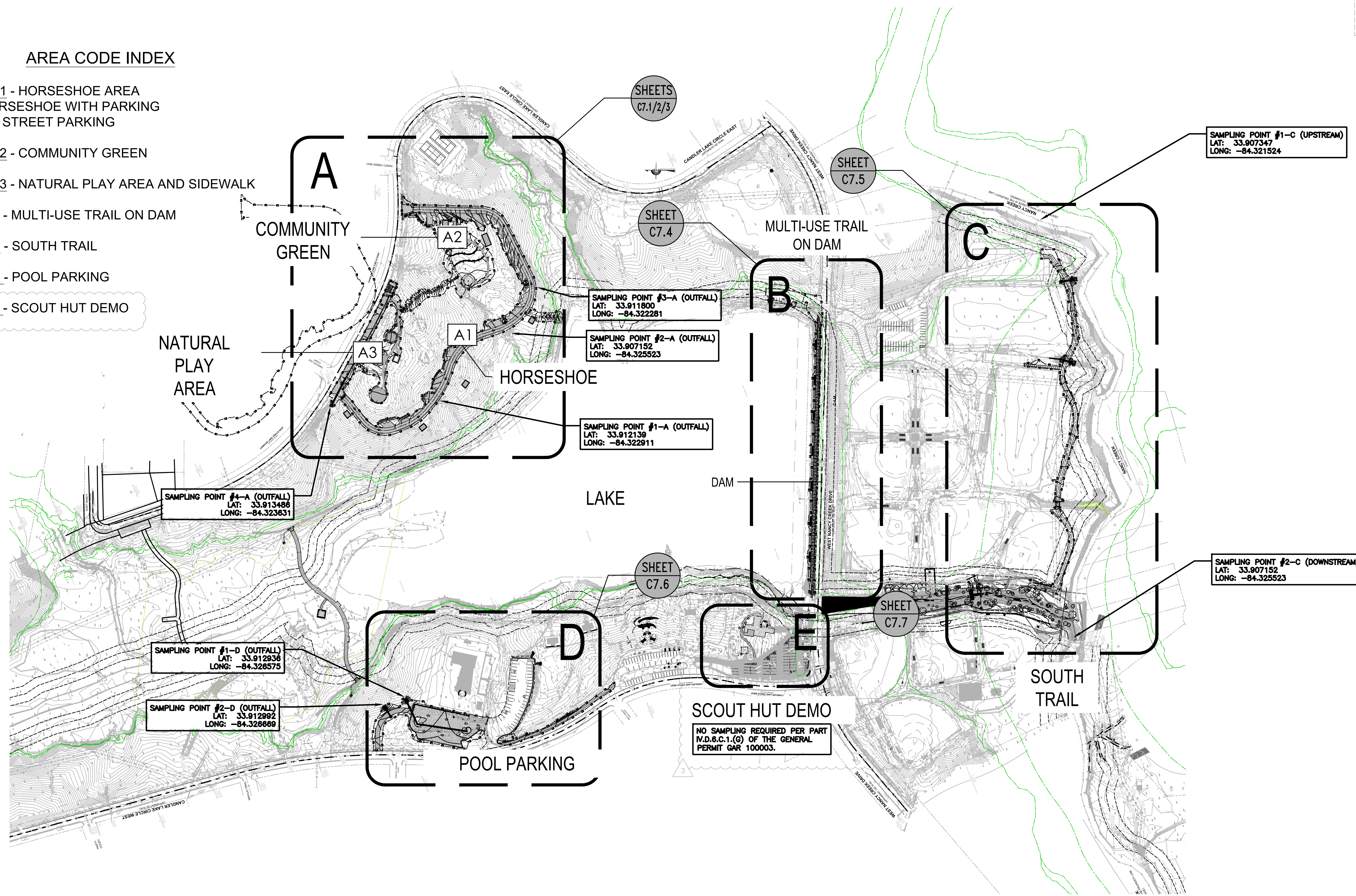
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Date last plotted: 5/28/2021 3:18 PM
Plotted By: Grace Zhong

SHEET KEY



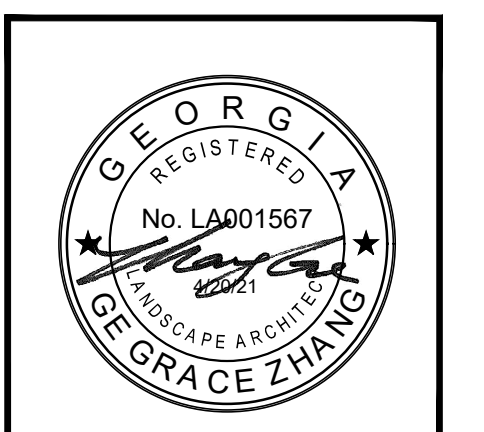
AREA CODE INDEX

1. AREA A1 - HORSESHOE AREA
 - HORSESHOE WITH PARKING
 - ON STREET PARKING
2. AREA A2 - COMMUNITY GREEN
3. AREA A3 - NATURAL PLAY AREA AND SIDEWALK
4. AREA B - MULTI-USE TRAIL ON DAM
5. AREA C - SOUTH TRAIL
6. AREA D - POOL PARKING
7. AREA E - SCOUT HUT DEMO



DRAWINGS SCHEDULE

No.	Date	Description
31	04/29	Multiple Trak on Dam - Prebook Review
32	06/05	ESCP - Community Green - City Council Review



CITY OF BROOKHAVEN
 MURPHEY CANDLER PARK
 1551 W. NANCY CREEK DRIVE NE
 BROOKHAVEN, GEORGIA 30319

MONITORING CHART:

Conduct Turbidity and Total Suspended Solids (TSS) Sampling after every rain event of 0.5 inches or greater within any 24 hour period, recognizing the exceptions specified in Part I.V.D.6.d of the NPDES Permit GAR 100001. Representative Sampling is not used on this project.

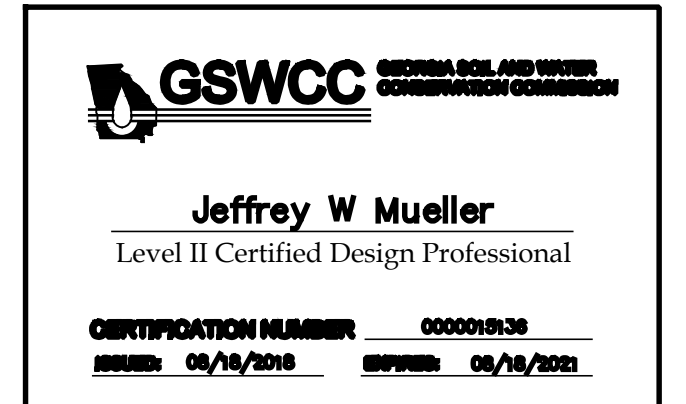
Monitoring Site	Primary or Alternate Site	Location Description	Name of Receiving Water	Applicable construction Phase	Sampling Type (Outfall or Receiving Water)	Drainage Area for Receiving Water (SQ MI)	Disturbed Area (AC)	Warm or Cold Water Stream	Appendix B NTU value (Outfall Monitoring)	Allowable NTU increase (for Receiving Water)
South Trail	Primary	Sample Location #1 & #2	Nancy Creek	All	Receiving Water	13.95	0.57	Warm	NA	25
Pool Parking	Primary	Sample Location #1D & #2D	Candler Lake	All	Outfall	13.95	0.9	Warm	50	NA
Horseshoe Loop	Primary	Sample Location #1A, #2A, #3A & #4A	Candler Lake	All	Outfall	13.95	0.99	Warm	50	NA
Community Green	Primary	Sample Location #1A, #2A & #3A	Candler Lake	All	Outfall	13.95	0.73	Warm	50	NA
Natural Play	Primary	Sample Location #4A	Candler Lake	All	Outfall	13.95	0.41	Warm	50	NA



2016 SURVEY & 2019 UPDATED TREE SURVEY
 TERRAMARK LAND SURVEYING, INC.
 1396 BELLS TERRY ROAD
 MARIETTA, GEORGIA 30066
 PHONE NO. (770) 421-1927
 FAX NO. (770) 421-0552
 WWW.TERRAMARK.COM
 C. O. A.# LSF000810

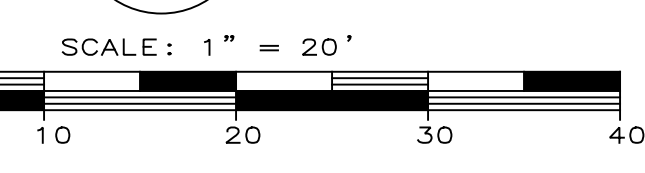
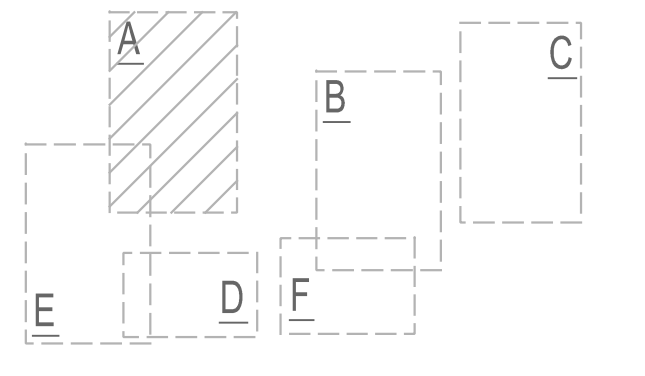
NOTE: THE WRESTED VEGETATION AND 893 CONTOUR WERE SURVEYED BY TERRAMARK ON FEB. 4, 2021

24-HR EMERGENCY CONTACT:
 LEE CROY
 CITY OF BROOKHAVEN
 4362 PEACHTREE ROAD
 BROOKHAVEN, GA 30319
 CELL: (678) 576 9846



DATE 03/03/21
 SCALE GZ
 SHEET TITLE ESCP NOTES III

PROJECT NUMBER 15092.00
 DRAWING NUMBER C7.0C



- EROSION CONTROL NOTES: 1. DISTURBED AREA: 0.73 AC. 2. THE SITE IS LOCATED WITHIN 1 MILE OF AN IMPAIRED STREAM, NANCY CREEK (FISCAL CONTROL NO. 07).

- CITY OF BROOKHAVEN EROSION CONTROL NOTES: 1. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE.

TREE PROTECTION NOTE: NO PARKING, STORAGE OR OTHER CONSTRUCTION ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS. ALL TREE PROTECTION FENCE TO BE INSPECTED DAILY.

STRUCTURAL PRACTICES

Table with 4 columns: CODE, PRACTICE, DETAIL, MAP SYMBOL, DESCRIPTION. Includes practices like Cd (Checkdam), Co (Construction Exit), Sd1 (Sediment Barrier), Sd2 (Inlet Sediment Trap), Rd (Rock Filter Dam), and Re (Retaining Wall).

VEGETATIVE PRACTICES

Table with 4 columns: CODE, PRACTICE, DETAIL, MAP SYMBOL, DESCRIPTION. Includes practices like Ds1 (Disturbed Area Stabilization - Temporary Seeding), Ds2 (Disturbed Area Stabilization - Permanent Seeding), Ds3 (Disturbed Area Stabilization - Permanent Seeding), Du (Disturbance Control), and Tac (Mudguards and Barriers).

SD2 #1 EXCAVATED SEDIMENT TRAP table with columns for AREA DRAINED, REQUIRED STORAGE, SIDE SLOPES, EXCAVATION DEPTH, ROD SURFACE AREA, LENGTH OF EXCAVATION, WIDTH OF EXCAVATION, PROVIDED STORAGE.

SD2 #2 EXCAVATED SEDIMENT TRAP table with columns for AREA DRAINED, REQUIRED STORAGE, SIDE SLOPES, EXCAVATION DEPTH, ROD SURFACE AREA, LENGTH OF EXCAVATION, WIDTH OF EXCAVATION, PROVIDED STORAGE.

SEDIMENT STORAGE NOTE: DUE TO THE LINEAR NATURE OF THIS PORTION OF THE PROJECT, TRADITIONAL SEDIMENT STORAGE BMPS SUCH AS SD1 ARE NOT FEASIBLE. AS AN EQUIVALENT, SEDIMENT WILL BE STORED ALONG THE LINEAR SILT FENCE AND SD2 EXCAVATED INLET TRAPS.

SAMPLING POINT #2-A (OUTFALL) LAT: -84.325523 LONG: -84.325523

SAMPLING POINT #3-A (OUTFALL) LAT: -84.322281 LONG: -84.322281

EMERGENCY CONTACT: LEE CROY, CITY OF BROOKHAVEN, 4362 PEACHTREE ROAD, BROOKHAVEN, GA, 30319, CELL: (678) 576 9846

GSWCC logo and Jeffrey W Mueller, Level II Certified Design Professional information.

GEORGIA 811 logo and Utilities Protection Center, Inc. contact information.

2021 SMALL TREE LOCATION: CPL LEAD DESIGNER FIELD LOCATED THE SMALL TREES ON SITE BY VISIT

2016 SURVEY & 2019 UPDATED TREE SURVEY: TERRAMARK LAND SURVEYING, INC. 1366 BELLS FERRY ROAD, MARIETTA, GEORGIA 30066

CONCRETE TRAIL OVER ROOT ZONE, SEE DETAIL 4 / C8.2A

DESIGN PROFESSIONAL INITIAL SITE INSPECTION: THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.

DESIGN PROFESSIONAL INTERMEDIATE SITE INSPECTION: THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS DURING INTERMEDIATE PHASE OF CONSTRUCTION.

DESIGN PROFESSIONAL FINAL SITE INSPECTION: THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER COMPLETION OF CONSTRUCTION.

DATE OF INSPECTION: I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

DESIGN PROFESSIONAL INTERMEDIATE SITE INSPECTION: THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS DURING INTERMEDIATE PHASE OF CONSTRUCTION.

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DATE OF INSPECTION: I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

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ARCHITECTURE ENGINEERING PLANNING CPLTeam.com logo.

CITY OF BROOKHAVEN logo.

DRAWINGS SCHEDULE table with columns for No., Date, Description.

Professional Engineer License for George Zhong, No. LA001567.

Professional Engineer License for Jeffrey W Mueller, No. 29402.

CITY OF BROOKHAVEN MURPHEY CANDLER PARK 1551 W. NANCY CREEK DRIVE NE BROOKHAVEN, GEORGIA 30319

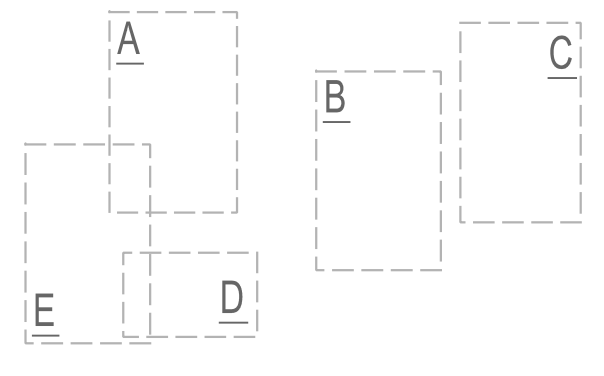
DATE, DRAWN, CHECKED table with values 03/03/21, GZ, MC.

PROJECT NUMBER: 15092.00

C7.2A

DRAWING NUMBER

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DRAWINGS SCHEDULE table with columns: No., Date, Description.



CITY OF BROOKHAVEN MURPHY CANDLER PARK 1551 W. NANCY CREEK DRIVE NE BROOKHAVEN, GEORGIA 30319

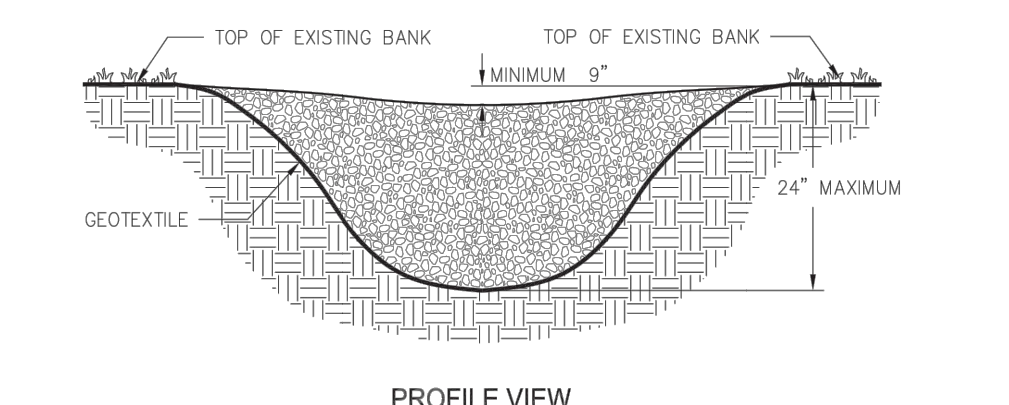
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EROSION CONTROL DETAILS I

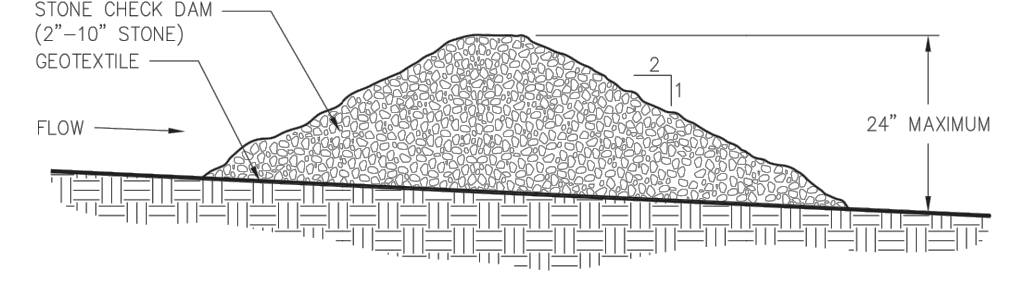
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STONE CHECK DAM

CROSS SECTION



PROFILE VIEW

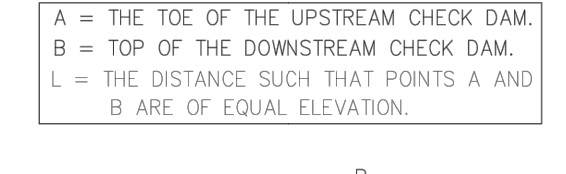


- NOTES: 1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS... 2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES...

Figure 6-122

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN 1.cfs in the channel which the check dam is being used in. 2. Above 2.0 cfs: Yes [X] No 3. If Yes, list BMP being used in conjunction with check dams: Stream Crossing Rock Filter Dam

STONE CHECK DAM SPACING BETWEEN CHECK DAMS



- A = THE TOE OF THE UPSTREAM CHECK DAM B = TOP OF THE DOWNSTREAM CHECK DAM L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.

Figure 6-121

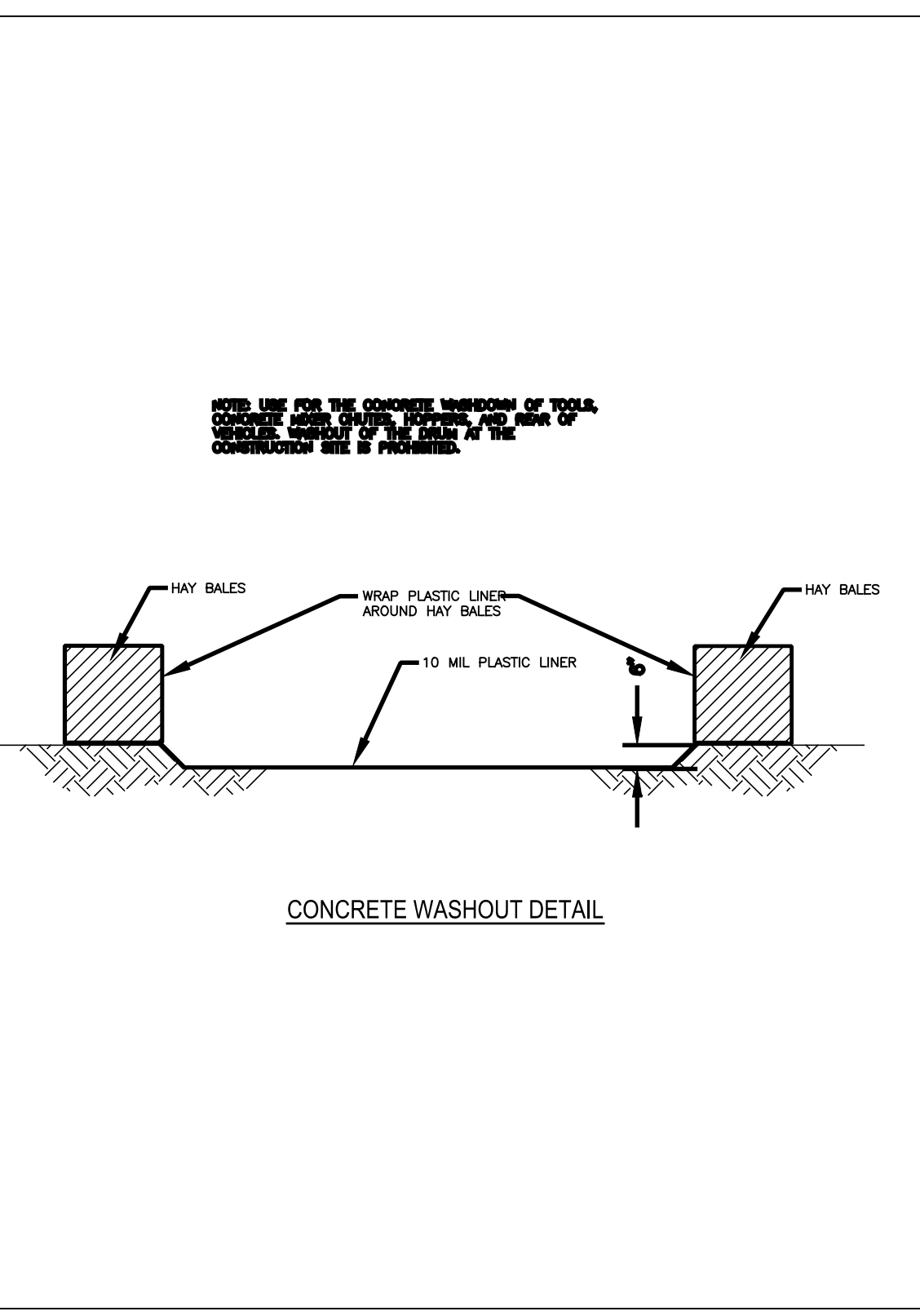


Figure 6-141

Dust Control on Disturbed Areas Du



DEFINITION: Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

PURPOSE: To prevent surface and air movement of dust from exposed soil surfaces.

CONDITIONS: This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS: A. Temporary Methods

Mulches. See standard Ds1 - Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material.

Spray-on Adhesives. These are used on mineral soils (not effective on moist soils). Keep traffic off these areas. Refer to specification Tac - Tackifiers.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency

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Installation

Bales should be bound with wire or nylon string. Twine bound bales are less durable. The bales should be placed in rows with bale ends tightly abutting the adjacent bales.

Downstream Row (Refer to Figure 6-12.3) Dig a trench across the small channel, wide enough and deep enough so that the top of the row of bales placed on their long, wide side is level with the ground. The tops of bales across the center of the channel should all be level and set at the same elevation. Place the bales in position and stake them according to the instructions below.

Upstream Row Dig another trench across the small channel, upstream and immediately adjacent to the first row of bales. The trench should be wide enough to accommodate a row of bales set vertically on their long edge. The trench should be deep enough so that at least 6 inches of each bale is below ground starting with the bale in the channel bottom. The trench should be as level as possible so that the tops of the bales across the center of the channel are level and water can flow evenly across them. Continue this trench up the side slopes of the small channel to a point where the unbanded bottom line of the highest bale (Point 'C', Figure 6-12.3) is higher than the top of the bales that are in the center of the channel (Point 'D', Figure 6-12.3).

Anchorage Drive standard 2 x 2 stakes or #4 rebar through the bales and into the ground 1 1/2 to 2 feet for anchorage. The first stake in each bale should be driven toward a previously laid bale to force the bales together (See Figure 6-12.3).

Reference: Colorado NRCS Straw Bale Check Dam

Compast Filter Sock (Cf-Fs) The filter sock should be staked in the center. If the compast filter sock is to be left as a permanent filter or part of the natural landscape, it may be seeded at time of installation for establishment of permanent vegetation.

Compast filter media used for compast filter sock filter material shall be weed free and derived from

a well-decomposed source of organic matter. The compost shall be produced using an aerobic composting process meeting CFR 603 regulations including time and temperature data.

The compost shall be free of any refuse, contaminants or other materials toxic to plant growth. Non-composted products will not be accepted.

Test methods for the items below should follow US Composting Council Test Methods for the Examination of Composting and Compost guidelines for laboratory procedures.

A. pH - 5.0-8.0 in accordance with TMECC 04.11.4, "Electrometric pH Determinations for Compost".

B. Particle size - 99% passing a 2-inch (50 mm) sieve and a maximum of 40% passing a 3/8-inch (9.5 mm) sieve, in accordance with TMECC 02.02-B, "Sample Sieving for Aggregate Size Classification". (Note - In the field, product commonly is between 1/2 and 2 inches (12.5 and 50 mm) particle size).

C. Moisture content of less than 80%, in accordance with standardized test methods for moisture determination.

D. Material shall be relatively free (<1% by dry weight) of inert or foreign manmade materials.

E. Sock containment system for compast filter media shall be a photodegradable or biodegradable knitted mesh material and should have 1/8 to 3/8 inch (2 to 9.5 mm) openings.

MAINTENANCE: Periodic inspection and required maintenance must be provided. Sediment shall be removed when it reaches a depth of one-half the original dam height or below. If the area is to be mowed, check dams shall be removed once final stabilization has occurred. Otherwise check dams may remain in place permanently. After removal, the area beneath the dam shall be seeded and mulched immediately.

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Check Dam Cd



DEFINITION: A temporary grade control structure, or dam constructed across a swale, drainage ditch, or area of concentrated flow.

PURPOSE: To minimize the erosion rate by reducing the velocity of the storm water in areas of concentrated flow.

CONDITIONS: This practice is applicable for use in small open channels and is not to be used in a live stream. Specific applications include:

- 1. Temporary or permanent swales or ditches in need of protection during establishment of grass linings.

- 2. Temporary or permanent swales or ditches that, due to their short length of service or other reasons, cannot receive a permanent non-erosive lining for an extended period of time.

- 3. Other locations where small localized erosion and resulting sedimentation problems exist.

DESIGN CRITERIA: Check dams should be designed using 2.0 cfs. For any flows exceeding 2.0 cfs, check dams may be used in conjunction with other BMPs in the channel. Dam height should be 24 inches maximum measured to the center of the check dam.

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Drainage Area

For stone check dams, the drainage area shall not exceed two acres. For straw-bale check dams and compost filter socks, the drainage area shall not exceed one acre.

Side Slopes

Side slopes shall be 2:1 or flatter.

Spacing

Two or more check dams in a series shall be used for drainage areas greater than one (1) acre. Maximum spacing between dams should be such that the toe of the upstream dam is at the same elevation as the top of the downstream dam. (See Figure 6-12.1)

Geotextiles

A geotextile should be used as a separator between the graded stone and the soil base and abutments. The geotextile will prevent the migration of soil particles from the subgrade into the graded stone. The geotextile shall be selected/specified in accordance with ASHTO M288-06 Section 7.3, Separation Requirements, Table 3.

Geotextiles shall be "let" into the subgrade soils. The geotextile shall be placed immediately adjacent to the subgrade without any voids and extend five feet beyond the downstream toe of the dam to prevent scour.

CONSTRUCTION SPECIFICATIONS

Stone Check Dams (Cs-S)

Stone check dams should be constructed of graded size 2-10 inch stone. Mechanical or hand placement shall be required to insure complete coverage of the entire width of the ditch or swale and that the center of the dam is lower than the edges. The center of the check dam must be at least 6 inches lower than the outer edges. (See Figure 6-12.2)

Straw-Bale Check Dams (CdBh)

Staked and embedded straw-bales may be used as temporary check dams in concentrated flow areas while vegetation is becoming established. They shall not be used where the drainage area exceeds one acre. Straw-bales should be installed per Figure 6-12.3.

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Construction Exit Co



DEFINITION: A stone stabilized pad located at any point where traffic will be leaving a construction site to a public right-of-way, street, alley, sidewalk or parking area or any other area where there is a transition from bare soil to a paved area.

PURPOSE: To reduce or eliminate the transport of mud from the construction area onto public rights-of-way by motor vehicles or by runoff.

CONDITIONS: This practice is applied at appropriate points of construction egress. Geotextile underliners are required to stabilize and support the pad aggregate.

DESIGN CRITERIA: Formal design is not required. The following standards shall be used:

Aggregate Size: Check dams should be designed using 2.0 cfs. For any flows exceeding 2.0 cfs, check dams may be used in conjunction with other BMPs in the channel. Dam height should be 24 inches maximum measured to the center of the check dam.

Pad Thickness: The gravel pad shall have a minimum thickness of 6 inches.

Pad Width: At a minimum, the width should equal full width of all points of vehicular egress, but not less than 20 feet wide.

Pad Length: The gravel pad shall have a minimum length

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of 50 feet. When the construction is less than 50' from the paved access, the length shall be from the edge of existing pavement to the permitted building being constructed.

Washing

If the action of the vehicle traveling over the gravel pad does not sufficiently remove the mud, the tires should be washed prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with crushed stone and provisions that intercept the sediment-laden runoff and direct it into an approved sediment trap or sediment basin.

Location

The exit shall be located or protected to prevent sediment from leaving the site.

CONSTRUCTION SPECIFICATIONS: It is recommended that the egress area be excavated to a depth of 3 inches and be cleaned of all vegetation and roots.

Diversion Ridge

On sites where the grade toward the paved area is greater than 2%, a diversion ridge 6 to 8 inches high with 3:1 side slopes shall be constructed across the foundation approximately 15 feet above the road.

Geotextile

The geotextile underliner must be placed the full length and width of the entrance. Geotextile selection shall be based on ASHTO M288-06 specification:

- 1. For subgrades with a CBR greater than or equal to 3 or shear strength greater than 90 kPa, geotextile must meet requirements of section ASHTO M288-06 Section 7.3, Separation Requirements.

- 2. For subgrades with a CBR between 1 and 3 or shear strength between 30 and 90 kPa, geotextile must meet requirements of section ASHTO M288-06 Section 8, Geotextile Property Requirements for Sub-surface Drainage, Separation, Stabilization, and Permanent Erosion Control (Geotextile Property Requirements).

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MAINTENANCE: The exit shall be maintained in a condition that will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with 1.5-3 inch stone, as conditions demand, and repair and/or cleanout of any structures to trap sediment. All materials spilled,

dropped, washed, or tracked from vehicles or site onto roadways or into storm drains must be removed immediately.

MAINTENANCE: Periodic inspection and required maintenance must be provided. Sediment shall be removed when it reaches a depth of one-half the original dam height or below. If the area is to be mowed, check dams shall be removed once final stabilization has occurred. Otherwise check dams may remain in place permanently. After removal, the area beneath the dam shall be seeded and mulched immediately.

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MAINTENANCE: The exit shall be maintained in a condition that will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with 1.5-3 inch stone, as conditions demand, and repair and/or cleanout of any structures to trap sediment. All materials spilled,

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TACKIFIERS Tac



DEFINITION: Tackifiers are used as a tie-down for soil, compost, seed, straw, hay or mulch. Tackifiers hydrate in water and readily blend with other slurry materials to form a homogeneous slurry.

PURPOSE: To reduce soil erosion from wind and water on construction sites. Other benefits include soil infiltration, soil fertility, enhanced seed germination, increased soil cohesion, enhanced soil stabilization, reduced stormwater runoff turbidity and reduction in loss of topsoil.

CONDITIONS: This practice is intended for direct soil surface application to sites where the timely establishment of vegetation may not be feasible or where vegetation cover is absent or inadequate. Such areas include construction areas, where plant residues are inadequate to protect the soil surface and where land disturbing activities prevent the establishment or maintenance of a vegetative cover.

CRITERIA: Type I Tackifiers: Synthetic Polymers (Tac-1)

-Application rates shall conform to manufacturer's guidelines for application.

-Only anionic forms of PAM shall be used. Anionic PAMs shall be no more than 0.05% acrylamide monomer by weight, as

established by the Food and Drug Administration and the Environmental Protection Agency.

-Not harmful to plants, animals and aquatic life.

-Contain no growth or germination inhibiting materials.

-Shall not reduce infiltration rates.

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-Not harmful to plants, animals and aquatic life.

-Contain no growth or germination inhibiting materials.

-Shall not reduce infiltration rates.

Type II Tackifiers: Organic Polymers (Tac-2)

-Application rates shall conform to manufacturer's guidelines for application.

-Derived from natural plant sources.

-Not harmful to plants, animals and aquatic life.

-Contain no growth or germination inhibiting materials.

-Shall not reduce infiltration rates.

Type III Tackifiers: Synthetic/Organic Blends (Tac-3)

-Application rates shall conform to manufacturer's guidelines for application.

-Only anionic forms of PAM shall be used in the blend, and shall be no more than 0.05% acrylamide monomer by weight.

-Organic material must be derived from natural plant sources.

-Not harmful to plants, animals and aquatic life.

-Contain no growth or germination inhibiting materials.

-Shall not reduce infiltration rates.

Type IV Tackifiers: Organic Tackifiers with Synthetic Fibers (Tac-4)

-Application rates shall conform to manufacturer's guidelines for application.

-Organic material must be derived from natural plant sources.

-Not harmful to plants, animals and aquatic life.

-Contain no growth or germination inhibiting materials.

-Shall not reduce infiltration rates.

-Synthetic fibers shall be of nylon or polyester blends.

Type V Tackifiers: Synthetic/Organic Blends with Synthetic Fibers (Tac-5)

-Application rates shall conform to manufacturer's guidelines for application.

-Only anionic forms of PAM shall be used in the blend, and shall be no more than 0.05% acrylamide monomer by weight.

-Organic material must be derived from natural plant sources.

-Not harmful to plants, animals and aquatic life.

-Contain no growth or germination inhibiting materials.

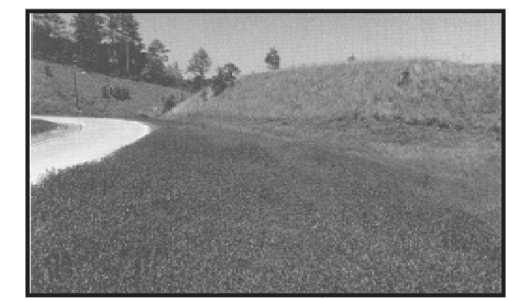
-Synthetic fibers shall be of nylon or polyester blends.

MAINTENANCE: Tackified areas should be checked after every rain event. Periodic inspections and required maintenance must be provided per manufacturer's recommendations.

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Disturbed Area Stabilization (With Permanent Vegetation)



Disturbed Area Stabilization (With Permanent Vegetation)

DEFINITION

The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent permanent vegetation shall be used to achieve final stabilization.

PURPOSE

- To protect the soil surface from erosion
- To reduce damage from wind and runoff to down-stream areas
- To improve wildlife habitat and visual resources
- To improve aesthetics

REQUIREMENT FOR REGULATORY COMPLIANCE

This practice shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas of final grade. Final Stabilization means that all soil disturbing activities at the site have been completed, and that for unpaired areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by the GA Dept. of Waste Disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan Uniformly covered with landscaping materials in planned landscaped areas, or equivalent permanent stabilization measures.

PERMANENT VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION.

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Permanent vegetation shall consist of planted trees, shrubs, perennial vines, or a crop of perennial vegetation appropriate for the region, such that within the growing season a 70% coverage by perennial vegetation shall be achieved. Final stabilization applies to each phase of construction. For linear construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use. Until the standard is satisfied and permanent control measures and facilities are operational, interim stabilization measures and temporary erosion and sedimentation control measures shall not be removed.

CONDITIONS

Permanent permanent vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other degraded areas.

PLANNING CONSIDERATIONS

- Use conventional planting methods where possible.
- When mixed plantings are done during marginal planting periods, companion crops shall be used.
- No-tilt planting is effective when planting is done following a summer or winter annual crop. Sericea lespedeza planted no-tilt into stands of ryegrass is an excellent procedure.
- Block sod provides immediate cover. It is especially effective in controlling erosion adjacent to concrete floors and other structures. Refer to Specification D4-4-Disturbed Area Stabilization (With Sodding).
- Irrigation should be used when the soil is dry or when summer plantings are done.
- Low maintenance plants, as well as natives, should be used to ensure long-lasting erosion control.
- Mowing should not be performed during the quill resting season (May to September).
- Wildlife plantings should be included in critical area plantings.

CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE

Concentrations of water that will cause excessive erosion should be avoided.

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Wildlife Plantings

Commercially available plants beneficial to wildlife species include the following:

Mast Bearing Trees

Beech, Black Cherry, Blackgum, Chestnut, Chickadee, Hackberry, Hickory, Honey Locust, Native Oak, Persimmon, Sawtooth Oak and Sweetgum.

All trees that produce nuts or fruits are favored by many game species. Hickory produces nuts used mainly by squirrels and birds.

Shrubs and Small Trees

Bayberry, Bicolor Lespedeza, Crabapple, Dogwood, Huddleberry or Native Blueberry, Mountain Laurel, Native Holly, Red Cedar, Red Mulberry, Sumac, Wax Myrtle, Wild Plum and Blackberry.

Plant in patches without tall trees to develop stable shrub communities. All produce fruits used by many kinds of wildlife, except for lespedeza that produces seeds used by quail and songbirds.

Grasses, Legumes, Vines and Temporal Cover

Bahiagrass, Bermudagrass, Grass-Legume mixtures, Partridge Pea, Annual Lespedeza, Orchardgrass (for mountains), Browntop Millet (for temporary cover), and Native grasses.

