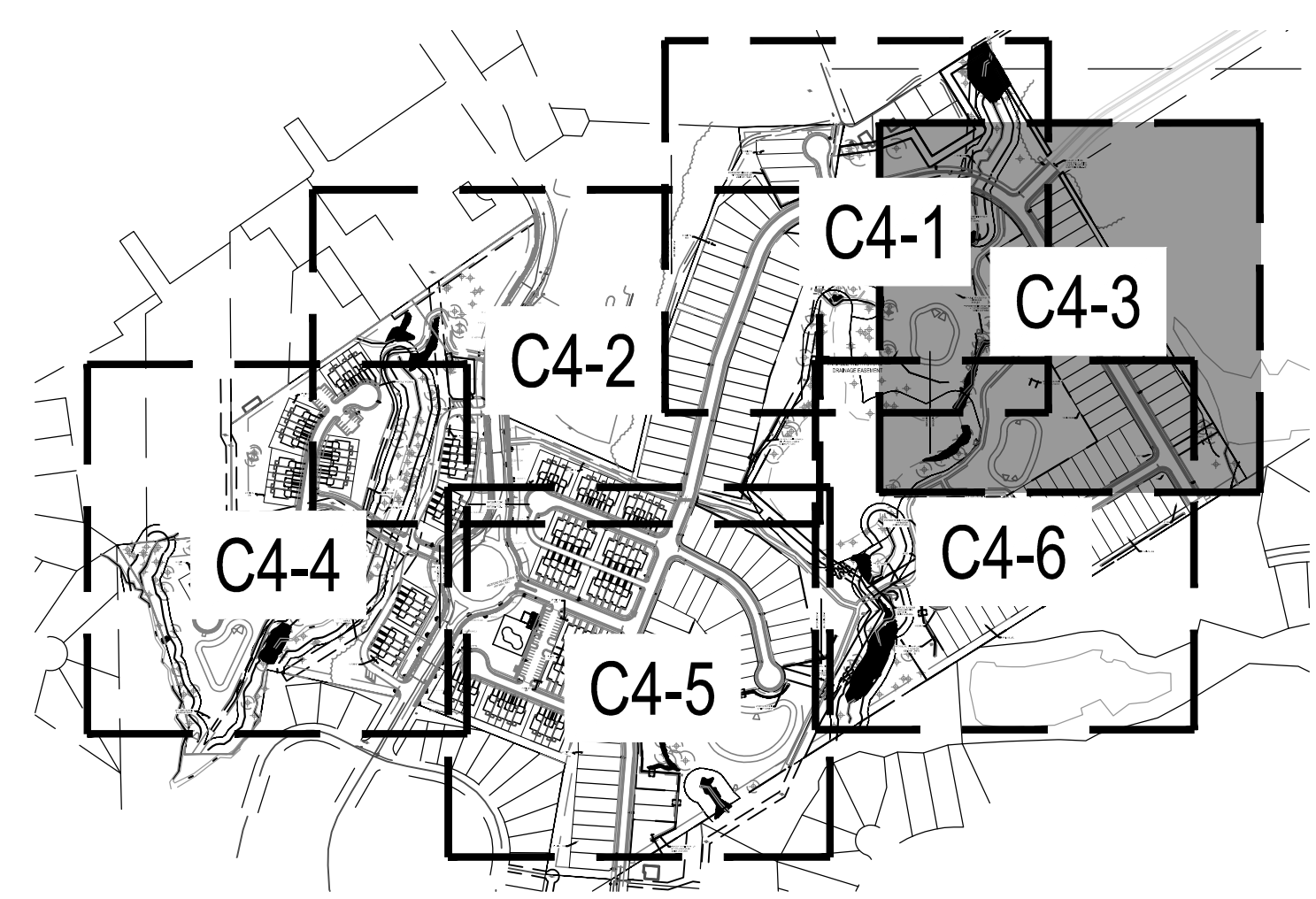
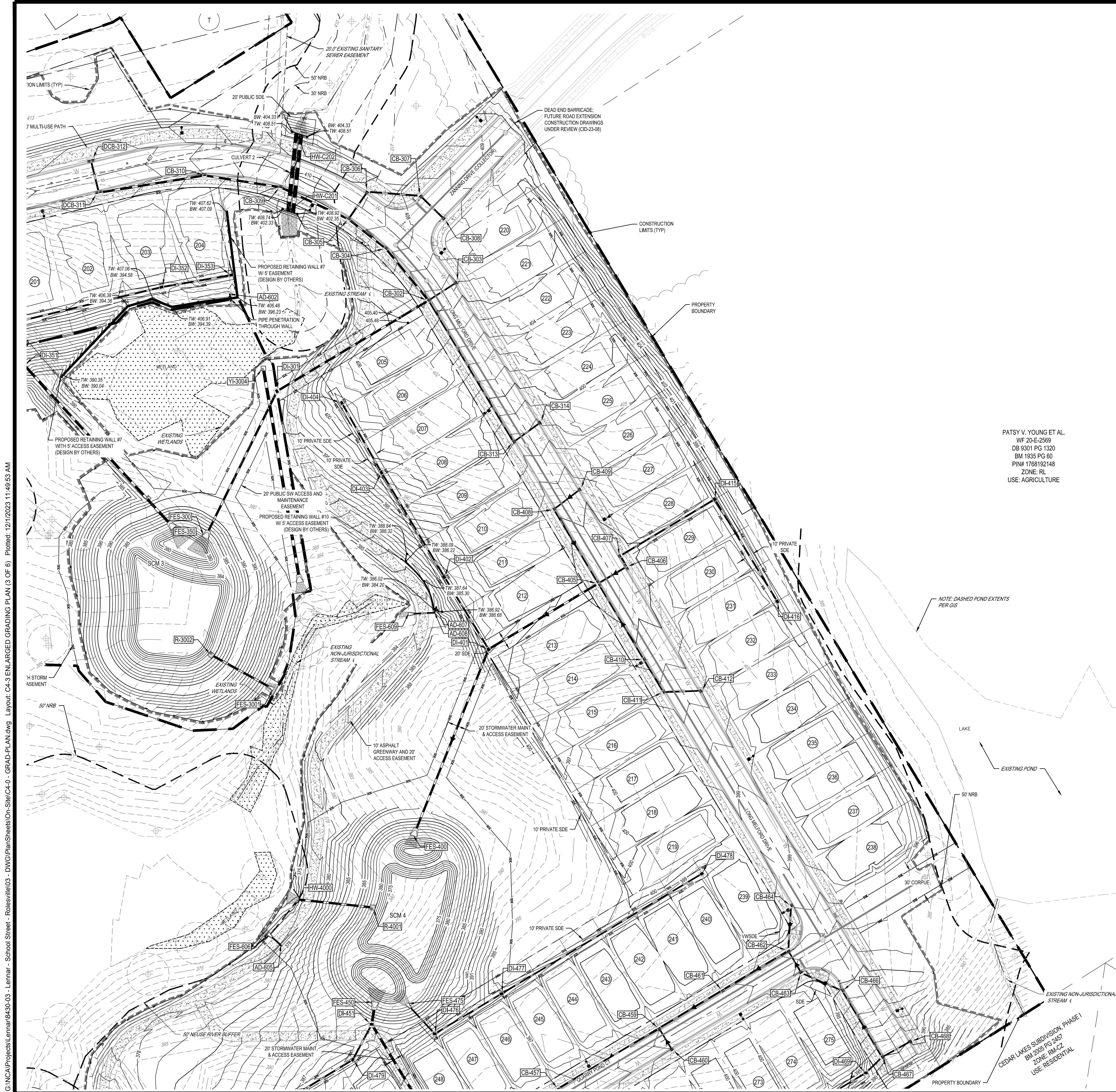


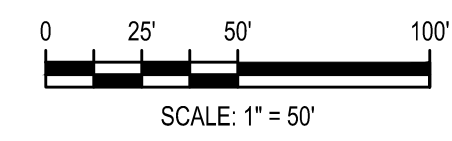
 5440 WADE PARK BLVD, SUITE 102 RALEIGH NC 27607 TEL: 919-876-6600 NC LICENSE #C-4387 ©2023	DESIGNED BY:	DF/CD	11/21/2023	PER TOWN OF ROLESVILLE COMMENT
	DRAWN BY:	DF/JWM	10/09/2023	PER TOWN OF ROLESVILLE COMMENT
	REVIEWED BY:	DF	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
			REV	08/01/2023
LENAR CORPORAION 1100 PERIMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560 PARKER RIDGE 82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571 ENLARGED GRADING PLAN (2 OF 6) 12-01-23  NOT FOR CONSTRUCTION FILE NUMBER: 8430-03 DATE: 11/21/2023 C4-2				

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C4-0 - GRAD-PLAN.dwg Layout: 12/1/2023 11:49:53 AM



PROPOSED GRADING AND DRAINAGE LEGEND	
	PROPOSED BORING
	PROPOSED DETENTION
	PROPOSED CLEARING LIMITS
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED SPOT
	PROPOSED GRADING ARROW
	PROPOSED SWALE
	PROPOSED STORM
	PROPOSED STORM SYMBOL
	PROPOSED BUILDING SPOT

PATSY V. YOUNG ET AL.
WF 20-E-2569
DB 9301 PG 1320
BM 1935 PG 60
PIN# 1768192148
ZONE: RL
USE: AGRICULTURE



	11/21/2023	PER TOWN OF ROLESVILLE COMMENT
	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
	06/01/2023	INITIAL SUBMITTAL
DESIGNED BY: DF/CD		REV
DRAWN BY: DF/JWM		
REVIEWED BY: DF		
LENNAR CORPORAION 1100 PERMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560		
PARKER RIDGE 82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571		
ENLARGED GRADING PLAN (3 OF 6)		
NOT FOR CONSTRUCTION		
FILE NUMBER: 8430-03		
DATE: 11/21/2023		
C4-3		

WALL CREEK, PHASE I
BN 1593 PG 1086
ZONE: R&PD
USE: RESIDENTIAL

STORAGE MAX VIII, LLC
DB 17556 PG 1235
BM 2013 PG 1030
PIN# 1758785571
ZONE: GC-CZ
USE: MINIWHS

STORAGE MAX II, LLC
DB 11710 PG 2072
BM 2005 PG 1354
PIN# 1758787576
ZONE: GC-CZ
USE: MINIWHS

PROPERTY
BOUNDARY

20' STORMWATER MAINT.
& ACCESS EASEMENT

LITTLEPORT DRIVE
(80' PUBLIC R/W)

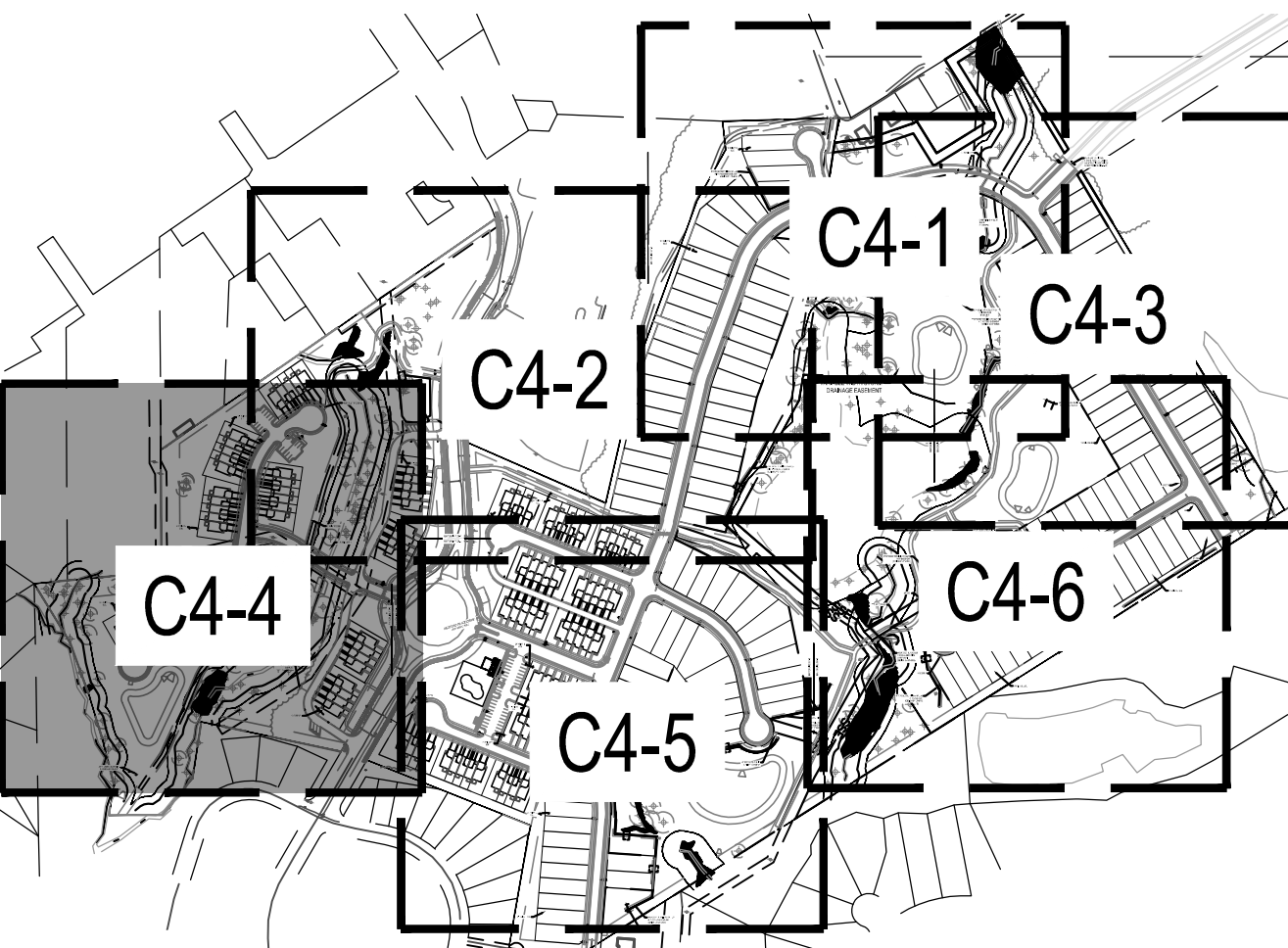
REDFORD PLACE DRIVE
(80' PUBLIC R/W)

PROPERTY BOUNDARY

0 25' 50' 100'
SCALE: 1" = 50'

PROPOSED GRADING AND DRAINAGE LEGEND

- | | |
|--|--------------------------|
| | PROPOSED BORING |
| | PROPOSED DETENTION |
| | PROPOSED CLEARING LIMITS |
| | PROPOSED MAJOR CONTOUR |
| | PROPOSED MINOR CONTOUR |
| | PROPOSED SPOT |
| | PROPOSED GRADING ARROW |
| | PROPOSED SWALE |
| | PROPOSED STORM |
| | PROPOSED STORM SYMBOL |
| | PROPOSED BUILDING SPOT |



Know what's below.
Call before you dig.



NOT FOR
CONSTRUCTION

FILE NUMBER:
8430-03

DATE: 11/21/2023

C4-4

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

LENNAR
CORPORAION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560



5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BCEINC.COM
NC LICENSE #C-4397

DESIGNED BY: DF/CD

DRAWN BY: DF/JWM

REVIEWED BY: DF

REV	DATE	DESCRIPTION
1	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
2	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
3	11/21/2023	PER TOWN OF ROLESVILLE COMMENT

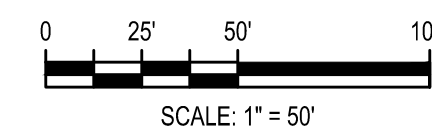
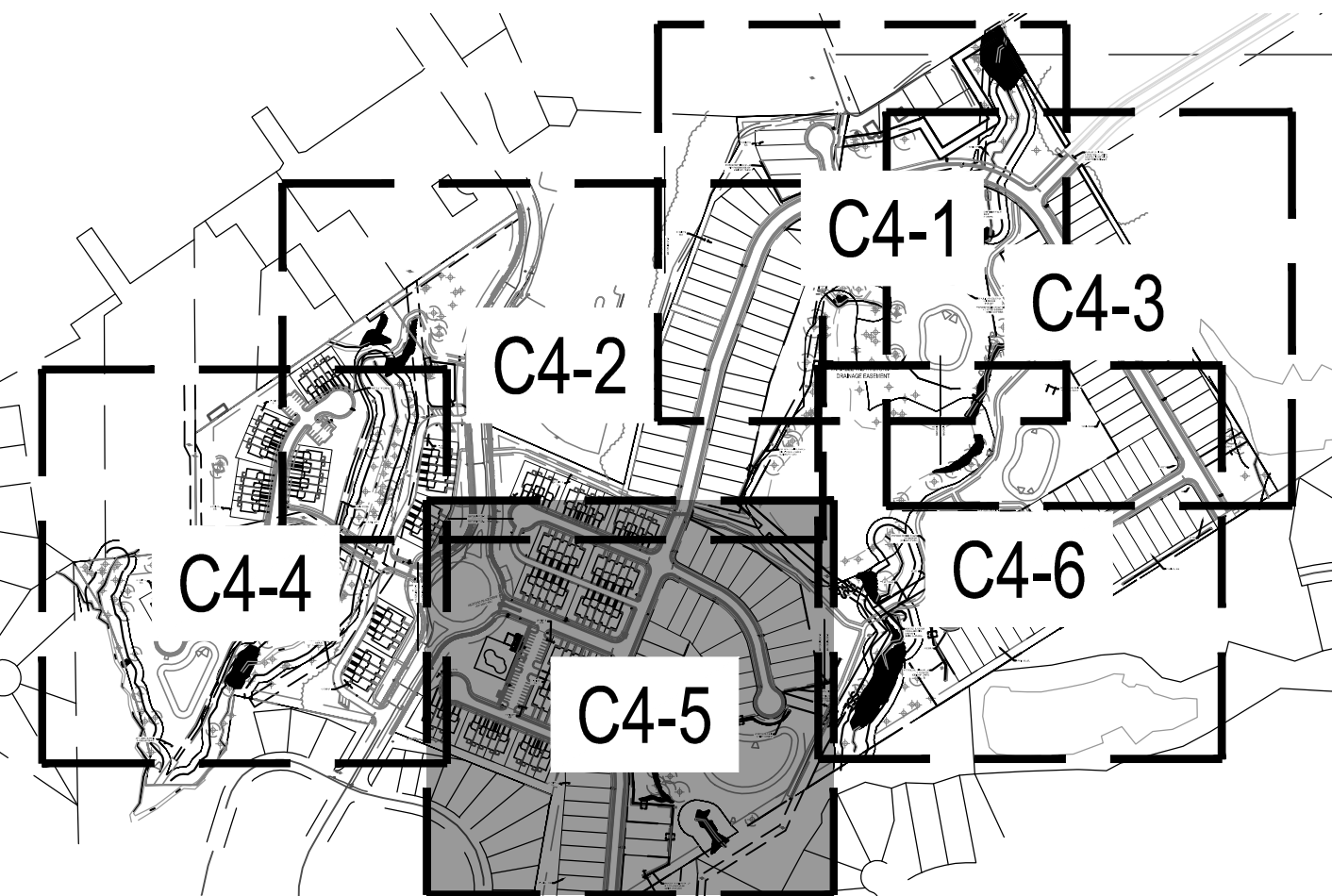
INITIAL SUBMITTAL

G:\NCA\Projects\Lennar\8430-03 - DWG\PlanSheets\On-Site\C4-0 - GRAD-PLAN.dwg Layout: C4-5 ENLARGED GRADING PLAN (5 OF 6) Plotted: 12/1/2023 12:51:55 PM

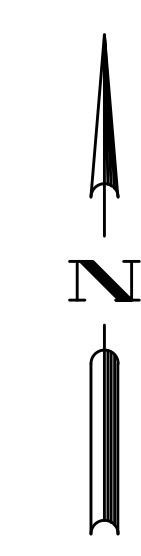


PROPOSED GRADING AND DRAINAGE LEGEND

- | | |
|--|--------------------------|
| | PROPOSED BORING |
| | PROPOSED DETENTION |
| | PROPOSED CLEARING LIMITS |
| | PROPOSED MAJOR CONTOUR |
| | PROPOSED MINOR CONTOUR |
| | PROPOSED SPOT |
| | PROPOSED GRADING ARROW |
| | PROPOSED SWALE |
| | PROPOSED STORM |
| | PROPOSED STORM SYMBOL |
| | PROPOSED BUILDING SPOT |



	11/21/2023	PER TOWN OF ROLESVILLE COMMENT
	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
	06/01/2023	INITIAL SUBMITTAL
DESIGNED BY:	DF/CD	
DRAWN BY:	DF/JWM	
REVIEWED BY:	DF	
LENNAR CORPORAION 1100 PERIMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560		
PARKER RIDGE 82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571		
ENLARGED GRADING PLAN (5 OF 6)		
NOT FOR CONSTRUCTION		
FILE NUMBER: 8430-03		
DATE: 11/21/2023		
C4-5		



B-X

PROPOSED BORING

PROPOSED DETENTION

PROPOSED CLEARING LIMITS

PROPOSED MAJOR CONTOUR

PROPOSED MINOR CONTOUR

PROPOSED SPOT

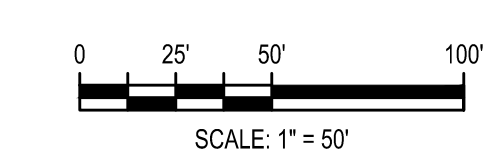
PROPOSED GRADING ADJUSTMENT

PROPOSED SWALE

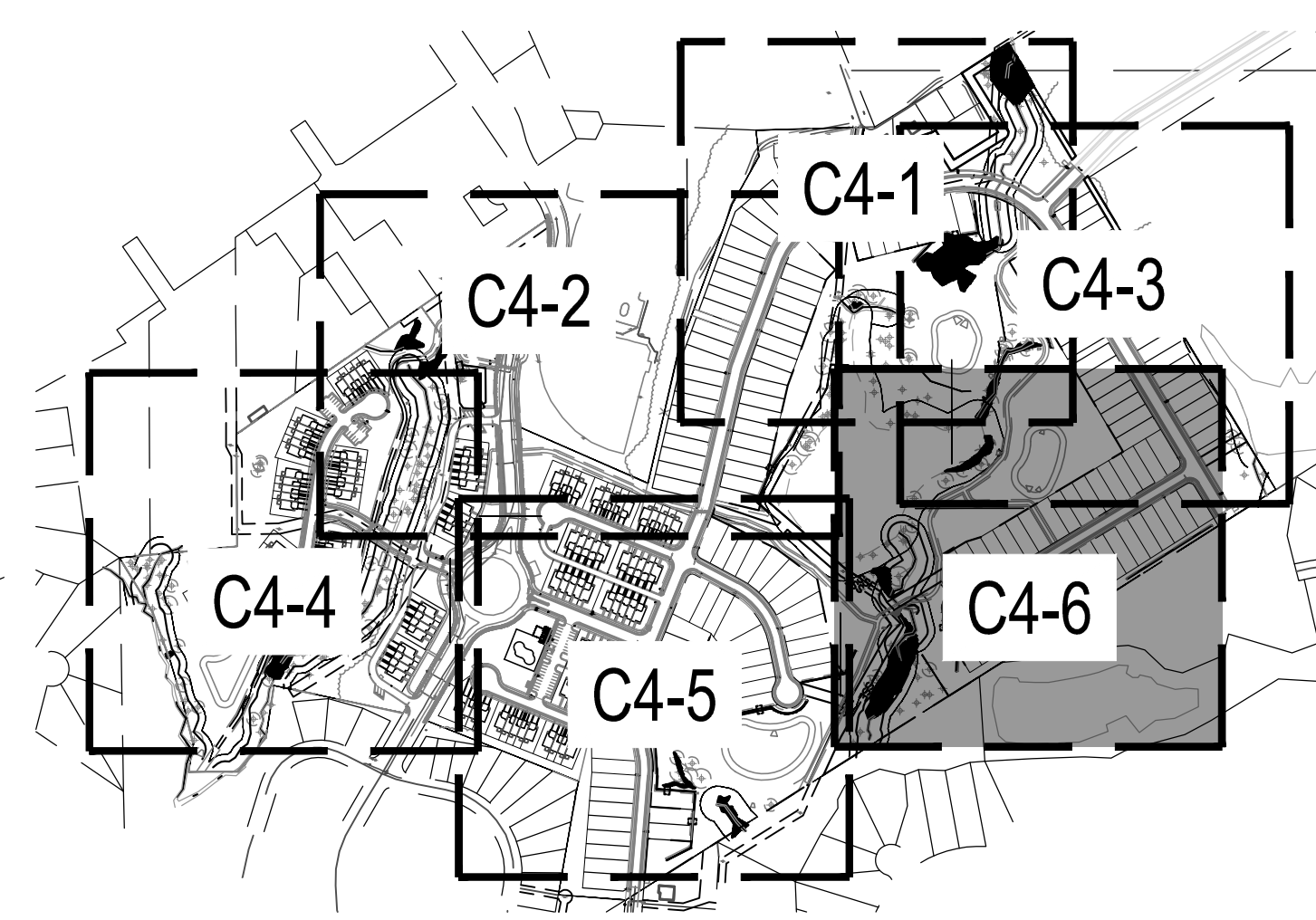
PROPOSED STORM

PROPOSED STORM SYMBOL

PROPOSED BUILDING SPOT



Know what's below.
Call before you dig.

