BID SET FOR PROPOSED

PERIMETER CENTER EAST PARK

50 PERIMETER CENTER EAST

CITY OF DUNWOODY, GEORGIA 30346

PARCEL ID: 18 347 01 027, 064, 018, & 024

UTILITY/GOVERNMENTAL CONTACT LIST:

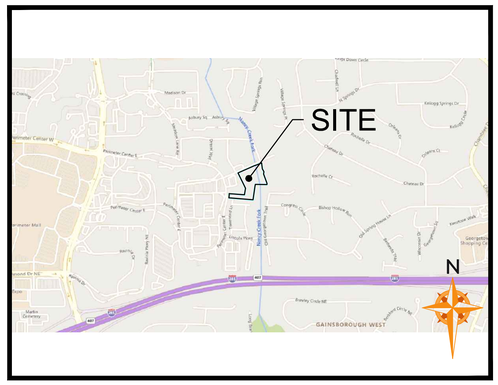
WATER COMPANY:
DEKALB COUNTY WATERSHED MANAGEMENT
774 JORDON LANE, SUITE 200
DECATUR, GA 30034
PHONE: (404) 731-3562
CONTACT: BARON SAUSSY

POWER COMPANY:
GEORGIA POWER
PHONE: (404) 506-6539

SANITARY SEWER COMPANY:
DEKALB COUNTY WATERSHED MANAGEMENT
774 JORDON LANE, SUITE 200
DECATUR, GA 30034
PHONE: (404) 731-3562
CONTACT: BARON SAUSSY

LOCAL ZONING OFFICE
CITY OF DUNWOODY
PLANNING & ZONING DIVISION
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338
PHONE: (678) 382-6700
CONTACT:

FIRE DEPARTMENT
DEKALB COUNTY FIRE AND RESCUE
1950 WEST EXCHANGE PLACE
TUKER, GA 30084
PHONE: (678) 406-7750



SITE LOCATION MAP
NOT TO SCALE

SHEET INDEX

SHEET NO.	SHEET NAME	ISSUED	LATEST REVISION	COMMENT
C-0	COVER SHEET	1/7/2022		
	BOUNDARY AND TOPOGRAPHIC SURVEY	8/21/2020		
DE-1	DEMOLITION PLAN	1/7/2022		
ES-1	PHASE I EROSION SEDIMENTATION AND POLLUTION CONTOL PLAN	1/7/2022		
ES-2	PHASE II EROSION SEDIMENTATION AND POLLUTION CONTOL PLAN	1/7/2022		
ES-3	PHASE III EROSION SEDIMENTATION AND POLLUTION CONTOL PLAN	1/7/2022		
ES-4	EROSION SEDIMENTATION AND POLLUTION CONTOL NOTES	1/7/2022		
ES-5	EROSION SEDIMENTATION AND POLLUTION CONTOL NOTES	1/7/2022		
C-1	SITE PLAN	1/7/2022		
C-2	GRADING PLAN	1/7/2022		
C-3	UTILITY PLAN	1/7/2022		
PR-1	PROFILES AND TABLES	1/7/2022		
D-1A	SITE PLAN DETAILS	1/7/2022		
D-2A - D-2B	GRADING AND DRAINAGE DETAILS	1/7/2022		
D-3A	UTILITY PLAN DETAILS	1/7/2022		
D-4A-D-4C	EROSION SEDIMENTATION AND POLLUTION CONTOL DETAILS	1/7/2022		
L-1	OVERALL LANDSCAPE PLAN	11/1/2021		
L-2	ENLARGED LANDSCAPE PLAN	11/1/2021		
L-3	ENLARGED LAYOUT PLAN	11/1/2021		
L-4	LANDSCAPE DETAILS	11/1/2021		
L-5	ENLARGED PLAYGROUND PLAN	11/1/2021		
L-6	ENLARGED FITNESS STATION PLAN	11/1/2021		
L-7	TRAIL DESIGN PLAN	11/1/2021		
L-8	CITY STANDARD ENTRY SIGN	11/1/2021		
L-9	CITY STANDARD ENTRY SIGN	11/1/2021		
L-10	CITY STANDARD KIOSK	11/1/2021		
L-11	CITY STANDARD KIOSK & ENTRY SIGN	11/1/2021		
SP-1	OVERALL SPLASHPAD PLAN	11/1/2021		
SP-2	SPLASH PAD LAYOUT PLAN	11/1/2021		
SP-3	SPLASH PAD DIMENSION PLAN	11/1/2021		
SP-4	SPLASH PAD CROSS SECTION	11/1/2021		
SP-5	SPLASH PAD PUMP ROOM EQUIPMENT LAYOUT PLAN	11/1/2021		
SP-6	SPLASH PAD FEATURE DETAILS	11/1/2021		
SP-7	SPLASH PAD FEATURE DETAILS	11/1/2021		
SP-8	SPLASH PAD FEATURE DETAILS	11/1/2021		
SP-9	SPLASH PAD DETAILS	11/1/2021		
SP-10	SPLASH PAD DETAILS	11/1/2021		
SP-11	SPLASH PAD DETAILS	11/1/2021		
SP-12	SPLASH PAD DETAILS	11/1/2021		
SP-13	SPLASH PAD PIPING PLAN	11/1/2021		
SP-14	SPLASHPAD SCHEMATIC	11/1/2021		
A-1	SMALL PAVILION PLAN & DETAILS	11/1/2021		
A-2	LARGE PAVILION PLAN & DETAILS	11/1/2021		
A-3	PRECAST RESTROOM PLANS	11/1/2021		
A-4	PRECAST RESTROOM ELEVATIONS	11/1/2021		
A-5	PRECAST RESTROOM SECTIONS	11/1/2021		
A-6	PUMP HOUSE PLANS & DETAILS	11/1/2021		
A-7	PUMP HOUSE ELEVATIONS & SECTIONS	11/1/2021		
E-1	ELECTRICAL NOTES	11/1/2021		
E-2	OVERALL ELECTRICAL SITE PLAN	11/1/2021		
E-3	ELECTRICAL ENLARGED SITE PLANS	11/1/2021		
E-4	PUMP HOUSE POWER & LIGHTING PLANS	11/1/2021		
E-5	ELECTRICAL SCHEDULES & ONE-LINE	11/1/2021		
E-6	ELECTRICAL DETAILS	11/1/2021		

ENGINEER-

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 . www.chacompanies.com

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

DEVELOPER-

CITY OF DUNWOODY PARKS AND REC
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338
678 382-6857 PHONE

NOTES:

1. THE SITEWORK FOR THIS PROJECT SHALL MEET OR EXCEED THE "STANDARD SITEWORK SPECIFICATIONS".
2. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED 1/1/22 No. 037720 PROFESSIONAL ENGINEER CHRISTOPHER L. MANES

GSWCC# 10882
EXP: 05/24/2024

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

Project Developer
CITY OF DUNWOODY
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

SHEET NUMBER
C-0

20-LD-025 MAIN.DWG

USER 6674 - Jan 07, 2022 - 4:27pm
Z:\All Project Data\Projects\2020\20-LD-025 Perimeter Center Park, Dunwoody, GA\LD\Production\Production Drawings\20-LD-025 MAIN.dwg - LAYOUT: C-0 VERSION: -----

NOTES

1. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THIS SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION SUPPLIED AND TO THE SURVEYOR'S BEST KNOWLEDGE ARE APPROXIMATELY AS SHOWN. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

2. I HAVE EXAMINED THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR DEKALB COUNTY, GEORGIA AND INCORPORATED AREAS, COMMUNITY PANEL NUMBER 13089C0012J, PANEL 12 OF 201, EFFECTIVE DATE MAY 16, 2013 AND FOUND A PORTION OF THE PROPERTY SHOWN HEREON TO FALL WITHIN A DESIGNATED FLOOD ZONE "A" (AREAS OF 100 YEAR FLOOD).

3. THE ORTHOMETRIC HEIGHTS (ELEVATIONS AND CONTOURS) SHOWN HEREON WERE DETERMINED BY GPS OBSERVATIONS AND WERE ADJUSTED BY PLANNERS AND ENGINEERS COLLABORATIVE IN SEPTEMBER 2017. NORTH AMERICAN DATUM OF 1983 (NAD83), NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEORGIA WEST ZONE STATE PLANE COORDINATES.

4. THE TERM "CERTIFICATION" RELATING TO PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES SHALL MEAN A SIGNED STATEMENT BASED UPON FACTS AND KNOWLEDGE KNOWN TO THE REGISTRANT AND IS NOT A GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED.

5. THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE INSPECTION REPORT. EASEMENTS OR OTHER ENCUMBRANCES MAY EXIST ON PUBLIC RECORD BUT NOT BE SHOWN HEREON.

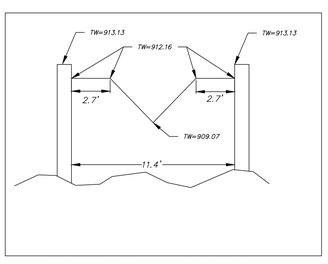
6. THE UNDERGROUND UTILITIES SHOWN HEREON WERE DETERMINED BY LOCATING PAINT MARKINGS CREATED BY OTHERS.

7. NO ZONING INFORMATION PROVIDED FOR BUILDING SETBACKS.

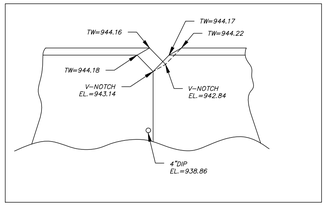
REFERENCES

1. ALTA/ACSM LAND TITLE SURVEY FOR METLIFE REAL ESTATE INVESTMENTS, DATED 06/15/00, LAST UPDATED 05/13/04, PREPARED BY WATTS & BROWNING ENGINEERS, INC, SIGNED AND SEALED BY A. HAMMOND, PROFESSIONAL LAND SURVEYOR IN THE STATE OF GEORGIA, LICENSE NUMBER 2554.

2. FINAL PLAT FOR TOWNSEND AT PERIMETER, PREPARED BY PLANNERS & ENGINEERS COLLABORATIVE, DATED DECEMBER 29, 2016, RECORDED IN PLAT BOOK 253 PAGE 97 AT SUPERIOR COURT OF DEKALB COUNTY, GEORGIA, SIGNED AND SEALED BY REGISTERED LAND SURVEYOR IN THE STATE OF GEORGIA, JONATHAN N. HOWARD, PROFESSIONAL LICENSE NUMBER 3008.



DETAIL 1 - N.T.S.



DETAIL 2 - N.T.S.

LEGAL DESCRIPTION – TRACT 1

ALL THAT TRACT OR PARCEL OF LAND lying and being in Land Lot 347 of the 18th District of Dekalb County, City of Dunwoody, Georgia, and being more particularly described as follows:

To find the TRUE POINT OF BEGINNING, COMMENCE at the intersection of the easterly land lot line of Land Lot 347 and with the northwesterly right of way of U.S. Interstate Highway 285 and proceed northerly 1266 feet more or less along said land lot line of Land Lot 347 to a 1 inch crimp top pipe found, said point being the TRUE POINT OF BEGINNING;

With the TRUE POINT OF BEGINNING thus established, thence leaving said easterly land lot line of Land Lot 347 and proceed North 85 degrees 28 minutes 55 seconds West, a distance of 421.14 feet to an iron pin set on the easterly right of way of Perimeter Center East (variable right of way); thence along said easterly right of way of Perimeter Center East 73.48 feet along an arc of a curve to the left, said curve having a radius of 659.62 feet and a chord bearing and distance of North 04 degrees 13 minutes 17 seconds East 73.44 feet to an iron pin set; thence leaving said easterly right of way of Perimeter Center East and procced along the common property line between City of Dunwoody and S & F Activities, LLC the following courses and distances: South 85 degrees 37 minutes 45 seconds East, a distance of 266.62 feet to a 1/2 inch rebar found; North 08 degrees 17 minutes 41 seconds East, a distance of 115.72 feet a 1/2 inch rebar found; North 25 degrees 40 minutes 27 seconds West, a distance of 57.22 feet an iron pin set; thence leaving said common property line between City of Dunwoody and S & F Activities, LLC and proceed common property line between City of Dunwoody South 85 degrees 53 minutes 17 seconds East, a distance of 193.26 feet to an iron pin with cap found; thence along common property line between City of Dunwoody and Dickie L. Slack, etal South 08 degrees 36 minutes 39 seconds West, a distance of 241.03 feet to a 1 inch crimp top pipe found, said pipe being the TRUE POINT OF BEGINNING.

Containing 1.348 acres.

LEGAL DESCRIPTION – TRACT 2

ALL THAT TRACT OR PARCEL OF LAND lying and being in Land Lot 347 of the 18th District of Dekalb County, City of Dunwoody, Georgia, and being more particularly described as follows:

To find the TRUE POINT OF BEGINNING, COMMENCE at the intersection of the easterly land lot line of Land Lot 347 and with the northwesterly right of way of U.S. Interstate Highway 285 and proceed northerly 1266 feet more or less along said land lot line of Land Lot 347 to a 1 inch crimp top pipe found; thence North 08 degrees 36 minutes 39 seconds East, a distance of 241.03 feet to an iron pin with cap found, said point being the TRUE POINT OF BEGINNING;

With the TRUE POINT OF BEGINNING thus established, thence leaving said easterly land lot line of Land Lot 347 and proceed North 85 degrees 53 minutes 17 seconds West, a distance of 193.26 feet to an iron pin set; thence along the common property line between City of Dunwoody and S & F Activities, LLC North 25 degrees 40 minutes 27 seconds West, a distance of 240.68 feet to a 1/2 inch rebar found on the southerly right of way of Perimeter Center East Extension (variable right of way); thence along said southerly right of way of Perimeter Center East Extension the following courses and distances: North 66 degrees 18 minutes 42 seconds East, a distance of 316.12 feet to an iron pin with cap found; North 71 degrees 52 minutes 56 seconds East, a distance of 50.25 feet to an iron pin with cap found; North 66 degrees 10 minutes 20 seconds East, a distance of 80.96 feet to a 1/2 inch rebar found; thence leaving said southerly right of way of Perimeter Center East Extension and proceed along the common property line between City of Dunwoody and BBK Coke Data Center, LLC the following courses and distances: South 07 degrees 36 minutes 35 seconds East, a distance of 104.53 feet to a small metal fence post found; South 27 degrees 19 minutes 10 seconds East, a distance of 55.94 feet to a point; South 06 degrees 13 minutes 45 seconds West, a distance of 40.76 feet to a point; South 20 degrees 16 minutes 14 seconds East, a distance of 173.37 feet to a point; thence along common property line between City of Dunwoody and Dickie L. Slack, etal the following courses and distances: South 01 degrees 14 minutes 16 seconds West, a distance of 21.30 feet to a point; thence North 89 degrees 27 minutes 23 seconds West, a distance of 204.39 feet to an iron pin set; thence South 08 degrees 36 minutes 39 seconds West, a distance of 30.64 feet to an iron pin with cap found, said pin being the TRUE POINT OF BEGINNING.

Containing 2.989 acres, more or less.

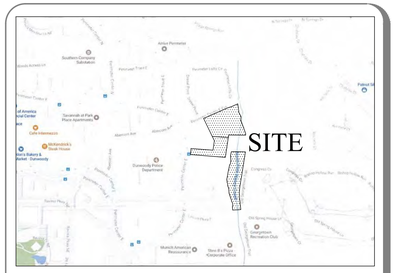
LEGAL DESCRIPTION – TRACT 3

ALL THAT TRACT OR PARCEL OF LAND lying and being in Land Lot 346 of the 18th District of Dekalb County, City of Dunwoody, Georgia, and being more particularly described as follows:

To find the TRUE POINT OF BEGINNING, COMMENCE at the intersection of the easterly land lot line of Land Lot 347 and with the northwesterly right of way of U.S. Interstate Highway 285 and proceed northerly 1266 feet more or less along said land lot line of Land Lot 347 to a 1 inch crimp top pipe found; thence North 08 degrees 36 minutes 39 seconds East, a distance of 241.03 feet to an iron pin with cap found; thence leaving said easterly land lot line of Land Lot 347 and proceed along tie–in line North 46 degrees 48 minutes 33 seconds East, a distance of 99.77 feet to a point, said point being the TRUE POINT OF BEGINNING;

With the TRUE POINT OF BEGINNING thus established, thence along common property line between City of Dunwoody and Dickie L. Slack, etal South 89 degrees –6 minutes 50 seconds East, a distance of 169.60 feet to a point on the westerly right of way of Old Georgetown Center (60 foot right of way); thence along said westerly right of way of Old Georgetown Center the following courses and distances: South 09 degrees 18 minutes 12 seconds West, a distance of 102.89 feet to a point; South 08 degrees 44 minutes 41 seconds West, a distance of 100.00 feet to a point; South 09 degrees 07 minutes 34 seconds West, a distance of 100.00 feet to a point; thence South 09 degrees 10 minutes 12 seconds West, a distance of 100.00 feet to the point; 93.14 feet along an arc of a curve to the left, said curve having a radius of 487.88 feet and a chord bearing and distance of South 05 degrees 41 minutes 45 seconds West 93.00 feet to a point; 92.13 feet along an arc of a curve to the left, said curve having a radius of 495.40 feet and a chord bearing and distance of South 02 degrees 40 minutes 58 seconds East 92.00 feet to a point; South 06 degrees 49 minutes 16 seconds East, a distance of 113.59 feet to a 1/2 inch rebar found; thence leaving said westerly right of way line of Old Georgetown Center and proceed along the northerly right of way of Lincoln Parkway East (60 foot right of way) South 86 degrees 21 minutes 28 seconds West, a distance of 98.31 feet to a point; thence leaving said northerly right of way of Lincoln Parkway North 05 degrees 29 minutes 45 seconds West, a distance of 35.60 feet to a point; 6.04 feet along an arc of curve to the right, having a radius of 25.00 feet and chord bearing of North 01 degrees 25 minutes 39 seconds East a distance of 6.03 feet to a point; thence North 08 degrees 21 minutes 03 seconds East, a distance of 34.08 feet to a point; thence North 22 degrees 44 minutes 20 seconds West, a distance of 20.24 feet to a point; thence North 33 degrees 48 minutes 28 seconds West, a distance of 7.84 feet to a point ;15.52 feet along an arc of curve to the right, having a radius of 25.00 feet and chord bearing of North 16 degrees 01 minutes 08 seconds West a distance of 15.28 feet to a point; thence North 01 degrees 46 minutes 13 seconds East, a distance of 4.52 feet to a point; thence North 20 degrees 49 minutes 49 seconds West, a distance of 36.32 feet to a point; thence North 17 degrees 52 minutes 28 seconds West, a distance of 50.19 feet to a point; 5.89 feet along an arc of curve to the right, having a radius of 25.00 feet and chord bearing of North 11 degrees 07 minutes 21 seconds West a distance of 5.88 feet to a point; thence North 04 degrees 22 minutes 14 seconds West, a distance of 52.39 feet to a point; thence North 18 degrees 40 minutes 24 seconds West, a distance of 34.60 feet to a point; thence North 05 degrees 15 minutes 26 seconds West, a distance of 30.90 feet to a point; thence North 31 degrees 30 minutes 37 seconds West, a distance of 5.07 feet to a point; 12.51 feet along an arc of curve to the right, having a radius of 25.00 feet and chord bearing of North 17 degrees 10 minutes 33 seconds West a distance of 12.38 feet to a point; thence North 02 degrees 50 minutes 29 seconds West, a distance of 12.44 feet to a point; thence North 09 degrees 09 minutes 37 seconds West, a distance of 11.47 feet to a point; 8.40 feet along an arc of curve to the right, having a radius of 25.00 feet and chord bearing of North 00 degrees 27 minutes 42 seconds East a distance of 8.36 feet to a point; thence North 10 degrees 05 minutes 01 seconds East, a distance of 93.74 feet to a point; thence North 11 degrees 41 minutes 15 seconds East, a distance of 76.35 feet to a point; 8.25 feet along an arc of curve to the right, having a radius of 25.00 feet and chord bearing of North 21 degrees 08 minutes 20 seconds East a distance of 8.21 feet to a point; thence North 30 degrees 35 minutes 24 seconds East, a distance of 17.47 feet to a point; thence North 07 degrees 26 minutes 16 seconds East, a distance of 36.92 feet to a point; thence North 04 degrees 46 minutes 55 seconds West, a distance of 53.58 feet to a point; 7.30 feet along an arc of curve to the right, having a radius of 25.00 feet and chord bearing of North 03 degrees 35 minutes 08 seconds East a distance of 7.28 feet to a point; thence North 11 degrees 57 minutes 11 seconds East, a distance of 46.85 feet to a point, said point being the TRUE POINT OF BEGINNING.

Containing 2.296 acres, more or less.



SITE MAP (NTS)

The field data upon which this map or plat is based has a closure precision of one foot in 73,087 feet and an angular error of 00° 00' 01" per angle point and was adjusted using the compass adjustment rule.

This map or plat has been calculated for closure and is found to be accurate to within one foot in 242,709 feet.

EQUIPMENT USED:

ANGULAR: TOPCON TOTAL STATION

LINEAR: TOPCON TOTAL STATION

As required by subsection (d) of O.C.G.A. Section 15–6–67, this plat has been prepared by a land surveyor and approved by all applicable local jurisdictions for recording as evidenced by approval certificates, signatures, stamps, or statements hereon. Such approvals or affirmations should be confirmed with the appropriate governmental bodies by any purchaser or user of this plat as to intended used of any parcel. Furthermore, the undersigned land surveyor certifies that this plat complies with the minimum technical standards for property surveys in Georgia as set forth in the rules and regulations of the Georgia Board of Registration of Professional Engineers and Land Surveyors and as set forth in O.C.G.A. Section 15–6–67.

Date of Map or Plat:

_____

Date

SHEET 1 OF 4

PLANNERS AND ENGINEERS COLLABORATIVE

"WE PROVIDE SOLUTIONS"

■SITE PLANNING ■LANDSCAPE ARCHITECTURE
■CIVIL ENGINEERING ■LAND SURVEYING

350 RESEARCH COURT PEACHTREE CORNERS, GEORGIA 30092
(770)451-2741 ■ WWW.PECATL.COM

REV	DATE	DESCRIPTION	BY
5	–	–	–
4	–	–	–
3	–	–	–
2	–	–	–
1	08/21/20	REVISED DRAWING	MS

BOUNDARY AND TOPOGRAPHIC SURVEY
FOR
THE CITY OF DUNWOODY

LAND LOT(S) 347
DISTRICT 18th

CITY OF DUNWOODY

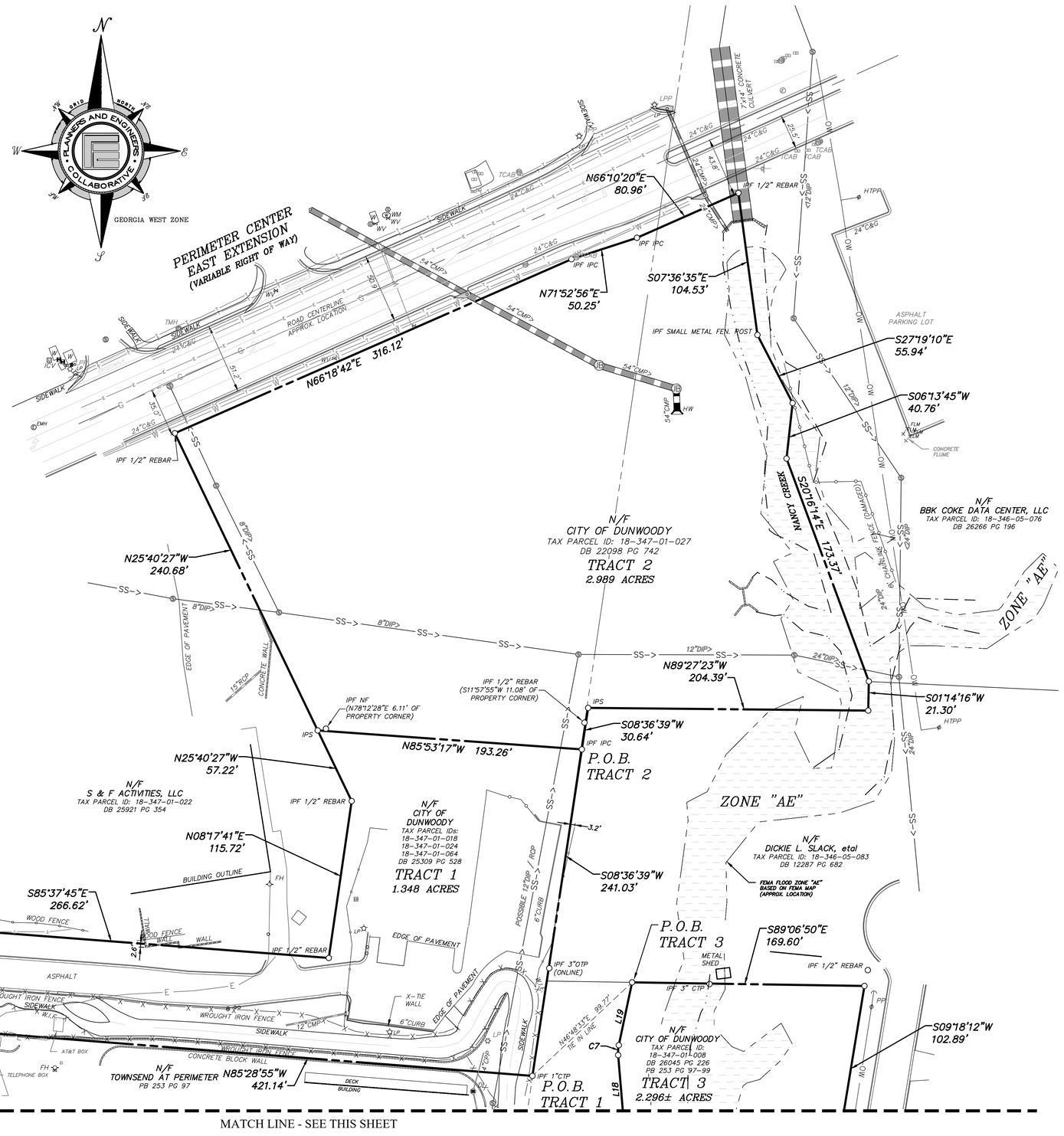
DEKALB COUNTY
GEORGIA

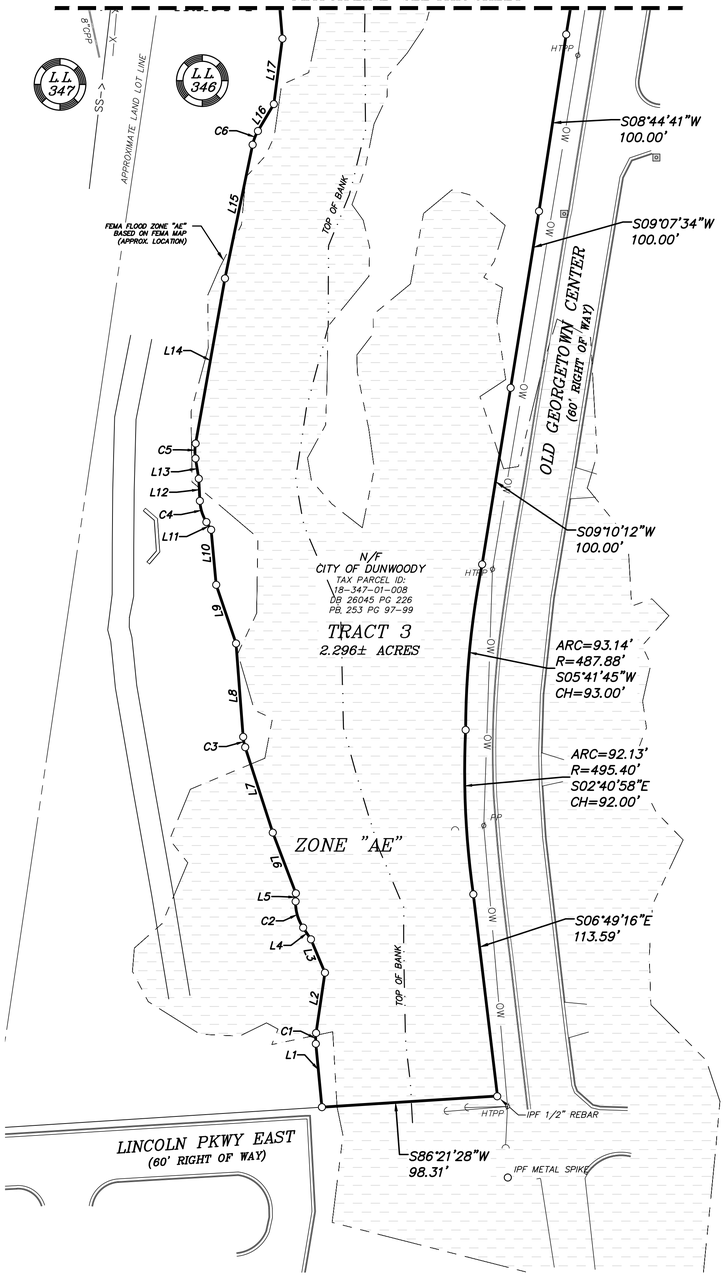
DRAWN BY: PEC
CHECKED BY: MCS
FILE NO.: 17203.00
DATE: 09/25/2017
SCALE: 1" = 40'

0 20 40 80

CURVE DATA				
Curve #	ARC	Radius	CHORD	CHORD BEARING
C1	6.04'	25.00'	6.03'	S01°25'39"W
C2	15.52'	25.00'	15.28'	S16°01'08"E
C3	5.89'	25.00'	5.88'	S11°07'21"E
C4	12.51'	25.00'	12.38'	S17°10'33"E
C5	8.40'	25.00'	8.36'	S00°27'42"W
C6	8.25'	25.00'	8.21'	S21°08'20"W
C7	7.30'	25.00'	7.28'	S03°35'08"W

Property Line Table		
Line #	Length	Direction
L1	35.60'	N5° 29' 45"W
L2	34.08'	N8° 21' 03"E
L3	20.24'	N22° 44' 20"W
L4	7.84'	N33° 48' 28"W
L5	4.52'	N1° 46' 13"E
L6	36.32'	N20° 49' 49"W
L7	50.19'	N17° 52' 28"W
L8	52.39'	N4° 22' 14"W
L9	34.60'	N18° 40' 24"W
L10	30.90'	N5° 15' 26"W
L11	5.07'	N31° 30' 37"W
L12	12.44'	N2° 50' 29"W
L13	11.47'	N9° 09' 37"W
L14	93.74'	N10° 05' 01"E
L15	76.35'	N11° 41' 15"E
L16	17.47'	N30° 35' 24"E
L17	36.92'	N7° 26' 16"E
L18	53.58'	N4° 46' 55"W
L19	46.85'	N11° 57' 11"E





SHEET 2 OF 4

REV	DATE	DESCRIPTION	BY
5	–	–	–
4	–	–	–
3	–	–	–
2	–	–	–
1	08/21/20	REVISED DRAWING	MS

PLANNERS AND ENGINEERS COLLABORATIVE
"WE PROVIDE SOLUTIONS"
SITE PLANNING ■ LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING ■ LAND SURVEYING
350 RESEARCH COURT PEACHTREE CORNERS, GEORGIA 30092
(770)451-2741 ■ WWW.PECATL.COM

BOUNDARY AND TOPOGRAPHIC SURVEY

FOR

THE CITY OF DUNWOODY

LAND LOT(S) 347
DISTRICT 18th

CITY OF DUNWOODY

DEKALB COUNTY
GEORGIA

DRAWN BY: PEC
CHECKED BY: MCS
FILE NO.: 17203.00
DATE: 09/25/2017
SCALE: 1" = 40'

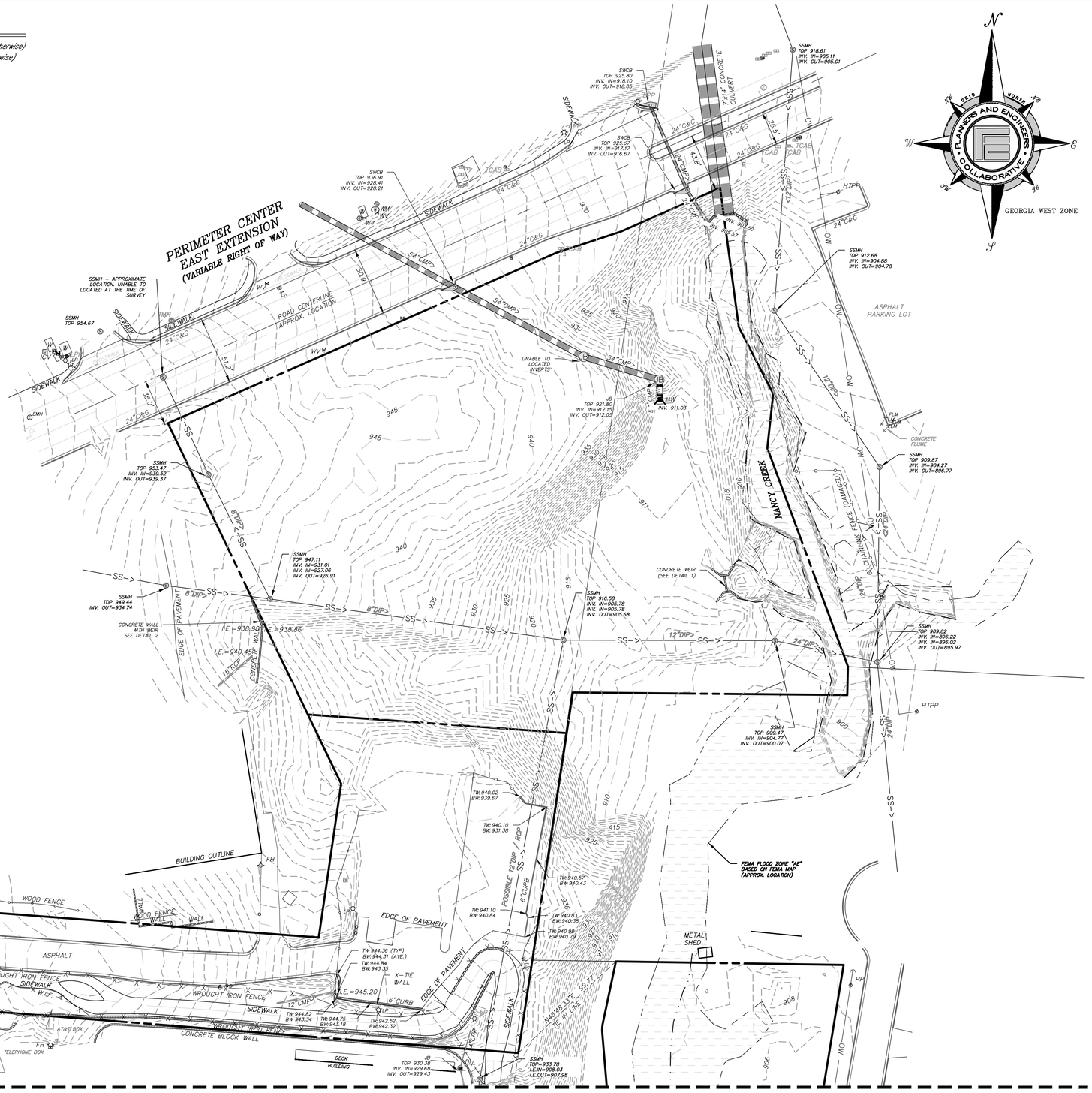
0 20 40 80

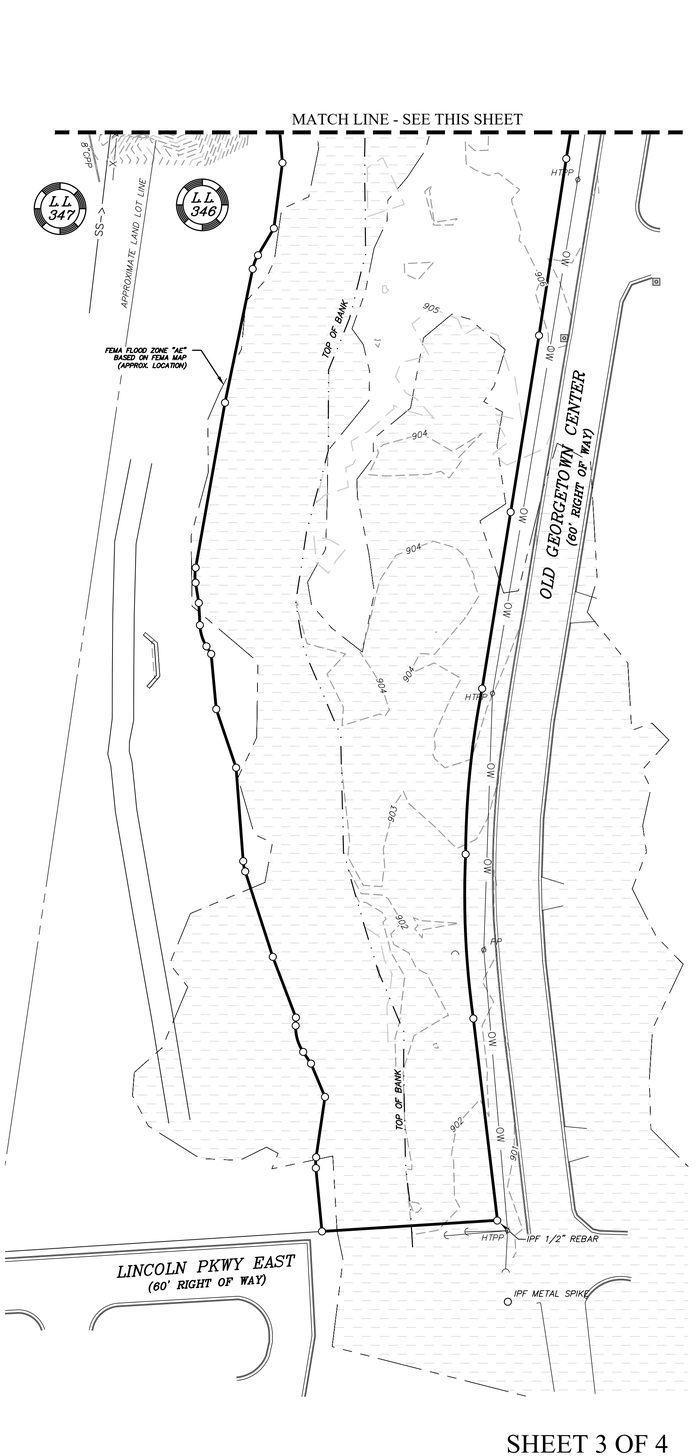
LEGEND

- IRON PIN FOUND (#4 Re-Rod unless noted otherwise)
- IRON PIN SET (#4 Re-Rod unless noted otherwise)
- IRON PIN WITH CAP FOUND
- POINT
- OPEN TOP PIPE FOUND
- CRIMP TOP PIPE FOUND
- ANGLE IRON
- PK NAIL FOUND
- PK NAIL SET
- CONCRETE MONUMENT FOUND
- RIGHT OF WAY MONUMENT FOUND
- UTILITY POLE (CARRIES MULTIPLE UTILITIES)
- POWER POLE (WOOD)
- SERVICE POLE W/ LIGHT
- POWER POLE W/ GUY WIRE
- OVERHEAD WIRES
- ELECTRIC METER
- WATER VALVE
- FIRE HYDRANT
- WATER METER
- GAS METER
- STORM SEWER LINE
- SINGLE WING CATCH BASIN
- DOUBLE WING CATCH BASIN
- CURB INLET
- DROP INLET
- JUNCTION BOX
- SANITARY SEWER LINE
- SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- TELEPHONE BOX
- TELEPHONE MANHOLE
- MONITORING WELL
- FIBER OPTIC MARKER
- UNDERGROUND WATER LINE
- UNDERGROUND GAS LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND CABLE LINE
- UNDERGROUND FIBER OPTIC LINE

ABBREVIATIONS

APPROX.	APPROXIMATE
BM	BENCH MARK
C&G	CURB & GUTTER
CMP	CORRUGATED METAL PIPE
CL	CENTERLINE
DB	DEED BOOK
DIP	DUCTILE IRON PIPE
DIR.	DIRECTION
INV.	INVERT
P.O.B.	POINT OF BEGINNING
SWCB	SINGLE WING CATCH BASIN
DWCB	DOUBLE WING CATCH BASIN
PB	PLAT BOOK
N/F	NOW OR FORMALLY
RCP	REINFORCED CONCRETE PIPE
LP	LIGHT POLE
LPP	LAMP POST





SHEET 3 OF 4

PLANNERS AND ENGINEERS COLLABORATIVE
"WE PROVIDE SOLUTIONS"
■ SITE PLANNING ■ LANDSCAPE ARCHITECTURE
■ CIVIL ENGINEERING ■ LAND SURVEYING
350 RESEARCH COURT PEACHTREE CORNERS, GEORGIA 30092
(770)451-2741 ■ WWW.PECATL.COM

REV	DATE	DESCRIPTION	BY
5	–	–	–
4	–	–	–
3	–	–	–
2	–	–	–
1	08/21/20	REVISED DRAWING	MS

BOUNDARY AND TOPOGRAPHIC SURVEY

FOR

THE CITY OF DUNWOODY

LAND LOT(S) 347
DISTRICT 18th

CITY OF DUNWOODY

DEKALB COUNTY
GEORGIA

DRAWN BY: PEC
CHECKED BY: MCS
FILE NO.: 17203.00
DATE: 09/25/2017
SCALE: 1" = 40'

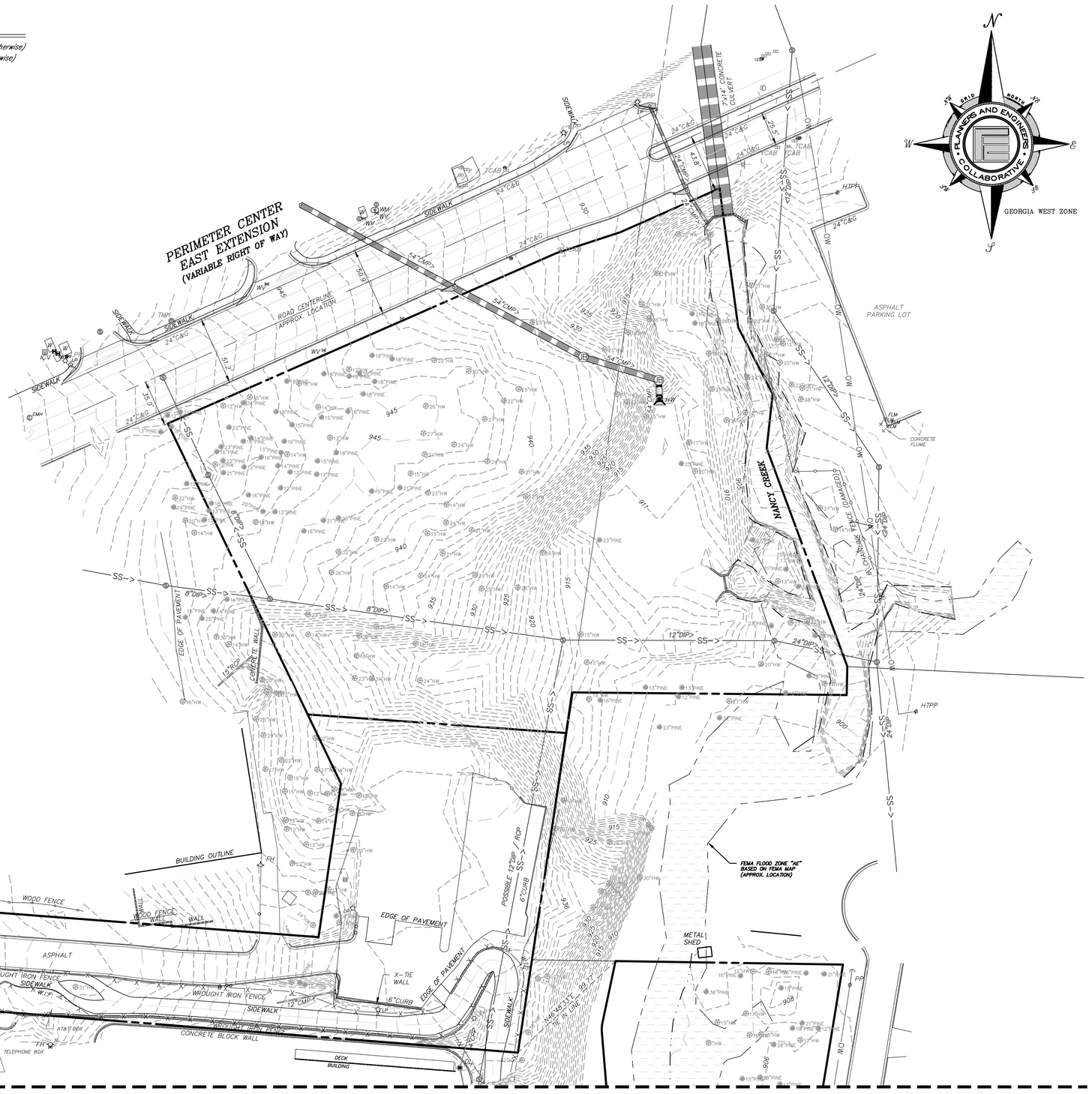
0 20 40 80

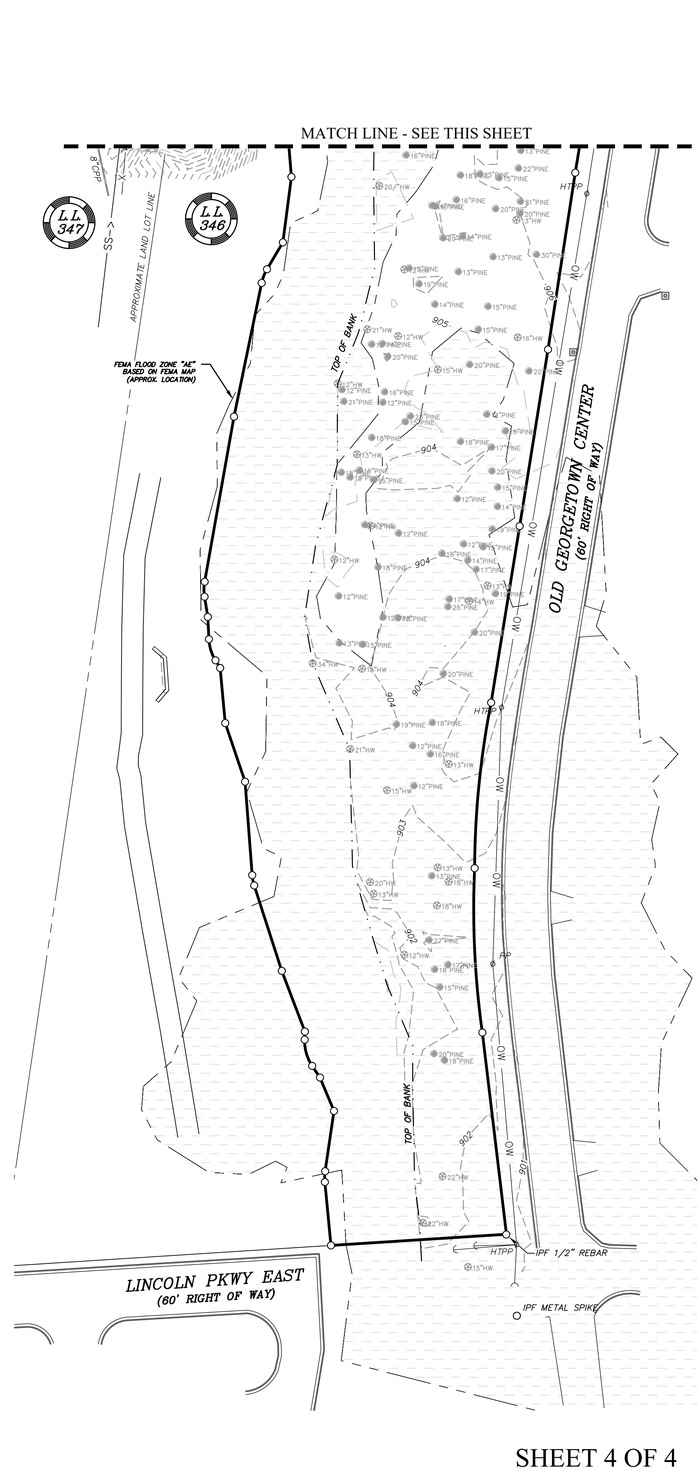
LEGEND

- IPF — IRON PIN FOUND (#4 Re-Rod unless noted otherwise)
- IPS — IRON PIN SET (#4 Re-Rod unless noted otherwise)
- IPC — IRON PIN WITH CAP FOUND
- POINT
- OTP — OPEN TOP PIPE FOUND
- CTP — CRIMP TOP PIPE FOUND
- ANGLE IRON
- PKF — PK NAIL FOUND
- PKS — PK NAIL SET
- CMF — CONCRETE MONUMENT FOUND
- RWM — RIGHT OF WAY MONUMENT FOUND
- UTILITY POLE (CARRIES MULTIPLE UTILITIES)
- POWER POLE (WOOD)
- SERVICE POLE W/ LIGHT
- POWER POLE W/ GUY WIRE
- —OW— OVERHEAD WIRES
- ELECTRIC METER
- WATER VALVE
- FH — FIRE HYDRANT
- WM — WATER METER
- GM — GAS METER
- STORM SEWER LINE
- SINGLE WING CATCH BASIN
- DOUBLE WING CATCH BASIN
- CURB INLET
- DROP INLET
- JB — JUNCTION BOX
- —S— SANITARY SEWER LINE
- SCO — SANITARY SEWER CLEANOUT
- S — SANITARY SEWER MANHOLE
- T — TELEPHONE BOX
- T — TELEPHONE MANHOLE
- MW — MONITORING WELL
- FO — FIBER OPTIC MARKER
- —W— UNDERGROUND WATER LINE
- —G— UNDERGROUND GAS LINE
- —E— UNDERGROUND ELECTRIC LINE
- —T— UNDERGROUND TELEPHONE LINE
- —C— UNDERGROUND CABLE LINE
- —FO— UNDERGROUND FIBER OPTIC LINE

ABBREVIATIONS

APPROX.	APPROXIMATE
BM	BENCH MARK
C&G	CURB & GUTTER
CMP	CORRUGATED METAL PIPE
CL	CENTERLINE
DB	DEED BOOK
DIP	DUCTILE IRON PIPE
DIR.	DIRECTION
INV.	INVERT
P.O.B.	POINT OF BEGINNING
SWCB	SINGLE WING CATCH BASIN
DWCB	DOUBLE WING CATCH BASIN
PB	PLAT BOOK
N/F	NOW OR FORMALLY
RCP	REINFORCED CONCRETE PIPE
LP	LIGHT POLE
LPP	LAMP POST





PLANNERS AND ENGINEERS COLLABORATIVE
"WE PROVIDE SOLUTIONS"
■SITE PLANNING ■LANDSCAPE ARCHITECTURE
■CIVIL ENGINEERING ■LAND SURVEYING
350 RESEARCH COURT PEACHTREE CORNERS, GEORGIA 30092
(770)451-2741 ■ WWW.PECATL.COM

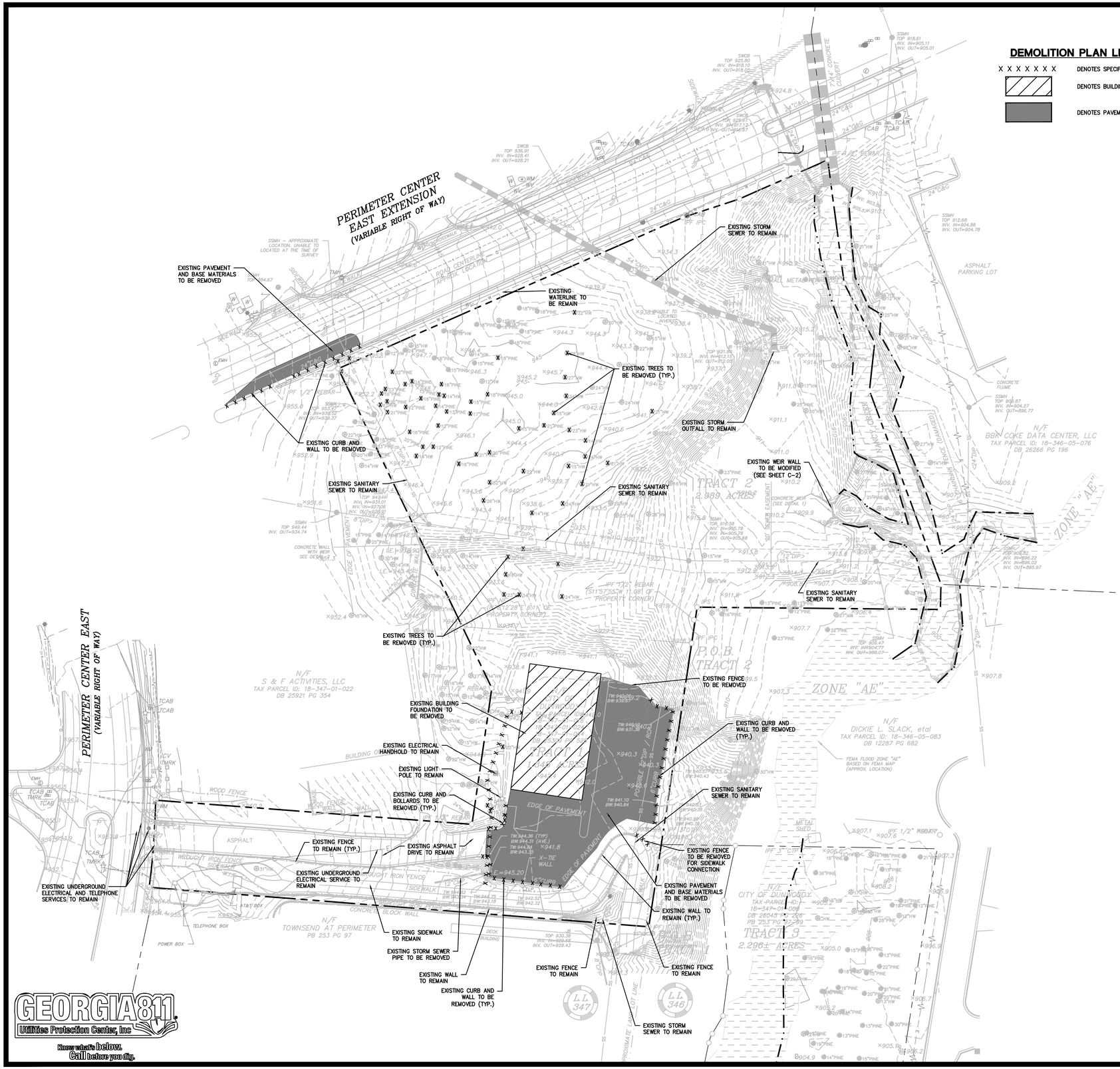
REV	DATE	DESCRIPTION	BY
5	–	–	–
4	–	–	–
3	–	–	–
2	–	–	–
1	08/21/20	REVISED DRAWING	MS

BOUNDARY AND TOPOGRAPHIC SURVEY
FOR
THE CITY OF DUNWOODY

LAND LOT(S) 347
DISTRICT 18th
CITY OF DUNWOODY
DEKALB COUNTY GEORGIA

DRAWN BY: PEC
CHECKED BY: MCS
FILE NO.: 17203.00
DATE: 09/25/2017
SCALE: 1" = 40'

0 20 40 80

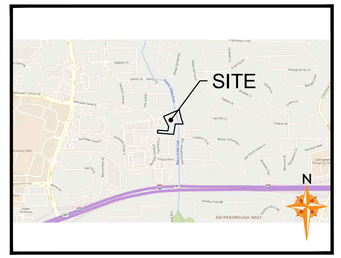


DEMOLITION PLAN LEGEND

X X X X X X X — DENOTES SPECIFIC DEMOLITION ITEMS

DENOTES BUILDING DEMOLITION

DENOTES PAVEMENT DEMOLITION



LOCATION MAP
NOT TO SCALE

DEMOLITION PLAN NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING OF THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
3. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
4. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.
5. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.
6. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION, AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.
7. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., TO THE BEST PRACTICES AND AS APPROVED BY THE OWNER'S CONSTRUCTION MANAGER.
8. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
9. CONTRACTOR MAY LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS; BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
10. THE CONTRACTOR SHALL COORDINATE WATERMAIN WORK WITH THE FIRE DEPT. AND THE COUNTY UTILITY DEPARTMENT TO PLAN PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATERMAIN SHUT OFFS WITH THE COUNTY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATERMAIN SHUT OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND AS PART OF THE BASE BID.
11. DAMAGE TO ANY EXISTING CONDITIONS TO REMAIN WILL BE REPLACED/REPAIRED AT CONTRACTOR'S EXPENSE.
12. CONTRACTOR TO REPLACE/REPAIR ASPHALT AS NEEDED AFTER DEMOLITION, ABANDONMENT, OR RELOCATION OF PAVING, UTILITIES, STRUCTURES, ETC. AS PART OF THE BASE BID.
13. NO EQUIPMENT SHALL BE STORED WITH IN ANY RIGHT-OF-WAY WITH OUT PERMISSION OF RIGHT-OF-WAY OWNER.

NOTE:
PRIOR TO TREE REMOVAL, THE CONTRACTOR MUST FLAG ALL TREES TO BE REMOVED ON THIS PLAN AND STAKE THE CENTERLINE OF ALL SIDEWALKS AND STRUCTURES. CONTRACTOR MUST THEN WALK THE SITE WITH THE CITY ARBORIST TO VERIFY TREES TO BE REMOVED AND/OR MODIFY STRUCTURE LOCATIONS TO SAVE TREES IF POSSIBLE.

N

DEMOLITION PLAN

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

GEORGIA811
Utilities Protection Center, Inc
Know what's below.
Call before you dig.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED 1/1/22 No. 037720 PROFESSIONAL ENGINEER CHRISTOPHER L. MANES

GSWCC# 10882
EXP: 05/24/2024

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY DMN
CHECKED BY CLM
DATE: 01/07/2022
SCALE: 1"= 40'
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
DE-1

20-LD-025 MAIN.DWG

USER 6674 – Jan 07, 2022 – 4:27pm
Z:\All Project Data\Projects\2020\20-LD-025 Perimeter Center Park, Dunwoody, GA\LD\Production\Production Drawings\20-LD-025 MAIN.dwg – LAYOUT: DE-1 VERSION: ----

CONSERVATION COMMISSION NOTES

(20) EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

(19) THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.

ALL EROSION & SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ONSITE INSPECTION BY THE ISSUING AUTHORITY.

(21) ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

MULCHING SCHEDULE (Ds1) (S1)

MULCHING MATERIAL	RATE/ACRE
DRY STRAW OR HAY	2.5 TONS (6 TO 8" DEEP)
WOOD WASTE, CHIPS, SAWDUST, OR BARK	6 TO 9 TONS (2 TO 3" DEEP)

TEMPORARY SEEDING SCHEDULE (Ds2) (S1)

SPECIES (MIXTURE OF)	RATE/ACRE	PLANTING DATES
SUDAN (SWEET OR TIFT)	60 LBS	APRIL1-SEPT 1
ANNUAL RYE GRASS	40 LBS	AUG 1-APRIL 15

NOTE: APPLY LIME AT THE RATE OF 1 TON/ACRE
REFER TO D-4A FOR FERTILIZER REQUIREMENTS

PERMANENT SEEDING SCHEDULE (Ds3) (S1)

SPECIES	RATE/ACRE	PLANTING DATES
COMMON BERMUDA (HULLED) (CYNODON DACTYLON)	10 LBS	MARCH 1-JULY 1
COMMON BERMUDA (UNHULLED) (CYNODON DACTYLON)	10 LBS	OCT 1-MAR 1
BAHIA PENSACOLA (PASPALUM NOTATUM)	60 LBS	JAN 1-DEC 31

NOTE: APPLY LIME AT THE RATE OF 1 TON/ACRE.
REFER TO D-4A FOR FERTILIZER REQUIREMENTS

(06) ACREAGE SUMMARY (IN ACRES)

SITE AREA	6.633 AC±
ON-SITE DISTURBED AREA	3.54 AC±
OFF-SITE DISTURBED AREA	0.36 AC±
TOTAL DISTURBED AREA (MUST MATCH NOI)	3.90 AC±
IMPERVIOUS AREA AT COMPLETION	0.99 AC±
PERVIOUS AREA AT COMPLETION	2.91 AC±

(60) TEMPORARY SEDIMENT TRAP "1" CALCULATIONS

DRAINAGE AREA = 0.29 AC
DISTURBED AREA = 0.29 AC
SEDIMENT STORAGE REQUIRED = 20 CY (67 CY/AC.)
SEDIMENT STORAGE PROVIDED = 46 CY
CLEANOUT VOLUME REQUIRED = 7 CY (22 CY/AC.)
CLEANOUT VOLUME PROVIDED = 15 CY
CLEANOUT VOLUME ELEVATION = 939.00

(60) TEMPORARY SEDIMENT TRAP "2" CALCULATIONS

DRAINAGE AREA = 1.24 AC
DISTURBED AREA = 0.57 AC
SEDIMENT STORAGE REQUIRED = 83 CY (67 CY/AC.)
SEDIMENT STORAGE PROVIDED = 102 CY
CLEANOUT VOLUME REQUIRED = 28 CY (22 CY/AC.)
CLEANOUT VOLUME PROVIDED = 34 CY
CLEANOUT VOLUME ELEVATION = 935.75

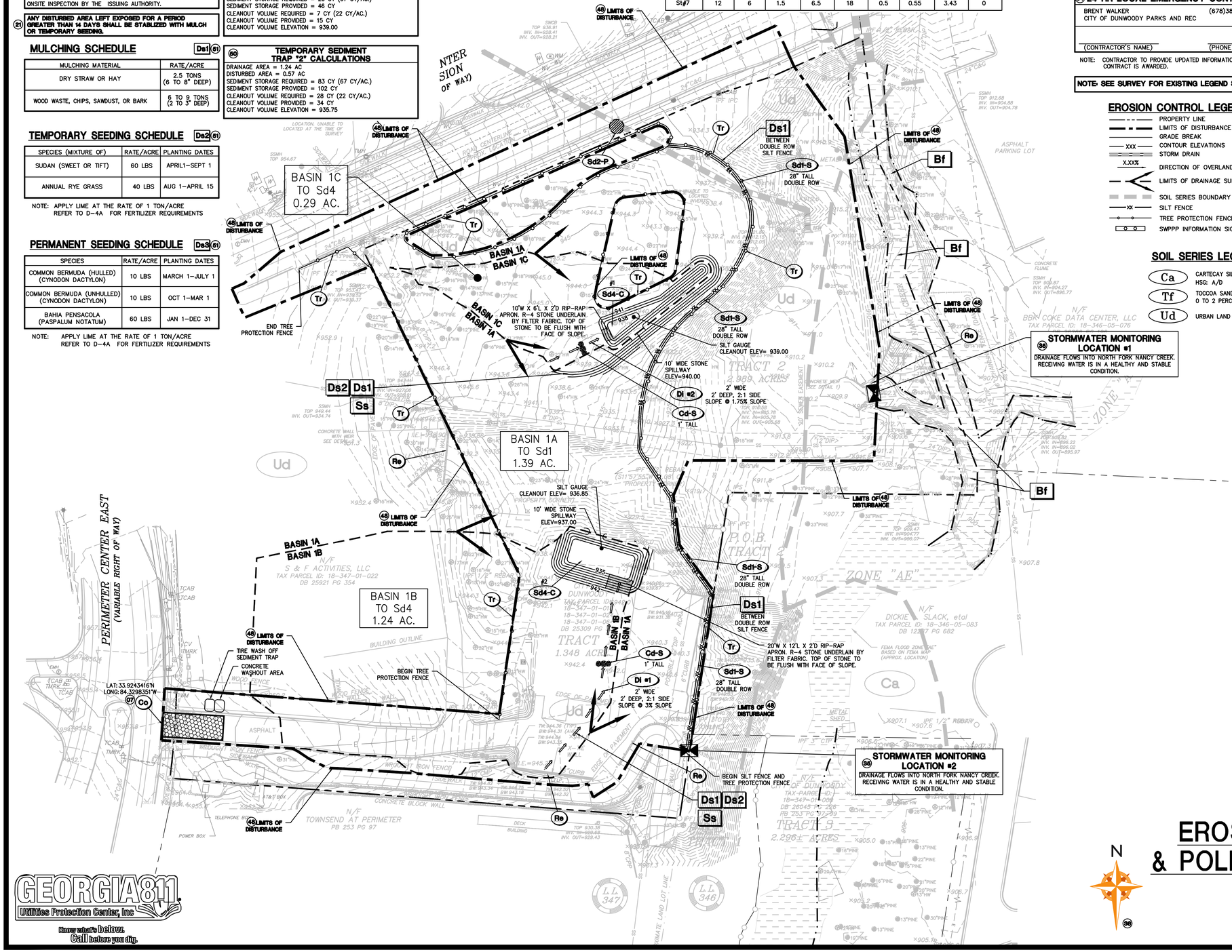
(40) TEMPORARY SILT FENCE CALCULATIONS (Sd1)

DRAINAGE AREA = 1.39 AC
DISTURBED AREA = 1.39 AC
SILT FENCE REQUIRED = 556 LF (100 LF/0.25 AC)
SILT FENCE PROVIDED = 594 LF

NOTE:
SILT FENCE IS BEING USED TO CONTAIN SEDIMENT FOR THE 1.39 ACRES THAT ARE DOWNSTREAM OF THE SEDIMENT TRAPS. THIS AREA IS EITHER DOWN GRADIENT OF THE PRIMARY SEDIMENT CONTROL MEASURE OR DRAINS AWAY FROM SAID FEATURES; THUS, IT CAN'T BE ROUTED THROUGH SAID FEATURES.

STORM DRAIN OUTLET PROTECTION

NUMBER	AVG. STONE SIZE (d50) (inches)	APRON LENGTH (La) (feet)	APRON WIDTH AT HEADWALL(Wt) (feet)	APRON WIDTH DOWNSTREAM OF PIPE(Wt2) (feet)	MIN. APRON THICKNESS(d) (inches)	PIPE DIAMETER (inches)	FLOW RATE (cfs)	VELOCITY (fps)	TAILWATER CONDITION (feet)
St#1	24	16	7.5	19	36	30	20.18	13.38	0
St#2	12	6	3	7	18	12	0.24	3.71	0
St#3	12	6	1.5	6.5	18	0.5	0.55	3.43	0
St#4	12	6	1.5	6.5	18	0.5	0.55	3.43	0
St#5	12	6	1.5	6.5	18	0.5	0.55	3.43	0
St#6	12	6	1.5	6.5	18	0.5	0.55	3.43	0
St#7	12	6	1.5	6.5	18	0.5	0.55	3.43	0



DEVELOPER/OWNER:

CITY OF DUNWOODY PARKS AND REC
4800 ASHFORD DUNWOODY ROAD
DUNWOODY, GA 30338
(678) 382-6857

SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

(04) 24 HR LOCAL EMERGENCY CONTACT

BRENT WALKER (678)382-6857
CITY OF DUNWOODY PARKS AND REC

(CONTRACTOR'S NAME) (PHONE NUMBER)

NOTE: CONTRACTOR TO PROVIDE UPDATED INFORMATION ONCE CONTRACT IS AWARDED.

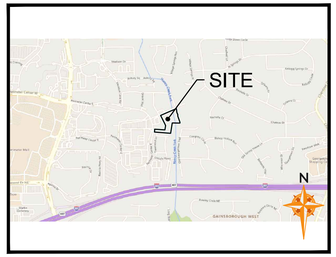
NOTE: SEE SURVEY FOR EXISTING LEGEND SYMBOLS

EROSION CONTROL LEGEND

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- GRADE BREAK
- XXX CONTOUR ELEVATIONS
- STORM DRAIN
- X.XX% DIRECTION OF OVERLAND FLOW
- LIMITS OF DRAINAGE SUB-BASIN
- SOIL SERIES BOUNDARY
- XX SILT FENCE
- TREE PROTECTION FENCE
- SWPPP INFORMATION SIGN

SOIL SERIES LEGEND (40)

Ca	CARTECAY SILT LOAM HSG: A/D
Tf	TOCCOA SANDY LOAM 0 TO 2 PERCENT SLOPES, HSG: A
Ud	URBAN LAND



(10) LOCATION MAP
NOT TO SCALE

(20) STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Sd1	SEDIMENT BARRIER		(TYPE "S")	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sg	SILT CONTROL GATES			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.

(32) VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

REFER TO PLAN SHEET ES-4 FOR FOR GENERAL NOTES, MAINTENANCE NOTES, SITE DATA & QUAD MAP

PROVIDE TEMPORARY IRRIGATION OR WATERING, VIA WATER TRUCK, AS NEEDED TO ESTABLISH TEMPORARY AND PERMANENT VEGETATION UNTIL THE PERMANENT IRRIGATION SYSTEM IS FULLY FUNCTION OR UNTIL THE NOT IS SUBMITTED IF A PERMANENT IRRIGATION SYSTEM ISN'T PLANNED. AREAS NOT HAVING A PERMANENT IRRIGATION SYSTEM SHALL BE IRRIGATED OR WATERED UNTIL THE NOT HAS BEEN SUBMITTED AND ACCEPTED.

(XX) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST. SEE SHEET ES-4 FOR ES&PC CHECKLIST.

PHASE I EROSION SEDIMENTATION & POLLUTION CONTROL PLAN

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

N

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

USER 6674 - Jan 07, 2022 - 4:27pm
Z:\All Project Data\Projects\2020\20-LD-025 Perimeter Center Park, Dunwoody, GA\LD\Production\Production Drawings\20-LD-025 MAIN.dwg - LAYOUT: ES-1 VERSION: ----

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED 7/1/22 No. 037720 PROFESSIONAL ENGINEER CHRISTOPHER L. MANES

(02) GSWCC# 10882
EXP: 05/24/2024

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

(08) REVISIONS	BY

DRAWN BY DMN
CHECKED BY CLM
DATE: (08) 01/07/2022
SCALE: 1"= 50'
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
ES-1

20-LD-025 MAIN.DWG

CONSERVATION COMMISSION NOTES

(20) EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

(30) THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.

ALL EROSION & SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ONSITE INSPECTION BY THE ISSUING AUTHORITY.

(21) ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

(06) ACREAGE SUMMARY (IN ACRES)

SITE AREA		6.633 AC±
ON-SITE DISTURBED AREA		3.54 AC±
OFF-SITE DISTURBED AREA		0.36 AC±
TOTAL DISTURBED AREA	(MUST MATCH NOI)	3.90 AC±
IMPERVIOUS AREA AT COMPLETION		0.99 AC±
PERVIOUS AREA AT COMPLETION		2.91 AC±

(60) TEMPORARY SEDIMENT TRAP "1" CALCULATIONS

DRAINAGE AREA = 0.34
DISTURBED AREA = 0.34
SEDIMENT STORAGE REQUIRED = 23 (67 CY/AC.)
SEDIMENT STORAGE PROVIDED = 46
CLEANOUT VOLUME REQUIRED = 8 (22 CY/AC.)
CLEANOUT VOLUME PROVIDED = 15
CLEANOUT VOLUME ELEVATION = 939.00

(40) TEMPORARY SILT FENCE CALCULATIONS (Sd1)

DRAINAGE AREA = 0.95 AC
DISTURBED AREA = 0.95 AC
SILT FENCE REQUIRED = 380 LF (100 LF/0.25 AC)
SILT FENCE PROVIDED = 654 LF

NOTE:
SILT FENCE IS BEING USED TO CONTAIN SEDIMENT FOR THE 0.95 ACRES THAT ARE DOWNSTREAM OF THE SEDIMENT TRAPS. THIS AREA IS EITHER DOWN GRADIENT OF THE PRIMARY SEDIMENT CONTROL MEASURE OR DRAINS AWAY FROM SAID FEATURES; THUS, IT CAN'T BE ROUTED THROUGH SAID FEATURES.