Provides herbaceous cover in clearings for a game bird brood-rearing habitat. Appropriate mixtures such as vetches, clovers, and lespedeza may be mixed with grasses, but they may die out after a few years.

CONSTRUCTION SPECIFICATIONS

Grading and Shaping

Grading and shaping may not be required when hydraulic seeding equipment is used, the initial fertilizer shall be mixed with seed, inoculant (if needed), and wood cellulose or wood pulp fiber mulch and applied in a slurry. If needed, it should be mixed with the seed prior to being placed into the hydraulic seeder. The slurry mixture will be agitated during application to keep the ingredients thoroughly mixed. The mixture will be spread uniformly over the area within one hour after being placed in the container.

CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE

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Line and Fertilizer Rates and Analysis

Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise. Graded areas require lime application. If lime is applied within six months of planting permanent permanent vegetation, additional lime is not required. Agricultural lime shall be within the specifications of the Georgia Department of Agriculture.

Line spread by conventional equipment shall be applied to the soil surface in a series of passes. If lime is applied within six months of planting permanent permanent vegetation, additional lime is not required. Agricultural lime shall be within the specifications of the Georgia Department of Agriculture.

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Sediment Barrier Sd1



Sediment barriers should also provide a riprap splash pad or other outlet protection device for any point where flow may overtop the sediment barrier. Ensure that the maximum height of the barrier at a protected, reinforced outlet does not exceed 4 feet.

Where all runoff is to be stored behind the sediment barrier (where no storm water disposal system is present), maximum continuous slope length behind a sediment barrier shall not exceed those shown in Table 6-27.1. For longer slope lengths, slope interrupters must be used. The drainage area shall not exceed 1/4 acre for every 10 feet of sediment barrier.

DEFINITION
Sediment Barriers are temporary structures made up of a porous material typically supported by steel or wood posts. Types of sediment barriers may include silt fence, brush piles, mulch berms, compost filter socks or other filtering material.

PURPOSE
To minimize and prevent sediment carried by sheet flow from leaving the site and entering natural drainage ways or storm drainage systems by slowing storm water runoff and causing the deposition and filtration of sediment at the structure. The barriers retain the soil on the disturbed land until the activities disturbing the land are completed and vegetation is established.

CONDITIONS
Barriers should be installed where runoff can be stored behind the barrier without damaging the subgrade area behind the barrier or the structure itself. Sediment barriers shall not be installed across streams, ditches, waterways, or other concentrated flow areas.

DESIGN CRITERIA
Sediment barriers are designed to retain sediment transported by sheet flow from disturbed areas. It is important for the design professional to take into account the profile of the product for use on the site.

Table 6-27.1 Criteria for Sediment Barrier

Land Slope	Maximum Slope Length Above Fence
Percent	Feet
< 2	100
2 to 5	75
5 to 10	50
10 to 20	25
> 20	15

In areas where the slope is greater than 20%, a full area length of 10 feet between the toe of the slope to the barrier should be provided.

Table 6-27.2 Post Size

Type	Min Length	Type of Post	Size of Post
NS	4'	Soft wood Oak	3/4" or 24 1.5" x 1.5" 1.5lb./ft. min
S	4'	Steel Oak	1.15-1.25 lb./ft. min 2"x2"

Placement
The type of sediment barrier depends on whether the area is sensitive or non-sensitive. Sensitive areas can be defined as any area that needs additional protection, these areas include but are not limited to, state waters, wetlands, or any area the design professional designates as sensitive.

When using multiple types of sediment barriers on a site in a single run, the barriers must be overlapped 18 inches or as specified by design professional. See Figure 6-27.5.

CONSTRUCTION SPECIFICATIONS
Non-sensitive Areas - Sd1-NS
Sediment barriers being used as Type NS shall have a support spacing of no greater than 18 inches on center, with each being driven into the ground a minimum of 18 inches.

Sensitive Areas - Sd1-S
Sediment barriers being used as Type S shall have a support spacing of no greater than 4 feet on center, with each being driven into the ground a minimum of 18 inches.

Filter Media Stock Specifications
Compost filter media used for sediment barrier filter material shall be used free and derived from a well-decomposed source of organic matter. Filter Media Stock is classified as a Type B, non-sensitive application. The compost shall be produced using an aerobic composting process meeting CFR 503 regulations including time and temperature data. The compost shall be free of any refuse, contaminants or other materials toxic to plant growth. Non-composted products will not be accepted without applicable water quality test results. Test methods for the items below should follow US Composting Council Test Methods for the Examination of Composting and Compost:

- A. pH = 5.0-8.0 in accordance with TMECC 04.11-A, "Electrometric pH Determinations for Compost"
- B. Particle size - 99% passing a 2 inch (50mm) sieve and a maximum of 40% passing a 3/8 inch (9.5mm) sieve, in accordance with TMECC 02.02-B, "Sample Sieving for Aggregate Size Classification". (Note: In the field, product commonly is tested in 1/2, 5/8 and 2 in./50 mm in particle size)
- C. Moisture content of less than 50% in accordance with standardized test methods for moisture determination.
- D. Material shall be relatively free (<1% by dry weight) of inert or foreign manmade materials.
- E. Stock containment system for compost filter media shall be a photodegradable or biodegradable knitted mesh material and should have 1/8 in. to 3/8 in., openings.

Brush Barrier Sd1-BB
(Only during timber clearing operations)
Brush obtained from clearing and grubbing operations may be piled in a row along the perimeter of the storm drain to create a silt 12" deep, and simultaneously inserts the silt fence fabric into this silt to provide the barrier. The silt fence is designed to slightly disrupt soil upward next to the silt and to minimize horizontal compaction thereby creating an optimum condition for compacting the soil vertically on both sides of the fabric. Compaction is achieved by rolling a tractor wheel along both sides of the silt in the ground 2 to 4 times to achieve nearly the same or greater compaction as the original undisturbed soil.

The minimum base width of the brush barrier shall be 5 feet and should be no wider than 10 feet. The height of the brush barrier should be between 3 and 4 feet tall.

TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
When a SEDIMENT BARRIER is used, show the product height in inches for each barrier being used on site.

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SA = Required sediment storage / excavation depth
SA = _____ sq ft
- Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: L = _____ ft W = _____ ft diameter (if applicable) _____ ft

Provide a detail showing the depth, length and width, or diameter (if applicable), and side slopes of the excavation.

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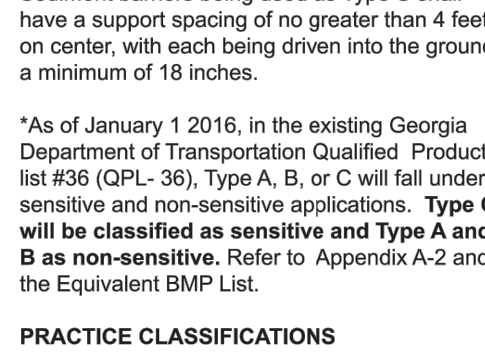
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SILT FENCE - SENSITIVE



TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
When a SEDIMENT BARRIER is used, show the product height in inches for each barrier being used on site.

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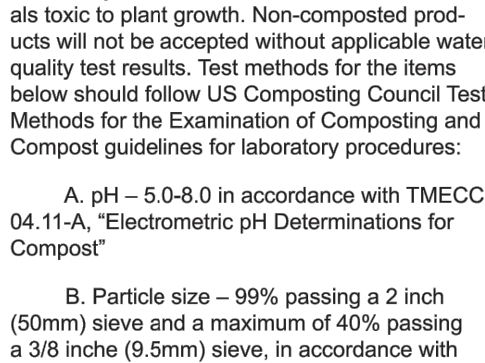
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FASTENERS FOR SILT FENCES



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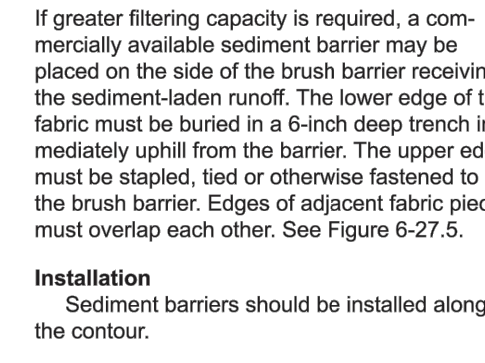
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INLET SEDIMENT TRAP Sd2



TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
When a SEDIMENT BARRIER is used, show the product height in inches for each barrier being used on site.

TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
When an EXCAVATED INLET SEDIMENT TRAP is used, show the following information:

- Drainage area = _____ ac
- Required sediment storage = 67 cubic * drainage area
Required sediment storage = 67 cubic * ac
- Assume excavation depth (minimum of 1.5 ft) = _____ ft
- Assume slope of sides (shall not be steeper than 2:1) = _____
- Determine required surface area
SA = Required sediment storage / excavation depth
SA = _____ sq ft
- Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: L = _____ ft W = _____ ft diameter (if applicable) _____ ft

Provide a detail showing the depth, length and width, or diameter (if applicable), and side slopes of the excavation.

TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
When an EXCAVATED INLET SEDIMENT TRAP is used, show the following information:

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TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
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- Drainage area = _____ ac
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SA = _____ sq ft
- Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: L = _____ ft W = _____ ft diameter (if applicable) _____ ft

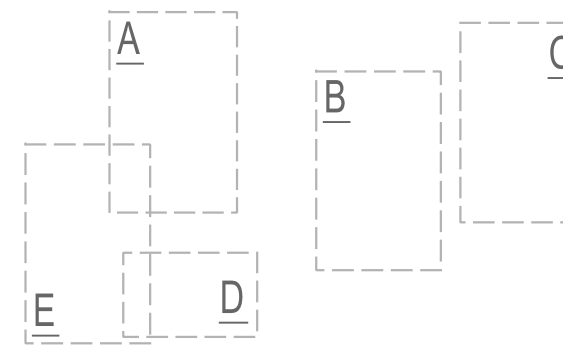
Provide a detail showing the depth, length and width, or diameter (if applicable), and side slopes of the excavation.

TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
When an EXCAVATED INLET SEDIMENT TRAP is used, show the following information:

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SA = Required sediment storage / excavation depth
SA = _____ sq ft
- Assume shape of excavation and determine dimensions.
(A rectangular shape with 2:1 length to width ratio is recommended.)
Shape: L = _____ ft W = _____ ft diameter (if applicable) _____ ft

Provide a detail showing the depth, length and width, or diameter (if applicable), and side slopes of the excavation.

TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
When an EXCAVATED INLET



DRAWINGS SCHEDULE

No.	Date	Description
11	08/17	LDP - South Tract - City Comment #2
12	08/17	LDP - South Tract - City Comment #1
13	10/13	LDP - Pool Parking - City Comment #1
14	10/16	LDP - Habitat Plus Area Field Change #1
15	10/19	Multi-use Trail in East - Pedestrian Review
16	11/18	LDP - Pool Parking - City Comment #2
17	11/20	LDP - Community Green - City Comment #2
18	11/20	LDP - Community Green - City Comment #1
19	11/20	NORTH BROADWAY DESIGN/REDESIGN



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

DATE	DRAWN	CHECKED
04/23/20	BM	GZ
SCALE		
SHEET TITLE		
EROSION CONTROL DETAILS V		

PROJECT NUMBER
15092.00
C7.2F
DRAWING NUMBER

Tree Protection



DEFINITION
To protect desirable trees from injury during construction activity.

PURPOSE
To ensure the survival of desirable trees where they will be effective for erosion and sediment control, watershed protection, landscape beautification, dust and pollution control, noise reduction, shade and other environmental benefits while the land is being converted from forest to urban-type uses.

CONSTRUCTION ACTIVITIES
Trees can be damaged or killed by a wide variety of construction activities. Obvious injuries such as broken branches or torn bark deplete the tree's resources and provide entry points for insects, or for diseases such as Oak-Wilt.

The worst damage, however, often remains hidden underground. Roots are one of the most vital parts of a tree. They are responsible for nutrient and water uptake, energy storage and anchoring the plant. It is critical that you protect roots that lie in the path of construction.

Soil compaction is the leading killer of urban trees. Tree roots need loose soil to grow, obtain oxygen, and absorb water and nutrients. Stock-piled building materials, heavy machinery, and excessive foot traffic, all damage soil structure. Lacking good soil aeration, roots suffocate and tree health declines.

Requirement for Regulatory Compliance
Many cities and counties in Georgia have

GBWCC 2016 Edition 6-225

tree protection specifications written in their local ordinances. In some areas a permit is needed to remove trees with a specified diameter. It is important for property owners and design professionals to contact the local government to obtain information regarding tree ordinances BEFORE ES&PC plans are designed. Failure to do so could result in heavy fines or delay in construction.

DESIGN CRITERIA
No formal design is required. However, in planning, a number of criteria must be considered.

Tree Protection Zones:
1. Measure the diameter of the tree trunk in inches at 4.5 feet from the ground. This is called the Diameter Breast Height or DBH.

2. Multiply this value by 1.5. This result is the radius of the root protection zone in feet. This is also considered the critical rooting distance.

Once the size of the area is determined, consider fencing materials. Orange tree save fencing or black silt fencing are commonly used.

These materials are easy to install but they often get knocked down or removed when it is inconvenient to go around the tree save area. In some cases more permanent materials, such as chain link fencing, may be required. Whatever fencing material is used, it must be maintained throughout the construction process.

Tree Protection Zone Fencing:
Tree protection zone fencing may be one of the following:

1. For areas of large remnant forest to be protected use 4 feet high orange plastic fabric fencing stapled in three locations to treated wood 2x4 stakes. Set stakes 6 feet on center. Rubber is not to be used for stakes. Figure 6-38.1

2. For single family homes use a treated wood fencing as shown on detail. It may have orange fabric attached to it.

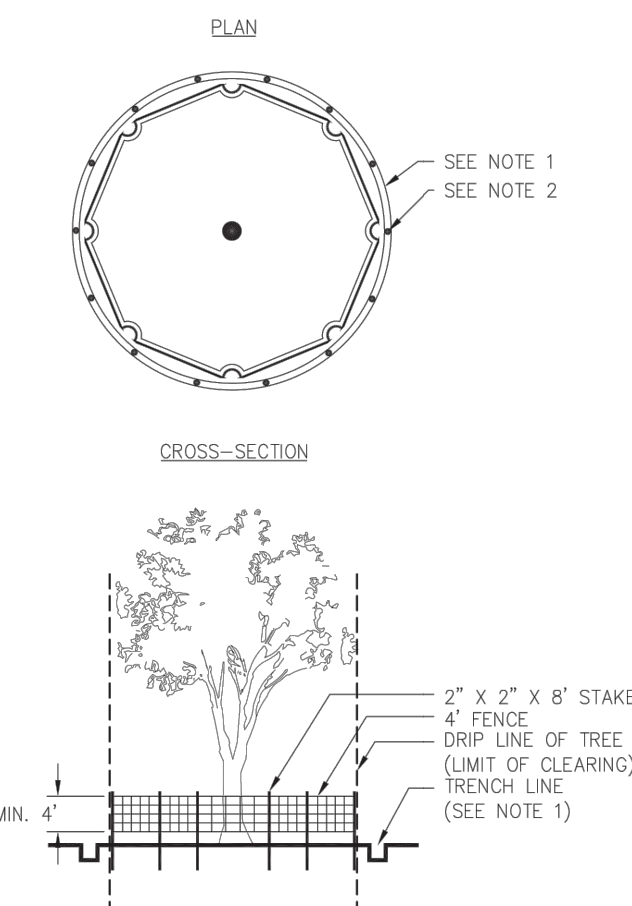
3. For all other developments use 6 feet high

chain link fencing attached to galvanized metal post as shown on detail. Figure 6-38.2

For more information about standards for adequate tree protection, refer to guidance by the American National Standard (ANSI) or the International Society of Arboriculture.

TREE PROTECTION

"SNOW" FENCE



- NOTES:**
1. USE TRENCHER (E.G. DITCH WHICH) TO CUT A 4"-5" W X 18" D TRENCH ALONG DRIP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT.
 2. SPIKE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REBAR IS NOT TO BE USED FOR STAKES)
 3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
 4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.
 5. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.

Figure 6-38.1

GBWCC 2016 Edition 6-228

6-227

Rock Filter Dam



DEFINITION
A temporary stone filter dam installed across drainage ways or in conjunction with a temporary sediment trap.

PURPOSE
This structure is installed to serve as a sediment filtering device in drainage ways or outlets for sediment traps (See Temporary Sediment Trap - S44). In some cases, it may also reduce the velocity of stormwater flow through a channel. This structure is not intended to substantially impound water.

CONDITIONS
This practice is applicable for use in small channels that drain 50 acres or less. The rock filter dam must be used in conjunction with other appropriate sediment control measures to reduce the amount of sediment leaving the channel.

DESIGN CRITERIA
The following standards shall be followed:

Drainage Area
The drainage area to the dam shall not exceed 50 acres.

Height
The dam should not be higher than the channel banks or exceed the elevation of the upstream property line. The center of the rock dam should be at least nine inches lower than the outer edges of the dam at the channel banks.

Side Slopes
The side slopes shall be 2:1 or flatter.

GBWCC 2016 Edition 6-123

Location
The dam shall be located as close to the source of sediment as possible and so that it will not cause water to back up on upstream adjacent property or into state waters.

Stone Size
The stone size shall be determined by the design criteria established in Riprap - Appendix C. The rock dam can be faced with smaller stone on the upstream side for additional filtering effect. However, this may make the dam more prone to clogging.

Top Width
The width across the top of the dam should be no less than six feet.

Geotextile
Geotextiles should be used as a separator between the graded stone, the soil base, and the abutments. The geotextile will prevent the migration of soil particles from the subgrade into the graded stone. The geotextile shall be specified in accordance with AASHTO M288-08 Section 5. Geotextile Property Requirements. The geotextile should be placed immediately adjacent to the subgrade without any voids and extend five feet beyond the downstream toe of the dam to prevent scour.

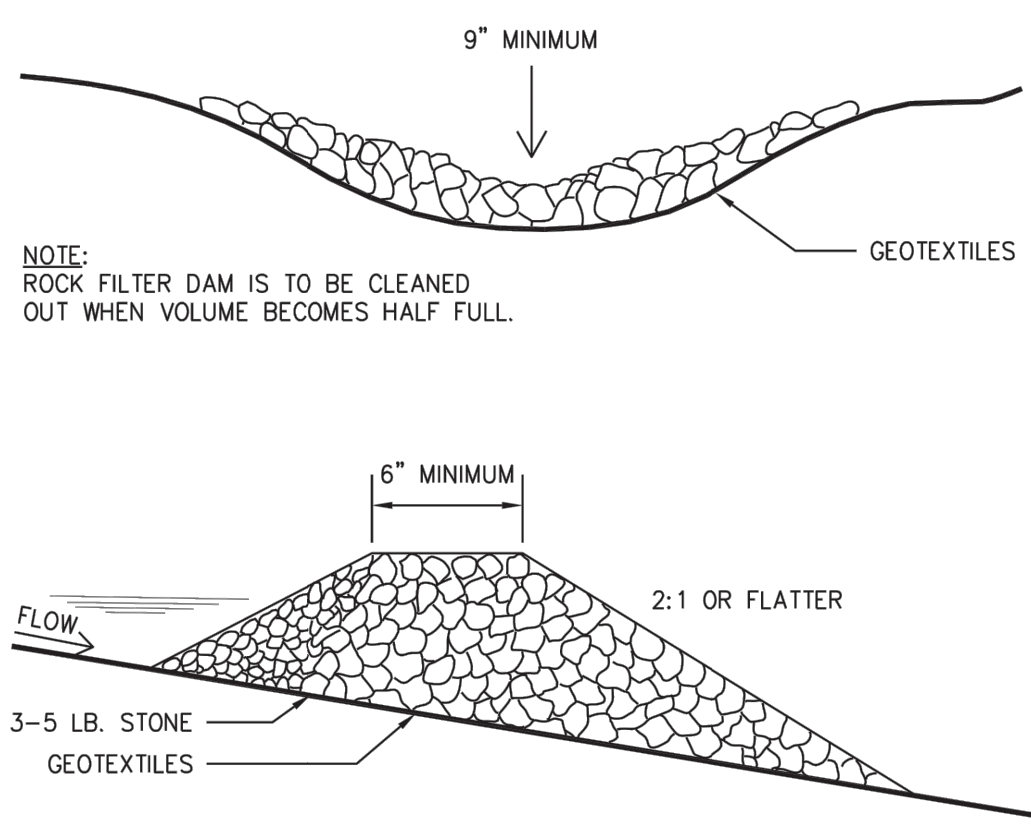
CONSTRUCTION SPECIFICATIONS
Mechanical or hand placement will be required to insure that the rock dam extends completely across the channel and securely ties into both channel banks. The center of the dam must be no less than nine inches lower than the lowest side, to serve as a type of weir. Gabions can be installed to serve as rock filter dams, but should follow recommended sizing and installation specifications. Refer to specification Gabion. See Figure 6-24.1

MAINTENANCE
Rock dams should be removed once disturbed areas have been stabilized. Periodic inspection and required maintenance must be provided. Sediment shall be removed when it reaches a depth of one-half of the original height of the dam.

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

1. Figure 6-24.1, noting rock size as specified in Appendix C.
2. Top and bottom widths.

ROCK FILTER DAM



NOTE:
ROCK FILTER DAM IS TO BE CLEANED OUT WHEN VOLUME BECOMES HALF FULL.

Figure 6-24.1

GBWCC 2016 Edition 6-124

6-125

riprap stone sizes and filter bedding stone sizes.

N.S.A. Graded riprap stone sizes are shown in Table C-1.

N.S.A. Filter bedding stone sizes are shown in Table C-1 and C-2.

D.O.T. Graded riprap stone sizes are shown in Table C-3.

D.O.T. Filter bedding stone sizes are shown in Table C-4.

Data for stone center waterways are shown in Table C-5 and Figure C-3.

Table C-1 Graded Rip-Rap Stone

Flow Velocity (ft/sec)	N.S.A. No. ¹	Size Inches (Sq. Opening) Avg. ²			Filter Stone N.S.A. No. ¹
		Max.	Min.	No. 8	
2.5	R-1	1 1/2	3/4	1/2	FS-1
4.5	R-2	3	1 1/2	1	FS-1
6.5	R-3	6	3	2	FS-2
9.0	R-4	12	6	3	FS-2
11.5	R-5	18	9	5	FS-2
13.0	R-6	24	12	7	FS-3
14.5	R-7	30	15	12	FS-3

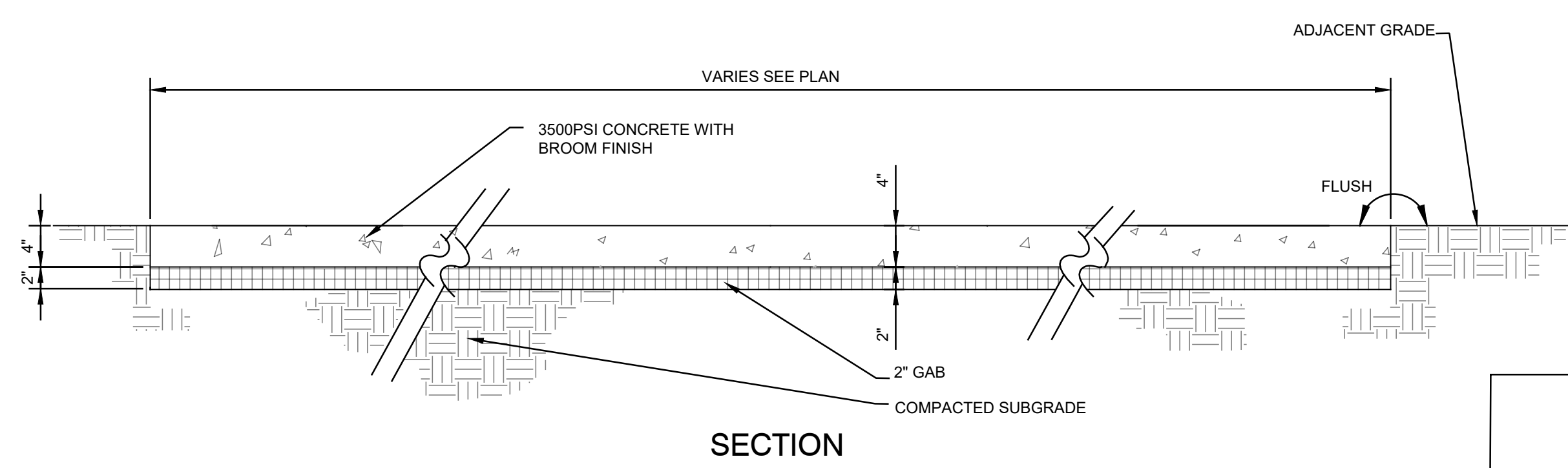
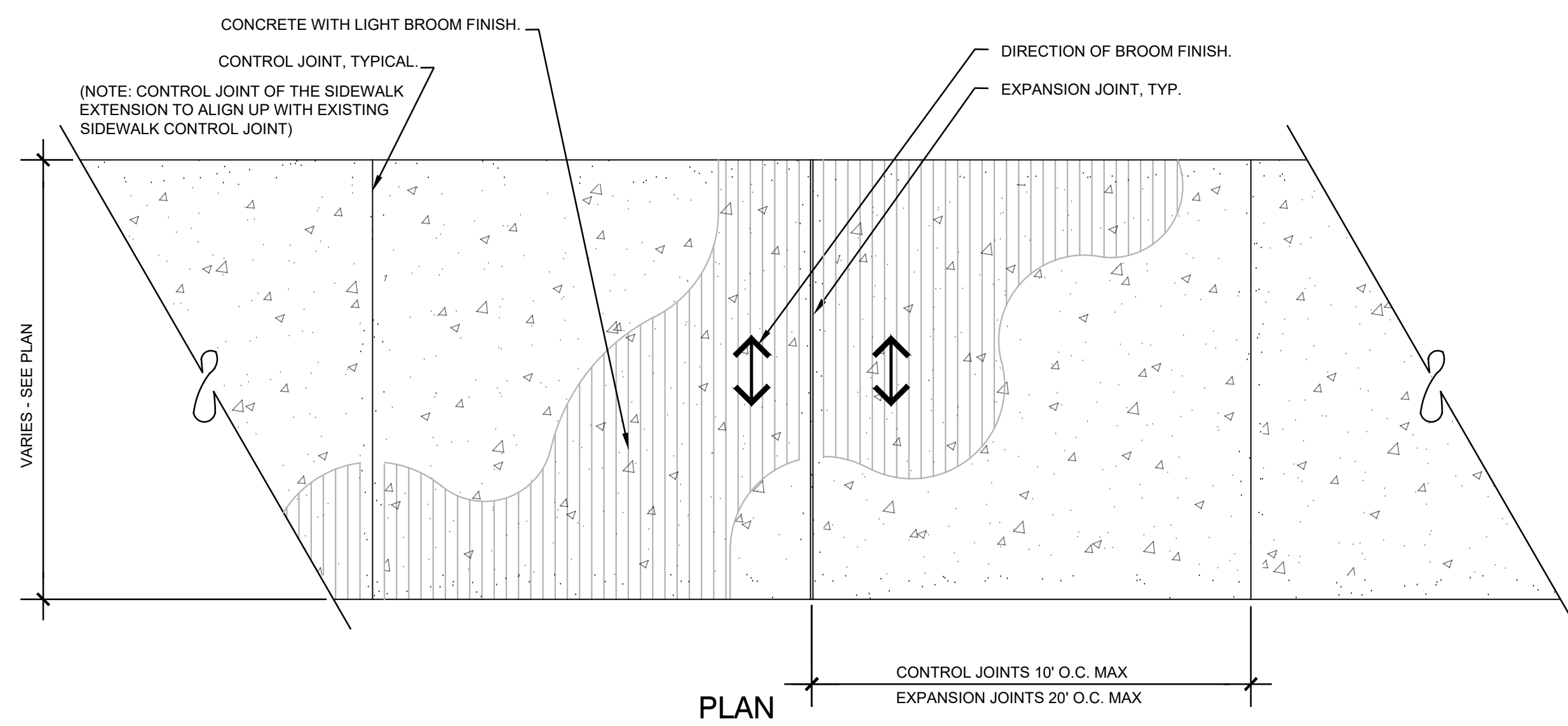
¹ National Stone Association
² At least 50% of the individual stone particles must be equal or larger than this listed size

GBWCC 2016 Edition 6-125

C-2

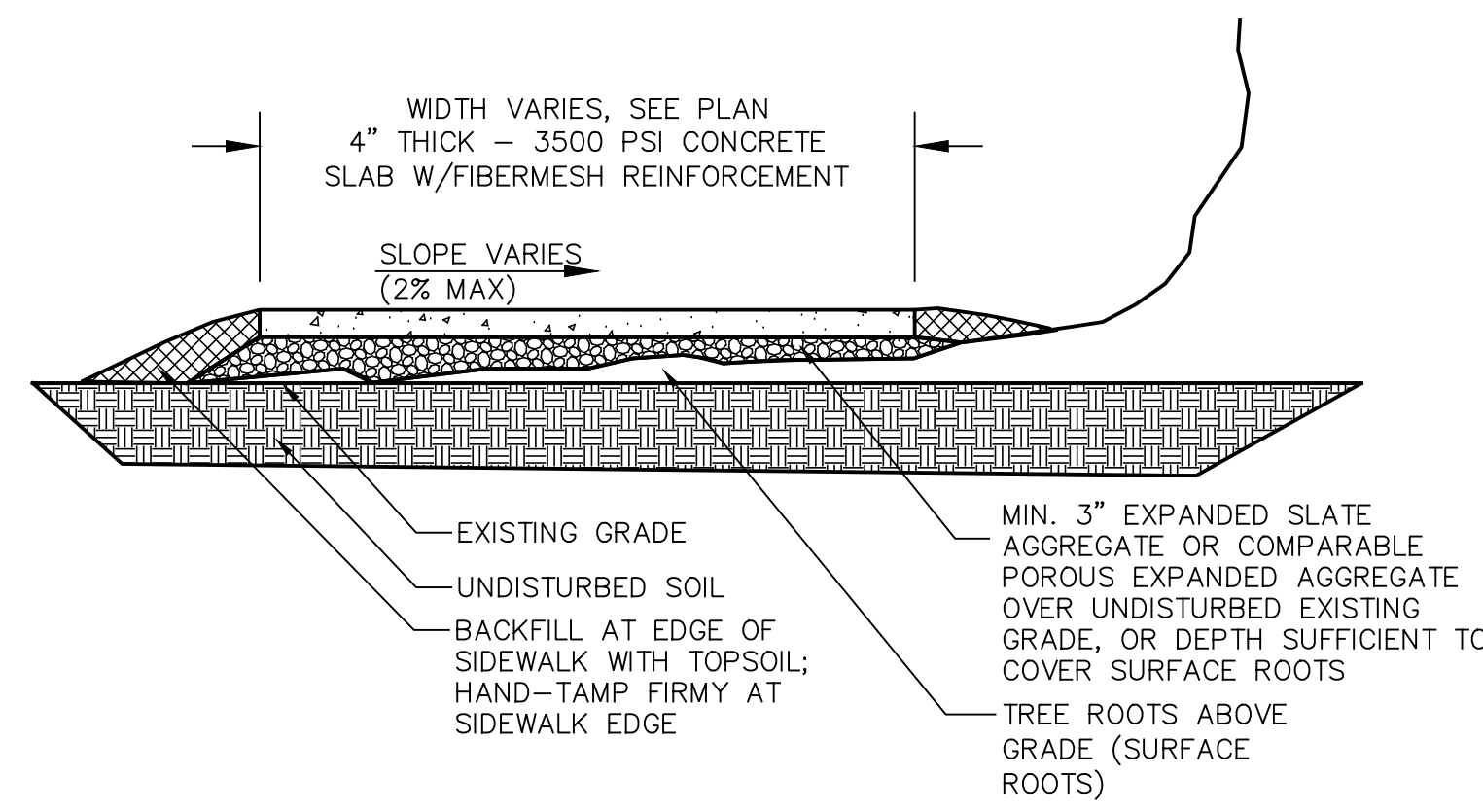


2016 SURVEY & 2019 UPDATED TREE SURVEY
TERRAMARK LAND SURVEYING, INC.
1306 BELLS TERRY ROAD
MARIETTA, GEORGIA 30066
PHONE NO. (770) 421-1927
FAX NO. (770) 421-0552
WWW.TERRAMARK.COM
C. O. A.# LSF000810

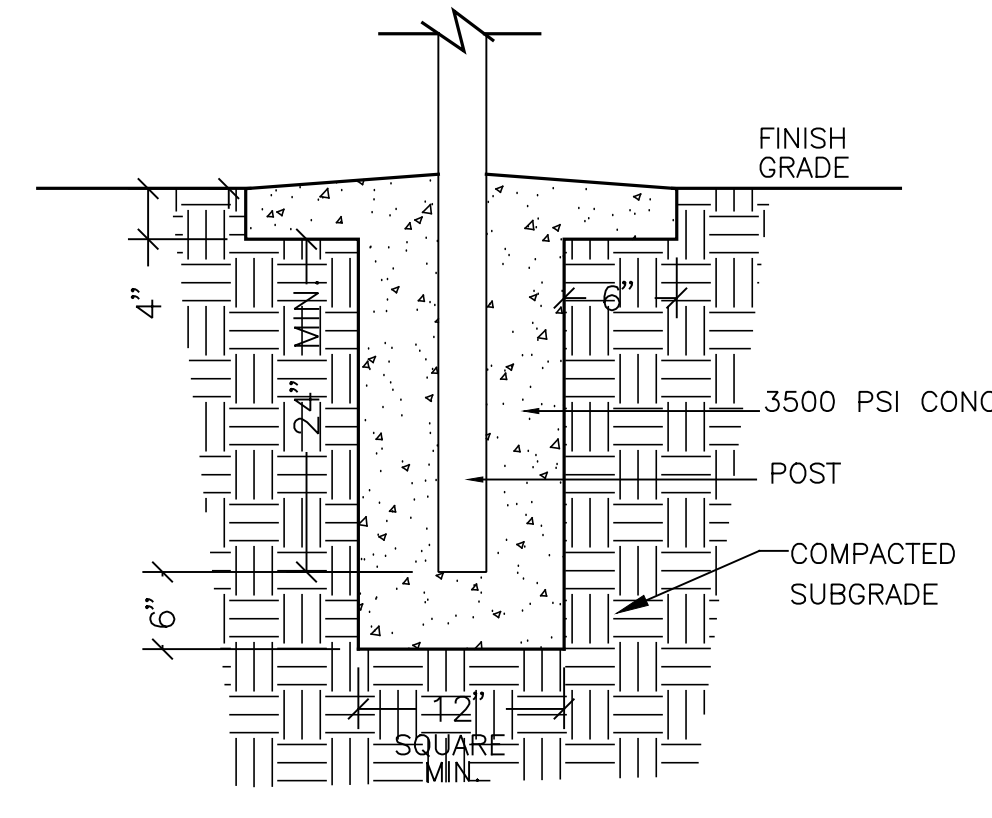


1 CONCRETE SIDEWALK
1-1/2"=1'-0"

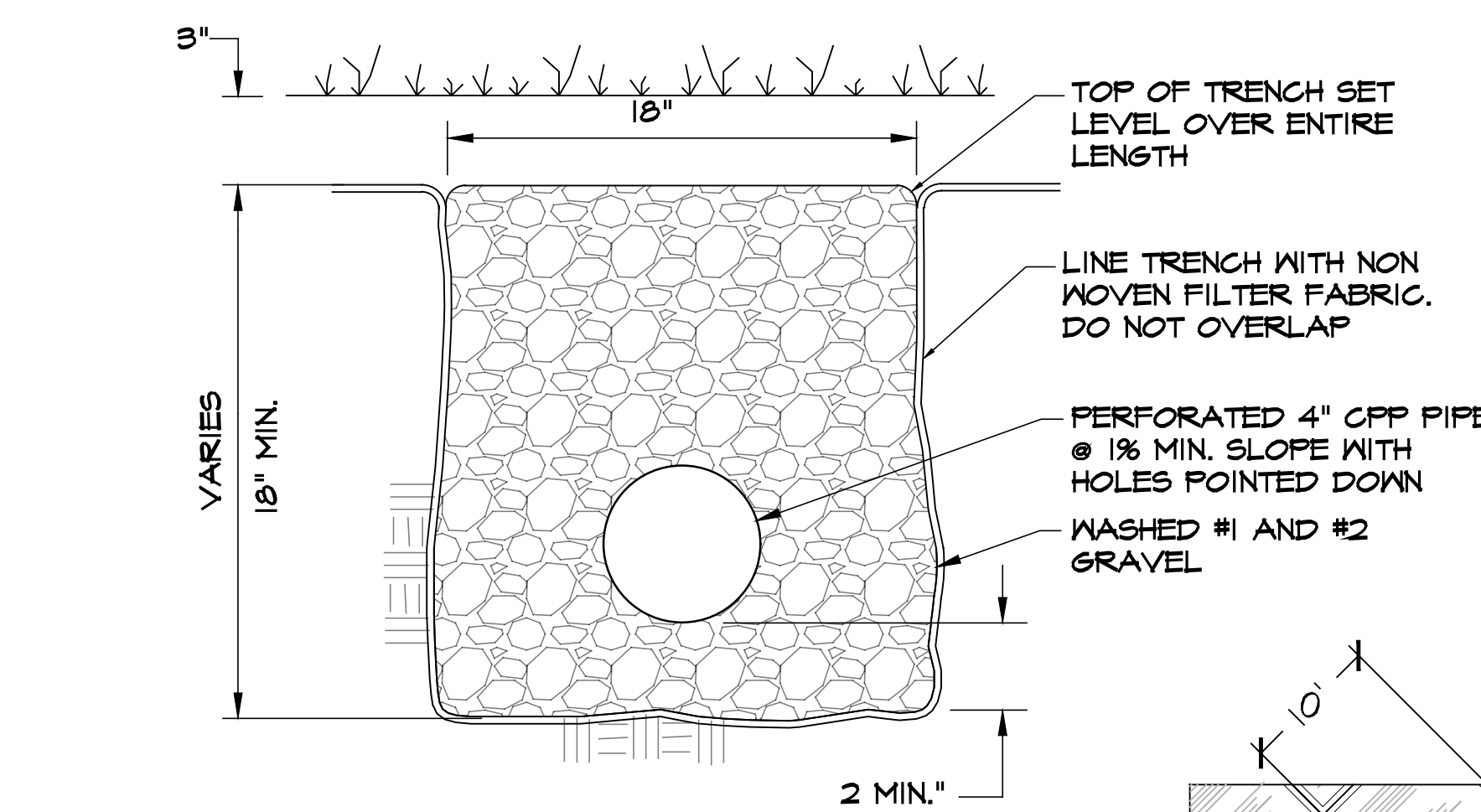
NOTE:
WHERE SIDEWALK PASSES CLOSE TO A TREE, CONTRACTOR SHALL "FLOAT" THE SIDEWALK ABOVE THE LEVEL OF EXISTING GRADE IN ORDER TO AVOID DAMAGE TO THE ROOTS. CONTRACTOR SHALL COORDINATE SUCH SPECIAL CONSTRUCTION IN THE FIELD WITH THE LANDSCAPE ARCHITECT OR OWNER REPRESENTATIVE.