[illegible]

SCM 1

STRUCTURE DATA TABLE						
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
CB-101	393.56	36" 15"	383.05 (NW) 385.73 (NE)	383.05 (SW)	36"	FES-100
CB-103	397.43	30" 18"	384.21 (NE) 384.28 (E)	384.01 (SW)	36"	TCB-102
CB-104	396.91	18"	384.62 (SE)	384.42 (W)	18"	CB-103
CB-105	398.96	18" 30"	382.36 (E) 384.51 (N)	384.51 (SW)	30"	CB-103
CB-106	399.33			392.50 (W)	18"	CB-105
CB-107	400.83	18" 30" 15"	391.93 (E) 384.85 (S) 390.94 (NW)	384.85 (S)	30"	CB-105
CB-108	401.10			392.50 (W)	18"	CB-107
CB-109	402.99	18" 30"	393.61 (NE) 385.38 (E)	385.38 (S)	30"	CB-107
CB-110	403.70	18"	394.01 (N)	393.81 (SW)	18"	CB-109
CB-111	405.79	18" 15"	394.76 (NE) 400.04 (W)	394.56 (S)	18"	CB-110
CB-112	405.81			400.55 (E)	15"	CB-111
CB-113	405.45	15" 18" 15"	395.09 (NW) 395.37 (NE) 396.13 (SE)	395.17 (SW)	18"	CB-111
CB-114	405.45	15"	398.33 (NW)	398.23 (SE)	15"	CB-113
CB-115	404.61	18" 15"	399.45 (SE) 395.88 (NE)	395.69 (SW)	18"	CB-113
CB-117	404.75			399.56 (NW)	18"	CB-115
CB-118	408.15	15" 15"	396.66 (W) 398.60 (NE)	398.48 (SE)	15"	CB-114
CB-119	405.42	15"	399.14 (NW)	398.94 (SW)	15"	CB-118
CB-127	400.57	30"	385.84 (E)	385.84 (W)	30"	CB-109
CB-128	397.88	30" 15" 18"	386.51 (SE) 388.75 (SW) 388.25 (NE)	386.40 (W)	30"	CB-127
CB-130	397.63	24" 18"	387.62 (SW) 389.50 (NE)	387.60 (NW)	24"	DCB-129
CB-131	398.07	18" 18"	388.26 (S) 388.88 (E)	387.76 (NE)	24"	CB-130

PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
DCB-129 TO CB-130	24"	79.74'	0.56%	RCP
CB-130 TO DI-135	18"	31.87'	0.85%	RCP
DI-135 TO DI-136	18"	168.54'	0.52%	RCP
DI-136 TO DI-137	15"	61.81'	1.24%	RCP
DI-137 TO DI-138	15"	98.90'	0.59%	RCP
DI-138 TO DI-139	15"	63.69'	0.50%	RCP
CB-130 TO CB-131	24"	27.01'	0.52%	RCP
CB-131 TO DI-141	18"	49.93'	0.50%	RCP
DI-141 TO DI-142	18"	85.84'	0.50%	RCP
DI-142 TO DDI-143	18"	86.04'	0.50%	RCP
DDI-143 TO DI-144	15"	104.03'	0.50%	RCP
DI-144 TO DI-145	15"	45.07'	1.17%	RCP
CB-128 TO DCB-129	30"	82.74'	0.50%	RCP
CB-110 TO CB-111	18"	110.53'	0.50%	RCP
CB-111 TO CB-113	18"	82.07'	0.50%	RCP
CB-115 TO DCB-116	15"	101.81'	1.83%	RCP
CB-113 TO CB-115	18"	62.12'	0.51%	RCP
CB-114 TO CB-118	15"	24.76'	0.62%	RCP
CB-111 TO CB-112	15"	27.01'	1.88%	RCP
CB-109 TO CB-110	18"	39.10'	0.50%	RCP

PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-109 TO CB-127	30"	70.28'	0.65%	RCP
CB-107 TO CB-108	18"	28.99'	1.95%	RCP
CB-105 TO CB-107	30"	66.34'	0.50%	RCP
CB-105 TO CB-106	18"	26.91'	0.50%	RCP
CB-103 TO CB-105	30"	60.86'	0.50%	RCP
TCB-102 TO CB-103	36"	107.67'	0.76%	RCP
FES-100 TO CB-101	36"	112.55'	0.50%	RCP
CB-113 TO CB-114	15"	27.05'	0.51%	RCP
CB-103 TO CB-104	18"	28.22'	0.50%	RCP
CB-127 TO CB-128	30"	91.63'	0.61%	RCP
CB-115 TO CB-117	18"	17.58'	0.66%	18" RCP
CB-107 TO CB-109	30"	85.91'	0.50%	RCP
CB-128 TO YI-157	15"	44.84'	0.56%	RCP
CB-128 TO YI-148	18"	22.76'	2.20%	RCP
CB-101 TO TCB-102	36"	27.02'	0.50%	RCP
YI-148 TO YI-149	18"	44.05'	5.33%	RCP
DI-139 TO DI-140	18"	91.26'	0.51%	RCP
CB-131 TO CB-132	18"	62.17'	1.00%	RCP
CB-132 TO CB-133	18"	27.00'	5.56%	RCP
CB-118 TO DI-125	15"	86.36'	0.50%	RCP

RIP RAP DISSIPATOR SUMMARY TABLE						
OUTLET	MEDIAN STONE DIAMETER (D ₅₀)	MINIMUM APRON LENGTH	WIDTH AT PIPE	WIDTH AT END	MAX STONE DIAMETER	STONE CLASS
FES100	7 IN	19.00 FT	9.00 FT	22.00 FT	11 IN	B
FES152	3 IN	9.00 FT	4.50 FT	10.50 FT	5 IN	B
FES200	10 IN	19.00 FT	9.00 FT	22.00 FT	15 IN	1
FES250	8 IN	12.00 FT	7.50 FT	14.50 FT	12 IN	B
FES300	10 IN	19.00 FT	9.00 FT	22.00 FT	15 IN	1
FES350	10 IN	19.00 FT	9.00 FT	22.00 FT	15 IN	1
FES400	7 IN	11.00 FT	6.00 FT	13.00 FT	10 IN	B
FES450	10 IN	16.00 FT	7.50 FT	18.50 FT	15 IN	1
FES1000	7 IN	18.00 FT	6.00 FT	20.00 FT	11 IN	B
FES2000	6 IN	35.00 FT	9.00 FT	38.00 FT	9 IN	B
FES3001	7 IN	19.00 FT	9.00 FT	22.00 FT	11 IN	B
HW4000	5 IN	12.00 FT	6.00 FT	14.00 FT	7 IN	B

MINIMUM RIP RAP BY PIPE SIZE						
OUTLET	MEDIAN STONE DIAMETER (D ₅₀)	MINIMUM APRON LENGTH	WIDTH AT PIPE	WIDTH AT END	MAX STONE DIAMETER	STONE CLASS
12"	3 IN	5.00 FT	3.00 FT	8.00 FT	5 IN	B
15"	4 IN	8.00 FT	3.75 FT	11.75 FT	6 IN	B
18"	6 IN	9.00 FT	4.50 FT	13.50 FT	9 IN	B

NOTE: Any outlet not listed above shall conform to minimum dissipation per pipe size above. Design of energy dissipators for culverts is not included in this sheet.

STORM STRUCTURE NOTES:

- FES = FLARED END SECTION
- DI = GRATED YARD INLET
- CB = CATCH BASIN
- DCB = DOUBLE CATCH BASIN
- TCB = TRIPLE CATCH BASIN
- HW = HEADWALL

- ALL YARD INLETS SHALL HAVE 4'X4' INSIDE DIMENSION UNLESS OTHERWISE NOTED.
- RIM ELEVATION GIVEN FOR DI IS FLOW LINE.
- RIM ELEVATION GIVEN FOR YI IS FLOW LINE, NOT TOP OF SLAB.
- RIM ELEVATION GIVEN FOR CB IS TOP OF CURB, NOT FLOW LINE.
- PIPE LENGTH INCLUDES FES LENGTH.

NOTE: HP STORM (POLYPROPYLENE) PIPE THAT EXCEEDS OR MEETS ASTM F2881 AND AASHTO M330 MAY BE USED IN LIEU OF RCP IN ALL AREAS EXCEPT SCM OUTLET PIPE.

SCM 2

STRUCTURE DATA TABLE						
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
CB-203	390.74	24" 18" 15"	371.00 (N) 385.19 (NE) 374.84 (W)	357.10 (S)	30"	DCB-202
CB-204	381.22	18"	359.00 (E)	358.90 (SW)	18"	CB-203
CB-205	383.23	24" 15"	375.27 (N) 379.07 (NE)	375.17 (S)	24"	CB-203
CB-206	383.52			379.50 (SW)	15"	CB-205
CB-207	385.66	24" 15"	378.70 (NW) 386.78 (NE)	378.60 (S)	24"	CB-205
CB-208	385.73			380.92 (SW)	15"	CB-207
CB-209	399.06	24" 15"	384.54 (NW) 383.51 (NE)	382.46 (SE)	24"	CB-207
CB-210	389.07			383.81 (SW)	15"	CB-209
CB-212	391.93	24"	385.07 (N)	385.07 (SE)	24"	CB-209
CB-213	392.62	24"	385.73 (NW)	385.53 (S)	24"	CB-212
CB-214	394.54	18" 24"	387.30 (W) 386.75 (N)	386.65 (SE)	24"	CB-213
CB-215	394.59	18"	389.80 (SW)	387.70 (E)	18"	CB-214
CB-216	395.29	18" 15"	390.80 (W) 390.90 (SW)	390.80 (NE)	18"	CB-215
CB-217	395.27			391.17 (NE)	15"	CB-216
CB-218	396.74	15"	392.37 (W)	392.12 (E)	18"	CB-216
CB-219	401.16	15"	396.16 (SW)	396.16 (E)	15"	CB-218
CB-220	401.51			396.41 (NE)	15"	CB-219
CB-223	393.22	18"	389.03 (W)	388.93 (N)	18"	DCB-222
CB-224	394.48	15" 15"	390.07 (W) 390.90 (N)	389.00 (S)	24"	DCB-221
CB-225	394.37			390.25 (E)	15"	CB-224

STRUCTURE DATA TABLE						
STRUCTURE NAME	R/W ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
DI-295	392.33	15"	388.08 (W)	387.98 (E)	15"	DI-294
DI-296	396.79			392.54 (E)	15"	DI-295
DI-297	385.49	18"	381.70 (S)	381.50 (N)	18"	DI-293
DI-298	398.71			395.50 (N)	18"	DI-297
DI-299	396.02	18"	391.70 (N)	391.50 (S)	18"	DI-237
DI-2000	401.37			397.50 (S)	18"	DI-299
DI-2001	377.00	15"	371.80 (N)	371.80 (S)	15"	DI-251
DI-2002	382.00	15"	378.00 (N)	378.00 (S)	15"	DI-2001
DI-2003	388.94			386.00 (S)	15"	DI-2002
DI-2004	378.65	15"	375.55 (N)	375.55 (E)	15"	CB-203
DI-2005	395.53			380.77 (S)	15"	DI-2004
DI-2007	396.55			392.50 (SW)	15"	CB-2006
FES-200		30"	351.50 (N)			
FES-250		30"	351.50 (W)			
TCB-268	384.00	24" 15"	374.15 (E) 376.25 (S)	374.05 (N)	24"	CB-267

STRUCTURE DATA TABLE						
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
CB-226	400.65	15"	396.57 (W)	396.47 (S)	15"	CB-224
CB-227	400.58			396.75 (E)	15"	CB-226
CB-252	384.35	30" 24"	373.28 (W) 376.79 (N)	373.08 (E)	30"	DI-251
CB-253	386.49	24"	379.40 (N)	379.40 (S)	24"	CB-252
CB-254	389.23	24"	382.40 (NE)	382.30 (S)	24"	CB-253
CB-255	390.88	24" 24"	384.85 (W) 394.28 (N)	384.28 (SW)	24"	CB-254
CB-256	391.87	15" 18"	386.66 (NW) 385.41 (N)	385.41 (S)	24"	CB-255
CB-257	393.39			387.54 (S)	18"	CB-256
CB-259	391.20	15" 18"	386.37 (S) 386.47 (W)	386.37 (E)	18"	DCB-258
CB-260	391.21			387.02 (N)	15"	CB-259
CB-261	394.52	18"	389.96 (NW)	389.86 (E)	18"	CB-259
CB-262	396.88	15" 15"	392.45 (S) 392.64 (W)	392.45 (SE)	18"	CB-261
CB-263	396.86	15"	392.83 (S)	392.73 (N)	15"	CB-262
CB-264	396.56			393.04 (N)	15"	CB-263
CB-265	397.85	15"	393.42 (S)	393.42 (E)	15"	CB-262
CB-266	397.84			393.70 (N)	15"	CB-265
CB-267	384.33	24" 24"	373.75 (S) 373.60 (NW)	373.50 (E)	30"	CB-252
CB-270	385.94	15" 15"	378.12 (E) 377.68 (S)	377.48 (N)	15"	TCB-268
CB-271	385.88	15"	379.33 (E)	378.32 (W)	15"	CB-270
CB-272	391.61	15"	378.77 (E)	378.57 (N)	15"	CB-270

PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-203 TO CB-205	24"	81.43'	5.12%	RCP
CB-205 TO CB-206	15"	28.48'	1.50%	RCP
CB-205 TO CB-207	24"	76.88'	4.33%	RCP
CB-207 TO CB-209	24"	106.77'	3.52%	RCP
CB-209 TO CB-212	24"	95.23'	0.56%	RCP
CB-207 TO CB-208	15"	27.34'	0.51%	RCP
CB-209 TO CB-210	15"	27.00'	1.12%	RCP
CB-270 TO CB-272	15"	178.50'	0.50%	RCP
CB-268 TO CB-270	15"	120.16'	1.02%	RCP
CB-267 TO CB-268	24"	45.61'	0.66%	RCP
CB-270 TO CB-271	15"	27.04'	0.74%	RCP
CB-268 TO CB-269	24"	26.97'	1.11%	RCP
CB-266 TO CB-269	15"	146.68'	1.84%	RCP
CB-286 TO CB-287	15"	27.01'	0.56%	RCP
CB-285 TO CB-286	18"	74.03'	3.04%	RCP
CB-283 TO CB-285	18"	69.27'	3.50%	RCP
CB-279 TO CB-283	18"	89.27'	0.95%	RCP
CB-279 TO CB-280	24"	27.00'	1.11%	RCP
CB-267 TO CB-279	24"	48.64'	0.82%	RCP
CB-280 TO CB-281	18"	44.85'	1.00%	RCP

PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-223 TO DI-236	18"	103.44'	0.50%	RCP
DI-236 TO DI-238	18"	225.44'	2.98%	RCP
DI-236 TO DI-237	18"	57.56'	0.43%	RCP
CB-283 TO DI-283	18"	77.38'	0.47%	RCP
DI-201 TO CB-202	30"	22.49'	5.00%	RCP
CB-202 TO CB-203	30"	78.32'	4.83%	RCP
FEES-200 TO DI-201	30"	61.26'	0.82%	RCP
DCB-222 TO CB-223	18"	57.61'	0.42%	RCP
DI-296 TO DI-296	15"	140.31'	3.18%	RCP
DI-294 TO DI-295	15"	114.04'	2.40%	RCP
DI-293 TO DI-294	15"	58.16'	7.61%	RCP
CB-273 TO DI-274	15"	79.57'	0.50%	RCP
DI-232 TO DI-233	16"	107.21'	5.60%	RCP
DI-231 TO DI-232	18"	125.29'	3.91%	RCP
DI-230 TO DI-231	18"	123.32'	7.22%	RCP
DI-228 TO DI-230	18"	147.46'	0.50%	RCP
DI-228 TO DI-229	18"	62.68'	0.50%	RCP
CB-204 TO DI-228	18"	137.00'	0.77%	RCP
CB-203 TO CB-204	18"	28.20'	2.53%	RCP
CB-271 TO DI-275	15"	133.35'	0.50%	RCP

SCM 3

STRUCTURE DATA TABLE						
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
CB-302	405.95	15" 24"	388.70 (NE) 391.72 (SE) 394.58 (NW)	391.52 (SW)	24"	DI-301
CB-303	405.97			399.00 (SW)	15"	CB-302
CB-304	408.60	24"	396.00 (NW)	396.00 (SE)	24"	CB-302
CB-305	409.78	18" 24"	399.62 (NE) 397.00 (NW)	397.00 (SE)	24"	CB-304
CB-306	409.58	18"	400.00 (E)	399.80 (SW)	18"	CB-305
CB-307	407.46	18"	401.00 (SE)	400.80 (W)	18"	CB-306
CB-308	407.46			401.43 (NW)	18"	CB-307
CB-309	410.01	24"	397.50 (W)	397.40 (SE)	24"	CB-305
CB-310	408.40	24"	398.20 (W)	398.10 (E)	24"	CB-309
CB-313	398.03	15"	393.22 (NE) 393.02 (NW)		15"	CB-302
CB-314	398.15			393.40 (SW)	15"	CB-313
CB-361	404.94	15" 15"	397.60 (E) 394.82 (NW)	389.24 (S)	24"	DI-356
CB-362	406.15	15"	399.00 (N)	398.80 (W)	15"	CB-361
CB-363	406.17	15"	399.30 (SE)	399.20 (S)	15"	CB-362
CB-364	408.24	15"	399.73 (E)	399.63 (SW)	15"	CB-363
CB-365	407.88			399.90 (W)	15"	CB-364
CB-367	405.04	12"	399.79 (NW)	395.18 (SE)	15"	CB-361
CB-368	403.12	24"	389.88 (SW)	389.78 (E)	24"	DI-356
CB-368A	401.60	15" 24"	391.01 (NW) 390.24 (S)	390.14 (NE)	24"	CB-368
CB-369	401.62			391.19 (SE)	15"	CB-368A

STRUCTURE DATA TABLE						
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
CB-372	400.83	15" 15"	392.06 (W) 392.16 (S)	391.96 (N)	15"	DCB-370
CB-373	400.83			392.23 (E)	15"	CB-372
CB-374	402.60	15"	397.58 (W)	397.04 (N)	15"	CB-372
CB-375	402.82			397.80 (E)	15"	CB-374
DCB-311	406.58	18"	399.32 (N)	398.83 (E)	24"	CB-310
DCB-312	406.58			399.50 (S)	18"	DCB-311
DCB-370	400.19	15" 24"	391.55 (S) 390.90 (W)	390.80 (N)	24"	CB-368A
DCB-371	400.18	18"	392.80 (W)	391.25 (E)	24"	DCB-370
DI-301	395.35	24"	386.50 (NE)	386.30 (SW)	24"	FES-300
DI-351	393.85	30" 18"	384.78 (W) 386.00 (N)	384.68 (SE)	30"	FES-350
DI-352	404.95	18"	400.06 (E)	399.86 (W)	18"	DI-379
DI-353	407.60			401.09 (W)	18"	DI-352
DI-354	393.12	30"	387.98 (W)	387.88 (E)	30"	DI-351
DI-355	394.37	30" 18"	388.48 (NW) 389.80 (SW)	388.38 (E)	30"	DI-354
DI-356	400.02	24" 24"	388.93 (N) 389.33 (W)	388.83 (SE)	30"	DI-355
DI-357	396.73	18"	390.20 (S)	390.10 (NE)	18"	DI-355
DI-358	398.44	18"	390.85 (S)	390.75 (N)	18"	DI-357
DI-359	396.81	18"	392.08 (S)	391.88 (N)	18"	DI-358
DI-360	399.15			395.50 (N)	18"	DI-359
DI-368	406.90			400.00 (SE)	12"	CB-367

STRUCTURE DATA TABLE						
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
DI-376	398.87	18"	393.64 (N)	393.43 (E)	18"	DCB-371
DI-377	402.97	18"	394.50 (NE)	394.40 (S)	18"	DI-376
DI-378	404.73			397.47 (SW)	18"	DI-377
DI-379	406.25	18" 18"	398.30 (W) 389.37 (E)	389.17 (S)	18"	DI-351
DI-380	404.63			400.13 (E)	18"	DI-379
FES-300		24"	384.50 (NE)			
FES-350		30"	383.51 (NW)			
FES-3001		24"	376.00 (NW)			
FES-3003		36"	380.00 (N)			
R-3002	384.50			379.00 (SE)	24"	FES-3001
YI-3004	386.06			381.14 (S)	36"	FES-3003

SCM 4

STRUCTURE DATA TABLE						
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
CB-405	394.69	15" 15"	388.75 (SE) 385.40 (NE) 389.34 (NW)	388.00 (SW)	24"	DI-401
CB-406	394.69	18"	390.08 (NW)	389.80 (SW)	18"	CB-405
CB-407	394.71	18"	390.41 (NE)	390.21 (SE)	18"	CB-406
CB-408	395.58	15"	390.45 (NE)	390.25 (SE)	15"	CB-405
CB-409	395.63			390.80 (SW)	15"	CB-408
CB-410	395.73	15"	389.53 (SE)	389.33 (NW)	15"	CB-405
CB-411	396.56	15"	391.93 (E)	391.73 (NW)	15"	CB-410
CB-412	396.06			392.21 (W)	15"	CB-411
CB-452	391.82	18" 24" 18"	390.10 (SW) 382.05 (NE) 382.50 (SE)	380.00 (NW)	30"	DI-451
CB-453	391.82	18"	382.82 (NE)	382.72 (NW)	18"	CB-452
CB-454	392.19	18"	382.87 (SE)	382.87 (SW)	18"	CB-453
CB-455	385.73	15"	381.13 (S)	380.88 (NE)	18"	CB-452
CB-456	384.76			381.30 (N)	15"	CB-455
CB-457	395.52	18" 15"	383.29 (NE) 387.87 (SE)	382.79 (SW)	24"	CB-452
CB-458	395.52			388.01 (NW)	15"	CB-457
CB-459	396.37	15" 18"	391.54 (SE) 384.17 (NE)	384.07 (SW)	18"	CB-457
CB-460	396.37			391.68 (NW)	15"	CB-459
CB-461	396.54	18"	384.66 (NE)	384.56 (SW)	18"	CB-459
CB-462	397.25	15" 15"	385.16 (SE) 389.75 (N)	385.06 (SW)	18"	CB-461
CB-463	397.22	15"	385.40 (SE)	385.30 (NW)	15"	CB-462

STRUCTURE DATA TABLE						
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
CB-464	398.44			393.59 (S)	15"	CB-462
CB-466	394.67	15"	385.74 (SE)	385.64 (NW)	15"	CB-463
CB-467	390.35	15" 15"	386.35 (NE) 387.50 (SW)	386.15 (NW)	15"	CB-466
CB-468	389.69			386.53 (SW)	15"	CB-467
CB-4022	377.86			365.00 (W)	18"	DI-4021
DI-401	393.75	24" 18"	382.65 (NE) 385.00 (NW)	382.55 (S)	24"	FES-400
DI-402	391.48	18"	386.79 (NW)	386.59 (SE)	18"	DI-401
DI-403	398.67	18"	393.04 (NW)	392.84 (SE)	18"	DI-402
DI-404	401.75			397.32 (SE)	18"	DI-403
DI-415	394.78	18"	391.77 (SE)	391.57 (SW)	18"	CB-407
DI-416	396.45			393.03 (NW)	18"	DI-415
DI-451	398.67	30" 18"	379.21 (SE) 380.21 (SW)	379.11 (N)	30"	FES-450
DI-469	392.33	15"	389.35 (SW)	389.15 (NE)	15"	CB-467
DI-470	399.98	15" 15"	384.26 (NE) 383.57 (SW)	383.52 (NW)	18"	CB-454
DI-471	391.68	15"	386.00 (NE)	385.80 (SW)	15"	DI-470
DI-472	387.06			384.12 (NE)	15"	DI-470
DI-473	394.47			388.02 (SW)	15"	DI-471
DI-474	395.49			390.57 (NE)	15"	DI-469
DI-476	392.51	15"	386.22 (NE)	384.00 (NW)	15"	FES-475
DI-477	394.56	15"	389.13 (NE)	388.93 (SW)	15"	DI-476