STORM DRAIN OUTLET PROTECTION

NUMBER	AVG. STONE SIZE (d50) (inches)	APRON LENGTH (La) (feet)	APRON WIDTH AT HEADWALL(W1) (feet)	APRON WIDTH DOWNSTREAM OF PIPE(W2) (feet)	MIN. APRON THICKNESS(d) (inches)	PIPE DIAMETER (inches)	FLOW RATE (cfs)	VELOCITY (fps)	TAILWATER CONDITION (feet)
St#1	24	16	7.5	19	36	30	20.18	13.38	0
St#2	12	6	3	7	18	12	0.24	3.71	0
St#3	12	6	1.5	6.5	18	0.5	0.55	3.43	0
St#4	12	6	1.5	6.5	18	0.5	0.55	3.43	0
St#5	12	6	1.5	6.5	18	0.5	0.55	3.43	0
St#6	12	6	1.5	6.5	18	0.5	0.55	3.43	0
St#7	12	6	1.5	6.5	18	0.5	0.55	3.43	0

MULCHING SCHEDULE (Ds1)(S1)

MULCHING MATERIAL	RATE/ACRE
DRY STRAW OR HAY	2.5 TONS (6 TO 8" DEEP)
WOOD WASTE, CHIPS, SAWDUST, OR BARK	6 TO 9 TONS (2 TO 3" DEEP)

TEMPORARY SEEDING SCHEDULE (Ds2)(S1)

SPECIES (MIXTURE OF)	RATE/ACRE	PLANTING DATES
SUDAN (SWEET OR TIFT)	60 LBS	APRIL1–SEPT 1
ANNUAL RYE GRASS	40 LBS	AUG 1–APRIL 15

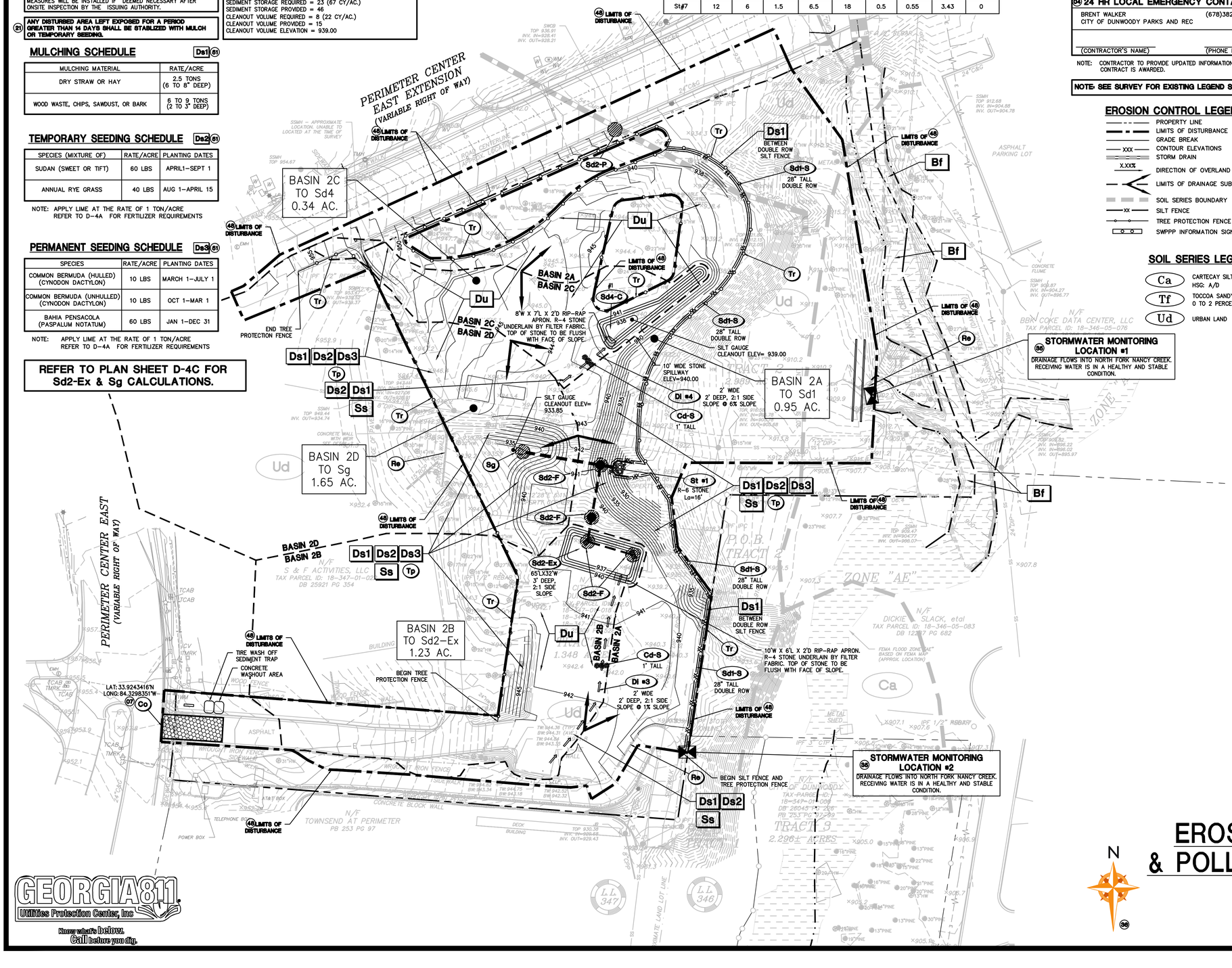
NOTE: APPLY LIME AT THE RATE OF 1 TON/ACRE
REFER TO D-4A FOR FERTILIZER REQUIREMENTS

PERMANENT SEEDING SCHEDULE (Ds3)(S1)

SPECIES	RATE/ACRE	PLANTING DATES
COMMON BERMUDA (HULLED) (CYNODON DACTYLON)	10 LBS	MARCH 1–JULY 1
COMMON BERMUDA (UNHULLED) (CYNODON DACTYLON)	10 LBS	OCT 1–MAR 1
BAHIA PENSACOLA (PASPALUM NOTATUM)	60 LBS	JAN 1–DEC 31

NOTE: APPLY LIME AT THE RATE OF 1 TON/ACRE.
REFER TO D-4A FOR FERTILIZER REQUIREMENTS

REFER TO PLAN SHEET D-4C FOR Sd2-Ex & Sg CALCULATIONS.



DEVELOPER/OWNER:

CITY OF DUNWOODY PARKS AND REC
4800 ASHFORD DUNWOODY ROAD
DUNWOODY, GA 30338
(678) 382-6857

SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

(04) 24 HR LOCAL EMERGENCY CONTACT

BRENT WALKER (678)382-6857
CITY OF DUNWOODY PARKS AND REC

(CONTRACTOR'S NAME) (PHONE NUMBER)

NOTE: CONTRACTOR TO PROVIDE UPDATED INFORMATION ONCE CONTRACT IS AWARDED.

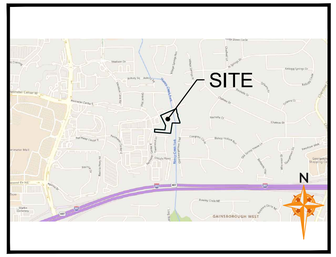
NOTE: SEE SURVEY FOR EXISTING LEGEND SYMBOLS

EROSION CONTROL LEGEND

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- GRADE BREAK
- XXX CONTOUR ELEVATIONS
- STORM DRAIN
- X.XX% DIRECTION OF OVERLAND FLOW
- LIMITS OF DRAINAGE SUB-BASIN
- SOIL SERIES BOUNDARY
- XX SILT FENCE
- TREE PROTECTION FENCE
- SWPPP INFORMATION SIGN

SOIL SERIES LEGEND (48)

Ca	CARTECAY SILT LOAM HSG: A/D
Tf	TOCCOA SANDY LOAM 0 TO 2 PERCENT SLOPES, HSG: A
Ud	URBAN LAND



(10) LOCATION MAP
NOT TO SCALE

(20) STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Dl	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Sd1	SEDIMENT BARRIER		(TYPE "S")	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sg	SILT CONTROL GATES			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.

(52) VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE		Bf (VAR.)	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

REFER TO PLAN SHEET ES-4 FOR FOR GENERAL NOTES, MAINTENANCE NOTES, SITE DATA & QUAD MAP

PROVIDE TEMPORARY IRRIGATION OR WATERING, VIA WATER TRUCK, AS NEEDED TO ESTABLISH TEMPORARY AND PERMANENT VEGETATION UNTIL THE PERMANENT IRRIGATION SYSTEM IS FULLY FUNCTION OR UNTIL THE NOT IS SUBMITTED IF A PERMANENT IRRIGATION SYSTEM ISN'T PLANNED. AREAS NOT HAVING A PERMANENT IRRIGATION SYSTEM SHALL BE IRRIGATED OR WATERED UNTIL THE NOT HAS BEEN SUBMITTED AND ACCEPTED.

(24) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST. SEE SHEET ES-4 FOR ES&PC CHECKLIST.

PHASE II
EROSION SEDIMENTATION & POLLUTION CONTROL PLAN

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED 1/1/22 No. 037720 PROFESSIONAL ENGINEER CHRISTOPHER L. MANES

(02) GSWCC# 10882
EXP: 05/24/2024

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

(08) REVISIONS	BY

DRAWN BY: DMN
CHECKED BY: CLM
DATE: (08) 01/07/2022
SCALE: 1"= 40'
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
ES-2

20-LD-025 MAIN.DWG

USER: 6674 – Jan 07, 2022 – 4:27pm
Z:\All Project Data\Projects\2020\20-LD-025 Perimeter Center Park, Dunwoody, GA\LD\Production\Production Drawings\20-LD-025 MAIN.dwg – LAYOUT: ES-2 VERSION: ----

CONSERVATION COMMISSION NOTES

(20) EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

(19) THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.

ALL EROSION & SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ONSITE INSPECTION BY THE ISSUING AUTHORITY.

(21) ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

MULCHING SCHEDULE (Ds1) (S1)

MULCHING MATERIAL	RATE/ACRE
DRY STRAW OR HAY	2.5 TONS (6 TO 8" DEEP)
WOOD WASTE, CHIPS, SAWDUST, OR BARK	6 TO 9 TONS (2 TO 3" DEEP)

TEMPORARY SEEDING SCHEDULE (Ds2) (S1)

SPECIES (MIXTURE OF)	RATE/ACRE	PLANTING DATES
SUDAN (SWEET OR TIFT)	60 LBS	APRIL1-SEPT 1
ANNUAL RYE GRASS	40 LBS	AUG 1-APRIL 15

NOTE: APPLY LIME AT THE RATE OF 1 TON/ACRE
REFER TO D-4A FOR FERTILIZER REQUIREMENTS

PERMANENT SEEDING SCHEDULE (Ds3) (S1)

SPECIES	RATE/ACRE	PLANTING DATES
COMMON BERMUDA (HULLED) (CYNODON DACTYLON)	10 LBS	MARCH 1-JULY 1
COMMON BERMUDA (UNHULLED) (CYNODON DACTYLON)	10 LBS	OCT 1-MAR 1
BAHIA PENSACOLA (PASPALUM NOTATUM)	60 LBS	JAN 1-DEC 31

NOTE: APPLY LIME AT THE RATE OF 1 TON/ACRE.
REFER TO D-4A FOR FERTILIZER REQUIREMENTS

REFER TO PLAN SHEET D-4C FOR Sd2-Ex & Sg CALCULATIONS.

(06) ACREAGE SUMMARY (IN ACRES)

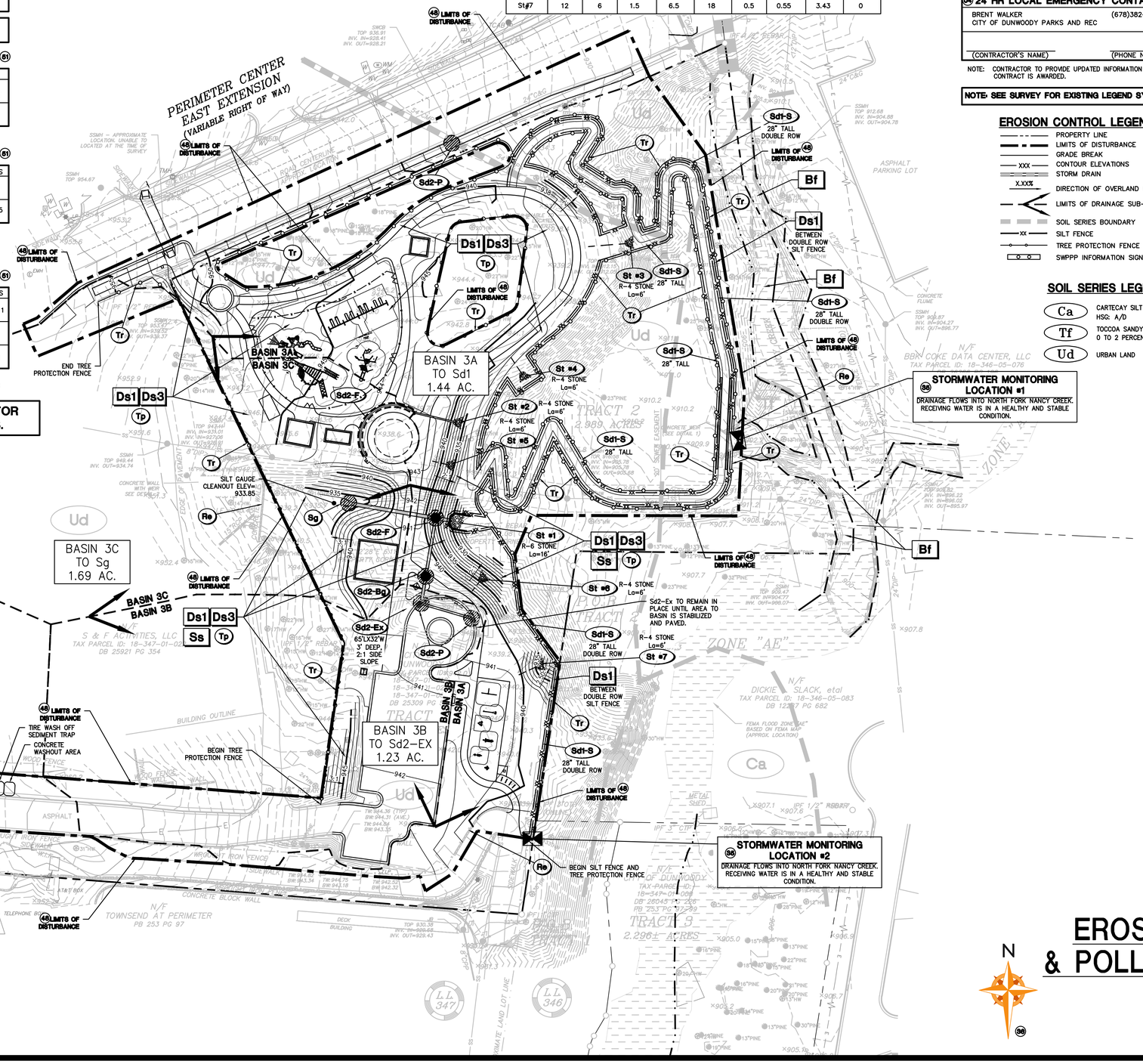
SITE AREA	6.633 AC±
ON-SITE DISTURBED AREA	3.54 AC±
OFF-SITE DISTURBED AREA	0.36 AC±
TOTAL DISTURBED AREA (MUST MATCH NOI)	3.90 AC±
IMPERVIOUS AREA AT COMPLETION	0.99 AC±
PERVIOUS AREA AT COMPLETION	2.91 AC±

(48) TEMPORARY SILT FENCE CALCULATIONS (Sd1)

DRAINAGE AREA = 1.44 AC
DISTURBED AREA = 1.44 AC
SILT FENCE REQUIRED = 576 LF (100 LF/0.25 AC)
SILT FENCE PROVIDED = 2,154 LF

STORM DRAIN OUTLET PROTECTION

NUMBER	AVG. STONE SIZE (d50) (inches)	APRON LENGTH (La) (feet)	APRON WIDTH AT HEADWALL(Wt) (feet)	APRON WIDTH DOWNSTREAM OF PIPE(Wt2) (feet)	MIN. APRON THICKNESS(d) (inches)	PIPE DIAMETER (inches)	FLOW RATE (cfs)	VELOCITY (fps)	TAILWATER CONDITION (feet)
St#1	24	16	7.5	19	36	30	20.18	13.38	0
St#2	12	6	3	7	18	12	0.24	3.71	0
St#3	12	6	1.5	6.5	18	0.5	0.55	3.43	0
St#4	12	6	1.5	6.5	18	0.5	0.55	3.43	0
St#5	12	6	1.5	6.5	18	0.5	0.55	3.43	0
St#6	12	6	1.5	6.5	18	0.5	0.55	3.43	0
St#7	12	6	1.5	6.5	18	0.5	0.55	3.43	0



DEVELOPER/OWNER:

CITY OF DUNWOODY PARKS AND REC
4800 ASHFORD DUNWOODY ROAD
DUNWOODY, GA 30338
(678) 382-6857

SITE OPERATOR/GENERAL CONTRACTOR:

SUPERINTENDENT:

(24) 24 HR LOCAL EMERGENCY CONTACT

BRENT WALKER (678)382-6857
CITY OF DUNWOODY PARKS AND REC

(CONTRACTOR'S NAME) (PHONE NUMBER)

NOTE: CONTRACTOR TO PROVIDE UPDATED INFORMATION ONCE CONTRACT IS AWARDED.

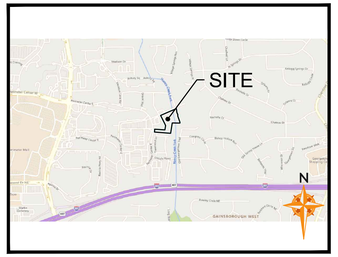
NOTE: SEE SURVEY FOR EXISTING LEGEND SYMBOLS

EROSION CONTROL LEGEND

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- GRADE BREAK
- XXX CONTOUR ELEVATIONS
- STORM DRAIN
- X.XX% DIRECTION OF OVERLAND FLOW
- LIMITS OF DRAINAGE SUB-BASIN
- SOIL SERIES BOUNDARY
- XX SILT FENCE
- TREE PROTECTION FENCE
- SWPPP INFORMATION SIGN

SOIL SERIES LEGEND (48)

- Ca CARTECAY SILT LOAM HSG: A/D
- Tf TOCCOA SANDY LOAM 0 TO 2 PERCENT SLOPES, HSG: A
- Ud URBAN LAND



(10) LOCATION MAP
NOT TO SCALE

(20) STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Sd1	SEDIMENT BARRIER		(TYPE "S")	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sg	SILT CONTROL GATES			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.

(32) VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE		(Bf)	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

REFER TO PLAN SHEET ES-4 FOR FOR GENERAL NOTES, MAINTENANCE NOTES, SITE DATA & QUAD MAP

PROVIDE TEMPORARY IRRIGATION OR WATERING, VIA WATER TRUCK, AS NEEDED TO ESTABLISH TEMPORARY AND PERMANENT VEGETATION UNTIL THE PERMANENT IRRIGATION SYSTEM IS FULLY FUNCTION OR UNTIL THE NOT IS SUBMITTED IF A PERMANENT IRRIGATION SYSTEM ISN'T PLANNED. AREAS NOT HAVING A PERMANENT IRRIGATION SYSTEM SHALL BE IRRIGATED OR WATERED UNTIL THE NOT HAS BEEN SUBMITTED AND ACCEPTED.

(XX) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST. SEE SHEET ES-4 FOR ES&PC CHECKLIST.

PHASE III EROSION SEDIMENTATION & POLLUTION CONTROL PLAN

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED 1/1/22 No. 037720 PROFESSIONAL ENGINEER CHRISTOPHER L. MANES

(02) CSWCC# 10882
EXP: 05/24/2024

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

(08) REVISIONS	BY

DRAWN BY DMN
CHECKED BY CLM
DATE: (08) 01/07/2022
SCALE: 1"= 40'
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
ES-3

20-LD-025 MAIN.DWG

GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

(01)

SWCD:______ DeKalb County

Project Name:________ Perimeter Center East park

Address:_ 4800 Ashford Dunwoody Road

City/County:__________ Dunwoody/DeKalb

Date on Plans:______ 1/7/2022

Name & email of person filling out checklist:________________ **Chris Manes, P.E. (cmanes@chacompanies.com)**

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N	
ES-4	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
ALL	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
N/A	N/A	3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. * (A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)
ES-1,2,3	Y	4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
ES-5	Y	5 Provide the name, address, email address, and phone number of primary permittee.
ES-1,2,3	Y	6 Note total and disturbed acreages of the project or phase under construction.
ES-1,2,3	Y	7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
ALL	Y	8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
ES-4	Y	9 Description of the nature of construction activity and existing site conditions.
ES-1,2,3	Y	10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
ES-4	Y	11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
ES-5	Y	12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on **Part IV page 19** of the permit.
ES-5	Y	13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on **Part IV page 19** of the permit. *
ES-4	Y	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with **Part IV.A.5 page 25** of the permit. *
ES-5	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
N/A	N/A	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
ES-4	Y	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
ES-5	Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
ES-1,2,3	Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
ES-1,2,3	Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
ES-1,2,3	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
N/A	N/A	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
N/A	N/A	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
ES-2,3,5,D-4C	Y	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
ES-4	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
ES-4	Y	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
ES-4	Y	27 Description of practices to provide cover for building materials and building products on site. *
ES-4	Y	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
ES-5	Y	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
ES-4	Y	30 Provide complete requirements of Inspections and record keeping by the primary permittee. *
ES-4	Y	31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
ES-4	Y	32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *
ES-4	Y	33 Description of analytical methods to be used to collect and analyze the samples from each location. *
ES-4,5	Y	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
ES-1,2,3,5	Y	35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. *
ES-5	Y	36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
ALL	Y	37 Graphic scale and North arrow.
ES-1,2,3	Y	38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10

Plan Page #	Included Y/N	
N/A	N/A	39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
N/A	N/A	40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
N/A	N/A	41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
ES-1,2,3	Y	42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
ES-1,2,3	Y	43 Delineation and acreage of contributing drainage basins on the project site.
HYDRO REPORT	Y	44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
ES-4	Y	45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
ES-1,2,3	Y	46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
ES-1,2,3,5	Y	47 Soil series for the project site and their delineation.
ES-1,2,3	Y	48 The limits of disturbance for each phase of construction.
ES-2,3	Y	49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
ES-1,2,3	Y	50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
D-4A-D-4C	Y	51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
ES-1,2,3	Y	52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.

* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2022

SITE DESCRIPTION

DEVELOPER: CITY OF DUNWOODY PARKS AND RECREATION
4800 ASHFORD DUNWOODY ROAD
DUNWOODY, GA 30338
24 HOUR CONTACT: BRENT WALKER
TELEPHONE: (678) 382-6857
EMAIL: BRENT.WALKER@DUNWOODYGA.GOV

(09) PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF MUNICIPAL RECREATIONAL FACILITIES ALONG WITH ASSOCIATED PARKING AND STORMWATER MANAGEMENT FACILITIES. THE TOTAL SITE AREA AND TOTAL DISTURBED AREA ARE LISTED BELOW. THIS SITE IS LOCATED IN A DEVELOPED AREA.

ZONING

THE PROPOSED DEVELOPMENT IS ZONED O-I.

EARTHWORK

THE VOLUME OF CUT IS 983 CY.
THE VOLUME OF FILL IS 3566 CY.
* EARTHWORK NUMBERS ARE PROVIDED PER THE STATE'S STORMWATER PERMIT AND SHOULD NOT BE USED FOR BIDDING PURPOSES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM HIS/HER OWN QUANTITY TAKE OFF FOR BIDDING PURPOSES.

ADJACENT AREA INFORMATION AND EXISTING CONDITIONS

THIS SITE IS LOCATED IN DUNWOODY, GA. PRESENTLY IT IS UNDEVELOPED. THE SITE IS BOUNDED ON THE NORTH BY PERIMETER CENTER EAST, TO THE SOUTH BY RESIDENTIAL PROPERTY, TO THE EAST BY AN OFFICE DEVELOPMENT AND RESIDENTIAL PROPERTY, AND TO THE WEST BY RESIDENTIAL PROPERTY AND A MONTESSORI SCHOOL.

FLOOD ZONE STATEMENT

THE SURVEYOR CERTIFIES THAT ACCORDANT TO FLOOD INSURANCE RATE MAP #13089C0012K, DATED AUGUST 15, 2019. THIS SITE LIES IN AN AREA HAVING SPECIAL HAZARDS (100 YR FLOOD PRONE).

EXISTING EROSION CONTROL PROBLEMS

NO EROSION CONTROL PROBLEMS EXIST ON SITE.

ONSITE DISTURBED AREA = 6.633 ACRES
DISTURBED AREA = 3.90 ACRES
AREA TO BE PAVED = 41,409 SF
AREA TO BE VEGETATED = 126,792 SF
AREA TO BE ROOFED = 1,683 SF

(47) SOIL TYPES

THE NRCS SOIL TYPES ARE AS FOLLOWS:
Ca: CARTECAY SILT LOAM, HSG = A/D
Tf: TOCCOA SANDY LOAM, 0 TO 2 PERCENT SLOPES, HSG = A
Ud: URBAN LAND

SOIL DISTURBING ACTIVITIES DESCRIPTION

INSTALLING A STABILIZED CONSTRUCTION EXIT, PERIMETER AND OTHER EROSION AND SEDIMENT CONTROLS, EXCAVATION OF THE SEDIMENTATION BASINS, CLEARING AND GRUBBING, GRADING AND EXCAVATION FOR THE STORM SEWER, UTILITIES AND BUILDING FOUNDATIONS, CONSTRUCTION OF DRIVEWAYS, SIDEWALKS AND PARKING AREAS. PREPARATION FOR FINAL PLANTING AND SEEDING AND COMPLETION OF ON-SITE STABILIZATION.

(45) RUNOFF COEFFICIENT

THE PRE DEVELOPMENT CURVE NUMBER FOR BASIN 1 WAS CN=85. THE PEAK PRE DEVELOPMENT RUNOFF RATE FOR THE 25 YEAR DESIGN EVENT IS 112.17 CFS.

THE FINAL CURVE NUMBER FOR BASIN 1 WILL BE CN=86. THE PEAK POST DEVELOPMENT DISCHARGE FOR THE 25 YEAR DESIGN EVENT IS 86.62 CFS.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE FOLLOWING MATERIALS ARE EXPECTED ONSITE DURING CONSTRUCTION: CONCRETE PRODUCTS, ASPHALT, PETROLEUM BASED FUELS AND LUBRICANTS FOR EQUIPMENT, TAR, METAL BUILDING MATERIALS, LUMBER, SHEETROCK, FLOOR COVERINGS, ELECTRICAL WIRE AND FIXTURES, PAINTS/STAINS/FINISHING TREATMENTS, CLEANING SOLVENTS, FERTILIZERS, HERBICIDES, CRUSHED STONE, PLASTIC AND METAL PIPES.

(28) SPILL PREVENTION

PRACTICES SUCH AS GOOD HOUSEKEEPING, PROPER HANDLING OF HAZARDOUS PRODUCTS AND PROPER SPILL CONTROL PRACTICES WILL BE FOLLOWED TO REDUCE THE RISK OF SPILLS AND SPILLS FROM DISCHARGING INTO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

1. QUANTITIES OF PRODUCTS STORED ONSITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB.
2. PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL, WHERE POSSIBLE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.
4. PRODUCT MIXING, DISPOSAL OF PRODUCTS, AND THE DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.
5. THE CONTRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND DISPOSAL.

(34) NTU VALUES

BASED ON A SITE AREA OF 6.633 ACRES AND A SURFACE WATER DRAINAGE AREA OF 1.19 mi^2 THE ALLOWABLE NTU VALUES OF THE SAMPLING IS 75 FOR THIS SITE.

DEVELOPER/OWNER:
CITY OF DUNWOODY PARKS AND REC
4800 ASHFORD DUNWOODY ROAD
DUNWOODY, GA 30338
(678) 382-6857

SITE OPERATOR/GENERAL CONTRACTOR:
____

SUPERINTENDENT:
____

GEORGIA811
Utilities Protection Center, Inc
Know what's below. Call before you dig.

(25) (27) PRODUCT SPECIFIC PRACTICES

PETROLEUM BASED PRODUCTS – CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL BE COLLECTED IN A SUITABLE CONTAINER AND DISPOSED AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHES/SOLVENTS – ALL PRODUCT WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING – NO CONCRETE TRUCKS WILL BE ALLOWED TO BE WASHED OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.

FERTILIZER/HERBICIDES – THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURERS SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

BUILDING MATERIALS – NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES. DURING STORAGE BUILDING MATERIALS SHALL BE COVERED BY A TARP OR SIMILAR MECHANISM TO PREVENT DIRECT CONTACT WITH RAIN WATER.

(25) (28) SPILL CLEANUP AND CONTROL PRACTICES

LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.

THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORM WATER DISCHARGE(S) FROM A SITE SHALL BE PREVENTED. THE GENERAL PERMIT GAR100003 DOES NOT RELIEVE THE PERMITTEE OF THE REPORTING REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. 12-14-2, ET SEQ.), 40 CFR PART 117 AND 40 CFR PART 302. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. 12-14-2, ET SEQ.), 40 CFR PART 117 OR 40 CFR PART 302 OCCURS DURING A 24 HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY EPD AT (404) 656-4863 OR (800) 241-4113 AND THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802 IN ACCORDANCE WITH THE REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. 12-14-2, ET SEQ.), 40 CFR PART 117 AND 40 CFR PART 302 AS SOON AS HE/SHE HAS KNOWLEDGE OF THE DISCHARGE.

THE CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

(14) INITIAL INSPECTION NOTIFICATION

THE CONTRACTOR SHALL NOTIFY CHA WITHIN 7 DAYS OF THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES SO THAT AN INSPECTION OF THE EROSION & SEDIMENTATION FACILITIES CAN BE PERFORMED PURSUANT TO THE GEORGIA NPDES GENERAL PERMIT REQUIREMENTS.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

THE MORE STRINGENT OF THESE PLANS, SPECIFICATIONS, LOCAL GOVERNMENT, AND THE NPDES GENERAL PERMIT NO. GAR 100003 SHALL BE FOLLOWED.

NON-STORMWATER DISCHARGES

THE FOLLOWING NON-STORMWATER DISCHARGES MAY OCCUR ON THIS SITE DURING CONSTRUCTION: FIRE FIGHTING ACTIVITIES, FIRE HYDRANT FLUSHING, POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING, IRRIGATION DRAINAGE, AIR CONDITIONING CONDENSATE, SPRINGS, UNCONTAMINATED GROUND WATER, AND/OR FOUNDATION/FOOTING DRAINS CARRYING UNCONTAMINATED FLOWS.
AS THESE DISCHARGES OCCUR THE CONTRACTOR SHOULD NOTE THEM ON THE PLANS.

(29) SEQUENCE OF MAJOR ACTIVITIES

SEE SHEET ES-5 FOR ANTICIPATED ACTIVITY SCHEDULE.

(11) NAME OF RECEIVING WATERS

THE ENTIRE SITE DRAINS INTO AN UNNAMED TRIBUTARY OF NORTH FORK NANCY CREEK.

EROSION AND SEDIMENT CONTROLS

TEMPORARY AND PERMANENT STABILIZATION THROUGH VEGETATIVE BEST MANAGEMENT PRACTICES AND STRUCTURAL BEST MANAGEMENT PRACTICES WILL BE DESIGNED, INSTALLED AND MAINTAINED PER THE MANUAL OF EROSION AND SEDIMENT CONTROL IN GEORGIA. THE STABILIZATION MEASURES WILL PROTECT EXISTING VEGETATION WHERE POSSIBLE AND STABILIZED AREAS THAT ARE DISTURBED DURING CONSTRUCTION ACTIVITIES. STRUCTURAL MEASURES WILL BE USED TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS. THE LOCATION AND SCHEDULING OF BMPS ARE SHOWN ON SHEETS ES-1, ES-2 AND ES-3. SPECIFIC DETAILS FOR THESE BMPS ARE LOCATED IN THE DETAIL SHEETS OF THE CONSTRUCTION DRAWINGS.

(28) (26) STORM WATER MANAGEMENT

DURING CONSTRUCTION, TEMPORARY SEDIMENT TRAPS WILL BE CONSTRUCTED TO STORE RUNOFF FROM AREAS DRAINED. THESE TRAPS WILL BE DESIGNED TO HOLD 67 CUBIC YARDS OF STORAGE PER ACRE DRAINED. OUTFALLS FOR THE TEMPORARY SEDIMENT TRAPS WILL BE MARKED TO INDICATE WHEN SEDIMENT FILLS TO A VOLUME OF 22 CUBIC YARDS PER ACRE FOR EACH ACRE WITHIN THAT DRAINAGE AREA. WHEN SEDIMENT REACHES THE INDICATOR, THE SEDIMENT WILL BE REMOVED TO RESTORE THE ORIGINAL DESIGN VOLUME. THIS SEDIMENT WILL BE PROPERLY DISPOSED OF PER LOCAL AND STATE REGULATIONS. UPON COMPLETION OF CONSTRUCTION AND AFTER FINAL STABILIZATION, STORM WATER DRAINAGE WILL BE PROVIDED BY CURB AND GUTTER, STORM SEWER AND CATCH BASINS, FOR THE DEVELOPED AREAS. THE AREAS WHICH ARE NOT DEVELOPED WILL BE GRADED AS SHOWN ON C-2 AND WILL HAVE PERMANENT SEEDING OR PLANTINGS. THE DEVELOPED AREAS WILL DRAIN TO A FIRST DEFENSE, BIOSLOPES, AND/OR VEGETATED FILTER STRIPS. THE BMPS WERE DESIGNED BY A DESIGN PROFESSIONAL TO MEET THE DESIGN REQUIREMENTS OF GOVERNING AGENCIES.

(26) WASTE DISPOSAL

NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS.

WASTE MATERIALS:
ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

(26) HAZARDOUS WASTES

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER OF THE MATERIAL. ALL SITE PERSONNEL WILL BE INSTRUCTED IN THESE PROCEDURES AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

SANITARY WASTES

ALL SANITARY WASTES WILL BE COLLECTED FROM THE PORTABLE UNITS AND TEMPORARY SEPTIC SYSTEMS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY LOCAL OR STATE REGULATIONS.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION EXIT HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. SEE SHEETS ES-1, ES-2, AND ES-3 FOR CONSTRUCTION EXIT LOCATION(S). THE PAVED STREET ADJACENT THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

TIMING OF CONTROLS

AS INDICATED ON THE ANTICIPATED ACTIVITY SCHEDULE ON SHEETS ES-5 SEDIMENT CONTROLS AT THE PERIMETER AND THE CONSTRUCTION EXIT(S) WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY PORTION OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND/OR MULCH WITHIN 14 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, ALL ACCUMULATED SEDIMENT WILL BE REMOVED AND DISPOSED OF PROPERLY AND ALL PERIMETER SEDIMENT CONTROLS WILL BE REMOVED.

EROSION, SEDIMENTATION, AND POLLUTION CONTROL NARRATIVE

MAINTENANCE AND INSPECTION OF EROSION AND SEDIMENT CONTROLS

MAINTENANCE:
PRACTICES DESCRIBED IN THIS PLAN (SEE SHEETS ES-1, ES-2, ES-3 AND DETAIL SHEETS) AS WELL AS PRACTICES DESCRIBED IN MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA WILL BE FOLLOWED IN A TIMELY MANNER SUCH THAT VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE PLAN ARE IN GOOD AND EFFECTIVE OPERATING CONDITIONS.

INSPECTIONS: (30)
PRIMARY PERMITTEE:
(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT:
(A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT;
(B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
(2). MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.
(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.a.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
(4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (i.e., UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
(5). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
(6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (i.E., INITIAL, INTERMEDIATE, OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.a.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

SAMPLING REQUIREMENTS:

GENERAL REQUIREMENTS:
(1). A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE COMMON DEVELOPMENT;
(A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;
(2). THE ANALYTICAL METHOD USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;
(3). WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE FACILITY OR COMMON DEVELOPMENT, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E. TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND
(4). ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

SAMPLE TYPE:

(1). ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.
(2). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
(3). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
(4). LARGE MOUTH, CLEAN AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
(5). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THE PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED USING A DIRECT READING, PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
(6). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) AND/OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

SAMPLING POINTS: (33)

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THE PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:
(A). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
(B). THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
(C). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
(D). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.
(E). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
(F). THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
(G). PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED 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 EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES; A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION; OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION.
(H). ALL SAMPLING PURSUANT TO THE PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4. WHICHEVER IS APPLICABLE.

SAMPLING FREQUENCY: (31)

(1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN FORTY-FIVE (45) MINUTES OF:
(A) THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT, IF THE STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN AT OR PRIOR TO THE ACCUMULATION, OR
(B) THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.
(2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THE PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
(3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS:
(A). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* (MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM, EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;
(B). IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* THAT OCCURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;
(C). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN 2 BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED; AND
(D). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THE PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A.) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B.). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B.) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C.) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

REPORTING: (31)

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
A. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
B. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
C. THE DATE(S) ANALYSES WERE PERFORMED;
D. THE TIME(S) ANALYSES WERE INITIATED;
E. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND
I. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THE PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THE PERMIT. THE APPLICABLE PERMITTEES SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

RETENTION OF RECORDS: (32)

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD.
B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THE PERMIT.
C. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THE PERMIT.
D. A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THE PERMIT;
E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THE PERMIT;
F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THE PERMIT; AND
G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(1)(C) OF THE PERMIT.
2. EACH SECONDARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD.
B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THE PERMIT OR APPLICABLE PORTION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN FOR THEIR ACTIVITIES AT THE CONSTRUCTION SITE REQUIRED BY THE PERMIT.
C. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.B. OF THE PERMIT; AND
D. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THE PERMIT
3. EACH TERTIARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THE PERMIT.
C. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THE PERMIT.
D. A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THE PERMIT;
E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THE PERMIT; AND
F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THE PERMIT;
G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(1)(C) OF THE PERMIT.
4. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THE PERMIT AND ALL OTHER RECORDS REQUIRED BY THE PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THE PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

REPORT SUBMITTAL

ALL WRITTEN CORRESPONDENCE REQUIRED BY THE PERMIT SHALL BE SUBMITTED BY UTILIZING THE GEORGIA EPD ONLINE SYSTEM (GEOS).

IMPAIRED STREAM SEGMENT MITIGATION

N/A

(49) TEMPORARY SEDIMENT BASINS CANNOT BE UTILIZED AS AN ES&PC BMP DUE TO THE NATURE OF FLOW ACROSS THE SITE. STORMWATER RUNOFF FLOWS DIRECTLY EITHER TO THE CREEK OR TO THE EXISTING BASIN. DISTURBING THE EXISTING BASIN DURING CONSTRUCTION IS NOT PERMITTED. THEREFORE, ALTERNATE BMPS (SILT FENCE, EXCAVATED INLET TRAPS, TEMPORARY SEDIMENT TRAPS, ETC.) HAVE BEEN PROVIDED THROUGHOUT THE SITE TO ACHIEVE ADEQUATE SEDIMENT STORAGE.

(14) "THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION."

(02) LEVEL II DESIGN PROFESSIONAL CERTIFICATION
CHRISTOPHER MANES, P.E.
GSWCC CERTIFICATION NO. 10882
ISSUE DATE: 05/24/2021
EXPIRATION DATE: 05/24/2024

(XX) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST. SEE SHEET ES-4 FOR ES&PC CHECKLIST.

EROSION SEDIMENTATION, AND POLLUTION CONTROL PLAN NOTES

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

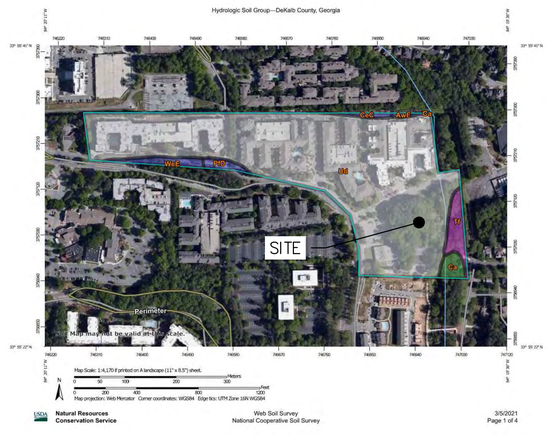
No. 039720
CHRISTOPHER L. MANES

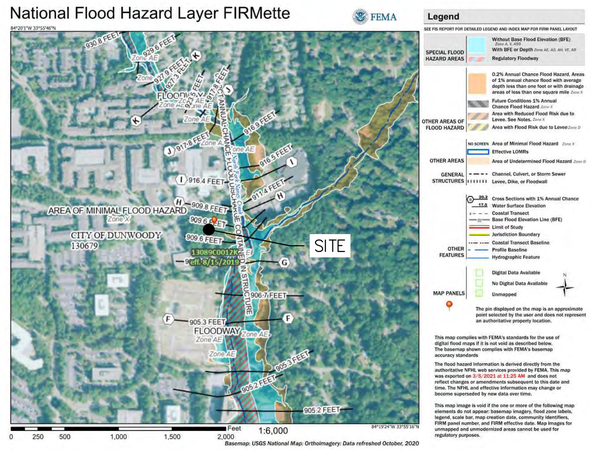
(02) GSWCC# 10882
EXP: 05/24/2024

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

(08) REVISIONS	BY

DRAWN BY: DMN
CHECKED BY: CLM
DATE: (08) 01/07/2022
SCALE: **NO SCALE**
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
ES-4





EROSION CONTROL NOTES

1. SILT FENCE MUST MEET THE REQUIREMENTS OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA.
2. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED BY CONTRACTOR WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS TO ENSURE COMPLIANCE WITH REGULATIONS. ANY MEASURES IMPLEMENTED REQUIRING HYDRAULIC CALCULATIONS ARE TO BE COORDINATED WITH AND CERTIFIED BY THE DESIGN PROFESSIONAL PRIOR TO COMMENCEMENT.
3. PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE, AT A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE CITY OF DUNWOODY EROSION AND SEDIMENTATION ORDINANCE AND THE SEDIMENT CONTROL REGULATIONS, AND GEORGIA MANUAL ON EROSION AND SEDIMENT CONTROL.
4. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE. ALL OTHER DRIVEWAYS WITHOUT A CONSTRUCTION EXIT SHALL BE BARRICADED TO PROHIBIT INGRESS AND EGRESS TRAFFIC.
5. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE FROM THE SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.
6. DURING AND AFTER CONSTRUCTION IS COMPLETE, THE DETENTION POND AND POND OUTLET STRUCTURE SHALL BE CLEANED OF ALL DEBRIS AND EXCESS SEDIMENT. BOTTOM OF POND SHALL BE BROUGHT TO ELEVATION AND SHAPED AS SHOWN ON THE GRADING PLAN.
7. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL DEVICES, AS NEEDED.
8. EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
9. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 1/2 OF THE ORIGINAL HEIGHT OF THE SILT FENCE UTILIZED FOR EROSION CONTROL. IN THE SEDIMENTATION PONDS, SILT SHALL BE REMOVED WHEN THE CLEANOUT VOLUME (22 CY/AC) IS REACHED. SEDIMENT STORAGE INDICATORS MUST BE INSTALLED IN EACH POND.
10. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO LOCAL AND STATE STANDARDS.
11. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
12. SILT BARRIERS ARE TO BE PLACED AT DOWNSTREAM TOE OF ALL FILL SLOPES.
13. ALL SLOPES AND AREAS DISTURBED DURING CONSTRUCTION SHALL BE GRADED SMOOTH AND 4" OF AMENDED TOPSOIL APPLIED. THE AREA SHALL THEN BE SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL A HEALTHY STAND OF PERMANENT VEGETATION HAS BEEN ESTABLISHED FOR ALL DISTURBED AREAS.
14. ABSOLUTELY NO SEDIMENT SHALL BE PERMITTED TO LEAVE THE SITE DURING CONSTRUCTION. IF HEAVY RAINS AND UNUSUAL SITE CONDITIONS RESULT IN THE POLLUTION OF ROADWAYS OR ADJACENT PARCELS THEN THE GRADING CONTRACTOR SHALL CLEAN THE DISTURBED AREAS IMMEDIATELY AND RESTORE THE AREAS TO THE ORIGINAL CONDITION.
15. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE GOVERNING OFFICIALS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE INTIMATE WITH THE LOCAL EROSION CONTROL LAWS AND TO REFLECT THIS KNOWLEDGE IN HIS/HER ACTIONS AND QUOTATIONS.
16. REFERENCE THE CONSTRUCTION SEQUENCE FOR THE RELATIONSHIP BETWEEN THE INSTALLATION OF EROSION CONTROL FEATURES AND GENERAL CONSTRUCTION.
17. MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER AND THE CONTRACTOR.
18. ALL GRADED SLOPES STEEPER THAN 3:1 OR OVER 5' IN HEIGHT REGARDLESS OF SLOPE MUST BE HYDRA SEEDED AND COVERED WITH EXCELSIOR CURLEX BLANKETS OR APPROVED EQUAL FIBER MATTING. IF NOT HYDRA SEEDED, APPROVED MATTING THAT HAS BEEN IMPREGNATED WITH SEED AND FERTILIZER MUST BE USED. ALL SLOPES MUST BE PROPERLY PROTECTED UNTIL A PERMANENT VEGETATIVE STAND IS ESTABLISHED.
19. ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED AS SOON AS FINAL GRADE IS ACHIEVED. THESE DISTURBED AREAS MUST BE PROTECTED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
20. CONTRACTOR MUST HAUL OFF ALL SOLID WASTE TO AN APPROVED LAND FILL. SOLID WASTE BURNING ON SITE IS PROHIBITED.
21. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
22. ⑱ WASTE MATERIALS SHALL NOT BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
23. ⑮ NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
24. THERE ARE STATE WATERS LOCATED WITHIN 200 FT. OF THE SITE
25. THERE ARE NO WETLAND DISTURBANCES PROPOSED FOR THIS DEVELOPMENT.
26. ALL CONCRETE WASHOUT AREAS ARE TO BE CONTAINED IN SUCH A MANNER THAT NONE OF THE WATER COMES INTO CONTACT WITH THE SURROUNDING SOILS OR STORMWATER.
27. ㉔ CONCRETE WASHOUT AREA IS FOR CONCRETE WASH DOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
28. ⑰ AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
29. THE APPLICABLE PORTIONS EROSION SEDIMENTATION AND POLLUTION CONTROL PLAN IS TO BE PROVIDED TO EACH SECONDARY PERMITTEE PRIOR TO THE SECONDARY PERMITTEE CONDUCTING ANY CONSTRUCTION ACTIVITIES AND THAT EACH SECONDARY SHALL SIGN THE PLAN OR PORTION OF THE PLAN APPLICABLE TO THEIR SITE.

NOTE:

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL MONITORING OF STORM WATER RUNOFF AS DICTATED BY THE NEW GA LAW "CLEAN WATER ACT" GENERAL PERMIT No. GAR100001 GOVERNING EROSION CONTROL. ALL COSTS ARE TO BE INCLUDED IN BASE BID. CONTRACTOR IS RESPONSIBLE FOR ALL MONITORING FROM THE TIME LAND DISTURBING ACTIVITIES BEGIN UNTIL THE TIME "NOTICE OF TERMINATION" IS FILED. CONTRACTOR TO REFER TO EROSION CONTROL PLANS, SHEETS ES-1 THRU ES-3, AND GENERAL PERMIT No. GAR100001 FOR ADDITIONAL NOTES AND INFORMATION.

DESIGN PROFESSIONAL CERTIFICATIONS

⑬ "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR100001."

⑫ "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION."

CHRISTOPHER MANES, P.E.
PE # 032720
GSWCC CERTIFICATION NO. 10882

01/07/2022
DATE

(xx) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST. SEE SHEET ES-4 FOR ES&PC CHECKLIST.

DEVELOPER/OWNER:
CITY OF DUNWOODY PARKS AND REC
4800 ASHFORD DUNWOODY ROAD
DUNWOODY, GA 30338
(678) 382-6857

SITE OPERATOR/GENERAL CONTRACTOR:
____

SUPERINTENDENT:
____

GEORGIA811
Utilities Protection Center, Inc
Know what's below. Call before you dig.

PRIMARY PERMITTEE CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT THIS REPORT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

BRENT WALKER
⑧ PRINT NAME (AUTHORIZED REPRESENTATIVE)

11/29/21
DATE

SIGNATURE

4800 ASHFORD DUNWOODY RD
ADDRESS DUNWOODY GA 30338

678-382-6857
PHONE

678-533-0702
FAX

BRENT.WALKER@DUNWOODYGA.GOV
EMAIL

DESIGN PROFESSIONAL 7-DAY CERTIFICATION

____
DATE OF INSPECTION

"I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN ON THE DATE OF INSPECTION."

____
GSWCC LEVEL II DESIGN PROFESSIONAL GSWCC CERTIFICATION NO.

THE INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLANS:

1. ________________________
2. ________________________
3. ________________________
4. ________________________

THE DISCREPANCIES MUST BE ADDRESSED IMMEDIATELY AND A REINSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL THE DESIGN PROFESSIONALS CERTIFICATION IS OBTAINED.

㊼ **SOILS MAP**
NOT TO SCALE

FEMA FLOOD MAP
NOT TO SCALE

㊳ **U.S.G.S. QUADRANGLE MAP**
NOT TO SCALE

㉙ **ANTICIPATED ACTIVITY SCHEDULE**

	ACTIVITY	MONTH 1	2	3	4	5	6	7	8	9
1	INSTALL SEDIMENT CONTROLS (SILT AND/OR TREE PROTECTION FENCE @ PERIMETER OF SITE AND STORMWATER BASIN)	■								
2	CLEARING AND GRUBBING	■	■							
3	DEMOLITION (DISPOSAL OF EXISTING STRUCTURES)	■	■							
4	MASS GRADING			■	■	■	■			
5	STORM DRAINAGE INSTALLATION			■	■	■	■	■	■	
6	INSTALL SEDIMENT TRAPS @ STRS			■	■	■	■	■		
7	SANITARY SEWER INSTALLATION			■	■	■	■	■		
8	UTILITY INSTALLATION			■	■	■	■	■		
9	BLDG CONST & PAVING			■	■	■	■	■	■	
10	DESILTING OF STORM BASIN								■	■
11	GRASS (TEMP) & (PERM)	■	■	■	■	■	■	■	■	■
12	FINAL LANDSCAPING								■	■
13	MAINTAIN EROSION CONTROL	■	■	■	■	■	■	■	■	■
14	CLEAN UP									■

NOTE: THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

REPRESENTS A 30-DAY PERIOD

㊱ BEST MANAGEMENT PRACTICES SEQUENCE

PHASE I

1. INSTALL STABILIZED CONSTRUCTION EXIT(S).
2. INSTALL SILT FENCE(S) AND TREE PROTECTION FENCE(S) ON THE SITE. (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE).
3. PREPARE TEMPORARY PARKING AND STORAGE AREA.
4. **GA 7 DAY BMP INSPECTION REQUEST**
   THE GENERAL CONTRACTOR SHALL CONTACT CHA TO SCHEDULE AN INSPECTION OF THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.
5. CONSTRUCT AND STABILIZE SEDIMENT TRAP(S) WITH APPROPRIATE OUTFALL STRUCTURES. (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL BASINS AND TRAPS.)
6. BEGIN CLEARING AND GRUBBING THE SITE.
7. BEGIN GRADING THE SITE.
8. START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.

PHASE II

1. TEMPORARY SEED, THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.
2. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS.
3. INSTALL RIP-RAP AROUND OUTLET STRUCTURES AS EACH OUTLET STRUCTURE IS INSTALLED.
4. INSTALL INLET PROTECTION AT ALL STORM SEWER STRUCTURES AS EACH INLET STRUCTURE IS INSTALLED.
5. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
6. PREPARE SITE FOR PAVING.

PHASE III

1. COMPLETE OFF SITE ROADWAY WORK AND ASSOCIATED UNDERGROUND UTILITIES INSTALLING BMP'S AS SHOWN.
2. PAVE THE SITE.
3. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.
4. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.
5. FILE NOT.

ALLOWABLE NTU VALUE CHART (APPENDIX B)

㉞ **Waters Supporting Warm Water Fisheries**

Surface Water Drainage Area, square miles

Site Size, acres		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
	1.00-10	$\boxed{75}$	150	200	400	750	750	750	750
	10.01-25	50	100	100	200	300	500	750	750
	25.01-50	50	50	100	100	200	300	750	750
	50.01-100	50	50	50	100	100	150	300	600
	100.01 +	50	50	50	50	50	100	200	100

② LEVEL II DESIGN PROFESSIONAL CERTIFICATION
CHRISTOPHER MANES, P.E.
GSWCC CERTIFICATION NO. 10882
ISSUE DATE: 05/24/2021
EXPIRATION DATE: 05/24/2024

EROSION SEDIMENTATION, AND POLLUTION CONTROL PLAN NOTES

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 . www.chacompanies.com

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 032720
CHRISTOPHER L. MANES
1/7/22

② GSWCC# 10882
EXP: 05/24/2024

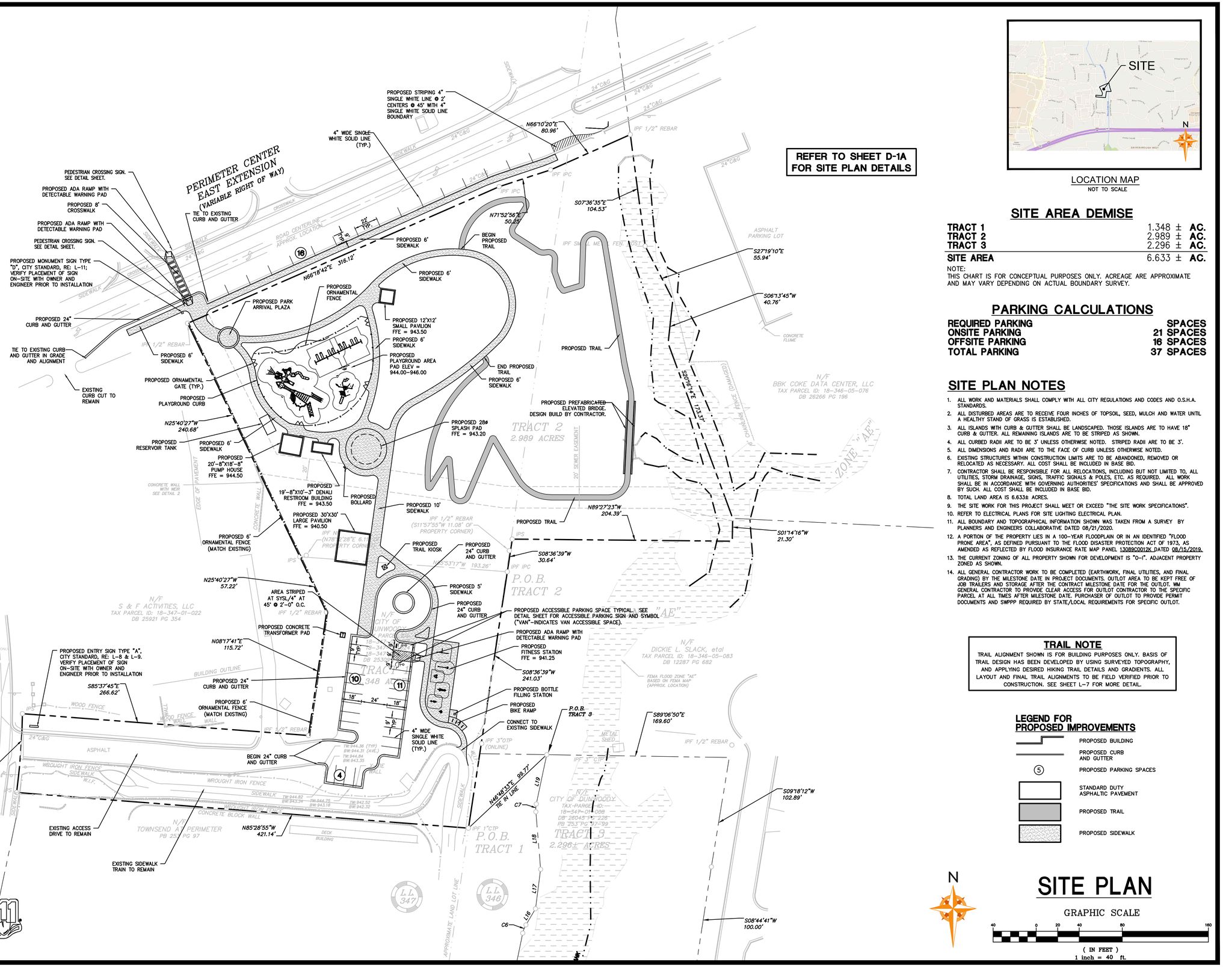
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

⑧ REVISIONS	BY

DRAWN BY DMN
CHECKED BY CLM
DATE: ⑧ 01/07/2022
SCALE: NO SCALE
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
ES-5

20-LD-025 MAIN.DWG

USER 6674 - Jan 07, 2022 - 4:28pm
Z:\All Project Data\Projects\2020\20-LD-025 Perimeter Center Park, Dunwoody, GA\LD\Production\Production Drawings\20-LD-025 MAIN.dwg - LAYOUT: ES-5 VERSION: -----



LOCATION MAP
NOT TO SCALE

SITE AREA DEMISE

TRACT 1	1.348 ±	AC.
TRACT 2	2.989 ±	AC.
TRACT 3	2.296 ±	AC.
SITE AREA	6.633 ±	AC.

NOTE:
THIS CHART IS FOR CONCEPTUAL PURPOSES ONLY. ACREAGE ARE APPROXIMATE AND MAY VARY DEPENDING ON ACTUAL BOUNDARY SURVEY.

PARKING CALCULATIONS

REQUIRED PARKING	SPACES
ONSITE PARKING	21 SPACES
OFFSITE PARKING	16 SPACES
TOTAL PARKING	37 SPACES

SITE PLAN NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
2. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
3. ALL ISLANDS WITH CURB & GUTTER SHALL BE LANDSCAPED. THOSE ISLANDS ARE TO HAVE 18" CURB & GUTTER. ALL REMAINING ISLANDS ARE TO BE STRIPED AS SHOWN.
4. ALL CURBED RADII ARE TO BE 3' UNLESS OTHERWISE NOTED. STRIPED RADII ARE TO BE 3'.
5. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
6. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES' SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
8. TOTAL LAND AREA IS 6.633± ACRES.
9. THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED "THE SITE WORK SPECIFICATIONS".
10. REFER TO ELECTRICAL PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
11. ALL BOUNDARY AND TOPOGRAPHICAL INFORMATION SHOWN WAS TAKEN FROM A SURVEY BY PLANNERS AND ENGINEERS COLLABORATIVE DATED 08/21/2020.
12. A PORTION OF THE PROPERTY LIES IN A 100-YEAR FLOODPLAIN OR IN AN IDENTIFIED "FLOOD PRONE AREA", AS DEFINED PURSUANT TO THE FLOOD DISASTER PROTECTION ACT OF 1973, AS AMENDED AS REFLECTED BY FLOOD INSURANCE RATE MAP PANEL 13089C0012K DATED 08/15/2019.
13. THE CURRENT ZONING OF ALL PROPERTY SHOWN FOR DEVELOPMENT IS "O-I". ADJACENT PROPERTY ZONED AS SHOWN.
14. ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS. OUTLOT AREA TO BE KEPT FREE OF JOB TRAILERS AND STORAGE AFTER THE CONTRACT MILESTONE DATE FOR THE OUTLOT. WM GENERAL CONTRACTOR TO PROVIDE CLEAR ACCESS FOR OUTLOT CONTRACTOR TO THE SPECIFIC PARCEL AT ALL TIMES AFTER MILESTONE DATE. PURCHASER OF OUTLOT TO PROVIDE PERMIT DOCUMENTS AND SWPPP REQUIRED BY STATE/LOCAL REQUIREMENTS FOR SPECIFIC OUTLOT.

TRAIL NOTE

TRAIL ALIGNMENT SHOWN IS FOR BUILDING PURPOSES ONLY. BASIS OF TRAIL DESIGN HAS BEEN DEVELOPED BY USING SURVEYED TOPOGRAPHY, AND APPLYING DESIRED HIKING TRAIL DETAILS AND GRADIENTS. ALL LAYOUT AND FINAL TRAIL ALIGNMENTS TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION. SEE SHEET L-7 FOR MORE DETAIL.

LEGEND FOR PROPOSED IMPROVEMENTS

- PROPOSED BUILDING
- PROPOSED CURB AND GUTTER
- (5) PROPOSED PARKING SPACES
- STANDARD DUTY ASPHALTIC PAVEMENT
- PROPOSED TRAIL
- PROPOSED SIDEWALK

N

SITE PLAN

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED 7/1/22 No. 037720 PROFESSIONAL ENGINEER CHRISTOPHER L. MANES

GSWCC# 10882
EXP: 05/24/2024

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY	DMN
CHECKED BY	CLM
DATE:	01/07/2022
SCALE:	1"= 40'
JOB No.	20-LD-025 / 061694.00
SHEET NUMBER	C-1

20-LD-025 MAIN.DWG

USER: 6674 – Jan 07, 2022 – 4:28pm
Z:\All Project Data\Projects\2020\20-LD-025 Perimeter Center Park, Dunwoody, GA\LD\Production\Production Drawings\20-LD-025 MAIN.dwg – LAYOUT: C-1 VERSION: ----

GRADING/DRAINAGE PLAN LEGEND

- STORM SEWER PIPING
- JUNCTION BOX/STORM MANHOLE/UP-FLO FILTER
- DRAINAGE STRUCTURE INDICATOR
- SLOPE ARROW
- RIP-RAP APRON
- PRECAST HEADWALL STRUCTURE GDOT STD 1125 ENERGY DISSIPATER
- CURB INLET (W/ NON-MOUNTABLE HOOD & GRATE) GDOT STD 1019A TYPE "E"
- FLARED END SECTION GDOT STD 1120
- TC = TOP OF CURB
- TP = TOP OF PAVEMENT
- FG = FINISHED GRADE
- BIOSLOPE. SEE DETAIL SHEET.

* STRUCTURE TYPE

CURB INLET – GDOT STANDARD 1019A TYPE E. (SEE DETAIL SHEETS)
JUNCTION BOX – SEE DETAIL SHEETS.
HEADWALL – SEE DETAIL SHEETS.
FLARED END SECTION – SEE DETAIL SHEETS.
UP-FLO FILTER – SEE DETAIL SHEETS.

** PIPE TYPE

UNLESS A PIPE TYPE MATERIAL IS SPECIFIED IN THE DRAINAGE SCHEDULE, THE CONTRACTOR MAY USE AT HIS DISCRETION ANY OF THE PIPE MATERIALS LISTED AS APPROVED STORM PIPE MATERIALS IN THE SITE GRADING NOTES.

GRATED CURB INLET

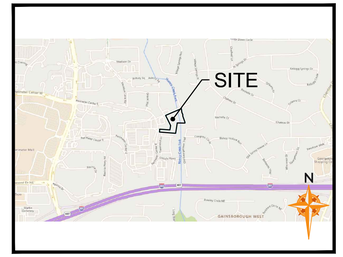
DEFINITION OF STRUCTURE ELEVATIONS

N.T.S. – SEE DETAIL SHEET FOR STRUCTURE DETAILS

MODIFIED CONCRETE WEIR WALL

N.T.S.

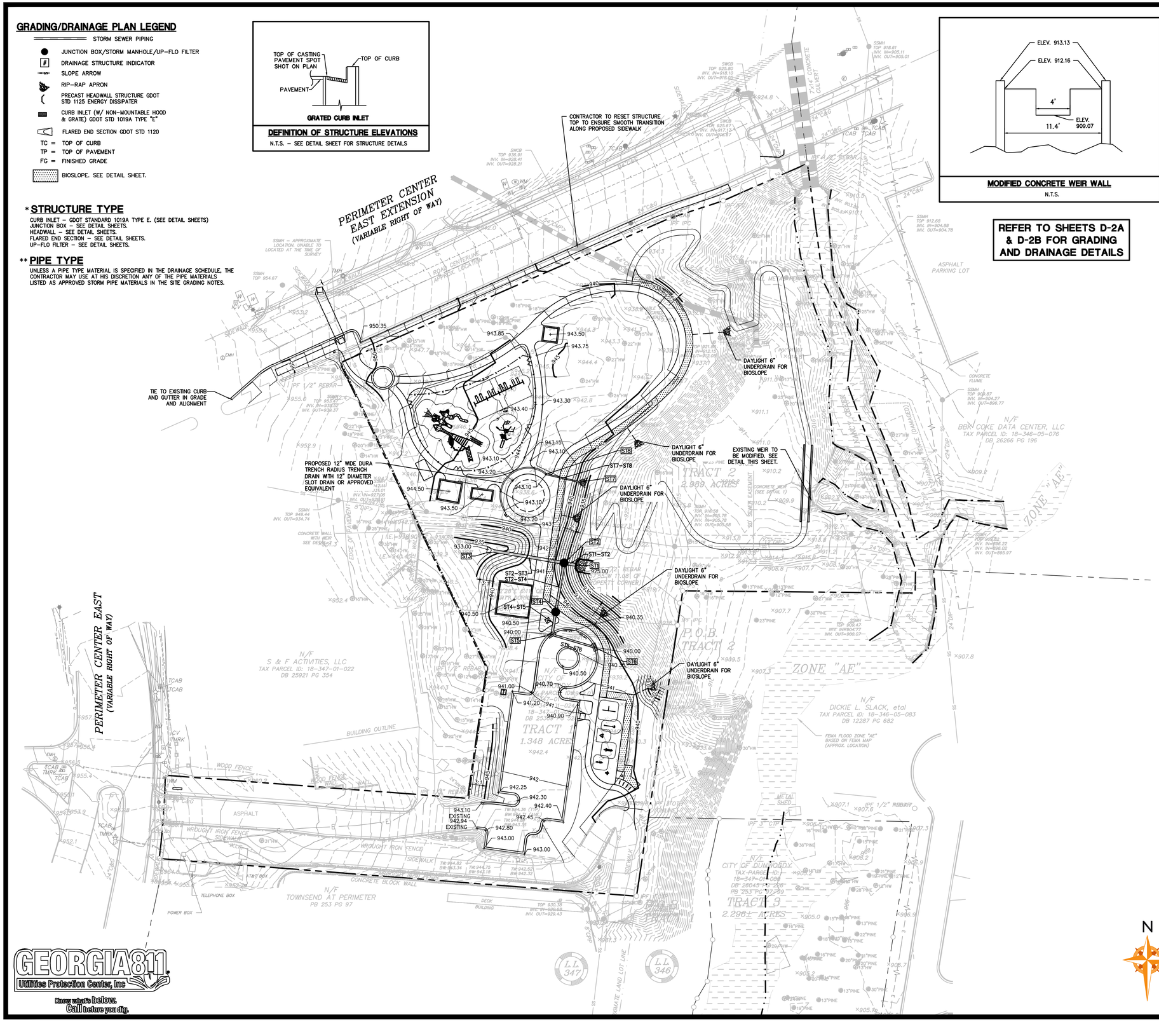
REFER TO SHEETS D-2A & D-2B FOR GRADING AND DRAINAGE DETAILS



LOCATION MAP
NOT TO SCALE

SITE GRADING NOTES

1. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF ALL EXISTING UTILITIES (ABOVE OR BELOW GROUND) AS SHOWN ON THESE PLANS ARE APPROXIMATE AND WERE LOCATED BASED ON EITHER VISUAL OBSERVATIONS AT THE SITE, EXISTING SURVEYS AND/OR FROM UTILITY OWNERS. CHA DOES NOT GUARANTEE THAT EXISTING UTILITY LOCATIONS SHOWN ARE EXACT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES (ABOVE OR BELOW GROUND) BEFORE BEGINNING ANY CONSTRUCTION. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANIES AND THE UTILITIES PROTECTION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY OWNER AND/OR ENGINEER OF ANY UTILITY CONFLICTS WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
3. ALL CUT OR FILL SLOPES SHALL BE 2:1 OR FLATTER UNLESS OTHERWISE NOTED.
4. PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
5. STORM PIPE TYPE AND JOINTS SHALL BE AS FOLLOWS:
   A. CONCRETE PIPE (RCP): ASTM C 76,
      - FOR FILLS LESS THAN 15 FEET OVER TOP OF PIPE: CLASS III OR GREATER SHALL BE USED
      - FOR FILLS 15 FEET TO 20 FEET OVER PIPE: CLASS IV OR GREATER SHALL BE USED.
      - FOR FILLS GREATER THAN 20 FEET OVER PIPE: CLASS V OR GREATER SHALL BE USED.
      - JOINT MATERIAL:
        a. RUBBER O-RING GASKET: AASHTO M 198, TYPE B OR ASTM C 443
        b. BITUMEN OR BUTYL-RUBBER SEALANT: ASTM C990. .
      - FLARED END SECTIONS: ASTM C 76 OR, FOR SECTIONS WITH TOE WALL, AASHTO M 170.
   B. HIGH DENSITY POLYETHYLENE PIPE (HDPE): AASHTO M 252 TYPE S, M 294 TYPE S, OR ASTM F 2306 SMOOTH INTERIOR/ANNULAR EXTERIOR.
      - JOINT MATERIAL:
        a. RUBBER GASKET.
           1) ADS N-12 WT BY ADVANCED DRAINAGE SYSTEMS, INC
           2) ADS N-12 ST BY ADVANCED DRAINAGE SYSTEMS, INC.
           3) BLUE SEAL BY HANCOR, INC.
           4) SURE-LOK BY HANCOR, INC.
        b. CORRUGATED COUPLING BANDS.
           1) HI-Q BY HANCOR, INC.
           2) ADS N-12 BY ADVANCED DRAINAGE SYSTEMS, INC.
        c. PE WRAP.
6. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
7. EXISTING GRADE CONTOUR SHOWN AT 1 FOOT INTERVALS.
8. PROPOSED GRADE CONTOUR SHOWN AT 1 FOOT INTERVALS.
9. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
10. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
11. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 12" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
12. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
13. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
14. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
15. TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY BY PLANNERS AND ENGINEERS COLLABORATIVE. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
16. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES AS INDICATED ON THE EROSION CONTROL PLANS. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH CITY SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
17. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
18. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT-IN TO INVERT-OUT.
19. CONTRACTOR TO CONTACT THE FIRE DEPARTMENT FOR BLASTING REQUIREMENTS.
20. WHERE ASPHALT OVERLAY IS SPECIFIED ON THE PLANS, THE CONTRACTOR SHALL PROVIDE LEVELING, WHERE NECESSARY, TO ACHIEVE THE PROPOSED GRADES SPECIFIED ON THE GRADING PLAN. THE CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID.
21. CONTRACTOR SHALL VERIFY BENCHMARKS PRIOR TO SETTING FINISHED GRADES.



N

GRADING PLAN

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED 1/1/22 No. 0037720 PROFESSIONAL ENGINEER CHRISTOPHER L. MANES

GSWCC# 10882
EXP: 05/24/2024

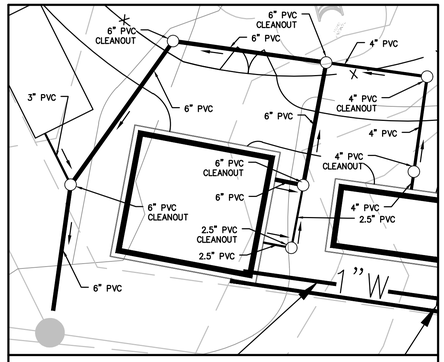
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY	DMN
CHECKED BY	CLM
DATE:	01/07/2022
SCALE:	1"= 40'
JOB No.	20-LD-025 / 061694.00
SHEET NUMBER	C-2

20-LD-025 MAIN.DWG

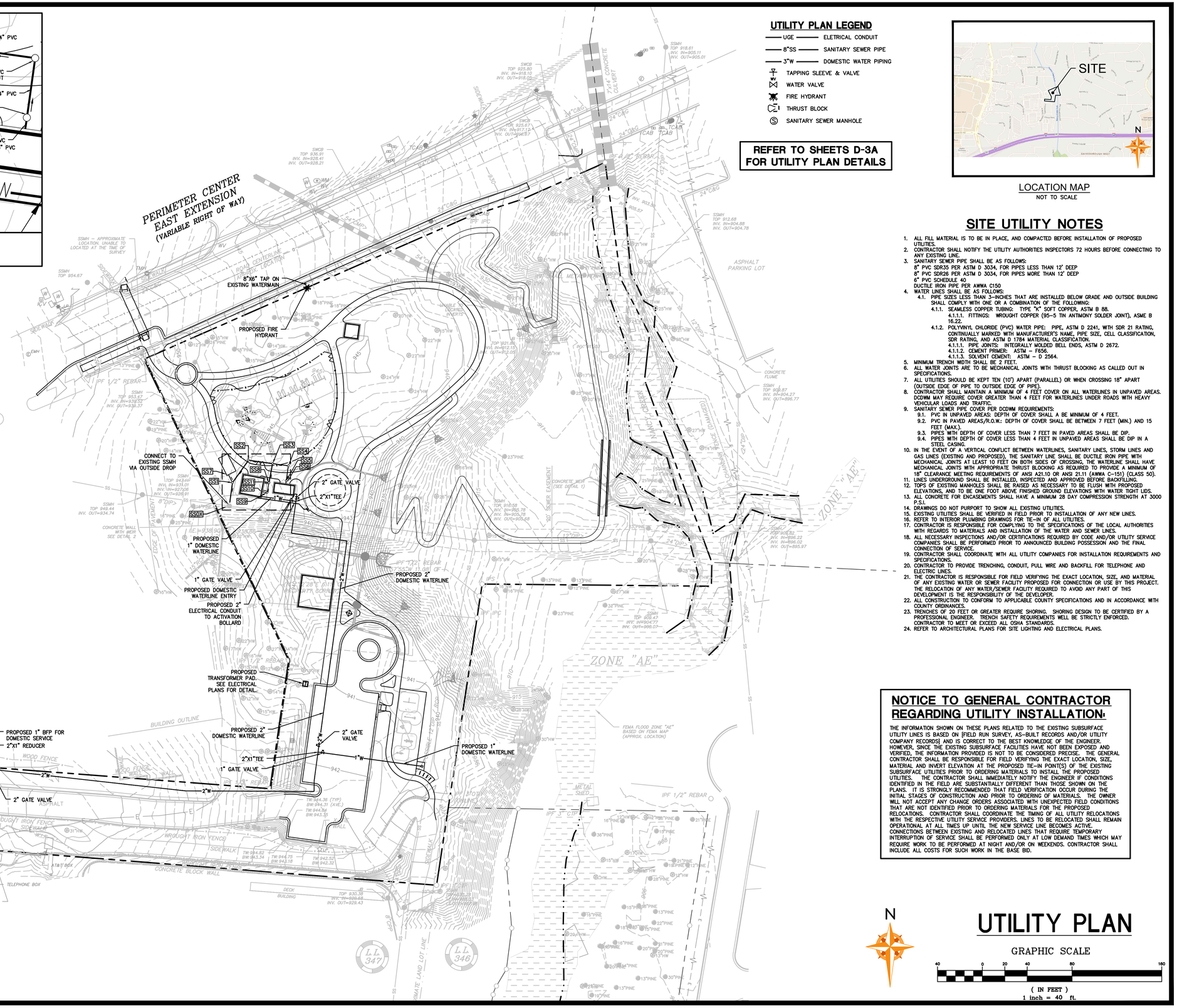
USER 6674 – Jan 07, 2022 – 4:28pm
Z:\All Project Data\Projects\2020\20-LD-025 Perimeter Center Park, Dunwoody, GA\LD\Production\Production Drawings\20-LD-025 MAIN.dwg – LAYOUT: C-2 VERSION: ----



SANITARY SEWER INSET
1"=10'

DEKALB COUNTY NOTES

1. ALL DESIGN AND CONSTRUCTION FOR WATER, SEWER, FIRE LINES, LIFT STATIONS AND BACKFLOW PREVENTION SHALL COMPLY WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT DESIGN STANDARD LATEST EDITION. ACTUAL FIELD CONDITIONS MAY DICTATE MORE STRINGENT REQUIREMENTS IF DEEMED NECESSARY BY THE CONSTRUCTION INSPECTOR.
2. DEVELOPER SHALL PROVIDE RECORD DRAWINGS "AS-BUILT PLANS" AND "FINAL PLANS" IN HARD COPY AND ELECTRONIC FORMAT, AS WELL AS, RECORD ALL EASEMENTS THAT WILL BE DEDICATED TO DEKALB COUNTY IN THE COURT HOUSE, PRIOR TO APPROVAL OF THE "AS-BUILT PLANS."
3. FIELD CHANGES DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW AND APPROVED BY THE DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT **BEFORE** CHANGES ARE IMPLEMENTED.
4. PROJECTS LOCATED WITHIN THE CITIES, THE DEVELOPER SHALL PROVIDE A MAINTENANCE BOND TO DEKALB COUNTY WATERSHED MANAGEMENT PRIOR TO APPROVAL OF AS-BUILT PLANS.
5. CONTRACTOR MUST JET CLEAN AND T.V. SANITARY SEWER AFTER ALL CONNECTIONS IS MADE TO THE EXISTING SEWER TIE-IN LOCATIONS. TRACER WIRE IS TO BE INSTALLED FOR ALL PVC PIPES.
6. WATER AND SEWER FEES NEED TO BE PAID UNDER THE FOLLOWING CIRCUMSTANCES:
   - 6.1. NEW CONSTRUCTION, RE-DEVELOPMENT, ADDITIONS, CHANGE OF USE, ETC.
   - 6.2. THESE FEES ARE TO BE PAID AT 330 WESST PONCE DE LEON AVE, 2ND FLOOR.
   - 6.3. FAILURE IN PAYMENT OF THESE FEES WILL RESULT IN POSTPONEMENT OF THE PLAN REVIEW PROCESS.
   - 6.4. CALL (404) 371-4918 FOR FEE CALCULATIONS OR ANY QUESTIONS.
7. CONTRACTOR TO NOTIFY THE DWM CONSTRUCTION INSPECTOR AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTIONS ACTIVITIES.
8. FIRE LINES, F.O.G., BACKFLOW PREVENTION AND LIFT STATIONS REQUIRE A SEPARATE REVIEW.
9. PROJECTS ENTERING A STATE OF GEORGIA CONTROLLED RIGHT-OF-WAY WILL REQUIRE GDOT PERMIT. ALL REQUIRED MATERIALS TO BE SUBMITTED TO DWM. REFER TO GDOT CHECKLIST FOR REQUIREMENTS.