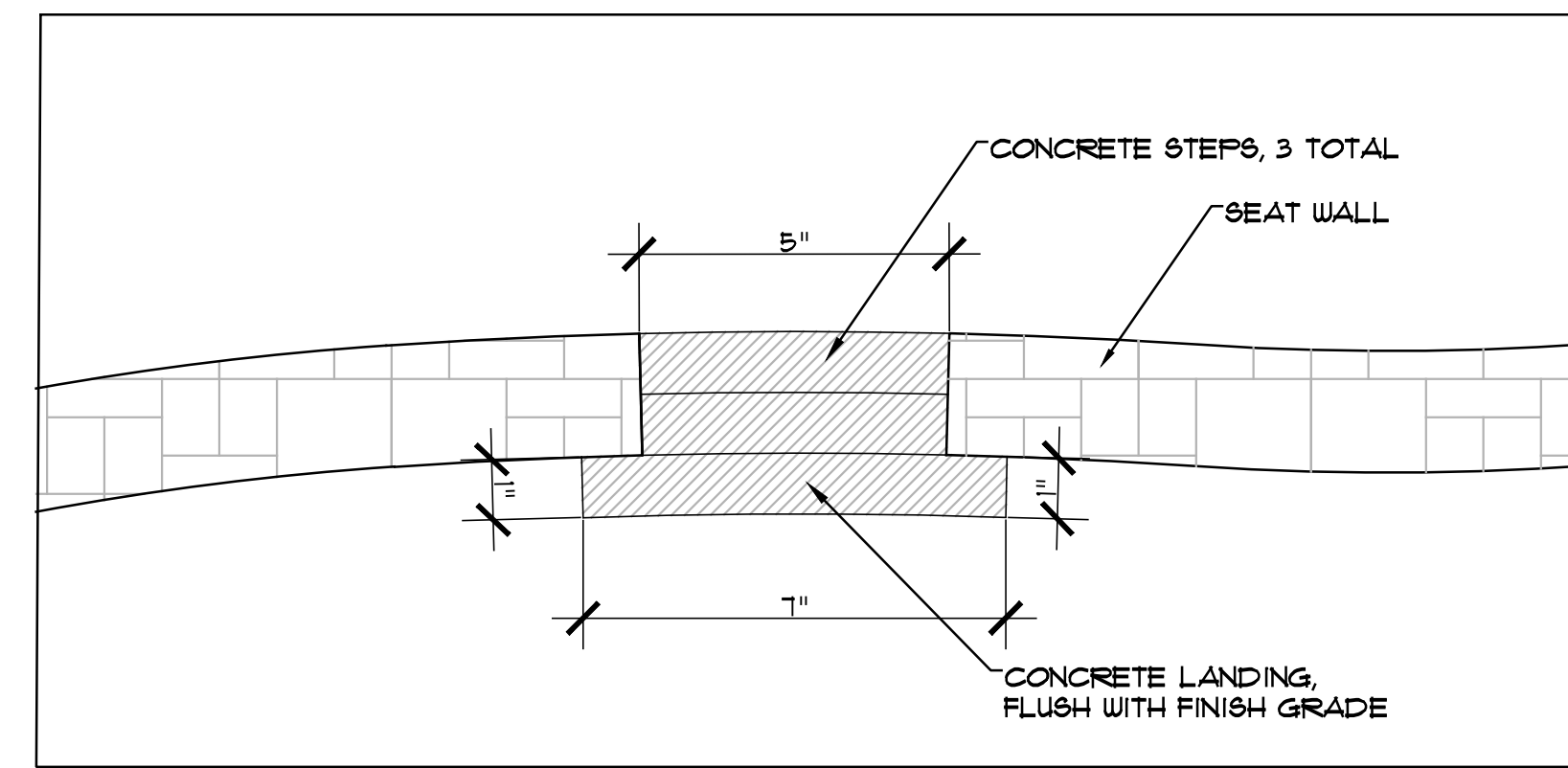
5 CONCRETE SIDEWALK OVER TREE ROOTS
NTS



7 PARK RULE SIGN
NTS

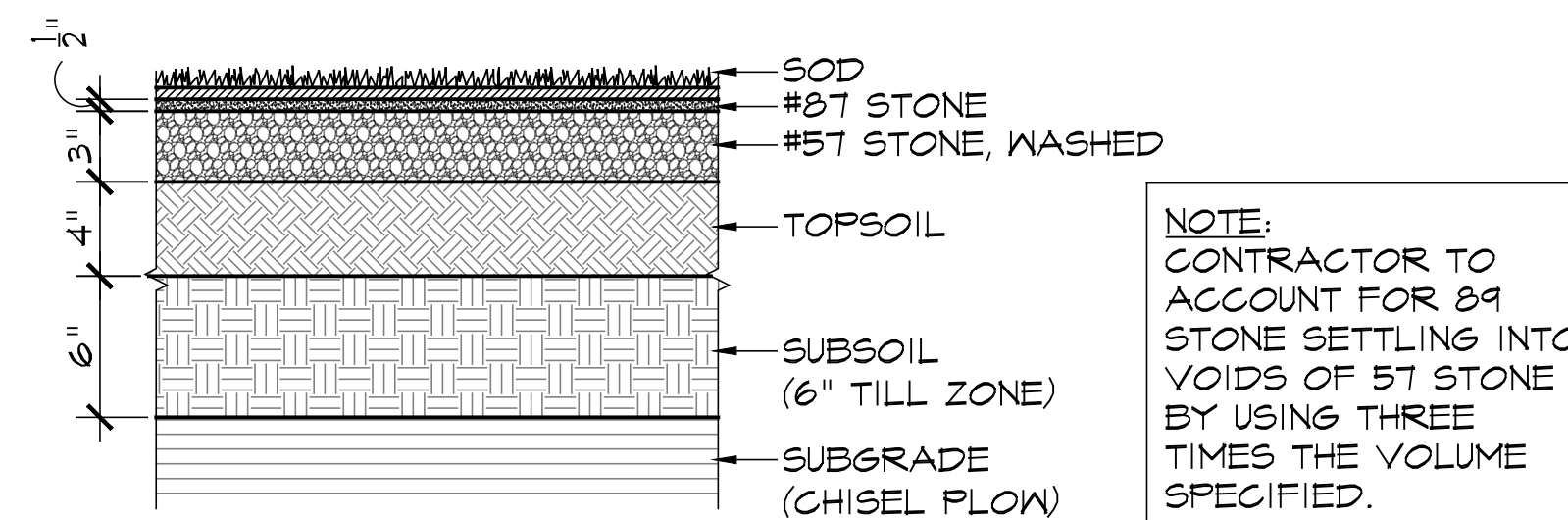


2 FRENCH DRAIN
NTS

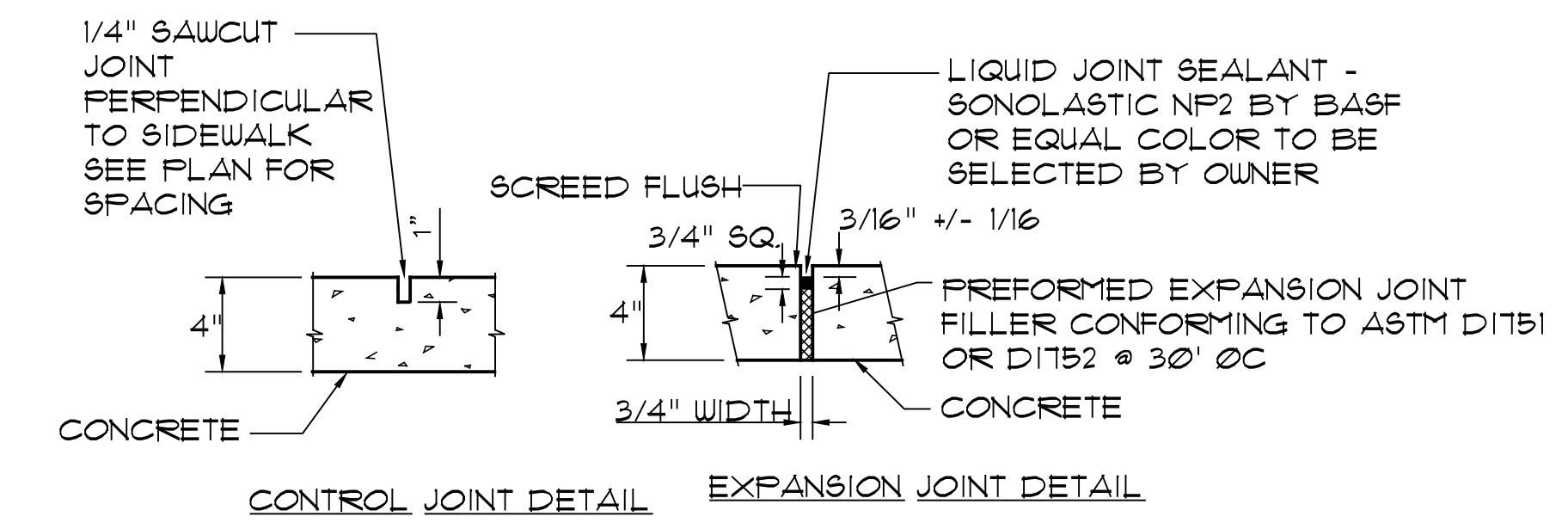


6 CONCRETE STEP, TYP.
NTS

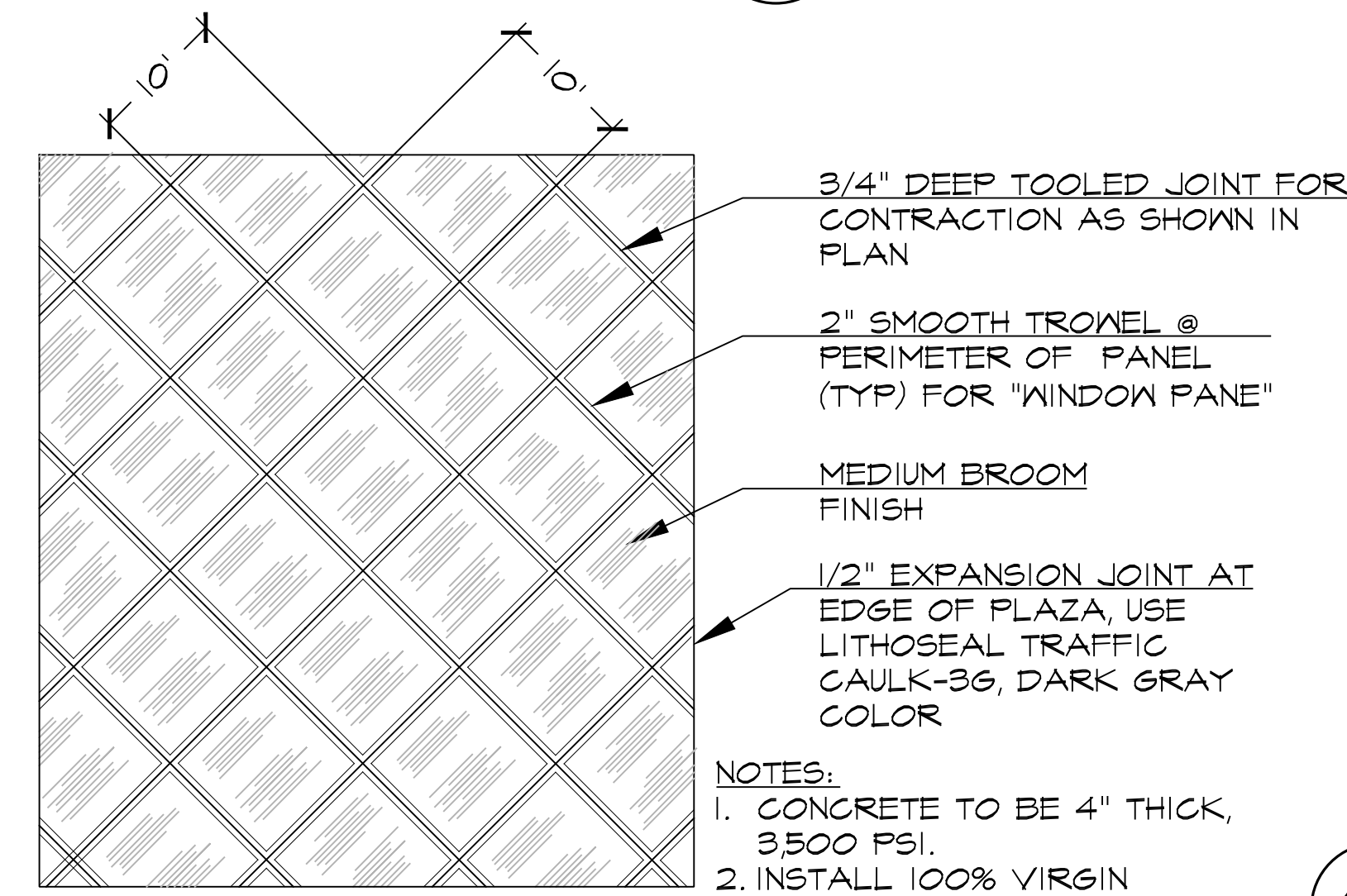
- SODDING PROCEDURE**
- ROUGH GRADE SUBSOIL.
 - CHISEL FLOW 12" DEEP AND SMOOTH OUT.
 - PLACE 3" OF TOPSOIL.
 - BROADCAST FERTILIZER.
 - TILL SOIL 6" DEEP TO CUT INTO SUBSOIL.
 - LAY #1 STONE - 4" DEEP AND SMOOTH OUT.
 - LAY #4 STONE AS LEVEL COURSE - 1/2" DEEP AND SMOOTH OFF.
 - SOAK STONE UNTIL DAMP.
 - LAY SOD.
 - KEEP DAMP UNTIL ROOTS TIE INTO TOPSOIL BASE.
 - DO NOT TOP DRESS WITH SAND UNTIL AFTER TURF IS LOCKED DOWN.



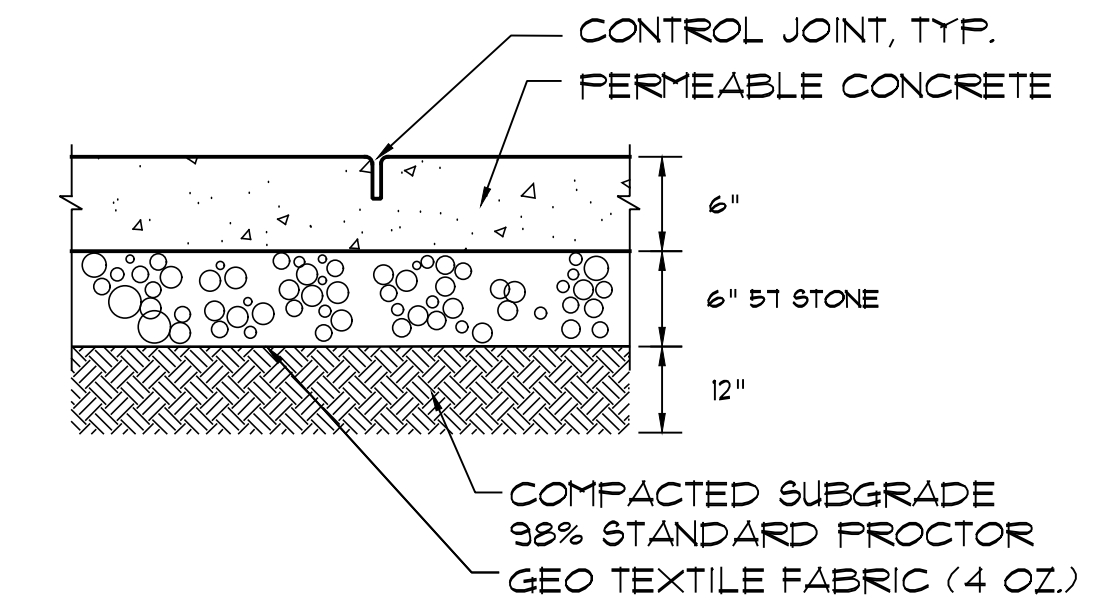
8 COMMUNITY GREEN TURF
NTS



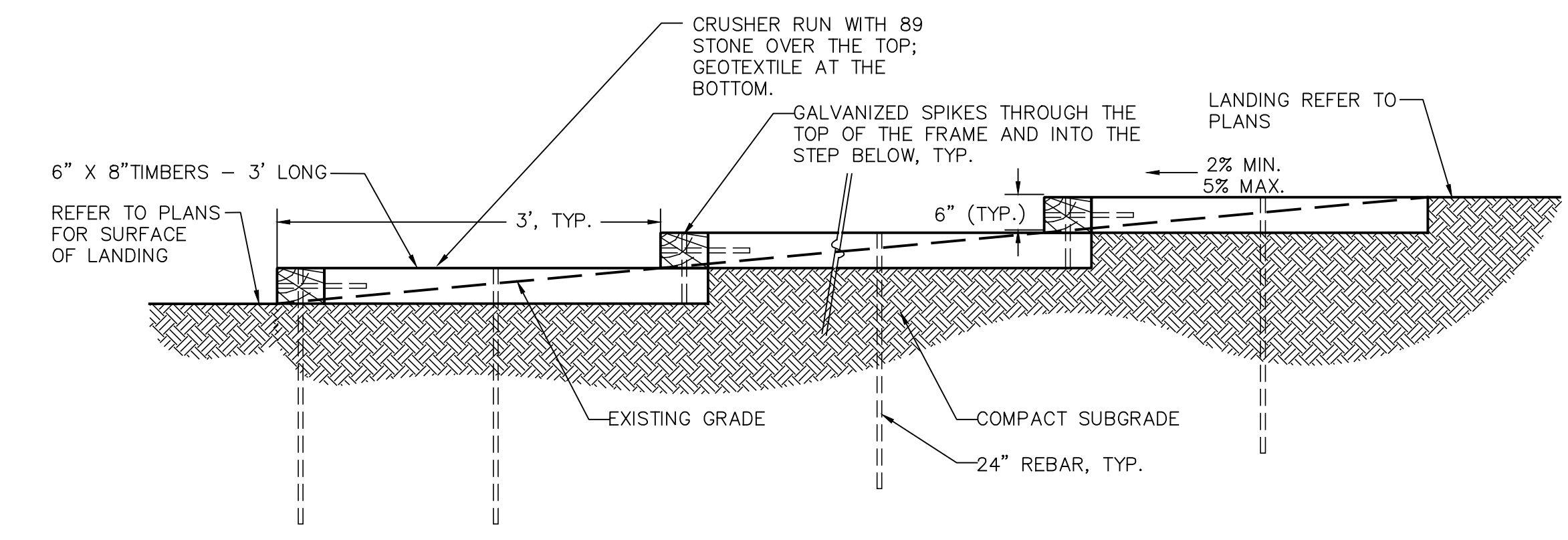
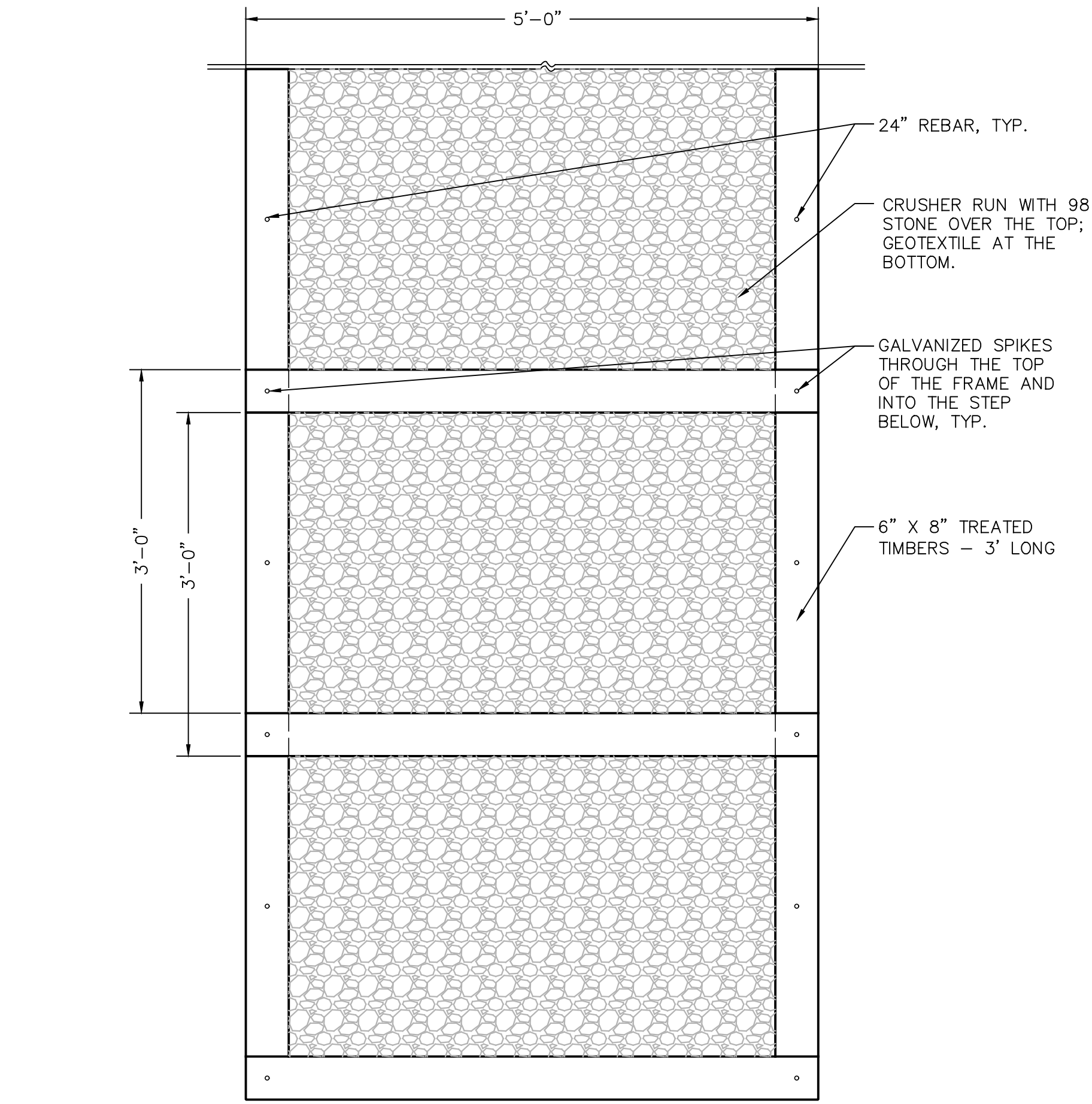
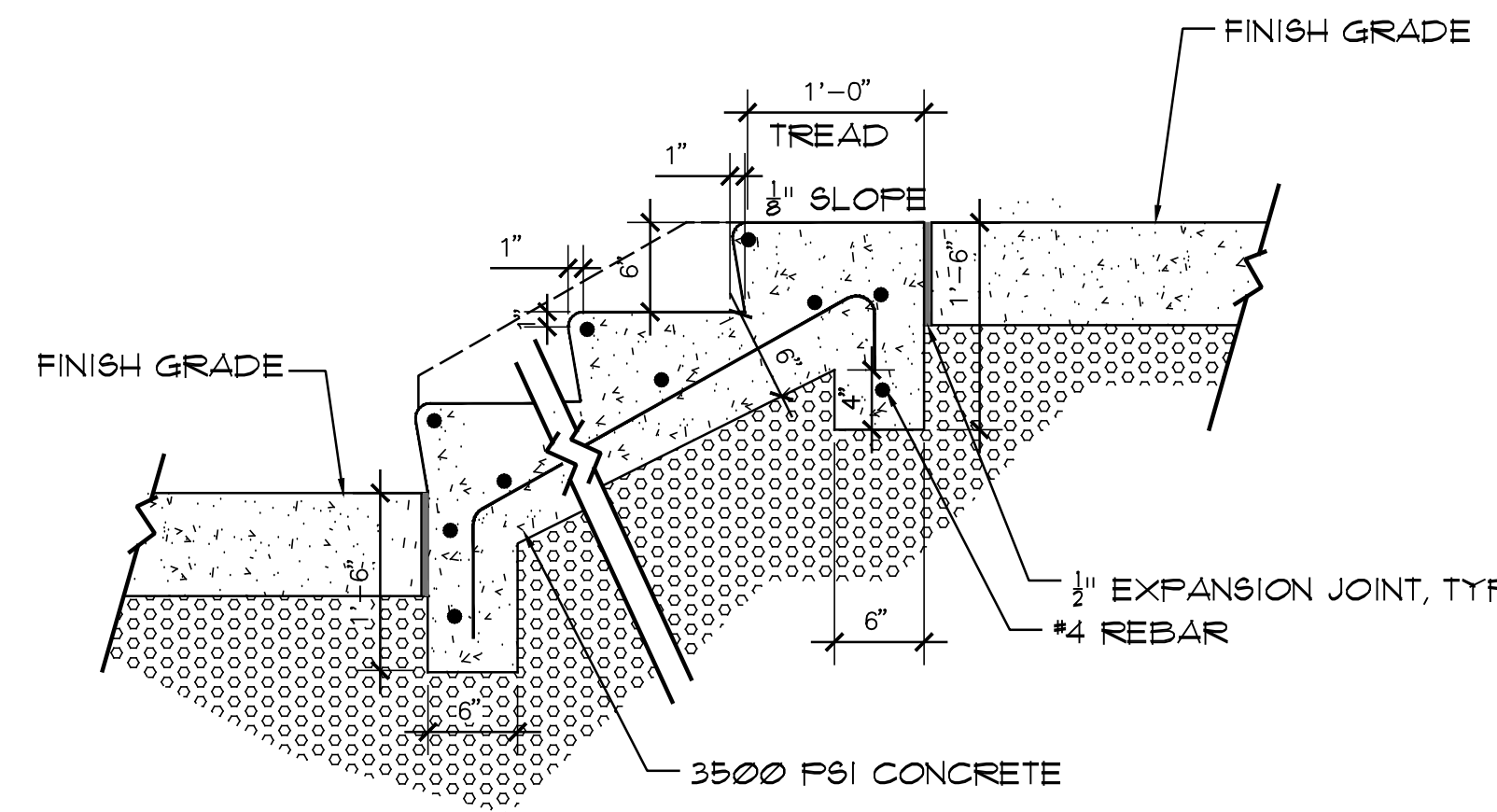
3 TYPICAL CONCRETE JOINT DETAILS
NTS



4A CONCRETE PLAZA SCORING PATTERN
NTS "WINDOW PANE"



4B PERVIOUS CONCRETE PAVEMENT
1"=1'-0"



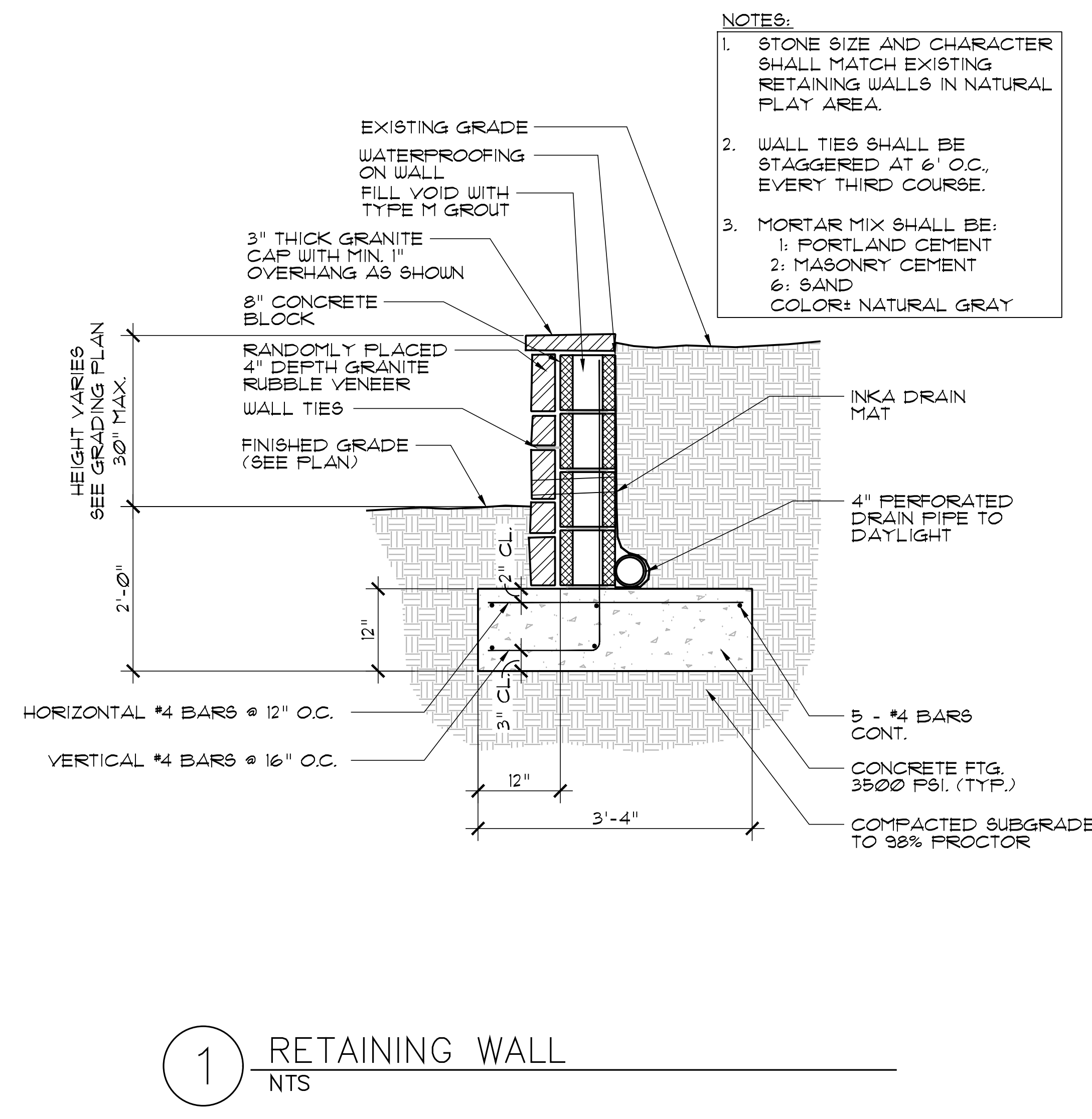
9 RAMP STEP, TYP.
NTS

No.	Date	Description
31	04/29	Multi-use Trail as Shown - Preboard Review
32	05/05	UFP - Community Green - City Council #1
33	05/14	UFP - Recreation - City Council #2
34	05/28	UFP - Community Green - City Council #3

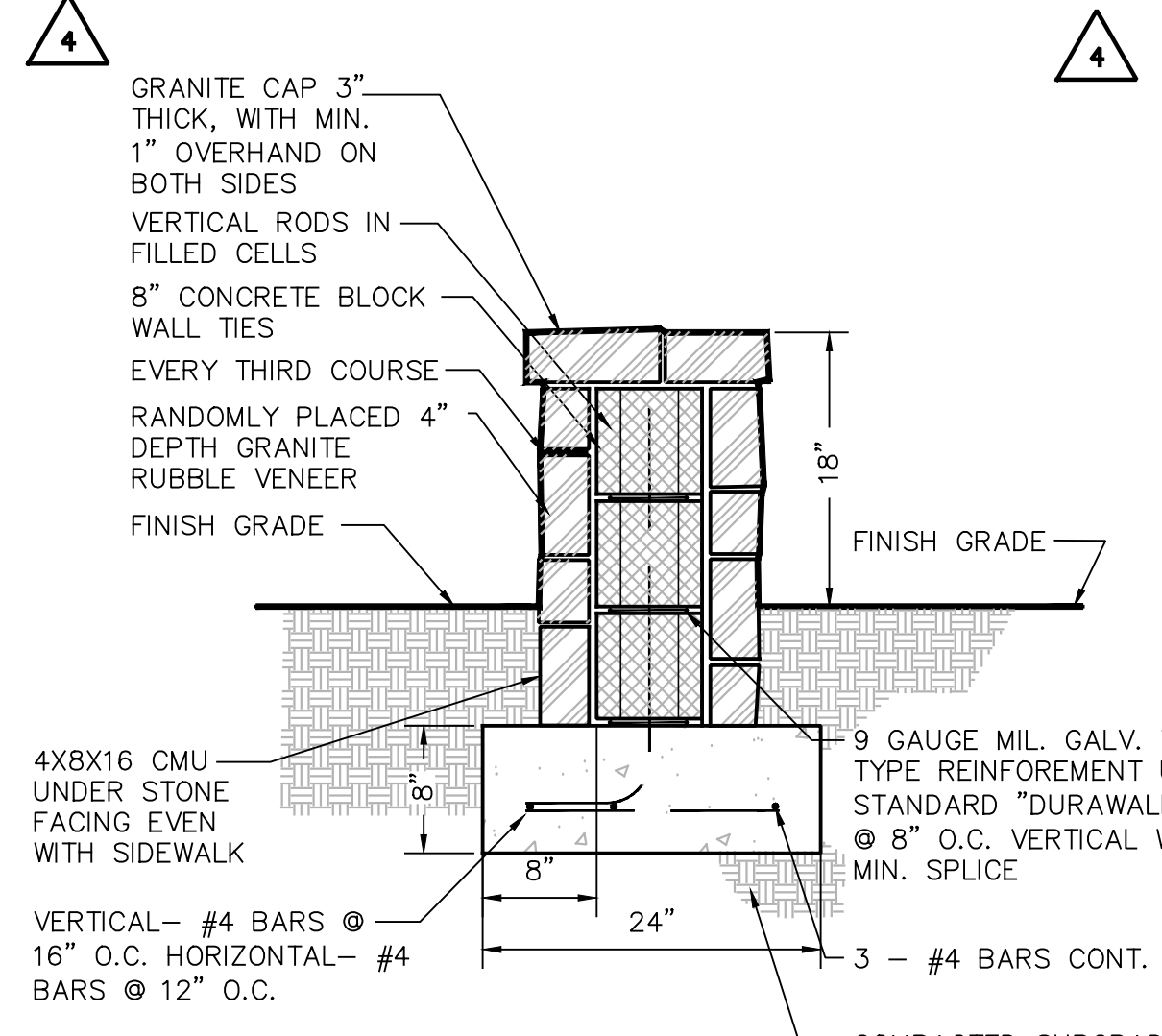
DATE	DRAWN	CHECKED
03/03/21	GZ	MC

SCALE
SHEET TITLE
SITE DETAILS
COMMUNITY
GREEN

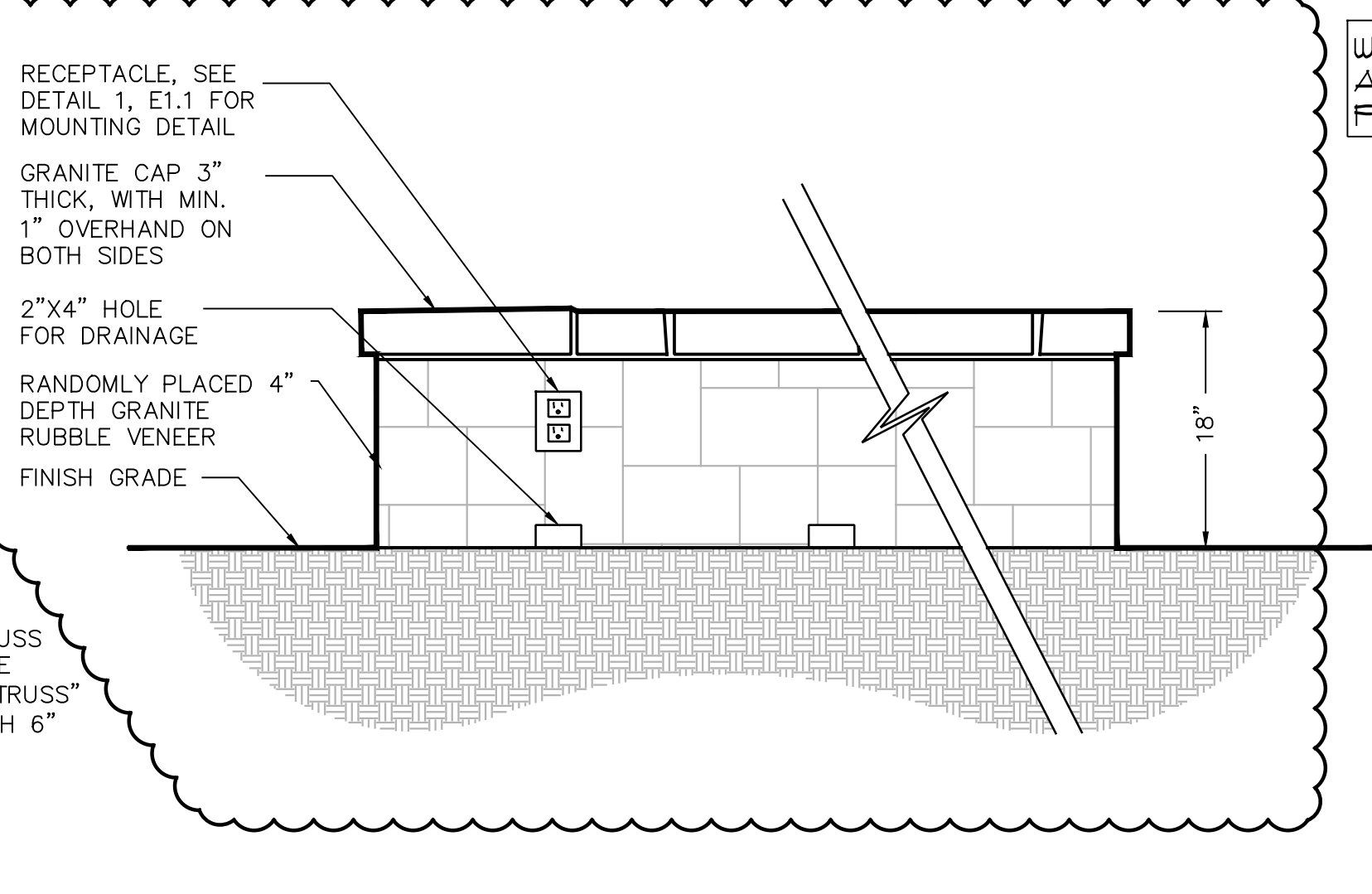
PROJECT NUMBER	15092.00
C8.2A	
DRAWING NUMBER	