STRUCTURE DATA TABLE						
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
DI-478	398.12			392.68 (SW)	15"	DI-477
DI-479	388.15	18"	381.25 (SW)	381.05 (NE)	18"	DI-451
DI-480	385.25			381.75 (NE)	18"	DI-479
DI-4021	360.75	24" 18"	357.00 (N) 357.00 (E)	356.80 (W)	24"	HW-4020
DI-4023	367.74	18"	361.00 (NE)	357.90 (S)	24"	DI-4021
DI-4024	379.72			366.00 (SW)	18"	DI-4023
DI-4101	375.98			371.30 (W)	15"	FES-4100
FES-400	384.24	24"	380.50 (N)			
FES-450	382.01	30"	378.99 (S)			
FES-475	382.44	15"	380.50 (SE)			
FES-4100	370.28	15"	368.35 (E)			
HW-4020	357.75	24"	355.00 (E)			

PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
FES-300 TO DI-301	24"	171.78'	1.05%	RCP
DI-301 TO CB-302	24"	186.13'	2.70%	RCP
CB-302 TO CB-303	15"	35.00'	0.86%	RCP
CB-302 TO CB-313	15"	173.89'	0.75%	RCP
CB-313 TO CB-314	15"	35.14'	0.50%	RCP
CB-302 TO CB-304	24"	70.79'	2.01%	RCP
CB-305 TO CB-309	24"	79.23'	0.50%	RCP
CB-304 TO CB-305	24"	50.05'	2.00%	RCP
CB-363 TO CB-364	15"	43.52'	0.76%	RCP
CB-362 TO CB-363	15"	33.50'	0.60%	RCP
CB-310 TO DCB-311	24"	112.90'	0.55%	RCP
CB-372 TO CB-374	15"	122.19'	3.99%	RCP
DCB-370 TO CB-372	15"	78.15'	0.52%	RCP
CB-374 TO CB-375	15"	43.43'	0.50%	RCP
CB-372 TO CB-373	15"	35.00'	0.50%	RCP
DCB-370 TO DCB-371	24"	35.10'	1.00%	RCP
CB-368A TO DCB-370	24"	111.73'	0.50%	RCP
CB-368 TO CB-368A	24"	49.62'	0.52%	RCP
CB-361 TO CB-362	15"	84.50'	1.42%	RCP
CB-368A TO CB-369	15"	34.94'	0.51%	RCP

PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-361 TO CB-367	15"	35.21'	1.02%	RCP
CB-364 TO CB-365	15"	29.18'	0.58%	RCP
DCB-371 TO DI-376	18"	126.99'	0.50%	RCP
DCB-311 TO DCB-312	18"	35.00'	0.50%	RCP
CB-305 TO CB-306	18"	35.01'	0.50%	RCP
CB-306 TO CB-307	18"	56.05'	1.43%	RCP
CB-307 TO CB-308	18"	35.00'	1.23%	RCP
DI-356 TO CB-361	24"	44.87'	0.68%	RCP
DI-355 TO DI-356	30"	69.34'	0.50%	RCP
FES-350 TO DI-351	30"	233.35'	0.50%	RCP
DI-351 TO DI-354	30"	123.21'	2.52%	RCP
FES-3001 TO R-3002	24"	74.83'	4.01%	RCP
FES-3003 TO YI-3004	36"	228.63'	0.50%	RCP
CB-309 TO CB-310	24"	80.77'	0.74%	RCP
DI-355 TO DI-357	18"	27.30'	1.10%	RCP
DI-357 TO DI-358	18"	75.44'	0.73%	RCP
DI-358 TO DI-359	18"	82.57'	1.25%	RCP
DI-359 TO DI-360	18"	164.14'	2.08%	RCP
DI-354 TO DI-355	30"	79.21'	0.50%	RCP
DI-379 TO DI-382	18"	157.97'	6.65%	RCP

PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-452 TO CB-455	18"	133.49'	0.58%	RCP
CB-452 TO CB-457	24"	133.00'	0.56%	RCP
CB-455 TO CB-456	15"	34.00'	0.50%	RCP
CB-452 TO CB-453	18"	27.00'	0.81%	RCP
CB-457 TO CB-458	15"	27.02'	0.50%	RCP
FES-400 TO DI-401	24"	211.73'	0.97%	RCP
DI-401 TO CB-405	24"	134.57'	3.98%	RCP
CB-405 TO CB-410	15"	93.29'	0.62%	RCP
CB-405 TO CB-408	15"	91.00'	1.00%	RCP
CB-408 TO CB-409	15"	35.08'	1.00%	RCP
CB-405 TO CB-406	18"	35.00'	1.00%	RCP
CB-466 TO CB-467	15"	81.60'	0.50%	RCP
CB-463 TO CB-466	15"	47.08'	0.50%	RCP
CB-462 TO CB-463	15"	27.00'	0.50%	RCP
CB-461 TO CB-462	18"	80.71'	0.50%	RCP
CB-462 TO CB-464	15"	47.55'	8.08%	RCP
CB-411 TO CB-412	15"	39.92'	0.71%	RCP
CB-410 TO CB-411	15"	40.11'	5.48%	RCP
CB-459 TO CB-461	18"	78.01'	0.50%	RCP
CB-457 TO CB-458	18"	123.74'	0.63%	RCP

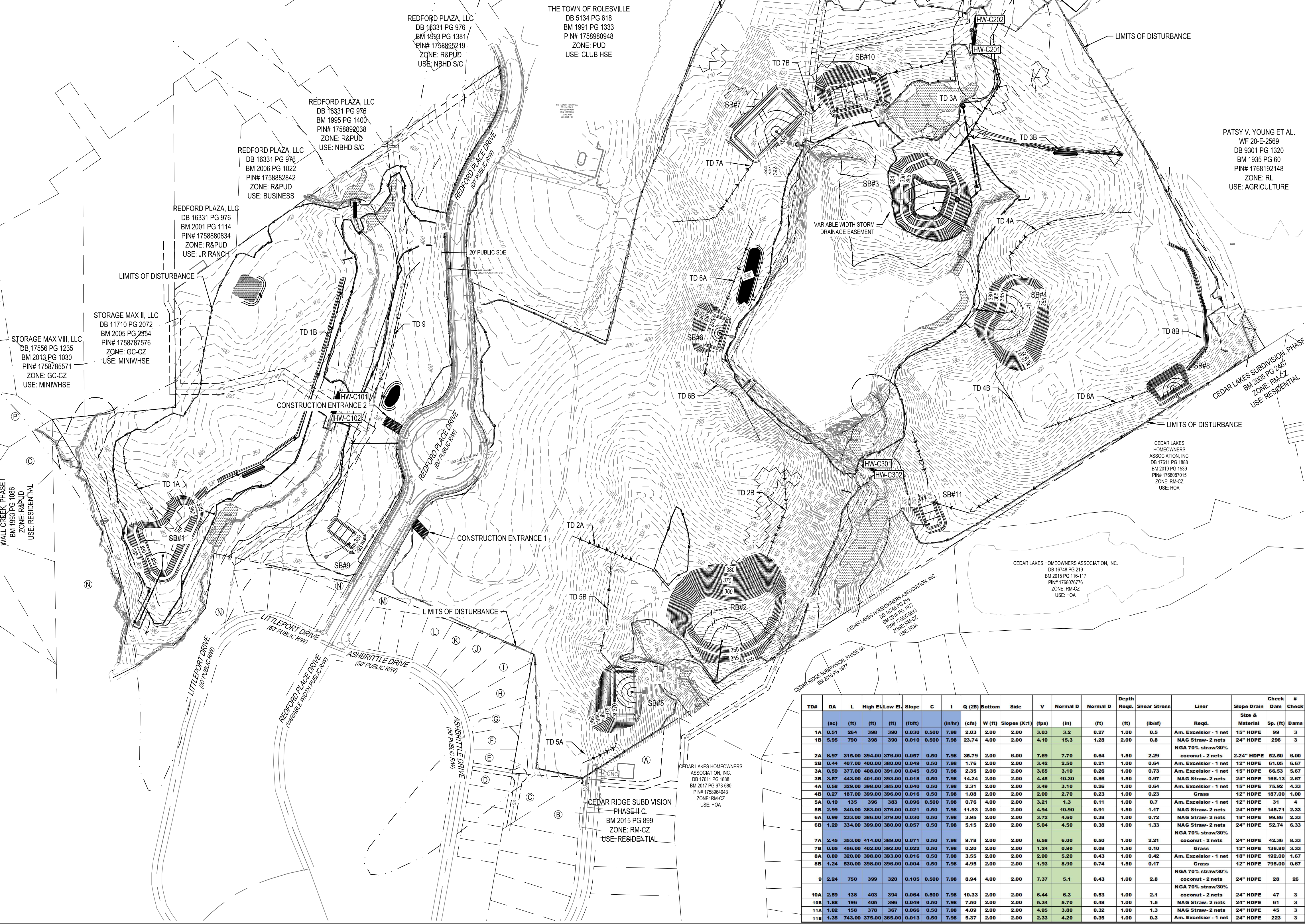
PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-459 TO CB-460	15"	27.00'	0.50%	RCP
DI-451 TO CB-452	30"	158.96'	0.50%	RCP
DI-4023 TO DI-4024	18"	49.80'	10.04%	RCP
FES-450 TO DI-451	30"	23.51'	0.50%	RCP
DI-4021 TO CB-4022	18"	47.21'	16.94%	RCP
DI-4021 TO DI-4023	24"	106.33'	0.85%	RCP
CB-467 TO CB-468	15"	0.02'	0.50%	RCP
CB-407 TO DI-415	18"	115.97'	1.00%	RCP
CB-406 TO CB-407	18"	13.25'	1.00%	RCP
DI-415 TO DI-416	18"	126.25'	1.00%	RCP
CB-454 TO DI-470	18"	125.59'	0.52%	RCP
CB-453 TO CB-454	18"	9.96'	0.50%	RCP
HW-4020 TO DI-4021	24"	40.27'	4.47%	RCP
CB-467 TO DI-469	15"	23.64'	6.98%	RCP
DI-470 TO DI-471	15"	87.27'	1.76%	RCP
DI-470 TO DI-472	15"	107.31'	0.52%	RCP
DI-401 TO DI-402	18"	89.29'	1.76%	RCP
DI-402 TO DI-403	18"	128.27'	4.72%	RCP
DI-403 TO DI-404	18"	84.41'	5.07%	RCP
FES-4100 TO DI-4101	15"	67.57'	4.37%	RCP

SKIMMER BASIN SUMMARY																	
BASIN NUMBER	DRAINAGE AREA (AC)	DENUDED AREA (AC)	RUNOFF COEFF.	SYSTEM INTENSITY (IN/HR)	25-YEAR PEAK FLOW (CFS)	BASIN DIMENSIONS			TOP OF DAM EL. (FT)	WEIR LENGTH (FT)	AREA REQUIRED (SF)	AREA PROVIDED (SF)	VOLUME REQUIRED (CF)	VOLUME PROVIDED (CF)	SKIMMER SIZE (IN)	SKIMMER ORIFICE DIA. (IN)	DEWATER TIME (DAYS)
						DEPTH (FT)	LENGTH (FT)	WIDTH (FT)									
SB #1	7.10	7.10	0.50	7.93	28.2	3.0	150	75	390	10	11,103	11,250	12,780	29,844	4	1.75	3.13
RB #2	12.10	12.10	0.50	7.93	48.0	3.0	196	98	357	15	18,922	19,208	21,780	52,476	4	2.25	3.23
SB #3	5.23	5.23	0.50	7.93	20.7	3.0	155	62	390	10	8,179	9,610	9,414	25,068	4	1.50	3.14
SB #4	3.60	3.60	0.50	7.93	14.3	3.0	116	58	386	10	5,630	6,728	6,480	17,196	4	1.25	3.11
SB #5	3.90	3.90	0.50	7.93	15.5	3.0	112	56	371	15	6,099	6,272	7,020	15,936	4	1.50	2.34
SB #6	3.10	3.10	0.50	7.93	12.3	3.0	102	51	377	10	4,848	5,202	5,580	12,996	3	1.25	3.09
SB #7	9.90	9.90	0.50	7.93	39.3	3.0	176	88	388	15	15,482	15,488	17,820	41,856	4	2.00	3.34
SB #8	3.10	3.10	0.50	7.93	12.3	3.0	100	50	392	10	4,848	5,000	5,580	12,444	4	1.00	4.19
SB #9	3.00	3.00	0.50	7.93	11.9	3.0	100	50	392	10	4,691	5,000	5,400	12,444	4	1.00	4.05
SB #10	6.19	6.19	0.50	7.93	24.5	3.0	140	70	388	10	9,680	9,800	11,142	25,764	4	1.75	3.85
SB #11	2.31	2.31	0.50	7.93	9.2	3.0	90	42	387	10	3,612	3,780	4,158	9,108	4	1.00	4.40

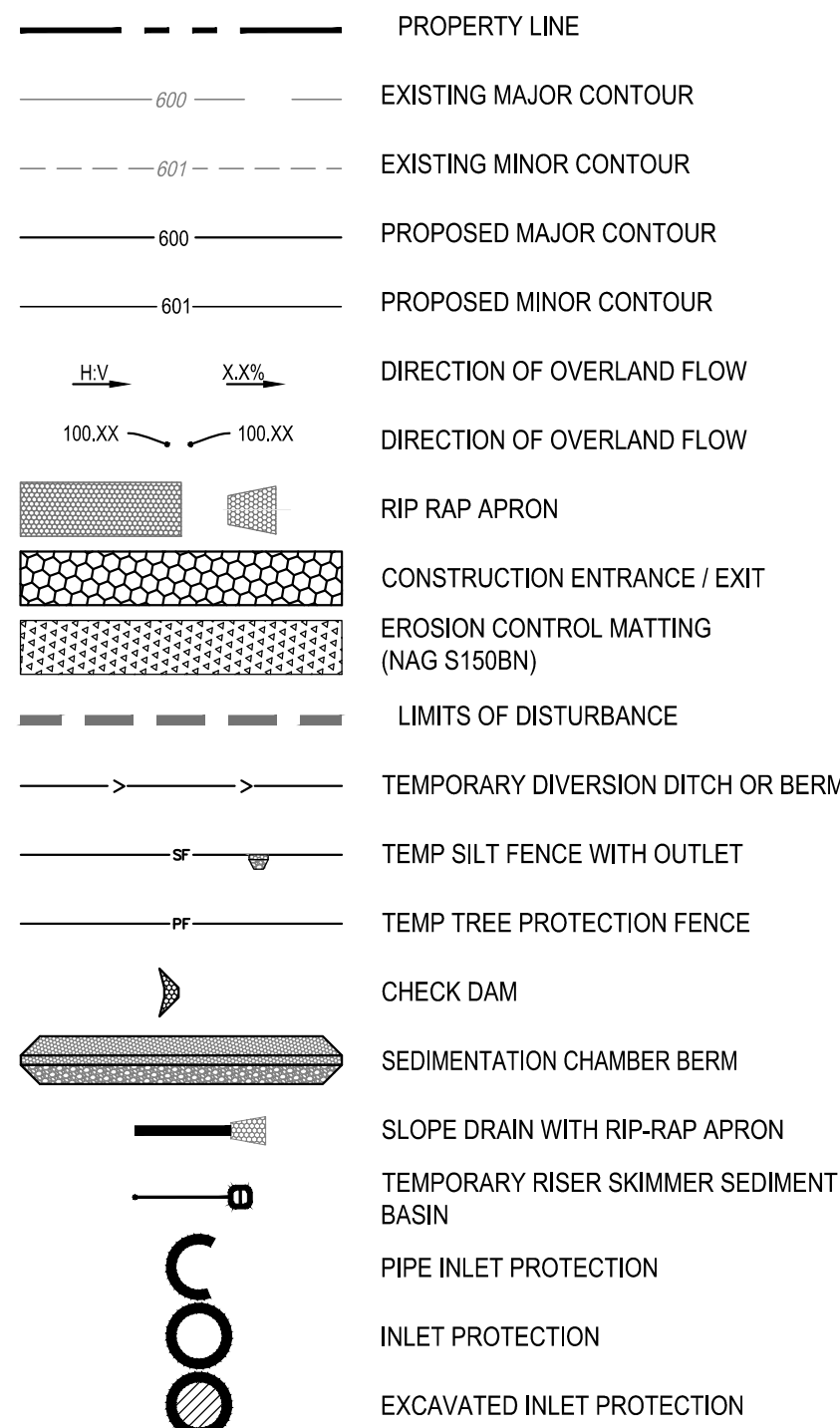
NARRATIVE

PROJECT CONSISTS OF 275 UNITS ON BOTH SIDES OF REDFORD PLACE DRIVE WITH FOUR DETENTION PONDS, AND ASSOCIATED STREETS, AND INFRASTRUCTURE. THE PROJECT ALSO CONSISTS OF APPROXIMATELY 5,200 LF OF PUBLIC GREENWAY. THE PROJECT WILL BE COMPLETED IN 3 PHASES BUT THE EROSION CONTROL AND OVERALL GRADING WILL BE COMPLETED AT ONCE.

THERE IS A PORTION OF THE PROJECT THAT IS NOT PROPOSED TO BE DISTURBED WITH EQUIPMENT. THE DOG PARK AND THE DISC GOLF FACILITY WILL NEED TO BE HAND CLEARED FOR FENCE AND LAUNCH PAD INSTALLATION.



EROSION CONTROL LEGEND



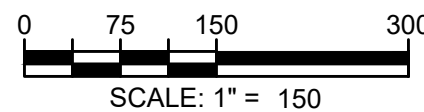
CONSTRUCTION SEQUENCE - PHASE 1

- INSTALL TREE PROTECTION FENCING PER THE APPROVED PLAN. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH WAKE COUNTY. OBTAIN A LAND DISTURBING PERMIT.
- INSTALL GRAVEL CONSTRUCTION PAD, SILT FENCE, AND BRIDGEMATS AT STREAM CROSSINGS TO ACCESS AREAS ON EACH SIDE OF THE STREAMS. SEE SHEETS C7-4 - C7-7 FOR TEMPORARY CHANNEL SIZING AND CULVERT INSTALLATION SEQUENCING.
- INSTALL TEMPORARY DIVERSIONS, SKIMMER BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
- INSTALL THE OUTLET FOR SB4 AND THE BYPASS LINE FROM JB3001 - YI3002 WITH INLET PROTECTION.
- CALL WAKE COUNTY FOR AN ONSITE INSPECTION BY THE COUNTY TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
- INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.

STOCKPILE NOTES:

- SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED TO REDUCE EROSION. TARPS SHOULD BE KEYS IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
- IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE, THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.
- THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
- ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

TOTAL DISTURBED AREA
±62.3 ACRES



11/21/2023
PER TOWN OF ROLESVILLE COMMENT

10/02/2023
PER TOWN OF ROLESVILLE COMMENT

08/01/2023
PER TOWN OF ROLESVILLE COMMENT

06/01/2023
INITIAL SUBMITTAL

DESIGNED BY: DF/CD

DRAWN BY: DF/JWM

REVIEWED BY: DF

LENNAR

CORPORAION

5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BGCINC.COM
NC LICENSE #C-4397

PARKER RIDGE

82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

OVERALL PHASE 1 EROSION
CONTROL PLAN

12-01-23

NOT FOR
CONSTRUCTION

FILE NUMBER:
8430-03

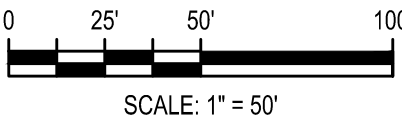
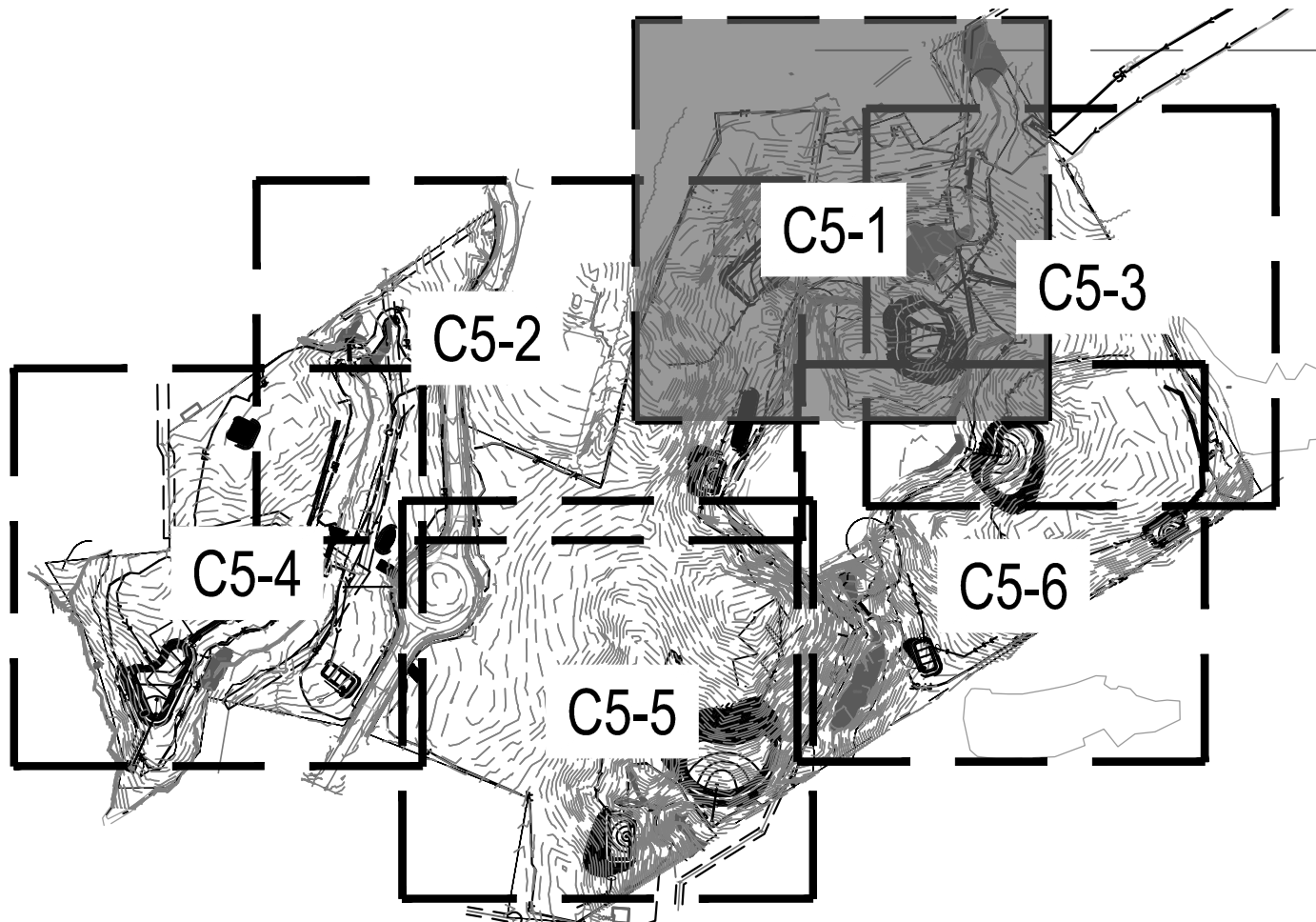
DATE: 11/21/2023

C5-0

\\browngay.net\panzura\Regions\NCA\Projects\Lennar\8430-03 - Lennar - School Street - DWG\PlanSheets\On-Site\C5-1 ENLARGED PHASE 1 EROSION CONTROL PLAN (1 OF 6) Plotted: 12/1/2023 2:51:09 PM