UTILITY PLAN LEGEND

- UGE — ELETRICAL CONDUIT
- 8"SS — SANITARY SEWER PIPE
- 3"W — DOMESTIC WATER PIPING
- TAPPING SLEEVE & VALVE
- WATER VALVE
- FIRE HYDRANT
- THRUST BLOCK
- SANITARY SEWER MANHOLE

REFER TO SHEETS D-3A FOR UTILITY PLAN DETAILS

LOCATION MAP
NOT TO SCALE

SITE UTILITY NOTES

1. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
3. SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
   8" PVC SDR35 PER ASTM D 3034, FOR PIPES LESS THAN 12' DEEP
   8" PVC SDR26 PER ASTM D 3034, FOR PIPES MORE THAN 12' DEEP
   6" PVC SCHEDULE 40
   DUCTILE IRON PIPE PER AWWA C150
4. WATER LINES SHALL BE AS FOLLOWS:
   - 4.1. PIPE SIZES LESS THAN 3-INCHES THAT ARE INSTALLED BELOW GRADE AND OUTSIDE BUILDING SHALL COMPLY WITH ONE OR A COMBINATION OF THE FOLLOWING:
     - 4.1.1. SEAMLESS COPPER TUBING: TYPE "K" SOFT COPPER, ASTM B 88.
       - 4.1.1.1. FITTINGS: WROUGHT COPPER (95-5 TIN ANTIMONY SOLDER JOINT), ASME B 16.22.
     - 4.1.2. POLYVINYL CHLORIDE (PVC) WATER PIPE: PIPE, ASTM D 2241, WITH SDR 21 RATING, CONTINUALLY MARKED WITH MANUFACTURER'S NAME, PIPE SIZE, CELL CLASSIFICATION, SDR RATING, AND ASTM D 1784 MATERIAL CLASSIFICATION.
       - 4.1.1.1. PIPE JOINTS: INTEGRALLY MOLDED BELL ENDS, ASTM D 2672.
       - 4.1.1.2. CEMENT PRIMER: ASTM – F656.
       - 4.1.1.3. SOLVENT CEMENT: ASTM – D 2564.
5. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
6. ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT IN SPECIFICATIONS.
7. ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" APART (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
8. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4 FEET COVER ON ALL WATERLINES IN UNPAVED AREAS. DCDWM MAY REQUIRE COVER GREATER THAN 4 FEET FOR WATERLINES UNDER ROADS WITH HEAVY VEHICULAR LOADS AND TRAFFIC.
9. SANITARY SEWER PIPE COVER PER DCDWM REQUIREMENTS:
   - 9.1. PVC IN UNPAVED AREAS: DEPTH OF COVER SHALL A BE MINIMUM OF 4 FEET.
   - 9.2. PVC IN PAVED AREAS/R.O.W.: DEPTH OF COVER SHALL BE BETWEEN 7 FEET (MIN.) AND 15 FEET (MAX.).
   - 9.3. PIPES WITH DEPTH OF COVER LESS THAN 7 FEET IN PAVED AREAS SHALL BE DIP.
   - 9.4. PIPES WITH DEPTH OF COVER LESS THAN 4 FEET IN UNPAVED AREAS SHALL BE DIP IN A STEEL CASING.
10. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATERLINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATERLINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
11. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
12. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED ELEVATIONS, AND TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS.
13. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
14. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
15. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
16. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
17. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
18. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODE AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
19. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
20. CONTRACTOR TO PROVIDE TRENCHING, CONDUIT, PULL WIRE AND BACKFILL FOR TELEPHONE AND ELECTRIC LINES.
21. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE EXACT LOCATION, SIZE, AND MATERIAL OF ANY EXISTING WATER OR SEWER FACILITY PROPOSED FOR CONNECTION OR USE BY THIS PROJECT. THE RELOCATION OF ANY WATER/SEWER FACILITY REQUIRED TO AVOID ANY PART OF THIS DEVELOPMENT IS THE RESPONSIBILITY OF THE DEVELOPER.
22. ALL CONSTRUCTION TO CONFORM TO APPLICABLE COUNTY SPECIFICATIONS AND IN ACCORDANCE WITH COUNTY ORDINANCES.
23. TRENCHES OF 20 FEET OR GREATER REQUIRE SHORING. SHORING DESIGN TO BE CERTIFIED BY A PROFESSIONAL ENGINEER. TRENCH SAFETY REQUIREMENTS WELL BE STRICTLY ENFORCED. CONTRACTOR TO MEET OR EXCEED ALL OSHA STANDARDS.
24. REFER TO ARCHITECTURAL PLANS FOR SITE LIGHTING AND ELECTRICAL PLANS.

NOTICE TO GENERAL CONTRACTOR REGARDING UTILITY INSTALLATION:

THE INFORMATION SHOWN ON THESE PLANS RELATED TO THE EXISTING SUBSURFACE UTILITY LINES IS BASED ON [FIELD RUN SURVEY, AS-BUILT RECORDS AND/OR UTILITY COMPANY RECORDS] AND IS CORRECT TO THE BEST KNOWLEDGE OF THE ENGINEER. HOWEVER, SINCE THE EXISTING SUBSURFACE FACILITIES HAVE NOT BEEN EXPOSED AND VERIFIED, THE INFORMATION PROVIDED IS NOT TO BE CONSIDERED PRECISE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE EXACT LOCATION, SIZE, MATERIAL AND INVERT ELEVATION AT THE PROPOSED TIE-IN POINT(S) OF THE EXISTING SUBSURFACE UTILITIES PRIOR TO ORDERING MATERIALS TO INSTALL THE PROPOSED UTILITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IF CONDITIONS IDENTIFIED IN THE FIELD ARE SUBSTANTIALLY DIFFERENT THAN THOSE SHOWN ON THE PLANS. IT IS STRONGLY RECOMMENDED THAT FIELD VERIFICATION OCCUR DURING THE INITIAL STAGES OF CONSTRUCTION AND PRIOR TO ORDERING OF MATERIALS. THE OWNER WILL NOT ACCEPT ANY CHANGE ORDERS ASSOCIATED WITH UNEXPECTED FIELD CONDITIONS THAT ARE NOT IDENTIFIED PRIOR TO ORDERING MATERIALS FOR THE PROPOSED RELOCATIONS. CONTRACTOR SHALL COORDINATE THE TIMING OF ALL UTILITY RELOCATIONS WITH THE RESPECTIVE UTILITY SERVICE PROVIDERS. LINES TO BE RELOCATED SHALL REMAIN OPERATIONAL AT ALL TIMES UP UNTIL THE NEW SERVICE LINE BECOMES ACTIVE. CONNECTIONS BETWEEN EXISTING AND RELOCATED LINES THAT REQUIRE TEMPORARY INTERRUPTION OF SERVICE SHALL BE PERFORMED ONLY AT LOW DEMAND TIMES WHICH MAY REQUIRE WORK TO BE PERFORMED AT NIGHT AND/OR ON WEEKENDS. CONTRACTOR SHALL INCLUDE ALL COSTS FOR SUCH WORK IN THE BASE BID.

N

UTILITY PLAN

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED 1/1/22 No. 037720 PROFESSIONAL ENGINEER CHRISTOPHER L. MANES

GSWCC# 10882
EXP: 05/24/2024

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

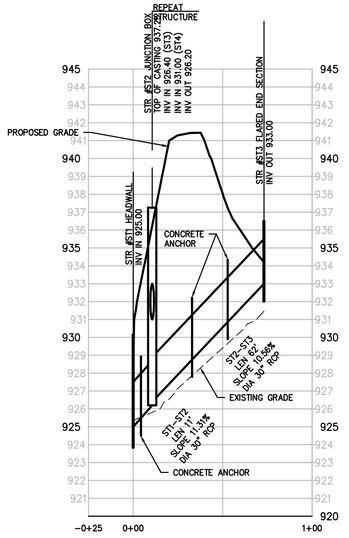
REVISIONS	BY

DRAWN BY: DMN
CHECKED BY: CLM
DATE: 01/07/2022
SCALE: 1"= 40'
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
C-3

20-LD-025 MAIN.DWG

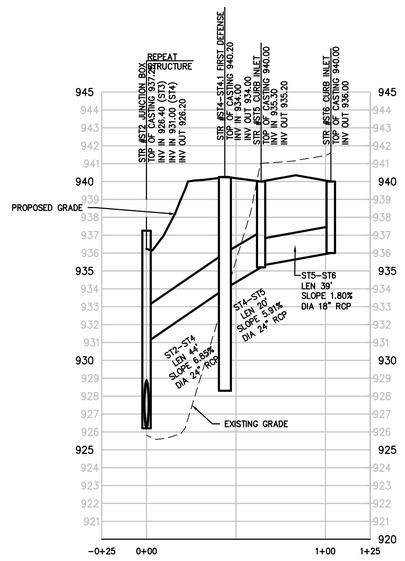
USER 6674 – Jan 07, 2022 – 5:35pm
Z:\All Project Data\Projects\2020\20-LD-025 Perimeter Center Park, Dunwoody, GA\LD\Production\Production Drawings\20-LD-025 MAIN.dwg – LAYOUT: C-3 VERSION: -----

STORM SEWER



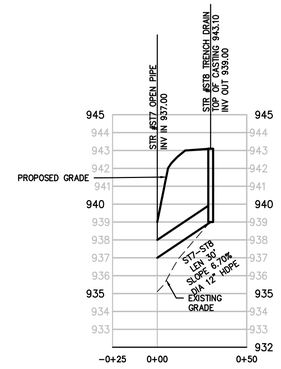
ST1 THRU ST3

scale: 1"=40' horizontal
1"=4' vertical



ST2 TO ST4 THRU ST6

scale: 1"=40' horizontal
1"=4' vertical



ST7 THRU ST8

scale: 1"=40' horizontal
1"=4' vertical

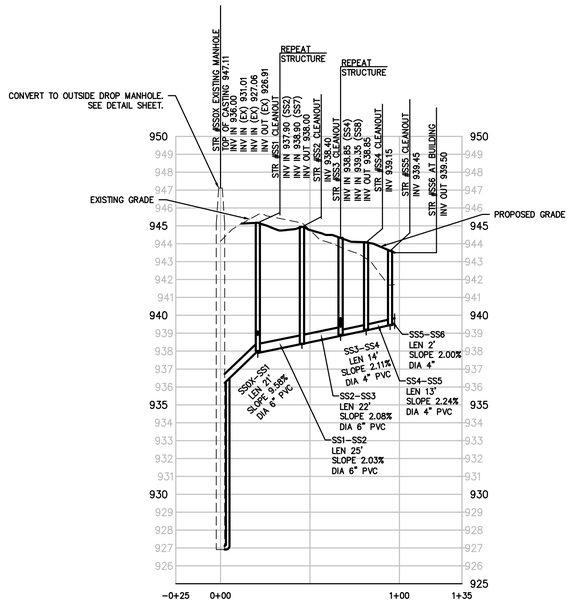
STRUCTURE TABLE

STRUCTURE #	STRUCTURE TYPE	TOP OF CASTING	INVERT OUT	INVERT IN
ST1	HEADWALL			925.00 (ST2)
ST2	JUNCTION BOX	937.25	926.20	926.40 (ST3) 931.00 (ST4)
ST3	FLARED END SECTION		933.00	
ST4	FIRST DEFENSE	940.25	934.00	934.00 (ST5)
ST5	CURB INLET	940.00	935.20	935.30 (ST6)
ST6	CURB INLET	940.00	936.00	
ST7	OPEN PIPE	938.75		937.00 (ST8)
ST8	TRENCH DRAIN		939.00	

PIPE TABLE

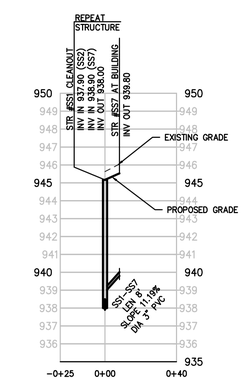
PIPE NAME	LENGTH	SIZE	SLOPE
ST1-ST2	11	30	11.31%
ST2-ST3	62	30	10.56%
ST2-ST4	44	24	6.85%
ST4-ST5	20	24	5.91%
ST5-ST6	39	18	1.80%
ST7-ST8	30	12	6.70%

SANITARY SEWER



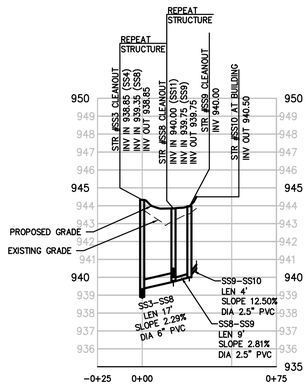
SS0X THRU SS6

scale: 1"=40' horizontal
1"=4' vertical



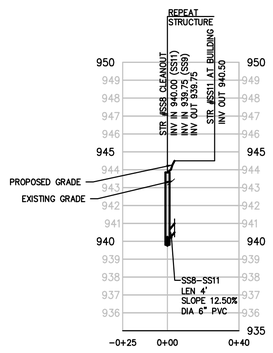
SS1 THRU SS7

scale: 1"=40' horizontal
1"=4' vertical



SS3 THRU SS10

scale: 1"=40' horizontal
1"=4' vertical



SS8 THRU SS11

scale: 1"=40' horizontal
1"=4' vertical

STRUCTURE TABLE

STRUCTURE #	STRUCTURE TYPE	TOP OF CASTING	INVERT OUT	INVERT IN
SS0X	EXISTING MANHOLE	947.11		936.00 (SS1)
SS1	CLEANOUT		938.00	937.90 (SS2) 938.90 (SS7)
SS2	CLEANOUT		938.40	938.40 (SS3)
SS3	CLEANOUT		938.85	938.85 (SS4) 939.35 (SS8)
SS4	CLEANOUT		939.15	939.15 (SS5)
SS5	CLEANOUT		939.45	939.45 (SS6)
SS6	AT BUILDING		939.50	
SS7	AT BUILDING		939.80	
SS8	CLEANOUT		939.75	940.00 (SS11) 939.75 (SS9)
SS9	CLEANOUT		940.00	940.00 (SS10)
SS10	AT BUILDING		940.50	
SS11	AT BUILDING		940.50	

PIPE TABLE

PIPE NAME	LENGTH	SIZE	SLOPE
SS0X-SS1	21	6	9.58%
SS1-SS2	25	6	2.03%
SS1-SS7	8	3	11.19%
SS2-SS3	22	6	2.08%
SS3-SS4	14	4	2.11%
SS3-SS8	17	6	2.29%
SS4-SS5	13	4	2.24%
SS5-SS6	2	4	2.00%
SS8-SS9	9	2.5	2.81%
SS8-SS11	4	6	12.50%
SS9-SS10	4	2.5	12.50%

NOTE
CONTRACTOR IS RESPONSIBLE FOR COMPARING THE STORM AND SANITARY SEWER SCHEDULES WITH THE PROFILES FOR THE STORM AND SEWER LINES AND INFORMING THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.

PROFILES AND TABLES

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED 7/1/22 No. 039720 PROFESSIONAL ENGINEER CHRISTOPHER L. MANES

GSWCC# 10882
EXP: 05/24/2024

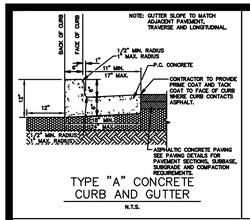
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: DMN
CHECKED BY: CLM
DATE: 01/07/2022
SCALE: 1"= 60'
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
PR-1

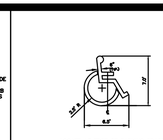
20-LD-025 MAIN.DWG

USER 6674 - Jan 07, 2022 - 4:52pm
Z:\All Project Data\Projects\2020\20-LD-025 Perimeter Center Park, Dunwoody, GA\LD\Production\Production Drawings\20-LD-025 MAIN.dwg - LAYOUT: PR-1 VERSION: ----



TYPE "A" CONCRETE CURB AND GUTTER

N.T.S.



LOCATE AT EDGE OF PARKING SPACE UNLESS ACCOMPANIED BY "VAN" LETTERING

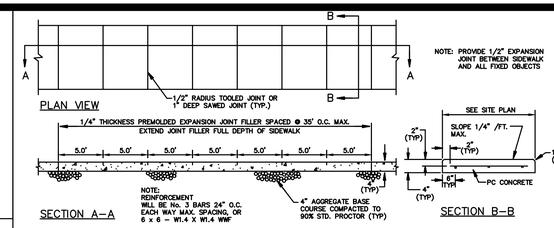
ACCESSIBLE PARKING SYMBOL

N.T.S.

NOTES:
1. BOTH SIGNS SHALL BE IN ACCORDANCE WITH THE LATEST MUTCD EDITION, WARNING SIGNS W11-2 (TOP) & W16-7P (BOTTOM) WITH A BLACK LEGEND ON A FLUORESCENT YELLOW-GREEN BACKGROUND

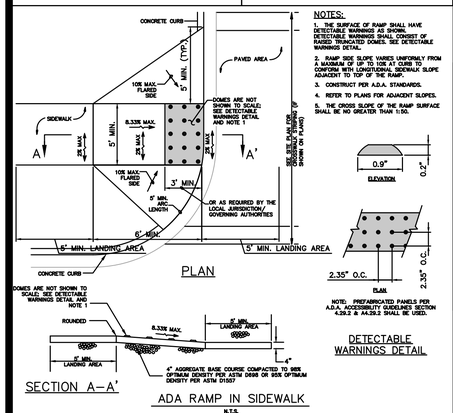
"PEDESTRIAN CROSSING" SIGN

N.T.S.



CONCRETE SIDEWALK

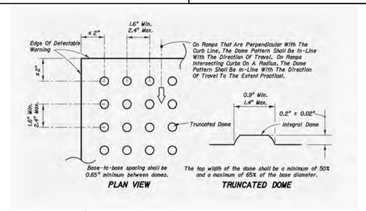
N.T.S.



DETECTABLE WARNINGS DETAIL

ADA RAMP IN SIDEWALK

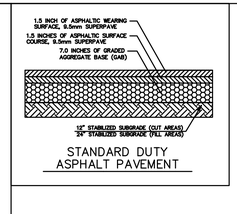
N.T.S.



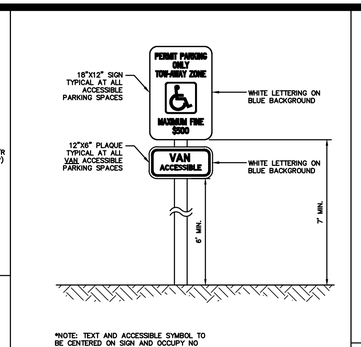
**PAD TO BE A MIN 24" WIDE INDIRECTION OF TRAVEL

ADA DETECTABLE WARNING PAD

N.T.S.



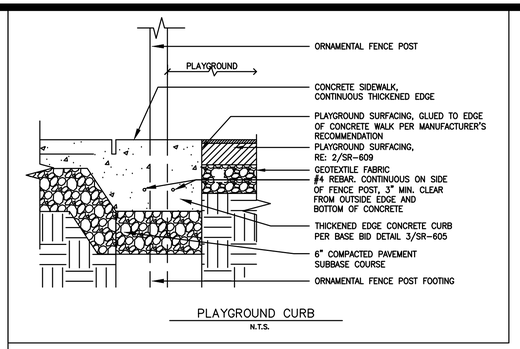
STANDARD DUTY ASPHALT PAVEMENT



*NOTE: TEXT AND ACCESSIBLE SYMBOL TO BE CENTERED ON SIGN AND OCCUPY NO LESS THAN 75% OF THE SURFACE AREA OF THE SIGN

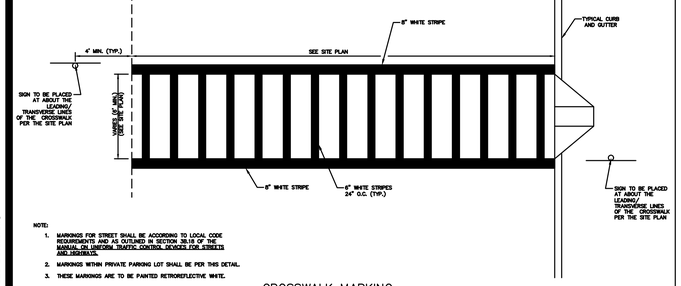
ACCESSIBLE PARKING SIGN

N.T.S.



PLAYGROUND CURB

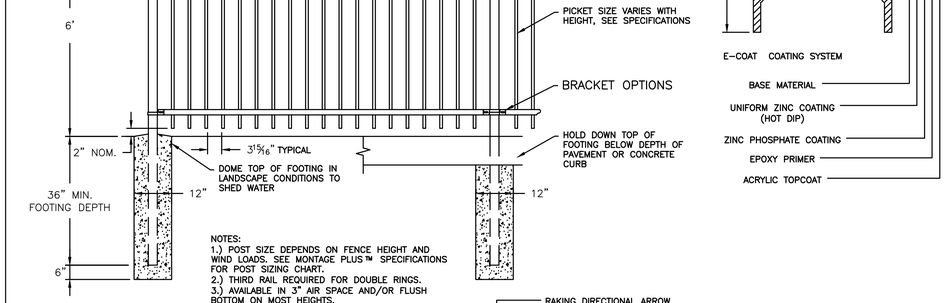
N.T.S.



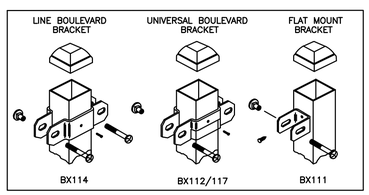
NOTE:
1. MARKINGS FOR STREET SHALL BE ACCORDING TO LOCAL CODE REQUIREMENTS AND AS OUTLINED IN SECTION 3B.18 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. MARKINGS WITHIN PRIVATE PARKING LOT SHALL BE PER THIS DETAIL.
3. THESE MARKINGS ARE TO BE PAINTED RETROREFLECTIVE WHITE.

CROSSWALK MARKING W/ LONGITUDINAL STRIPES

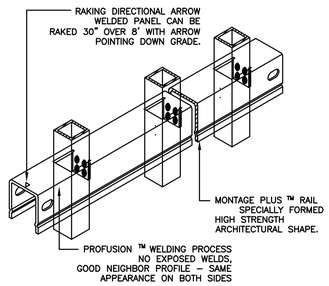
N.T.S.



NOTES:
1.) POST SIZE DEPENDS ON FENCE HEIGHT AND WIND LOADS. SEE MONTAGE PLUS™ SPECIFICATIONS FOR POST SIZING CHART.
2.) THIRD RAIL REQUIRED FOR DOUBLE RINGS.
3.) AVAILABLE IN 3" AIR SPACE AND/OR FLUSH BOTTOM ON MOST HEIGHTS.

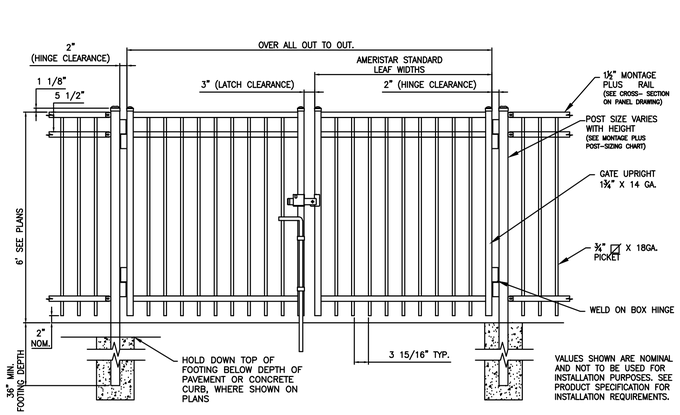


NOTE:
1. DETAILS ARE BASED ON AMERISTAR FENCE, MODEL 'MONTAGE PLUS MAJESTIC 2/3 RAIL', SEE SPECIFICATIONS FOR EQUALS.
2. SEE SITE PLAN FOR LOCATION AND LIMITS.
3. VALUES SHOWN ARE NOMINAL AND NOT TO BE USED FOR INSTALLATION PURPOSES.
4. SEE SPECIFICATIONS FOR INSTALLATION REQUIREMENTS.



ORNAMENTAL FENCE

N.T.S.



ORNAMENTAL GATE

N.T.S.

SITE PLAN DETAILS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED 1/1/22 No. 037720 PROFESSIONAL ENGINEER CHRISTOPHER L. MANES

GSWCC# 10882
EXP: 05/24/2024

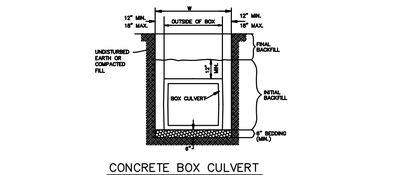
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

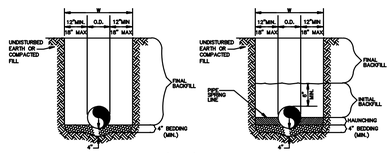
DRAWN BY DMN
CHECKED BY CLM
DATE: 01/07/2022
SCALE: NO SCALE
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
D-1A

20–LD–025 DETAILS.DWG

USER 6674 – Jan 07, 2022 – 4:30pm
Z:\All Project Data\Projects\2020\20-LD-025 Perimeter Center Park, Dunwoody, GA\LD\Production\Production Drawings\20-LD-025 Details.dwg



CONCRETE BOX CULVERT
N.T.S.



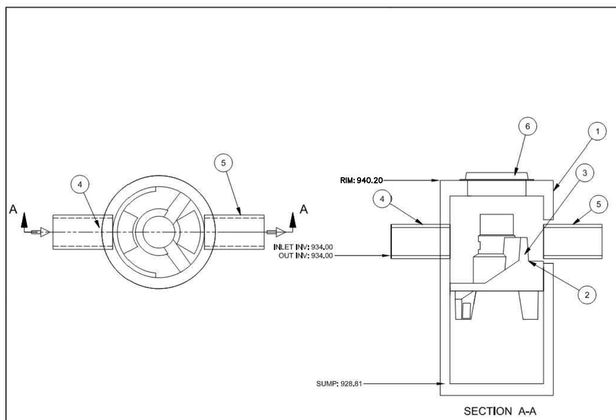
REINFORCED CONCRETE PIPE (RCP) AND SPIRAL RIB PIPE SMALLER THAN 60"ø
N.T.S.

ALL OTHER PIPES INCLUDING SPIRAL RIB PIPE 60"ø AND LARGER
N.T.S.

GENERAL NOTES

1. BEDDING SHALL BE CLASS I–A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I–B COMPACTED TO 95% STANDARD PROCTOR.
2. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I–A OR CLASS I–B OR CLASS II COMPACTED TO 95% PROCTOR.
3. INITIAL BACKFILL SHALL BE CLASS I–A WORKED BY HAND, OR CLASS I–B OR CLASS II COMPACTED TO 95% STANDARD PROCTOR.
4. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS II COMPACTED TO 90% STANDARD PROCTOR.
5. FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. AND 4.
6. FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV–A COMPACTED TO 85% STANDARD PROCTOR.
7. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321–LATEST EDITION.
8. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV–A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
9. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
10. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)

STORM SEWER TRENCH AND BEDDING
N.T.S.



SECTION A-A

Parts List		
ITEM	SIZE (in)	DESCRIPTION
1	60	I.D. PRECAST MANHOLE
2		LEDGER SUPPORT
3		SEPARATION MODULE
4	24	INLET PIPES ()
5	24	OUTLET PIPE ()
6	30	RING/COVER

Notes

1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.
2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.
3. CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

REV	BY	DATE	DESCRIPTION
	RC	1/14/15	FIRST ISSUE

REVISION HISTORY

Date 11-30-21		Scale 1/4" = 1'0"
Drawn MHM	Checked	Approved

Title

5-FT DIAMETER HIGH CAPACITY FIRST DEFENSE

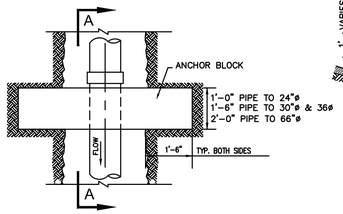
ST4

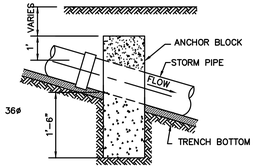
PERIMETER CENTER EAST PAR
DUNWOODY, GA

Hydro International

Stormwater Solutions
94 Hutchins Drive
Portland, Maine 04102
Tel: (207) 756-6200
Fax: (207) 756-6212
stormwaterinquiry@hydro-int.com

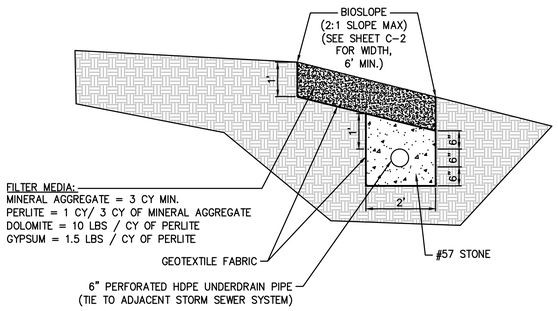
CAD Ref: F4HC-MAX
Project No. xx-xxxx
Drawing No. F4HCS1 Rev.





SECTION A-A
N.T.S.

CONCRETE ANCHOR FOR STORM OR SEWER PIPE
N.T.S.



BIOSLOPE CROSS SECTION
N.T.S.

GEOTECHNICAL NOTES:

SOIL MATERIALS

A. Satisfactory soil materials are defined as those complying with ASTM D2487 soil classification groups CL, ML, GC, SC, GW, GP, GM, SM, SW, and SP.

B. Unsatisfactory soil materials are defined as those complying with ASTM D2487 soil classification groups CH, OL, OH, MH, ML and PT.

C. Backfill and Fill Materials: Satisfactory soil materials free of clay, rock or gravel larger than 4 inches in any dimension (2 inches for material used in trench backfill), debris, waste, frozen materials, organics, vegetation and other deleterious matter. Fill material should be moisture conditioned to maintain a moisture content within 3 percentage points above and below the soil's optimum moisture content as determined by the standard Proctor test. Fill and backfill to be used onsite shall be evaluated and approved by a Geotechnical Engineer.

D. Imported material for structural fill shall comply with ASTM D2487 soil classification groups CL, ML, SC, SM or GW. Offsite borrow materials may be used as structural fill provided that they have a liquid limit (LL) and a plastic index (PI) not exceeding 40 and 20 percent, respectively and moisture conditioned to maintain a moisture content within three percentage points above and below the optimum moisture contents

2.2 BACKFILL AND FILL

A. Backfill excavations as promptly as work permits, but not until completion of the following:
1. Acceptance by Local authority having jurisdiction of construction below finished grade, including perimeter insulation.
2. Review, approval, and recording of the locations of underground utilities.
3. Removal of concrete formwork.
4. Removal of shoring and bracing (including backfilling of voids with satisfactory materials).
5. Removal of trash and debris from excavation.
6. Permanent or temporary horizontal bracing is in place on horizontally supported walls.

B. Place backfill on subgrades free of mud, frost, snow or ice.

C. Ground Surface Preparation: Remove vegetation, debris, obstructions, and deleterious materials from ground surface prior to placement of fills.

D. Bench sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material. Plow, scarify, bench or break up sloped surfaces flatter than 1 vertical to 4 horizontal so fill material will bond with existing material.

E. Place soil material in layers to required subgrade elevations, for each area classification listed below, using materials listed above.
1. Under grassed areas, use satisfactory excavated or borrow material.
2. Under walks, curbs, and pavements, use satisfactory excavated or borrow material.
3. Under building slabs, use satisfactory excavated or borrow materials and drainage/porous fill material as indicated.

2.3 UTILITY TRENCH BACKFILL

A. Place backfill on subgrades free of mud, frost, snow, or ice.

B. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits.

C. Backfill trenches with concrete where trench excavations pass within 18 inches of column or wall footings and that are carried below bottom of such footings or that pass under wall footings. Place concrete to level of bottom of adjacent footing.

D. Provide 4-inch- (100-mm-) thick, concrete-base slab support for piping or conduit less than 30 inches (750 mm) below surface of roadways. After installing and testing, completely encase piping or conduit in a minimum of 4 inches (100 mm) of concrete before backfilling or placing roadway subbase.

E. Place and compact initial backfill of satisfactory soil, free of particles larger than 1 inch (25 mm) in any dimension, to a height of 12 inches (300 mm) over the utility pipe or conduit.
1. Carefully compact initial backfill under pipe haunches and compact evenly up on both sides and along the full length of utility piping or conduit to avoid damage or displacement of piping or conduit. Coordinate backfilling with utilities testing.

F. Controlled Low-Strength Material: Place initial backfill of controlled low-strength material to a height of 12 inches (300 mm) over the utility pipe or conduit.

G. Backfill voids with satisfactory soil while installing and removing shoring and bracing.

H. Place and compact final backfill of satisfactory soil to final subgrade elevation.

I. Controlled Low-Strength Material: Place final backfill of controlled low-strength material to final subgrade elevation.

J. Install warning tape directly above utilities, 12 inches (300 mm) below finished grade, except 6 inches (150 mm) below subgrade under pavements and slabs.

K. Do not backfill trenches until any required testing and inspections have been completed and Owner's Geotechnical Engineer and authority having jurisdiction authorizes backfilling. Backfill carefully to avoid damage or displacement of pipe systems.

L. Under piping and conduit and equipment, use crushed stone where required over rock bearing surface and for correction of unauthorized excavation. Shape excavation bottom to fit bottom 90 degrees of cylinder.

M. Place backfill and fill materials evenly adjacent to structures, piping, or conduit to required elevations. Prevent wedging action of backfill against structures or displacement of piping or conduit by carrying material uniformly around structure, piping, or conduit to approximately same elevation in each lift.

2.4 SOIL MOISTURE CONTROL

A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 3 percentage points of optimum moisture content as determined by the standard proctor test (ASTM D-698).
1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
2. Remove and replace, or scarify and air dry otherwise satisfactory soil material that exceeds optimum moisture content by 3 percentage points and is too wet to compact to specified dry unit weight.

B. Moisture Control: Where subgrade or layer of soil material must be moisture conditioned before compaction, uniformly apply water to surface of subgrade or layer of soil material. Apply water in minimum quantity as necessary to prevent free water from appearing on surface during or subsequent to compaction operations. Maintain the moisture content of the particular fill materials to within 3 percentage points of the optimum moisture content until permanently covered.

C. Remove and replace, or scarify and air dry, soil material that is too wet to permit compaction to required density.
1. Stockpile or spread soil material that has been removed because it is too wet to permit compaction. Assist drying by discing, harrowing, or pulverizing until moisture content is reduced to a satisfactory value.
2. Work wet materials as directed by the Owner's Geotechnical Engineer. Base bids on working material daily for a maximum of five days of acceptable weather.
3. No additional payment will be made for these operations.
4. Time extensions will not be granted for working wet material on site.

2.5 COMPACTION OF SOIL BACKFILL AND FILLS

A. Place backfill and fill materials in layers not more than 8 inches in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches in loose depth for material compacted by hand-operated tampers.

B. Before compaction, moisten or aerate each layer as necessary to provide optimum moisture content. Compact each layer to required percentage of maximum dry density or relative dry density for each area classification. Do not place backfill or fill material on surfaces that are muddy, frozen, or contain frost or ice.

C. Control soil and fill compaction, providing minimum percentage of density indicated for each area classification indicated below. Correct improperly compacted areas or lifts as directed by Engineer if soil density tests indicate inadequate compaction.

D. Percentage of Maximum Density Requirements: Compact soil to not less than the following percentages of maximum density at a moisture content within 3 percentage points of optimum in accordance with ASTM D698:
1. Building Areas – Compact the fill to 98 percent of the soil's maximum standard Proctor density value (ASTM D-698). In cut areas, the subgrade should be proofrolled and if found unstable, it should be scarified and re-compacted to 98 percent of the soil's maximum standard Proctor density value. Field density testing frequency should be performed as one test per lift for every 2,500 square feet.
2. Pavement Areas – Compact the upper 12 inches of subgrade in fill areas and the upper 12 inches in cut areas to 98 percent of the soil's maximum standard Proctor density value (ASTM D-698) and 95 percent of the soil's maximum standard Proctor density value below this level. Field density testing should be performed as one test per lift for every 2,500 square feet.
3. Under grass or unpaved areas, compact each layer of backfill or fill material at 95 percent maximum density.

E. Seal all fill areas at the end of each working day, utilizing a smooth drum roller.

2.6 PAVEMENT SUBBASE COURSE:

A. General: Place subbase material, in layers of indicated thickness, over subgrade surface to support a pavement base course.

B. Grade Control: During construction, maintain lines and grades including crown and cross-slope of subbase course.

C. Shoulders: Place shoulders along edges of subbase course to prevent lateral movement. Construct shoulders of acceptable soil materials, placed in such quantity to compact to thickness of each subbase course layer. Compact and roll at least at 12" width of shoulder simultaneously with compacting and rolling each layer of subbase course.

D. Placing: Place subbase course material on prepared subgrade in layers of uniform thickness, conforming to indicated cross-section and thickness. Maintain optimum moisture content for compacting subbase material during placement operations.

E. When a compacted subbase course is 6" thick or less, place material in a single layer. When more than 6" thick, place material in equal layers, except no single layer more than 6" or less than 3" in thickness when compacted.

F. Place subbase and base course on subgrades free of mud, frost, snow, or ice.

G. On prepared subgrade, place subbase and base course under pavements and walks as follows:
1. Place base course material over subbase course under hot-mix asphalt pavement.
2. Shape subbase and base course to required crown elevations and cross-slope grades.
3. Place subbase and base course 6 inches (150 mm) or less in compacted thickness in a single layer.
4. Place subbase and base course that exceeds 6 inches (150 mm) in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches (150 mm) thick or less than 3 inches (75 mm) thick.
5. Compact subbase and base course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 95 percent of maximum dry unit weight according to ASTM D 698.

H. Pavement Shoulders: Place shoulders along edges of subbase and base course to prevent lateral movement. Construct shoulders, at least 12 inches (300 mm) wide, of satisfactory soil materials and compact simultaneously with each subbase and base layer to not less than 95 percent of maximum dry unit weight according to ASTM D 698.

2.7 BUILDING SLAB DRAINAGE COURSE

A. General: Place drainage/porous fill material, over subgrade surface to support concrete building slabs and sidewalks areas indicated.

B. Place drainage course on subgrades free of mud, frost, snow, or ice.

C. Placing: Place drainage/porous fill material on prepared subgrade in layers of uniform thickness, conforming to indicated cross-section and thickness. Maintain optimum moisture content for compacting material during placement operations.

D. When a compacted drainage course is indicated to be 6 inches thick or less, place material in a single layer. When indicated to be more than 6 inches thick, place material in equal layers, except no single layer more than 6 inches or less than 3 inches in thickness when compacted.

2.8 FIELD QUALITY CONTROL

A. Quality Control Testing During Construction: Allow testing service to inspect and approve each subgrade and fill layer before further backfill or construction work is performed.
1. If in the opinion of the Owner's Geotechnical Engineer based on testing service reports and inspection, subgrade or fills have been placed that are below required density, perform additional compaction and testing until required density is obtained.

B. The Owner will engage, and pay for, the services of a Geotechnical Engineer whose function shall be to afford complete engineering control by testing of the conditions of all footing subgrades, the placement of all structural fills under structures, building pad and pavement areas, and all compaction where required, and to observe the proof rolling of the building pad and pavement areas.

C. The Owner's Geotechnical Engineer will be present as deemed necessary during all phases of the Work requiring filling, compaction operations or testing. The Geotechnical Engineer will provide the Engineer with written certification that fill and compaction was completed with accepted materials in accordance with the Documents, and give a professional opinion regarding shrinkage or settlement of fill and safe load bearing capacity of fill.

D. Site Preparation and Proofrolling: The Owner's Geotechnical Engineer will determine if any additional excavation or in-place densification is necessary to prepare a subgrade for fill placement for slab or pavement support.

E. Fill Placement and Compaction: The Owner's Geotechnical Engineer will witness all fill operations and take sufficient in-place density tests to verify that the indicated degree of fill compaction is achieved. The Owner's Geotechnical Engineer will observe and approve borrow materials used and shall determine if their existing moisture contents are suitable/acceptable.

F. Footing Excavation Review: The Owner's Geotechnical Engineer will review the footing excavations for the building foundations. He will verify that the design bearing pressures are available and that no loose or soft areas exist beneath the bearing surfaces of the footing excavations.

G. The Owner's Geotechnical Engineer will submit two (2) copies each of his reports, recommendations and/or opinions to the Architect/Engineer and the Owner. Pertinent information will be provided to the Contractor as required.

GRADING AND DRAINAGE DETAILS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED 1/1/22 No. 037720 PROFESSIONAL ENGINEER CHRISTOPHER L. MANES

GSWCC# 10882
EXP: 05/24/2024

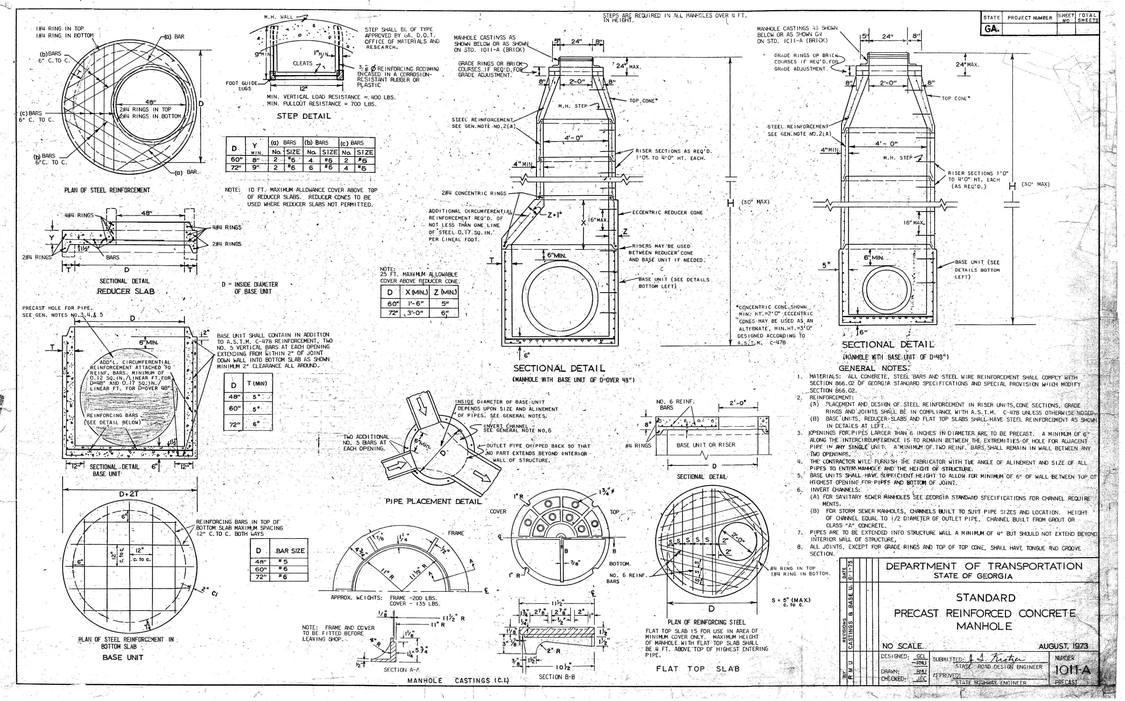
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

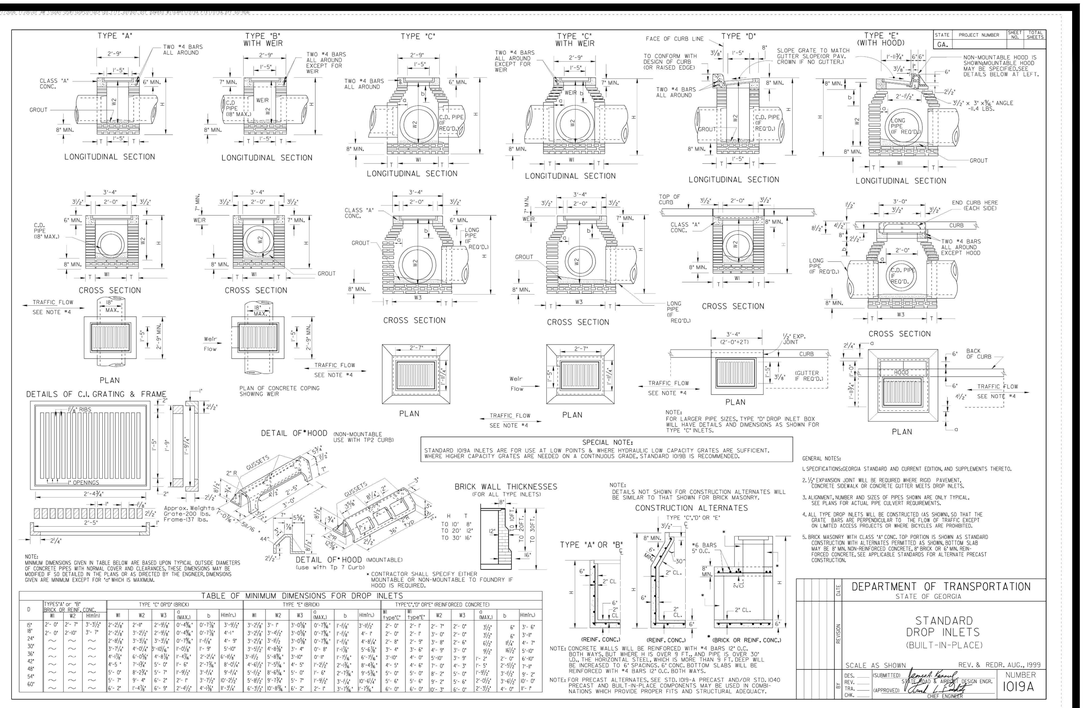
REVISIONS	BY

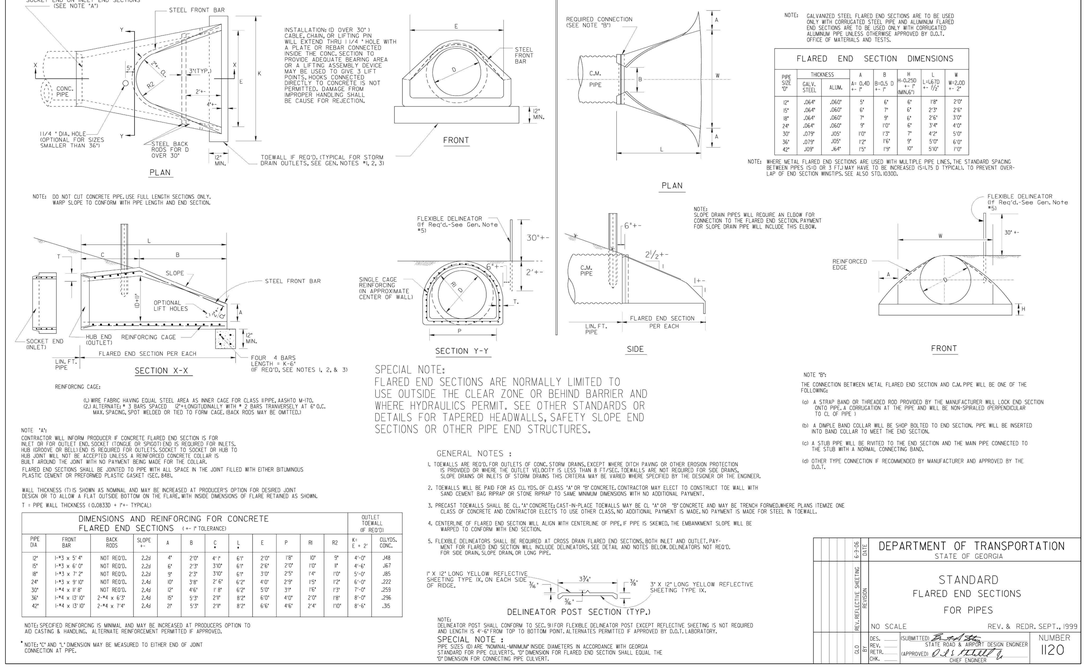
DRAWN BY: DMN
CHECKED BY: CLM
DATE: 01/07/2022
SCALE: NO SCALE
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
D-2A

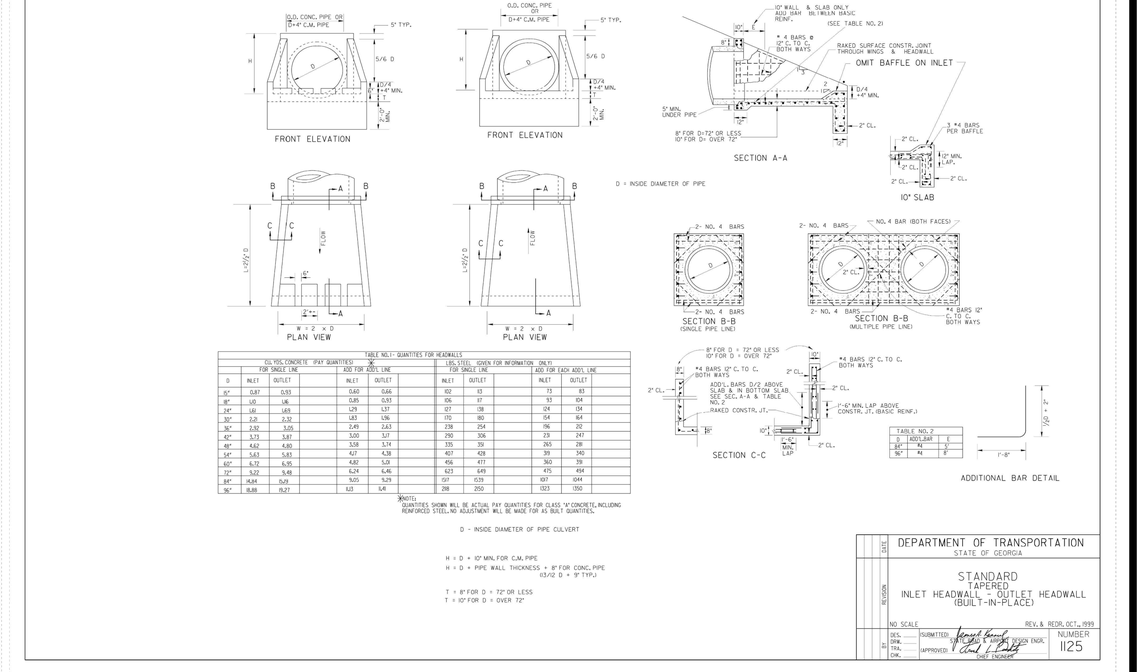
20–LD–025 DETAILS.DWG

USER 6674 – Jan 07, 2022 – 4:30pm
Z:\All Project Data\Projects\2020\20–LD–025 Perimeter Center Park, Dunwoody, GA\LD\Production\Production Drawings\20–LD–025 Details.dwg









CLA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GSWCC# 10882
EXP: 05/24/2024

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

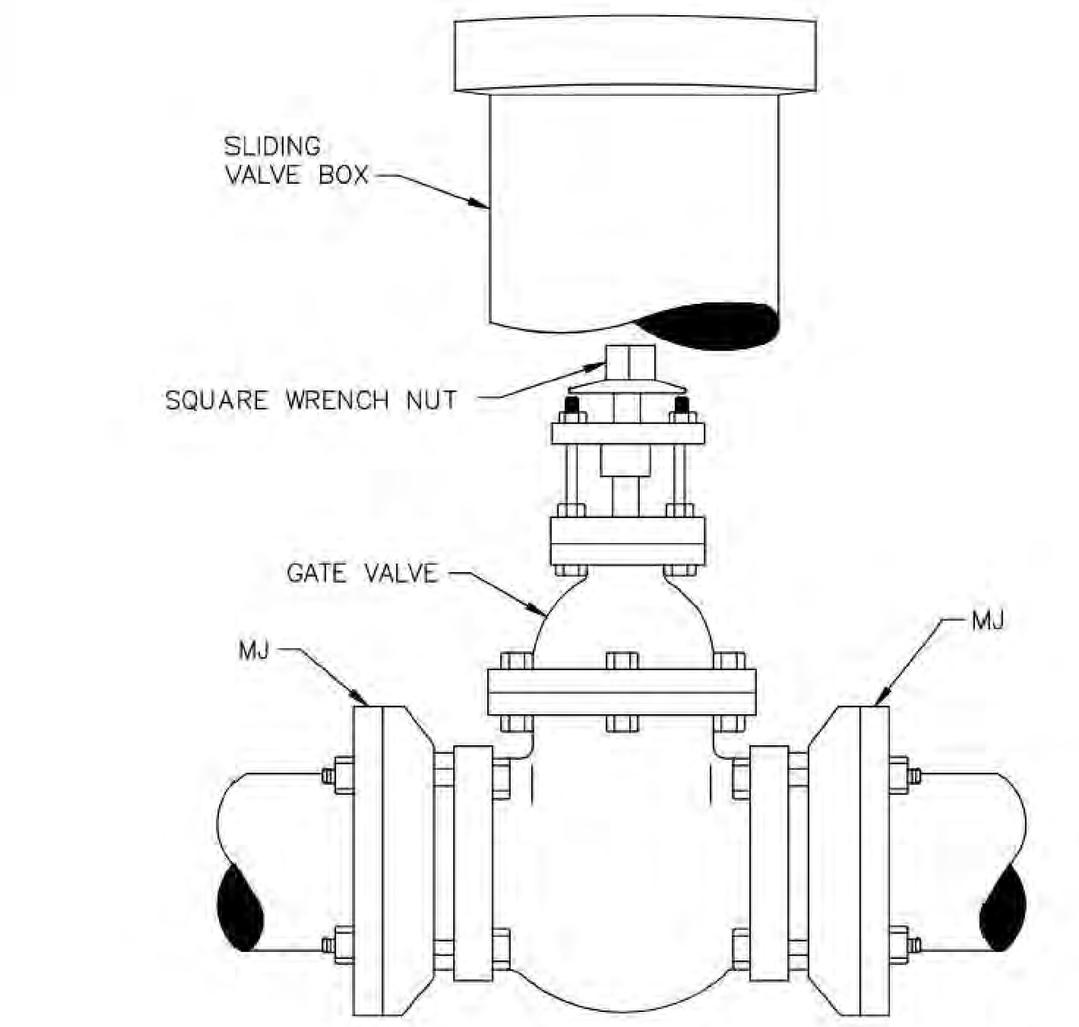
REVISIONS	BY

DRAWN BY	DMN
CHECKED BY	CLM
DATE:	01/07/2022
SCALE:	NO SCALE
JOB No.	20-LD-025 / 061694.00
SHEET NUMBER	D-2B

GRADING AND DRAINAGE DETAILS

USER 6674 – Jan 07, 2022 – 4:30pm
Z:\All Project Data\Projects\2020\20-LD-025 Perimeter Center Park, Dunwoody, GA\LD\Production\Production Drawings\20-LD-025 Details.dwg

20-LD-025 DETAILS.DWG

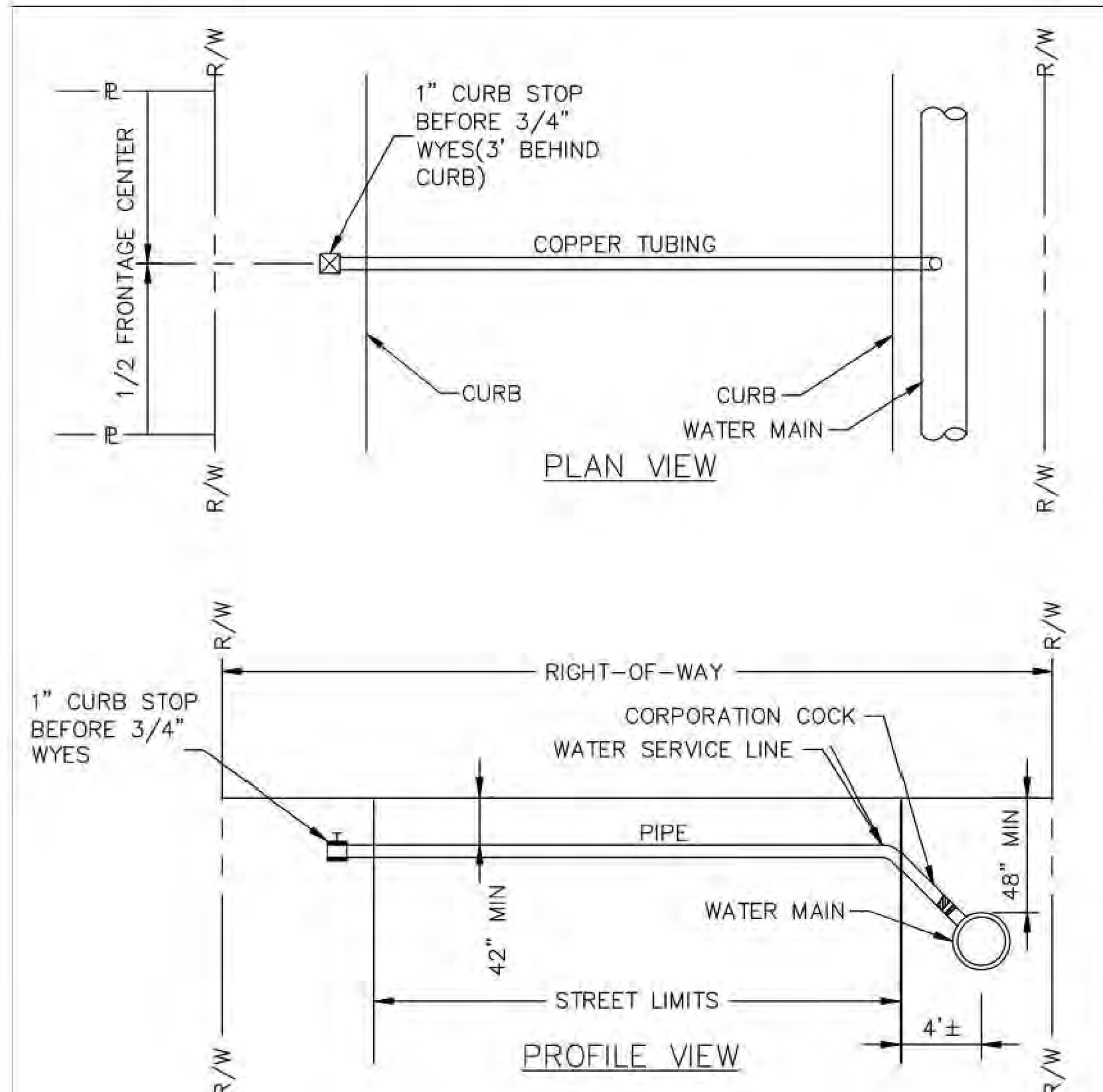


STANDARD DETAILS

Typical Gate Valve Installation

NOT TO SCALE

DeKalb County GEORGIA | WATER Matters | 09/17 | DETAIL NO. W-007



NOTES:

1. SERVICE LINES 1 INCH AND SMALLER SHALL BE INSTALLED USING COPPER TUBING WITH FLARE X MIPT.
2. LARGER SERVICE LINE MATERIAL SHALL BE AS SPECIFIED ON THE DRAWING, AND REQUIRES COUNTY APPROVAL.

STANDARD DETAILS

Typical Service Line Installation

NOT TO SCALE

DeKalb County GEORGIA | WATER Matters | 09/17 | DETAIL NO. W-008

MINIMUM CONTAINMENT PROTECTION REQUIREMENT
NEW CONSTRUCTION AND RETROFIT INSTALLATIONS
SERVICE SIZE: ¾ INCH THRU 2 INCH METER SIZE: THRU ¾ INCH THRU 2 INCH
DOUBLE CHECK VALVE ASSEMBLY (DC)

SPECIFICATION: THE CUSTOMER/OWNER SHALL FURNISH AND INSTALL A DOUBLE CHECK (DC) VALVE BACKFLOW PREVENTION ASSEMBLY (BFP) IN A SIZE TO MATCH THAT OF THE REQUIRED SERVICE LINE CONNECTION. THE DC BFP ASSEMBLY SHALL INCLUDE A FULL PORT BALL VALVE ON THE INLET AND OUTLET SIDES WITH A UNION OR SWIVLE COUPLING NUT BETWEEN THE ASSEMBLY AND EACH VALVE. THE ASSEMBLY SHALL HAVE THREE BALL VALVE TEST COCKS IN THE VERTICAL POSITION FITTED WITH BRASS OR PLASTIC THREADED PLUGS. A FOURTH TEST COCK SHALL ALSO BE PROVIDED ON THE UPSTREAM SIDE OF THE INLET SHUT OFF VALVE.

NOTE: ALL COMPONENTS OF THE ASSEMBLY SHALL BE CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY. THE DC BFP ASSEMBLY SHALL HAVE APPROVAL AND CONFORM TO ALL CURRENT REQUIREMENTS OF THE UNIVERSITY OF SOUTHERN CALIFORNIA, FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC-FCCCHR). ASSEMBLY TO BE INDIVIDUALLY FACTORY TESTED, SHIPPED AND INSTALLED AS A UNIT.

INSTALLATION INSTRUCTIONS: THE DC BFP ASSEMBLY SHALL NOT BE BURIED IN EARTH. INSTALL IN A UTILITY BOX ADJACENT TO OR AS CLOSE AS PRACTICAL TO THE PROPERTY LINE OF THE PREMISES TO THE DOWNSTREAM SIDE OF THE WATER METER, AND OUT OF RIGHT OF WAY. THE DC BFP ASSEMBLY MUST BE CENTERED IN THE ENCLOSURE.

NOTE: UNDER NO CIRCUMSTANCES WILL A BY-PASS OR ANY INTERVENING CONNECTION BE ALLOWED BETWEEN THE WATER METER AND THE DC BFP USED FOR SYSTEM PROTECTION UNLESS THAT CONNECTION IS PROTECTED BY AN APPROVED BFP. AT THE BOTTOM, SEE EXCERPT FROM STATE OF GEORGIA PLUMBING CODE ON THERMAL EXPANSION.

APPROVED UTILITY BOXES (OR EQUIVALENT):

CARSON INDUSTRIES MODEL NUMBER 1324CP2PGWL
CDR SYSTEM CORP. MODEL NUMBER WA101324-18
BROOKS PRODUCTS, INC. MODEL NUMBER 1324

NOTE: DOMESTIC DC-BFPAS SHALL BE LEAD FREE

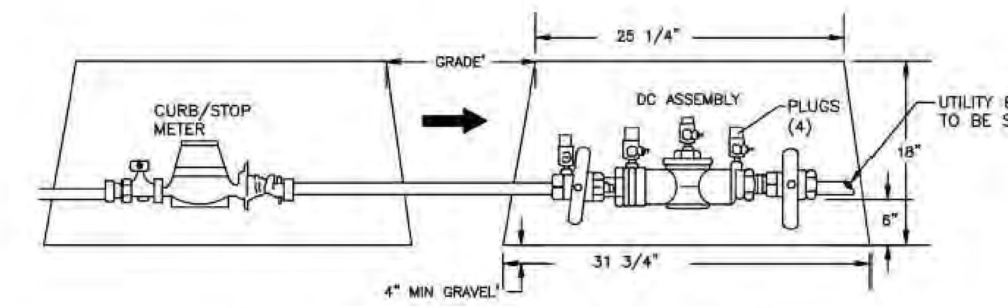
ASSEMBLY TESTING: ALL DC BFP'S SHALL BE FIELD TESTED FOLLOWING INSTALLATION, REPAIR, RELOCATION, AND AT LEAST ANNUALLY THEREAFTER.

PLAN APPROVAL AND INSPECTION: PLAN APPROVAL MUST BE OBTAINED AND INSPECTION SCHEDULED PRIOR TO WORK, THROUGH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT. CONTACT CROSS CONNECTION CONTROL SECTION AT (404) 687-4075 FOR BACKFLOW INSPECTION PRIOR TO INSTALLATION.

APPROVED ASSEMBLYS (OR EQUIVALENT):

ARI	DC 500	¾", 1", 1¼", 1½", 2"
CONBRACO	DCLF4A	¾", 1", 1¼", 1½", 2"
FEBCO	LF850	¾", 1", 1¼", 1½", 2"
WATTS	LF007	¾", 1", 1½", 2"
WILKINS	350XL	¾", 1", 1¼", 1½", 2"

TYPICAL DC BFP INSTALLATION IN A UTILITY BOX



NOTE: FOR FINAL APPROVAL ASSEMBLY MUST BE CENTERED IN UTILITY BOX.

****** SPECIAL CAUTION ******

2006 INTERNATIONAL PLUMBING CODE ADOPTED AS THE STATE OF GEORGIA PLUMBING CODE (WITH CURRENT AMENDMENTS)

CAUTION SECTION 607.3 THERMAL EXPANSION CONTROL: A MEAN OF CONTROLLING INCREASED PRESSURE CAUSED BY THERMAL EXPANSION SHALL BE PROVIDED WHERE REQUIRED, IN ACCORDANCE WITH SECTION 607.3.2.

SECTION 607.3.1 PRESSURE REDUCING VALVE: FOR WATER SERVICE SYSTEM SIZES UP TO AND INCLUDING 2 INCHES (51 MM), An ASSEMBLY FOR CONTROLLING PRESSURE SHALL BE INSTALLED WHERE, BECAUSE OF THERMAL EXPANSION, THE PRESSURE ON THE DOWNSTREAM SIDE OF THE PRESSURE REDUCING VALVE EXCEED THE PRESSURE REDUCING VALVE SETTING.

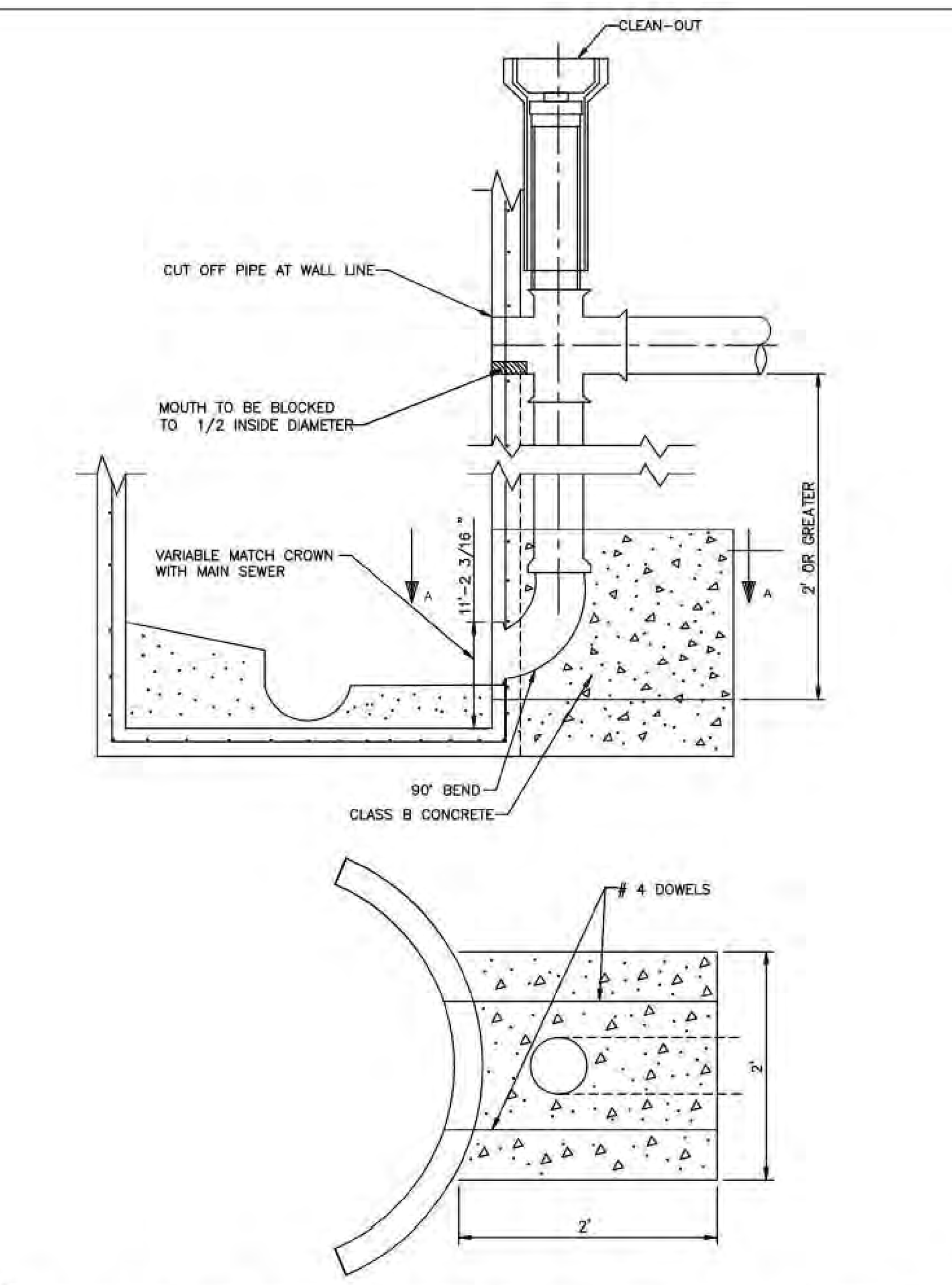
SECTION 607.3.2 BACKFLOW PREVENTION ASSEMBLY OR CHECK VALVE: WHERE A BACKFLOW PREVENTION ASSEMBLY, CHECK VALVE OR OTHER DRVICE IS INSTALLED ON A WATER SUPPLY SYSTEM UTILIZING STORAGE WATER HEATING EQUIPMENT SUCH THAT THERMAL EXPANSION CAUSES AN INCREASE IN PRESSURE, A DEVICE FOR CONTROLLING PRESSURE SHALL BE INSTALLED.