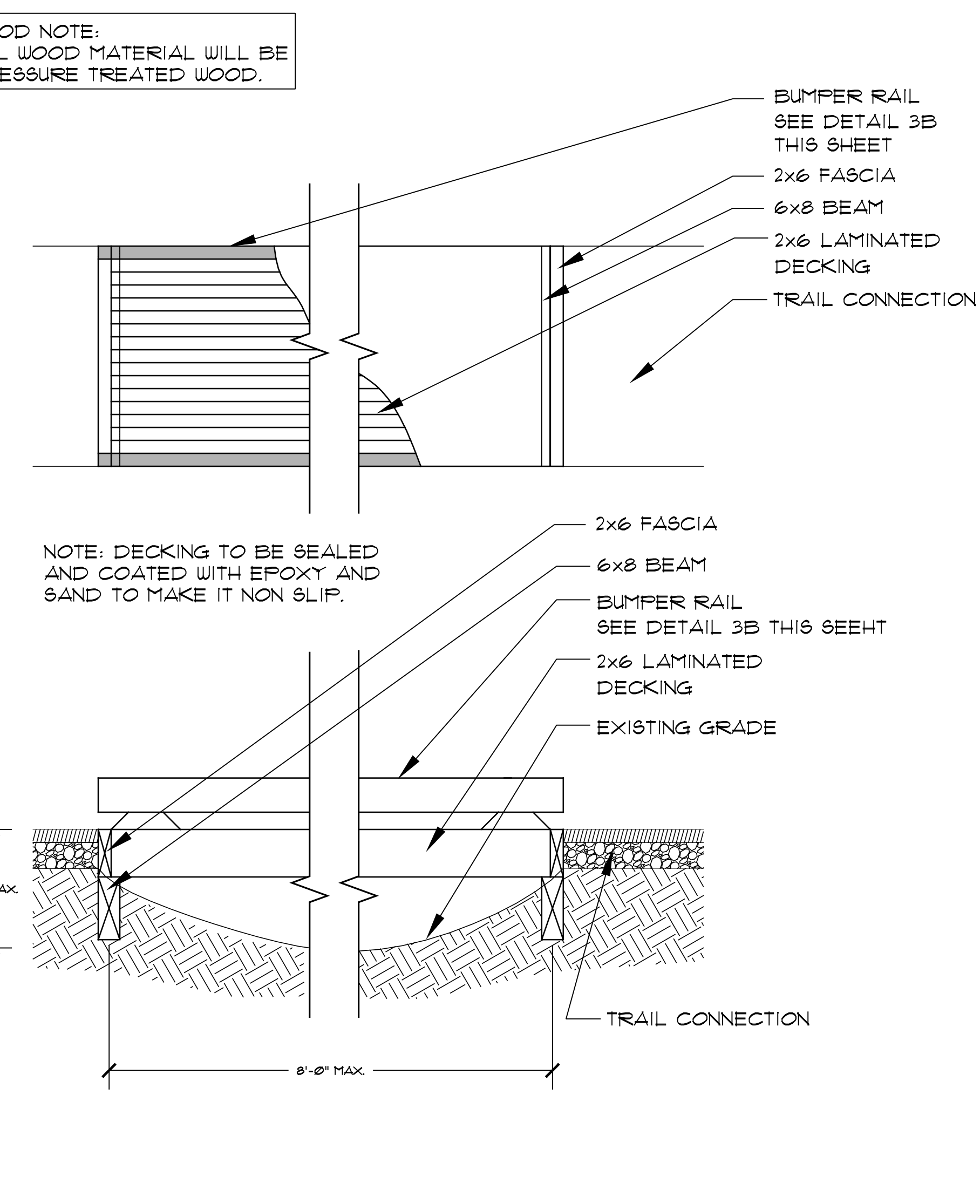
1 RETAINING WALL
1"=1'-0"



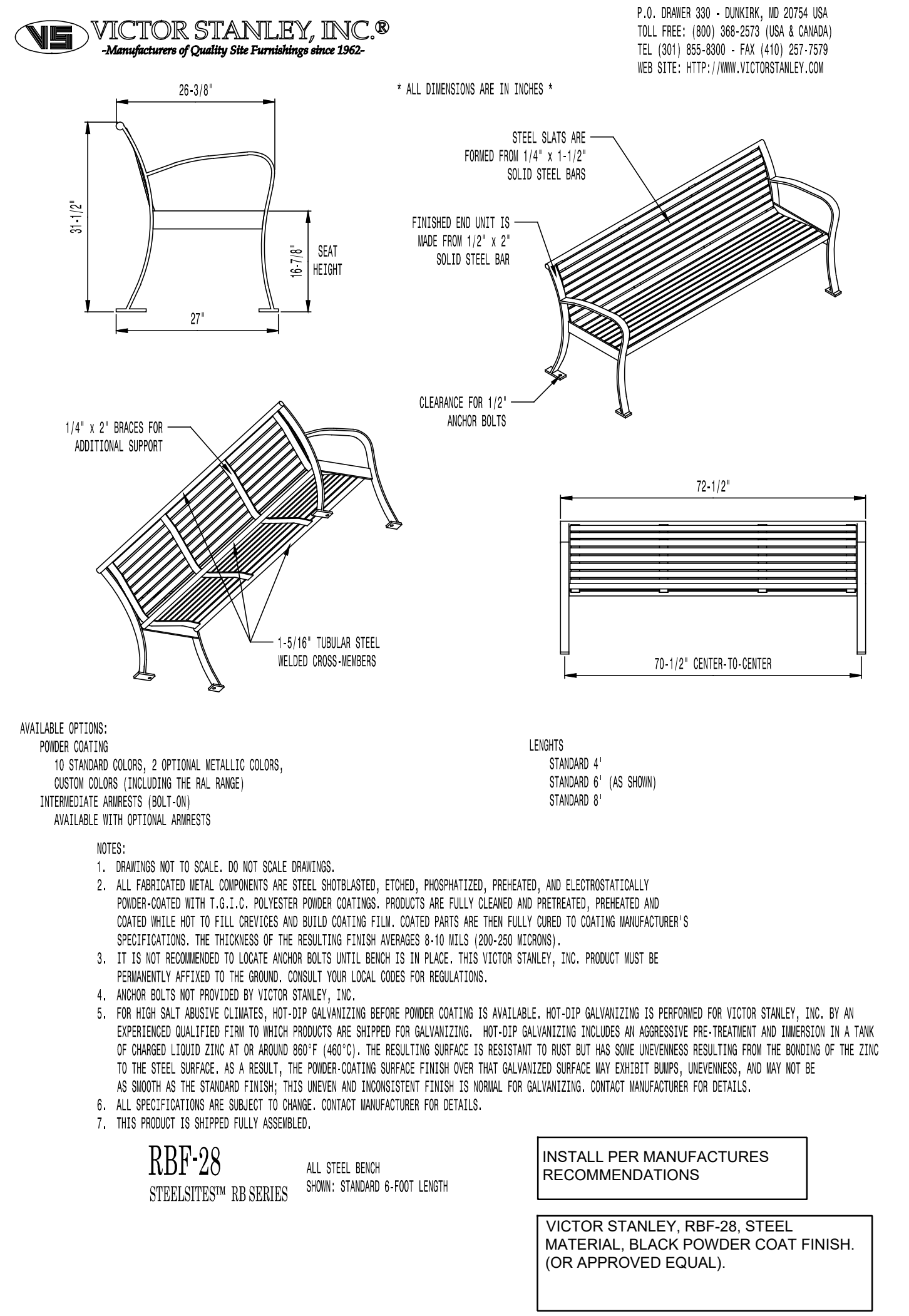
2 SEAT WALL
1"=1'-0"



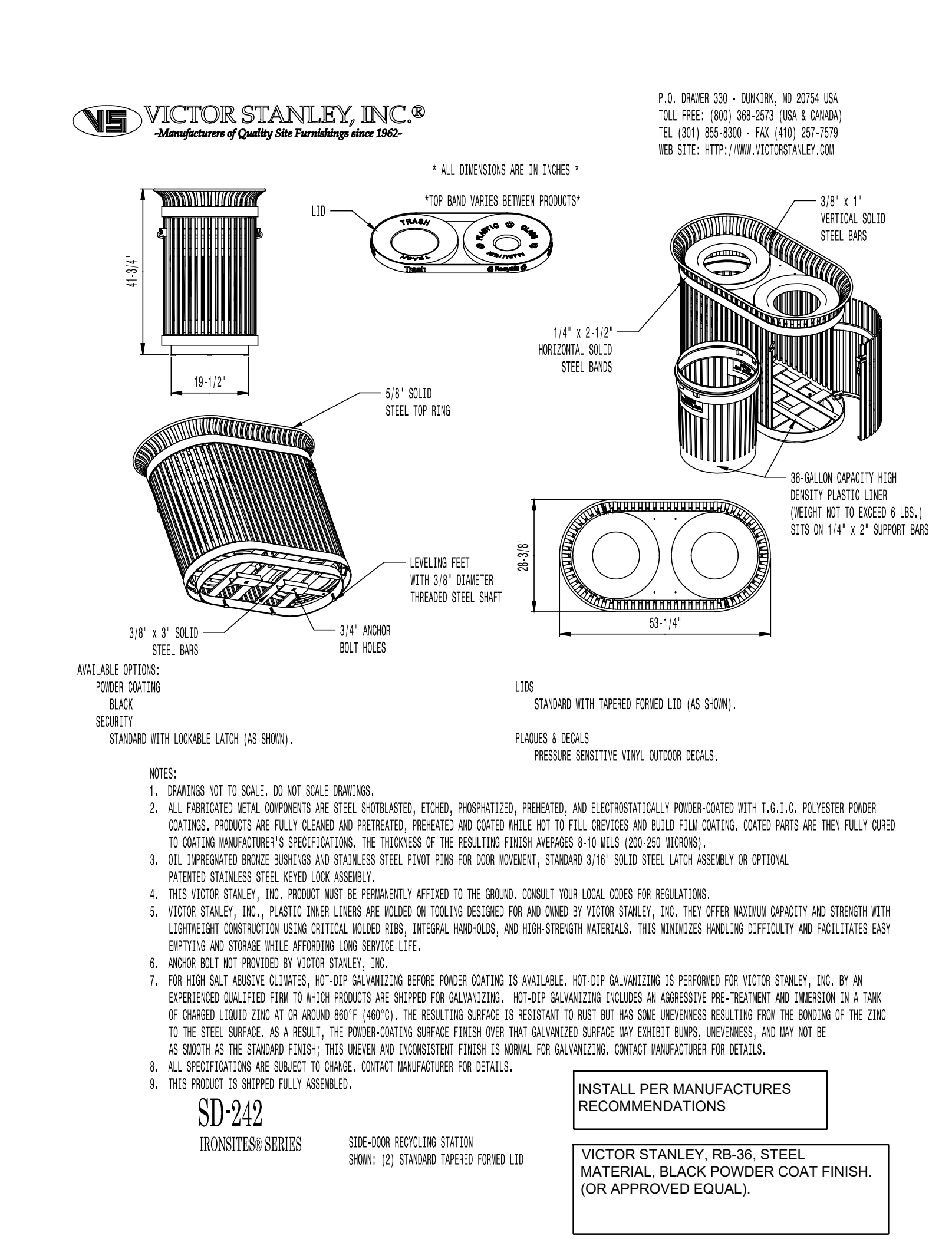
3B BUMPER RAIL
1"=1'-0"



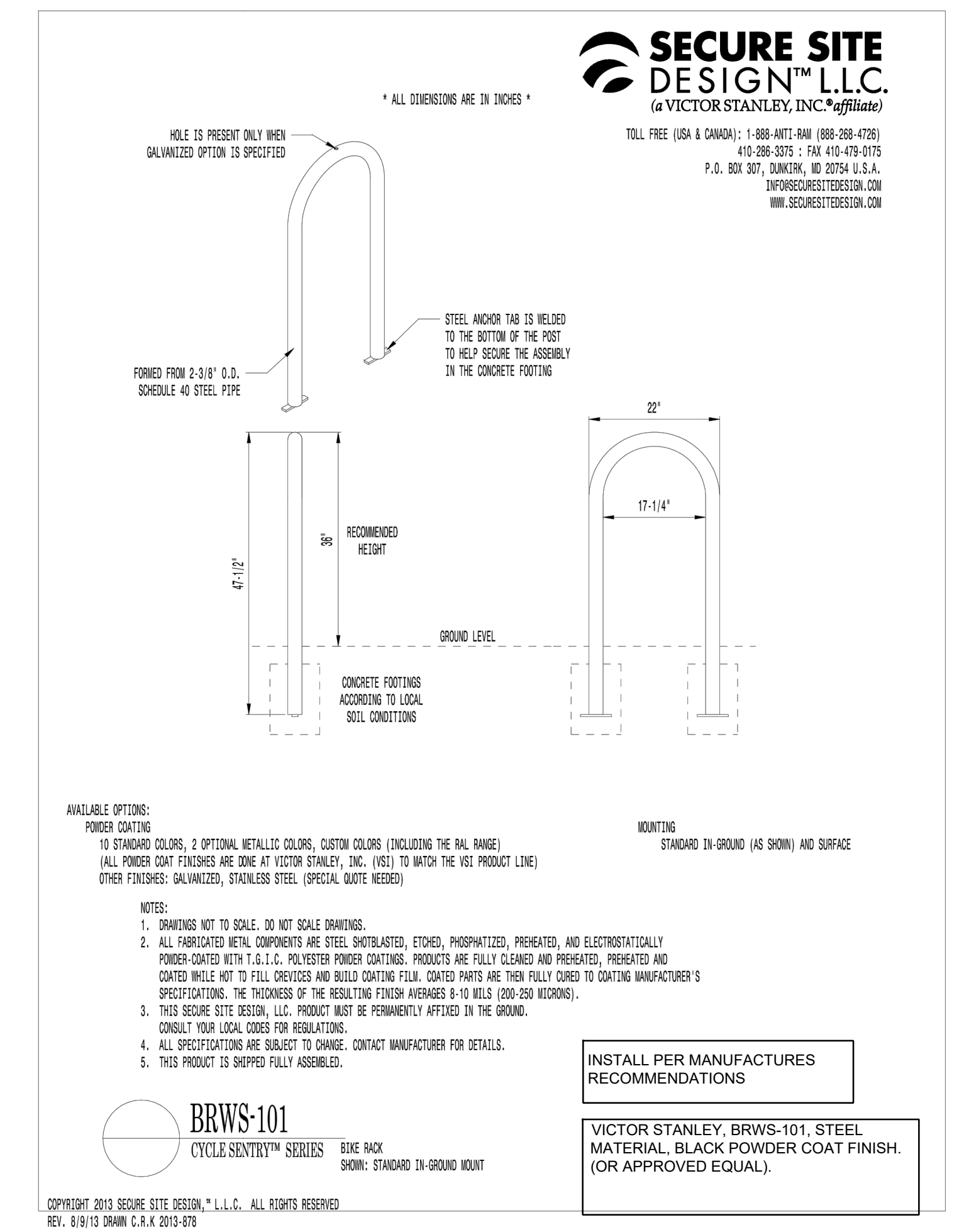
3A FOOTBRIDGE
1"=1'-0"



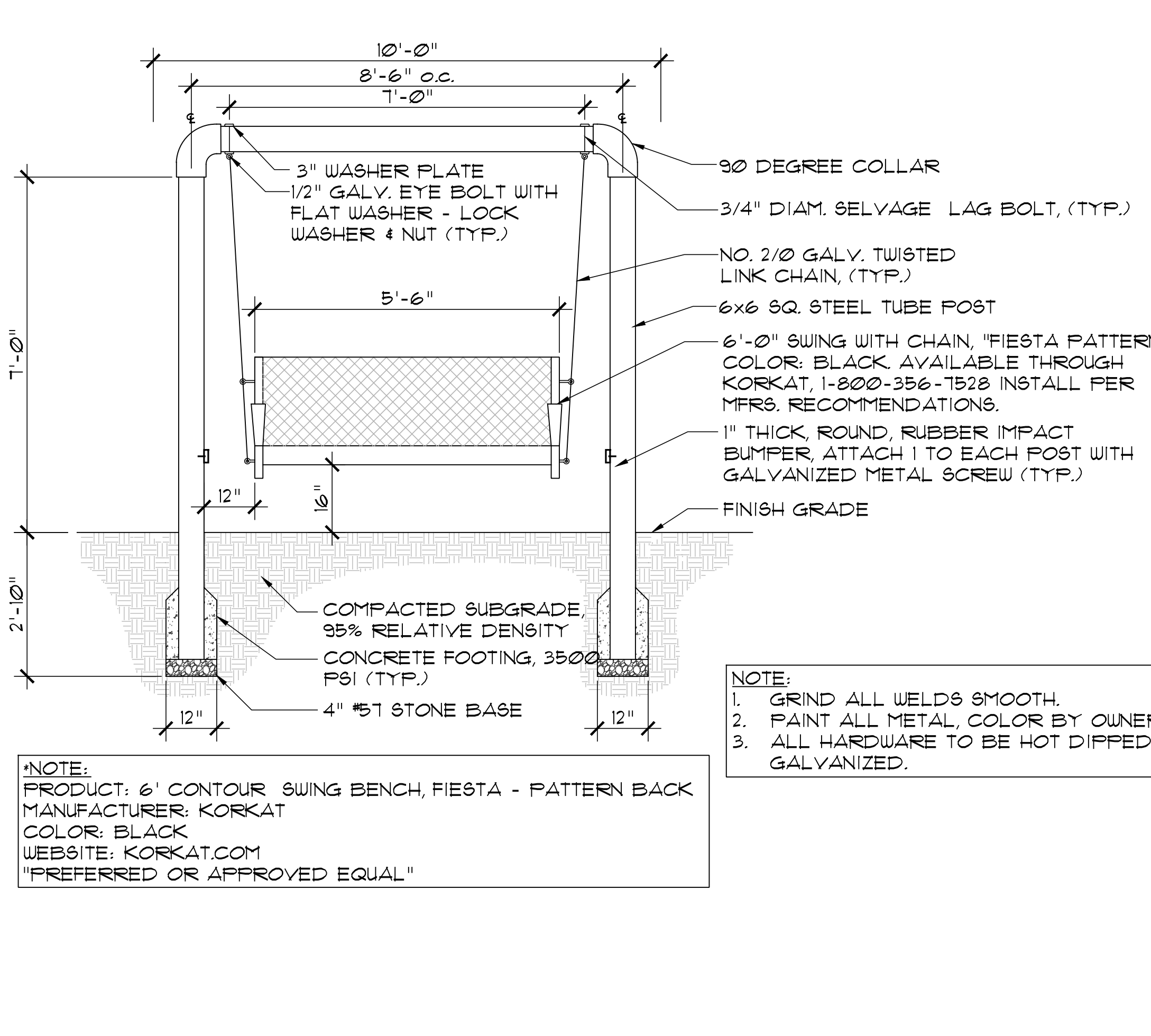
4 BENCH
1"=1'-0"



5 TRASH CAN
1"=1'-0"



6 BIKE RACK
1"=1'-0"



7 SWING BENCH
1"=1'-0"

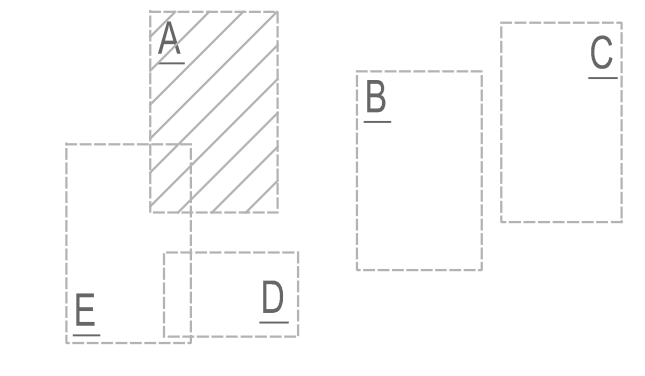
DRAWINGS SCHEDULE

No.	Date	Description
31	04/29	Multi-use Trail at Dan - Product Review
32	05/05	APP - Community Center - City Council

DATE	DRAWN	CHECKED
03/03/21	GZ	MC

SHEET TITLE
SITE DETAILS
COMMUNITY GREEN

PROJECT NUMBER	15092.00
C8.2B	
DRAWING NUMBER	



DRAWINGS SCHEDULE

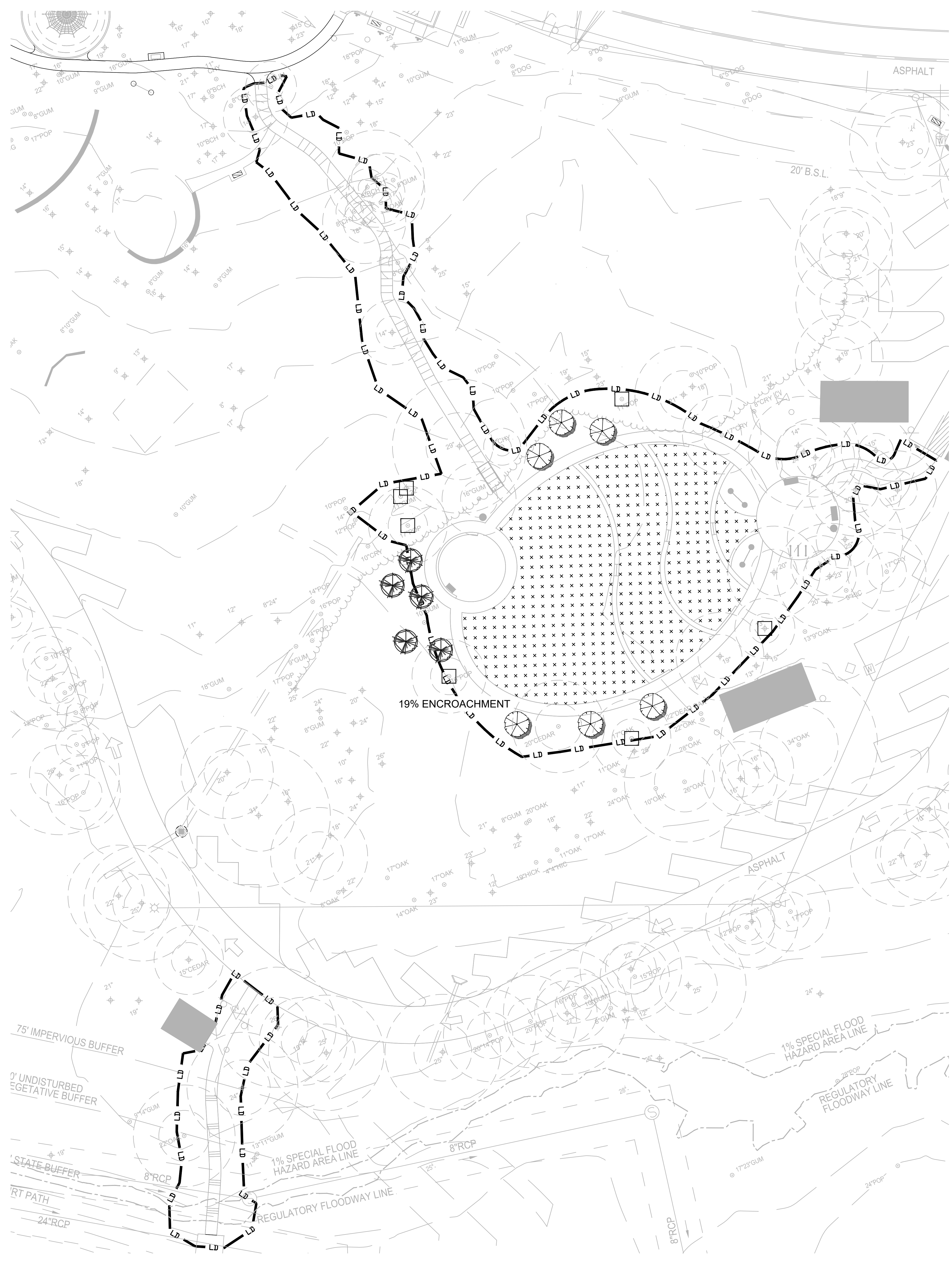
No.	Date	Description
11	08/17	LDP - South Trail - City Comment #2
12	08/17	LDP - South Trail - City Comment #1
13	10/13	LDP - Foot Parking - City Comment #1
14	10/16	LDP - Habitat Play Area Field Change #1
15	10/19	Multisite Trail in Date - Pedestrian Review
16	11/18	LDP - Foot Parking - City Comment #2
17	11/20	LDP - Community Green - City Comment #2
18	11/20	LDP - Community Green - City Comment #1
19	11/20	NORTH BOUNDARY LINE DISCHARGED



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
 1551 W. NANCY CREEK DRIVE NE
 BROOKHAVEN, GEORGIA 30319

DATE	DRAWN	CHECKED
04/23/20	BM	GZ
SCALE		
SHEET TITLE		
PLANTING PLAN COMMUNITY GREEN		

PROJECT NUMBER	15092.00
CAD NUMBER	C9.2A2
DRAWING NUMBER	



TREE DENSITY CALCULATION

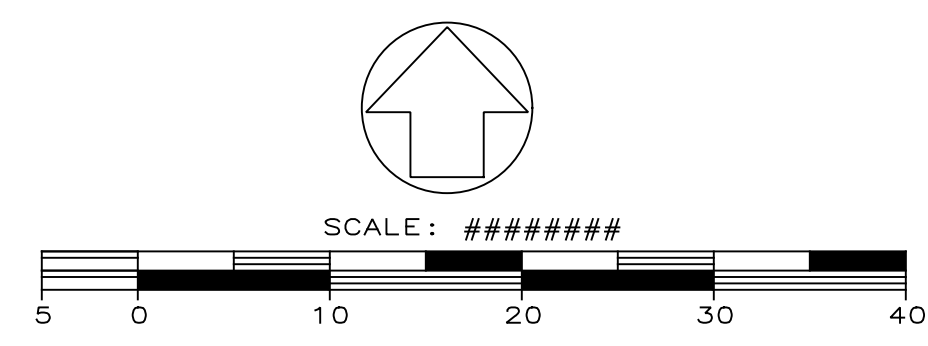
NO.	TREES	DBH	NOTES
1	PINE	22	TREE REMAINED
2	SWEETGUM	11	TREE REMAINED
3	POPLAR	17	TREE REMAINED
4	POPLAR	16	TREE REMAINED
5	OAK	17	TREE REMAINED
6	PINE	13	TREE REMAINED
7	POPLAR	11	TREE REMAINED
8	FLOWERING DOGWOOD	3X5	NEW TREE
9	EASTERN REDBUD	3X6	NEW TREE

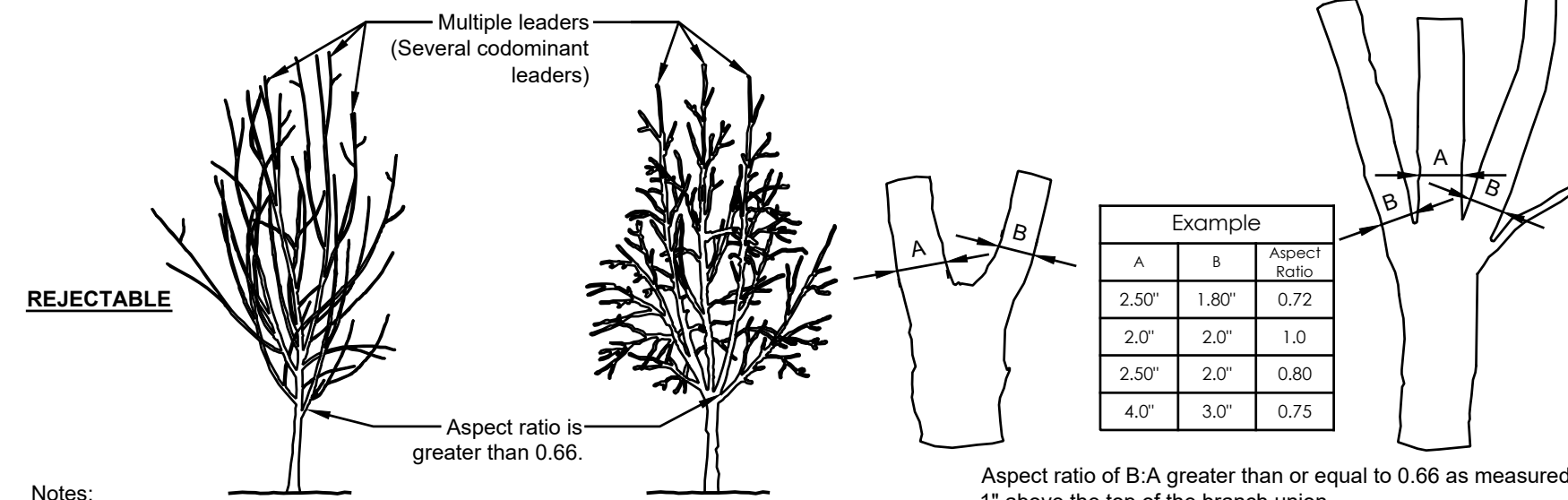
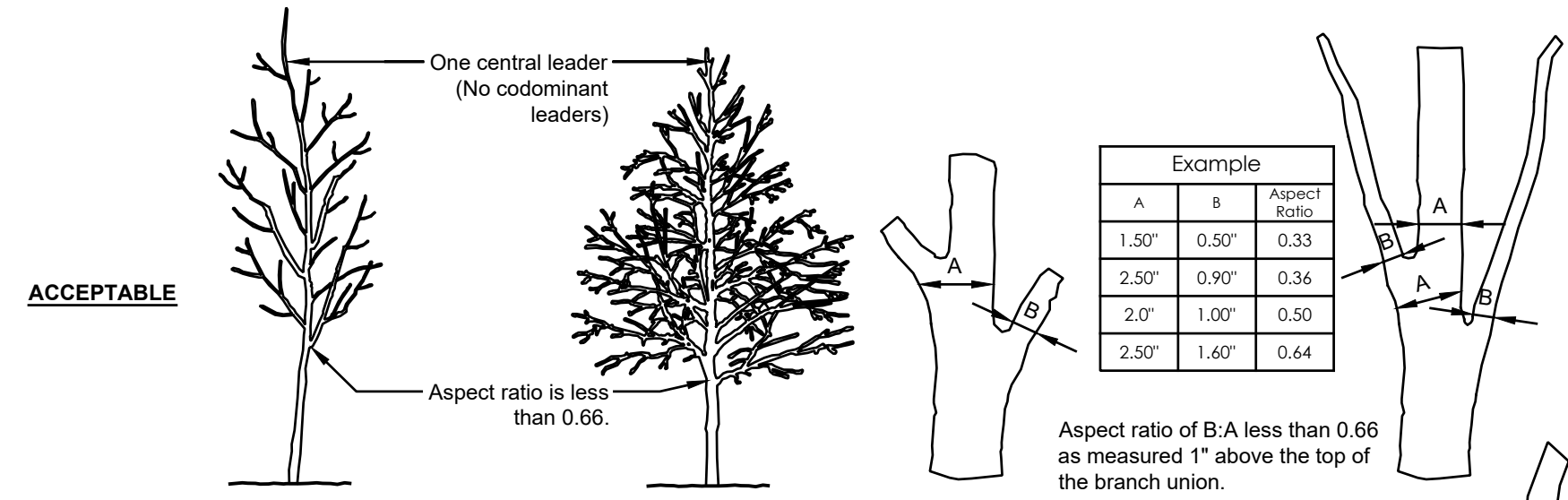
TREE COUNTED TOWARDS DENSITY
 TOTAL AREA: 0.73 AC; TOTAL DBH: 140
 TREE DENSITY: 191 DBH/AC

Drawing Name: S:\Project\Brookhaven, C\Murphey Candler\0 Design\01 Job Info\CAD\C9 Series_LCP-PLANTING Details.dwg
 Date last accessed: 11/22/2020 3:04 PM
 Plotted By: Grace Zhang
 Date last plotted: 11/22/2020 9:44 AM



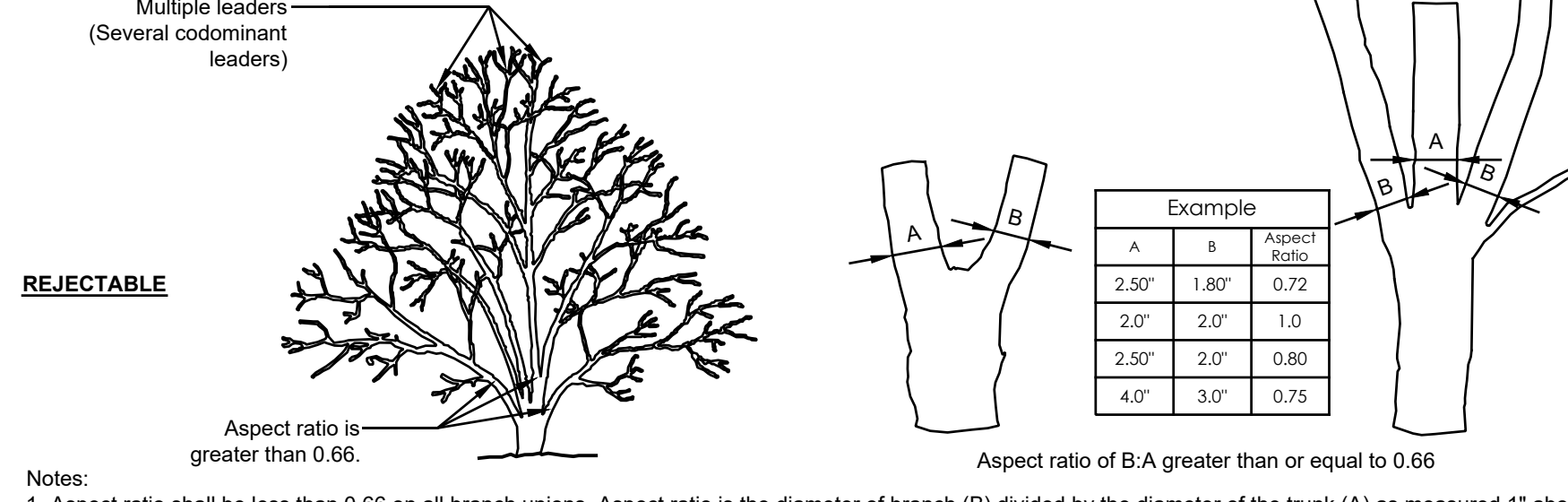
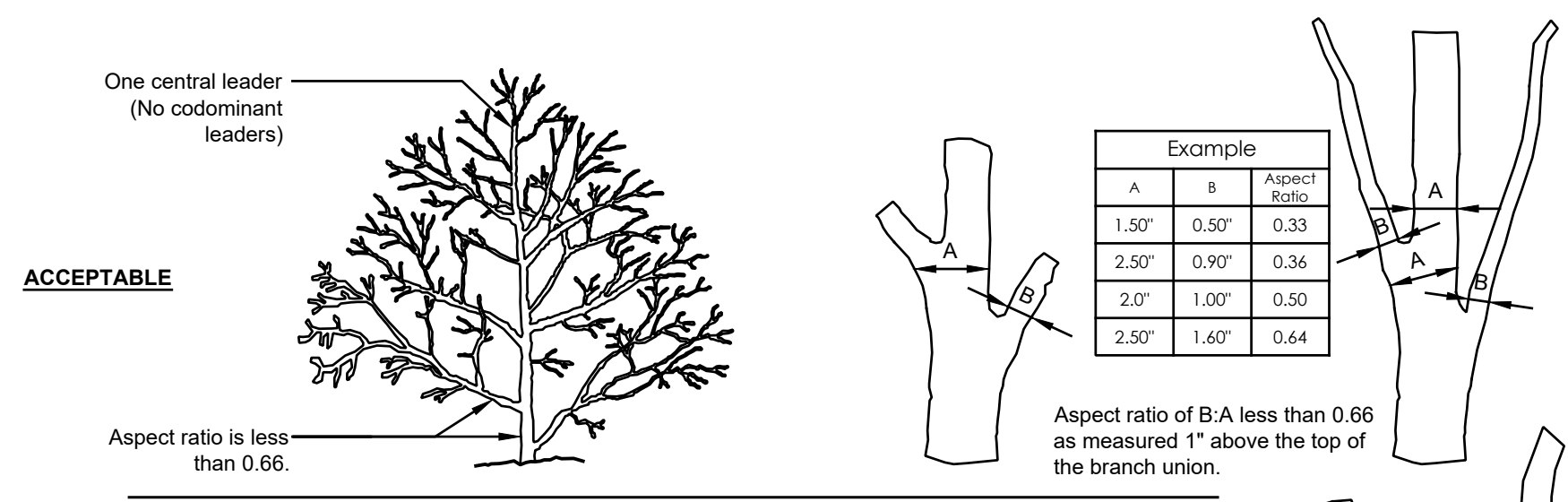
2016 SURVEY & 2019 UPDATED TREE SURVEY
TERRAMARK LAND SURVEYING, INC.
 1306 BELLS FERRY ROAD
 MARIETTA, GEORGIA 30066
 PHONE NO. (770) 421-1927
 FAX NO. (770) 421-0552
 WWW.TERRAMARK.COM
 C. O. A.# LSF000610