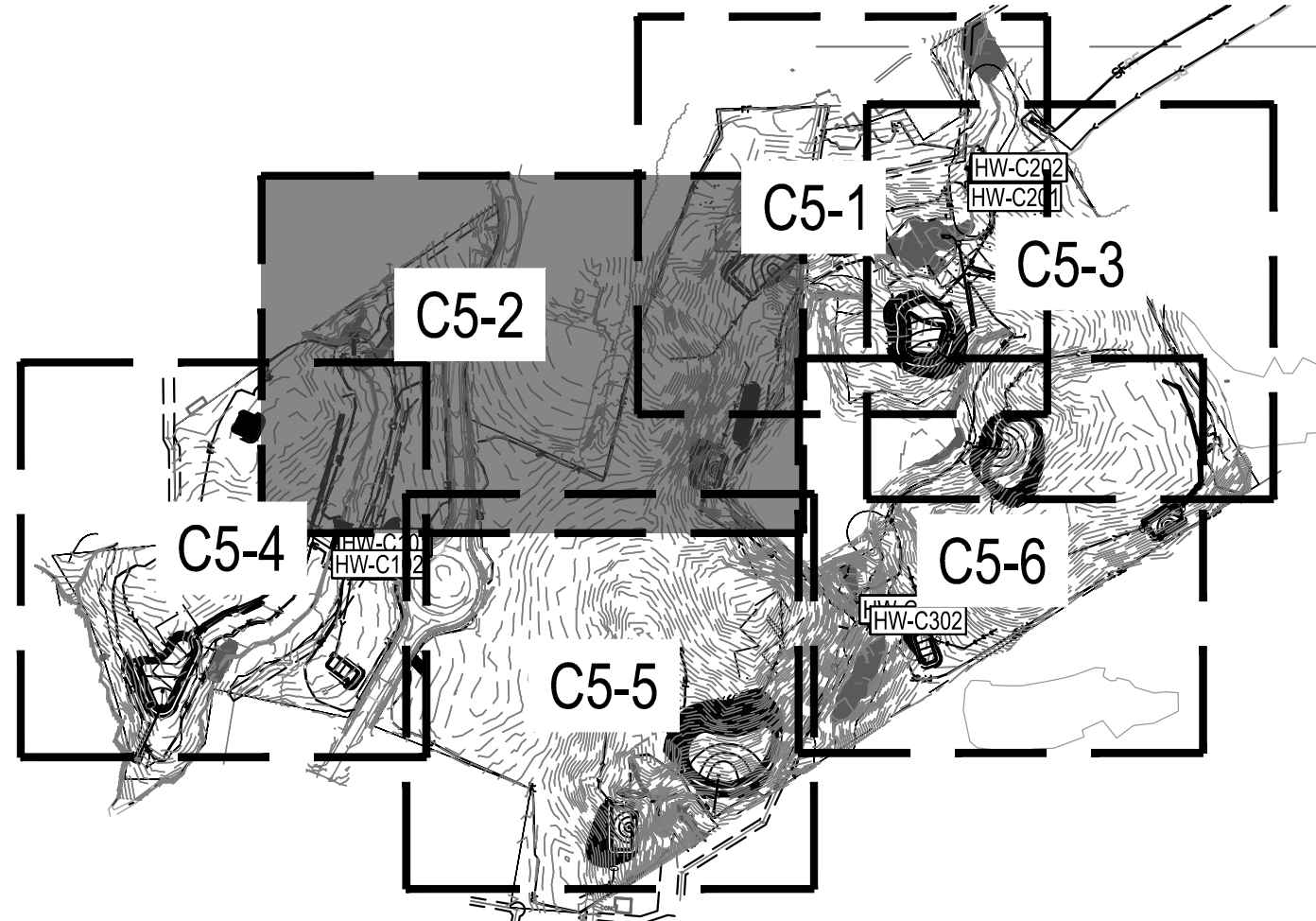


EROSION CONTROL LEGEND	
	PROPERTY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	DIRECTION OF OVERLAND FLOW
	DIRECTION OF OVERLAND FLOW
	RIP RAP APRON
	CONSTRUCTION ENTRANCE / EXIT
	EROSION CONTROL MATTING (NAG S150BN)
	LIMITS OF DISTURBANCE
	TEMPORARY DIVERSION DITCH OR BERM
	TEMP SILT FENCE WITH OUTLET
	TEMP TREE PROTECTION FENCE
	CHECK DAM
	SEDIMENTATION CHAMBER BERM
	SLOPE DRAIN WITH RIP-RAP APRON
	TEMPORARY RISER SKIMMER SEDIMENT BASIN
	PIPE INLET PROTECTION
	INLET PROTECTION
	EXCAVATED INLET PROTECTION



11/21/2023	PER TOWN OF ROLESVILLE COMMENT
10/02/2023	PER TOWN OF ROLESVILLE COMMENT
08/01/2023	PER TOWN OF ROLESVILLE COMMENT
06/01/2023	INITIAL SUBMITTAL
DESIGNED BY:	DF/CD
DRAWN BY:	DF/JWM
REVIEWED BY:	DF
 5440 WADE PARK BLVD, SUITE 102 RALEIGH NC 27607 WWW.BCEINC.COM NC LICENSE #C-4397	
LENNAR CORPORAION 1100 PERIMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560	
PARKER RIDGE 82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571	
ENLARGED PHASE 1 EROSION CONTROL PLAN (1 OF 6)	
 NOT FOR CONSTRUCTION	
FILE NUMBER: 8430-03	
DATE: 11/21/2023	
C5-1	

\\browngay.net\panzura\Regions\INCA\Projects\Lennar\8430-03 - Lennar - School Street - Erosion Control Plan (2 of 6) - EROS-PH1.dwg Layout: C5-2 ENLARGED PHASE 1 EROSION CONTROL PLAN (2 OF 6) Plotted: 12/1/2023 2:51:33 PM



11/21/2023

PER TOWN OF ROLESVILLE COMMENT

10/02/2023

PER TOWN OF ROLESVILLE COMMENT

08/01/2023

PER TOWN OF ROLESVILLE COMMENT

06/01/2023

INITIAL SUBMITTAL

DESIGNED BY: DF/CD

DRAWN BY: DF/JWM

REVIEWED BY: DF

BCE

5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BCEINC.COM
NC LICENSE #C-4397

LENNAR

CORPORAION

1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE

82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED PHASE 1

EROSION CONTROL

PLAN (2 OF 6)

811

Know what's below.
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FILE NUMBER:
8430-03

DATE: 11/21/2023

C5-2

PRELIMINARY

ENGINEER

DEBRA M. FERRIS

12-01-23

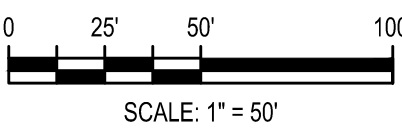
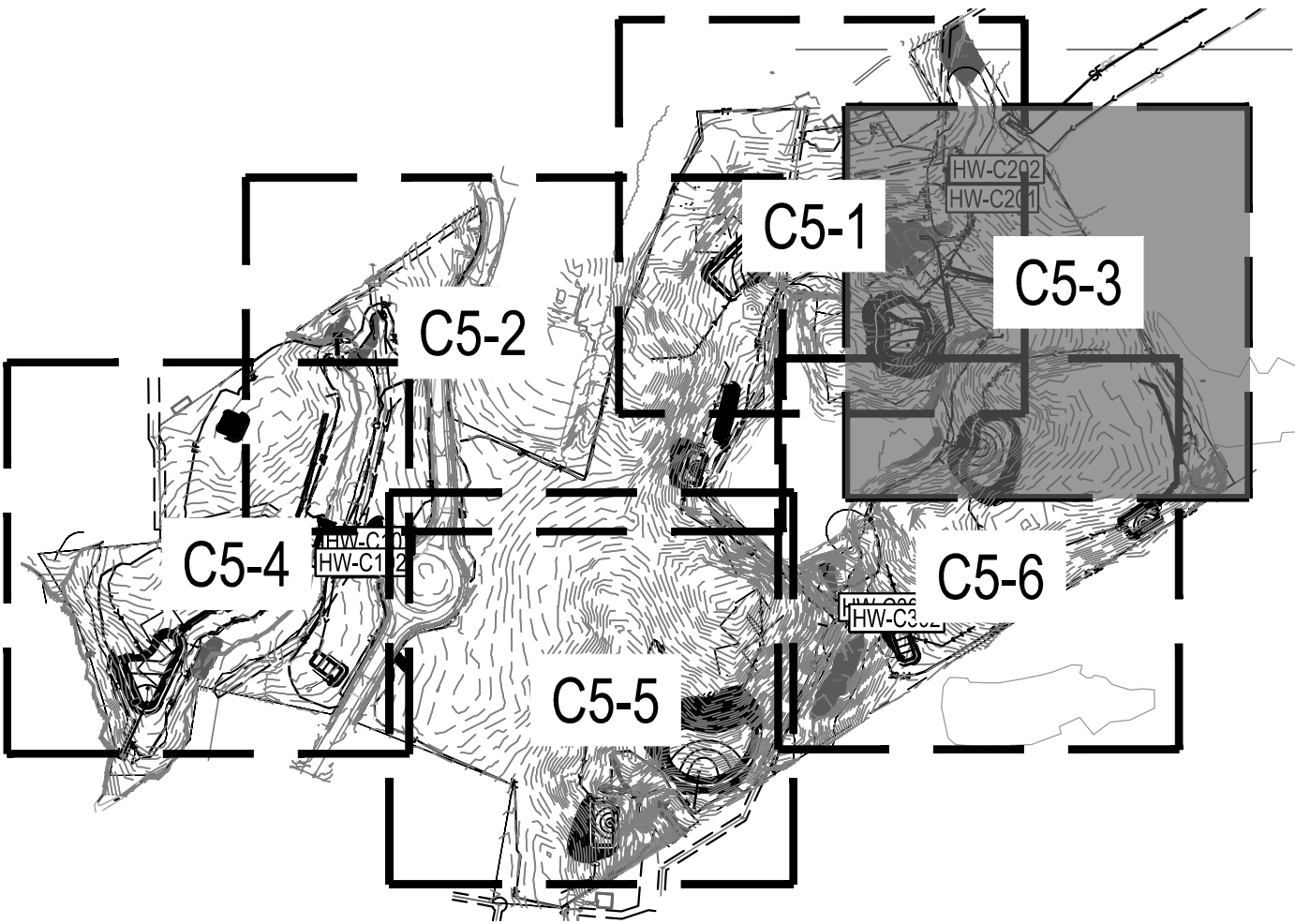
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PATSY V. YOUNG ET AL.
WF 20-E-2569
DB 9301 PG 1320
BM 1935 PG 60
PIN# 1768192148
ZONE: RL
USE: AGRICULTURE

EROSION CONTROL LEGEND	
	PROPERTY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	DIRECTION OF OVERLAND FLOW
	DIRECTION OF OVERLAND FLOW
	RIP RAP APRON
	CONSTRUCTION ENTRANCE / EXIT
	EROSION CONTROL MATTING (NAG S150BN)
	LIMITS OF DISTURBANCE
	TEMPORARY DIVERSION DITCH OR BERM
	TEMP SILT FENCE WITH OUTLET
	TEMP TREE PROTECTION FENCE
	CHECK DAM
	SEDIMENTATION CHAMBER BERM
	SLOPE DRAIN WITH RIP-RAP APRON
	TEMPORARY RISER SKIMMER SEDIMENT BASIN
	PIPE INLET PROTECTION
	INLET PROTECTION
	EXCAVATED INLET PROTECTION



		11/21/2023	PER TOWN OF ROLESVILLE COMMENT
		10/02/2023	PER TOWN OF ROLESVILLE COMMENT
		08/01/2023	PER TOWN OF ROLESVILLE COMMENT
	REV	06/01/2023	INITIAL SUBMITTAL
DESIGNED BY:		DF/CD	
DRAWN BY:		DF/JWM	
REVIEWED BY:		DF	
5440 WADE PARK BLVD, SUITE 102 RALEIGH NC 27607 WWW.BCEINC.COM NC LICENSE #C-4397			
LENNAR CORPORATION 1100 PERIMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560			
PARKER RIDGE 82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571			
ENLARGED SITE PLAN (3 OF 7)			
NOT FOR CONSTRUCTION			
FILE NUMBER: 8430-03			
DATE: 11/21/2023			
C5-3			

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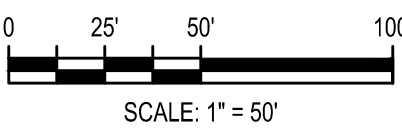
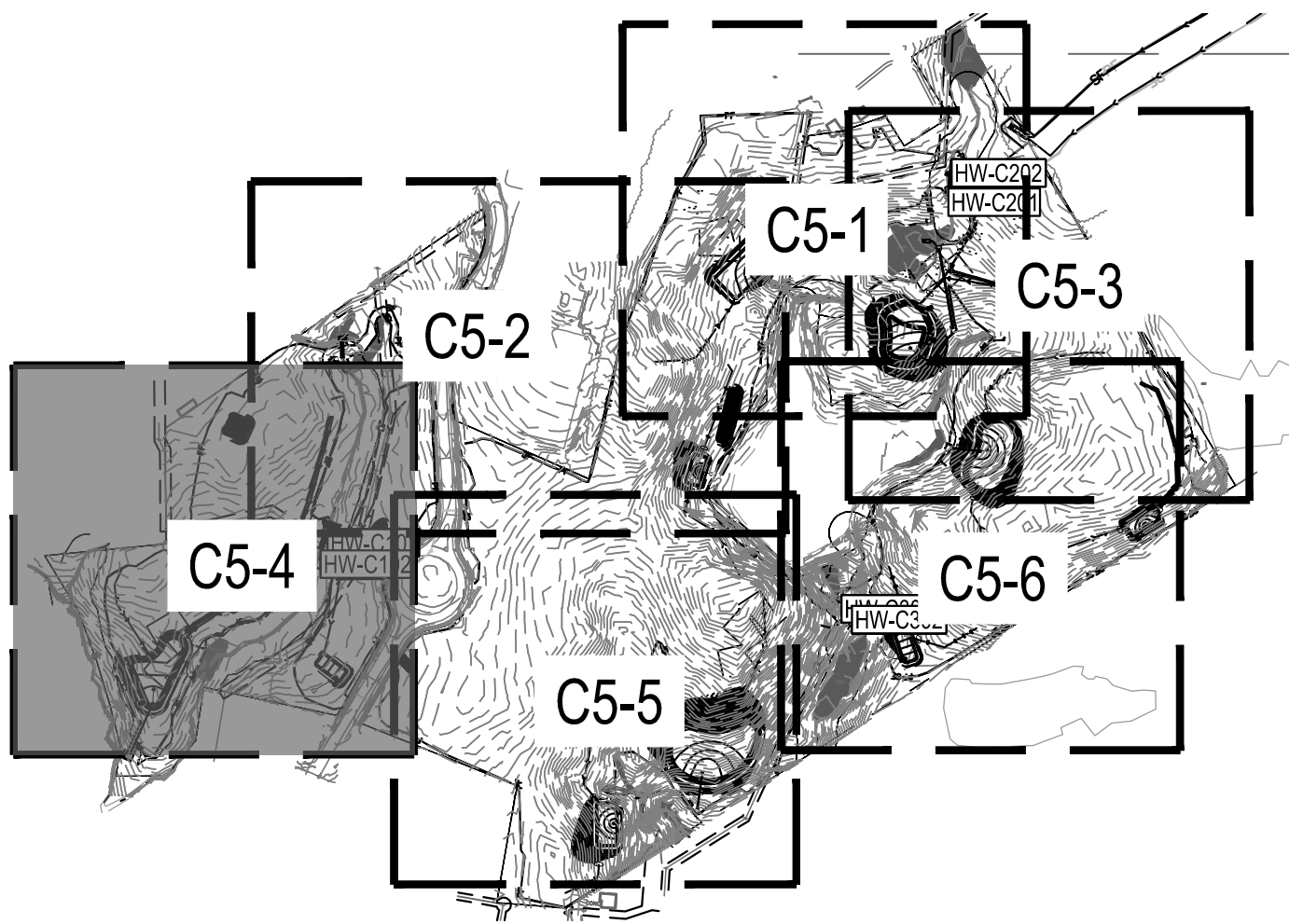
MAX VIII, LLC
36 PG 1235
3 PG 1030
758785571
GC-CZ
MINIWHSE

STORAGE MAX II, LLC
DB 11710 PG 2072
BM 2005 PG 2354
PIN# 1758787576
ZONE: GC-CZ
USE: MINIWHSE



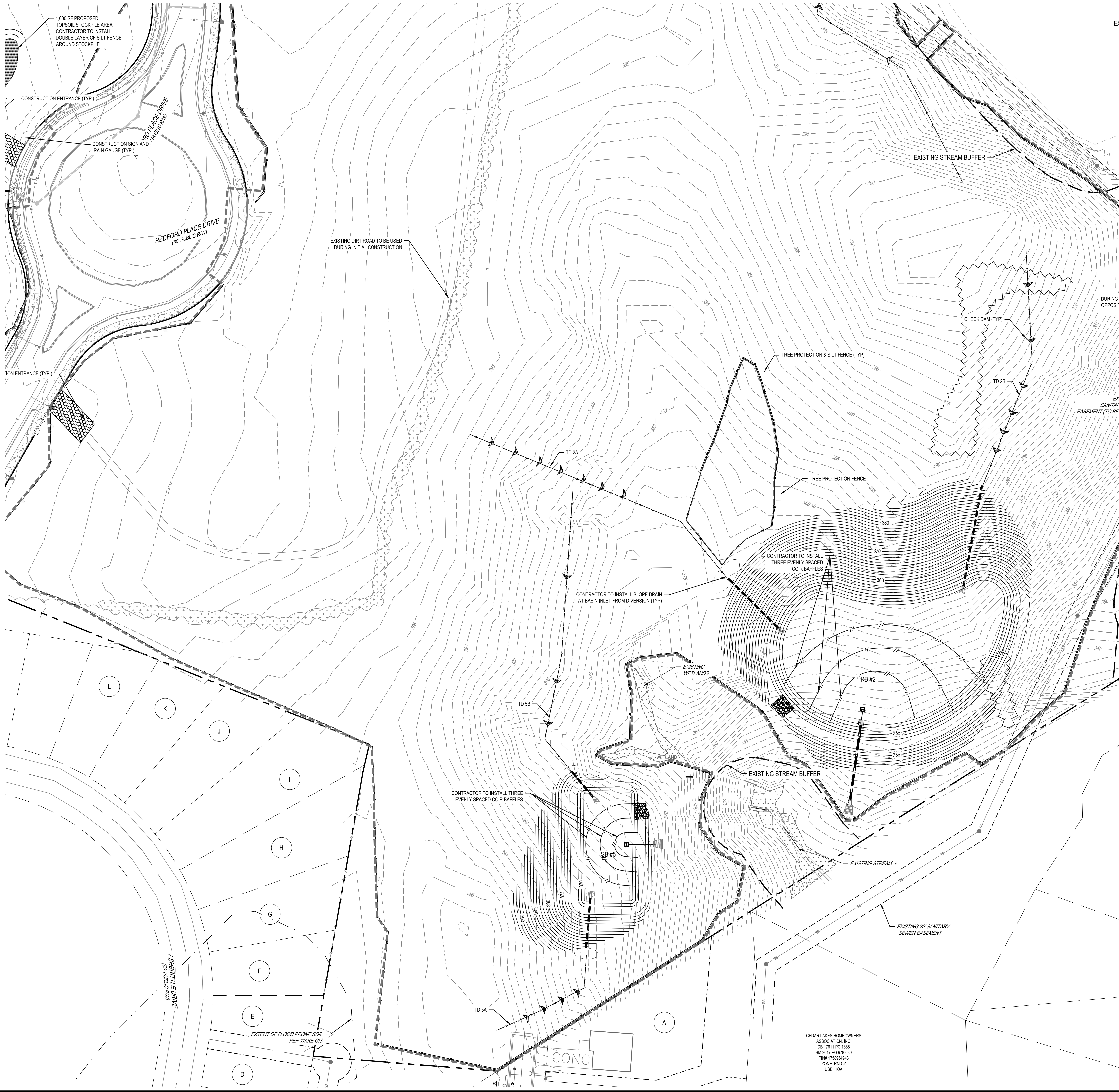
EROSION CONTROL LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- DIRECTION OF OVERLAND FLOW
- DIRECTION OF OVERLAND FLOW
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S150BN)
- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH OR BERM
- TEMP SILT FENCE WITH OUTLET
- TEMP TREE PROTECTION FENCE
- CHECK DAM
- SEDIMENTATION CHAMBER BERM
- SLOPE DRAIN WITH RIP-RAP APRON
- TEMPORARY RISER SKIMMER SEDIMENT BASIN
- PIPE INLET PROTECTION
- INLET PROTECTION
- EXCAVATED INLET PROTECTION

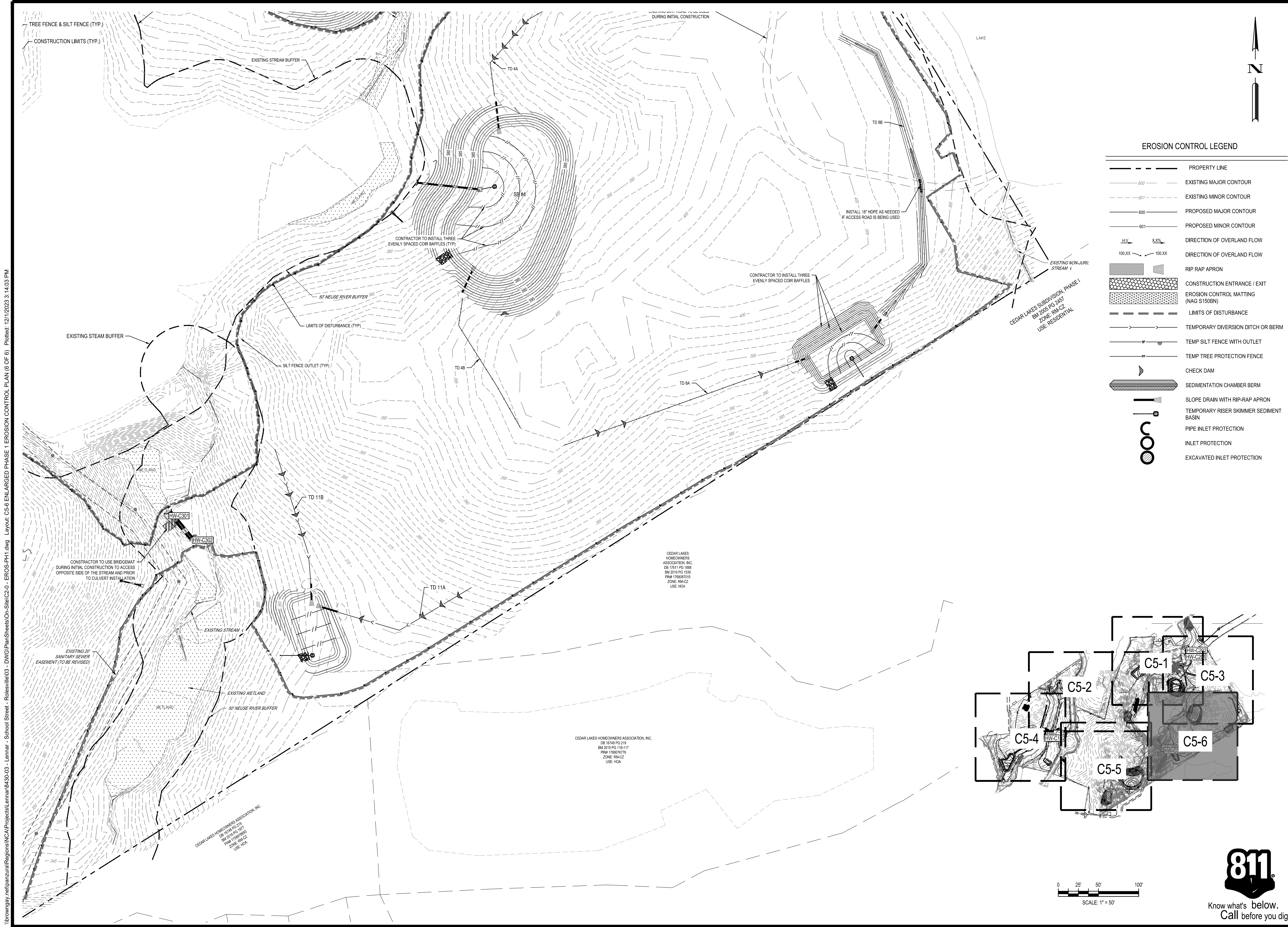


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		10/02/2023	PER TOWN OF ROLESVILLE COMMENT
		08/01/2023	PER TOWN OF ROLESVILLE COMMENT
	REV	06/01/2023	INITIAL SUBMITTAL
DESIGNED BY:		DF/CD	
DRAWN BY:		DF/JWM	
REVIEWED BY:		DF	
 5440 WADE PARK BLVD, SUITE 102 RALEIGH NC 27607 WWW.BCEINC.COM NC LICENSE #C-4397			
LENNAR CORPORAION 1100 PERMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560			
PARKER RIDGE 82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571			
ENLARGED PHASE 1 EROSION CONTROL PLAN (4 OF 6)			
 NOT FOR CONSTRUCTION FILE NUMBER: 8430-03 DATE: 11/21/2023			
C5-4			