STANDARD DETAILS

DC BFP Installation 3/4 Inch To 2 Inch

NOT TO SCALE

DeKalb County GEORGIA | WATER Matters | 09/17 | DETAIL NO. W-014



NOTES:

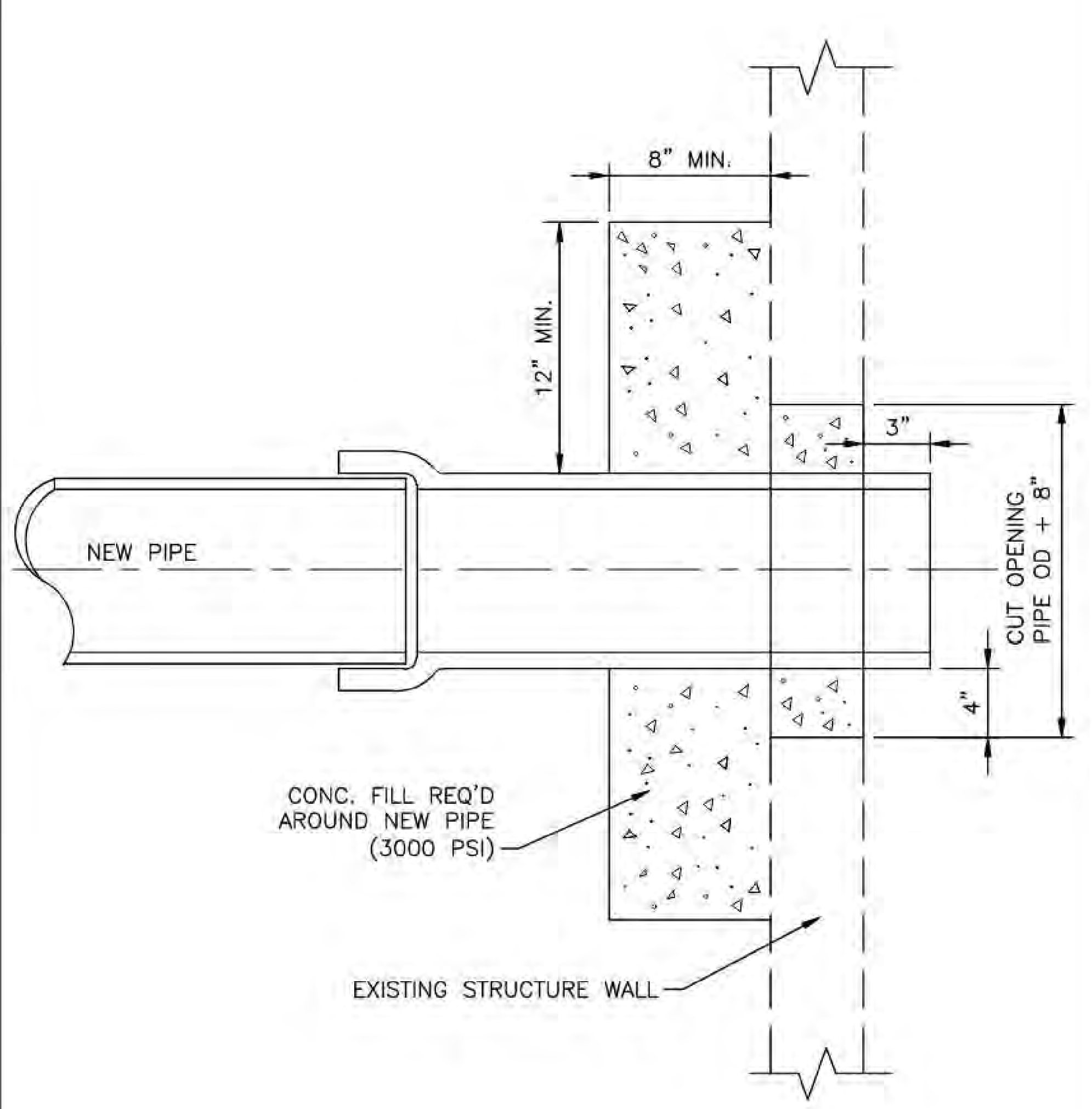
1. "DROP CONNECTION" SHALL INCLUDE THE EXCAVATION, MH CORE, CONCRETE, DIP, FITTINGS AND OTHER INCIDENTALS NECESSARY TO COMPLETE THE ITEM. DUCTILE IRON PIPE (18" MIN) INSTALLED UPSTREAM OF THE TEE.
2. ALL BENDS, TEES, AND FITTINGS REQUIRED TO INSTALL OUTSIDE DROP SHALL BE DUCTILE IRON.

STANDARD DETAILS

Outside Drop Connection For Precast Manhole

NOT TO SCALE

DeKalb County GEORGIA | WATER Matters | 09/17 | DETAIL NO. S-003

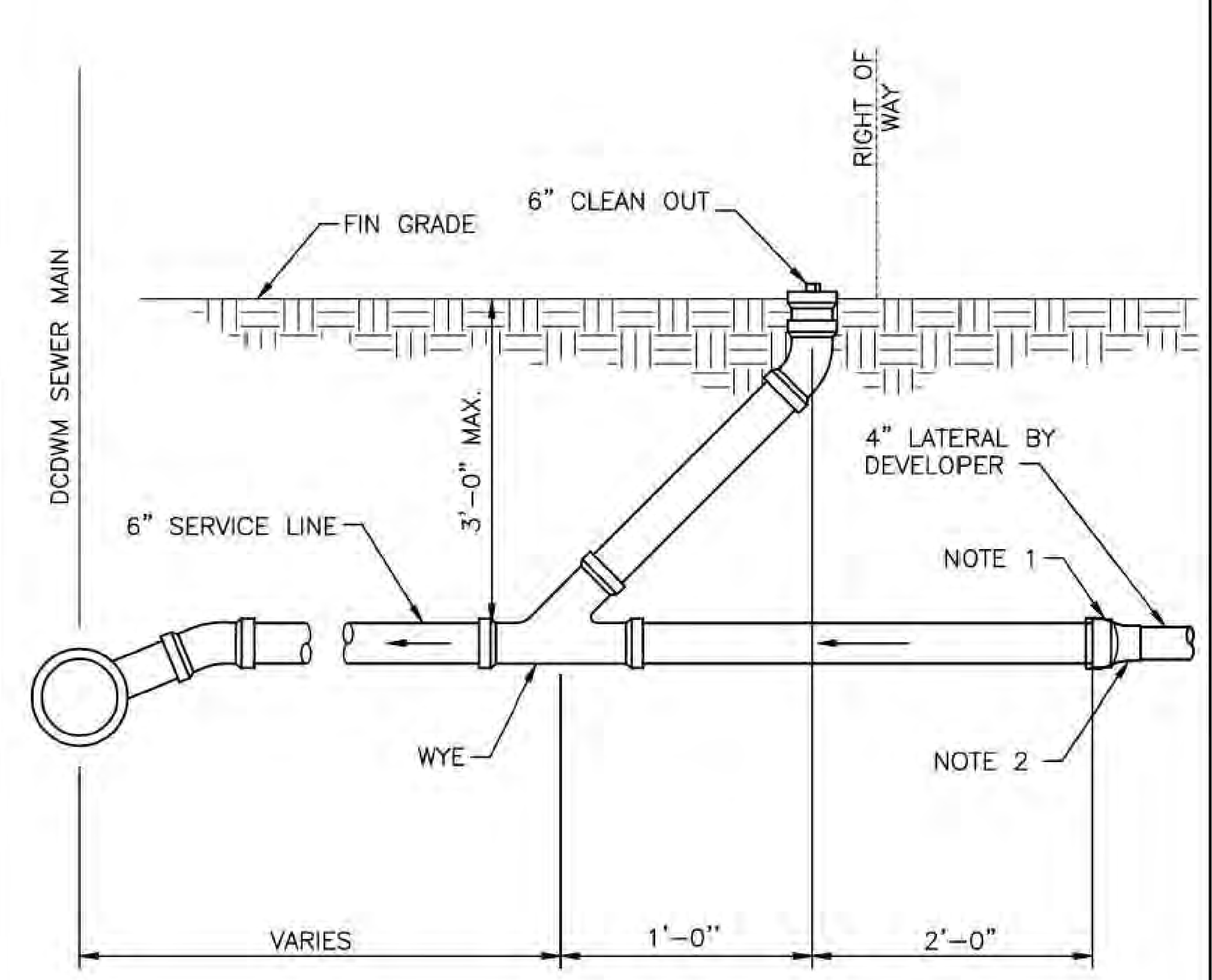


STANDARD DETAILS

New Line Connection to an Existing Structure

NOT TO SCALE

DeKalb County GEORGIA | WATER Matters | 09/17 | DETAIL NO. S-011



NOTES:

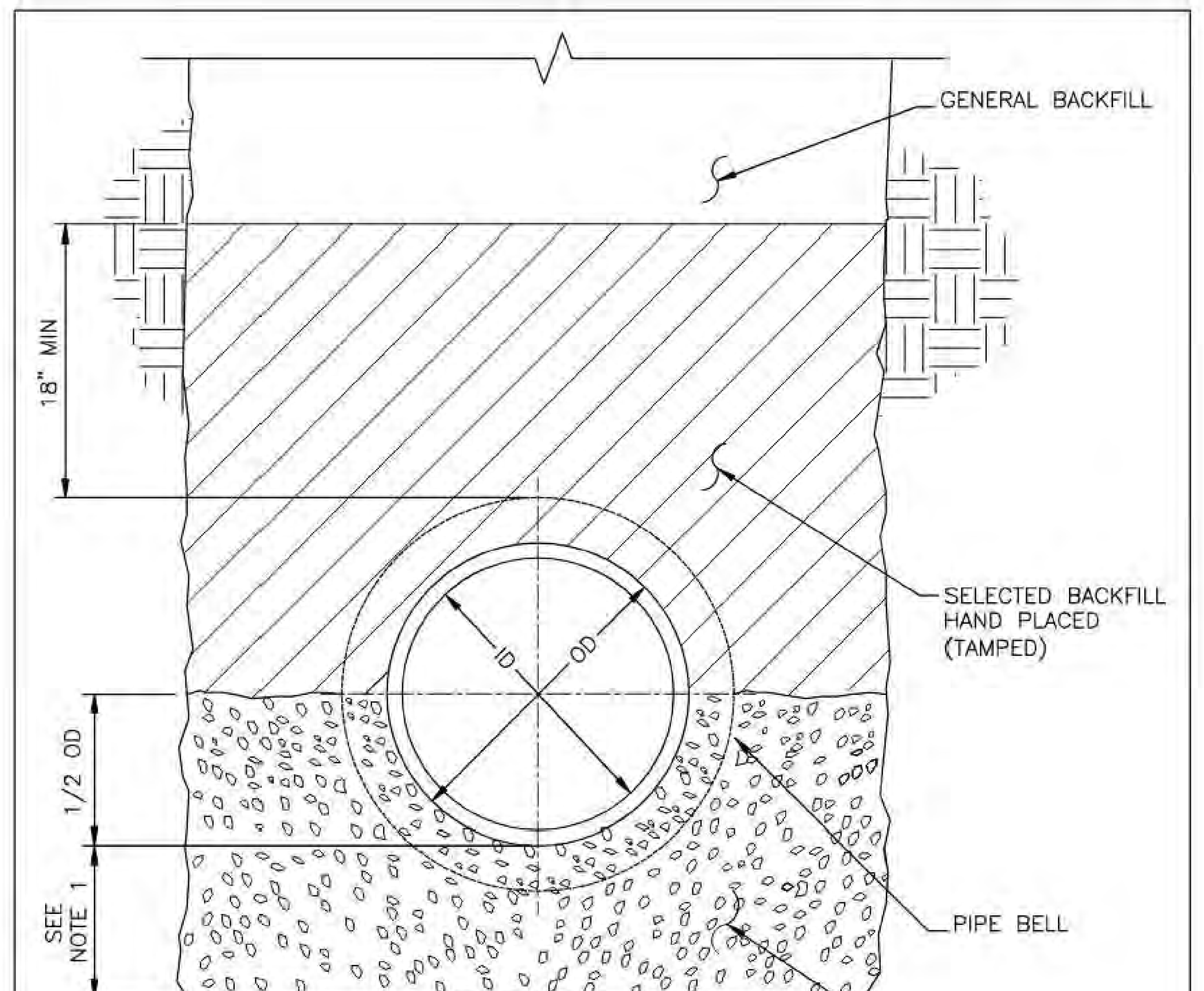
1. PLUG 6" SERVICE LINE.
2. CONNECT DEVELOPER'S 4" LATERAL TO 6" SERVICE LINE W/ 4" X 6" FERNCO COUPLING INCLUDING SST BANDS

STANDARD DETAILS

Typical Service Line and Clean Out Detail

NOT TO SCALE

DeKalb County GEORGIA | WATER Matters | 09/17 | DETAIL NO. S-012



NOTES:

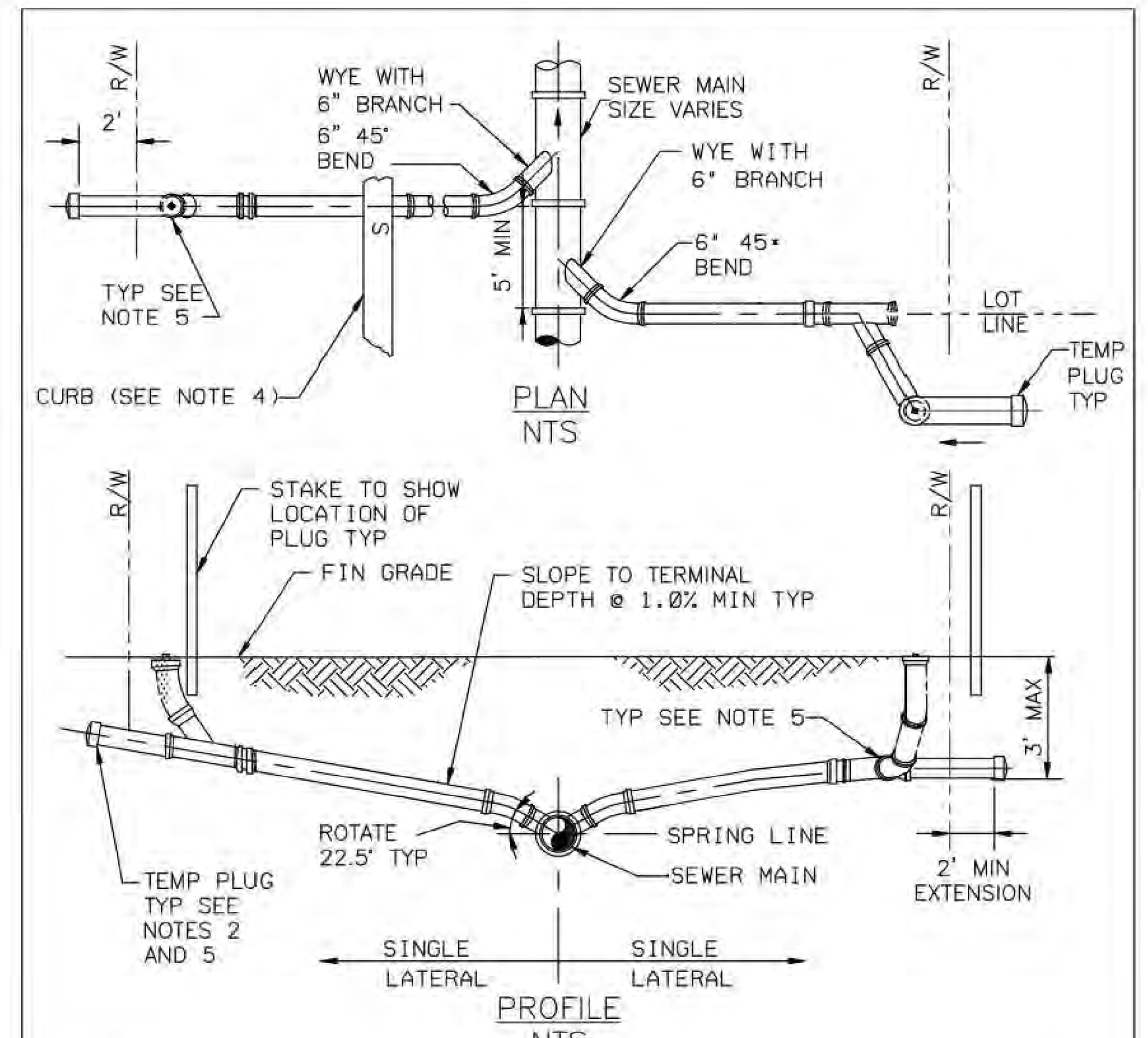
1. BEDDING DEPTH BELOW PIPE:
   a.) PIPE DIAMETER UP TO 12":
      i.) EQUAL TO 1/2 TIMES THE OUTSIDE DIAMETER (OD)
      ii.) MINIMUM 4"
   b.) PIPE DIAMETER GREATER THAN 12":
      i.) EQUAL TO 1/4 TIMES THE OUSIDE DIAMETER (OD)
      ii.) MINIMUM 6"
   C.) MAXIMUM 12"

STANDARD DETAILS

Class "B" Bedding

NOT TO SCALE

DeKalb County GEORGIA | WATER Matters | 09/17 | DETAIL NO. S-014



NOTES:

1. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
2. SERVICE LATERAL SHALL BE CAPPED BY DEVELOPER'S CONTRACTOR.
3. ALL FITTINGS SHOWN ARE TO BE INSTALLED.
4. SERVICE CONNECTIONS SHALL BE PERMANENTLY MARKED BY CUTTING AN "S" IN THE CURB DIRECTLY OVER THE LATERAL.
5. DEVELOPER'S CONTRACTOR SHALL INSTALL CLEANOUT.

STANDARD DETAILS

SANITARY SEWER LATERAL CONNECTION

NOT-TO-SCALE

DeKalb County GEORGIA | WATER Matters | 09/17 | DETAIL NO. S-017

UTILITY PLAN DETAILS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 . www.chacompanies.com

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 032720 CHRISTOPHER L. MANES 1/7/22

GSWCC# 10882
EXP: 05/24/2024

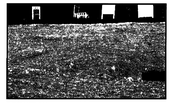
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY	DMN
CHECKED BY	CLM
DATE:	01/07/2022
SCALE:	NO SCALE
JOB No.	20-LD-025 / 061694.00
SHEET NUMBER	D-3A

USER 6674 – Jan 07, 2022 – 4:30pm
Z:\All Project Data\Projects\2020\20-LD-025 Perimeter Center Park, Dunwoody, GA\LD\Production\Production Drawings\20-LD-025 Details.dwg
20-LD-025 DETAILS.DWG

Disturbed Area Stabilization (With Mulching Only) Ds1



DEFINITION

Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

PURPOSE

- To reduce runoff and erosion
- To conserve moisture
- To prevent surface compaction or crusting
- To control undesirable vegetation
- To modify soil temperature
- To increase biological activity in the soil

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 90% cover or greater of the soil surface.

Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months.

If any area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed. Refer to **Ds2 -Disturbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 - Disturbed Area Stabilization (With Sodding)**.

SPECIFICATIONS

Mulching Without Seeding

This standard applies to graded or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation

1. Grade to permit the use of equipment for applying and anchoring mulch.
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
3. Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials

Select one of the following materials and apply at the depth indicated:

1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.
2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
3. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

Applying Mulch

When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.

1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.
2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
3. Apply polyethylene film on exposed areas.

Anchoring Mulch

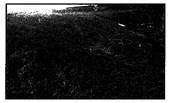
1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.

   Straw or hay mulch spread with special blower-type equipment may be anchored. Tackifiers, binders and hydraulic mulch with tackifier specifically designed for tacking straw can be substituted for emulsified asphalt. Please refer to specification **Tac-Tackifiers**. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.

2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.

3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.

Disturbed Area Stabilization (With Temporary Seeding) Ds2



DEFINITION

The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or denuded areas.

PURPOSE

- To reduce runoff and sediment damage of down stream resources
- To protect the soil surface from erosion
- To improve wildlife habitat
- To improve aesthetics
- To improve tilth, infiltration and aeration as well as organic matter for permanent plantings

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. If an area is expected to be undisturbed for longer than six months, permanent perennial vegetation shall be used. If optimum planting conditions for temporary grassing is lacking, mulch can be used as a singular erosion control device for up to six months but it shall be applied at the appropriate depth, anchored, and have a continuous 90% cover or greater of the soil surface. Refer to specification **Ds1-Disturbed Area Stabilization (With Temporary Seeding).**

CONDITIONS

Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established. Note: Some species of temporary vegetation are not appropriate for companion crop plantings because of their potential to out-compete the desired species (e.g. annual ryegrass). Contact NRCS or the local SWCD for more information.

SPECIFICATIONS

Grading and Shaping

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others.

No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand-seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall.

When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

Lime and Fertilizer

Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate determined by soil test for pH. Quick acting lime should be incorporated to modify pH during the germination period. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before land preparation and incorporated with a disk, ripper, or chisel. On slopes too steep for, or inaccessible to equipment, fertilizer shall be hydraulically applied, preferably in the first pass with seed and some hydraulic mulch, then topped with the remaining required application rate.

Seeding

Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, cultipacker-seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand. See Table 6-4.1

Mulching

Temporary vegetation can, in most cases, be established without the use of mulch, provided there is little to no erosion potential. However, the use of mulch can often accelerate and enhance germination and vegetation establishment. Mulch without seeding should be considered for short term protection. Refer to **Ds1 - Disturbed Area Stabilization (With Mulching Only)**.

Irrigation

During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed. Subsequent applications should be made when needed.

Disturbed Area Stabilization (With Permanent Vegetation) Ds3

DEFINITION

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

PURPOSE

- To protect the soil surface from erosion
- To reduce damage from sediment 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 at final grade. **Final Stabilization** means that all soil disturbing activities at the site have been completed, and that for unpaved 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 EPD for waste disposal, 100% of the soil surface is uniform(vi)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 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 this 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 perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other denuded areas.

PLANNING CONSIDERATIONS

1. Use conventional planting methods where possible.
2. When mixed plantings are done during marginal planting periods, companion crops shall be used.
3. No-till planting is effective when planting is done following a summer or winter annual cover crop. Sericea lespedeza planted no-till into stands of rye is an excellent procedure.
4. Block sod provides immediate cover. It is especially effective in controlling erosion adjacent to concrete flumes and other structures. Refer to Specification **Ds4-Disturbed Area Stabilization (With Sodding)**.
5. Irrigation should be used when the soil is dry or when summer plantings are done.
6. Low maintenance plants, as well as natives, should be used to ensure long-lasting erosion control.
7. Mowing should not be performed during the quail nesting season (May to September).
8. Wildlife plantings should be included in critical area plantings.

Table 6-5.1. Fertilizer Requirements

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2/
	Second	6-12-12	1000 lbs./ac.	
	Maintenance	10-10-10	400 lbs./ac.	30
2. Cool season grasses and legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/
	Second	0-10-10	1000 lbs./ac.	---
	Maintenance	0-10-10	400 lbs./ac.	---
3. Ground covers	First	10-10-10	1300 lbs./ac. 3/	---
	Second	10-10-10	1300 lbs./ac. 3/	---
	Maintenance	10-10-10	1100 lbs./ac.	---
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seeding placed in the closing hole	---
5. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	---
	Maintenance	0-10-10	700 lbs./ac. 4/	
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
7. Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/6/
	Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 2/
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac.
8. Warm season grasses and legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac./5/
	Second	0-10-10	1000 lbs./ac.	
	Maintenance	0-10-10	400 lbs./ac.	

1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply in 3 split applications.
4/ Apply when plants are pruned.
5/ Apply to grass species only.
6/ Apply when plants grow to a height of 2 to 4 inches.

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.
- To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

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. Refer to specification **Tac - Tackifiers**. Resins should be used according to manufacturer's recommendations.

Vegetative Cover. See specification **Ds2 - Disturbed Area Stabilization (With Temporary Seeding).**

Spray-on Adhesives. These are used on mineral soils (not effective on muck 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 measure that should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods

Permanent Vegetation. See specification **Ds3 -Disturbed Area Stabilization (With Permanent Vegetation)**. Existing trees and large shrubs may afford valuable protection if left in place.

Topsoiling. This entails covering the surface with less erosive soil material. See specification **Tp - Topsoiling**.

Stone. Cover surface with crushed stone or coarse gravel. See specification **Cr-Construction Road Stabilization.**

Topsoiling Tp

DEFINITION

Stripping off the more fertile top soil, storing it, then spreading it over the disturbed area after completion of construction activities.

PURPOSE

To provide a suitable soil medium for vegetative growth on areas where other measures will not produce or maintain a desirable stand.

CONDITIONS

This practice is recommended for sites of 2:1 or flatter slopes where:

1. The texture of the exposed subsoil or parent material is not suitable to produce adequate vegetative growth.
2. The soil material is so shallow that the rooting zone is not deep enough to support plants with continuing supplies of moisture and food.
3. The soil to be vegetated contains material toxic to plant growth.

CONSTRUCTION SPECIFICATIONS

Materials

Topsoil should be friable and loamy, free of debris, objectionable weeds and stones and contain no toxic substance that may be harmful to plant growth. A pH range of 5.0-7.5 is acceptable. Soluble salts should not exceed 500 ppm.

Testing

Field exploration should be made to determine whether the quantity and quality of surface soil justifies stripping.

Stripping

Stripping should be confined to the immediate construction area.

A 4 to 6 inch stripping depth is common, but may vary depencing on the particular soil.

Topsoil pH

If pH value is less than 6.0, lime shall be applied and incorporated with the topsoil to adjust the pH to 6.5 or higher. Topsoils containing soluble salts greater than 500 parts per million shall not be used.

Stockpiles

The location of topsoil stockpiles should not obstruct natural drainage or cause off-site environmental damage.

Stabilization

Stockpiles shall be contained by sediment barriers to prevent sedimentation on adjacent areas. Stockpiles **shall be stabilized** in accordance with specifications **Ds1 and Ds2 - Disturbed Area Stabilization (With Mulching) and (With Temporary Grassing),** respectively, or **Tac-Tackifiers.**

Site Preparation
(Where topsoil is to be added)

Topsoiling - When topsoiling, maintain needed erosion control practices such as diversions, grade stabilization structures, berms, dikes, level spreaders, waterways, sediment basins, etc.

Grading - Grades on the areas to be topsoiled that have been previously established shall be maintained.

Lining - Soil tests should be used to determine the pH of the soil. Where the pH of the subsoil is 5.0 or less or composed of heavy clays, agricultural limestone shall be spread at the rate of 100 pounds per 1,000 square feet. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedure.

Bonding - Use one of the following methods to insure bonding of topsoil and subsoil:

1. Tilling. After the areas to be topsoiled have been brought to grade, and immediately prior to dumping and spreading the topsoil, the subgrade shall be loosened by discing or scarifying to a depth of at least 3 inches to permit bonding of the topsoil to the subsoil.
2. Tracking. Passing a bulldozer over the entire surface area of the slope to leave horizontal depressions.

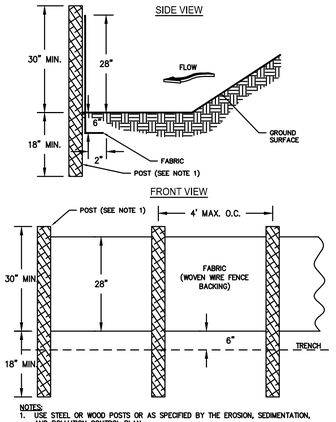
Applying Topsoil

1. Topsoil should be handled only when it is dry enough to work without damaging soil structure.
2. A uniform application of 5 inches (unsettled) is recommended, but may be adjusted at the discretion of the design professional.

Table 6-37.1. Cubic Yards Of Topsoil Required For Application To Various Depths

Depth (Inches)	Per 1,000 Square Feet	Per Acre
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.6	806

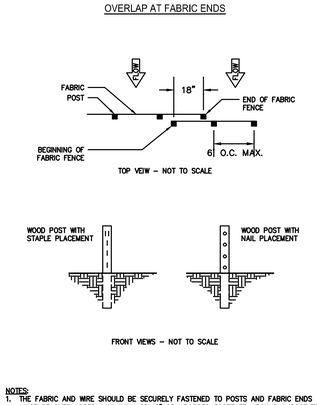
SILT FENCE - TYPE SENSITIVE



NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd1 TYPE S

FASTENERS FOR SILT FENCES

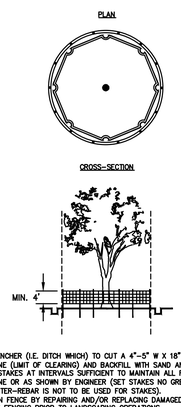


NOTES:
1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

Sd1

TREE PROTECTION

"SNOW" FENCE



NOTES:
1. USE TRENCHER (I.E. 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. SPACE 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.

Tr

(VA) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST. SEE SHEET ES-4 FOR ES&PC CHECKLIST.

EROSION SEDIMENTATION, AND POLLUTION CONTROL DETAILS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED 1/1/22 No. 037720 PROFESSIONAL ENGINEER CHRISTOPHER L. MANES

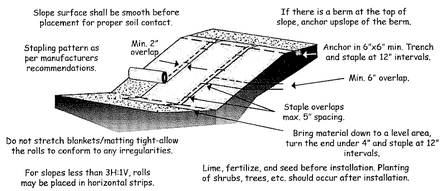
GSWCC# 10882
EXP: 05/24/2024

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

(VA) REVISIONS	BY

DRAWN BY DMN
CHECKED BY CLM
DATE: (VB) 01/07/2022
SCALE: NO SCALE
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
D-4A

20-LD-025 DETAILS.DWG



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH AS SHOWN IN DETAIL 2. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURES RECOMMENDATION.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH MINIMUM 6" OVERLAP. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
6. PLACE STAPLES/STAKES PER MANUFACTURER'S RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.

1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
2. FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION.

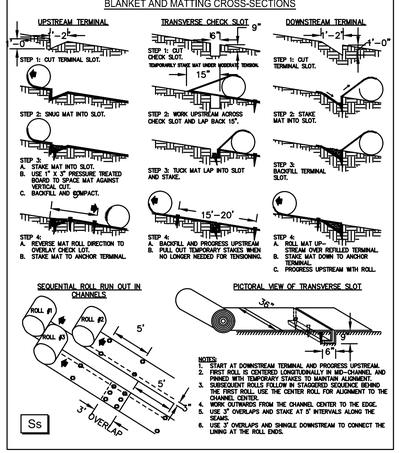
EROSION CONTROL BLANKET (CHANNEL INSTALLATION)

N.T.S.

Ss

TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS



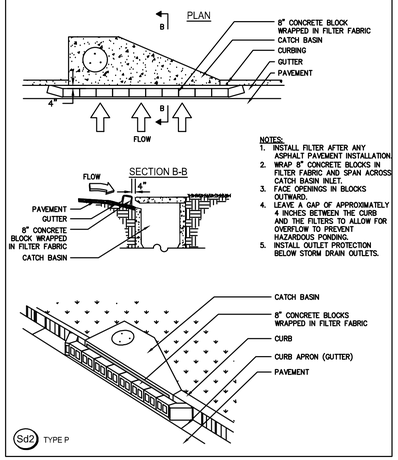
SEQUENTIAL ROLL RUN OUT IN CHANNELS

PICTORAL VIEW OF TRANSVERSE SLOT

NOTES:
1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER.
4. WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE.
5. USE 3" OVERLAPS AND STAKE AT 5' INTERVALS ALONG THE SEAMS.
6. USE 3" OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT THE LINING AT THE ROLL ENDS.

Ss

CURB INLET FILTER "PIGS IN BLANKET"

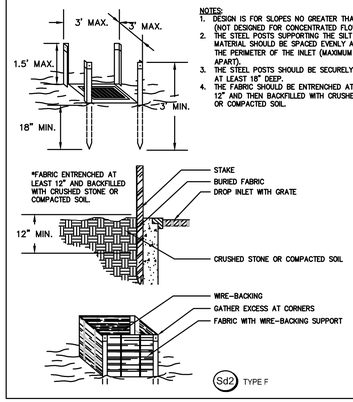


NOTES:
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
3. FACE OPENINGS IN BLOCKS OUTWARD.
4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

Sd2 TYPE P

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

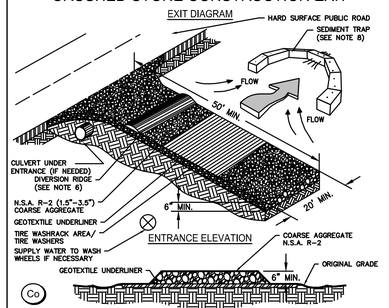
STEEL FRAME AND SILT FENCE INSTALLATION



NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

Sd2 TYPE F

CRUSHED STONE CONSTRUCTION EXIT

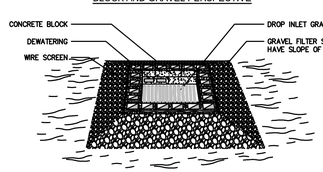


Co

NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

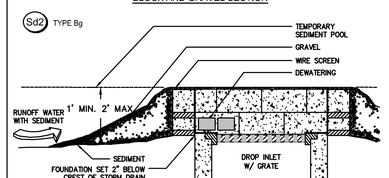
BLOCK AND GRAVEL DROP INLET PROTECTION

BLOCK AND GRAVEL PERSPECTIVE



BLOCK AND GRAVEL SECTION

Sd2 TYPE Bg

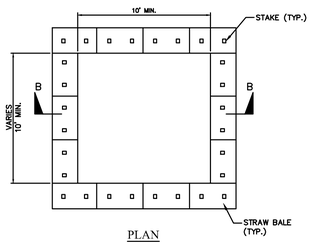


NOTE:
1. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH ½ INCH OPENINGS SHALL BE FITTED OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
2. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. THE FIRST ROW OF BLOCKS WILL BE PLACED HERE FOR LATERAL SUPPORT.
3. ONE BLOCK (AS SHOWN) IS TO BE PLACED ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW FOR POOL DRAINAGE.

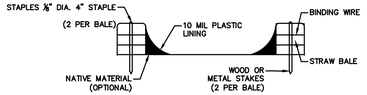
CONCRETE WASHOUT DETAIL

(24)

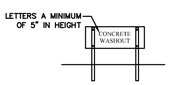
STRAW BALE BARRIER CONCRETE WASHOUT



PLAN
NOT TO SCALE
TYPE "ABOVE GRADE" WITH STRAW BALES



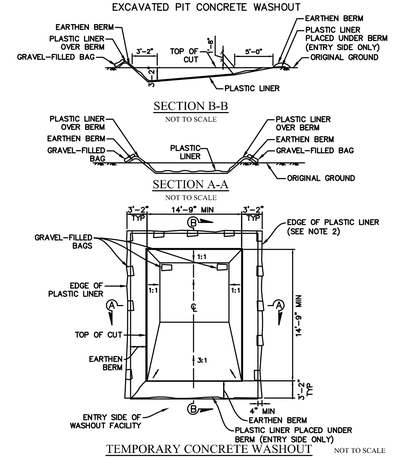
SECTION B-B
NOT TO SCALE



CONCRETE WASHOUT SIGN DETAIL
NOT TO SCALE

NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.

EXCAVATED PIT CONCRETE WASHOUT



TEMPORARY CONCRETE WASHOUT NOT TO SCALE

SCALE: NTS

(XX) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST. SEE SHEET ES-4 FOR ES&PC CHECKLIST.

EROSION SEDIMENTATION, AND POLLUTION CONTROL DETAILS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED 1/1/22 No. 0037720 PROFESSIONAL ENGINEER CHRISTOPHER L. MANES

GSWCC# 10882
EXP: 05/24/2024

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

(XX) REVISIONS	BY

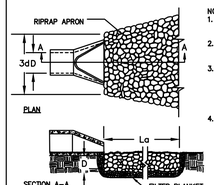
DRAWN BY: DMN
CHECKED BY: CLM
DATE: (XX) 01/07/2022
SCALE: NO SCALE
JOB No.: 20-LD-025 / 061694.00
SHEET NUMBER: D-4B

20-LD-025 DETAILS.DWG

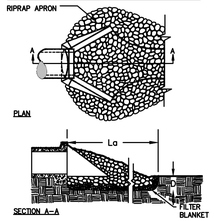
USER 6874 - Jan 07, 2022 - 4:30pm
Z:\All Project Data\Projects\2020\20-LD-025 Perimeter Center Park, Dunwoody, GA\LD\Production\Production Drawings\20-LD-025 Details.dwg

RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



PIPE OUTLET TO WELL DEFINED CHANNEL



NOTES:
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESSthan 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

FILTER BEDDING STONE

N.S.A. #(1)	SIZE IN INCHES (SQ. OPENING)		
	MAX.	AVG (2)	MIN. (3)
FS-1	3/8"	#30 MESH	#100 MESH
FS-2	2.0"	#4	#100 MESH
FS-3	6.5"	2.5"	#16

1) NATIONAL STONE ASSOCIATION
2) AT LEAST 50% OF THE INDIVIDUAL STONE PARTICLES MUST BE EQUAL OR LARGER THAN THIS LISTED SIZE
3) 85-100% OF THE INDIVIDUAL STONE PARTICLES MAY BE LESS THAN LISTED SIZE

RIP-RAP N.S.A.1 NO.	SIZE INCHES (SQ. OPENING) MAX.	AVG2	MIN.	FILTER STONE N.S.A.1 NO.	SIZE INCHES (SQ. OPENING) MAX.	AVG2	MIN3
R-3	9	6	2	FS-2	2	#4	#100 MESH
R-4	12	6	3				
R-5	18	9	5				

1. NATIONAL STONE ASSOCIATION
2. AT LEAST 50% OF THE INDIVIDUAL STONE PARTICLES MUST BE EQUAL OR LARGER THAN THIS LISTED SIZE
3. 85-100% OF THE INDIVIDUAL STONE PARTICLES MAY BE LESS THAN LISTED SIZE

REFER TO RIP RAP CHART ON PLAN FOR DIMENTIONS AND STONE SIZE FOR EACH RIP RAP LOCATION

GRADATION OF RIP-RAP ROCK

NSA NUMBER	SIZE IN INCHES d MAX. (inches)	AVG. (1) d 50 STONE (inches)	MIN. (2) (inches)	MIN. APRON THICKNESS (inches)	FILTER STONE N.S.A. # (3)
R-1	1.50"	0.75"	(NO. 8)	2.25"	FS-1
R-2	3"	1.50"	1"	4.5"	FS-1
R-3	6"	3"	2"	9"	FS-2
R-4	12"	6"	3"	18"	FS-2
R-5	18"	9"	5"	27"	FS-3
R-6	24"	12"	7"	36"	FS-3
R-7	30"	15"	12"	45"	FS-3
R-8	48"	24"	15"	72"	FS-3

(1) "AVERAGE SIZE" IS THAT SIZE EXCEEDED BY AT LEAST 50% OF THE TOTAL WEIGHT OF THE TONNAGE SHIPPED; THE SPECIFIED NOMINAL TOP SIZE, CONSIST OF PIECES LARGER THAN THE "AVERAGE SIZE (NORMALLY HALF THE SPECIFIED NOMINAL TOP SIZE).
(2) PIECES SMALLER THAN THE MINIMUM SIZE SHOWN SHALL NOT EXCEED 15% OF THE TONNAGE SHIPPED.
(3) NATIONAL STONE ASSOCIATION

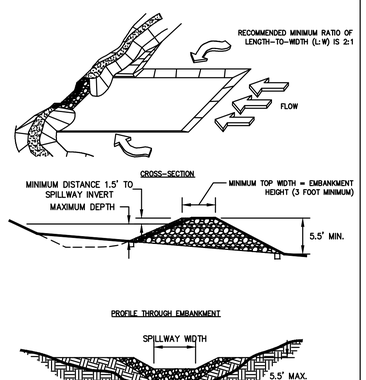
STORM DRAIN OUTLET PROTECTION

NUMBER	AVG. STONE SIZE (d50) (inches)	APRON LENGTH (La) (feet)	APRON WIDTH AT HEADWALL(Wt) (feet)	APRON WIDTH DOWNSTREAM OF PIPE(W2) (feet)	MIN. APRON THICKNESS(d) (inches)	PIPE DIAMETER (inches)	FLOW RATE (cfs)	VELOCITY (fps)	TAILWATER CONDITION (feet)
St#1	24	16	7.5	19	36	30	20.18	13.38	0
St#2	12	6	3	7	18	12	0.24	3.71	0
St#3	12	6	1.5	6.5	18	0.5	0.55	3.43	0
St#4	12	6	1.5	6.5	18	0.5	0.55	3.43	0
St#5	12	6	1.5	6.5	18	0.5	0.55	3.43	0
(xx) St#6	12	6	1.5	6.5	18	0.5	0.55	3.43	0
(St) St#7	12	6	1.5	6.5	18	0.5	0.55	3.43	0

TEMPORARY SEDIMENT TRAP

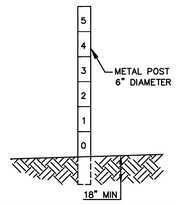
COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT

ROCK OUTLET



(Sd4) TYPE C

SILT GAUGE



EXCAVATED INLET TRAP #2B

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

If the **EXCAVATED INLET SEDIMENT TRAP** is used, show the following information:

(Sd2-Ex) #2B

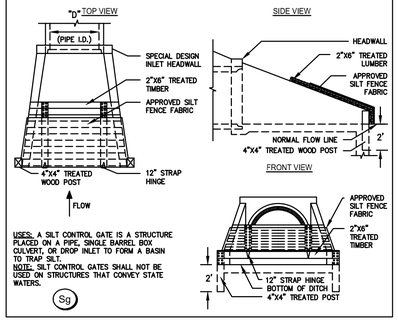
1. **Drainage area** = 1.23 ac
2. Required sediment storage = 67 cy/ac * drainage area
   Required sediment storage = 67 cy/ac * 1.23 ac
   Required sediment storage = 82 cy = 2,214 cf
3. Assume excavation **depth** (minimum of 1.5 ft.) = 3 ft
4. Assume **slope of sides** (shall not be steeper than 2:1) = 2 :1
5. Determine required surface area
   SA_{min} = Required sediment storage / excavation depth
   SA_{min} = 82 cy / 2 ft
   SA_{min} = 1,107 sf
6. Assume shape of excavation and determine dimensions.
   (A rectangular shape with 2:1 length to width ratio is recommended.)
   Shape: RECTANGULAR
   Dimensions: l = 65 ft w = 32 ft diameter (*if applicable*) = N/A ft

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

SILT CONTROL GATE WITH SLOTTED BOARD DAM

TYPE 3: FOR FLARED END SECTIONS AND TAPERED HEADWALLS

NOTES:
1. SLOTTED BOARD DAM SHALL BE INSTALLED WITH MINIMUM SIZE 4" X 4" POSTS.
2. BOARDS SHOULD HAVE A 0.5" TO 1"SPACE BETWEEN THEM AND MUST HAVE GROUND OR BOTTOM OF CONCRETE CONTACT.
3. MINIMUM SIZE 3-4" STONE FILTER SHALL BE INSTALLED AROUND THE UPSTREAM SIDE OF THE BOARD DAM.
4. POSTS FOR THE SILT CONTROL GATE SHALL BE 4" X 4" TREATED LUMBER AND FACE BOARDS SHALL BE 2" X 6" TREATED LUMBER WITH NO SPACING ALLOWED BETWEEN BOARDS.
5. AN APPROVED SILT FENCE FABRIC SHALL BE SECURELY FASTENED TO THE FRONT OF THE STRUCTURE USING STABLES (BE SURE TO HAVE SILT FENCE ON UPSTREAM SIDE OF STRUCTURE).
6. SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT GATE. FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED AND/OR DETERIORATED.
7. ALL DISTURBED AREAS SHALL BE VEGETATED IMMEDIATELY AFTER CONSTRUCTION WITH PERMANENT VEGETATION.



USES: A SILT CONTROL GATE IS A STRUCTURE PLACED ON A PIPE, SINGLE BARREL BOX CULVERT, OR DROP INLET TO FORM A BASIN TO TRAP SILT.
NOTE: SILT CONTROL GATES SHALL NOT BE USED ON STRUCTURES THAT CONVEY STATE WATERS.

(Sg)

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

Storage Calculations

1. Required stormwater storage = N/A cy
   (as determined by local ordinance)
2. Required sediment storage = 111 cy
   (67 cy/ac * 1.65 ac disturbed area)
3. Total required storage = (1) + (2) = (3) cy =113 cy
4. Available storage = (4) cy=113 cy
5. Is the available storage (4) greater than the total required storage (3)?
   X yes _____ no
6. If "no", the sediment storage capacity of the pond must be increased. Choose the method to be used:
   _____ Raise the invert of the outlet structure _____ inches
   _____ Undercut the pond _____ feet
   _____ Other _____
7. Clean-out elevation =933.85ft
   (Elevation corresponding to 22 cy/ac *1.65ac disturbed area)
8. Is the length-width ratio 2:1 or greater?
   _____ yes _____ no N/A
9. If "no", the length of flow must be increased. Choose the method to be used:
   _____ Baffles (Type of baffle: _____)
   _____ Other _____

Note the CMP diameter and height if a half-round CMP retrofit is to be used.
Diameter = N/A inches Height = N/A feet

PH II

(Rt-Sg)

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

Storage Calculations

1. Required stormwater storage = N/A cy
   (as determined by local ordinance)
2. Required sediment storage = 113 cy
   (67 cy/ac * 1.69 ac disturbed area)
3. Total required storage = (1) + (2) = (3) cy =113 cy
4. Available storage = (4) cy=113 cy
5. Is the available storage (4) greater than the total required storage (3)?
   X yes _____ no
6. If "no", the sediment storage capacity of the pond must be increased. Choose the method to be used:
   _____ Raise the invert of the outlet structure _____ inches
   _____ Undercut the pond _____ feet
   _____ Other _____
7. Clean-out elevation =933.85ft
   (Elevation corresponding to 22 cy/ac *1.69ac disturbed area)
8. Is the length-width ratio 2:1 or greater?
   _____ yes _____ no N/A
9. If "no", the length of flow must be increased. Choose the method to be used:
   _____ Baffles (Type of baffle: _____)
   _____ Other _____

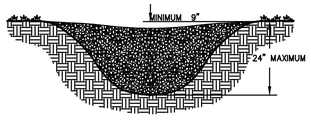
Note the CMP diameter and height if a half-round CMP retrofit is to be used.
Diameter = N/A inches Height = N/A feet

PH III

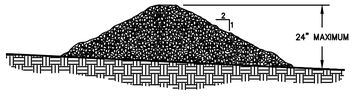
(Rt-Sg)

STONE CHECK DAM

CROSS SECTION



PROFILE VIEW

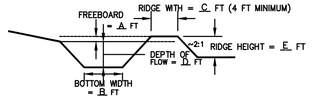


NOTES:
1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

(Cd) TYPE S

SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

COMPLETE THE APPROPRIATE DETAIL DRAWING FOR THE CHANNEL CROSS-SECTION OF CHOICE:



DIVERSION DITCHES

DITCH NUMBER	A	B	C	D	E
1	1.79	2.0	4.0	0.21	VARIES
2	1.83	2.0	4.0	0.17	VARIES
3	1.71	2.0	4.0	0.29	VARIES
4	1.91	2.0	4.0	0.09	VARIES

(Di)

Diversion Ditch #1

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

1.cfs in the channel/ditch that the check dam is being used in: 3.59 cfs

2. Above 2.0 cfs: Yes X No _____

3. If Yes, list BMP being used in conjunction with check dams: MATTING BLANKET

Diversion Ditch #2

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

1.cfs in the channel/ditch that the check dam is being used in: 0.97 cfs

2. Above 2.0 cfs: Yes _____ No X

3. If Yes, list BMP being used in conjunction with check dams: _____

MATTING BLANKET PROVIDED IN ADDITION TO CHECKDAMS.

Diversion Ditch #3

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

1.cfs in the channel/ditch that the check dam is being used in: 3.59 cfs

2. Above 2.0 cfs: Yes X No _____

3. If Yes, list BMP being used in conjunction with check dams: MATTING BLANKET

Diversion Ditch #4

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

1.cfs in the channel/ditch that the check dam is being used in: 1.12 cfs

2. Above 2.0 cfs: Yes _____ No X

3. If Yes, list BMP being used in conjunction with check dams: _____

MATTING BLANKET PROVIDED IN ADDITION TO CHECKDAMS.

(Cd) TYPE S

Retaining Wall (Re)

DEFINITION
A wall constructed of one or more of the following: concrete masonry, reinforced concrete cribbing, treated timbers, steel pilings, gabions, stone drywall, rock riprap, etc.

PURPOSE
To assist in the stabilization of cut or fill slopes where stable slopes are not attainable without the use of the wall.

CONDITIONS
Use in conjunction with cut or fill slopes that, because of space limitations or unstable material, do not allow the stable slope criteria listed above, e.g cuts into steep hillsides on small lots or cuts into hillsides behind shopping centers to provide loading space.

DESIGN CRITERIA
General
The design of a retaining wall is a complicated process. Many factors must be taken into account such as: stresses and forces outside and within the wall, allowable height and minimum thickness. Other considerations are: foundation design with respect to loadings, bearing values of soils and footing dimensions. Additional design factors are safety hazards, subsurface and surface drainage and appearance.

Each situation requires a specific design that is within the capabilities of the design professional.

Consideration should be given to all of the alternative methods with regard to construction of the wall. Some methods are:

1. Concrete masonry
2. Concrete cribbing
3. Gabions
4. Steel piling
5. Stone drywall
6. Rock riprap, etc.
7. Treated timbers
8. Geotextile wrapped-face wall
9. Geotextile reinforced steep slopes

(xx) REPRESENTS NOTE/FEATURE WHICH CORRESPONDS WITH THE ES&PC PLAN CHECKLIST. SEE SHEET ES-4 FOR ES&PC CHECKLIST.

EROSION SEDIMENTATION, AND POLLUTION CONTROL DETAILS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED 1/1/22 No. 0037720 PROFESSIONAL ENGINEER CHRISTOPHER L. MANES

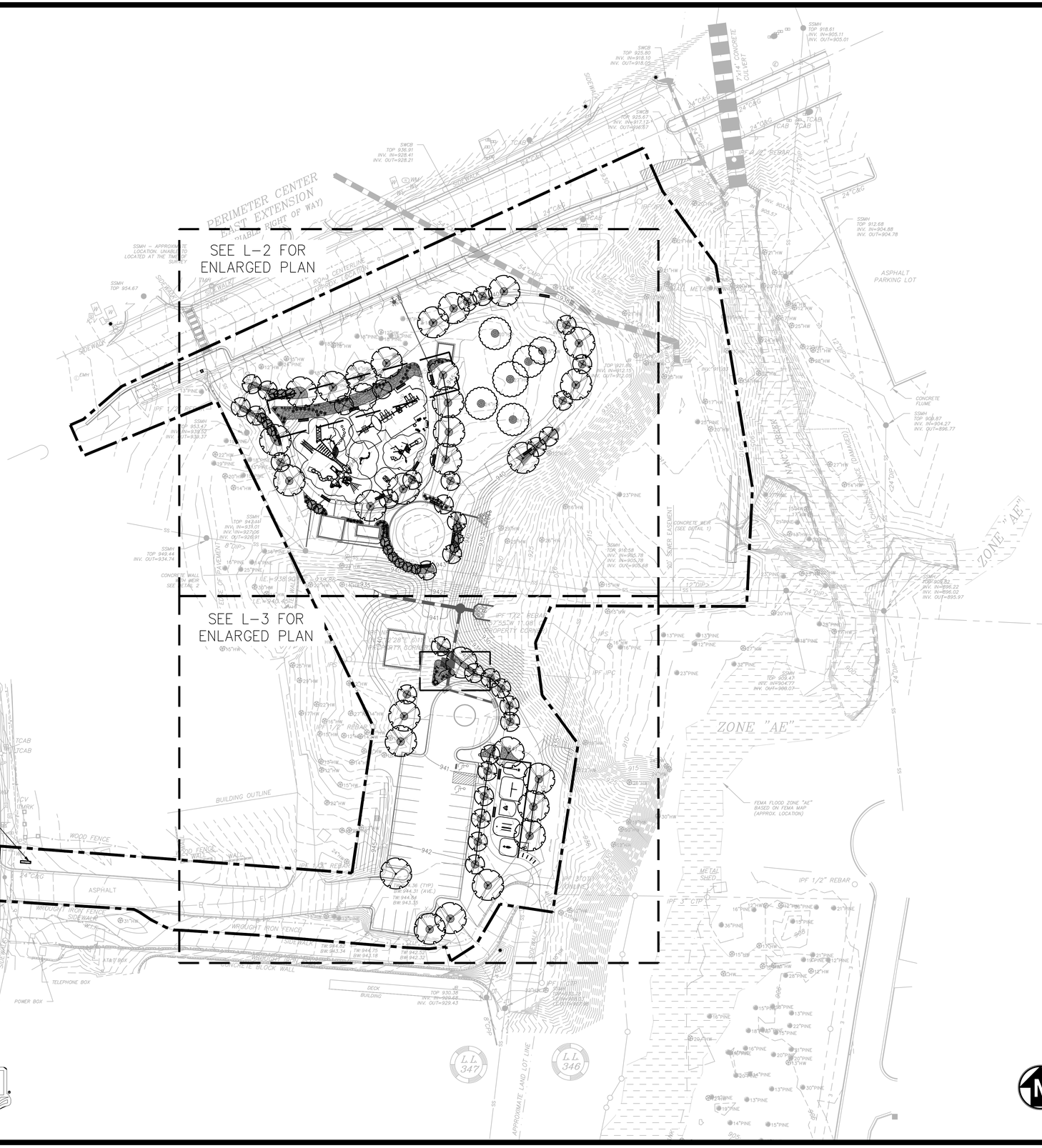
GSWCC# 10882
EXP: 05/24/2024

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

(00) REVISIONS	BY

DRAWN BY DMN
CHECKED BY CLM
DATE: (00) 01/07/2022
SCALE: NO SCALE
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
D-4C

20-LD-025 DETAILS.DWG



LANDSCAPE LEGEND

EXISTING TREE TO REMAIN

PLANT KEY

LARGE DECIDUOUS TREE

DECIDUOUS ORNAMENTAL TREE

LARGE EVERGREEN SHRUB

LANDSCAPE PLAN NOTES

1. SEE SITE DEMOLITION PLAN FOR EXISTING TREES TO BE REMOVED AND EXISTING TREES TO BE PROTECTED.
2. ALL DISTURBED AREAS OF THE SITE WHICH ARE SCHEDULED TO BE SEEDED SHALL RECEIVE TOPSOIL. TOPSOIL TO BE INSTALLED TO A MINIMUM 6" DEPTH. COORDINATE WITH SITE EROSION CONTROL PLAN FOR ALL APPROVED TEMPORARY AND PERMANENT STABILIZATION METHODS THROUGHOUT CONSTRUCTION ACTIVITY.
3. COORDINATE WITH EROSION CONTROL PLANS FOR LIMITS OF SEEDING AND ESTABLISHMENT OF TEMPORARY AND PERMANENT GRASS COVER.
4. COORDINATE WITH ENLARGED LANDSCAPE PLANS FOR INSTALLATION OF PERENNIAL AND SMALL SHRUB PLANTING MATERIALS.

OVERALL LANDSCAPE PLAN

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 - www.chacompanies.com

GEORGIA REGISTERED No. 28590 PROFESSIONAL 11-1-2021 ENGINEER PATRICK N. GRAHAM

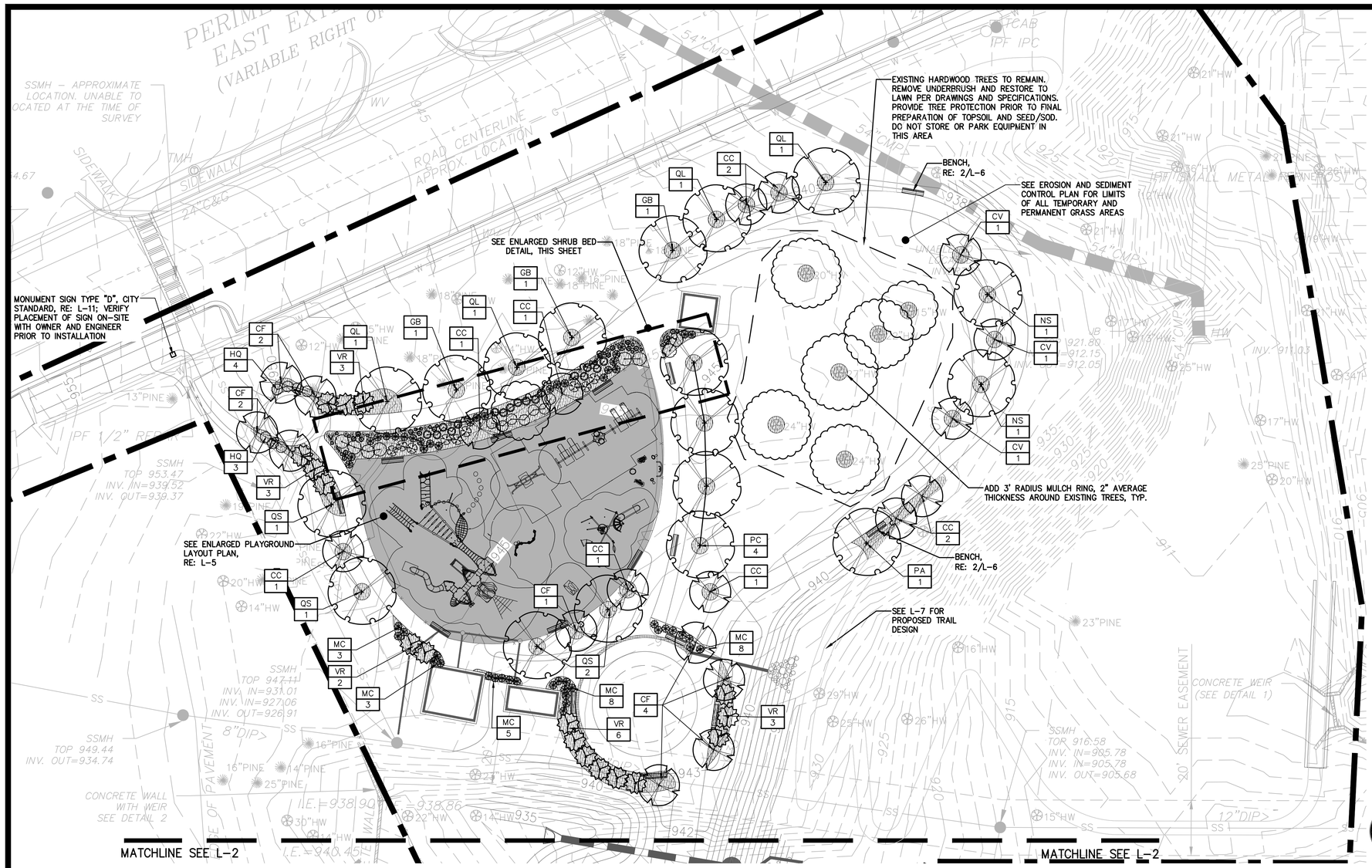
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: TM
CHECKED BY: PG
DATE: 11/01/2021
SCALE: 1"= 40'
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
L-1

100% CONSTRUCTION DOCUMENTS

USER: 3512 - Nov 01, 2021 - 11:07am
V:\Projects\NAY\45\061694.0001\09_Design-DWG\Drawings\01_Sheets\L-1.dwg - LAYOUT: L-1 VERSION: LAND DEVELOPMENT-41352
L-1.DWG



LANDSCAPE LEGEND

- LANDSCAPE MULCH, SPEC PER CITY STANDARDS
- TREE PROTECTION FENCE
- EXISTING TREE TO REMAIN

PLANT KEY

- LARGE DECIDUOUS TREE
- DECIDUOUS ORNAMENTAL TREE
- LARGE EVERGREEN SHRUB
- 3' RADIUS MULCH RING AROUND TREE

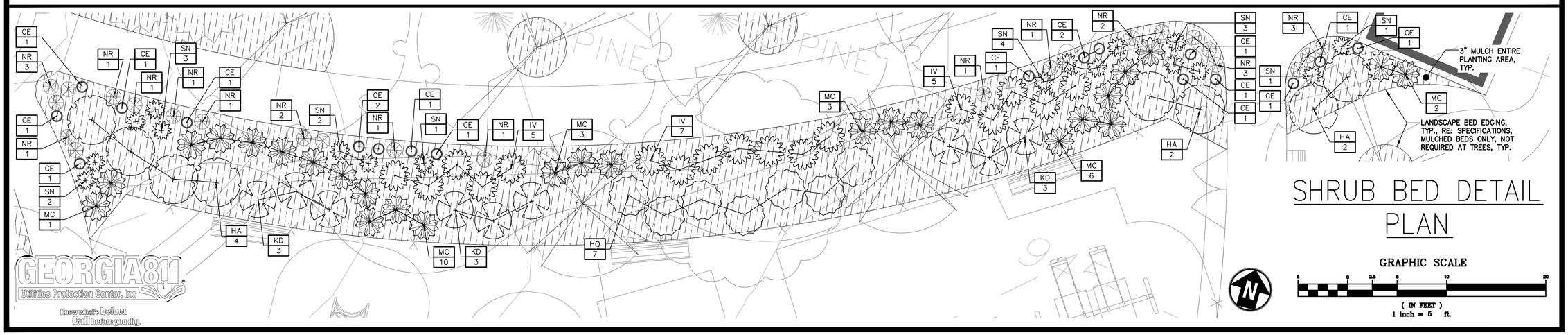
LANDSCAPE PLAN NOTES

1. SEE SITE DEMOLITION PLAN FOR EXISTING TREES TO BE REMOVED AND EXISTING TREES TO BE PROTECTED.
2. ALL DISTURBED AREAS OF THE SITE WHICH ARE SCHEDULED TO BE SEEDED SHALL RECEIVE TOPSOIL. TOPSOIL TO BE INSTALLED TO A MINIMUM 6" DEPTH. COORDINATE WITH SITE EROSION CONTROL PLAN FOR ALL APPROVED TEMPORARY AND PERMANENT STABILIZATION METHODS THROUGHOUT CONSTRUCTION ACTIVITY.
3. COORDINATE WITH EROSION CONTROL PLANS FOR LIMITS OF SEEDING AND ESTABLISHMENT OF TEMPORARY AND PERMANENT GRASS COVER.
4. COORDINATE WITH ENLARGED LANDSCAPE PLANS FOR INSTALLATION OF PERENNIAL AND SMALL SHRUB PLANTING MATERIALS.

ENLARGED LANDSCAPE PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.



SHRUB BED DETAIL PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 5 ft.

GEORGIA 811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 - www.chacompanies.com

GEORGIA REGISTERED No. 28590 PROFESSIONAL 11-1-2021 ENGINEER PATRICK N. GRAHAM

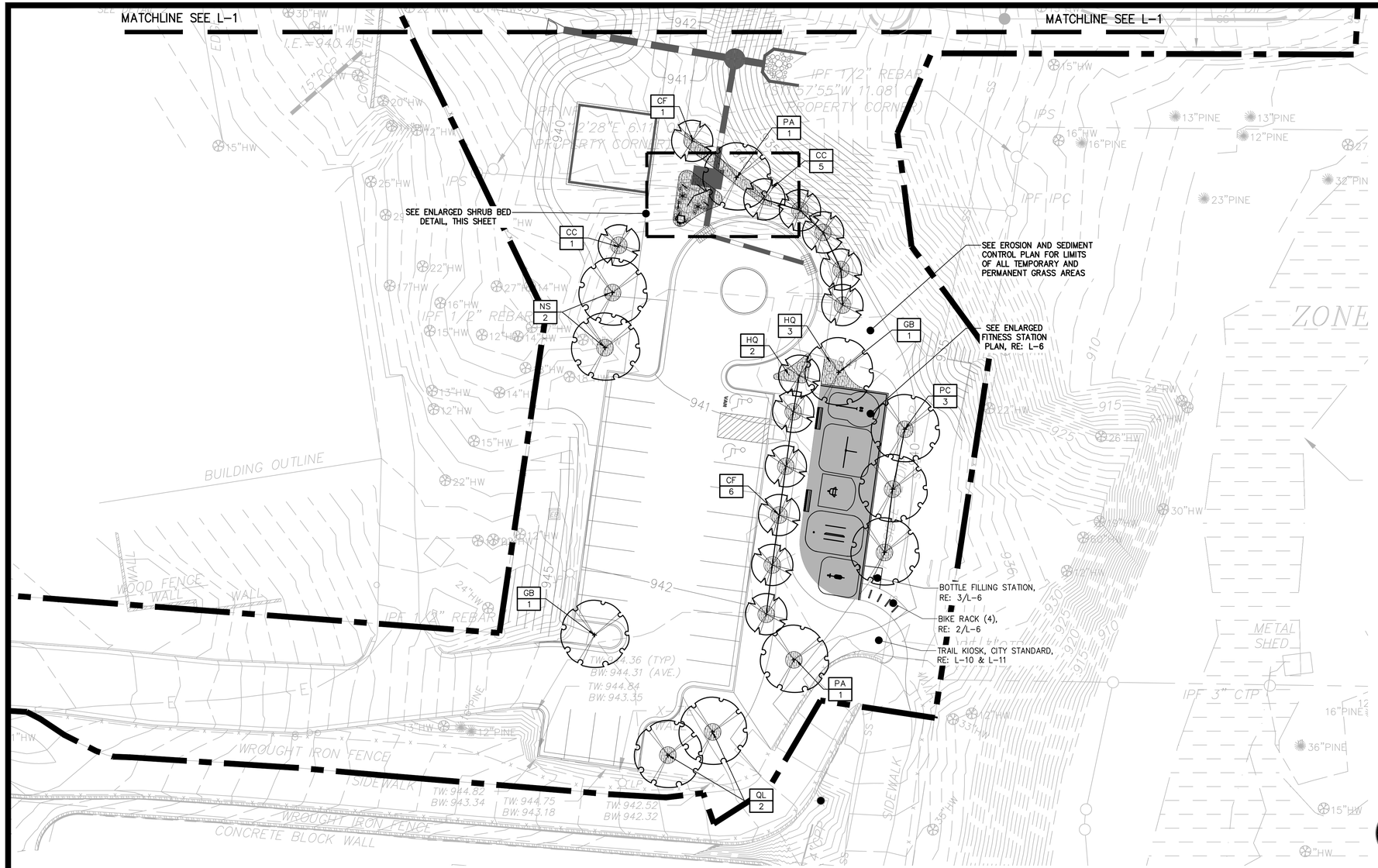
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY	TM
CHECKED BY	PG
DATE:	11/01/2021
SCALE:	1"= 20'
JOB No.	20-LD-025 / 061694.00
SHEET NUMBER	L-2

100% CONSTRUCTION DOCUMENTS

L-1.DWG



LANDSCAPE LEGEND

- LANDSCAPE MULCH, SPEC PER CITY STANDARDS
- TREE PROTECTION FENCE
- EXISTING TREE TO REMAIN

PLANT KEY

- LARGE DECIDUOUS TREE
- DECIDUOUS ORNAMENTAL TREE
- LARGE EVERGREEN SHRUB
- 3' RADIUS MULCH RING AROUND TREE

LANDSCAPE PLAN NOTES

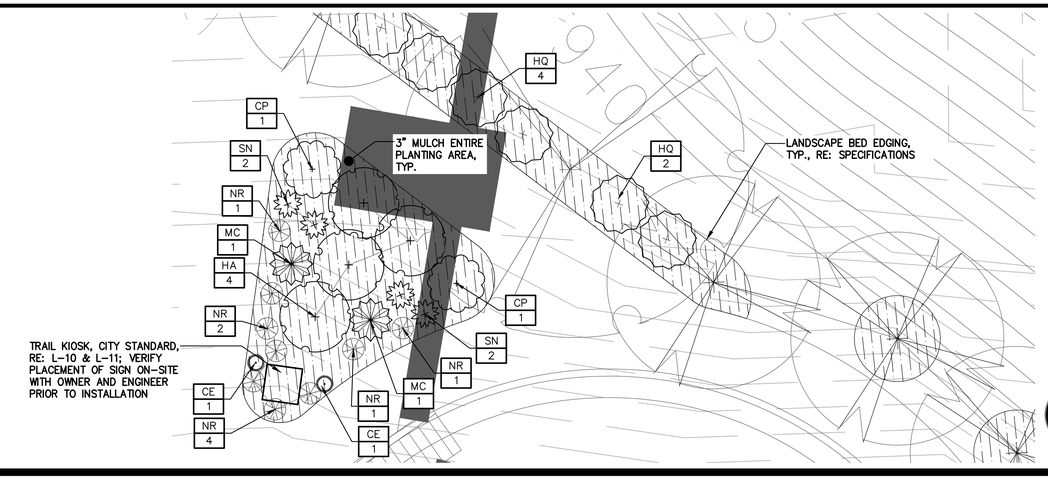
1. SEE SITE DEMOLITION PLAN FOR EXISTING TREES TO BE REMOVED AND EXISTING TREES TO BE PROTECTED.
2. ALL DISTURBED AREAS OF THE SITE WHICH ARE SCHEDULED TO BE SEEDED SHALL RECEIVE TOPSOIL. TOPSOIL TO BE INSTALLED TO A MINIMUM 6" DEPTH. COORDINATE WITH SITE EROSION CONTROL PLAN FOR ALL APPROVED TEMPORARY AND PERMANENT STABILIZATION METHODS THROUGHOUT CONSTRUCTION ACTIVITY.
3. COORDINATE WITH EROSION CONTROL PLANS FOR LIMITS OF SEEDING AND ESTABLISHMENT OF TEMPORARY AND PERMANENT GRASS COVER.
4. COORDINATE WITH ENLARGED LANDSCAPE PLANS FOR INSTALLATION OF PERENNIAL AND SMALL SHRUB PLANTING MATERIALS.

ENLARGED LANDSCAPE PLAN

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.



SHRUB BED DETAIL PLAN

GRAPHIC SCALE

5 0 2.5 5 10 20

(IN FEET)
1 inch = 5 ft.

GEORGIA811
Utilities Protection Center, Inc
Know what's below. Call before you dig.

100% CONSTRUCTION DOCUMENTS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 - www.chacompanies.com

GEORGIA REGISTERED No. 28696 PROFESSIONAL 11-1-2021 ENGINEER PATRICK N. GRAHAM

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

REVISIONS	BY

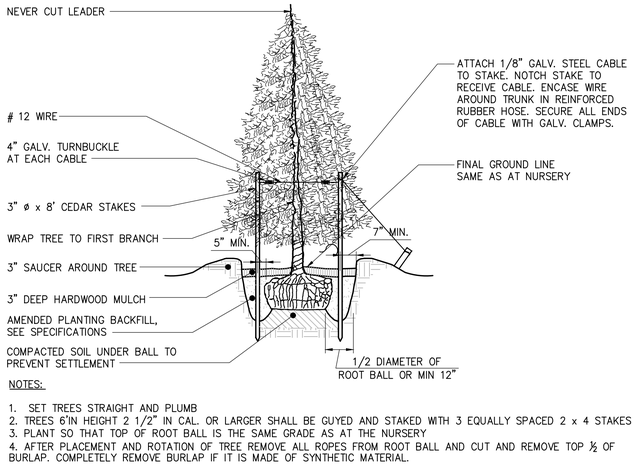
DRAWN BY: TM
CHECKED BY: PG
DATE: 11/01/2021
SCALE: 1"= 20'
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
L-3

L-1.DWG

USER: 3512 - Nov 01, 2021 - 11:08am
V:\Projects\ANYK5\061694.000\09_Design-DWG\Drawings\01_Sheets\L-1.dwg - LAYOUT: L-3 VERSION: LAND DEVELOPMENT-41352

6 NOT USED

SCALE: 1" = 1'-0"

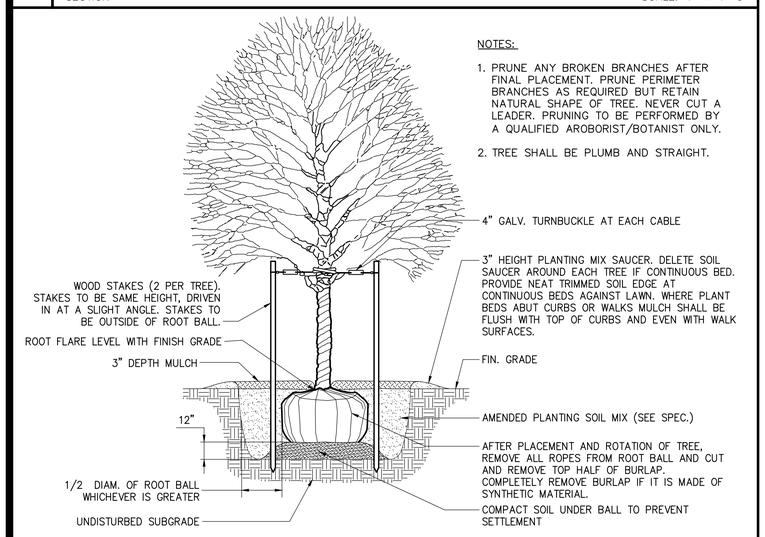


NOTES:

1. SET TREES STRAIGHT AND PLUMB
2. TREES 6'IN HEIGHT 2 1/2" IN CAL. OR LARGER SHALL BE GUYED AND STAKED WITH 3 EQUALLY SPACED 2 x 4 STAKES
3. PLANT SO THAT TOP OF ROOT BALL IS THE SAME GRADE AS AT THE NURSERY
4. AFTER PLACEMENT AND ROTATION OF TREE REMOVE ALL ROPES FROM ROOT BALL AND CUT AND REMOVE TOP ½ OF BURLAP. COMPLETELY REMOVE BURLAP IF IT IS MADE OF SYNTHETIC MATERIAL.