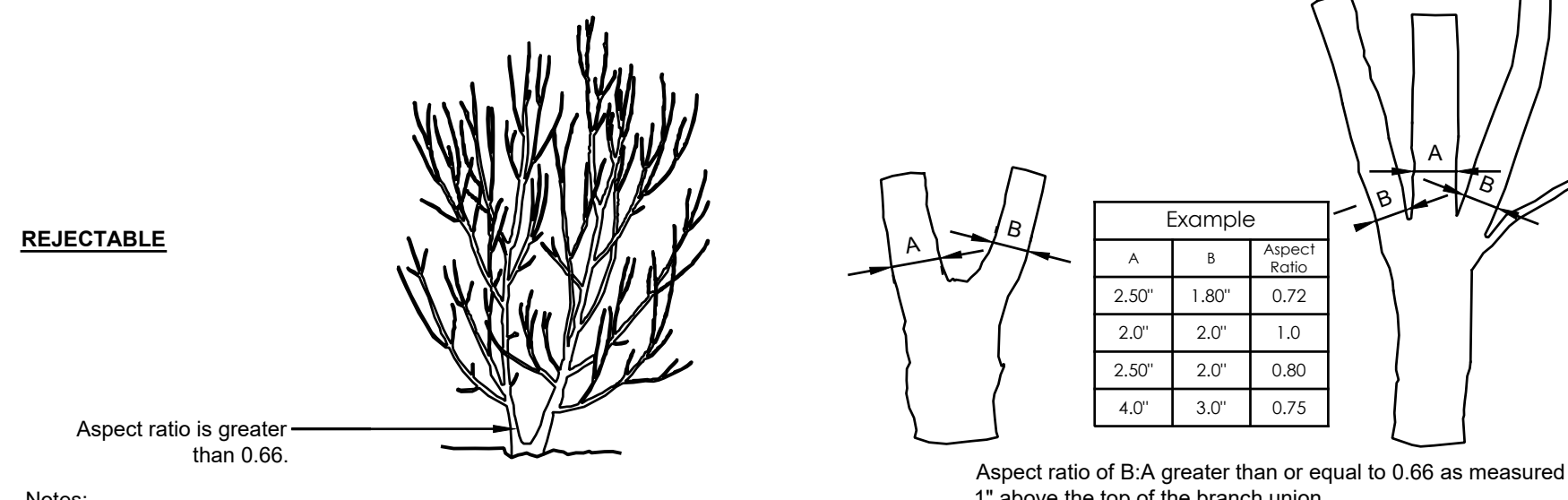
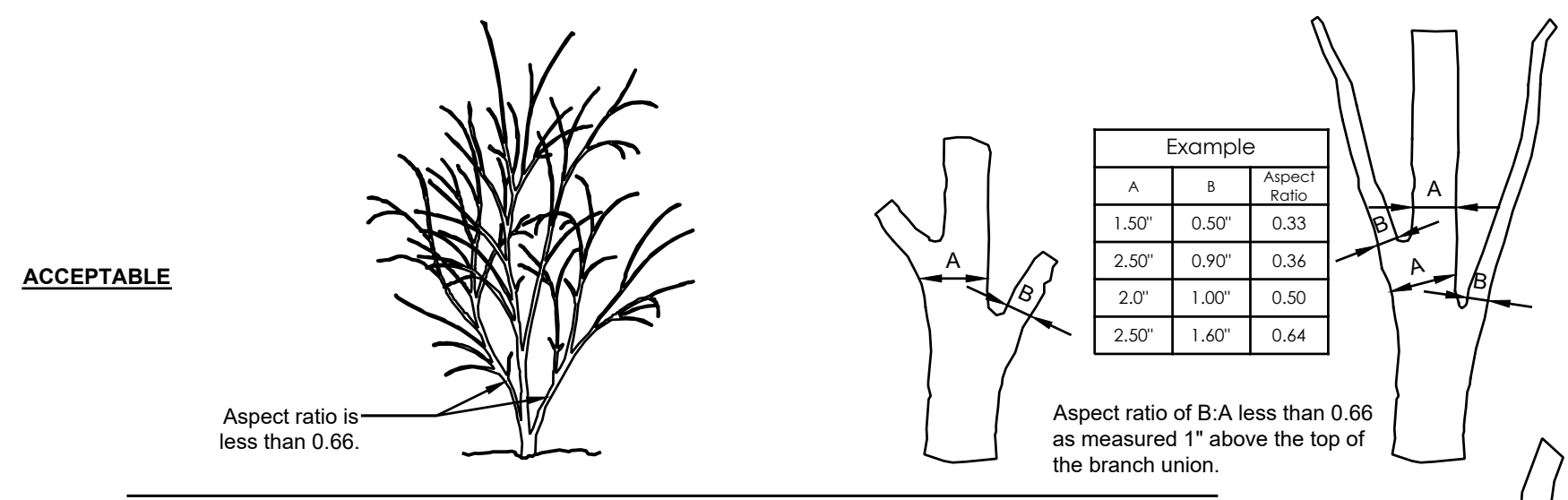
Notes:
1- Aspect ratio shall be less than 0.66 on all branch unions. Aspect ratio is the diameter of branch (B) divided by the diameter of the trunk (A) as measured 1" above the top of the branch union.
2- Any tree not meeting the crown observations detail may be rejected.

1 CROWN OBSERVATIONS - HIGH BRANCHED PLANTS
1/4" = 1'-0"



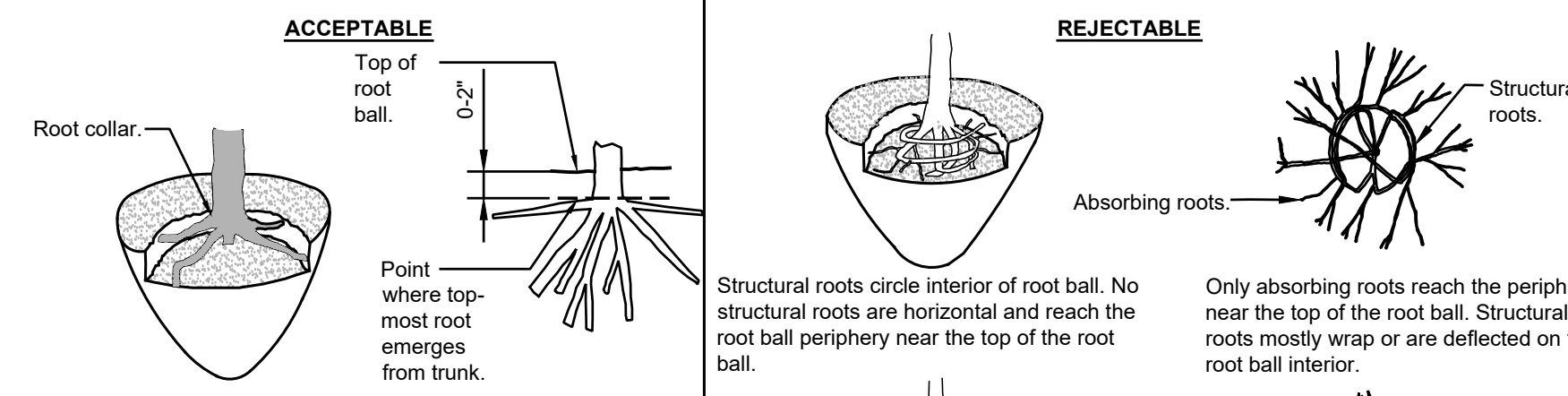
Notes:
1- Aspect ratio shall be less than 0.66 on all branch unions. Aspect ratio is the diameter of branch (B) divided by the diameter of the trunk (A) as measured 1" above the top of the branch union.
2- Any tree not meeting the crown observations detail may be rejected.

3 CROWN OBSERVATIONS - LOW BRANCHED PLANTS
1/4" = 1'-0"

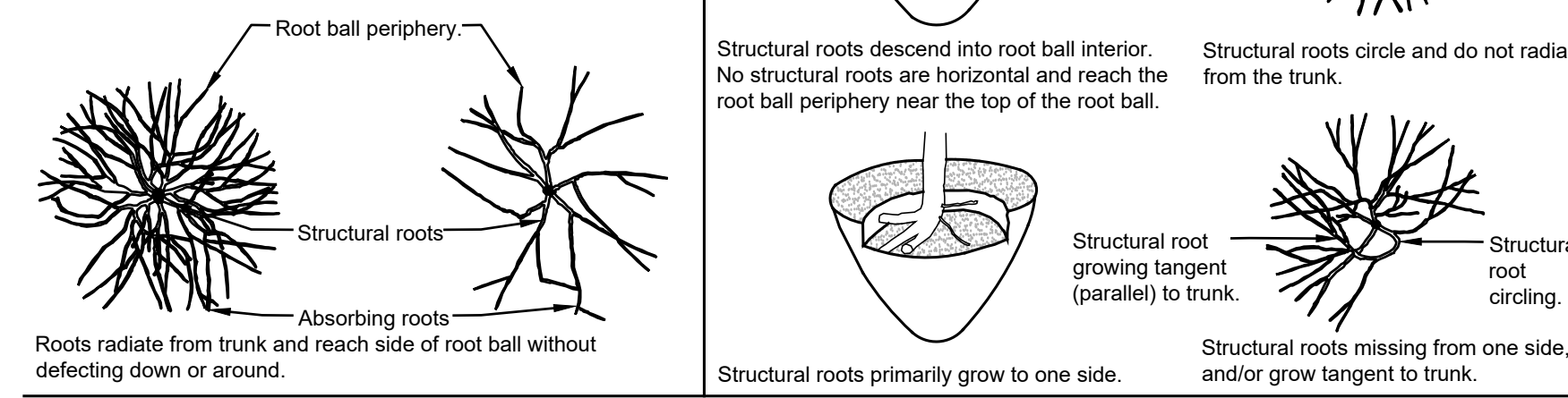


Notes:
1- Aspect ratio shall be less than 0.66 on all branch unions. Aspect ratio is the diameter of branch (B) divided by the diameter of the trunk (A) as measured 1" above the top of the branch union.
2- Any tree not meeting the crown observations detail may be rejected.

5 CROWN OBSERVATION - MULTI BRANCHED PLANTS
1/4" = 1'-0"

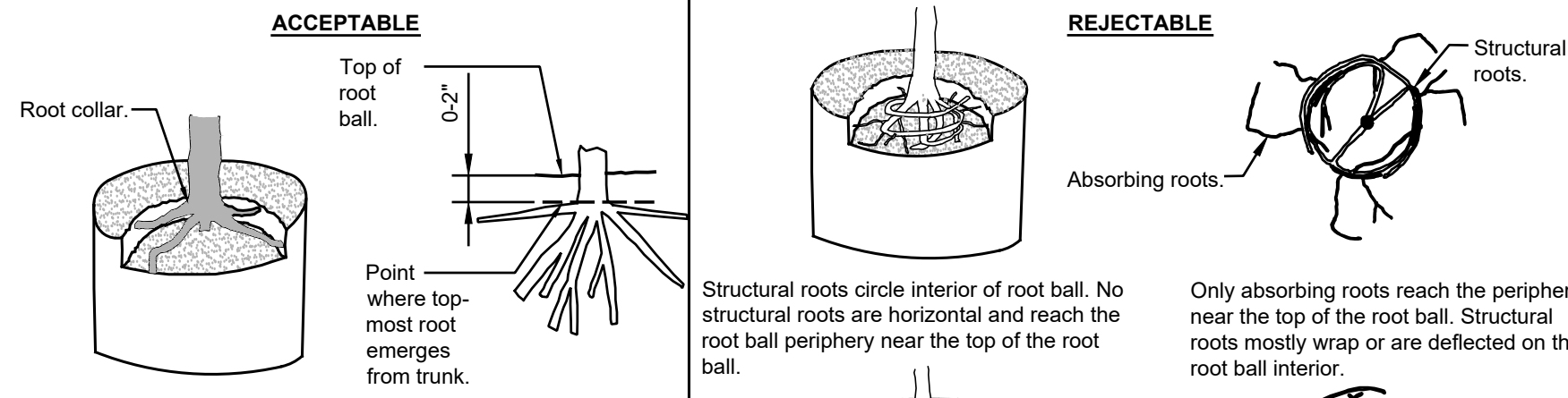


The point where top-most root(s) emerges from the trunk (root collar) should be within the top 2" of substrate. The root collar and the root ball interior should be free of defects including circling, kinked, ascending, and stem girdling roots. Structural roots shall reach the periphery near the top of the root ball.

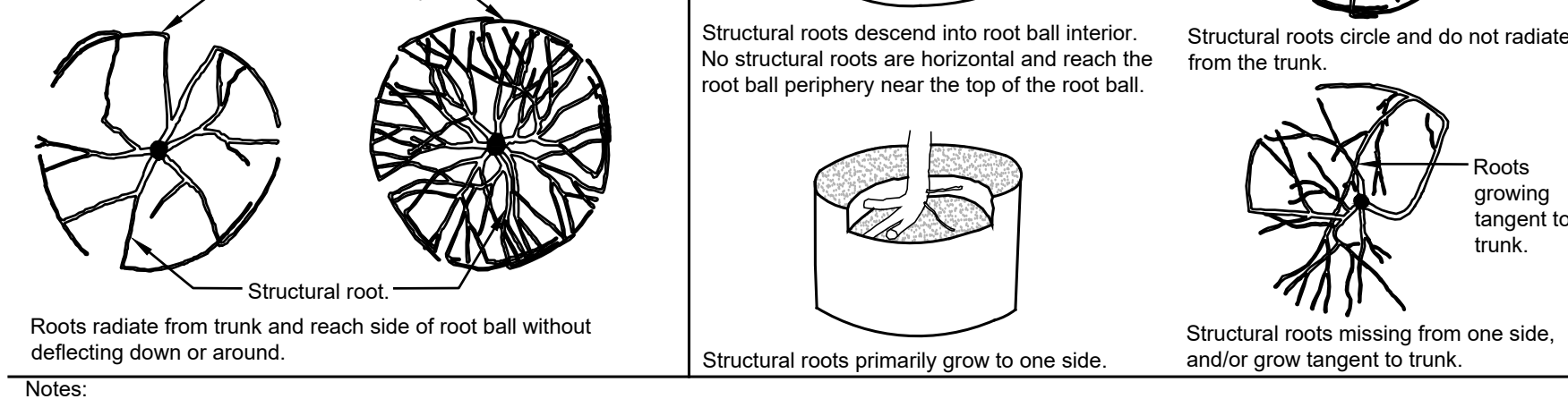


Notes:
1- Observations of roots shall occur prior to acceptance. Roots and soil may be removed during the observation process; substrate/soil shall be replaced after the observations have been completed.
2- See specifications for observation process and requirements.

2 ROOT OBSERVATIONS - BALLED AND BURLAPPED PLANTS
1" = 1'-0"



The point where top-most root(s) emerges from the trunk (root collar) should be within the top 2" of substrate. The root collar and the root ball interior should be free of defects including circling, kinked, ascending, and stem girdling roots. Structural roots shall reach the periphery near the top of the root ball.



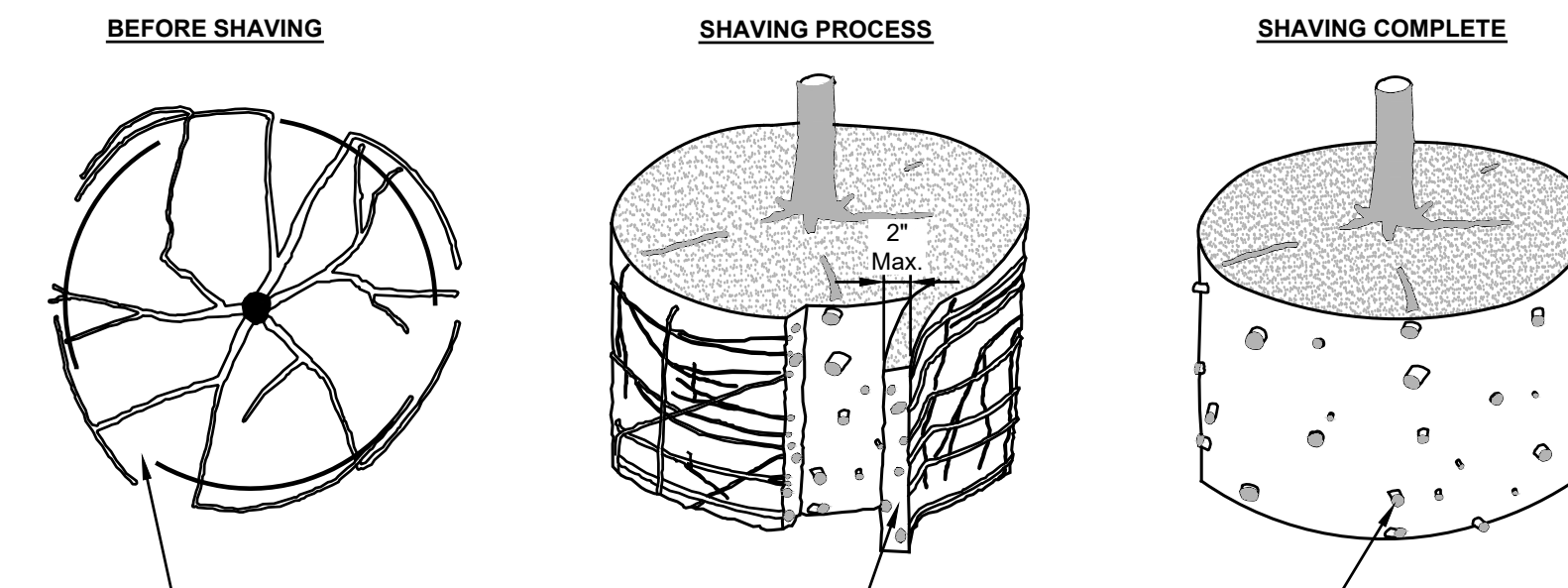
Notes:
1- Observations of roots shall occur prior to acceptance. Roots and substrate may be removed during the observation process; substrate/soil shall be replaced after observation has been completed.
2- Small roots (1/2" or less) that grow around, up, or down the root ball periphery are considered a normal condition in container production and are acceptable however they should be eliminated at the time of planting. Roots on the periphery can be removed at the time of planting. (See root ball shaving container detail).
3- See specifications for observation process and requirements.

4 ROOT OBSERVATIONS - CONTAINER PLANTS
1" = 1'-0"

SEE LANDSCAPE NOTES SHEET

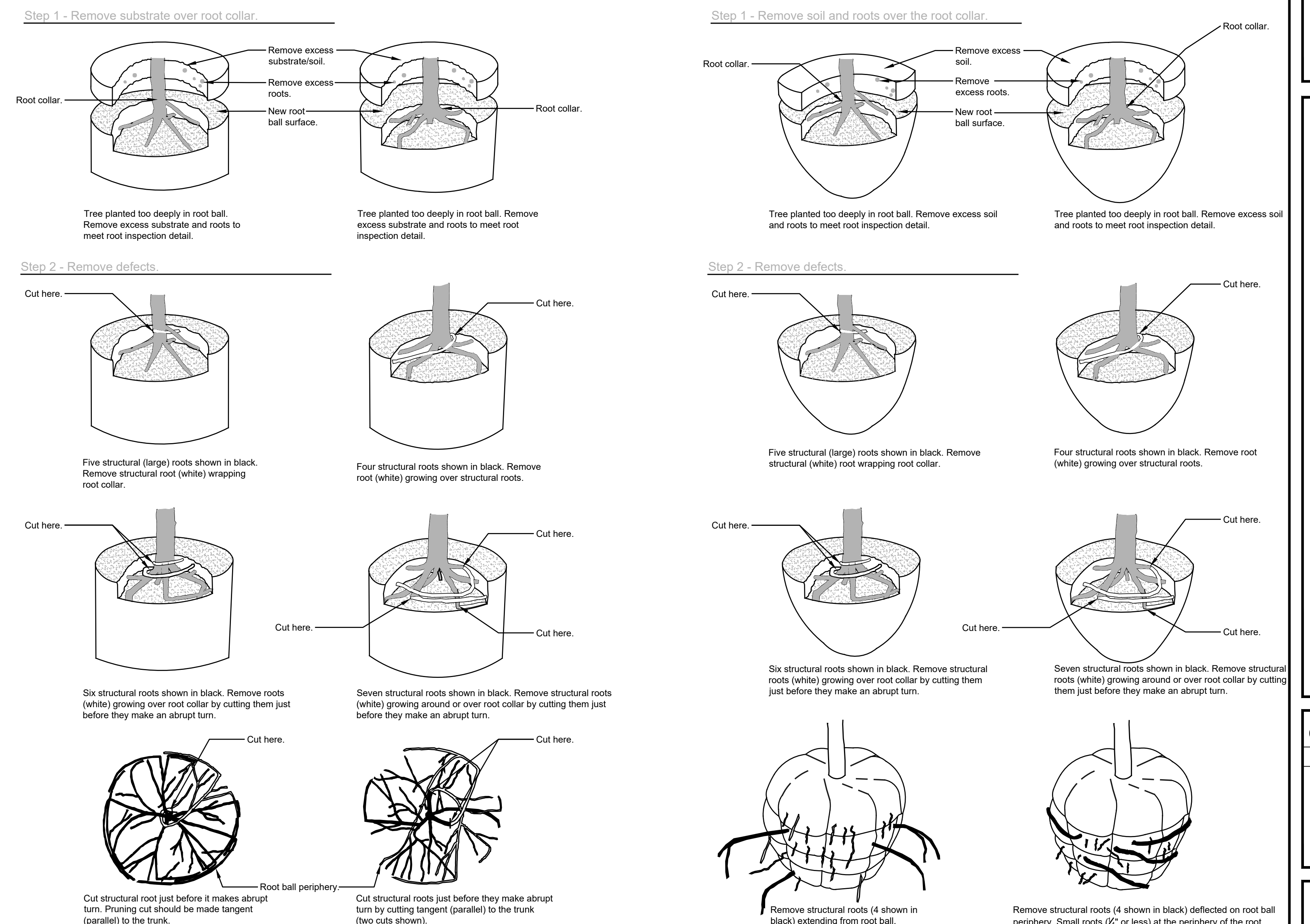
LANDSCAPE SELECTION DETAILS

1 CROWN CORRECTION DETAIL
1/2" = 1'-0"



Notes:
1- Shaving to be conducted using a sharp blade or hand saw eliminating no more than needed to remove all roots on the periphery of root ball.
2- Shaving can be performed just prior to planting or after placing in the hole.

2 ROOT BALL SHAVING - CONTAINER PLANTS
3" = 1'-0"



Notes:
1- All trees shown are rejectable unless they undergo recommended correction.
2- First Step 1, then Step 2. Roots and soil may be removed during the correction process; substrate/soil shall be replaced after correction has been completed.
3- Trees shall meet root observations detail following correction.
4- Small roots (1/4" or less) on the periphery of the root ball are common with container plant production. These small roots are not defined as "defects" and can be addressed at the time of installation. (See root ball shaving container detail).

3 ROOT CORRECTION - CONTAINER PLANTS
1 1/2" = 1'-0"

Notes:
1- All trees shown are rejectable unless they undergo recommended correction.
2- First step 1, then step 2. Adjust hole depth to allow for the removal of excess soil and roots over the root collar.
3- Roots and soil may be removed during the correction process; substrate/soil shall be replaced after the correction has been completed.
4- Trees shall meet root observations detail following correction.

4 ROOT CORRECTION - BALLED AND BURLAPPED PLANTS
1 1/2" = 1'-0"

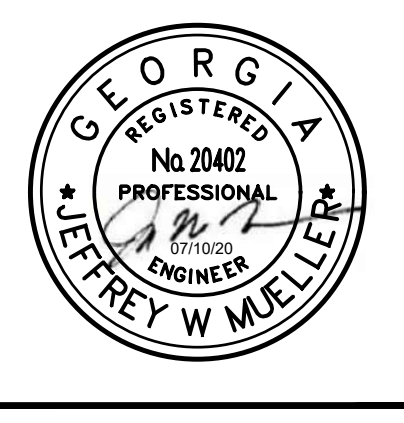
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 Plotted By: Grace Zhong



2016 SURVEY & 2019 UPDATED TREE SURVEY
TERRAMARK LAND SURVEYING, INC.
 1306 BELLS TERRY ROAD
 MARIETTA, GEORGIA 30066
 PHONE NO. (770) 421-1927
 FAX NO. (770) 421-0552
 WWW.TERRAMARK.COM
 C. O. # LSF00010



No.	Date	Description
11	09/17	LDP - South Trail - City Council #2
12	09/17	LDP - South Trail - City Council #2
13	10/13	LDP - Pool Parking - City Council #1
14	10/16	LDP - Habitat Plus Area Field Change #1
15	10/19	Multi-use Trail in East - Redwood Row
16	11/18	LDP - Pool Parking - City Council #2
17	11/20	LDP - Community Green - City Council #2
18	11/20	LDP - Community Green - City Council #2
19	11/20	NORTH BENTONVILLE DESIGN/ID



CITY OF BROOKHAVEN
 MURPHY CANDLER PARK
 1551 W. NANCY CREEK DRIVE NE
 BROOKHAVEN, GEORGIA 30319

DATE: 04/23/20
 DRAWN: BM
 CHECKED: GZ

SCALE:
 SHEET TITLE:
 PLANTING DETAILS
 COMMUNITY GREEN

PROJECT NUMBER:
 15092.00

C9.2B

DRAWING NUMBER

GENERAL:

- BEFORE BEGINNING ANY WORK, ALL UTILITIES AND UNDERGROUND CONSTRUCTION SHALL BE LOCATED BY THE THE LANDSCAPE CONTRACTOR SO THAT PROPER PRECAUTIONS MAY BE TAKEN NOT TO DISTURB OR DAMAGE ANY SUBSURFACE IMPROVEMENTS. WHERE PUBLIC UTILITIES ARE PRESENT, THE LANDSCAPE CONTRACTOR SHALL REQUEST ON-SITE LOCATIONS BY ALL UTILITY COMPANIES AND CONFIRM THAT SUCH LOCATIONS HAVE BEEN COMPLETED. THE LANDSCAPE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MAKING, AT HIS OWN EXPENSE, ALL REPAIRS TO DAMAGED UTILITIES RESULTING FROM WORK COVERED BY THIS CONTRACT.
- THE CONTRACTOR'S PRICE SHALL INCLUDE ALL LABOR AND MATERIAL NECESSARY TO COMPLETE THE WORK, INCLUDING BUT NOT LIMITED TO, MULCH, PLANTING MATERIAL, SOIL MIX, STAKING MATERIAL, WATERING, MAINTENANCE DURING CONSTRUCTION, GROUND CULTIVATION TO A MINIMUM DEPTH OF 6 INCHES OR AS INDICATED ON PLANS FOR PLANTING BEDS AND SOD AREAS, ETC.
- GROUND CULTIVATION INCLUDES SCALPING AND REMOVING EXISTING VEGETATION UNDER THE SUB-GRADE, ROTOTIL 3 INCHES OF ADDITIVES SUCH AS TOP SOIL, SAND OR COMPOST (PER SOIL TEST ANALYSIS INTO THE SUBGRADE TO BREAK THROUGH AND REMOVE ALL HARDPAN, ROCKS AND DEBRIS. THIS WILL ALLOW PERCOLATION AND POSITIVE DRAINAGE. IF A ROTOTILER IS NOT SUFFICIENT TO BREAK UP THE SUBGRADE, THE CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL EQUIPMENT NEEDED TO COMPLETE THE WORK AT NO ADDITIONAL EXPENSE TO THE OWNER.
- CONTRACTOR SHALL PROVIDE INVOICES OF ALL PLANT MATERIAL TO OWNER AND LANDSCAPE ARCHITECT DURING CONSTRUCTION.
- THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN BEST MANAGEMENT PRACTICES TO PREVENT AND MINIMIZE EROSION AND SEDIMENTATION. BMPs SHALL BE CONSISTENT WITH, AND NO LESS STRINGENT THAN, THOSE PRACTICES CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION.
- IN CONFORMANCE WITH GDOT STANDARD SPECIFICATIONS, PLANT INSTALLATION SHALL OCCUR BETWEEN THE DATES OF OCTOBER 15 AND MARCH.
- THE LANDSCAPE CONTRACTOR SHALL IMPLEMENT ALL MEASURES REQUIRED BY THE CITY OF BROOKHAVEN AND DEKALB COUNTY.
- THE LANDSCAPE CONTRACTOR SHALL TAKE MEASURES TO PREVENT DUST, MUD, EQUIPMENT MARKS, ETC FROM SOILING AND DAMAGING IMPROVEMENTS. ANY DAMAGE SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL MATERIAL QUANTITIES SHOWN ON THESE DRAWINGS BEFORE PRICING THE WORK, AND WILL BE RESPONSIBLE FOR INSTALLATION OF PLANT MATERIAL ACCORDING TO PLANS. THE PLANT SCHEDULE IS PROVIDED FOR CONTRACTOR'S CONVENIENCE ONLY.
- PROVIDE PLANT MATERIALS TRUE TO SPECIES AND VARIETY COMPLYING WITH RECOMMENDATIONS OF "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERY MEN.
- PLANTING PLANS INDICATE DIAGRAMMATIC LOCATIONS ONLY. SITE ADJUSTMENTS OF PLANTING DESIGN AND RELOCATION OF PLANT MATERIAL INSTALLED PRIOR TO DESIGN PROFESSIONAL OR OWNER'S REPRESENTATIVE APPROVAL SHALL BE DONE WITHOUT PENALTY OR ADDITIONAL COST TO OWNER. START PLANT LOCATIONS AT SITE AND OBTAIN OWNER'S REPRESENTATIVE'S APPROVAL PRIOR TO PLANT INSTALLATION.

ELIMINATION OF EXISTING VEGETATION AND REPLACEMENT WITH PROPOSED VEGETATION:

- THIS PROJECT MAY REQUIRE THE ELIMINATION OF EXISTING VEGETATION IN ORDER TO INSTALL LANDSCAPING AS SHOWN ON PLANS. EXISTING VEGETATION CONSISTS OF VARIOUS TURF GRASSES AND WEEDS. IF SO, THE CONTRACTOR SHALL ELIMINATE EXISTING VEGETATION BY SPRAYING WITH 2 SEPARATE APPLICATIONS OF ROUNDUP HERBICIDE (GLYPHOSATE), OR APPROVED EQUAL PER MANUFACTURERS RECOMMENDATIONS. THE FIRST HERBICIDE APPLICATION SHALL OCCUR ON THE ENTIRE PROJECT AREA AFTER WINTER DORMANCY WHEN THERE IS SIGNIFICANT ACTIVE GROWTH OF GRASSES AND WEEDS. THE OPTIMAL TIME FOR THIS HERBICIDE APPLICATION IS THE FIRST WEEK IN APRIL. THE SECOND APPLICATION SHALL OCCUR ON ALL PROPOSED REVEGETATED AREAS WHEN THERE IS SIGNIFICANT ACTIVE GROWTH AFTER THE FIRST HERBICIDE APPLICATION. THE SECOND APPLICATION SHALL OCCUR AT LEAST 4 WEEKS (28 DAYS) AFTER THE FIRST APPLICATION. BOTH SPRAYINGS SHALL OCCUR ON ALL LANDSCAPE MEDIAN AREAS. SUBSEQUENT INSTALLATION WORK SHALL BE DIVIDED INTO PHASES AS DELINEATED ON THE PLANS.
- CONTRACTOR SHALL COMMENCE EACH PHASE BY SCALPING (MOWING AS CLOSELY TO THE ROUND AS POSSIBLE) ALL EXISTING VEGETATION WITHIN THE LIMITS OF DISTURBANCE FOR THAT PHASE. THE CONTRACTOR SHALL NOT SCALP UNTIL AT LEAST 10 DAYS HAVE PASSED FOLLOWING THE FINAL HERBICIDE APPLICATION. PLANTING OPERATIONS SHALL OCCUR IMMEDIATELY FOLLOWING THE SCALPING OF THE EXISTING VEGETATION. THE CONTRACTOR SHALL COMPLETE ALL WORK ON A PHASE AND SHALL HAVE THAT WORK INSPECTED AND APPROVED BY AN AUTHORIZED REPRESENTATIVE OF THE CITY OF BROOKHAVEN PRIOR TO COMMENCING WORK ON ANY OTHER PHASE.

NURSERY STOCK SELECTION:

- PLANTS SHALL BE WATERED PRIOR TO TRANSPORTATION AND SHALL BE KEPT MOIST UNTIL PLANTED. ALL PLANTS SHALL BE PROTECTED FROM DESICCATION DURING DELIVERY WITH A PROTECTIVE COVERING OR ENCLOSED TRUCK.
- PLANTS SHALL BE SPECIMEN QUALITY, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF DISEASES, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN-SCALD, INJURIES, ABRASIONS AND/OR DISFIGUREMENT.
- HEIGHT AND SPREAD DIMENSIONS SPECIFIED REFER TO THE MAIN BODY OF THE PLANT AND NOT FROM BRANCH TIP TO TIP. IF A RANGE OF SIZE IS GIVEN, NO PLANT SHALL BE LESS THAN THE MINIMUM SIZE AND NOT LESS THAN 50 PERCENT OF THE PLANTS SHALL BE AS LARGE AS THE MAXIMUM SIZE SPECIFIED.
- HARDWOOD TREES SHALL HAVE STRAIGHT TRUNKS WITH CENTRAL LEADERS. DO NOT HANDLE PLANTS BY THE TRUNK.
- PLACE PLANTS UPRIGHT AND TURNED SO THAT THE MOST ATTRACTIVE SIDE IS VIEWED.
- AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
- ALL NEWLY PLANTED TREES SHALL HAVE VISIBLE ROOT FLARES AT FINISHED GRADE. NO CIRCLING ROOTS SHALL BE ALLOWED ON PLANTED TREES. THE UPPER TWO RINGS OF THE WIRE BASKET, ALL BURLAP, AND STRAPPINGS MUST BE CUT AND REMOVED PRIOR TO BACKFILL.
- TREES LESS THAN THE CALIPER INCH SHOWN ON THE PLANS WILL NOT BE ACCEPTED.
- PLANT HEIGHT MEASUREMENT IS TAKEN AT THE TOP OF THE MAIN BODY OF THE PLANT AND NOT AT THE TIP OF THE TOP MOST GROWTH.
- SEE CROWN AND ROOT OBSERVATIONS DETAILS ON LANDSCAPE DETAILS SHEETS.

PLANTING SOIL MIX:

- CONTRACTOR SHALL SUPPLY TOP SOIL AND PLANTING SOIL MIX.
- THE CONTRACTOR SHALL SUPPLY A SOIL REPORT THROUGH THE LOCAL EXTENSION SERVICE OF EXISTING SOILS TO SHOW RECOMMENDED AMENDMENTS.
- THE CONTRACTOR SHALL SUPPLY A SECOND SOIL REPORT OF PROPOSED SOIL MIX WHICH SHALL MEET THE RECOMMENDATIONS IN THE FIRST SOIL REPORT.
- EXISTING AND PROPOSED SOIL REPORTS MUST BE APPROVED BY THE OWNER OR OWNERS REPRESENTATIVE PRIOR TO ANY BACKFILLING.
- THE PROPOSED PLANTING SOIL MIX MUST BE APPROVED BY THE OWNER OR OWNERS REPRESENTATIVE PRIOR TO ANY BACKFILLING.

- ALLOWANCES:**
- THE PLANTING SOIL MIX FOR ON-GRADE PLANTINGS (TREES, SHRUBS & GROUND COVERS) SHALL CONSIST OF THE FOLLOWING:
 - 80% SANDY LOAM TOPSOIL (AS SPECIFIED AND AMENDED PER SOIL REPORT)
 - 20% PREPARED ADDITIVES SHALL BE PER SOIL REPORT OR BY VOLUME AS FOLLOWS:
 - 2 PARTS HUMUS AND/OR PEAT
 - 1 PART STERILIZED COMPOSTED COW MANURE
 - 1 PART SHREDDED, COMPOSTED HARDWOOD MULCH
 - PLANTING SOIL MIX FOR PERENNIAL BEDS CONSIST OF THE FOLLOWING:
 - 70% SANDY LOAM TOPSOIL (AS SPECIFIED AND AMENDED PER SOIL REPORT)
 - 30% PREPARED ADDITIVES SHALL BE PER SOIL REPORT OR BY VOLUME AS FOLLOWS:
 - 2 PARTS HUMUS AND/OR PEAT
 - 1 PARTS SHREDDED, COMPOSTED HARDWOOD MULCH
 - 1 PART (50% STERILIZED COMPOSTED COW MANURE AND 50% ANGULAR BUILDERS SAND)
 - GYPSUM, LIME AND COMMERCIAL FERTILIZER SHALL ONLY BE USED AS PRESCRIBED IN THE SOIL REPORT.