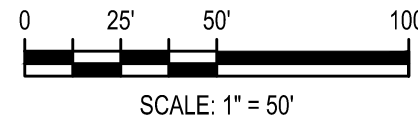
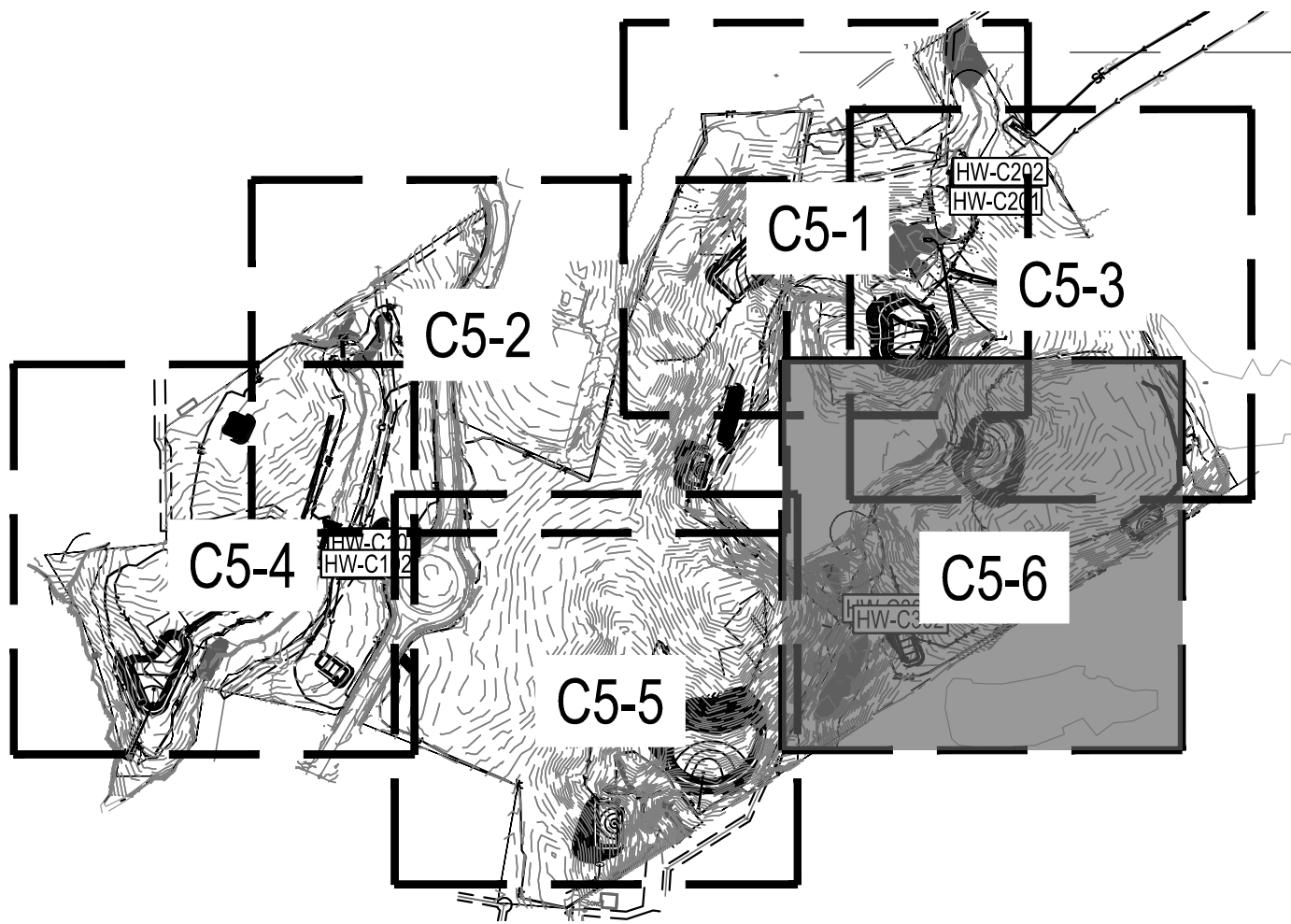
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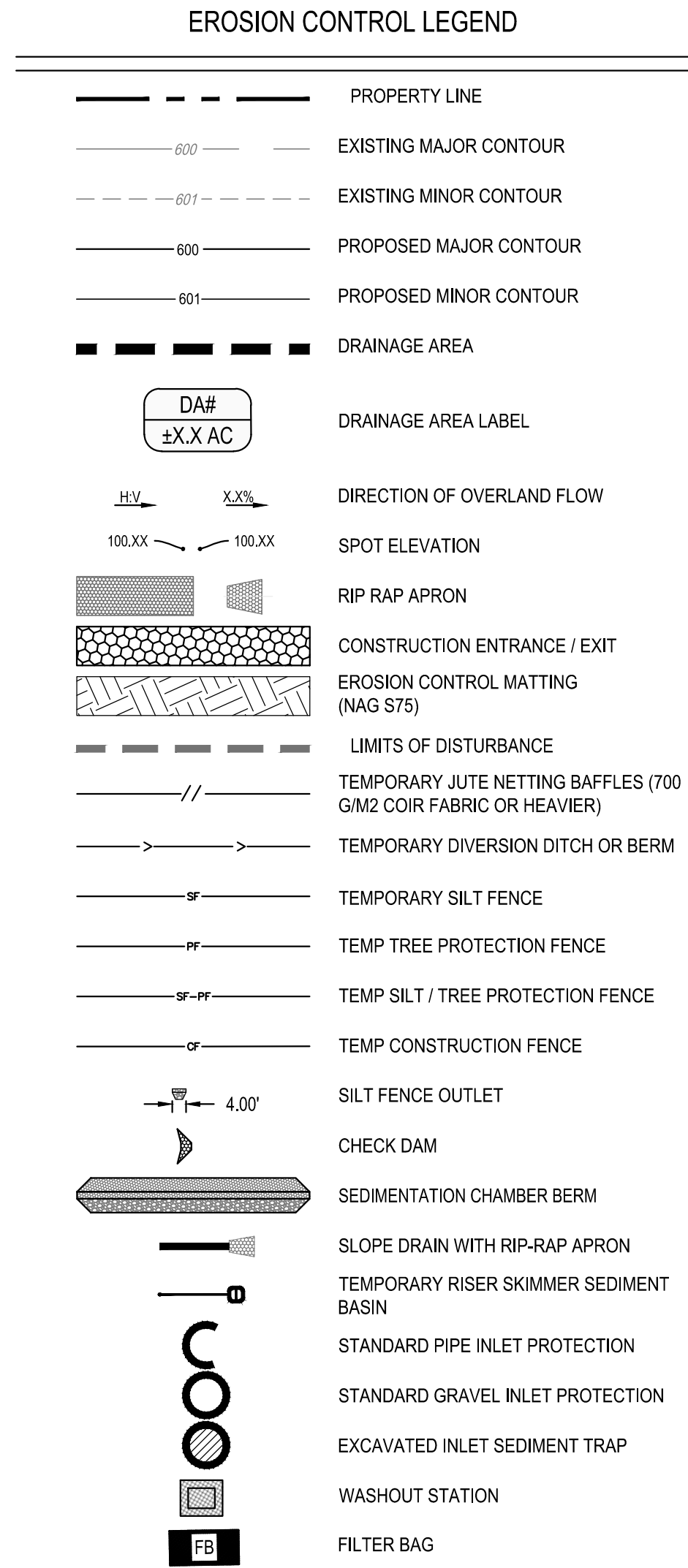
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EROSION CONTROL LEGEND	
	PROPERTY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	DIRECTION OF OVERLAND FLOW
	DIRECTION OF OVERLAND FLOW
	RIP RAP APRON
	CONSTRUCTION ENTRANCE / EXIT
	EROSION CONTROL MATTING (NAG S150BN)
	LIMITS OF DISTURBANCE
	TEMPORARY DIVERSION DITCH OR BERM
	TEMP SILT FENCE WITH OUTLET
	TEMP TREE PROTECTION FENCE
	CHECK DAM
	SEDIMENTATION CHAMBER BERM
	SLOPE DRAIN WITH RIP-RAP APRON
	TEMPORARY RISER SKIMMER SEDIMENT BASIN
	PIPE INLET PROTECTION
	INLET PROTECTION
	EXCAVATED INLET PROTECTION



		11/21/2023	PER TOWN OF ROLESVILLE COMMENT
		10/02/2023	PER TOWN OF ROLESVILLE COMMENT
		08/01/2023	PER TOWN OF ROLESVILLE COMMENT
		06/01/2023	INITIAL SUBMITTAL
DESIGNED BY:	DF/CD		
DRAWN BY:	DF/JWM		
REVIEWED BY:	DF		
5440 WADE PARK BLVD, SUITE 102 RALEIGH NC 27607 WWW.BCEINC.COM NC LICENSE #C-4397			
LENNAR CORPORAION 1100 PERMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560			
PARKER RIDGE 82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571			
ENLARGED PHASE 1 EROSION CONTROL PLAN (6 OF 6)			
NOT FOR CONSTRUCTION			
FILE NUMBER: 8430-03			
DATE: 11/21/2023			
C5-6			



1. INSTALL STORM DRAINAGE SYSTEM AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS, OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. INSTALL ENERGY DISSIPATORS UPON COMPLETION
2. CLEAR AND GRUB REMAINDER OF SITE TO BE DISTURBED
3. CONTINUE GRADING ACTIVITIES AND REROUTE DIVERSIONS TO MAINTAIN POSITIVE FLOW USING EARTHEN BERMS AS NECESSARY TO BRING SITE TO FINAL GRADE
4. MAINTAIN DEVICES PER NOTES ON C0-1. GRAVEL CONSTRUCTION ENTRANCES AND OTHER MEASURES SHALL BE PROPERLY MAINTAINED TO PREVENT SEDIMENT FROM ENTERING THE STREET.
5. SKIMMER BASINS SHALL REMAIN UNTIL THEY ARE APPROVED TO BE REMOVED. SILT BAGS SHALL BE USED TO DEWATER THE BASIN DURING THE CONVERSION.
6. ONCE THE STREETS HAVE BEEN PAVED, CURB INLET PROTECTION DEVICES SHALL BE CONVERTED TO STANDARD GRAVEL BAG CURB INLET PROTECTION.
7. ONCE THE SITE IS STABILIZED, CONTACT THE ENVIRONMENTAL CONSULTANT FOR INSPECTION AND APPROVAL TO REMOVE DEVICES.
8. CLEAN OUT SKIMMER BASINS WITH THE USE OF SILT BAGS, CUT AND GRADE SCM TO FINAL ELEVATIONS AND SEED IMMEDIATELY.
9. CONSTRUCTION ENTRANCES SHALL BE MAINTAINED WEEKLY AND AFTER RAIN EVENTS SO THAT STREETS REMAIN CLEAN. AFTER PAVING HAS OCCURED, THE CONTRACTOR SHALL KEEP STREETS FREE OF SEDIMENT.
10. SCM CERTIFICATIONS AND AS-BUILT PLANS MUST BE PROVIDED TO THE STORMWATER CONTROL INSPECTOR FOR REVIEW 7 DAYS PRIOR TO FINAL INSPECTION. CERTIFICATIONS AND AS-BUILT PLANS MUST BE ACCEPTED PRIOR TO APPROVAL OF FINAL INSPECTION.

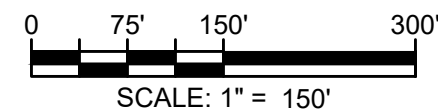
SECTION E: GROUND STABILIZATION			
Site Area Description	Required Ground Stabilization Timeframes		Timeframe variations
	Stabilize within this many calendar days after ceasing land disturbance		
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7		None
(b) High Quality Water (HQW) Zones	7		None
(c) Slopes steeper than 3:1	7		If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(d) Slopes 3:1 to 4:1	14		-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope
(e) Areas with slopes flatter than 4:1	14		-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

Permanent Diversion Summary

PD	DA	C	I	Q (25)	Bottom W (ft)	Side Slopes	V (fps)	Normal D	Normal D	Depth Req	Shear Stress	Liner
	(ac)		(in/hr)	(ft ³ /sec)		(H:1V)		(in)	(ft)	(ft)	(lb/ft ²)	
1	0.226	0.55	7.98	0.99	2	3	2.21	2.1	0.18	1	0.4	NAG S75BN
2	0.516	0.65	7.98	2.68	2	3	2.1	4.5	0.38	1	0.35	NAG S75BN
3	0.551	0.65	7.98	2.86	2	3	2.51	4.4	0.37	1	0.49	NAG S75BN
4	0.443	0.65	7.98	2.30	2	3	3.04	3.2	0.27	1	0.85	NAG S75BN
5	0.582	0.65	7.98	3.02	2	3	2.52	4.6	0.38	1	0.47	NAG S75BN

TOTAL DISTURBED AREA
±62.3 ACRES



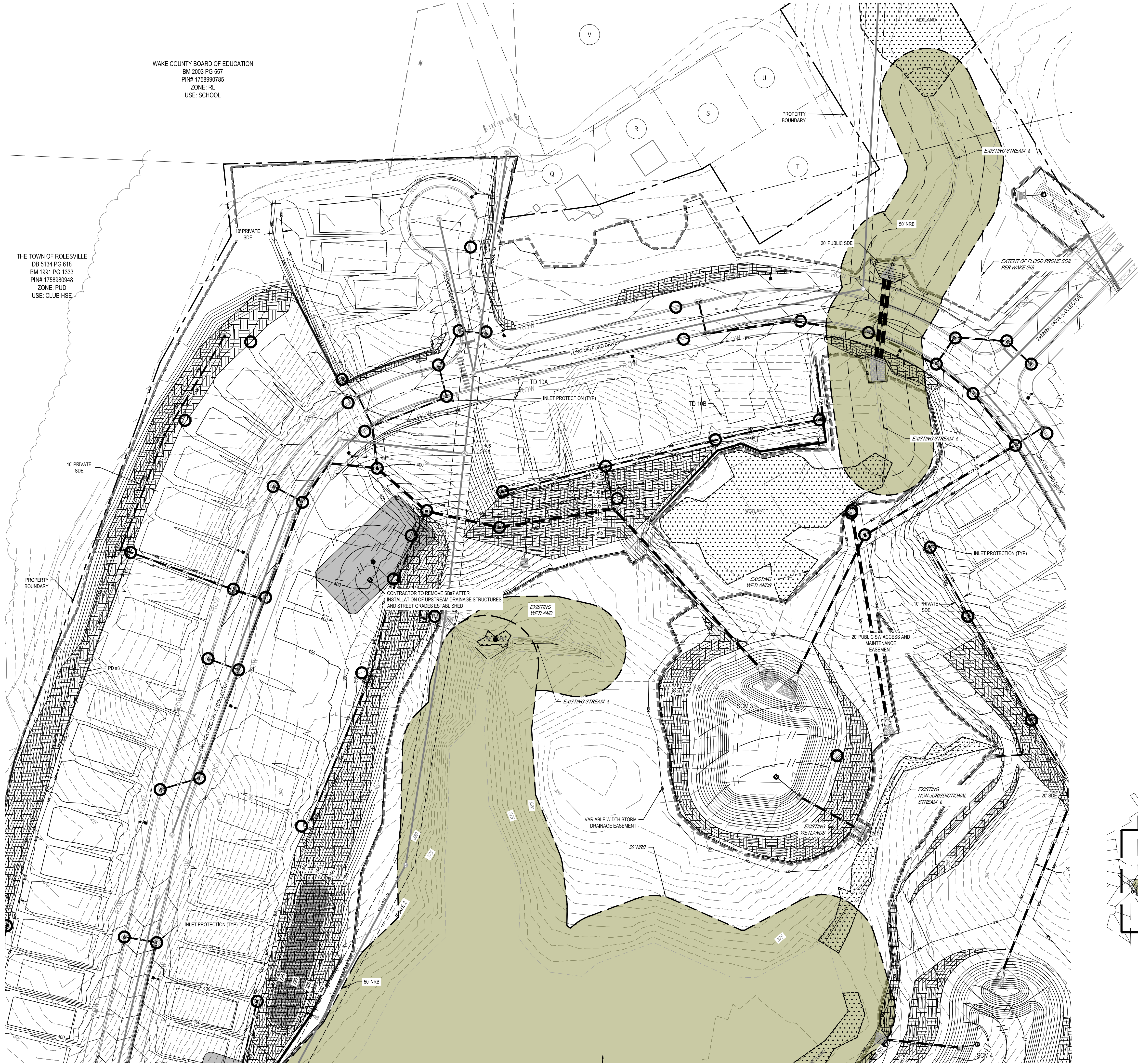
Know what's below.
Call before you dig.

11/21/2023	PER TOWN OF ROLESVILLE COMMENT	10/02/2023	PER TOWN OF ROLESVILLE COMMENT	08/01/2023	PER TOWN OF ROLESVILLE COMMENT	06/01/2023	INITIAL SUBMITTAL
DESIGNED BY:	DF/CD	DRAWN BY:	DF/JWM	REVIEWED BY:	DF		
BCE 5440 WADE PARK BLVD, SUITE 102 RALEIGH NC 27607 WWW.BCEINC.COM NC LICENSE #C-4397							
LENNAR CORPORAION 1100 PERIMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560							
PARKER RIDGE 82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571							
OVERALL PHASE 2 EROSION CONTROL PLAN							
FILE NUMBER: 8430-03							
DATE: 11/21/2023							
C5-7							

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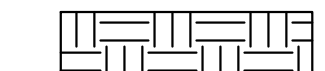
WAKE COUNTY BOARD OF EDUCATION
BM 2003 PG 557
PIN# 175890785
ZONE: RL
USE: SCHOOL

THE TOWN OF ROLESVILLE
DB 5134 PG 618
BM 1991 PG 1333
PIN# 1758980948
ZONE: PUD
USE: CLUB HSE



SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	Timeframe variations
	Stabilize within this many calendar days after ceasing land disturbance	
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HGW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed 7 days for slopes greater than 50' in length and with slopes steeper than 4:1
(d) Slopes 3:1 to 4:1	14	7 days for perimeter dikes, swales, ditches, perimeter slopes and HGW Zones 10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	7 days for perimeter dikes, swales, ditches, perimeter slopes and HGW Zones 10 days for Falls Lake Watershed unless there is zero slope

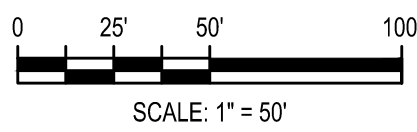
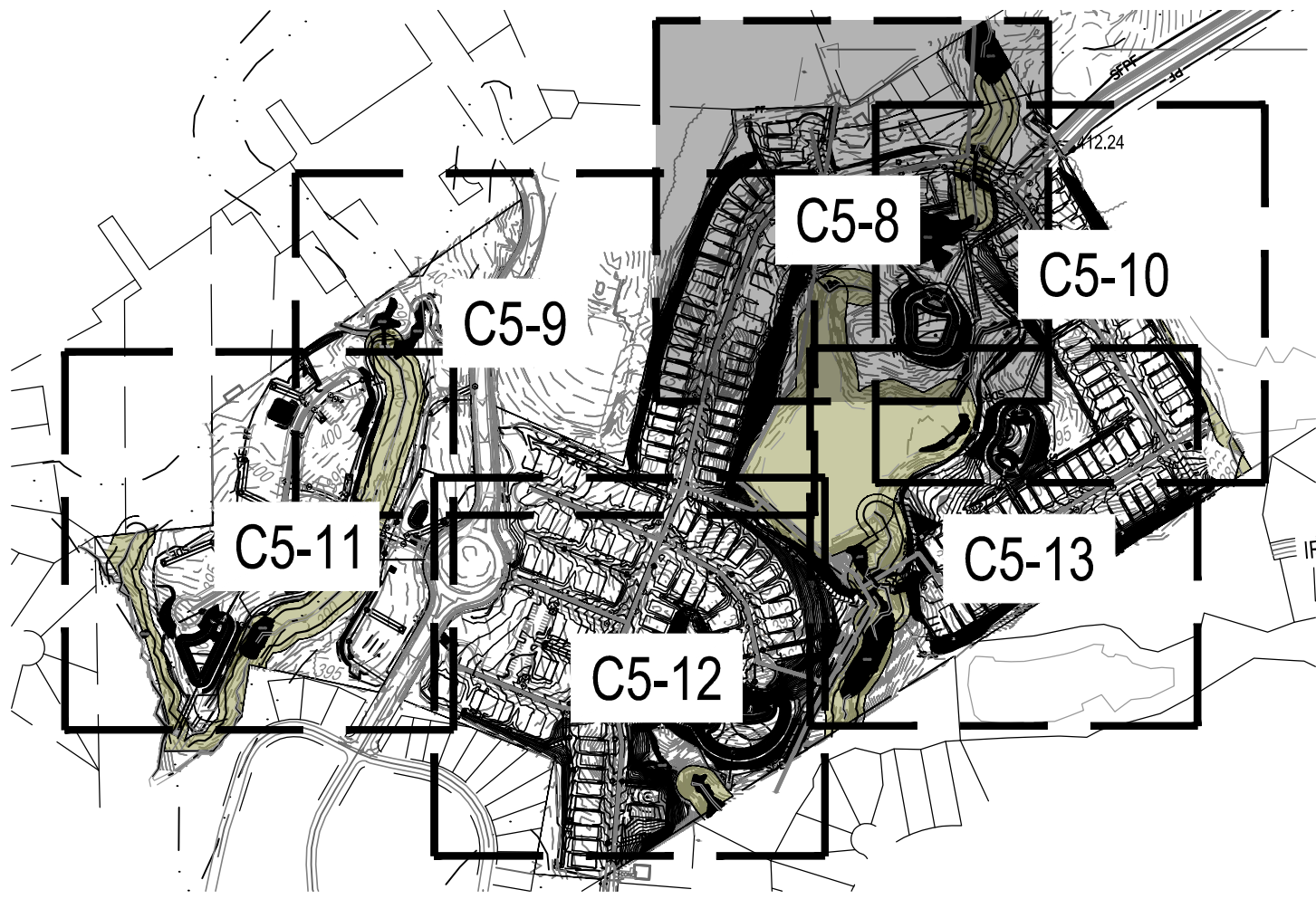
Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.



HATCHED SLOPES ARE 3:1 OR GREATER AND REQUIRE STABILIZATION PER TABLE AT LEFT

EROSION CONTROL LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- DRAINAGE AREA
- DRAINAGE AREA LABEL
- DIRECTION OF OVERLAND FLOW
- SPOT ELEVATION
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S75)
- LIMITS OF DISTURBANCE
- TEMPORARY JUTE NETTING BAFFLES (700 G/M2 COIR FABRIC OR HEAVIER)
- TEMPORARY DIVERSION DITCH OR BERM
- TEMPORARY SILT FENCE
- TEMP TREE PROTECTION FENCE
- TEMP SILT / TREE PROTECTION FENCE
- TEMP CONSTRUCTION FENCE
- SILT FENCE OUTLET
- CHECK DAM
- SEDIMENTATION CHAMBER BERM
- SLOPE DRAIN WITH RIP-RAP APRON
- TEMPORARY RISER SKIMMER SEDIMENT BASIN
- STANDARD PIPE INLET PROTECTION
- STANDARD GRAVEL INLET PROTECTION
- EXCAVATED INLET SEDIMENT TRAP
- WASHOUT STATION
- FILTER BAG



11/21/2023
10/02/2023
08/01/2023
06/01/2023

PER TOWN OF ROLESVILLE COMMENT
PER TOWN OF ROLESVILLE COMMENT
PER TOWN OF ROLESVILLE COMMENT
INITIAL SUBMITTAL

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

BCE

5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BCEINC.COM
NC LICENSE #C-4397

LENNAR
CORPORAION

1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE

82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED PHASE 2
EROSION CONTROL
PLAN (1 OF 6)

NOT FOR
CONSTRUCTION

FILE NUMBER:
8430-03

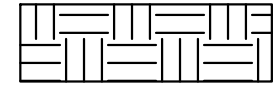
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C5-8

\\browgway.net\panzura\Regions\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C2-1 - EROS-PH2.dwg Layout: C5-9 ENLARGED PHASE 2 EROSION CONTROL PLAN (2 OF 6) Plotted: 12/1/2023 3:15:28 PM

SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	
	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (H2O) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	7 days for slopes greater than 50' in length and with slopes steeper than 4:1 7 days for perimeter dikes, swales, ditches, perimeter slopes and H2O Zones 10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	7 days for perimeter dikes, swales, ditches, perimeter slopes and H2O Zones 10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.