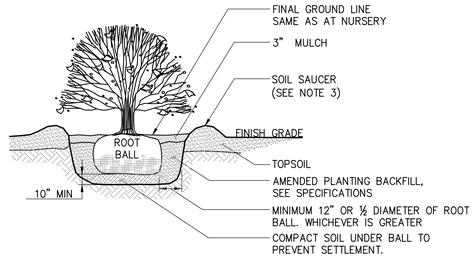
5 CONIFEROUS TREE PLANTING

SECTION — SCALE: 1" = 1'-0"



4 DECIDUOUS TREE PLANTING

SECTION — SCALE: 1" = 1'-0"

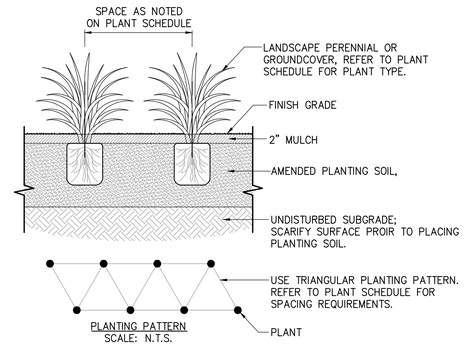


NOTES:

1. PLANTING SOIL MIX IN INDIVIDUAL PLANTING HOLES OR CONTINUOUS BEDS; SEE SCHEDULE OF SOIL AMENDMENTS IN SPECIFICATIONS.
2. AFTER PLACEMENT AND ROTATION OF SHRUB REMOVE ALL ROPES FROM ROOT BALL AND CUT AND REMOVE TOP OF BURLAP. COMPLETELY REMOVE BURLAP IF IT IS MADE OF SYNTHETIC MATERIAL.
3. DELETE SOIL SAUCER AROUND EACH SHRUB IF CONTINUOUS BED. PROVIDE NEAT TRIMMED SOIL EDGE AT CONTINUOUS BEDS AGAINST LAWN. WHERE PLANT BEDS ABUT CURBS OR WALKS MULCH SHOULD BE FLUSH WITH TOP OF CURBS AND EVEN WITH WALK SURFACES.
4. PRUNE BROKEN CANES AFTER PLANTING

3 SHRUB PLANTING

SECTION — SCALE: 1" = 1'-0"



PLANTING PATTERN
SCALE: N.T.S.

2 PERENNIAL AND GROUND COVER PLANTING

SECTION — SCALE: 1" = 1'-0"

#	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING
TREES						
15	CC	CERCIS CANADENSIS	EASTERN REDBUD	2" CAL.	B & B	AS SHOWN
16	CF	CORNUS FLORIDA	FLOWERING DOGWOOD	2" CAL.	B & B	AS SHOWN
3	CV	CHIONANTHUS VIRGINICUS	WHITE FRINGE TREE	2" CAL.	B & B	AS SHOWN
5	GB	GINKGO BILOBA 'AUTUMN GOLD'	GINKGO	3" CAL.	B & B	AS SHOWN
4	NS	NYSSA SYLVATICA	BLACK TUPELO	3" CAL.	B & B	AS SHOWN
7	PC	PISTACIA CHINENSIS	CHINESE PISTACHE	3" CAL.	B & B	AS SHOWN
3	PA	PLATANUS X ACERIFOLIA 'MORTON CIRCLE'	EXCLAMATION! PLANETREE	3" CAL.	B & B	AS SHOWN
6	QL	QUERCUS LYRATA 'HIGHBEAM'	HIGHBEAM OVERCUP OAK	3" CAL.	B & B	AS SHOWN
4	QS	QUERCUS SHUMARDII	SHUMARD OAK	3" CAL.	B & B	AS SHOWN
SHRUBS						
2	CP	CHAMAECYPARIS PISIFERA 'GOLDEN MOP'	JAPANESE FALSECYPRESS	#5	CONT.	AS SHOWN
9	KD	DIERVILLA X	KODIAK ORANGE DIERVILLA	#5	CONT.	AS SHOWN
12	HA	HYDRANGEA ARBORESCENS	INCREDIBALL SMOOTH HYDRANGEA	#5	CONT.	AS SHOWN
25	HQ	HYDRANGEA QUERCIFOLIA 'RUBY SLIPPERS'	RUBY SLIPPERS OAKLEAF HYDRANGEA	#5	CONT.	AS SHOWN
17	IV	ITEA VIRGINICA 'SPRICH'	LITTLE HENRY DWRF. VIRG. SWEETSPIRE	#5	CONT.	AS SHOWN
17	VR	VIBURNUM RHYTIDOPHYLLOIDES 'ALLEGHENY'	ALLEGHENY VIBURNUM	#5	CONT.	AS SHOWN
ORNAMENTAL GRASSES						
54	MC	MUHLENBERGIA CAPILLARIS 'LENCA'	REGAL MIST PINK MUHLY GRASS	#2	CONT.	AS SHOWN
PERENNIALS & GROUNDCOVERS						
20	CE	CAREX ELATA 'AUREA'	BOWLES GOLDEN SEDGE	#1	CONT.	AS SHOWN
31	NR	NEPETA	CAT'S PAJAMAS CATMINT	#1	CONT.	AS SHOWN
21	SN	SALVIA N. 'CARADONNA'	CARADONNA	#1	CONT.	AS SHOWN

1 PLANTING SCHEDULE

SCALE: N.T.S.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 - www.chacompanies.com

GEORGIA REGISTERED No. 28696 PROFESSIONAL 11-1-2021 ENGINEER PATRICK N. GRAHAM

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

REVISIONS	BY

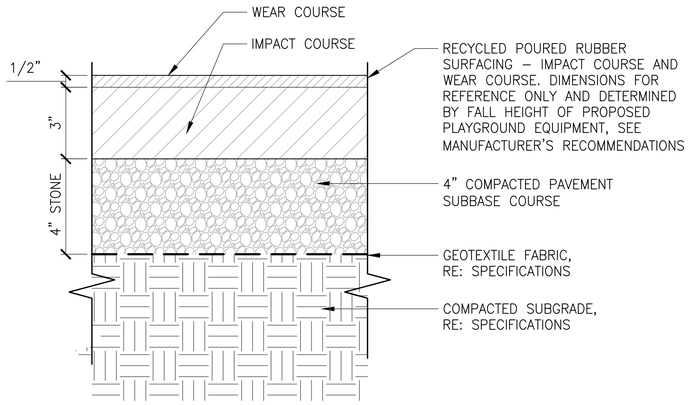
DRAWN BY: TM
CHECKED BY: PG
DATE: 11/01/2021
SCALE: 1"= ##'
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER: L-4

100% CONSTRUCTION DOCUMENTS

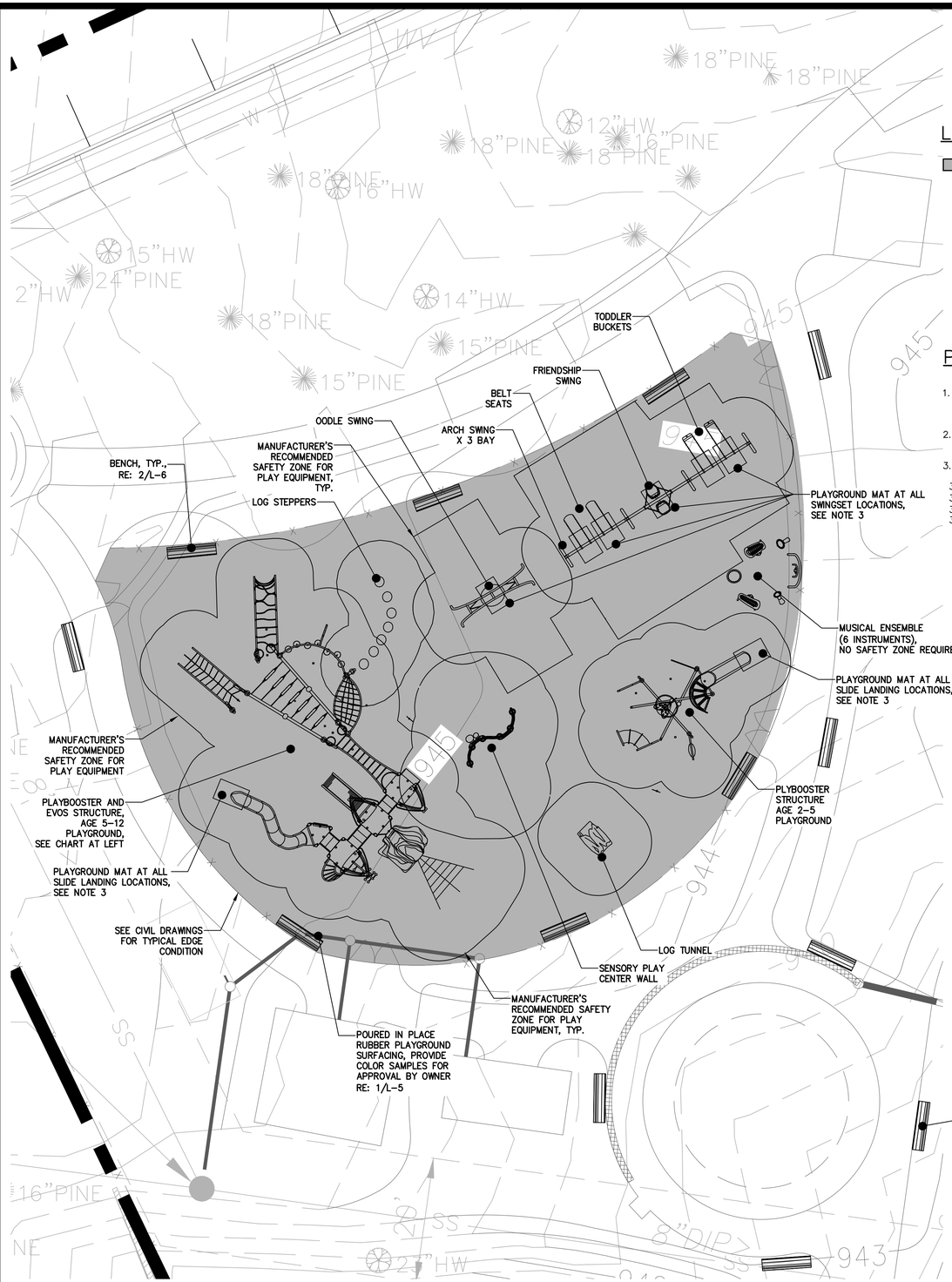
L-1.DWG

AGE 5–12 PLAYGROUND:
168364 ADVENTURESCAPE DESIGN #1 DIRECT BURY ONLY
176078 LOLLIPOP CLIMBER
179594 VIBE ROOF
176079 SUNBEAM CLIMBER
152907 DECK LINK W/BARRIERS TWO STEPS
152907 DECK LINK W/BARRIERS THREE STEPS
173567 MARBLE PANEL
115254 STORE FRONT PANEL (BELOW DECK)
123333 40" ROLLER SLIDE
156070 POINTE/PINNACLE EXT. DECK
120901 GRAB BAR
185852 TRANSFER STEP
165533 BOW LADDER
156449 HELIX NET
182503 WELCOME SIGN (LSI PROVIDED) 5–12 YEARS
156450 SWIGGLE STIX
156462 RINGTANGLE
156457 ARCOVER
156448 O–ZONE
179188 EVOS 2 ARCH W/3–5 ATTACH POINTS
124863 SIDEWINDER2 DB ONLY
OUTRIGGER
THE POINTE

TOTAL ELEVATED PLAY COMPONENTS: 7
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP: 0, REQUIRED: 0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER: 7, REQUIRED: 4
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN 6, REQUIRED: 2
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS: 6, REQUIRED: 6



1 POURED IN PLACE RUBBER SURFACING
SECTION SCALE: 3" = 1'–0"



GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

LEGEND

PLAYGROUND SURFACING, RE: SPECIFICATIONS

PLAYGROUND NOTES

1. BASIS OF DESIGN FOR ALL PLAYGROUND EQUIPMENT IS BASED ON LANDSCAPE STRUCTURES PLAYGROUND EQUIPMENT, OR APPROVED EQUAL. SEE SPECIFICATIONS
2. PROVIDE PLAYGROUND SURFACE COLOR SAMPLES TO OWNER FOR APPROVAL.
3. INSTALL PLAYGROUND MATS UNDER LOCATIONS SHOWN UNDER SWINGS AND SLIDE LANDINGS.
   - 3.1. 100% RECYCLED RUBBER WEAR MAT
   - 3.2. MINIMUM THICKNESS OF 1.5"
   - 3.3. 40" x 60" RECOMMENDED SIZE, OR SIMILAR
   - 3.4. SUBMIT PRODUCT DATA FOR APPROVAL

ENLARGED PLAYGROUND PLAN

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 - www.chacompanies.com

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 28596 11-1-2021 PATRICK N. GRAHAM

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY	TM
CHECKED BY	PG
DATE:	11/01/2021
SCALE:	1"= 10'
JOB No.	20-LD-025 / 061694.00

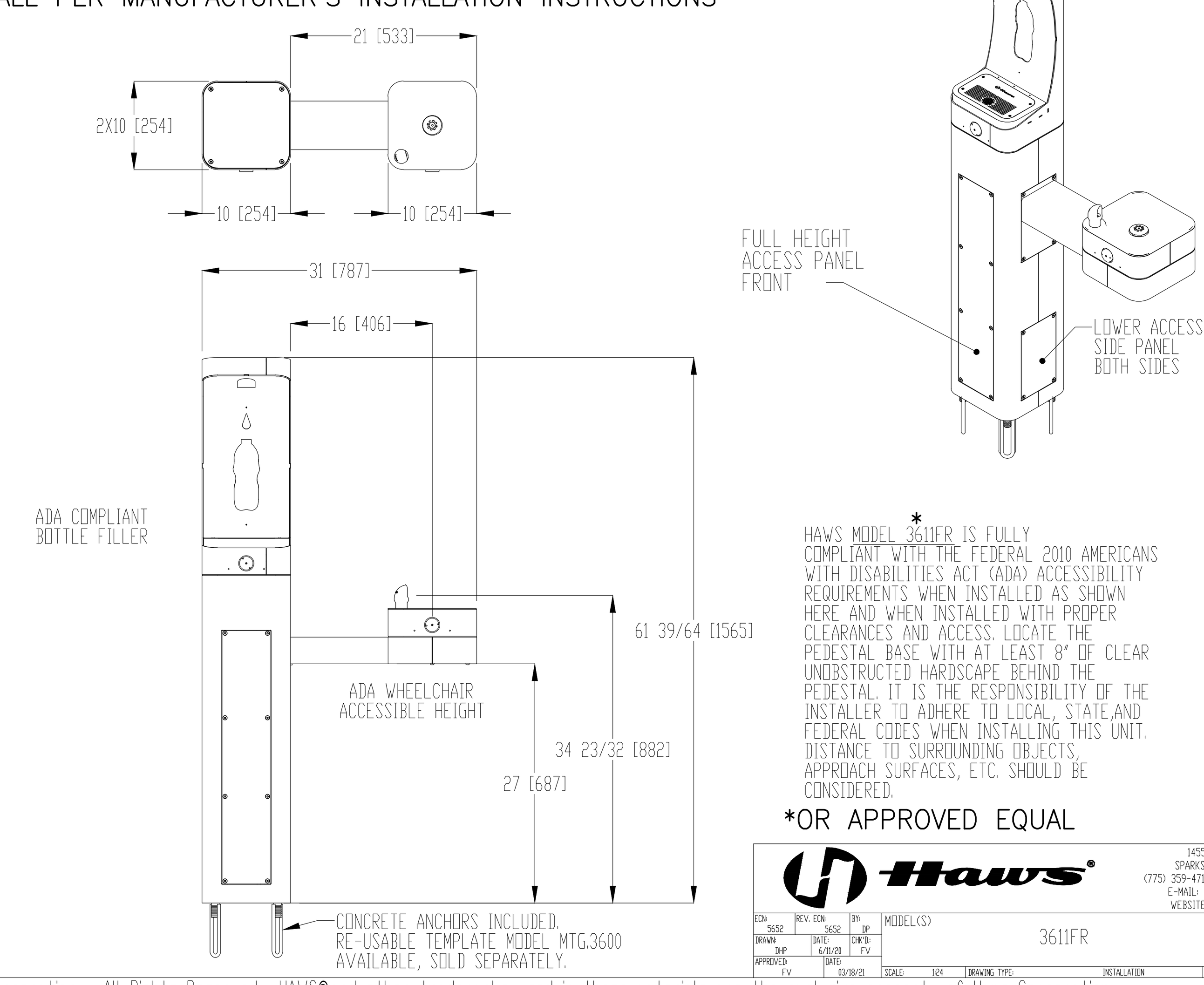
SHEET NUMBER
L-5

100% CONSTRUCTION DOCUMENTS

L-1.DWG

THIS DOCUMENT IS TRUE AND CORRECT AT TIME OF PUBLICATION. CONTINUED PRODUCT IMPROVEMENTS MAKE SPECIFICATIONS AND MEASUREMENTS SUBJECT TO CHANGE WITHOUT NOTICE.

NOTES:
1. WHEN INSTALLING THIS UNIT, LOCAL, STATE, OR FEDERAL CODES SHOULD BE ADHERED TO. INSTALL A TRAP IN THE WASTE LINE AND A SCREWDRIVER STOP IN THE SUPPLY LINE IF REQUIRED.
2. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS



HAWS MODEL 3611FR* IS FULLY COMPLIANT WITH THE FEDERAL 2010 AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY REQUIREMENTS WHEN INSTALLED AS SHOWN HERE AND WHEN INSTALLED WITH PROPER CLEARANCES AND ACCESS. LOCATE THE PEDESTAL BASE WITH AT LEAST 8" OF CLEAR UNOBSTRUCTED HARDSCAPE BEHIND THE PEDESTAL. IT IS THE RESPONSIBILITY OF THE INSTALLER TO ADHERE TO LOCAL, STATE, AND FEDERAL CODES WHEN INSTALLING THIS UNIT. DISTANCE TO SURROUNDING OBJECTS, APPROACH SURFACES, ETC. SHOULD BE CONSIDERED.

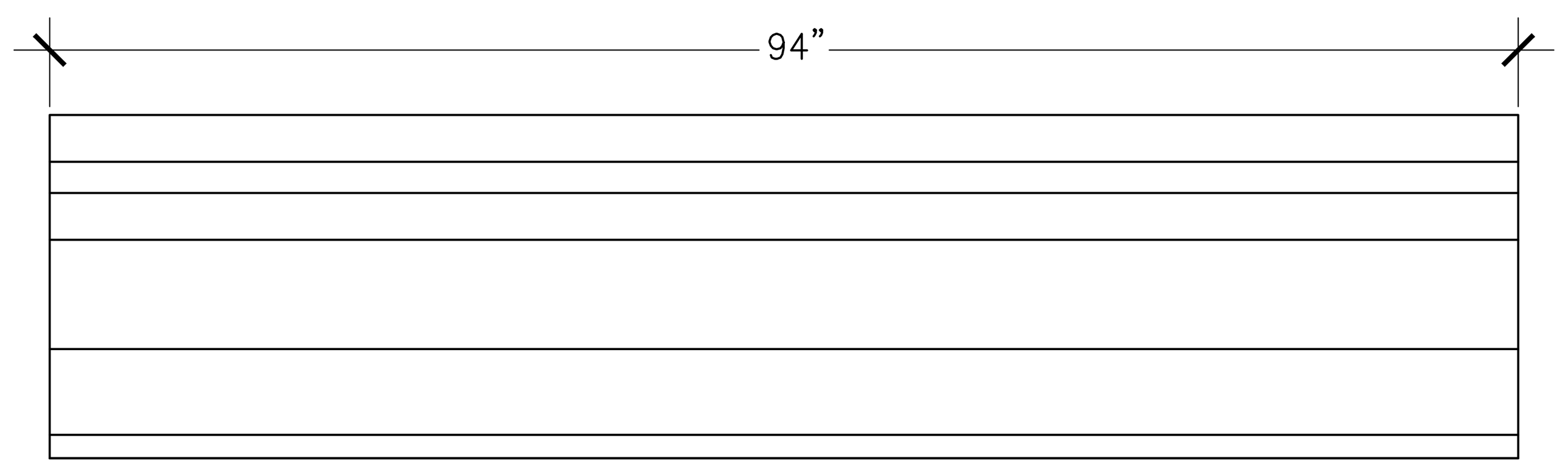
*OR APPROVED EQUAL

Haws®
1455 KLEPPE LANE
SPARKS, NEVADA 89431
(775) 359-4712 FAX (775) 359-7424
E-MAIL: HAWS@HAWSCO.COM
WEBSITE: WWW.HAWSCO.COM

ECN: 5652	REV. ECN: 5652	BY: DP	MODEL(S)	PART NUMBER 0580001171.D
DRAWN: DHP	DATE: 6/11/20	CHK'D: FV	3611FR	REVISION 1
APPROVED: FV	DATE: 03/18/21	SCALE: 1:24	DRAWING TYPE: INSTALLATION	SIZE: A — SHEET 1 OF 7

PAGE 6 OF 12

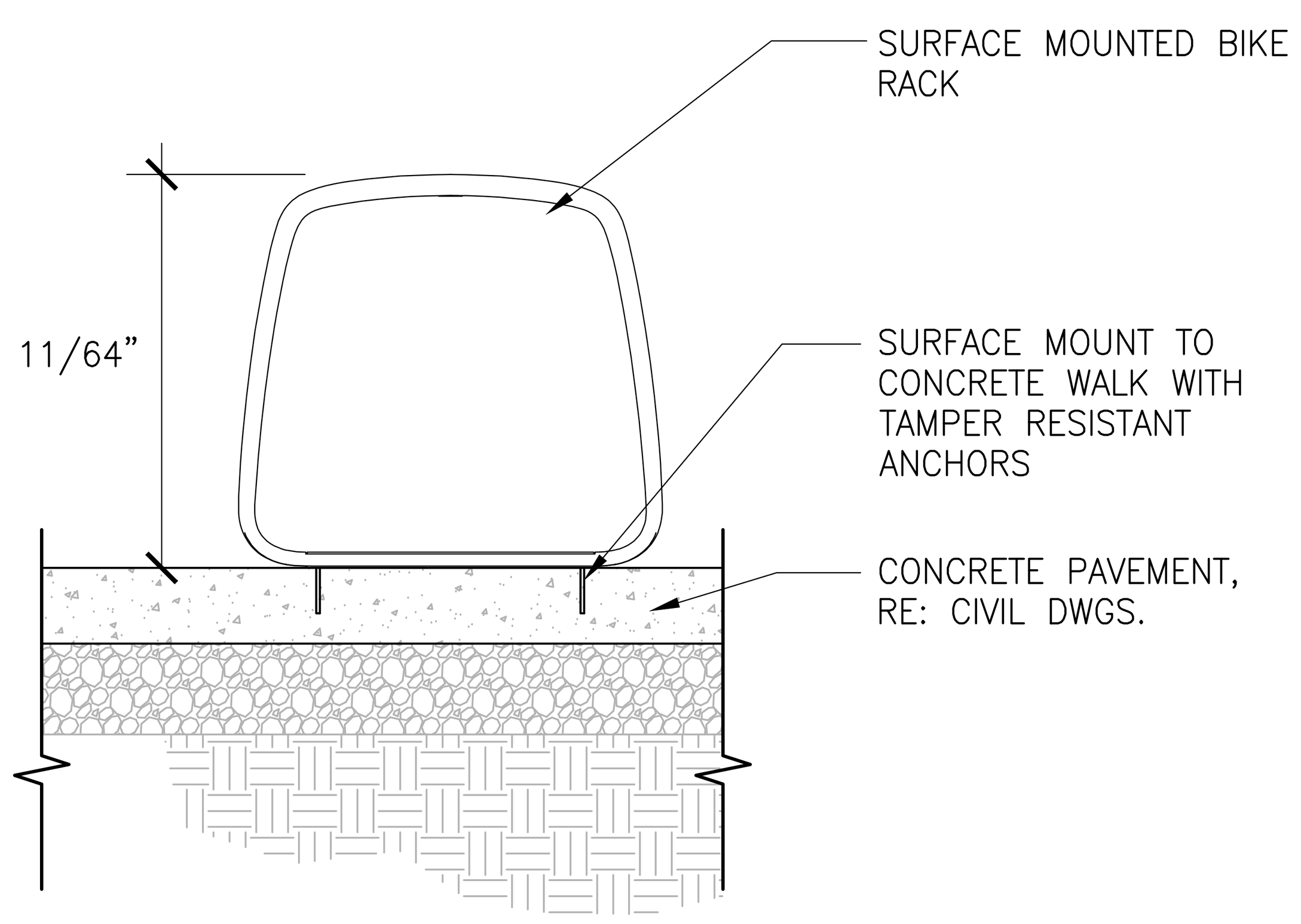
3 FREEZE RESISTANT BOTTLE FILLER AND DRINKING FOUNTAIN
SCALE: N.T.S.



186583
94" 2x4 RECYCLED
CEDAR/MINK BENCH W/BACK

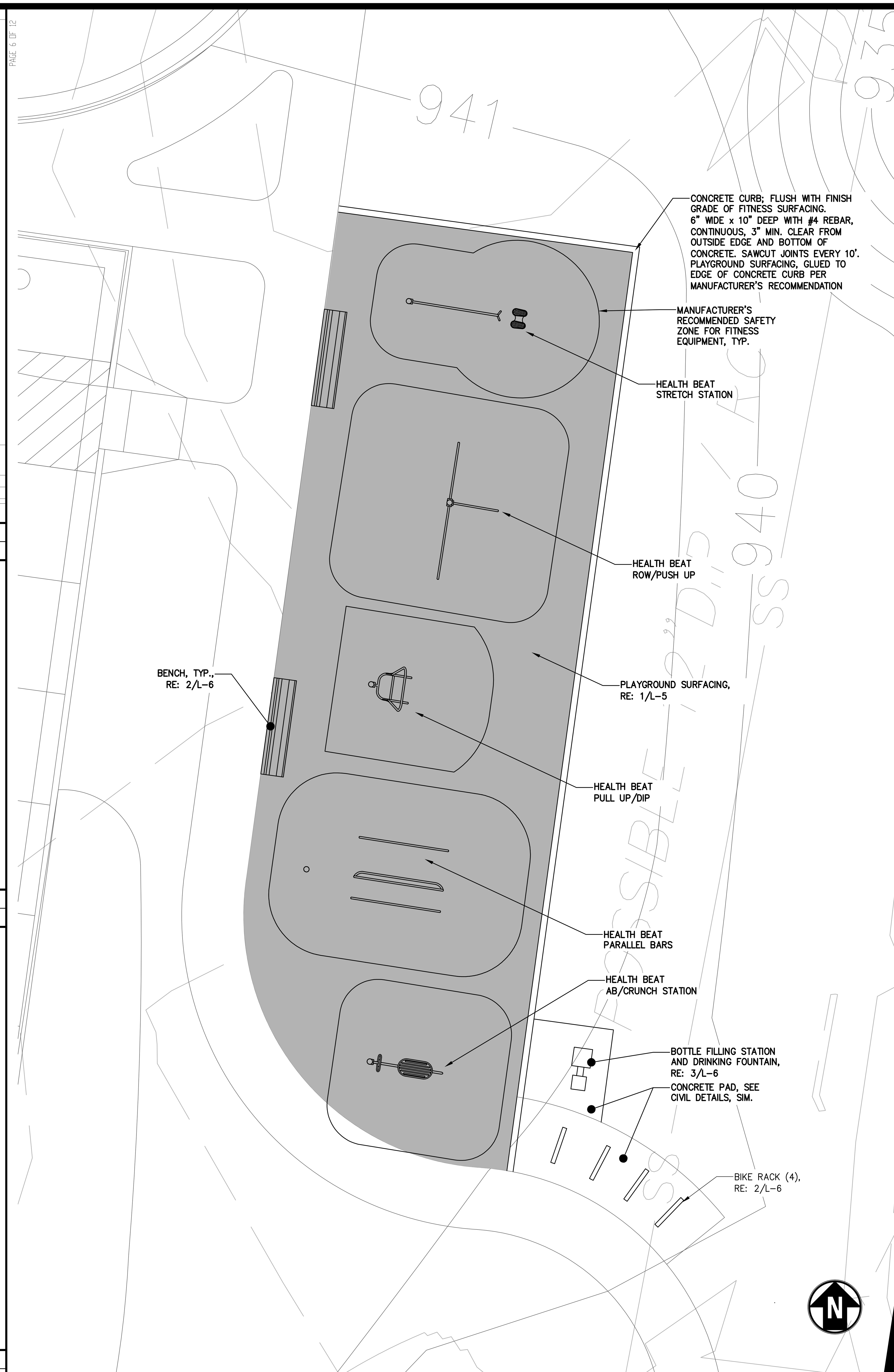
NOTE:
1. BENCH TO BE LANDSCAPE STRUCTURES WOOD-GRAIN BENCH, OR APPROVED EQUAL.
2. RECYCLED, WOOD-GRAIN POLYETHYLENE WITH BACK, 94" LENGTH DIRECT BURY.

2 WOOD-GRAIN POLYETHYLENE BENCH
PLAN — SCALE: N.T.S.



NOTE:
1. BIKE RACK TO BE LANDSCAPE FORMS RIDE SURFACE MOUNT, OR APPROVED EQUAL.
2. PROVIDE FOUR (4) BIKE RACKS SPACED AS SHOWN ON PLAN, OR AS PER MANUFACTURER'S RECOMMENDATION

1 BIKE RACK
SECTION — SCALE: 1" = 1'-0"



LEGEND
PLAYGROUND SURFACING, RE: SPECIFICATIONS

FITNESS STATION NOTES
1. BASIS OF DESIGN FOR ALL FITNESS STATION EQUIPMENT IS BASED ON LANDSCAPE STRUCTURES HEALTHBEAT EXERCISE EQUIPMENT, OR APPROVED EQUAL.

ENLARGED FITNESS STATION PLAN

GRAPHIC SCALE
0 2.5 5 10 20
(IN FEET)
1 inch = 5 ft.

100% CONSTRUCTION DOCUMENTS

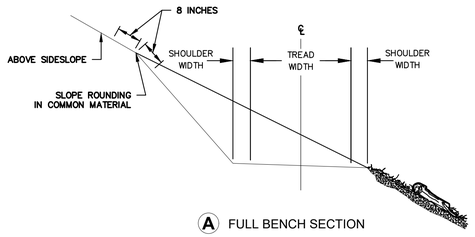
CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 www.chacompanies.com

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 26690 PATRICK N. GRAHAM 11-1-2021

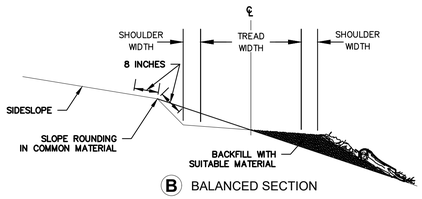
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

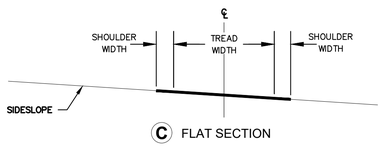
DRAWN BY	TM
CHECKED BY	PG
DATE:	11/01/2021
SCALE:	1"= 5'
JOB No.	20-LD-025 / 061694.00
SHEET NUMBER	L-6



(A) FULL BENCH SECTION



(B) BALANCED SECTION



(C) FLAT SECTION

SLOPE FINISH

REMOVE ROOTS THAT PROTRUDE FROM THE BACKSLOPE WITH DIAMETERS GREATER THAN SHOWN IN THE SLOPE AND TRAILBED FINISH TABLE.

TRAILBED FINISH

REMOVE LOOSE ROCK ON THE TRAILBED WITH A DIMENSION GREATER THAN SHOWN IN THE SLOPE AND TRAILBED FINISH TABLE.

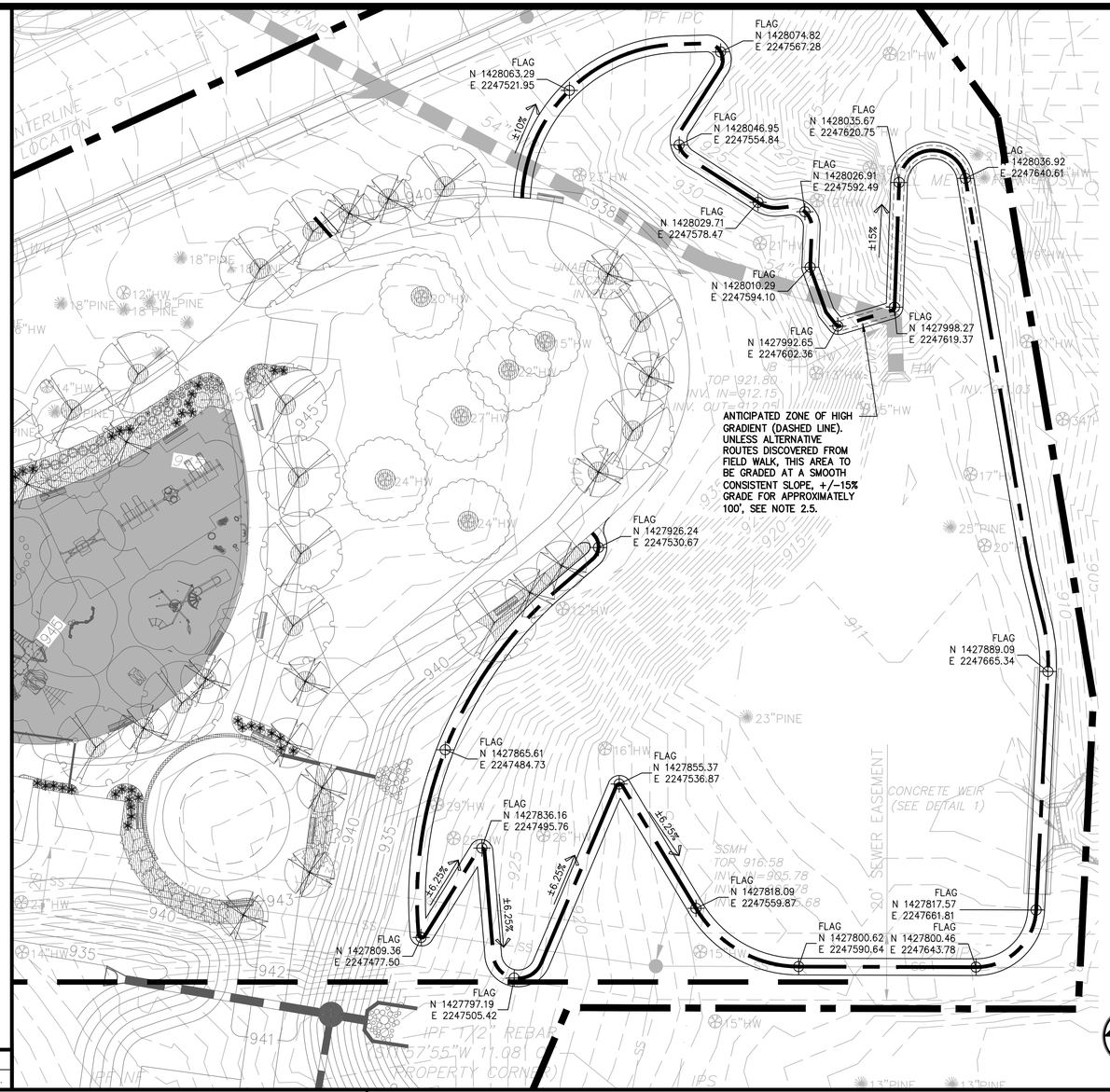
REMOVE OR REDUCE EMBEDDED ROCK THAT PROTRUDES MORE THAN THE DIMENSIONS SHOWN IN THE SLOPE AND TRAILBED FINISH TABLE.

NOTES:

1. SLASH CONSISTS OF LOGS, LIMBS, BRUSH, AND ROCKS PLACED RANDOMLY IN A WAY TO CATCH SEDIMENT MOVEMENT.
2. LIMB ALL TREES AND SHRUBS AND TAMP SLASH INTO GROUND SO THAT 80% OF SLASH IS IN CONTACT WITH THE GROUND.

3 TYPICAL TRAIL CONDITIONS

SECTION SCALE: N.T.S.



LANDSCAPE LEGEND

CRUSHED ROCK TRAIL

TRAIL CENTERLINE

TRAIL PLAN NOTES

1. TRAIL ALIGNMENT SHOWN IS FOR BIDDING PURPOSES ONLY. BASIS OF TRAIL DESIGN HAS BEEN DEVELOPED BY USING SURVEYED TOPOGRAPHY, AND APPLYING DESIRED HIKING TRAIL DETAILS AND GRADIENTS (SEE NOTE 2). ALL LAYOUT AND FINAL TRAIL ALIGNMENTS TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION (SEE NOTE 3).

2. TRAIL DESIGN NOTES:
   - 2.1. UTILIZE "LIGHT-ON-THE-LAND" APPROACH. ALL EFFORTS SHOULD BE MADE TO PRESERVE AS MUCH EXISTING LANDSCAPE AS POSSIBLE WHEN CONSTRUCTING THE CRUSHED STONE TRAIL.
   - 2.2. AVOID LARGE TREES. SURVEY SHOWN MAY NOT REPRESENT ALL SPECIMEN TREES FOUND NEAR PROPOSED TRAIL ROUTE.
   - 2.3. TYPICAL WIDTH OF TRAIL IS 5' (60")
   - 2.4. MAXIMUM SUSTAINED SLOPE IS 10%, SEE PLAN FOR ANTICIPATED GRADIENTS, PER SURVEY.
   - 2.5. MAXIMUM SLOPE IS 15%, AND SHOULD NOT BE SUSTAINED FOR MORE THAN 100 LINEAR FEET OF TRAIL. SEE PLAN FOR ANTICIPATED GRADIENTS, PER SURVEY, AND WHERE THIS CONDITION MAY OCCUR ON PLAN.
   - 2.6. MAXIMUM TRAIL CROSS SLOPE IS 2%. SEE PLAN FOR ANTICIPATED GRADIENT, PER SURVEY.

3. CONSTRUCTION NOTES:
   - 3.1. TRAIL SURFACE TO BE CRUSHED STONE USING 3/8" MINUS CRUSHER FINES, SEE SPECIFICATIONS.
   - 3.2. SURVEYOR TO FIELD LOCATE/FLAG POINTS SHOWN ON THIS PLAN PRIOR TO SITE VISIT.
   - 3.3. ENGINEER, OWNER AND CONTRACTOR TO WALK PROPOSED ROUTE TO DETERMINE SUITABILITY OF TRAIL ALIGNMENT. ALL TRAIL DESIGN NOTES (SEE NOTE 2) SHOULD BE CONSIDERED WHEN ANALYZING FINAL LAYOUT.
   - 3.4. ONCE FINAL LAYOUT IS DETERMINED, CLEAR BRUSH AND SAPLING TREES TO APPROXIMATELY 2' EACH SIDE OF TRAIL. OVERHEAD LIMBS SHOULD BE PRUNED BACK TO A HEIGHT OF 8'-10' CLEAR OVER TRAIL SURFACE.
   - 3.5. SEE DETAILS ON THIS SHEET FOR PROPOSED TRAIL DESIGN CONDITIONS.
   - 3.6. USE AGGREGATE THAT IS UNIFORMLY MIXED AT OPTIMUM MOISTURE CONTENT AND SPREAD AND COMPACT IN LAYERS TO FINAL THICKNESS AND WIDTH SHOWN ON PLANS.
   - 3.7. COMPACT ALL DISTURBED SOIL AND TRAIL MATERIALS. OBTAIN COMPACTION BY ONE OF THE FOLLOWING METHODS:
     - 3.7.1. BY HAND, USING NON-MECHANIZED COMPACTION TOOLS OVER THE FULL AREA OF EACH LAYER UNTIL VISUAL DISPLACEMENT CEASES;
     - 3.7.2. BY MECHANICAL VIBRATORY COMPACTORS OVER THE FULL AREA OF EACH LAYER UNTIL VISUAL DISPLACEMENT CEASES, BUT NOT FEWER THAN THREE COMPLETE PASSES;
     - 3.7.3. BY USING A ROLLER OR MECHANICAL HAND TAMPER UNTIL THE DENSITY IS AT LEAST 90 PERCENT OF THE MAXIMUM DENSITY, AS DETERMINED BY AASHTO T 99, METHOD C OR D.
   - 3.8. UPON COMPLETION, CONTRACTOR SHALL SEED, FERTILIZE AND MULCH ANY DISTURBED AREA.

4.0 SUBMITTALS:

SUBMIT 3/8" MINUS CRUSHER RUN FOR REVIEW USING THE FOLLOWING GRADATION:

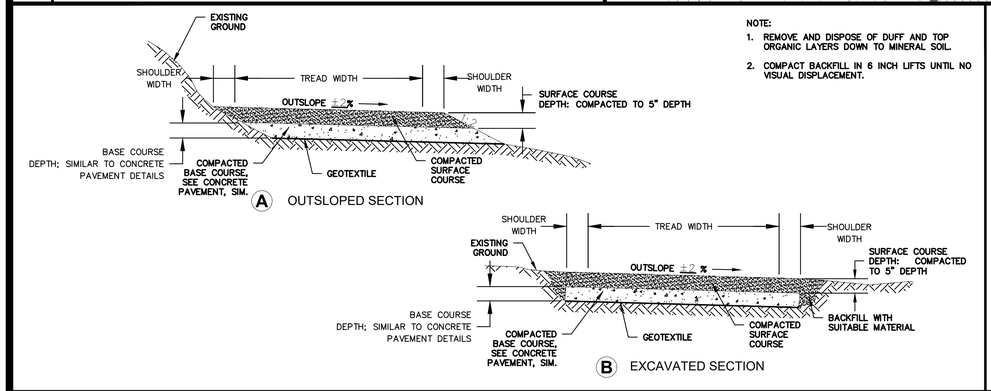
SIEVE SIZE/ PARTICLE SIZE	PERCENT PASSING
3/8"	100%
#4	90-100%
#8	55-80%
#16	40-70%
#30	25-50%
#200	6-15%

TRAIL PLAN

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.



(A) OUTSLOPED SECTION

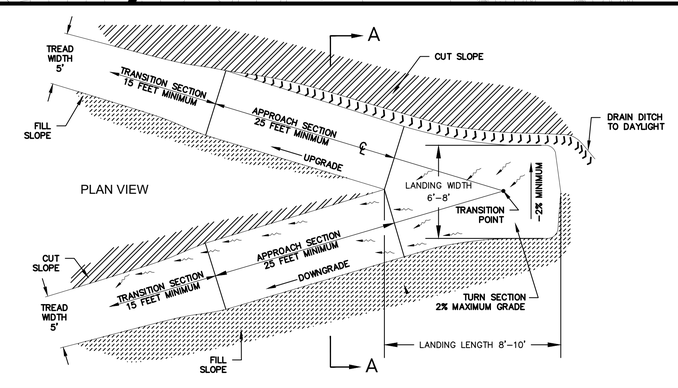
(B) EXCAVATED SECTION

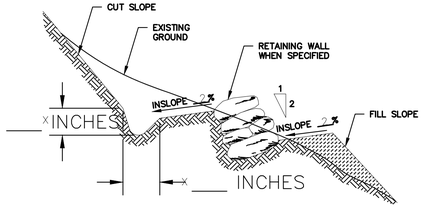
NOTE:

1. REMOVE AND DISPOSE OF DUFF AND TOP ORGANIC LAYERS DOWN TO MINERAL SOIL.
2. COMPACT BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.

2 TYPICAL TRAIL SECTION

SECTION SCALE: N.T.S.





SECTION A-A

1 SWITCHBACK CONDITION

PLAN/SECTION SCALE: N.T.S.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 - www.chacompanies.com

GEORGIA REGISTERED No. 28696 PROFESSIONAL ENGINEER 11-1-2021 PATRICK N. GRAHAM

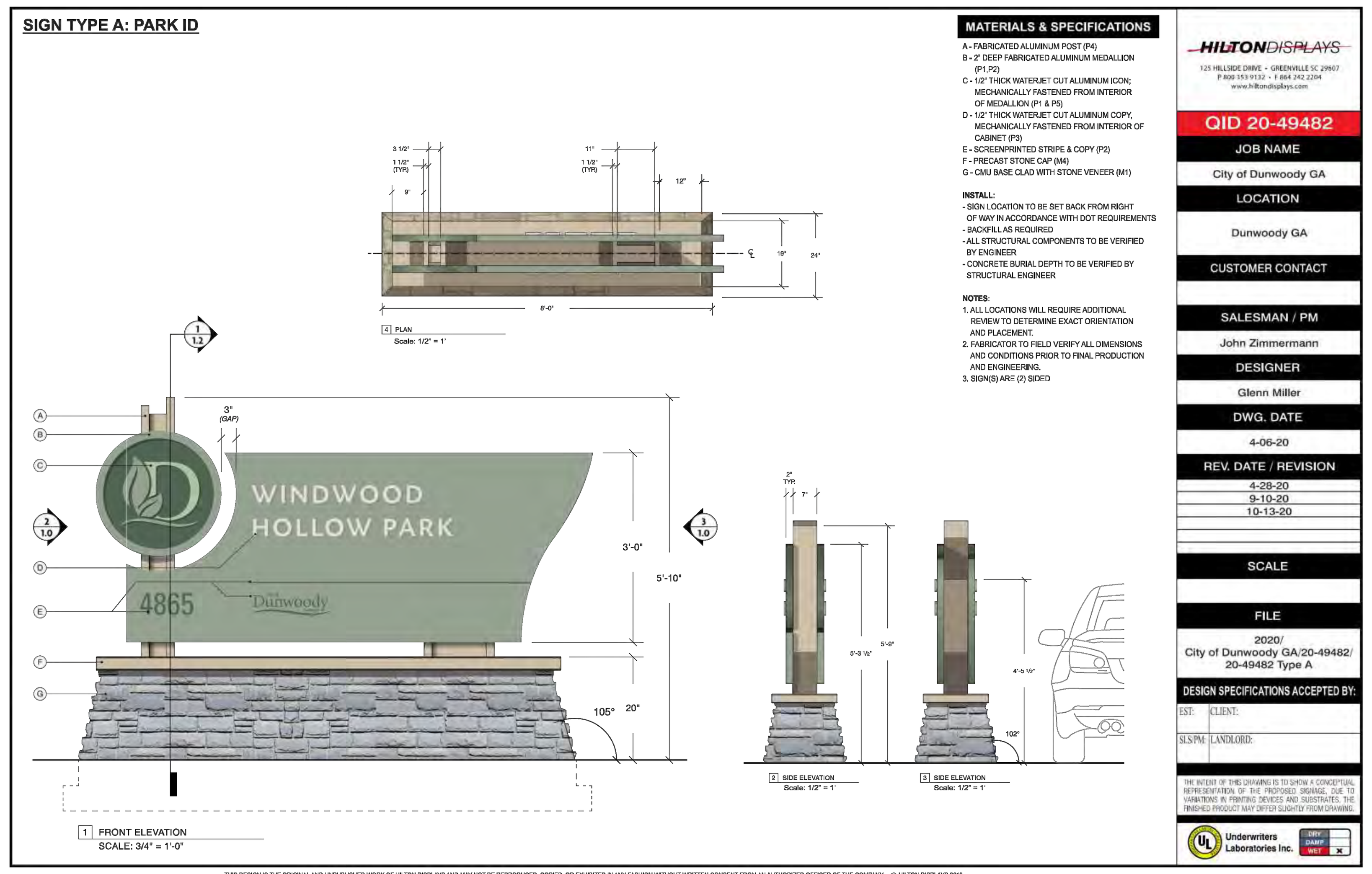
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

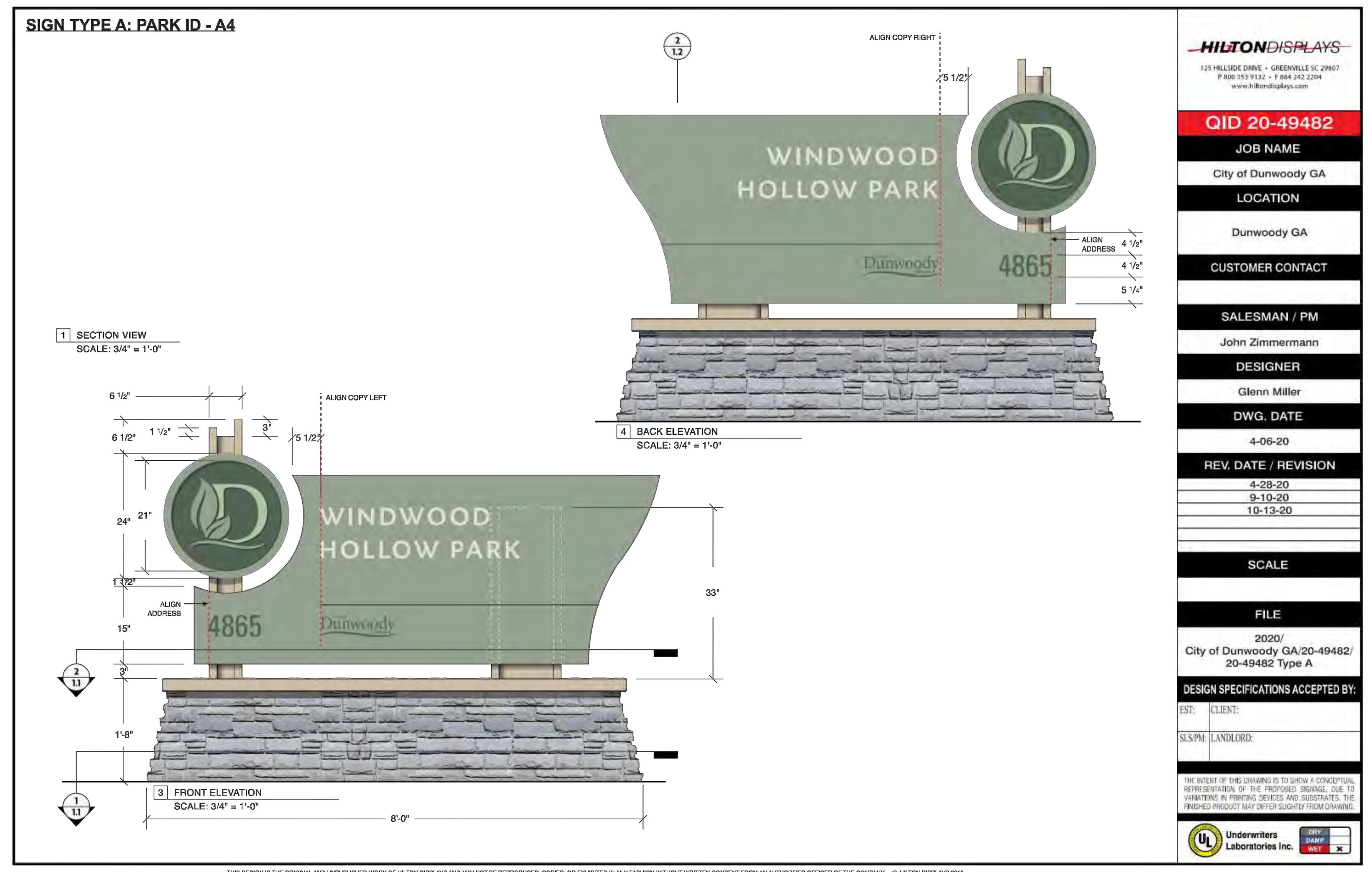
REVISIONS	BY

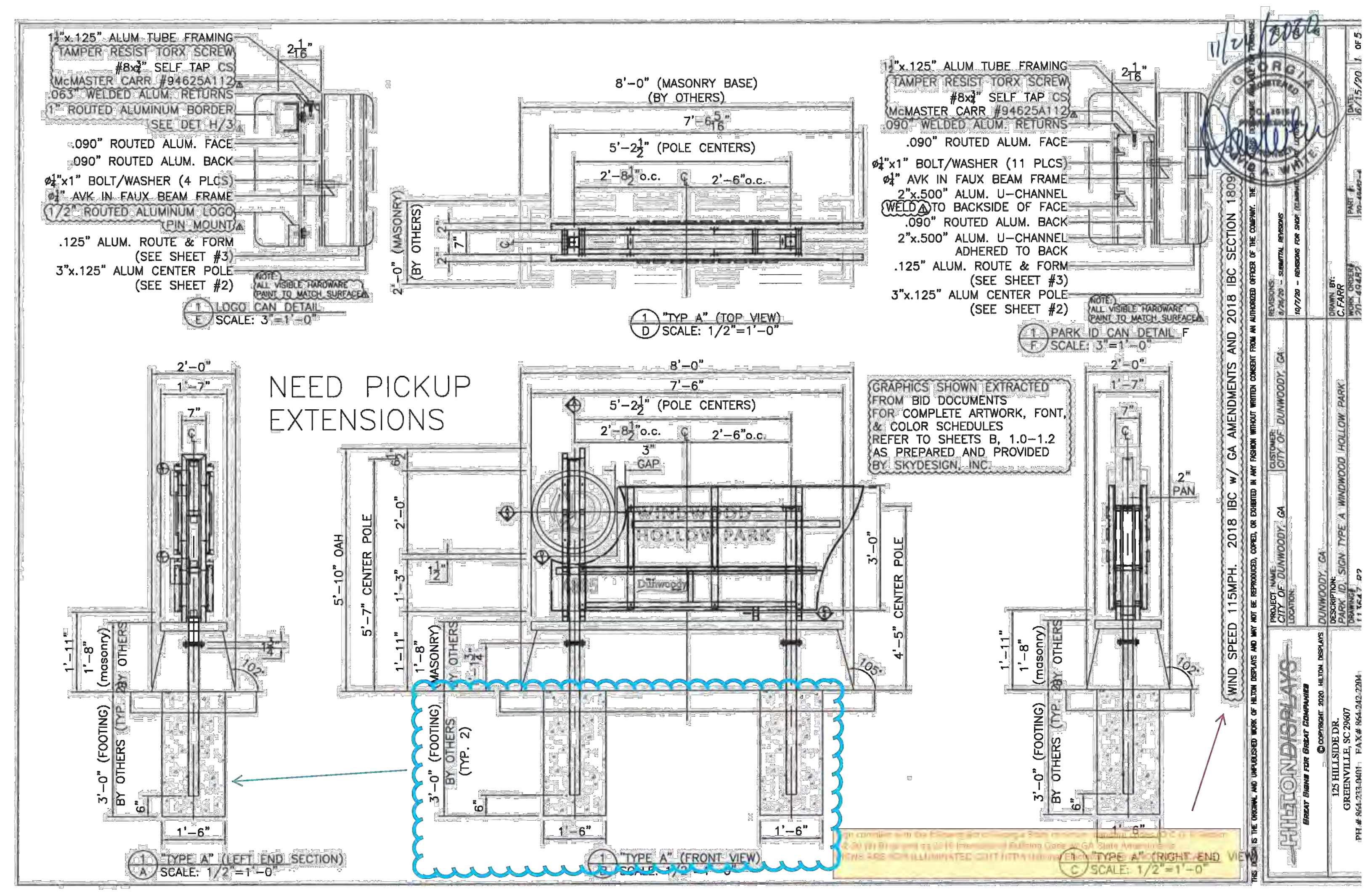
DRAWN BY: TM
CHECKED BY: PG
DATE: 11/01/2021
SCALE: 1" = 20'
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
L-7

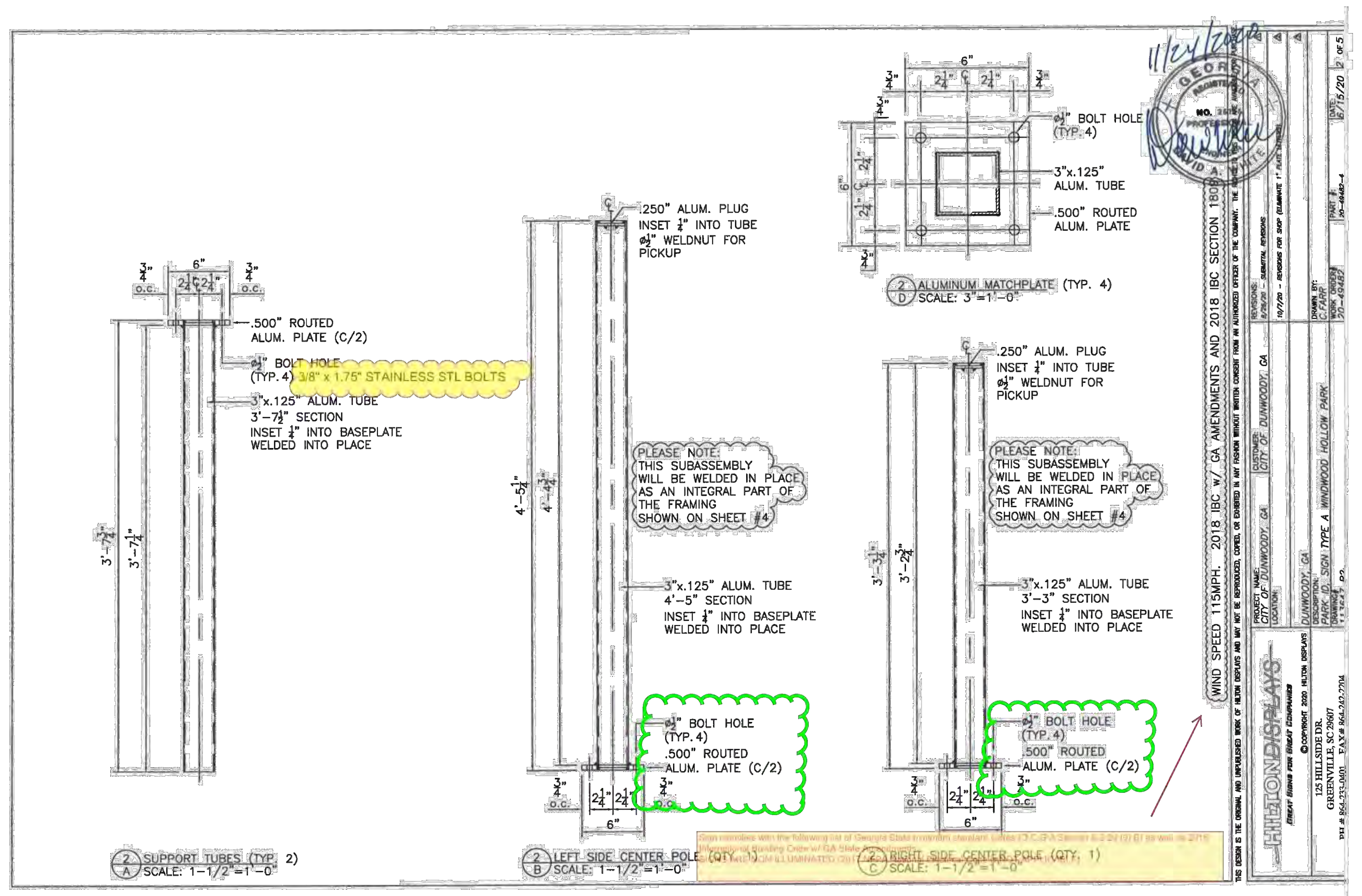
100% CONSTRUCTION DOCUMENTS

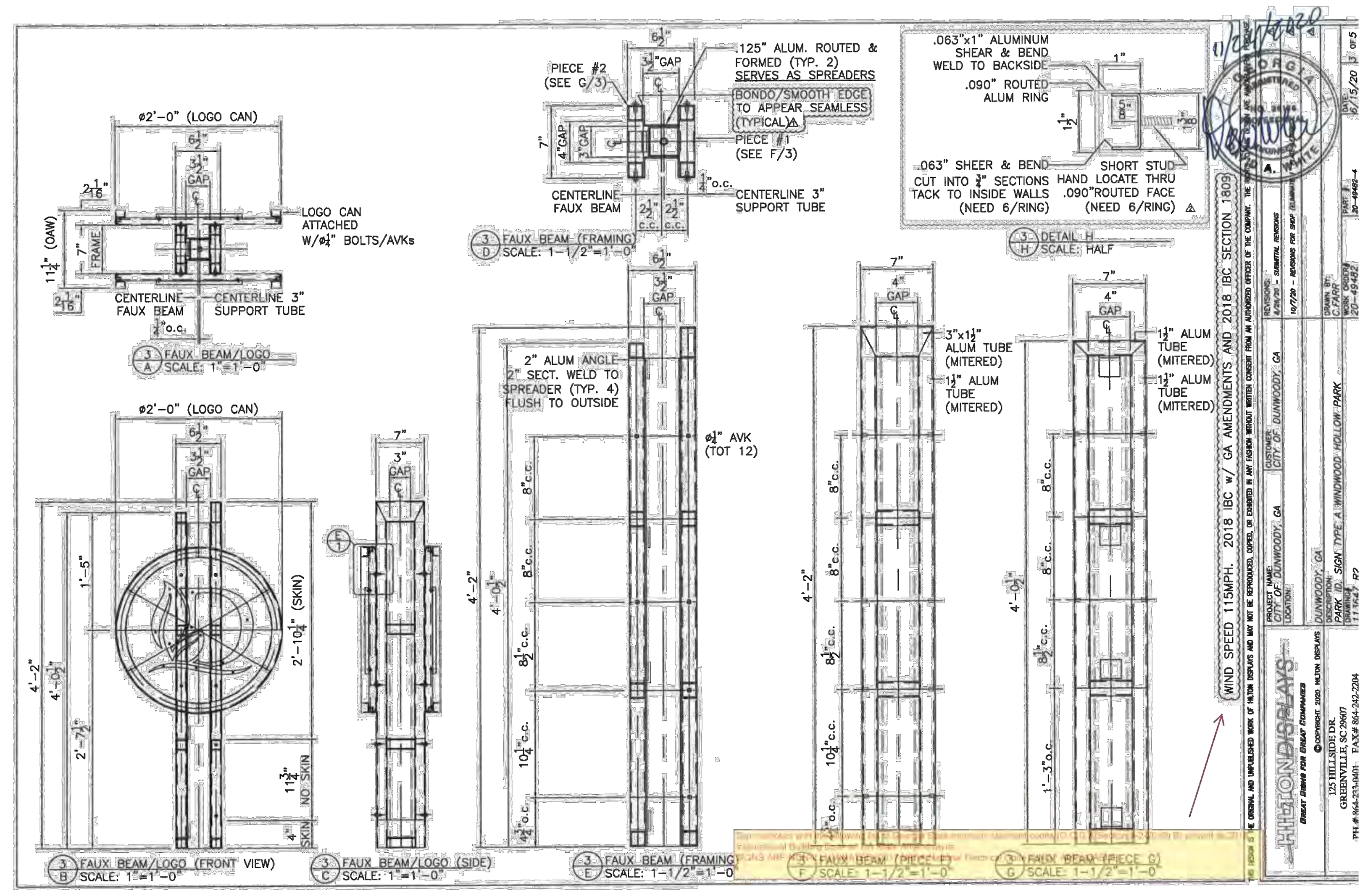
L-1.DWG











PARK ENTRY SIGN AND KIOSK NOTES

1. DESIGN INTENT, PLANS AND SPECIFICATIONS ATTACHED TO THIS SHEET HAS BEEN PROVIDED BY THE CITY OF DUNWOODY AS A STANDARD DESIGN AND BASIS OF BIDDING FOR THE PARK ENTRY SIGN AND TRAIL KIOSK.
2. SUBMIT SHOP DRAWINGS FOR REVIEW.
3. SEE PLANS FOR LOCATION OF EACH ITEM.
4. PROVIDE TWO (2) TYPE 'A' ENTRY SIGNS
5. PROVIDE ONE (1) KIOSK

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 . www.chacompanies.com

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 26690 PATRICK N. GRAHAM 11-1-2021

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

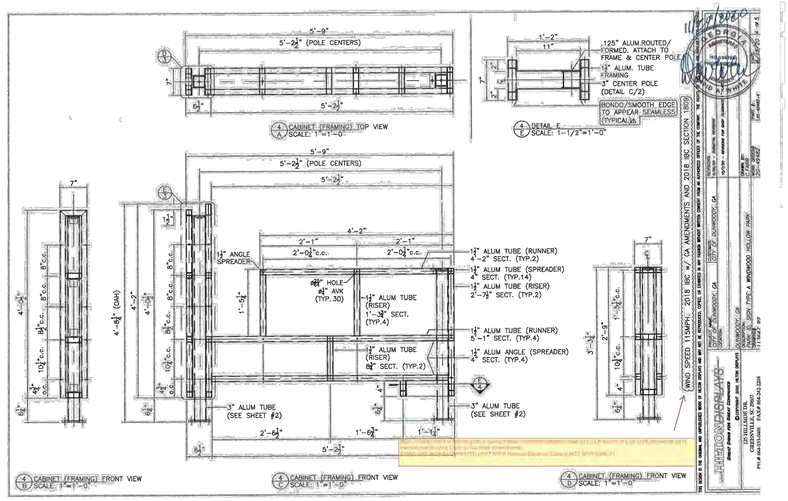
REVISIONS	BY

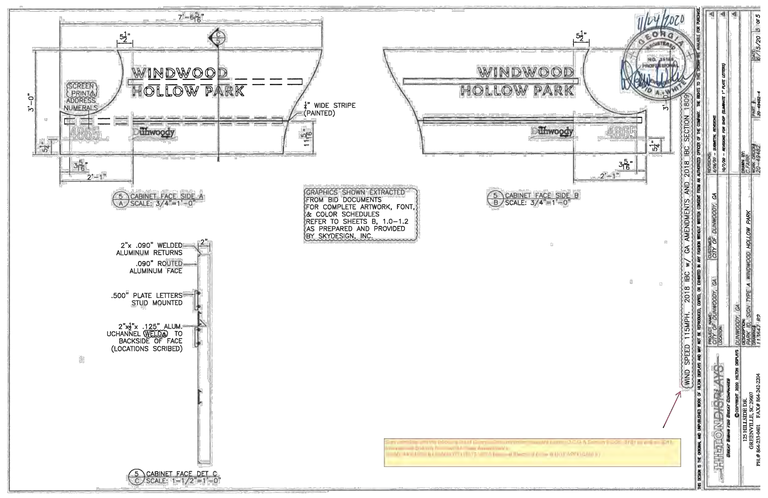
DRAWN BY: TM
CHECKED BY: PG
DATE: 11/01/2021
SCALE: 1"= ##'
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
L-8

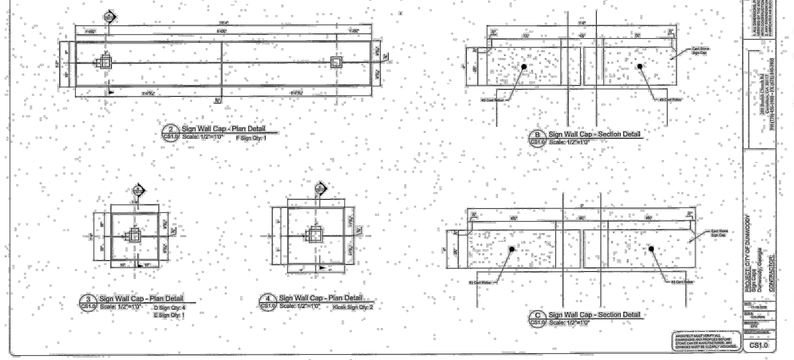
100% CONSTRUCTION DOCUMENTS

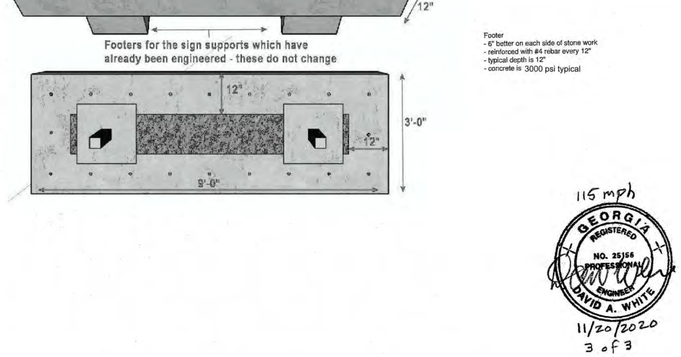
USER 3512 – Nov 01, 2021 – 11:08am V:\Projects\ANY\K5\061694.000\09_Design-DWG\Drawings\01_Sheets\L-1.dwg – LAYOUT: L-8 VERSION: LAND DEVELOPMENT-41352

L-1.DWG









PARK ENTRY SIGN AND KIOSK NOTES

1. DESIGN INTENT, PLANS AND SPECIFICATIONS ATTACHED TO THIS SHEET HAS BEEN PROVIDED BY THE CITY OF DUNWOODY AS A STANDARD DESIGN AND BASIS OF BIDDING FOR THE PARK ENTRY SIGN AND TRAIL KIOSK.
2. SUBMIT SHOP DRAWINGS FOR REVIEW.
3. SEE PLANS FOR LOCATION OF EACH ITEM.
4. PROVIDE TWO (2) TYPE 'A' ENTRY SIGNS
5. PROVIDE ONE (1) KIOSK

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 - www.chacompanies.com

GEORGIA REGISTERED No. 25690 PROFESSIONAL 11-1-2021 ENGINEER PATRICK N. GRAHAM

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY	TM
CHECKED BY	PG
DATE:	11/01/2021
SCALE:	1"= ##'
JOB No.	20-LD-025 / 061694.00

SHEET NUMBER

L-9

100% CONSTRUCTION DOCUMENTS

L-1.DWG

SIGNAGE PACKAGE NOTES AND FINISHES

PAINT SCHEDULE

- P1 — Benjamin Moore *460 Herb Bouquet*
- P2 — Benjamin Moore *447 Holiday Wreath*
- P3 — Benjamin Moore Exterior Ready-Mixed *E-77 Sail Cloth*
- P4 — Benjamin Moore *HC-80 Bleeker Beige* *Thoroughcoat Finish*
- P5 — Matthews Paint *MP09900 Greenhorn*
- P6 — Matthews Paint *MP11372 Urban Forest*

VINYL SCHEDULE

- V1 — Oracal *951-010 - White*
- V2 — 3M Digital Print, Matte Finish, UV Laminate, Exterior Grade

MATERIAL SCHEDULE

- M1 — Landmark Stone - Chestnut Limestone *Chestnut Limestone | www.glengarybrick.com | 859-335-9638*
- M2 — Aluminum
- M3 — Magnetic Digital Print
- M4 — Continental Cast Stone - Smooth Face *1103 Whitestone | continentalcaststone.com/colors/default.htm*

HARDWARE SCHEDULE

- H1 — Outdoor Enclosed Bulletin Board *24W x 36H www.alphabetsigns.com/signs/outdoor-enclosed-bulletin-board-24w-x-36h.html*

1 Project Finishes

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 0123456789

TYPEFACE 1 - Today Sans Serif Medium

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 0123456789

TYPEFACE 2 - Univers 55 Roman

2 Project Typefaces

GENERAL NOTES

- FIELD SURVEY IS REQUIRED PRIOR TO PRODUCING FINAL SHOP DRAWINGS TO VERIFY ARCHITECTURAL INTEGRITY & LAYOUT. ALL DRAWINGS IN THIS PACKAGE ARE FOR INTENT ONLY. NO DIMENSIONS HAVE BEEN CONFIRMED. RESPONSIBILITY FOR ALL FIELD VERIFICATION LIES WITH SIGN FABRICATOR.
- ALL INSTALLATION/MOUNTING TO COMPLY WITH LOCAL ORDINANCE/ADA.

TYPICAL NOTES

- REFER TO DRAWING NOTES FOR MATERIAL THICKNESS AND/OR DIAMETER UNLESS SPECIFICALLY NOTED IN THE FINISH SCHEDULE.
- BID ALTERNATE PRICING SHOULD BE INCLUDED ON BID SUMMARY FORM IN THE CORRESPONDING BID ALTERNATIVE COLUMN.

ASSEMBLY SPECIFICATIONS

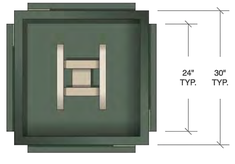
- ALL HARDWARE TO BE SECURED WITH LOCTITE OR EQUIVALENT TO DETER VANDALISM.

FABRICATION SPECIFICATIONS

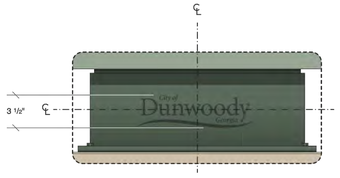
- SEAMLESS CONSTRUCTION; ALL SEAMS/WELDS TO BE FILLED, GROUND, SANDED, AND FINISHED SMOOTH.
- NO VISIBLE FASTENERS UNLESS THEY ARE SPECIFICALLY PART OF DESIGN INTENT.
- NO ALTERNATES MAY BE INTRODUCED UNLESS CLEARLY OUTLINED BY CONTRACTOR AND APPROVED BY OWNER AND DESIGNER.
- ALL CABINETS TO BE .125" ALUMINUM STOCK.
- ALL CHANNEL LETTERS TO BE MINIMUM .063" ALUMINUM STOCK RETURNS AND .125" FRONT AND REAR FACES UNLESS OTHERWISE SPECIFIED.
- CAP ENDS OF ALL TUBING UNLESS OTHERWISE SPECIFIED.