WATERING/IRRIGATION:

- WATERING AFTER INSTALLATION AND WATER TRANSPORTATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- USE OF TREE CAMEL, OZZE TUBES OR TREE GATOR BAGS FOR TREES ARE ACCEPTABLE.
- MULCH SHOULD BE INSPECTED EVERY 3 MONTHS TO ENSURE A DEPTH OF 4-INCHES AND REPLENISHED WHERE NECESSARY.
- THE CONTRACTOR SHALL INSTALL A TEMPORARY IRRIGATION SYSTEM IN ORDER TO ESTABLISH INSTALLED PLANT MATERIAL. SUBMIT A PLAN FOR A TEMPORARY SYSTEM TO THE OWNERS REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION, AND OBTAIN APPROVAL AS WARRANTED BY ALL GOVERNING AGENCIES HAVE JURISDICTION. THE SYSTEM SHALL BE DESIGNED TO PROVIDE FULL AND COMPLETE COVERAGE TO ALL LANDSCAPED AREAS OF THE SITE INDICATED ON THE LANDSCAPE PLAN.
- ALL MATERIALS USED IN THE DESIGN OF THE TEMPORARY SYSTEM, INCLUDING SPRINKLER HEADS, VALVES, VALVE BOXES, CONTROLLERS, PUMPS, BACKFLOW PREVENTORS, RAIN AND FREEZE SENSORS, DRIP EQUIPMENT, WIRE, ELECTRICAL CONNECTIONS, AND PVC PIPE AND FITTINGS, SHALL MEET MINIMUM INDUSTRY STANDARDS. MANUFACTURER AND MODEL MUST BE SPECIFIED.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY SYSTEM AFTER SUBSTANTIAL COMPLETION IS OBTAINED.
- IF NO TEMPORARY SYSTEM IS PROPOSED, THE CONTRACTOR SHALL DEVELOP A SCHEDULE FOR MANUAL WATERING OF PLANTS THIS SCHEDULE SHOULD BE INCLUDED IN ANY MAINTENANCE AGREEMENT AND/OR BONDING OF LANDSCAPE MATERIAL AND SHOULD INDICATE THE PARTY RESPONSIBLE FOR PERFORMING THE MANUAL WATERING. THE DURATION OF THE SCHEDULE OF MANUAL WATERING SHOULD BE EQUAL TO THE DURATION OF THE BOND PERIOD OR 12 MONTHS STARTING FROM THE INSTALLATION DATE, WHICHEVER IS GREATER. THE SCHEDULE SHOULD ALSO INDICATE THE AMOUNT OF WATER TO BE APPLIED PER WEEK. THE FOLLOWING IRRIGATION RATES ARE OFFERED AS A GUIDELINE; HOWEVER, THE SUPPLIER OF THE LANDSCAPE MATERIAL SHOULD BE CONSULTED FOR THEIR RECOMMENDATIONS.

TREES: SHOULD BE WATERED DAILY FOR MONTH 1, EVERY OTHER DAY FOR MONTHS 2-4, AND WEEKLY FOR MONTHS 5-12. APPLY 1 GALLON PER TREE PER APPLICATION. ADJUST RATE TO LOCAL RAINFALL AMOUNT. (ASSUME 30 GALLONS PER TREE FOR EVERY INCH OF RAINFALL).

SHRUBS: SHOULD BE WATERED DAILY FOR MONTH 1, EVERY OTHER DAY FOR MONTHS 2-4, AND WEEKLY FOR MONTHS 5-12. APPLY 1 GALLON PER SHRUB PER APPLICATION. ADJUST RATE TO LOCAL RAINFALL AMOUNT. (ASSUME 2 GALLONS PER SHRUB FOR EVERY INCH OF RAINFALL).

TURF: SHOULD RECEIVE 1-INCH OF IRRIGATION PER WEEK APRIL THROUGH SEPTEMBER, 1/2-INCH OF IRRIGATION OCTOBER THROUGH MARCH. ADJUST RATE TO LOCAL RAINFALL AMOUNT.

NATIVE GRASS BEDS: WATER EVERY OTHER DAY FOR THE FIRST MONTH. ONLY CONTINUE WATERING AFTER THAT ONLY DURING EXTENDED OR FORECASTED DRY PERIODS, AND THEN, ONLY ONCE PER WEEK.

SOD:

- GROUND TO BE CULTIVATED AS INDICATED TO A MINIMUM DEPTH OF 6 INCHES PRIOR TO SOD INSTALLATION. IN AREAS TO RECEIVE SOD ONLY, CONTRACTOR SHALL REMOVE THE SCALPED CLIPPINGS EITHER DURING SCALPING OR AFTER THE EXISTING GRASS IS SCALPED. CONTRACTOR SHALL ADD PELLETIZED LIME TO THESE AREAS AT A RATE OF 220 LBS/ACRE (5 LBS/1,000 SF). CONTRACTOR SHALL THEN AERATE THE AREAS WITH A CORE AERATOR. IMMEDIATELY PRIOR TO SOD INSTALLATION, CONTRACTOR SHALL RAKE THE SOIL (EITHER MANUALLY OR USING A POWER RAKE) TO A DEPTH OF 1". MIXING THE PREVIOUSLY ADDED LIME INTO THE EXISTING SOIL AND BREAKING UP CORES. CONTRACTOR SHALL ONLY RAKE THE AREAS WHICH ARE TO BE SODDED THAT DAY.
- SOD SHALL BE STRONGLY ROOTED, 2 YEAR OLD STOCK. THE SOD SHALL BE TOP QUALITY CERTIFIED SOD, FREE OF WEEDS, UNDESIRABLE NATIVE GRASSES, INSECTS AND DISEASES, AND UNIFORM IN THICKNESS. PROVIDE CERTIFICATION TAG TO OWNER. ALL SOD SHALL BE MACHINE CUT AND VIGOROUSLY GROWING (NOT DORMANT)
- LAY SOD WITHIN 24 HOURS FROM TIME OF STRIPPING. DO NOT PLANT DORMANT SOD OR IF GROUND IS FROZEN.
- LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS. DO NOT OVERLAP.
- IN SLOPING AREAS, SOD SHALL BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOURS AND WITH JOINTS STAGGERED.
- SOD SHALL BE SECURED IN-PLACE WITH STAPLES ON SLOPES GREATER THAN 3:1.
- STAPLES FOR SOD STAKING SHALL BE NO. 11 GAUGE STEEL WIRE, U-SHAPED WITH LEGS 12 INCHES IN LENGTH AND 1" CROWN. STAPLES SHALL BE PLACED AT INTERVALS NO GREATER THAN 2' ON CENTER. TOP OF STAPLES SHALL BE DRIVEN FLUSH WITH SOD AS NOT TO INTERFERE WITH MOWING OPERATIONS.
- TAMP OR ROLL TO INSURE CONTACT WITH SOIL. WORK SIFTED SOIL INTO MINOR CRACKS BETWEEN PIECES OF SOD. REMOVE EXCESS SOIL TO AVOID SMOTHERING OF ADJACENT GRASS.
- CONTRACTOR SHALL REMOVE NETTING FROM THE BACK OF SOD PRIOR TO INSTALLATION.
- SOD SHALL BE WATERED IMMEDIATELY AFTER ROLLING OR TAMPING.

INSTALLATION:

- INSTALL TREES PLUMB. DO NOT DEPEND ON STAKING TO PULL PLANTS TO PLUMB POSITION.
- MULCH: PROVIDE 4" THICKNESS MULCH AT ALL PLANTS AND PLANTING BEDS. UTILIZE SHREDDED, AGED HARDWOOD MULCH.
- LEAVES: MUST BE OF MEDIUM FOLIAGE, ALL GOOD LEAVES, MAXIMUM OF 10% CHLOROSIS ALLOWED, WITH NO EXTREME SUCCESSION.
- IF DRAINAGE IS NOT SUFFICIENT NOTIFY PROJECT OWNER'S REPRESENTATIVE IN WRITING BEFORE INSTALLING THE PLANTS. OTHERWISE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR THE GUARANTEE AND LIVABILITY OF THE PLANT.
- UNLESS OTHERWISE SPECIFIED DUE TO SOIL CONDITIONS, SET ROOT FLARE OF ROOTBALL LEVEL WITH SURROUNDING GRADE. ROOT SYSTEM SHALL BE AS SPECIFIED IN PLANT SCHEDULE.

BALLED AND BURLAPPED:
ROOTS MUST BE STURDILY ESTABLISHED IN BALL THAT HAS BEEN TIGHTLY WRAPPED AND SECURELY TIED WITH TWINE OR WIRE, OR PINNED. WHERE WIRE BASKETS ARE USED ON TREES OR SHRUBS, CUT BURLAP AND WIRE BACK TO THE BASE OF ROOTBALL AND REMOVE FROM PLANTING HOLE. REMOVE ALL STRAPS, WIRE STRAP HANGERS, ETC. FROM ROOTBALL. DO NOT ALLOW REMAINING WIRE TO PROTRUDE INTO MULCH OR TOPSOIL AREAS.

CONTAINER GROWN:
CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING DESIGN PROFESSIONAL OF ROOT BOUND SPECIMENS. REMOVE CONTAINER AND SCARIFY OR SHAVE ROOTBALL AS NEEDED TO REMEDIATE ROOT BOUND CONDITION. PULL SURFACE ROOTS AT TOP OF ROOTBALL OUT IN A DIRECTIONAL PATTERN TO DISCOURAGE CIRCLING ROOTS.

- STAKING IS ONLY TO BE INSTALLED IN SPECIAL CIRCUMSTANCES AT THE DIRECTION OF THE DESIGN PROFESSIONAL. ANY STAKING MATERIAL MUST BE REMOVED AT THE END OF THE WARRANTY PERIOD.
- ALL TREES MUST BE PLANTED A MINIMUM OF 5 FEET FROM ANY UTILITY LINE AND/OR EASEMENT. ALL UTILITIES (WATER, SEWER, GAS, FIBER OPTIC, ETC.) MUST BE INSTALLED AT LEAST FIVE (5) FEET FROM REQUIRED TREE PLANTING ISLANDS OR LANDSCAPE AREAS.
- IF TREE SURVEY INACCURACIES ARE FOUND ON-SITE, A STOP WORK ORDER WILL BE ISSUED UNTIL REVISED PLANS ARE APPROVED AND PROCESSED BASED ON ACCURATE INFORMATION.
- TREES AGREED UPON TO BE SAVED ARE THE RESPONSIBILITY OF THE OWNER.
- A 4" LAYER OF MULCH WILL BE REQUIRED FOR THE CRZ OF SPECIMEN TREES. MULCH MUST BE APPLIED PRIOR TO START OF CONSTRUCTION. MULCH SHALL NOT BE PLACED DIRECTLY AGAINST TREE TRUNKS.
- NO TRENCING IS ALLOWED IN TREE SAVE AREAS, INCLUDING FOR THE INSTALLATION OF IRRIGATION.
- TREE PIT DRAINAGE TESTING IS REQUIRED WHEN TREES ARE PLANTED IN PARKING LOT ISLANDS, SIDEWALK TREE PITS, ROADWAY MEDIANS, OR SIMILAR LOCATIONS. REFER TO CITY DETAILS REGARDING PLANTING PIT OR LANDSCAPE ISLAND CONSTRUCTION. FILL EACH PIT WITH WATER. IF PERCOLATION IS LESS THAN 100% WITHIN A PERIOD OF 12 HOURS, USE AN AUGER TO DRILL A 10" HOLE TO A DEPTH OF FOUR FEET BELOW THE BOTTOM OF THE PIT. FILL AUGER HOLE WITH DRAINAGE GRAVEL AND COVER WITH A SOIL SEPARATOR. RETEST PIT. IF DRAINAGE IS STILL UNSATISFACTORY, CITY ARBORIST AND/OR PROJECT ARBORIST MUST BE NOTIFIED IN WRITING OF THE LOCATIONS WITH UNSATISFACTORY DRAINAGE SO THAT A SOLUTION CAN BE ARRIVED UPON BEFORE PLANTING. ALL TESTING RESULTS MUST BE PROVIDED TO THE CITY ARBORIST.
- ALL BUFFERS SHALL BE REPLANTED WHERE SPARSE OR AS DIRECTED BY THE CITY OF BROOKHAVEN IN ORDER TO CREATE A YEAR-ROUND OPAQUE SCREEN WITHIN 2 YEARS OF CONSTRUCTION. THIS MAY BE IN ADDITION TO WHAT IS SHOWN ON THE APPROVED LANDSCAPE PLAN.

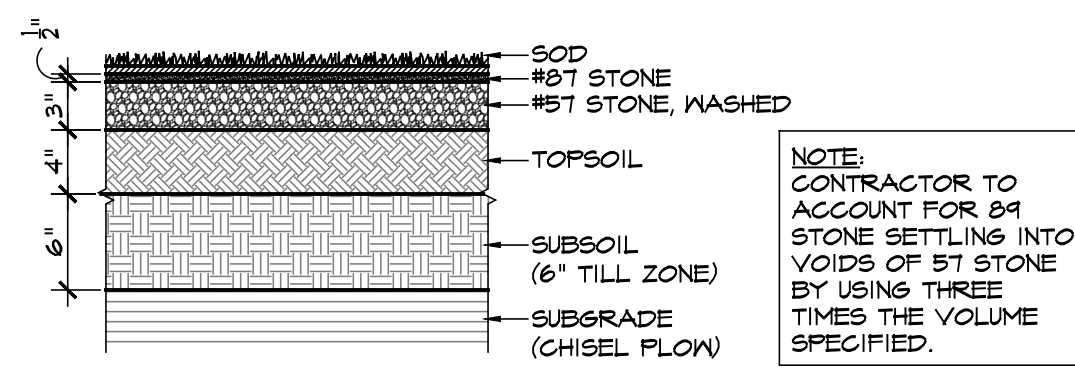
INSPECTION:

- THE OWNER'S REPRESENTATIVE SHALL INSPECT THE TOTAL WORK FOR ACCEPTANCE UPON REQUEST OF THE LANDSCAPE CONTRACTOR. ANY UNSATISFACTORY ITEMS SHALL BE NOTED AND MUST BE REMEDIED BY THE LANDSCAPE CONTRACTOR PRIOR TO ACCEPTANCE. UPON SATISFACTORY COMPLETION OF ALL WORK, THE OWNER'S REPRESENTATIVE SHALL CERTIFY IN WRITING ACCEPTANCE OF THE WORK. PAYMENT FOR CONTRACT WORK TO THE CONTRACTOR PURSUANT TO ISSUANCE OF ACCEPTANCE SHALL BE DEEMED THE FINAL PAYMENT FOR SAID WORK.
- ALL PLANTING AND PLANT MATERIAL REQUIRED BY THIS CONTRACT SHALL BE IN A SATISFACTORY AND ACCEPTABLE CONDITION WHEN THE CONTRACTOR APPLIES FOR PAYMENT.
- DESIGN PROFESSIONAL OR OWNER'S REPRESENTATIVE SHALL BE THE SOLE JUDGE OF THE QUALITY AND ACCEPTABILITY OF MATERIALS AND PLACEMENT.

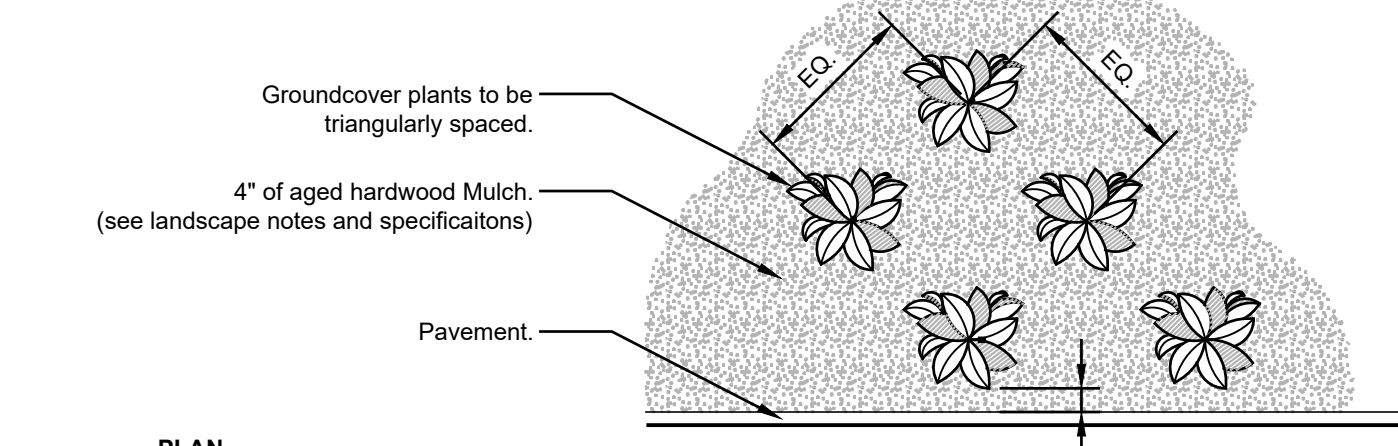
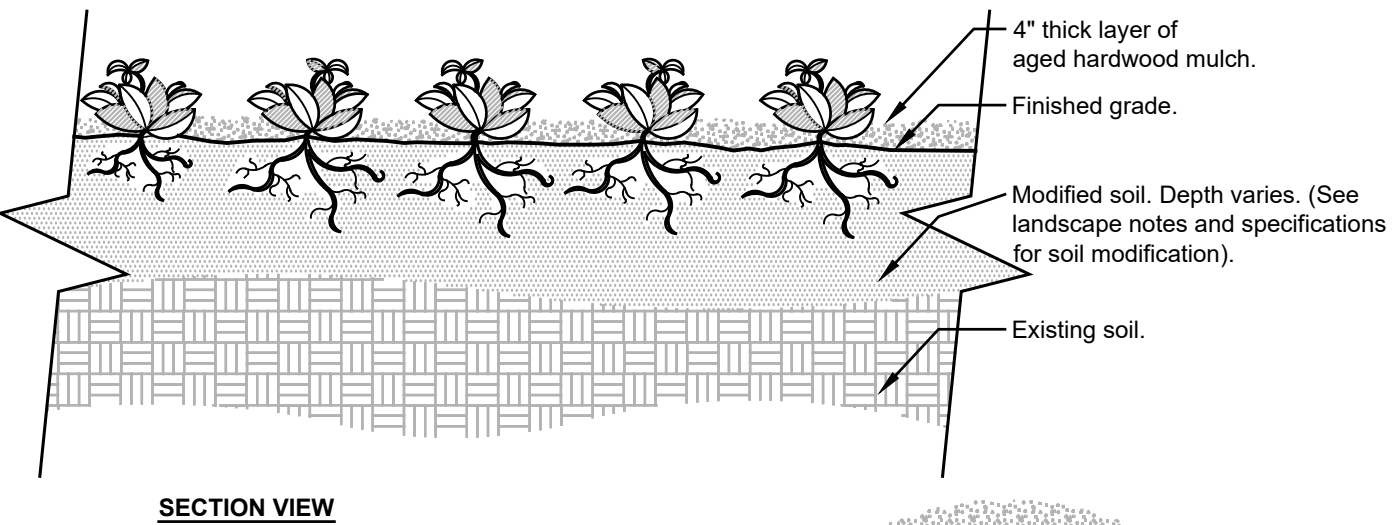
WARRANTY:

- THE CONTRACTOR SHALL COMPLETELY WARRANTY ALL PLANT MATERIAL AS INDICATED IN THE SPECS, BEGINNING AT THE DATE OF SUBSTANTIAL COMPLETION. MAINTENANCE WORK SHALL BE PERFORMED UNTIL DATE OF FINAL ACCEPTANCE BY OWNER. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE WARRANTY PERIOD (AS DIRECTED BY THE OWNER).
- ANY PLANT MATERIAL WHICH DIES, TURNS BROWN OR DEFOOLIATES (PRIOR TO DATE OF SUBSTANTIAL COMPLETION OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL THE PLANT LIST SPECIFICATIONS.
- THE LANDSCAPE CONTRACTOR SHALL MAKE ALL NECESSARY REPAIRS TO GRADES, VEGETATIVE COVER AND PAVING REQUIRED BECAUSE OF PLANT REPLACEMENTS. SUCH REPAIRS SHALL BE DONE AT NO EXTRA COST TO THE OWNER.

- SODDING PROCEDURE**
- ROUGH GRADE SUBSOIL.
 - CHISEL PLUM 12" DEEP AND SMOOTH OUT.
 - PLACE 3" OF TOPSOIL.
 - BROADCAST FERTILIZER.
 - TILL SOIL 6" DEEP TO CUT INTO SUBSOIL.
 - LAY 8" STONE - 4" DEEP AND SMOOTH OUT.
 - LAY 8" STONE AS LEVEL COURSE - 1/2" DEEP AND SMOOTH OFF.
 - SOAK STONE UNTIL DAMP.
 - LAY SOD.
 - KEEP DAMP UNTIL ROOTS TIE INTO TOPSOIL BASE.
 - DO NOT TOP DRESS WITH SAND UNTIL AFTER TURF IS LOCKED DOWN.

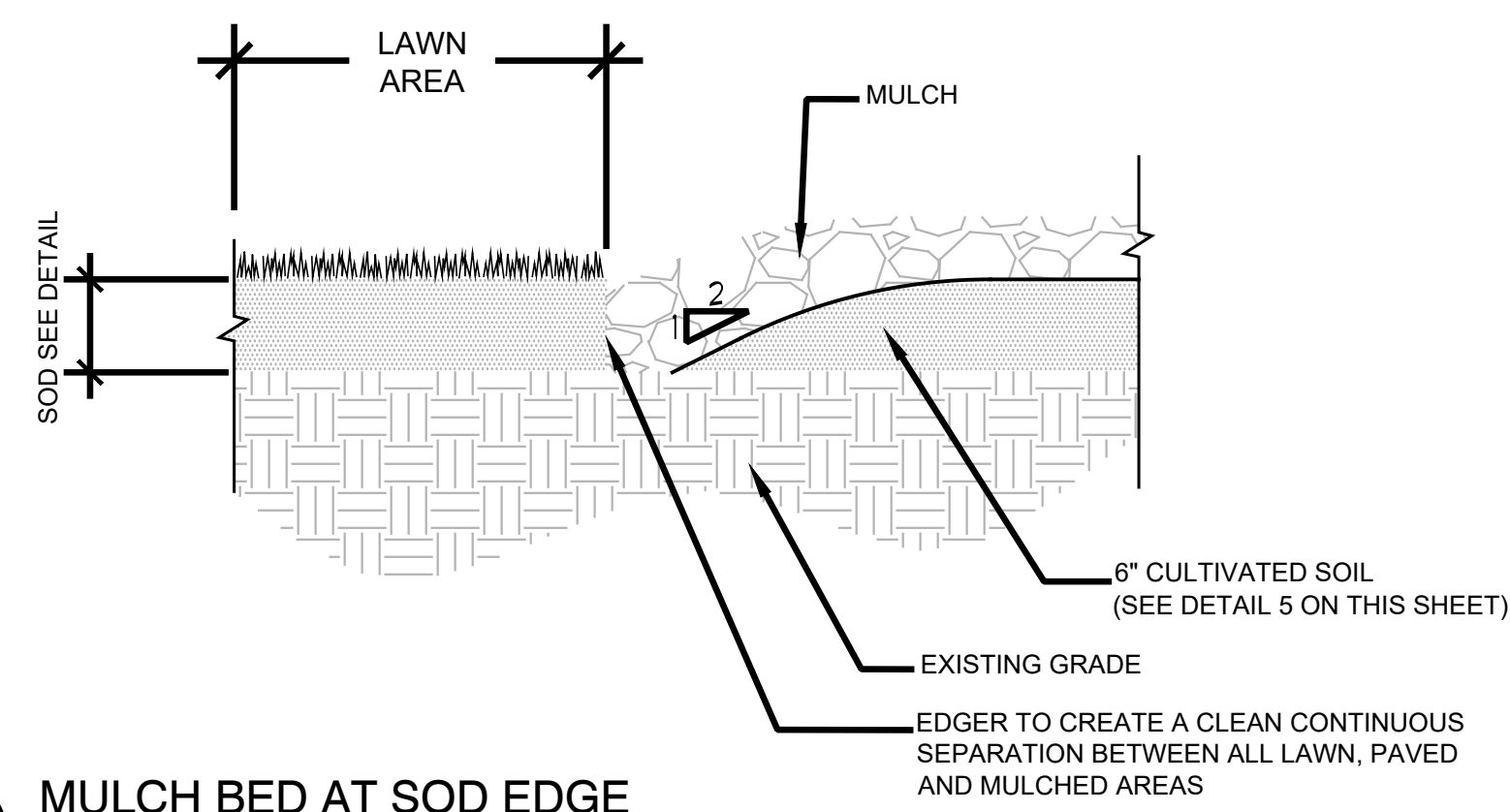


1 REINFORCED SOD
1-1/2" x 1'-0"

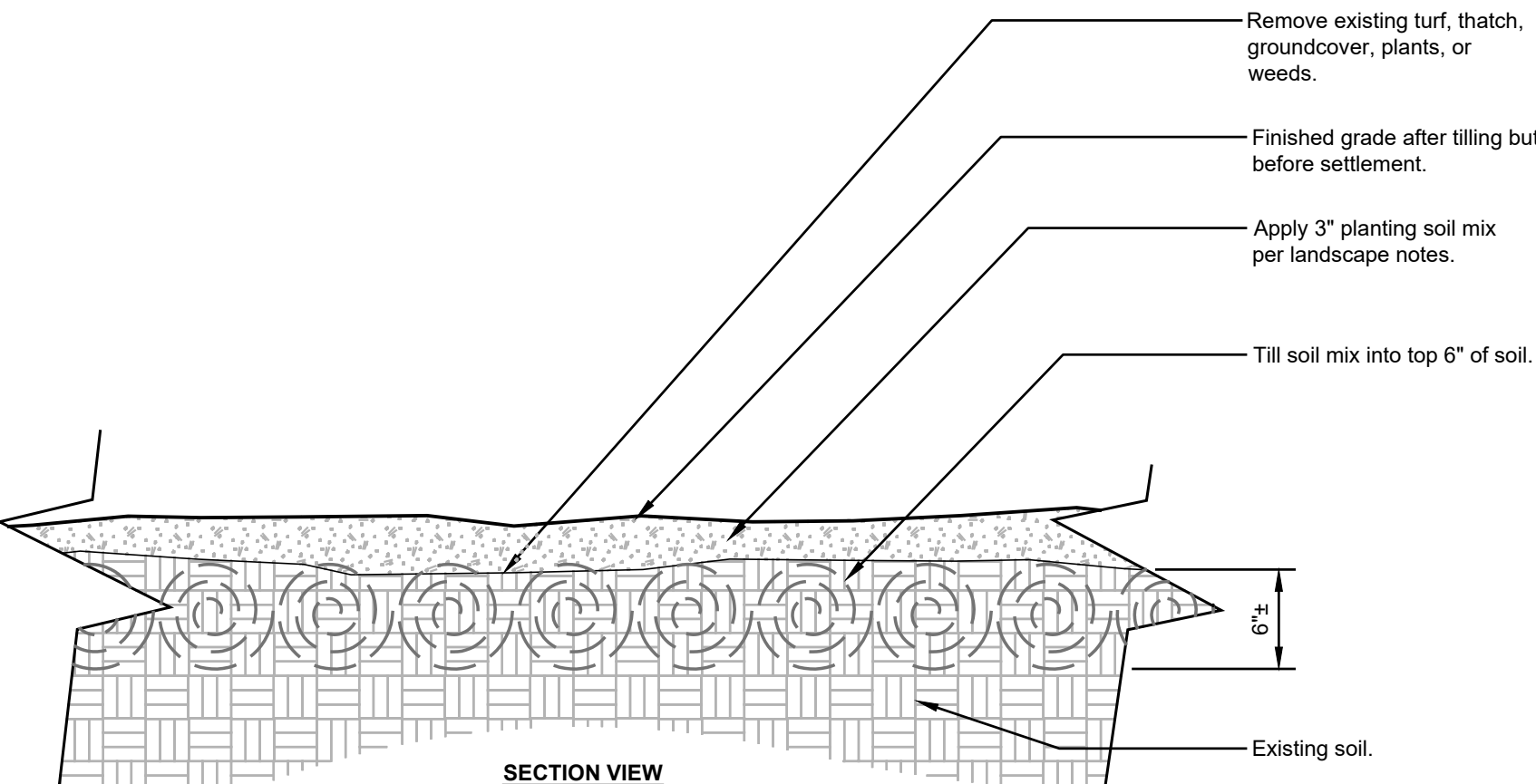


- Notes:**
- See planting legend for groundcover species, size, and spacing dimension.
 - Small roots (1/2" or less) that grow around, up, or down the root ball periphery are considered a normal condition in container production and are acceptable however they should be eliminated at the time of planting. Roots on the periphery can be removed at the time of planting. (See root ball shaving container detail).
 - Settle soil around root ball of each groundcover prior to mulching.

2 GROUND COVER INSTALLATION / SPACING
3/4" = 1'-0"



4 MULCH BED AT SOD EDGE
N.T.S.



- Notes:**
- Prior to the start of work remove all thatch, sod, and/or weeds.
 - Loosen soil with rototiller or approved equal to a depth of 6 - 8" and work around encountered roots.
 - All rocks and debris shall be removed to a minimum depth of 6".
 - Apply 2 - 3" of top soil mix (per planting notes) over loosened soil. Using a rototiller mix top soil into loosened soil.
 - Water entire root zone at end of each work day.

5 SOIL PREPARATION / CULTIVATION
3/4" = 1'-0"

ARCHITECTURE
ENGINEERING
PLANNING
CPLTeam.com



DRAWINGS SCHEDULE

No.	Date	Description
11	09/17	LDP - South Trail - City Council #2
12	09/17	LDP - South Trail - City Council #1
13	10/13	LDP - Pool Parking - City Council #1
14	10/16	LDP - Habitat Plus Area Field Change #1
15	10/19	Maintenance Trail as Seen - Freedom Row
16	11/18	LDP - Pool Parking - City Council #2
17	11/20	LDP - Community Green - City Council #2
18	11/20	LDP - Community Green - City Council #1
19	11/20	NOTICE OF PROCEEDINGS



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

DATE	DRAWN	CHECKED
04/23/20	BM	GZ

SHEET TITLE
PLANTING
DETAILS
COMMUNITY
GREEN

PROJECT NUMBER	15092.00
C9.2C	
DRAWING NUMBER	

Drawing Name: S:\Project\Brookhaven, C:\Murphy, Candler\0 Design\01 Job Info\CAD\C9 Series_MCP-PLANTING Details.dwg
 Date last accessed: 11/22/2020 3:04 PM
 Date last plotted: 11/20/2020 2:24 PM
 Plotted by: Grace Zhang

GEORGIA 811
Ut Utilities Protection Center, Inc.
1-888-282-7411
Know what's below. Call before you dig.

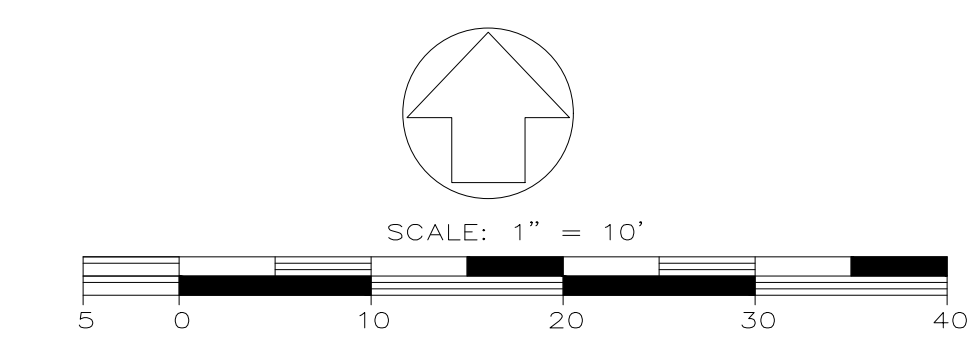
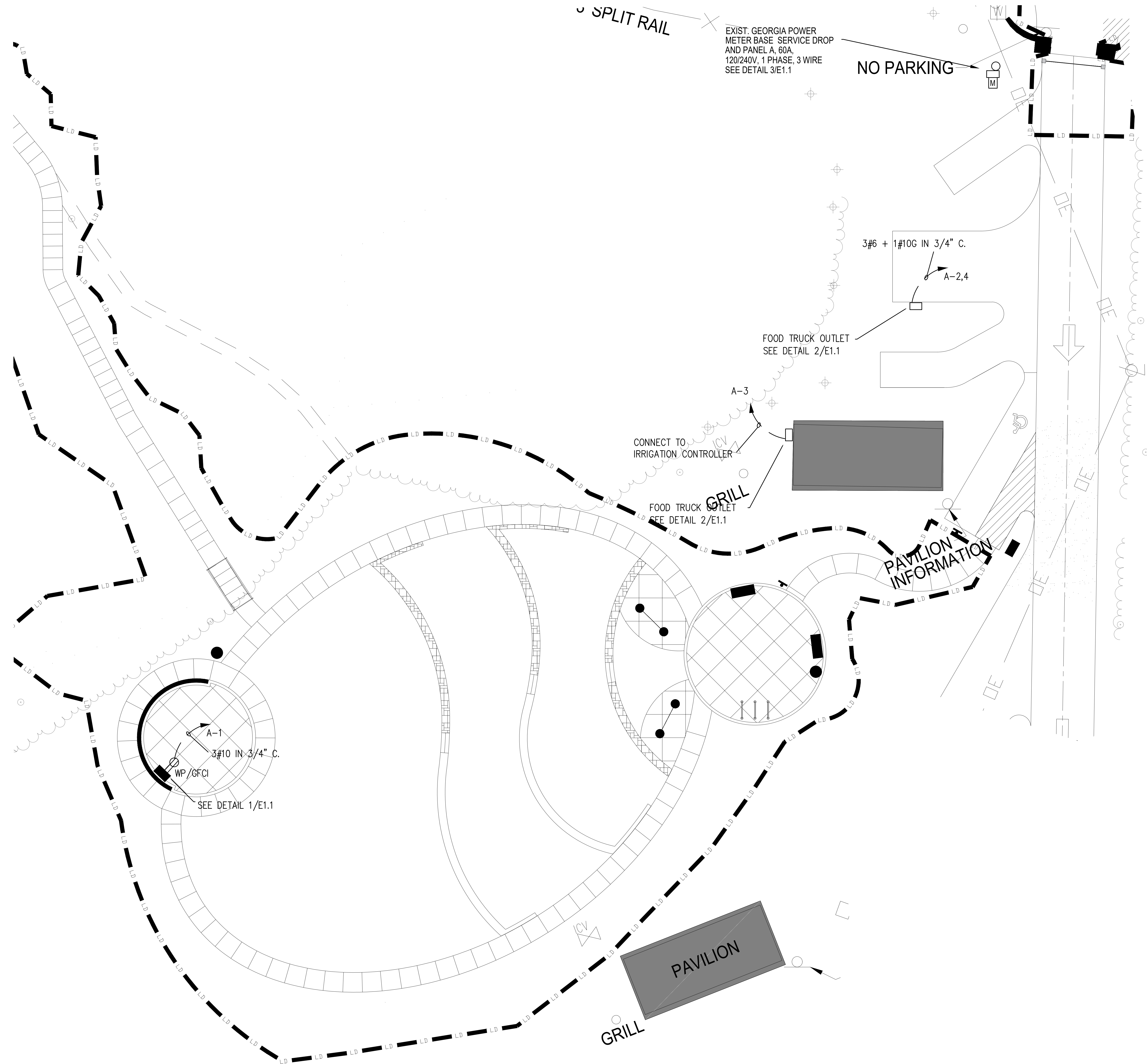
2018 SURVEY & 2019 UPDATED TREE SURVEY
TERRAMARK LAND SURVEYING, INC.
1396 BELLS TERRY ROAD
MARIETTA, GEORGIA 30066
PHONE NO. (770) 421-1927
FAX NO. (770) 421-0552
WWW.TERRAMARK.COM
C. O. A. LSF000810

Drawing Name: D:\CPL\WCP - Community Green\ELEC.dwg
 Date last accessed: 4/7/2021 11:01 AM
 Date last plotted: 4/7/2021 5:03 PM
 Plotted By: Richard Touch



2016 SURVEY & 2019 UPDATED TREE SURVEY
 TERRAMARK LAND SURVEYING, INC.
 1306 BELLS FERRY ROAD
 MARIETTA, GEORGIA 30066
 PHONE NO. (770) 421-1927
 FAX NO. (770) 421-0552
 WWW.TERRAMARK.COM
 C. O. A.# LSF000810

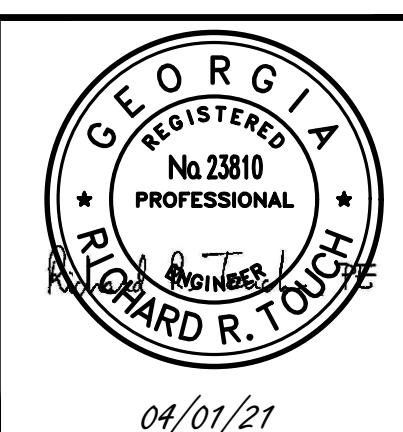
NOTE:
 THE WRESTED VEGETATION
 AND 803 CONTOUR WERE
 SURVEYED IN BY
 TERRAMARK ON FEB. 4,
 2021