HATCHED SLOPES ARE 3:1 OR GREATER AND REQUIRE STABILIZATION PER TABLE ABOVE

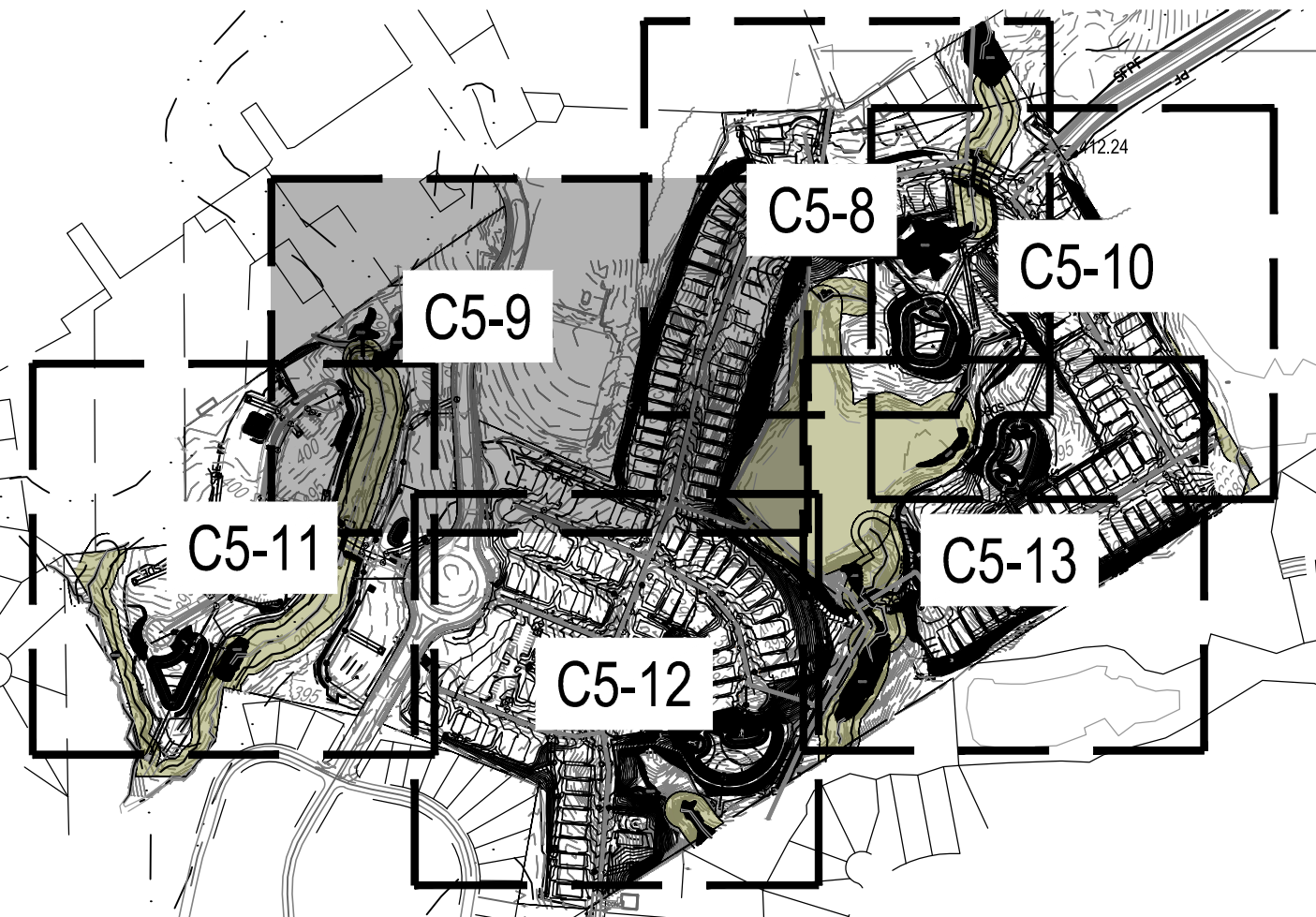
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DB 16331 PG 976
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PIN# 1758895219
ZONE: R&PUD
USE: NBHD S/C

REDFORD PLAZA, LLC
DB 16331 PG 976
BM 2006 PG 1022
PIN# 1758882842
ZONE: R&PUD
USE: BUSINESS

EROSION CONTROL LEGEND

	PROPERTY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	DRAINAGE AREA
	DRAINAGE AREA LABEL
	DIRECTION OF OVERLAND FLOW
	SPOT ELEVATION
	RIP RAP APRON
	CONSTRUCTION ENTRANCE / EXIT
	EROSION CONTROL MATTING (NAG S75)
	LIMITS OF DISTURBANCE

	TEMPORARY JUTE NETTING BAFFLES (700 G/M2 COIR FABRIC OR HEAVIER)
	TEMPORARY DIVERSION DITCH OR BERM
	TEMPORARY SILT FENCE
	TEMP TREE PROTECTION FENCE
	TEMP SILT / TREE PROTECTION FENCE
	TEMP CONSTRUCTION FENCE
	SILT FENCE OUTLET
	CHECK DAM
	SEDIMENTATION CHAMBER BERM
	SLOPE DRAIN WITH RIP-RAP APRON
	TEMPORARY RISER SKIMMER SEDIMENT BASIN
	STANDARD PIPE INLET PROTECTION
	STANDARD GRAVEL INLET PROTECTION
	EXCAVATED INLET SEDIMENT TRAP
	WASHOUT STATION
	FILTER BAG



11/21/2023 PER TOWN OF ROLESVILLE COMMENT

10/02/2023 PER TOWN OF ROLESVILLE COMMENT

08/01/2023 PER TOWN OF ROLESVILLE COMMENT

06/01/2023 INITIAL SUBMITTAL

DESIGNED BY: DFC/CD

DRAWN BY: DFC/JWM

REVIEWED BY: DFC

BCE

5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BCEINC.COM
NC LICENSE #C-4397

LENNAR
CORPORAION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED PHASE 2
EROSION CONTROL
PLAN (2 OF 6)

NOT FOR CONSTRUCTION

FILE NUMBER:
8430-03

DATE: 11/21/2023

C5-9



PATSY V. YOUNG ET AL.
WF 20-E-2569
DB 9301 PG 1320
BM 1935 PG 60
PIN# 1768192148
ZONE: RL
USE: AGRICULTURE

SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	
	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	- 7 days for slopes greater than 50' in length and with slopes steeper than 4:1 - 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones - 10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	- 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones - 10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

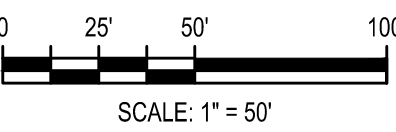
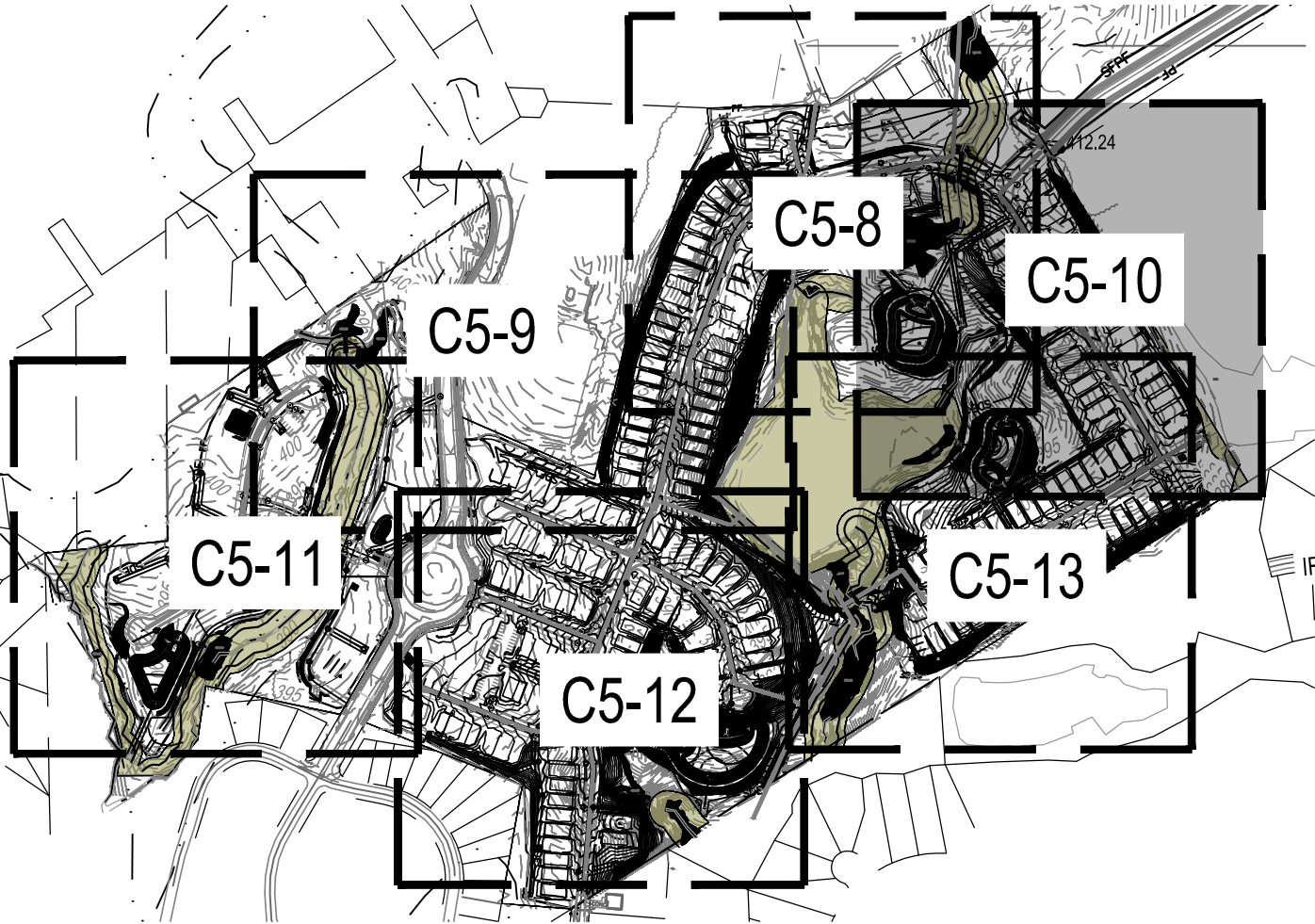


HATCHED SLOPES ARE 3:1 OR GREATER AND REQUIRE STABILIZATION PER TABLE AT LEFT



EROSION CONTROL LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- DRAINAGE AREA
- DRAINAGE AREA LABEL
- DIRECTION OF OVERLAND FLOW
- SPOT ELEVATION
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S75)
- LIMITS OF DISTURBANCE
- TEMPORARY JUTE NETTING BAFFLES (700 GM2 COIR FABRIC OR HEAVIER)
- TEMPORARY DIVERSION DITCH OR BERM
- TEMPORARY SILT FENCE
- TEMP TREE PROTECTION FENCE
- TEMP SILT / TREE PROTECTION FENCE
- TEMP CONSTRUCTION FENCE
- SILT FENCE OUTLET
- CHECK DAM
- SEDIMENTATION CHAMBER BERM
- SLOPE DRAIN WITH RIP-RAP APRON
- TEMPORARY RISER SKIMMER SEDIMENT BASIN
- STANDARD PIPE INLET PROTECTION
- STANDARD GRAVEL INLET PROTECTION
- EXCAVATED INLET SEDIMENT TRAP
- WASHOUT STATION
- FILTER BAG



Know what's below.
Call before you dig.

11/21/2023 PER TOWN OF ROLESVILLE COMMENT

10/02/2023 PER TOWN OF ROLESVILLE COMMENT

08/01/2023 PER TOWN OF ROLESVILLE COMMENT

06/01/2023 INITIAL SUBMITTAL

DESIGNED BY: DF/CD

DRAWN BY: DF/JWM

REVIEWED BY: DF

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ENLARGED PHASE 2

EROSION CONTROL

PLAN (3 OF 6)

NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03

DATE: 11/21/2023

811

C5-10

MAX VIII, LLC
36 PG 1235
3 PG 1030
758785571
GC-CZ
MINIWHSE

STORAGE MAX II, LLC
DB 11710 PG 2072
BM 2005 PG 2354
PIN# 1758787576
ZONE: GC-CZ
USE: MINIWHSE



SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	
	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQPW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed 7 days for slopes greater than 50' in length and with slopes steeper than 4:1
(d) Slopes 3:1 to 4:1	14	7 days for perimeter dikes, swales, ditches, perimeter slopes and HQPW Zones 10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	7 days for perimeter dikes, swales, ditches, perimeter slopes and HQPW Zones 10 days for Falls Lake Watershed unless there is zero slope

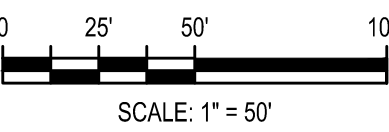
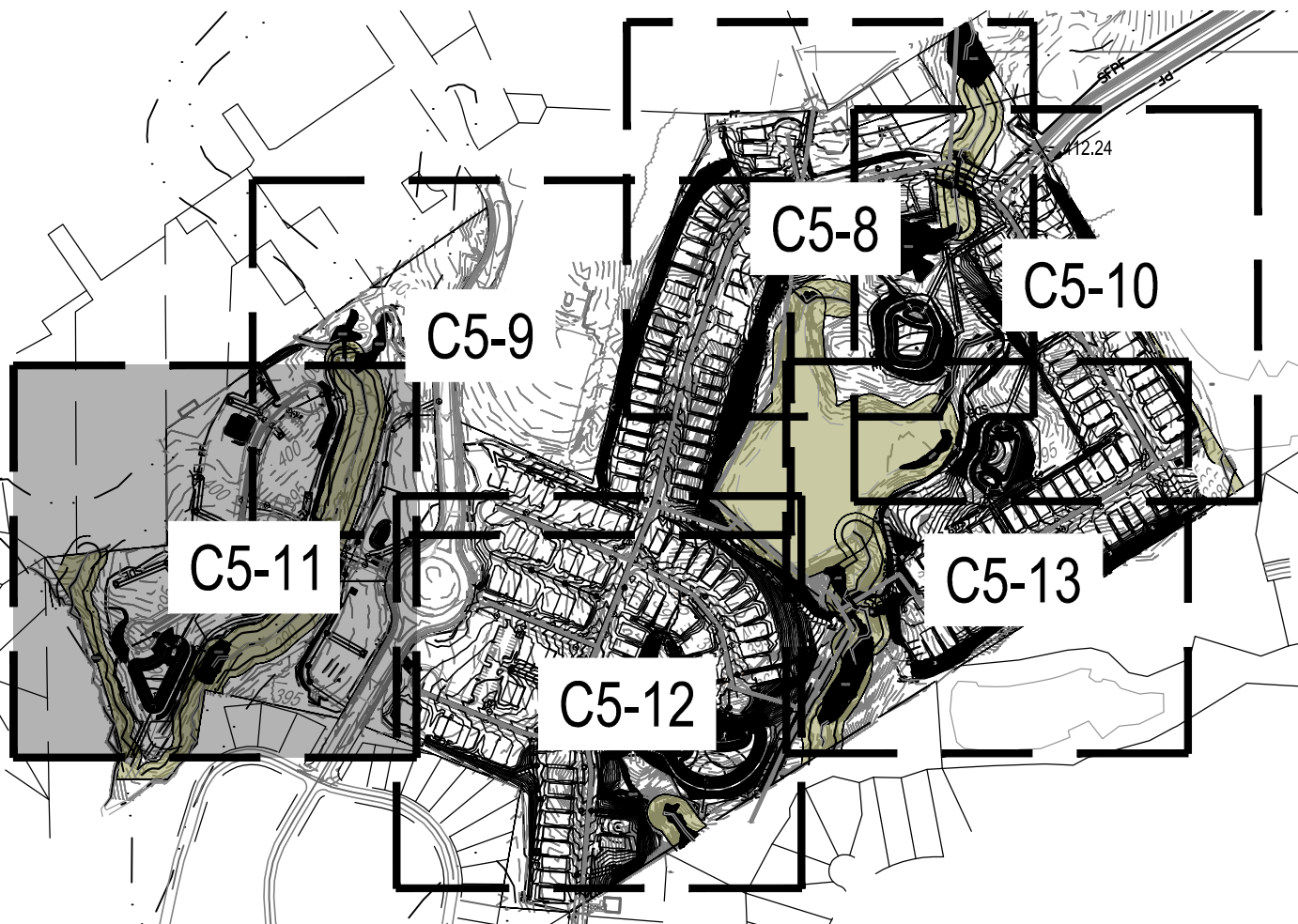
Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.



HATCHED SLOPES ARE 3:1 OR GREATER AND REQUIRE STABILIZATION PER TABLE AT LEFT

EROSION CONTROL LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- DRAINAGE AREA
- DRAINAGE AREA LABEL
- DIRECTION OF OVERLAND FLOW
- SPOT ELEVATION
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
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- LIMITS OF DISTURBANCE
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- STANDARD PIPE INLET PROTECTION
- STANDARD GRAVEL INLET PROTECTION
- EXCAVATED INLET SEDIMENT TRAP
- WASHOUT STATION
- FILTER BAG



SCALE: 1" = 50'



Know what's below.
Call before you dig.

11/21/2023
10/02/2023
08/01/2023
06/01/2023
REV

PER TOWN OF ROLESVILLE COMMENT
PER TOWN OF ROLESVILLE COMMENT
PER TOWN OF ROLESVILLE COMMENT
INITIAL SUBMITTAL

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

BCE

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WWW.BCEINC.COM
NC LICENSE #C-4397

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PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED PHASE 2
EROSION CONTROL
PLAN (4 OF 6)

PROFESSIONAL
ENGINEER
FEDRA M. FERRIS
12-01-23

NOT FOR
CONSTRUCTION

FILE NUMBER:
8430-03
DATE: 11/21/2023

C5-11



SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	
	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (H2W) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	7 days for slopes greater than 50' in length and with slopes steeper than 4:1
(e) Areas with slopes flatter than 4:1	14	7 days for perimeter dikes, swales, ditches, perimeter slopes and H2W Zones

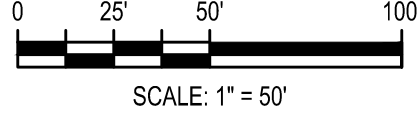
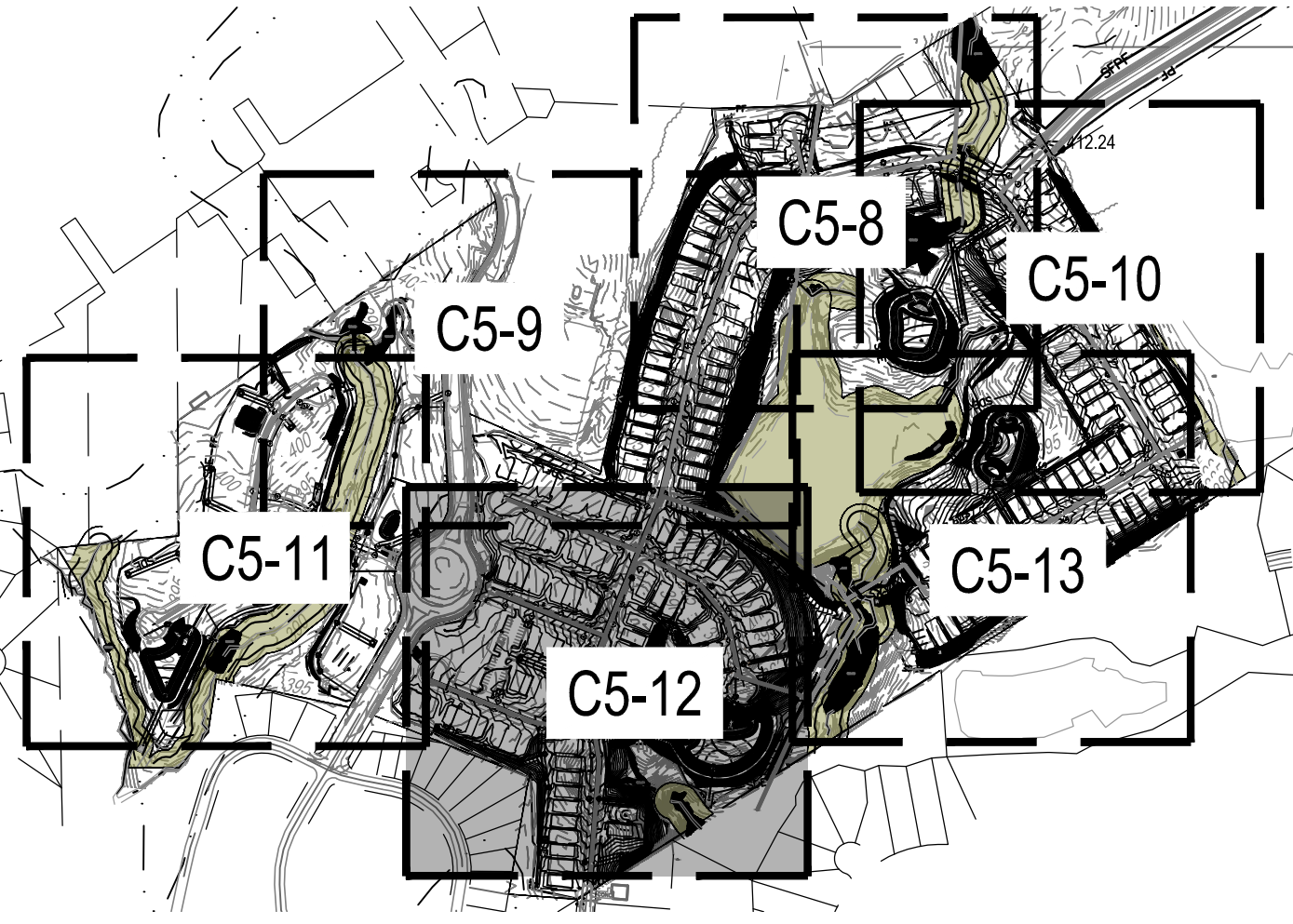
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HATCHED SLOPES ARE 3:1 OR GREATER AND REQUIRE STABILIZATION PER TABLE AT LEFT

EROSION CONTROL LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- DRAINAGE AREA
- DRAINAGE AREA LABEL
- DIRECTION OF OVERLAND FLOW
- SPOT ELEVATION
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S75)
- LIMITS OF DISTURBANCE
- TEMPORARY JUTE NETTING BAFFLES (700 GM2 COIR FABRIC OR HEAVIER)
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- SILT FENCE OUTLET
- CHECK DAM
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- SLOPE DRAIN WITH RIP-RAP APRON
- TEMPORARY RISER SKIMMER SEDIMENT BASIN
- STANDARD PIPE INLET PROTECTION
- STANDARD GRAVEL INLET PROTECTION
- EXCAVATED INLET SEDIMENT TRAP
- WASHOUT STATION
- FILTER BAG



SCALE: 1" = 50'



Know what's below.
Call before you dig.