3 General Notes

4 Project Logos



4 PARK KIOSK - PLAN VIEW
SCALE: 3/4" = 1'-0"



5 PARK KIOSK - DETAIL VIEW
SCALE: 3/4" = 1'-0"

MATERIALS & SPECIFICATIONS

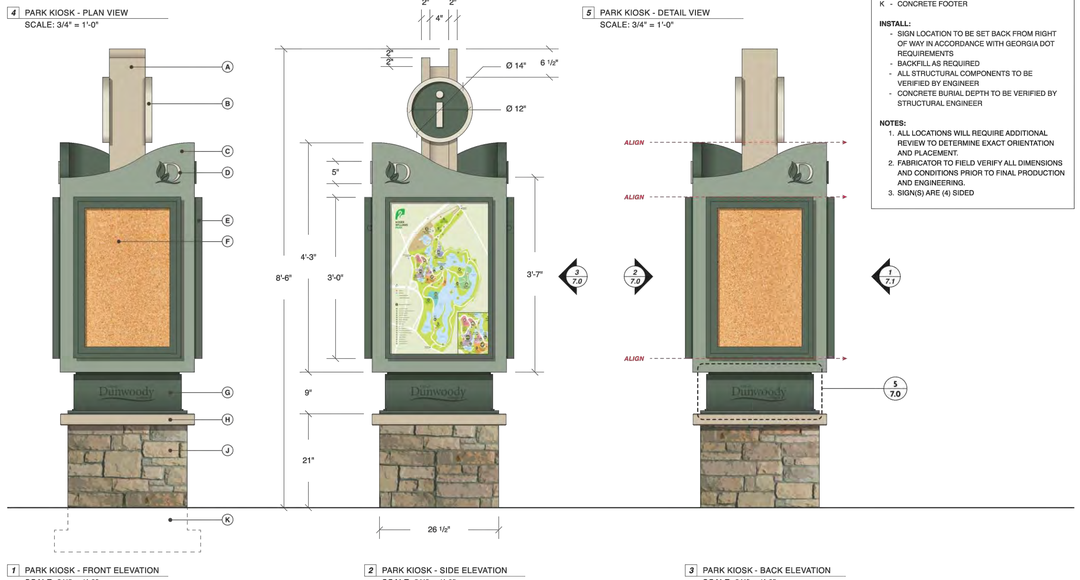
- A - FABRICATED ALUMINUM POST (P4)
- B - 2" DEEP FABRICATED ALUMINUM MEDALLION (P2, P3)
- C - FABRICATED ALUMINUM CABINET (P1 & P2)
- D - 1/2" THICK WATERJET CUT ALUMINUM ICON, MECHANICALLY FASTENED FROM BACK SIDE (P2 & P3)
- E - FABRICATED ALUMINUM CABINET WITH APPLIED DIGITAL PRINT (V2) *(FINAL ARTWORK TO BE PROVIDED BY CLIENT)*
- F - BULLETIN BOARD (H1)
- G - FABRICATED ALUMINUM CABINET (P2) WITH SCREENPRINTED LOGO (P6)
- H - PRECAST STONE CAP (M4)
- J - CMU BASE CLAD WITH STONE VENEER (M1)
- K - CONCRETE FOOTER

INSTALL:

- SIGN LOCATION TO BE SET BACK FROM RIGHT OF WAY IN ACCORDANCE WITH GEORGIA DOT REQUIREMENTS
- BACKFILL AS REQUIRED
- ALL STRUCTURAL COMPONENTS TO BE VERIFIED BY ENGINEER
- CONCRETE BURIAL DEPTH TO BE VERIFIED BY STRUCTURAL ENGINEER

NOTES:

1. ALL LOCATIONS WILL REQUIRE ADDITIONAL REVIEW TO DETERMINE EXACT ORIENTATION AND PLACEMENT.
2. FABRICATOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO FINAL PRODUCTION AND ENGINEERING.
3. SIGN(S) ARE (4) SIDED



1 PARK KIOSK - FRONT ELEVATION
SCALE: 3/4" = 1'-0"

2 PARK KIOSK - SIDE ELEVATION
SCALE: 3/4" = 1'-0"

3 PARK KIOSK - BACK ELEVATION
SCALE: 3/4" = 1'-0"

sky design
55 IVAN ALLEN JR. BLVD, SUITE 100 ATLANTA, GA 30308 P: 404.688.8200 F: 404.688.8233 W: SKYDESIGNGRAPHICS.COM

PROJECT #: 31538.00
TITLE: City of Dunwoody Park Signage
SIGN TYPE: Park Kiosk
REV.#: DATE: DRAWN BY:
0 12.02.2019 CW/TC

7.0

Project Specifications

City of Dunwoody Park Signage
Project #31538.00

The following design documents are for the sole purpose of conveying design intent and are not intended for construction purposes. The fabricator may make recommendations and/or changes to the details as shown in the drawings with written approval of the Owner's representative. The fabricator assumes all responsibility for signage integrity, engineering, field verification and measurements, etc. as part of the bid submittal process.

Sky Design and the Owner shall review all shop drawings for conformance with the design intent of these drawings only and will not be held responsible or liable for any results of construction from working drawings, materials selection, shop drawings, or any other agreements.

REVIEW

- **Site:** The fabricator is responsible for verifying all site conditions with regards to fabrication and installation before manufacture of signage. Any conditions that would impede the proper and timely completion of the work should be presented to the Owner's representative in writing.
- **Sign Location Plans:** Locations shown on the Sign Location Plans are for general placement. The fabricator shall confirm each sign location with the Owner's representative and locate via stake and flag for verification.
- Fabricator shall notify the Owner's representative of any discrepancies in the design documents or graphics schedule as well as discrepancies in field dimensions or field conditions (drainage pipes, etc.) that would require changes in sign construction details. All discrepancies shall be brought to the attention of the Owner's representative prior to production.
- Any conflicting conditions with signage that are not coordinated prior to the manufacturing of the scope of work will need to be addressed in the punchlist phase and will be the responsibility of the vendor.

ENGINEERING

- **Footings:** All footings to be verified by structural engineer as part of scope. Drawings show footings for intent only. An Engineer's Stamp is to be obtained when necessary to comply with permits and/or codes.
- **Wind load:** Exterior signs shall be designed to withstand wind pressure loading to meet or exceed all current code requirements for the state of Georgia. Internal framework should also provide maximum capacity to avoid any surface oil canning, curvature, or deviations.
- **Thermal Deformations:** Design, fabricate, and install component parts to provide for expansion and contraction over a temperature range for the material of 150 degrees Fahrenheit (83.3 degrees Celsius), without buckling, oil canning, sealant joint failure, glass breakage, undue stesss on members or anchors, and other detrimental effects.

ARTWORK
All enlarging and reducing of supplied artwork images is the responsibility of the signage fabricator. Any discrepancies after enlarging or reducing vs. original artwork are to be addressed with Owner's representative prior to reproduction. Refer to the design documents for reference as to what artwork will be provided. Sky Design will not submit electronic artwork for contractors use in shop drawings except for custom created logos, icons, typography, etc. Artwork for general fabrication items will not be submitted so please account for this in your time frames and general costs.

SUBMITTALS
Color samples, material samples, submittals, copy layouts, and working drawings are to be provided for approval by the Owner's representative and Owner prior to manufacture. Full size copy layouts will also be required as needed.

- **Shop Drawings** are the responsibility of the fabricator for each of the disciplines contained within and are to include all necessary dimensions drawn to scale, details, internal mechanicals, joint connections, hidden connections, anchorage to footings, section views as needed, etc. These must be submitted as **one comprehensive package** to be reviewed and approved prior to beginning any construction. **Scans or copies of the enclosed design documents with contractor title block will not be accepted for approval as working drawings.** The sign fabricator is responsible for all aspects of fabrication including engineering, installation techniques and performance, as well as coordination with site contractors and related trades.
- **Paint:** 3 samples of each color to be submitted on minimum 4" x 4" plate. One will be returned; the others will be retained for file references. All paints used must retain a minimum 5-year warranty for interior and exterior signage. This includes no cracking, flaking, or fading. Exterior paints should be 2-part catalyst hardened urethane, base coat, top coat, satin finish unless otherwise specified.
- **Mock-ups:** samples required for review and approval will be listed on Bid Summary Form.
- **Vinyl:** 3 samples of each color to be submitted as a minimum 4" x 4" submittal. All vinyl is to be 3M Scotchcal graphic vinyl, or Gerber equivalent. First surface application unless otherwise specified on drawings.
- **Inkjet and/or Printed Wallcovering:** 1 proof of each type of inkjet graphic to be submitted at full-size. For large format graphics, a minimum 12" x 12", full size portion should be submitted, along with a smaller-scaled full layout of each design/image. Proofs are to be of equal or greater reproduction quality than the original artwork provided. All inkjet graphics are to be printed on 3M material or equivalent using pigment-based ink to prevent fading and discoloration. If necessary, laminates on printed vinyl are to be 3M material or equivalent. All inkjet graphics to be matte laminated, unless otherwise specified. Warranty information for all inkjet applications to be provided at no less than five years. If a matte laminate is specified for use over printed wallcovering, then a liquid laminate must be used. All submittals must be provided on the material specified, along with the laminate (if specified), for approval.

MATERIALS

- All wood, stone, brick or brick veneer components to be sealed to protect against decay, mildew, and discoloration
- All aluminum components and panels to have a minimum wall thickness of .125" or greater
- The interior of all illuminated cabinets is to be painted bright white.

INSTALLATION

- Post and Panels in concrete or pavement to be installed via core drill footing and backfill.
- All breakaway details to conform to GA DOT standard requirements.
- Exterior ADA signs containing Braille should be produced using exterior grade photopolymer.
- Pin mounted letters should be set in Hilti epoxy or equivalent to deter theft and vandalism. Exterior pin mounted letters should be set in Hilti epoxy or equivalent and sealed with silicone or equivalent waterproofing sealer.
- Signage design and installation for this project must conform to all federal, state, and city regulations and ordinances. It is the responsibility of signage fabricator to submit drawings to the proper agencies for review and approval prior to construction. **It is also the responsibility of the signage fabricator to obtain the necessary permits and approvals prior to construction.**
- Footings to be Georgia stamped engineered footings with backfill as needed.
- **It is the responsibility of the signage fabricator to include and perform all priming work as needed for wallcovering/graphics unless specifically stated as an exclusion in the vendor bid.**
- **Final electrical hook-up to be completed by the vendor.**
- Vendor to include painted aluminum trimcap for all lit channel letters.

SIGNAGE PROTECTION
Fabricator to coordinate protection of all signs until punch list is completed by Owner.

Fabricator to be responsible for all equipment used to install signage, including but not limited to lifts, swing stages, equipment vehicles, and temporary attachments. It is the responsibility of the fabricator to ensure that all penetrations into all concrete, precast columns, beams, or building façades do not affect the structural integrity of the reinforcement within. Should damage occur to signage and/or the building structure/façade as a result of the signage installation process, it is the continued responsibility of the fabricator to manage the resolution process with all necessary parties until an agreed-upon solution is reached and damage is repaired. sky design holds zero liability for damages incurred to owner or contractor by owner or contractor on site.

WARRANTY

- Fabricator warrants work against failure due to faulty materials, workmanship, and design for a period of five years from date of substantial completion.
- Fading, cracking, oil canning, peeling, delaminating, rusting, corroding, and structural failure, including distortion, will be construed to mean failure due to faulty materials and workmanship.
- All products, materials, adhesives, paints, etc. shall be covered by standard warranty. Failures during the warranty period shall be repaired or replaced to the satisfaction of the Owner.

PROPRIETARY INFORMATION
Sky Design shall have the right to include a credit line on completed designs or any visual representation of drawings, models, sketches, photographs, etc. created by Sky Design in the development of this signage program. The credit shall be included in any publication of the designs by the Owner or by others.

sky design
55 IVAN ALLEN JR. BLVD, SUITE 100 ATLANTA, GA 30308 P: 404.688.8200 F: 404.688.8233 W: SKYDESIGNGRAPHICS.COM

PROJECT #: 31538.00
TITLE: City of Dunwoody Park Signage
SIGN TYPE: Project Specifications
REV.#: DATE: DRAWN BY:
0 12.02.2019 CW/TC

C

PARK ENTRY SIGN AND KIOSK NOTES

1. DESIGN INTENT, PLANS AND SPECIFICATIONS ATTACHED TO SHEETS L-8 & L-9 HAVE BEEN PROVIDED BY THE CITY OF DUNWOODY AS A STANDARD DESIGN AND BASIS OF BIDDING FOR THE PARK ENTRY SIGN AND TRAIL KIOSK.
2. SUBMIT SHOP DRAWINGS FOR REVIEW.
3. SEE PLANS FOR LOCATION OF EACH ITEM.
4. PROVIDE TWO (2) TYPE 'A' ENTRY SIGNS
5. PROVIDE ONE (1) KIOSK

1 CITY STANDARD TRAIL KIOSK
ELEVATION/SECTION
SCALE: N.T.S.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 - www.chacompanies.com

GEORGIA REGISTERED No. 28696 PROFESSIONAL 11-1-2022 ENGINEER PATRICK N. GRAHAM

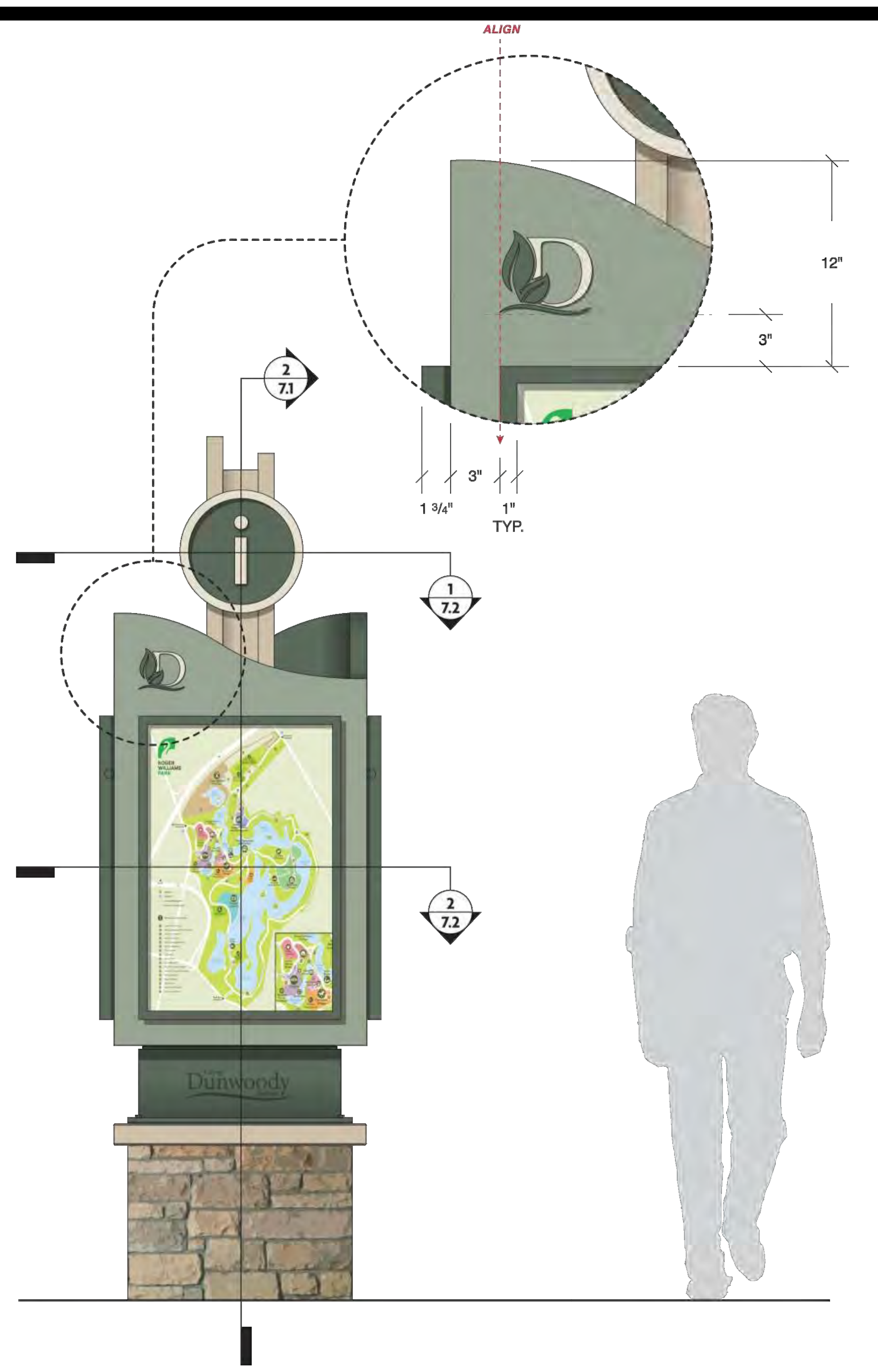
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

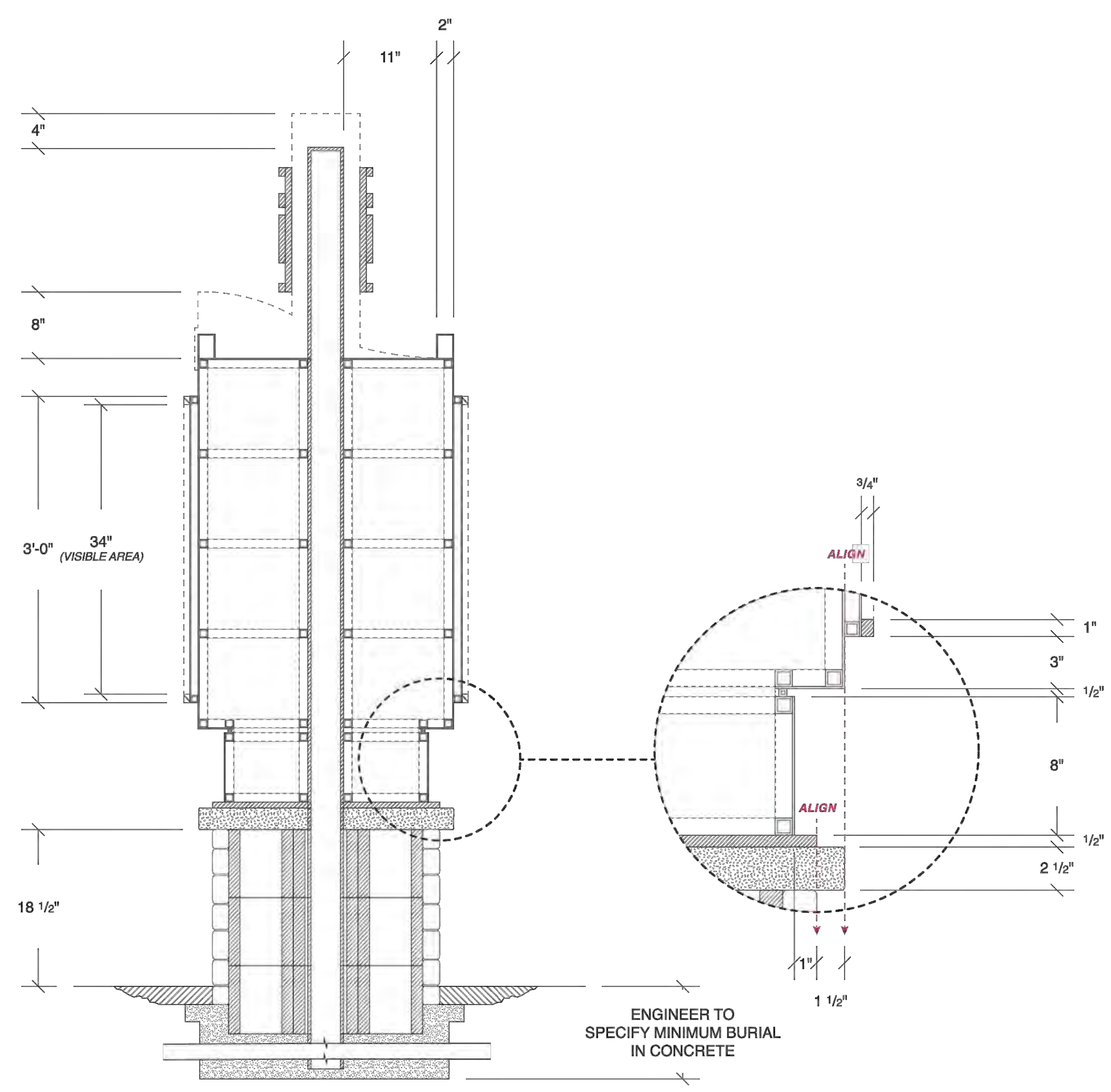
DRAWN BY: TM
CHECKED BY: PG
DATE: 11/01/2021
SCALE: 1" = ##'
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
L-10

100% CONSTRUCTION DOCUMENTS

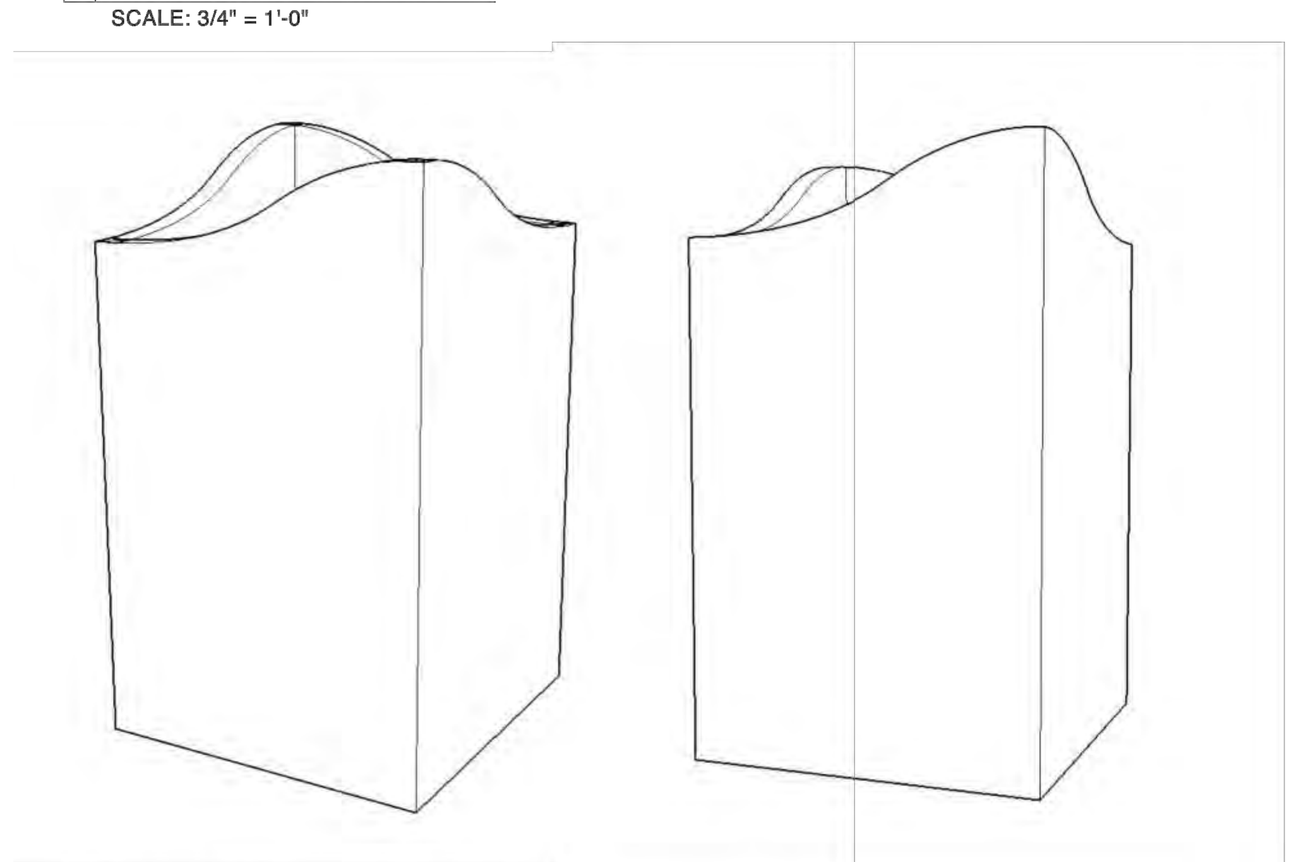
L-1.DWG



1 PARK KIOSK - SIDE ELEVATION
SCALE: 3/4" = 1'-0"



2 PARK KIOSK - SECTION VIEW
SCALE: 3/4" = 1'-0"



3 PARK KIOSK - REFERENCE IMAGES
SCALE: NTS

MATERIALS & SPECIFICATIONS

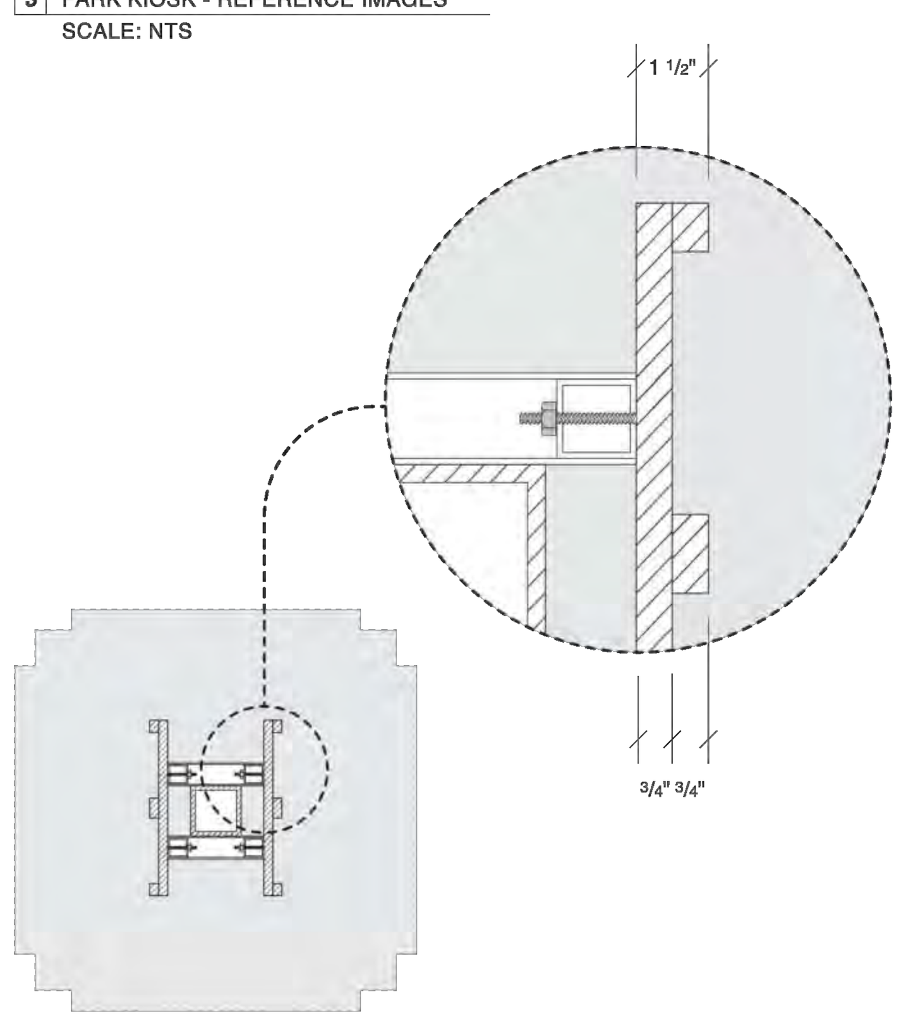
A - H1

INSTALL:
- SIGN LOCATION TO BE SET BACK FROM RIGHT OF WAY IN ACCORDANCE WITH GEORGIA DOT REQUIREMENTS
- BACKFILL AS REQUIRED
- ALL STRUCTURAL COMPONENTS TO BE VERIFIED BY ENGINEER
- CONCRETE BURIAL DEPTH TO BE VERIFIED BY STRUCTURAL ENGINEER

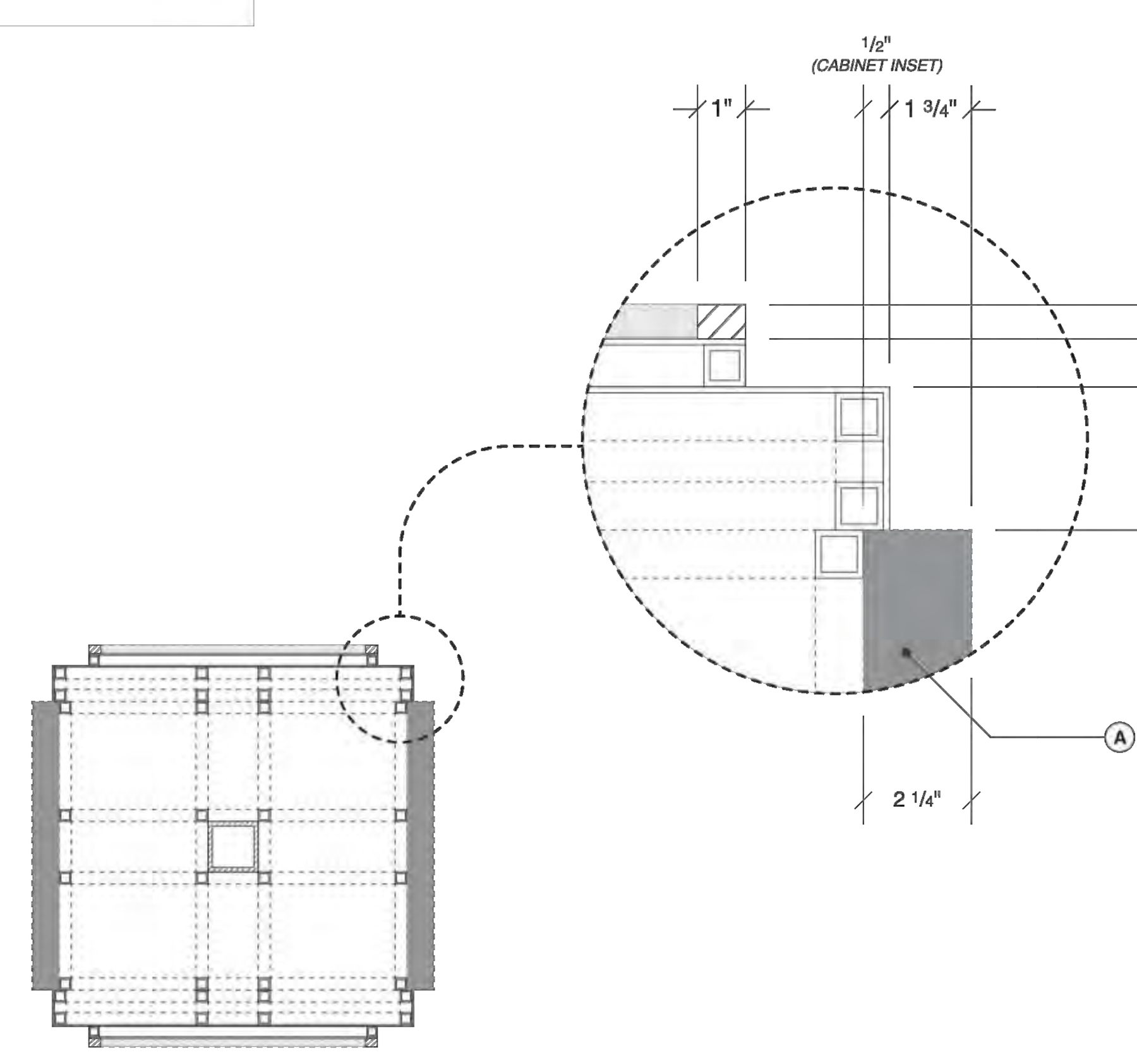
NOTES:
1. ALL LOCATIONS WILL REQUIRE ADDITIONAL REVIEW TO DETERMINE EXACT ORIENTATION AND PLACEMENT.
2. FABRICATOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO FINAL PRODUCTION AND ENGINEERING.
3. SIGN(S) ARE (4) SIDED

skydesign
SKYDESIGNGRAPHICS.COM

7.1



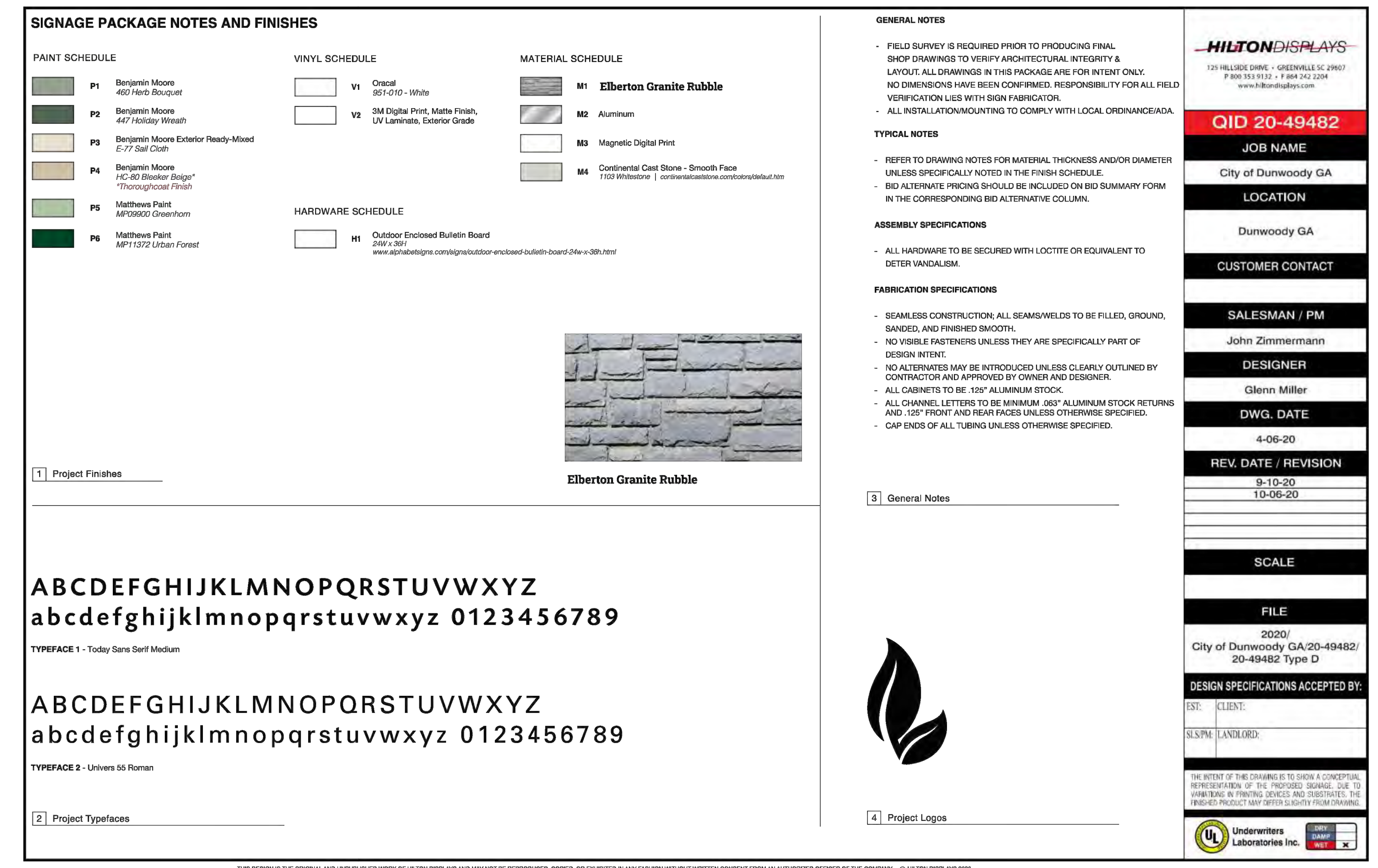
1 PARK KIOSK - SECTION VIEW
SCALE: 3/4" = 1'-0"

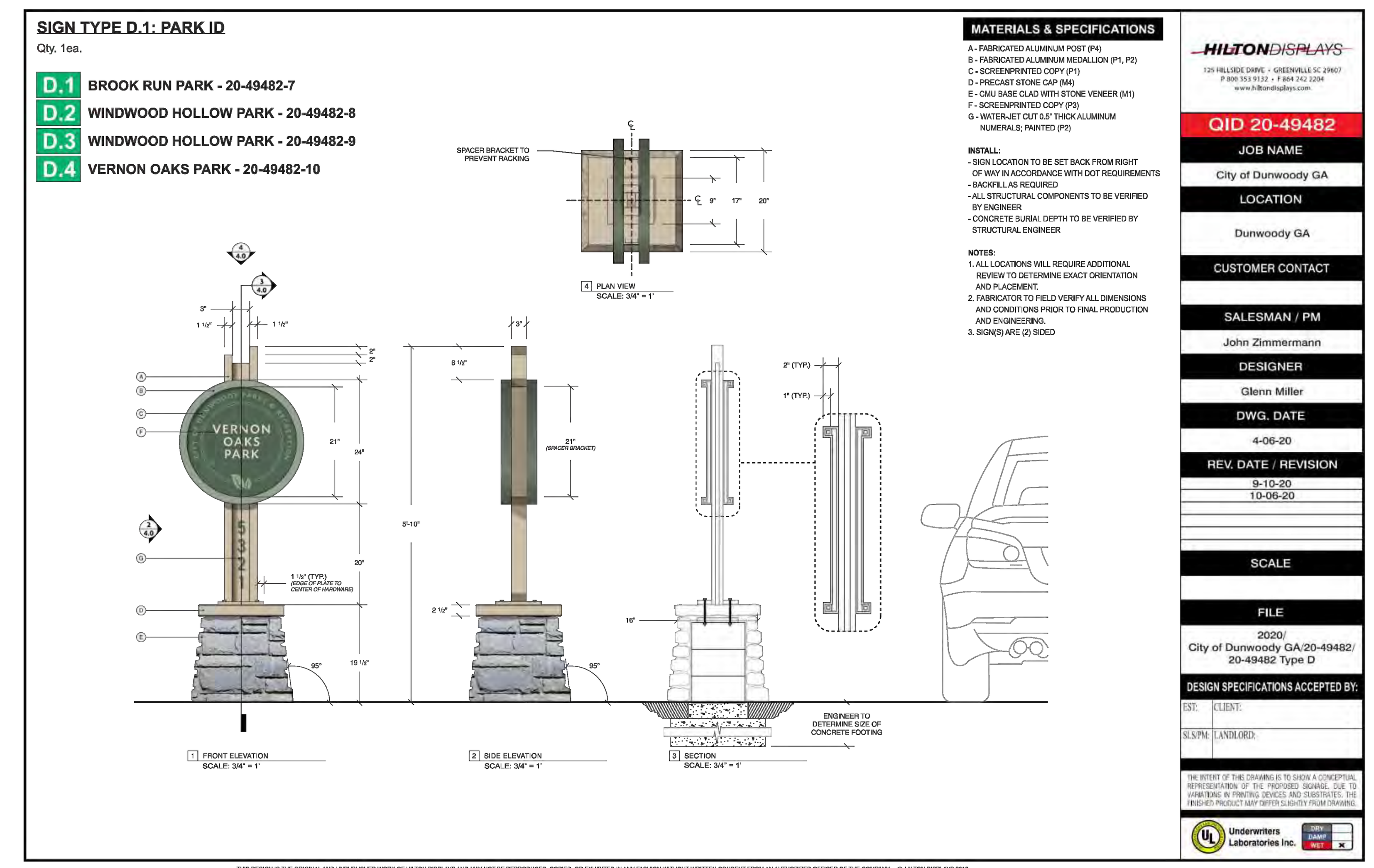


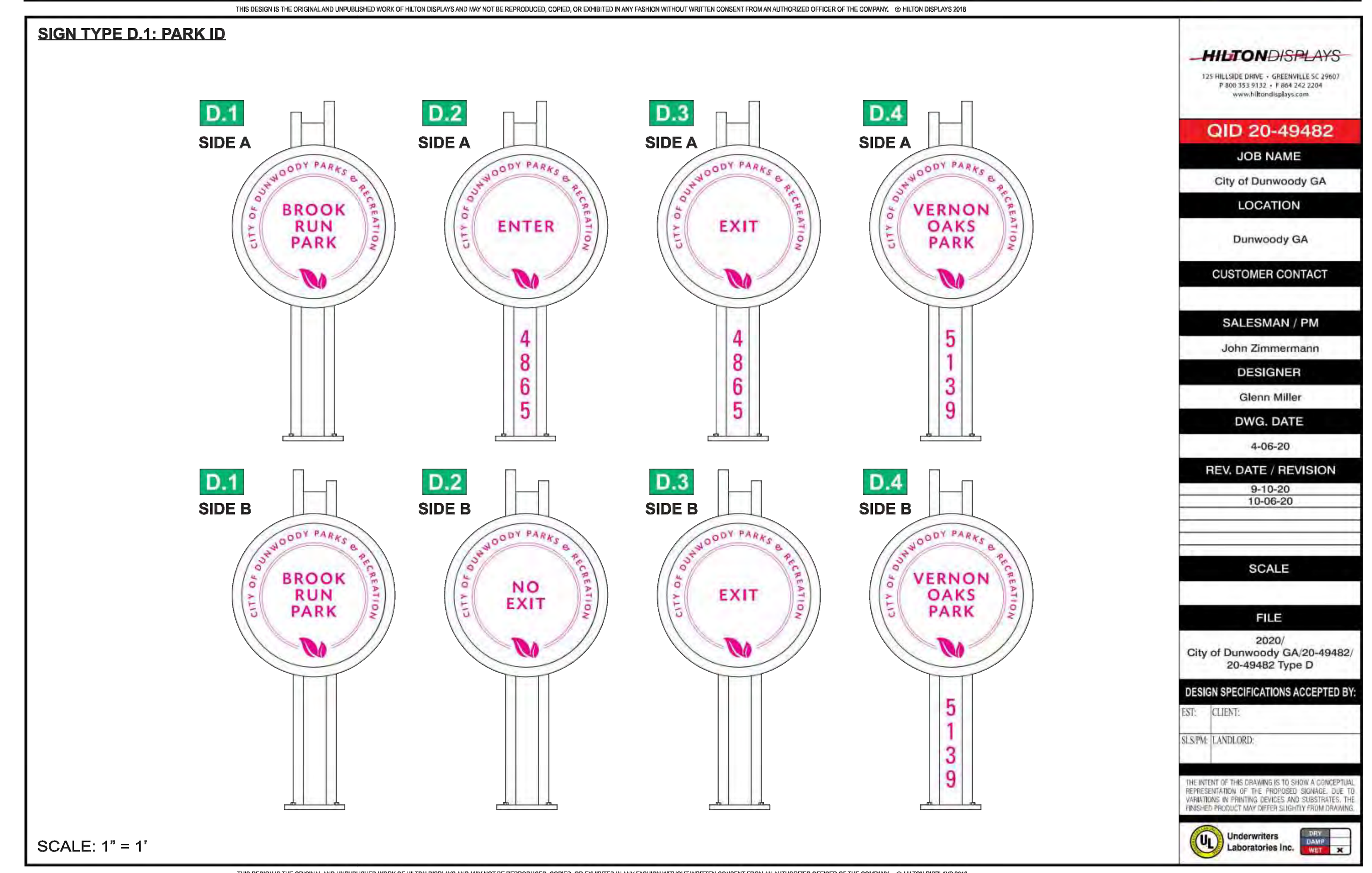
2 PARK KIOSK - SECTION VIEW
SCALE: 3/4" = 1'-0"

7.2

1 CITY STANDARD TRAIL KIOSK
ELEVATION/SECTION
SCALE: N.T.S.







SECTION A-A

2 CITY STANDARD SIGN – TYPE "D"
ELEVATION/SECTION
SCALE: N.T.S.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 . www.chacompanies.com

GEORGIA REGISTERED No. 26690 PROFESSIONAL ENGINEER PATRICK N. GRAHAM 11-1-2021

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY	TM
CHECKED BY	PG
DATE:	11/01/2021
SCALE:	1" = ##'
JOB No.	20-LD-025 / 061694.00
SHEET NUMBER	L-11

100% CONSTRUCTION DOCUMENTS

L-1.DWG

SEE SP-5 FOR ENLARGED PLAN

SEE SP-2 FOR ENLARGED PLAN

20' SEWER EASEMENT

SPLASHPAD PLAN NOTES

1. SPLASH PAD SHALL BE A RECIRCULATING SYSTEM. PUMPS, FILTERS, ETC. SHALL BE LOCATED WITHIN PUMP HOUSE/EQUIPMENT BUILDING.
2. A TOTAL OF SIX (6) MAIN DRAINS SHALL BE INSTALLED AS SHOWN IN THE SPLASH PAD.
3. FEATURES SHALL BE INSTALLED AT LOCATIONS AS SHOWN AND ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4. FEATURE COVER COLORS TO BE SELECTED BY OWNER DURING SUBMITTAL PROCESS.
5. SPLASH PAD ACTIVATION BOLLARD SHALL BE PROVIDED AND INSTALLED. BOLLARD SHALL ENGAGE/ ACTIVATE SPRAY FEATURES WHEN PUSHED.
6. A RAIN DIVERTER & STRAINER SHALL BE PROVIDED & INSTALLED BY CONTRACTOR PER PROJECT PLANS. UNIT SHALL BE SUPPLIED BY WATER FEATURE MANUFACTURER.
7. NO ABOVE GROUND FEATURES ARE SPECIFIED. GRADE LEVEL FEATURE NOZZLES SHALL BE INSTALLED LEVEL AND PLUMB IN ALL DIRECTIONS PER MANUFACTURER'S INSTRUCTIONS.
8. FEATURE MANIFOLD SHALL BE LOCATED IN POOL EQUIPMENT SHED. SEE SP & A PLANS FOR DETAILS.
9. SPLASH PAD HOLDING RESERVOIR TANK SHALL BE A PRE-CAST CONCRETE STRUCTURE. TANK SHALL BE SUPPLIED BY CONTRACTOR AND SHALL BE INSTALLED AS PER PROJECT PLANS.

OVERALL SPLASHPAD PLAN

GRAPHIC SCALE

5 0 2.5 5 10 20

(IN FEET)
1 inch = 5 ft.

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. 26690 PROFESSIONAL ENGINEER PATRICK N. GRAHAM 11-1-2021

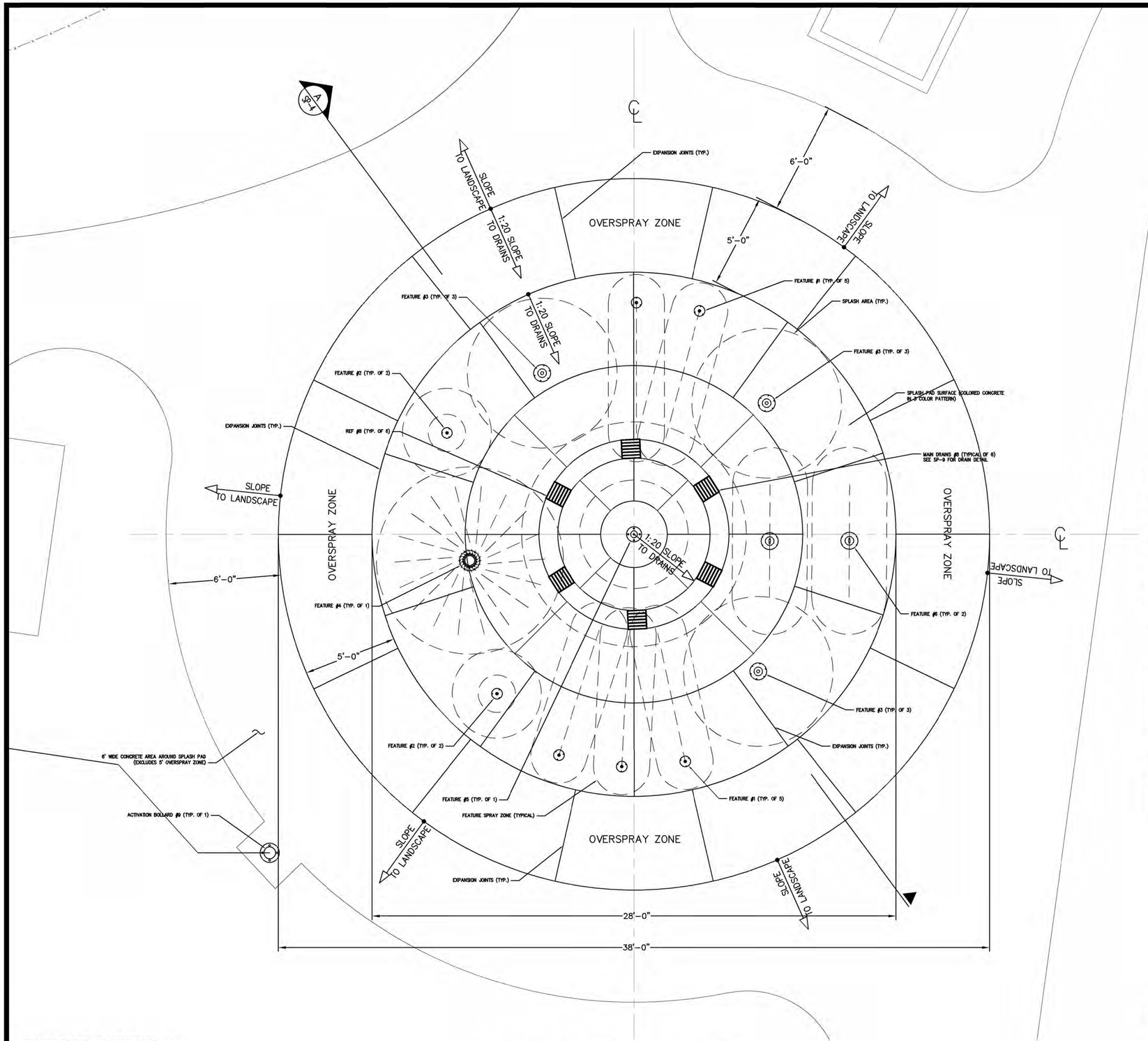
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: MDC
CHECKED BY: PNG
DATE: 11/01/2021
SCALE: 1"= 5'
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
SP-1

100% CONSTRUCTION DOCUMENTS

SP-1_061694.DWG



1 SPLASH PAD LAYOUT PLAN
SCALE: 3/8" = 1'-0"

SPLASH PAD DESIGN: FEATURE SUPPLY INFORMATION

REF NO.	FEATURE NAME	MANF. ID#	QTY	FLOW RATE (EACH)	EXTENDED FLOW RATE	PRESSURE	HEIGHT (SPRAY)	THROW
1	ANYWAYSPRAY	W100	5	4 GPM	20 GPM	3 PSI	4 FT	4 FT
2	WATER FLOWER	W071	2	10 GPM	20 GPM	1 PSI	1 FT	2 FT
3	WATER CROWN	W070	3	29 GPM	87 GPM	3 PSI	2 FT	6 FT
4	WATER WEAVE	W093	1	14 GPM	14 GPM	2 PSI	4 FT	8 FT
5	DADDY LONG LEGS	W004	1	31 GPM	31 GPM	5 PSI	7 FT	5 FT
6	WATER FAN	W083	2	42 GPM	84 GPM	6 PSI	6 FT	12 FT
7*	SPRAY FEATURE MANIFOLD (4")	N/A	1	FULL FEATURE FLOW RATE = 256 GPM		6 PSI	N/A	N/A

*7 NOT SHOWN ON THIS PLAN – SEE SP-5 FOR FEATURE MANIFOLD INFORMATION / LOCATION

SPLASH PAD DESIGN: MAIN DRAIN INFORMATION

REF #	DESCRIPTION	QTY	MAX RATED FLOW RATE	MAX TOTAL FLOW RATE
8	MAIN DRAIN (W200)	6	50 GPM EACH DRAIN	300 GPM

SPLASH PAD DESIGN: ACTIVATION BOLLARD INFORMATION

REF #	DESCRIPTION	QTY	POWER	TIME DURATION
9	ACTIVATION BOLLARD	1	HARD WIRED	15 MINUTES

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. 26090 PROFESSIONAL ENGINEER PATRICK N. GRAHAM 11-1-2021

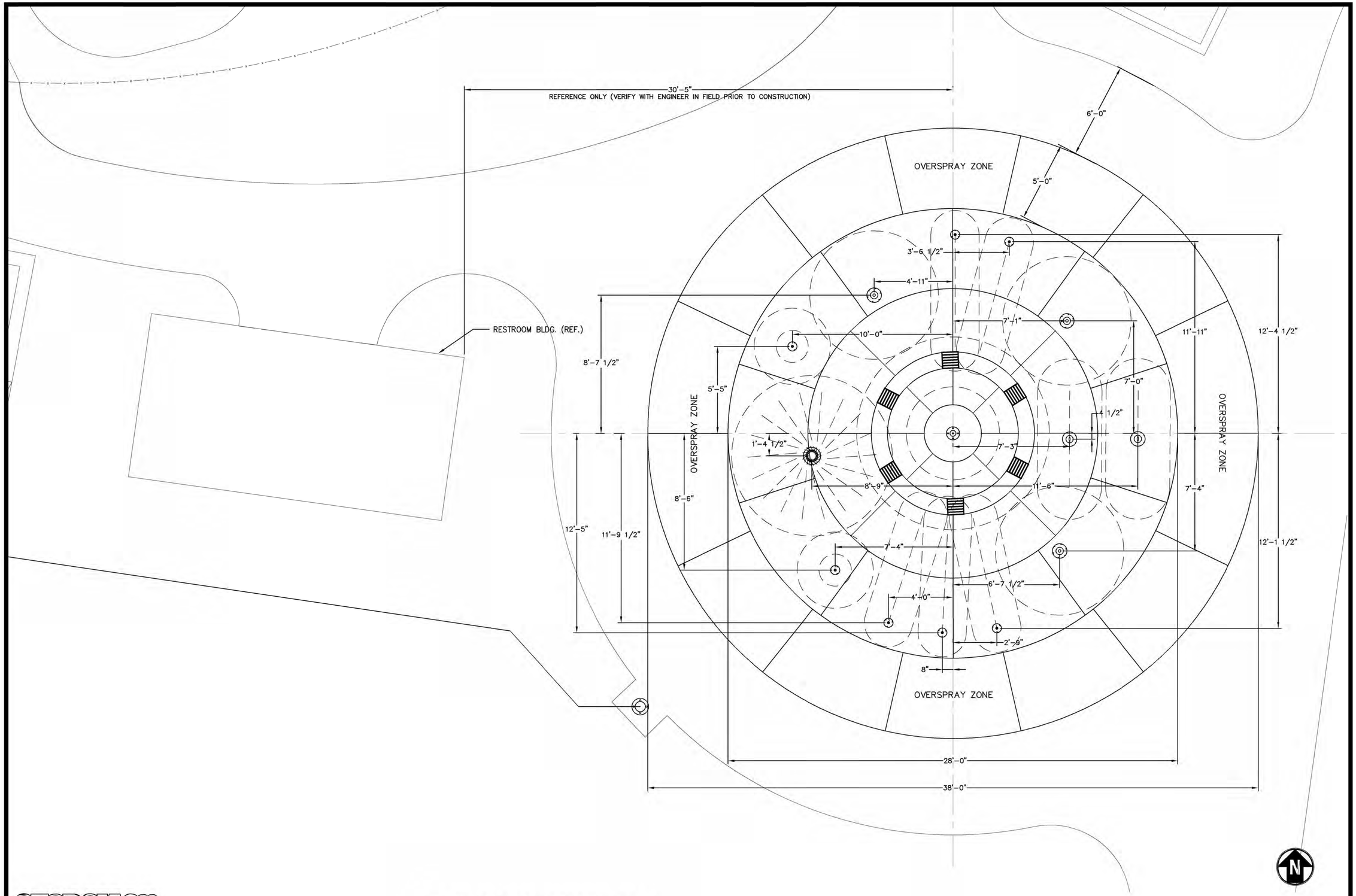
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: MDC
CHECKED BY: PNG
DATE: 11/01/2021
SCALE: 3/8"= 1'-0"
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
SP-2

100% CONSTRUCTION DOCUMENTS

SP-2_061694.DWG



1 SPLASH PAD DIMENSION PLAN
SCALE: 3/8" = 1'-0"

GEORGIA811
Utilities Protection Center, Inc
Know what's below.
Call before you dig.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA
REGISTERED
No. 26890
PROFESSIONAL
11-1-2021
ENGINEER
PATRICK N. GRAHAM

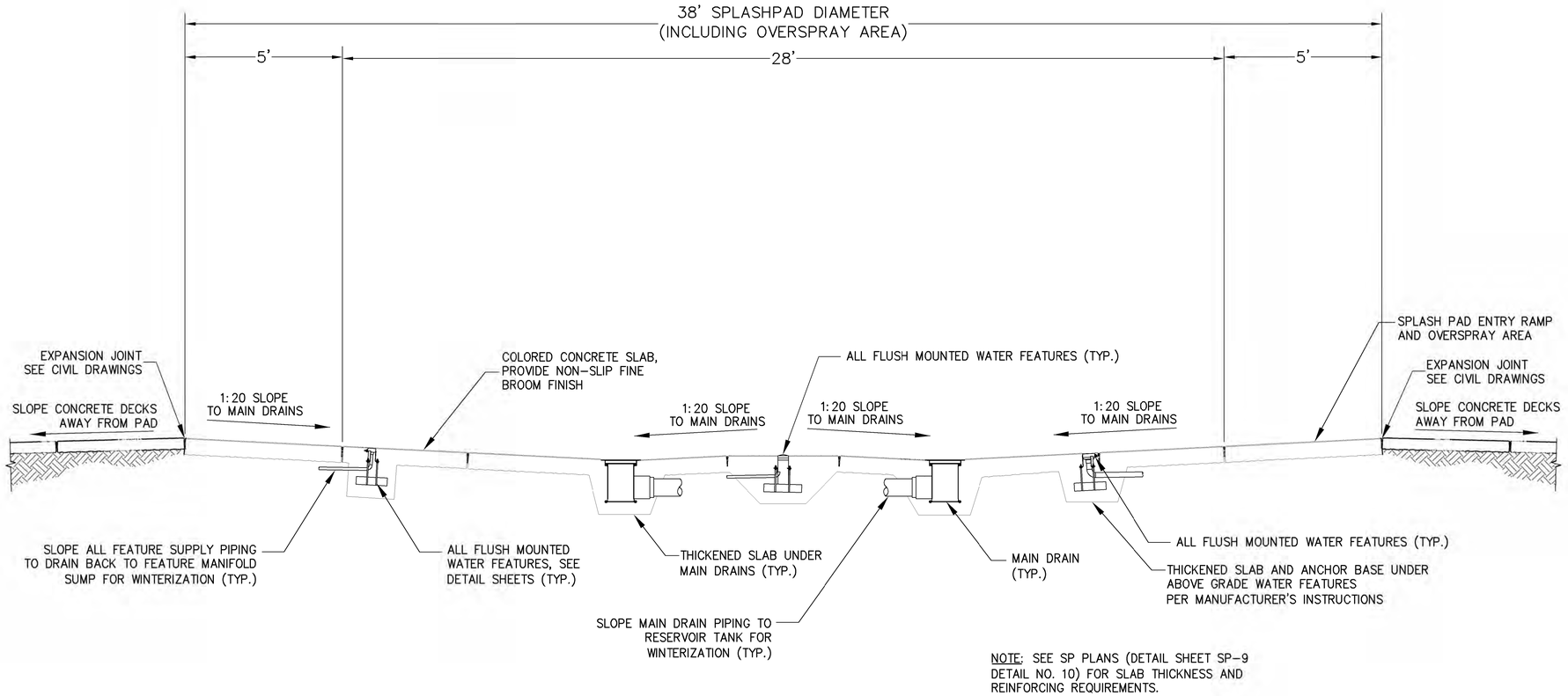
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: MDC
CHECKED BY: PNG
DATE: 11/01/2021
SCALE: 3/8"= 1'-0"
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
SP-3

100% CONSTRUCTION DOCUMENTS

SP-3_061694.DWG



NOTE: SEE SP PLANS (DETAIL SHEET SP-9 DETAIL NO. 10) FOR SLAB THICKNESS AND REINFORCING REQUIREMENTS.

1 SPLASH PAD CROSS SECTION A-A

SCALE: 1/2" = 1'-0"

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. 28890 PROFESSIONAL ENGINEER PATRICK N. GRAHAM 11-1-2021

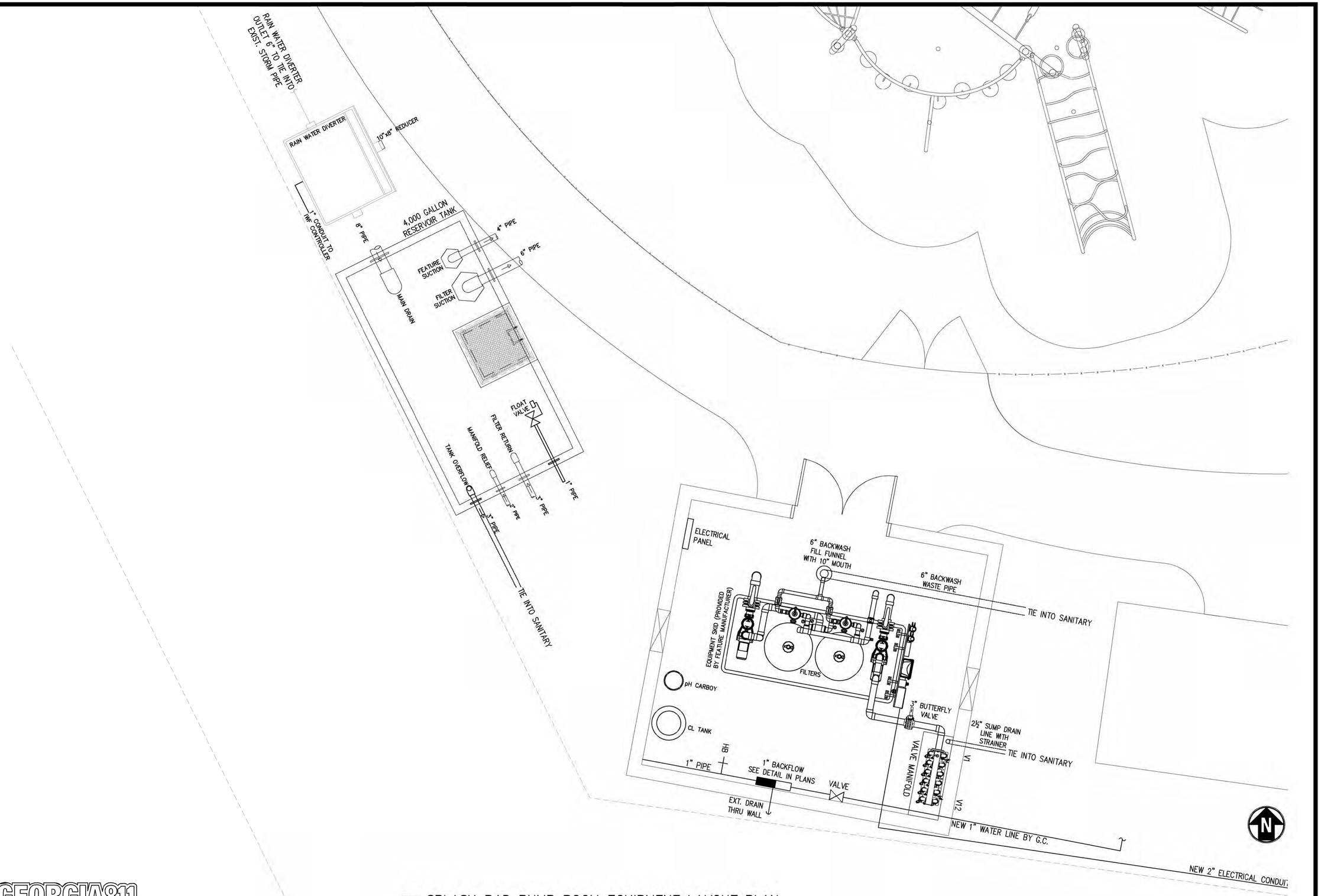
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: MDC
CHECKED BY: PNG
DATE: 11/01/2021
SCALE: 1/2"= 1'-0"
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
SP-4

100% CONSTRUCTION DOCUMENTS

SP-4_061694.DWG



1 SPLASH PAD PUMP ROOM EQUIPMENT LAYOUT PLAN
SCALE: 3/8" = 1'-0"

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. 28690 PROFESSIONAL ENGINEER 11-1-2021 PATRICK N. GRAHAM

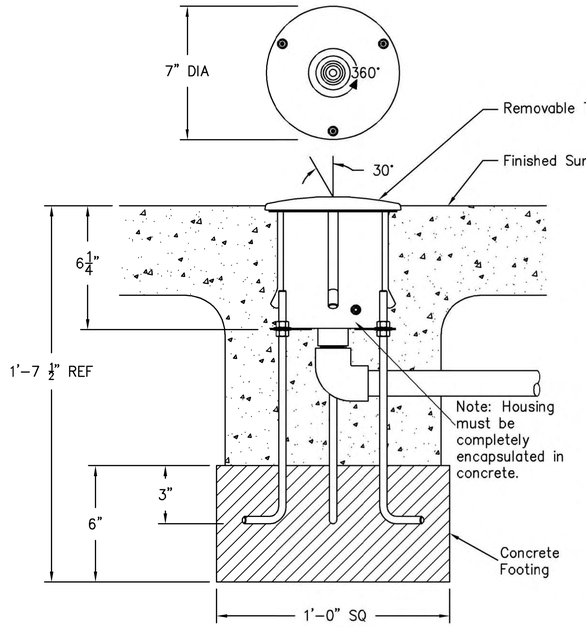
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: MDC
CHECKED BY: PNG
DATE: 11/01/2021
SCALE: 3/8"= 1'-0"
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
SP-5

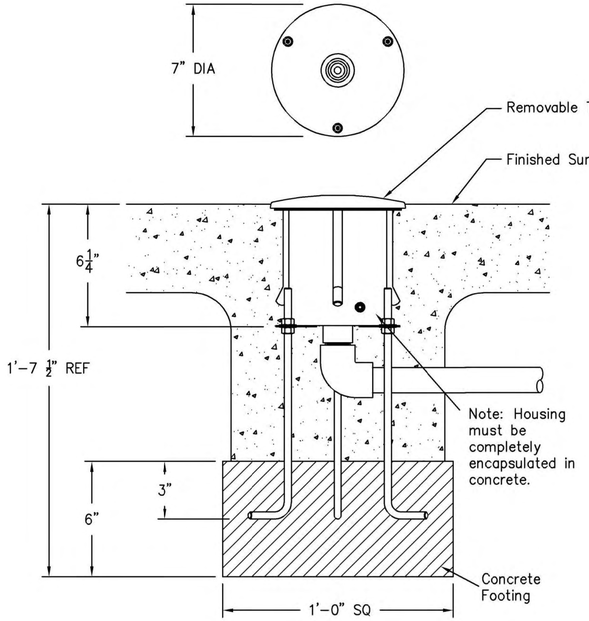
100% CONSTRUCTION DOCUMENTS

SP-5_061694.DWG



Water Odyssey Model Number: W100
Interactive Water Effect: Shall be a solid stream of water with 30° adjustability on a 360° axis.
Housing: 20 gauge deep-drawn type 304 stainless steel with grounding connection and 1" FPT inlet. Supplied with 4, 3/8" x 12" x 2" 18/8 stainless steel anchor bolts with two leveling nuts and washers per bolt and wood pour template.
Gaskets: 70 durometer EPDM o-ring.
Construction Cover: Reusable 7" diameter HDPE (high density polyethylene).
Top Plate: 7" diameter slightly domed cast bronze with interchangeable nozzle assembly and UV stabilized, textured elastomeric urethane coating with a UV and chlorine resistant sealer coat.
Top Plate Anchors: Three ½" x 5" machined brass with 30° hook bend.
Color: (Specify red, dark blue, light blue, yellow, green, orange, or purple.)
Fasteners: Tamper-resistant 18/8 stainless steel.
Nozzle: Precision machined brass.
Quantity: (5)
Foundation: Foundation required for feature shall be coordinated with manufacturer and included in bid price.

1 ANYWAYSPRAY WATER FEATURE DETAIL
SCALE: NOT TO SCALE



Water Odyssey Model Number: W071
Interactive Water Effect: Shall be a sheet effect in the shape of a morning glory.
Housing: 20 gauge deep-drawn type 304 stainless steel with grounding connection and 1" FPT inlet. Supplied with 4, 3/8" x 12" x 2" 18/8 stainless steel anchor bolts with two leveling nuts and washers per bolt and wood pour template.
Gaskets: 70 durometer EPDM o-ring.
Construction Cover: Reusable 7" diameter HDPE (high density polyethylene).
Top Plate: 7" diameter slightly domed cast bronze with interchangeable nozzle assembly and UV stabilized, textured elastomeric urethane coating with a UV and chlorine resistant sealer coat.
Top Plate Anchors: Three ½" x 5" machined brass with 30° hook bend.
Color: (Specify red, dark blue, light blue, yellow, green, orange, or purple.)
Fasteners: Tamper-resistant 18/8 stainless steel.
Nozzle: Precision machined brass.
Quantity: (2)
Foundation: Foundation required for feature shall be coordinated with manufacturer and included in bid price.

2 WATER FLOWER WATER FEATURE DETAIL
SCALE: NOT TO SCALE

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. 26890 PROFESSIONAL ENGINEER PATRICK N. GRAHAM 11-1-2021

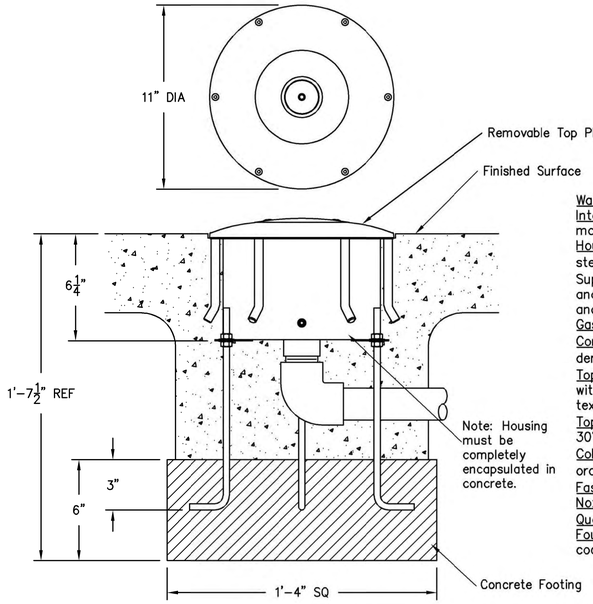
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: MDC
CHECKED BY: PNG
DATE: 11/01/2021
SCALE: NTS
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
SP-6

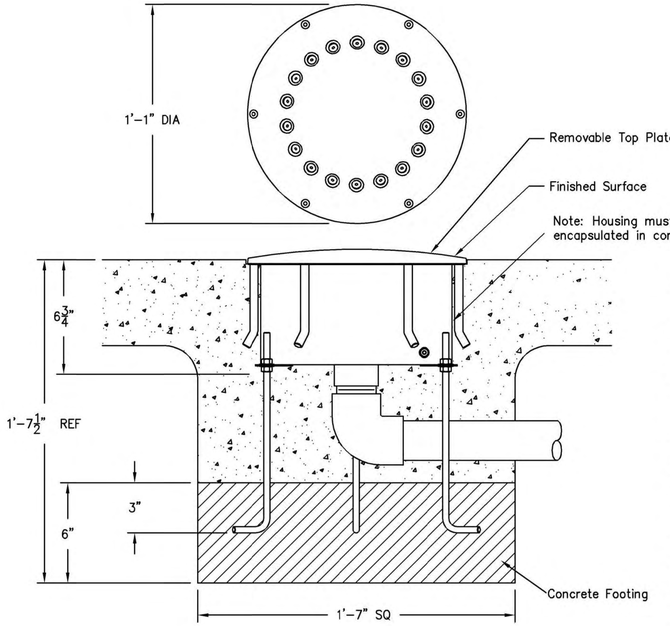
100% CONSTRUCTION DOCUMENTS

SP-6_061694.DWG



Water Odyssey Model Number: W070
Interactive Water Effect: Shall be a full crystalline morning glory sheet effect.
Housing: 20 gauge deep-drawn type 304 stainless steel with grounding connection and 1½" FPT inlet. Supplied with 4, 3/8" x 12" x 2" 18/8 stainless steel anchor bolts with two leveling nuts and washers per bolt and wood pour template.
Gaskets: 70 durometer EPDM o-ring.
Construction Cover: Reusable 11" diameter HDPE (high density polyethylene).
Top Plate: 11" diameter slightly domed cast bronze with interchangeable nozzle assembly and UV stabilized, textured elastomeric urethane coating.
Top Plate Anchors: Six ½" x 5" machined brass with 30° hook bend.
Color: (Specify red, dark blue, light blue, yellow, green, orange, or purple.)
Fasteners: Tamper-resistant 18/8 stainless steel.
Nozzle: Precision machined brass.
Quantity: (3)
Foundation: Foundation required for feature shall be coordinated with manufacturer and included in bid price.

3 WATER CROWN WATER FEATURE DETAIL
SCALE: NOT TO SCALE



Water Odyssey Model Number: W093
Interactive Water Effect: Shall be a "basket weave" pattern of streams of water.
Housing: 20 gauge deep-drawn type 304 stainless steel with grounding connection and 2" FPT inlet. Supplied with 4, 3/8" x 12" x 2" 18/8 stainless steel anchor bolts with two leveling nuts and washers per bolt and wood pour template.
Gasket: 70 durometer EPDM o-ring.
Construction Cover: Reusable 13" diameter HDPE (high density polyethylene).
Top Plate: 13" diameter slightly domed cast bronze with UV stabilized, textured elastomeric urethane coating.
Top Plate Anchors: Six ½" x 5" machined brass with 30° hook bend.
Color: (Specify red, dark blue, light blue, yellow, green, orange, or purple.)
Fasteners: Tamper-resistant 18/8 stainless steel.
Nozzles: Eighteen precision machined brass.
Quantity: (1)
Foundation: Foundation required for feature shall be coordinated with manufacturer and included in bid price.