Shepherd, Harvey & Associates, Inc.
 4855 River Green Parkway, Suite 400
 Duluth, Georgia 30096-2560
 770-495-4007 FAX 770-495-7112 Project Number: 20-160
 GEORGIA COA # PE19004149 Expires: 06/30/2022



No.	Date	Description
11	09/17	LDP - South Trail - City Council #2
12	09/17	LDP - South Trail - City Council #1
13	10/13	LDP - Pool Parking - City Council #1
14	10/16	LDP - Habitat Play Area Field Change #1
15	10/19	Multimedia Trail in Park - Parkland Review
16	11/18	LDP - Pool Parking - City Council #2
17	11/20	LDP - Community Green - City Council #2
18	11/20	LDP - Community Green - City Council #1
19	11/20	SCOTT'S BROTHERS/ALC DESIGN/ALC/D
20	12/01	Multimedia Trail in Park - Parkland Review
21	12/01	Multimedia Trail in Park - Parkland Review
22	12/30	DRPCC - Submittal
23	01/11	COMMUNITY GREEN - BUILDING PERMIT #1
24	02/04	DRPCC - Submittal
25	02/11	SCOTT'S BROTHERS/ALC DESIGN/ALC/D/DRPCC
26	03/03	DRPCC - Submittal #1



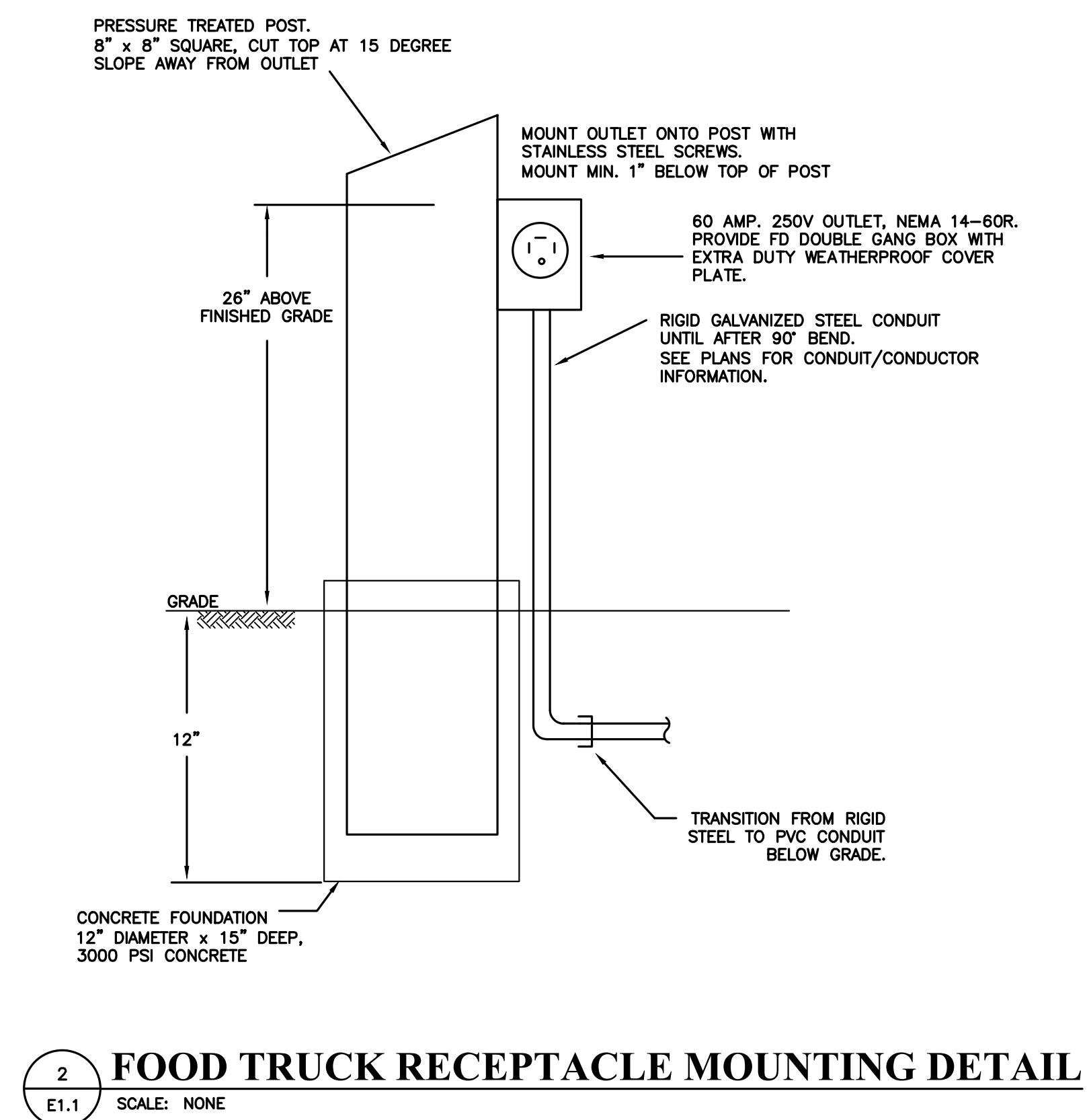
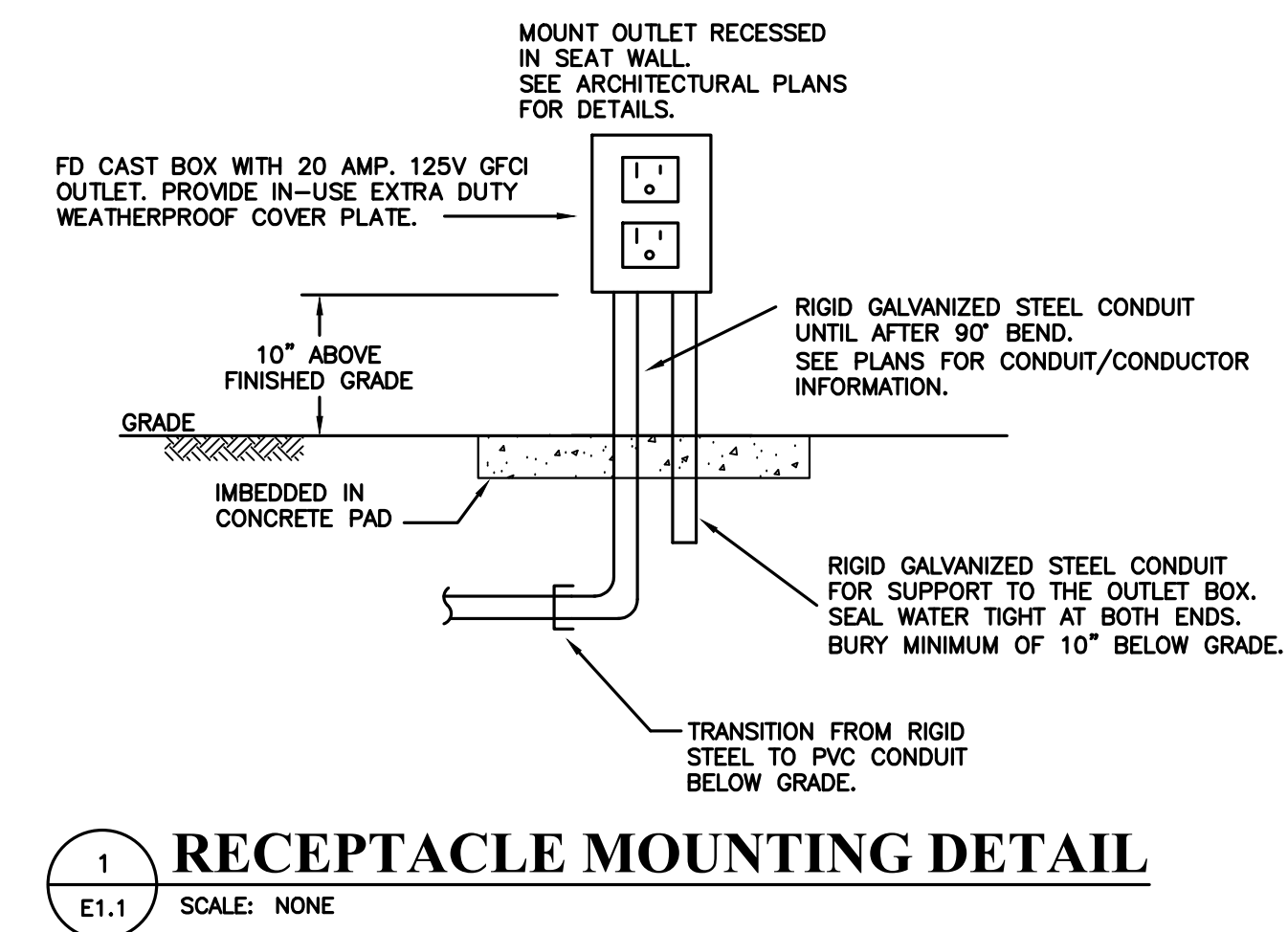
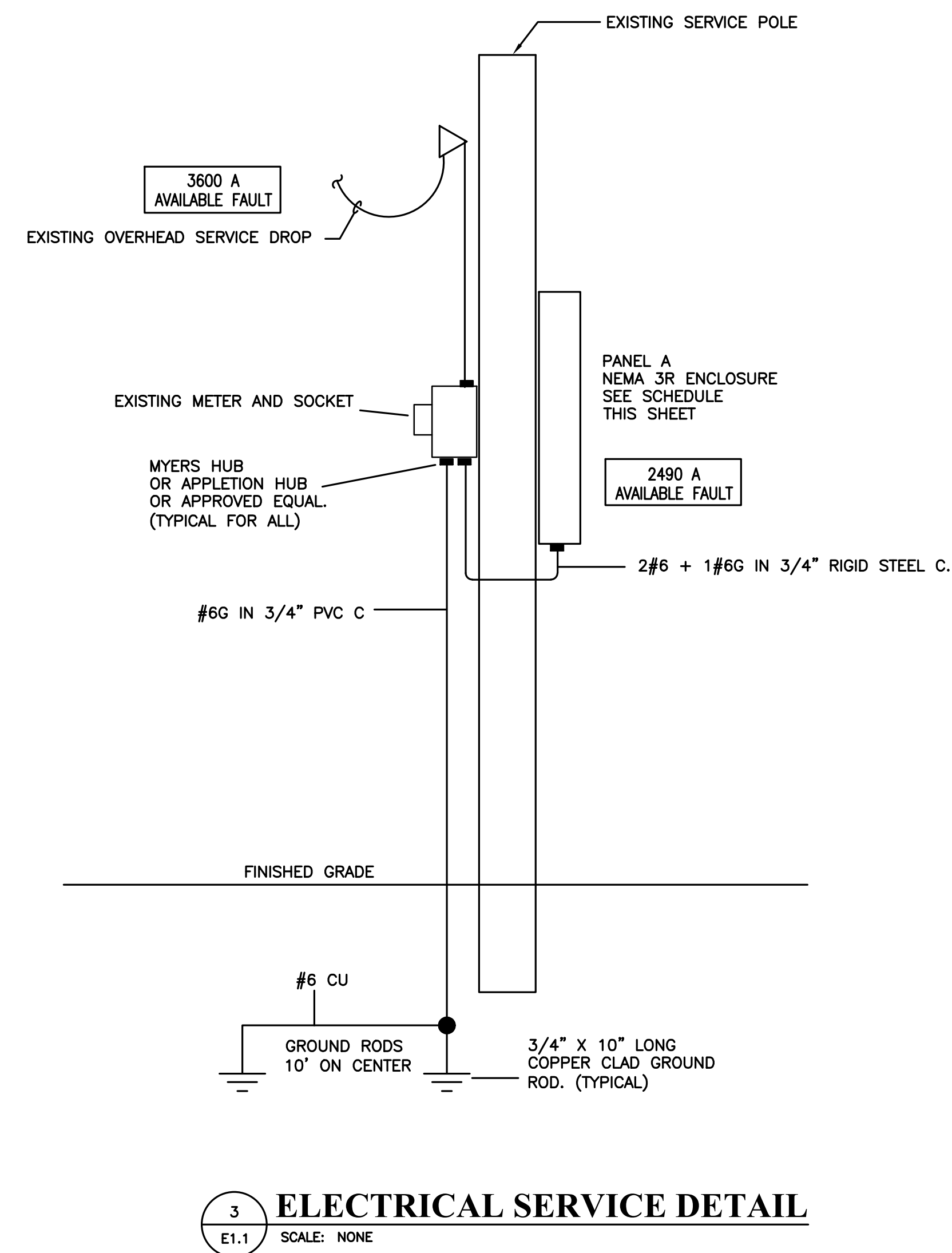
CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
 1551 W. NANCY CREEK DRIVE NE
 BROOKHAVEN, GEORGIA 30319

DATE	DRAWN	CHECKED
03/03/21	RRT	
SCALE		
SHEET TITLE		
ELECTRICAL PLAN		
COMMUNITY GREEN		

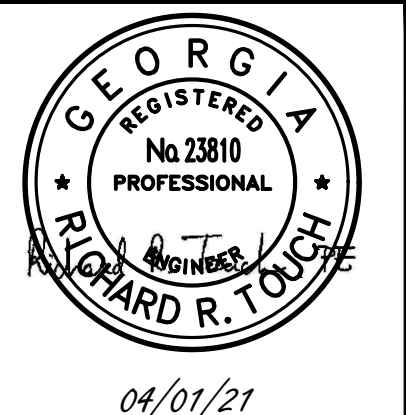
PROJECT NUMBER	15092.00
E1.0	
DRAWING NUMBER	

LOAD CALCULATION	
RECEPTACLES	180 VA
FOOD TRUCK RECEPTACLE	10,000 VA
IRRIGATION CONTROLLER	100 VA
TOTAL	10,280 VA
LOAD IN AMP: $\frac{10,280 \text{ VA}}{240 \text{ V}} = 42.8 \text{ AMP}$	
TOTAL DEMAND: $42.8 \text{ A} \times 1.25 = 53.5 \text{ A}$	
SERVICE IS 60A AT 120/240V, 1 PHASE, 3 WIRE	

PANEL A																					
VOLTAGE: 120/240V 3 PHASE, 4 WIRE				AMPS: 60 MB TOTAL LOAD: 10.3 KVA				SURFACE				RAINFOOF									
No.	SERVES	LOAD (KVA)				BRKR	TRIP	PH		BRKR	LOAD (KVA)				SERVES	No.					
		LTG	RCPT	MTR	A/C			KITCH	MISC		A	B	MISC	KITCH			A/C	MTR	RCPT	LTG	
1	RECEPTACLE		0.18				20	1		5.18					5.00	RECEPT. FOOD TRUCK	2				
3	IRRIGATION CONT.									5.10					5.00		4				
										5.18	5.10			0.10	0.00	0.00	0.00	10.18	0.00	CONNECTED KVA	10.28



DRAWINGS SCHEDULE		
No.	Date	Description
11	09/17	LDP - South Trail - City Council #2
12	09/17	LDP - South Trail - City Council #2
13	10/13	LDP - Pool Parking - City Council #1
14	10/16	LDP - National Play Area Field Change #1
15	10/19	Multi-use Trail in South - Redwood Reserve
16	11/18	LDP - Pool Parking - City Council #2
17	11/20	LDP - Community Green - City Council #2
18	11/20	LDP - Redwood Reserve - City Council #2
19	11/20	ACR/PA - BROWNSVILLE DEVELOPMENT
20	12/01	Multi-use Trail in South - Redwood Reserve
21	12/01	Multi-use Trail in South - Redwood Reserve
22	12/30	SEPP/2 - Submittal
23	01/11	COMMUNITY GREEN - BUILDING PERMIT #1
24	02/04	SEPP/2 - Submittal #1
25	02/11	ACR/PA - BROWNSVILLE DEVELOPMENT
26	03/03	SEPP/2 - Submittal #3



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

DATE	DRAWN	CHECKED
03/03/21	RRT	
SCALE		
SHEET TITLE		

LEGEND AND DETAILS

PROJECT NUMBER	15092.00
DRAWING NUMBER	E1.1



2016 SURVEY & 2019 UPDATED TREE SURVEY
TERRAMARK LAND SURVEYING, INC.
1306 BELLS FERRY ROAD
MARIETTA, GEORGIA 30066
PHONE NO. (770) 421-1927
FAX NO. (770) 421-0552
WWW.TERRAMARK.COM
C. O. A.# LSF000810

NOTE:
THE WRESTED VEGETATION
AND 893 CONTOUR WERE
SURVEYED IN BY
TERRAMARK ON FEB. 4,
2021

Shepherd, Harvey & Associates, Inc.
4855 River Green Parkway, Suite 400
Duluth, Georgia 30096-2560
770-495-4467 FAX 770-495-7112 Project Number: 20-160
GEORGIA COA # PE19004149 Expires: 06/30/2022

Drawing Name: D:\CPL\WCP - Community Green\ELEC.dwg Date last accessed: 4/7/2021 11:01 AM Date last plotted: 4/7/2021 5:02 PM Plotted By: Richard Touch

NOTE:
ALL IRRIGATION LINES WILL BE STAKED IN THE FIELD AND ADJUSTED TO THE TREES BEFORE TRENCHING. CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND THE STAKEOUT AND REVIEW BY THE OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DAMAGING TREES THAT OTHERWISE DID NOT HAVE TO BE DAMAGED. SEE TREE PENALTY CLAUSE IN THE DEMOLITION SECTION OF THE PROJECT MANUAL. HAND DIGGING OF SOME TRENCHLINES MAY BE REQUIRED. THAT DETERMINATION WILL BE MADE BY OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT WHEN PROPOSED TRENCHLINES ARE REVIEWED AND APPROVED.

Note:
Installation Contractor shall be responsible to locate the Existing Hose Bib on site that Existing Meter Currently feeds and ensure that it is properly piped to the new Irrigation Mainline. Location and Routing Shown on Plan for reference purposes only

Note:
Install bubbler/lateral piping adjacent to sidewalk to minimally impact tree root zone areas.

Existing 1-1/2" Irrigation Meter. System Requires 50 GPM @ 65 PSI. Irrigation Contractor shall Verify Requirements at Site Before Starting Construction. Coordinate with Civil Drawings and at site to determine actual meter location.

Approximate Irrigation Controller Location. Owner's Representative Shall Pinpoint Exact Location at Site. Irrigation Contractor Shall Hardwire 120 VAC Power to Controller.

Approximate Existing Hose Bib Location

IRRIGATION LEGEND

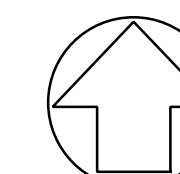
- EXISTING 1-1/2" WATER METER. SYSTEM REQUIRES 50 GPM @ 75 PSI. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE SYSTEM REQUIREMENTS AT SITE BEFORE STARTING CONSTRUCTION.
- MANUAL DRAIN VALVE. SCH 80 PVC TRUE UNION BALL VALVE. DETAIL-E.
- NEW WATTS #909-M1-QT-2", 2" REDUCED PRESSURE ASSEMBLY BACKFLOW PREVENTER. DETAIL-F.
- NEW WINTERIZATION ASSEMBLY. DETAIL-D.
- RAIN BIRD ESP-8-LX-ME CONTROLLER. 8 STATION, MODULAR CONTROLLER, FOUR PROGRAMS, WALL MOUNTED. DETAIL-J. IRRIGATION CONTRACTOR SHALL ALSO INSTALL A WIRELESS MINI CLICK II RAIN SENSOR AND A FREEZE-CLICK DEVICE.
- RAIN BIRD 150-PEB-PRS PLASTIC ELECTRIC REMOTE CONTROL VALVE. 1 1/2" SIZE. MOUNTED WITH SCH 80 PVC TRUE UNION BALL VALVE WITH PRESSURE REGULATION DEVICES. DETAIL-A.
- RAIN BIRD 100-PEB-PRS PLASTIC ELECTRIC REMOTE CONTROL VALVE. 1" SIZE. MOUNTED WITH SCH 80 PVC TRUE UNION BALL VALVE WITH PRESSURE REGULATION DEVICES. DETAIL-A.
- 6" POP UP TREE BUBBLER RAIN BIRD 1806-SAM WITH 8" MPR NOZZLE (FULL CIRCLE). 1.0 GPM. DETAIL-C.
- HUNTER INDUSTRIES MP ROTATOR SERIES 3000, MOUNTED ON RAIN BIRD 1806-SAM SPRINKLER IN LAWN, 30" RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 40 PSI, DETAIL-C.
- HUNTER INDUSTRIES MP ROTATOR SERIES 2000, MOUNTED ON RAIN BIRD 1806-SAM SPRINKLER IN LAWN, 20" RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 40 PSI, DETAIL-C.
- RAIN BIRD #5 QUICK COUPLING VALVE 1" SIZE. CONTRACTOR TO SUPPLY TWO QCV KEYS AND MATCHING HOSE SWIVELS. DETAIL-B.
- SCH 80 PVC TRUE UNION BALL VALVE. SIZED SAME AS MAINLINE. MOUNTED IN CARSON VALVE BOX. DETAIL-Q.
- MAINLINE PIPE: 2" SIZE IF NOT NOTED. CLASS 200 PVC SOLVENT WELD PIPE UTILIZING SCH 40 PVC SOLVENT WELD FITTINGS.
- IRRIGATION SLEEVE: CLASS 200 PVC. SIZE NOTED ON PLAN. DETAIL-H.
- LATERAL LINE PIPE: CLASS 200 PVC SOLVENT WELD PIPE UTILIZING SCH 40 PVC SOLVENT WELD FITTINGS. SIZE NOTED.
- 3" ELECTRICAL CONDUIT SLEEVE.

NOTES:

1. ALL SPRINKLERS WILL BE MOUNTED ON (3) MARLEX STREET ELLS WITH A SCHED. 80 NIPPLE SIZE OF SPRINKLER INLET.
2. CONTRACTOR TO UTILIZE A AUTOMATIC DRAIN CHECK VALVE DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.
3. ALL WIRE WILL BE COLOR CODED DIRECT BURIAL ULULF WIRE: COMMON (WHITE) #12-1, CONTROL (RED) #14-1.
4. ALL PIPING AND WIRING UNDER HARDTOPS WILL BE IN CLASS 200 PVC PIPE SLEEVE.

TYPICAL VALVE INDICATOR

- 28.5 GALLONS PER MIN.
- 10 STATION NUMBER
- 1 1/2" VALVE SIZE

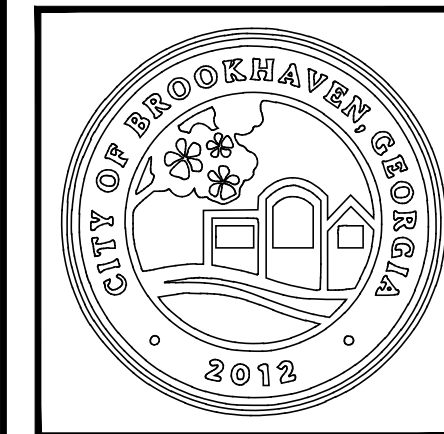


SCALE: 1"=10'



GENERAL NOTES

1. ALL MAINLINES TO HAVE A MINIMUM OF 18" OF COVER. (CLASS 200 PVC PIPE).
2. ALL LATERAL AND SUB-MAIN PIPE TO HAVE A MINIMUM OF 12" OF COVER. (CLASS 200 PVC PIPE).
3. NO ROCKS, BOULDER OR OTHER EXTRANEIOUS MATERIALS TO BE USED IN BACKFILLING OF TRENCH.
4. ALL PIPE TO BE INSTALLED AS PER MANUFACTURERS' SPECIFICATIONS.
5. ALL THREADED JOINTS TO BE COATED WITH TEFLON TAPE OR LIQUID TEFLON.
6. ALL LINES TO BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF SPRINKLER HEADS.
7. SPRINKLER AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS.
8. ALL ELECTRICAL JOINTS TO BE MADE USING WATERPROOF CONNECTIONS AS SHOWN ON DETAILS.
9. ALL EQUIPMENT NOT SPECIFIED IN THE LEGEND SHALL BE DETERMINED AND FURNISHED BY THE CONTRACTOR.
10. NO ELECTRICAL CONNECTIONS SHALL BE MADE IN THE FIELD EXCEPT AT A VALVE CONTROL BOX OR ANOTHER VALVE BOX SPECIFICALLY FOR CONNECTIONS.
11. ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET MUST BE REFERRED TO THE IRRIGATION CONSULTANT BY THE CONTRACTOR FOR CLARIFICATION BEFORE PRECEEDING WITH THE WORK.
12. ALL 24 VOLT WIRE SHALL BE #12 UF/UL FOR COMMON WIRE, AND #14 UF/UL FOR CONTROL WIRES. DIRECT BURIAL. SOLID COPPER.
13. CONTRACTOR TO BE RESPONSIBLE FOR PROPER COVERAGE OF AREAS TO BE WATERED. I.E. ADJUST HEADS WITH INSUFFICIENT COVERAGE DUE TO BLOCKAGE BY EXISTING OR PROPOSED SITE FEATURES.
14. CONTRACTOR TO REFER TO LANDSCAPE PLAN TO KEEP SPRINKLER EQUIPMENT AND ACCESSORY MATERIAL FROM INTERFERING WITH PROPER PLANTING. I.E. VERIFY ROOT BALL SIZE FOR PLANTING.
15. CONTRACTOR SHALL PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX (WRAP AROUND 3/4" PIPE, 12 TIMES).
16. CONTRACTOR TO UTILIZE APPROPRIATE AUTOMATIC DRAIN DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.
17. ALL SPRINKLERS TO BE MOUNTED ON SWING JOINTS - REFER TO DETAILS.
18. CONTRACTOR SHALL UTILIZE VALVE I.D. TAGS ON ALL REMOTE CONTROL VALVES.
19. 24 VOLT WIRE SHALL BE COLOR CODED: COMMON-WHITE, CONTROL-RED.
20. CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDED GROUNDING EQUIPMENT FOR POWER SUPPLY AND VALVE OUTPUT WITH (2) 5/8" COPPER CLAD GROUND RODS.
21. CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDATION ON FAULT GROUND AND LIGHTNING PROTECTION.
22. CONTROLLER GROUNDING MUST BE AS PER ASIC REQUIREMENTS
23. ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR TO OWNER:
 - A. TWO WRENCHES FOR DISASSEMBLING AND ADJUSTING EACH TYPE OF SPRINKLER HEADS AND VALVE SUPPLIED.
 - B. TWO KEYS FOR EACH OF THE AUTOMATIC CONTROLLERS.
 - C. TWO QUICK COUPLER KEYS WITH MATCHING HOSE SWIVELS.
24. SYSTEM IS DIAGRAMMATIC TO IMPROVE CLARITY. ALL MAINLINE PIPING ELECTRIC VALVES AND WIRING ARE TO BE INSTALLED IN LANDSCAPE AREAS AND WITHIN PROPERTY BOUNDARIES. CONTRACTOR SHALL REFER TO THE LANDSCAPE PLAN PRIOR TO THE INSTALLATION OF PIPING TO AVOID CONTACT WITH PLANT MATERIALS EXISTING OR NEW.
25. CONTRACTOR TO ADD EXTENSION RISER TO POP-UP HEADS WHEN NEEDED FOR PROPER COVERAGE.
26. CONTRACTOR SHALL INSTALL SPRINKLER EQUIPMENT 12" FROM FOUNDATIONS. ALSO INSTALL SPRINKLERS 4" FROM CURB OR WALKS.
27. PRIOR TO BID IRRIGATION CONTRACTOR SHALL VERIFY RIGHT-OF-WAY AND BACKFLOW REQUIREMENTS. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY CONSULTANT OF ANY CHANGES FROM PLANS AND SPECIFICATIONS.
28. IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER AND LANDSCAPE ARCHITECT WITH A REPRODUCIBLE CROSS MEASURED AS-BUILT DRAWING OF THE INSTALLED IRRIGATION SYSTEM IN AUTOCAD 2010 FORMAT BEFORE FINAL ACCEPTANCE.
29. A 1-YEAR WARRANTY PERIOD SHALL BE PROVIDED FOR SYSTEM AFTER SUBSTANTIAL COMPLETION IS ACCEPTED. START UP AND ADJUSTING OF SYSTEM IN SPRING TIME SHALL BE INCLUDED IN WARRANTY.
30. PRIOR TO BID, CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, INSTALLATION PARAMETERS AND OPERATIONS CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY IRRIGATION CONSULTANT/DESIGNER OF ANY CHANGES REQUIRED DUE TO CURRENT CODE OR ORDINANCE DISCREPANCIES. IF IRRIGATION INSTALLATION CONTRACTOR SHALL PROVIDE OWNER WITH A COLOR-CODED ZONES DIAGRAM PLAN, 8-1/2"x11" LAMINATED SHEET(S), TO IDENTIFY CONTROLLER STATION TO THE CONTROL VALVE NUMBER FOR EACH CONTROLLER. TO BE LOCATED IN ADHESIVE POUCH ATTACHED INSIDE OF CONTROLLER(S).
31. UNLESS OTHERWISE NOTED, THE CONTRACTOR MUST COMPLETE 2 PRESSURE TESTS OF THE IRRIGATION SYSTEM MAINLINE (BOTH TO SHOW NO DROP IN PRESSURE DURING DURATION OF TEST.
 - A. 2-HOUR PRESSURE TEST AT 1.5 TIMES THE SYSTEM STATIC PRESSURE
 - B. 24-HOUR PRESSURE TEST AT THE SYSTEM STATIC PRESSURE
32. IRRIGATION INSTALLATION CONTRACTOR SHALL PROVIDE OWNER WITH A COLOR-CODED ZONES DIAGRAM PLAN, 8-1/2"x11" LAMINATED SHEET(S), TO IDENTIFY CONTROLLER STATION TO THE CONTROL VALVE NUMBER FOR EACH CONTROLLER. TO BE LOCATED IN ADHESIVE POUCH ATTACHED INSIDE OF CONTROLLER(S).



No.	Date	Description
11	09/17	LDP - South Trail - City Council #2
12	09/17	LDP - South Trail - City Council #2
13	10/13	LDP - Pool Parking - City Council #1
14	10/16	LDP - Natural Play Area Field Change #1
15	10/19	Multi-use Trail on Dan - Parkland Request
16	11/18	LDP - Pool Parking - City Council #2
17	11/20	LDP - Community Green - City Council #2
18	11/20	LDP - Community Green - City Council #2
19	11/20	NORTH BOUNDARIES DESIGN/AS-BUILT
20	12/01	Multi-use Trail on Dan - Parkland Request #1
21	12/01	Multi-use Trail on Dan - Parkland Request #2
22	12/02	CONTRACT SUBMITTAL
23	01/11	COMMUNITY GREEN - BUILDING PERMIT #1
24	02/04	CONTRACT SUBMITTAL
25	02/11	NORTH BOUNDARIES DESIGN/AS-BUILT #2



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

DATE	DRAWN	CHECKED
04/08/21	ICS	MC

SCALE
SHEET TITLE
IRRIGATION PLAN

PROJECT NUMBER	15092.00
DRAWING NUMBER	11.1



No.	Date	Description
11	09/17	LDP - South Trail - City Council #2
12	09/17	LDP - South Trail - City Council #1
13	10/13	LDP - Peachtree - City Council #1
14	10/16	LDP - Habitat Play Area Field Change #1
15	10/19	Multi-use Trail on Dan - Peachtree Road
16	11/18	LDP - Peach Parking - City Council #2
17	11/20	LDP - Community Green - City Council #2
18	11/20	LDP - Westside Park - City Council #1
19	11/20	NORTH BOUNDARY DESIGN/ALC
20	12/01	Multi-use Trail on Dan - Peachtree Road
21	12/11	Multi-use Trail on Dan - Peachtree Road
22	12/30	GENCC Submittal
23	01/11	COMMUNITY GREEN - BUILDING PERMIT #1
24	02/04	CONTRACT DOCUMENT #1
25	02/11	NORTH BOUNDARY DESIGN/ALC/UPDATES