11/12/2023 PER TOWN OF ROLESVILLE COMMENT

10/02/2023 PER TOWN OF ROLESVILLE COMMENT

08/01/2023 PER TOWN OF ROLESVILLE COMMENT

06/01/2023 INITIAL SUBMITTAL

DESIGNED BY: DFI/CD

DRAWN BY: DFI/JWM

REVIEWED BY: DFI

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RALEIGH NC 27607
WWW.BCEINC.COM
NC LICENSE #C-4397

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PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED PHASE 2
EROSION CONTROL
PLAN (5 OF 6)

NOT FOR
CONSTRUCTION

FILE NUMBER:
8430-03

DATE: 11/21/2023

C5-12



SECTION E: GROUND STABILIZATION		
Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter ditches, swales, ditches, and post-tensioned slopes	7	None
(b) High Quality Water (HWQ) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed. 7 days for slopes greater than 50' in length and with slopes steeper than 4:1 10 days for perimeter ditches, swales, ditches, for Fails Lake and HWQ Zones 10 days for Fails Lake Watershed
(d) Slopes 3:1 to 4:1	14	7 days for perimeter ditches, swales, ditches, for Fails Lake and HWQ Zones 10 days for Fails Lake Watershed unless there is zero slope
(e) Areas with slopes flatter than 3:1	14	10 days for Fails Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

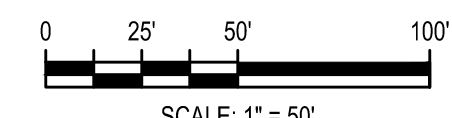
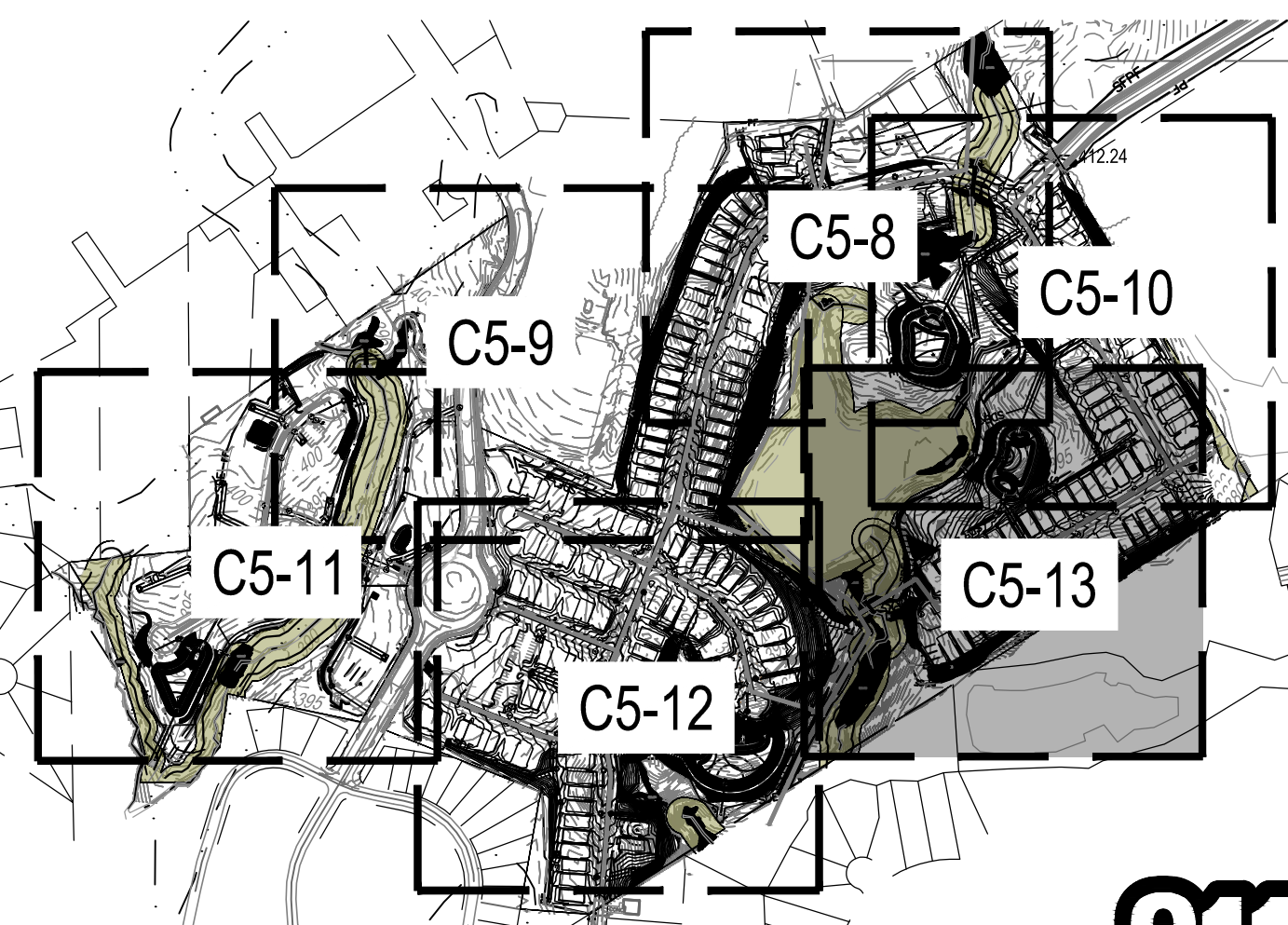


HATCHED SLOPES ARE 3:1 OR GREATER AND REQUIRE STABILIZATION PER TABLE AT LEFT



EROSION CONTROL LEGEND

	PROPERTY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	DRAINAGE AREA
	DRAINAGE AREA LABEL
	DIRECTION OF OVERLAND FLOW
	SPOT ELEVATION
	RIP RAP APRON
	CONSTRUCTION ENTRANCE / EXIT
	EROSION CONTROL MATTING (NAG S75)
	LIMITS OF DISTURBANCE
	TEMPORARY JUTE NETTING BAFFLES (700 G/MZ COIR FABRIC OR HEAVIER)
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	TEMPORARY SILT FENCE
	TEMP TREE PROTECTION FENCE
	TEMP SILT / TREE PROTECTION FENCE
	TEMP CONSTRUCTION FENCE
	SILT FENCE OUTLET
	CHECK DAM
	SEDIMENTATION CHAMBER BERM
	SLOPE DRAIN WITH RIP-RAP APRON
	TEMPORARY RISER SKIMMER SEDIMENT BASIN
	STANDARD PIPE INLET PROTECTION
	STANDARD GRAVEL INLET PROTECTION
	EXCAVATED INLET SEDIMENT TRAP
	WASHOUT STATION
	FILTER BAG



Know what's below.
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ENLARGED PHASE 2 EROSION CONTROL PLAN (6 OF 6)



NOT FOR
CONSTRUCTION

FILE NUMBER:
8430-03

DATE: 11/21/2023

C5-13

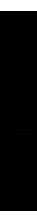
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PARKER RIDGE

82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571



5440 WARDEN DRIVE SUITE 102
ROEGH NC 27687
WWW.BCEINC.COM
NC LICENSE #C-4387



1121/2023 PER TOWN OF ROLESVILLE COMMENT

10/02/2023 PER TOWN OF ROLESVILLE COMMENT

08/01/2023 PER TOWN OF ROLESVILLE COMMENT

REV 05/01/2023 INITIAL SUBMITTAL

DESIGNED BY: 

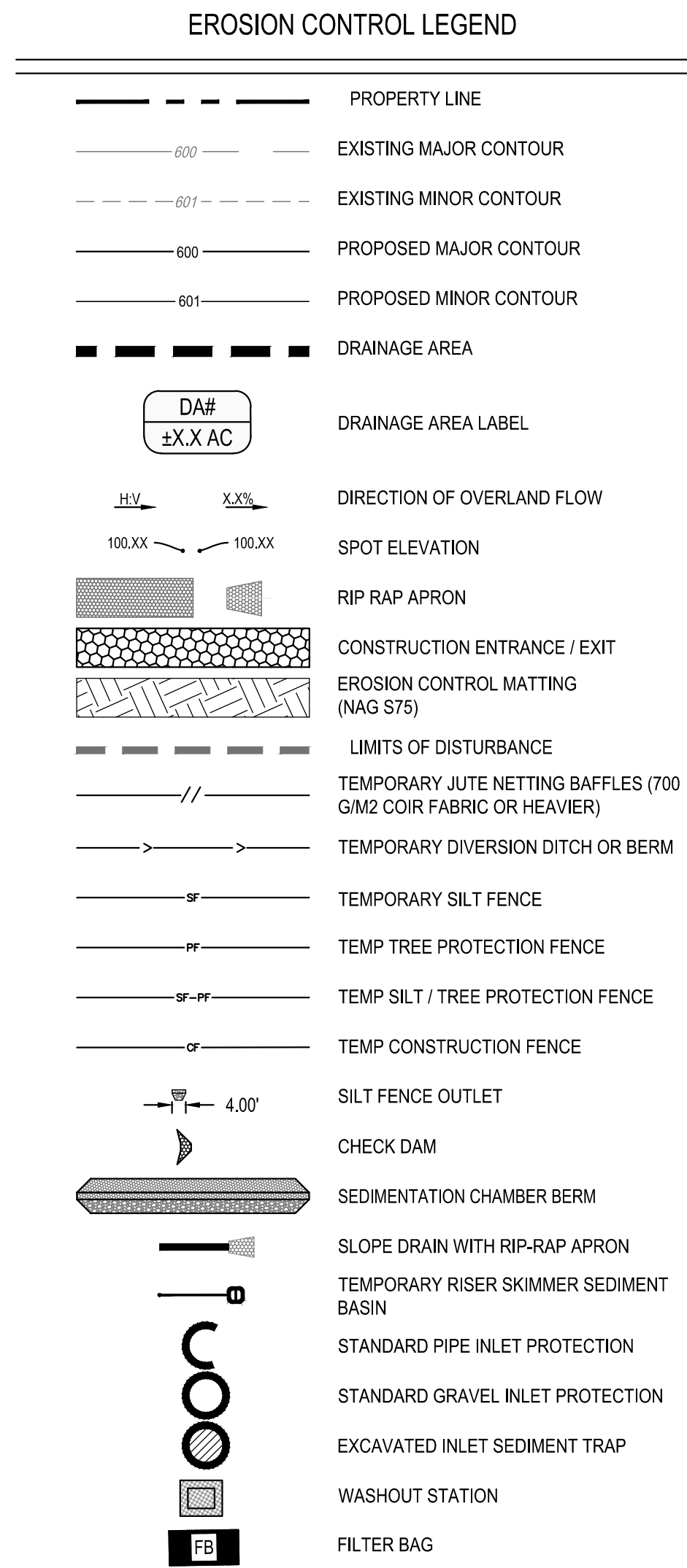
DRAWN BY: 

REVIEWED BY: 

DF/CD

DF/JWM

DF



1. INSTALL STORM DRAINAGE SYSTEM AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS, OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. INSTALL ENERGY DISSIPATORS UPON COMPLETION
2. CLEAR AND GRUB REMAINDER OF SITE TO BE DISTURBED
3. CONTINUE GRADING ACTIVITIES AND REROUTE DIVERSIONS TO MAINTAIN POSITIVE FLOW USING EARTHEN BERMS AS NECESSARY TO BRING SITE TO FINAL GRADE
4. MAINTAIN DEVICES PER NOTES ON C0-1. GRAVEL CONSTRUCTION ENTRANCES AND OTHER MEASURES SHALL BE PROPERLY MAINTAINED TO PREVENT SEDIMENT FROM ENTERING THE STREET.
5. SKIMMER BASINS SHALL REMAIN UNTIL THEY ARE APPROVED TO BE REMOVED. SILT BAGS SHALL BE USED TO DEWATER THE BASIN DURING THE CONVERSION.
6. ONCE THE STREETS HAVE BEEN PAVED, CURB INLET PROTECTION DEVICES SHALL BE CONVERTED TO STANDARD GRAVEL BAG CURB INLET PROTECTION.
7. ONCE THE SITE IS STABILIZED, CONTACT THE ENVIRONMENTAL CONSULTANT FOR INSPECTION AND APPROVAL TO REMOVE DEVICES.
8. CLEAN OUT SKIMMER BASINS WITH THE USE OF SILT BAGS, CUT AND GRADE SCM TO FINAL ELEVATIONS AND SEED IMMEDIATELY.
9. CONSTRUCTION ENTRANCES SHALL BE MAINTAINED WEEKLY AND AFTER RAIN EVENTS SO THAT STREETS REMAIN CLEAN. AFTER PAVING HAS OCCURED, THE CONTRACTOR SHALL KEEP STREETS FREE OF SEDIMENT.
10. SCM CERTIFICATIONS AND AS-BUILT PLANS MUST BE PROVIDED TO THE STORMWATER CONTROL INSPECTOR FOR REVIEW 7 DAYS PRIOR TO FINAL INSPECTION. CERTIFICATIONS AND AS-BUILT PLANS MUST BE ACCEPTED PRIOR TO APPROVAL OF FINAL INSPECTION.

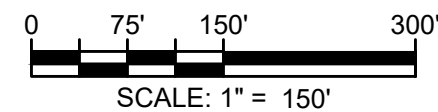
SECTION E: GROUND STABILIZATION			
Site Area Description	Required Ground Stabilization Timeframes		Timeframe variations
	Stabilize within this many calendar days after ceasing land disturbance		
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7		None
(b) High Quality Water (HQW) Zones	7		None
(c) Slopes steeper than 3:1	7		If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(d) Slopes 3:1 to 4:1	14		-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope
(e) Areas with slopes flatter than 4:1	14		-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

Permanent Diversion Summary

PD	DA	C	I	Q (25)	Bottom W (ft)	Side Slopes	V (fps)	Normal D	Normal D	Depth Req	Shear Stress	Liner
	(ac)		(in/hr)	(ft ³ /sec)		(H:1V)		(in)	(ft)	(ft)	(lb/ft ²)	
1	0.226	0.55	7.98	0.99	2	3	2.21	2.1	0.18	1	0.4	NAG S75BN
2	0.516	0.65	7.98	2.68	2	3	2.1	4.5	0.38	1	0.35	NAG S75BN
3	0.551	0.65	7.98	2.86	2	3	2.51	4.4	0.37	1	0.49	NAG S75BN
4	0.443	0.65	7.98	2.30	2	3	3.04	3.2	0.27	1	0.85	NAG S75BN
5	0.582	0.65	7.98	3.02	2	3	2.52	4.6	0.38	1	0.47	NAG S75BN

TOTAL DISTURBED AREA
±62.3 ACRES



11/21/2023	PER TOWN OF ROLESVILLE COMMENT
10/02/2023	PER TOWN OF ROLESVILLE COMMENT
08/01/2023	PER TOWN OF ROLESVILLE COMMENT
06/01/2023	INITIAL SUBMITTAL

DESIGNED BY:	DF/CD
DRAWN BY:	DF/JWM
REVIEWED BY:	DF

BCE
5440 WADE PARK BLVD, SUITE 102
RALEIGH NC 27607
WWW.BCEINC.COM
NC LICENSE #C-4397

LENNAR
CORPORAION
1100 PERIMETER PARK DRIVE, SUITE 112
MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

OVERALL PHASE 3 EROSION CONTROL PLAN

NOT FOR CONSTRUCTION

FILE NUMBER:
8430-03

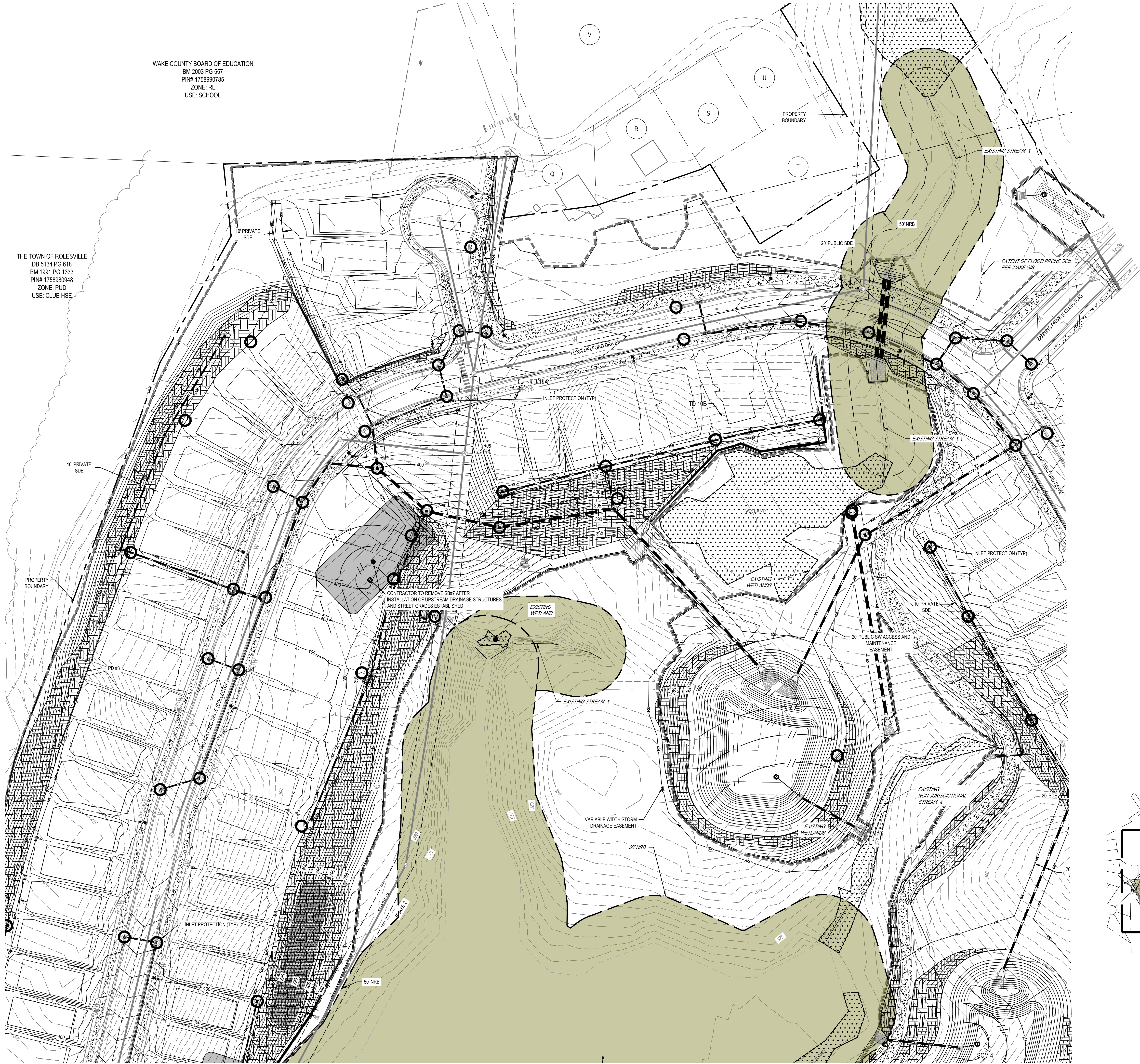
DATE: 11/21/2023

C5-14

\\browngay.net\panzura\Regions\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Erosion Control Plan (1 of 6) - EROSION CONTROL PLAN (1 OF 6) Plotted: 12/1/2023 3:21:09 PM

WAKE COUNTY BOARD OF EDUCATION
BM 2003 PG 557
PIN# 175890785
ZONE: RL
USE: SCHOOL

THE TOWN OF ROLESVILLE
DB 5134 PG 618
BM 1991 PG 1333
PIN# 1758980948
ZONE: PUD
USE: CLUB HSE



SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	
	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
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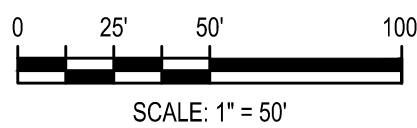
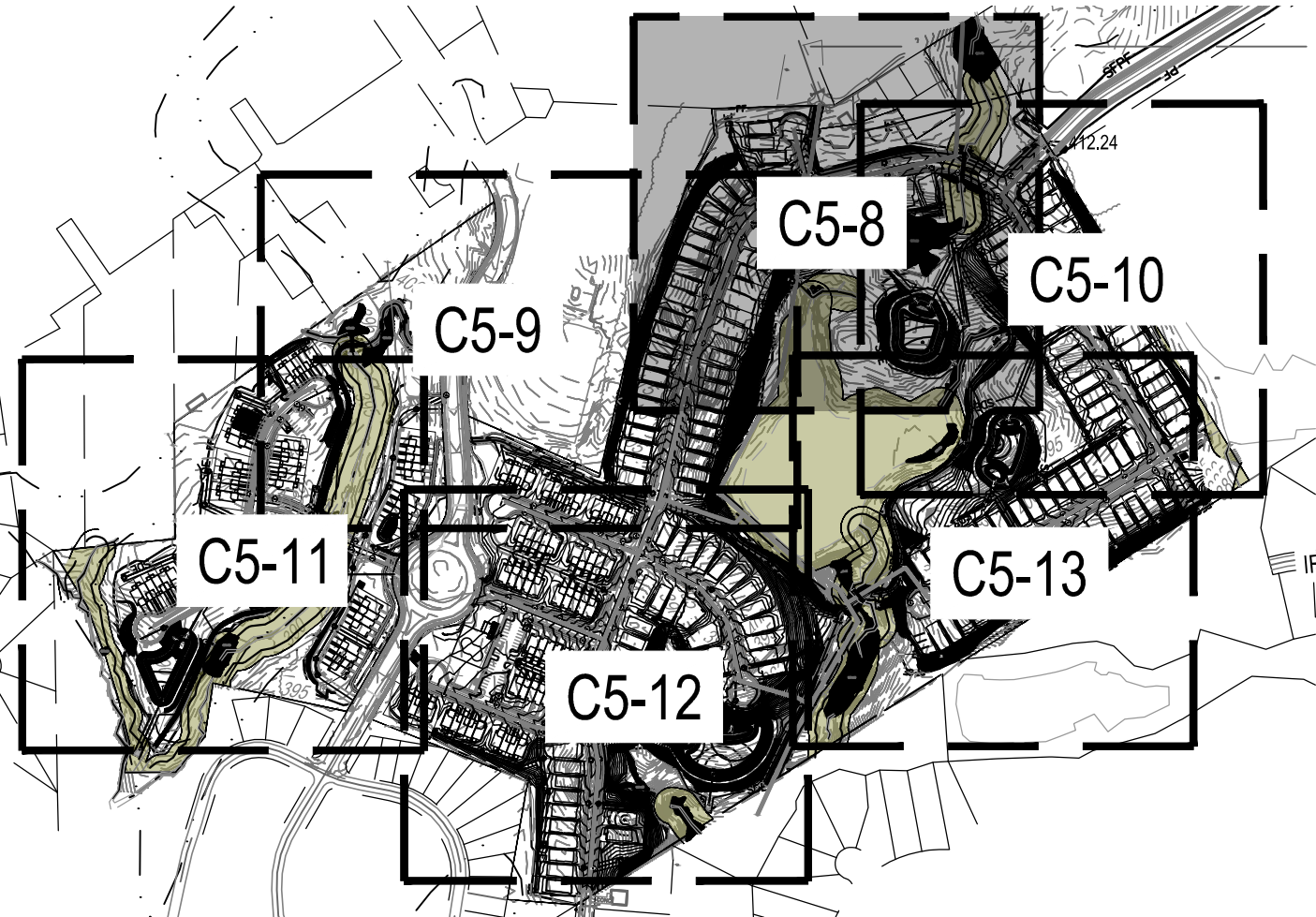
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HATCHED SLOPES ARE 3:1 OR GREATER AND REQUIRE STABILIZATION PER TABLE AT LEFT

EROSION CONTROL LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- DRAINAGE AREA
- DRAINAGE AREA LABEL
- DIRECTION OF OVERLAND FLOW
- SPOT ELEVATION
- RIP RAP APRON
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- EROSION CONTROL MATTING (NAG S75)
- LIMITS OF DISTURBANCE
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- TEMP TREE PROTECTION FENCE
- TEMP SILT / TREE PROTECTION FENCE
- TEMP CONSTRUCTION FENCE
- SILT FENCE OUTLET
- CHECK DAM
- SEDIMENTATION CHAMBER BERM
- SLOPE DRAIN WITH RIP-RAP APRON
- TEMPORARY RISER SKIMMER SEDIMENT BASIN
- STANDARD PIPE INLET PROTECTION
- STANDARD GRAVEL INLET PROTECTION
- EXCAVATED INLET SEDIMENT TRAP
- WASHOUT STATION
- FILTER BAG



SCALE: 1" = 50'



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11/21/2023
10/02/2023
08/01/2023
06/01/2023

PER TOWN OF ROLESVILLE COMMENT
PER TOWN OF ROLESVILLE COMMENT
PER TOWN OF ROLESVILLE COMMENT
INITIAL SUBMITTAL

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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LENNAR
CORPORAION

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PARKER RIDGE

82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED PHASE 3
EROSION CONTROL
PLAN (1 OF 6)

NOT FOR
CONSTRUCTION

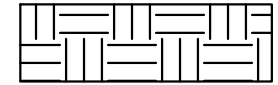
FILE NUMBER:
8430-03

DATE: 11/21/2023

C5-15

SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	
	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (H2O) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	7 days for slopes greater than 50' in length and with slopes steeper than 4:1 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones 10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones 10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.