4 WATER WEAVE WATER FEATURE DETAIL
SCALE: NOT TO SCALE

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA
No. 28690
PROFESSIONAL ENGINEER
11-1-2021
PATRICK N. GRAHAM

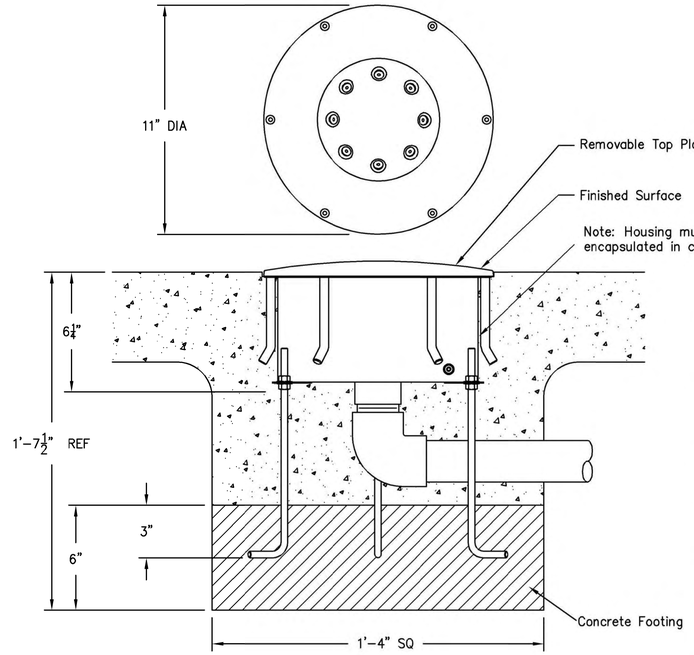
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

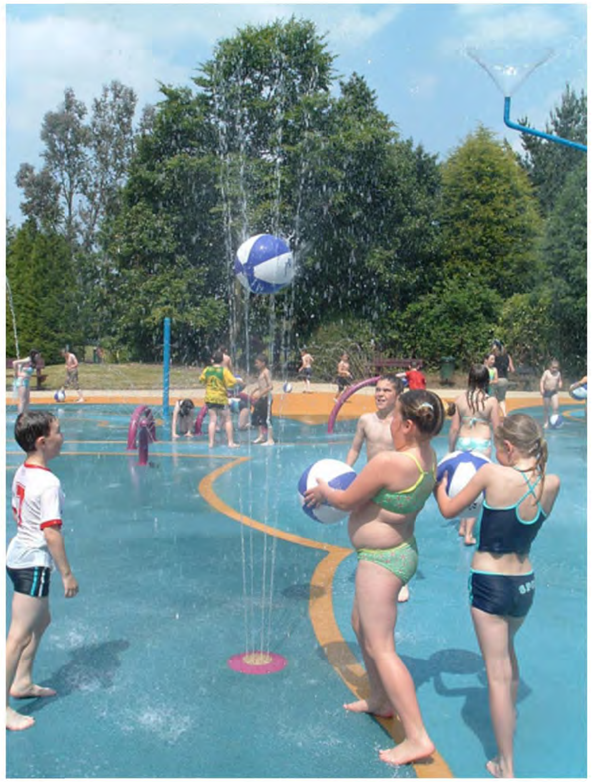
DRAWN BY: MDC
CHECKED BY: PNG
DATE: 11/01/2021
SCALE: NTS
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
SP-7

100% CONSTRUCTION DOCUMENTS

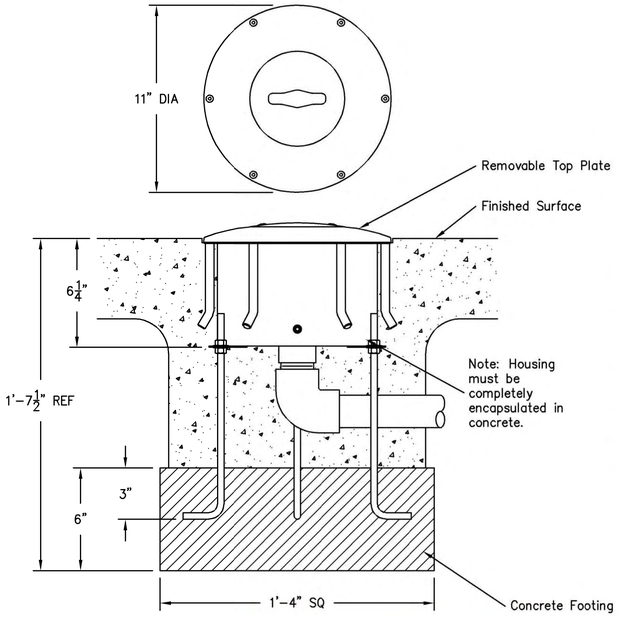
SP-7_061694.DWG



Water Odyssey Model Number: W004
Interactive Water Effect: Shall be an array of outward arching streams of water.
Housing: 20 gauge deep–drawn type 304 stainless steel with grounding connection and 1½" FPT inlet. Supplied with 4, 3/8" x 12" x 2" 18/8 stainless steel anchor bolts with two leveling nuts and washers per bolt and wood pour template.
Gasket: 70 durometer EPDM o–ring.
Construction Cover: Reusable 11" diameter HDPE (high density polyethylene).
Top Plate: 11" diameter slightly domed cast bronze with UV stabilized, textured elastomeric urethane coating.
Top Plate Anchors: Six ½" x 5" machined brass with 30° hook bend.
Color: (Specify red, dark blue, light blue, yellow, green, orange, or purple.)
Fasteners: Tamper–resistant 18/8 stainless steel.
Nozzles: Eight precision machined brass.
Quantity: (1)
Foundation: Foundation required for feature shall be coordinated with manufacturer and included in bid price.



5 DADDY LONG LEGS WATER FEATURE DETAIL
SCALE: NOT TO SCALE



Water Odyssey Model Number: W083
Interactive Water Effect: Shall be "basket weave" pattern of streams of water.
Housing: 20 gauge deep–drawn type 304 stainless steel with grounding connection and 1½" FPT inlet. Supplied with 4, 3/8" x 12" x 2" 18/8 stainless steel anchor bolts with two leveling nuts and washers per bolt and wood pour template.
Gaskets: 70 durometer EPDM o–ring.
Construction Cover: Resuable 11" diameter HDPE (high density polyethylene).
Top Plate: 11" diameter cast bronze with interchangeable nozzle assembly and UV stabilized, textured elastomeric urethane coating.
Top Plate Anchors: Six ½" x 5" machined brass with 30° hook bend.
Color: (Specify red, dark blue, light blue, yellow, green, orange, or purple.)
Fasteners: Tamper–resistant 18/8 stainless steel.
Nozzle: Precision machined cast bronze.
Quantity: (2)
Foundation: Foundation required for feature shall be coordinated with manufacturer and included in bid price.

6 WATER FAN WATER FEATURE DETAIL
SCALE: NOT TO SCALE

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. 26690 PROFESSIONAL ENGINEER PATRICK N. GRAHAM 11-1-2021

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: MDC
CHECKED BY: PNG
DATE: 11/01/2021
SCALE: NTS
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
SP-8

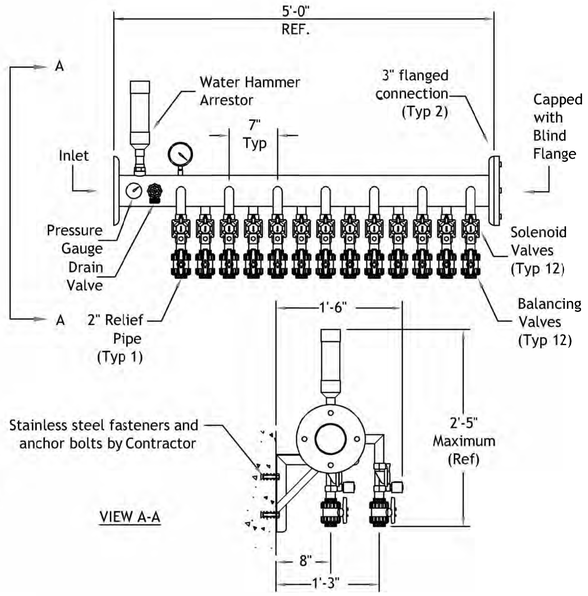
100% CONSTRUCTION DOCUMENTS

SP-8_061694.DWG

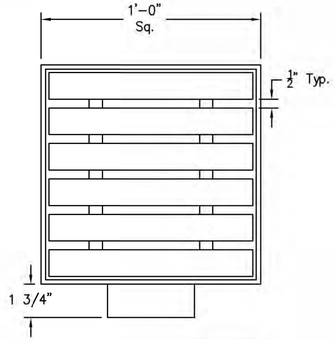
Specifications:

Model Number: WMF-13
Distribution Header: 3" type 304L stainless steel pipe with flanged ends.
Solenoid Valves: Die cast bronze with stainless steel hardware , DIN connector w th 15' cord, and 24VAC UL Recognized solenoid.
Balancing Valves: True union ball valve, Schedule 80 PVC.
Water Hammer Arrestor: 2" Copper and brass construction with pre-set operating pressure of 10-35 psi.
Drain Valve: $\frac{3}{4}$" Cast bronze hose bib.
Pressure Gauge: Discharge Pressure Gauge: Tru-Tel #3550BC4L1D6F. 0-60 psi.
Mounting Brackets: Type 304 stainless steel with $\frac{1}{2}$" stainless steel u-bolt.
Catalog Numbering: Numeric suffix following WMF (13) indicates number of discharge assemblies
Quantity: (1)

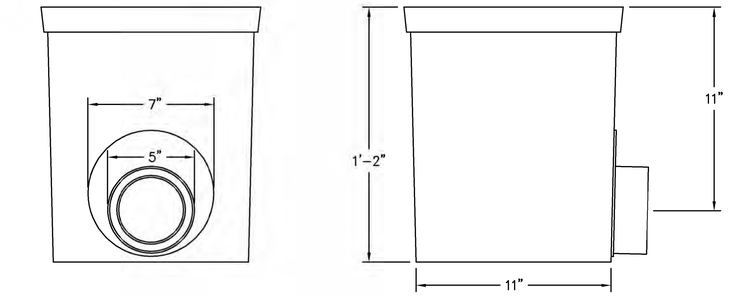
NOTE: See sheet SP-10 Detail #11 for manifold installation.



7 SPRAY FEATURE MANIFOLD DETAIL
SCALE: NOT TO SCALE



Water Odyssey Model No: W200
Sump: Formed polyethylene.
Grate: Heavy-duty FRP grate with skid resistant surface urethane coating. Meets ADA guidelines.
Strainer Basket: Molded Polyurethane
Grate Color: Available colors: red, light blue, yellow, green, dark blue, orange, or purple.
Outlet: 4" slip connection.
Fasteners: Tamper-resistant 18/8 stainless steel.
Quantity: (6) Required

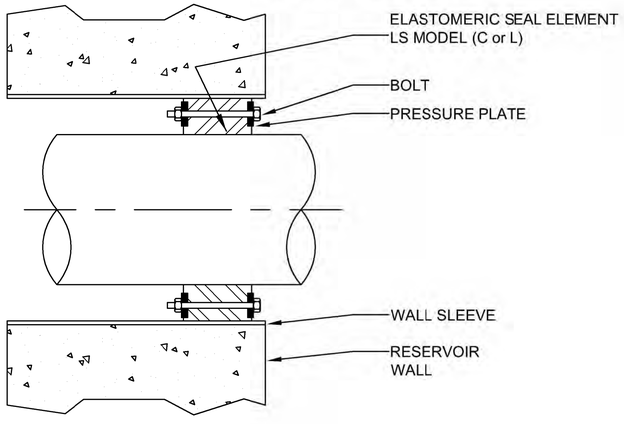


8 MAIN DRAIN DETAIL
SCALE: NOT TO SCALE

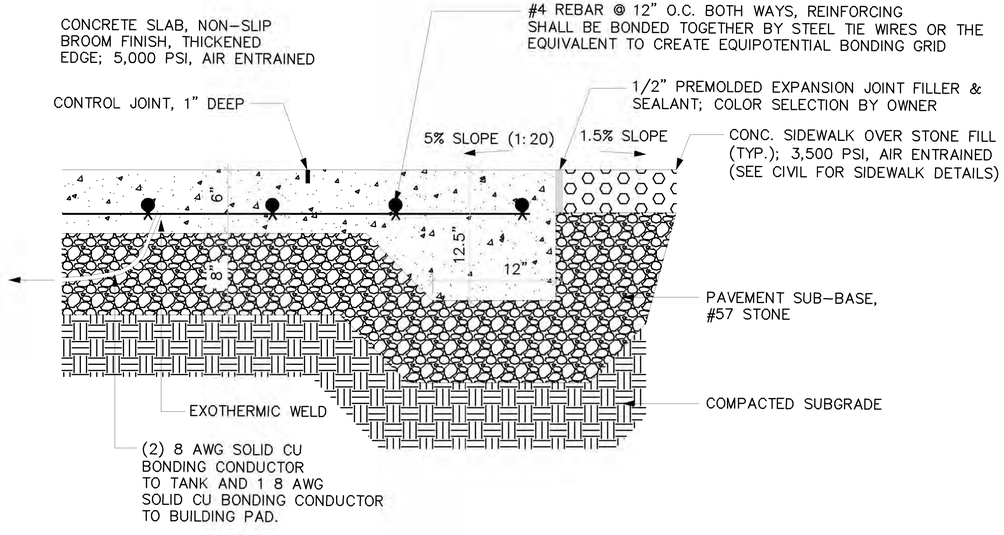
NOTE: CONTRACTOR SHALL PROVIDE AND INSTALL LINK SEALS FOR ALL PIPE PENETRATIONS THROUGH RESERVOIR TANK.

QUANTITY = (7)

LINK-SEAL® MODULAR SEALS WITH MCDEL WS STEEL WALL SLEEVES



9 CONCRETE WALL SLEEVE DETAIL
SCALE: NOT TO SCALE



10 SPLASHPAD CONCRETE SLAB DETAIL
SCALE: NOT TO SCALE

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. 26890 PROFESSIONAL 11-1-2021 ENGINEER PATRICK N. GRAHAM

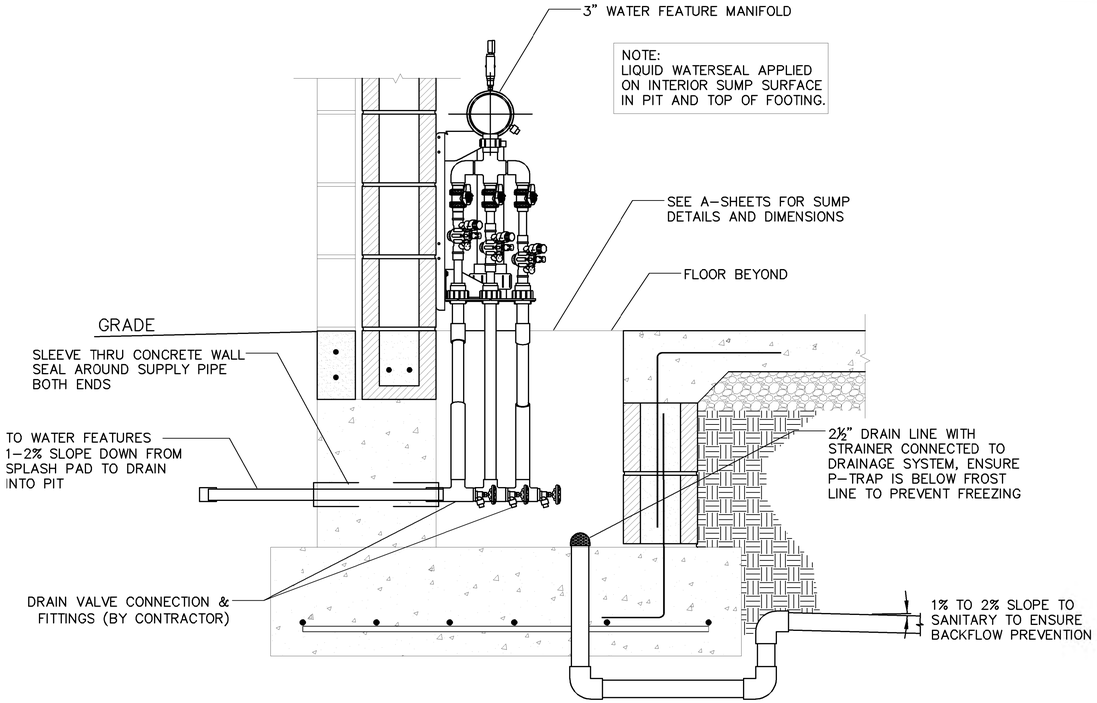
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

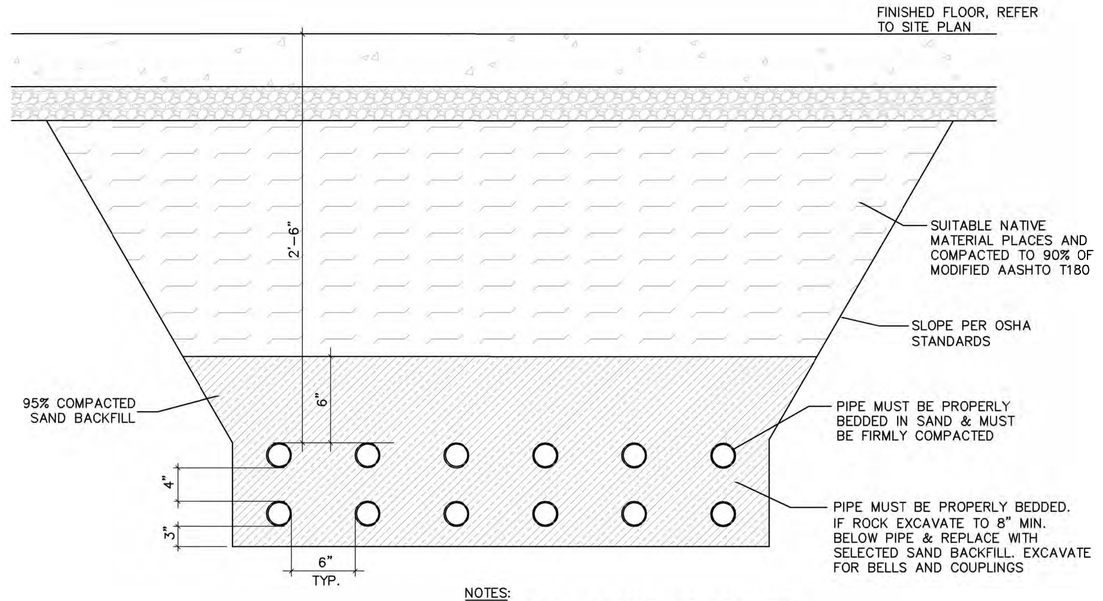
DRAWN BY: MDC
CHECKED BY: PNG
DATE: 11/01/2021
SCALE: NTS
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
SP-9

100% CONSTRUCTION DOCUMENTS

SP-9_061694.DWG

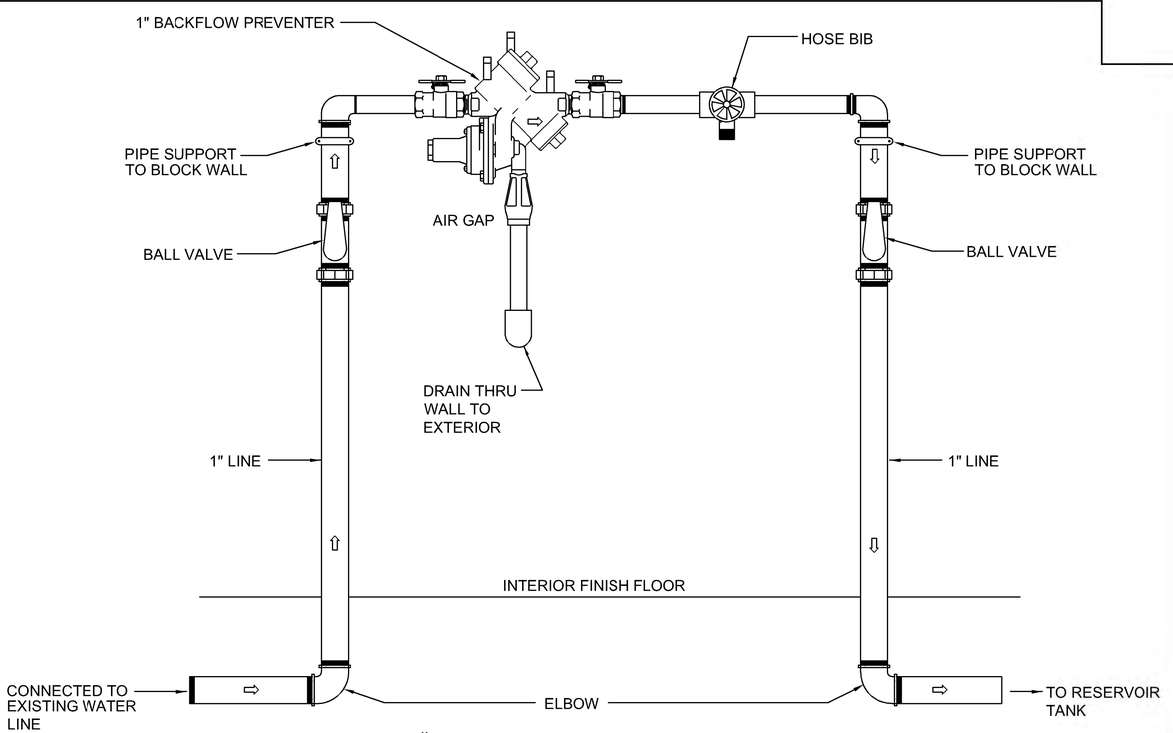


11 SPRAY FEATURE MANIFOLD INSTALLATION DETAIL
SCALE: NOT TO SCALE

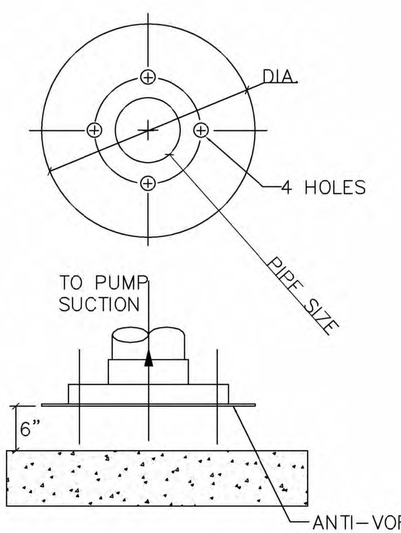


NOTES:
1) PIPES RUNNING PARALLEL AND ABOVE OTHER PIPES ALLOWED ONLY UPON SPECIAL APPROVAL OF THE ENGINEER.
2) PIPES SHALL BE SLOPED PER LOCAL CODES.

12 PIPE TRENCHING DETAIL
SCALE: NOT TO SCALE



13 1" BACKFLOW PREVENTER DETAIL
SCALE: NOT TO SCALE



DIMESIONS			PART #
PIPE SIZE	PLATE DIA.	BOLT SIZE	PVC PLATE
4"	12"	5/8"	AVPLATE4PVCKIT
6"	16"	5/8"	AVPLATE6PVCKIT

NOTES:
1. PLATE DIA./HEIGHT MAY VARY DEPENDING ON REQUIRED SUCTION FLOW.
2. A.V. PLATES SHALL BE SUPPLIED BY: NEPTUNE BENSON INC. OR APPROVED EQUAL.
3. QUANTITY = (2) REQUIRED (1 @ 4" AND 1 @ 6")
4. CONTRACTOR SHALL INSTALL PLATES WITH STAINLESS STEEL ALL THREAD AND S/S FASTENERS.

14 ANTI-VORTEX COVER DETAIL
SCALE: NOT TO SCALE

100% CONSTRUCTION DOCUMENTS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. 28890 PROFESSIONAL ENGINEER 11-1-2021 PATRICK N. GRAHAM

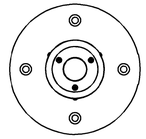
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

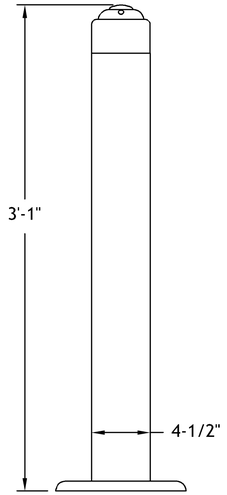
REVISIONS	BY

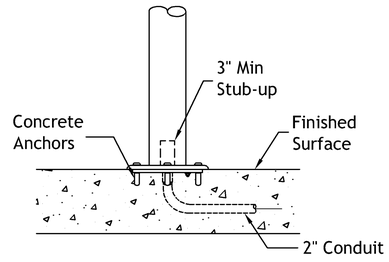
DRAWN BY: MDC
CHECKED BY: PNG
DATE: 11/01/2021
SCALE: NTS
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
SP-10

SP-10_061694.DWG

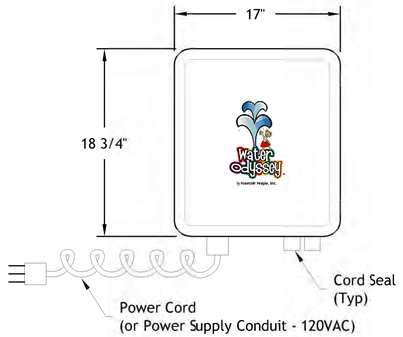
Model Number: W009
Shaft: 4" type 304 stainless steel pipe.
Base Plate: Type 304 stainless steel pipe.
Anchors: (4) stainless steel concrete anchors, supplied.
Finish: Textured elastomeric urethane with a UV and chlorine resistance sealer coat.
Color: Select from Red, Light Blue, Yellow, Green, Dark Blue, Orange, or Purple.
Fasteners: Tamper-resistant type 18/8 stainless steel.
Activator Housing: Tactile push button machine from polymer materials
Activator Housing Color: (Select from Red, Light Blue, Yellow, Green, Dark Blue, Orange, or Purple.)
Activator Cord: 150' of 18/3 type SJTOW submersible cable pre-wired to activator button, supplied.
Quantity: (1)
Foundation: Foundation required for feature shall be coordinated and designed with manufacturer and included in bid price.

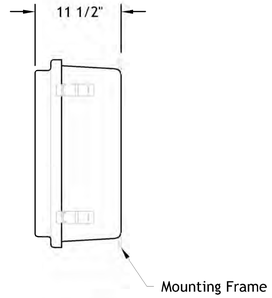






15 SPLASHPAD ACTIVATION BOLLARD DETAIL
SCALE: NOT TO SCALE





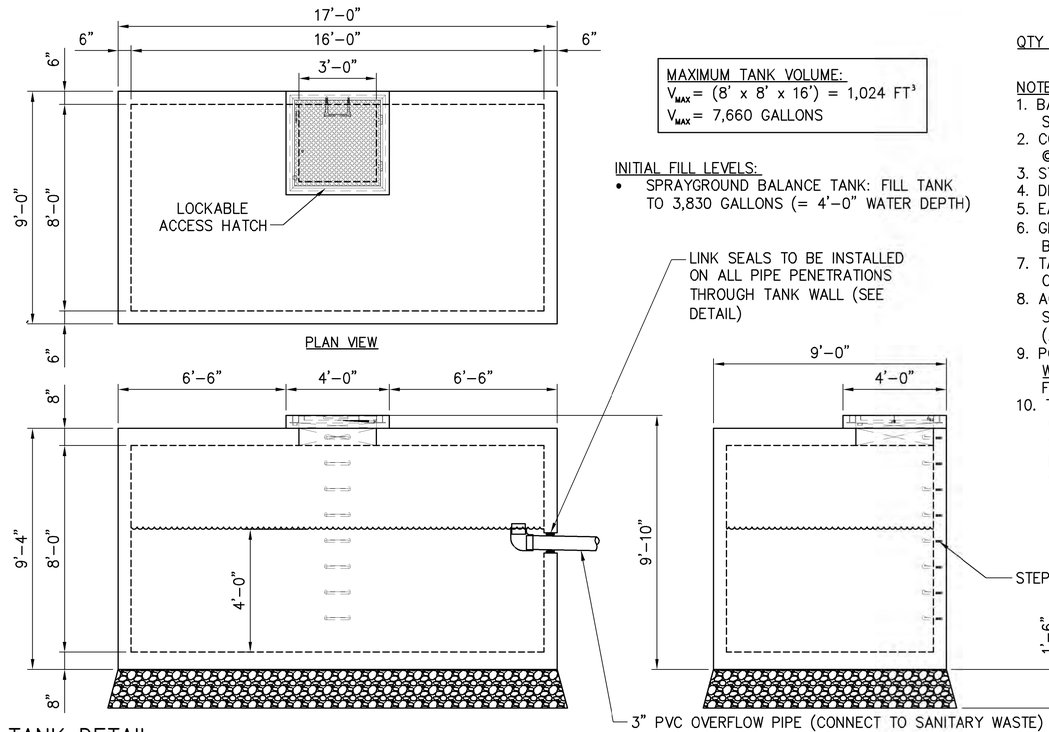
Model Number	Wired Inputs (Max)	Outputs (Max)
DSC-8-12	8	12

Model No: DSC-8-12
Housing: NEMA 4X with lockable hasp.
Input Voltage: 120VAC/60 Hertz, 20 Amps.
Wired Inputs: 8.
Output Voltage: 24VAC/60 Hertz, .75 Amps continuous per output.
Outputs: 12.
Power Cord: 6 foot, 16-3 type SJT with grounded plug.
Cord Seals: PVC compression seal fittings with neoprene gland for 16-2 solenoid valve cables.
Time Clock: Integral, electronic, 7 day, 24 hour.
Interface: Keypad with 20 keys and a 4 x 20 backlit LCD display.
Antenna/Receiver: Enclosed in weather resistant PVC housing with 150 feet of CAT 5 crossover cable supplied.
Programmable Events: Timed duration, cycled, defined, random, and cued sequencing, field adjustable.
Programming: Through keyboard; set at factory and field adjustable.
Safety: ETL and Underwriters' Laboratories Listed.
Quantity: (1)

Notes:
1. Conduit and wire by installer.
2. Adding suffix -A to any of the units above will designate it as factory mounted and pre-wired on manifold assembly.
3. All field wiring to be compliant with NEC and local codes. Field output wire to be stranded copper, minimum rated 60°C

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

16 SPLASHPAD CONTROLLER DETAIL
SCALE: NOT TO SCALE



MAXIMUM TANK VOLUME:
V_{MAX} = (8' x 8' x 16') = 1,024 FT^3
V_{MAX} = 7,660 GALLONS

INITIAL FILL LEVELS:
- SPRAYGROUND BALANCE TANK: FILL TANK TO 3,830 GALLONS (= 4'-0" WATER DEPTH)

QTY REQUIRED = (1)

NOTES:
1. BALANCE TANKS TO BE A PRECAST STRUCTURE AND SHALL BE SUPPLIED BY OLD CASTLE PRECAST, OR EQUAL.
2. CONCRETE MINIMUM COMPRESSIVE STRENGTH TO BE 5,000 PSI @ 28 DAYS.
3. STEEL REINFORCEMENT REBAR SHALL BE ASTM 615, GRADE 60.
4. DESIGN LOADING IS BASED ON AASHTO HS-20.
5. EARTH COVER = 0'-0" - 5'-0" BASED ON WORST CASE SCENARIO.
6. GROUND WATER ASSUMED WORST CASE SCENARIO @ 3'-0" BELOW GRADE.
7. TANK STRUCTURE PRODUCED IN ACCORDANCE WITH NPCA CERTIFICATION BY OLD CASTLE PRECAST.
8. ACCESS HATCH (1 PER TANK) SHALL BE INTEGRAL WITH THE TANK AND SHALL BE LOCKABLE. HATCH TO BE SYRACUSE MODEL CH-4AL (ALUMINUM) AND SHALL BE OSHA APPROVED.
9. POOL CONTRACTOR MUST PROVIDE 2 COATS OF VANDEX SUPER WHITE WATERPROOFING TO INTERIOR SURFACE OF TANK. SEE SPECIFICATIONS FOR DETAILS.
10. TANK IS TO BE SET LEVEL AND PLUMB IN ALL DIRECTIONS. CONTRACTOR SHALL PROVIDE AN 18" THICK LAYER OF CLEAN #1 & 2 STONE MIX SUB-BASE DIRECTLY UNDER TANK (SHOWN IN DETAIL). CONTRACTOR SHALL OVER-EXCAVATE TO ACCOUNT FOR SUB-BASE STONE FILL.

17 SPLASHPAD RESERVOIR TANK DETAIL
SCALE: NOT TO SCALE

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. 28690 PROFESSIONAL ENGINEER 11-1-2021 PATRICK N. GRAHAM

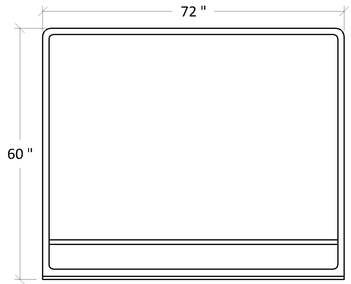
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

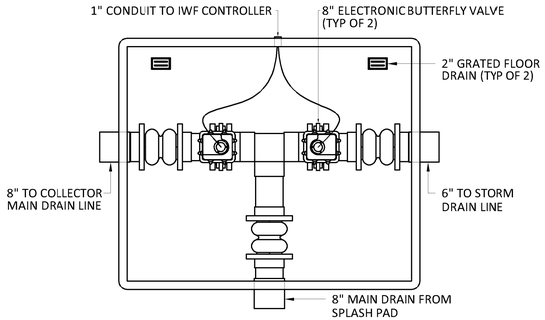
DRAWN BY: MDC
CHECKED BY: PNG
DATE: 11/01/2021
SCALE: NTS
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
SP-11

100% CONSTRUCTION DOCUMENTS

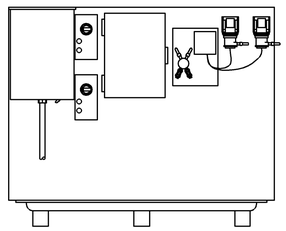
SP-11_061694.DWG



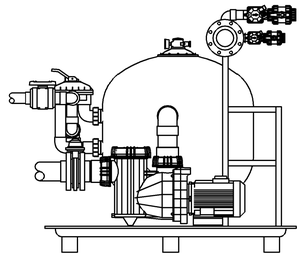
RAIN DIVERTER EQUIPMENT
PLAN VIEW



RAIN DIVERTER COMPONENT ID
PLAN VIEW

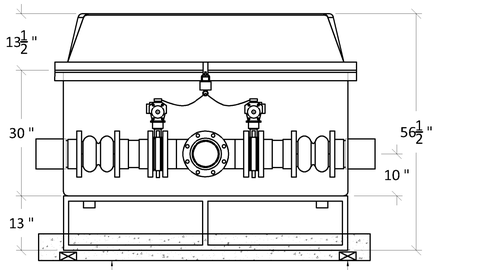


EQUIPMENT COVER
LEFT SIDE ELEVATION

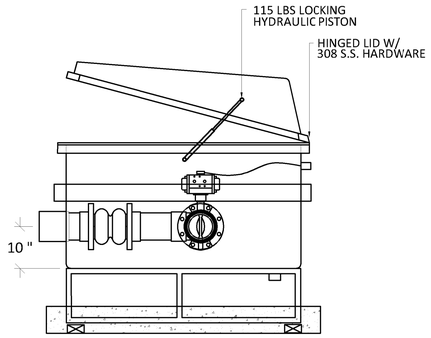


EQUIPMENT COVER
RIGHT SIDE ELEVATION

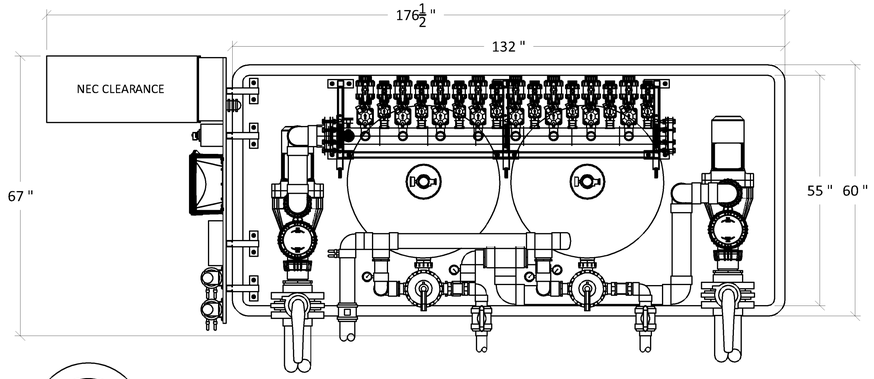
EQUIPMENT LIST	
FEATURE PUMP	SPECK, 9SX, 7.5 HP WITH INTEGRAL BASKET STRAINER, 267 GPM @ 60' TDH, 208-230V, 3Ø, 19.9A
RECIRC PUMP	SPECK, 9SX, 7.5 HP WITH INTEGRAL BASKET STRAINER, 256 GPM @ 60' TDH, 208-230V, 3Ø, 19.9A
COLLECTOR TANK	PRE-CAST CONCRETE (SEE SEPARATE DETAIL)
FILTER ELEMENT (FEATURE)	(8) UNICELL C-7697, 105 SQ FT FILTER AREA EACH (304 GPM MAX)
WATER LEVEL CONTROL	AQUAWORX HYDRAULIC VALVE W/ MANUAL FILL VALVE, RESERVOIR
CHLORINE FEEDER	STENNER 45M5, 50 GPD CAPACITY, 110V
CHLORINE RESERVOIR TANK	65 GALLON WITH LOCKABLE LID
pH FEEDER	STENNER 45M2, 10 GPD CAPACITY, 110V
pH RESERVOIR TANK	30 GALLON WITH LOCKABLE LID
VACUUM GAUGE	WIKA, 0-30 IN HG, LIQUID FILLED, 1/4" NPT, 2" FACE DIAMETER
PRESSURE GAUGE	WIKA, 0-60 PSI, LIQUID FILLED, 1/4" NPT, 2" FACE DIAMETER
CHEMISTRY CONTROLLER	HAYWARD, CAT2000
SAND FILTER (RECIRC)	(2) TRITON, TR140, 7.09 SQ FT FILTER AREA EACH
IWF CONTROLLER	MCG, AQUAWORX FEATURE CONTROLLER
RECIRC FLOWMETER	3" BLUE/WHITE F-30300P, 45 TO 240 GPM RANGE
MULTIPORT VALVE (2)	PENTAIR 261050 HI FLOW
BACKWASH SIGHTGLASS (2)	HAYWARD SP1074S
FEATURE/RECIRC VFD	SPECK, VACCON VFD, 7.5 HP
RAIN DIVERTER MANIFOLD	AQUAWORX, 8" RAIN DIVERTER



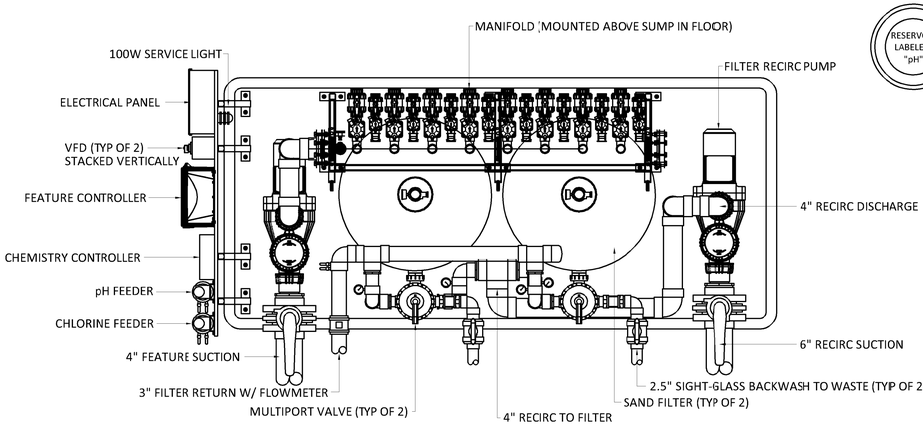
RAIN DIVERTER VAULT
FRONT ELEVATION



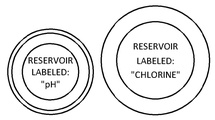
RAIN DIVERTER VAULT
SIDE ELEVATION

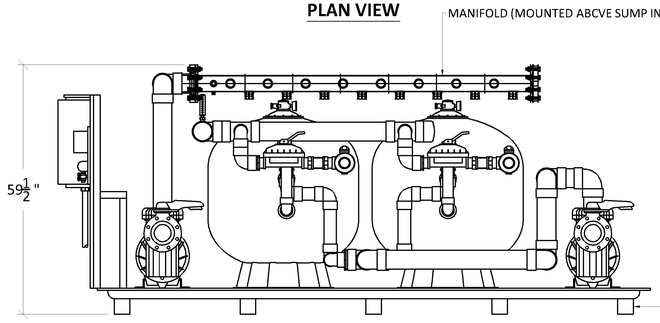


EQUIPMENT
PLAN VIEW

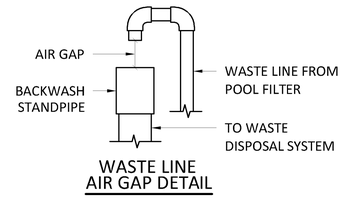


RECIRC EQUIPMENT COMPONENTS ID
PLAN VIEW





EQUIPMENT COMPONENTS ID
FRONT VIEW



WASTE LINE
AIR GAP DETAIL

ADDITIONAL NOTES:

1. PLUMBING - ALL PIPE & FITTINGS SHALL BE SCHEDULE 80 PVC PER ASTM D1785 AND N.S.F. APPROVED AND STAMPED FOR POTABLE WATER APPLICATIONS. JOINTS TO BE SOLVENT WELDED PER ASTM D2855.
2. ELECTRICAL - ALL ELECTRICAL EQUIPMENT WIRING, INSTALLATION AND GROUNDING OF POOL COMPONENTS SHALL CONFORM TO NATIONAL FIRE PROTECTION ASSOC. 70, NATIONAL ELECTRICAL CODE (N.E.C.) LATEST EDITION AND ALL APPLICABLE LOCAL CODES. CHEMICAL FEED PUMPS SHALL BE INTERLOCKED WITH THE RECIRCULATION PUMP.
3. EQUIPMENT - ALL PUMPS, FILTERS AND DISINFECTION EQUIPMENT SHALL BE TESTED AND APPROVED BY THE PERTINENT MANUFACTURER USING THE NSF/ANSI STANDARD 50 AND LISTED AS APPROVED BY THE NSF.
4. THE FILTER ROOM FLOOR SHALL BE SLIP RESISTANT AND SLOPED TO FLOOR DRAINS.
5. ALL PLASTIC PIPING SUBJECT TO PROLONGED SUNLIGHT EXPOSURE MUST BE COATED TO PROTECT IT FROM ULTRAVIOLET LIGHT DEGRADATION.
6. EACH WASTE LINE SHALL HAVE A UNIQUE AIR GAP. WASTE LINES FROM DIFFERENT SOURCES SHALL NOT BE TIED TOGETHER BUT MAY DISCHARGE INTO A COMMON SUMP OR RECEPTACLE.
7. THE WASTE LINE MUST BE CONNECTED TO AN APPROVED WASTE DISPOSAL SYSTEM ACCORDING TO LOCAL OR STATE CODES.
8. COLLECTOR TANK SHALL HAVE LOCKABLE ACCESS HATCH. PIPE PENETRATIONS SHALL BE WATERTIGHT.
9. AN AUTOMATIC AND MANUAL WATER MAKEUP CONTROL SHALL BE PROVIDED TO MAINTAIN THE WATER LEVEL IN THE TANK RESERVOIR. WATER SOURCE SHALL BE PROTECTED BY AN APPROVED 1" RPZ FOR BACKFLOW PREVENTION.
10. A RATE OF FLOW INDICATOR, READING IN GPM, SHALL BE INSTALLED ON THE FILTER RETURN LINE. THE RATE OF FLOW INDICATOR SHALL BE PROPERLY SIZED FOR THE DESIGN FLOW RATE AND SHALL BE CAPABLE OF MEASURING FROM ONE HALF TO AT LEAST ONE-AND-ONE-HALF TIMES THE DESIGN FLOW RATE. THE CLEARANCES UPSTREAM AND DOWNSTREAM FROM THE RATE OF FLOW INDICATOR SHALL COMPLY WITH THE MANUFACTURER'S INSTALLATION SPECIFICATIONS.

18 SPLASHPAD RESERVOIR TANK DETAIL
SCALE: NOT TO SCALE

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. 26890 PROFESSIONAL ENGINEER 11-1-2021 PATRICK N. GRAHAM

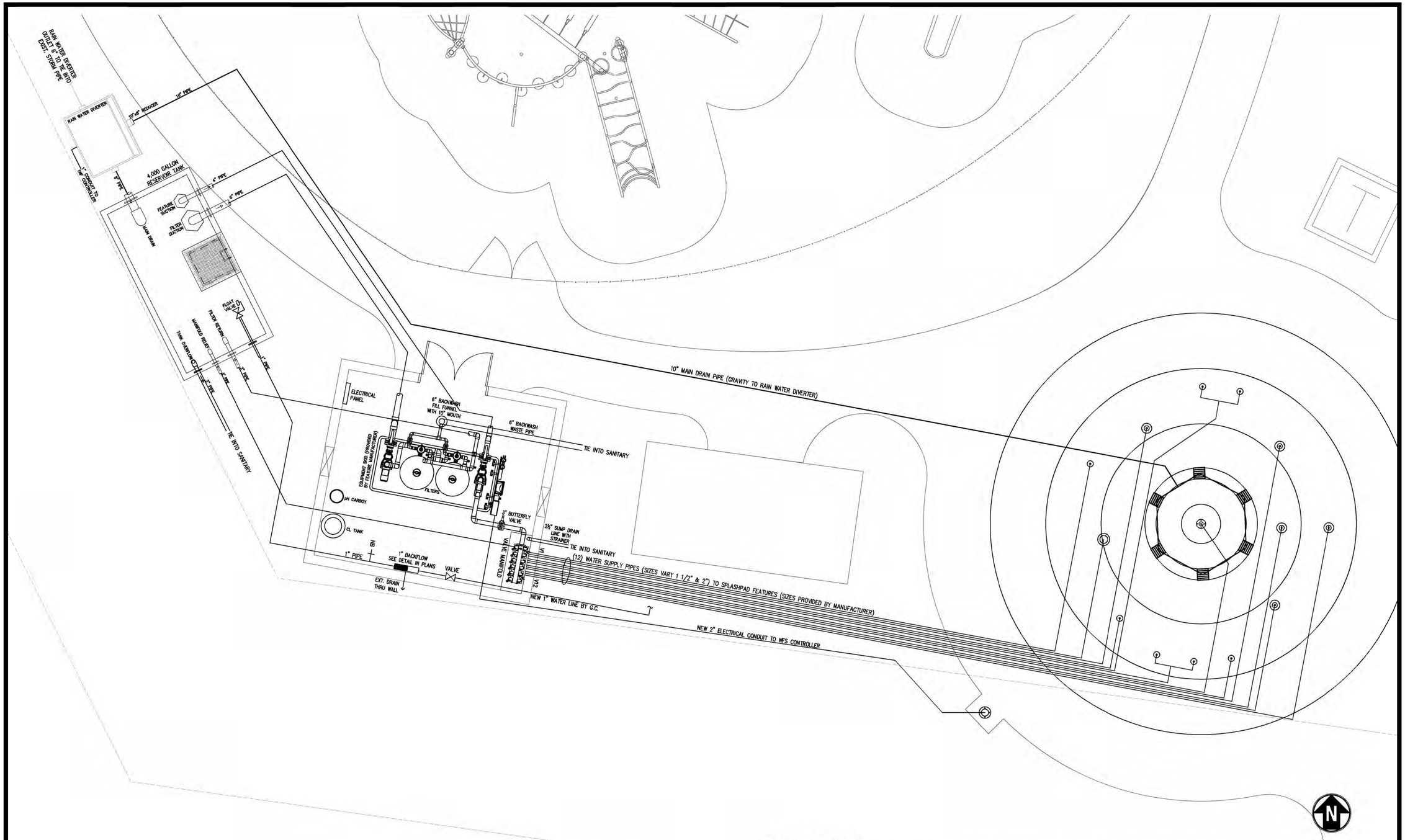
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: MDC
CHECKED BY: PNG
DATE: 11/01/2021
SCALE: NTS
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
SP-12

100% CONSTRUCTION DOCUMENTS

SP-12_061694.DWG



1 SPLASH PAD PIPING PLAN
SCALE: 1/4" = 1'-0"

PIPING NOTES

1. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SPLASH PAD PIPING AS SHOWN. SEE TRENCH DETAIL FOR INSTALLATION DETAILS / GUIDANCE.
2. ALL SPLASH PAD PIPING SHALL BE SCHEDULE 80 PVC OR APPROVED EQUAL.
3. CERTAIN SPLASH PAD EXPANSIONS JOINTS ARE PURPOSEFULLY HIDDEN FOR CLARITY. REFER TO PREVIOUS SHEETS FOR FULL EXPANSION JOINT LAYOUT.
4. SPLASH PAD PIPE JOINTS ARE TO BE GLUED CONNECTIONS. MECHANICAL CONNECTIONS WILL NOT BE ACCEPTED.
5. PIPING SHALL BE INSTALLED AT DEPTHS REQUIRED TO MAINTAIN SPLASH PAD'S OPERATION AND WINTERIZATION. PIPING SHALL BE PITCHED WHEN REQUIRED TO WINTERIZE THE LINES.
6. PIPE & PIPE FITTING MATERIALS SHALL BE MANUFACTURED BY SPEARS CORPORATION OR APPROVED EQUAL.
7. ELECTRICAL CONDUIT SHALL BE SCHEDULE 40 PVC OR APPROVED EQUAL.

GEORGIA811
Utilities Protection Center, Inc
Know what's below. Call before you dig.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. 26890 PROFESSIONAL ENGINEER PATRICK N. GRAHAM 11-1-2021

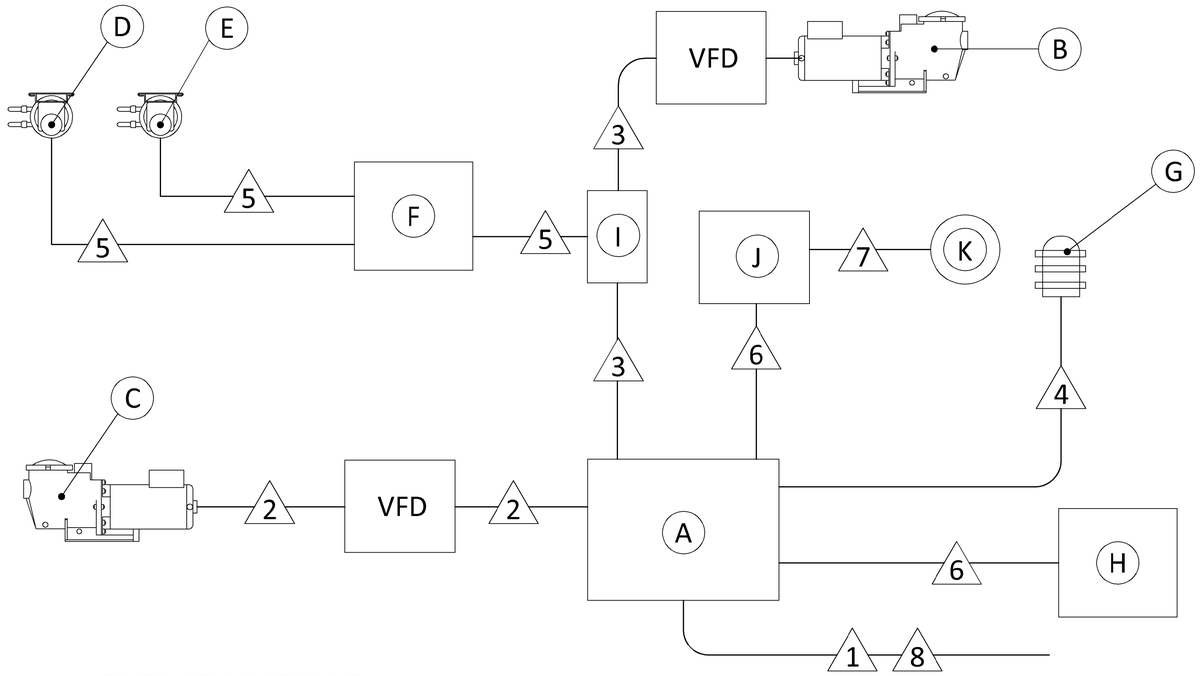
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: MDC
CHECKED BY: PNG
DATE: 11/01/2021
SCALE: 1/4"= 1'-0"
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
SP-13

100% CONSTRUCTION DOCUMENTS

SP-13_061694.DWG



FIXTURE SCHEDULE:

MARK	DESCRIPTION	VOLTAGE	MANUFACTURER & MODEL NO.
A	MAIN LUG BREAKER PANEL (12 CIRCUIT)	240V 1PH	SIEMENS, PW1224L3125CU
B	RECIRCULATION PUMP	240V 1 PH	SPECK, 95X, 7.5 HP
C	FEATURE PUMP	240V 1PH	SPECK, 95X, 7.5 HP
D	CHLORINE FEEDER PUMP	115V	STENNER 45M5
E	ACID FEEDER PUMP	115V	STENNER, 45M2
F	CHEMICAL CONTROLLER	115V	HAYWARD CAT 2000
G	100 WATT SERVICE LIGHT FIXTURE	115V	INTERMATIC, VPXG11GCI 100W
H	GFCI DUPLEX RECEPTACLE	115V	PASS & SEYMOUR
I	ELECTRICAL INTERLOCK	115/208-230V	MCG, 40A DEFINITE PURPOSE CONTACTOR
J	FEATURE CONTROLLER	115/208-230V	WATER ODYSSEY FEATURE CONTROLLER
K	ACTIVATION BOLLARD	12/24/115V	WATER ODYSSEY FEATURE ACTIVATOR

1 SPLASHPAD SCHEMATIC
SCALE: NOT TO SCALE

FEEDER & CIRCUIT SCHEDULE:

MARK	CONDUCTORS PHASE	NEUTRAL	GROUND	CONDUIT	REMARKS
1					PANEL FEED
2	3 -#8		1 - #8	1"	UL SEALTITE
3	3 -#8		1 - #8	1"	UL SEALTITE
4	1 -#12	1 - #12	1 - #12	1/2"	SEALTITE TO PANEL
5	1 -#12	1 - #12	1 - #12	1/2"	SEALTITE TO PANEL
6	1 -#12	1 - #12	1 - #12	1/2"	SEALTITE TO PANEL
7	2 -#18	1 - #18	1 - #18	1/2"	SEALTITE TO PANEL
8	CONDUCTORS AND CONDUIT INSTALLED BY OTHERS				

PANEL SCHEDULE:

3-PHASE, 4-WIRE — 208Y/120 VAC OR 240 VAC INSULATED/BONDABLE NEUTRAL
CURRENT WITHSTAND RATING MAX. RMS. SYM. 10,000A 12/240V

CIRCUIT	POLE	TRIP	LOAD	AMPS
1-3	3	40A GFI	REC. PUMP W/INTERLOCKED CHEMICALS	23.3
4-6	3	40A GFI	FEATURE PUMP	19.9
7	1	20A	GFCI	3.0
8	1	20A	SERVICE LIGHT	1.5
9	1	20A	FEATURE CONTROLLER	1.1
10-12			SPARE	
			TOTAL MAXIMUM LOAD	48.8

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. 26890 PROFESSIONAL ENGINEER PATRICK N. GRAHAM 11-1-2021

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY MDC
CHECKED BY PNG
DATE: 11/01/2021
SCALE: NTS
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
SP-14

100% CONSTRUCTION DOCUMENTS

SP-14_061694.DWG

12'X12' PAVILION DETAILS

GENERAL NOTES:
UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED TO ONLY SUPPORT WHAT IS SHOWN ON THESE DRAWINGS. MFG MUST BE CONTACTED IF ANYTHING ELSE IS TO BE ATTACHED TO THIS STRUCTURE (WALLS, COLUMN WRAPS, RAILINGS, ETC.) SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED ASSUMING A 20' SEPARATION BETWEEN ANY ADJACENT STRUCTURE WITH AN EAVE HEIGHT EQUAL TO OR GREATER THAN THE EAVE HEIGHT OF THIS STRUCTURE. IF THAT SEPARATION DOES NOT EXIST, SRP MUST BE CONTACTED SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL.

ALL WELDING IS PERFORMED BY AMERICAN WELDING SOCIETY CERTIFIED WELDERS AND CONFORMS TO THE LATEST EDITION OF AWS D1.1 OR D1.3 AS REQUIRED.

PARTS SHOWN MAY BE UPGRADED DUE TO STANDARDIZED FABRICATION. REFER TO THE SHIPPING BILL OF MATERIALS FOR POSSIBLE SUBSTITUTIONS.

FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT THE PRIMARY FRAME INSTALLER AND THE ROOF INSTALLER HAVE A MINIMUM FIVE (5) YEARS DOCUMENTED EXPERIENCE INSTALLING THIS TYPE OF PRODUCT.

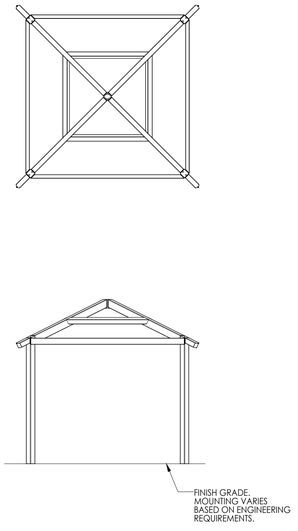
FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT ELECTRIC WIRING, IF REQUIRED, BE RUN THROUGH THE STRUCTURAL MEMBERS BEFORE THE BUILDING IS ERECTED.

SHELTER MANUFACTURER SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE SHELTER INCLUDING BUT NOT LIMITED TO:

- ALL STRUCTURAL COMPONENTS
- ALL FINISHES
- ALL FOUNDATIONS
- SIGNED & SEALED DESIGN CALCULATIONS SIGNED BY AN ENGINEER LICENSED IN THE STATE OF CONSTRUCTION.

MATERIALS:

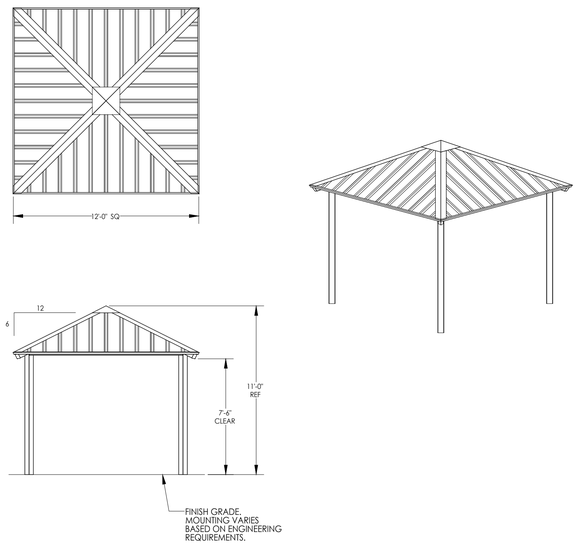
DESCRIPTION	ASTM DESIGNATION
TUBE STEEL	A500 (GRADE B)
SCHEDULE PIPE	A53 (GRADE B)
RMT PIPE	A519
LIGHT GAGE COLD FORMED	A1003 (GRADE 50)
STRUCTURAL STEEL PLATE	A36
ROOF PANELS (STEEL)	A653



3 / A1 12'-0" X 12'-0" STRUCTURAL & FRAMING PLAN
SCALE: N.T.S.

GENERAL ROOF NOTES:

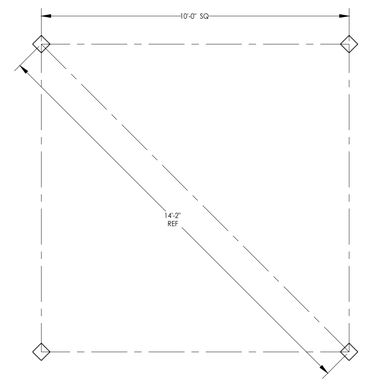
1. METAL ROOFING:
   - 24 GAUGE
   - GALVALUME COATED
   - KYNAR 500 PAINTED
2. TRIM COLOR MATCHES ROOF



1 / A1 12'-0" X 12'-0" PLAN & ELEVATION
SCALE: N.T.S.

BASEPLATE NOTES:

1. MFG ENGINEERING WILL DETERMINE REQUIRED BASEPLATE DESIGN AFTER ENGINEERING PACKAGE IS ORDERED.
2. CUSTOMER MAY SUGGEST PREFERRED BASEPLATE DESIGN.



2 / A1 12'-0" X 12'-0" COLUMN PLAN
SCALE: N.T.S.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 , www.chacompanies.com

STATE OF GEORGIA
KARL D. LEABO
CERTIFICATE NO. 019981
REGISTERED ARCHITECT

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY	RS/AM
CHECKED BY	KRA
DATE:	11/01/2021
SCALE:	NTS
JOB No.	20-LD-025 / 061694.00

SHEET NUMBER
A-1

100% CONSTRUCTION DOCUMENTS

30'X30' PAVILION DETAILS

GENERAL NOTES:
UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED TO ONLY SUPPORT WHAT IS SHOWN ON THESE DRAWINGS. MFG MUST BE CONTACTED IF ANYTHING ELSE IS TO BE ATTACHED TO THIS STRUCTURE (WALLS, COLUMN WRAPS, RAILINGS, ETC.) SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED ASSUMING A 20' SEPARATION BETWEEN ANY ADJACENT STRUCTURE WITH AN EAVE HEIGHT EQUAL TO OR GREATER THAN THE EAVE HEIGHT OF THIS STRUCTURE. IF THAT SEPARATION DOES NOT EXIST, SRP MUST BE CONTACTED SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL.

ALL WELDING IS PERFORMED BY AMERICAN WELDING SOCIETY CERTIFIED WELDERS AND CONFORMS TO THE LATEST EDITION OF AWS D1.1 OR D1.3 AS REQUIRED.

PARTS SHOWN MAY BE UPGRADED DUE TO STANDARDIZED FABRICATION. REFER TO THE SHIPPING BILL OF MATERIALS FOR POSSIBLE SUBSTITUTIONS.

FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT THE PRIMARY FRAME INSTALLER AND THE ROOF INSTALLER HAVE A MINIMUM FIVE (5) YEARS DOCUMENTED EXPERIENCE INSTALLING THIS TYPE OF PRODUCT.

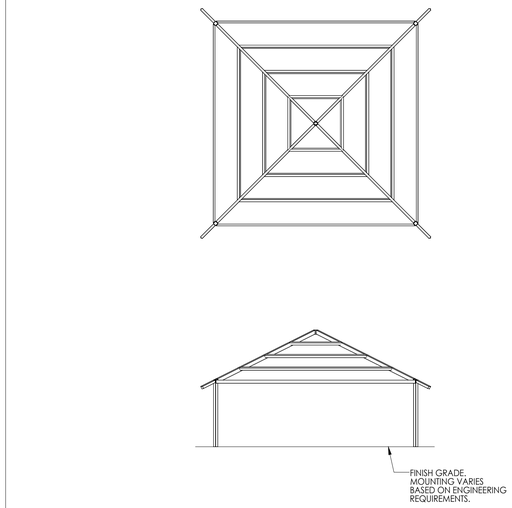
FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT ELECTRIC WIRING, IF REQUIRED, BE RUN THROUGH THE STRUCTURAL MEMBERS BEFORE THE BUILDING IS ERECTED.

SHELTER MANUFACTURER SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE SHELTER INCLUDING BUT NOT LIMITED TO:

- ALL STRUCTURAL COMPONENTS
- ALL FINISHES
- ALL FOUNDATIONS
- SIGNED & SEALED DESIGN CALCULATIONS SIGNED BY AN ENGINEER LICENSED IN THE STATE OF CONSTRUCTION.

MATERIALS:

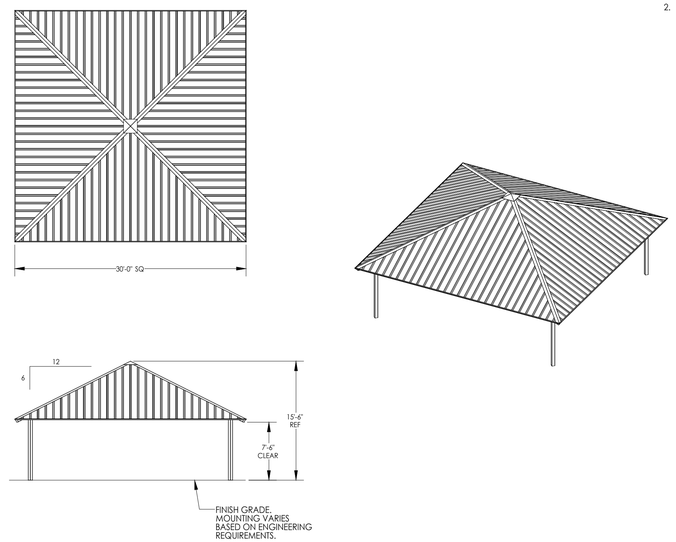
DESCRIPTION	ASTM DESIGNATION
TUBE STEEL	A500 (GRADE B)
SCHEDULE PIPE	A53 (GRADE B)
RMT PIPE	A519
LIGHT GAGE COLD FORMED	A1003 (GRADE 50)
STRUCTURAL STEEL PLATE	A36
ROOF PANELS (STEEL)	A653



3 / A2 30'-0" X 30'-0" STRUCTURAL & FRAMING PLAN
SCALE: N.T.S.

GENERAL ROOF NOTES:

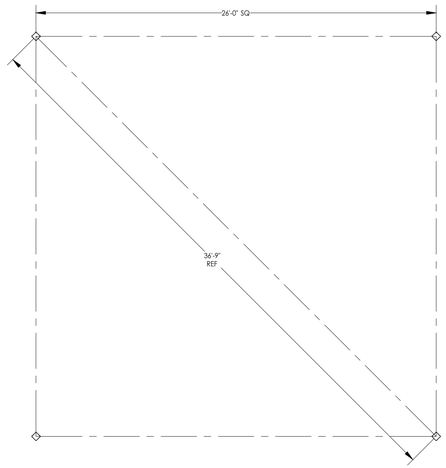
1. METAL ROOFING:
   - 24 GAUGE
   - GALVALUME COATED
   - KYNAR 500 PAINTED
2. TRIM COLOR MATCHES ROOF



1 / A2 30'-0" X 30'-0" PLAN & ELEVATION
SCALE: N.T.S.

BASEPLATE NOTES:

1. MFG ENGINEERING WILL DETERMINE REQUIRED BASEPLATE DESIGN AFTER ENGINEERING PACKAGE IS ORDERED.
2. CUSTOMER MAY SUGGEST PREFERRED BASEPLATE DESIGN.



2 / A2 30'-0" X 30'-0" COLUMN PLAN
SCALE: N.T.S.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 , www.chacompanies.com

STATE OF GEORGIA
KARL D. LEABO
CERTIFICATE NO. 019881
REGISTERED ARCHITECT

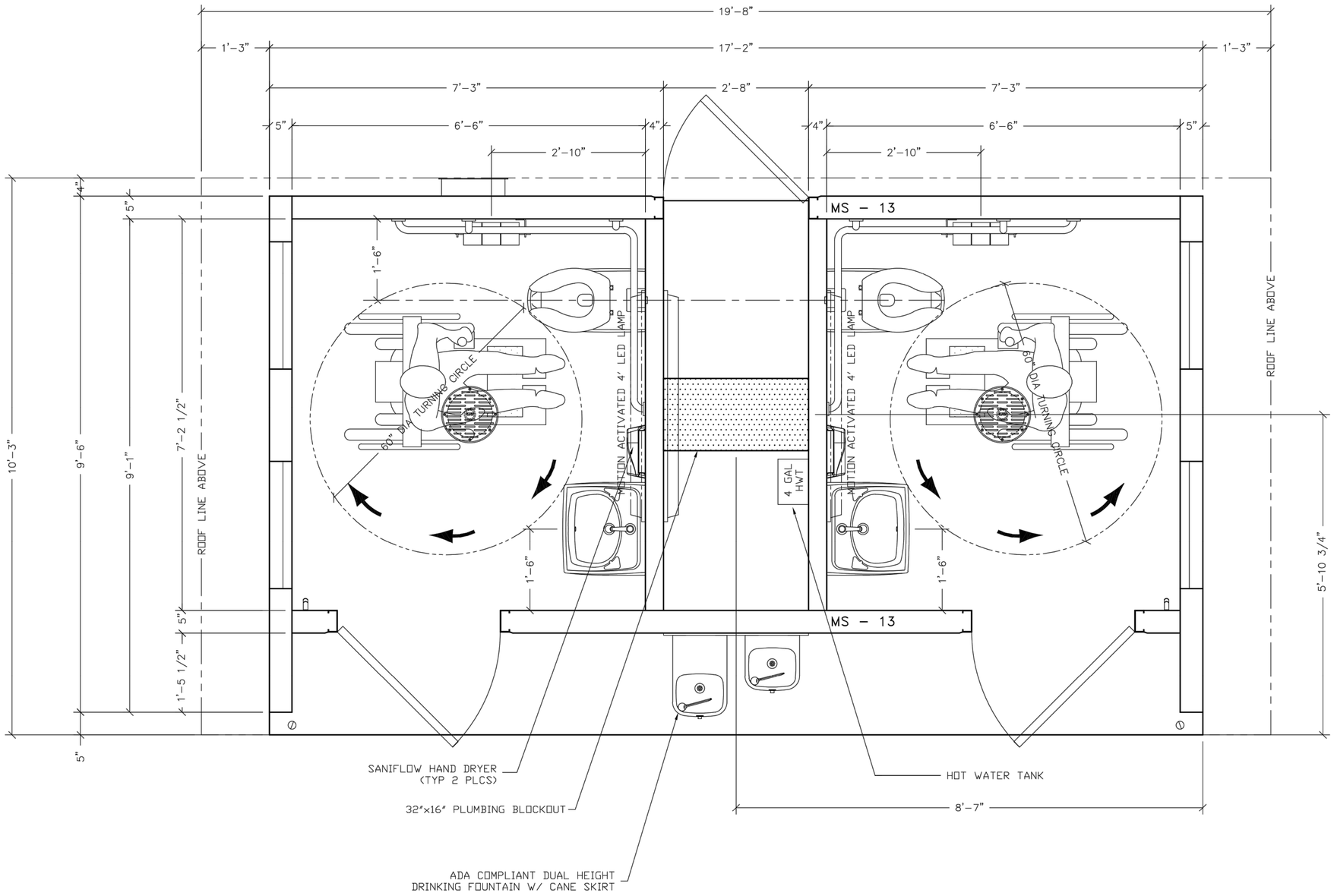
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY	RS/AM
CHECKED BY	KRA
DATE:	11/01/2021
SCALE:	NTS
JOB No.	20-LD-025 / 061694.00

SHEET NUMBER
A-2

100% CONSTRUCTION DOCUMENTS



1 / A3 RESTROOM FLOOR PLAN

SCALE: 1" = 1'-0"

0 1/2" 1" 2"

BASIS OF DESIGN:
DENALI PRECAST RESTROOM
BY CXT PRECAST PRODUCTS

100% CONSTRUCTION DOCUMENTS

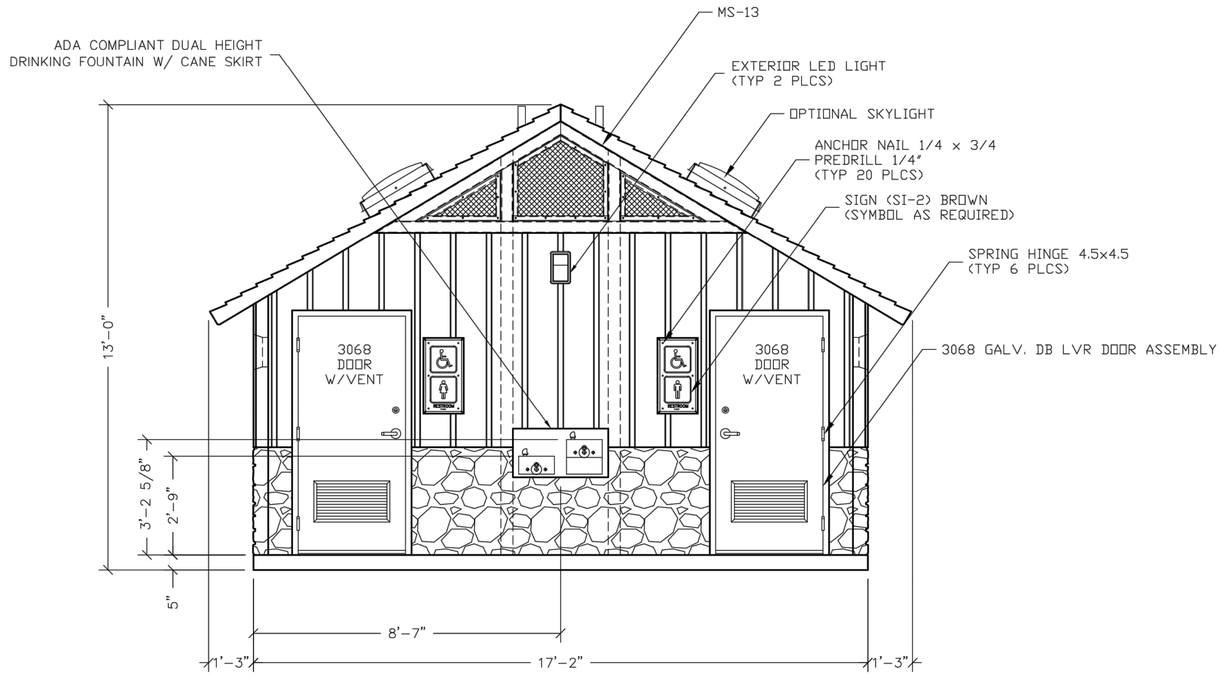
CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 . www.chacompanies.com

STATE OF GEORGIA
KARL D. LEABO
CERTIFICATE NO. 019881
REGISTERED ARCHITECT

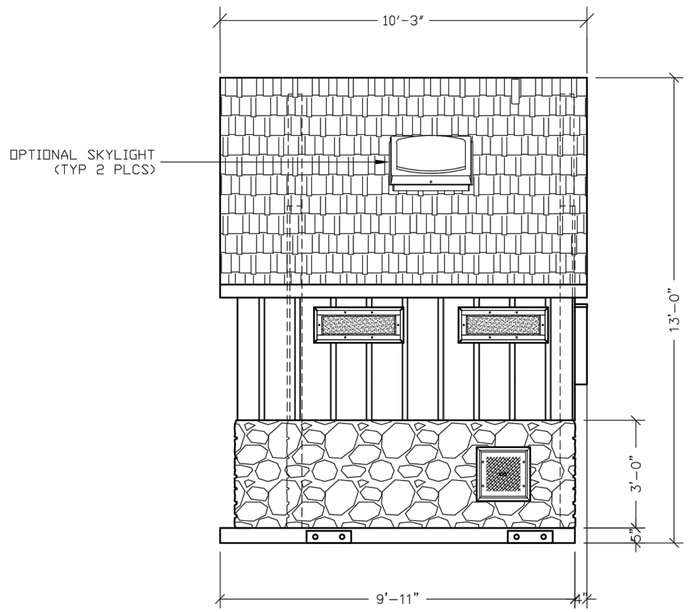
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

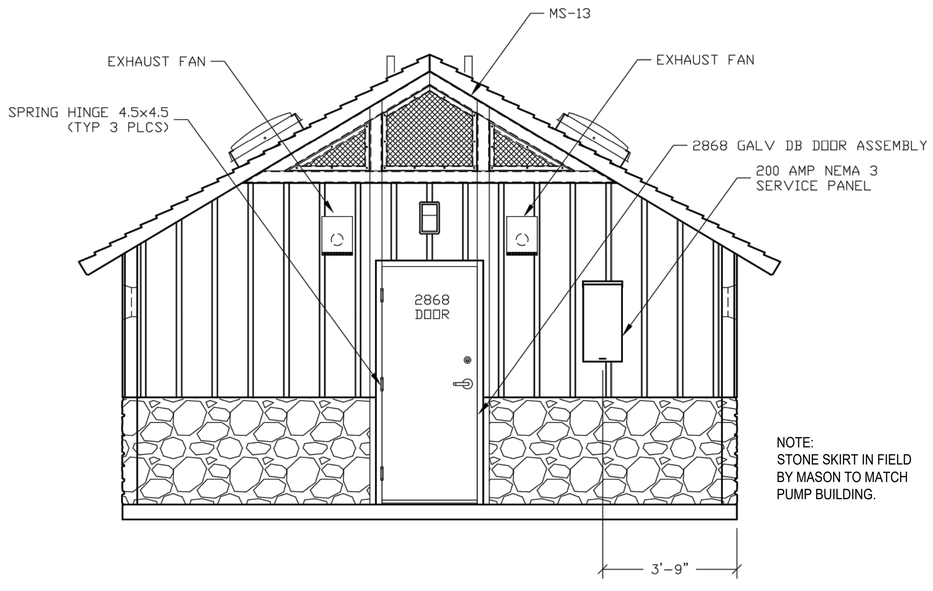
DRAWN BY: RS/AM
CHECKED BY: KRA
DATE: 11/01/2021
SCALE: 1"=1'-0"
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
A-3



FRONT ELEVATION

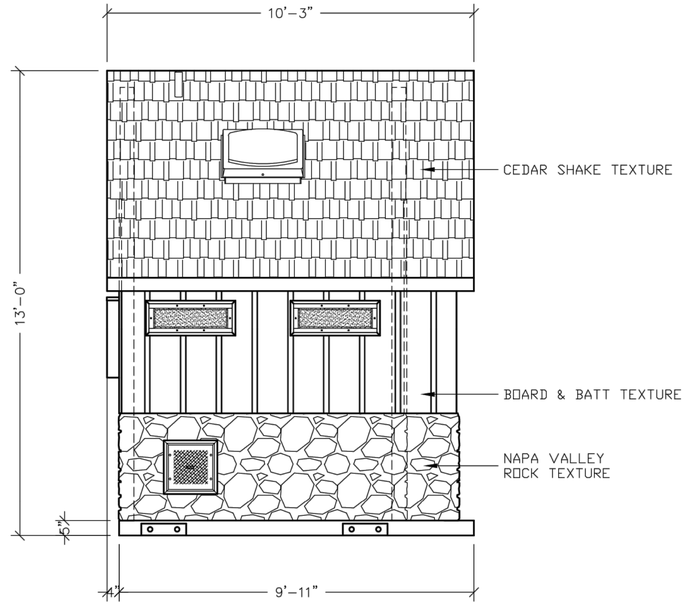


RIGHT SIDE ELEVATION



NOTE:
STONE SKIRT IN FIELD
BY MASON TO MATCH
PUMP BUILDING.