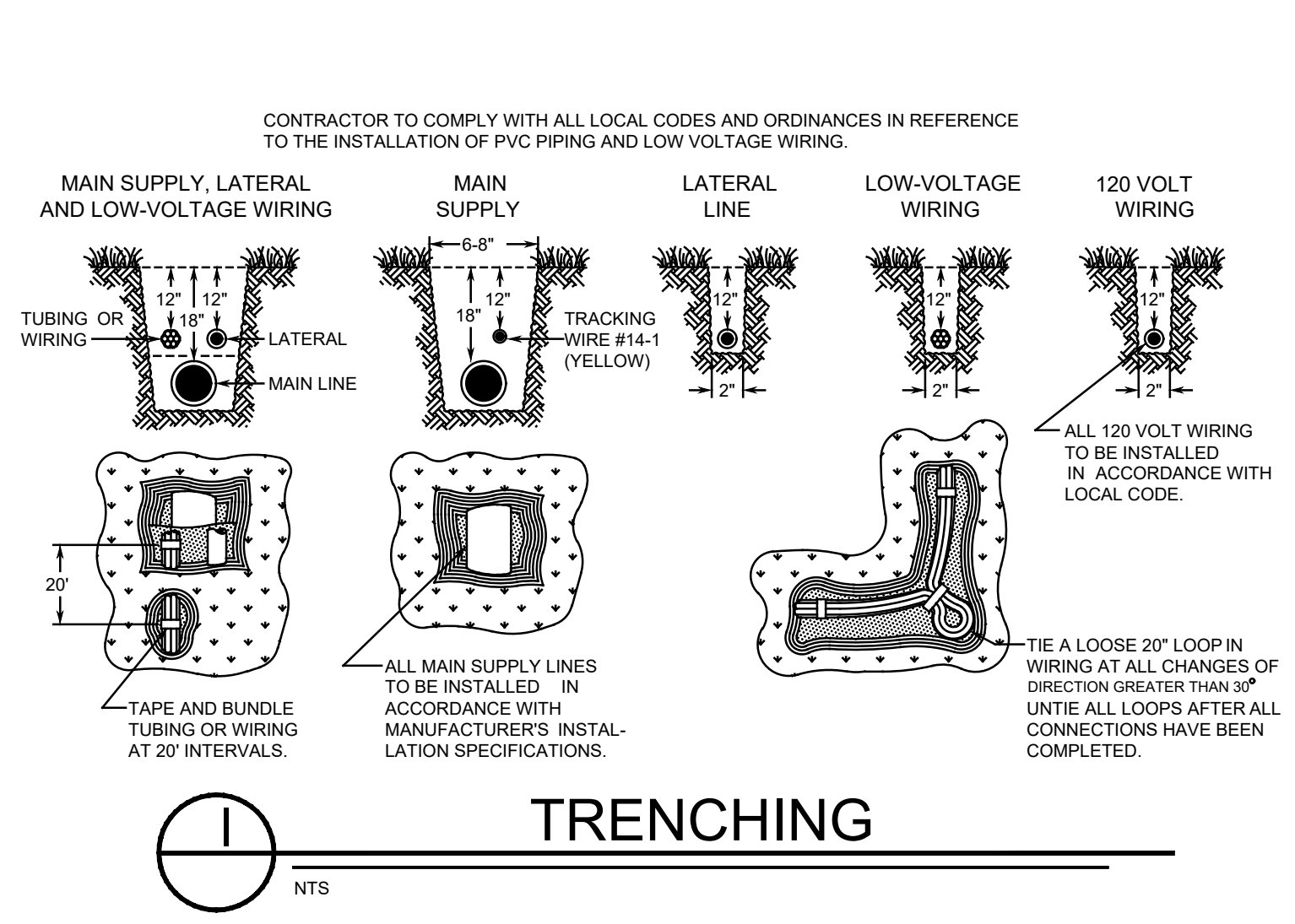
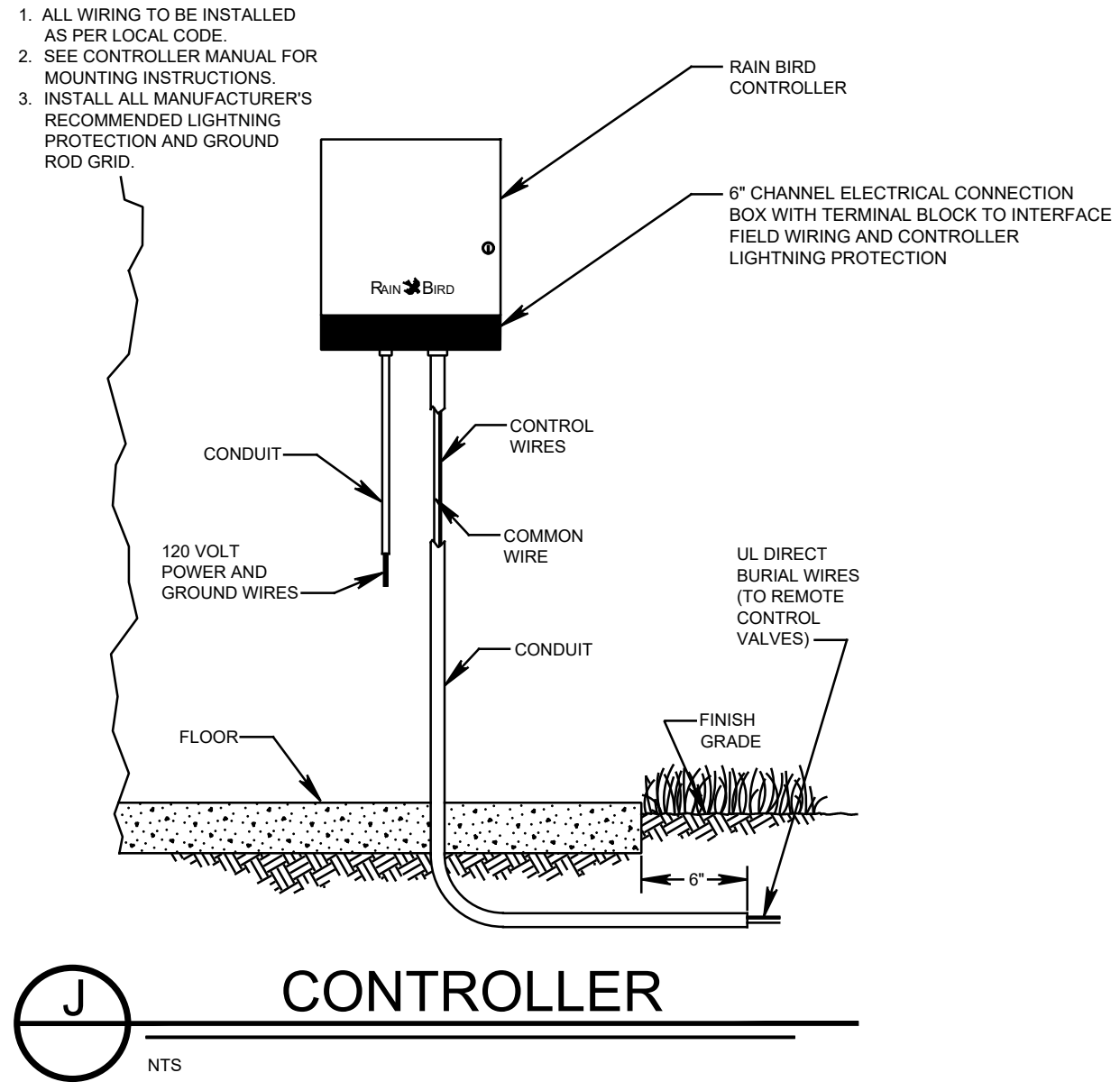
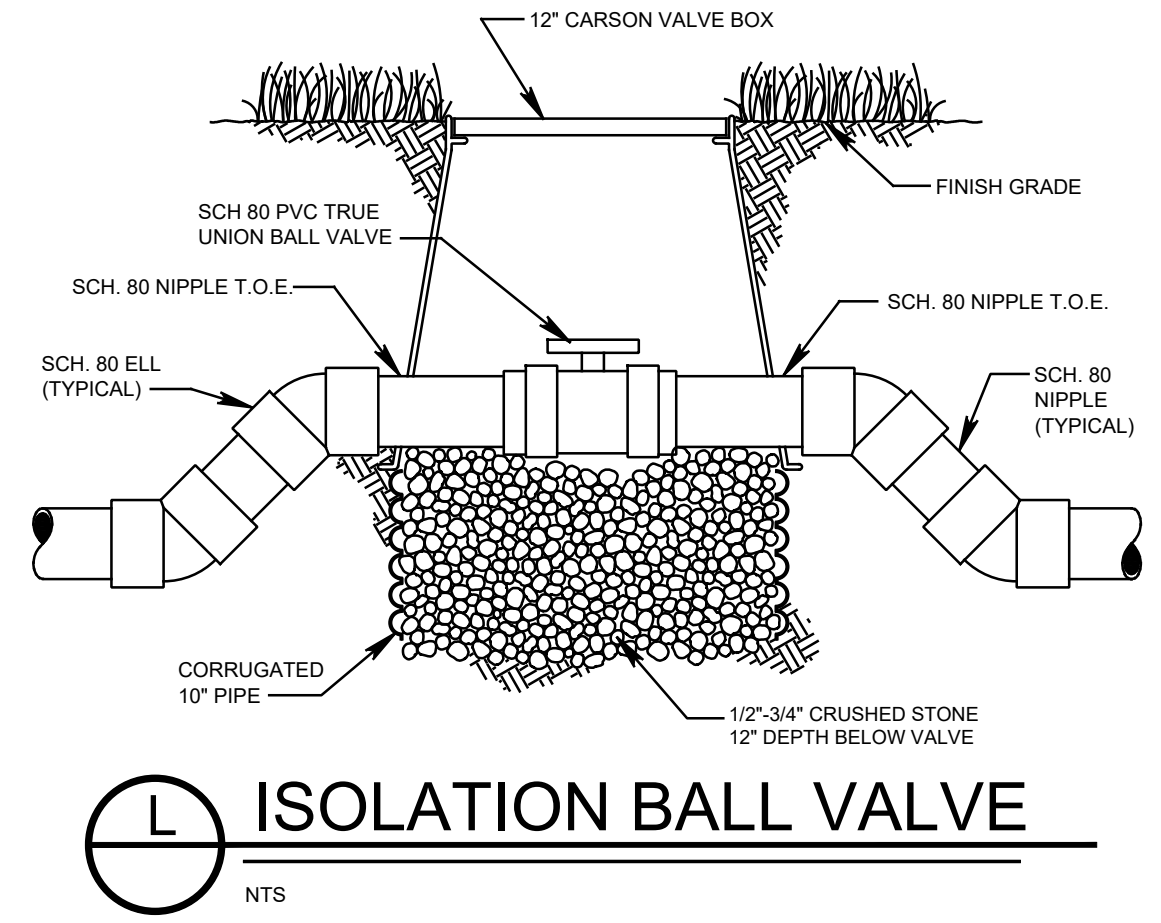
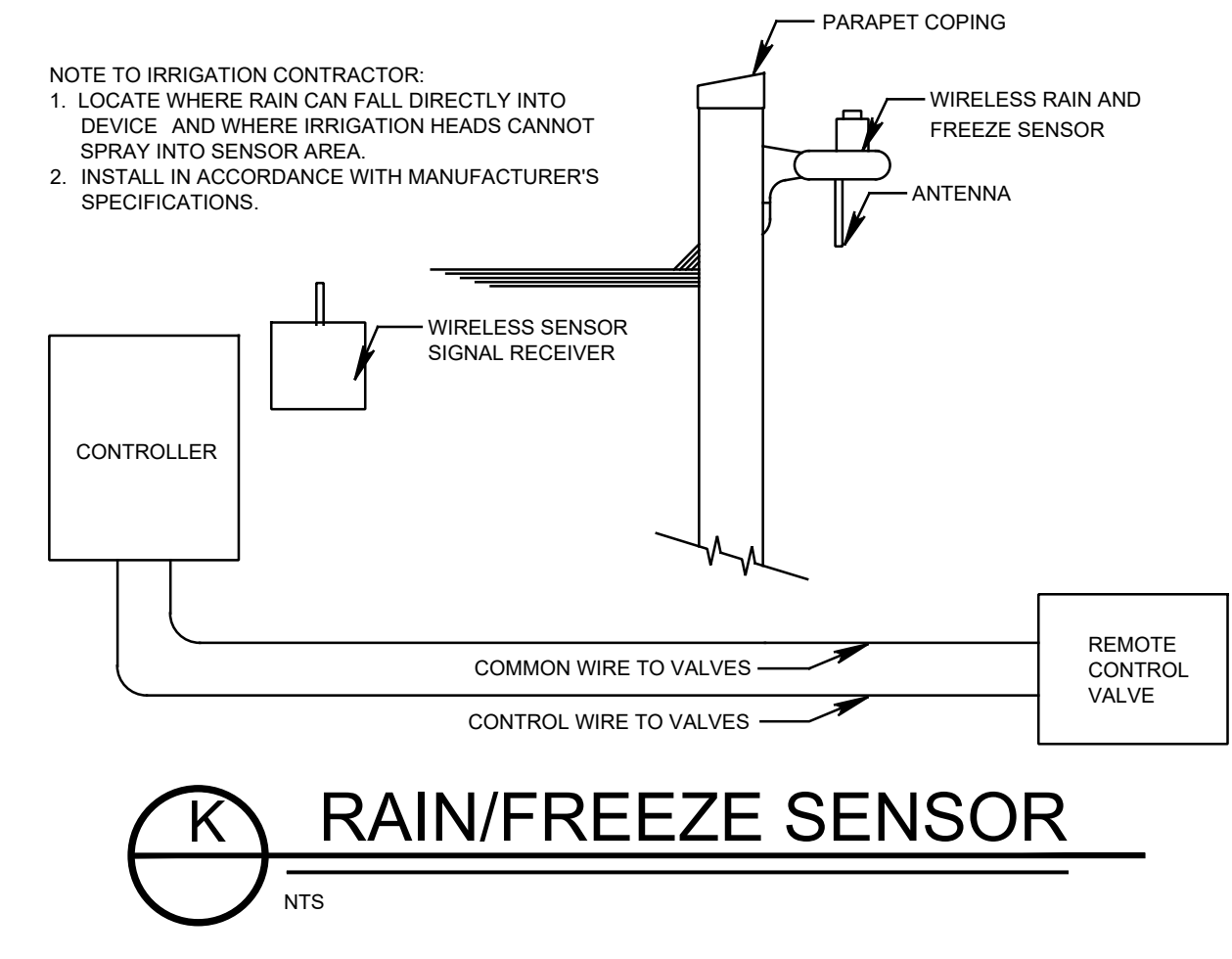
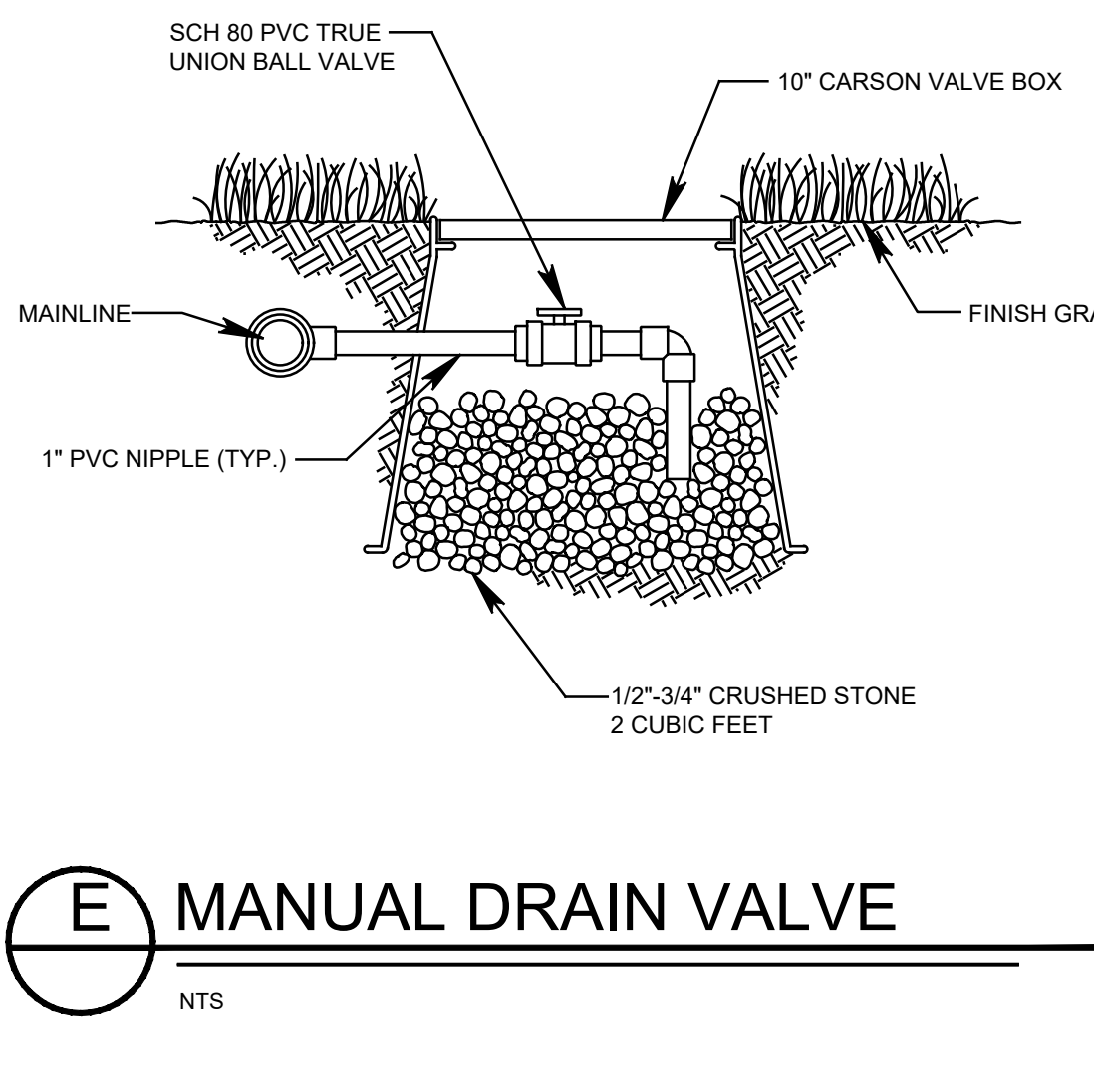
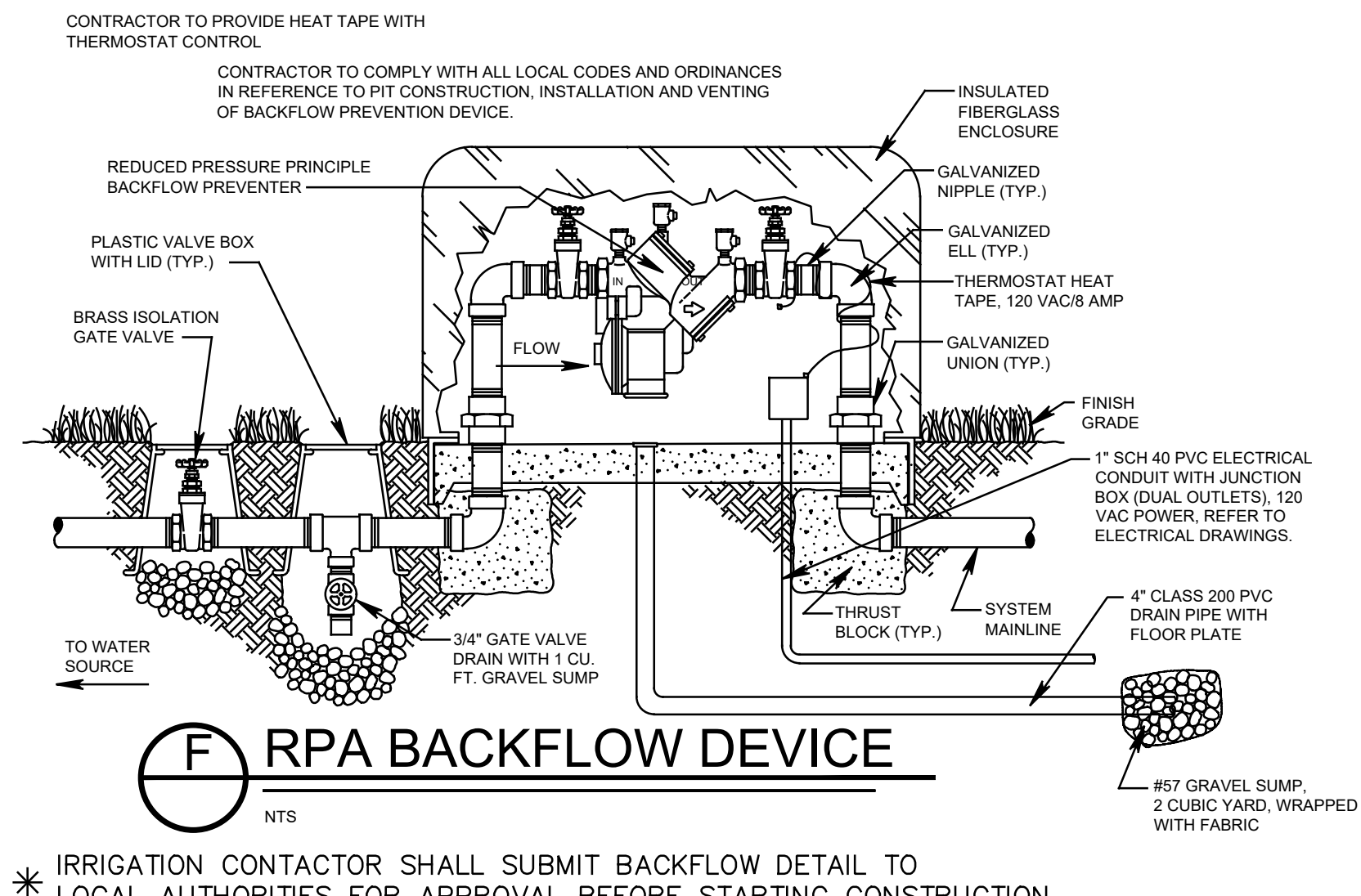
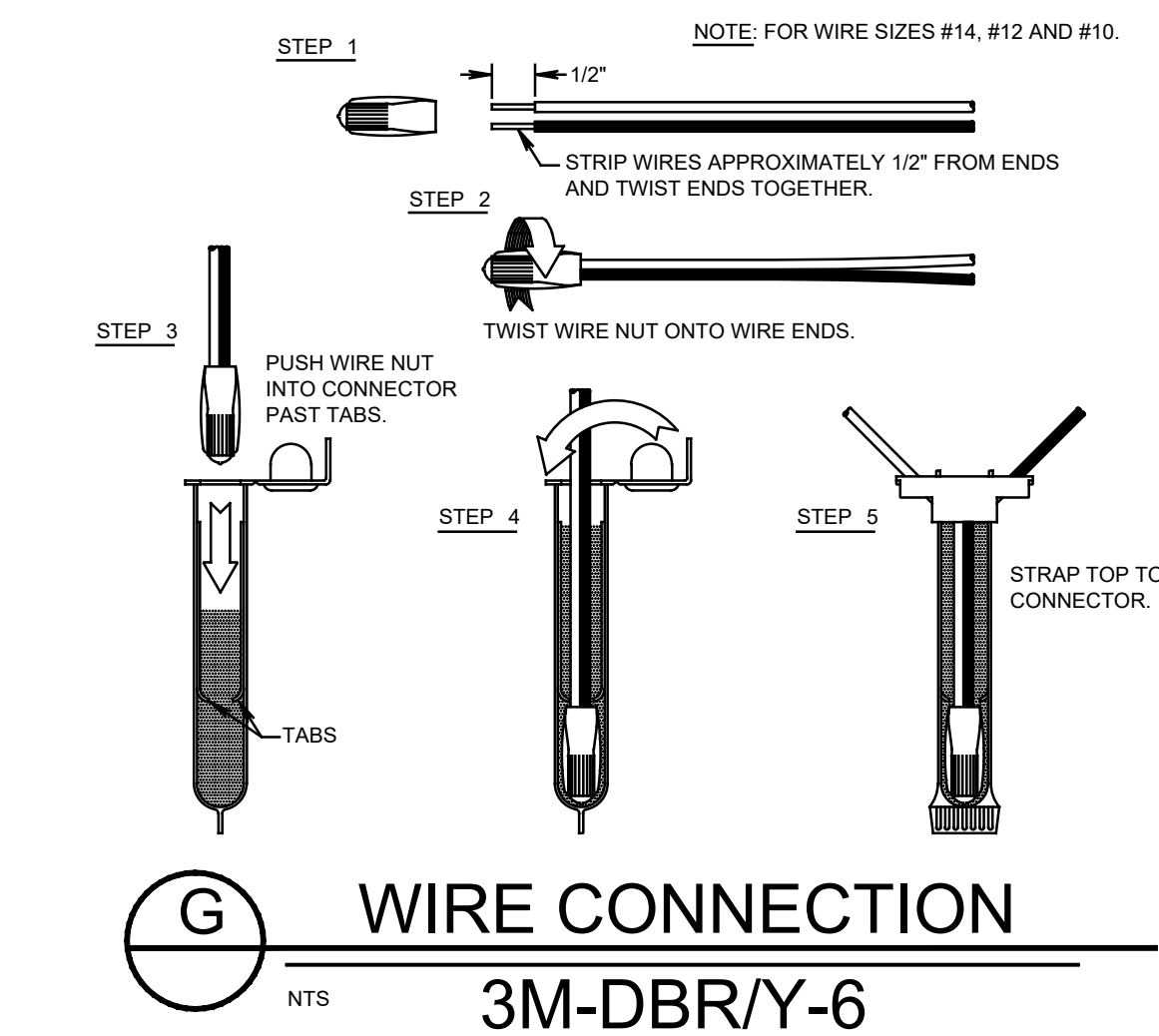
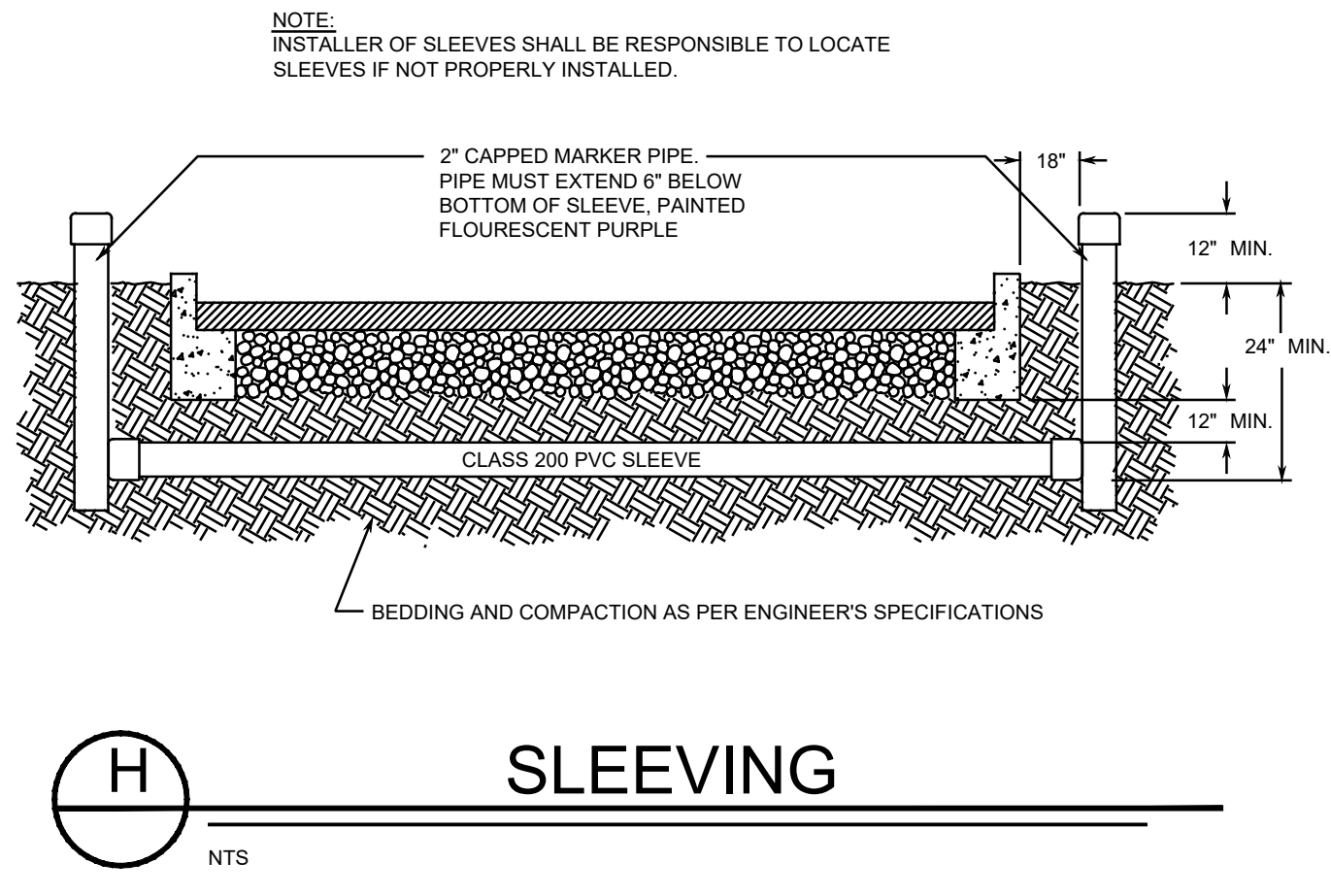
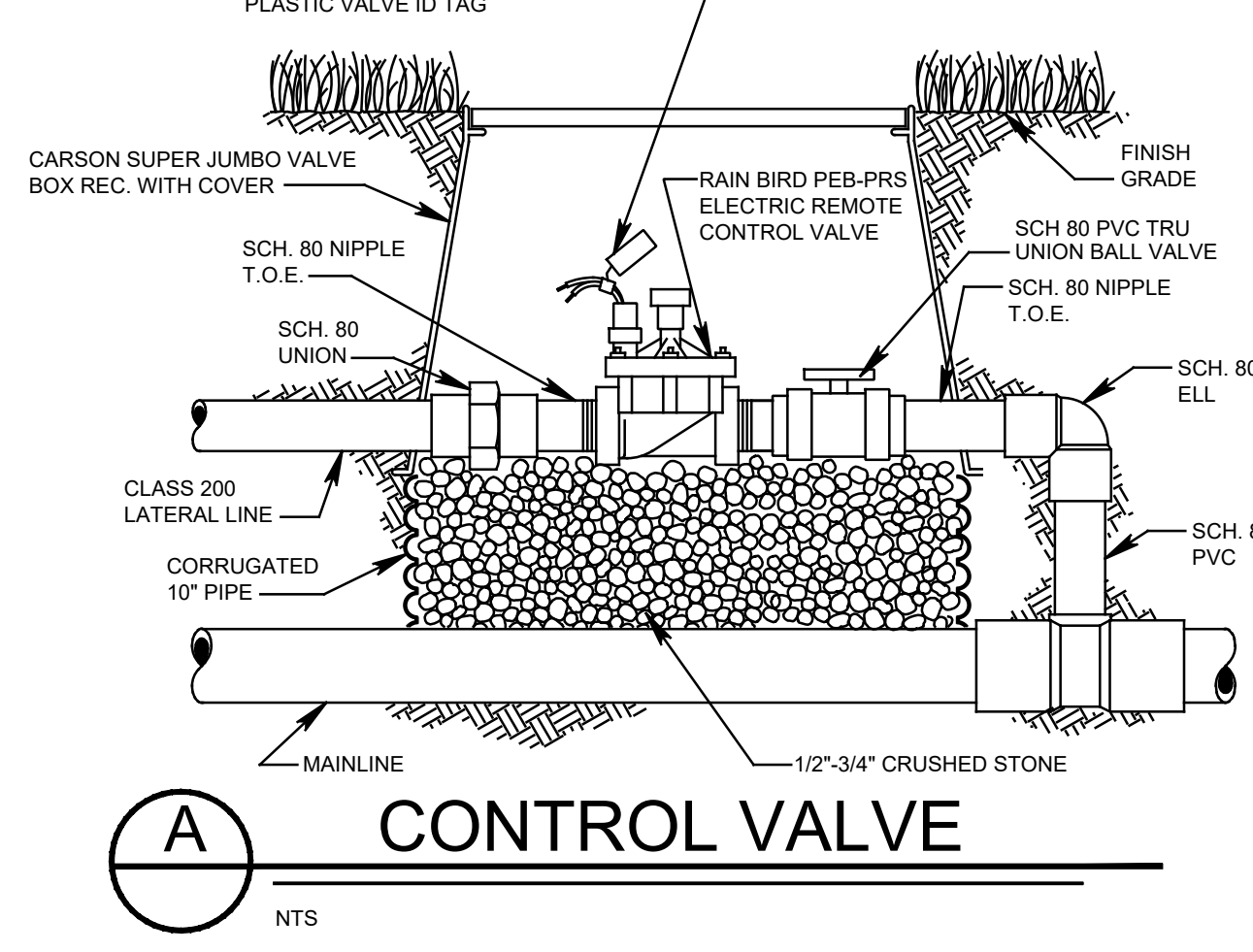
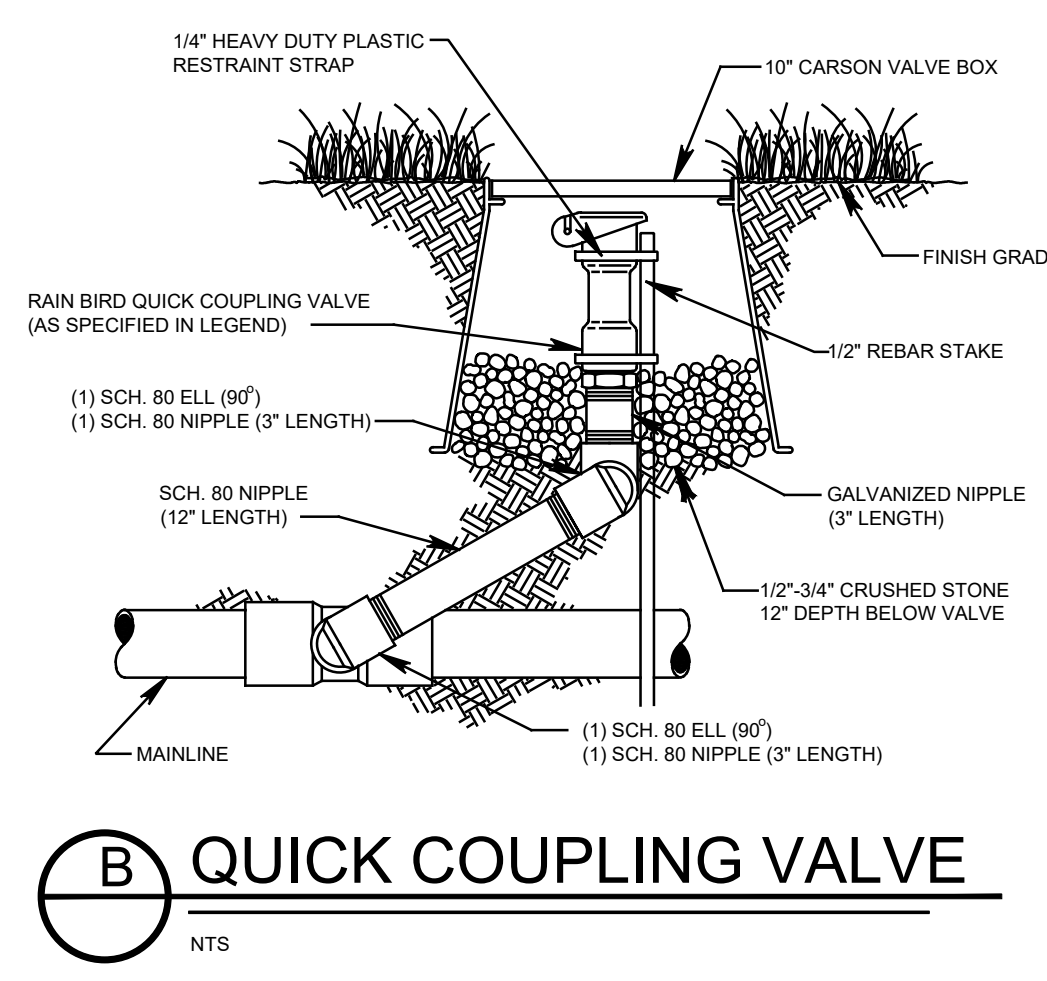
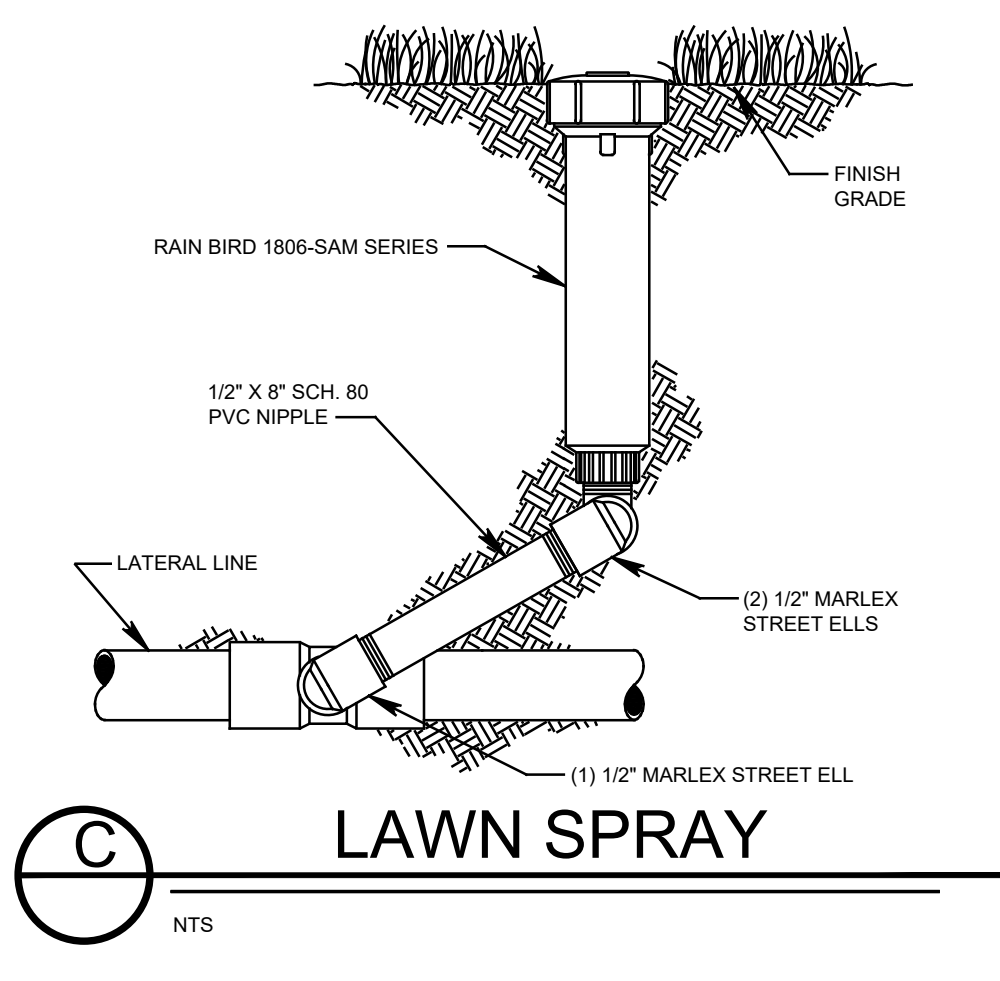
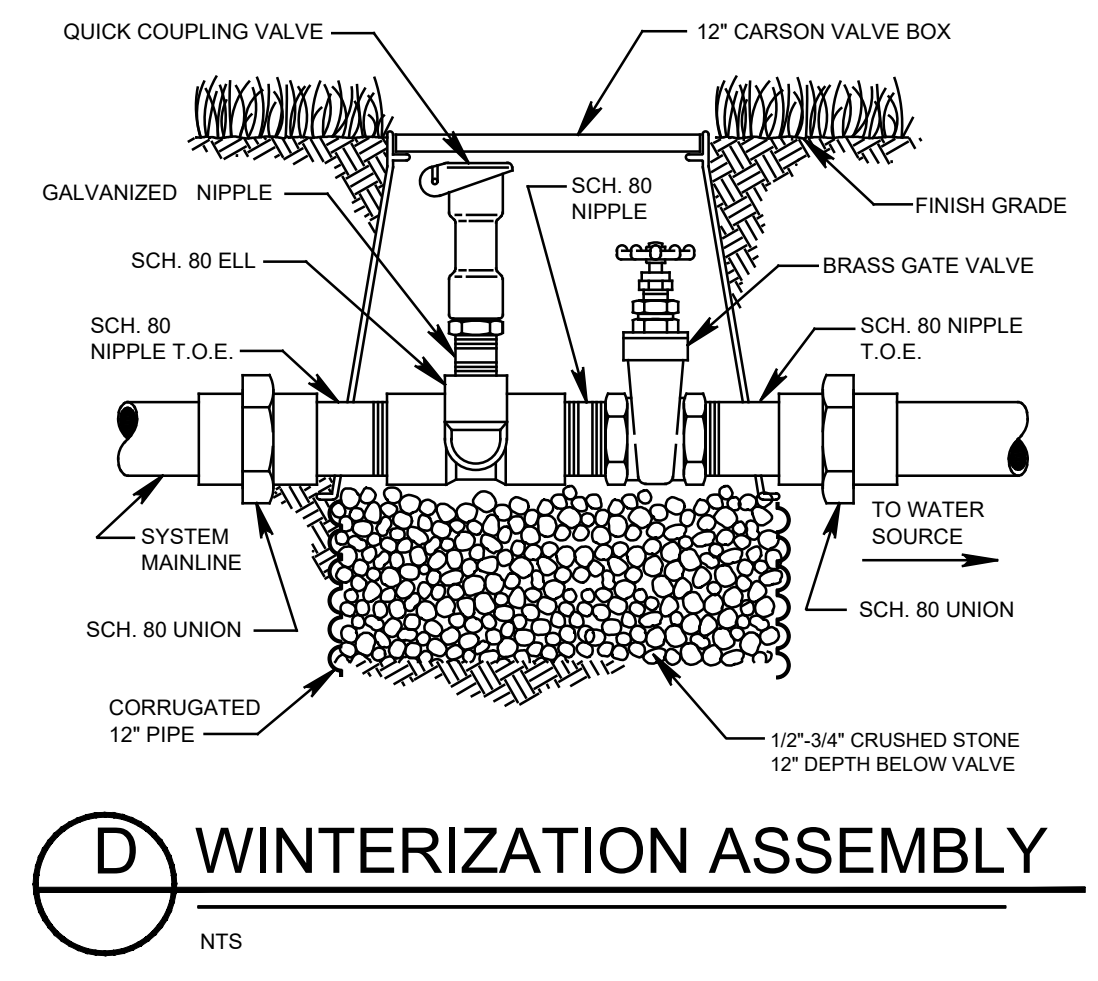


CITY OF BROOKHAVEN
MURPHY CANDLEY PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

DATE	DRAWN	CHECKED
04/08/21	ICS	MC
SCALE		
SHEET TITLE		

IRRIGATION
DETAILS

PROJECT NUMBER	15092.00
	11.2
DRAWING NUMBER	



* IRRIGATION CONTACTOR SHALL SUBMIT BACKFLOW DETAIL TO LOCAL AUTHORITIES FOR APPROVAL BEFORE STARTING CONSTRUCTION.