HATCHED SLOPES ARE 3:1 OR GREATER AND REQUIRE STABILIZATION PER TABLE ABOVE

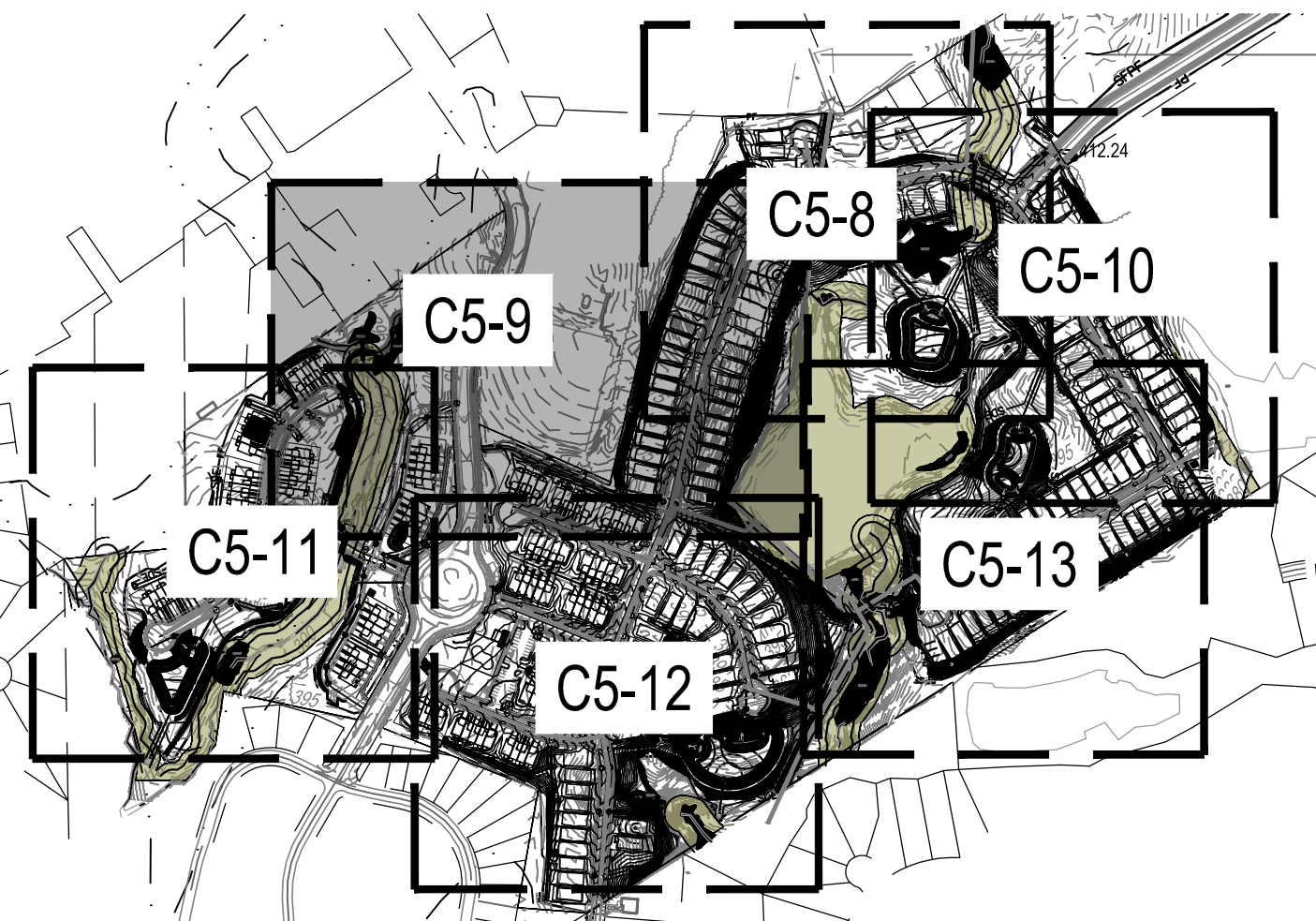
REDFORD PLAZA, LLC
DB 16331 PG 976
BM 1993 PG 1381
PIN# 1758895219
ZONE: R&PUD
USE: NBHD S/C

REDFORD PLAZA, LLC
DB 16331 PG 976
BM 2006 PG 1022
PIN# 1758882842
ZONE: R&PUD
USE: BUSINESS

EROSION CONTROL LEGEND

	PROPERTY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	DRAINAGE AREA
	DRAINAGE AREA LABEL
	DIRECTION OF OVERLAND FLOW
	SPOT ELEVATION
	RIP RAP APRON
	CONSTRUCTION ENTRANCE / EXIT
	EROSION CONTROL MATTING (NAG S75)
	LIMITS OF DISTURBANCE

	TEMPORARY JUTE NETTING BAFFLES (700 G/M2 COIR FABRIC OR HEAVIER)
	TEMPORARY DIVERSION DITCH OR BERM
	TEMPORARY SILT FENCE
	TEMP TREE PROTECTION FENCE
	TEMP SILT / TREE PROTECTION FENCE
	TEMP CONSTRUCTION FENCE
	SILT FENCE OUTLET
	CHECK DAM
	SEDIMENTATION CHAMBER BERM
	SLOPE DRAIN WITH RIP-RAP APRON
	TEMPORARY RISER SKIMMER SEDIMENT BASIN
	STANDARD PIPE INLET PROTECTION
	STANDARD GRAVEL INLET PROTECTION
	EXCAVATED INLET SEDIMENT TRAP
	WASHOUT STATION
	FILTER BAG



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Call before you dig.

	11/21/2023	PER TOWN OF ROLESVILLE COMMENT
	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
	06/01/2023	INITIAL SUBMITTAL
DESIGNED BY:	DF/CD	
DRAWN BY:	DF/JWM	
REVIEWED BY:	DF	
LENNAR CORPORAION 1100 PERIMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560		
PARKER RIDGE 82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571		
ENLARGED PHASE 3 EROSION CONTROL PLAN (2 OF 6)		
NOT FOR CONSTRUCTION		
FILE NUMBER: 8430-03		
DATE: 11/21/2023		
C5-16		



SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	
	Stability within this many calendar days after ceasing land disturbance	Timeframe variations
a) Perimeter ditches, swales, ditches, and perimeter slopes	7	None
b) High Quality Water (HGW) Zones	7	None
c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
d) Slopes 3:1 to 6:1	14	7 days for slopes greater than 50' in length and with slopes steeper than 4:1 10 days for perimeter ditches, swales, ditches, perimeter slopes and HGW Zones 14 days for Falls Lake Watershed
e) Areas with slopes flatter than 4:1	14	7 days for perimeter ditches, swales, ditches, perimeter slopes and HGW Zones 10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

HATCHED SLOPES ARE 3:1 OR GREATER AND REQUIRE STABILIZATION PER TABLE AT LEFT



DESIGNED BY:			
DRAWN BY:			
REVIEWED BY:	DF		
		11/21/2023	PER TOWN OF ROLESVILLE COMMENT
		10/02/2023	PER TOWN OF ROLESVILLE COMMENT
		08/01/2023	PER TOWN OF ROLESVILLE COMMENT
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ENLARGED PHASE 3
EROSION CONTROL
PLAN (3 OF 6)

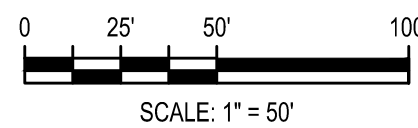
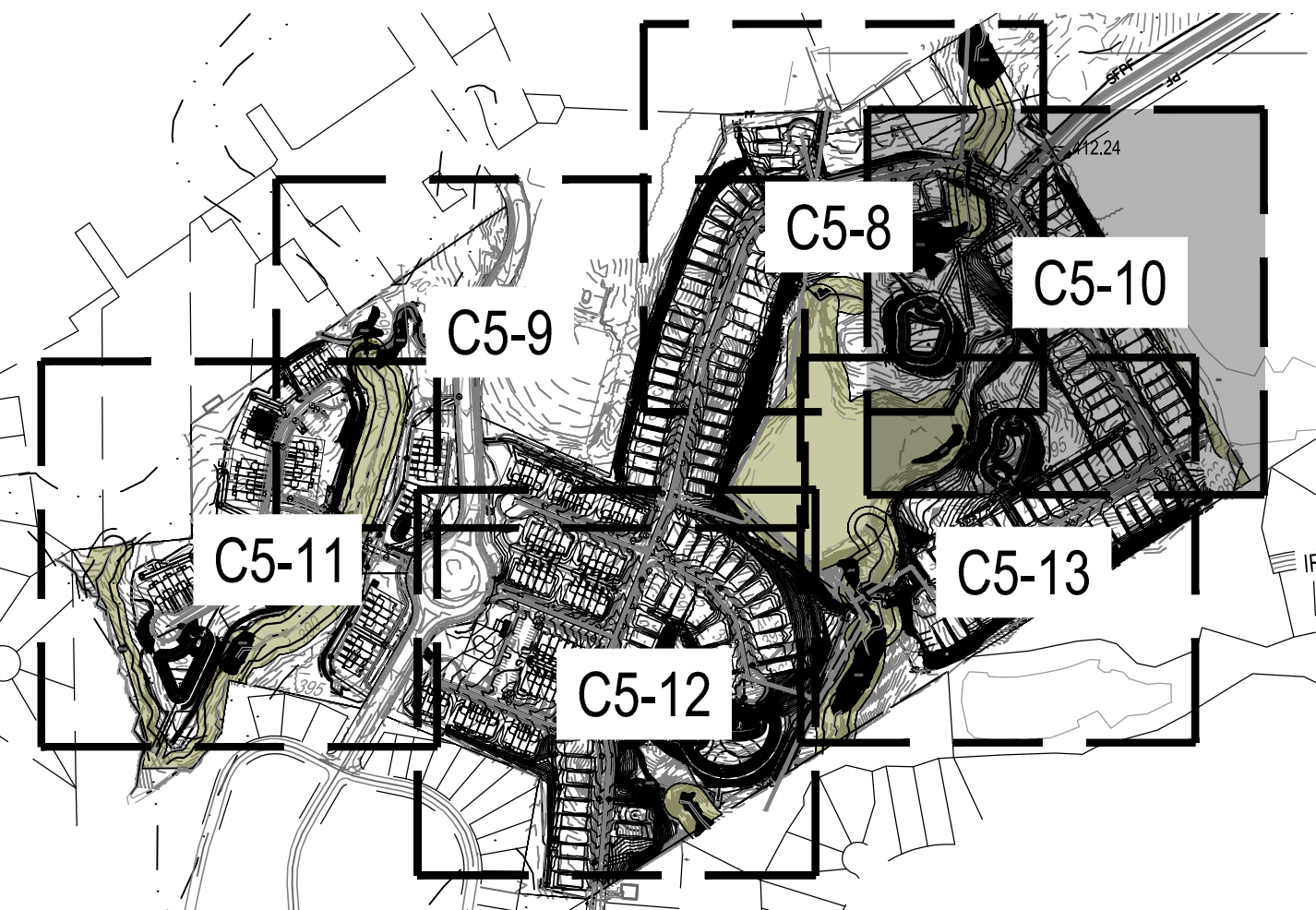


NOT FOR
CONSTRUCTION

FILE NUMBER:
8430-03

DATE: 11/21/2023

C5-17



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MAX VIII, LLC
36 PG 1235
3 PG 1030
758785571
GC-CZ
MINIWHSE

STORAGE MAX II, LLC
DB 11710 PG 2072
BM 2005 PG 2354
PIN# 1758787576
ZONE: GC-CZ
USE: MINIWHSE



SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	
	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQPW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed 7 days for slopes greater than 50' in length and with slopes steeper than 4:1
(d) Slopes 3:1 to 4:1	14	7 days for perimeter dikes, swales, ditches, perimeter slopes and HQPW Zones 10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	7 days for perimeter dikes, swales, ditches, perimeter slopes and HQPW Zones 10 days for Falls Lake Watershed unless there is zero slope

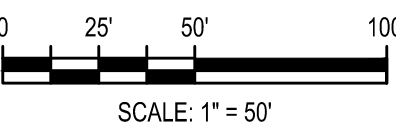
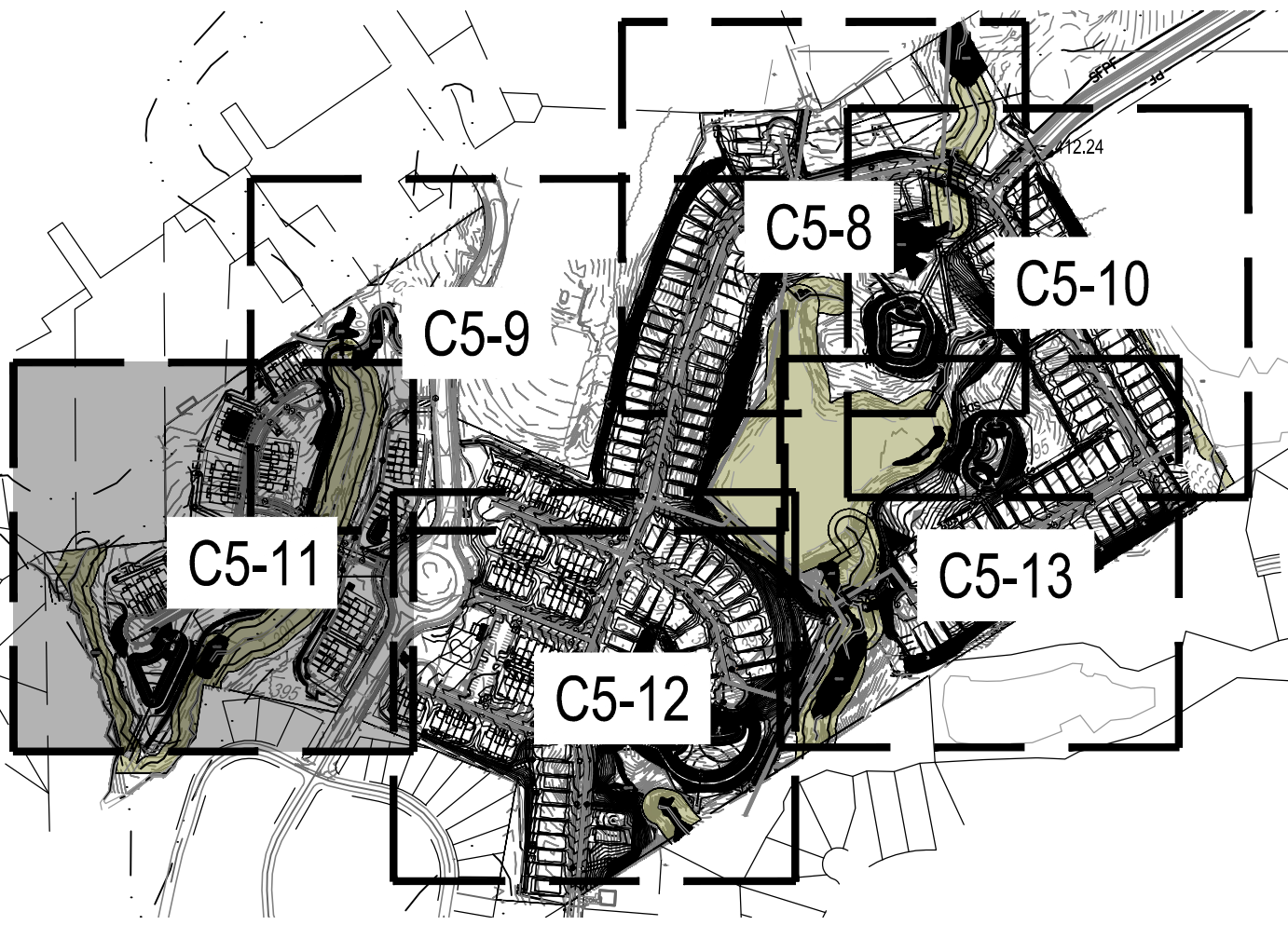
Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.



HATCHED SLOPES ARE 3:1 OR GREATER AND REQUIRE STABILIZATION PER TABLE AT LEFT

EROSION CONTROL LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- DRAINAGE AREA
- DRAINAGE AREA LABEL
- DIRECTION OF OVERLAND FLOW
- SPOT ELEVATION
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S75)
- LIMITS OF DISTURBANCE
- TEMPORARY JUTE NETTING BAFFLES (700 GM2 COIR FABRIC OR HEAVIER)
- TEMPORARY DIVERSION DITCH OR BERM
- TEMPORARY SILT FENCE
- TEMP TREE PROTECTION FENCE
- TEMP SILT / TREE PROTECTION FENCE
- TEMP CONSTRUCTION FENCE
- SILT FENCE OUTLET
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- STANDARD PIPE INLET PROTECTION
- STANDARD GRAVEL INLET PROTECTION
- EXCAVATED INLET SEDIMENT TRAP
- WASHOUT STATION
- FILTER BAG



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11/21/2023
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08/01/2023
06/01/2023

PER TOWN OF ROLESVILLE COMMENT
PER TOWN OF ROLESVILLE COMMENT
PER TOWN OF ROLESVILLE COMMENT
INITIAL SUBMITTAL

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

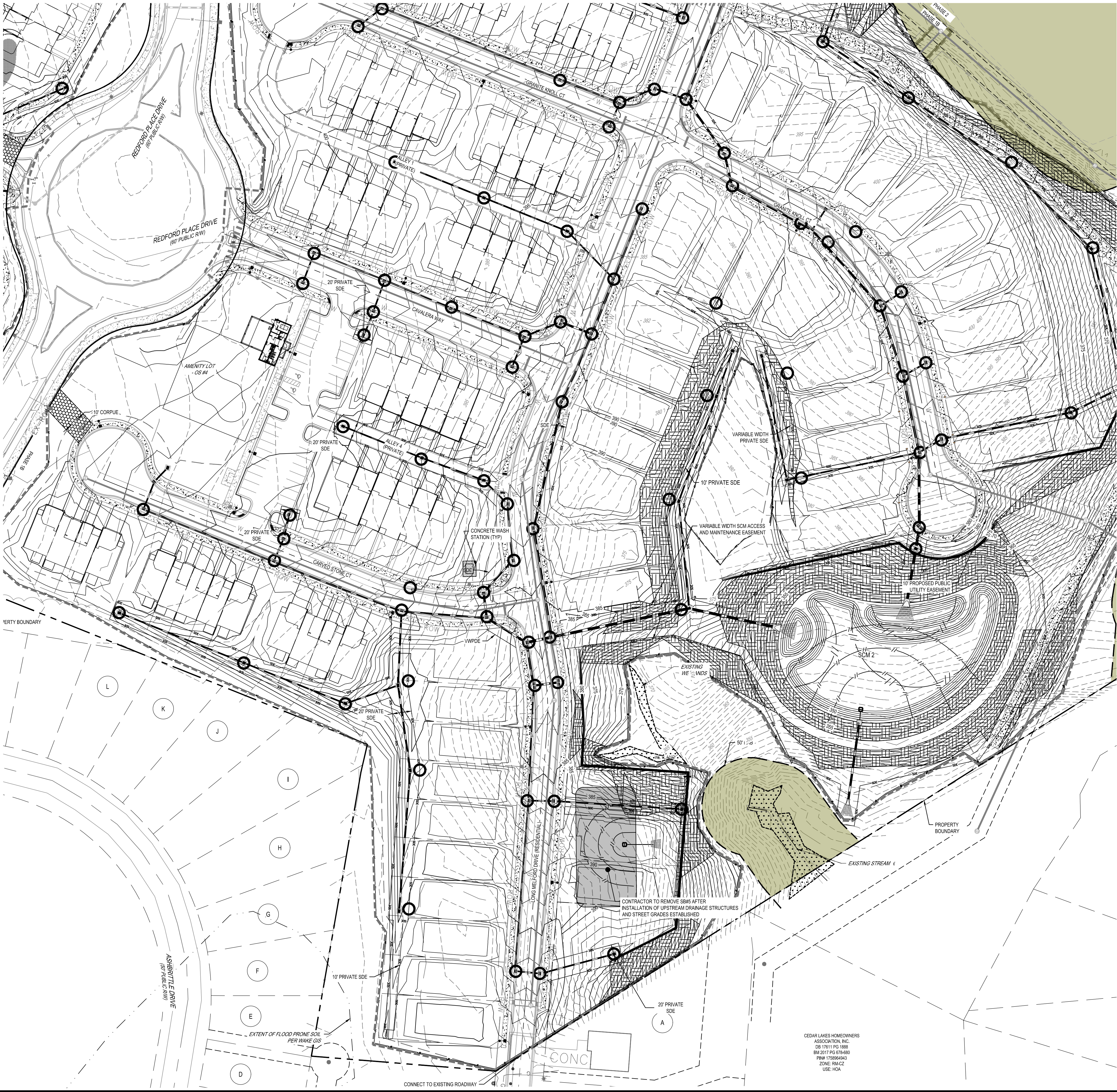
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ENLARGED PHASE 3
EROSION CONTROL
PLAN (4 OF 6)

PRELIMINARY
ENGINEER
FEDRA M. FERRER
12-01-23
NOT FOR
CONSTRUCTION
FILE NUMBER:
8430-03
DATE: 11/21/2023
C5-18

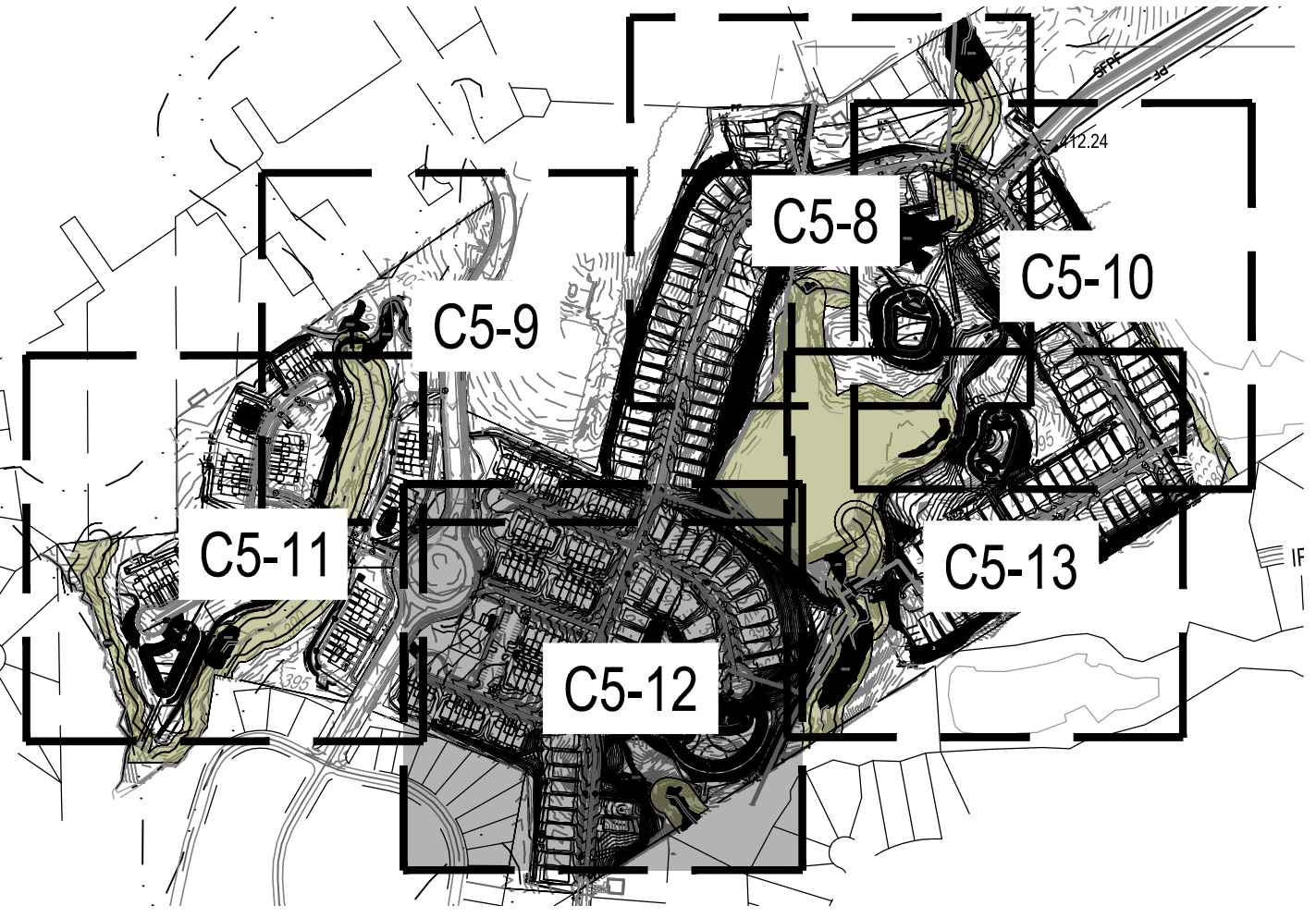


SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	
	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (H2W) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed 7 days for slopes greater than 50' in length and with slopes steeper than 4:1
(d) Slopes 3:1 to 4:1	14	7 days for perimeter dikes, swales, ditches, perimeter slopes and H2W Zones 10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	7 days for perimeter dikes, swales, ditches, perimeter slopes and H2W Zones 10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

EROSION CONTROL LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- DRAINAGE AREA
- DRAINAGE AREA LABEL
- DIRECTION OF OVERLAND FLOW
- SPOT ELEVATION
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S75)
- LIMITS OF DISTURBANCE
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- STANDARD GRAVEL INLET PROTECTION
- EXCAVATED INLET SEDIMENT TRAP
- WASHOUT STATION
- FILTER BAG



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11/21/2023 PER TOWN OF ROLESVILLE COMMENT

10/02/2023 PER TOWN OF ROLESVILLE COMMENT

08/01/2023 PER TOWN OF ROLESVILLE COMMENT

06/01/2023 INITIAL SUBMITTAL

DESIGNED BY: DFC/CD

DRAWN BY: DFC/JWM

REVIEWED BY: DFC

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ENLARGED PHASE 3

EROSION CONTROL

PLAN (5 OF 6)

NOT FOR CONSTRUCTION

FILE NUMBER: 8430-03

DATE: 11/21/2023

C5-19