REAR ELEVATION



LEFT SIDE ELEVATION

1 / A4 RESTROOM ELEVATIONS

SCALE: 1/2" = 1'-0"

0 1' 2' 4'

BASIS OF DESIGN:
DENALI PRECAST RESTROOM
BY CXT PRECAST PRODUCTS

100% CONSTRUCTION DOCUMENTS

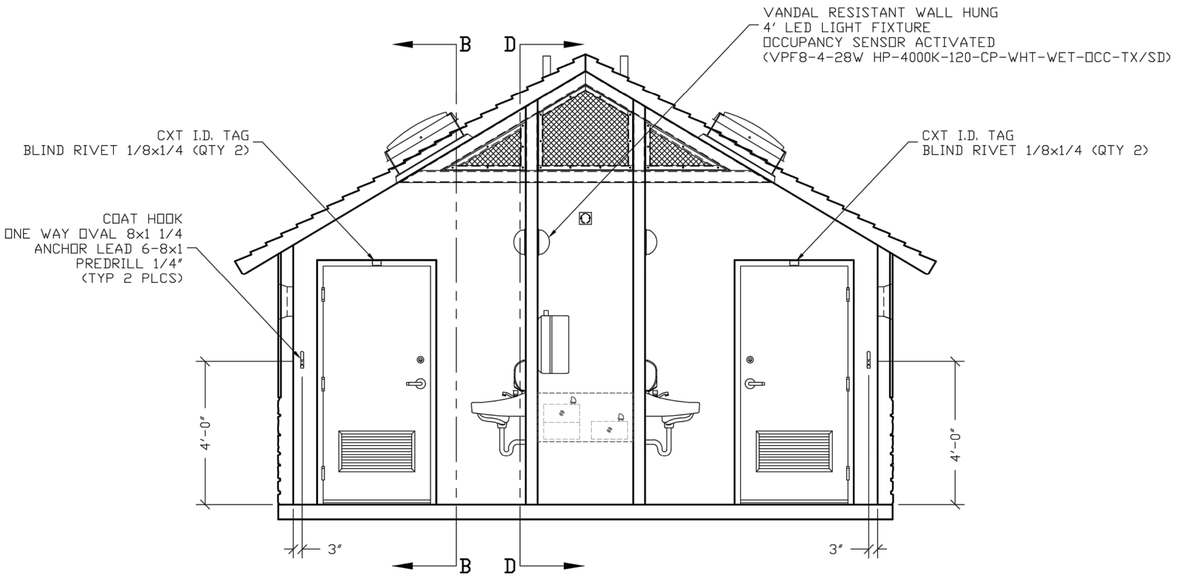
CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 . www.chacompanies.com

STATE OF GEORGIA
KARL D. LEABO
CERTIFICATE NO. 019981
REGISTERED ARCHITECT

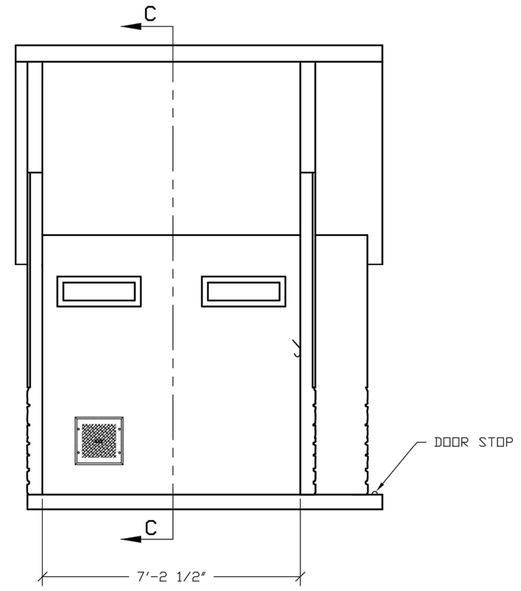
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

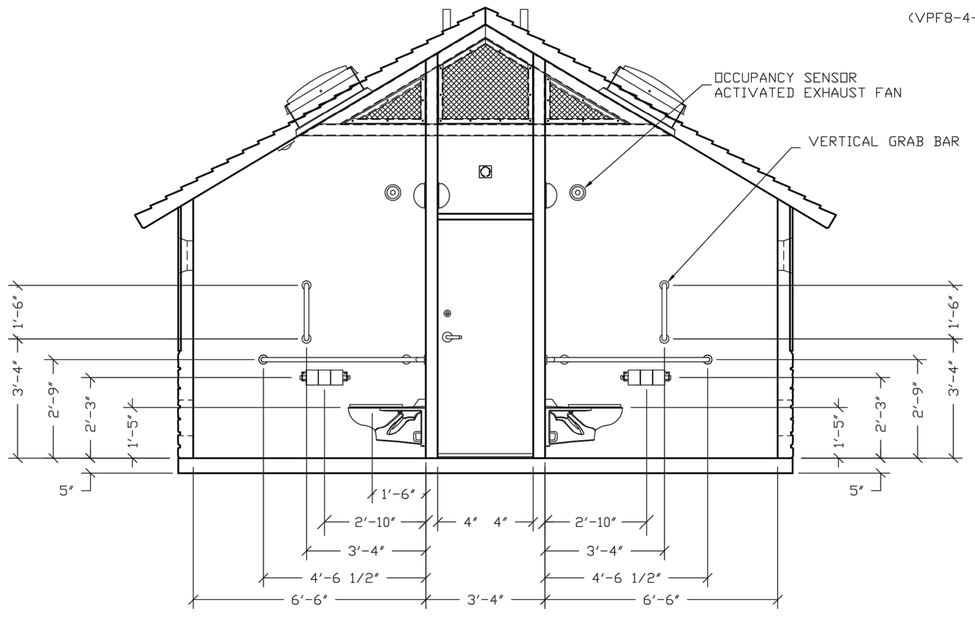
DRAWN BY: RS/AM
CHECKED BY: KRA
DATE: 11/01/2021
SCALE: 1/2" = 1'-0"
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
A-4



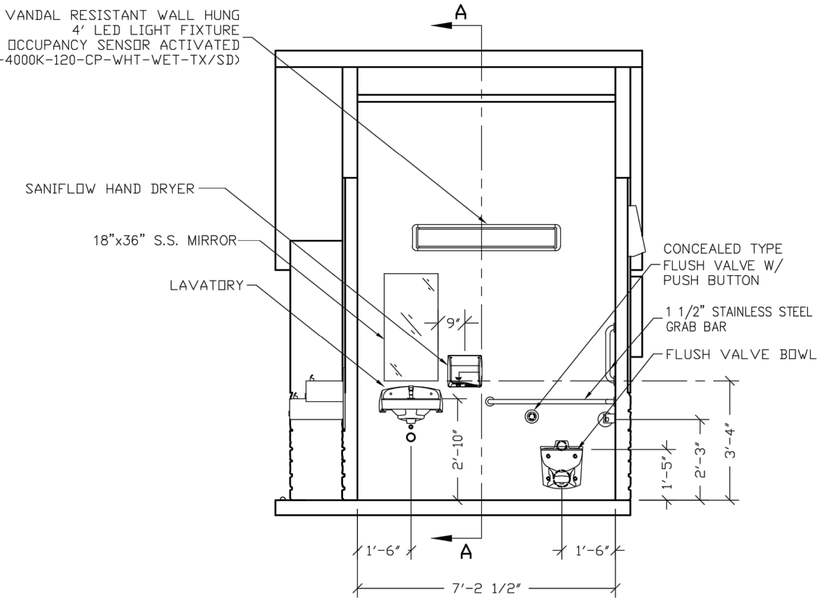
SECTION A – A



SECTION B – B



SECTION C – C



SECTION D – D

1 / A5 RESTROOM SECTIONS

SCALE: 1" = 1'-0"

0 1/2" 1" 2"

BASIS OF DESIGN:
DENALI PRECAST RESTROOM
BY CXT PRECAST PRODUCTS

100% CONSTRUCTION DOCUMENTS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 . www.chacompanies.com

STATE OF GEORGIA
KARL D. LEABO
CERTIFICATE NO. 019681
REGISTERED ARCHITECT

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: RS/AM
CHECKED BY: KRA
DATE: 11/01/2021
SCALE: 1/2"=1'-0"
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER

A-5

GENERAL PROVISIONS

1.0 DEFINITIONS

1.1 Contractor shall be defined as both general contractor and sub-contractors unless otherwise noted.

2.0 GENERAL NOTES

2.1 The intention of these specifications and associated drawings are to call for finished work, tested, and ready for operation whenever the word "provide" is used. It shall mean "furnished and installed complete and ready for use".

2.2 It is the intent of this contract to deliver to the owner a "new" project once work is complete. Although plans and specifications are complete to the greatest extent possible, it shall be responsibility of the contractors involved to remove and/or relocate or re-attach any existing or new systems which interfere with new equipment or materials to be installed by other trades without additional cost to the owner.

2.3 The owner shall be responsible for all necessary permits and related fees for this project.

2.4 Contractor is responsible for providing all materials, labor, tools and equipment.

2.5 Contractor and Sub-Contractor shall be properly licensed as required by local municipalities and the Commonwealth of Virginia.

2.6 The equipment rough-ins as shown are accurate to the best of our knowledge; however, in some instances the owner or supplier may substitute or the equipment may vary from what is shown. Therefore, the contractor shall verify all critical dimensions with the owner prior to construction. Failure for the contractor to verify these dimensions shall place the responsibility for any subsequent relocation directly upon the contractor.

2.7 Any deviation from plans without prior approval of the Owner shall be cause for the rejection of materials and/or methods an any cost incurred to correct such deviation to the satisfaction of the Owner shall be borne by the Contractor.

2.8 Where named products, materials or methods are accompanied by "or equal" or other language of the same effect, Contractor's requests to use unnamed products, materials or methods are considered requests of substitutions and are subject to review by the Owner. All pertinent information, data, literature, samples, etc. must be submitted and approved prior to use or installation. The Contractor is responsible for delays, repairs and replacement costs for any unauthorized substitutions.

2.9 All material shall be installed in accordance with manufacturer's recommendations.

2.10 Provide all excavation and tamp-backfill as required to complete work. Correct any settling during guarantee period to Owner's satisfaction.

2.11 Contractor and Subcontractor shall maintain a Certificate of Insurance for workman's compensation, public liability and property damage for the limits required by law for the duration of the project.

2.12 Contractor shall coordinate tasks which generate excessive noise and delivery of materials to the site in a manner which will not hinder the normal operations.

2.13 Contractor shall be responsible for the security of the project and for the discipline of all workers on the project. All materials, equipment, fixtures, and finishes supplied by the Owner shall be inventoried by and accountable to the Contractor. Loss by theft or negligence and/or damage which shall be cause for replacement shall be the responsibility of the Contractor.

2.14 Each trade will be responsible for knowledge of the general notes within the construction documents.

3.0 DRAWINGS AND SPECIFICATIONS

3.1 The drawings are diagrammatic only and indicate the general arrangement of the systems and are to be followed insofar as possible. If deviations from the layout are necessitated by field conditions, the Contractor shall notify the Owner's Representative for approval before proceeding with the work. The contract drawings are not intended to show every vertical or horizontal offset or detail which may be necessary to complete the work. Contractors shall, however, anticipate that additional offsets may be required and submit their bid accordingly.

3.2 The Contractor shall make all his own measurements in the field and shall be responsible for correct fitting. He shall coordinate all work to cause a minimum of conflict or delay.

3.3 The Contractor shall review all other drawings in detail as they may relate to his work. Review all drawings for general coordination of work.

3.4 Contractor shall ensure that any deviations from the design are recorded on the as-built drawings on a daily basis. One set of as-built drawings shall be delivered to the Owner upon substantial completion of the project. Compliance shall be a contingency of final payment.

3.5 The General Contractor shall be responsible for reviewing all the dimensions in the drawings and advising the Owner's Representative of any differences in dimensions between drawings prior to commencing construction.

4.0 EXAMINATION OF SITE

4.1 All contractors shall visit the site and acquaint themselves with existing conditions prior to bid date.

4.2 The submission of a proposal will be construed as evidence the Contractor has familiarized himself with the plans and building site. Claims made subsequent to the proposal for materials and labor, because of difficulties encountered, will not be recognized if they could have been foreseen had proper examination been made. Contractor shall accept conditions as they exist on bid date.

5.0 GUARANTEE

5.1 All work including all materials, equipment and labor shall be guaranteed against defects for period of one year beginning with date of completion. Any defective work or material shall be repaired or replaced at no cost to the Owner if occurring during the guarantee period. The effective date of completion of the work shall be the date of the Certificate of Occupancy.

6.0 SAFETY

6.24 General Contractor shall ensure the work executed or performed on the project site shall be within all published federal and state Occupational Safety and Health Administration guidelines.

7.0 COMMISSIONING

7.1 Contractor shall assist the Owner & waterplay with the commissioning of the waterplay system. A commissioning checklist can be provided by Owner upon request.

BUILDING SUMMARY

APPLICABLE CODES:
2018 IBC
2018 IPC

BUILDING PLANNING:
CONSTRUCTION TYPE: VB
NOT SPRINKLER PROTECTED

SEISMIC DESIGN DATA:
SEISMIC DESIGN CATEGORY B
SITE CLASS D
SOIL BEARING CAPACITY 1500 PSF

GENERAL BUILDING LIMITATIONS:
AREA PERMITTED : 5,500 SF
AREA BY DESIGN : 423 SF
HEIGHT PERMITTED : 2 STORIES/ 40'-0"
HEIGHT BY DESIGN : 1 STORY/ 13'-5"+/-

DESIGN LOADS ARE BASED ON THE 2018 IBC AND GEORGIA STATE BUILDING CODE WITH 2020 GEORGIA STATE AMENDMENTS

ROOF DEAD LOADS:

STANDING SEAM METAL ROOF	2.5	PSF
SHEATHING	3	PSF
ICE AND WATER SHIELD	1	PSF
MECH/ELEC/PLUMB	4	PSF
TOTAL	10.5	PSF

FLOOR LIVE LOADS:

	UNIFORM	CONCENTRATED
GROUND SLAB	125 PSF	N/A
PUMP EQUIPMENT		

ROOF LIVE LOAD: 20 PSF

ROOF SNOW LOAD:

GROUND SNOW LOAD, P_G:	5	PSF
FLAT-ROOF SNOW LOAD, P_F:	5	PSF
SNOW EXPOSURE FACTOR, C_E:	1.0	
SNOW LOAD IMPORTANCE FACTOR, I_S:	1.0	
THERMAL FACTOR, C_T:	1.1	

WIND DESIGN DATA:

RISK CATEGORY:	II	
ULTIMATE DESIGN WIND SPEED (3-SECOND GUST), V_{ULT}:	105	MPH
NOMINAL DESIGN WIND SPEED, V_{ASD}:	90	MPH
WIND EXPOSURE CATEGORY:	B	
INTERNAL PRESSURE COEFFICIENT, GC_{Pi}:	+/- 0.18	

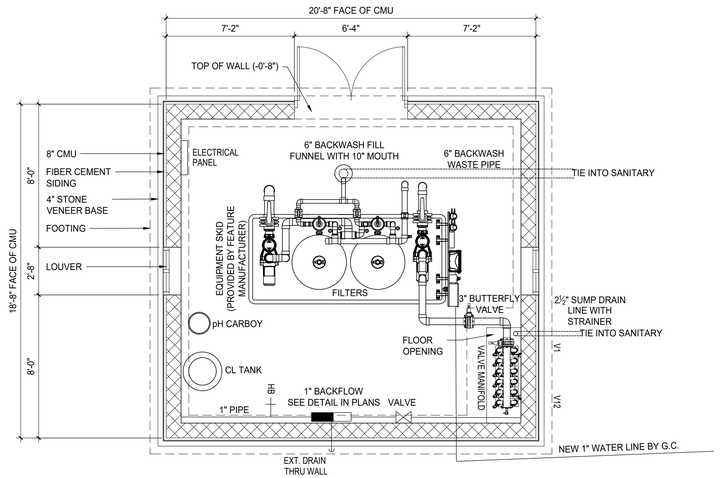
EARTHQUAKE DESIGN DATA:

RISK CATEGORY:	II
SEISMIC IMPORTANCE FACTOR, I_E:	1.00
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S_S = 0.2 S_1 = 0.088
SITE CLASS:	D
DESIGN SPECTRAL RESPONSE ACCELERATIONS:	S_{DS} = 0.214 S_{D1} = 0.141
SEISMIC DESIGN CATEGORY:	C
BASIC SEISMIC-FORCE-RESISTING SYSTEM:	ORDINARY MASONRY SHEAR WALL
DESIGN BASE SHEAR:	1.393 KIPS
SEISMIC RESPONSE COEFFICIENT, C_S:	0.107
RESPONSE MODIFICATION FACTOR, R:	2
ANALYSIS PROCEDURE USED:	EQUIVALENT LATERAL FORCE ANALYSIS

GEOTECHNICAL INFORMATION:

PRESUMPTIVE DESIGN ALLOWABLE SOIL BEARING PRESSURE:	1500 PSF
MOIST UNIT WEIGHT OF BACKFILL	125 POUNDS PER CUBIC FOOT
INTERNAL FRICTION ANGLE OF BACKFILL	35 DEGREES
COEFFICIENT OF SLIDING FRICTION	0.35
MINIMUM SAFETY FACTOR AGAINST SLIDING AND OVERTURNING	1.5 - SLIDING; 2.0 - OVERTURNING

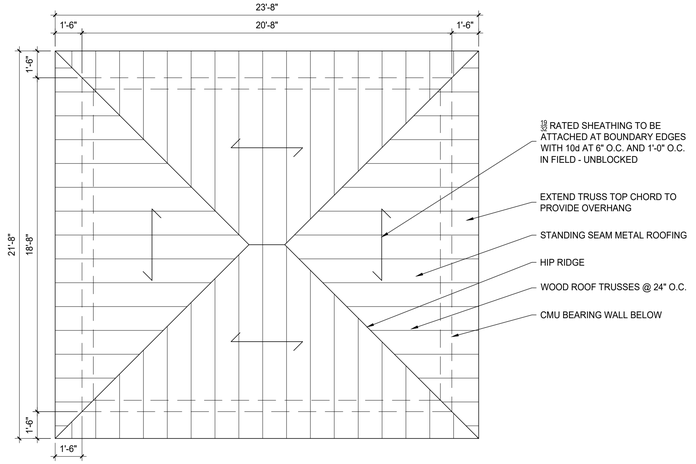
FLOOD DESIGN DATA:
THIS BUILDING IS NOT DESIGNED FOR FLOOD LOADS.



POOL EQUIPMENT LAYOUT AND WALL PENETRATIONS SHALL BE COORDINATED WITH AQUATICS REQUIREMENTS

NOTE "A":
PROVIDE 2 -3'0"x7'0" HOLLOW METAL DOORS WITH BUTTED METAL MASONRY JAMB/FRAME; 14 GAGE. HARDWARE SHALL BE 10" PULL HANDLES ON BOTH LEAFS AND ONE DEADBOLT LOCK WITH THUMBTURN ON INSIDE. DEADBOLT MUST BE ABLE TO ACCEPT A "BEST LOCK" 7 PIN, INTERCHANGEABLE CORE. INSTALL ASTRAGAL ON ACTIVE LEAF AND VERTICAL BOLTS ON INACTIVE LEAF. INSTALL THRESHOLD, DOOR SWEEP AND WEATHERSTRIPPING. DOOR & FRAME TO BE PAINTED; COLOR SELECTED BY OWNER.

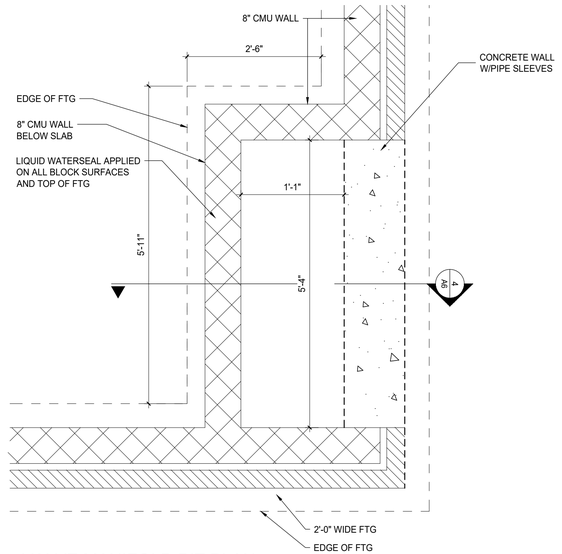
1 / A6 PUMP HOUSE FLOOR PLAN
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



SHOP-FABRICATED WOOD TRUSS NOTES:

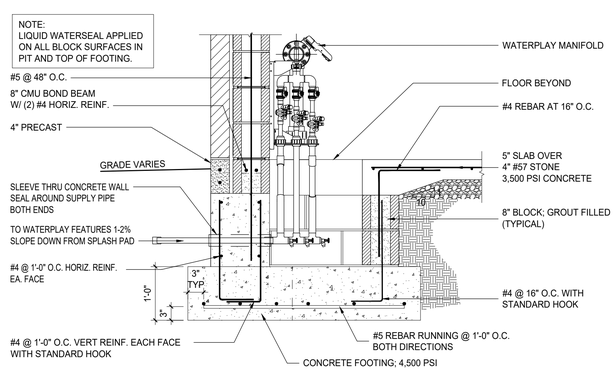
1. SHOP-FABRICATED WOOD TRUSS STANDARD: COMPLY WITH THE APPLICABLE EDITION, PROVISIONS AND RECOMMENDATIONS OF AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) / TRUSS PLATE INSTITUTE (TPI) NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION (ANSI / TPI 1).
2. COMPLY WITH APPLICABLE EDITION, PROVISIONS AND RECOMMENDATIONS OF THE STRUCTURAL BUILDING COMPONENTS ASSOCIATION (SBCA) BUILDING COMPONENT SAFETY INFORMATION (BCSI) - GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES.
3. DELEGATE THE DESIGN OF SHOP-FABRICATED WOOD TRUSSES AND RESTRAINT BRACING TO A METAL PLATE CONNECTED TO WOOD TRUSS ENGINEER. TRUSS LAYOUT DRAWINGS AND CALCULATIONS ARE TO BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA AND SUBMITTED TO ARCHITECT FOR REVIEW.
4. PROVIDE SHOP-FABRICATED WOOD TRUSSES WITH CHORD AND WEB MEMBERS IN ONE PLANE. USE METAL CONNECTOR PLATES WHICH DEVELOP DESIGN STRENGTH REQUIRED OF JOINTS. TEETH PLACED IN KNOTS, UNSOUND WOOD, BARK, HOLES, WANES AND JOINT GAPS ARE TO BE CONSIDER TO BE INEFFECTIVE.
5. PROVIDE SHOP=FABRICATED WOOD ROOF TRUSSES DESIGNED FOR MAXIMUM TRUSS DEFLECTION OF L/360 FOR TOTAL LIVE LOADS AND L/240 FOR TOTAL LOAD. NO SNOW LIVE LOAD REDUCTION WILL BE PERMITTED FOR SLOPE.
6. TRUSS ENGINEER TO SPECIFY HURRICANE CLIPS AS PART OF THE TRUSS SYSTEM DESIGN (CLIP DESIGN TO RESIST UPLIFT FORCES). CLIP SPECIFICATION TO BE INCLUDED IN SUBMITTAL TO OWNER AND ARCHITECT.

2 / A6 PUMP HOUSE ROOF PLAN
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



3 / A6 VALVE MANIFOLD PIT PLAN
SCALE: 3/4" = 1'-0"
0 1' 2' 3'

NOTE:
LIQUID WATERSEAL APPLIED ON ALL BLOCK SURFACES IN PIT AND TOP OF FOOTING.



4 / A6 VALVE MANIFOLD PIT SECTION
SCALE: 3/4" = 1'-0"
0 1' 2' 3'

CLA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 . www.chacompanies.com

STATE OF GEORGIA
KARL D. LEABO
CERTIFICATE NO. 019981
REGISTERED ARCHITECT

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

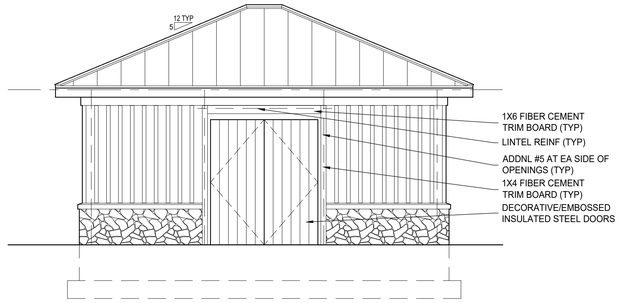
DRAWN BY	RSS
CHECKED BY	KRA
DATE:	11/01/2021
SCALE:	VARIES
JOB No.	20-LD-025 / 061694.00

SHEET NUMBER
A-6

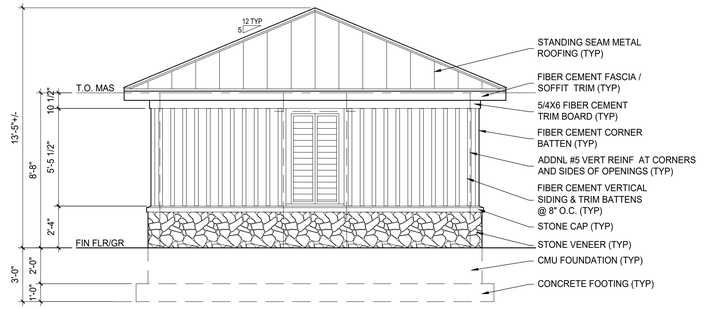
100% CONSTRUCTION DOCUMENTS

BASIS OF DESIGN:

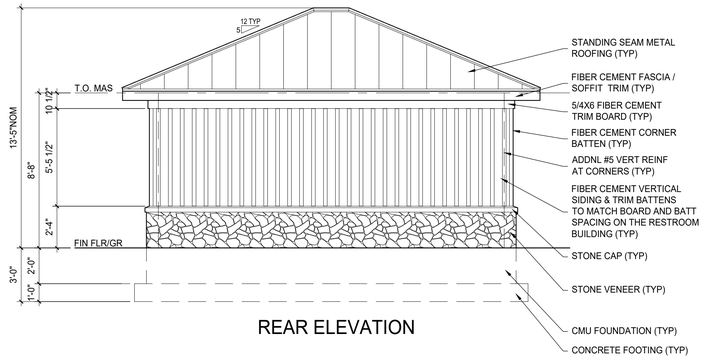
1. Standing Seam Roof - Englert Series A1000, Galvalume standing seam roof, 22 gauge
2. James Hardie vertical siding, trim boards, and batten boards; smooth face primed and ready to be painted
3. Stone Veneer Base - Sandstone Mosaic Whispering Pine Fieldstone Full 4" Stone Veneer as Manufactured by Buechel Or Equal.
4. Stone Base Cap - Match the base stone veneer, form sloping cap, trim as required for 1" overhang
5. Paint colors: Sherwin Williams; All color selections to be selected by Architect approved by Owner including but not limited to;
   - Door & Door Frame
   - Board & Batten Wall Siding
   - Corners, Vented Soffits, Fascia, Horizontal & Vertical Trim
   - Aluminum Louvers



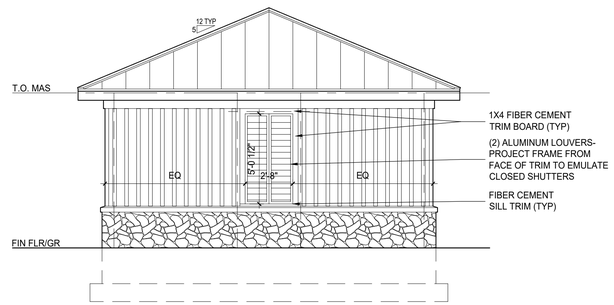
FRONT ELEVATION



SIDE ELEVATION



REAR ELEVATION



SIDE ELEVATION

2 A7 BUILDING ELEVATIONS

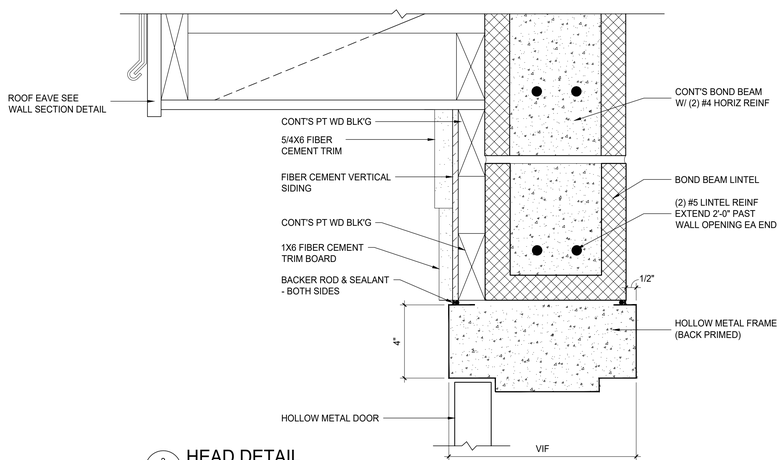
SCALE: 3" = 1'-0"

0 3" 6" 9"

1 A7 WALL SECTION

SCALE: 3/4" = 1'-0"

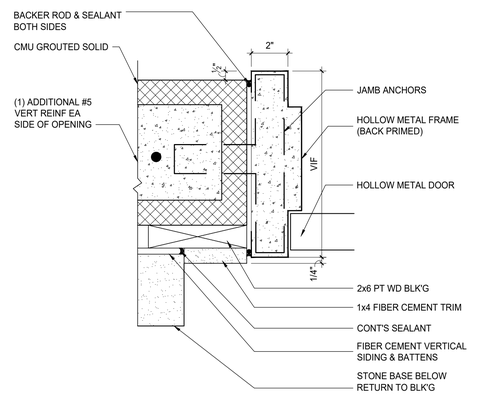
0 1" 2" 3"



3 A7 HEAD DETAIL

SCALE: 3" = 1'-0"

0 3" 6" 9"



4 A7 JAMB DETAIL

SCALE: 3" = 1'-0"

0 3" 6" 9"

100% CONSTRUCTION DOCUMENTS

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 . www.chacompanies.com

STATE OF GEORGIA
KARL D. LEABO
CERTIFICATE NO. 019891
REGISTERED ARCHITECT

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: KRA
CHECKED BY: KRA
DATE: 11/01/2021
SCALE: VARIES
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
A-7

ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT
AF	AMPERE FRAME
AFF/G	ABOVE FINISHED FLOOR/GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AT	AMPERE TRIP
AUX	AUXILIARY
A/V	AUDIBLE/VISUAL
AWG	AMERICAN WIRE GAUGE
BB	BACKBOARD
BCW	BARE COPPER WIRE
BATT	BATTERY
BTM	BOTTOM
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CAB	CABINET
CATV	COMMUNITY ACCESS TELEVISION (CABLE TELEVISION)
CB	CIRCUIT BREAKER
CIR	CIRCUIT
CKT	CIRCUIT
℄	CENTER LINE
CO	COMPANY
COMM	COMMUNICATIONS
CONN	CONNECTION, CONNECT
CUH	CABINET UNIT HEATER
CT	CURRENT TRANSFORMER
CU	COPPER
CWA	CONSTANT WATTAGE AUTOTRANSFORMER
△	DELTA CONNECTION
D	DEEP
DB	DECIBEL
DET	DETECTOR
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DIV	DIVISION
DN	DOWN
DWG	DRAWING
EA	EACH
EBH	ELECTRIC BASEBOARD HEATER
EF	EXHAUST FAN
EL	ELEVATION
ELEC	ELECTRIC(AL)
EMER	EMERGENCY
ENCL	ENCLOSURE
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXT	EXTERIOR
F	FUSE(D)
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLES
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FT	FOOT (FEET)
FUT	FUTURE
G, GND	GROUND
GALV	GALVANIZE(D)
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HD	HEAVY DUTY
HGT	HEIGHT
HID	HIGH INTENSITY DISCHARGE
HO	HIGH OUTPUT
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HTR	HEATER
HV	HIGH VOLTAGE
HW	HOT WATER
ID	IDENTIFY, IDENTIFICATION
INCAND	INCANDESCENT
J-BOX	JUNCTION BOX
J.C.	JANITOR CLOSET
JCT	JUNCTION
KCM/Kcmil	THOUSAND CIRCULAR MILS
KVA	KILO VOLT AMPERE
KW	KILOWATT
LGT	LIGHTING
LT(S)	LIGHT(S)
LED	LIGHT EMITTING DIODE
L	LOUVER
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MC	METAL CLAD CABLE
MFR	MANUFACTURER
MH	METAL HALIDE
MECH	MECHANICAL
MIN	MINIMUM
ML	MOTORIZED LOUVER
MLO	MAIN LUGS ONLY
MT	MOUNT
MTD	MOUNTED
MTR	MOTOR
N	NORTH
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NL	NIGHT LIGHT
No/#	NUMBER
OC	OVER COUNTER
OL	OVERLOAD
P	POLE(S)
PA	PUBLIC ADDRESS
PNL	PANEL
PR	PAIR
PRI	PRIMARY
PWR	POWER
ø	PHASE
PT	PRESSURE TREATED
RECEPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
SEC	SECONDARY
SH	SHIELDED
SPKR	SPEAKER
SW	SWITCH
TEMP	TEMPORARY/TEMPERATURE
T-STAT	THERMOSTAT
TB	TERMINAL BOARD
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLT, VOLTS
VA	VOLT-AMPERES
W	WATT, WIRE
W/	WITH
WP	WEATHERPROOF
XFMR/T	TRANSFORMER
Y	WYE CONNECTION

LIGHTING

- $ — SINGLE POLE LIGHT SWITCH, SUBSCRIPT DENOTES: -O=OCCUPANCY WALL SWITCH
- 1X4 LIGHT FIXTURE
- SITE LIGHT

RACEWAYS

- CONDUIT CONCEALED OR EXPOSED AS SPECIFIED
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- PP-1 1/3/5 — HOMERUN BACK TO PANEL (PANEL AND CIRCUITS INDICATED)
- CIRCUIT CONTINUED OR CONNECTED TO EQUIPMENT AS INDICATED
- UNDERGROUND CONDUIT
- GROUND CONDUCTOR
- GROUNDING CONDUCTOR TERMINATION POINT AT SERVICE EQUIPMENT
- INDICATES EXISTING DEVICES OR EQUIPMENT

DEVICES AND APPURTENANCES

- DUPLEX RECEPTACLE
- GROUND ROD 5/8" X 10'-0" COPPER CLAD

ONE LINE DIAGRAMS

- POWER TRANSFORMER
- AMPS FRAME → 400AF; AMPS TRIP → 400AT; NR. of POLES → 3P; GFP — MOLDED CASE CIRCUIT BREAKER W/GROUND FAULT PROTECTION
- SAFETY DISCONNECT SWITCH – UNFUSED
- CONNECTED CONDUCTORS
- CROSSING OF CONDUCTORS NOT CONNECTED
- NORMALLY OPEN CONTACT/RELAY
- CURRENT TRANSFORMER
- GROUNDING CONNECTION
- INDICATES EQUIPMENT ENCLOSURE

POWER DISTRIBUTION EQUIPMENT

- SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD 208/120V, 3ø, 4W, UON
- T — TRANSFORMER
- HH — HANDHOLE

GENERAL

- (#) — NUMBER IN CIRCLE, WITH OR WITHOUT ARROW OR LEADER, REFER TO MATCHING NUMBERED CODED NOTE
- X / XXX — DETAIL CALLOUT

GENERAL NOTES

1. REFER TO CIVIL, STRUCTURAL, ARCHITECTURAL, MECHANICAL, PLUMBING AND AQUATICS DRAWINGS FOR SYMBOLS ASSOCIATED WITH WORK, EQUIPMENT, ETC. BY OTHER(S).
2. ALL WORK SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE BY THE ELECTRICAL CONTRACT UNLESS OTHERWISE INDICATED.
3. COORDINATE WORK WITH ALL TRADES.
4. CONDUIT RUNS SHOWN ARE DIAGRAMMATIC UON. EXACT LOCATION OF ALL CONDUIT RUNS SHALL BE DETERMINED IN THE FIELD. COORDINATE INSTALLATIONS AND AVOID CONFLICT WITH PIPING, DUCTWORK, ACCESS DOORS AND WORK BY OTHER TRADES.
5. GENERAL NOTES APPLY TO ALL ELECTRICAL CONTRACT DRAWINGS.

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 . www.chacompanies.com

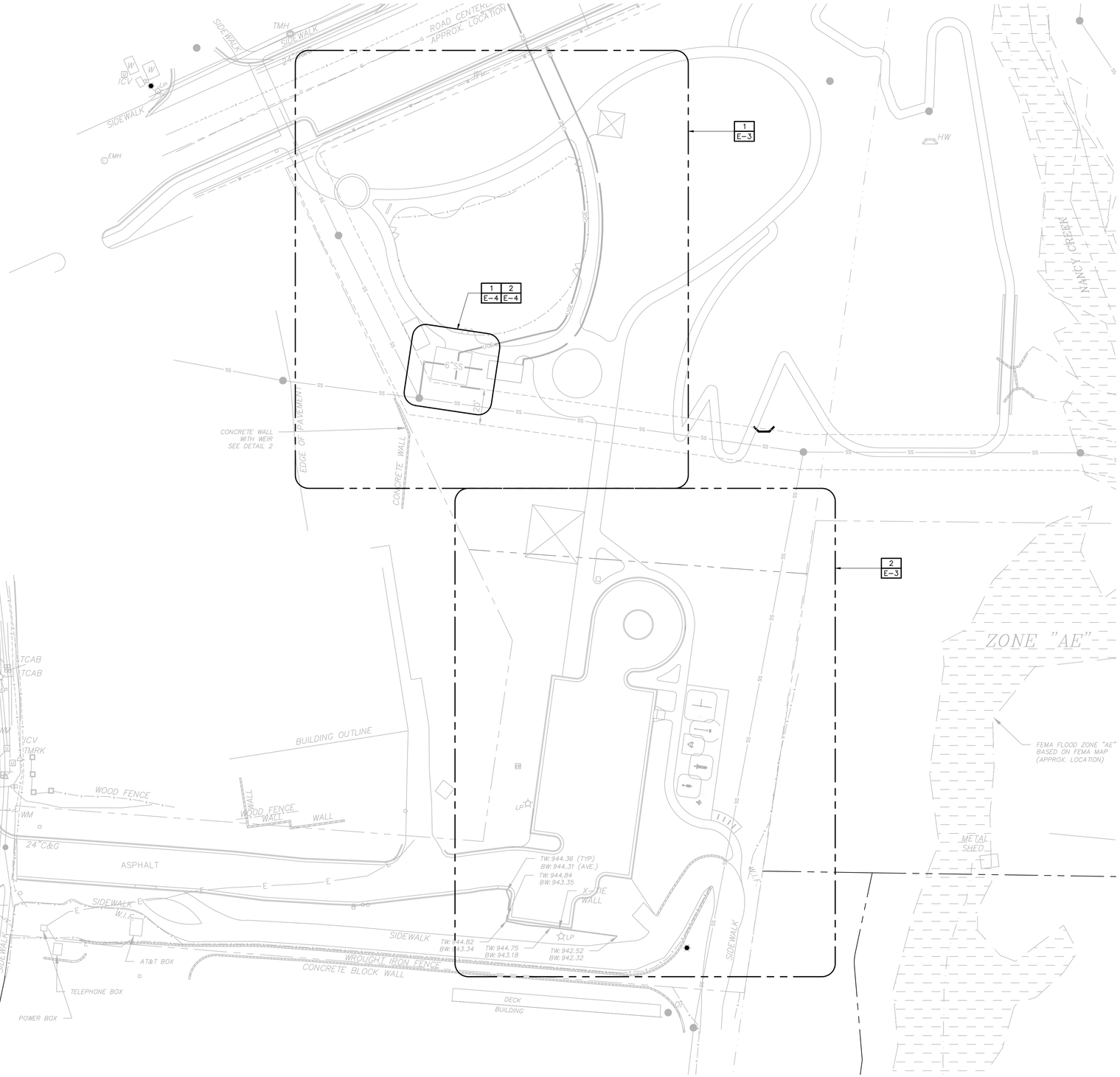
GEORGIA REGISTERED No. 030781 PROFESSIONAL ENGINEER JAMES B. FULLER
11/1/2021

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: KML
CHECKED BY: JJD
DATE: 11/01/2021
SCALE: AS SHOWN
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
E-1

100% CONSTRUCTION DOCUMENTS



1 OVERALL ELECTRICAL SITE PLAN
– 1" = 30'-0"

GRAPHIC SCALE (FEET)
1"=30' 0' 30' 60' 90' 120' 150'

100% CONSTRUCTION DOCUMENTS

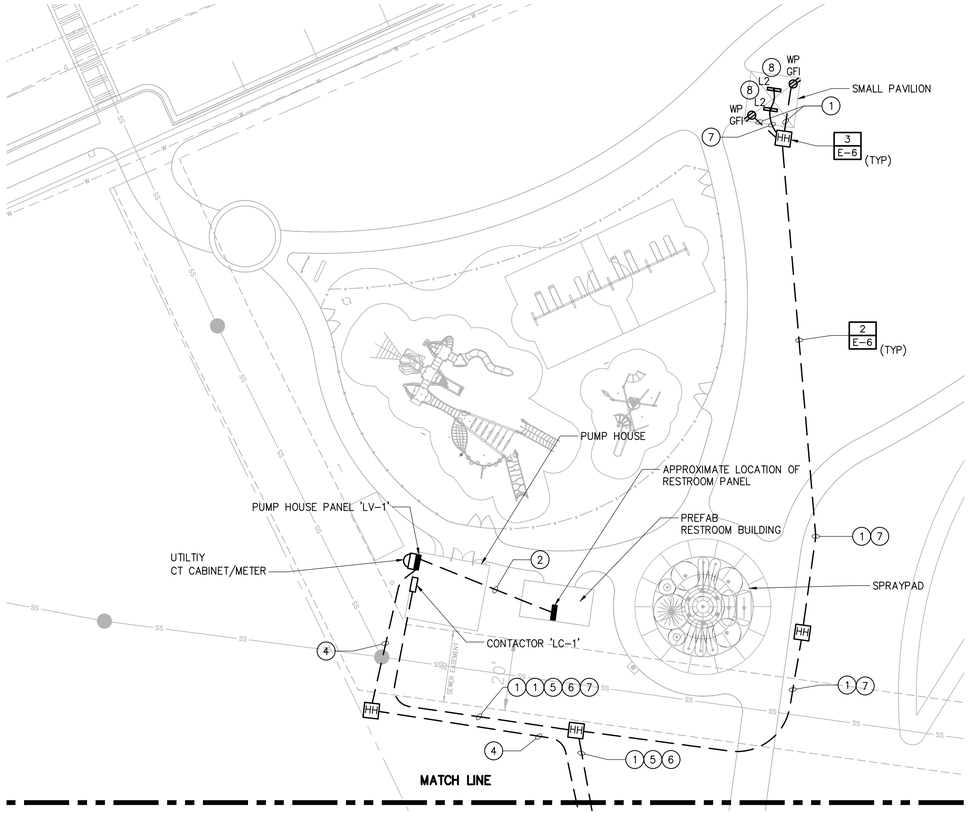
CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 . www.chacompanies.com

GEORGIA REGISTERED
No. 030781
PROFESSIONAL
ENGINEER
JAMES B. FULLER
11/1/2021

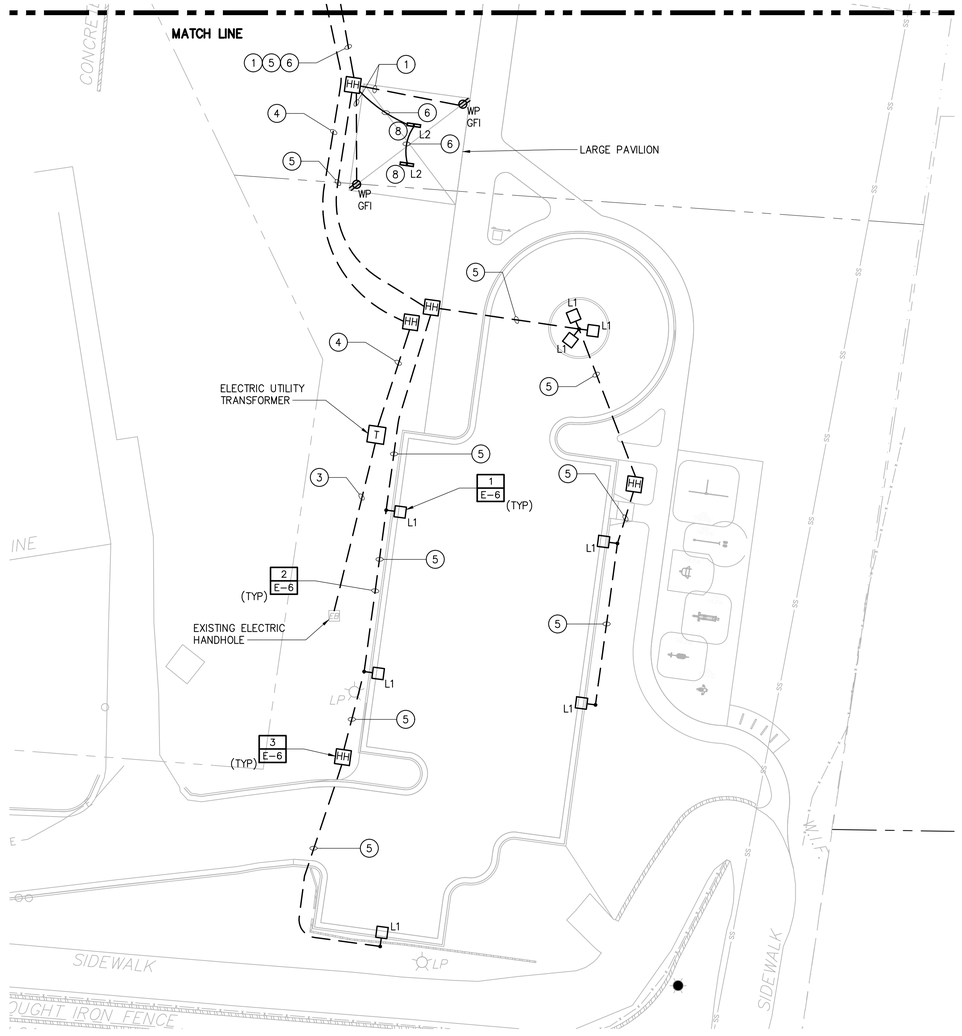
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: KML
CHECKED BY: JJD
DATE: 11/01/2021
SCALE: AS SHOWN
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
E-2



1 ELECTRICAL PARTIAL SITE PLAN
– 1" = 30'-0"



2 ELECTRICAL PARTIAL SITE PLAN
– 1" = 30'-0"

CODED NOTES

1. PROVIDE (2)#10, (1)#10G FROM PANEL 'LV-1' TO PAVILION RECEPTACLES.
2. PROVIDE (3)#1, (1)#8G FROM PANEL 'LV-1' TO RESTROOM PANEL.
3. PROVIDE EMPTY 4" CONDUIT FOR UTILITY PROVIDED TRANSFORMER PRIMARY CABLES FROM UTILITY TRANSFORMER TO UTILITY TIE-IN POINT.
4. PROVIDE EMPTY 4" CONDUIT FROM UTILITY TRANSFORMER TO CT CABINET/METER FOR UTILITY PROVIDED CONDUCTORS.
5. PROVIDE 1"C, (2)#10, (1)#10G FROM LIGHTING CONTACTOR PANEL LC-1 TO PARKING LOT L1 LIGHT FIXTURES.
6. PROVIDE 1"C, (2)#10, (1)#10G FROM LIGHTING CONTACTOR PANEL LC-1 TO LARGE PAVILION L2 LIGHT FIXTURES.
7. PROVIDE 1"C, (2)#10, (1)#10G FROM LIGHTING CONTACTOR PANEL LC-1 TO SMALL PAVILION L2 LIGHT FIXTURES.
8. MOUNT LIGHT FIXTURE TO CEILING BEAM.

GRAPHIC SCALE (FEET)
1"=30' 0' 30' 60' 90' 120' 150'

100% CONSTRUCTION DOCUMENTS

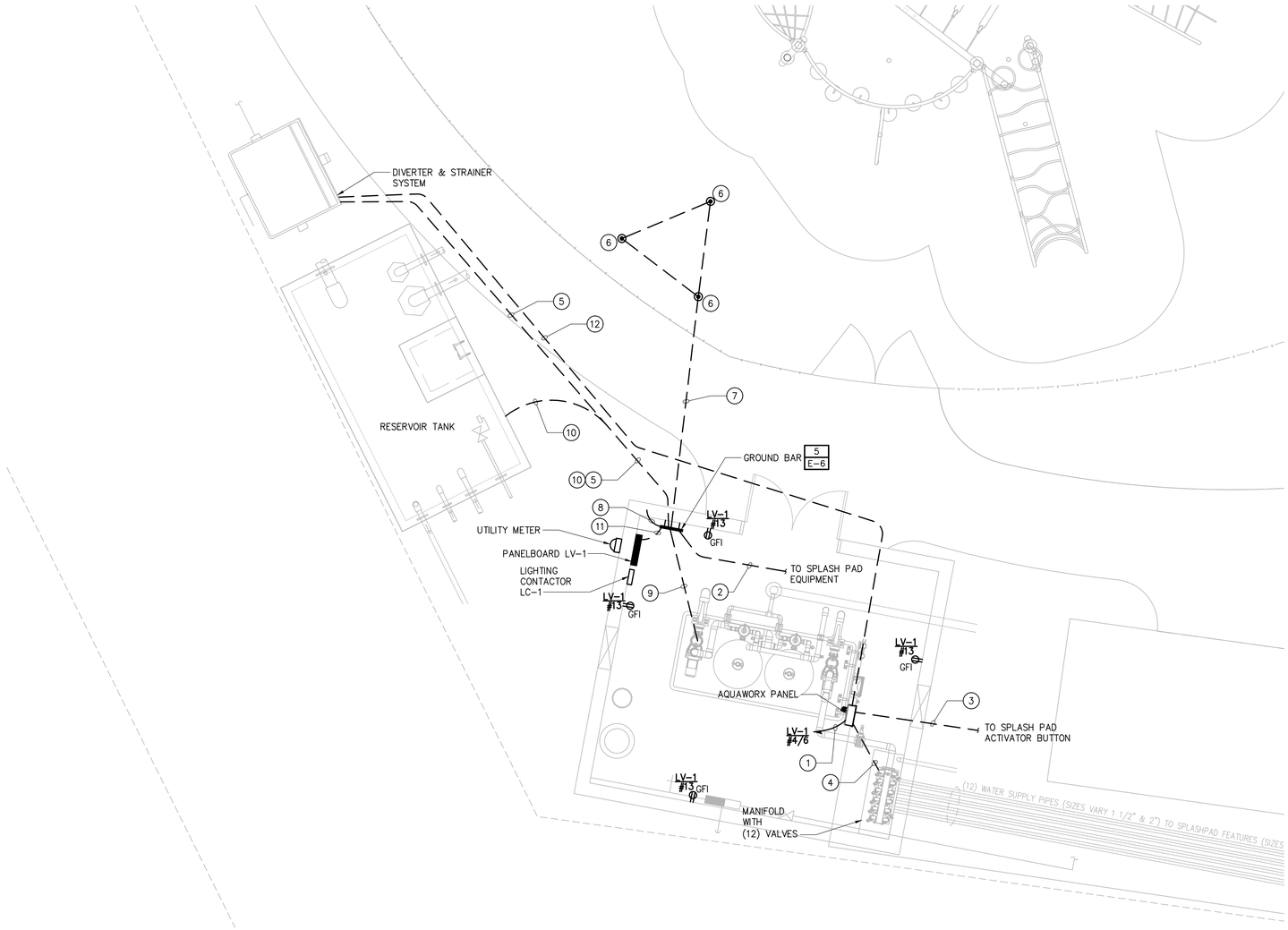
CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 . www.chacompanies.com

GEORGIA REGISTERED No. 030781 PROFESSIONAL ENGINEER JAMES B. FULLER
11/1/2021

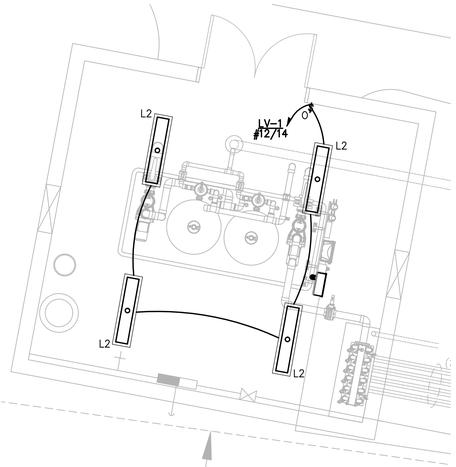
Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOODY RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: KML
CHECKED BY: JJD
DATE: 11/01/2021
SCALE: AS SHOWN
JOB No.: 20-LD-025 / 061694.00
SHEET NUMBER
E-3



1 POWER PLAN – PUMP HOUSE
– 1/4" = 1'-0"



2 LIGHTING PLAN – PUMP HOUSE
– 1/4" = 1'-0"

CODED NOTES

1. PROVIDE CONDUIT AND WIRING. SEE ONE-LINE DIAGRAM ON SHEET E-5 FOR QUANTITIES AND SIZES.
2. PROVIDE (1) SOLID #8 BARE COPPER CONDUCTOR TO EACH SPLASHPAD FEATURE, DRAIN AND TO ACTIVATOR BUTTON. SEE DRAWING SP-2 FOR EXACT LOCATIONS AND QUANTITIES.
3. PROVIDE CONTROL WIRING FROM WATERPLAY CONTROL PANEL TO ACTIVATOR BUTTON. SEE ONE-LINE DIAGRAM ON SHEET E-5 FOR QUANTITIES AND SIZES. SEE DRAWING SP-2 FOR EXACT LOCATION OF ACTIVATOR BUTTON.
4. PROVIDE CONDUIT AND WIRING FROM WATERPLAY CONTROL PANEL TO EACH OF THE MANIFOLD VALVES. SEE ONE-LINE DIAGRAM ON SHEET E-5 FOR QUANTITIES AND SIZES.
5. PROVIDE (1) SOLID #8 BARE COPPER CONDUCTOR. BOND TO DIVERTER & STRAINER SYSTEM.
6. PROVIDE 10', COPPER CLAD, 5/8" MIN, DRIVEN GROUND ROD.
7. PROVIDE (1) SOLID #4 BARE COPPER CONDUCTOR TO GROUND BAR.
8. PROVIDE (1) SOLID #4 BARE COPPER CONDUCTOR. BOND TO BUILDING REBAR.
9. PROVIDE (1) SOLID #8 BARE COPPER CONDUCTOR. BOND TO PUMP.
10. PROVIDE (1) SOLID #8 BARE COPPER CONDUCTOR. BOND TO RESERVOIR TANK.
11. PROVIDE (1) SOLID #4 BARE COPPER CONDUCTOR. BOND TO PANEL LV-1.
12. PROVIDE CONDUIT AND WIRING FROM WATERPLAY CONTROL PANEL TO DIVERTER & STRAINER SYSTEM. SEE ONE-LINE DIAGRAM ON SHEET E-5 FOR QUANTITIES AND SIZES.

GRAPHIC SCALE (FEET)
1/4"=1' 0' 4' 8' 12' 16' 20'

100% CONSTRUCTION DOCUMENTS

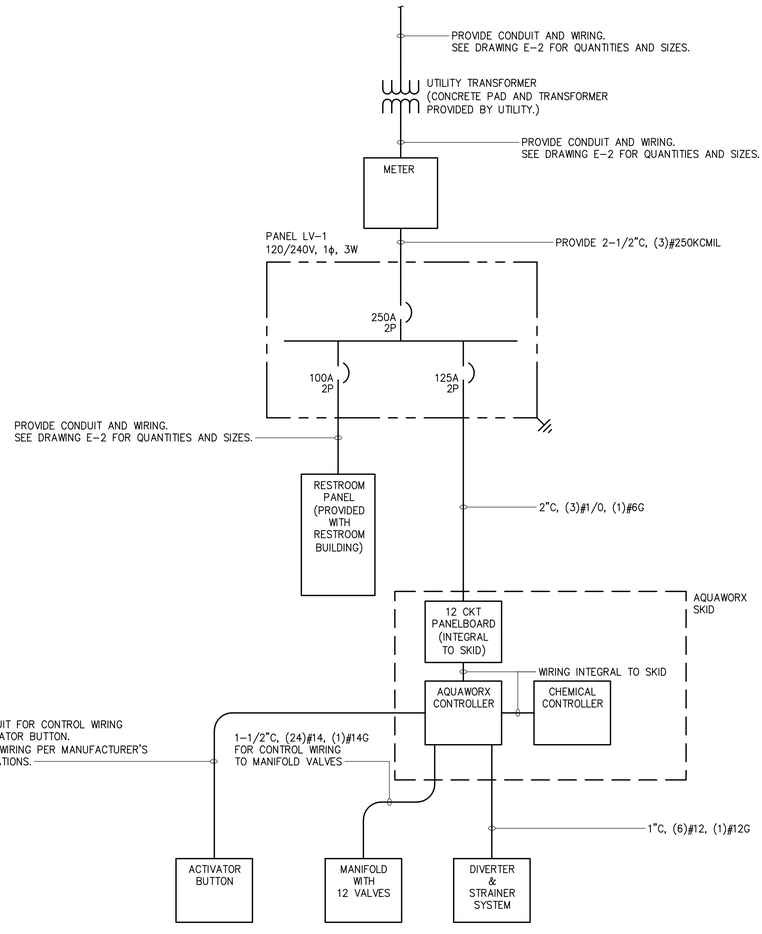
CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 . www.chacompanies.com

GEORGIA REGISTERED No. 030781 PROFESSIONAL ENGINEER JAMES B. FULLER
11/1/2021

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: KML
CHECKED BY: JJD
DATE: 11/01/2021
SCALE: AS SHOWN
JOB No.: 20-LD-025 / 061694.00
SHEET NUMBER
E-4



1 ONE-LINE DIAGRAM
– NOT TO SCALE

LOCATION: PUMP HOUSE
MOUNTING: SURFACE
SOURCE: UTILITY TRANSFORMER

PANEL ID: LV-1

VOLTS, PHASE, WIRE: 120/240V, 1ϕ, 3W
MAINS: 250A MCB
SHORT CIRCUIT RATING: 22KAIC

CKT	LOAD DESCRIPTION	CB AMPS/ POLE	CONN LOAD KVA	CONN LOAD KVA	CONN LOAD KVA	CONN LOAD KVA	CB AMPS/ POLE	LOAD DESCRIPTION	CKT
1	SMALL PAVILION RECEPTS	20/1	0.32		0.32		20/1	LARGE PAVILION RECEPTS	2
3	PARKING LOT LIGHT FIXTURES	20/2		0.22		8.86	125/2	AQUAWORX PANELBOARD	4
5			0.22		8.86				6
7	SMALL PAVILION LIGHT FIXTURES	20/2		0.04		0.04	20/2	LARGE PAVILION LIGHT FIXTURES	8
9			0.04		0.04				10
11	LIGHTING CONTROLS	20/1		0.10		0.08	20/2	LIGHTING PUMP HOUSE	12
13	PUMP HOUSE RECEPTS	20/1	0.72		0.08				14
15	PROVISIONED SPACE							PROVISIONED SPACE	16
17	PROVISIONED SPACE							PROVISIONED SPACE	18
19	PROVISIONED SPACE							PROVISIONED SPACE	20
21	PROVISIONED SPACE							PROVISIONED SPACE	22
23	PROVISIONED SPACE							PROVISIONED SPACE	24
25	PROVISIONED SPACE							PROVISIONED SPACE	26
27	PROVISIONED SPACE							PROVISIONED SPACE	28
29	PROVISIONED SPACE							PROVISIONED SPACE	30
31	PROVISIONED SPACE							PROVISIONED SPACE	32
33	PROVISIONED SPACE						20/1	SPARE	34
35	PROVISIONED SPACE						20/1	SPARE	36
37	SPARE	20/1					20/1	SPARE	38
39	SPARE	20/1				9.60	100/2	RESTROOM PANELBOARD	40
41	SPARE	20/1			9.60				42
			1.30	0.36	18.90	18.58			

NOTES:
1. SERVICE ENTRANCE RATED PANELBOARD.

TOTAL kVA
39.14

TAG	DESCRIPTION	MOUNTING	LAMP(S)	VOLTS	MANUFACTURER & CATALOG NUMBER	COMMENTS
L1	POLE MOUNTED, LED LIGHT FIXTURE	POLE MOUNTED, 20'	LED, 54W	240V	LITHONIA LIGHTING CATALOG #: DSX1-LED-P1-40K-T4M-MVOLT-SPA	PROVIDE 20' SQUARE POLE.
L2	SURFACE MOUNTED, STRIP LED FIXTURE, SEALED AND GASKETED, 6000 LUMEN OUTPUT, 4000K COLOR TEMPERATURE, 80CRI	SURFACE MOUNTED	LED, 37.8W	240V	LITHONIA LIGHTING CATALOG #: FEM-L48-6000LM-IMAFL-MD-MVOLT-40K-80CRI	

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999 . www.chacompanies.com

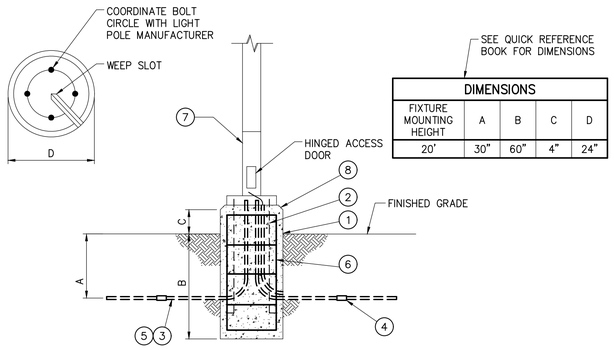
GEORGIA REGISTERED
No. 030781
PROFESSIONAL
ENGINEER
JAMES B. FULLER
11/1/2021

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: KML
CHECKED BY: JJD
DATE: 11/01/2021
SCALE: AS SHOWN
JOB No. 20-LD-025 / 061694.00
SHEET NUMBER
E-5

100% CONSTRUCTION DOCUMENTS



SEE QUICK REFERENCE BOOK FOR DIMENSIONS

DIMENSIONS				
FIXTURE MOUNTING HEIGHT	A	B	C	D
20'	30"	60"	4"	24"

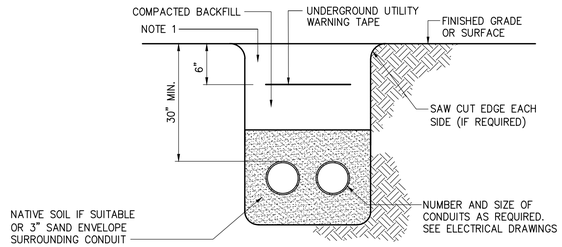
CODED NOTES

1. PRE-CAST REINFORCED CONCRETE BASE.
2. ANCHOR BOLTS. SIZE AS RECOMMENDED BY MANUFACTURER.
3. 10'-0" RIGID STEEL CONDUIT, ENTERING AND LEAVING BASE.
4. ADAPTER AS REQUIRED FOR CONDUIT SPECIFIED.
5. RIGID STEEL CONDUIT AND ELBOWS CAST IN CONCRETE.
6. #3 REBAR SPACED 12" ON CENTER HORIZONTALLY AND (4)#8 REBAR VERTICALLY.
7. POLEBASE COVER SIMILAR TO WHATLEY#BC-105 COLOR TO MATCH POLE.
8. 1/2" x 45° CHAMFER

GENERAL NOTES

1. PROVIDE FUSE HOLDERS IN EACH POLE BASE. FUSE HOLDERS SHALL BE IN-LINE TYPE, ONE-POLE AS MANUFACTURED BY LITTLEFUSE. FUSES SHALL BE KTK-R TYPE.

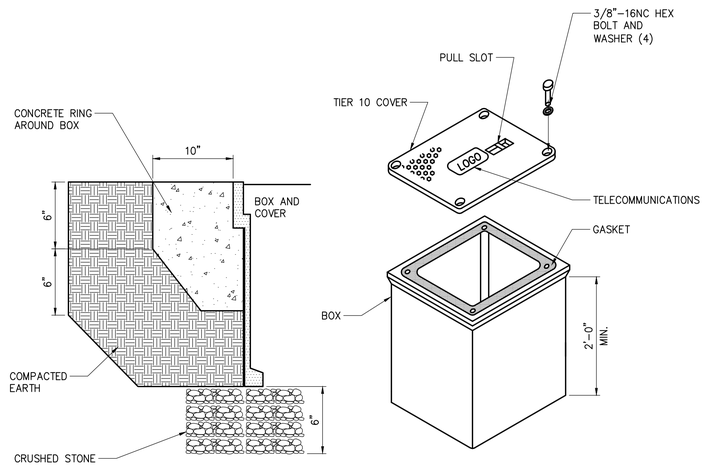
1 LIGHT POLE BASE
– NOT TO SCALE



NOTE:

1. REPLACE EXISTING SURFACE CONDITIONS IN KIND TO INCLUDE, BUT NOT LIMITED TO: CONCRETE, CRUSHED STONE, SELECT GRAVEL, ASPHALT, TOPSOIL AND GRASS

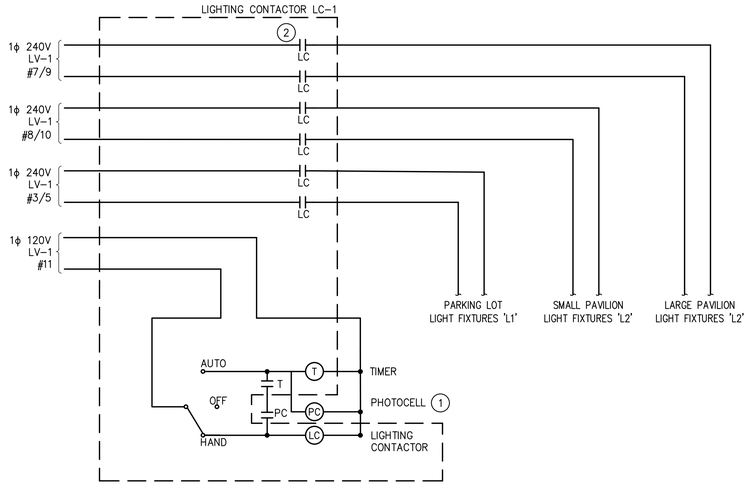
2 UNDERGROUND CONDUIT
– NOT TO SCALE



NOTES

1. SIZE HANDHOLE AT EACH LOCATION PER NEC. MINIMUM SIZE SHALL BE 18" X 18" X 24".
2. PROVIDE ALL CONDUITS WITH A PULL ROPE.
3. REPLACE EXISTING SURFACE CONDITIONS IN KIND TO INCLUDE, BUT NOT LIMITED TO: CONCRETE, CRUSHED STONE, SELECT GRAVEL, ASPHALT CONCRETE, TOPSOIL AND GRASS.

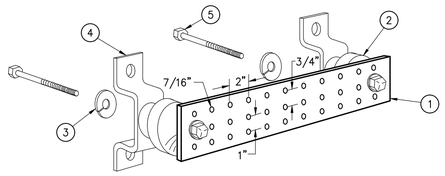
3 HANDHOLE – DETAIL
– NOT TO SCALE



CODED NOTES

1. MOUNT PHOTOCELL ON NORTH SIDE OF PUMP HOUSE BUILDING. MOUNT AWAY FROM NEARBY LIGHT SOURCES.
2. PROVIDE 6P LIGHTING CONTACTOR.

4 LIGHTING CONTROLS – DETAIL
– NOT TO SCALE



CODED NOTES

1. COPPER GROUND BAR, 1/4"X 4"X 20", ERICO #EGBA14420CC. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4
3. 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO.
5. 5/8-11 X 1" H.H.C.S.BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1

5 GROUND BAR
– NOT TO SCALE

CHA
6745 Sugarloaf Parkway, Suite 100
Duluth, GA 30097
770.447.8999. www.chacompanies.com

GEORGIA REGISTERED No. 030781 PROFESSIONAL ENGINEER JAMES B. FULLER
11/1/2021

Project Title
PERIMETER CENTER EAST PARK
CITY OF DUNWOODY, GEORGIA
4800 ASHFORD DUNWOOD RD
DUNWOODY, GA 30338

REVISIONS	BY

DRAWN BY: KML
CHECKED BY: JJD
DATE: 11/01/2021
SCALE: AS SHOWN
JOB No.: 20-LD-025 / 061694.00
SHEET NUMBER

E-6

100% CONSTRUCTION DOCUMENTS